

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080123\
 Data File : BM041227.D
 Acq On : 01 Aug 2023 16:32
 Operator : MA/JU
 Sample : 03768-01DL 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 FL-1DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/02/2023
 Supervised By :mohammad ahmed 08/02/2023

Quant Time: Aug 02 01:55:05 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	128079	20.000	ng	0.00
21) Naphthalene-d8	10.610	136	493881	20.000	ng	0.00
39) Acenaphthene-d10	14.468	164	302360	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	675379	20.000	ng	0.00
76) Chrysene-d12	21.427	240	626985	20.000	ng	0.00
86) Perylene-d12	23.803	264	704399	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	68910	8.041	ng	0.01
7) Phenol-d6	6.987	99	86550	7.792	ng	0.01
23) Nitrobenzene-d5	8.980	82	51005	4.803	ng	0.00
42) 2,4,6-Tribromophenol	15.968	330	36687	8.578	ng	0.00
45) 2-Fluorobiphenyl	13.080	172	124912	5.219	ng	0.00
79) Terphenyl-d14	19.862	244	202472	5.839	ng	0.00
Target Compounds					Qvalue	
31) Naphthalene	10.657	128	261265	9.748	ng	99
37) 2-Methylnaphthalene	12.280	142	75700	4.190	ng	97
38) 1-Methylnaphthalene	12.498	142	49643	2.936	ng	99
52) Acenaphthene	14.533	154	349636	19.646	ng	99
55) Dibenzofuran	14.868	168	227870	7.848	ng	99
58) Fluorene	15.521	166	318250	13.894	ng	99
71) Phenanthrene	17.274	178	2883694	76.848	ng	100
72) Anthracene	17.362	178	916317	24.690	ng	100
73) Carbazole	17.639	167	380673	11.333	ng	99
75) Fluoranthene	19.297	202	3367206	79.871	ng	99
78) Pyrene	19.662	202	2822644	64.376	ng	99
81) Benzo(a)anthracene	21.415	228	1429655	33.635	ng	98
83) Chrysene	21.468	228	1170383	28.468	ng	97
87) Indeno(1,2,3-cd)pyrene	26.256	276	630548	12.175	ng	# 93
88) Benzo(b)fluoranthene	23.085	252	1450130	34.654	ng	97
89) Benzo(k)fluoranthene	23.127	252	473100m	11.053	ng	
90) Benzo(a)pyrene	23.697	252	1092608	27.174	ng	96
91) Dibenzo(a,h)anthracene	26.256	278	171595	3.972	ng	# 78
92) Benzo(g,h,i)perylene	27.009	276	572051	13.534	ng	94

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

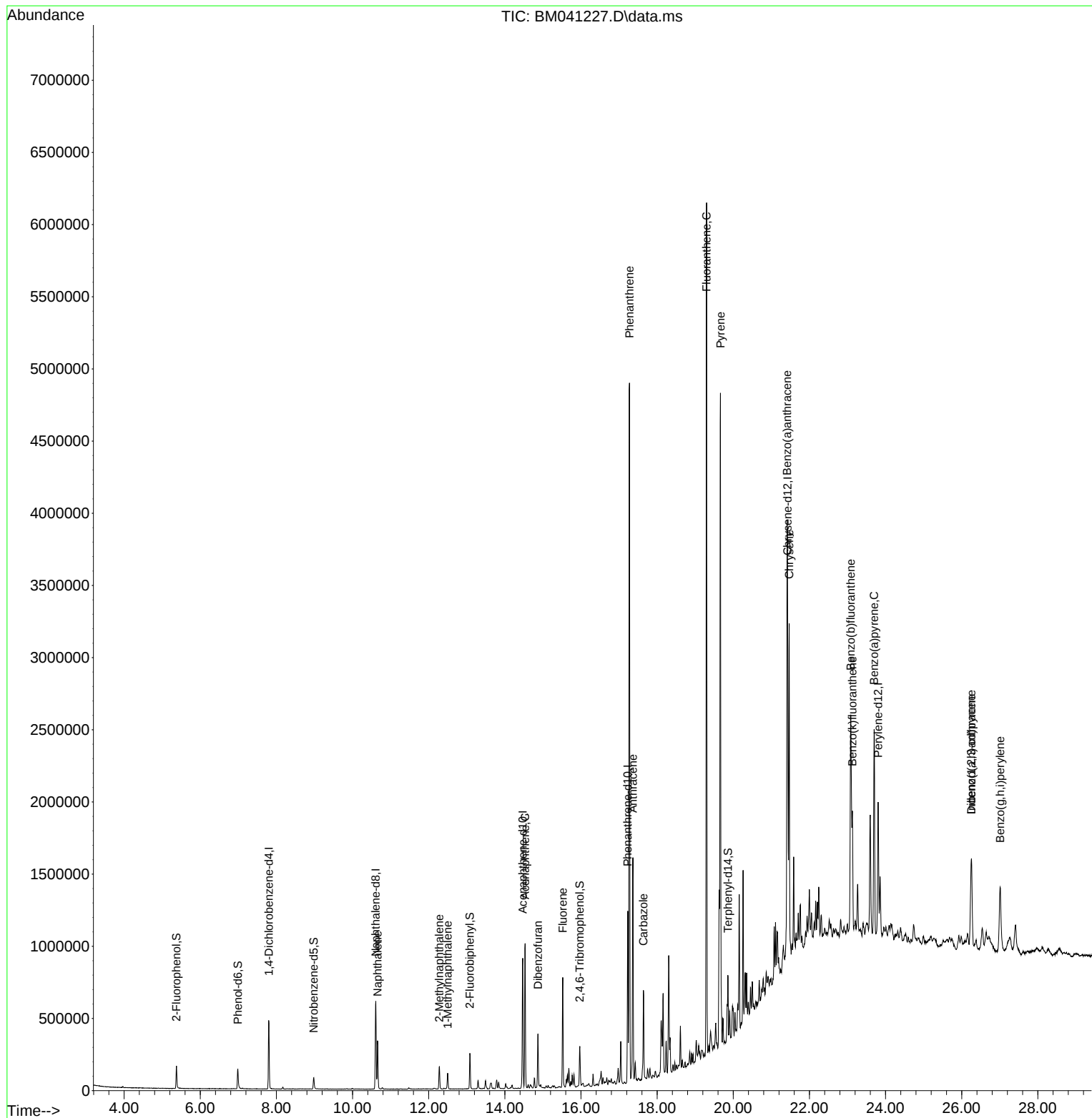
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM080123\
Data File : BM041227.D
Acq On : 01 Aug 2023 16:32
Operator : MA/JU
Sample : 03768-01DL 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

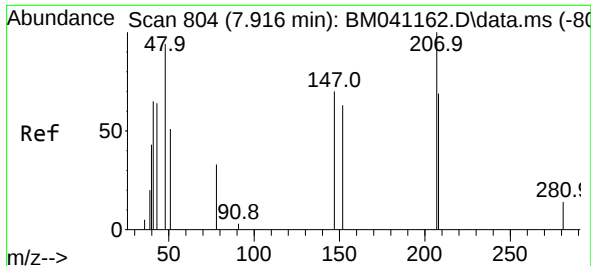
Instrument :
BNA_M
ClientSampleId :
FL-1DL

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Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

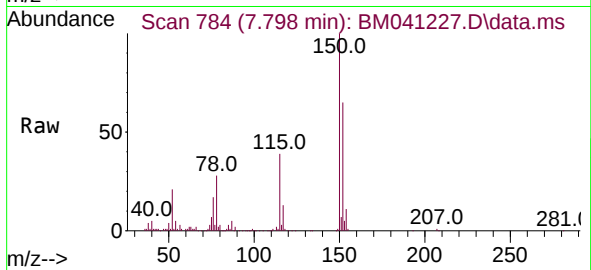
Quant Time: Aug 02 01:55:05 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jul 31 16:29:28 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.798 min Scan# 71
Delta R.T. 0.000 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32

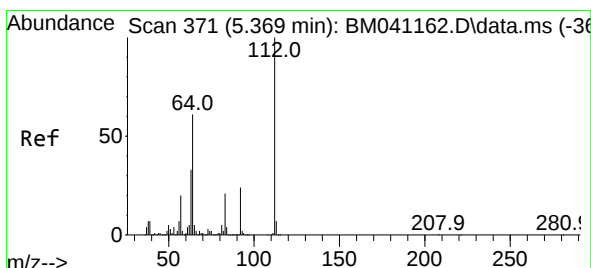
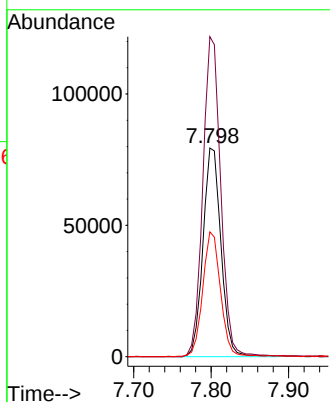
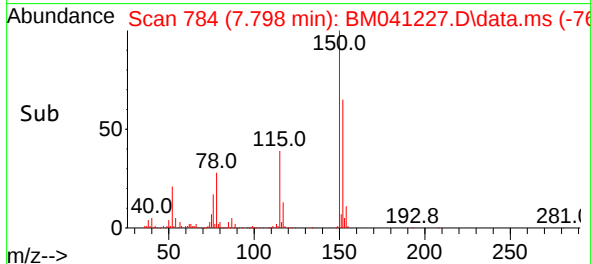
Instrument :
BNA_M
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FL-1DL



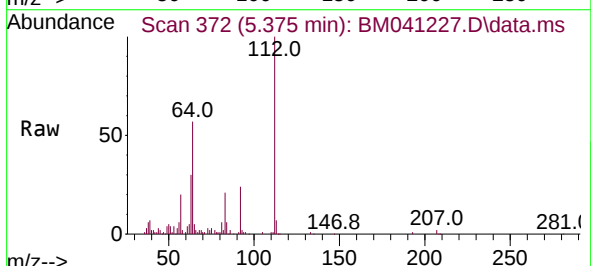
Tgt Ion:152 Resp: 128079
Ion Ratio Lower Upper
152 100
150 153.3 125.5 188.3
115 59.8 48.0 72.0

