

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM073123\
 Data File : BM041193.D
 Acq On : 31 Jul 2023 17:26
 Operator : MA/JU
 Sample : 03788-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CHRT-20430

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/01/2023
 Supervised By :mohammad ahmed 08/01/2023

Quant Time: Jul 31 17:56:34 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 31 16:29:28 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.798	152	123067	20.000	ng	0.00
21) Naphthalene-d8	10.604	136	483167	20.000	ng	0.00
39) Acenaphthene-d10	14.463	164	285785	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	540705	20.000	ng	# 0.00
76) Chrysene-d12	21.427	240	512705	20.000	ng	0.00
86) Perylene-d12	23.797	264	601989	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	756088	91.823	ng	0.00
7) Phenol-d6	6.975	99	965852	90.491	ng	0.00
23) Nitrobenzene-d5	8.975	82	581303	55.950	ng	0.00
42) 2,4,6-Tribromophenol	15.968	330	313968	77.671	ng	0.00
45) 2-Fluorobiphenyl	13.080	172	957252	42.313	ng	0.00
79) Terphenyl-d14	19.862	244	1188316	41.906	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	14.186	152	63024	2.257	ng	# 85
58) Fluorene	15.521	166	44663	2.063	ng	# 85
71) Phenanthrene	17.268	178	712169	23.706	ng	# 96
72) Anthracene	17.363	178	184544m	6.211	ng	
73) Carbazole	17.645	167	89435	3.326	ng	# 65
75) Fluoranthene	19.298	202	1454047	43.081	ng	98
78) Pyrene	19.662	202	1398963	39.018	ng	99
81) Benzo(a)anthracene	21.409	228	789492	22.714	ng	99
83) Chrysene	21.462	228	1076656	32.026	ng	98
84) Bis(2-ethylhexyl)phtha...	21.333	149	193177	11.338	ng	# 96
87) Indeno(1,2,3-cd)pyrene	26.238	276	450217	10.172	ng	# 93
88) Benzo(b)fluoranthene	23.080	252	1274030	35.625	ng	98
89) Benzo(k)fluoranthene	23.121	252	392505m	10.730	ng	
90) Benzo(a)pyrene	23.692	252	692559	20.155	ng	98
91) Dibenzo(a,h)anthracene	26.238	278	118491m	3.210	ng	
92) Benzo(g,h,i)perylene	26.991	276	401686	11.120	ng	99

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

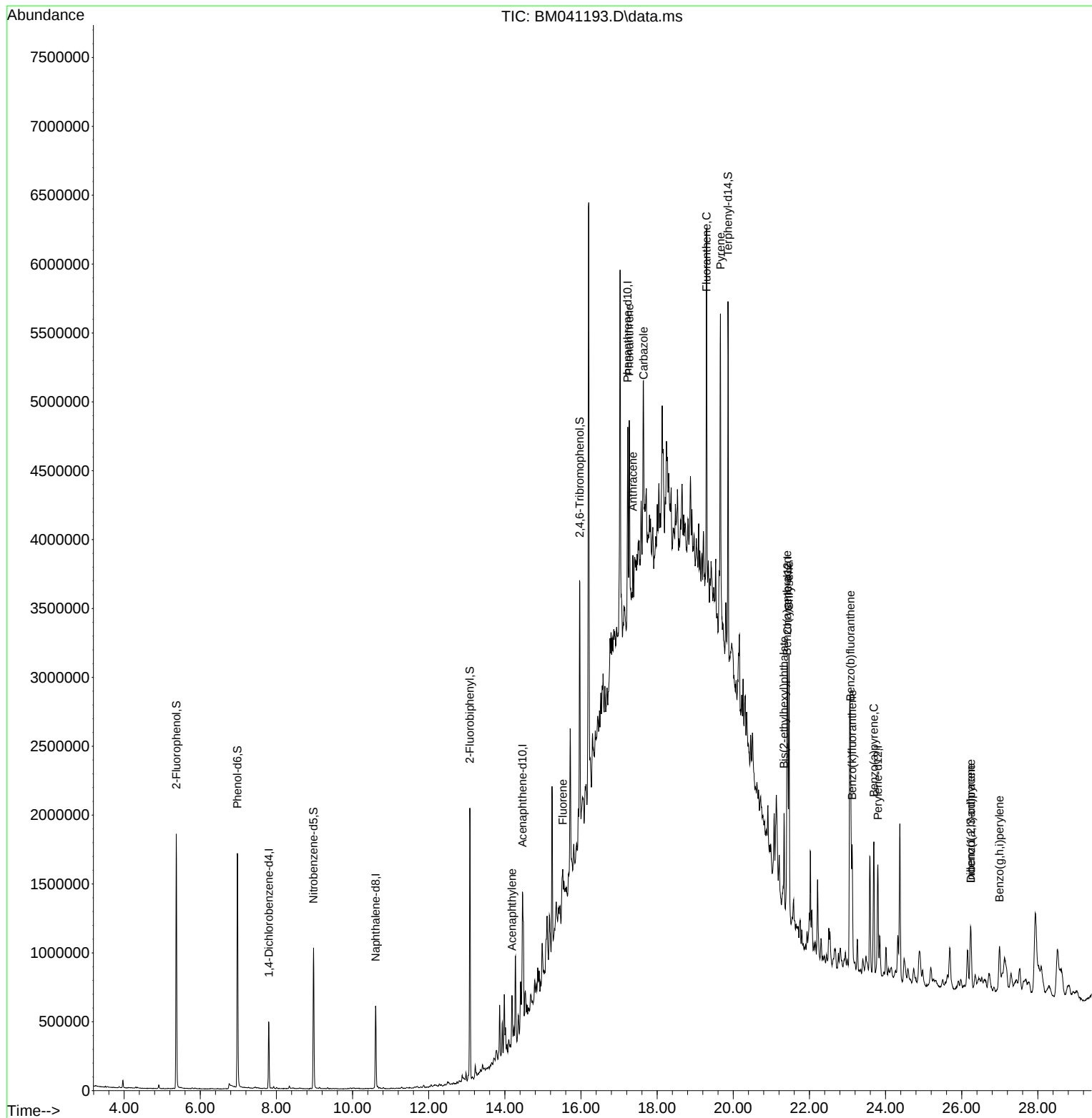
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM073123\
Data File : BM041193.D
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ALS Vial : 14 Sample Multiplier: 1

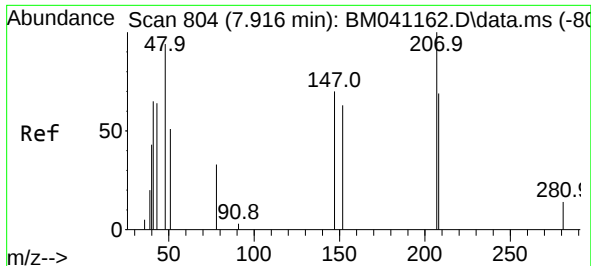
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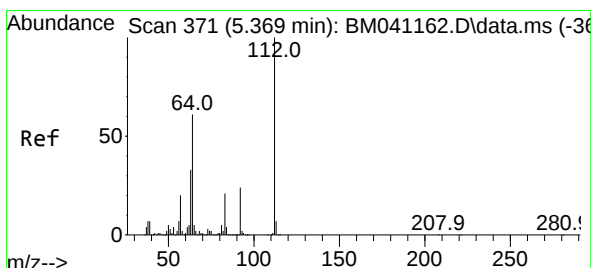
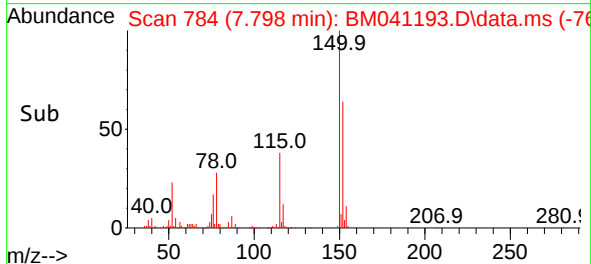
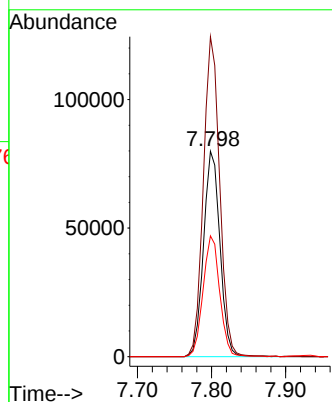
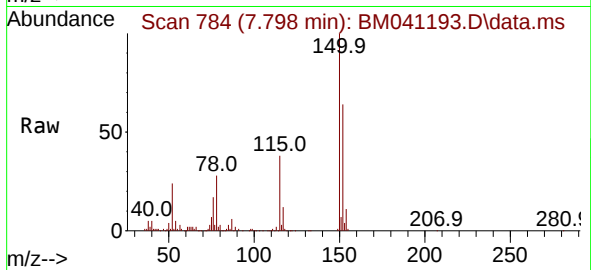
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.798 min Scan# 71
Delta R.T. 0.000 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26

Instrument :
BNA_M
ClientSampleId :
CHRT-20430

Tgt Ion:152 Resp: 12306
Ion Ratio Lower Upper
152 100
150 155.7 125.5 188.3
115 58.8 48.0 72.0

