

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102523\
 Data File : BM042451.D
 Acq On : 25 Oct 2023 23:21
 Operator : MA/JU
 Sample : 04841-02DL 10X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 M-3(0-5)DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/26/2023
 Supervised By :mohammad ahmed 10/26/2023

Quant Time: Oct 26 00:51:34 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Oct 21 02:32:53 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.992	152	121724	20.000	ng	0.00
21) Naphthalene-d8	10.816	136	493791	20.000	ng	0.00
39) Acenaphthene-d10	14.639	164	294439	20.000	ng	0.00
64) Phenanthrene-d10	17.392	188	618923	20.000	ng	0.00
76) Chrysene-d12	21.568	240	518395	20.000	ng	-0.01
86) Perylene-d12	24.033	264	578183	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	92304	10.717	ng	0.00
7) Phenol-d6	7.145	99	117996	10.223	ng	0.00
23) Nitrobenzene-d5	9.186	82	71116	6.369	ng	-0.01
42) 2,4,6-Tribromophenol	16.133	330	36942	19.796	ng	0.00
45) 2-Fluorobiphenyl	13.257	172	151861	6.945	ng	-0.01
79) Terphenyl-d14	19.998	244	217639	7.446	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.863	128	52328	2.063	ng	100
38) 1-Methylnaphthalene	12.686	142	159875	9.995	ng	99
49) Acenaphthylene	14.368	152	525417	18.991	ng	100
52) Acenaphthene	14.704	154	79712	4.766	ng	99
55) Dibenzofuran	15.033	168	72052	2.724	ng	99
58) Fluorene	15.686	166	227895	10.917	ng	98
71) Phenanthrene	17.433	178	2091597	62.121	ng	99
72) Anthracene	17.521	178	689047	20.664	ng	99
75) Fluoranthene	19.445	202	1365923	36.835	ng	97
78) Pyrene	19.809	202	2049182	56.568	ng	99
81) Benzo(a)anthracene	21.550	228	767541	22.086	ng	95
83) Chrysene	21.609	228	706715	21.173	ng	95
87) Indeno(1,2,3-cd)pyrene	26.609	276	306140	7.245	ng	# 91
88) Benzo(b)fluoranthene	23.274	252	640610m	18.407	ng	
89) Benzo(k)fluoranthene	23.315	252	178222m	4.932	ng	
90) Benzo(a)pyrene	23.921	252	664115	19.826	ng	98
91) Dibenzo(a,h)anthracene	26.621	278	99716	2.838	ng	# 81
92) Benzo(g,h,i)perylene	27.421	276	331857	9.727	ng	93

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

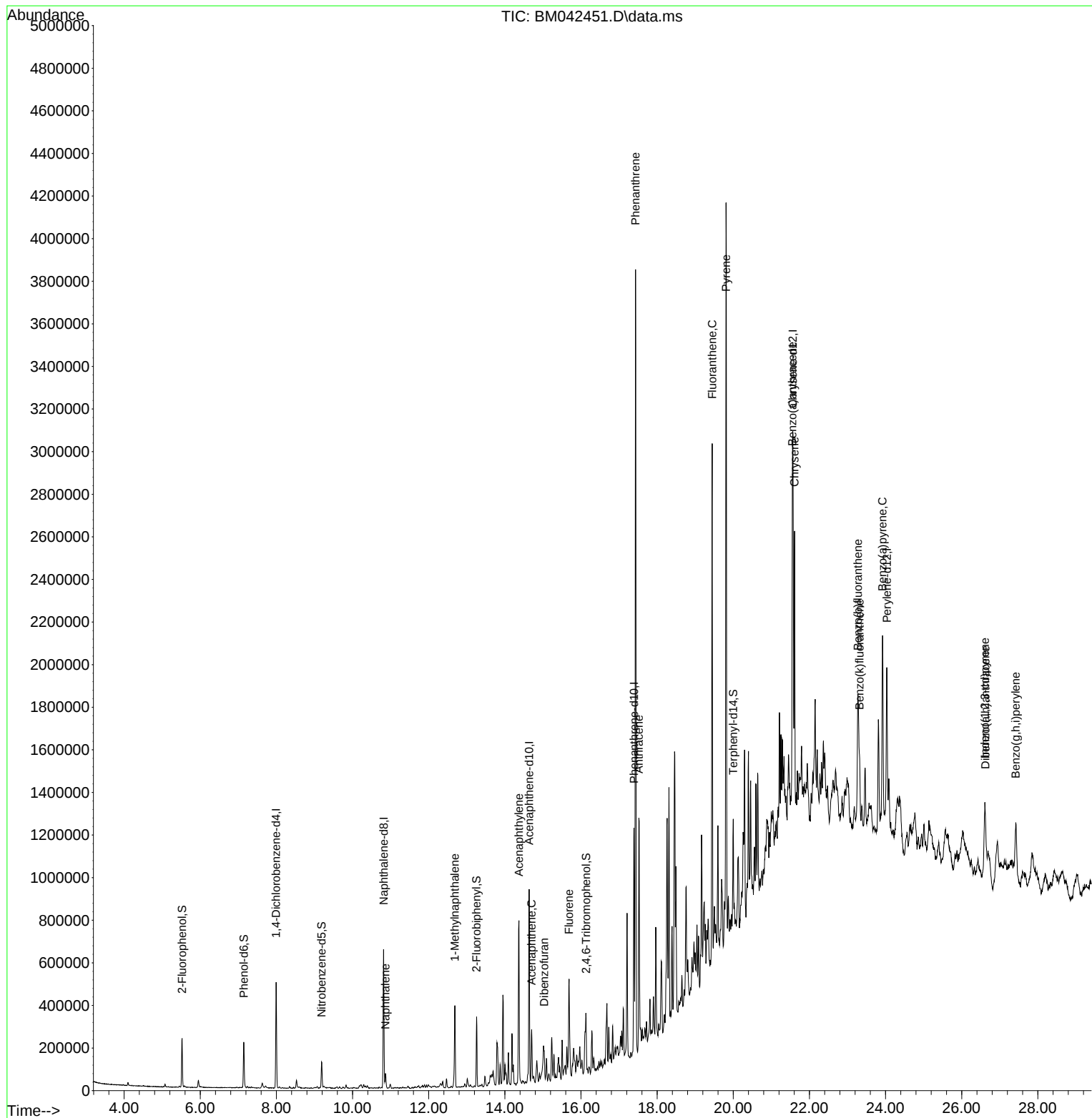
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102523\
Data File : BM042451.D
Acq On : 25 Oct 2023 23:21
Operator : MA/JU
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Misc :
ALS Vial : 20 Sample Multiplier: 1

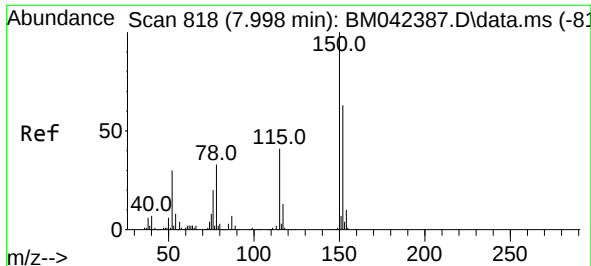
Instrument :
BNA_M
ClientSampleId :
M-3(0-5)DL

Quant Time: Oct 26 00:51:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Oct 21 02:32:53 2023
Response via : Initial Calibration

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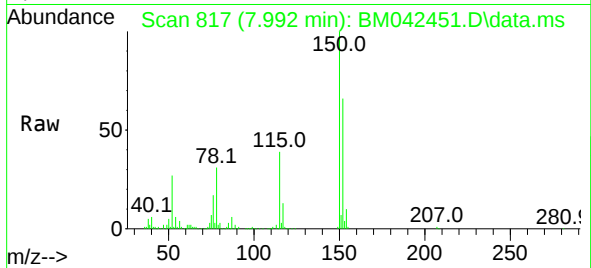
Reviewed By :Yogesh Patel 10/26/2023
Supervised By :mohammad ahmed 10/26/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.992 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

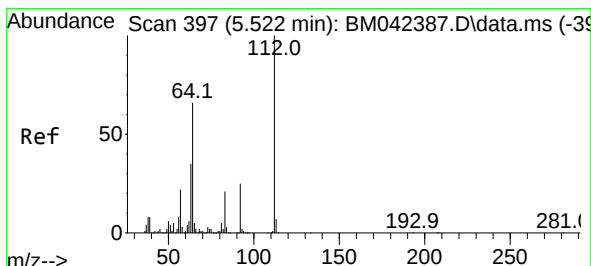
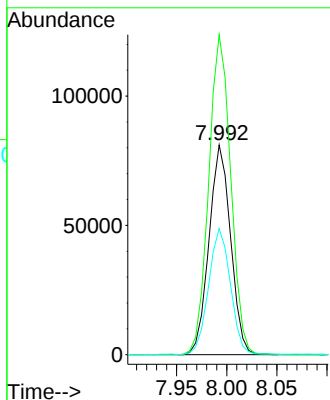
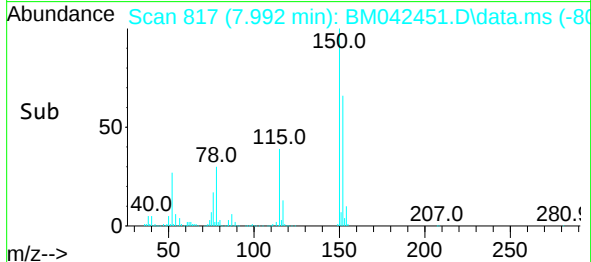
Instrument :
BNA_M
ClientSampleId :
M-3(0-5)DL



Tgt Ion:152 Resp: 121724
Ion Ratio Lower Upper
152 100
150 152.6 126.2 189.4
115 60.1 51.9 77.9

