

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021424\
 Data File : BP019710.D
 Acq On : 14 Feb 2024 20:02
 Operator : MA/JU
 Sample : P1464-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PN-1(SOUTH-AREA)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/15/2024
 Supervised By :mohammad ahmed 02/15/2024

Quant Time: Feb 14 23:27:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 01 00:51:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.905	152	69632	20.000	ng	-0.01
21) Naphthalene-d8	10.704	136	248353	20.000	ng	#-0.01
39) Acenaphthene-d10	14.540	164	162950	20.000	ng	-0.01
64) Phenanthrene-d10	17.298	188	377662	20.000	ng	0.00
76) Chrysene-d12	21.386	240	416481	20.000	ng	0.00
86) Perylene-d12	23.804	264	482734	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	342875	79.373	ng	-0.01
7) Phenol-d6	7.075	99	451257	77.473	ng	-0.01
23) Nitrobenzene-d5	9.075	82	317939	55.472	ng	-0.01
42) 2,4,6-Tribromophenol	16.034	330	255363	107.332	ng	0.00
45) 2-Fluorobiphenyl	13.163	172	734775	55.744	ng	-0.02
79) Terphenyl-d14	19.863	244	1489361	58.810	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.752	128	206288	15.145	ng	# 93
37) 2-Methylnaphthalene	12.363	142	159609	16.932	ng	98
38) 1-Methylnaphthalene	12.581	142	288829m	31.179	ng	
46) 1,1'-Biphenyl	13.375	154	27747	2.133	ng	98
52) Acenaphthene	14.604	154	61215	6.585	ng	93
58) Fluorene	15.592	166	72756	6.033	ng	# 87
71) Phenanthrene	17.339	178	475902	23.945	ng	98
72) Anthracene	17.428	178	118158m	5.960	ng	
75) Fluoranthene	19.310	202	1329633	54.764	ng	99
78) Pyrene	19.657	202	1314187	44.710	ng	99
81) Benzo(a)anthracene	21.375	228	829681	28.300	ng	97
83) Chrysene	21.422	228	769224m	27.636	ng	
87) Indeno(1,2,3-cd)pyrene	26.333	276	511752	13.849	ng	# 96
88) Benzo(b)fluoranthene	23.074	252	1028928	33.819	ng	97
89) Benzo(k)fluoranthene	23.116	252	307288m	10.573	ng	
90) Benzo(a)pyrene	23.698	252	775857	28.660	ng	96
91) Dibenzo(a,h)anthracene	26.351	278	141240	4.647	ng	# 89
92) Benzo(g,h,i)perylene	27.109	276	496297	16.097	ng	99

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

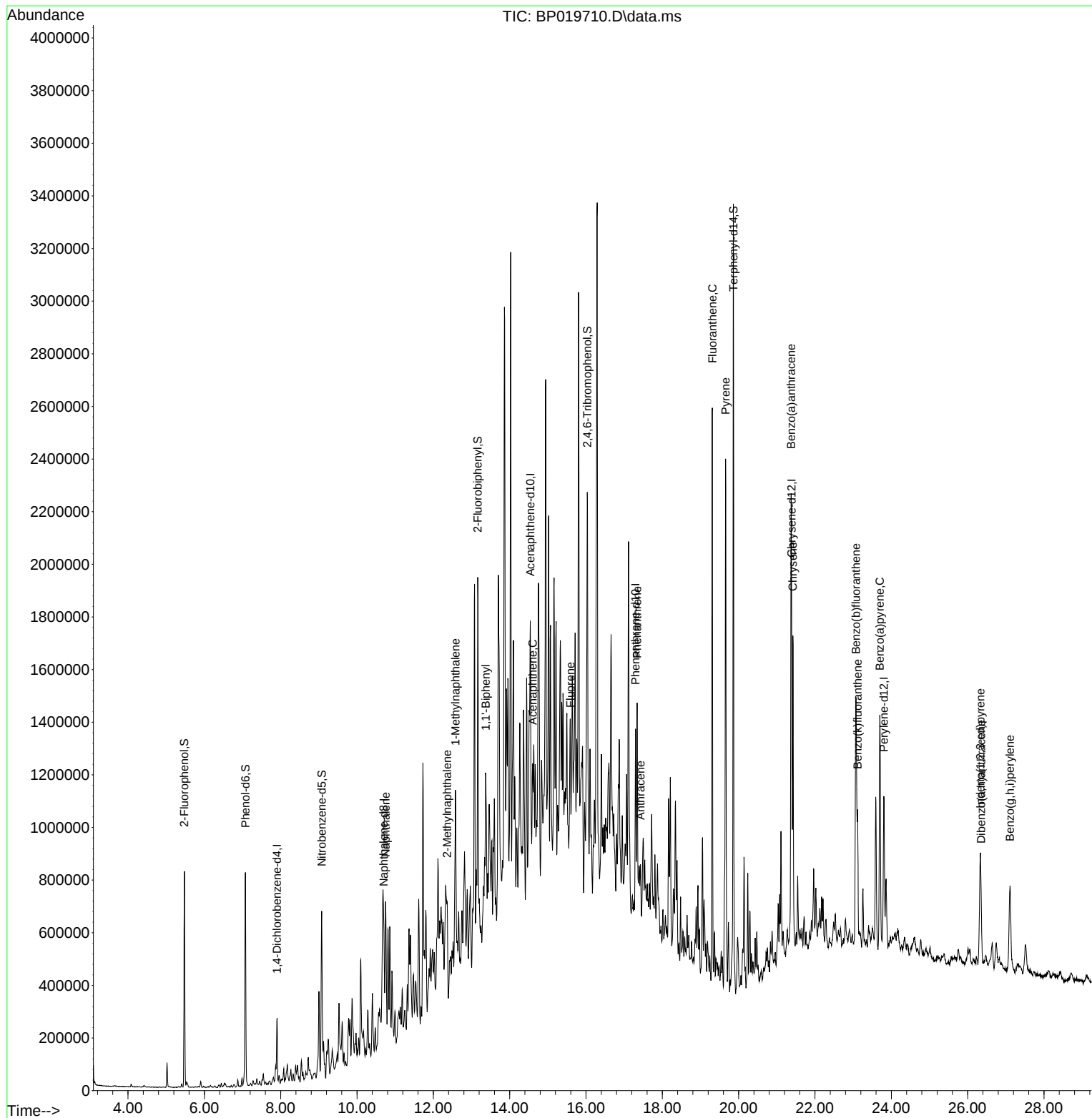
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021424\
Data File : BP019710.D
Acq On : 14 Feb 2024 20:02
Operator : MA/JU
Sample : P1464-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

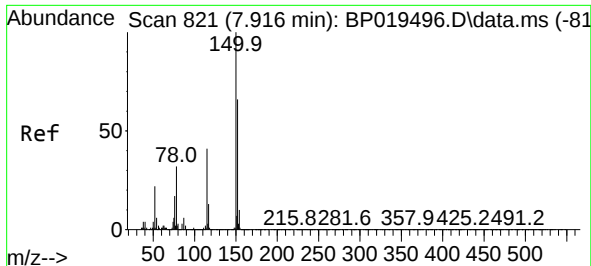
Instrument :
BNA_P
ClientSampleId :
PN-1(SOUTH-AREA)

Quant Time: Feb 14 23:27:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP013124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 01 00:51:48 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024





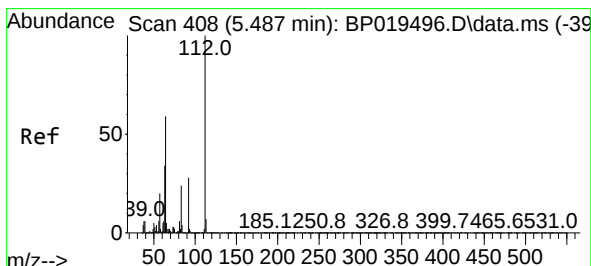
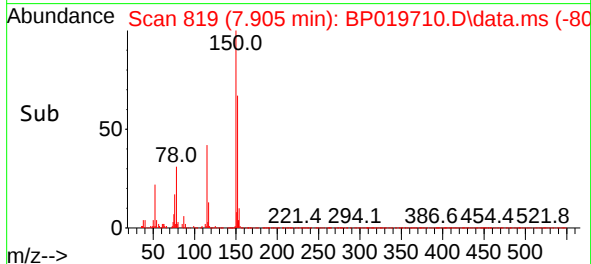
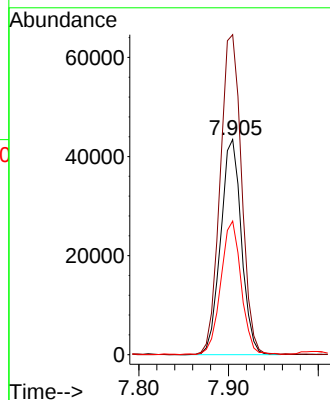
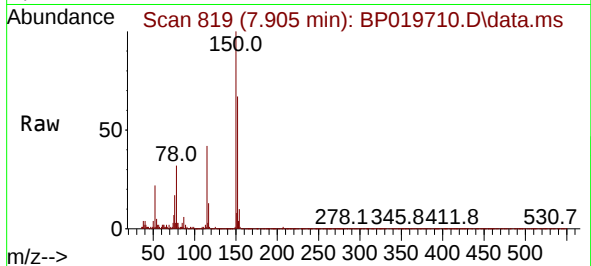
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.905 min Scan# 81
Delta R.T. -0.011 min
Lab File: BP019710.D
Acq: 14 Feb 2024 20:02

Instrument :
BNA_P
ClientSampleId :
PN-1(SOUTH-AREA)

Tgt Ion:152 Resp: 6963
Ion Ratio Lower Upper
152 100
150 148.7 121.8 182.8
115 62.1 49.9 74.9

