

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
 Data File : BP019921.D
 Acq On : 28 Feb 2024 17:45
 Operator : MA/JU
 Sample : P1602-10
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 WC-4

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 02/29/2024
 Supervised By :mohammad ahmed 03/01/2024

Quant Time: Feb 29 00:33:41 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 27 02:05:05 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.887	152	105985	20.000	ng	-0.01
21) Naphthalene-d8	10.693	136	386375	20.000	ng	-0.01
39) Acenaphthene-d10	14.534	164	232441	20.000	ng	-0.01
64) Phenanthrene-d10	17.298	188	433964	20.000	ng	0.00
76) Chrysene-d12	21.410	240	458597	20.000	ng	0.00
86) Perylene-d12	23.839	264	543656	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.464	112	484040	74.962	ng	0.00
7) Phenol-d6	7.064	99	640968	66.672	ng	-0.01
23) Nitrobenzene-d5	9.063	82	442278	46.212	ng	-0.01
42) 2,4,6-Tribromophenol	16.034	330	271248	68.058	ng	-0.01
45) 2-Fluorobiphenyl	13.157	172	879816	51.141	ng	-0.01
79) Terphenyl-d14	19.875	244	1145253	39.361	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.746	128	51443	2.487	ng	97
37) 2-Methylnaphthalene	12.351	142	35470	2.209	ng	97
38) 1-Methylnaphthalene	12.575	142	55461	3.650	ng	97
49) Acenaphthylene	14.257	152	613923	29.334	ng	100
52) Acenaphthene	14.598	154	46482	3.699	ng	97
58) Fluorene	15.587	166	137677	7.915	ng	# 97
71) Phenanthrene	17.345	178	1834991	79.219	ng	99
72) Anthracene	17.434	178	674801	28.538	ng	100
73) Carbazole	17.716	167	112084	5.352	ng	98
75) Fluoranthene	19.322	202	3232244	107.521	ng	99
78) Pyrene	19.675	202	3670031	116.478	ng	99
81) Benzo(a)anthracene	21.392	228	1863220m	57.237	ng	
83) Chrysene	21.445	228	1899026	62.257	ng	97
87) Indeno(1,2,3-cd)pyrene	26.386	276	1181638	30.873	ng	98
88) Benzo(b)fluoranthene	23.104	252	2276646	68.304	ng	100
89) Benzo(k)fluoranthene	23.145	252	743075m	22.732	ng	
90) Benzo(a)pyrene	23.739	252	1788298	56.142	ng	99
91) Dibenzo(a,h)anthracene	26.398	278	331431	10.301	ng	# 84
92) Benzo(g,h,i)perylene	27.174	276	1192138	38.381	ng	97

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

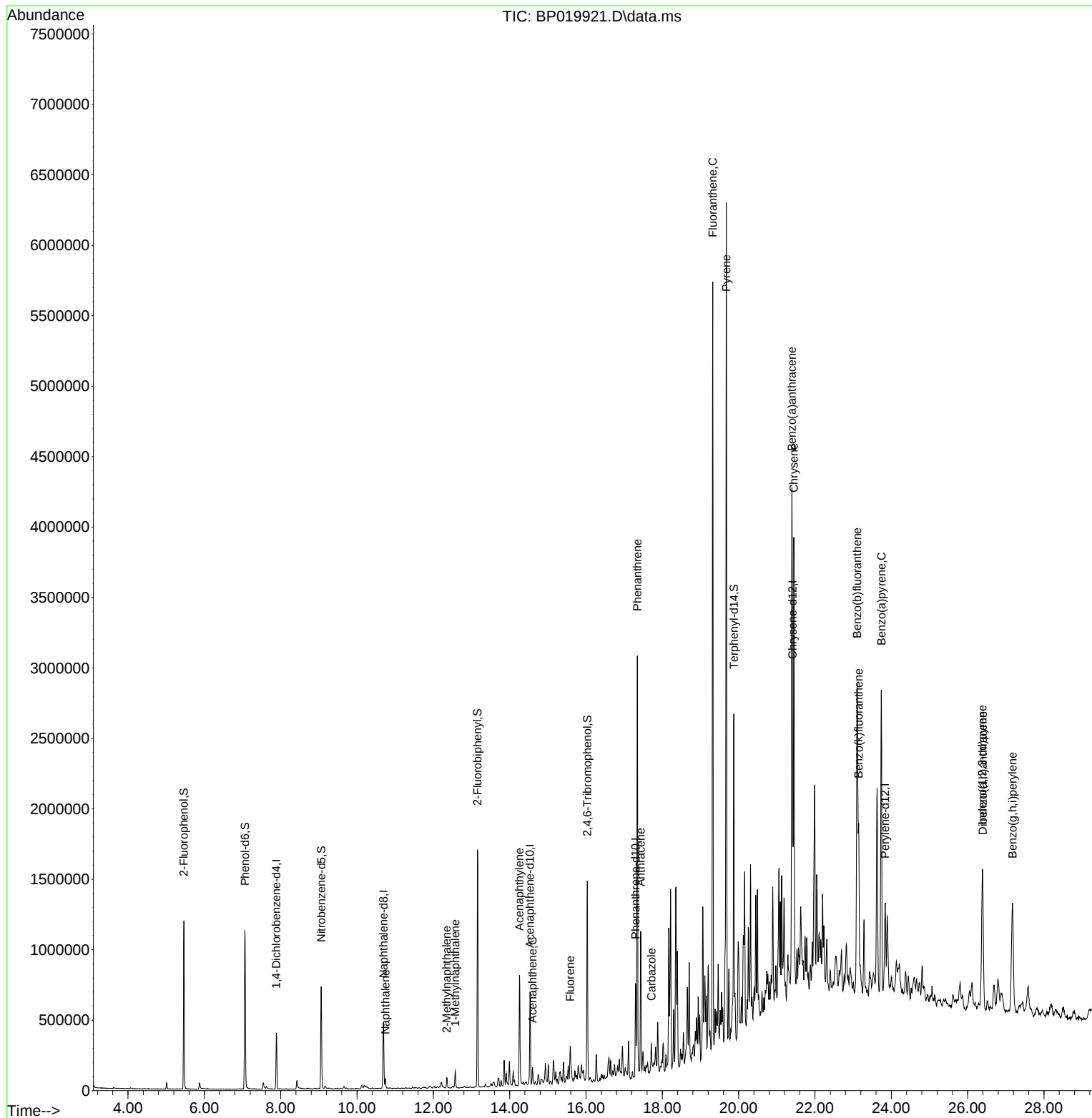
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022824\
Data File : BP019921.D
Acq On : 28 Feb 2024 17:45
Operator : MA/JU
Sample : P1602-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

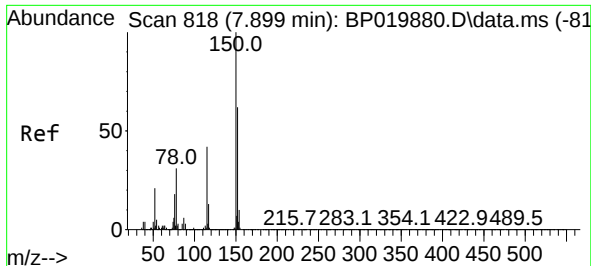
Instrument :
BNA_P
ClientSampleId :
WC-4

Quant Time: Feb 29 00:33:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP022624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 27 02:05:05 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

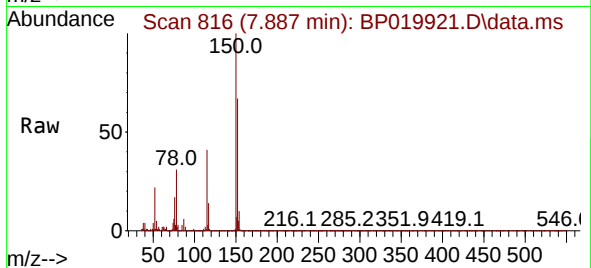
Reviewed By :Jagrut Upadhyay 02/29/2024
Supervised By :mohammad ahmed 03/01/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.887 min Scan# 81
Delta R.T. -0.012 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

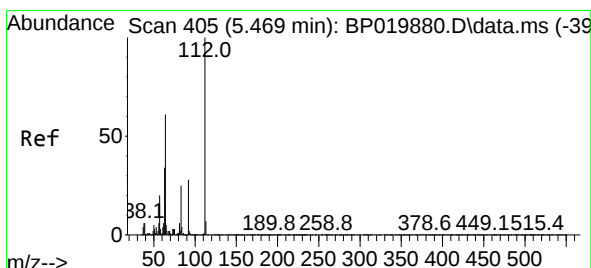
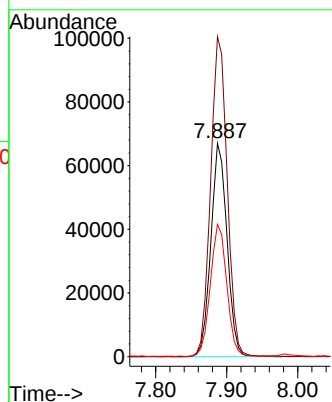
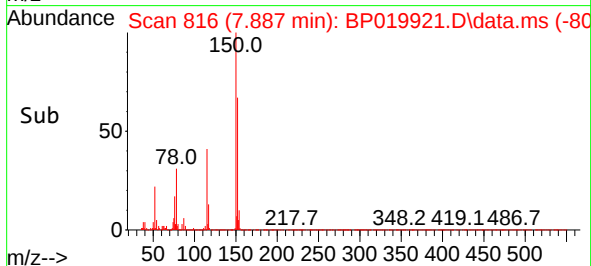
Instrument :
BNA_P
ClientSampleId :
WC-4



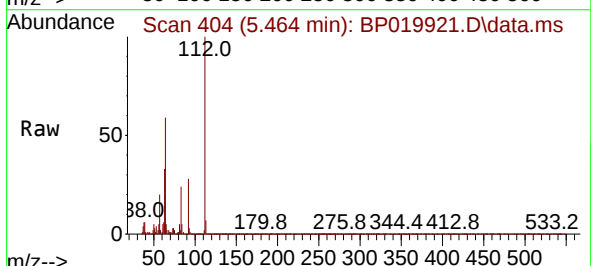
Tgt Ion:152 Resp: 10598
Ion Ratio Lower Upper
152 100
150 149.9 128.6 192.8
115 62.0 53.4 80.2