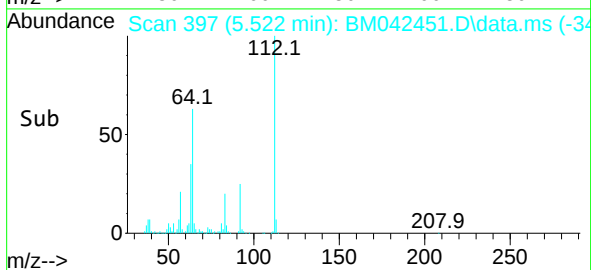
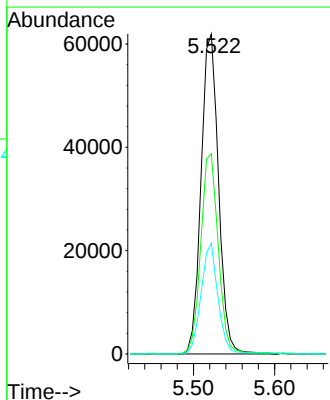
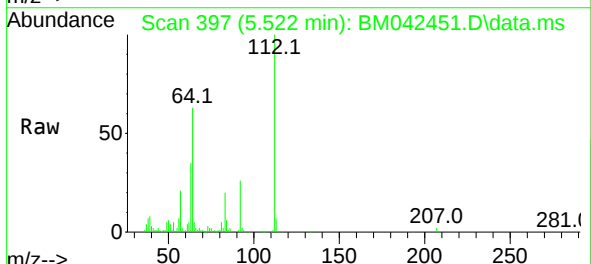
Manual Integrations
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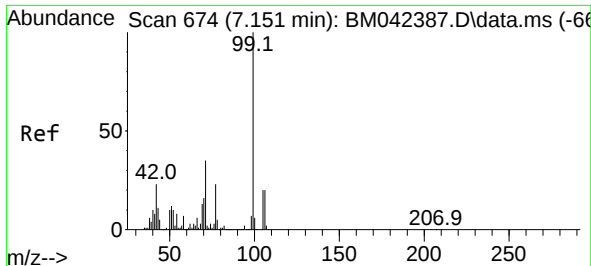
Reviewed By :Yogesh Patel 10/26/2023
Supervised By :mohammad ahmed 10/26/2023



#5
2-Fluorophenol
Concen: 10.717 ng
RT: 5.522 min Scan# 397
Delta R.T. 0.000 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

Tgt Ion:112 Resp: 92304
Ion Ratio Lower Upper
112 100
64 62.6 52.7 79.1
63 34.7 28.3 42.5





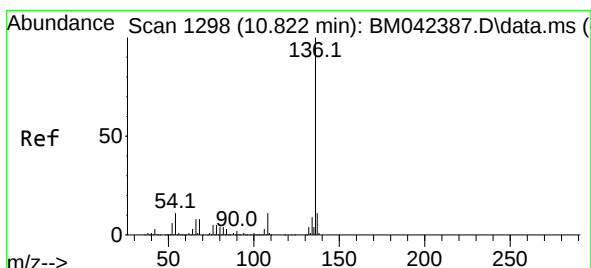
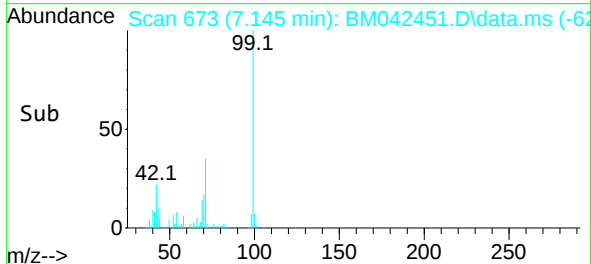
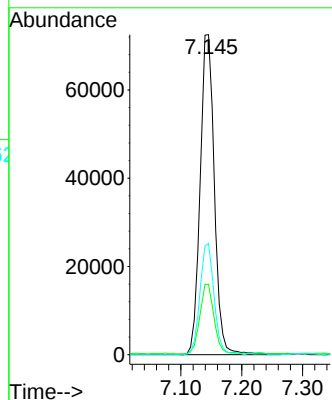
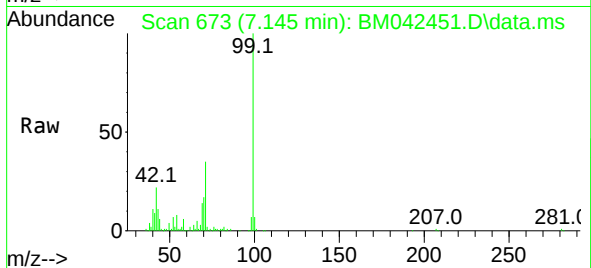
#7
Phenol-d6
Concen: 10.223 ng
RT: 7.145 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)DL

Tgt Ion: 99 Resp: 117990
Ion Ratio Lower Upper
99 100
42 22.0 18.5 27.7
71 34.8 27.7 41.5

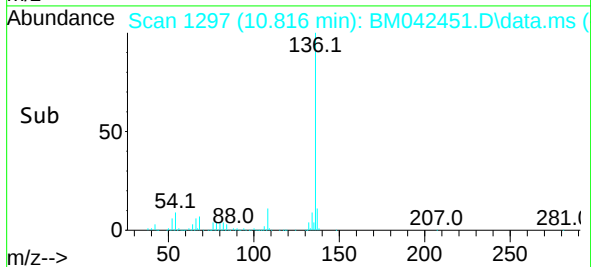
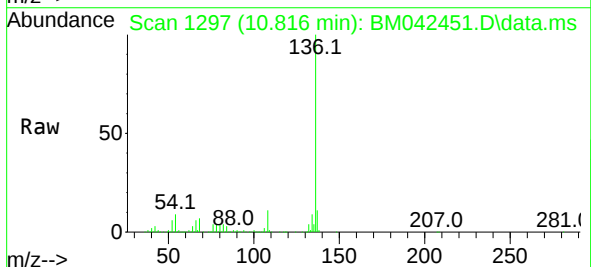
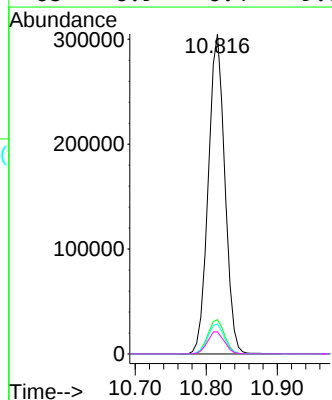
Manual Integrations
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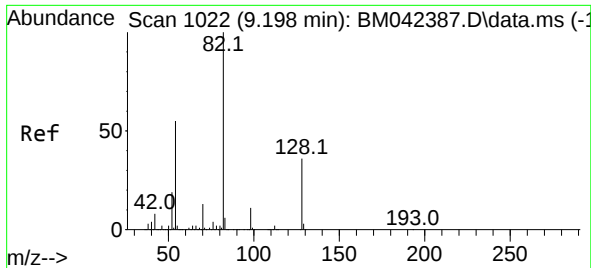
Reviewed By :Yogesh Patel 10/26/2023
Supervised By :mohammad ahmed 10/26/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.816 min Scan# 1297
Delta R.T. -0.006 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

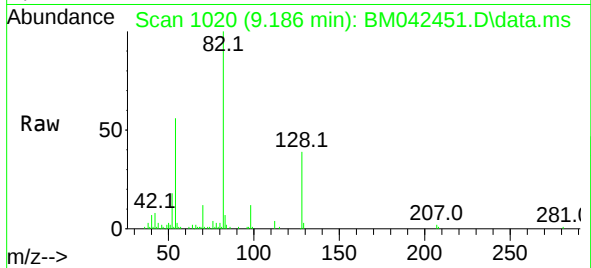
Tgt Ion:136 Resp: 493791
Ion Ratio Lower Upper
136 100
137 10.7 8.5 12.7
54 9.4 8.6 12.8
68 6.9 6.4 9.6





#23
Nitrobenzene-d5
Concen: 6.369 ng
RT: 9.186 min Scan# 1022
Delta R.T. -0.012 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

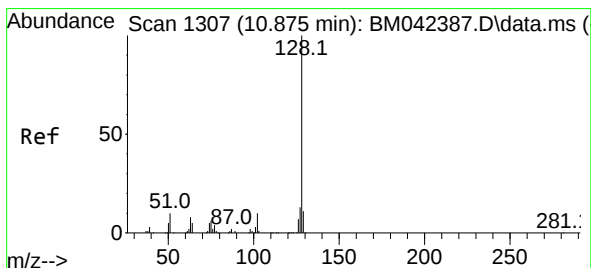
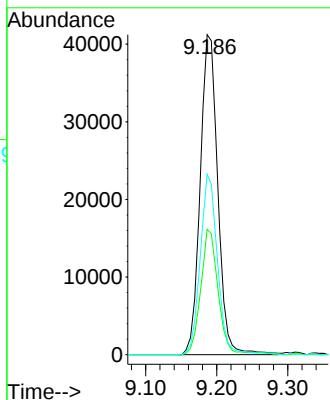
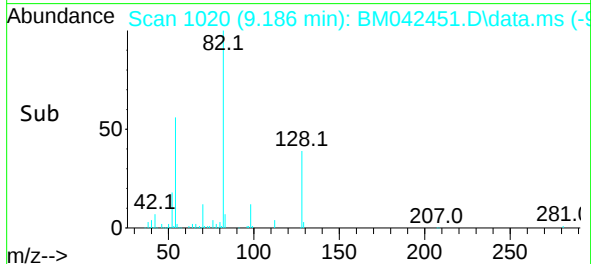
Instrument :
BNA_M
ClientSampleId :
M-3(0-5)DL



Tgt Ion: 82 Resp: 71110
Ion Ratio Lower Upper
82 100
128 39.2 29.0 43.6
54 56.4 43.7 65.5

