

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082823\
 Data File : BF134974.D
 Acq On : 28 Aug 2023 18:09
 Operator : CG\JU
 Sample : 04110-14DL 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-21(3-4)DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/29/2023
 Supervised By :mohammad ahmed 08/29/2023

Quant Time: Aug 29 03:51:08 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 28 02:45:19 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.793	152	108210	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	425854	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	202228	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	320204	20.000	ng	0.00
76) Chrysene-d12	13.980	240	228101	20.000	ng	0.00
86) Perylene-d12	15.457	264	195170	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	245172	36.130	ng	0.00
7) Phenol-d6	6.422	99	311898	35.970	ng	-0.02
23) Nitrobenzene-d5	7.351	82	193522	25.041	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	71760	30.129	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	375333	28.692	ng	-0.01
79) Terphenyl-d14	12.916	244	312100	18.819	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.093	128	135740	6.384	ng	98
37) 2-Methylnaphthalene	8.781	142	45766	3.227	ng	99
38) 1-Methylnaphthalene	8.881	142	31163	2.350	ng	100
49) Acenaphthylene	9.687	152	52717	2.871	ng	98
52) Acenaphthene	9.857	154	33765	2.919	ng	99
55) Dibenzofuran	10.034	168	42416	2.519	ng	95
58) Fluorene	10.375	166	36850	2.885	ng	96
71) Phenanthrene	11.345	178	396469	23.628	ng	99
72) Anthracene	11.398	178	106425	6.190	ng	99
73) Carbazole	11.551	167	59071	4.170	ng	97
75) Fluoranthene	12.545	202	692034	43.528	ng	99
78) Pyrene	12.775	202	628606	25.992	ng	100
81) Benzo(a)anthracene	13.969	228	350271	22.507	ng	# 92
83) Chrysene	14.004	228	343950	22.400	ng	96
87) Indeno(1,2,3-cd)pyrene	16.945	276	120813	8.660	ng	98
88) Benzo(b)fluoranthene	15.027	252	391783m	35.580	ng	
89) Benzo(k)fluoranthene	15.051	252	104931m	9.704	ng	
90) Benzo(a)pyrene	15.392	252	223923	20.371	ng	95
91) Dibenzo(a,h)anthracene	16.957	278	31923	2.828	ng	# 91
92) Benzo(g,h,i)perylene	17.398	276	109742	9.497	ng	97

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

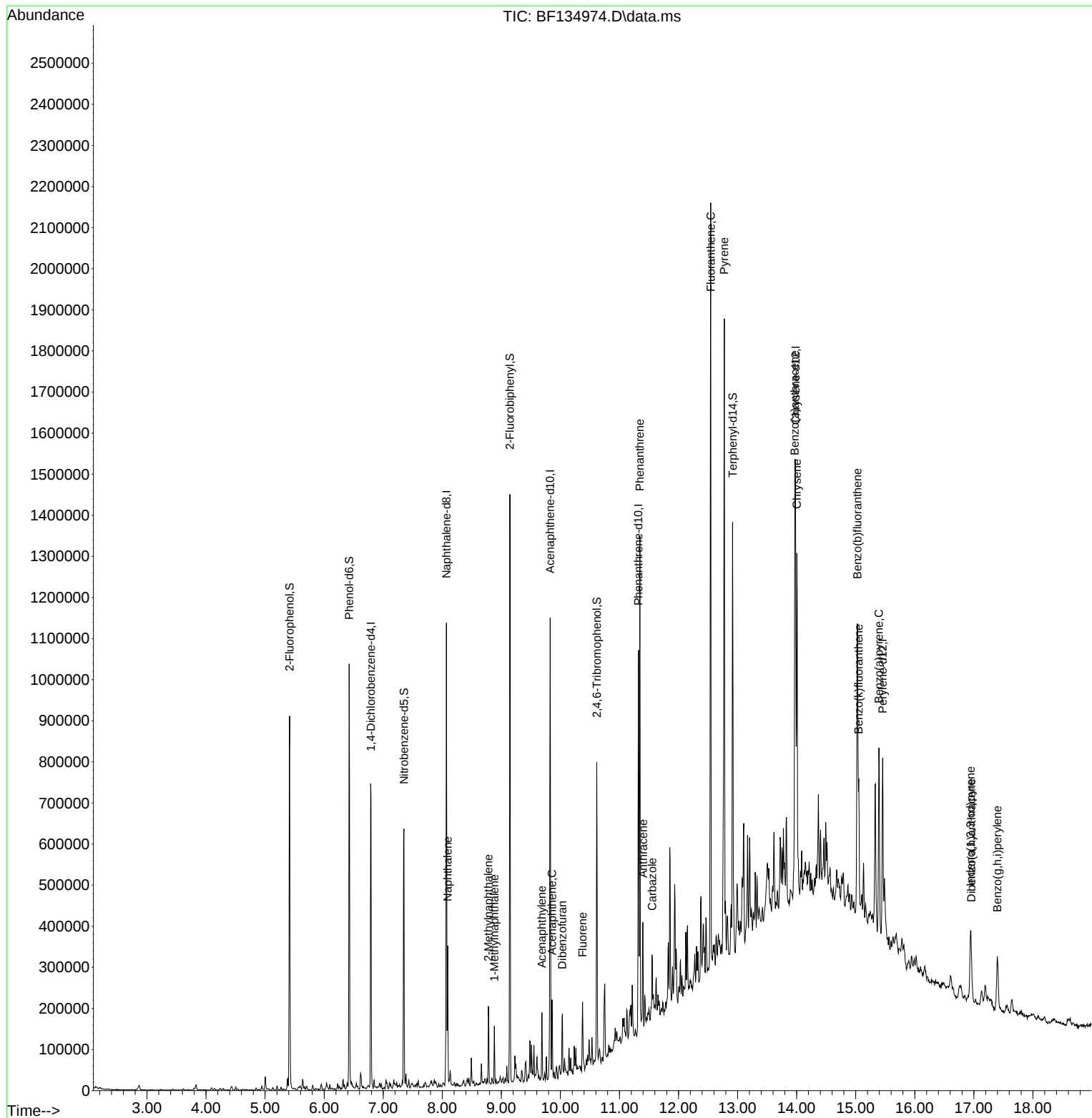
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082823\
Data File : BF134974.D
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ALS Vial : 19 Sample Multiplier: 1

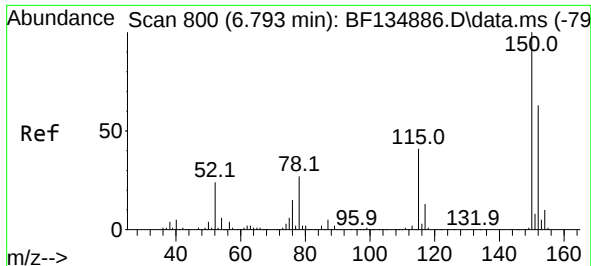
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL

Quant Time: Aug 29 03:51:08 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 28 02:45:19 2023
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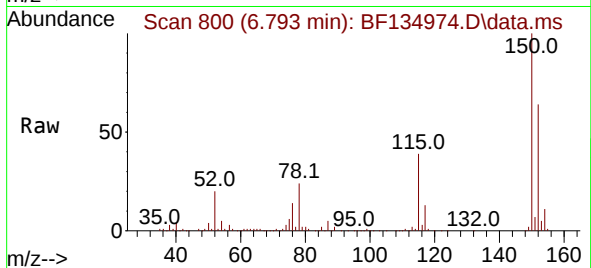
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 800
Delta R.T. -0.000 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)DL

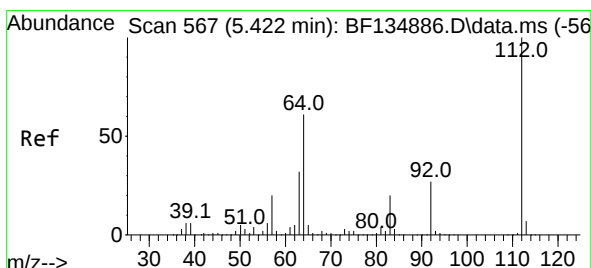
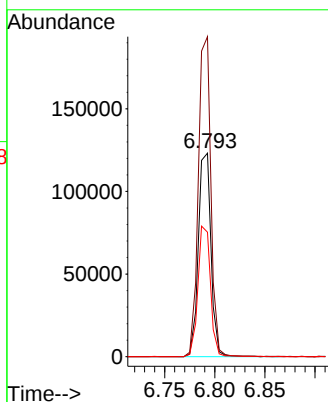
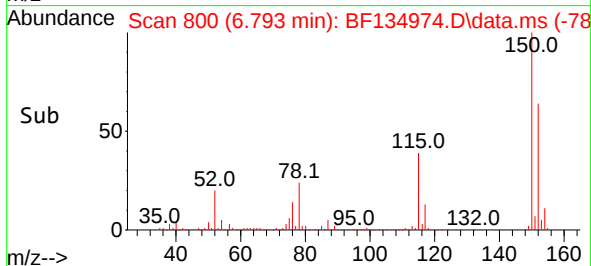


Tgt Ion:152 Resp: 108210
Ion Ratio Lower Upper
152 100
150 157.3 126.1 189.1
115 61.2 51.1 76.7