Manual Integrations
APPROVED

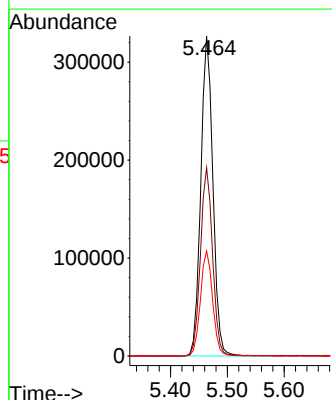
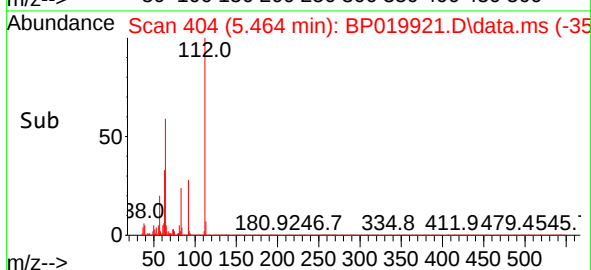
Reviewed By :Jagrut Upadhyay 02/29/2024
Supervised By :mohammad ahmed 03/01/2024



#5
2-Fluorophenol
Concen: 74.962 ng
RT: 5.464 min Scan# 404
Delta R.T. -0.006 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45



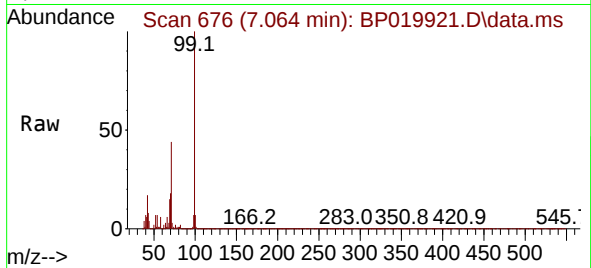
Tgt Ion:112 Resp: 484040
Ion Ratio Lower Upper
112 100
64 58.8 49.0 73.6
63 32.8 27.6 41.4





#7
Phenol-d6
Concen: 66.672 ng
RT: 7.064 min Scan# 61
Delta R.T. -0.012 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

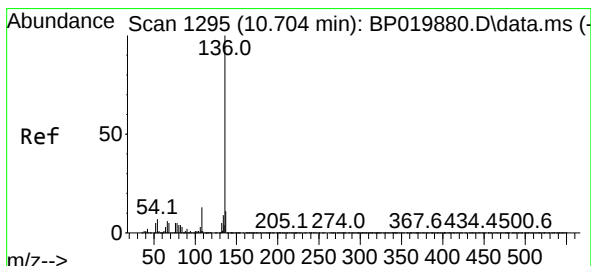
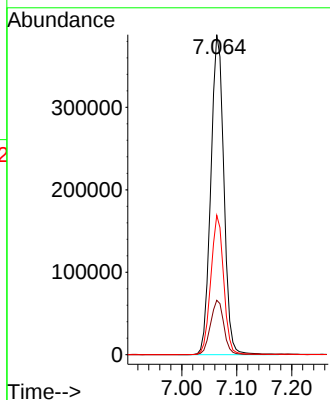
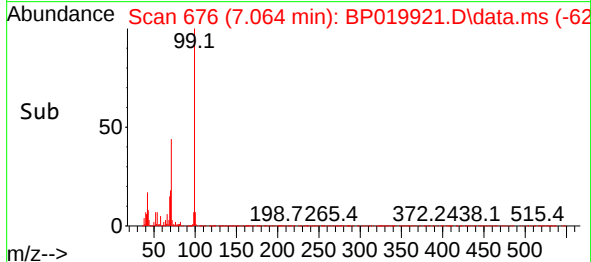
Instrument :
BNA_P
ClientSampleId :
WC-4



Tgt Ion: 99 Resp: 64096
Ion Ratio Lower Upper
99 100
42 17.0 13.8 20.8
71 43.5 34.5 51.7

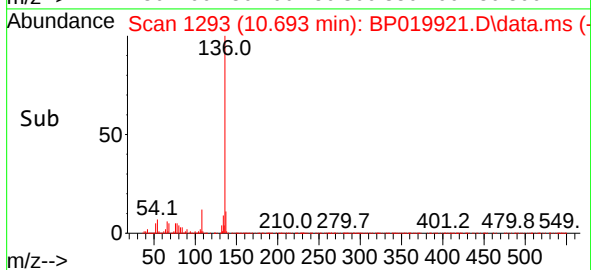
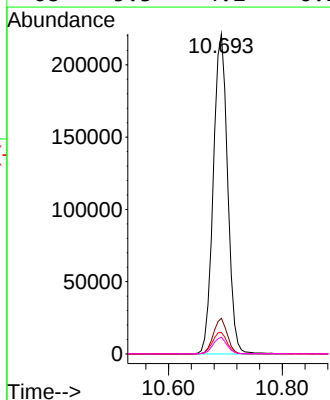
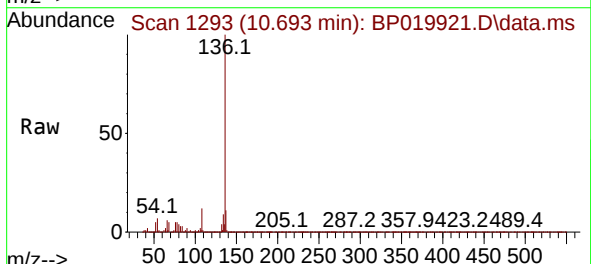
Manual Integrations
APPROVED

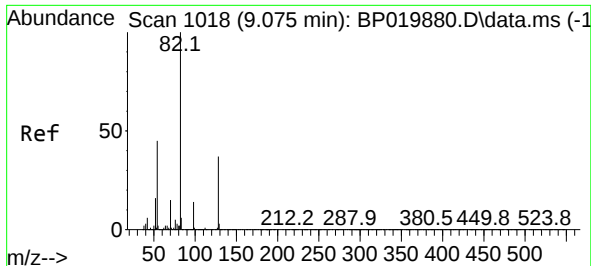
Reviewed By :Jagrut Upadhyay 02/29/2024
Supervised By :mohammad ahmed 03/01/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.693 min Scan# 1293
Delta R.T. -0.012 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

Tgt Ion:136 Resp: 386375
Ion Ratio Lower Upper
136 100
137 11.1 8.7 13.1
54 6.7 6.0 9.0
68 5.3 4.2 6.2





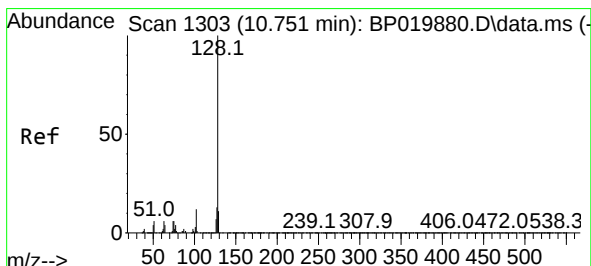
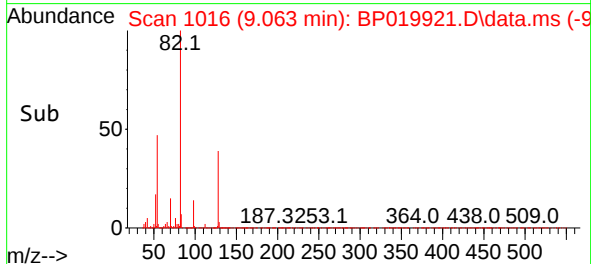
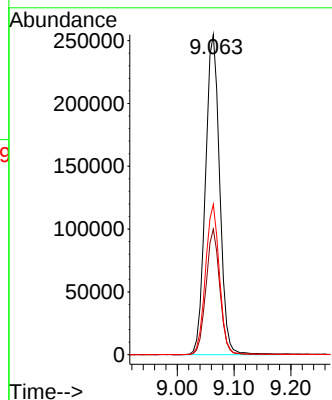
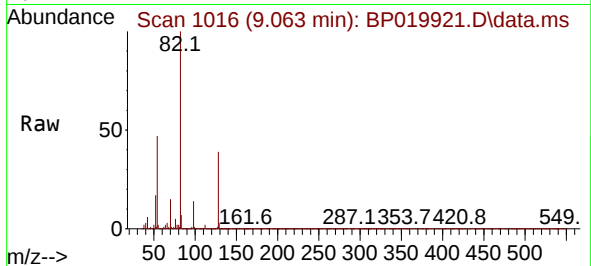
#23
Nitrobenzene-d5
Concen: 46.212 ng
RT: 9.063 min Scan# 1016
Delta R.T. -0.012 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

Instrument :
BNA_P
ClientSampleId :
WC-4

Tgt Ion: 82 Resp: 442278
Ion Ratio Lower Upper
82 100
128 39.2 29.6 44.4
54 47.0 36.3 54.5

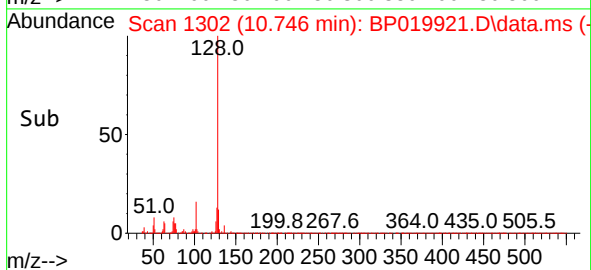
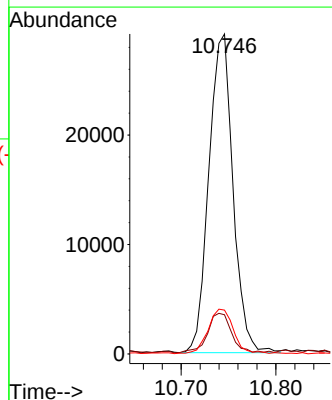
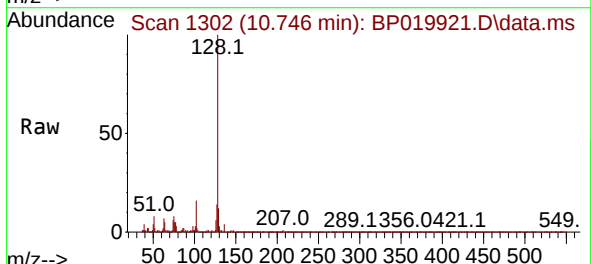
Manual Integrations
APPROVED