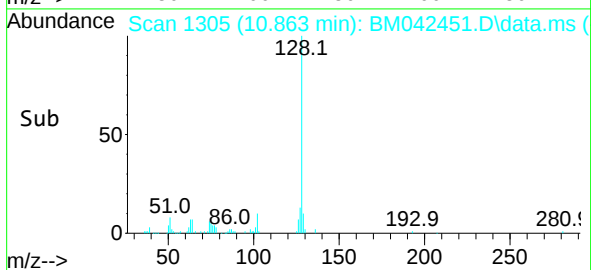
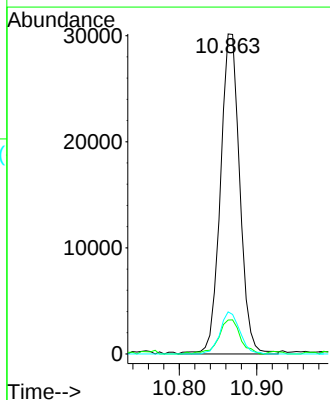
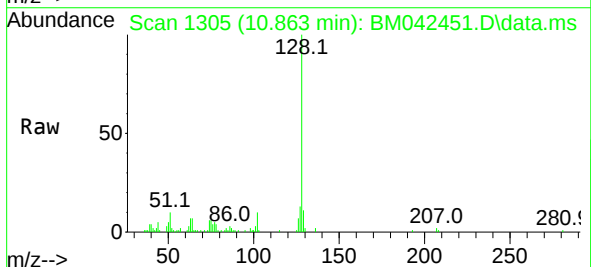
Manual Integrations
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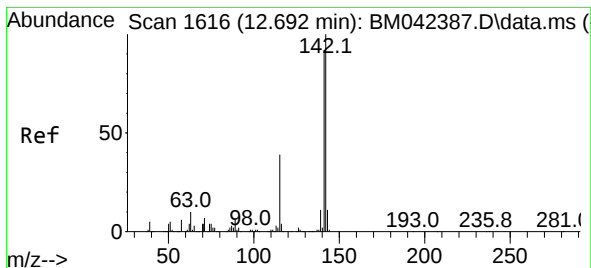
Reviewed By :Yogesh Patel 10/26/2023
Supervised By :mohammad ahmed 10/26/2023



#31
Naphthalene
Concen: 2.063 ng
RT: 10.863 min Scan# 1305
Delta R.T. -0.012 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

Tgt Ion:128 Resp: 52328
Ion Ratio Lower Upper
128 100
129 10.6 8.6 13.0
127 13.1 10.4 15.6





#38

1-Methylnaphthalene

Concen: 9.995 ng

RT: 12.686 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM042451.D

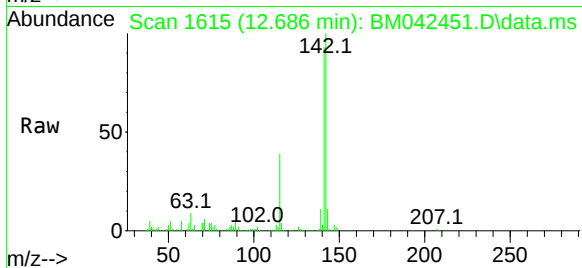
Acq: 25 Oct 2023 23:21

Instrument :

BNA_M

ClientSampleId :

M-3(0-5)DL



Tgt Ion:142 Resp: 15987

Ion Ratio Lower Upper

142 100

141 93.2 73.8 110.6

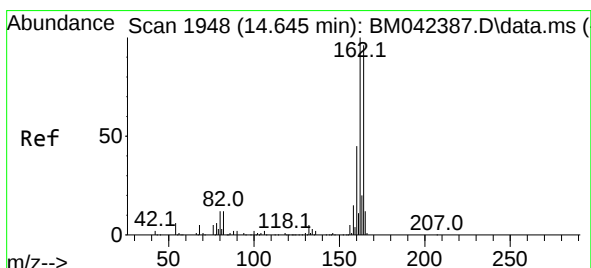
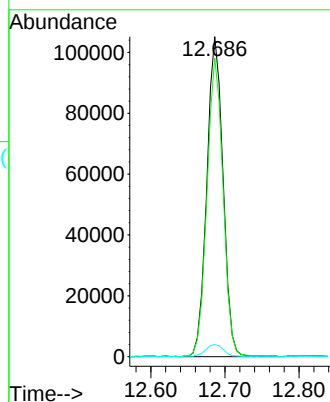
116 3.8 3.3 4.9

Manual Integrations

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Reviewed By :Yogesh Patel 10/26/2023

Supervised By :mohammad ahmed 10/26/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.639 min Scan# 1947

Delta R.T. -0.006 min

Lab File: BM042451.D

Acq: 25 Oct 2023 23:21

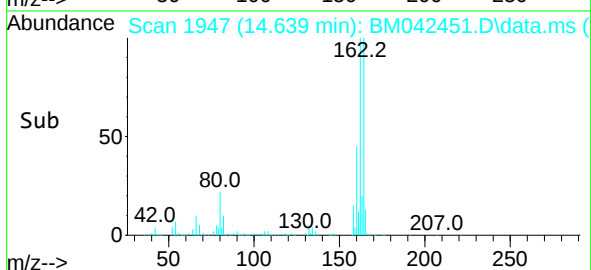
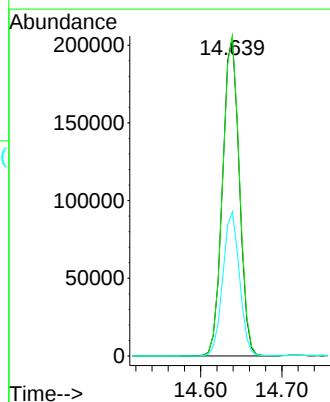
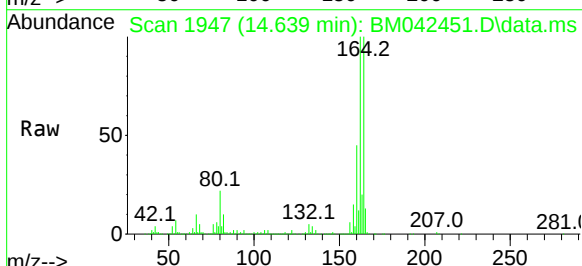
Tgt Ion:164 Resp: 294439

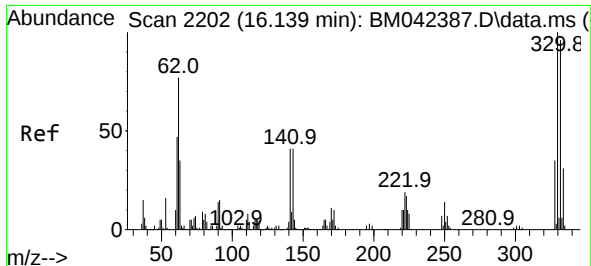
Ion Ratio Lower Upper

164 100

162 100.3 83.0 124.4

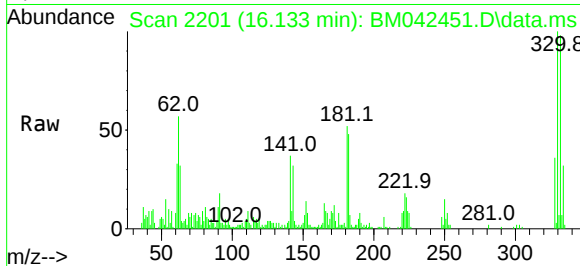
160 45.2 37.0 55.4





#42
2,4,6-Tribromophenol
Concen: 19.796 ng
RT: 16.133 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

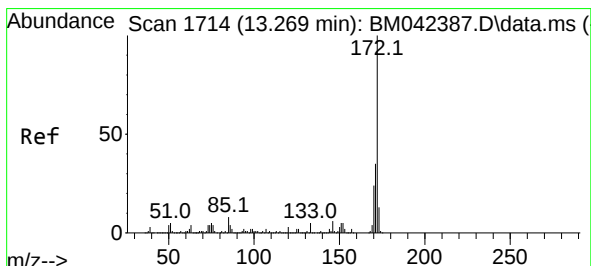
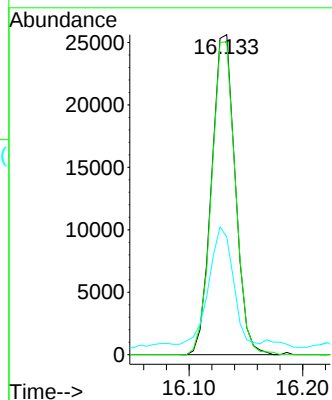
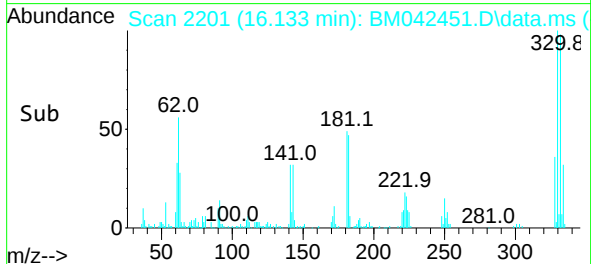
Instrument :
BNA_M
ClientSampleId :
M-3(0-5)DL



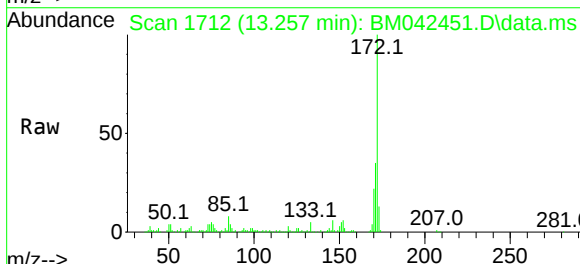
Tgt Ion:330 Resp: 3694
Ion Ratio Lower Upper
330 100
332 98.9 77.6 116.4
141 42.3 38.0 57.0

