

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052623\
 Data File : BP015326.D
 Acq On : 27 May 2023 00:42
 Operator : CG/JU
 Sample : 02922-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ORA-1618

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/30/2023
 Supervised By : Jagrut Upadhyay 05/31/2023

Quant Time: May 29 02:10:25 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP052423.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 25 01:41:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.110	152	187379	20.000	ng	0.00
21) Naphthalene-d8	10.940	136	717727	20.000	ng	0.00
39) Acenaphthene-d10	14.751	164	431482	20.000	ng	0.00
64) Phenanthrene-d10	17.504	188	938482	20.000	ng	0.00
76) Chrysene-d12	21.586	240	822163	20.000	ng	0.00
86) Perylene-d12	24.151	264	996376	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.640	112	926523	81.935	ng	0.00
7) Phenol-d6	7.269	99	1155437	77.969	ng	0.00
23) Nitrobenzene-d5	9.287	82	740372	50.367	ng	0.00
42) 2,4,6-Tribromophenol	16.239	330	500029	85.277	ng	0.00
45) 2-Fluorobiphenyl	13.375	172	1574830	49.001	ng	0.00
79) Terphenyl-d14	20.039	244	2260739	51.722	ng	0.00
Target Compounds						
						Qvalue
49) Acenaphthylene	14.475	152	491233	11.904	ng	99
52) Acenaphthene	14.816	154	99624	4.053	ng	99
55) Dibenzofuran	15.145	168	98905	2.460	ng	# 91
58) Fluorene	15.798	166	245743	7.914	ng	98
71) Phenanthrene	17.551	178	1822787	36.442	ng	100
72) Anthracene	17.639	178	905875	18.084	ng	100
75) Fluoranthene	19.504	202	2157356	36.921	ng	99
78) Pyrene	19.857	202	2418847	41.119	ng	99
81) Benzo(a)anthracene	21.569	228	1002050	17.541	ng	95
83) Chrysene	21.627	228	1033329	18.864	ng	95
84) Bis(2-ethylhexyl)phtha...	21.463	149	95322	2.596	ng	# 89
87) Indeno(1,2,3-cd)pyrene	26.862	276	536744	7.432	ng	95
88) Benzo(b)fluoranthene	23.363	252	1069062	17.647	ng	# 91
89) Benzo(k)fluoranthene	23.404	252	290449m	4.761	ng	
90) Benzo(a)pyrene	24.033	252	928007	15.867	ng	# 94
91) Dibenzo(a,h)anthracene	26.868	278	167643	2.827	ng	# 64
92) Benzo(g,h,i)perylene	27.709	276	635006	10.537	ng	98

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

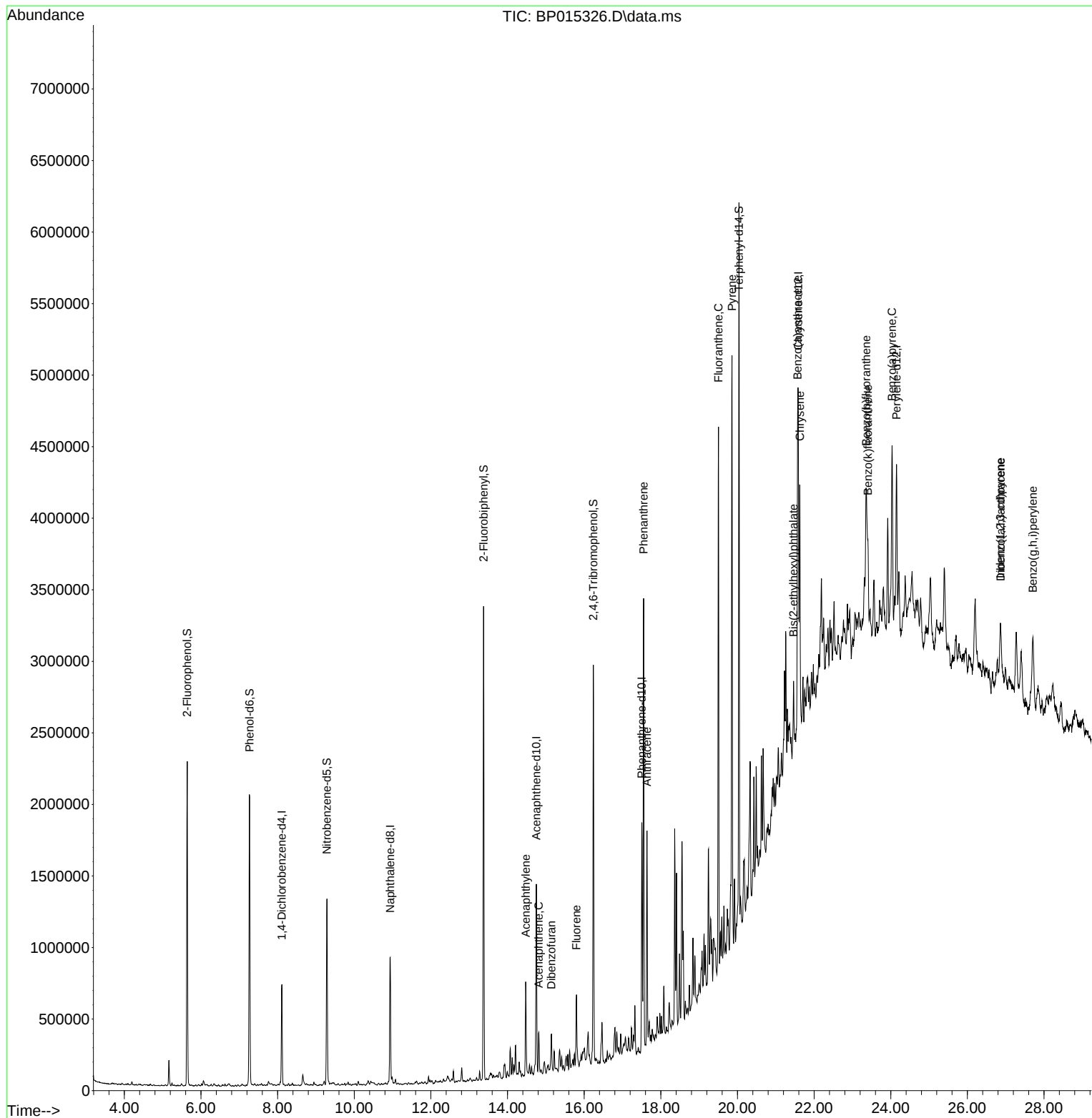
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052623\
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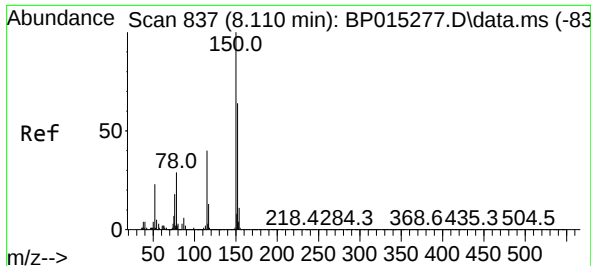
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Quant Time: May 29 02:10:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP052423.M
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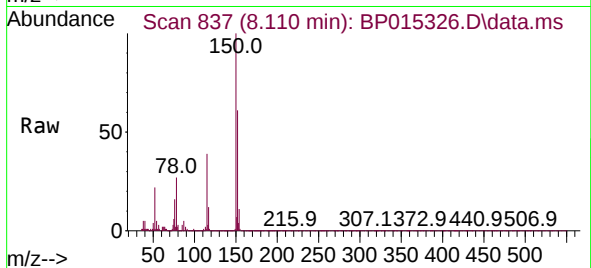
Reviewed By : Christian Giraldo 05/30/2023
Supervised By : Jagrut Upadhyay 05/31/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.110 min Scan# 81
Delta R.T. 0.000 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

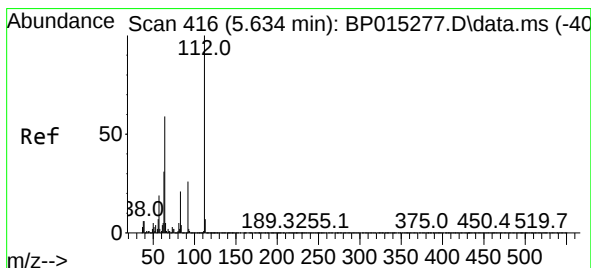
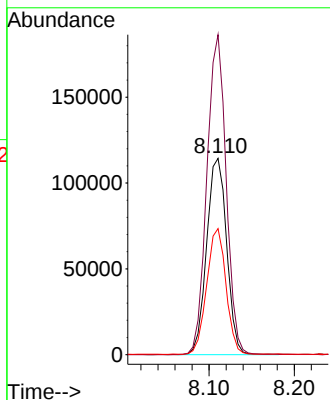
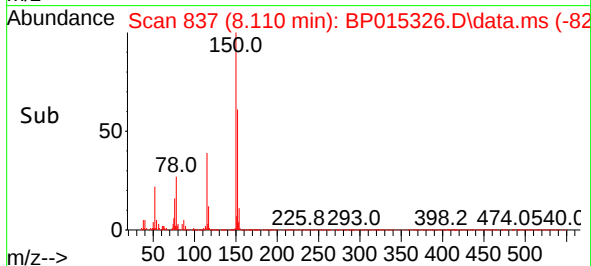
Instrument :
BNA_P
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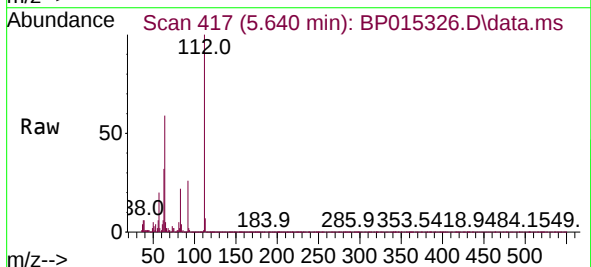
Tgt Ion:152 Resp: 187379
Ion Ratio Lower Upper
152 100
150 162.9 124.2 186.2
115 64.2 49.1 73.7