Manual Integrations
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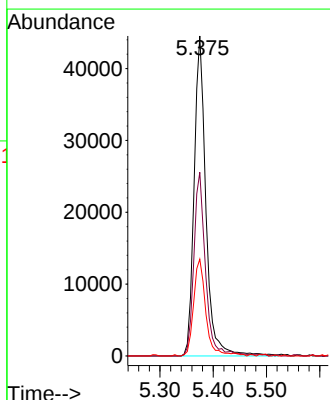
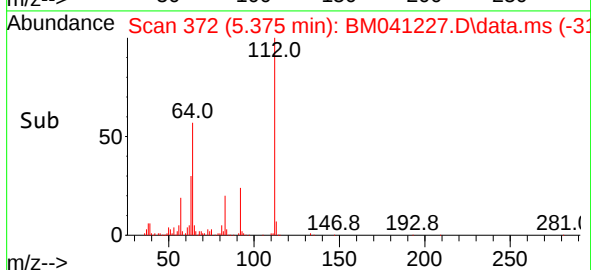
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

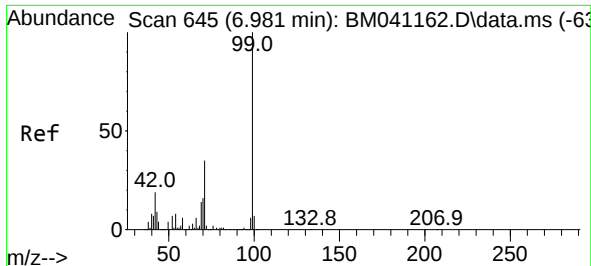


#5
2-Fluorophenol
Concen: 8.041 ng
RT: 5.375 min Scan# 372
Delta R.T. 0.012 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32



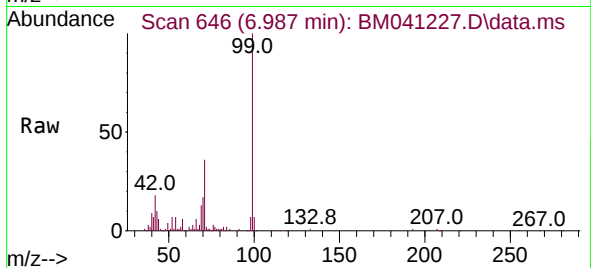
Tgt Ion:112 Resp: 68910
Ion Ratio Lower Upper
112 100
64 57.4 48.5 72.7
63 30.3 26.5 39.7





#7
Phenol-d6
Concen: 7.792 ng
RT: 6.987 min Scan# 646
Delta R.T. 0.012 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32

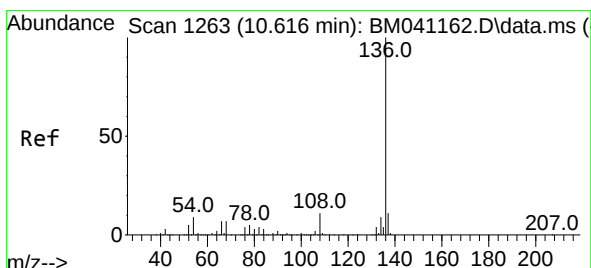
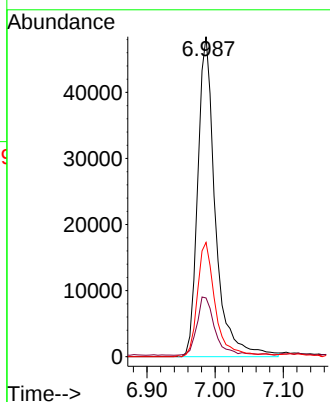
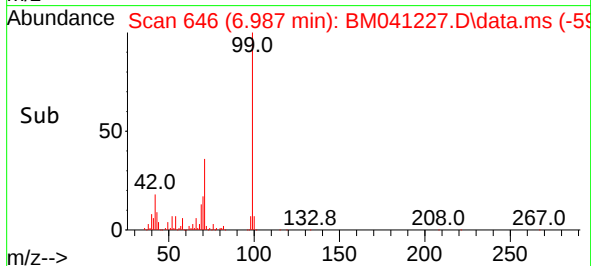
Instrument :
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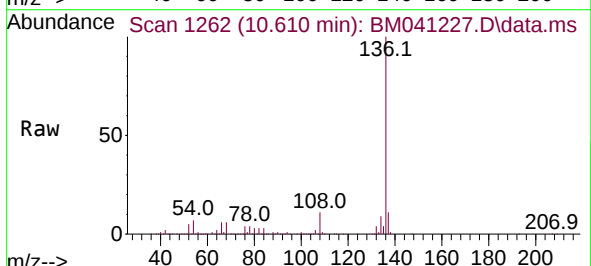
Tgt Ion: 99 Resp: 86550
Ion Ratio Lower Upper
99 100
42 18.4 15.4 23.0
71 35.7 28.2 42.4

Manual Integrations
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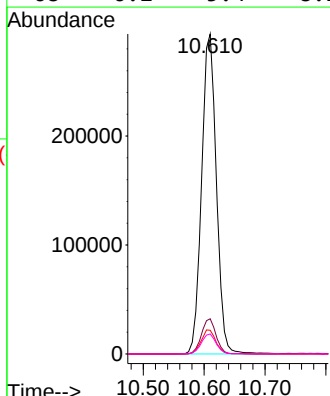
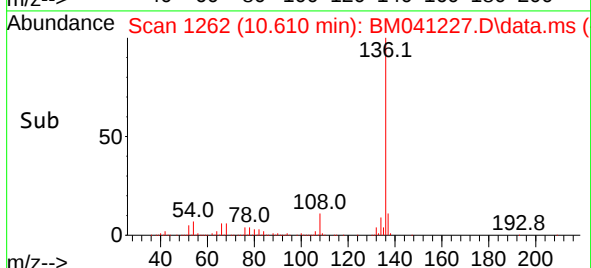
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

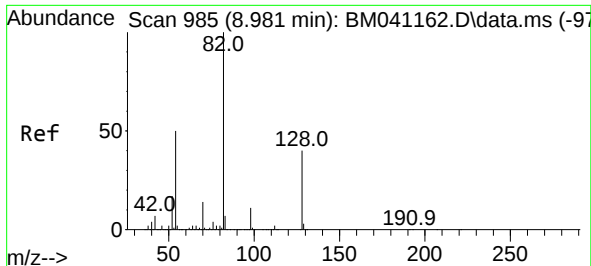


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.610 min Scan# 1262
Delta R.T. 0.006 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32



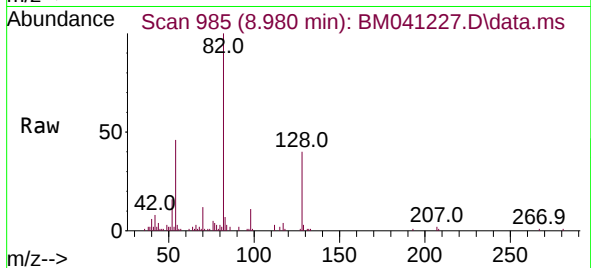
Tgt Ion:136 Resp: 493881
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 7.4 6.9 10.3
68 6.2 5.4 8.2





#23
Nitrobenzene-d5
Concen: 4.803 ng
RT: 8.980 min Scan# 985
Delta R.T. 0.006 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32

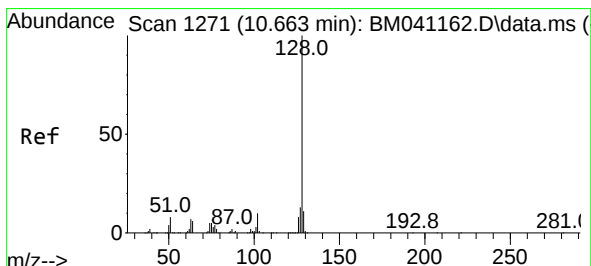
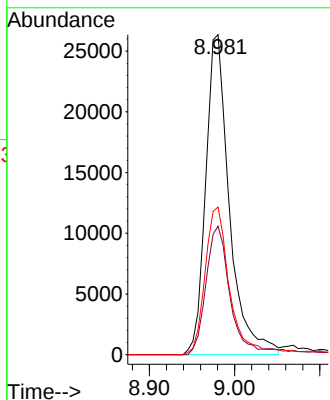
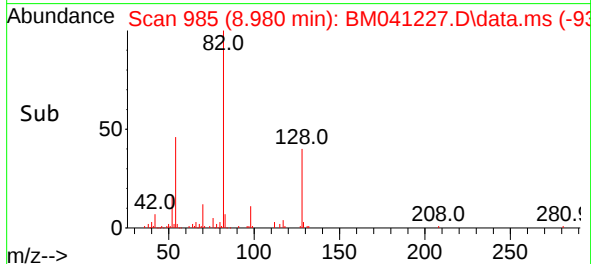
Instrument :
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ClientSampleId :
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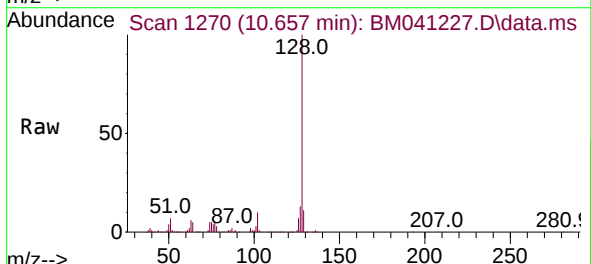
Tgt Ion: 82 Resp: 5100
Ion Ratio Lower Upper
82 100
128 40.1 31.8 47.6
54 46.2 40.1 60.1

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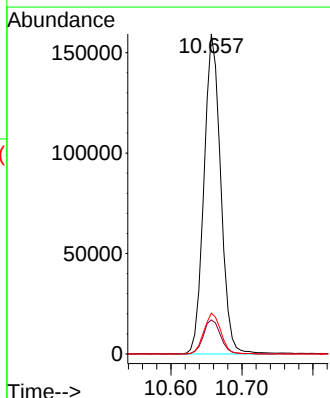
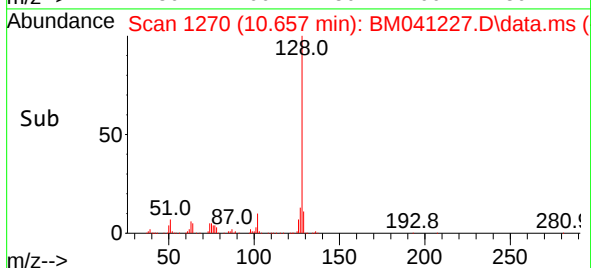
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