Manual Integrations
APPROVED

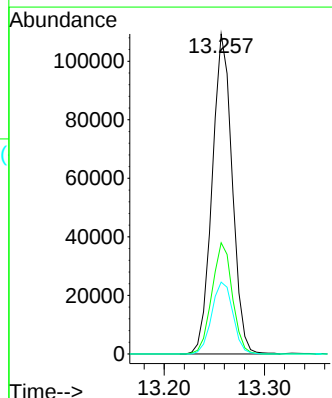
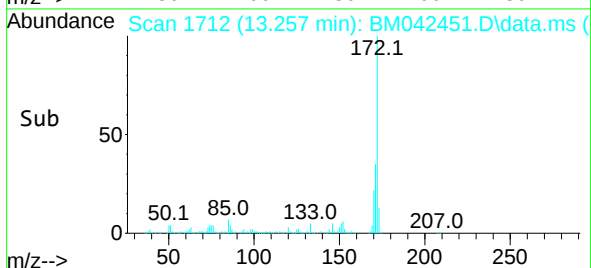
Reviewed By :Yogesh Patel 10/26/2023
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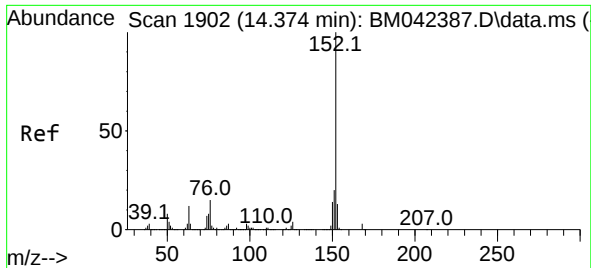


#45
2-Fluorobiphenyl
Concen: 6.945 ng
RT: 13.257 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21



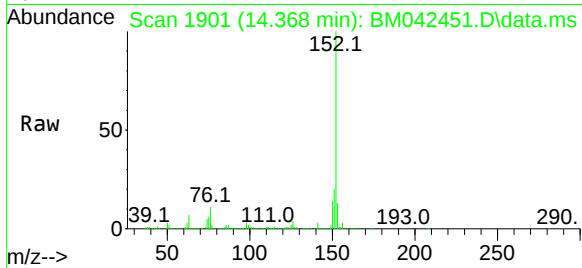
Tgt Ion:172 Resp: 151861
Ion Ratio Lower Upper
172 100
171 34.8 28.1 42.1
170 22.5 18.9 28.3





#49
Acenaphthylene
Concen: 18.991 ng
RT: 14.368 min Scan# 1901
Delta R.T. -0.006 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

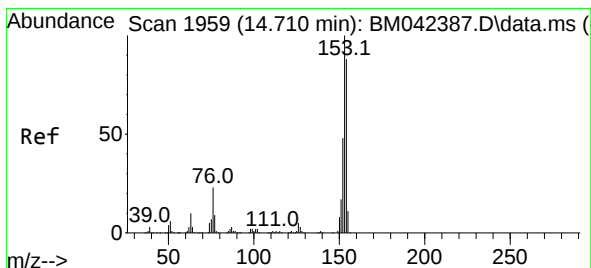
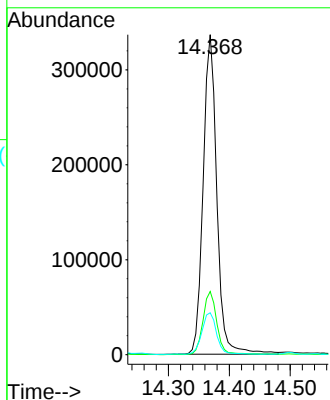
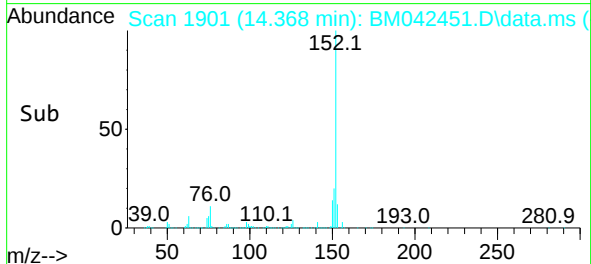
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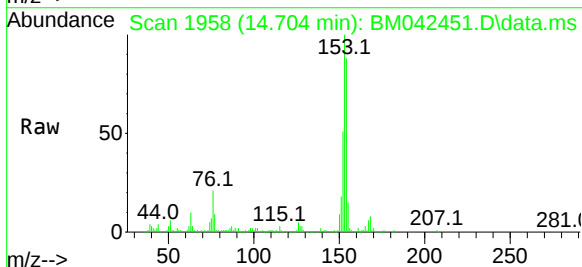
Tgt Ion:152 Resp: 52541
Ion Ratio Lower Upper
152 100
151 19.8 15.9 23.9
153 13.1 10.5 15.7

Manual Integrations
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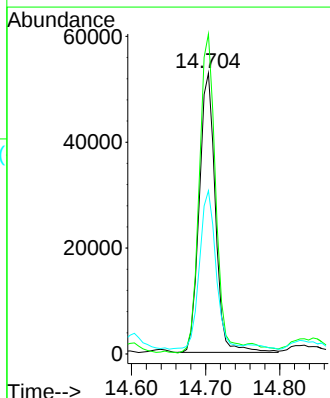
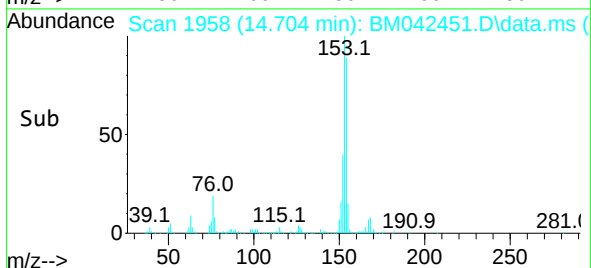
Reviewed By :Yogesh Patel 10/26/2023
Supervised By :mohammad ahmed 10/26/2023

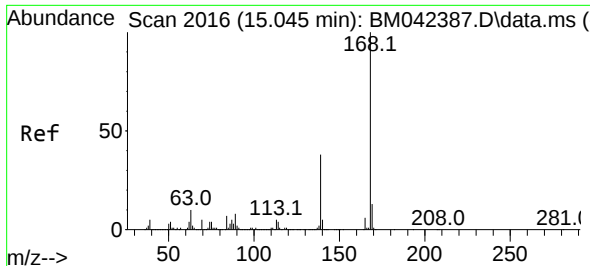


#52
Acenaphthene
Concen: 4.766 ng
RT: 14.704 min Scan# 1958
Delta R.T. -0.006 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21



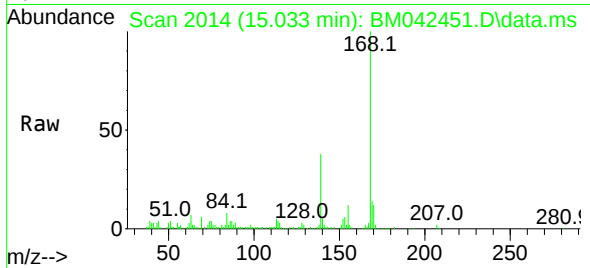
Tgt Ion:154 Resp: 79712
Ion Ratio Lower Upper
154 100
153 113.9 91.1 136.7
152 58.1 44.0 66.0





#55
Dibenzenofuran
Concen: 2.724 ng
RT: 15.033 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

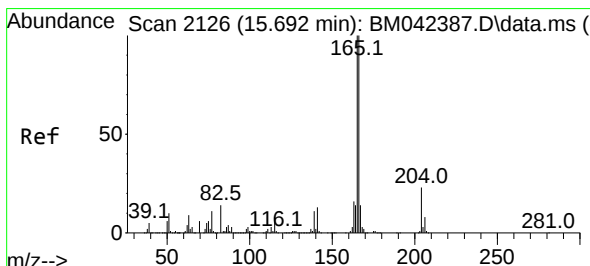
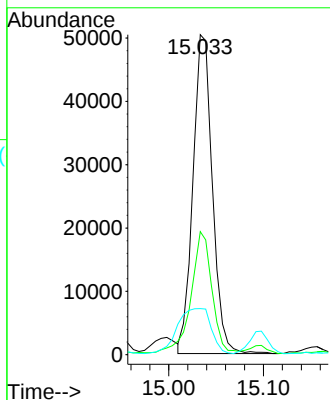
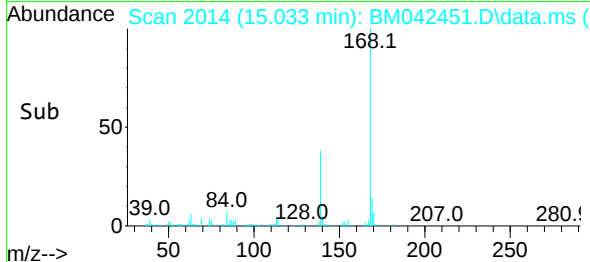
Instrument :
BNA_M
ClientSampleId :
M-3(0-5)DL



Tgt Ion:168 Resp: 72052
Ion Ratio Lower Upper
168 100
139 38.4 30.6 46.0
169 14.4 10.4 15.6

