

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
 Data File : BM042518.D
 Acq On : 31 Oct 2023 19:34
 Operator : MA/JU
 Sample : 04938-03
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A-2(0-2)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

Quant Time: Nov 01 01:49:07 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 02:55:18 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	77998	20.000	ng	0.00
21) Naphthalene-d8	10.739	136	281689	20.000	ng	-0.01
39) Acenaphthene-d10	14.574	164	162902	20.000	ng	0.00
64) Phenanthrene-d10	17.321	188	355569	20.000	ng	0.00
76) Chrysene-d12	21.503	240	387329	20.000	ng	0.00
86) Perylene-d12	23.927	264	427906	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.463	112	445046	92.086	ng	0.00
7) Phenol-d6	7.087	99	568489	85.768	ng	-0.01
23) Nitrobenzene-d5	9.122	82	382200	63.250	ng	-0.01
42) 2,4,6-Tribromophenol	16.068	330	198467	93.316	ng	0.00
45) 2-Fluorobiphenyl	13.192	172	619705	51.189	ng	0.00
79) Terphenyl-d14	19.939	244	924223	40.460	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.792	128	53284	3.661	ng	99
49) Acenaphthylene	14.304	152	235449	15.562	ng	99
58) Fluorene	15.621	166	30451	2.521	ng	99
71) Phenanthrene	17.362	178	384821	20.710	ng	99
72) Anthracene	17.457	178	170621	9.270	ng	100
75) Fluoranthene	19.380	202	1126249	51.598	ng	99
78) Pyrene	19.745	202	1209811	45.488	ng	99
81) Benzo(a)anthracene	21.492	228	719755m	29.206	ng	
83) Chrysene	21.545	228	638289m	25.498	ng	
87) Indeno(1,2,3-cd)pyrene	26.450	276	449644	17.655	ng	# 93
88) Benzo(b)fluoranthene	23.180	252	948996	39.808	ng	99
89) Benzo(k)fluoranthene	23.221	252	279689m	10.529	ng	
90) Benzo(a)pyrene	23.821	252	728127	31.023	ng	98
91) Dibenzo(a,h)anthracene	26.462	278	114520	8.589	ng	# 79
92) Benzo(g,h,i)perylene	27.244	276	464836	20.709	ng	97

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

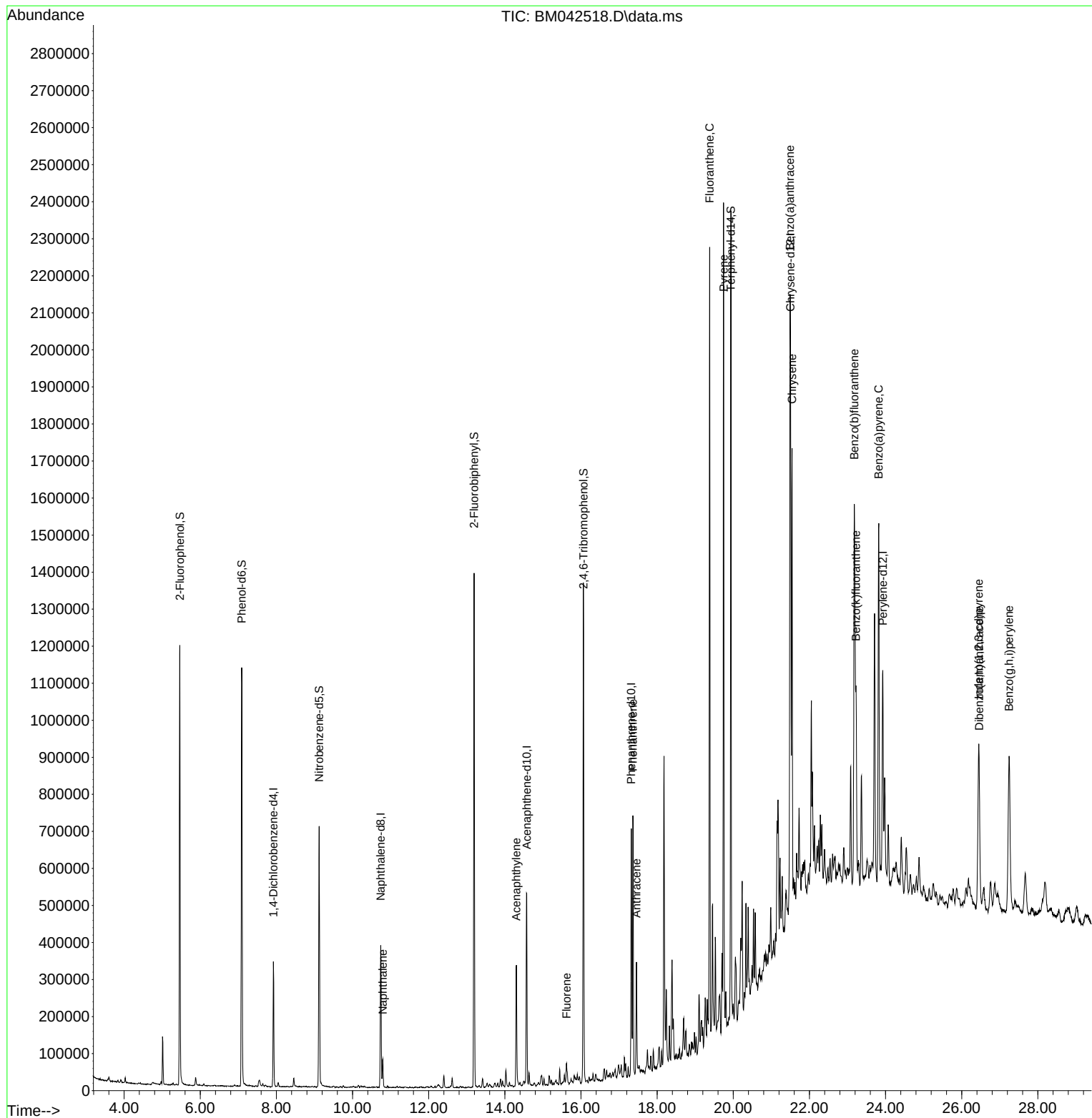
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042518.D
Acq On : 31 Oct 2023 19:34
Operator : MA/JU
Sample : 04938-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