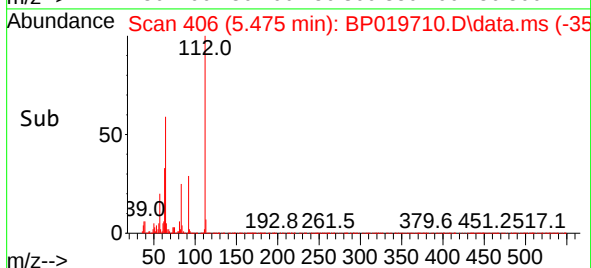
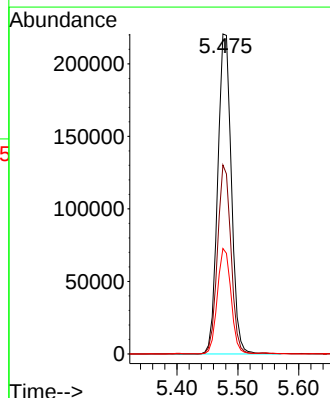
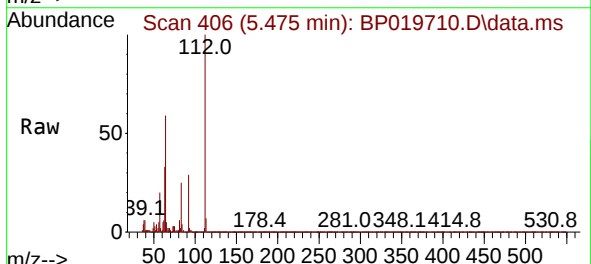
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024



#5
2-Fluorophenol
Concen: 79.373 ng
RT: 5.475 min Scan# 406
Delta R.T. -0.011 min
Lab File: BP019710.D
Acq: 14 Feb 2024 20:02

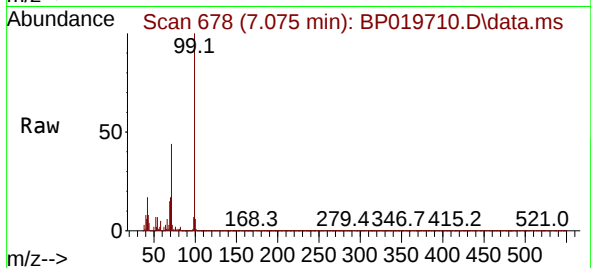
Tgt Ion:112 Resp: 342875
Ion Ratio Lower Upper
112 100
64 59.0 47.4 71.0
63 33.0 27.0 40.6





#7
Phenol-d6
Concen: 77.473 ng
RT: 7.075 min Scan# 61
Delta R.T. -0.011 min
Lab File: BP019710.D
Acq: 14 Feb 2024 20:02

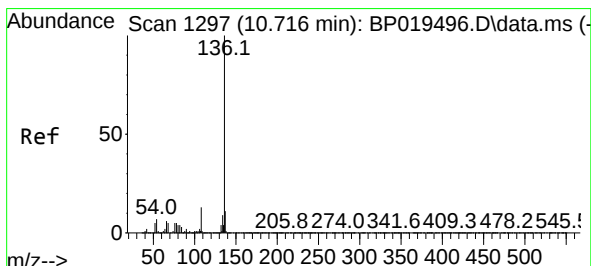
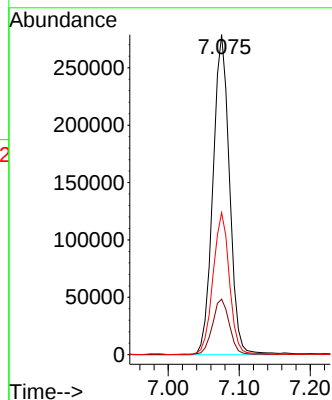
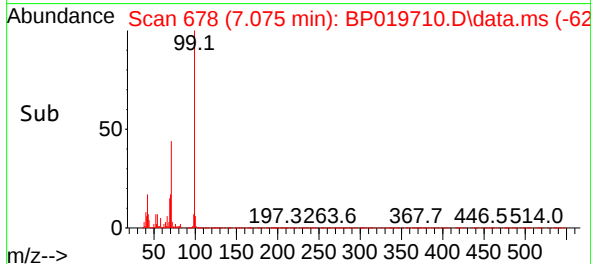
Instrument :
BNA_P
ClientSampleId :
PN-1(SOUTH-AREA)



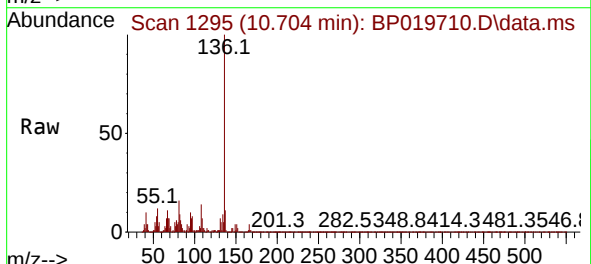
Tgt Ion: 99 Resp: 45125
Ion Ratio Lower Upper
99 100
42 17.3 14.7 22.1
71 44.3 34.8 52.2

Manual Integrations
APPROVED

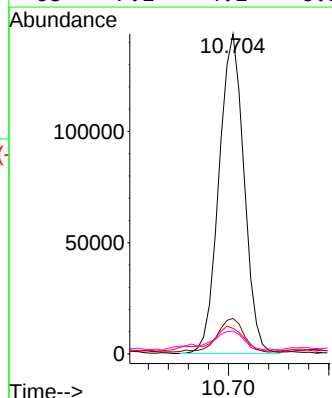
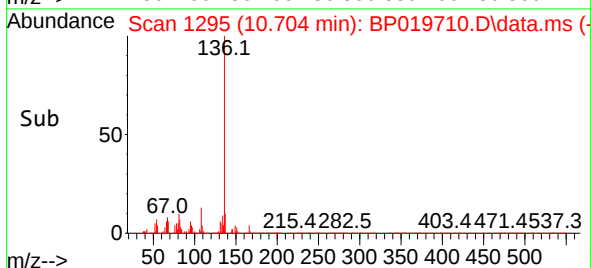
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024

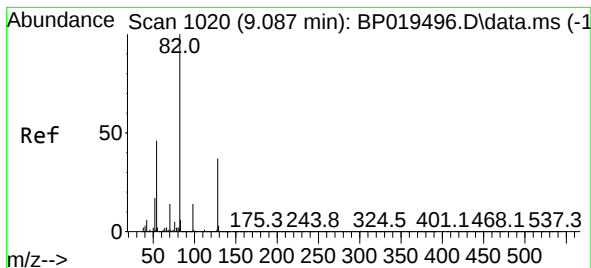


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.704 min Scan# 1295
Delta R.T. -0.011 min
Lab File: BP019710.D
Acq: 14 Feb 2024 20:02



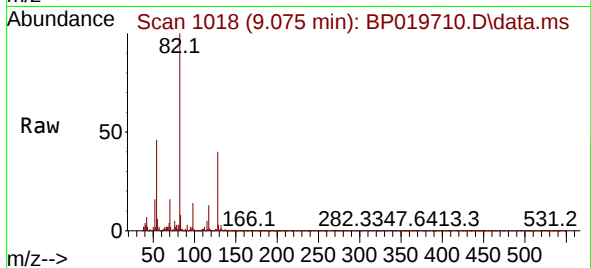
Tgt Ion:136 Resp: 248353
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 8.0 5.3 7.9#
68 7.1 4.1 6.1#





#23
Nitrobenzene-d5
Concen: 55.472 ng
RT: 9.075 min Scan# 1018
Delta R.T. -0.011 min
Lab File: BP019710.D
Acq: 14 Feb 2024 20:02

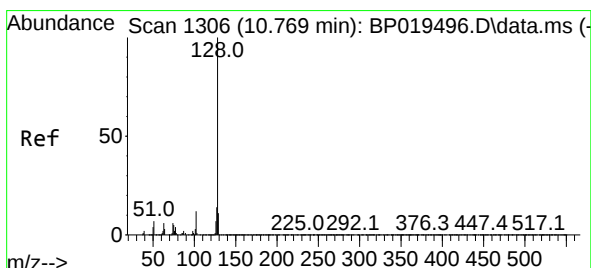
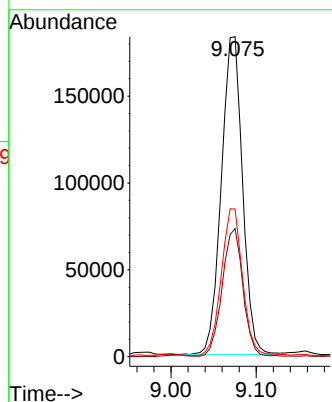
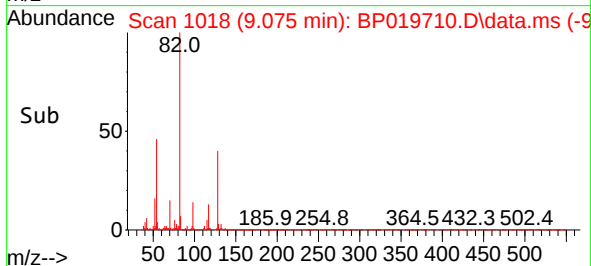
Instrument :
BNA_P
ClientSampleId :
PN-1(SOUTH-AREA)



Tgt Ion: 82 Resp: 317939
Ion Ratio Lower Upper
82 100
128 40.1 29.7 44.5
54 46.1 36.8 55.2