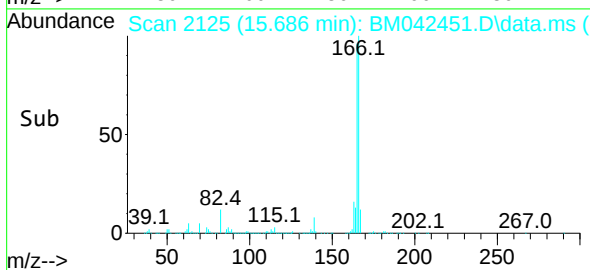
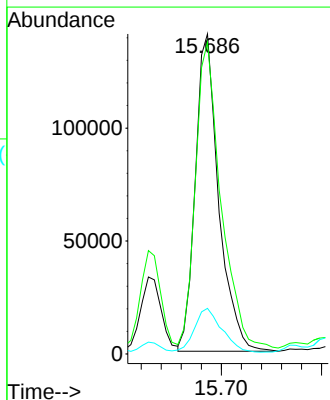
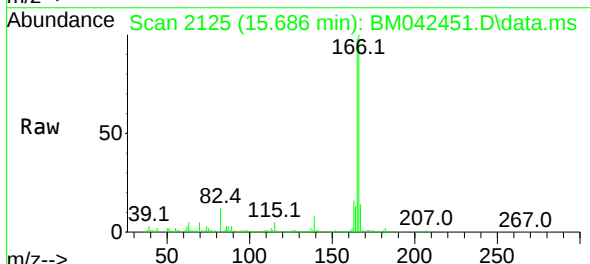
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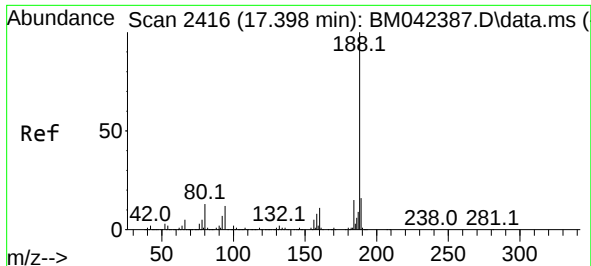
Reviewed By :Yogesh Patel 10/26/2023
Supervised By :mohammad ahmed 10/26/2023



#58
Fluorene
Concen: 10.917 ng
RT: 15.686 min Scan# 2125
Delta R.T. -0.006 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

Tgt Ion:166 Resp: 227895
Ion Ratio Lower Upper
166 100
165 97.5 79.6 119.4
167 14.2 10.9 16.3





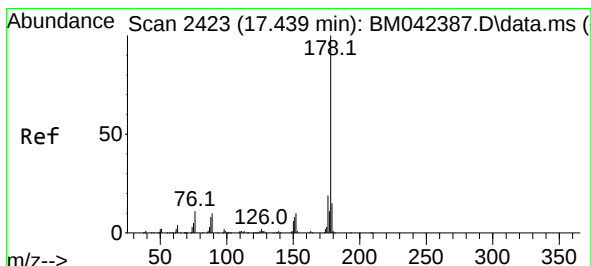
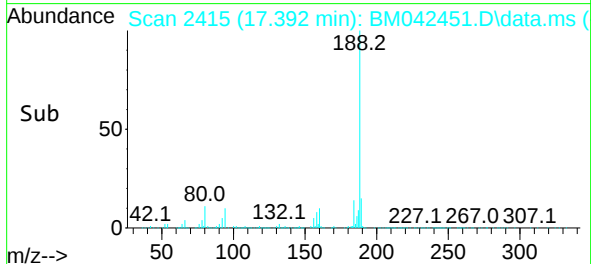
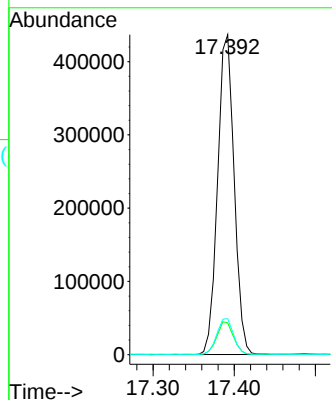
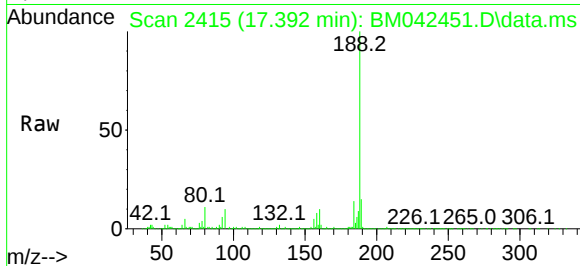
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.392 min Scan# 2415
Delta R.T. -0.006 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)DL

Tgt Ion:188 Resp: 61892
Ion Ratio Lower Upper
188 100
94 9.9 9.4 14.0
80 11.3 10.7 16.1

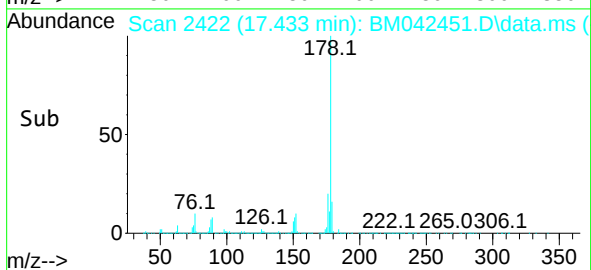
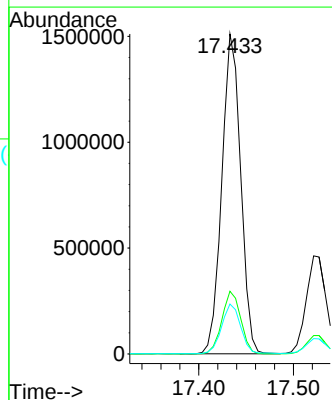
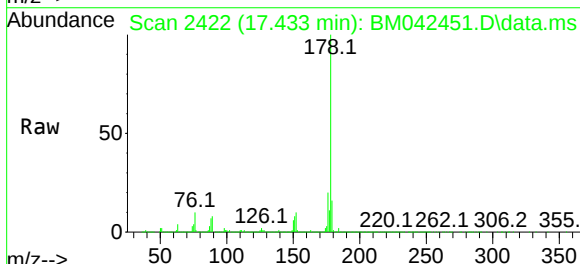
Manual Integrations
APPROVED

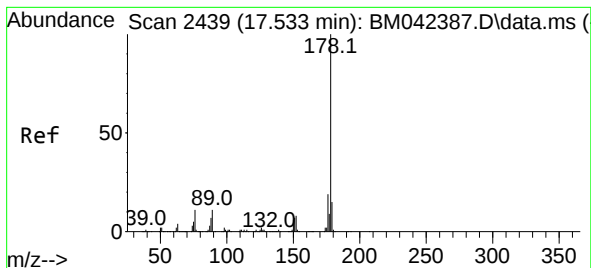
Reviewed By :Yogesh Patel 10/26/2023
Supervised By :mohammad ahmed 10/26/2023



#71
Phenanthrene
Concen: 62.121 ng
RT: 17.433 min Scan# 2422
Delta R.T. -0.006 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

Tgt Ion:178 Resp: 2091597
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 15.6 12.3 18.5





#72

Anthracene

Concen: 20.664 ng

RT: 17.521 min Scan# 2439

Delta R.T. -0.012 min

Lab File: BM042451.D

Acq: 25 Oct 2023 23:21

Instrument :

BNA_M

ClientSampleId :

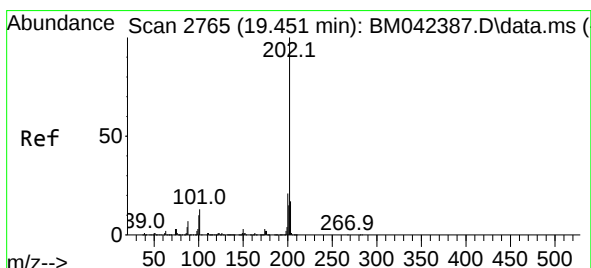
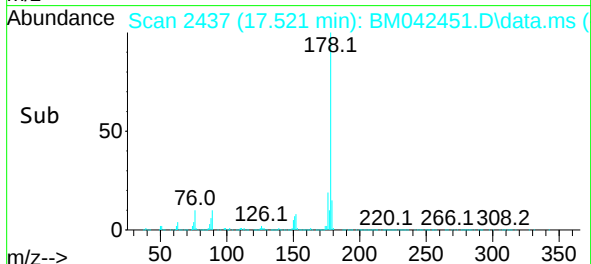
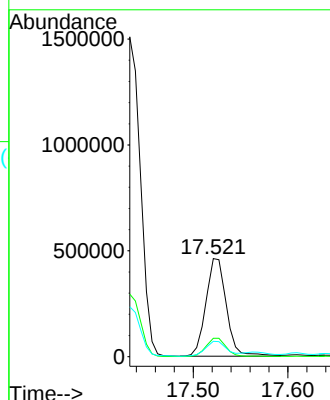
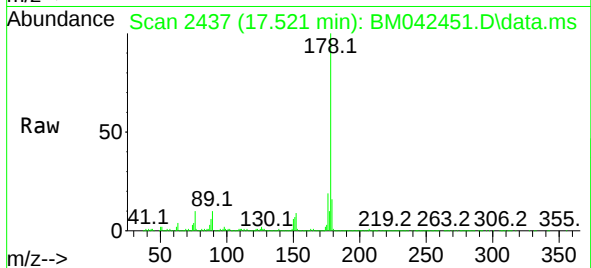
M-3(0-5)DL

Tgt Ion:178 Resp: 68904
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.4 23.0
 179 15.6 12.1 18.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/26/2023
 Supervised By :mohammad ahmed 10/26/2023



#75

Fluoranthene

Concen: 36.835 ng

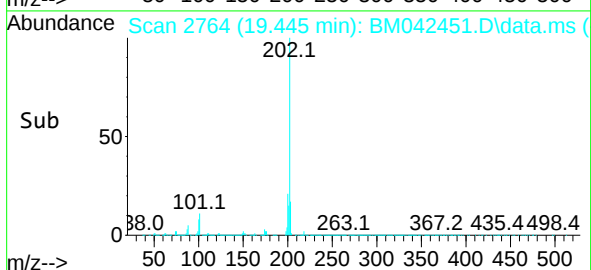
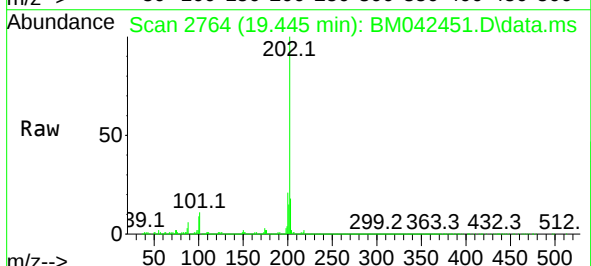
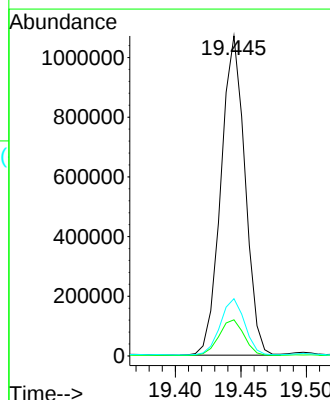
RT: 19.445 min Scan# 2764