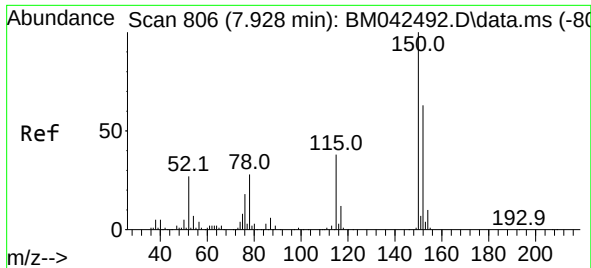
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)

Quant Time: Nov 01 01:49:07 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 31 02:55:18 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

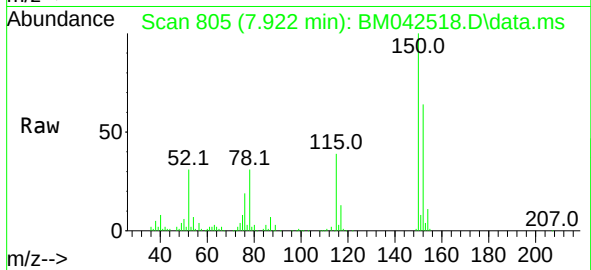
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.922 min Scan# 806
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

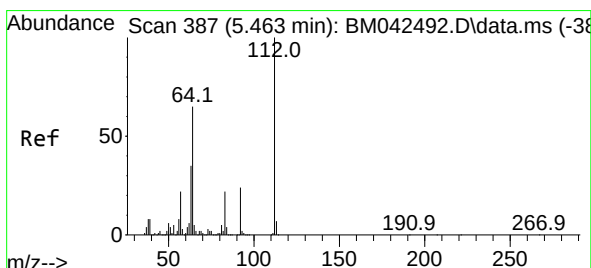
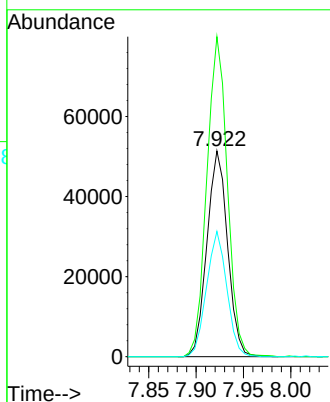
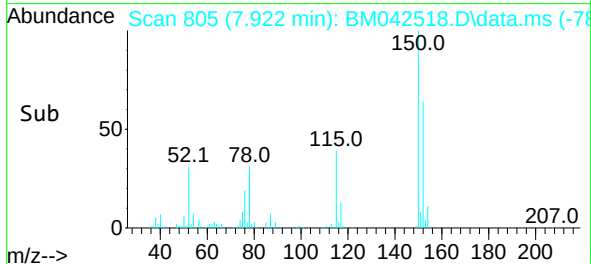
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)



Tgt Ion:152 Resp: 77998
Ion Ratio Lower Upper
152 100
150 155.5 127.4 191.0
115 60.9 47.9 71.9