Manual Integrations
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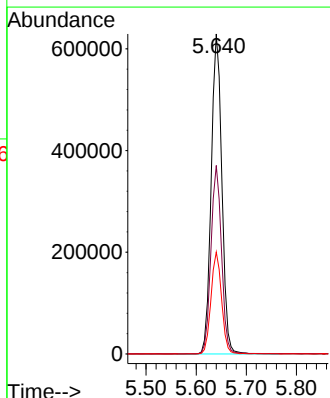
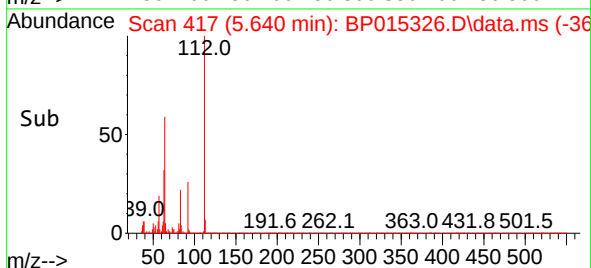
Reviewed By :Christian Giraldo 05/30/2023
Supervised By :Jagrut Upadhyay 05/31/2023

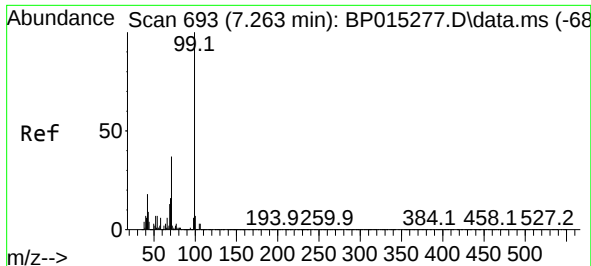


#5
2-Fluorophenol
Concen: 81.935 ng
RT: 5.640 min Scan# 417
Delta R.T. 0.006 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42



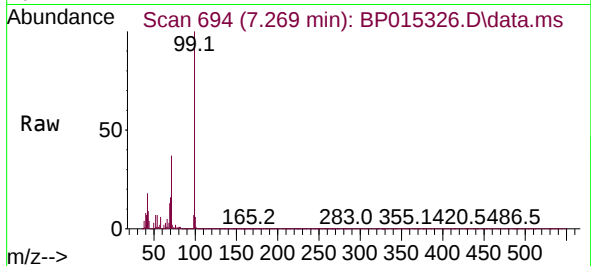
Tgt Ion:112 Resp: 926523
Ion Ratio Lower Upper
112 100
64 58.9 47.2 70.8
63 31.9 24.6 37.0





#7
Phenol-d6
Concen: 77.969 ng
RT: 7.269 min Scan# 693
Delta R.T. 0.006 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

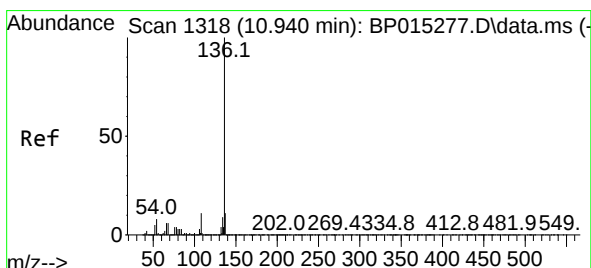
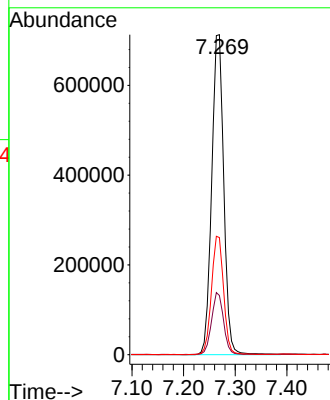
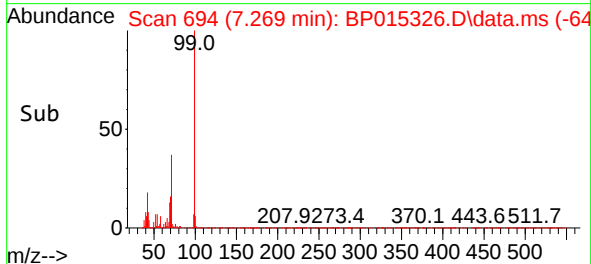
Instrument :
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ORA-1618



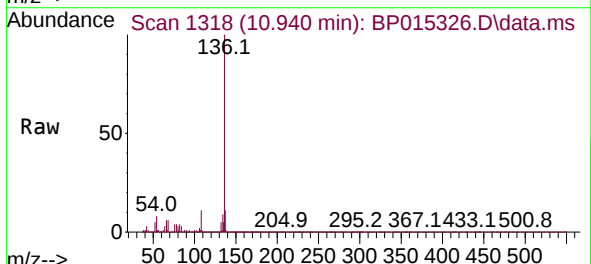
Tgt Ion: 99 Resp: 115543
Ion Ratio Lower Upper
99 100
42 18.5 14.6 22.0
71 36.6 29.4 44.2

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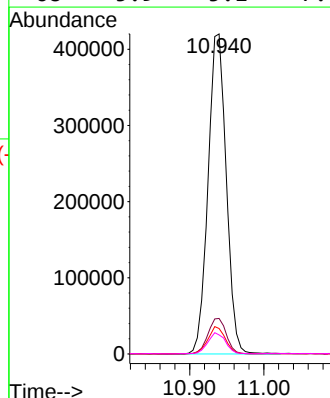
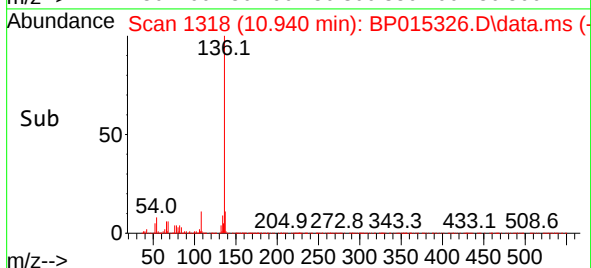
Reviewed By :Christian Giraldo 05/30/2023
Supervised By :Jagrut Upadhyay 05/31/2023

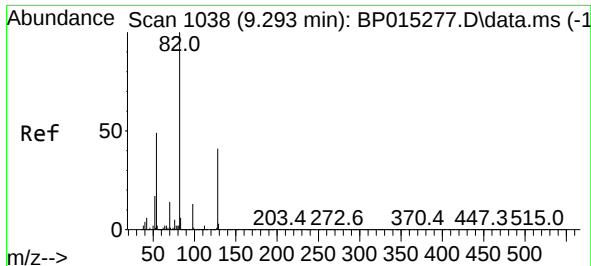


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.940 min Scan# 1318
Delta R.T. 0.000 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42



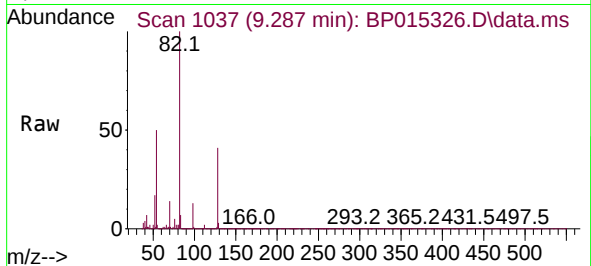
Tgt Ion:136 Resp: 717727
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 7.9 6.3 9.5
68 5.9 5.1 7.7





#23
Nitrobenzene-d5
Concen: 50.367 ng
RT: 9.287 min Scan# 1037
Delta R.T. -0.006 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

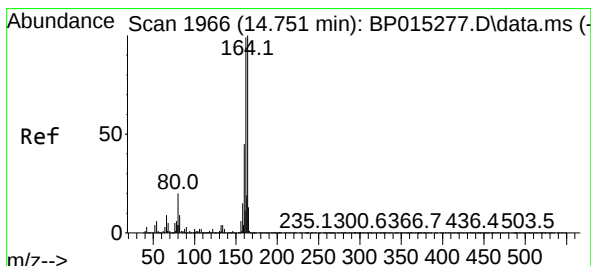
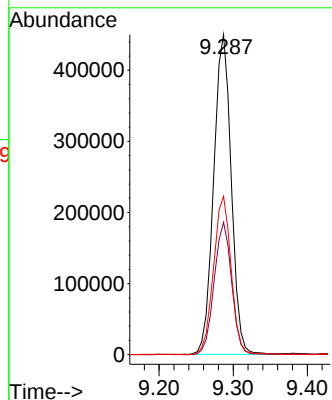
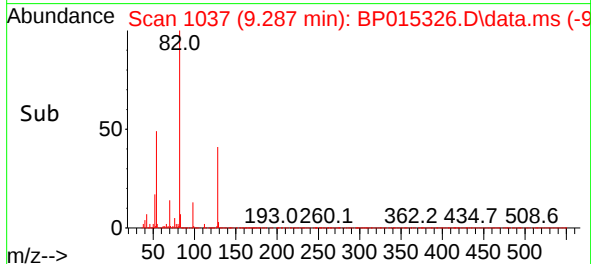
Instrument :
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ClientSampleId :
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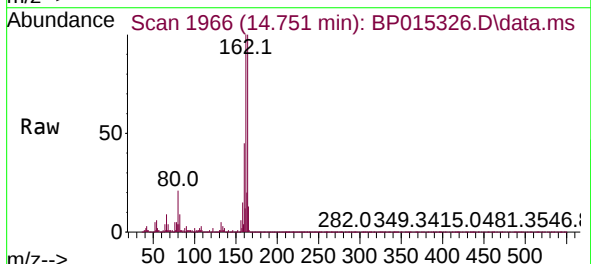
Tgt Ion: 82 Resp: 740372
Ion Ratio Lower Upper
82 100
128 41.4 33.0 49.4
54 49.5 39.2 58.8