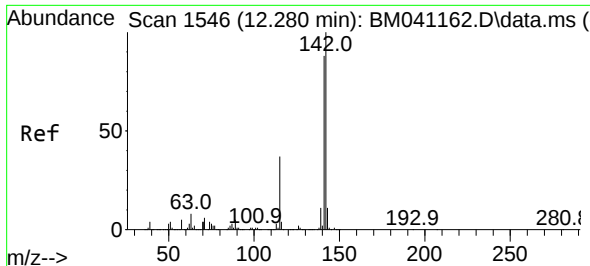


#31
Naphthalene
Concen: 9.748 ng
RT: 10.657 min Scan# 1270
Delta R.T. -0.000 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32



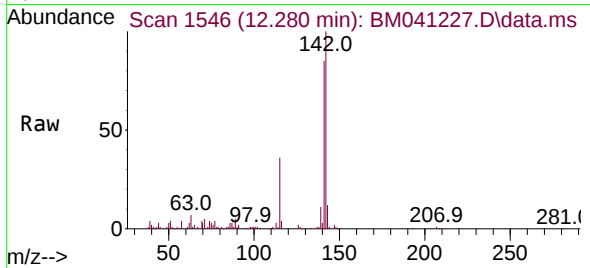
Tgt Ion:128 Resp: 261265
Ion Ratio Lower Upper
128 100
129 10.7 9.0 13.4
127 12.8 10.5 15.7





#37
2-Methylnaphthalene
Concen: 4.190 ng
RT: 12.280 min Scan# 1546
Delta R.T. 0.006 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32

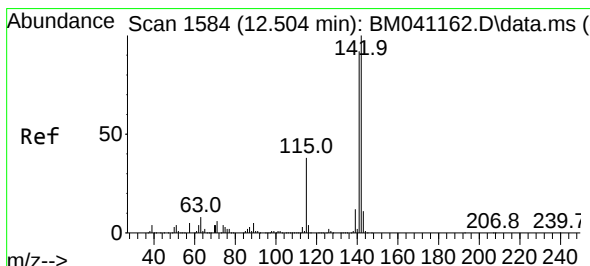
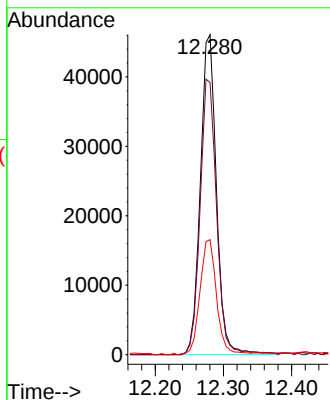
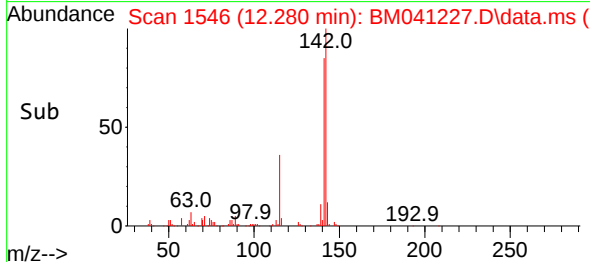
Instrument :
BNA_M
ClientSampleId :
FL-1DL



Tgt Ion:142 Resp: 75700
Ion Ratio Lower Upper
142 100
141 85.1 70.7 106.1
115 35.9 29.3 43.9

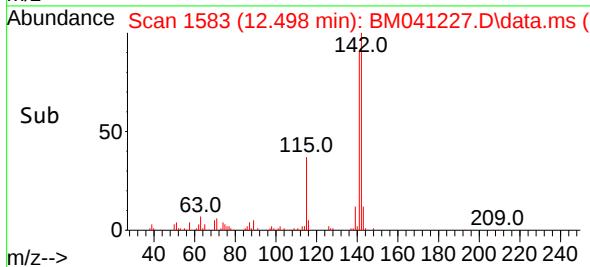
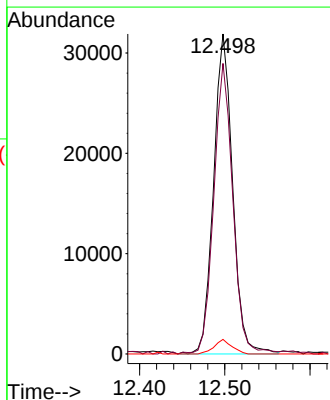
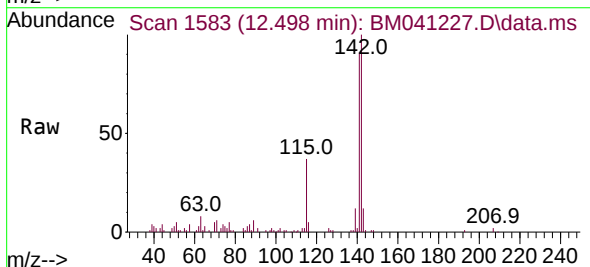
Manual Integrations
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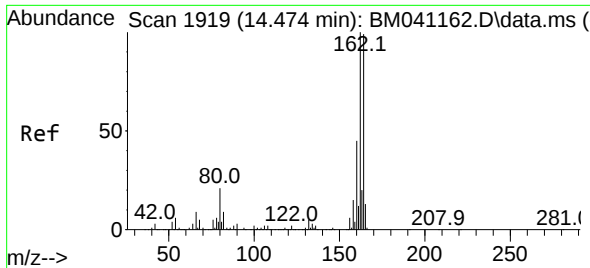
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#38
1-Methylnaphthalene
Concen: 2.936 ng
RT: 12.498 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32

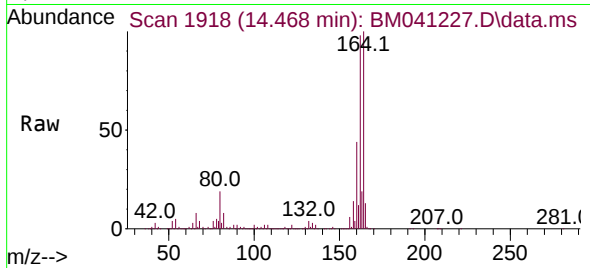
Tgt Ion:142 Resp: 49643
Ion Ratio Lower Upper
142 100
141 90.8 73.4 110.2
116 4.6 3.2 4.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.468 min Scan# 1918
Delta R.T. 0.006 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32

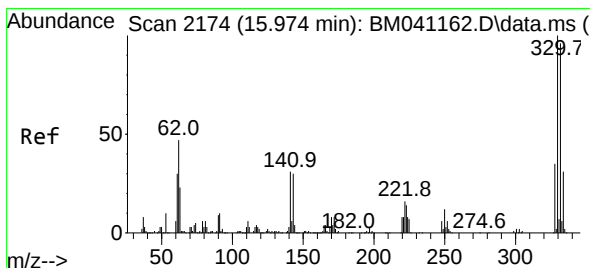
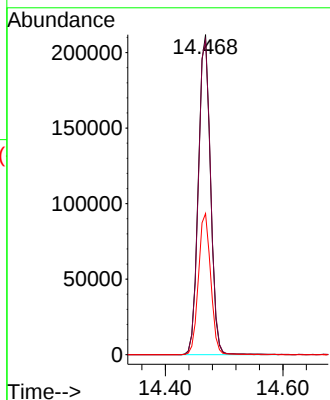
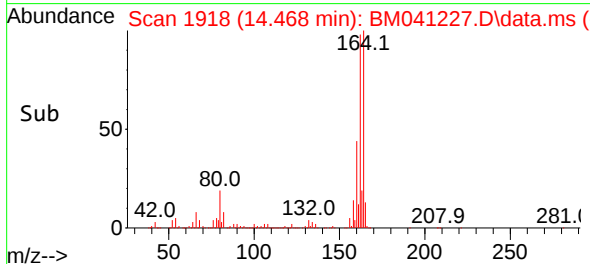
Instrument :
BNA_M
ClientSampleId :
FL-1DL



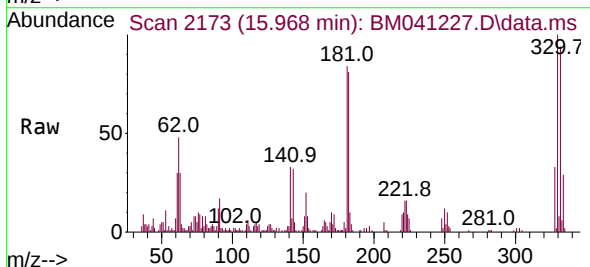
Tgt Ion:164 Resp: 302360
Ion Ratio Lower Upper
164 100
162 98.3 80.4 120.6
160 44.1 36.2 54.2

Manual Integrations
APPROVED

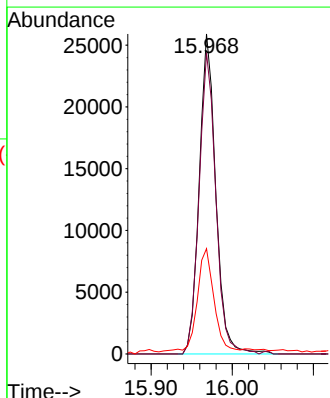
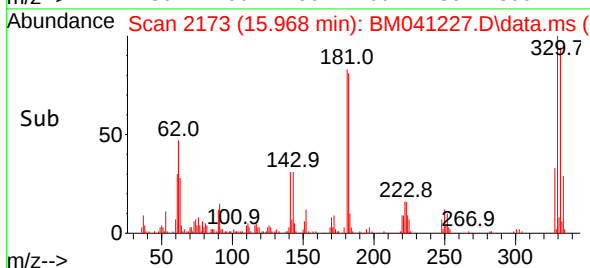
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Supervised By :mohammad ahmed 08/02/2023