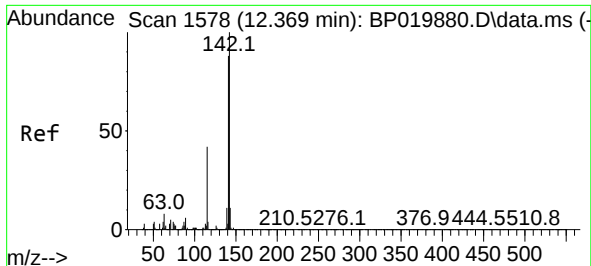
Reviewed By :Jagrut Upadhyay 02/29/2024
Supervised By :mohammad ahmed 03/01/2024



#31
Naphthalene
Concen: 2.487 ng
RT: 10.746 min Scan# 1302
Delta R.T. -0.006 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

Tgt Ion:128 Resp: 51443
Ion Ratio Lower Upper
128 100
129 12.2 8.6 12.8
127 13.7 10.2 15.2





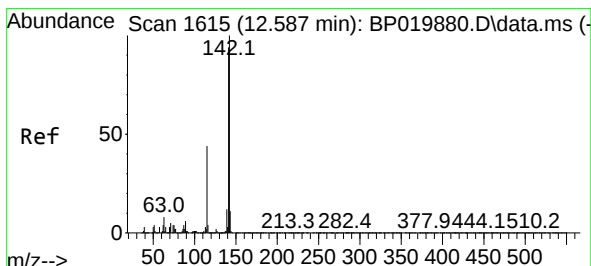
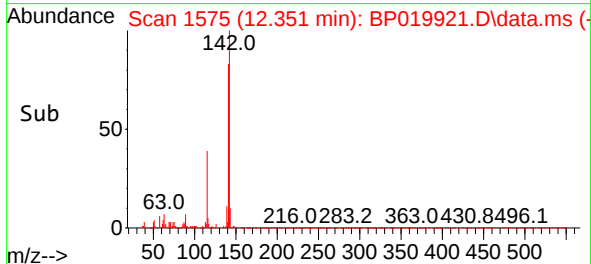
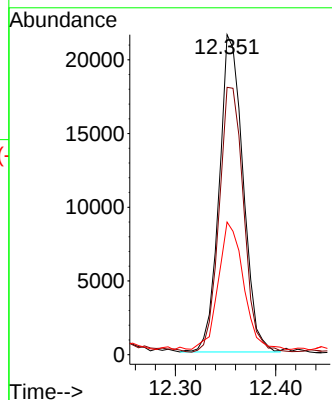
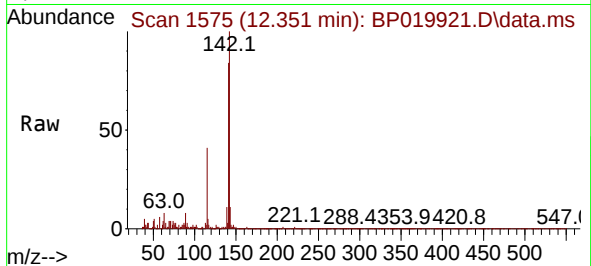
#37
2-Methylnaphthalene
Concen: 2.209 ng
RT: 12.351 min Scan# 11
Delta R.T. -0.018 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

Instrument :
BNA_P
ClientSampleId :
WC-4

Tgt Ion:142 Resp: 35470
Ion Ratio Lower Upper
142 100
141 83.6 70.0 105.0
115 41.5 33.7 50.5

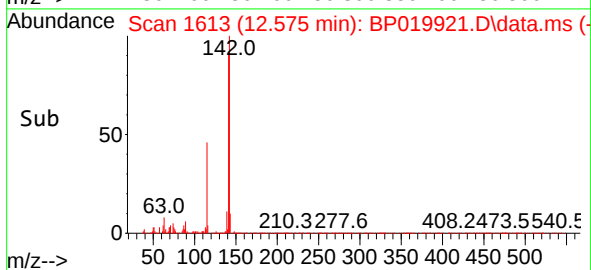
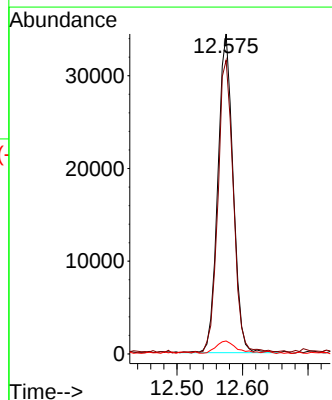
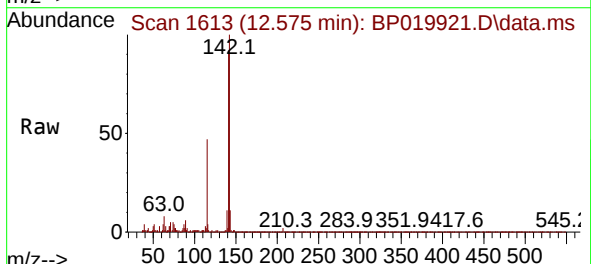
Manual Integrations
APPROVED

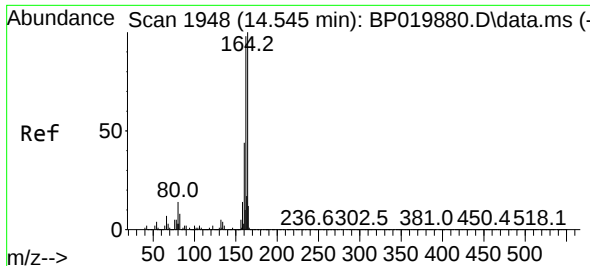
Reviewed By :Jagrut Upadhyay 02/29/2024
Supervised By :mohammad ahmed 03/01/2024



#38
1-Methylnaphthalene
Concen: 3.650 ng
RT: 12.575 min Scan# 1613
Delta R.T. -0.012 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

Tgt Ion:142 Resp: 55461
Ion Ratio Lower Upper
142 100
141 91.8 75.5 113.3
116 4.0 3.5 5.3





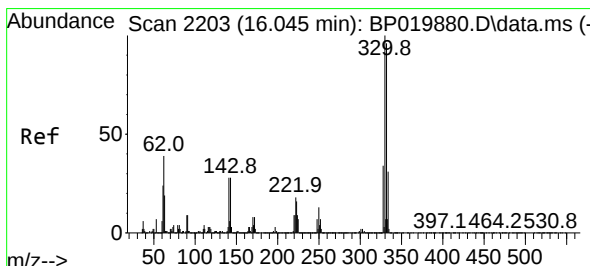
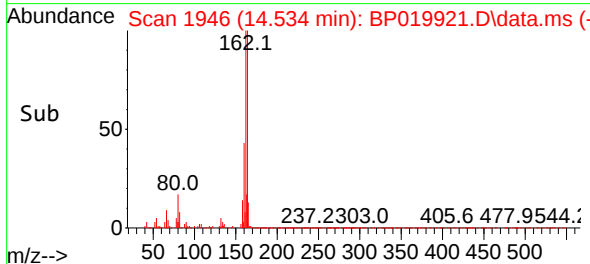
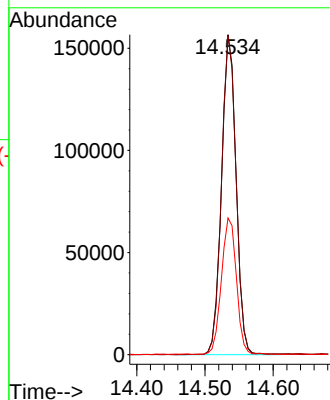
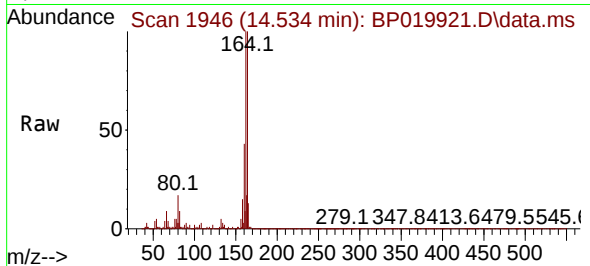
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.534 min Scan# 1946
Delta R.T. -0.012 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

Instrument :
BNA_P
ClientSampleId :
WC-4

Tgt Ion:164 Resp: 23244
Ion Ratio Lower Upper
164 100
162 99.8 78.1 117.1
160 42.7 35.3 52.9

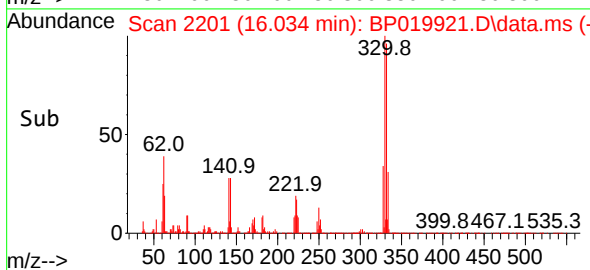
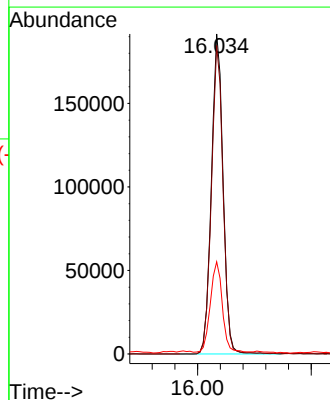
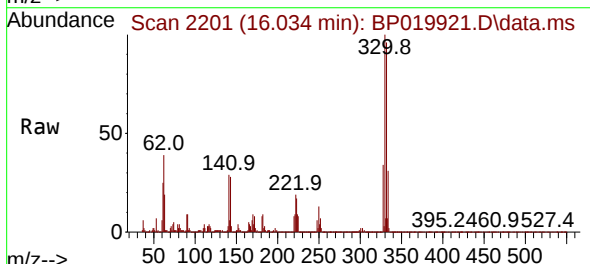
Manual Integrations
APPROVED