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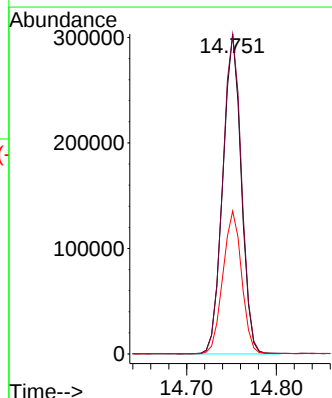
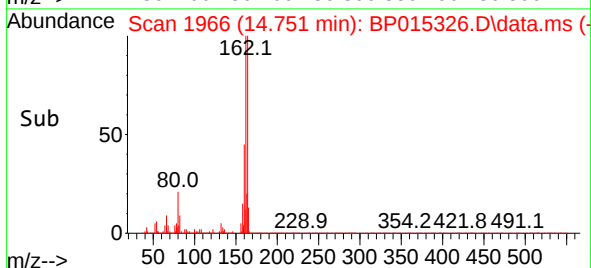
Reviewed By :Christian Giraldo 05/30/2023
Supervised By :Jagrut Upadhyay 05/31/2023

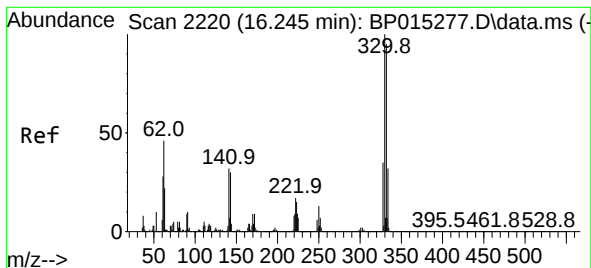


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.751 min Scan# 1966
Delta R.T. 0.000 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42



Tgt Ion:164 Resp: 431482
Ion Ratio Lower Upper
164 100
162 99.8 79.4 119.2
160 44.7 35.6 53.4





#42

2,4,6-Tribromophenol

Concen: 85.277 ng

RT: 16.239 min Scan# 21

Delta R.T. -0.006 min

Lab File: BP015326.D

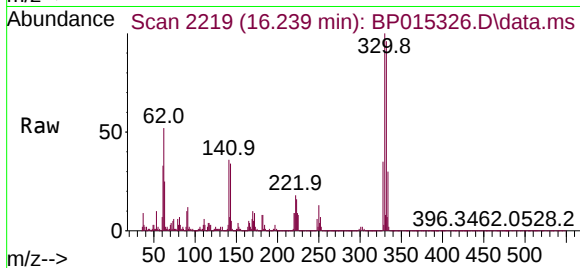
Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

ORA-1618



Tgt Ion:330 Resp: 500029

Ion Ratio Lower Upper

330 100

332 96.8 76.3 114.5

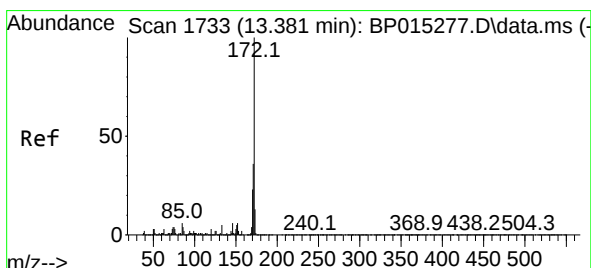
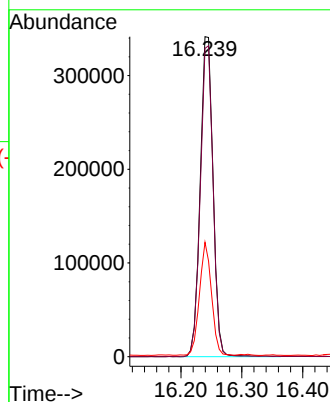
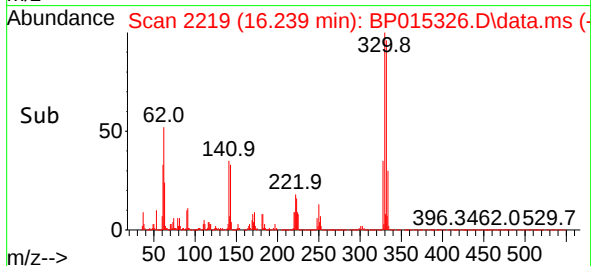
141 32.9 27.8 41.8

Manual Integrations

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Reviewed By :Christian Giraldo 05/30/2023

Supervised By :Jagrut Upadhyay 05/31/2023



#45

2-Fluorobiphenyl

Concen: 49.001 ng

RT: 13.375 min Scan# 1732

Delta R.T. -0.006 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

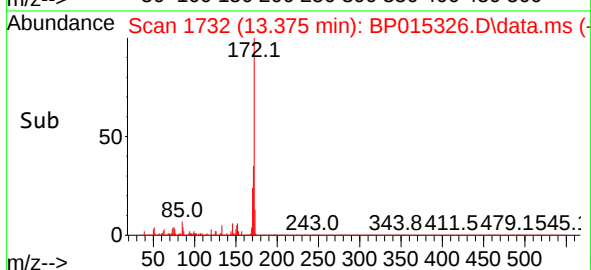
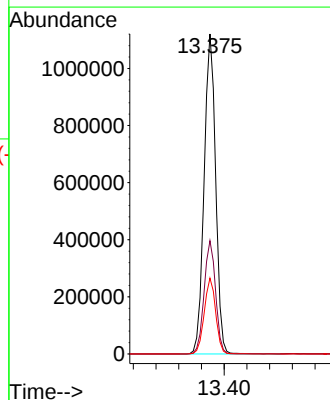
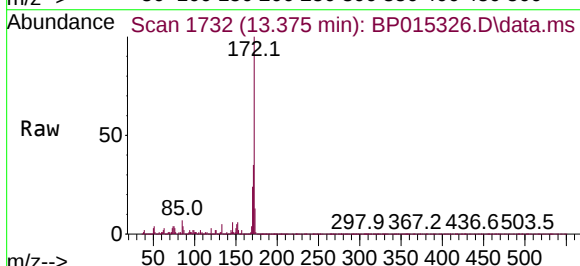
Tgt Ion:172 Resp: 1574830

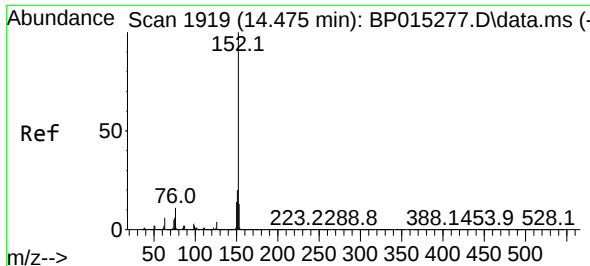
Ion Ratio Lower Upper

172 100

171 35.4 28.4 42.6

170 23.7 18.7 28.1





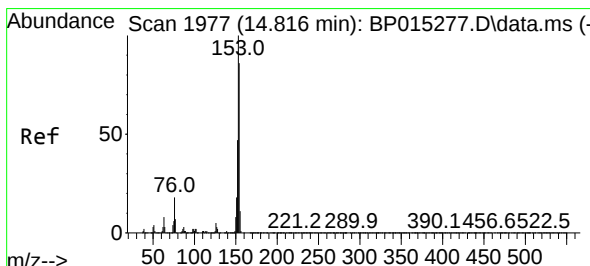
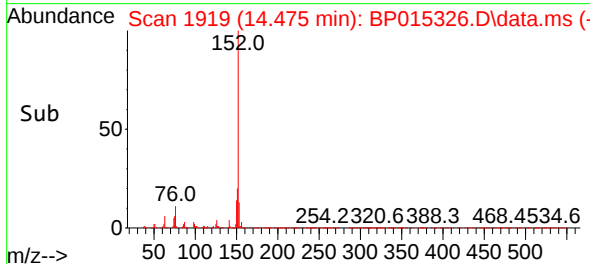
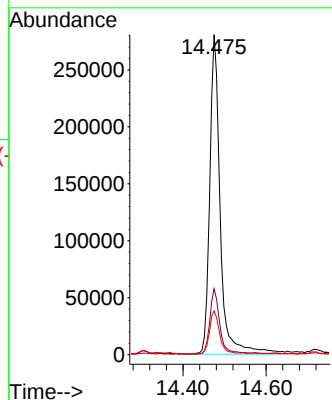
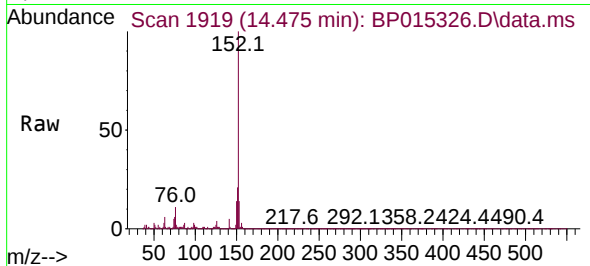
#49
Acenaphthylene
Concen: 11.904 ng
RT: 14.475 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