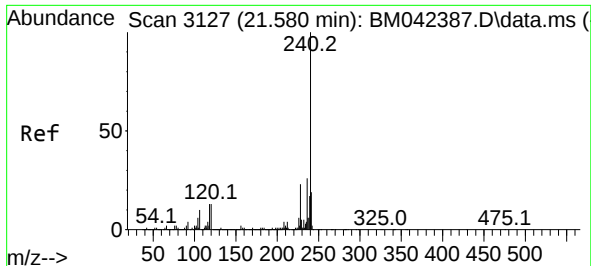
Delta R.T. -0.006 min

Lab File: BM042451.D

Acq: 25 Oct 2023 23:21

Tgt Ion:202 Resp: 1365923
 Ion Ratio Lower Upper
 202 100
 101 11.3 0.0 33.3
 203 17.9 0.0 37.5





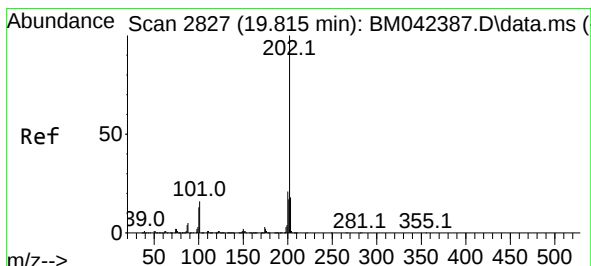
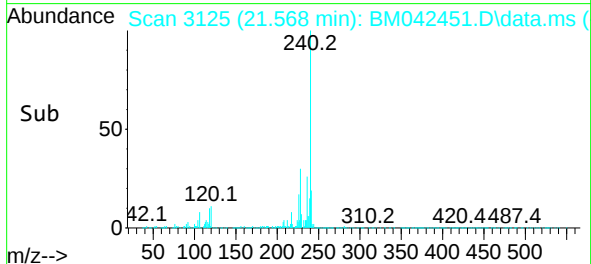
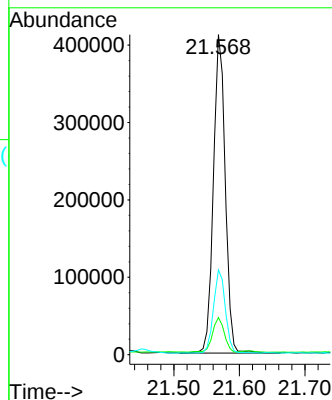
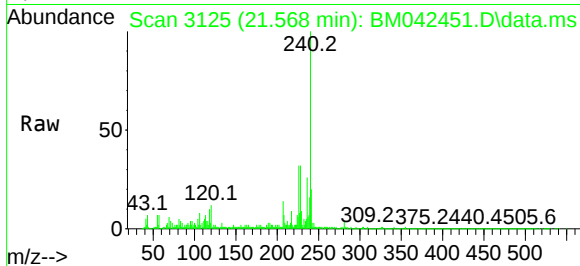
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.568 min Scan# 3125
Delta R.T. -0.012 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)DL

Tgt Ion:240 Resp: 51839
Ion Ratio Lower Upper
240 100
120 11.6 10.7 16.1
236 26.5 20.7 31.1

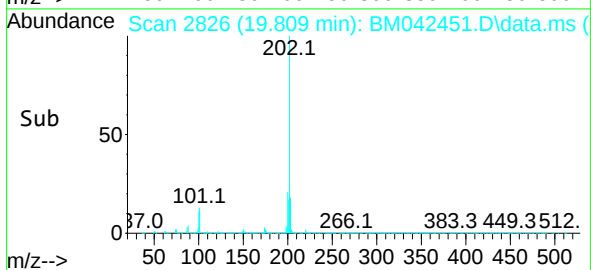
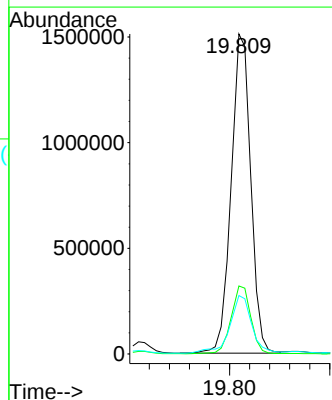
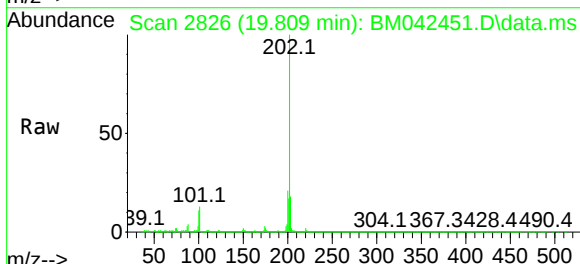
Manual Integrations
APPROVED

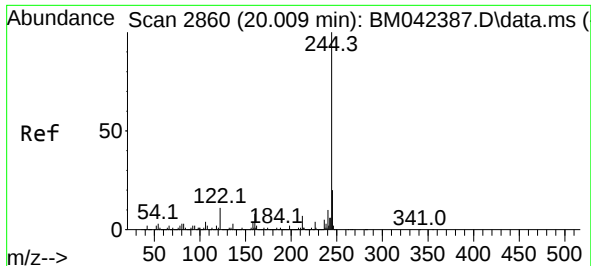
Reviewed By :Yogesh Patel 10/26/2023
Supervised By :mohammad ahmed 10/26/2023



#78
Pyrene
Concen: 56.568 ng
RT: 19.809 min Scan# 2826
Delta R.T. -0.006 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

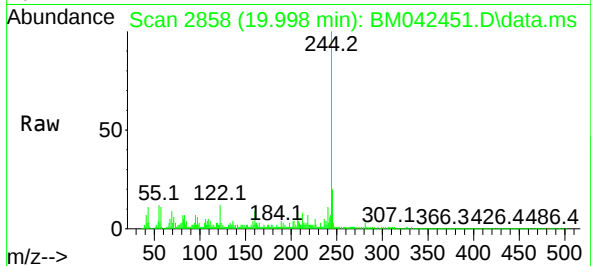
Tgt Ion:202 Resp: 2049182
Ion Ratio Lower Upper
202 100
200 21.3 17.1 25.7
203 18.2 14.1 21.1





#79
Terphenyl-d14
Concen: 7.446 ng
RT: 19.998 min Scan# 217639
Delta R.T. -0.011 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

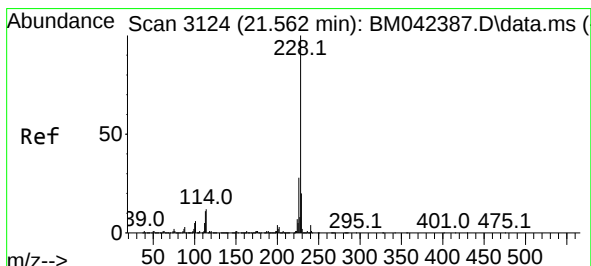
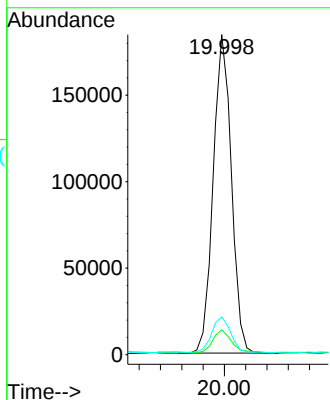
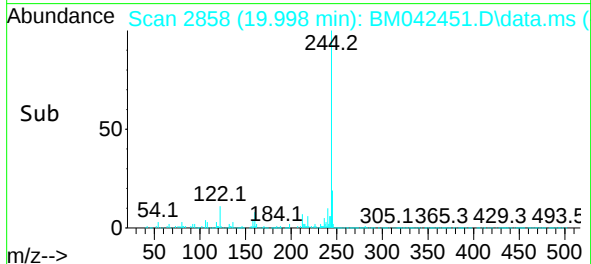
Instrument :
BNA_M
ClientSampleId :
M-3(0-5)DL



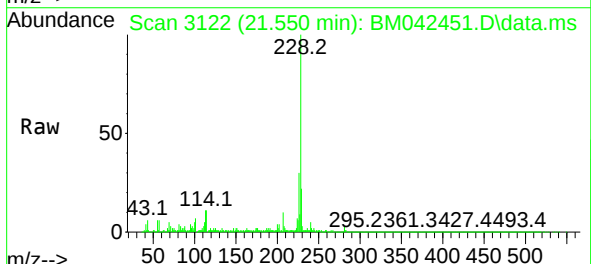
Tgt Ion:244 Resp: 217639
Ion Ratio Lower Upper
244 100
212 7.8 5.6 8.4
122 11.8 8.8 13.2