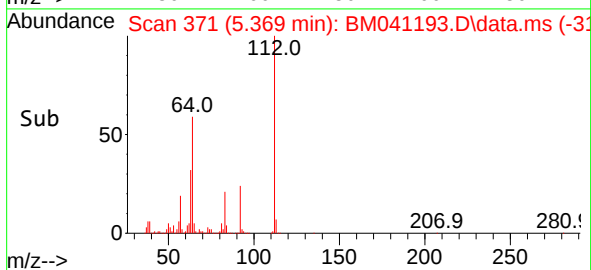
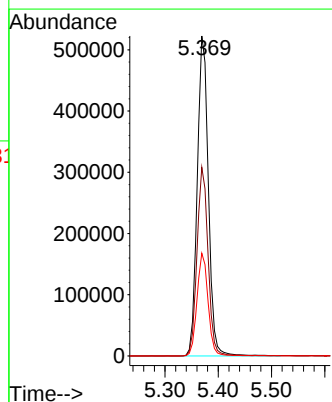
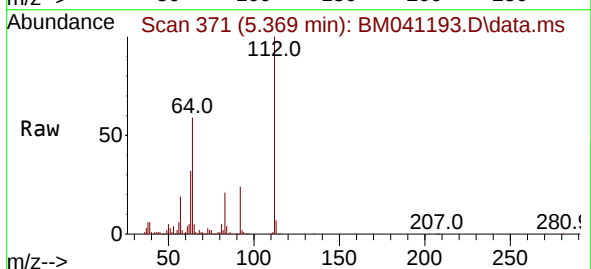
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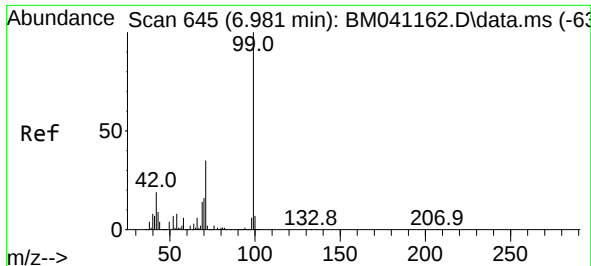
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023



#5
2-Fluorophenol
Concen: 91.823 ng
RT: 5.369 min Scan# 371
Delta R.T. 0.006 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26

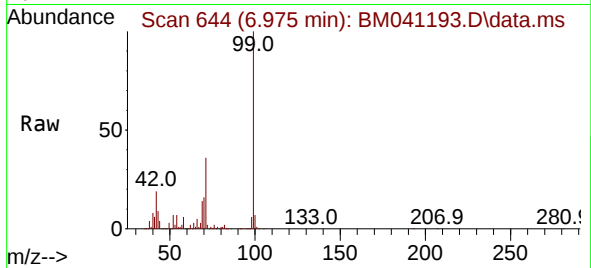
Tgt Ion:112 Resp: 756088
Ion Ratio Lower Upper
112 100
64 59.0 48.5 72.7
63 32.1 26.5 39.7





#7
Phenol-d6
Concen: 90.491 ng
RT: 6.975 min Scan# 64
Delta R.T. 0.000 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26

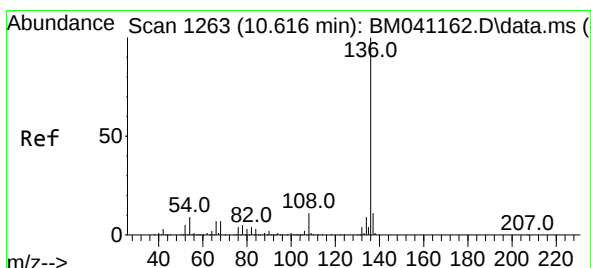
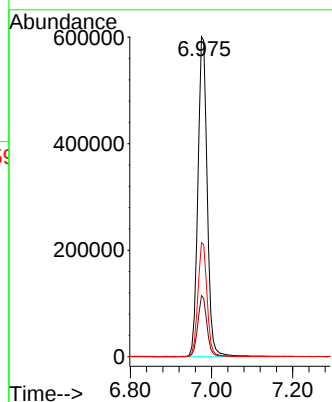
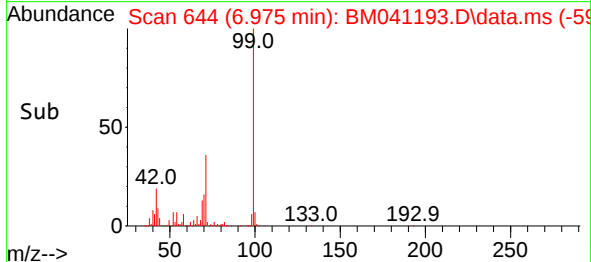
Instrument :
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ClientSampleId :
CHRT-20430



Tgt Ion: 99 Resp: 965852
Ion Ratio Lower Upper
99 100
42 19.0 15.4 23.0
71 35.6 28.2 42.4

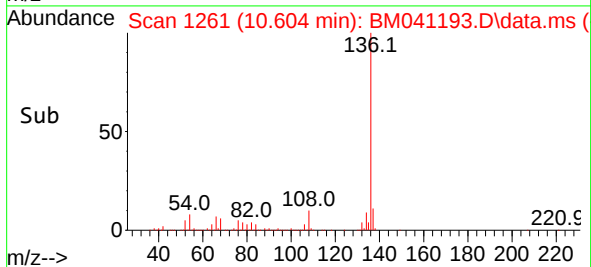
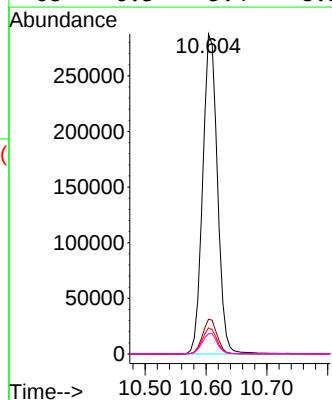
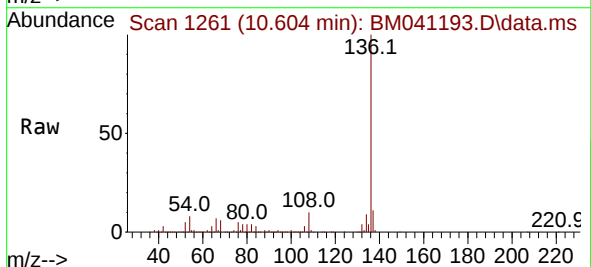
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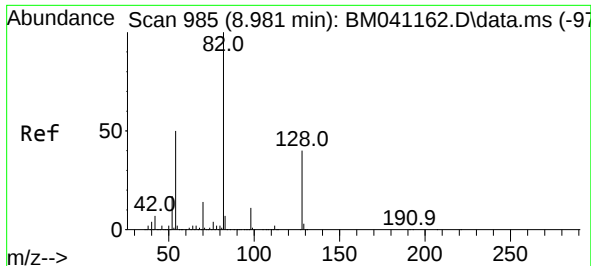
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.604 min Scan# 1261
Delta R.T. 0.000 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26

Tgt Ion:136 Resp: 483167
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 8.2 6.9 10.3
68 6.3 5.4 8.2





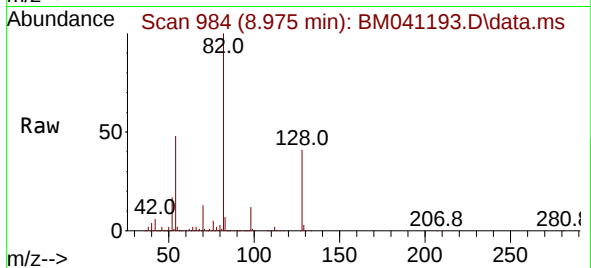
#23
Nitrobenzene-d5
Concen: 55.950 ng
RT: 8.975 min Scan# 984
Delta R.T. 0.000 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26

Instrument :

BNA_M

ClientSampleId :

CHRT-20430

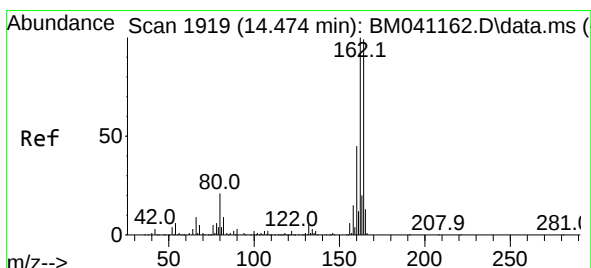
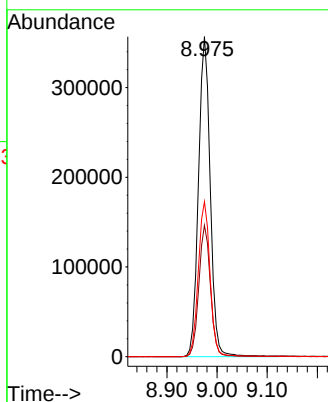
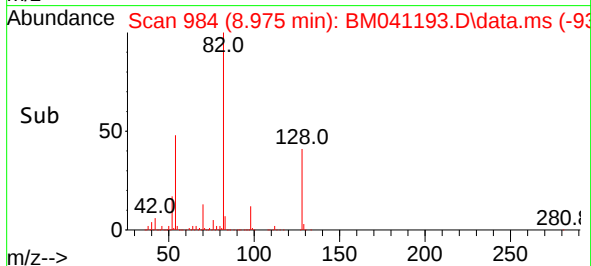