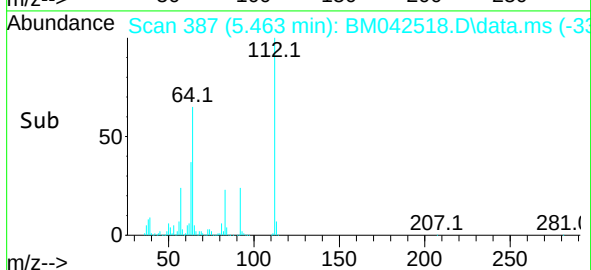
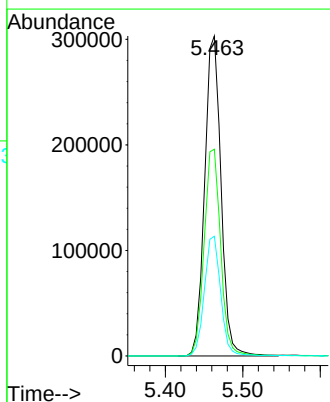
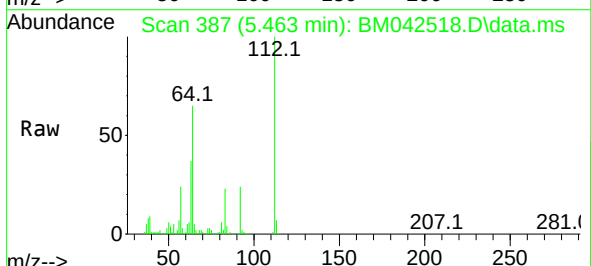
Manual Integrations
APPROVED

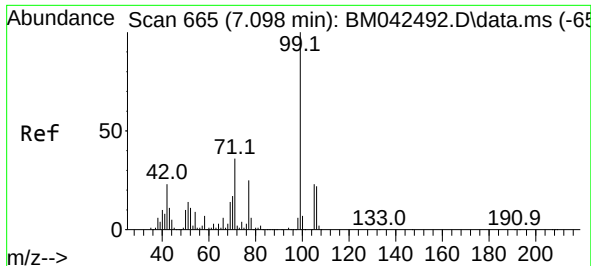
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#5
2-Fluorophenol
Concen: 92.086 ng
RT: 5.463 min Scan# 387
Delta R.T. -0.000 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

Tgt Ion:112 Resp: 445046
Ion Ratio Lower Upper
112 100
64 64.6 52.1 78.1
63 37.4 28.3 42.5





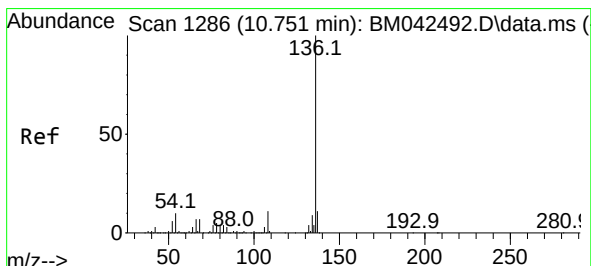
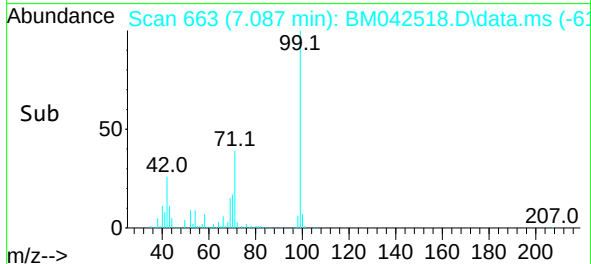
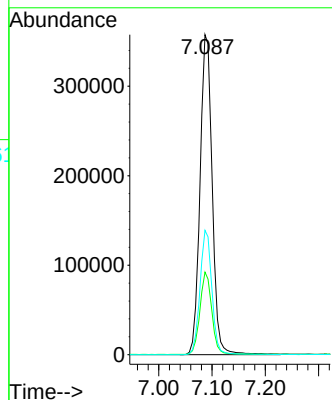
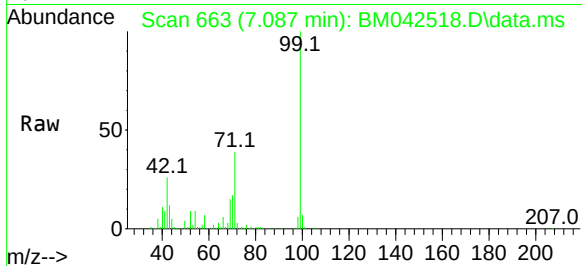
#7
Phenol-d6
Concen: 85.768 ng
RT: 7.087 min Scan# 60
Delta R.T. -0.012 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

Instrument :
BNA_M
ClientSampleId :
A-2(0-2)

Tgt Ion: 99 Resp: 568489
Ion Ratio Lower Upper
99 100
42 25.8 18.7 28.1
71 38.8 29.1 43.7