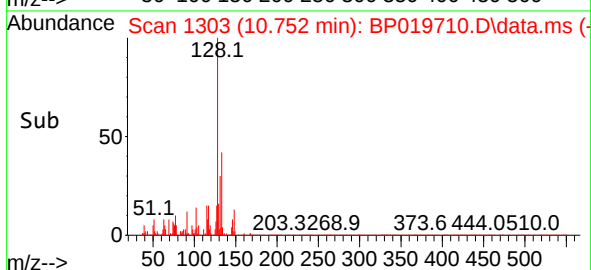
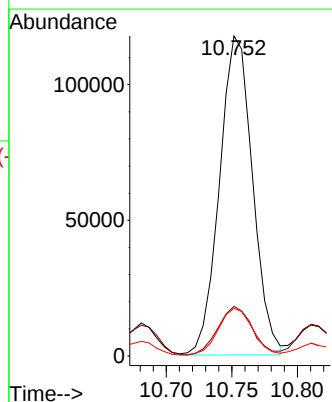
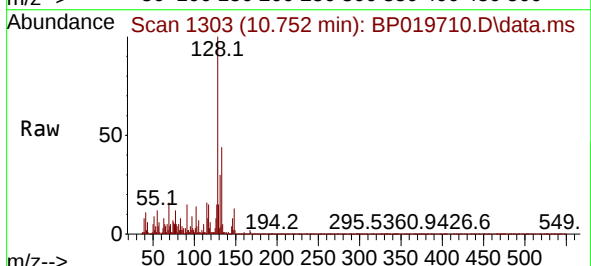
Manual Integrations
APPROVED

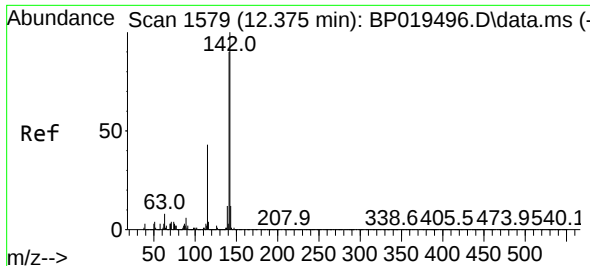
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024



#31
Naphthalene
Concen: 15.145 ng
RT: 10.752 min Scan# 1303
Delta R.T. -0.017 min
Lab File: BP019710.D
Acq: 14 Feb 2024 20:02

Tgt Ion:128 Resp: 206288
Ion Ratio Lower Upper
128 100
129 15.5 8.6 13.0#
127 14.9 10.8 16.2





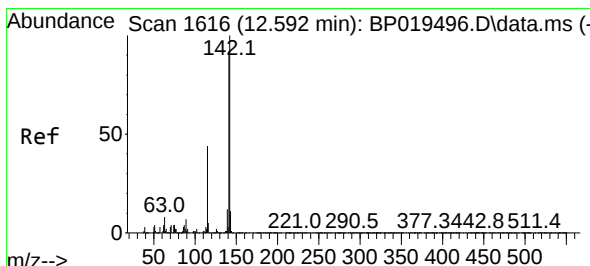
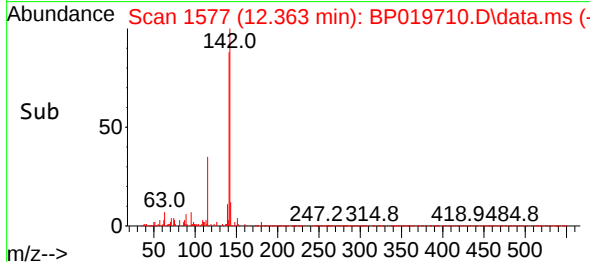
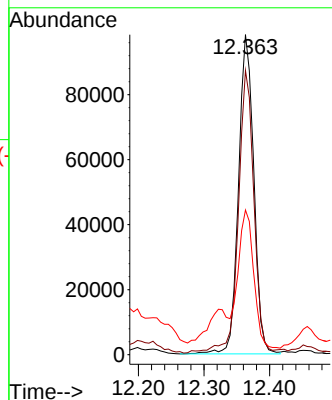
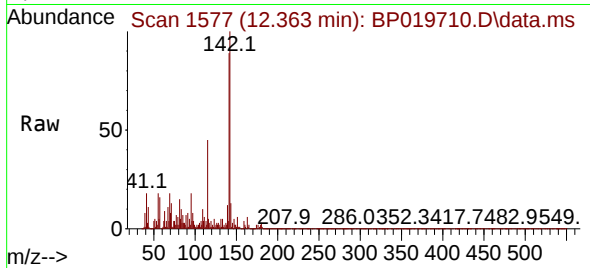
#37
2-Methylnaphthalene
Concen: 16.932 ng
RT: 12.363 min Scan# 1577
Delta R.T. -0.011 min
Lab File: BP019710.D
Acq: 14 Feb 2024 20:02

Instrument :
BNA_P
ClientSampleId :
PN-1(SOUTH-AREA)

Tgt Ion:142 Resp: 159609
Ion Ratio Lower Upper
142 100
141 88.8 72.2 108.4
115 45.2 34.2 51.2

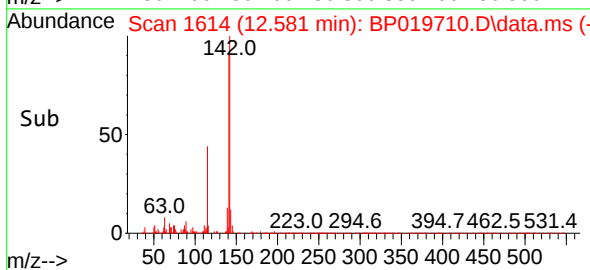
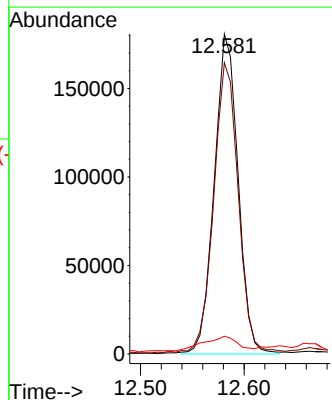
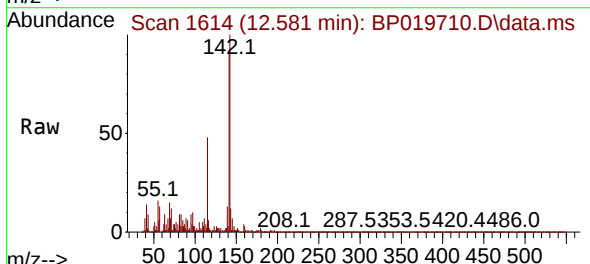
Manual Integrations
APPROVED

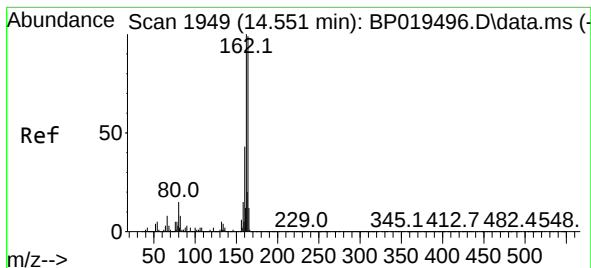
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024



#38
1-Methylnaphthalene
Concen: 31.179 ng m
RT: 12.581 min Scan# 1614
Delta R.T. -0.011 min
Lab File: BP019710.D
Acq: 14 Feb 2024 20:02

Tgt Ion:142 Resp: 288829
Ion Ratio Lower Upper
142 100
141 91.0 74.0 111.0
116 5.6 3.7 5.5#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.540 min Scan# 1947

Delta R.T. -0.011 min

Lab File: BP019710.D

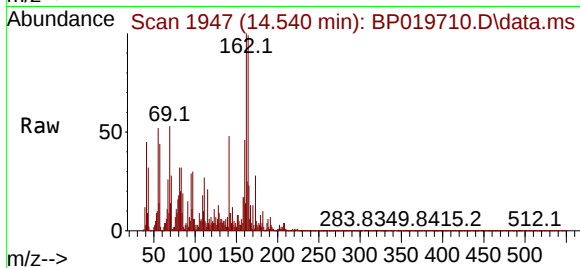
Acq: 14 Feb 2024 20:02

Instrument :

BNA_P

ClientSampleId :

PN-1(SOUTH-AREA)



Tgt Ion:164 Resp: 162950

Ion Ratio Lower Upper

164 100

162 101.2 81.2 121.8

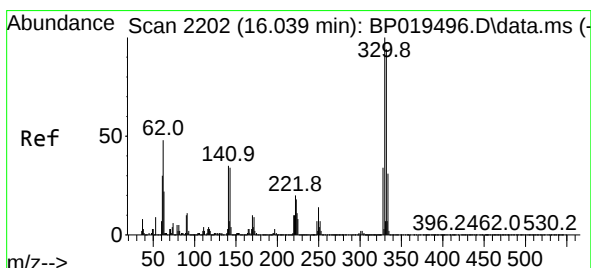
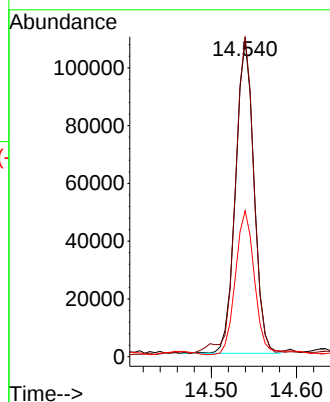
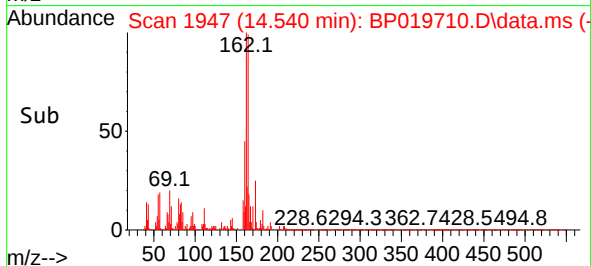
160 46.2 35.1 52.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/15/2024