Manual Integrations

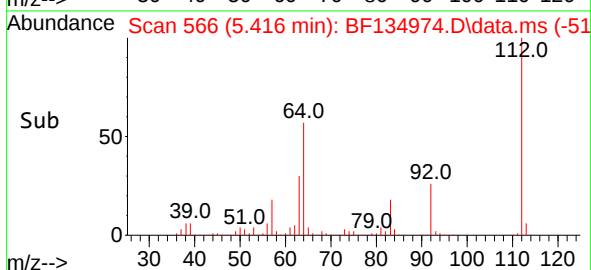
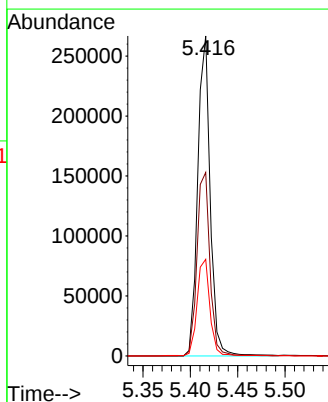
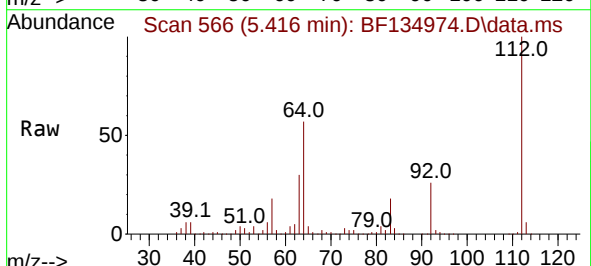
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Supervised By :mohammad ahmed 08/29/2023



#5
2-Fluorophenol
Concen: 36.130 ng
RT: 5.416 min Scan# 566
Delta R.T. -0.006 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

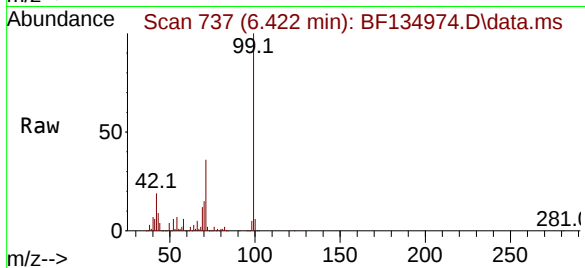
Tgt Ion:112 Resp: 245172
Ion Ratio Lower Upper
112 100
64 57.4 48.6 73.0
63 30.2 25.7 38.5





#7
Phenol-d6
Concen: 35.970 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

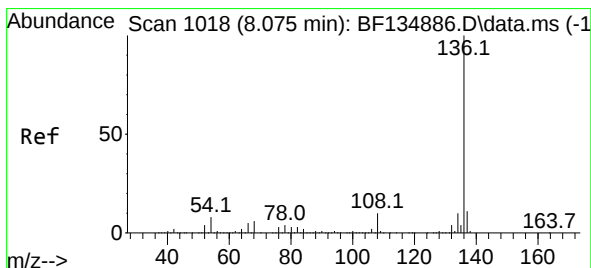
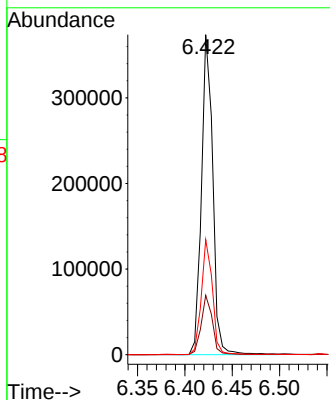
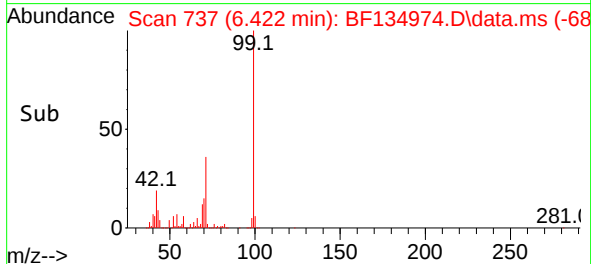
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL



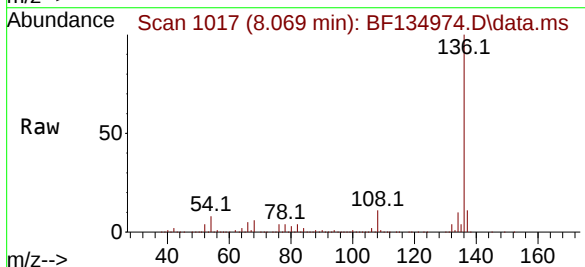
Tgt Ion: 99 Resp: 311898
Ion Ratio Lower Upper
99 100
42 18.6 14.6 22.0
71 36.0 27.6 41.4

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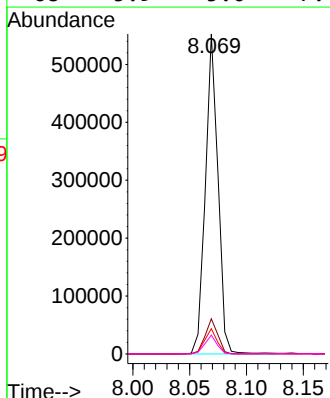
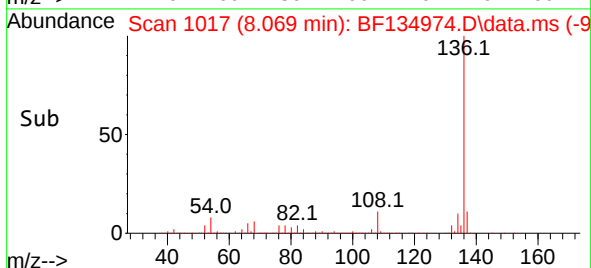
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023

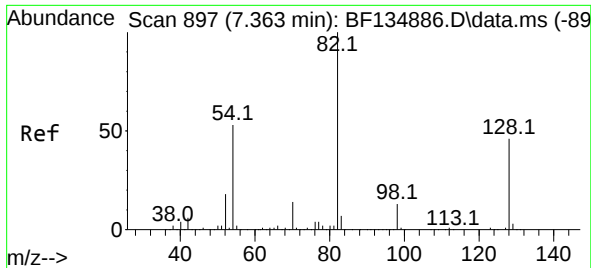


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09



Tgt Ion:136 Resp: 425854
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 7.9 6.6 9.8
68 5.9 5.0 7.4





#23

Nitrobenzene-d5

Concen: 25.041 ng

RT: 7.351 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)DL

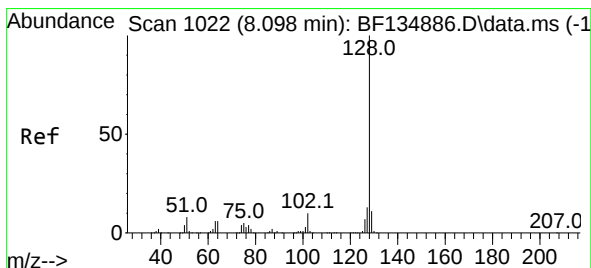
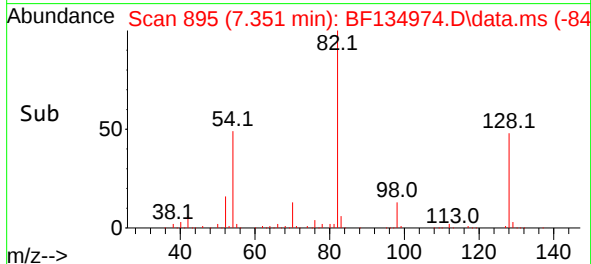
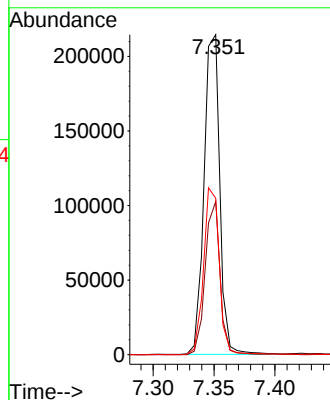
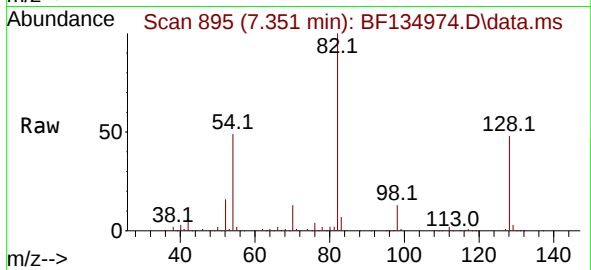
Tgt Ion: 82 Resp: 19352

Ion	Ratio	Lower	Upper
82	100		
128	47.8	36.6	54.8
54	48.9	42.6	63.8

Manual Integrations

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Supervised By :mohammad ahmed 08/29/2023



#31

Naphthalene

Concen: 6.384 ng

RT: 8.093 min Scan# 1021

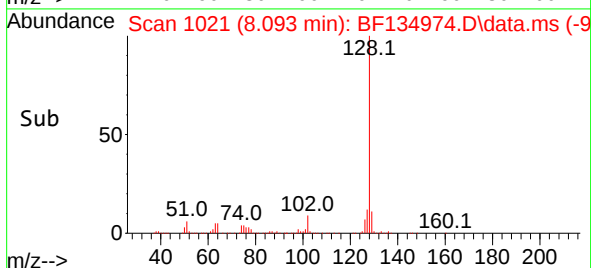
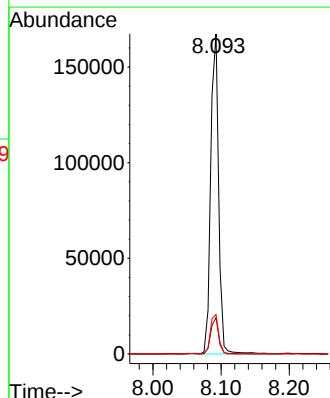
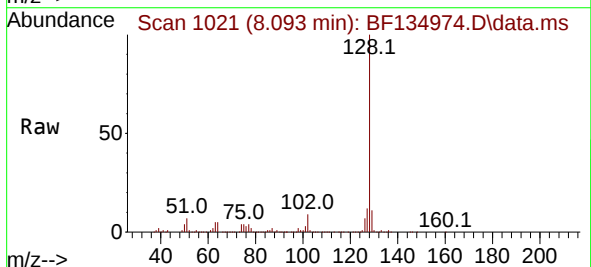
Delta R.T. -0.006 min