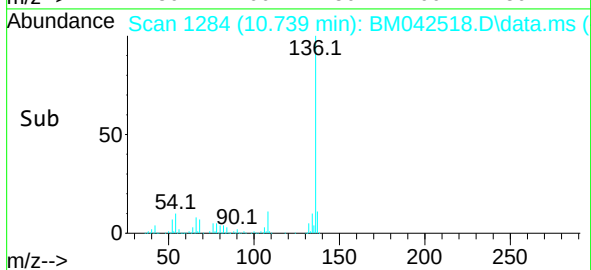
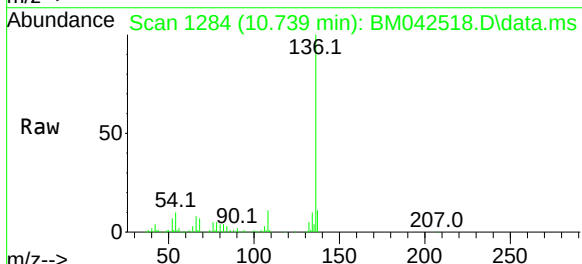
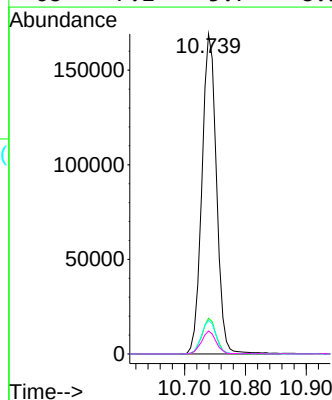
Manual Integrations
APPROVED

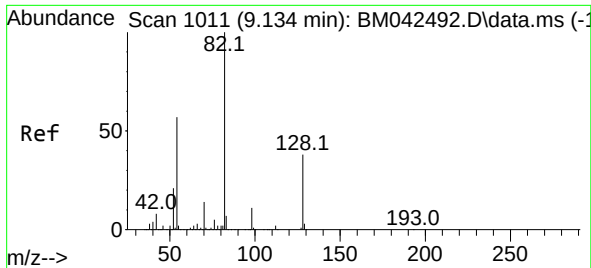
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.739 min Scan# 1284
Delta R.T. -0.012 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

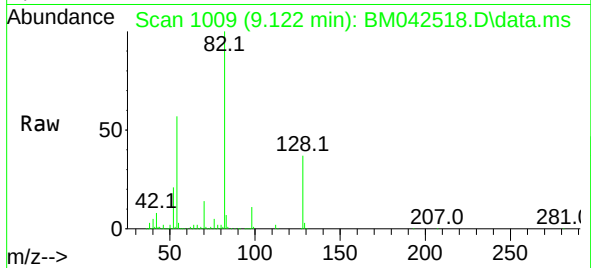
Tgt Ion:136 Resp: 281689
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.6
54 10.5 8.0 12.0
68 7.2 5.7 8.5





#23
Nitrobenzene-d5
Concen: 63.250 ng
RT: 9.122 min Scan# 1009
Delta R.T. -0.012 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

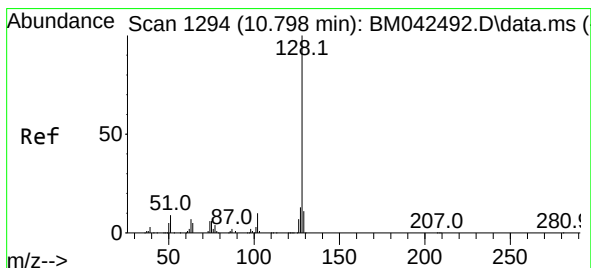
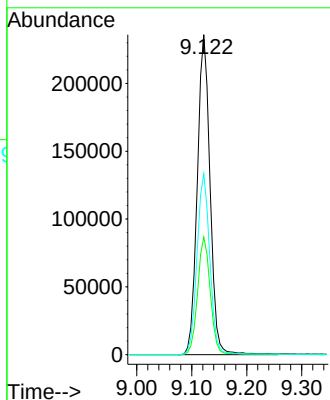
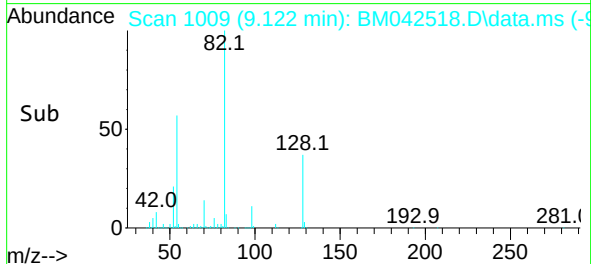
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)