Instrument :
BNA_P
ClientSampleId :
ORA-1618

Tgt Ion:152 Resp: 491233
Ion Ratio Lower Upper
152 100
151 20.6 16.0 24.0
153 13.6 10.6 16.0

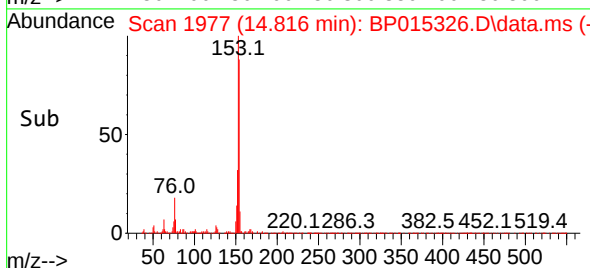
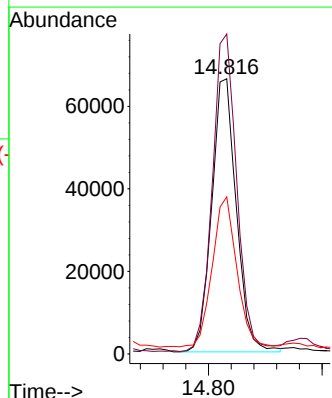
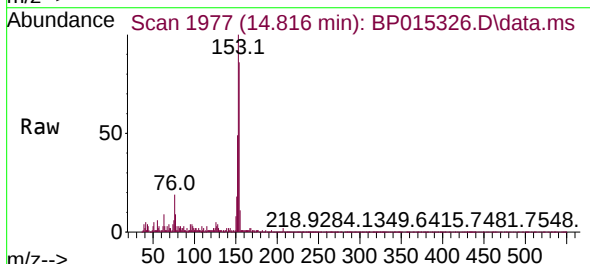
Manual Integrations
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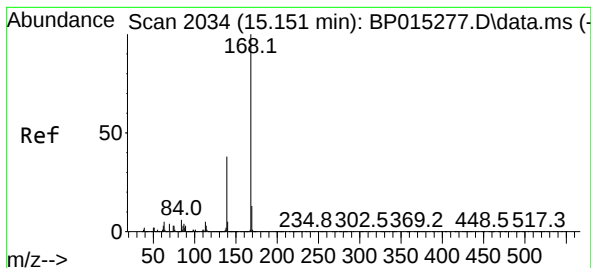
Reviewed By :Christian Giraldo 05/30/2023
Supervised By :Jagrut Upadhyay 05/31/2023



#52
Acenaphthene
Concen: 4.053 ng
RT: 14.816 min Scan# 1977
Delta R.T. -0.000 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

Tgt Ion:154 Resp: 99624
Ion Ratio Lower Upper
154 100
153 116.3 92.8 139.2
152 57.1 44.0 66.0





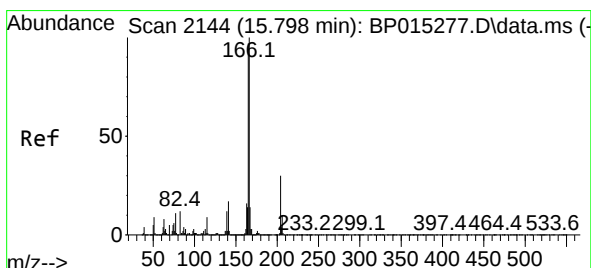
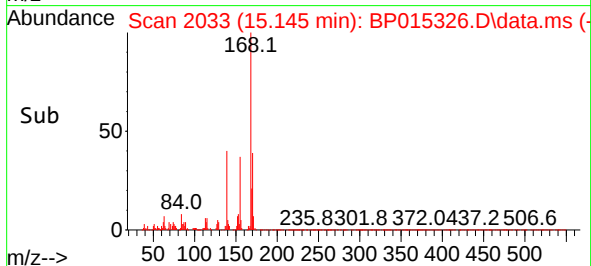
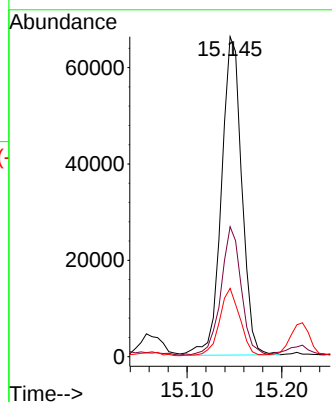
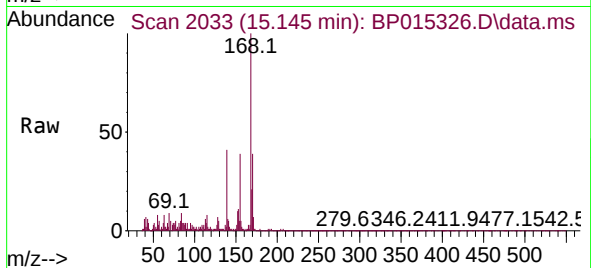
#55
Dibenzenofuran
Concen: 2.460 ng
RT: 15.145 min Scan# 2034
Delta R.T. -0.006 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

Instrument :
BNA_P
ClientSampleId :
ORA-1618

Tgt Ion:168 Resp: 9890
Ion Ratio Lower Upper
168 100
139 40.6 30.1 45.1
169 21.3 10.6 15.8

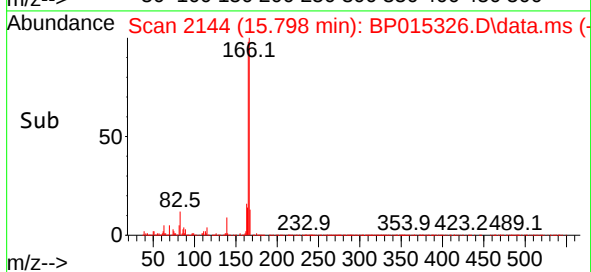
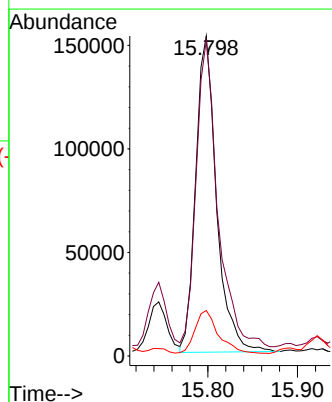
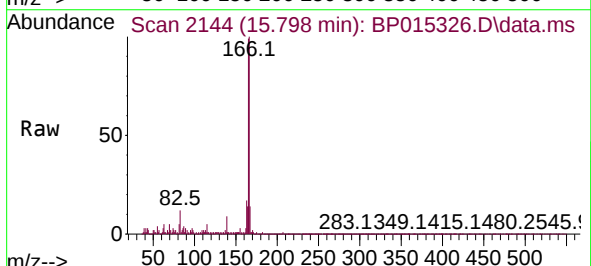
Manual Integrations
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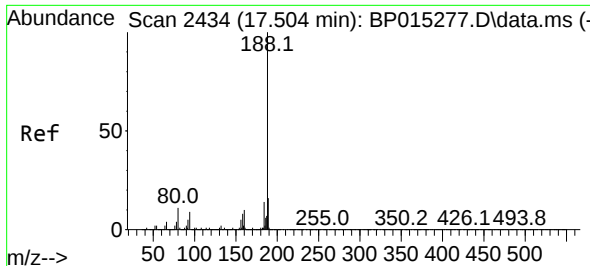
Reviewed By :Christian Giraldo 05/30/2023
Supervised By :Jagrut Upadhyay 05/31/2023



#58
Fluorene
Concen: 7.914 ng
RT: 15.798 min Scan# 2144
Delta R.T. 0.000 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

Tgt Ion:166 Resp: 245743
Ion Ratio Lower Upper
166 100
165 98.7 77.5 116.3
167 14.2 10.9 16.3





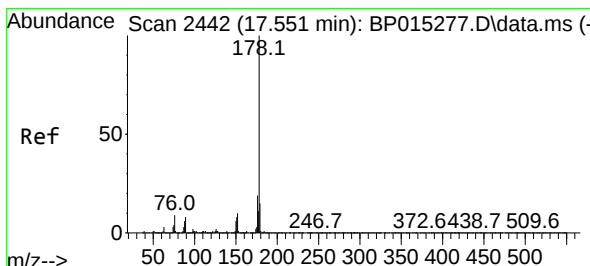
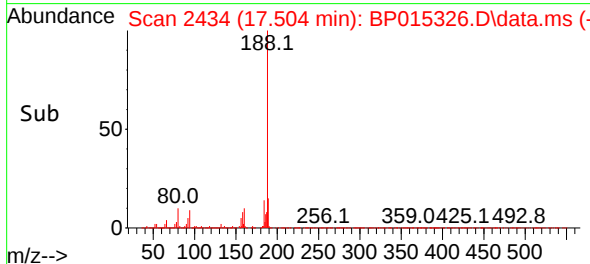
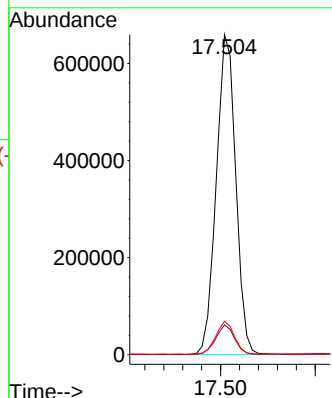
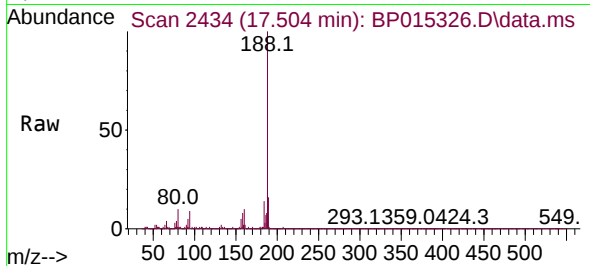
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.504 min Scan# 2434
Delta R.T. 0.000 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