Tgt Ion: 82 Resp: 58130
Ion Ratio Lower Upper
82 100
128 41.1 31.8 47.6
54 48.5 40.1 60.1

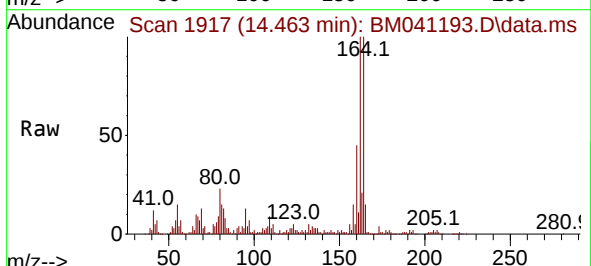
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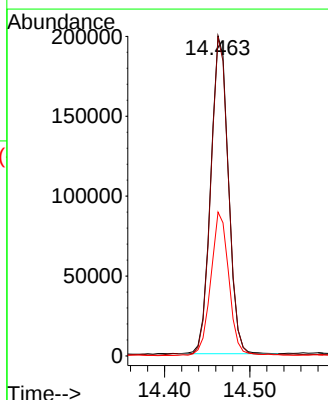
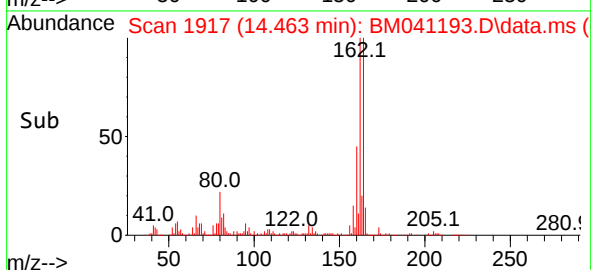
Reviewed By :Yogesh Patel 08/01/2023
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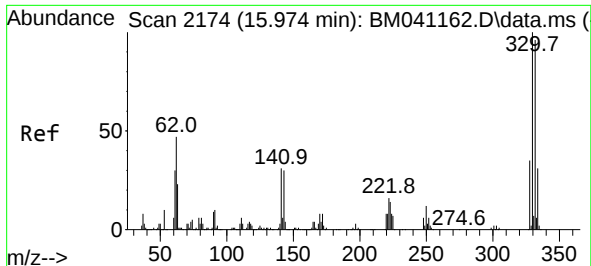


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.463 min Scan# 1917
Delta R.T. 0.000 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26



Tgt Ion:164 Resp: 285785
Ion Ratio Lower Upper
164 100
162 99.6 80.4 120.6
160 44.9 36.2 54.2





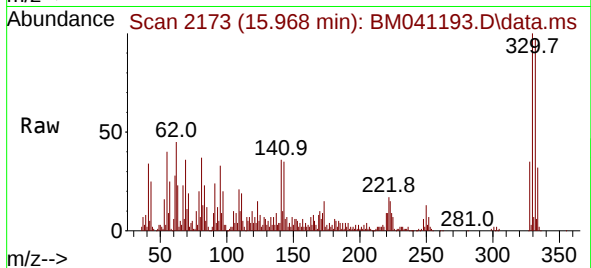
#42
2,4,6-Tribromophenol
Concen: 77.671 ng
RT: 15.968 min Scan# 2173
Delta R.T. 0.006 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26

Instrument :

BNA_M

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CHRT-20430

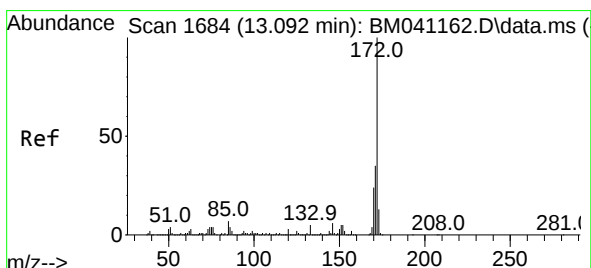
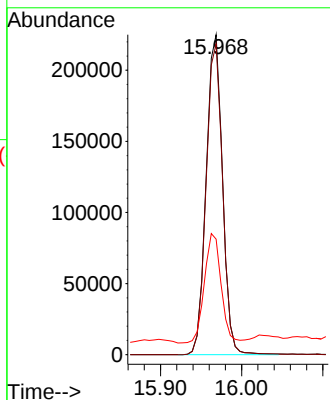
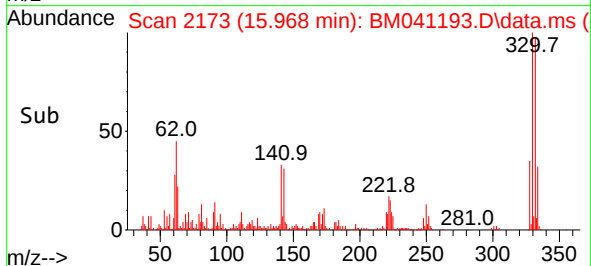


Tgt Ion:330 Resp: 313968
Ion Ratio Lower Upper
330 100
332 98.1 77.7 116.5
141 34.7 28.3 42.5

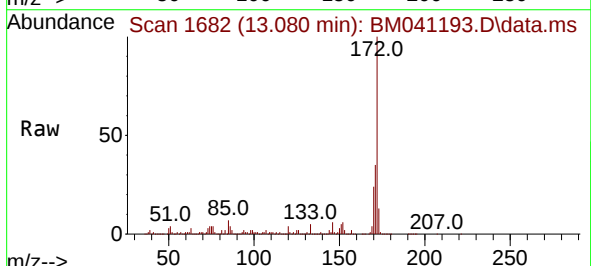
Manual Integrations

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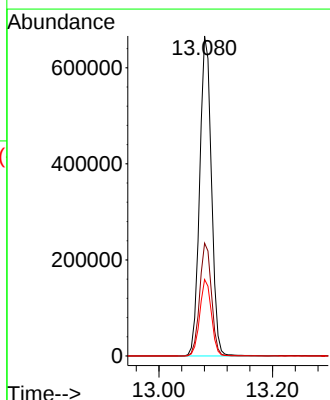
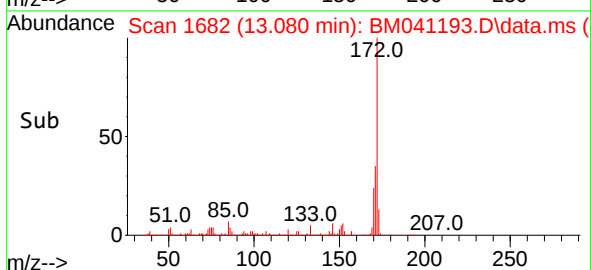
Reviewed By :Yogesh Patel 08/01/2023
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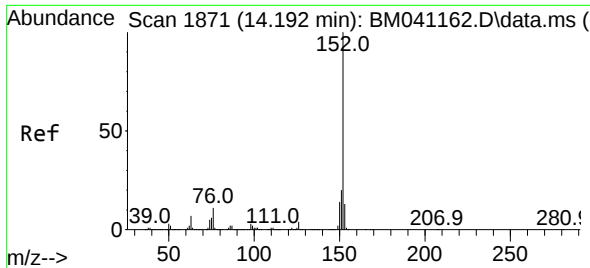


#45
2-Fluorobiphenyl
Concen: 42.313 ng
RT: 13.080 min Scan# 1682
Delta R.T. -0.006 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26



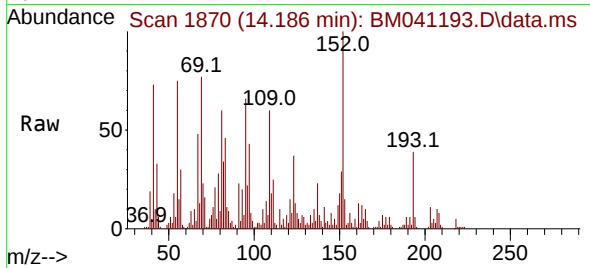
Tgt Ion:172 Resp: 957252
Ion Ratio Lower Upper
172 100
171 35.3 28.1 42.1
170 23.9 18.9 28.3





#49
Acenaphthylene
Concen: 2.257 ng
RT: 14.186 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26