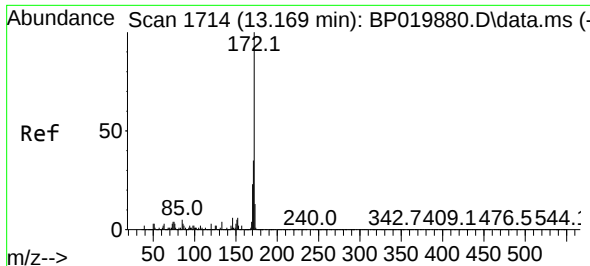
Reviewed By :Jagrut Upadhyay 02/29/2024
Supervised By :mohammad ahmed 03/01/2024



#42
2,4,6-Tribromophenol
Concen: 68.058 ng
RT: 16.034 min Scan# 2201
Delta R.T. -0.012 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

Tgt Ion:330 Resp: 271248
Ion Ratio Lower Upper
330 100
332 96.4 77.4 116.2
141 28.8 24.6 37.0





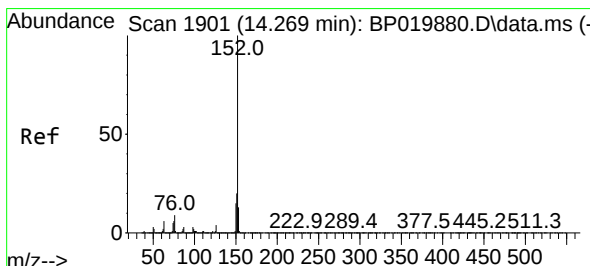
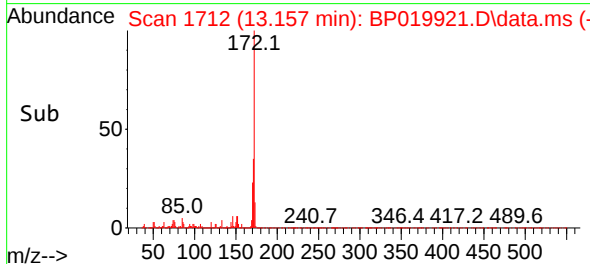
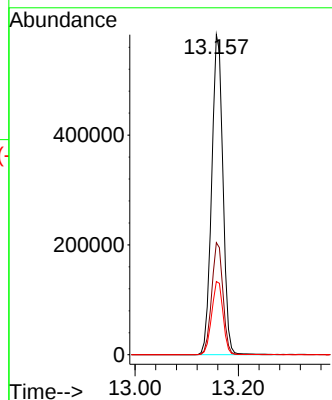
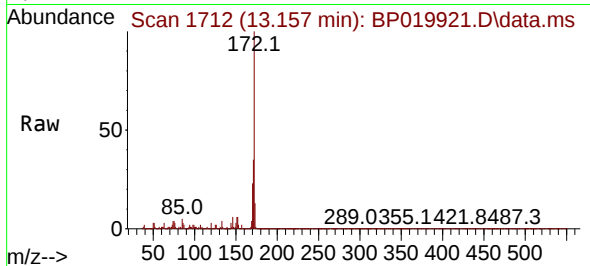
#45
2-Fluorobiphenyl
Concen: 51.141 ng
RT: 13.157 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

Instrument :
BNA_P
ClientSampleId :
WC-4

Tgt Ion:172 Resp: 879810
Ion Ratio Lower Upper
172 100
171 35.0 27.8 41.6
170 22.9 18.4 27.6

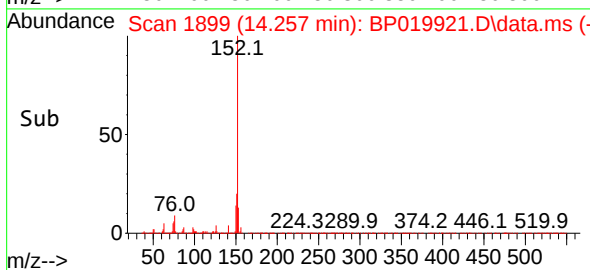
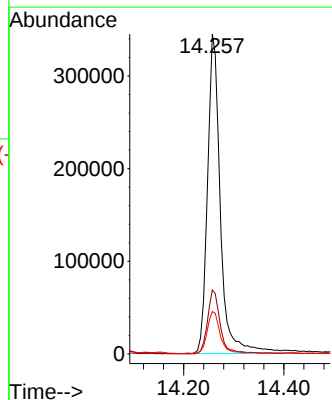
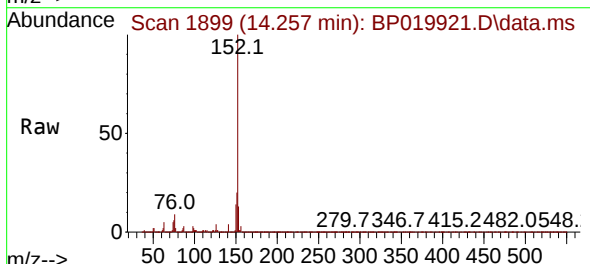
Manual Integrations
APPROVED

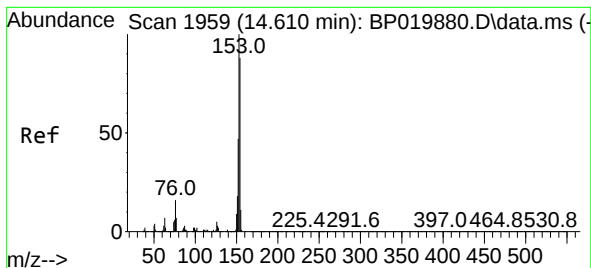
Reviewed By :Jagrut Upadhyay 02/29/2024
Supervised By :mohammad ahmed 03/01/2024



#49
Acenaphthylene
Concen: 29.334 ng
RT: 14.257 min Scan# 1899
Delta R.T. -0.012 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

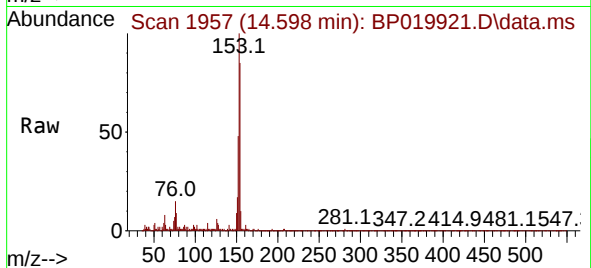
Tgt Ion:152 Resp: 613923
Ion Ratio Lower Upper
152 100
151 20.0 15.9 23.9
153 13.2 10.4 15.6





#52
Acenaphthene
Concen: 3.699 ng
RT: 14.598 min Scan# 1957
Delta R.T. -0.012 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

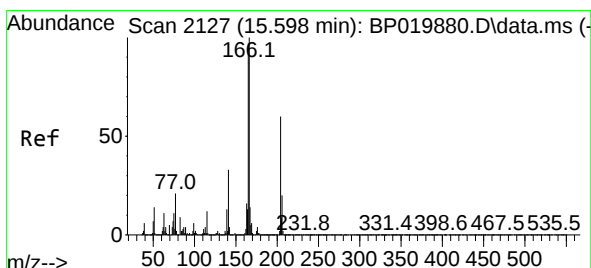
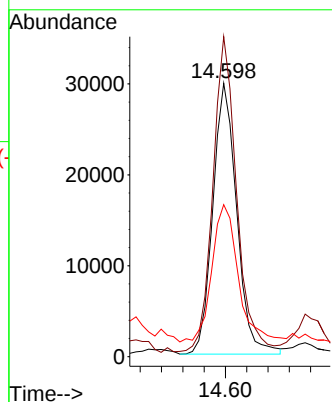
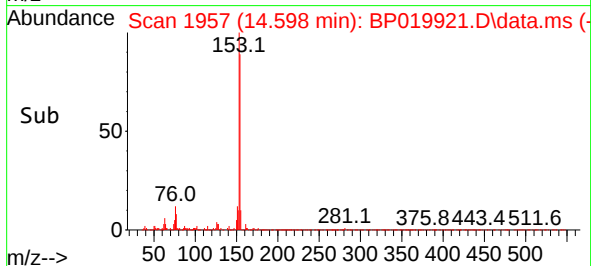
Instrument :
BNA_P
ClientSampleId :
WC-4



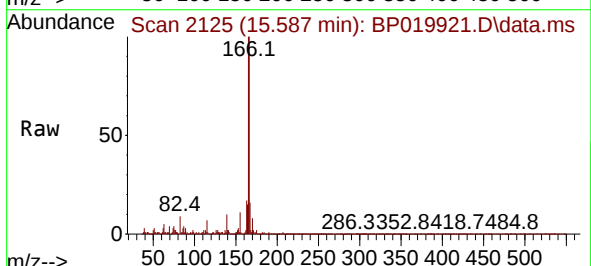
Tgt Ion:154 Resp: 4648
Ion Ratio Lower Upper
154 100
153 117.0 90.9 136.3
152 55.6 42.3 63.5

Manual Integrations
APPROVED

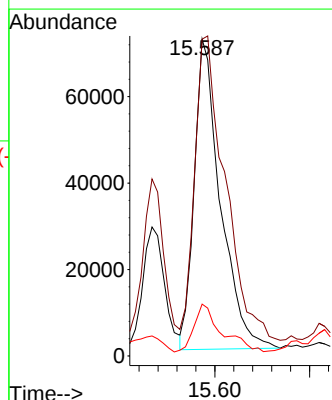
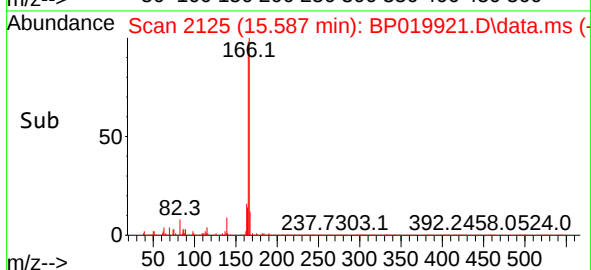
Reviewed By :Jagrut Upadhyay 02/29/2024
Supervised By :mohammad ahmed 03/01/2024

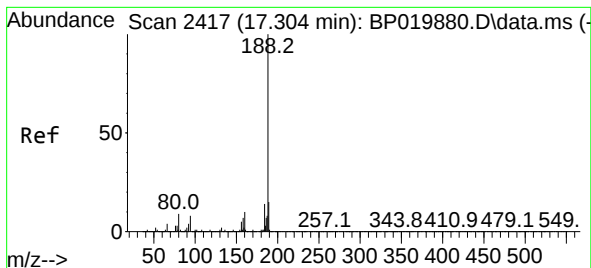


#58
Fluorene
Concen: 7.915 ng
RT: 15.587 min Scan# 2125
Delta R.T. -0.012 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45