Instrument :
BNA_P
ClientSampleId :
ORA-1618

Tgt Ion:188 Resp: 93848
Ion Ratio Lower Upper
188 100
94 9.3 7.4 11.0
80 10.4 8.6 13.0

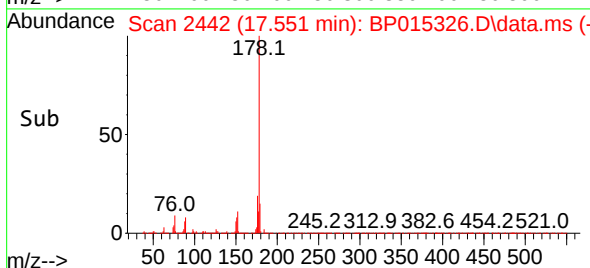
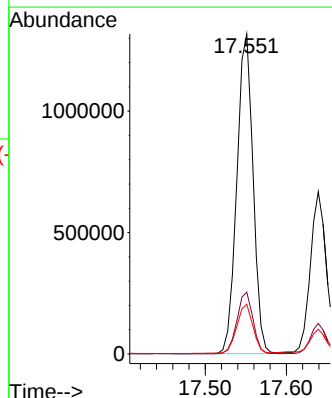
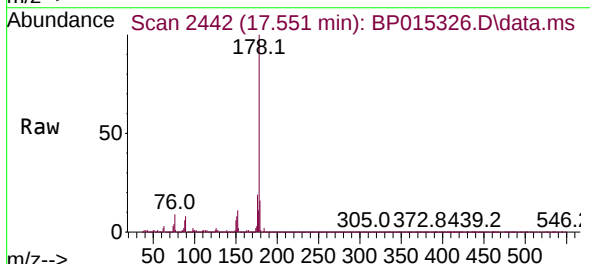
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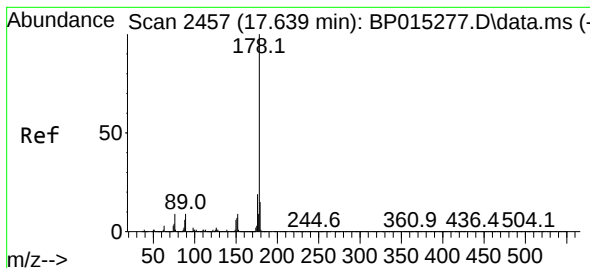
Reviewed By :Christian Giraldo 05/30/2023
Supervised By :Jagrut Upadhyay 05/31/2023



#71
Phenanthrene
Concen: 36.442 ng
RT: 17.551 min Scan# 2442
Delta R.T. 0.000 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

Tgt Ion:178 Resp: 1822787
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.5 12.3 18.5





#72

Anthracene

Concen: 18.084 ng

RT: 17.639 min Scan# 2457

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

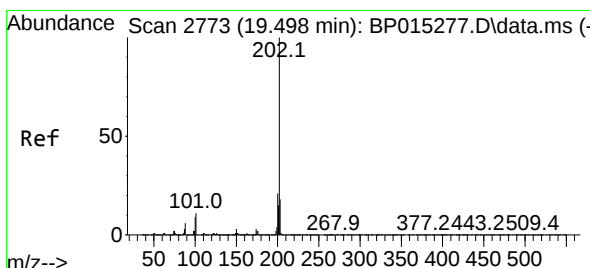
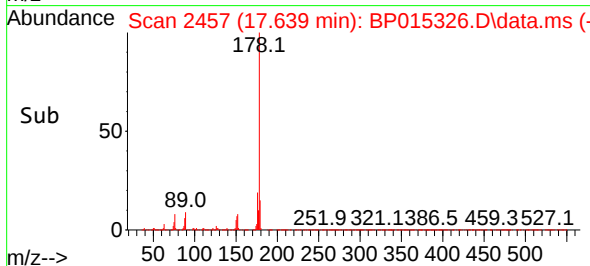
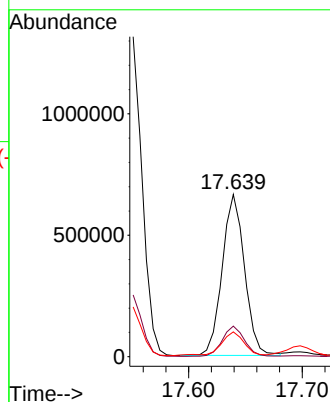
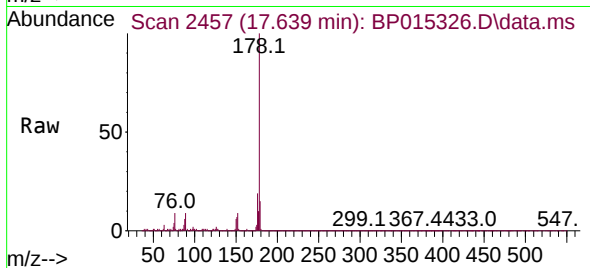
ORA-1618

Tgt Ion:178	Resp: 90587
Ion Ratio	Lower Upper
178 100	
176 18.9	15.1 22.7
179 15.3	12.2 18.4

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Reviewed By :Christian Giraldo 05/30/2023
Supervised By :Jagrut Upadhyay 05/31/2023



#75

Fluoranthene

Concen: 36.921 ng

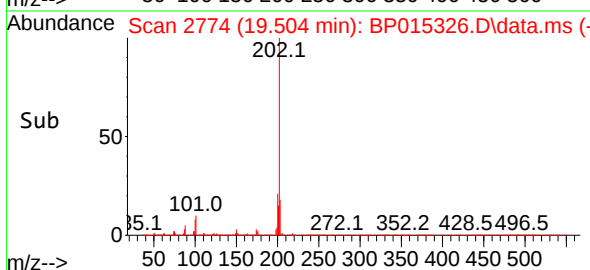
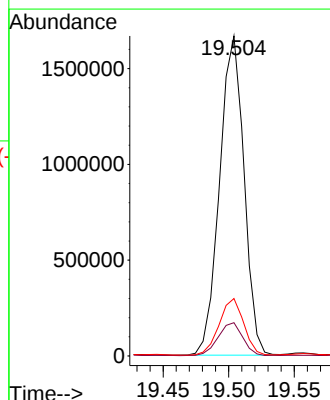
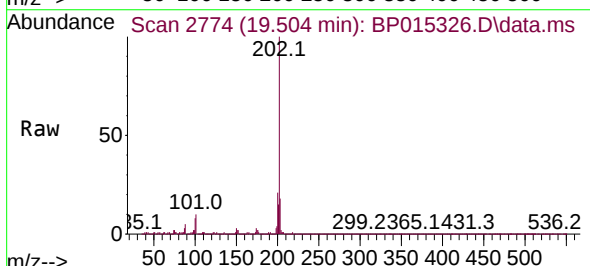
RT: 19.504 min Scan# 2774

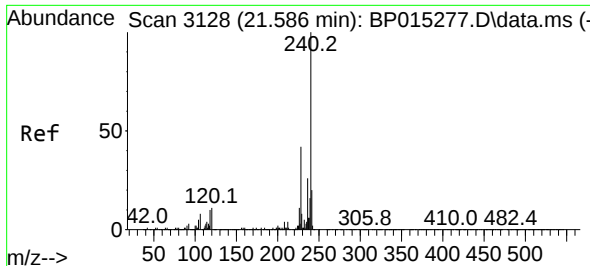
Delta R.T. 0.006 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

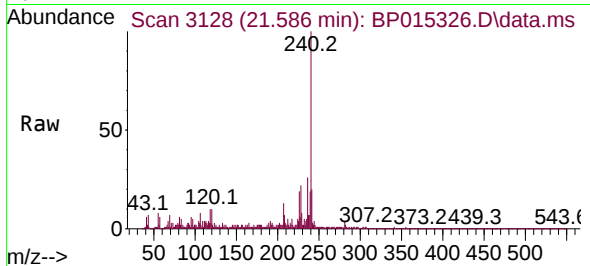
Tgt Ion:202	Resp: 2157356
Ion Ratio	Lower Upper
202 100	
101 10.4	0.0 31.4
203 17.9	0.0 37.6





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.586 min Scan# 3128
Delta R.T. 0.000 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

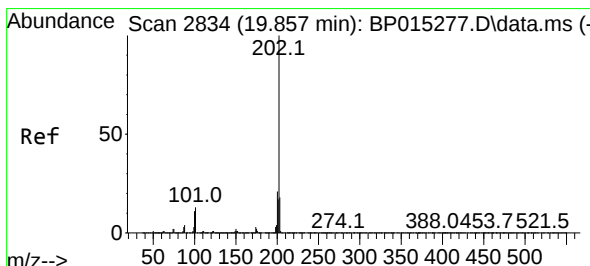
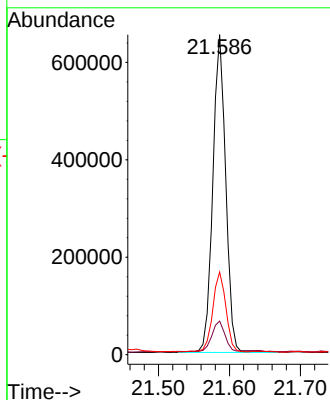
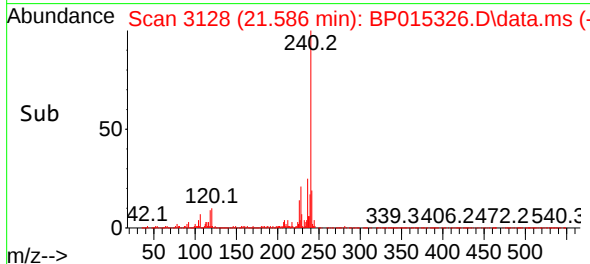
Instrument :
BNA_P
ClientSampleId :
ORA-1618