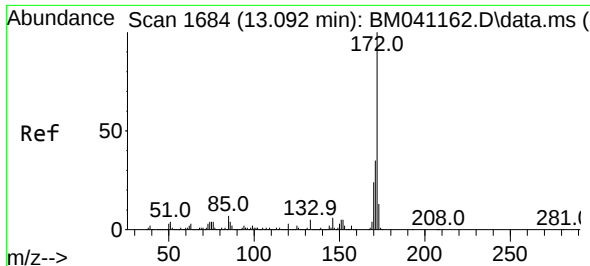


#42
2,4,6-Tribromophenol
Concen: 8.578 ng
RT: 15.968 min Scan# 2173
Delta R.T. 0.006 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32



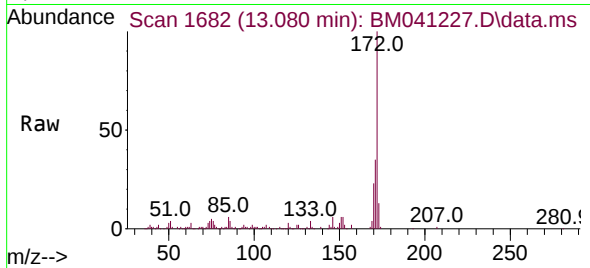
Tgt Ion:330 Resp: 36687
Ion Ratio Lower Upper
330 100
332 95.1 77.7 116.5
141 33.3 28.3 42.5





#45
2-Fluorobiphenyl
Concen: 5.219 ng
RT: 13.080 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32

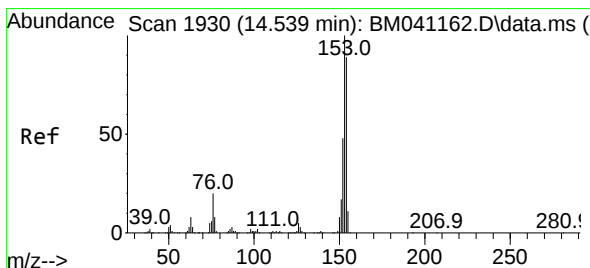
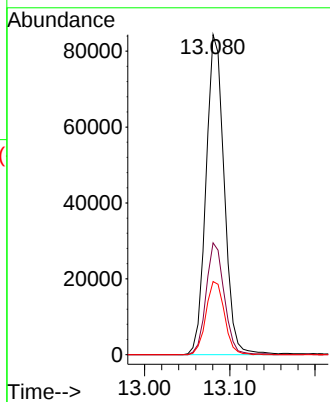
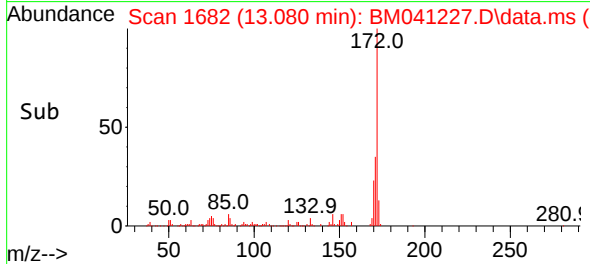
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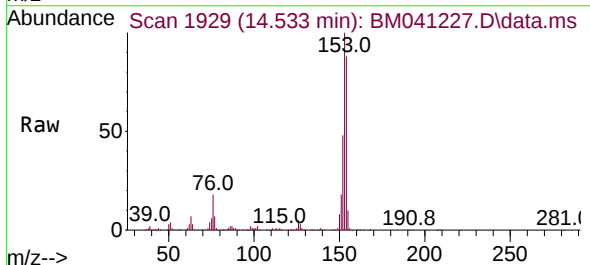
Tgt Ion:172 Resp: 124912
Ion Ratio Lower Upper
172 100
171 34.9 28.1 42.1
170 22.9 18.9 28.3

Manual Integrations
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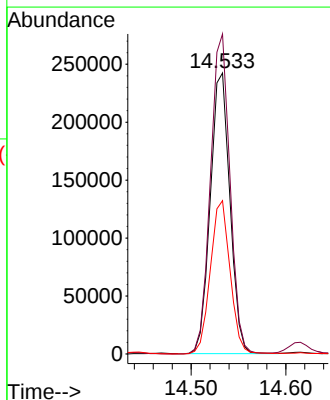
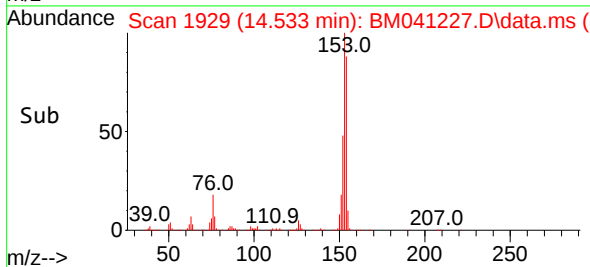
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

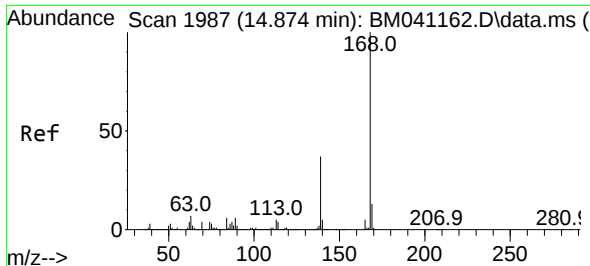


#52
Acenaphthene
Concen: 19.646 ng
RT: 14.533 min Scan# 1929
Delta R.T. -0.000 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32



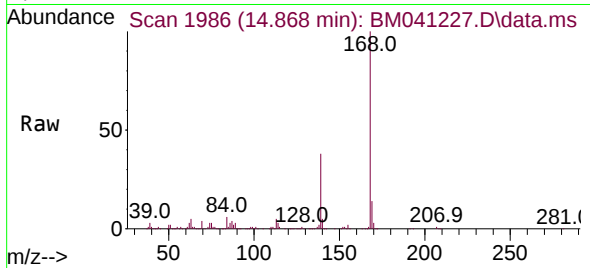
Tgt Ion:154 Resp: 349636
Ion Ratio Lower Upper
154 100
153 113.9 90.2 135.4
152 54.6 43.4 65.0





#55
Dibenzenofuran
Concen: 7.848 ng
RT: 14.868 min Scan# 1986
Delta R.T. -0.000 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32

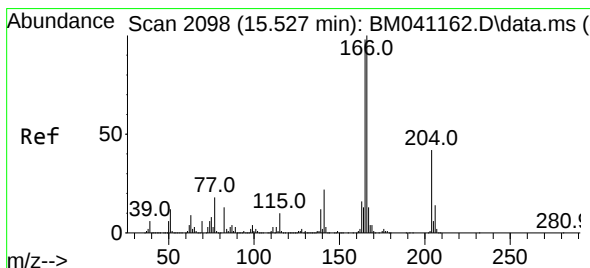
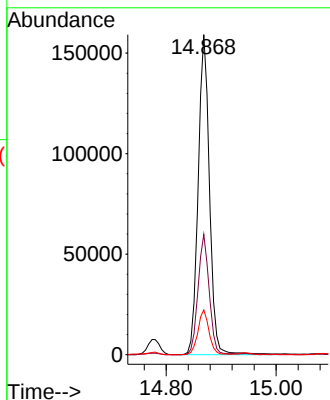
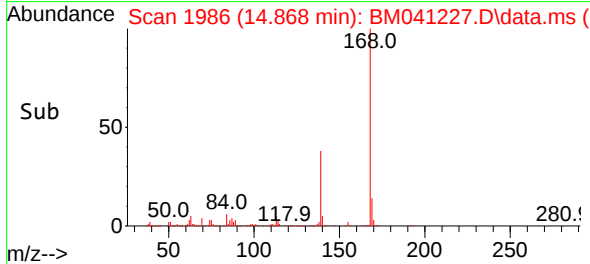
Instrument :
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Tgt Ion:168 Resp: 227870
Ion Ratio Lower Upper
168 100
139 37.6 29.8 44.6
169 14.0 10.5 15.7

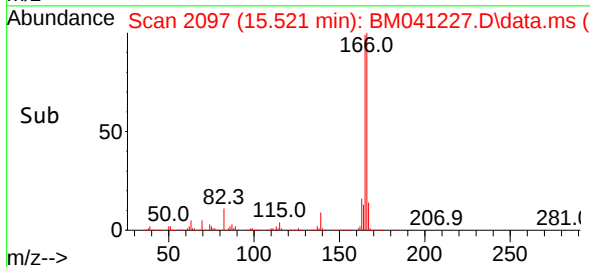
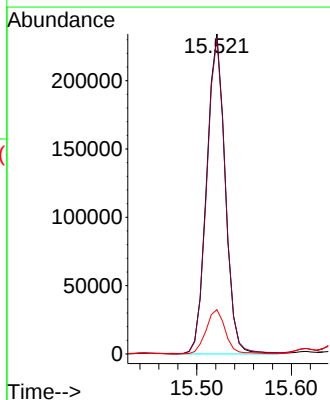
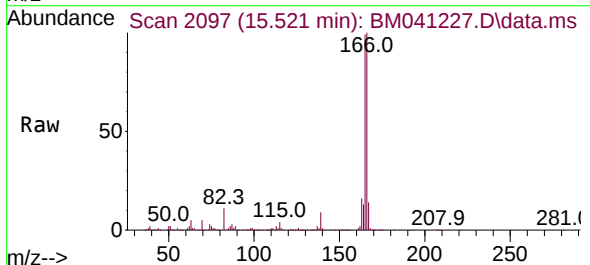
Manual Integrations
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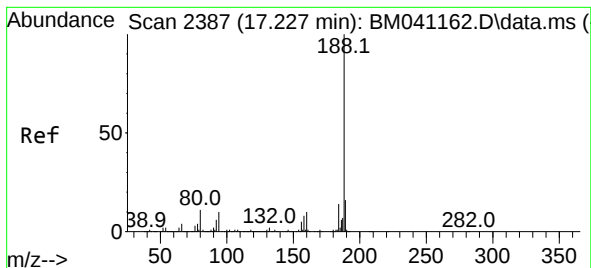
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#58
Fluorene
Concen: 13.894 ng
RT: 15.521 min Scan# 2097
Delta R.T. 0.006 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32