Supervised By :mohammad ahmed 02/15/2024



#42

2,4,6-Tribromophenol

Concen: 107.332 ng

RT: 16.034 min Scan# 2201

Delta R.T. -0.006 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

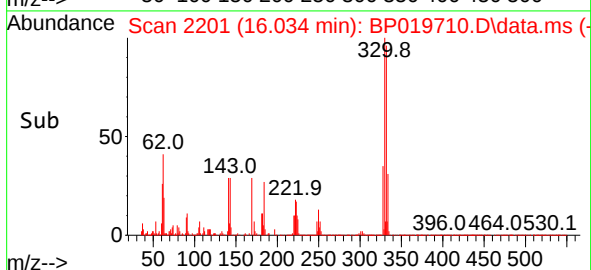
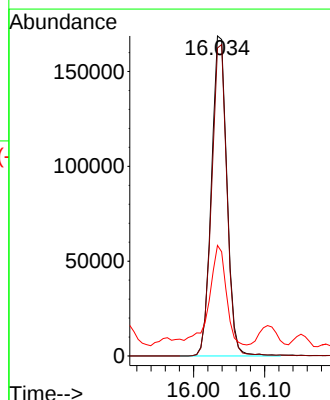
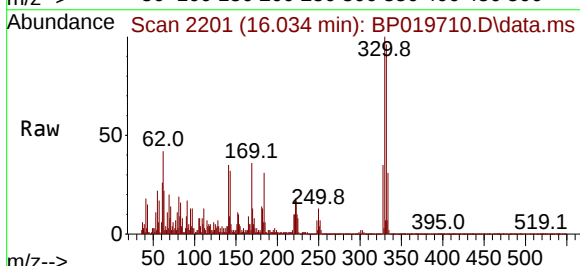
Tgt Ion:330 Resp: 255363

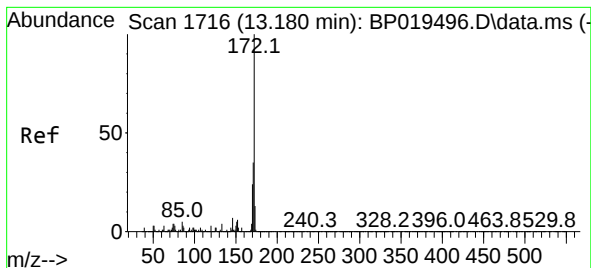
Ion Ratio Lower Upper

330 100

332 96.2 77.2 115.8

141 33.8 27.0 40.4





#45

2-Fluorobiphenyl

Concen: 55.744 ng

RT: 13.163 min Scan# 1716

Delta R.T. -0.017 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

Instrument :

BNA_P

ClientSampleId :

PN-1(SOUTH-AREA)

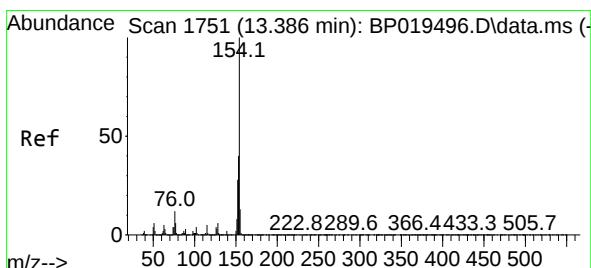
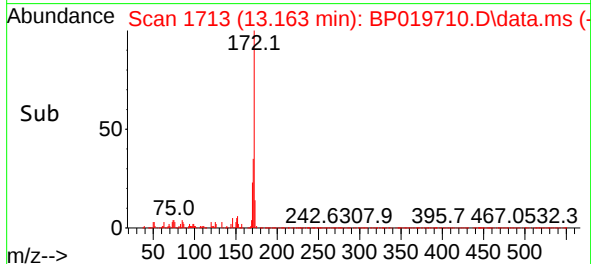
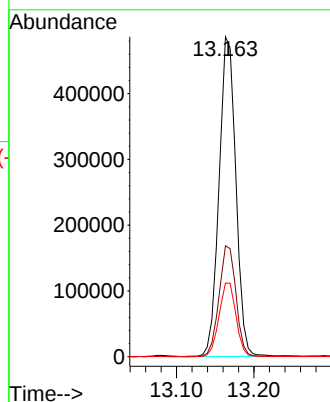
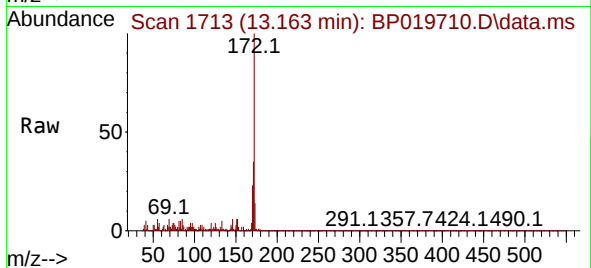
Tgt Ion:172	Resp: 73477
Ion Ratio	Lower Upper
172 100	
171 34.7	28.2 42.4
170 23.0	18.9 28.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/15/2024

Supervised By :mohammad ahmed 02/15/2024



#46

1,1'-Biphenyl

Concen: 2.133 ng

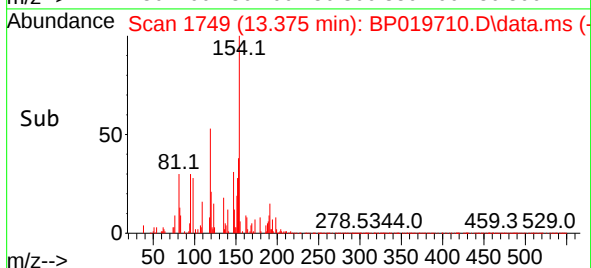
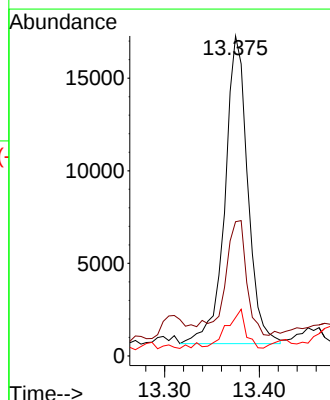
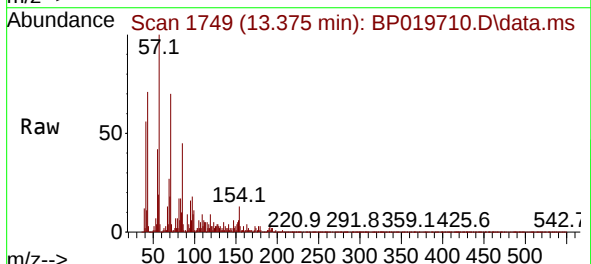
RT: 13.375 min Scan# 1749

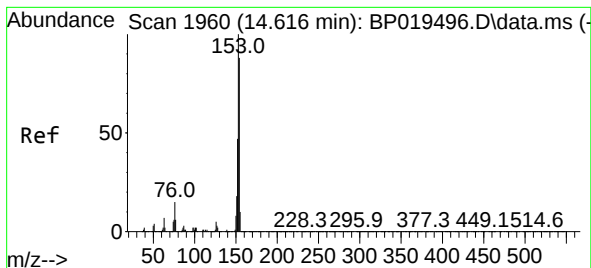
Delta R.T. -0.011 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

Tgt Ion:154	Resp: 27747
Ion Ratio	Lower Upper
154 100	
153 42.0	20.2 60.2
76 12.0	0.0 31.6





#52

Acenaphthene

Concen: 6.585 ng

RT: 14.604 min Scan# 1958

Delta R.T. -0.011 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

Instrument :

BNA_P

ClientSampleId :

PN-1(SOUTH-AREA)

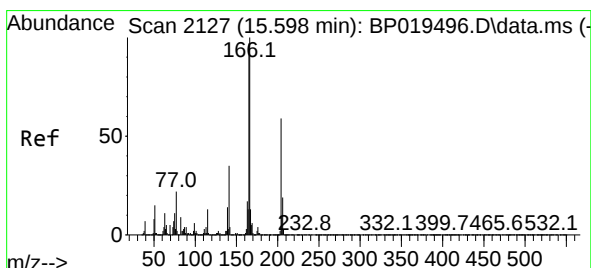
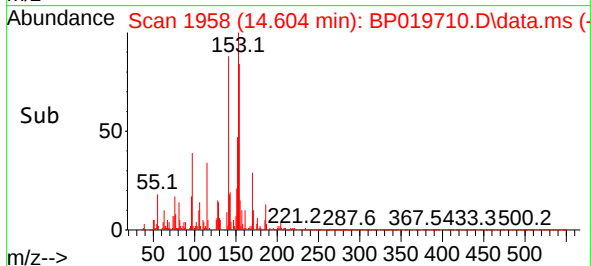
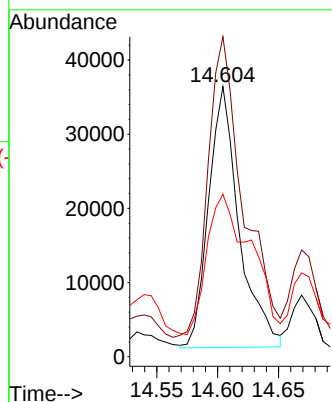
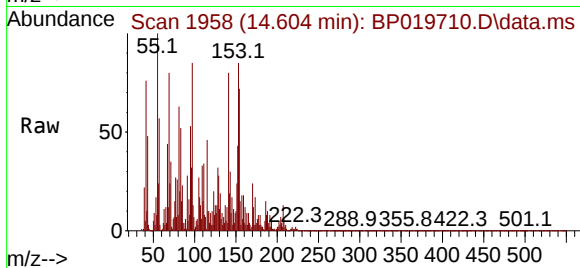
Tgt Ion:	154	Resp:	6121
Ion Ratio	Lower	Upper	
154	100		
153	118.5	90.5	135.7
152	60.1	42.1	63.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/15/2024