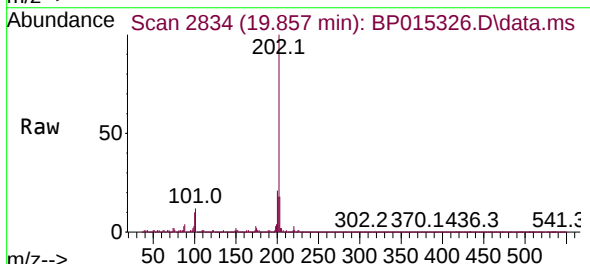
Tgt Ion:240 Resp: 822163
Ion Ratio Lower Upper
240 100
120 10.5 8.8 13.2
236 25.9 20.5 30.7

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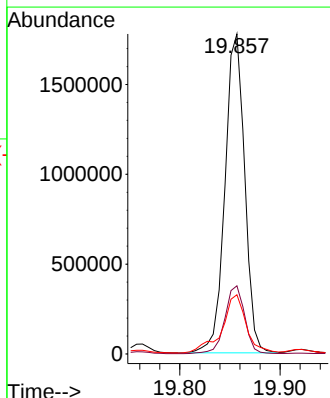
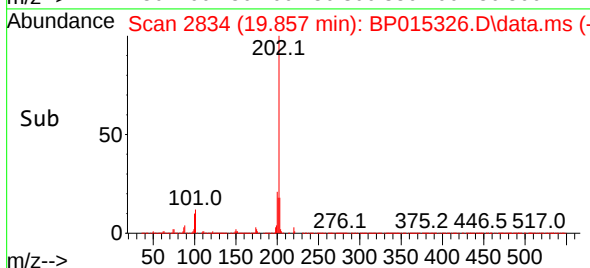
Reviewed By :Christian Giraldo 05/30/2023
Supervised By :Jagrut Upadhyay 05/31/2023

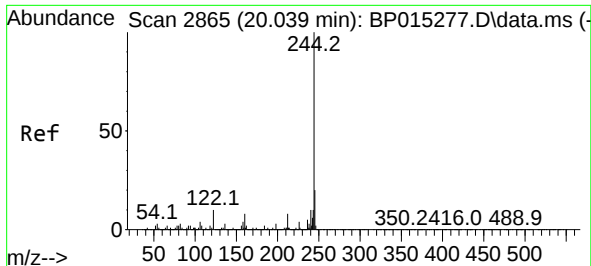


#78
Pyrene
Concen: 41.119 ng
RT: 19.857 min Scan# 2834
Delta R.T. 0.000 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42



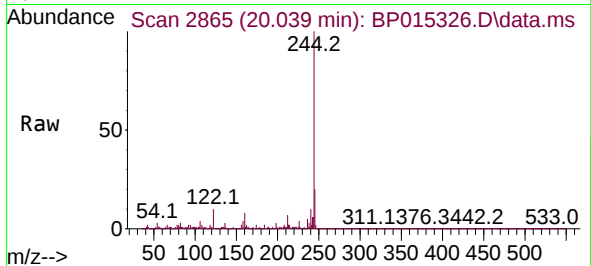
Tgt Ion:202 Resp: 2418847
Ion Ratio Lower Upper
202 100
200 21.3 17.1 25.7
203 18.5 14.2 21.2





#79
 Terphenyl-d14
 Concen: 51.722 ng
 RT: 20.039 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BP015326.D
 Acq: 27 May 2023 00:42

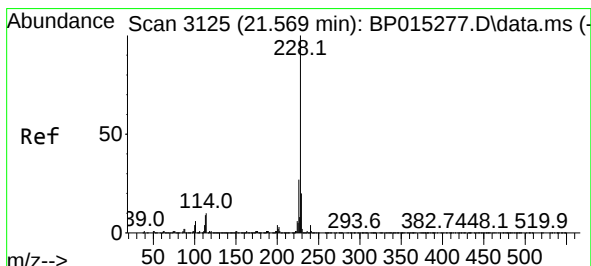
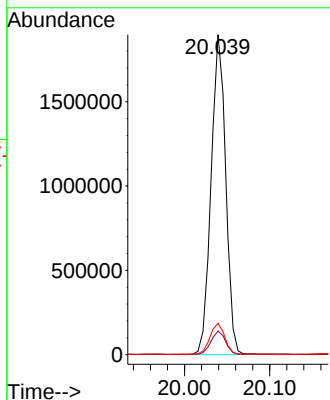
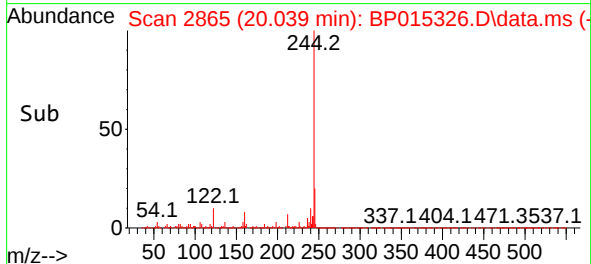
Instrument :
 BNA_P
 ClientSampleId :
 ORA-1618



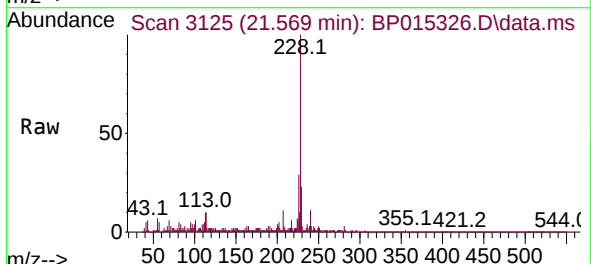
Tgt Ion:244 Resp: 2260739
 Ion Ratio Lower Upper
 244 100
 212 7.4 6.0 9.0
 122 9.8 8.2 12.4

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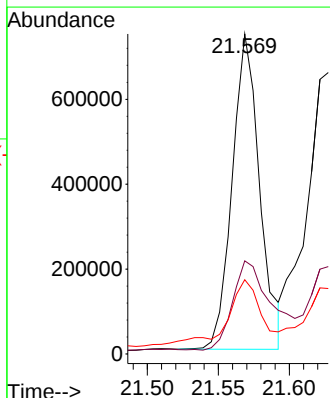
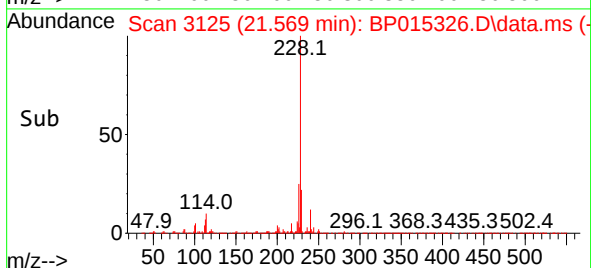
Reviewed By :Christian Giraldo 05/30/2023
 Supervised By :Jagrut Upadhyay 05/31/2023

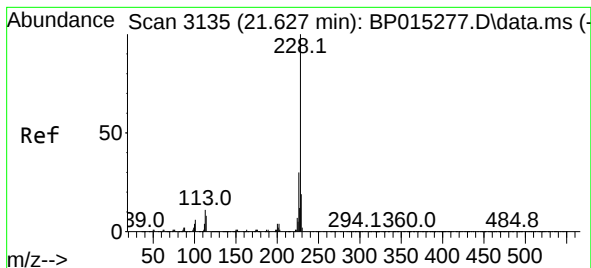


#81
 Benzo(a)anthracene
 Concen: 17.541 ng
 RT: 21.569 min Scan# 3125
 Delta R.T. 0.000 min
 Lab File: BP015326.D
 Acq: 27 May 2023 00:42



Tgt Ion:228 Resp: 1002050
 Ion Ratio Lower Upper
 228 100
 226 29.1 21.7 32.5
 229 23.2 15.8 23.8





#83

Chrysene

Concen: 18.864 ng

RT: 21.627 min Scan# 3135

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

ORA-1618

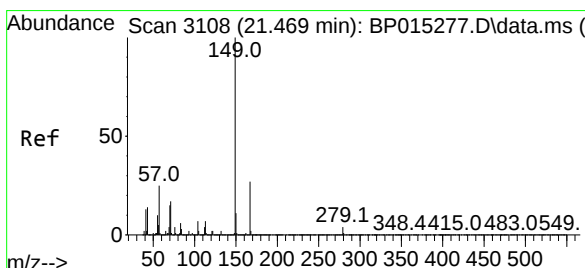
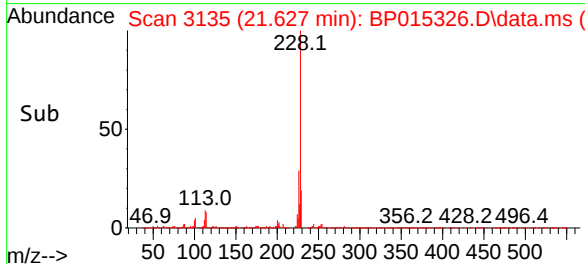
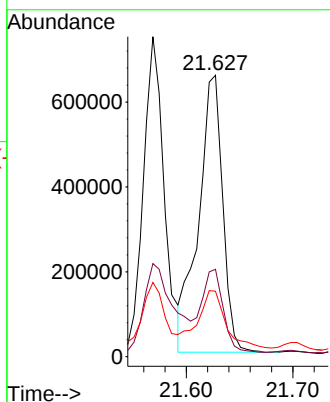
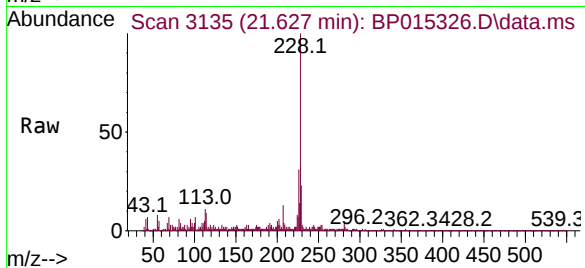
Tgt Ion:228 Resp: 1033329