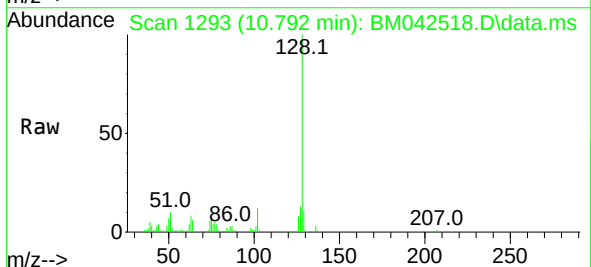
Tgt Ion: 82 Resp: 382200
Ion Ratio Lower Upper
82 100
128 36.7 30.7 46.1
54 56.6 45.3 67.9

Manual Integrations
APPROVED

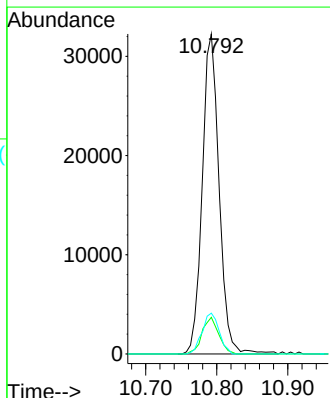
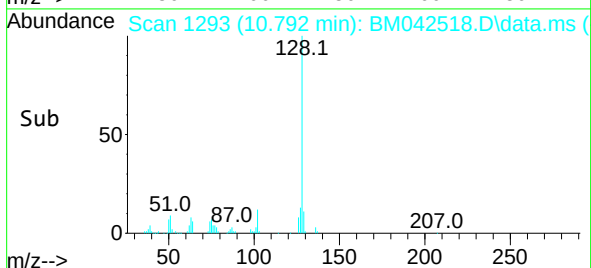
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

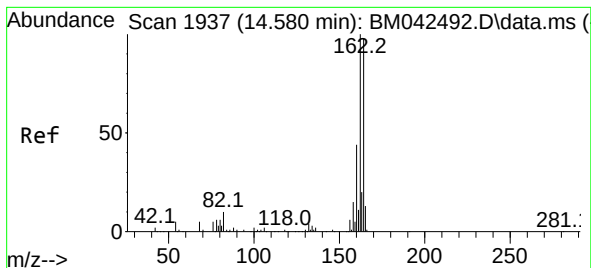


#31
Naphthalene
Concen: 3.661 ng
RT: 10.792 min Scan# 1293
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34



Tgt Ion:128 Resp: 53284
Ion Ratio Lower Upper
128 100
129 11.4 8.8 13.2
127 12.7 10.6 15.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.574 min Scan# 1936

Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

Instrument :

BNA_M

ClientSampleId :

A-2(0-2)

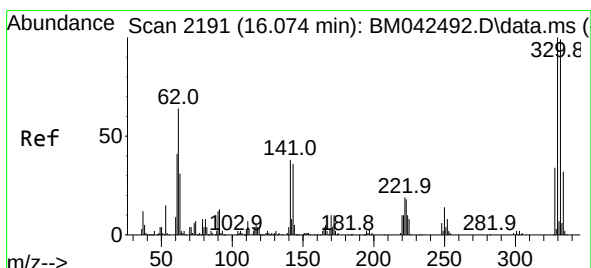
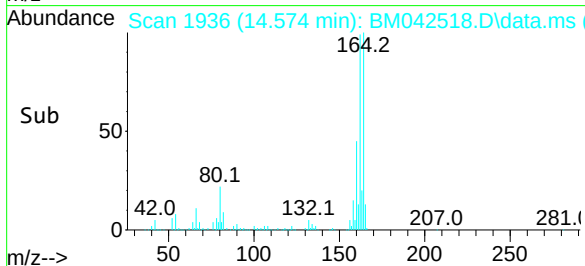
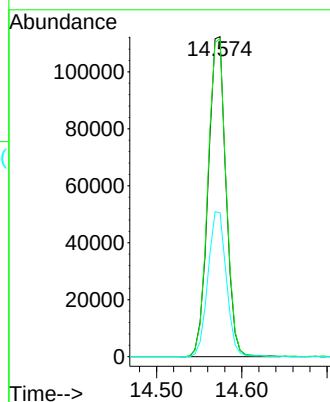
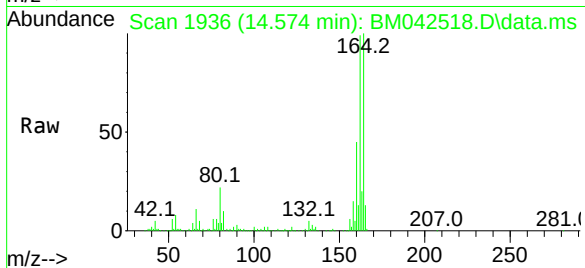
Tgt Ion:164 Resp: 162902
 Ion Ratio Lower Upper
 164 100
 162 99.4 81.6 122.4
 160 45.0 36.2 54.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#42