Supervised By :mohammad ahmed 02/15/2024



#58

Fluorene

Concen: 6.033 ng

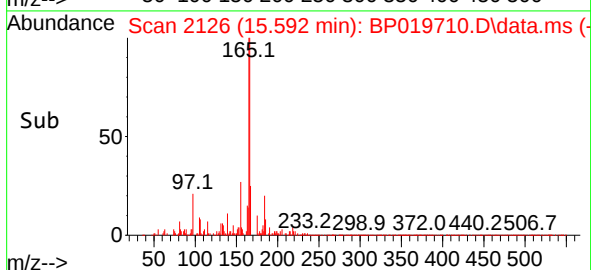
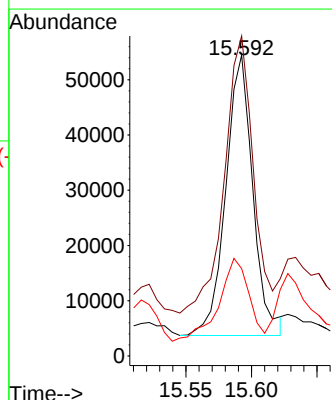
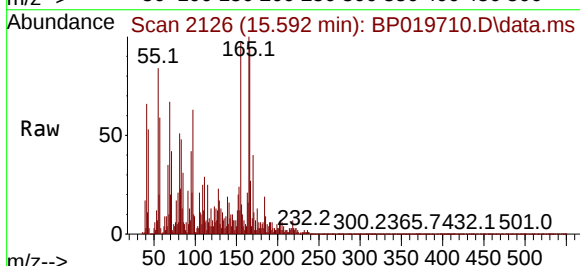
RT: 15.592 min Scan# 2126

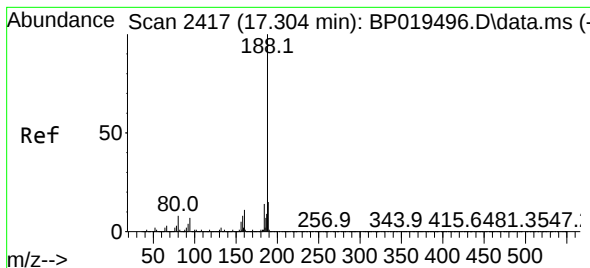
Delta R.T. -0.006 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

Tgt Ion:	166	Resp:	72756
Ion Ratio	Lower	Upper	
166	100		
165	106.3	77.8	116.8
167	29.0	10.7	16.1





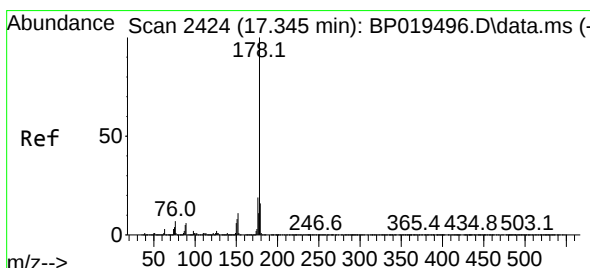
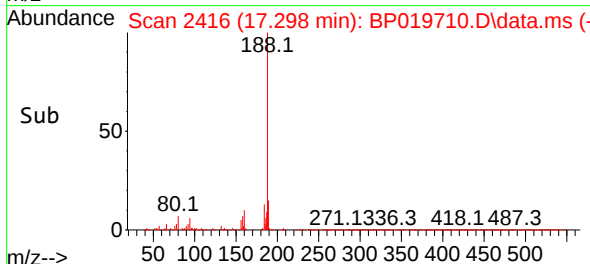
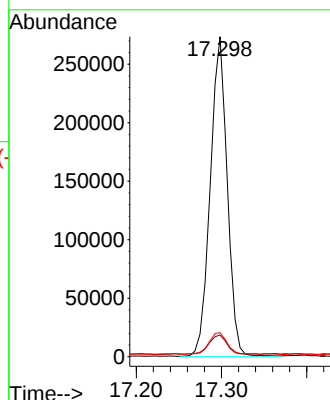
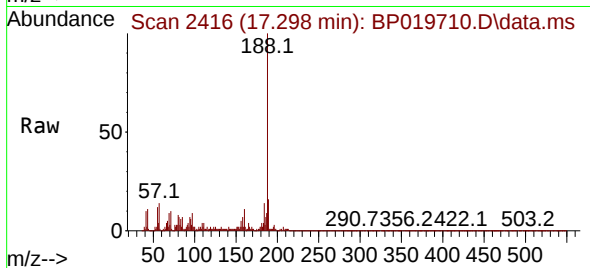
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.298 min Scan# 2416
Delta R.T. -0.006 min
Lab File: BP019710.D
Acq: 14 Feb 2024 20:02

Instrument :
BNA_P
ClientSampleId :
PN-1(SOUTH-AREA)

Tgt Ion:188 Resp: 377662
Ion Ratio Lower Upper
188 100
94 6.8 5.4 8.2
80 7.5 6.3 9.5

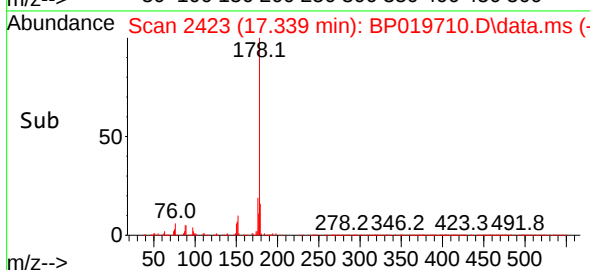
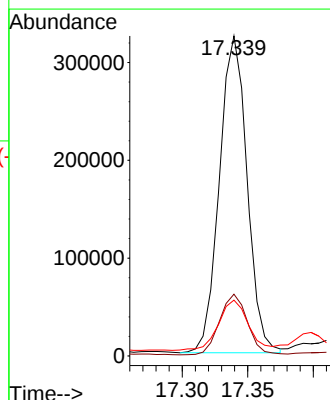
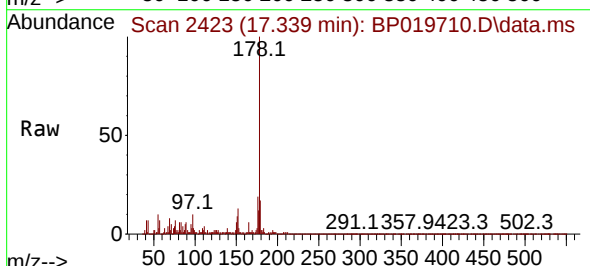
Manual Integrations
APPROVED

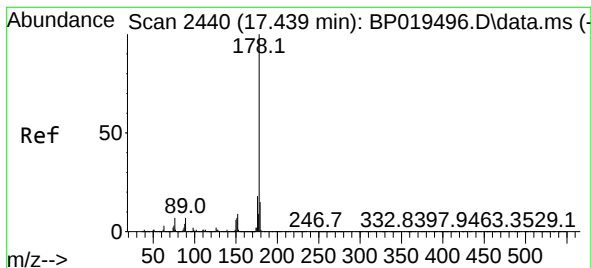
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024



#71
Phenanthrene
Concen: 23.945 ng
RT: 17.339 min Scan# 2423
Delta R.T. -0.006 min
Lab File: BP019710.D
Acq: 14 Feb 2024 20:02

Tgt Ion:178 Resp: 475902
Ion Ratio Lower Upper
178 100
176 19.3 15.5 23.3
179 17.5 12.6 19.0





#72

Anthracene

Concen: 5.960 ng m

RT: 17.428 min Scan# 2440

Delta R.T. -0.011 min

Lab File: BP019710.D

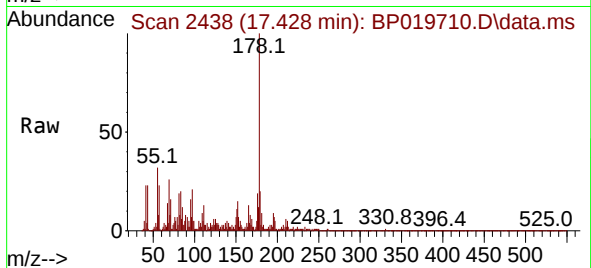
Acq: 14 Feb 2024 20:02

Instrument :

BNA_P

ClientSampleId :

PN-1(SOUTH-AREA)



Tgt Ion:178 Resp: 118158

Ion Ratio Lower Upper

178 100

176 19.2 14.7 22.1

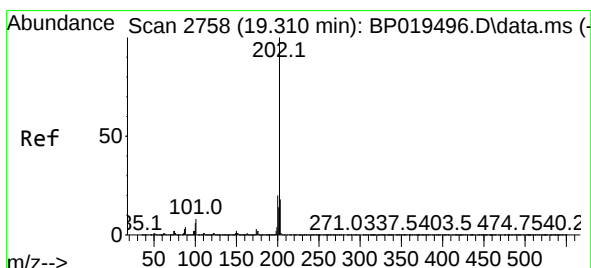
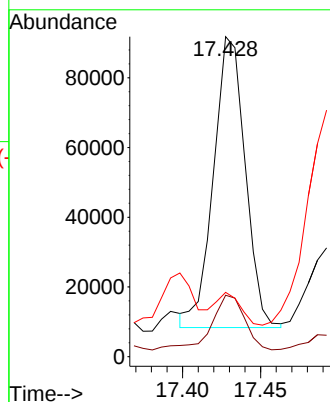
179 20.1 12.2 18.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/15/2024