Tgt Ion:166 Resp: 318250
Ion Ratio Lower Upper
166 100
165 98.8 78.2 117.4
167 13.9 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: BM041227.D

Acq: 01 Aug 2023 16:32

Instrument :

BNA_M

ClientSampleId :

FL-1DL

Tgt Ion:188 Resp: 675379

Ion Ratio Lower Upper

188 100

94 8.6 8.2 12.2

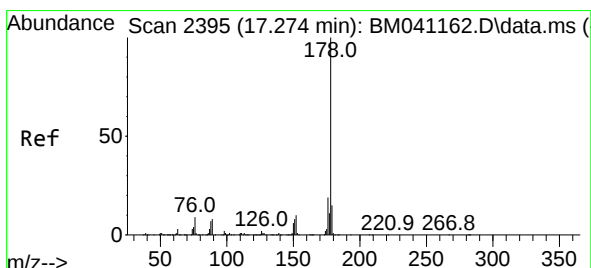
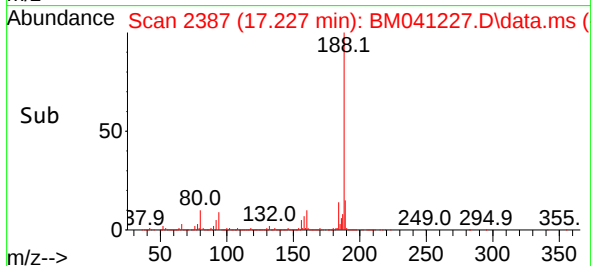
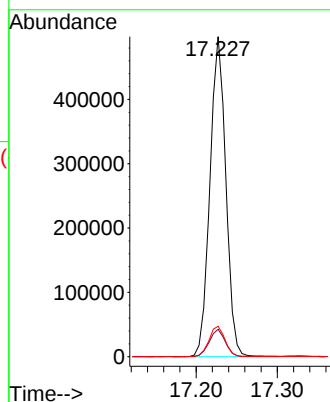
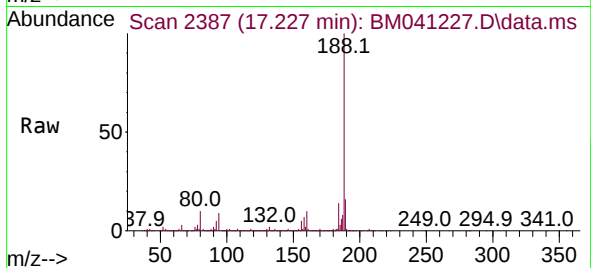
80 9.5 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/02/2023

Supervised By :mohammad ahmed 08/02/2023



#71

Phenanthrene

Concen: 76.848 ng

RT: 17.274 min Scan# 2395

Delta R.T. 0.006 min

Lab File: BM041227.D

Acq: 01 Aug 2023 16:32

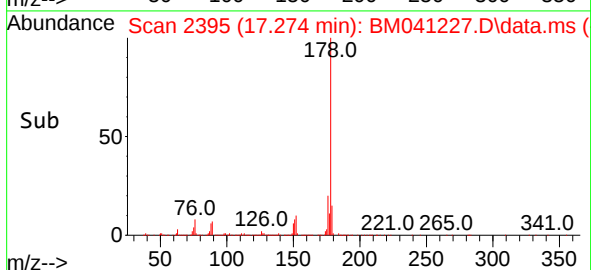
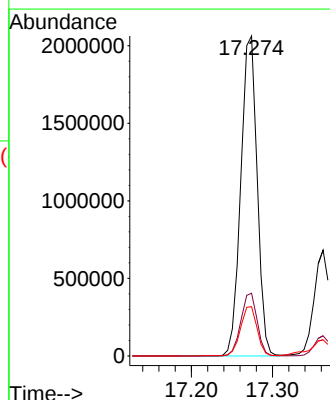
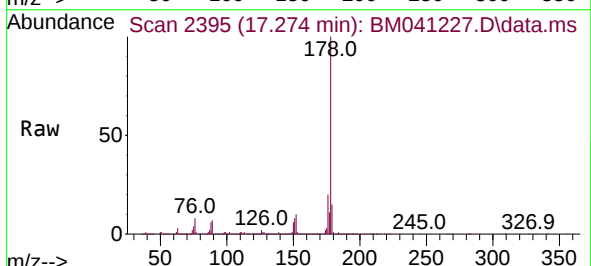
Tgt Ion:178 Resp: 2883694

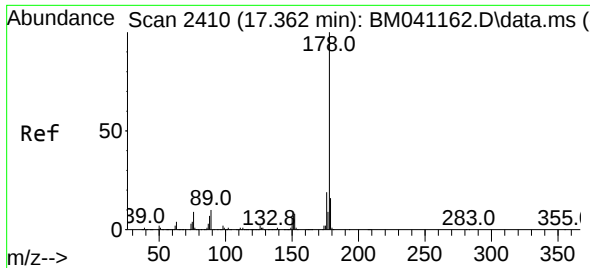
Ion Ratio Lower Upper

178 100

176 19.6 15.6 23.4

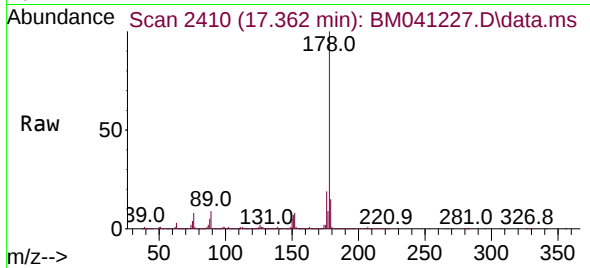
179 15.4 12.1 18.1





#72
 Anthracene
 Concen: 24.690 ng
 RT: 17.362 min Scan# 2410
 Delta R.T. 0.006 min
 Lab File: BM041227.D
 Acq: 01 Aug 2023 16:32

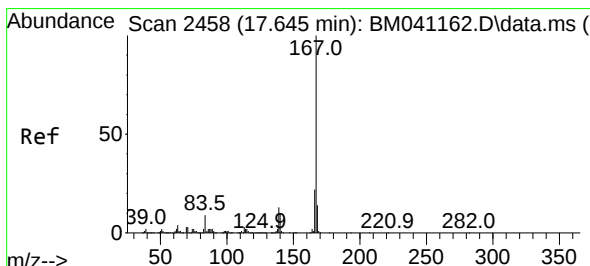
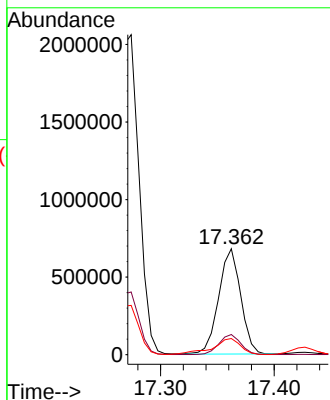
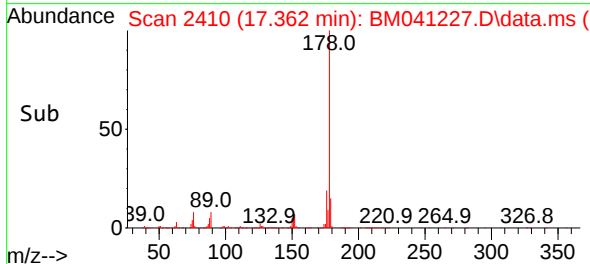
Instrument :
 BNA_M
 ClientSampleId :
 FL-1DL



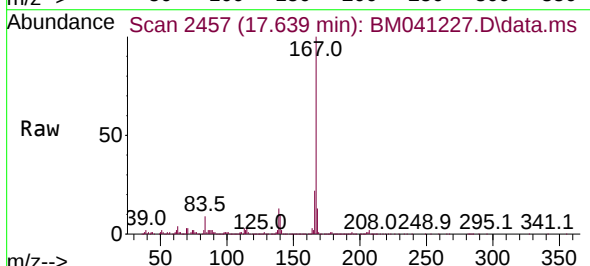
Tgt Ion:178 Resp: 91631
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.2 22.8
 179 15.2 12.4 18.6

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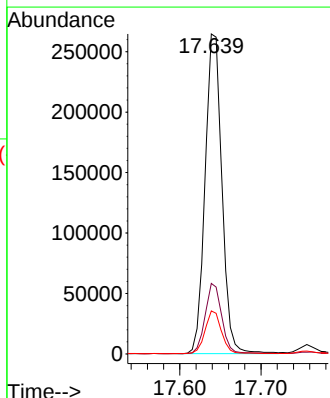
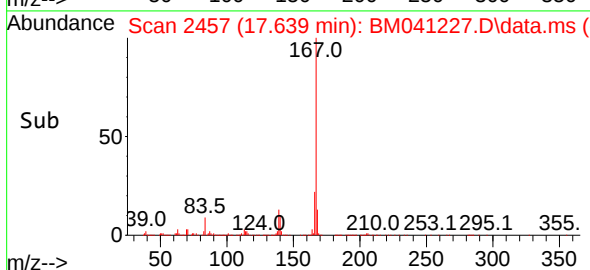
Reviewed By :Yogesh Patel 08/02/2023
 Supervised By :mohammad ahmed 08/02/2023

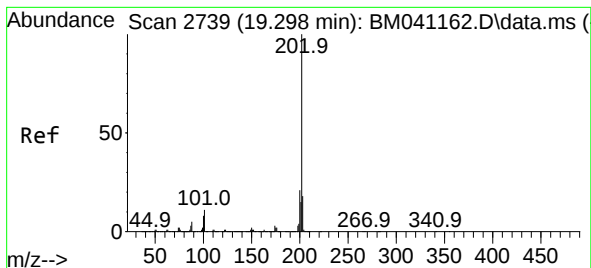


#73
 Carbazole
 Concen: 11.333 ng
 RT: 17.639 min Scan# 2457
 Delta R.T. -0.000 min
 Lab File: BM041227.D
 Acq: 01 Aug 2023 16:32



Tgt Ion:167 Resp: 380673
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.3 25.9
 139 13.5 10.3 15.5





#75

Fluoranthene

Concen: 79.871 ng

RT: 19.297 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM041227.D

Acq: 01 Aug 2023 16:32

Instrument :