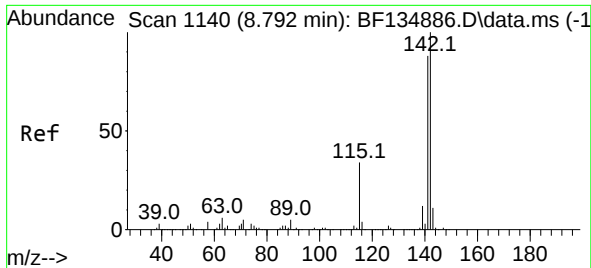
Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Tgt Ion:128 Resp: 135740

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.4
127	12.3	10.6	16.0





#37

2-Methylnaphthalene

Concen: 3.227 ng

RT: 8.781 min Scan# 1138

Delta R.T. -0.012 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)DL

Tgt Ion:142 Resp: 45760

Ion Ratio Lower Upper

142 100

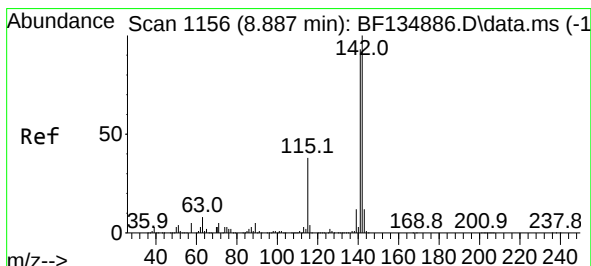
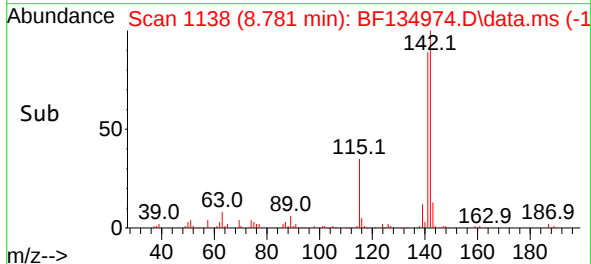
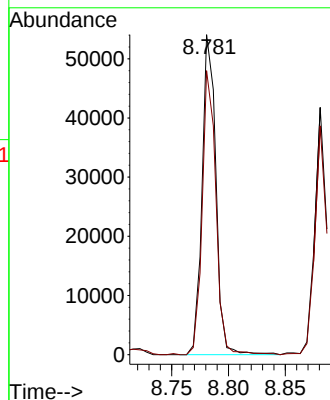
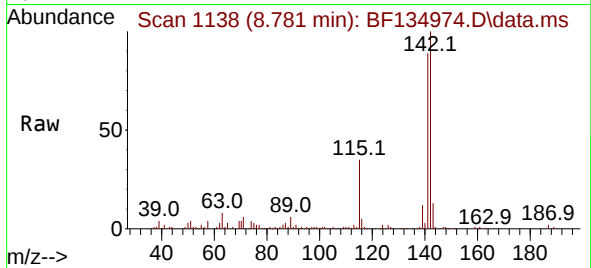
141 88.8 70.2 105.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/29/2023

Supervised By :mohammad ahmed 08/29/2023



#38

1-Methylnaphthalene

Concen: 2.350 ng

RT: 8.881 min Scan# 1155

Delta R.T. -0.006 min

Lab File: BF134974.D

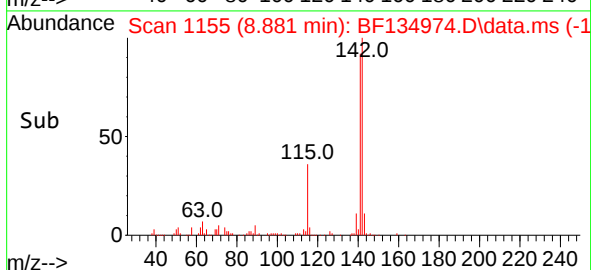
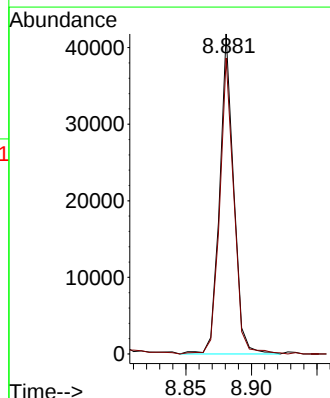
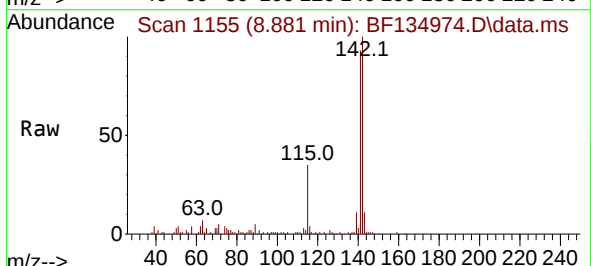
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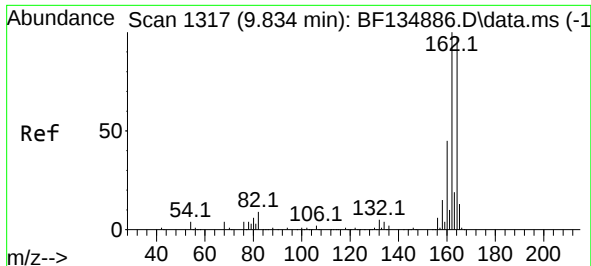
Tgt Ion:142 Resp: 31163

Ion Ratio Lower Upper

142 100

141 92.5 74.1 111.1





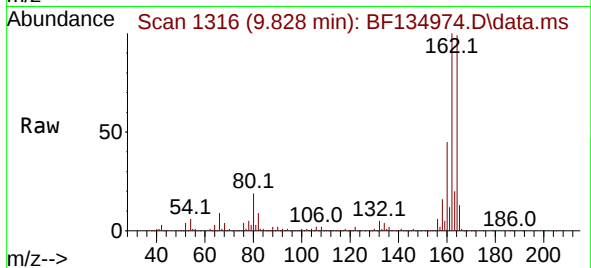
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)DL

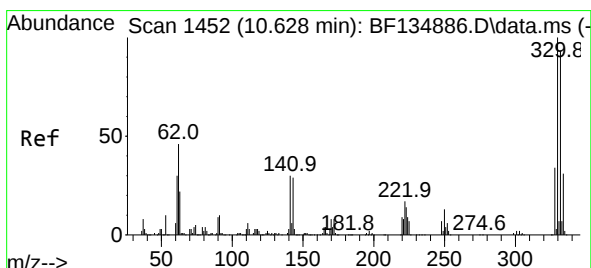
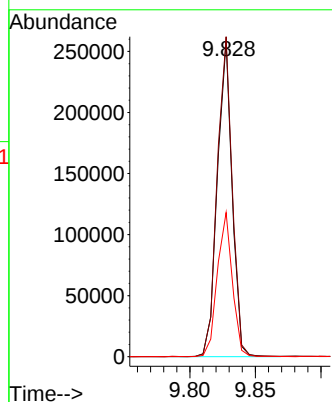
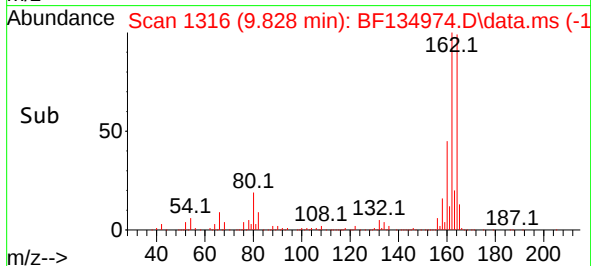


Tgt Ion:164 Resp: 202228
Ion Ratio Lower Upper
164 100
162 101.4 82.6 123.8
160 45.7 37.0 55.4

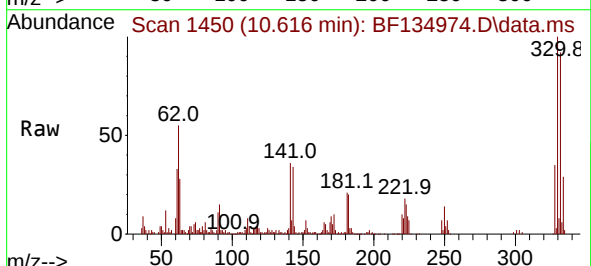
Manual Integrations

APPROVED

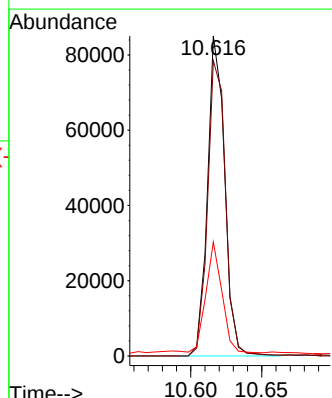
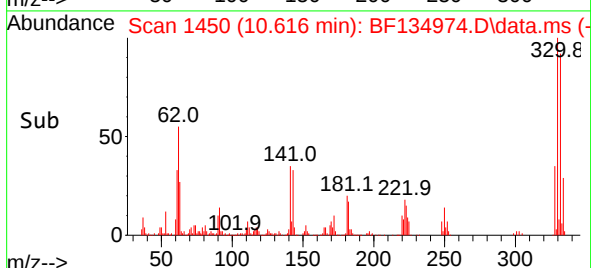
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023

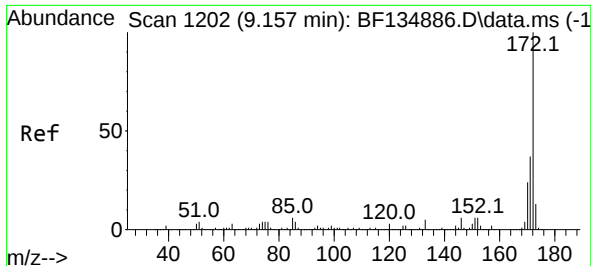


#42
2,4,6-Tribromophenol
Concen: 30.129 ng
RT: 10.616 min Scan# 1450
Delta R.T. -0.012 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09



Tgt Ion:330 Resp: 71760
Ion Ratio Lower Upper
330 100
332 96.1 76.3 114.5
141 35.9 23.4 35.2#