Tgt Ion:166 Resp: 137677
Ion Ratio Lower Upper
166 100
165 100.0 77.8 116.6
167 16.4 10.8 16.2#





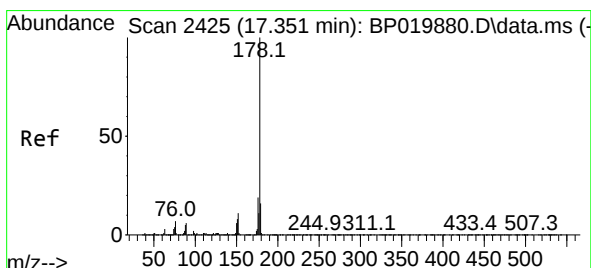
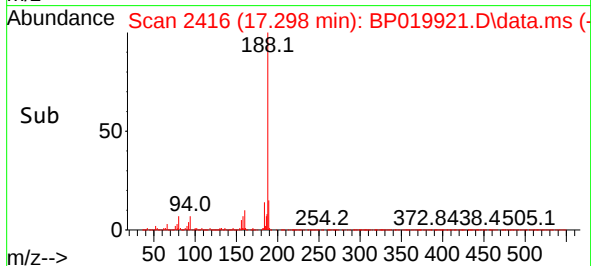
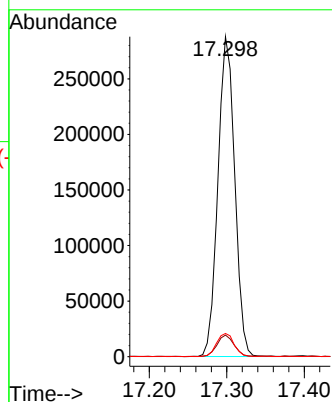
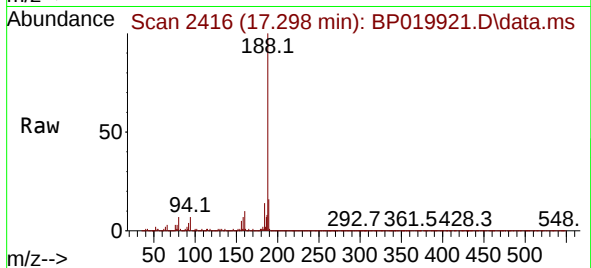
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.298 min Scan# 2416
Delta R.T. -0.006 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

Instrument :
BNA_P
ClientSampleId :
WC-4

Tgt Ion:188 Resp: 433964
Ion Ratio Lower Upper
188 100
94 6.7 6.2 9.4
80 7.2 7.0 10.4

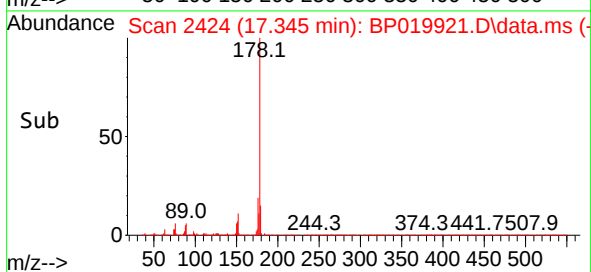
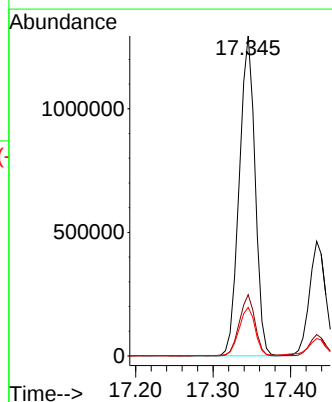
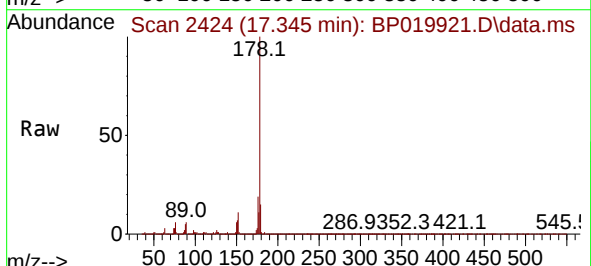
Manual Integrations
APPROVED

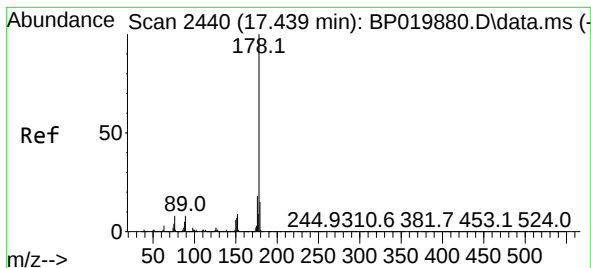
Reviewed By :Jagrut Upadhyay 02/29/2024
Supervised By :mohammad ahmed 03/01/2024



#71
Phenanthrene
Concen: 79.219 ng
RT: 17.345 min Scan# 2424
Delta R.T. -0.006 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

Tgt Ion:178 Resp: 1834991
Ion Ratio Lower Upper
178 100
176 19.2 15.2 22.8
179 15.2 12.5 18.7





#72

Anthracene

Concen: 28.538 ng

RT: 17.434 min Scan# 2440

Delta R.T. -0.006 min

Lab File: BP019921.D

Acq: 28 Feb 2024 17:45

Instrument :

BNA_P

ClientSampleId :

WC-4

Tgt Ion:178 Resp: 67480

Ion Ratio Lower Upper

178 100

176 18.7 14.7 22.1

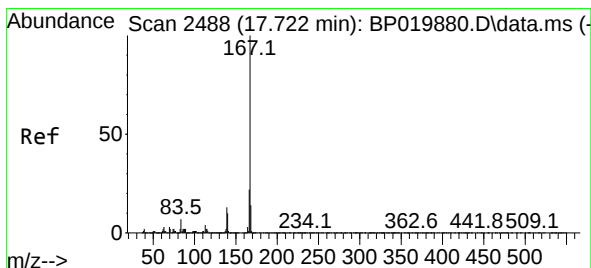
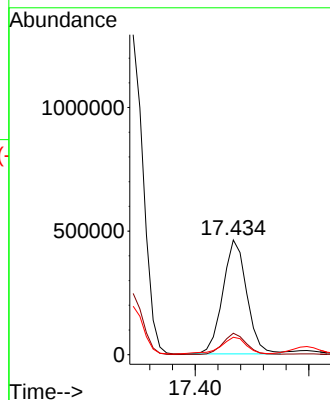
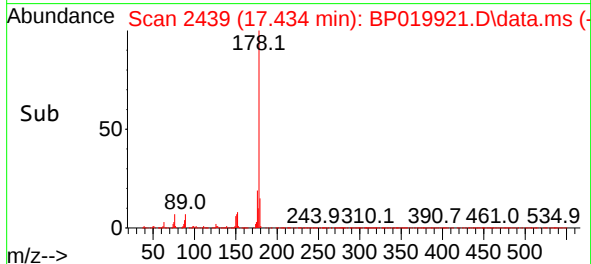
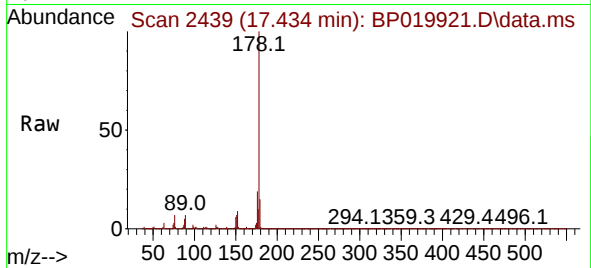
179 15.2 12.2 18.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/29/2024

Supervised By :mohammad ahmed 03/01/2024



#73

Carbazole

Concen: 5.352 ng

RT: 17.716 min Scan# 2487

Delta R.T. -0.006 min

Lab File: BP019921.D

Acq: 28 Feb 2024 17:45

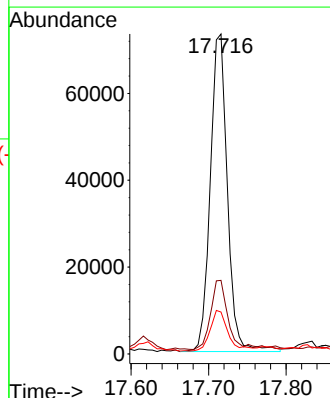
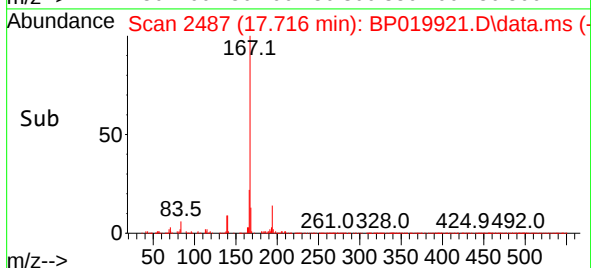
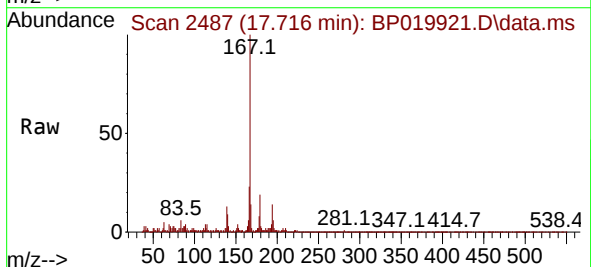
Tgt Ion:167 Resp: 112084