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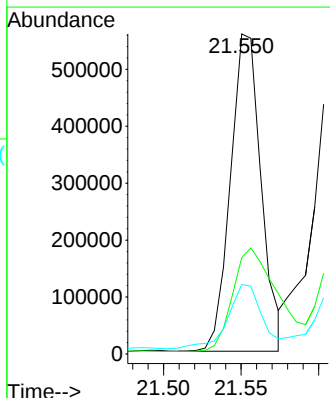
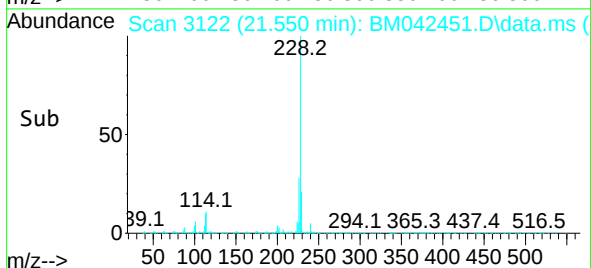
Reviewed By :Yogesh Patel 10/26/2023
Supervised By :mohammad ahmed 10/26/2023

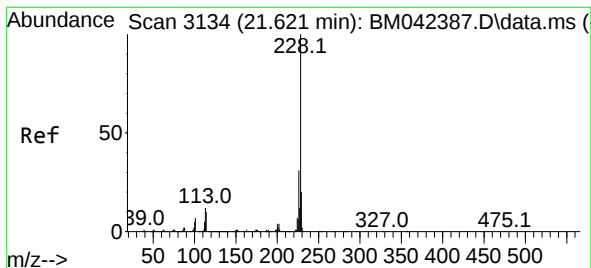


#81
Benzo(a)anthracene
Concen: 22.086 ng
RT: 21.550 min Scan# 3122
Delta R.T. -0.012 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21



Tgt Ion:228 Resp: 767541
Ion Ratio Lower Upper
228 100
226 30.1 22.2 33.4
229 21.7 15.7 23.5





#83

Chrysene

Concen: 21.173 ng

RT: 21.609 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM042451.D

Acq: 25 Oct 2023 23:21

Instrument :

BNA_M

ClientSampleId :

M-3(0-5)DL

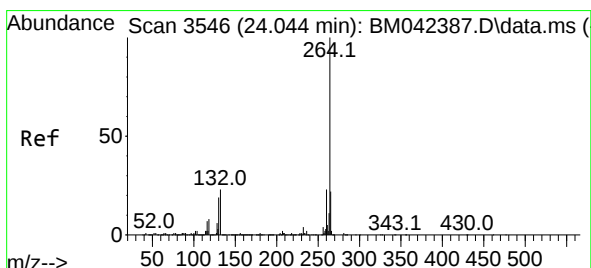
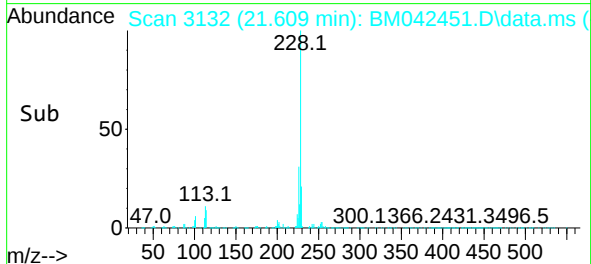
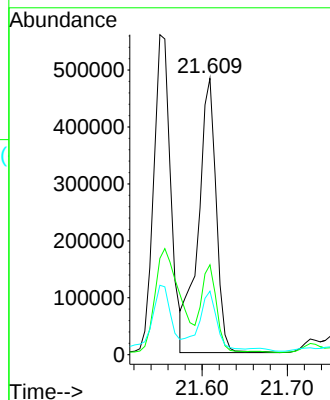
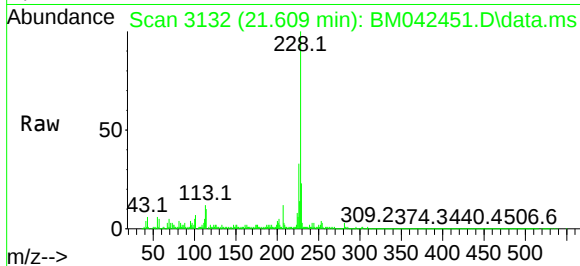
Tgt Ion:	228	Resp:	70671
Ion Ratio	Lower	Upper	
228	100		
226	32.5	24.6	36.8
229	23.0	15.7	23.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/26/2023

Supervised By :mohammad ahmed 10/26/2023



#86

Perylene-d12

Concen: 20.000 ng

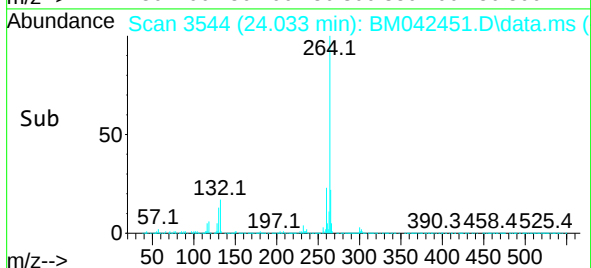
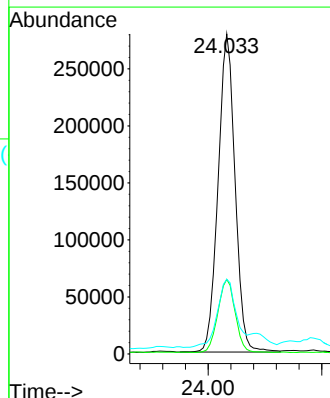
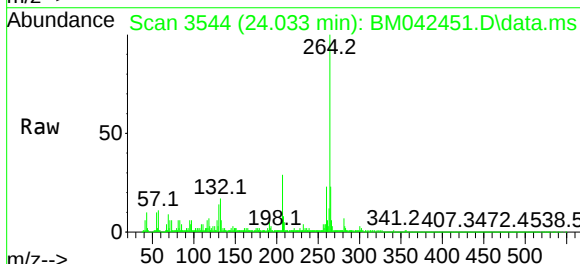
RT: 24.033 min Scan# 3544

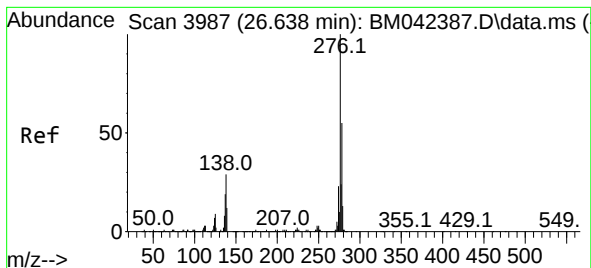
Delta R.T. -0.012 min

Lab File: BM042451.D

Acq: 25 Oct 2023 23:21

Tgt Ion:	264	Resp:	578183
Ion Ratio	Lower	Upper	
264	100		
260	23.3	18.6	27.8
265	23.3	17.8	26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.245 ng

RT: 26.609 min Scan# 3987

Delta R.T. -0.029 min

Lab File: BM042451.D

Acq: 25 Oct 2023 23:21

Instrument :

BNA_M

ClientSampleId :

M-3(0-5)DL

Tgt Ion: 276 Resp: 306140

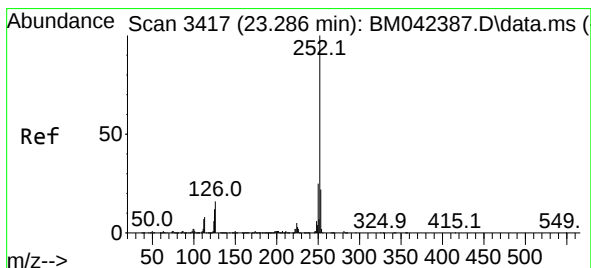
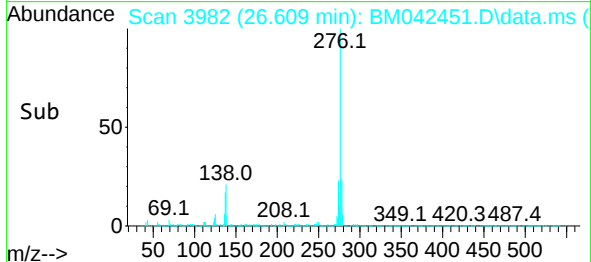
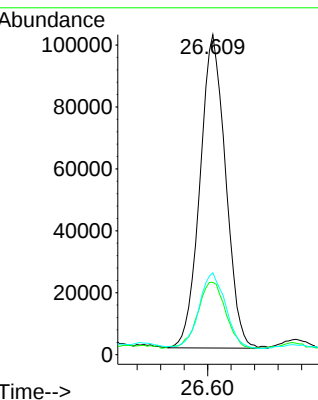
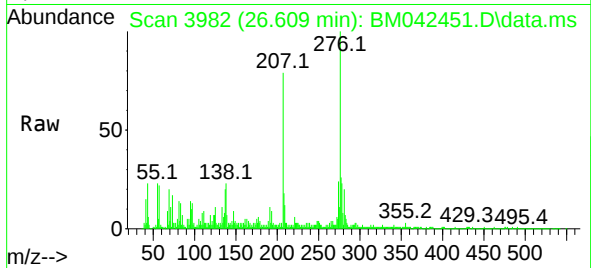
Ion	Ratio	Lower	Upper
276	100		
138	23.1	25.6	38.4
277	25.2	20.0	30.0