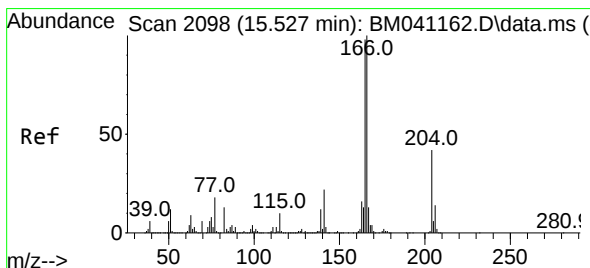
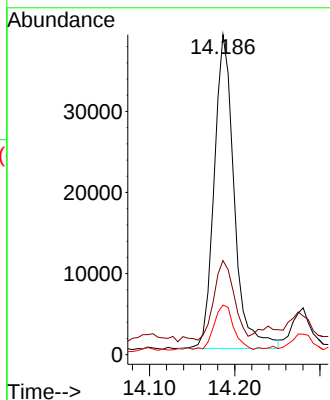
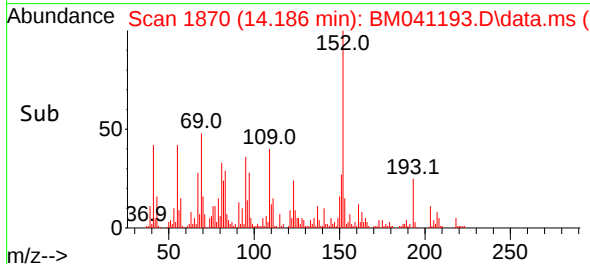
Instrument :
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ClientSampleId :
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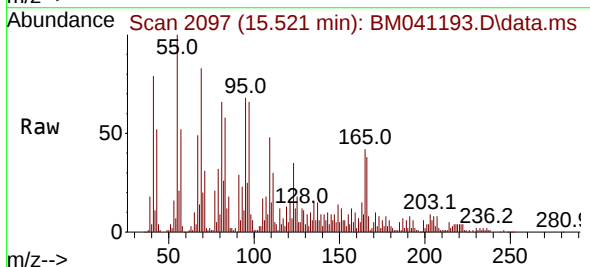
Tgt Ion:152 Resp: 63024
Ion Ratio Lower Upper
152 100
151 29.4 16.1 24.1
153 15.5 10.5 15.7

Manual Integrations
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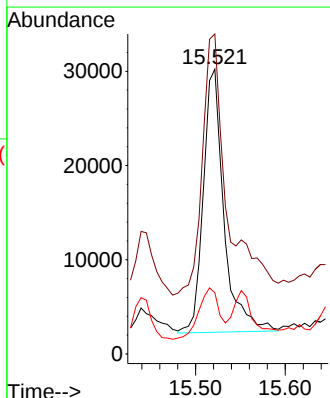
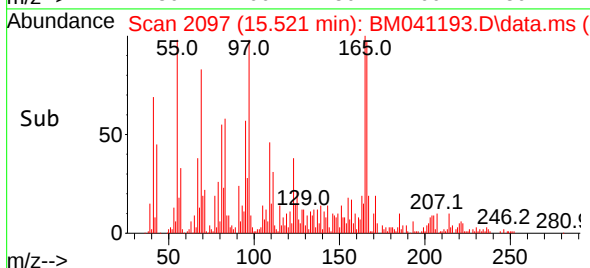
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023

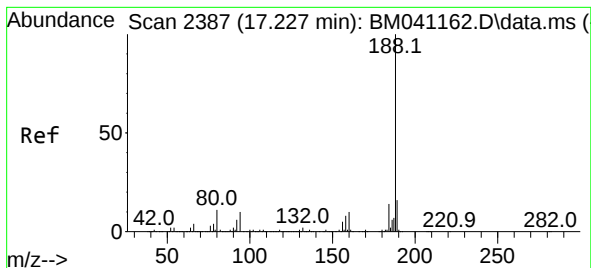


#58
Fluorene
Concen: 2.063 ng
RT: 15.521 min Scan# 2097
Delta R.T. 0.006 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26



Tgt Ion:166 Resp: 44663
Ion Ratio Lower Upper
166 100
165 112.3 78.2 117.4
167 21.5 10.6 16.0#





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 21
Delta R.T. 0.006 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26

Instrument :

BNA_M

ClientSampleId :

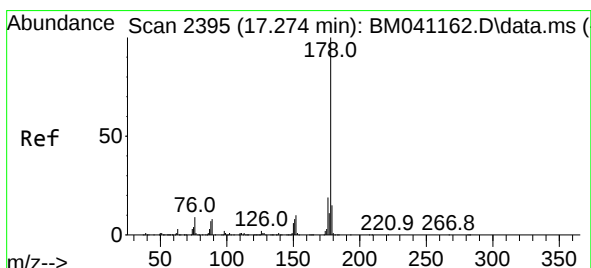
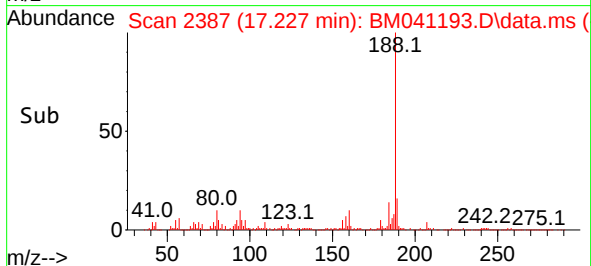
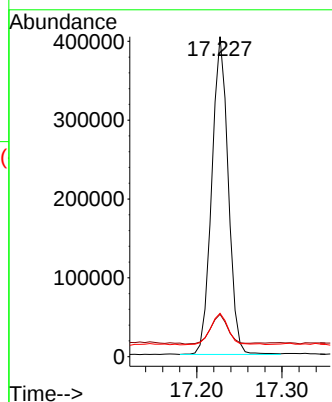
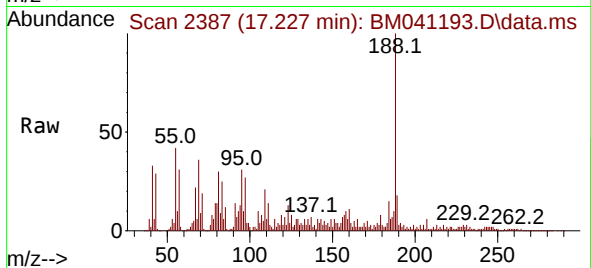
CHRT-20430

Tgt Ion:188 Resp: 54070
Ion Ratio Lower Upper
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94 13.3 8.2 12.2
80 13.6 8.6 13.0

Manual Integrations

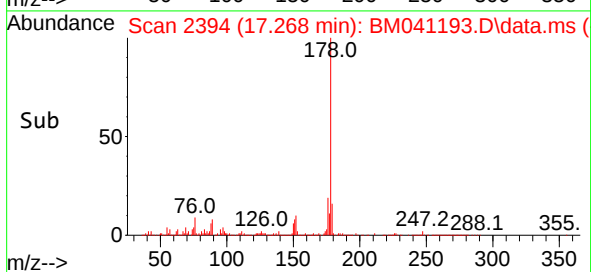
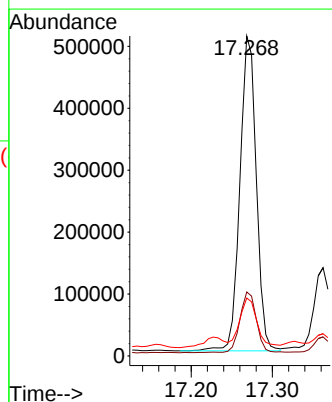
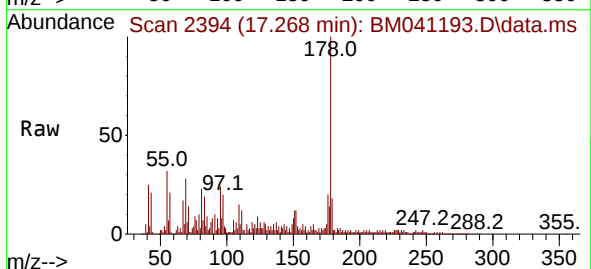
APPROVED

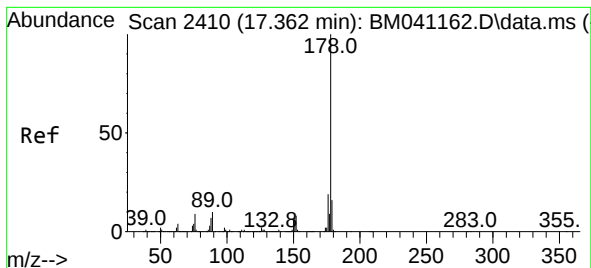
Reviewed By :Yogesh Patel 08/01/2023
Supervised By :mohammad ahmed 08/01/2023



#71
Phenanthrene
Concen: 23.706 ng
RT: 17.268 min Scan# 2394
Delta R.T. 0.000 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26

Tgt Ion:178 Resp: 712169
Ion Ratio Lower Upper
178 100
176 20.0 15.6 23.4
179 18.1 12.1 18.1#





#72

Anthracene

Concen: 6.211 ng m

RT: 17.363 min Scan# 2410

Delta R.T. 0.006 min

Lab File: BM041193.D

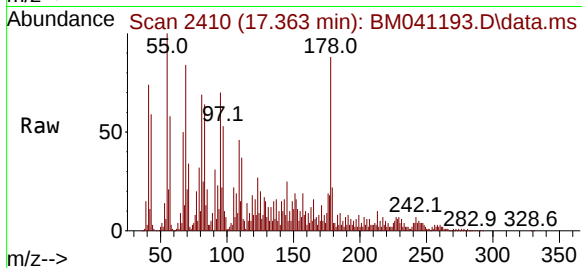
Acq: 31 Jul 2023 17:26

Instrument :