Ion	Ratio	Lower	Upper
228	100		
226	31.0	23.8	35.6
229	23.3	15.5	23.3

Manual Integrations

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Supervised By :Jagrut Upadhyay 05/31/2023



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.596 ng

RT: 21.463 min Scan# 3107

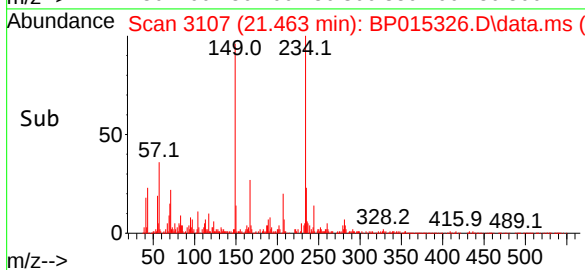
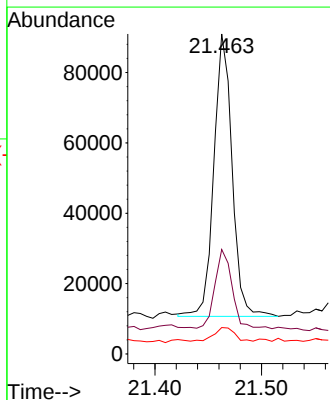
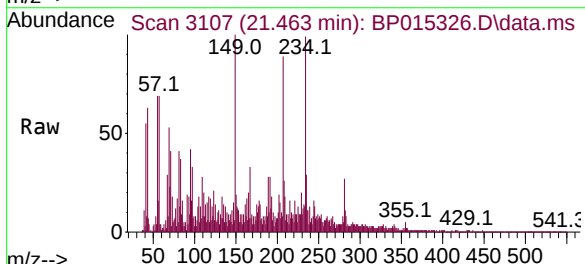
Delta R.T. -0.006 min

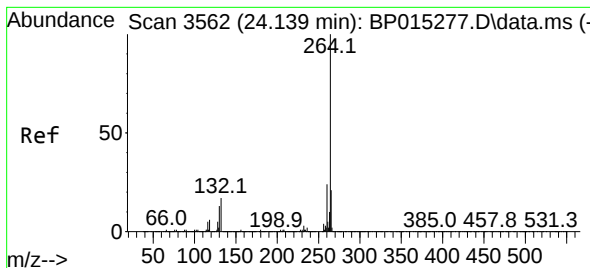
Lab File: BP015326.D

Acq: 27 May 2023 00:42

Tgt Ion:149 Resp: 95322

Ion	Ratio	Lower	Upper
149	100		
167	32.7	21.6	32.4#
279	8.3	3.5	5.3#





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.151 min Scan# 3

Delta R.T. 0.012 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

ORA-1618

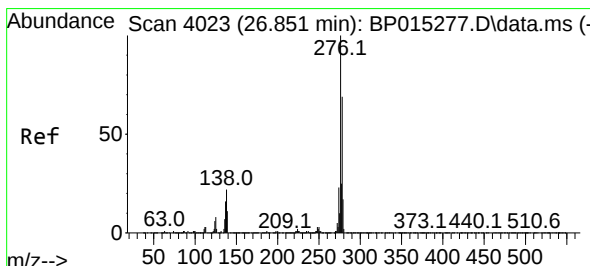
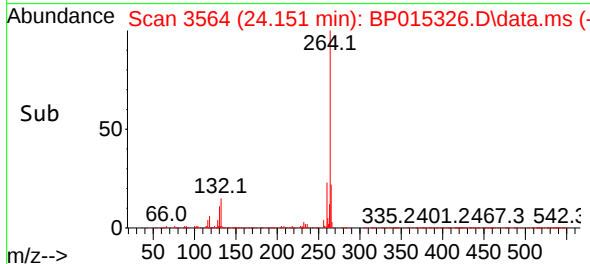
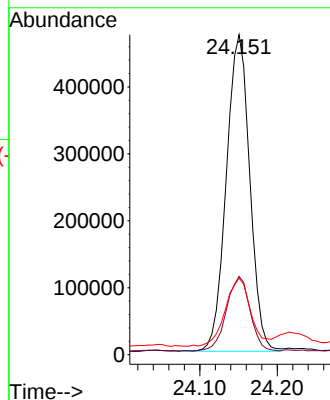
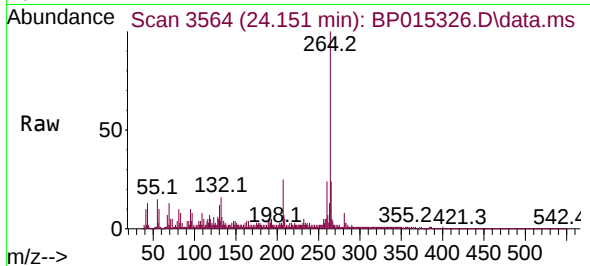
Tgt Ion:264	Resp: 996370
Ion Ratio	Lower Upper
264 100	
260 24.5	19.0 28.6
265 24.0	17.5 26.3

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Reviewed By :Christian Giraldo 05/30/2023

Supervised By :Jagrut Upadhyay 05/31/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.432 ng

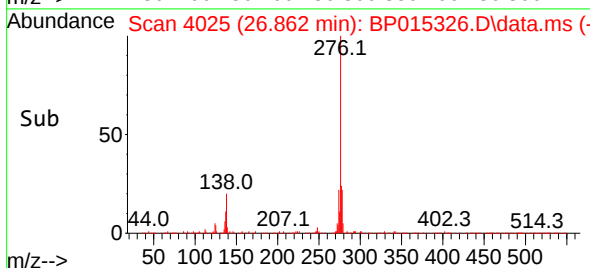
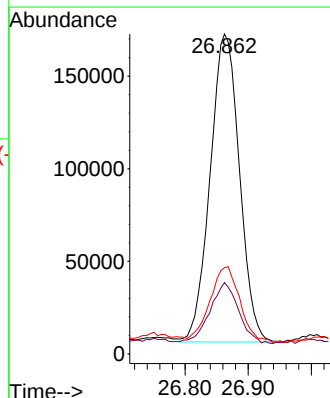
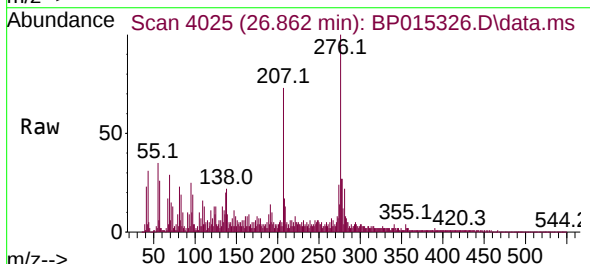
RT: 26.862 min Scan# 4025

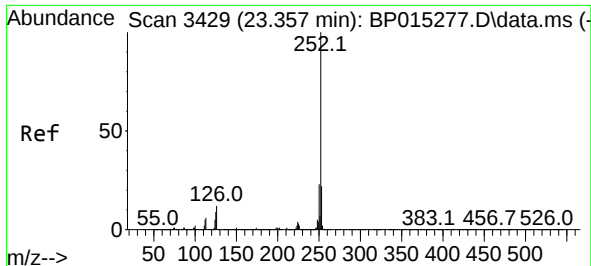
Delta R.T. 0.012 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

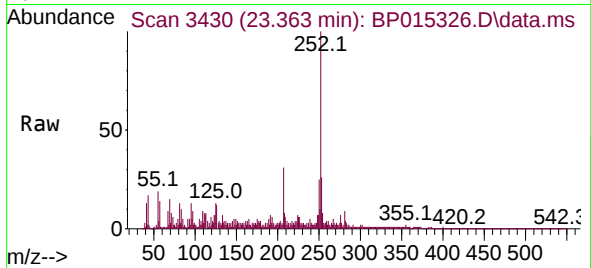
Tgt Ion:276	Resp: 536744
Ion Ratio	Lower Upper
276 100	
138 19.5	19.0 28.6
277 24.7	20.2 30.2





#88
Benzo(b)fluoranthene
Concen: 17.647 ng
RT: 23.363 min Scan# 3429
Delta R.T. 0.006 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42

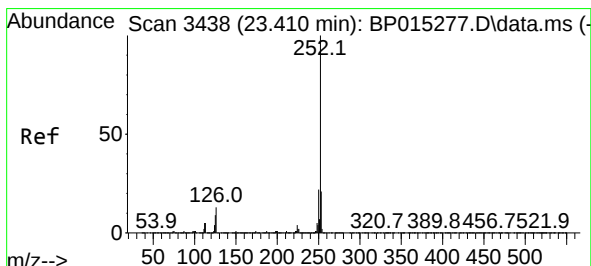
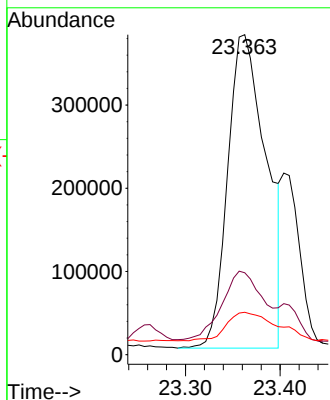
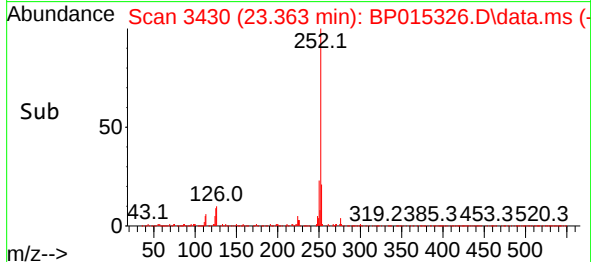
Instrument :
BNA_P
ClientSampleId :
ORA-1618