Supervised By :mohammad ahmed 02/15/2024



#75

Fluoranthene

Concen: 54.764 ng

RT: 19.310 min Scan# 2758

Delta R.T. 0.000 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

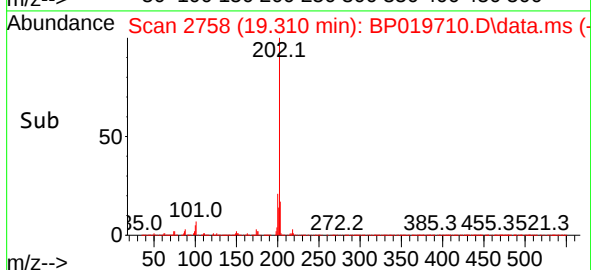
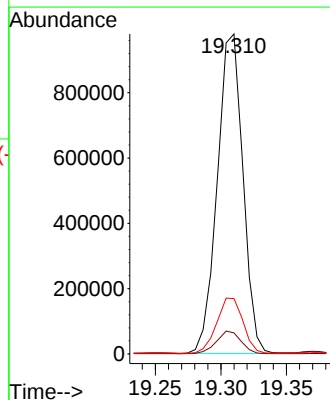
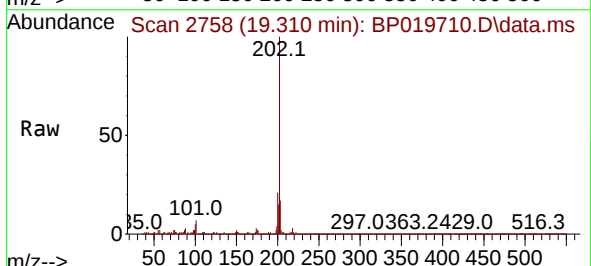
Tgt Ion:202 Resp: 1329633

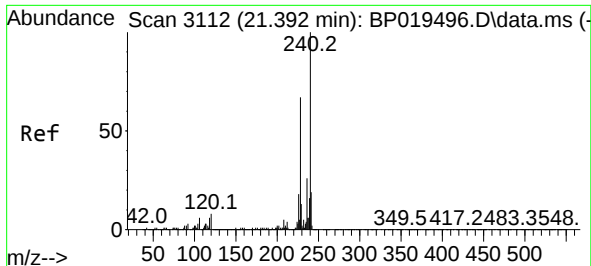
Ion Ratio Lower Upper

202 100

101 6.6 0.0 27.7

203 17.3 0.0 37.5





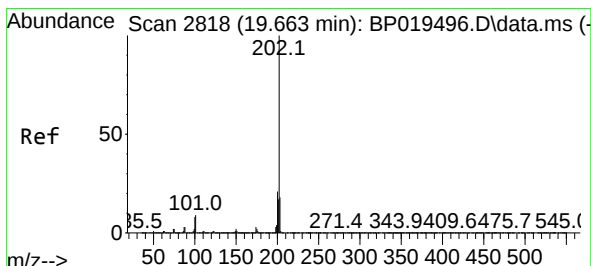
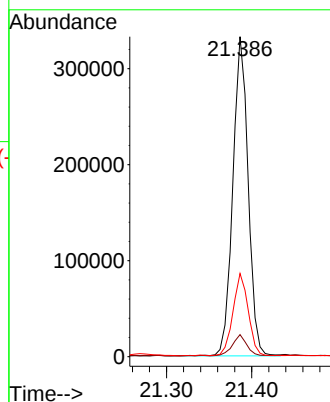
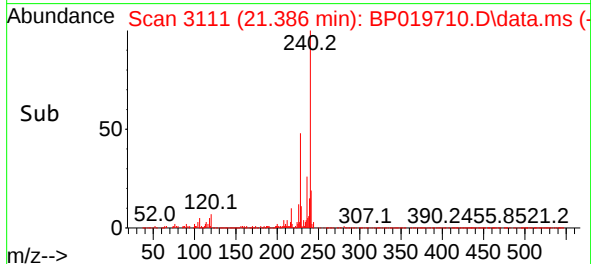
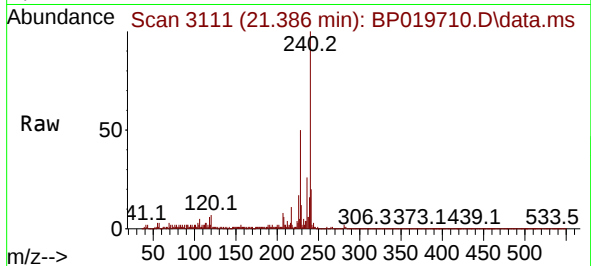
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.386 min Scan# 3111
Delta R.T. -0.006 min
Lab File: BP019710.D
Acq: 14 Feb 2024 20:02

Instrument :
BNA_P
ClientSampleId :
PN-1(SOUTH-AREA)

Tgt Ion:240 Resp: 41648
Ion Ratio Lower Upper
240 100
120 6.9 6.1 9.1
236 26.0 20.7 31.1

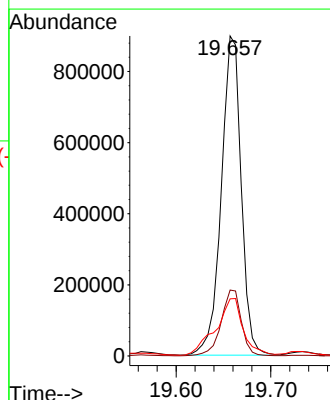
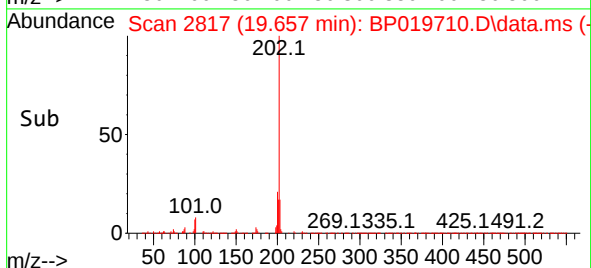
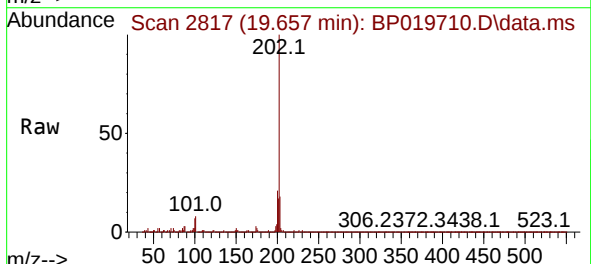
Manual Integrations
APPROVED

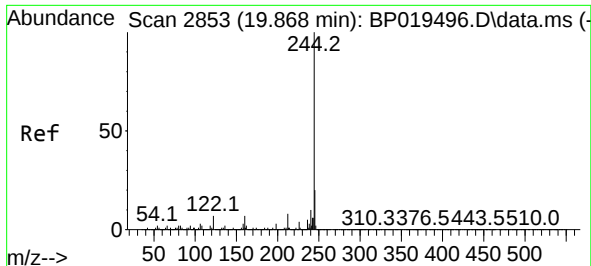
Reviewed By :Yogesh Patel 02/15/2024
Supervised By :mohammad ahmed 02/15/2024



#78
Pyrene
Concen: 44.710 ng
RT: 19.657 min Scan# 2817
Delta R.T. -0.006 min
Lab File: BP019710.D
Acq: 14 Feb 2024 20:02

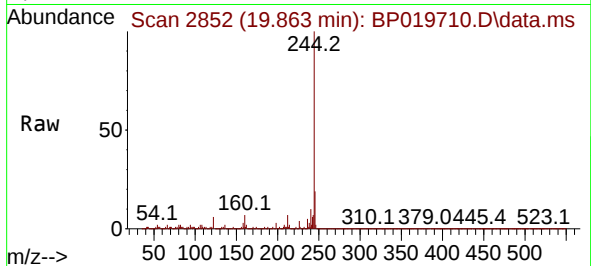
Tgt Ion:202 Resp: 1314187
Ion Ratio Lower Upper
202 100
200 20.6 16.9 25.3
203 17.8 14.2 21.2





#79
 Terphenyl-d14
 Concen: 58.810 ng
 RT: 19.863 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BP019710.D
 Acq: 14 Feb 2024 20:02

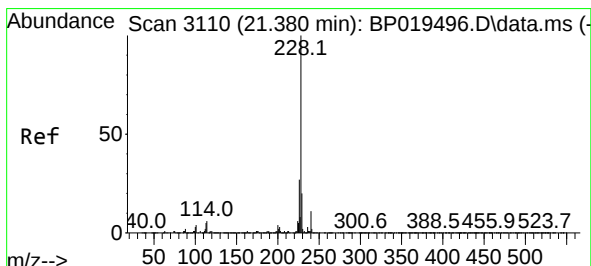
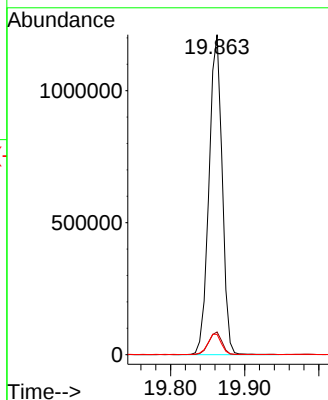
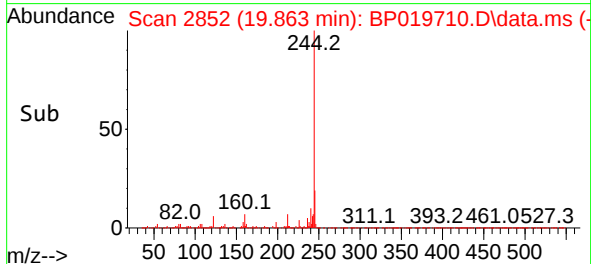
Instrument :
 BNA_P
 ClientSampleId :
 PN-1(SOUTH-AREA)



Tgt Ion:244 Resp: 148936
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.1 9.1
 122 6.4 5.9 8.9