BNA_M

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Tgt Ion:178 Resp: 184544

Ion Ratio Lower Upper

178 100

176 21.5 15.2 22.8

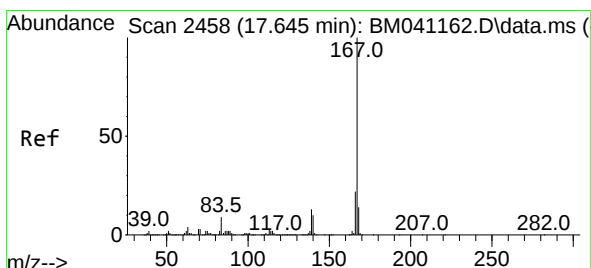
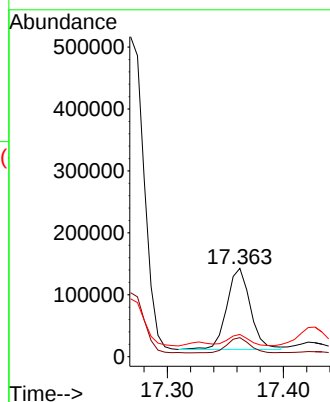
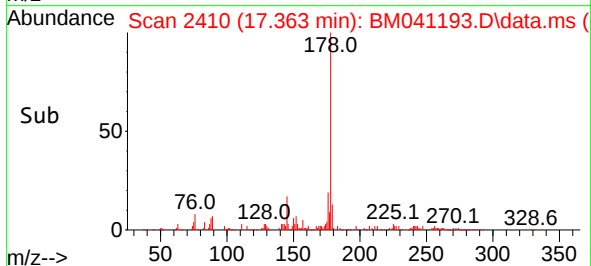
179 25.1 12.4 18.6

Manual Integrations

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Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#73

Carbazole

Concen: 3.326 ng

RT: 17.645 min Scan# 2458

Delta R.T. 0.006 min

Lab File: BM041193.D

Acq: 31 Jul 2023 17:26

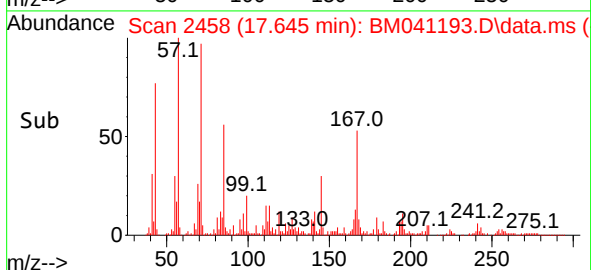
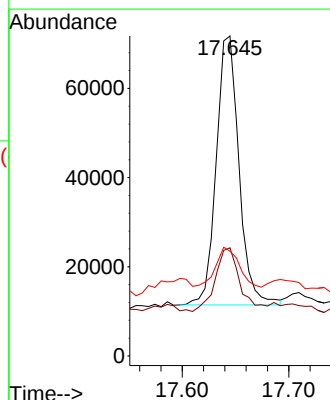
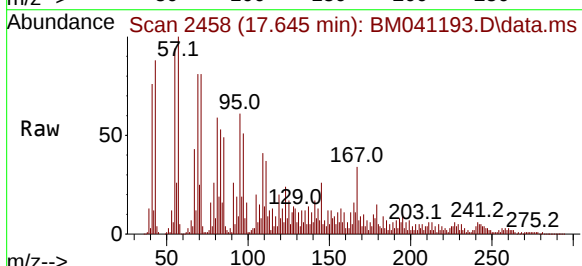
Tgt Ion:167 Resp: 89435

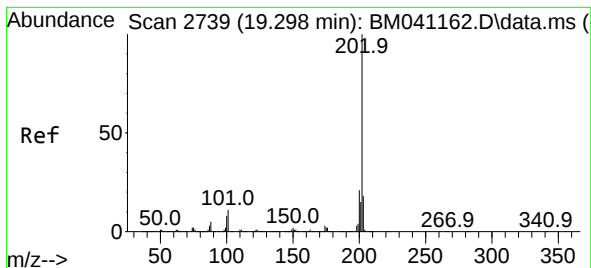
Ion Ratio Lower Upper

167 100

166 33.8 17.3 25.9#

139 32.8 10.3 15.5#





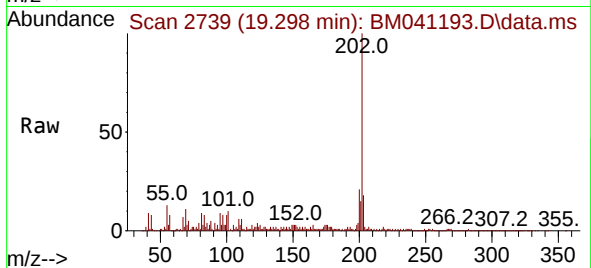
#75
Fluoranthene
Concen: 43.081 ng
RT: 19.298 min Scan# 21
Delta R.T. 0.006 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26

Instrument :

BNA_M

ClientSampleId :

CHRT-20430



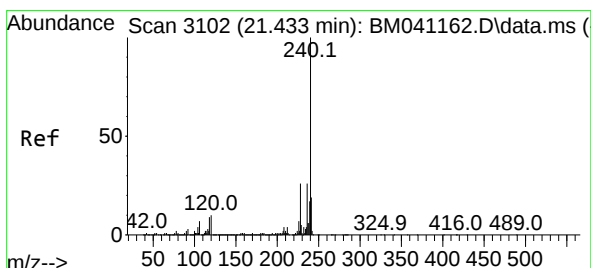
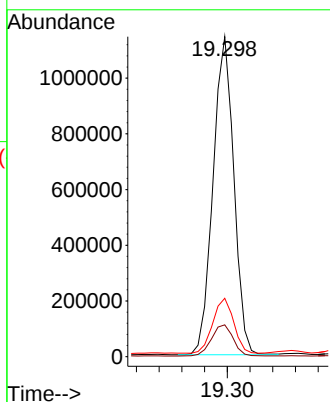
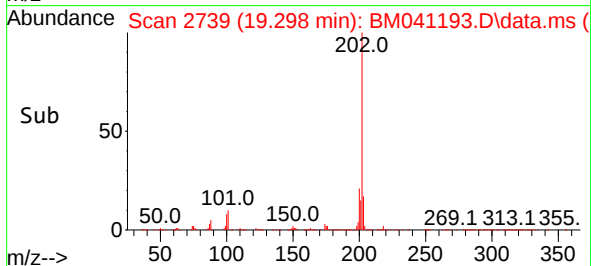
Tgt Ion:202 Resp: 145404
Ion Ratio Lower Upper
202 100
101 10.0 0.0 30.8
203 18.3 0.0 37.6

Manual Integrations

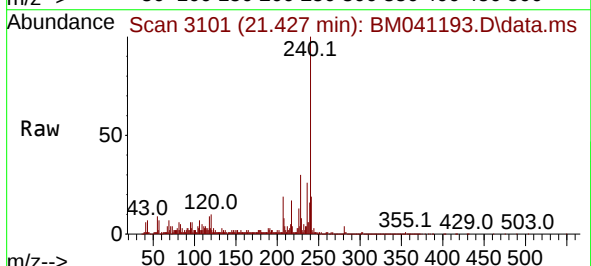
APPROVED

Reviewed By :Yogesh Patel 08/01/2023

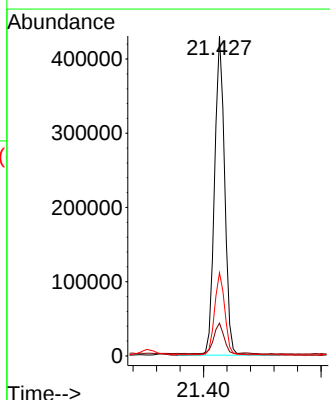
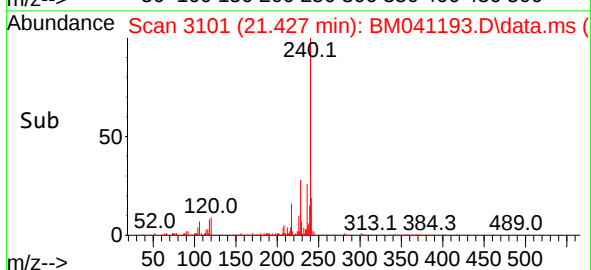
Supervised By :mohammad ahmed 08/01/2023

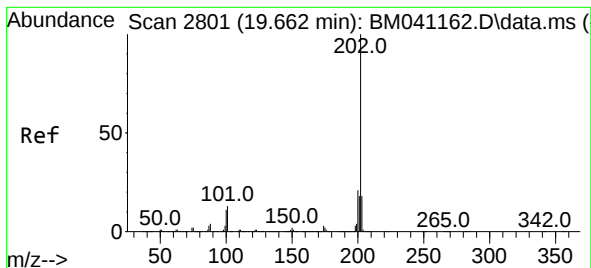


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.427 min Scan# 3101
Delta R.T. 0.000 min
Lab File: BM041193.D
Acq: 31 Jul 2023 17:26



Tgt Ion:240 Resp: 512705
Ion Ratio Lower Upper
240 100
120 10.3 8.3 12.5
236 26.0 20.6 30.8





#78

Pyrene

Concen: 39.018 ng

RT: 19.662 min Scan# 2801

Delta R.T. 0.006 min

Lab File: BM041193.D

Acq: 31 Jul 2023 17:26

Instrument :