Manual Integrations

APPROVED

Reviewed By : Yogesh Patel 10/26/2023

Supervised By : mohammad ahmed 10/26/2023



#88

Benzo(b)fluoranthene

Concen: 18.407 ng m

RT: 23.274 min Scan# 3415

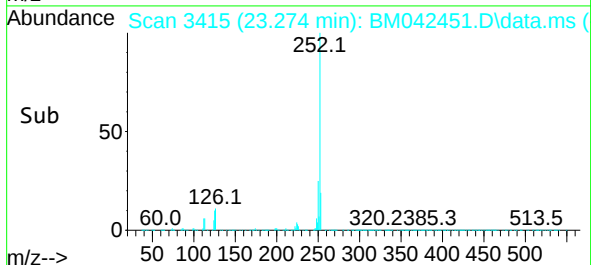
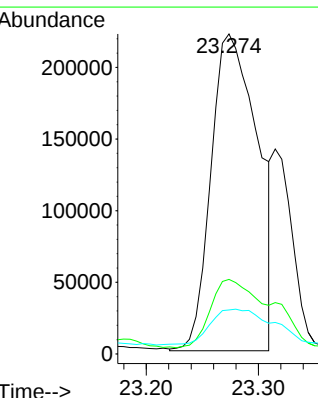
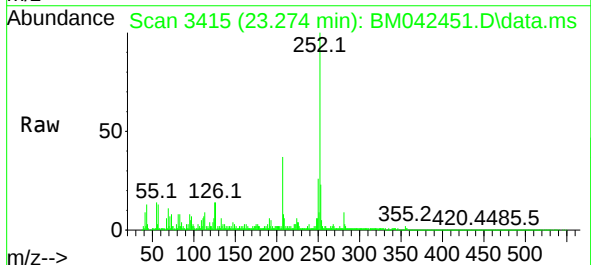
Delta R.T. -0.012 min

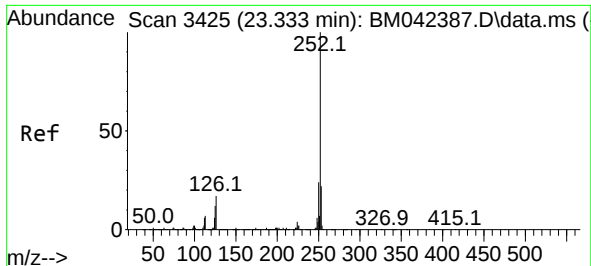
Lab File: BM042451.D

Acq: 25 Oct 2023 23:21

Tgt Ion: 252 Resp: 640610

Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.0	27.0
125	13.7	9.8	14.8





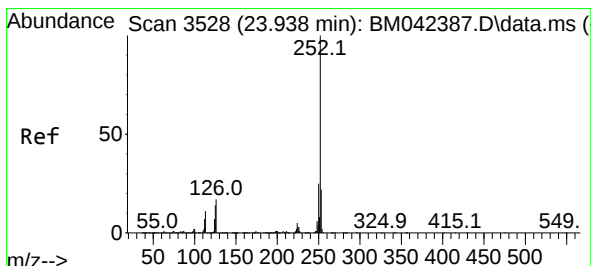
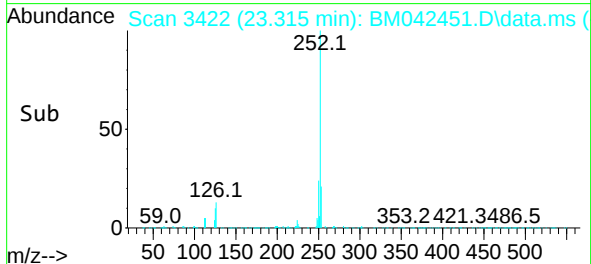
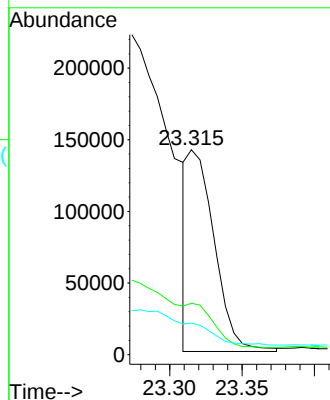
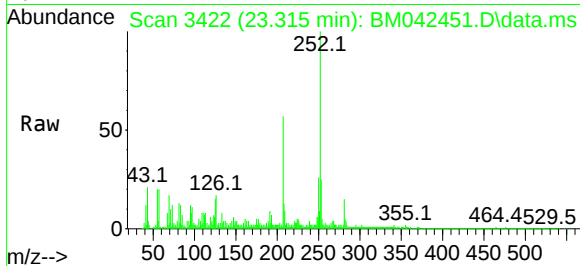
#89
Benzo(k)fluoranthene
Concen: 4.932 ng m
RT: 23.315 min Scan# 3425
Delta R.T. -0.018 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

Instrument :
BNA_M
ClientSampleId :
M-3(0-5)DL

Tgt Ion:252 Resp: 17822
Ion Ratio Lower Upper
252 100
253 25.1 17.9 26.9
125 15.4 10.2 15.2

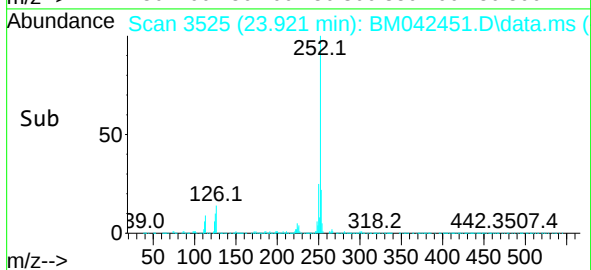
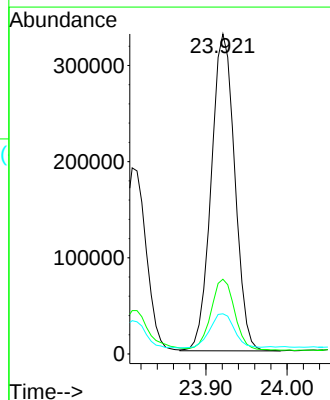
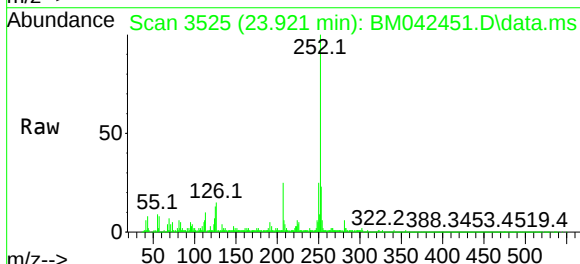
Manual Integrations
APPROVED

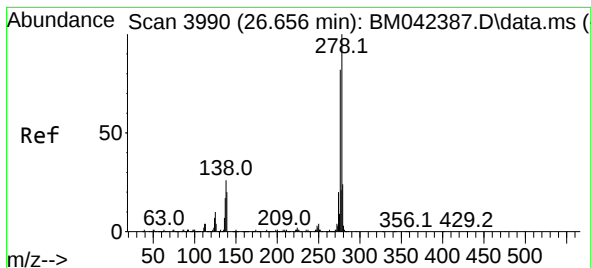
Reviewed By :Yogesh Patel 10/26/2023
Supervised By :mohammad ahmed 10/26/2023



#90
Benzo(a)pyrene
Concen: 19.826 ng
RT: 23.921 min Scan# 3525
Delta R.T. -0.018 min
Lab File: BM042451.D
Acq: 25 Oct 2023 23:21

Tgt Ion:252 Resp: 664115
Ion Ratio Lower Upper
252 100
253 23.4 17.9 26.9
125 12.5 10.9 16.3





#91

Dibenzo(a,h)anthracene

Concen: 2.838 ng

RT: 26.621 min Scan# 3990

Delta R.T. -0.035 min

Lab File: BM042451.D

Acq: 25 Oct 2023 23:21

Instrument :

BNA_M

ClientSampleId :

M-3(0-5)DL

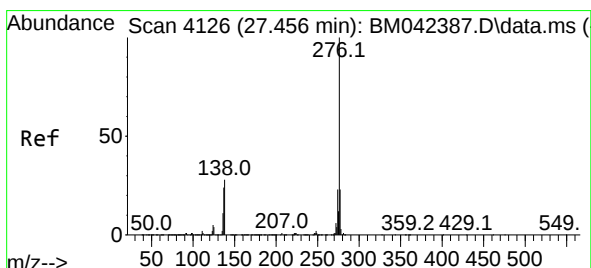
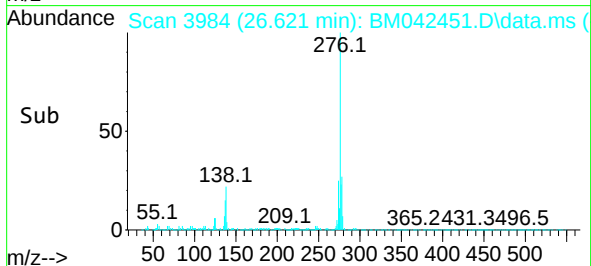
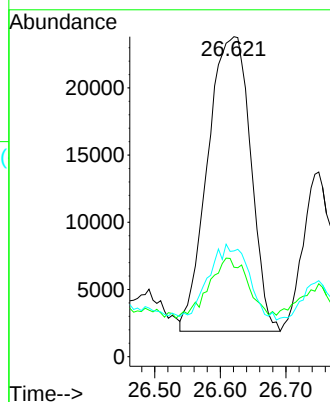
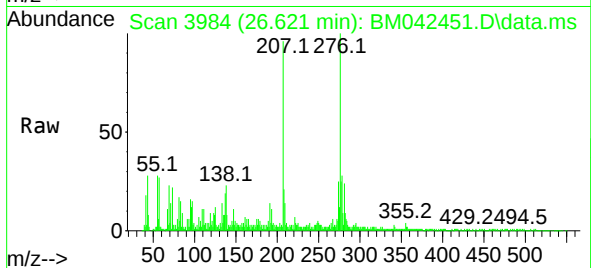
Tgt Ion:	278	Resp:	99710
Ion Ratio	Lower	Upper	
278	100		
139	27.9	15.6	23.4
279	33.0	19.0	28.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/26/2023

Supervised By :mohammad ahmed 10/26/2023



#92

Benzo(g,h,i)perylene

Concen: 9.727 ng

RT: 27.421 min Scan# 4120

Delta R.T. -0.035 min

Lab File: BM042451.D

Acq: 25 Oct 2023 23:21

Tgt Ion:	276	Resp:	331857
Ion Ratio	Lower	Upper	
276	100		
277	25.2	18.3	27.5
138	23.6	22.6	34.0