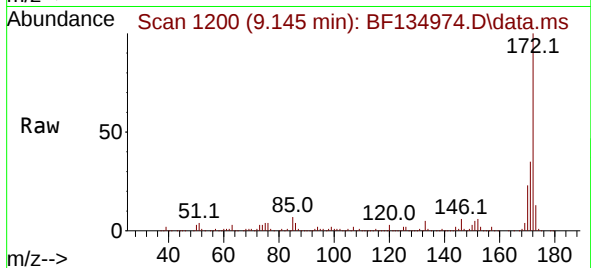
#45
2-Fluorobiphenyl
Concen: 28.692 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)DL

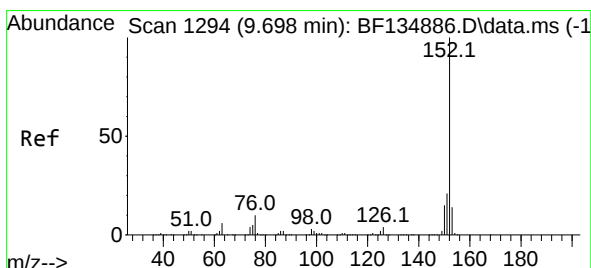
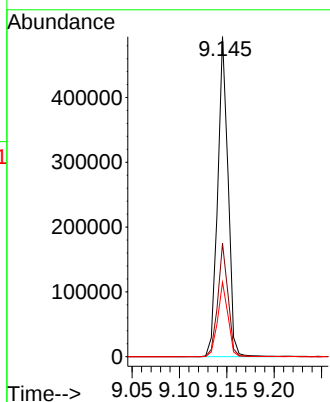
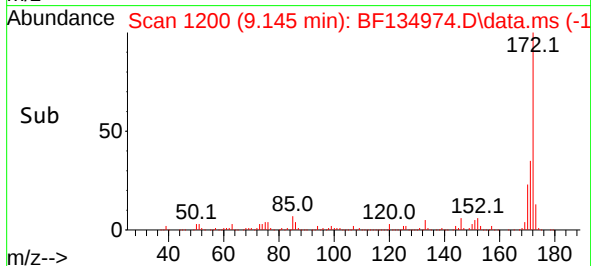


Tgt Ion:172 Resp: 37533
Ion Ratio Lower Upper
172 100
171 35.4 29.4 44.0
170 23.3 19.6 29.4

Manual Integrations

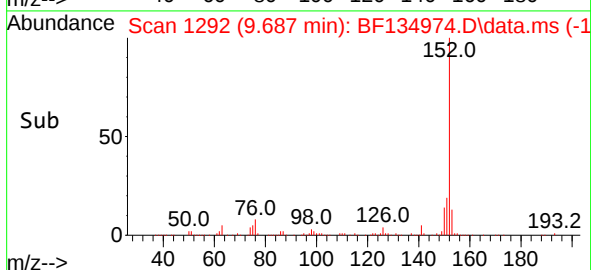
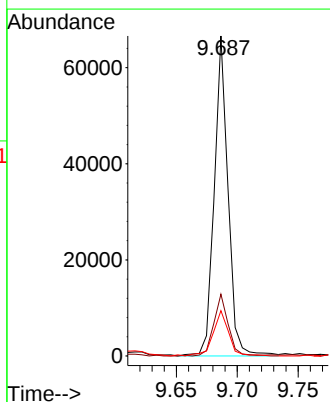
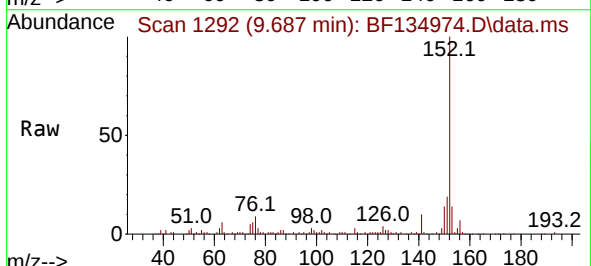
APPROVED

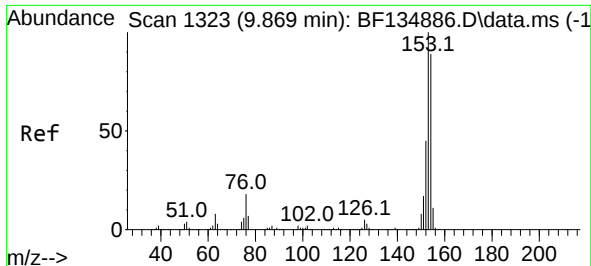
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#49
Acenaphthylene
Concen: 2.871 ng
RT: 9.687 min Scan# 1292
Delta R.T. -0.011 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion:152 Resp: 52717
Ion Ratio Lower Upper
152 100
151 19.3 16.5 24.7
153 14.2 11.3 16.9





#52
Acenaphthene
Concen: 2.919 ng
RT: 9.857 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

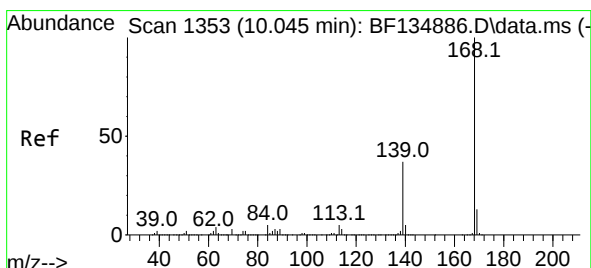
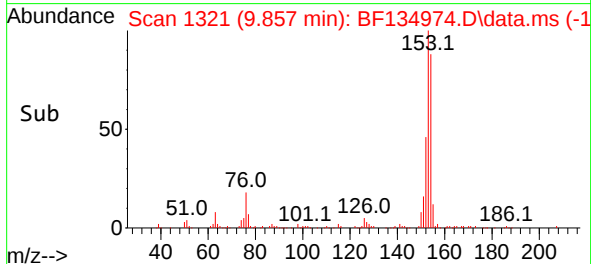
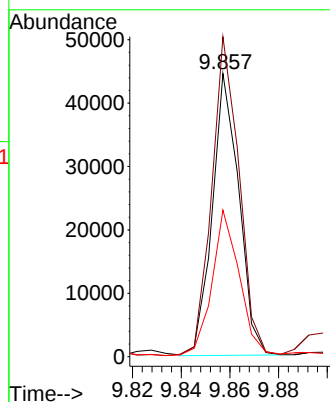
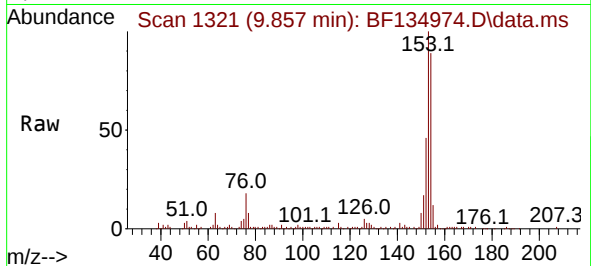
TP-21(3-4)DL

Tgt Ion:154 Resp: 3376
Ion Ratio Lower Upper
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153 113.0 89.6 134.4
152 51.8 40.5 60.7

Manual Integrations

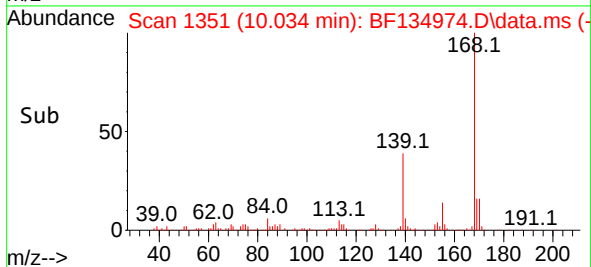
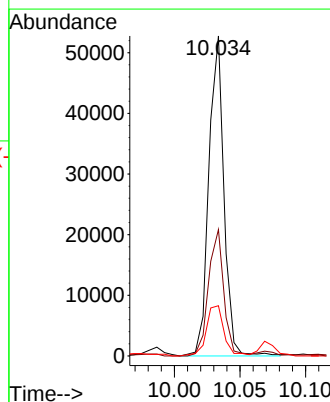
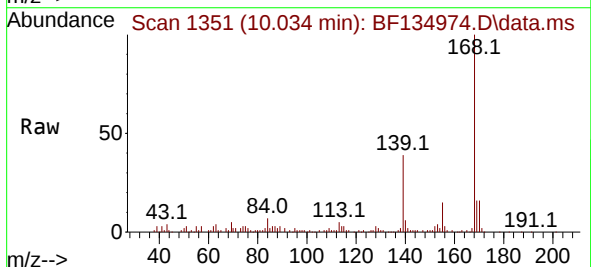
APPROVED

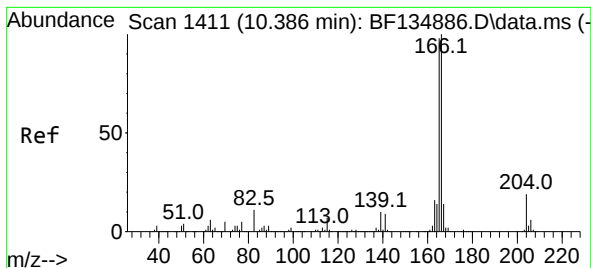
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#55
Dibenzofuran
Concen: 2.519 ng
RT: 10.034 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion:168 Resp: 42416
Ion Ratio Lower Upper
168 100
139 39.5 29.5 44.3
169 15.7 10.7 16.1