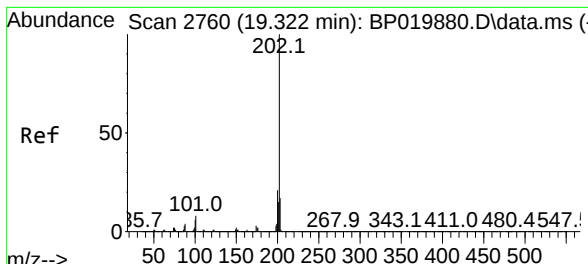
Ion Ratio Lower Upper

167 100

166 23.0 17.3 25.9

139 13.1 10.5 15.7





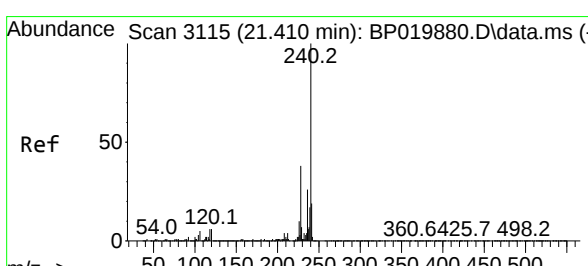
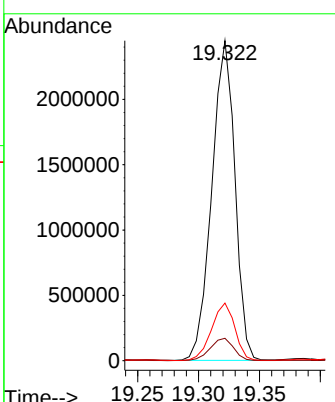
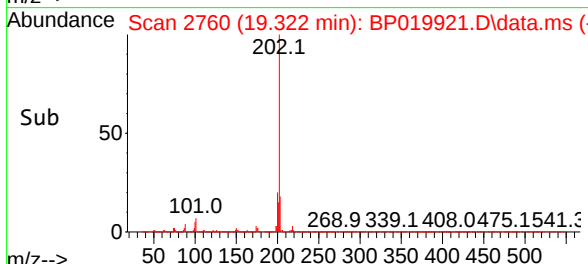
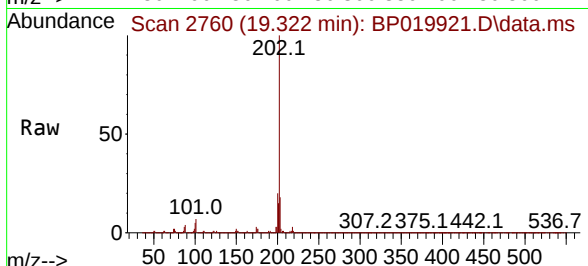
#75
 Fluoranthene
 Concen: 107.521 ng
 RT: 19.322 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BP019921.D
 Acq: 28 Feb 2024 17:45

Instrument :
 BNA_P
 ClientSampleId :
 WC-4

Tgt Ion: 202 Resp: 323224

Ion	Ratio	Lower	Upper
202	100		
101	7.0	0.0	27.7
203	18.0	0.0	37.5

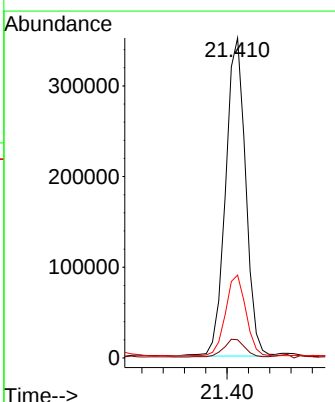
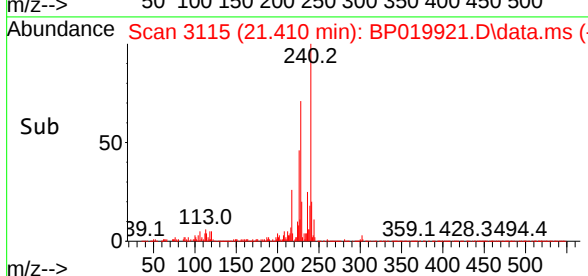
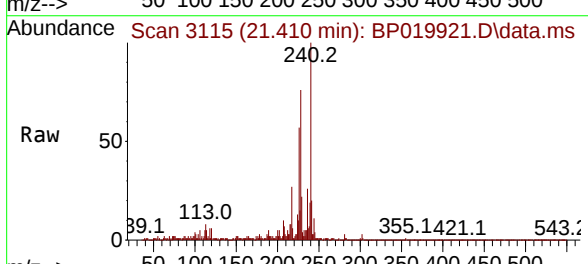
Manual Integrations
APPROVED
 Reviewed By :Jagrut Upadhyay 02/29/2024
 Supervised By :mohammad ahmed 03/01/2024

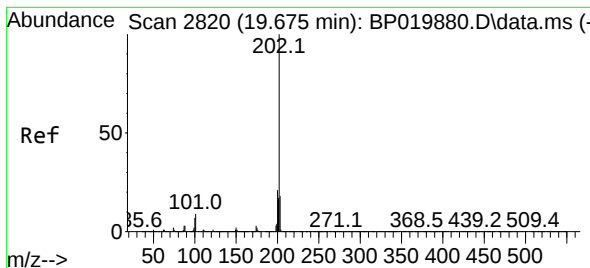


#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 21.410 min Scan# 3115
 Delta R.T. 0.000 min
 Lab File: BP019921.D
 Acq: 28 Feb 2024 17:45

Tgt Ion: 240 Resp: 458597

Ion	Ratio	Lower	Upper
240	100		
120	5.7	5.1	7.7
236	25.9	20.5	30.7





#78

Pyrene

Concen: 116.478 ng

RT: 19.675 min Scan# 2820

Delta R.T. 0.000 min

Lab File: BP019921.D

Acq: 28 Feb 2024 17:45

Instrument :

BNA_P

ClientSampleId :

WC-4

Tgt Ion:202 Resp: 367003

Ion Ratio Lower Upper

202 100

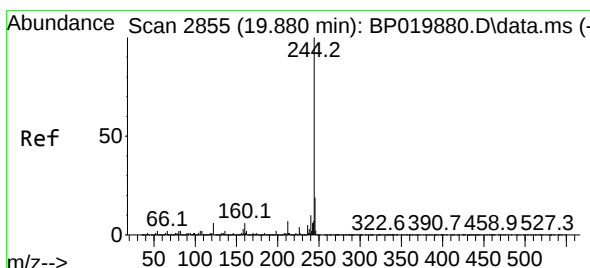
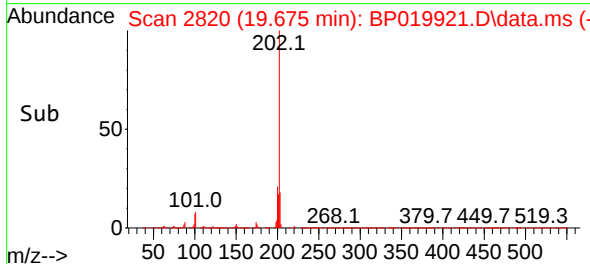
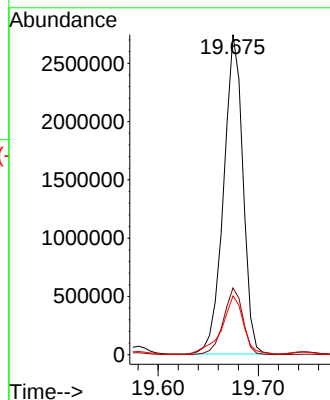
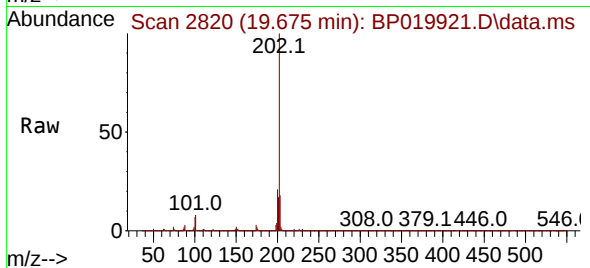
200 20.8 16.7 25.1

203 18.4 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/29/2024
Supervised By :mohammad ahmed 03/01/2024



#79

Terphenyl-d14

Concen: 39.361 ng

RT: 19.875 min Scan# 2854

Delta R.T. -0.006 min

Lab File: BP019921.D

Acq: 28 Feb 2024 17:45

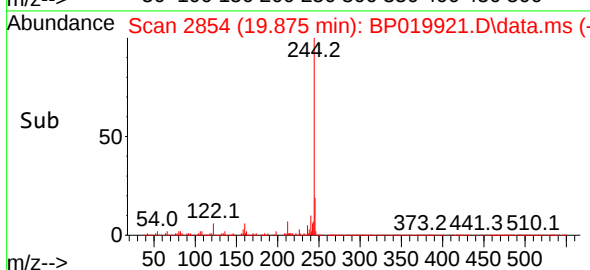
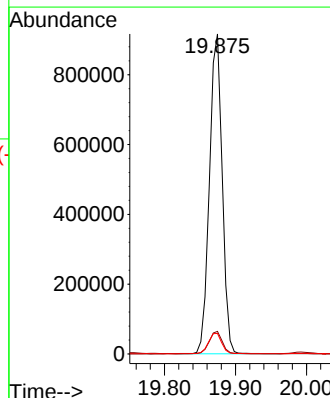
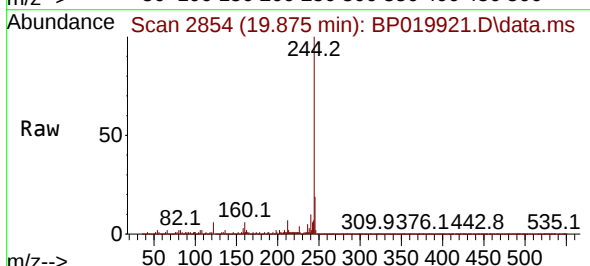
Tgt Ion:244 Resp: 1145253

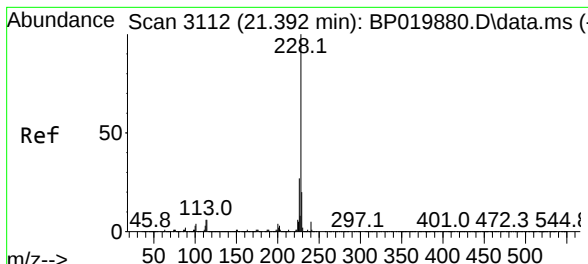
Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.8