2,4,6-Tribromophenol

Concen: 93.316 ng

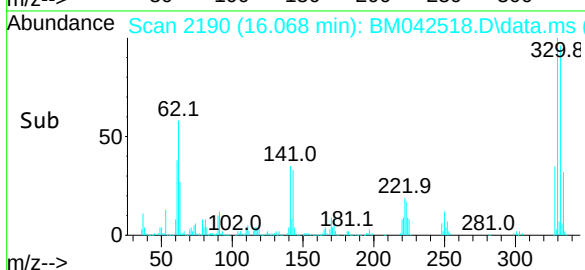
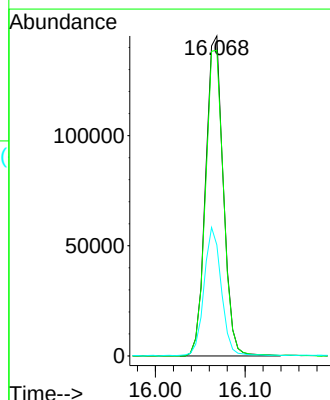
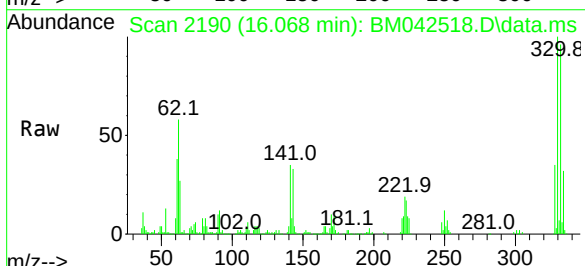
RT: 16.068 min Scan# 2190

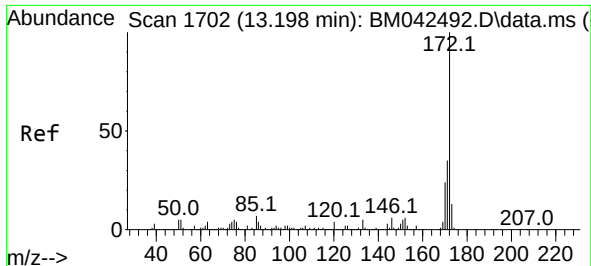
Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

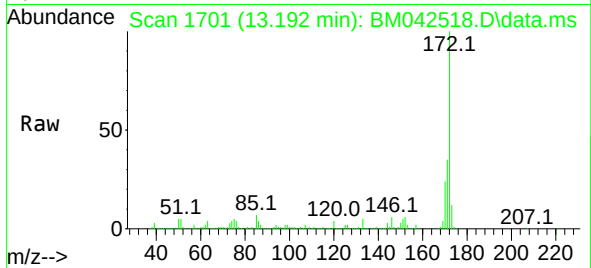
Tgt Ion:330 Resp: 198467
 Ion Ratio Lower Upper
 330 100
 332 97.7 78.8 118.2
 141 39.8 31.1 46.7





#45
2-Fluorobiphenyl
Concen: 51.189 ng
RT: 13.192 min Scan# 1701
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

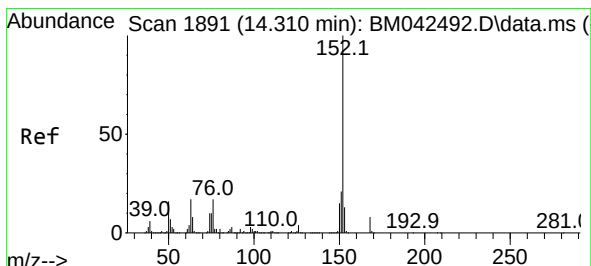
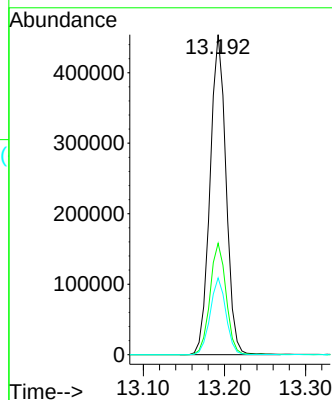
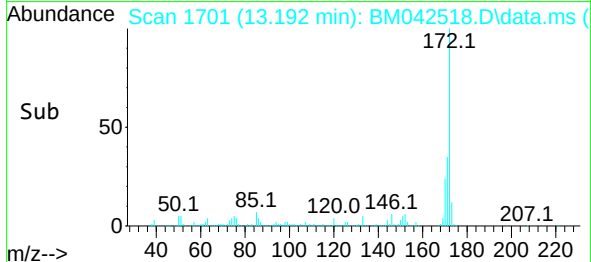
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)