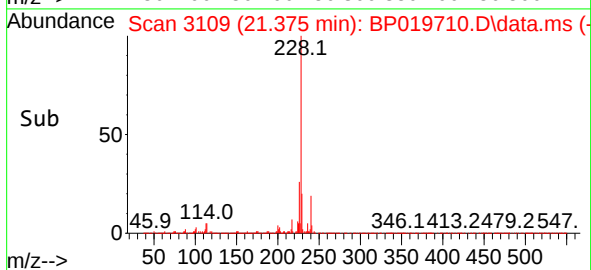
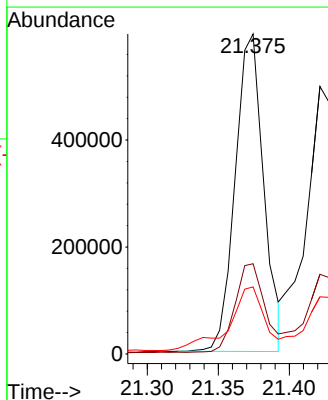
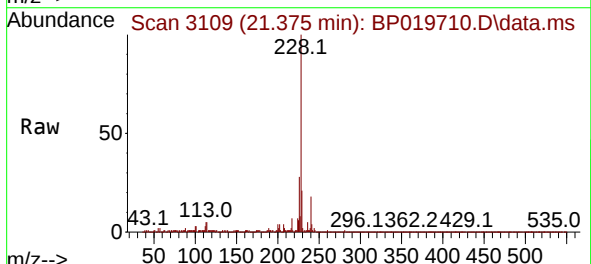
Manual Integrations
 APPROVED

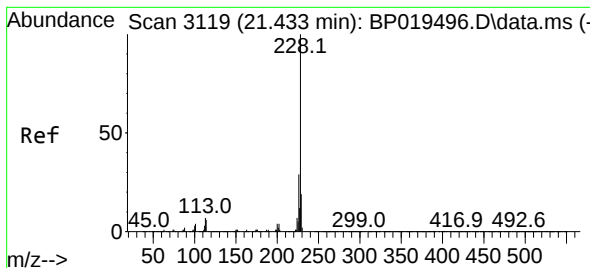
Reviewed By :Yogesh Patel 02/15/2024
 Supervised By :mohammad ahmed 02/15/2024



#81
 Benzo(a)anthracene
 Concen: 28.300 ng
 RT: 21.375 min Scan# 3109
 Delta R.T. -0.006 min
 Lab File: BP019710.D
 Acq: 14 Feb 2024 20:02

Tgt Ion:228 Resp: 829681
 Ion Ratio Lower Upper
 228 100
 226 28.2 21.7 32.5
 229 20.9 15.6 23.4





#83

Chrysene

Concen: 27.636 ng m

RT: 21.422 min Scan# 3119

Delta R.T. -0.011 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

Instrument :

BNA_P

ClientSampleId :

PN-1(SOUTH-AREA)

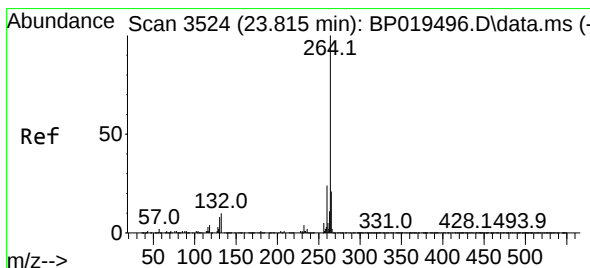
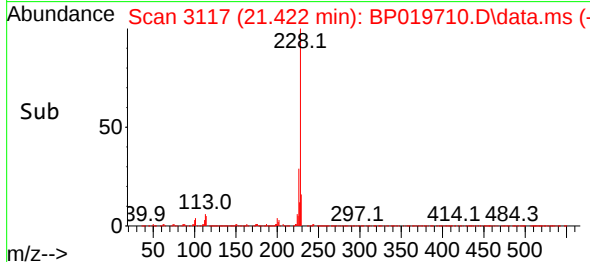
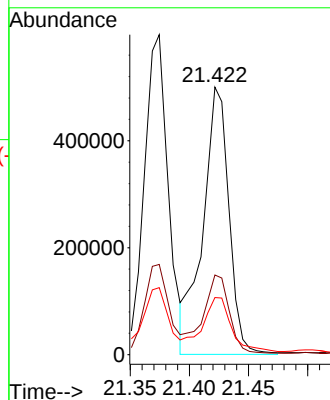
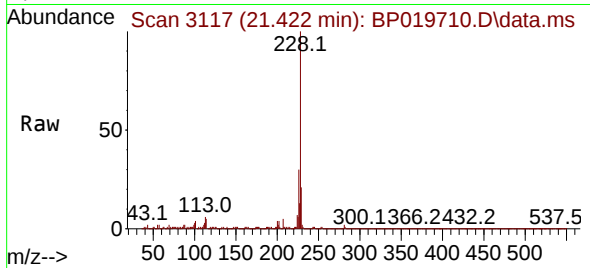
Tgt Ion:228	Resp: 769224
Ion Ratio	Lower Upper
228 100	
226 29.8	23.4 35.2
229 21.3	15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/15/2024

Supervised By :mohammad ahmed 02/15/2024



#86

Perylene-d12

Concen: 20.000 ng

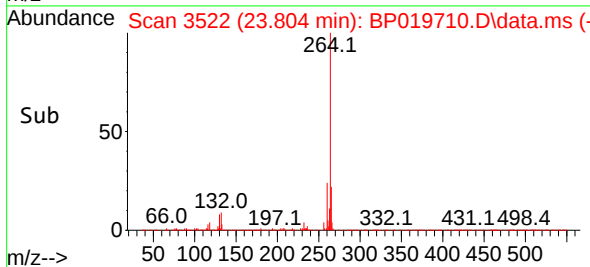
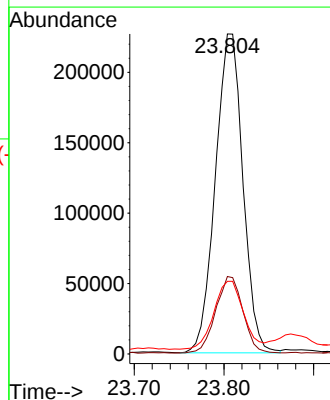
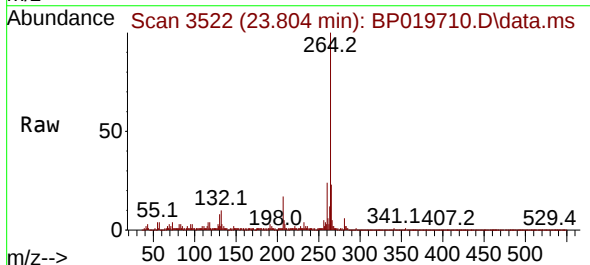
RT: 23.804 min Scan# 3522

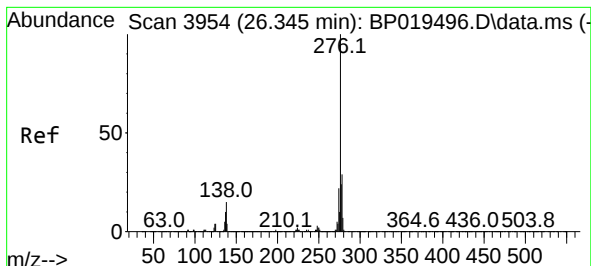
Delta R.T. -0.011 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

Tgt Ion:264	Resp: 482734
Ion Ratio	Lower Upper
264 100	
260 24.2	19.2 28.8
265 22.7	17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 13.849 ng

RT: 26.333 min Scan# 3952

Delta R.T. -0.011 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

Instrument :

BNA_P

ClientSampleId :

PN-1(SOUTH-AREA)

Tgt Ion:276 Resp: 51175

Ion Ratio Lower Upper

276 100

138 12.0 13.1 19.7

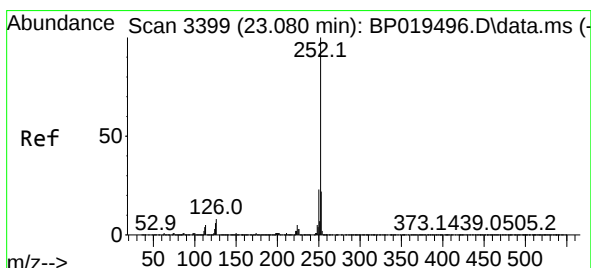
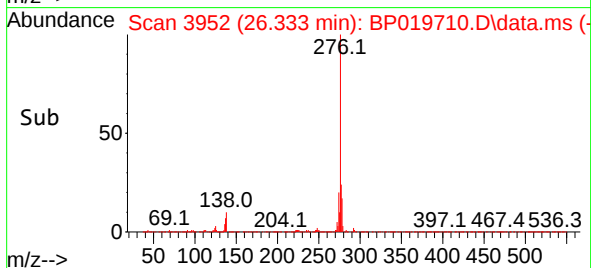
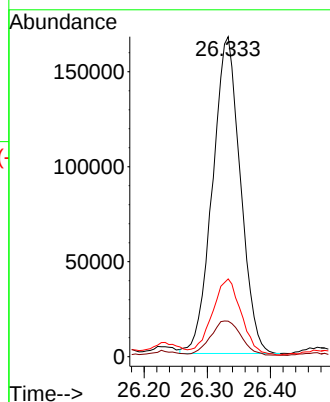
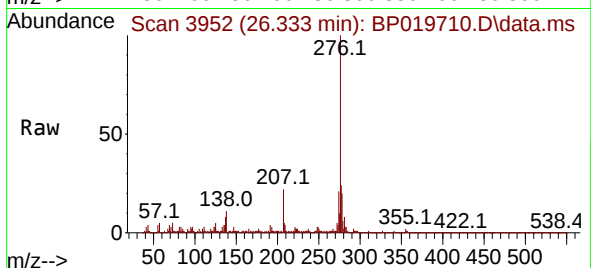
277 25.2 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/15/2024