122 6.4 5.0 7.6





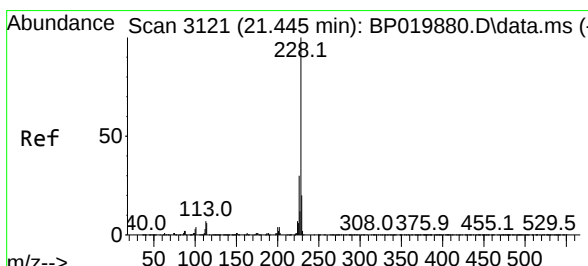
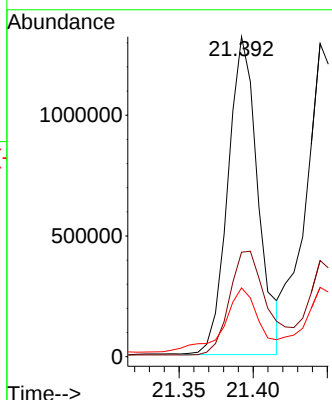
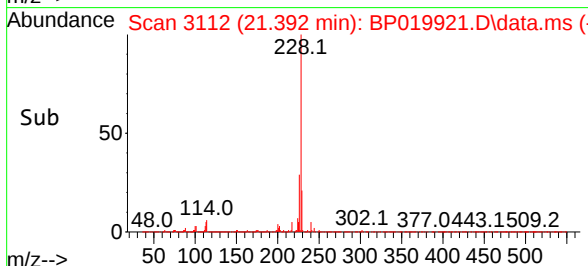
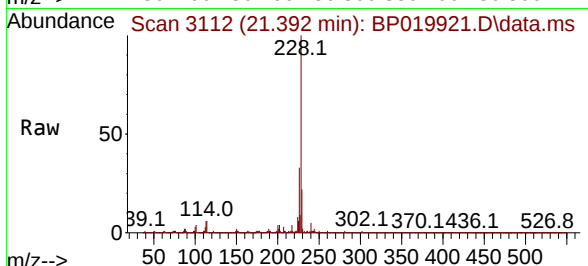
#81
Benzo(a)anthracene
Concen: 57.237 ng m
RT: 21.392 min Scan# 3112
Delta R.T. 0.000 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

Instrument :
BNA_P
ClientSampleId :
WC-4

Tgt Ion:228 Resp: 1863220
Ion Ratio Lower Upper
228 100
226 32.7 21.5 32.3
229 21.5 15.6 23.4

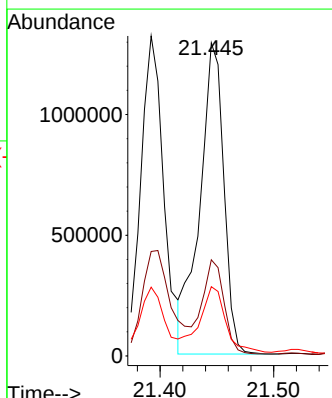
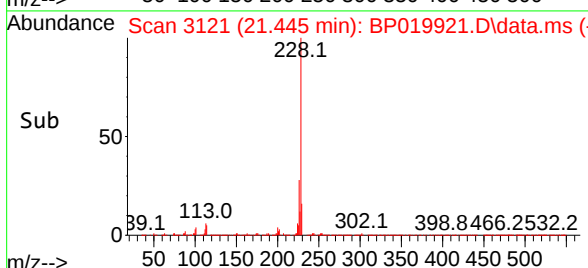
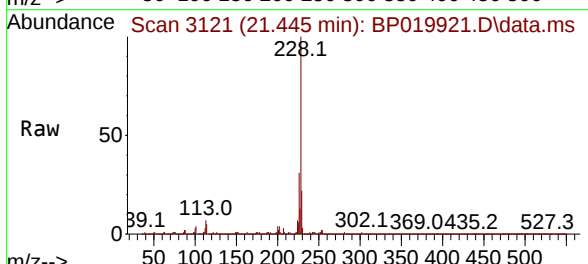
Manual Integrations
APPROVED

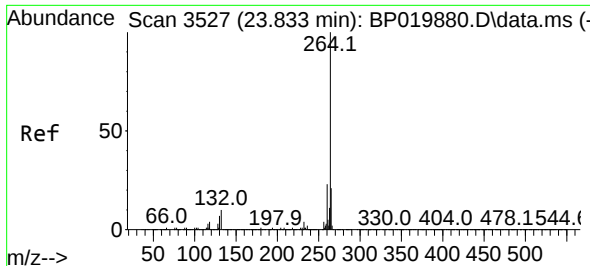
Reviewed By :Jagrut Upadhyay 02/29/2024
Supervised By :mohammad ahmed 03/01/2024



#83
Chrysene
Concen: 62.257 ng
RT: 21.445 min Scan# 3121
Delta R.T. 0.000 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

Tgt Ion:228 Resp: 1899026
Ion Ratio Lower Upper
228 100
226 30.7 23.9 35.9
229 22.1 15.7 23.5





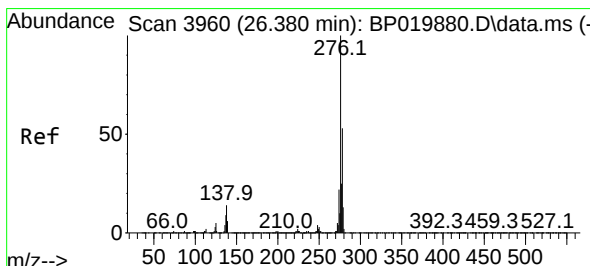
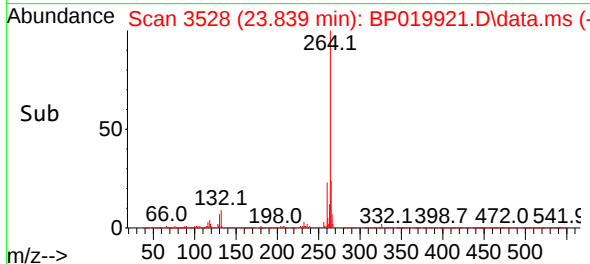
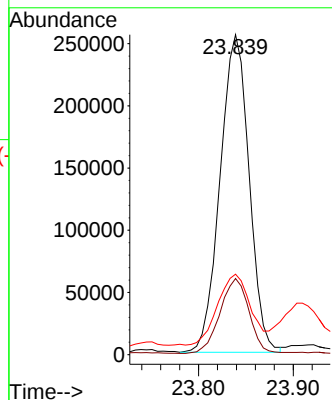
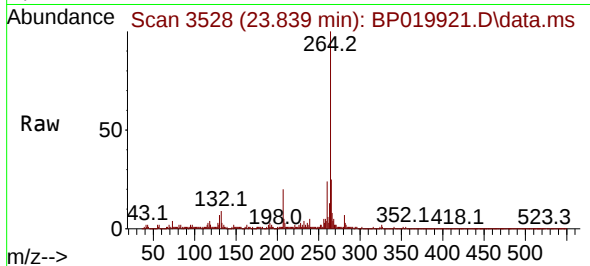
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.839 min Scan# 3527
 Delta R.T. 0.006 min
 Lab File: BP019921.D
 Acq: 28 Feb 2024 17:45

Instrument :
 BNA_P
 ClientSampleId :
 WC-4

Tgt Ion:264 Resp: 543650
 Ion Ratio Lower Upper
 264 100
 260 23.8 18.7 28.1
 265 25.1 17.4 26.2

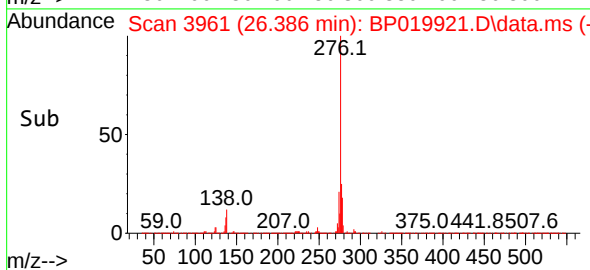
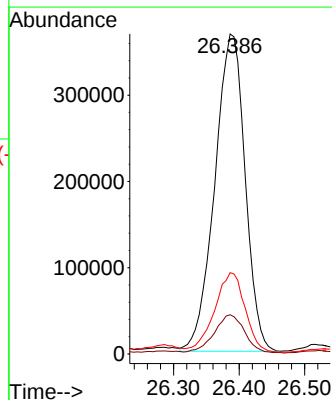
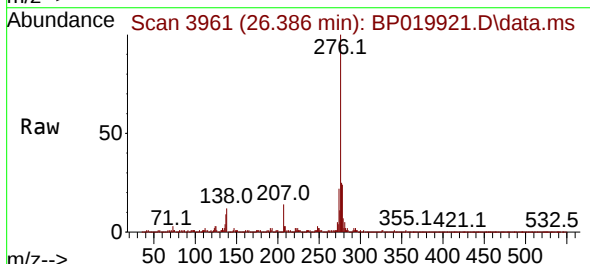
Manual Integrations
 APPROVED

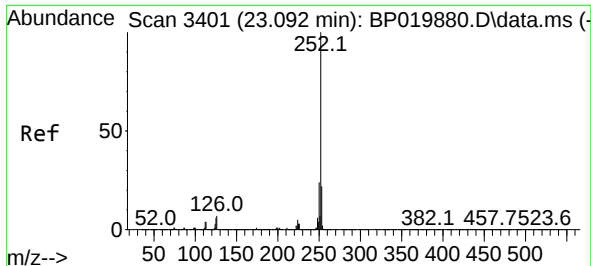
Reviewed By :Jagrut Upadhyay 02/29/2024
 Supervised By :mohammad ahmed 03/01/2024



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 30.873 ng
 RT: 26.386 min Scan# 3961
 Delta R.T. 0.006 min
 Lab File: BP019921.D
 Acq: 28 Feb 2024 17:45

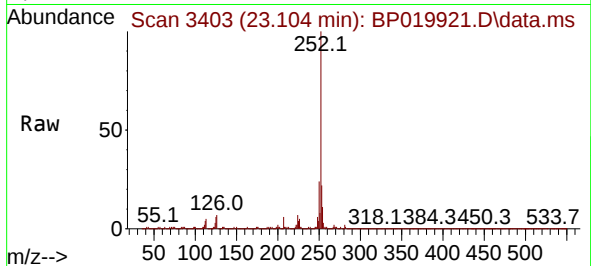
Tgt Ion:276 Resp: 1181638
 Ion Ratio Lower Upper
 276 100
 138 12.1 11.7 17.5
 277 25.4 20.2 30.4





#88
Benzo(b)fluoranthene
Concen: 68.304 ng
RT: 23.104 min Scan# 3403
Delta R.T. 0.012 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