#58

Fluorene

Concen: 2.885 ng

RT: 10.375 min Scan# 1411

Delta R.T. -0.011 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)DL

Tgt Ion:166 Resp: 36850

Ion Ratio Lower Upper

166 100

165 94.3 78.5 117.7

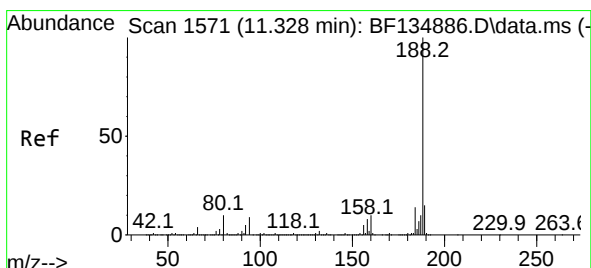
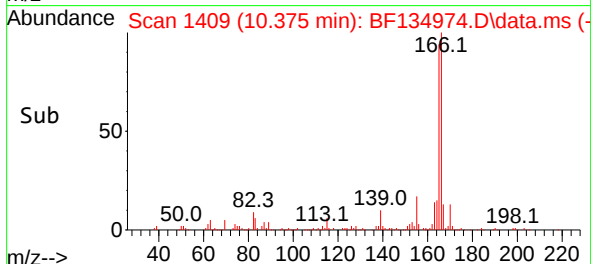
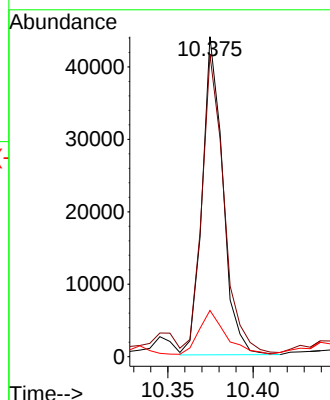
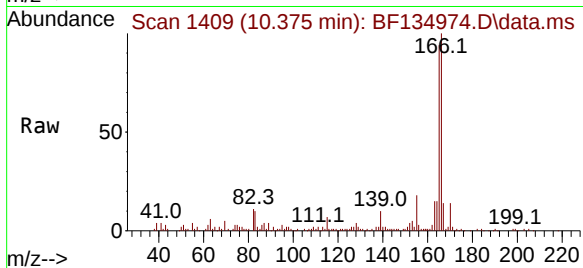
167 14.4 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/29/2023

Supervised By :mohammad ahmed 08/29/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.322 min Scan# 1570

Delta R.T. -0.006 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

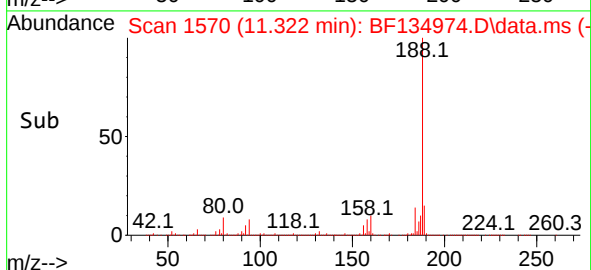
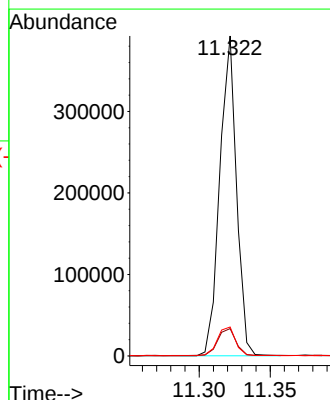
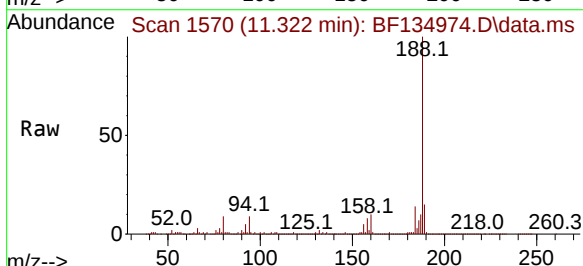
Tgt Ion:188 Resp: 320204

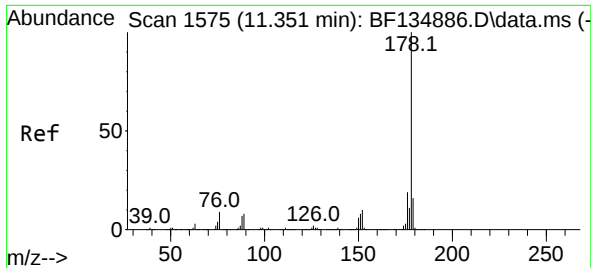
Ion Ratio Lower Upper

188 100

94 8.6 7.5 11.3

80 9.0 7.8 11.6





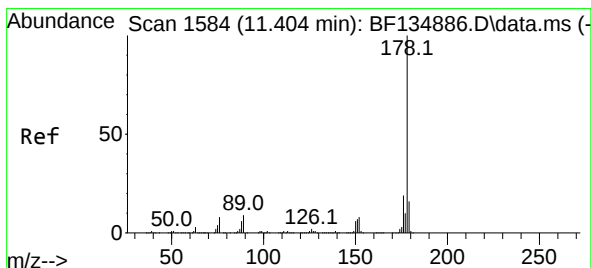
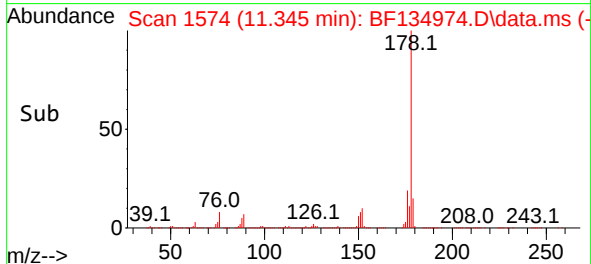
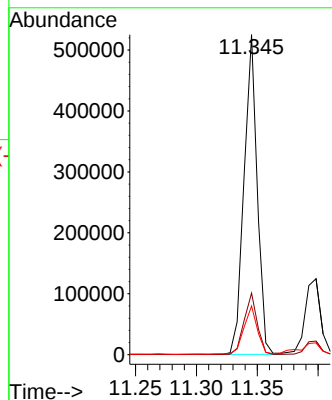
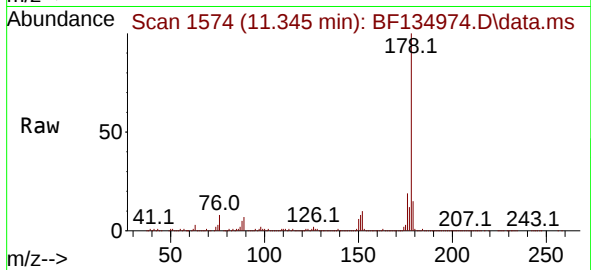
#71
Phenanthrene
Concen: 23.628 ng
RT: 11.345 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL

Tgt Ion:178 Resp: 396469
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.2 12.6 19.0

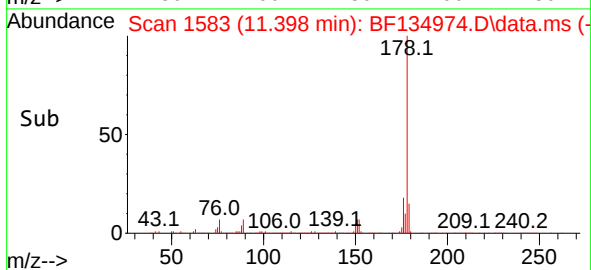
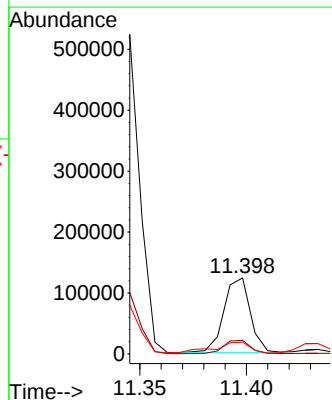
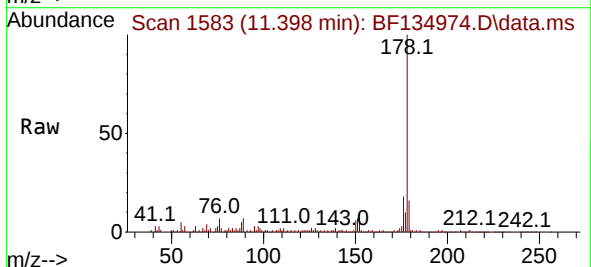
Manual Integrations
APPROVED

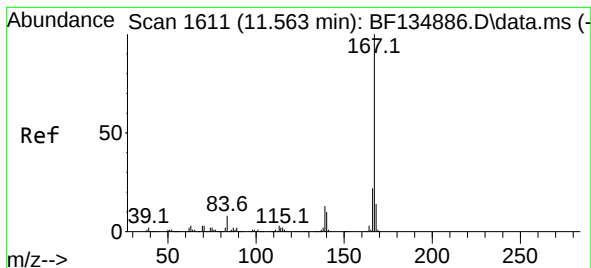
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#72
Anthracene
Concen: 6.190 ng
RT: 11.398 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion:178 Resp: 106425
Ion Ratio Lower Upper
178 100
176 18.0 15.0 22.6
179 15.5 12.5 18.7





#73

Carbazole

Concen: 4.170 ng

RT: 11.551 min Scan# 1609

Delta R.T. -0.012 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

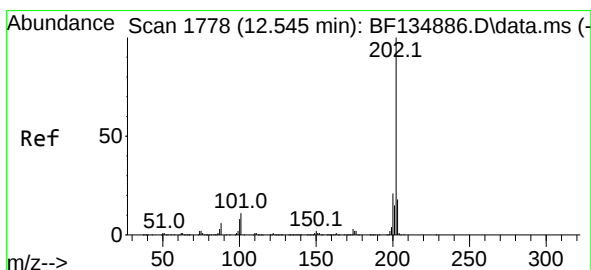
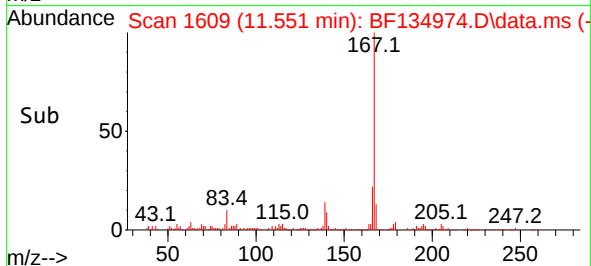
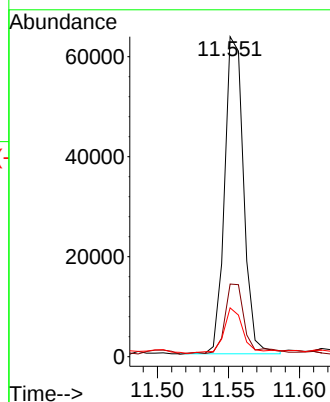
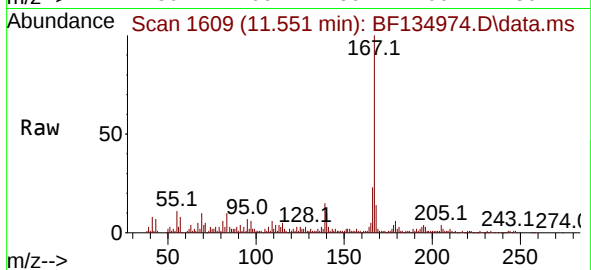
TP-21(3-4)DL