BNA_M

ClientSampleId :

CHRT-20430

Tgt Ion:202 Resp: 139896

Ion Ratio Lower Upper

202 100

200 21.0 16.9 25.3

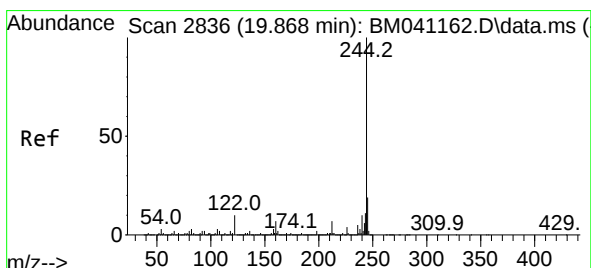
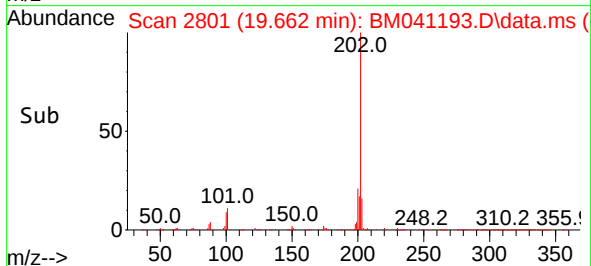
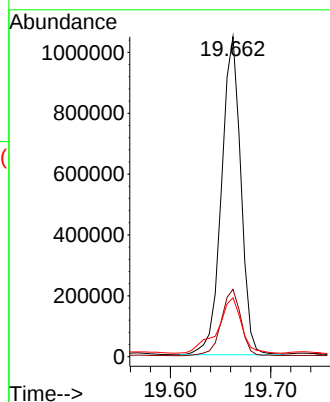
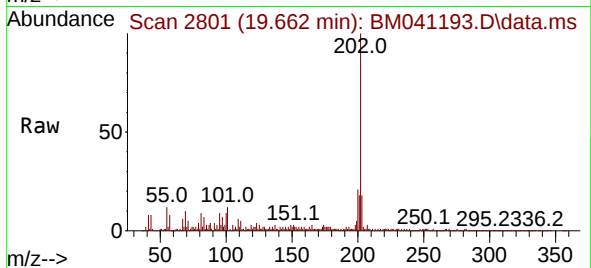
203 18.4 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#79

Terphenyl-d14

Concen: 41.906 ng

RT: 19.862 min Scan# 2835

Delta R.T. 0.000 min

Lab File: BM041193.D

Acq: 31 Jul 2023 17:26

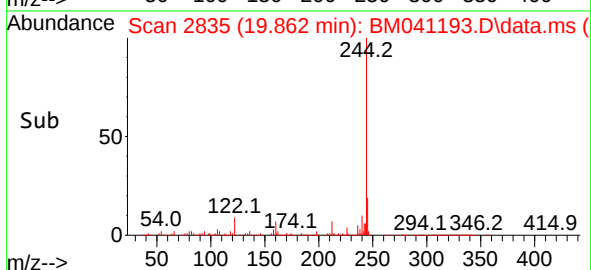
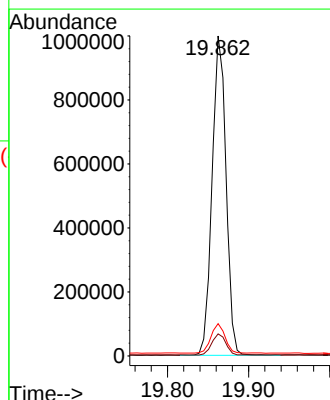
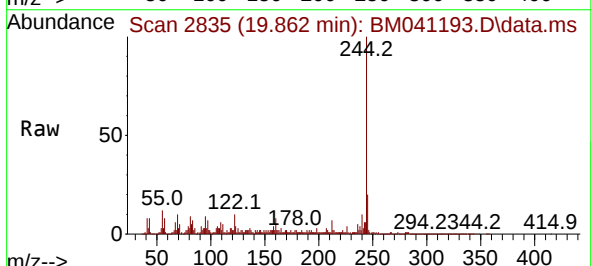
Tgt Ion:244 Resp: 1188316

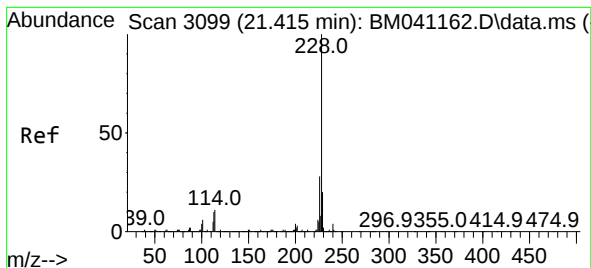
Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.2

122 10.1 7.8 11.6





#81

Benzo(a)anthracene

Concen: 22.714 ng

RT: 21.409 min Scan# 3099

Delta R.T. 0.000 min

Lab File: BM041193.D

Acq: 31 Jul 2023 17:26

Instrument :

BNA_M

ClientSampleId :

CHRT-20430

Tgt Ion:228 Resp: 78949

Ion Ratio Lower Upper

228 100

226 28.2 22.4 33.6

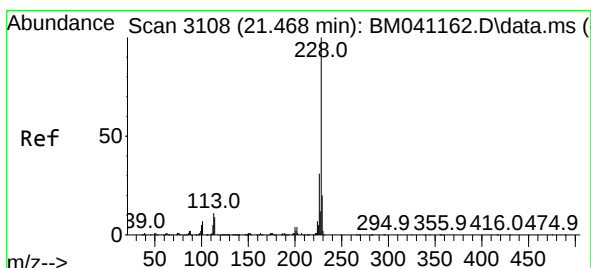
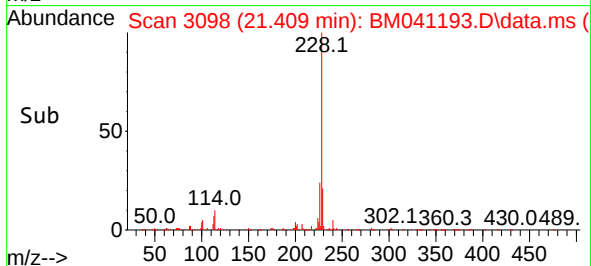
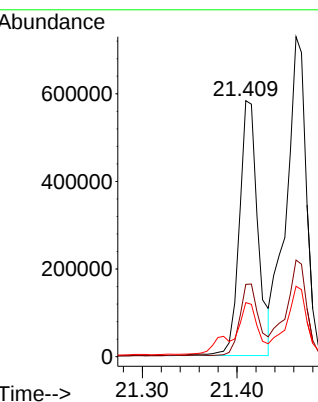
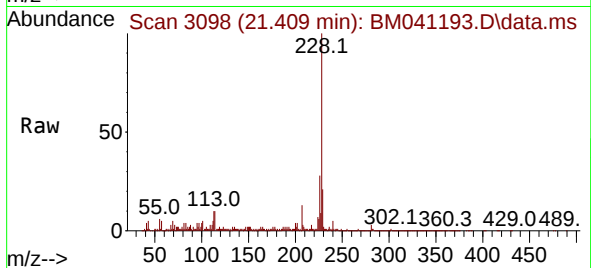
229 21.2 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#83

Chrysene

Concen: 32.026 ng

RT: 21.462 min Scan# 3107

Delta R.T. 0.000 min

Lab File: BM041193.D

Acq: 31 Jul 2023 17:26

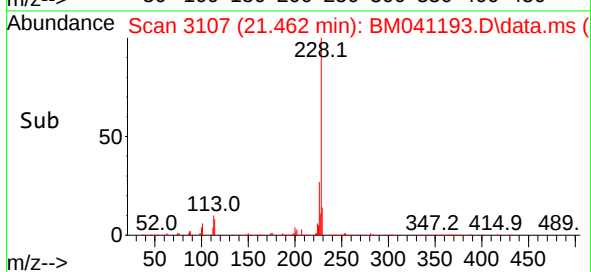
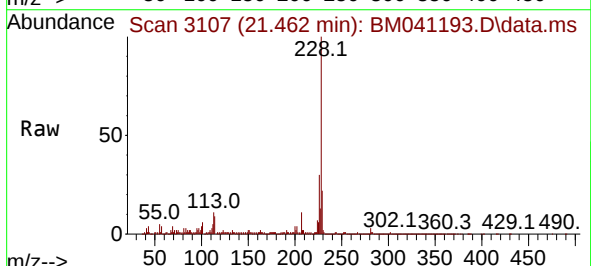
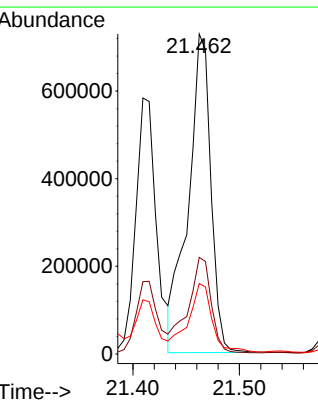
Tgt Ion:228 Resp: 1076656