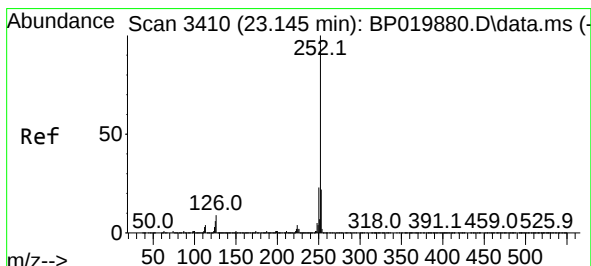
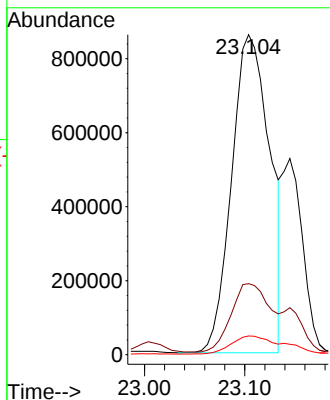
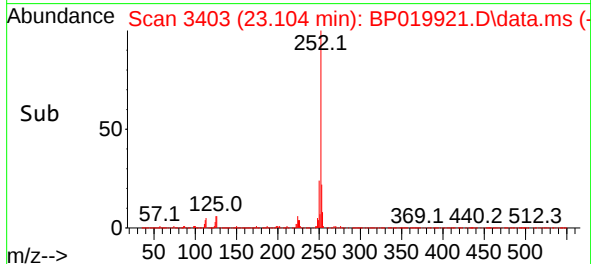
Instrument :
BNA_P
ClientSampleId :
WC-4



Tgt Ion:252 Resp: 2276640
Ion Ratio Lower Upper
252 100
253 22.2 17.6 26.4
125 5.8 4.6 7.0

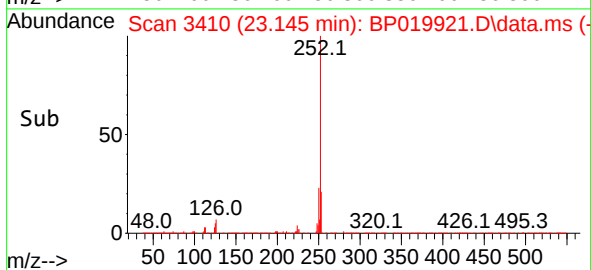
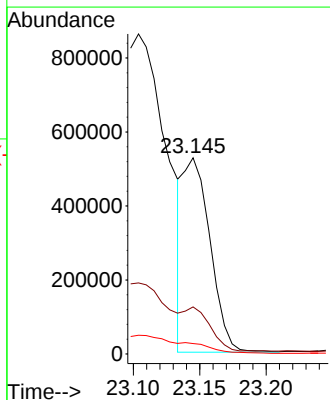
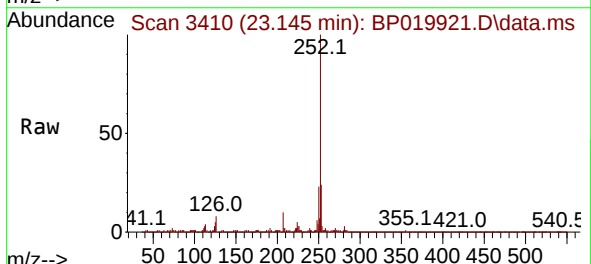
Manual Integrations
APPROVED

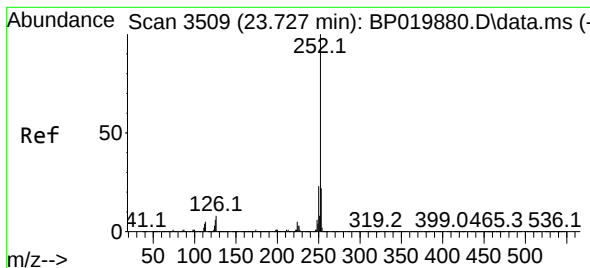
Reviewed By :Jagrut Upadhyay 02/29/2024
Supervised By :mohammad ahmed 03/01/2024



#89
Benzo(k)fluoranthene
Concen: 22.732 ng m
RT: 23.145 min Scan# 3410
Delta R.T. 0.000 min
Lab File: BP019921.D
Acq: 28 Feb 2024 17:45

Tgt Ion:252 Resp: 743075
Ion Ratio Lower Upper
252 100
253 24.0 17.3 25.9
125 5.3 4.6 6.8





#90

Benzo(a)pyrene

Concen: 56.142 ng

RT: 23.739 min Scan# 3511

Delta R.T. 0.012 min

Lab File: BP019921.D

Acq: 28 Feb 2024 17:45

Instrument :

BNA_P

ClientSampleId :

WC-4

Tgt Ion:252 Resp: 1788298

Ion Ratio Lower Upper

252 100

253 22.5 17.5 26.3

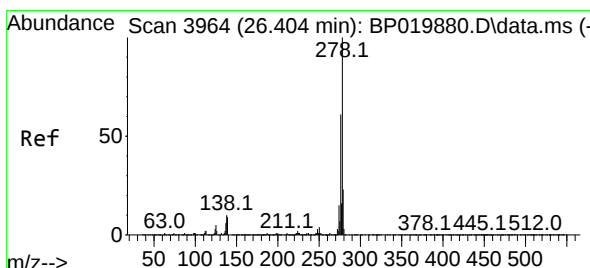
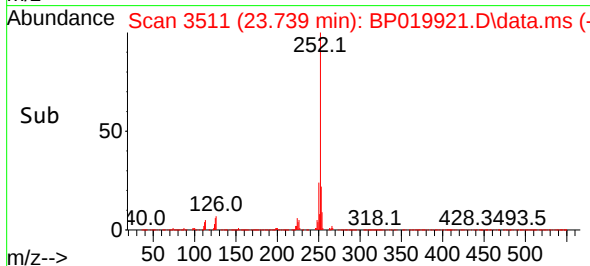
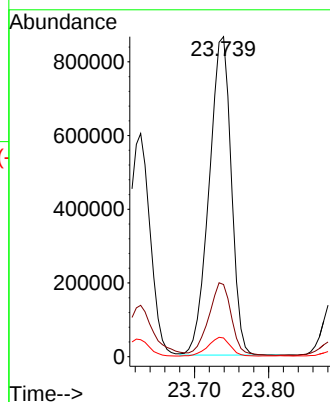
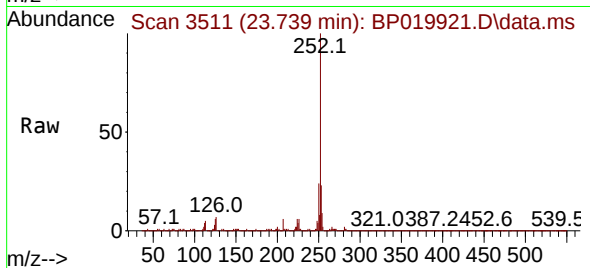
125 5.9 5.2 7.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/29/2024

Supervised By :mohammad ahmed 03/01/2024



#91

Dibenzo(a,h)anthracene

Concen: 10.301 ng

RT: 26.398 min Scan# 3963

Delta R.T. -0.006 min

Lab File: BP019921.D

Acq: 28 Feb 2024 17:45

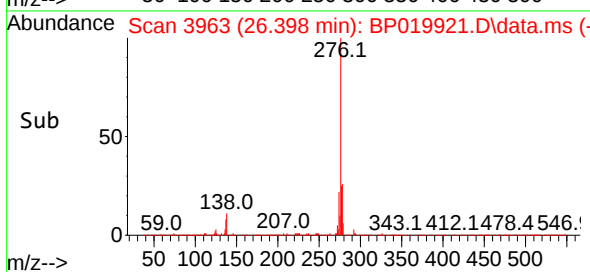
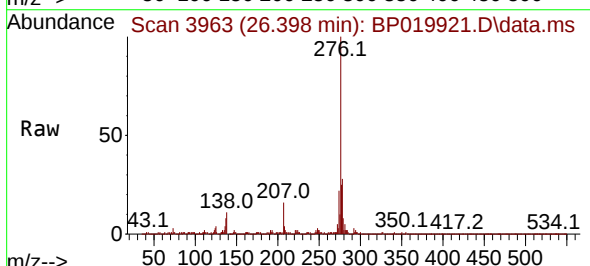
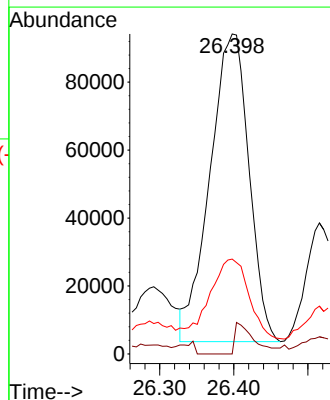
Tgt Ion:278 Resp: 331431

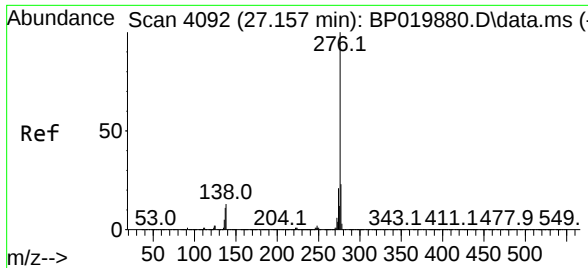
Ion Ratio Lower Upper

278 100

139 0.0 7.4 11.0#

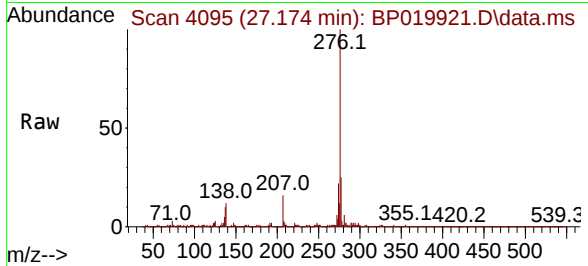
279 29.7 18.7 28.1#





#92
 Benzo(g,h,i)perylene
 Concen: 38.381 ng
 RT: 27.174 min Scan# 4095
 Delta R.T. 0.018 min
 Lab File: BP019921.D
 Acq: 28 Feb 2024 17:45

Instrument :
 BNA_P
 ClientSampleId :
 WC-4



Tgt Ion: 276 Resp: 1192138
 Ion Ratio Lower Upper
 276 100
 277 25.2 18.5 27.7
 138 12.3 10.2 15.2

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 02/29/2024
 Supervised By :mohammad ahmed 03/01/2024