Tgt Ion:167	Resp: 5907
Ion Ratio	Lower Upper
167 100	
166 22.7	17.4 26.2
139 15.3	10.4 15.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#75

Fluoranthene

Concen: 43.528 ng

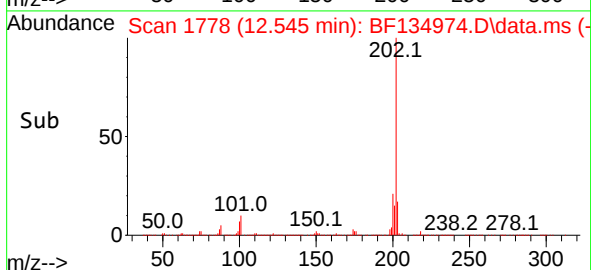
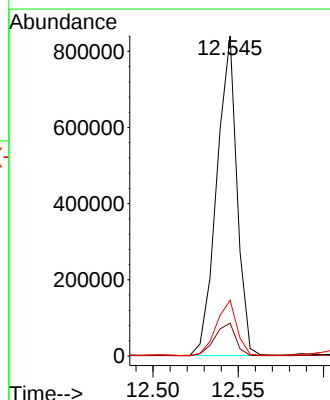
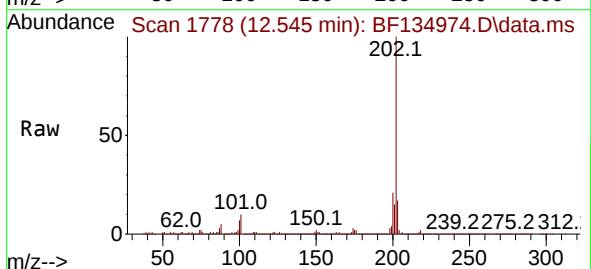
RT: 12.545 min Scan# 1778

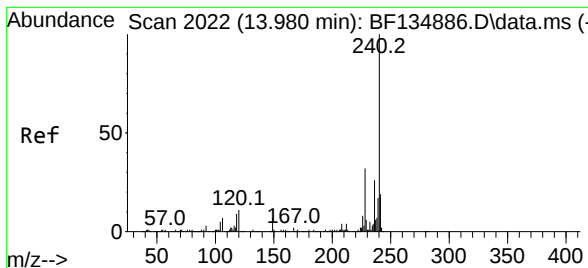
Delta R.T. 0.000 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Tgt Ion:202	Resp: 692034
Ion Ratio	Lower Upper
202 100	
101 10.3	0.0 30.5
203 17.4	0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

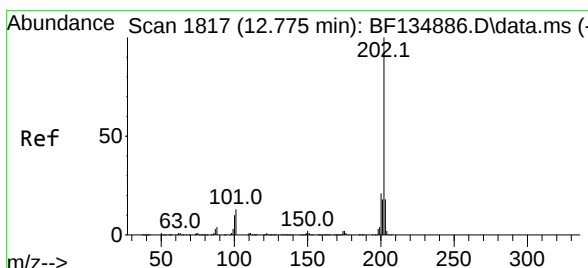
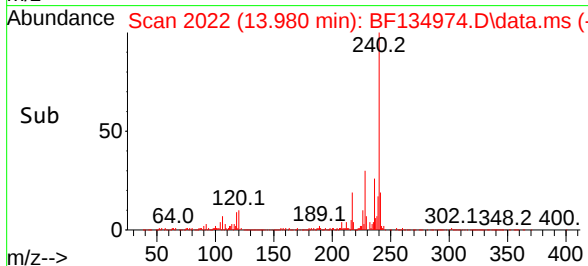
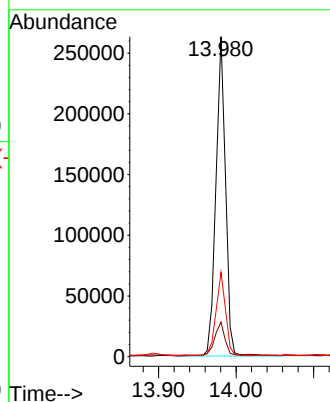
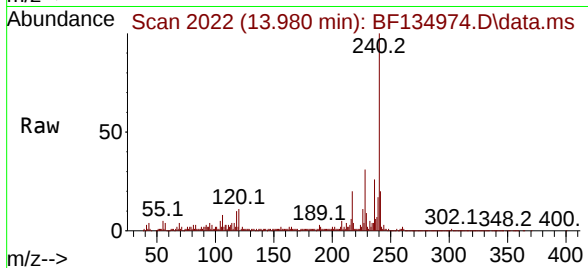
TP-21(3-4)DL

Tgt Ion:240 Resp: 22810
Ion Ratio Lower Upper
240 100
120 10.8 8.6 12.8
236 26.4 20.6 31.0

Manual Integrations

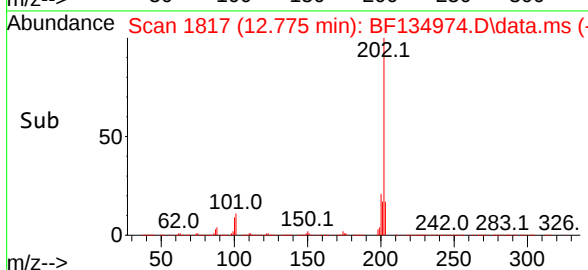
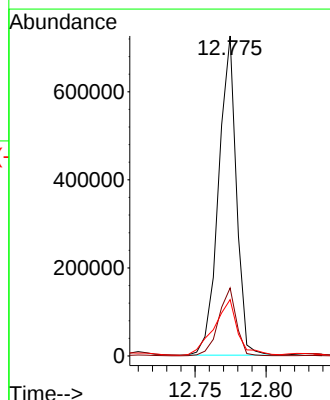
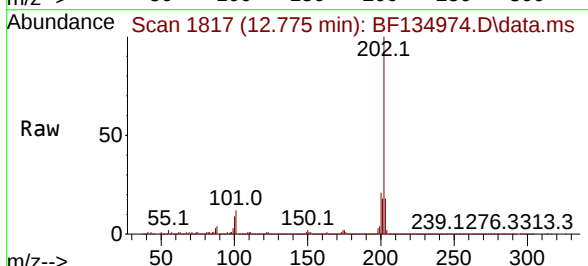
APPROVED

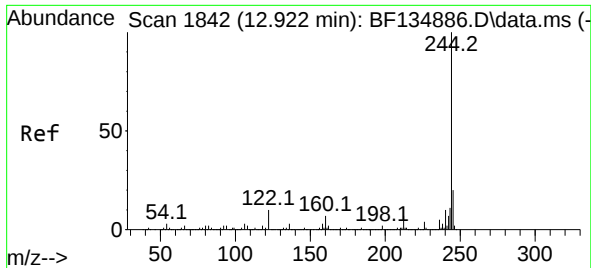
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#78
Pyrene
Concen: 25.992 ng
RT: 12.775 min Scan# 1817
Delta R.T. 0.000 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

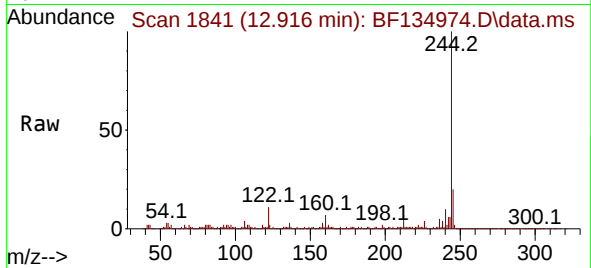
Tgt Ion:202 Resp: 628606
Ion Ratio Lower Upper
202 100
200 21.3 17.1 25.7
203 17.6 14.2 21.2





#79
 Terphenyl-d14
 Concen: 18.819 ng
 RT: 12.916 min Scan# 1842
 Delta R.T. -0.006 min
 Lab File: BF134974.D
 Acq: 28 Aug 2023 18:09

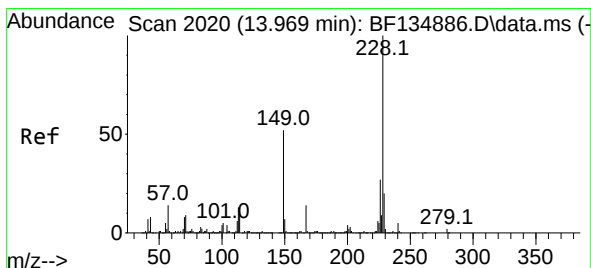
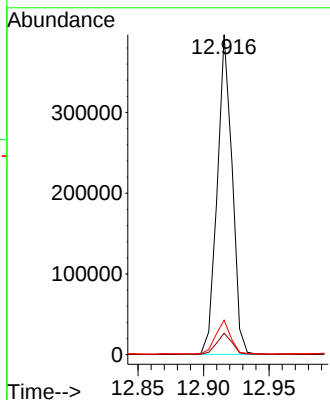
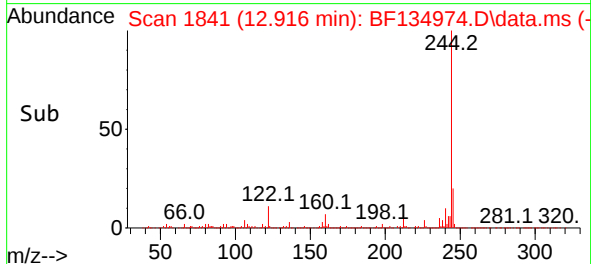
Instrument :
 BNA_F
 ClientSampleId :
 TP-21(3-4)DL