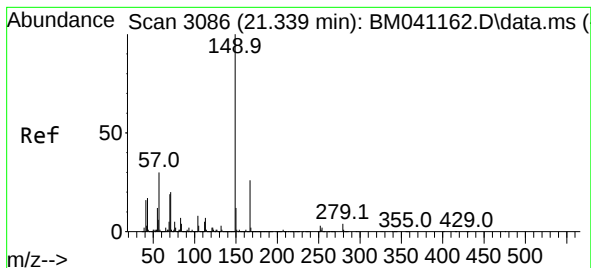
Ion Ratio Lower Upper

228 100

226 30.2 24.5 36.7

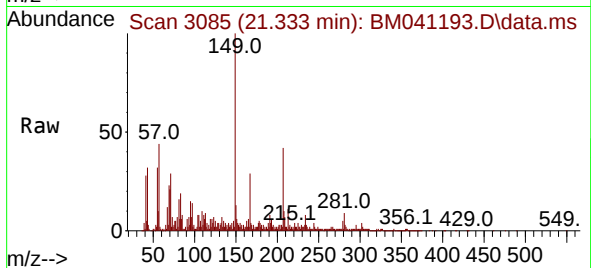
229 22.0 15.8 23.8





#84
 Bis(2-ethylhexyl)phthalate
 Concen: 11.338 ng
 RT: 21.333 min Scan# 3085
 Delta R.T. -0.006 min
 Lab File: BM041193.D
 Acq: 31 Jul 2023 17:26

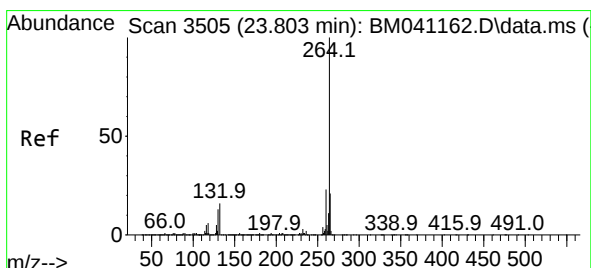
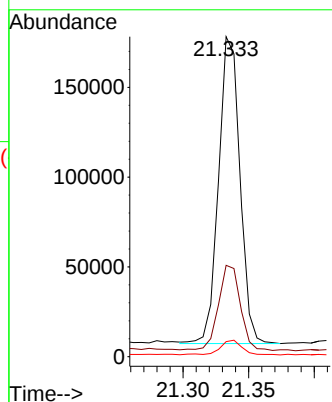
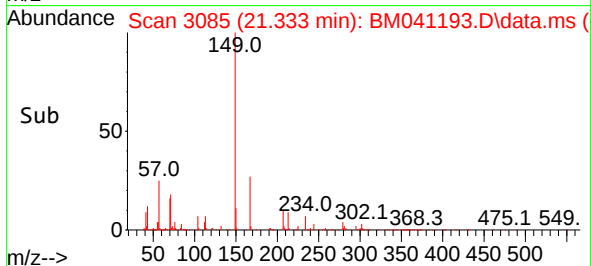
Instrument :
 BNA_M
 ClientSampleId :
 CHRT-20430



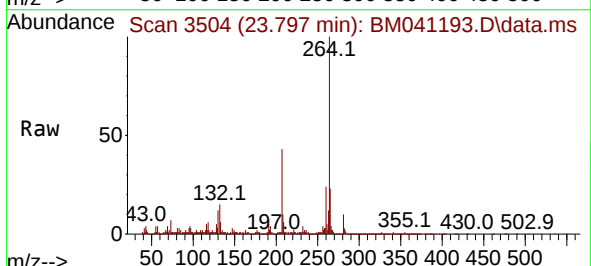
Tgt Ion:149 Resp: 19317
 Ion Ratio Lower Upper
 149 100
 167 28.5 21.0 31.6
 279 4.7 3.1 4.7

Manual Integrations
 APPROVED

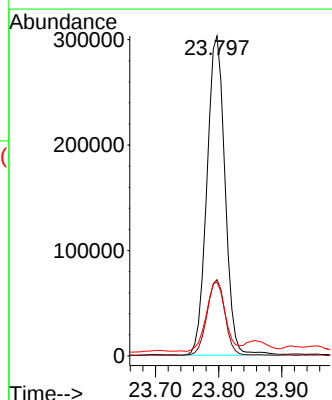
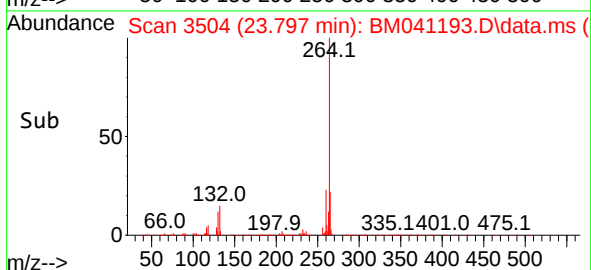
Reviewed By :Yogesh Patel 08/01/2023
 Supervised By :mohammad ahmed 08/01/2023

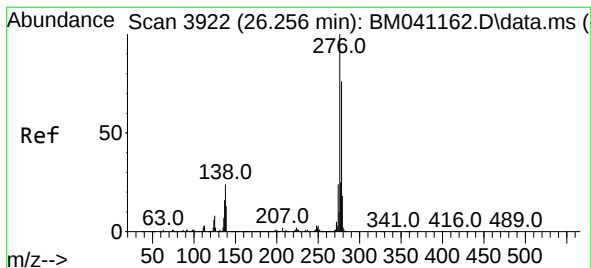


#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.797 min Scan# 3504
 Delta R.T. 0.000 min
 Lab File: BM041193.D
 Acq: 31 Jul 2023 17:26



Tgt Ion:264 Resp: 601989
 Ion Ratio Lower Upper
 264 100
 260 23.8 18.5 27.7
 265 23.2 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.172 ng

RT: 26.238 min Scan# 3919

Delta R.T. -0.006 min

Lab File: BM041193.D

Acq: 31 Jul 2023 17:26

Instrument :

BNA_M

ClientSampleId :

CHRT-20430

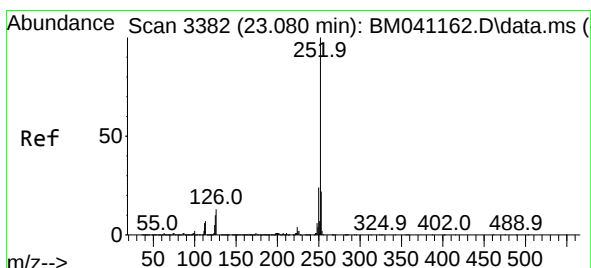
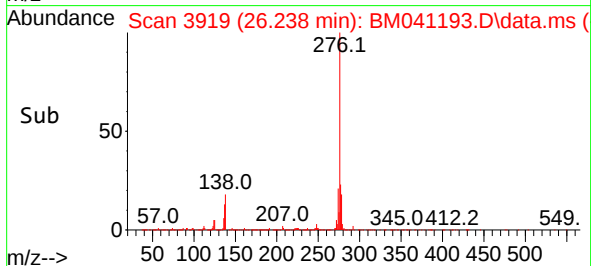
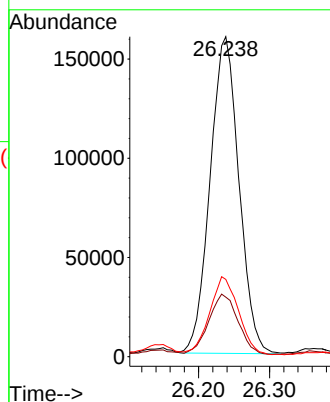
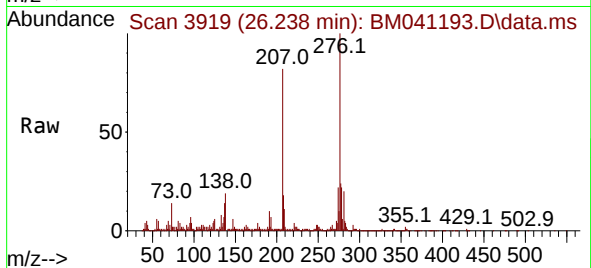
Tgt Ion:	276	Resp:	45021
Ion Ratio	Lower	Upper	
276	100		
138	19.2	20.0	30.0
277	24.3	20.1	30.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#88

Benzo(b)fluoranthene

Concen: 35.625 ng

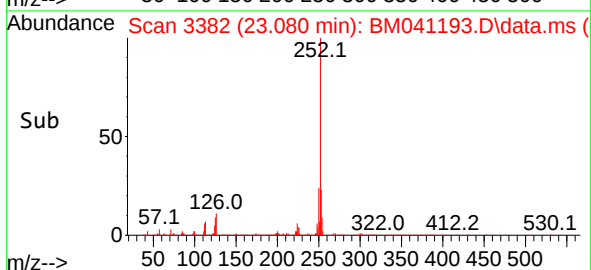
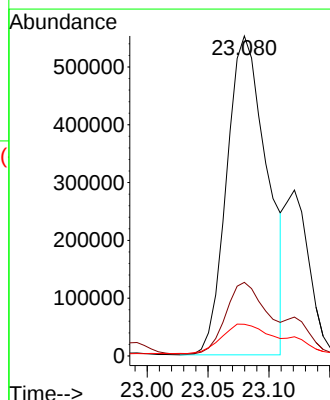
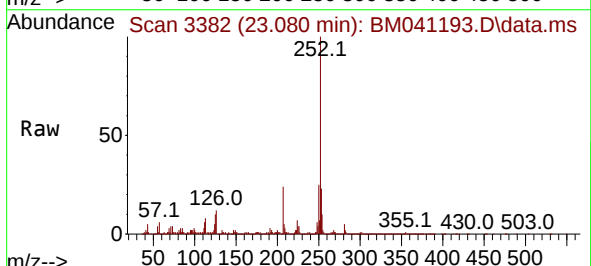
RT: 23.080 min Scan# 3382