Supervised By :mohammad ahmed 02/15/2024



#88

Benzo(b)fluoranthene

Concen: 33.819 ng

RT: 23.074 min Scan# 3398

Delta R.T. -0.006 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

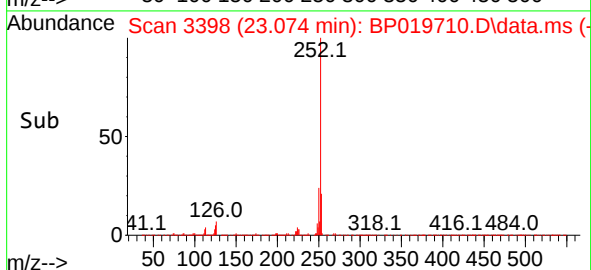
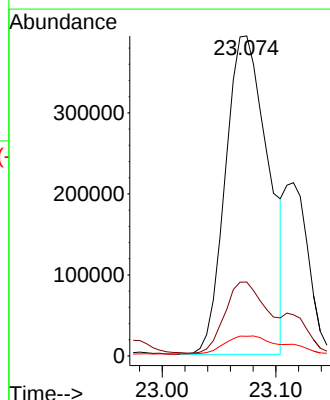
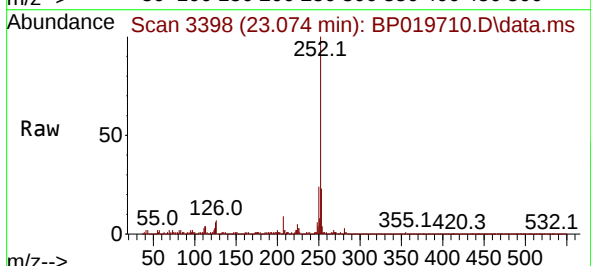
Tgt Ion:252 Resp: 1028928

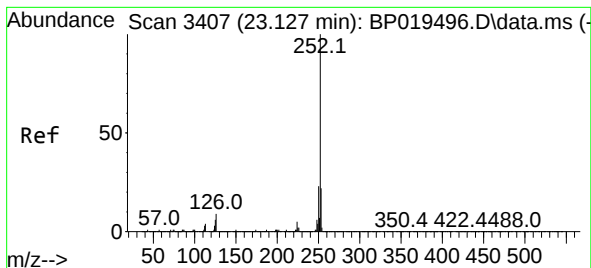
Ion Ratio Lower Upper

252 100

253 23.1 17.3 25.9

125 6.2 4.9 7.3





#89

Benzo(k)fluoranthene

Concen: 10.573 ng m

RT: 23.116 min Scan# 34

Delta R.T. -0.011 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

Instrument :

BNA_P

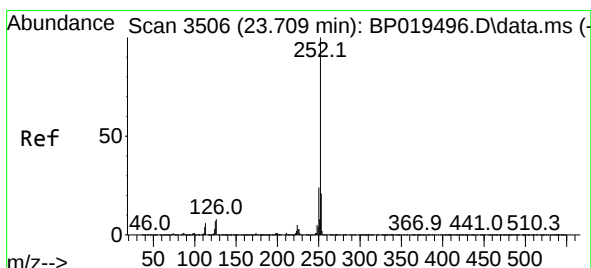
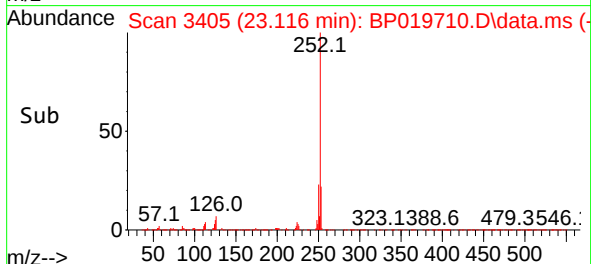
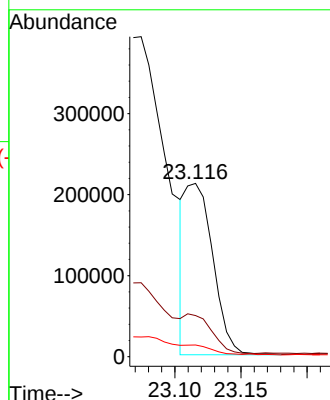
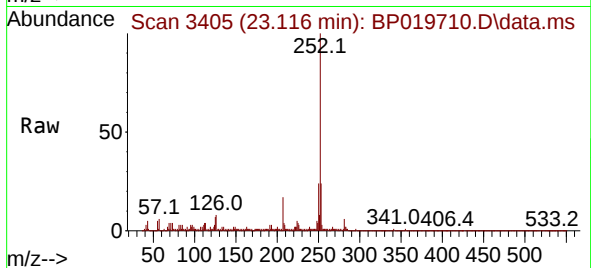
ClientSampleId :

PN-1(SOUTH-AREA)

Tgt Ion:252 Resp: 307288
 Ion Ratio Lower Upper
 252 100
 253 23.7 17.1 25.7
 125 6.8 5.0 7.6

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/15/2024
 Supervised By :mohammad ahmed 02/15/2024



#90

Benzo(a)pyrene

Concen: 28.660 ng

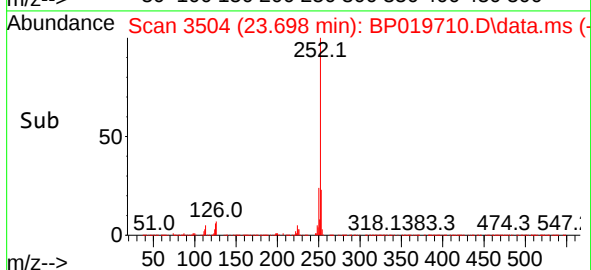
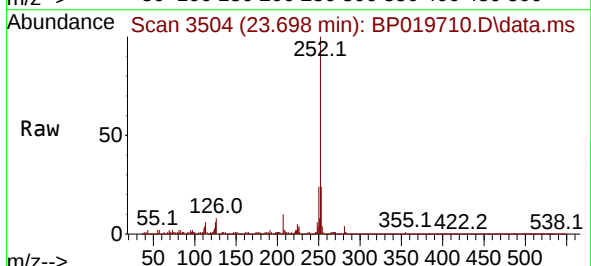
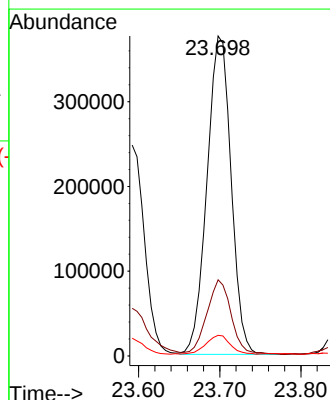
RT: 23.698 min Scan# 3504

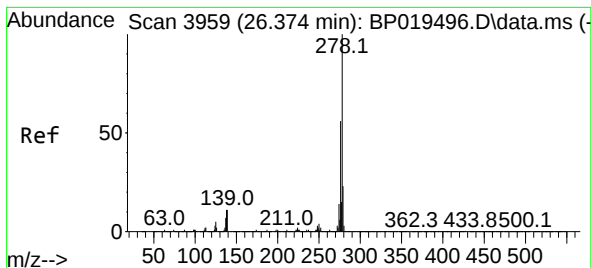
Delta R.T. -0.011 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

Tgt Ion:252 Resp: 775857
 Ion Ratio Lower Upper
 252 100
 253 23.8 17.1 25.7
 125 6.5 5.6 8.4





#91

Dibenzo(a,h)anthracene

Concen: 4.647 ng

RT: 26.351 min Scan# 3955

Delta R.T. -0.023 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

Instrument :

BNA_P

ClientSampleId :

PN-1(SOUTH-AREA)

Tgt Ion:278 Resp: 141240

Ion Ratio Lower Upper

278 100

139 13.1 8.6 12.8

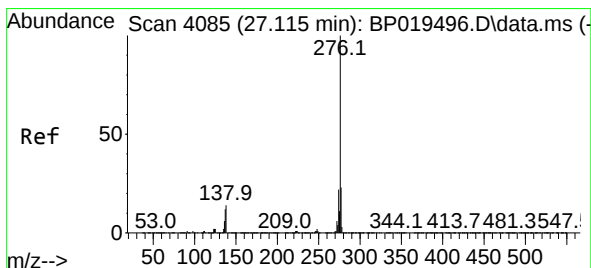
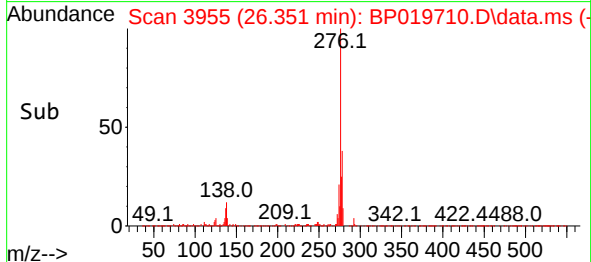
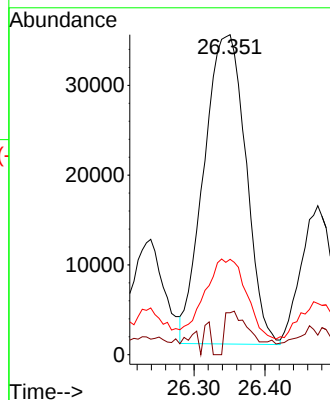
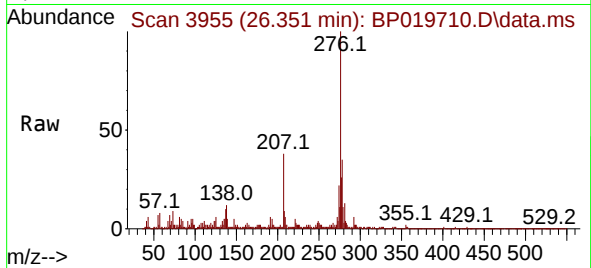
279 29.8 18.5 27.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/15/2024

Supervised By :mohammad ahmed 02/15/2024



#92

Benzo(g,h,i)perylene

Concen: 16.097 ng

RT: 27.109 min Scan# 4084

Delta R.T. -0.006 min

Lab File: BP019710.D

Acq: 14 Feb 2024 20:02

Tgt Ion:276 Resp: 496297

Ion Ratio Lower Upper

276 100

277 23.0 18.6 28.0

138 12.8 10.9 16.3