Tgt Ion:244 Resp: 312100
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.0
 122 10.8 8.2 12.4

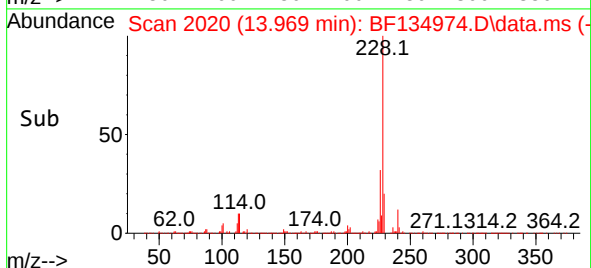
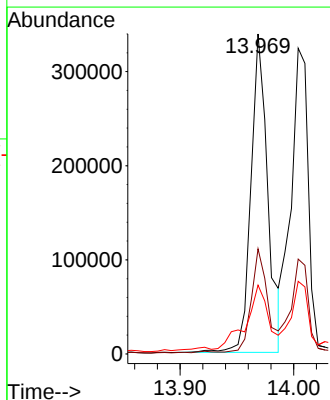
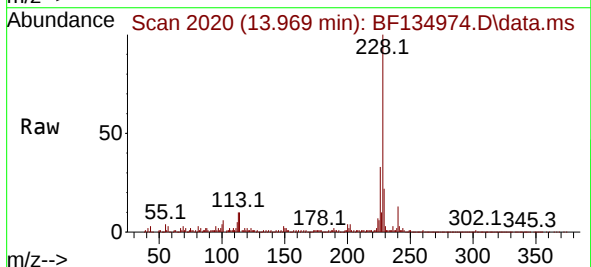
Manual Integrations
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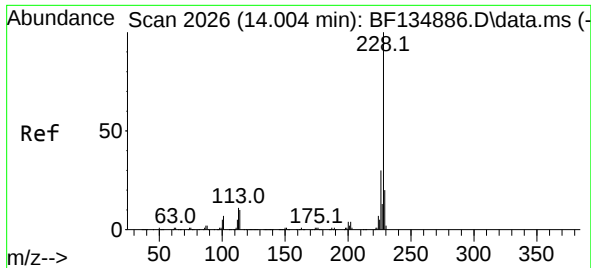
Reviewed By :Yogesh Patel 08/29/2023
 Supervised By :mohammad ahmed 08/29/2023



#81
 Benzo(a)anthracene
 Concen: 22.507 ng
 RT: 13.969 min Scan# 2020
 Delta R.T. 0.000 min
 Lab File: BF134974.D
 Acq: 28 Aug 2023 18:09

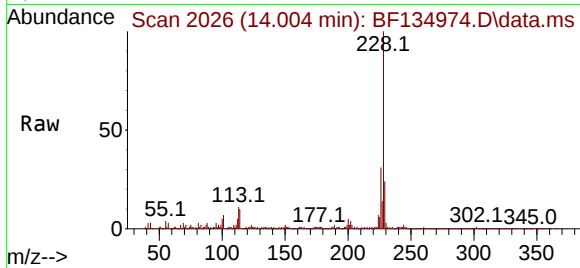
Tgt Ion:228 Resp: 350271
 Ion Ratio Lower Upper
 228 100
 226 32.9 21.8 32.6#
 229 21.5 15.6 23.4





#83
Chrysene
Concen: 22.400 ng
RT: 14.004 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

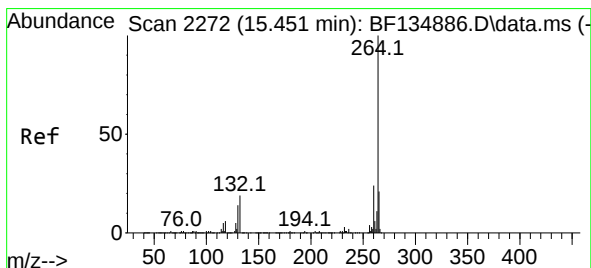
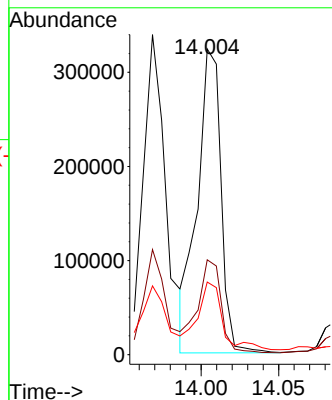
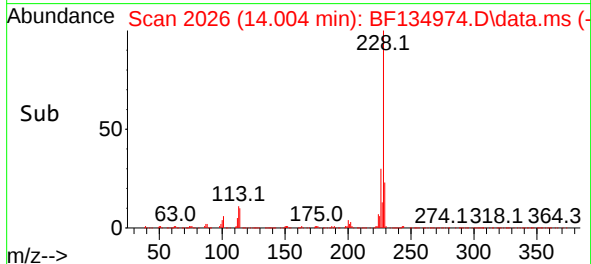
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL



Tgt Ion:228 Resp: 343950
Ion Ratio Lower Upper
228 100
226 31.1 24.2 36.2
229 23.8 16.0 24.0

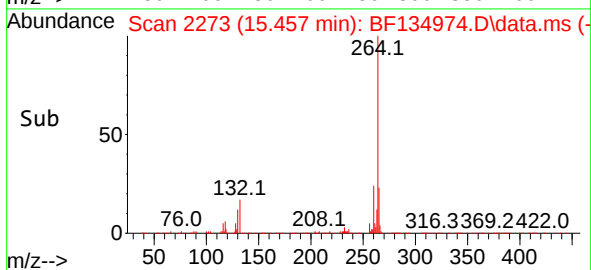
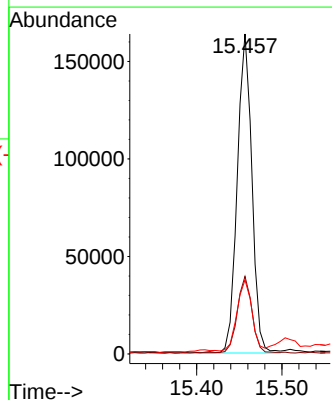
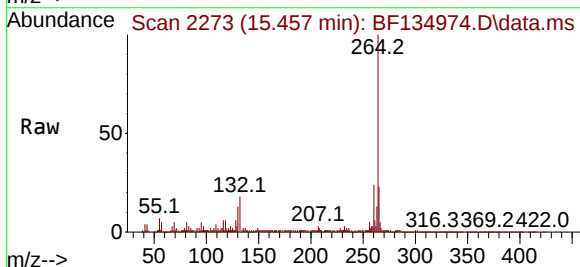
Manual Integrations
APPROVED

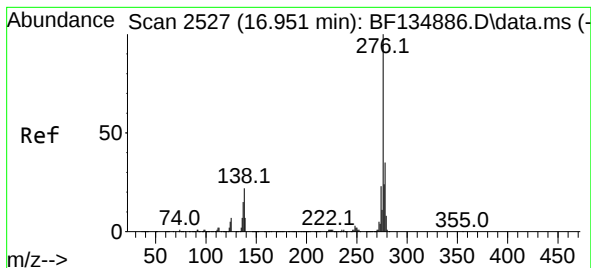
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.457 min Scan# 2273
Delta R.T. 0.006 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion:264 Resp: 195170
Ion Ratio Lower Upper
264 100
260 24.3 19.0 28.6
265 23.1 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.660 ng

RT: 16.945 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

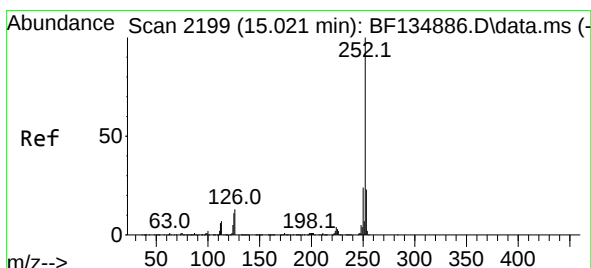
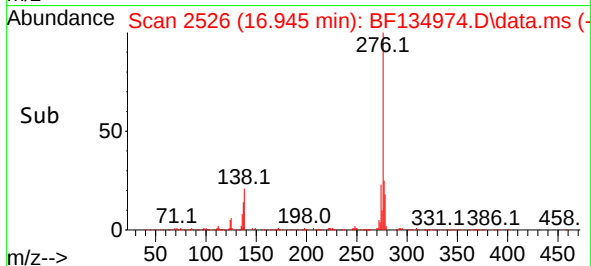
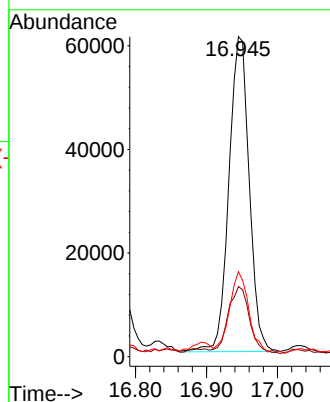
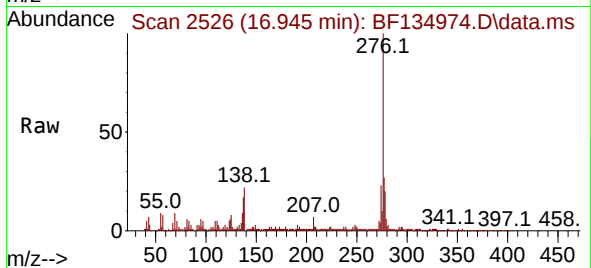
TP-21(3-4)DL

Tgt Ion:276 Resp: 12081
 Ion Ratio Lower Upper
 276 100
 138 22.3 19.7 29.5
 277 25.1 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/29/2023
 Supervised By :mohammad ahmed 08/29/2023