BNA_M

ClientSampleId :

FL-1DL

Tgt Ion:202 Resp: 3367200

Ion Ratio Lower Upper

202 100

101 9.6 0.0 30.8

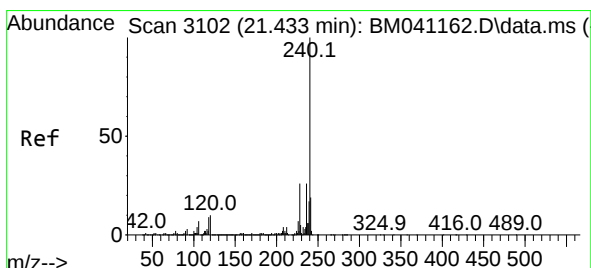
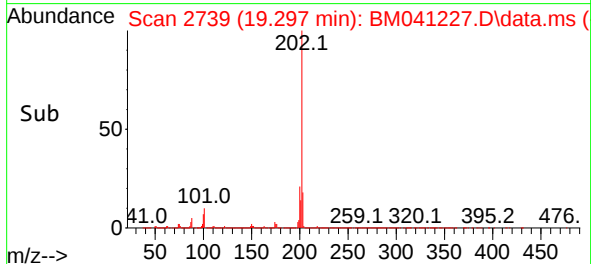
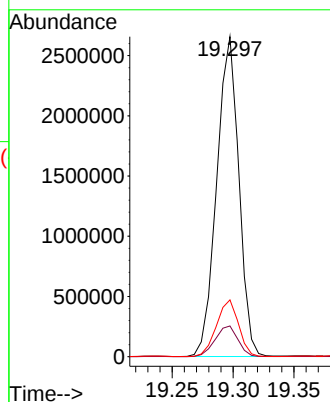
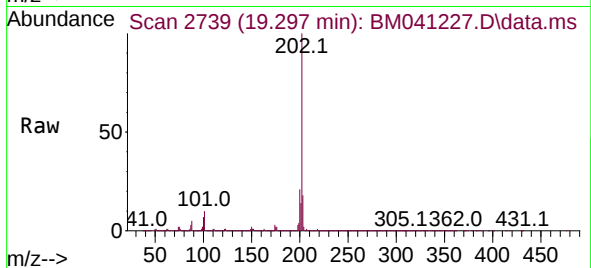
203 17.8 0.0 37.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/02/2023

Supervised By :mohammad ahmed 08/02/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.427 min Scan# 3101

Delta R.T. -0.000 min

Lab File: BM041227.D

Acq: 01 Aug 2023 16:32

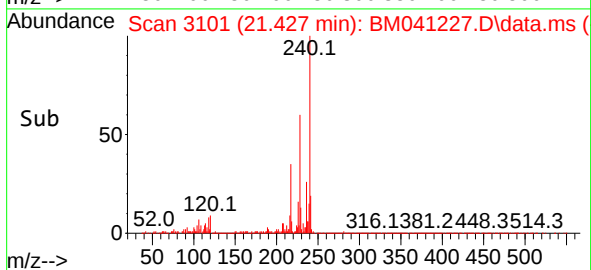
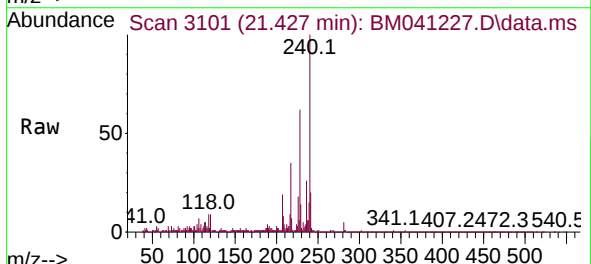
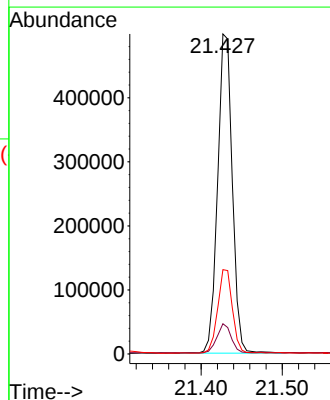
Tgt Ion:240 Resp: 626985

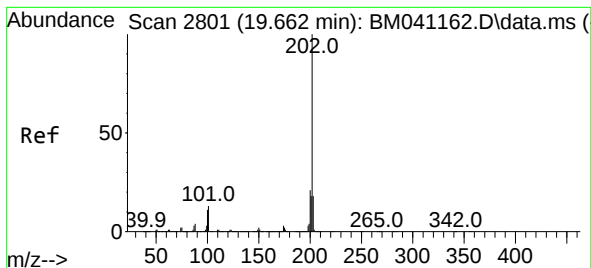
Ion Ratio Lower Upper

240 100

120 9.5 8.3 12.5

236 26.4 20.6 30.8





#78

Pyrene

Concen: 64.376 ng

RT: 19.662 min Scan# 2801

Delta R.T. 0.006 min

Lab File: BM041227.D

Acq: 01 Aug 2023 16:32

Instrument :

BNA_M

ClientSampleId :

FL-1DL

Tgt Ion:202 Resp: 282264

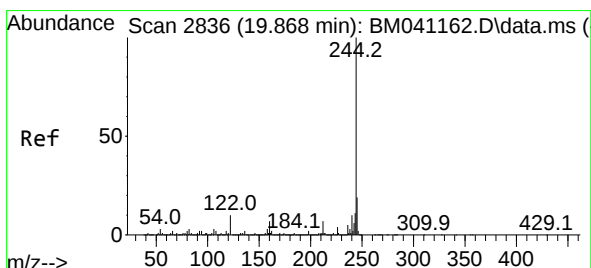
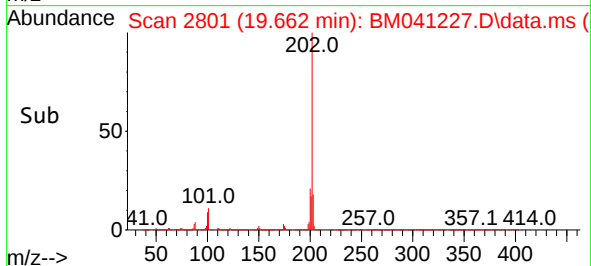
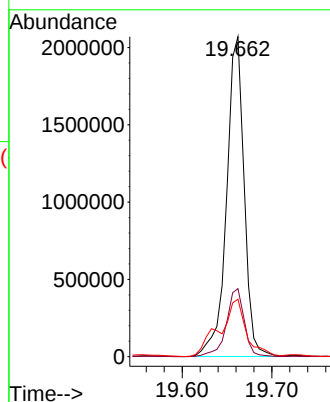
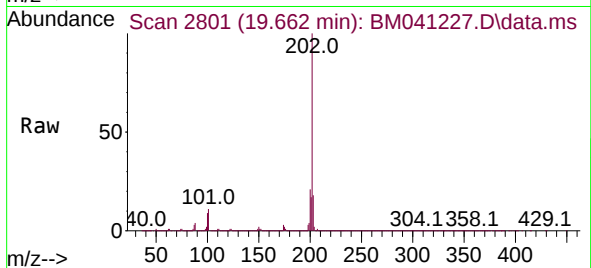
Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	17.9	14.1	21.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/02/2023

Supervised By :mohammad ahmed 08/02/2023



#79

Terphenyl-d14

Concen: 5.839 ng

RT: 19.862 min Scan# 2835

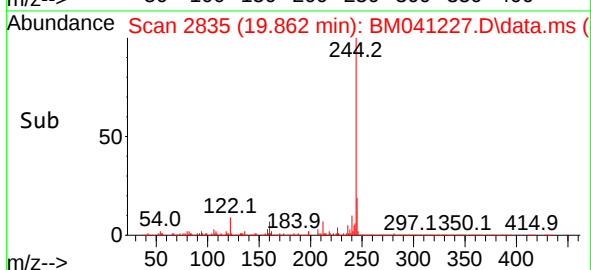
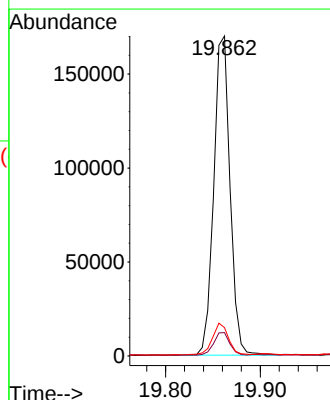
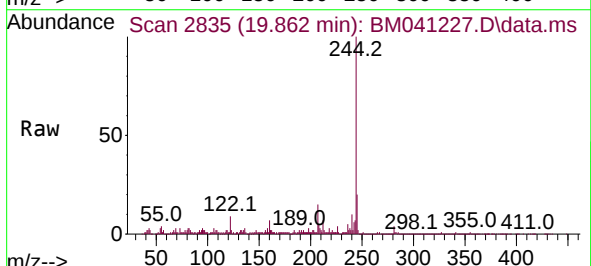
Delta R.T. -0.000 min

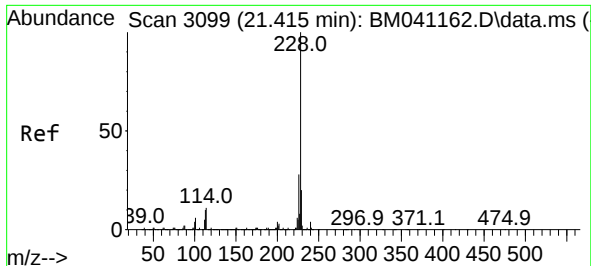
Lab File: BM041227.D

Acq: 01 Aug 2023 16:32

Tgt Ion:244 Resp: 202472

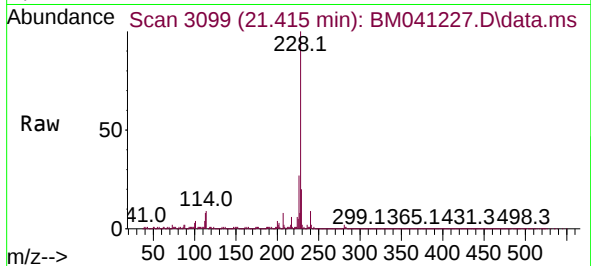
Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.4	8.2
122	8.8	7.8	11.6