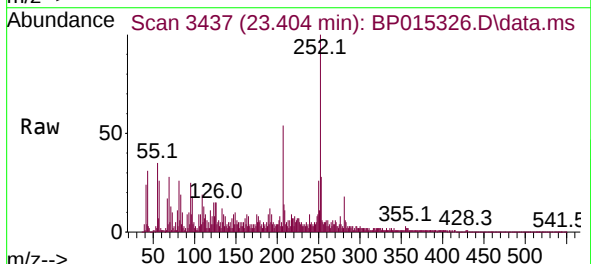
Tgt Ion:252 Resp: 106906
Ion Ratio Lower Upper
252 100
253 25.6 17.4 26.2
125 13.3 7.2 10.8

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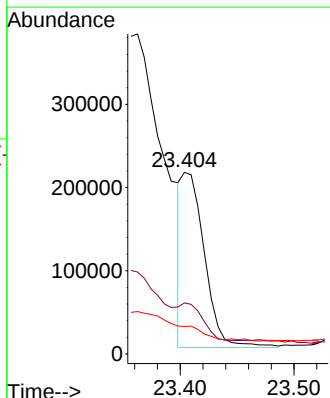
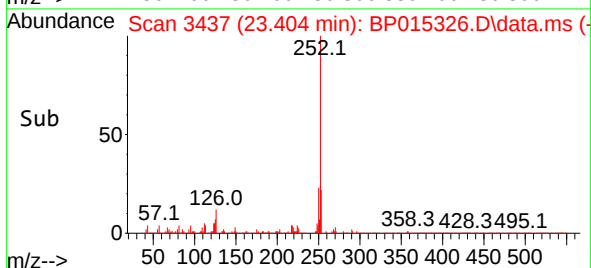
Reviewed By :Christian Giraldo 05/30/2023
Supervised By :Jagrut Upadhyay 05/31/2023

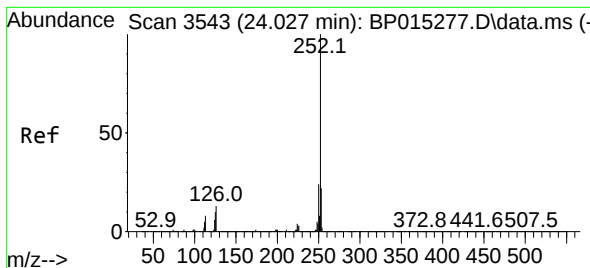


#89
Benzo(k)fluoranthene
Concen: 4.761 ng m
RT: 23.404 min Scan# 3437
Delta R.T. -0.006 min
Lab File: BP015326.D
Acq: 27 May 2023 00:42



Tgt Ion:252 Resp: 290449
Ion Ratio Lower Upper
252 100
253 28.1 17.0 25.4#
125 15.2 7.4 11.0#





#90

Benzo(a)pyrene

Concen: 15.867 ng

RT: 24.033 min Scan# 3

Delta R.T. 0.006 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

Instrument :

BNA_P

ClientSampleId :

ORA-1618

Tgt Ion:252 Resp: 92800

Ion Ratio Lower Upper

252 100

253 24.3 17.4 26.2

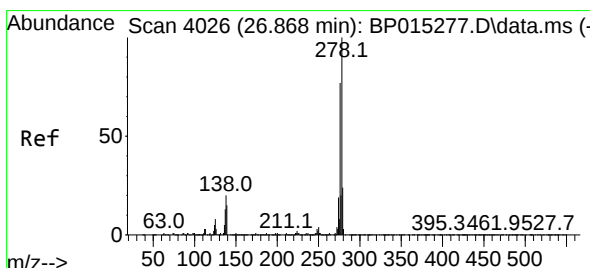
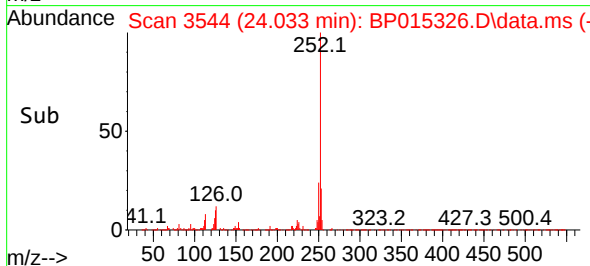
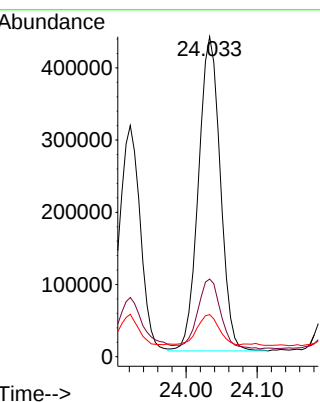
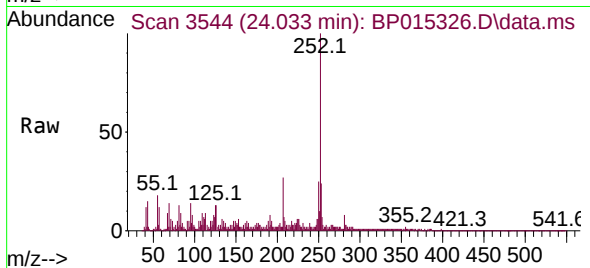
125 13.2 8.4 12.6

Manual Integrations

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Reviewed By :Christian Giraldo 05/30/2023

Supervised By :Jagrut Upadhyay 05/31/2023



#91

Dibenzo(a,h)anthracene

Concen: 2.827 ng

RT: 26.868 min Scan# 4026

Delta R.T. 0.000 min

Lab File: BP015326.D

Acq: 27 May 2023 00:42

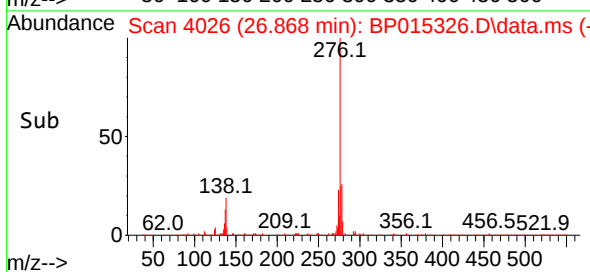
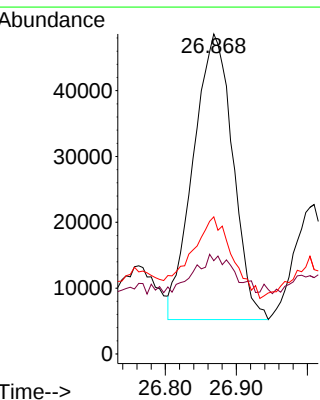
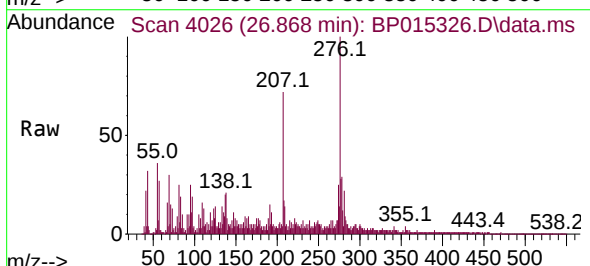
Tgt Ion:278 Resp: 167643

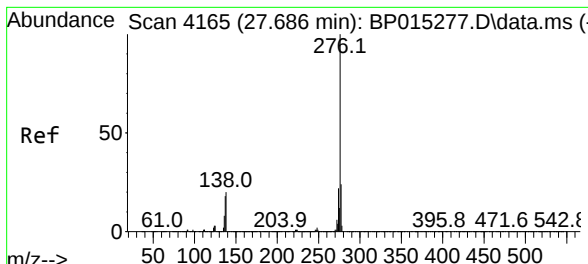
Ion Ratio Lower Upper

278 100

139 29.2 12.3 18.5#

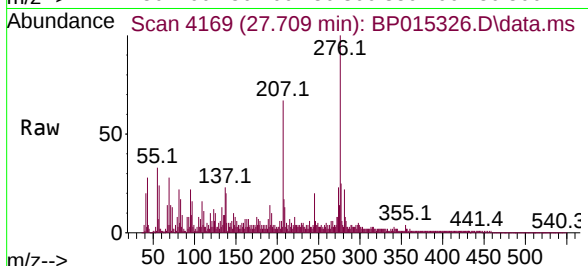
279 42.8 19.3 28.9#





#92
 Benzo(g,h,i)perylene
 Concen: 10.537 ng
 RT: 27.709 min Scan# 4169
 Delta R.T. 0.024 min
 Lab File: BP015326.D
 Acq: 27 May 2023 00:42

Instrument :
 BNA_P
 ClientSampleId :
 ORA-1618



Tgt Ion: 276 Resp: 635000

Ion	Ratio	Lower	Upper
276	100		
277	25.2	19.0	28.6
138	19.8	16.2	24.2

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Reviewed By : Christian Giraldo 05/30/2023
 Supervised By : Jagrut Upadhyay 05/31/2023