#88

Benzo(b)fluoranthene

Concen: 35.580 ng m

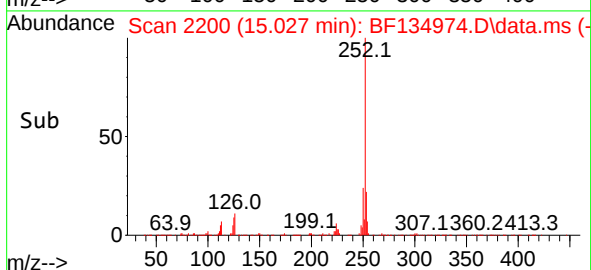
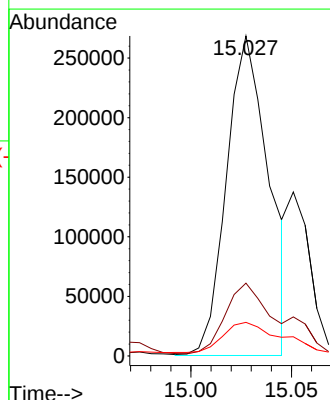
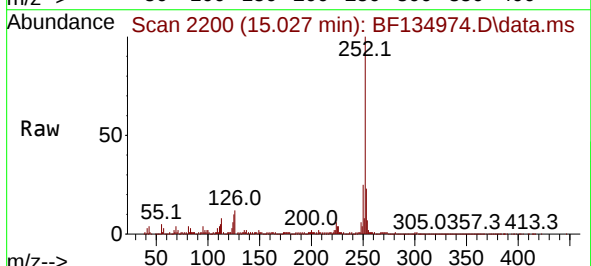
RT: 15.027 min Scan# 2200

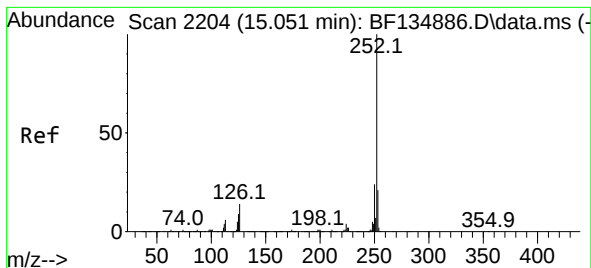
Delta R.T. 0.006 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Tgt Ion:252 Resp: 391783
 Ion Ratio Lower Upper
 252 100
 253 22.8 18.1 27.1
 125 10.5 8.4 12.6





#89

Benzo(k)fluoranthene

Concen: 9.704 ng m

RT: 15.051 min Scan# 2204

Delta R.T. 0.000 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

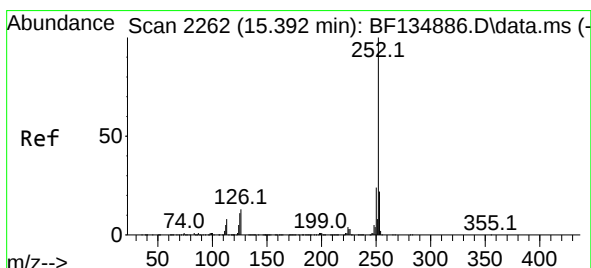
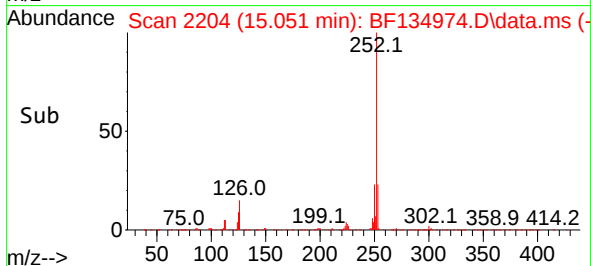
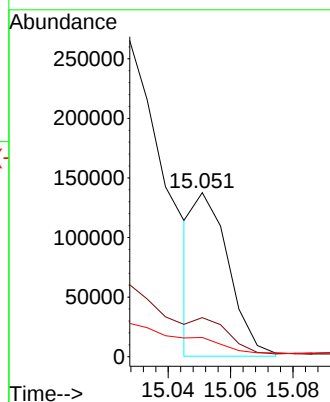
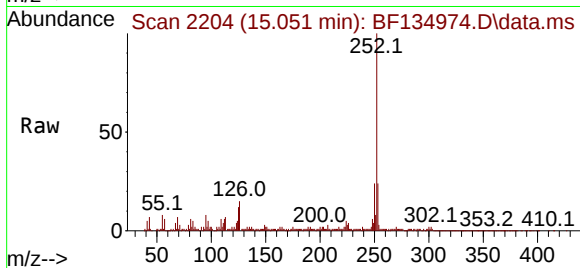
TP-21(3-4)DL

Tgt Ion:252 Resp: 104933
 Ion Ratio Lower Upper
 252 100
 253 23.8 17.1 25.7
 125 11.8 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/29/2023
 Supervised By :mohammad ahmed 08/29/2023



#90

Benzo(a)pyrene

Concen: 20.371 ng

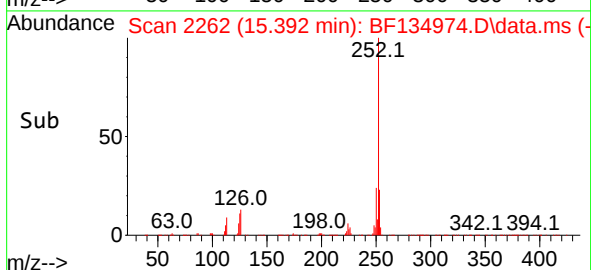
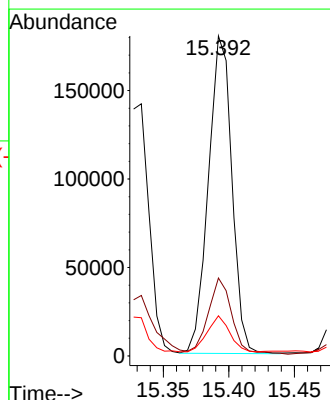
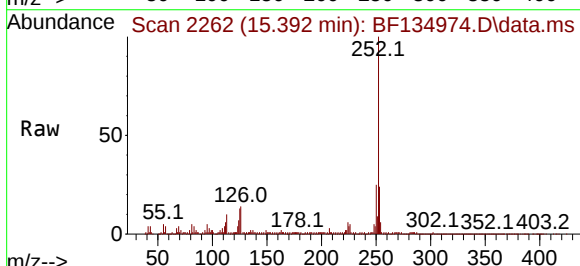
RT: 15.392 min Scan# 2262

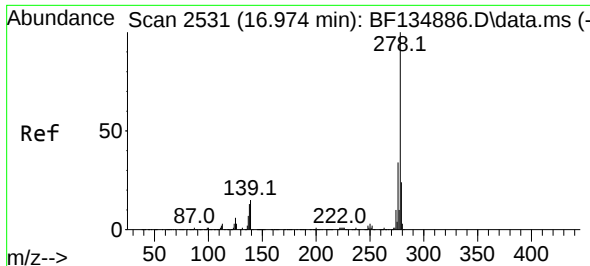
Delta R.T. 0.000 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Tgt Ion:252 Resp: 223923
 Ion Ratio Lower Upper
 252 100
 253 24.4 17.6 26.4
 125 12.6 8.4 12.6





#91
Dibenzo(a,h)anthracene
Concen: 2.828 ng
RT: 16.957 min Scan# 2528
Delta R.T. -0.018 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

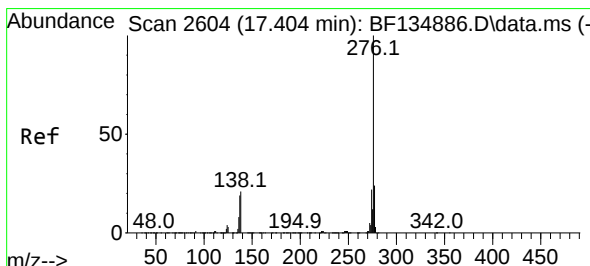
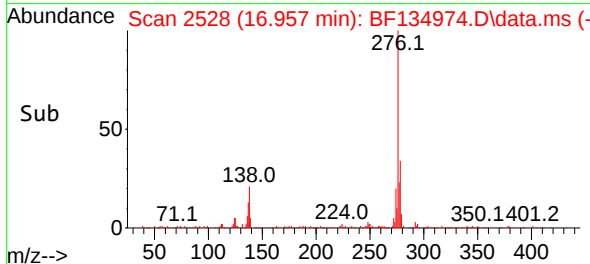
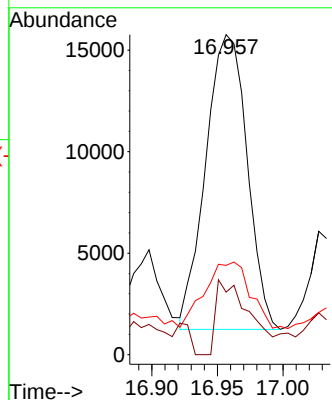
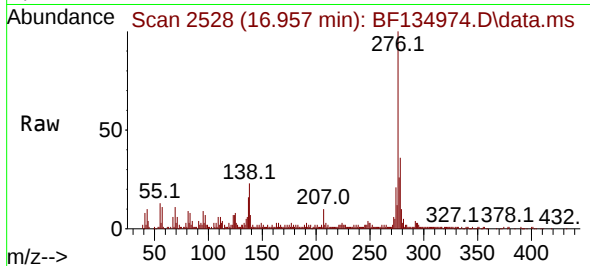
ClientSampleId :

TP-21(3-4)DL

Tgt Ion:278 Resp: 3192
Ion Ratio Lower Upper
278 100
139 19.5 12.2 18.4
279 27.9 19.1 28.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#92
Benzo(g,h,i)perylene
Concen: 9.497 ng
RT: 17.398 min Scan# 2603
Delta R.T. -0.006 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion:276 Resp: 109742
Ion Ratio Lower Upper
276 100
277 24.8 19.2 28.8
138 23.8 17.0 25.6