#81
Benzo(a)anthracene
Concen: 33.635 ng
RT: 21.415 min Scan# 3099
Delta R.T. 0.006 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32

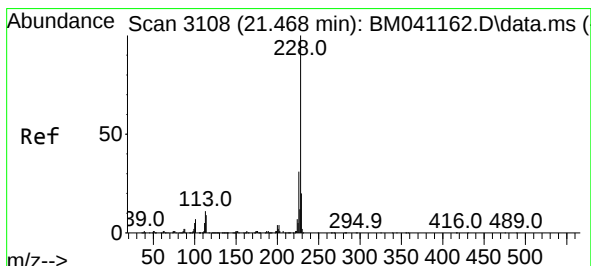
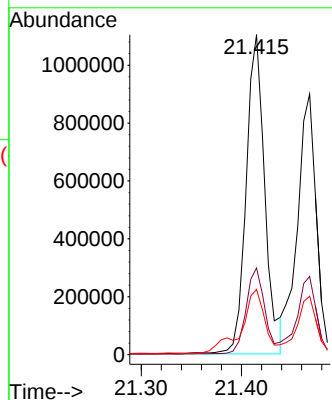
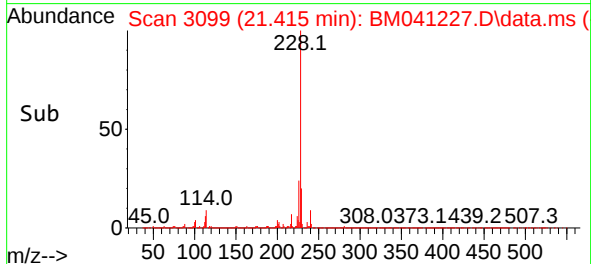
Instrument :
BNA_M
ClientSampleId :
FL-1DL



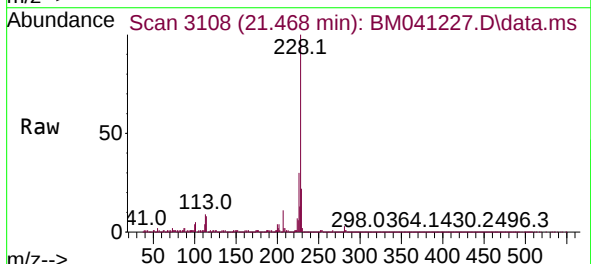
Tgt Ion:228 Resp: 142965
Ion Ratio Lower Upper
228 100
226 27.1 22.4 33.6
229 20.4 15.8 23.8

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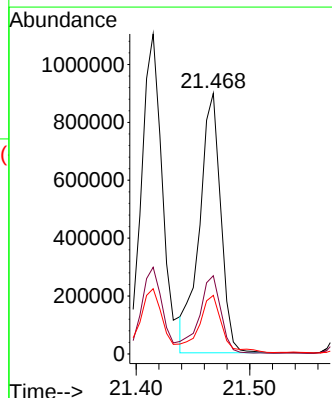
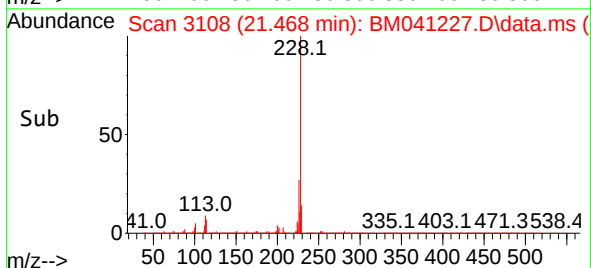
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

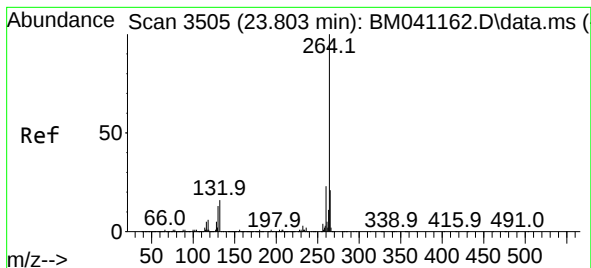


#83
Chrysene
Concen: 28.468 ng
RT: 21.468 min Scan# 3108
Delta R.T. 0.006 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32



Tgt Ion:228 Resp: 1170383
Ion Ratio Lower Upper
228 100
226 30.0 24.5 36.7
229 22.4 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.803 min Scan# 3505

Delta R.T. 0.006 min

Lab File: BM041227.D

Acq: 01 Aug 2023 16:32

Instrument :

BNA_M

ClientSampleId :

FL-1DL

Tgt Ion:264 Resp: 704399

Ion Ratio Lower Upper

264 100

260 23.5 18.5 27.7

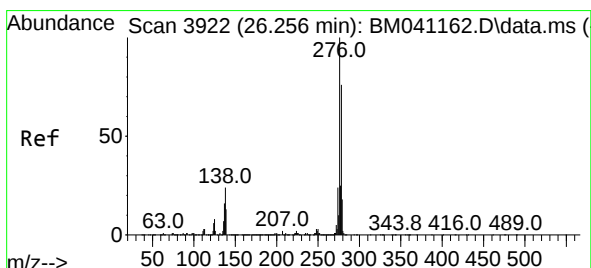
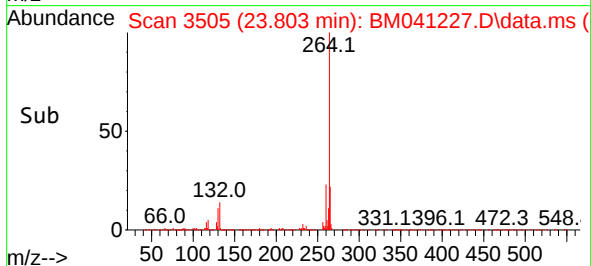
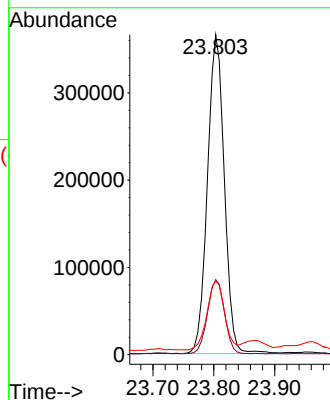
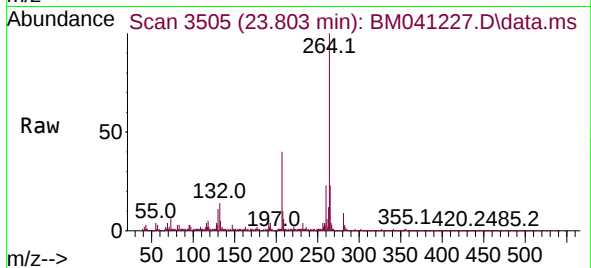
265 23.0 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/02/2023

Supervised By :mohammad ahmed 08/02/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 12.175 ng

RT: 26.256 min Scan# 3922

Delta R.T. 0.012 min

Lab File: BM041227.D

Acq: 01 Aug 2023 16:32

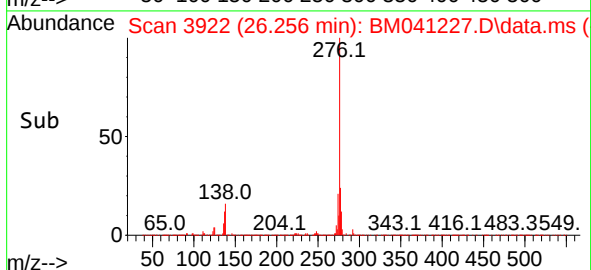
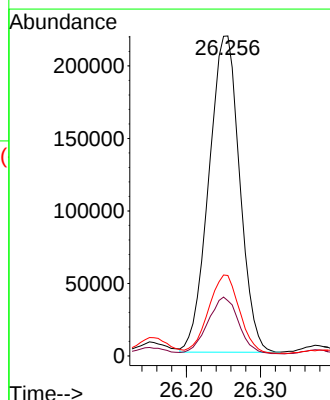
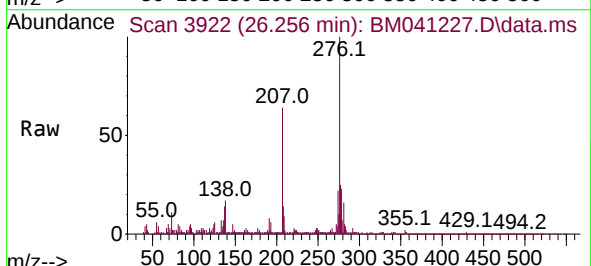
Tgt Ion:276 Resp: 630548

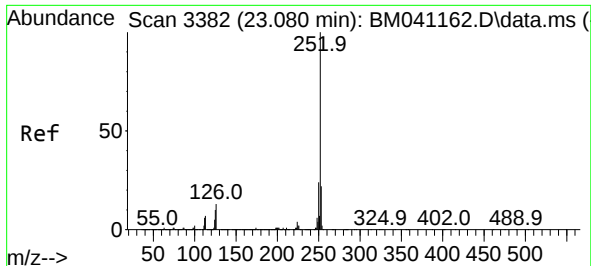
Ion Ratio Lower Upper

276 100

138 18.0 20.0 30.0#

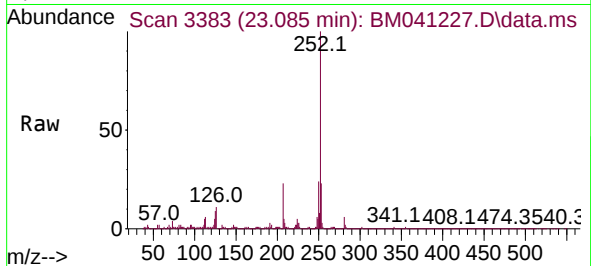
277 24.9 20.1 30.1





#88
Benzo(b)fluoranthene
Concen: 34.654 ng
RT: 23.085 min Scan# 3382
Delta R.T. 0.012 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32