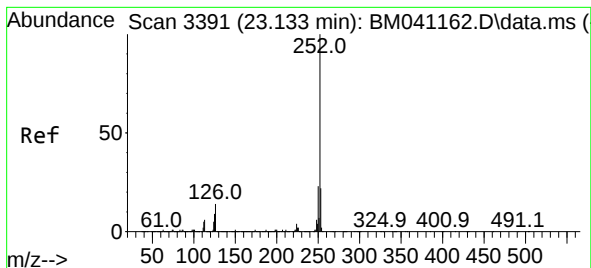
Delta R.T. 0.006 min

Lab File: BM041193.D

Acq: 31 Jul 2023 17:26

Tgt Ion:	252	Resp:	1274030
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.7	26.5
125	9.9	8.2	12.4





#89

Benzo(k)fluoranthene

Concen: 10.730 ng m

RT: 23.121 min Scan# 31

Delta R.T. 0.000 min

Lab File: BM041193.D

Acq: 31 Jul 2023 17:26

Instrument :

BNA_M

ClientSampleId :

CHRT-20430

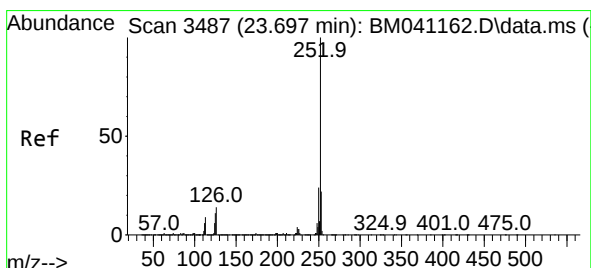
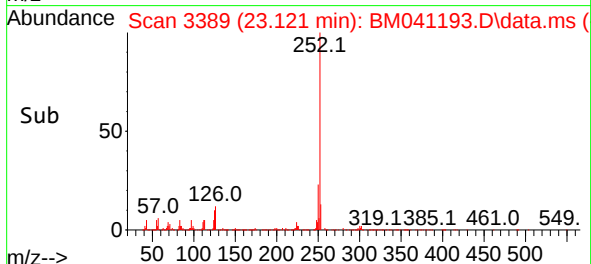
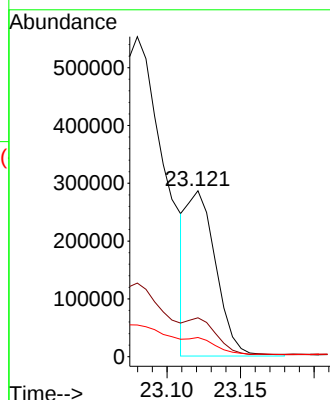
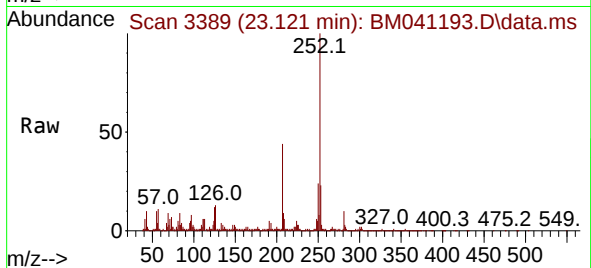
Tgt Ion:	252	Resp:	392500
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.4	26.0
125	11.6	7.6	11.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#90

Benzo(a)pyrene

Concen: 20.155 ng

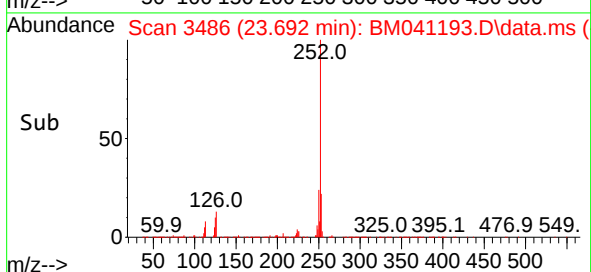
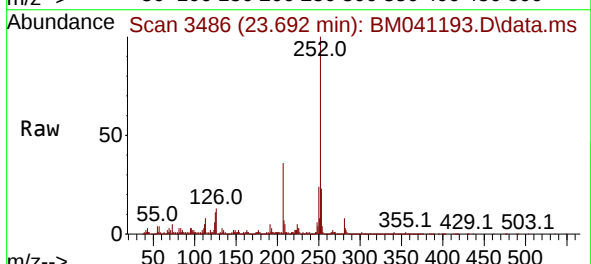
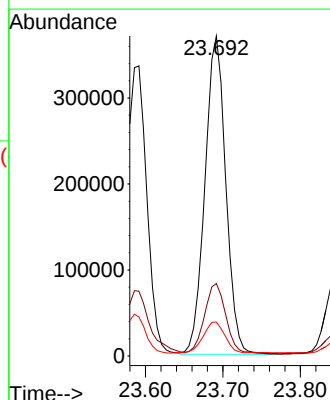
RT: 23.692 min Scan# 3486

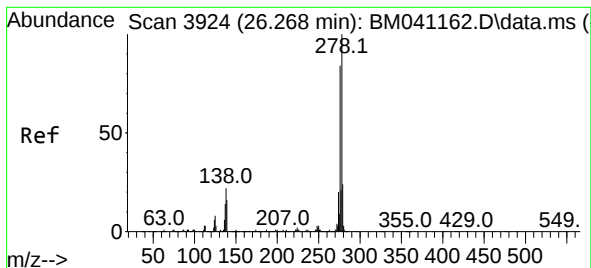
Delta R.T. 0.000 min

Lab File: BM041193.D

Acq: 31 Jul 2023 17:26

Tgt Ion:	252	Resp:	692559
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.3	25.9
125	10.6	9.0	13.4





#91

Dibenzo(a,h)anthracene

Concen: 3.210 ng m

RT: 26.238 min Scan# 3924

Delta R.T. -0.018 min

Lab File: BM041193.D

Acq: 31 Jul 2023 17:26

Instrument :

BNA_M

ClientSampleId :

CHRT-20430

Tgt Ion:278 Resp: 11849

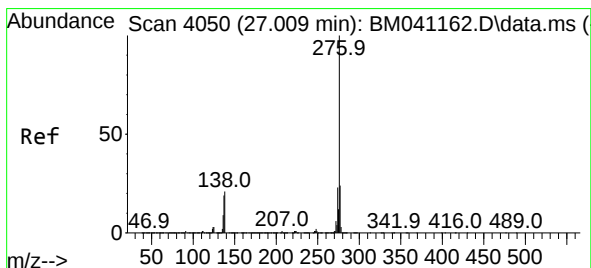
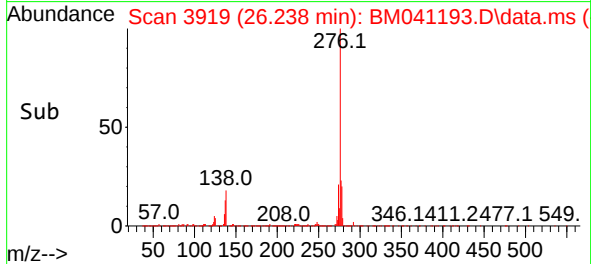
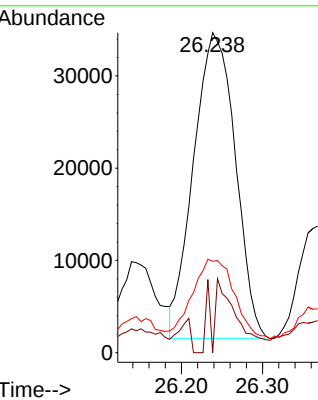
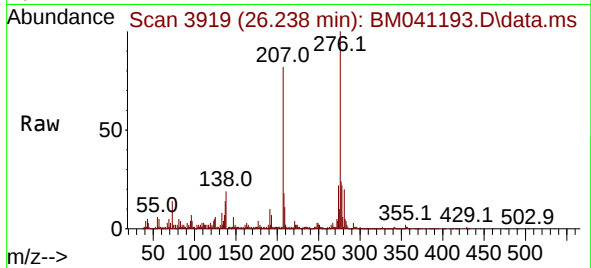
Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.7	19.1
279	28.5	19.1	28.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/01/2023

Supervised By :mohammad ahmed 08/01/2023



#92

Benzo(g,h,i)perylene

Concen: 11.120 ng

RT: 26.991 min Scan# 4047

Delta R.T. -0.006 min

Lab File: BM041193.D

Acq: 31 Jul 2023 17:26

Tgt Ion:276 Resp: 401686

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.1	28.7
138	20.7	17.1	25.7