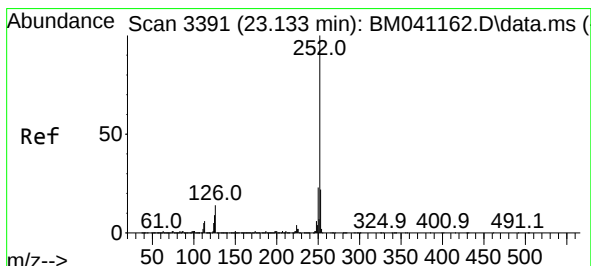
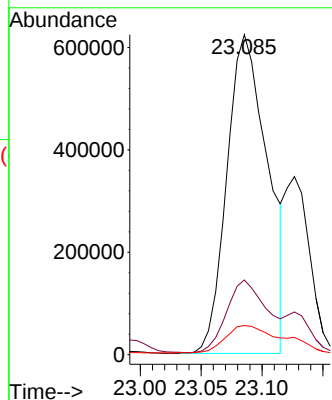
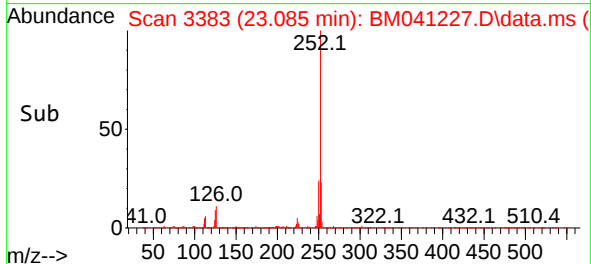
Instrument :
BNA_M
ClientSampleId :
FL-1DL



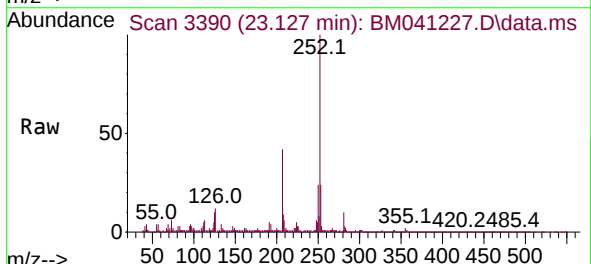
Tgt Ion:252 Resp: 1450130
Ion Ratio Lower Upper
252 100
253 23.3 17.7 26.5
125 9.1 8.2 12.4

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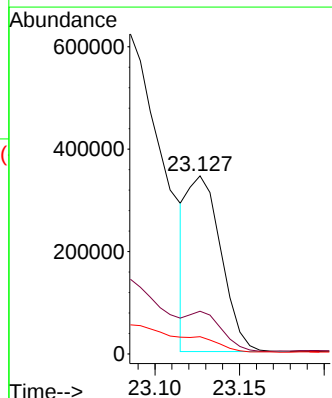
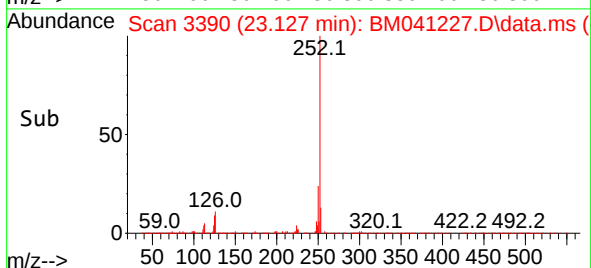
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

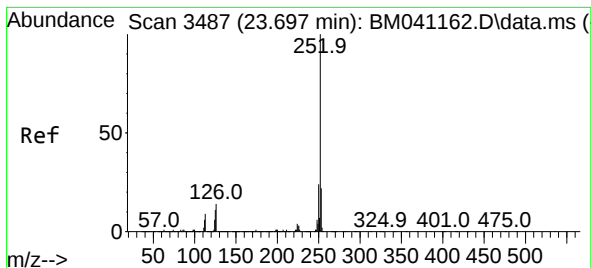


#89
Benzo(k)fluoranthene
Concen: 11.053 ng m
RT: 23.127 min Scan# 3390
Delta R.T. 0.006 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32



Tgt Ion:252 Resp: 473100
Ion Ratio Lower Upper
252 100
253 24.0 17.4 26.0
125 9.7 7.6 11.4





#90

Benzo(a)pyrene

Concen: 27.174 ng

RT: 23.697 min Scan# 3487

Delta R.T. 0.006 min

Lab File: BM041227.D

Acq: 01 Aug 2023 16:32

Instrument :

BNA_M

ClientSampleId :

FL-1DL

Tgt Ion:252 Resp: 1092608

Ion Ratio Lower Upper

252 100

253 23.5 17.3 25.9

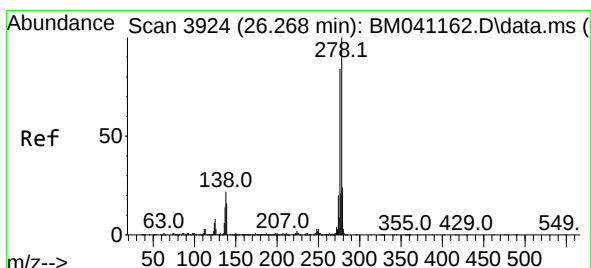
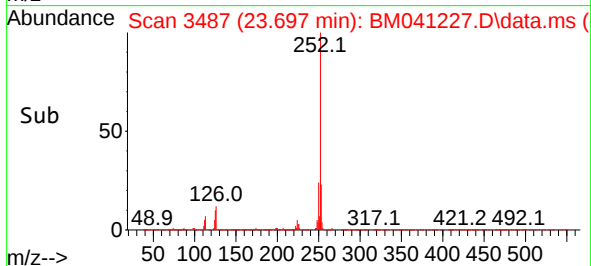
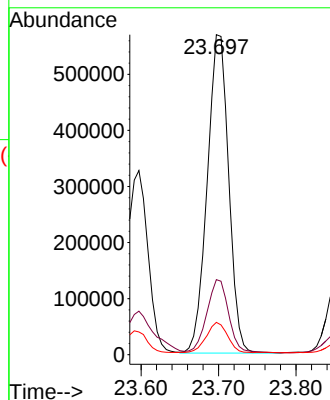
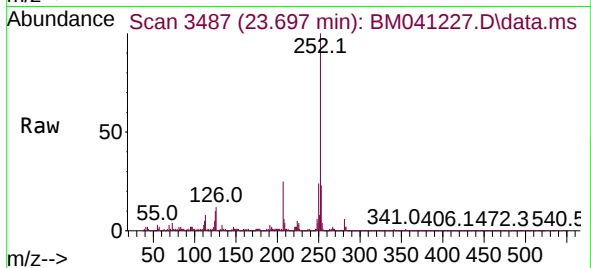
125 10.1 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/02/2023

Supervised By :mohammad ahmed 08/02/2023



#91

Dibenzo(a,h)anthracene

Concen: 3.972 ng

RT: 26.256 min Scan# 3922

Delta R.T. -0.000 min

Lab File: BM041227.D

Acq: 01 Aug 2023 16:32

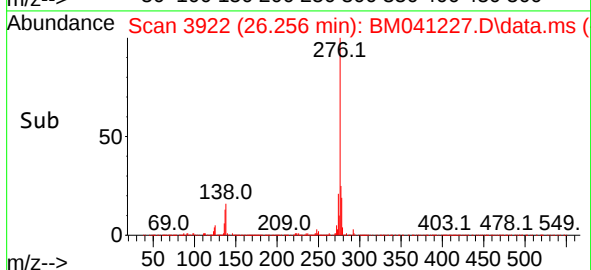
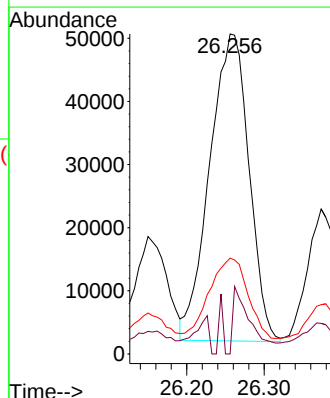
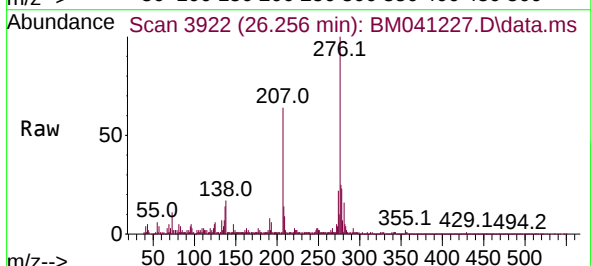
Tgt Ion:278 Resp: 171595

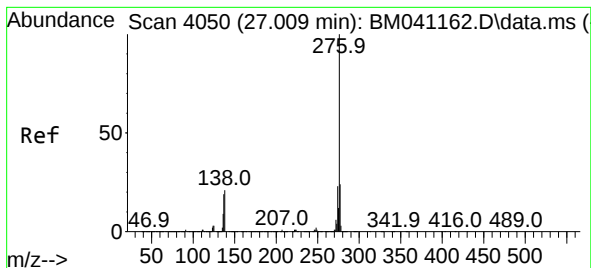
Ion Ratio Lower Upper

278 100

139 0.0 12.7 19.1#

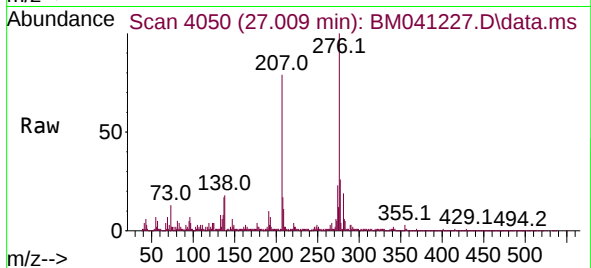
279 29.9 19.1 28.7#





#92
Benzo(g,h,i)perylene
Concen: 13.534 ng
RT: 27.009 min Scan# 4050
Delta R.T. 0.012 min
Lab File: BM041227.D
Acq: 01 Aug 2023 16:32

Instrument :
BNA_M
ClientSampleId :
FL-1DL



Tgt Ion: 276 Resp: 57205
Ion Ratio Lower Upper
276 100
277 25.9 19.1 28.7
138 18.0 17.1 25.7

Manual Integrations
APPROVED

Reviewed By : Yogesh Patel 08/02/2023
Supervised By : mohammad ahmed 08/02/2023