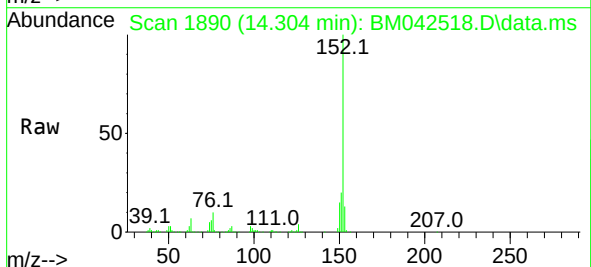
Tgt Ion:172 Resp: 61970
Ion Ratio Lower Upper
172 100
171 34.8 28.2 42.2
170 24.0 19.0 28.4

Manual Integrations
APPROVED

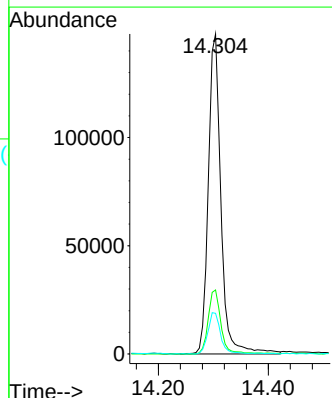
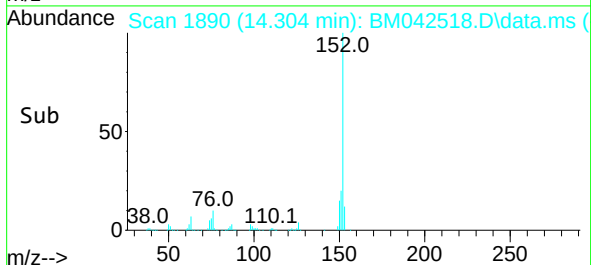
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

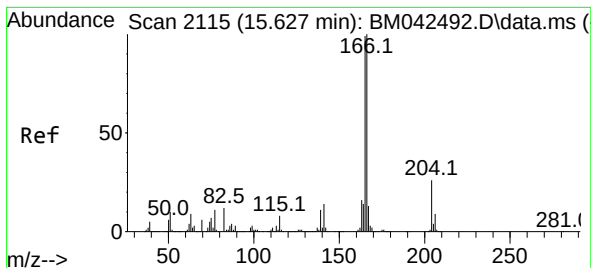


#49
Acenaphthylene
Concen: 15.562 ng
RT: 14.304 min Scan# 1890
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34



Tgt Ion:152 Resp: 235449
Ion Ratio Lower Upper
152 100
151 20.0 16.4 24.6
153 12.7 10.4 15.6





#58

Fluorene

Concen: 2.521 ng

RT: 15.621 min Scan# 2115

Delta R.T. -0.006 min

Lab File: BM042518.D

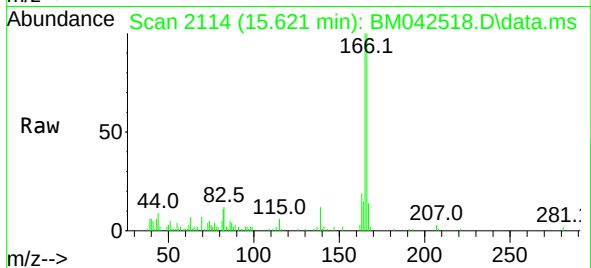
Acq: 31 Oct 2023 19:34

Instrument :

BNA_M

ClientSampleId :

A-2(0-2)



Tgt Ion:166 Resp: 3045

Ion Ratio Lower Upper

166 100

165 100.3 79.3 118.9

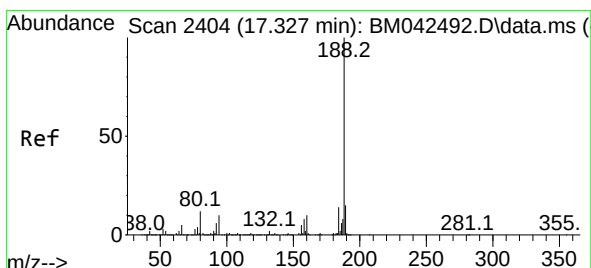
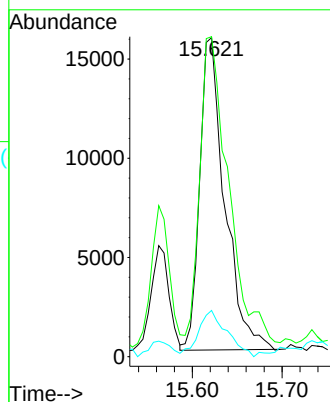
167 14.5 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.321 min Scan# 2403

Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

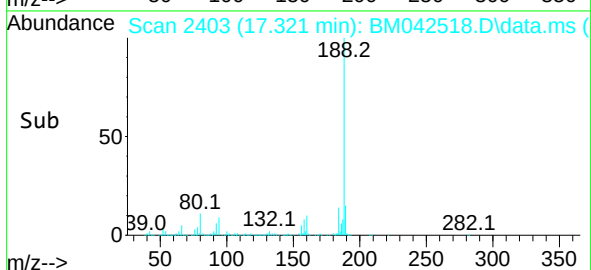
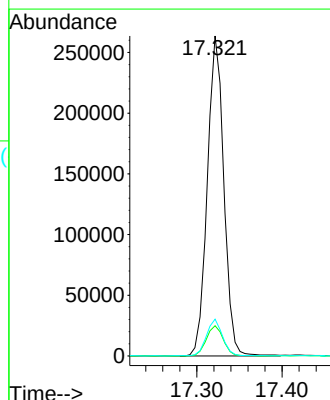
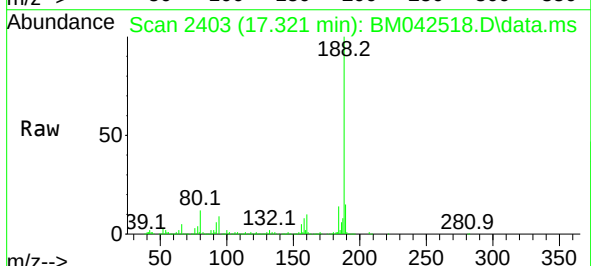
Tgt Ion:188 Resp: 355569

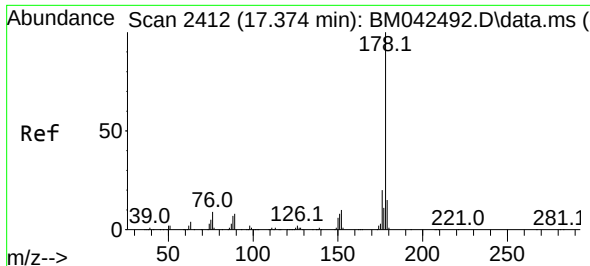
Ion Ratio Lower Upper

188 100

94 9.4 8.2 12.4

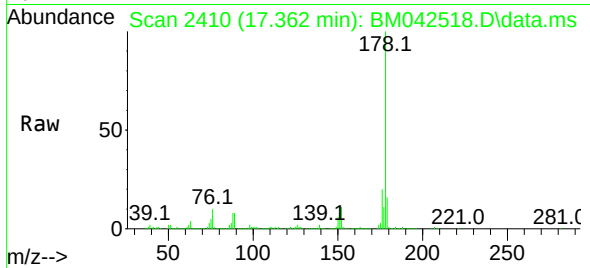
80 11.5 9.4 14.2





#71
Phenanthrene
Concen: 20.710 ng
RT: 17.362 min Scan# 2412
Delta R.T. -0.012 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

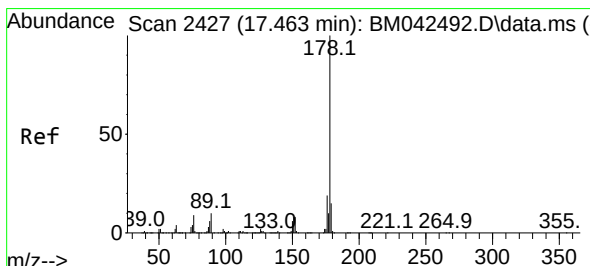
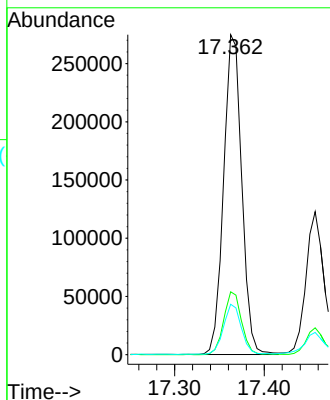
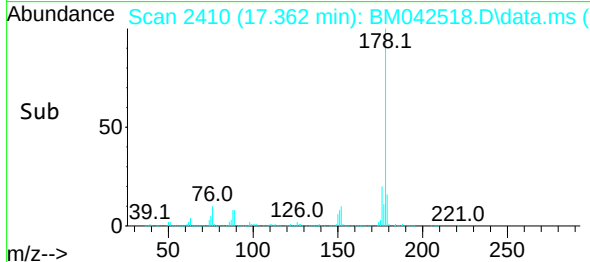
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)



Tgt Ion:178 Resp: 38482
Ion Ratio Lower Upper
178 100
176 19.7 15.8 23.8
179 15.7 12.2 18.4

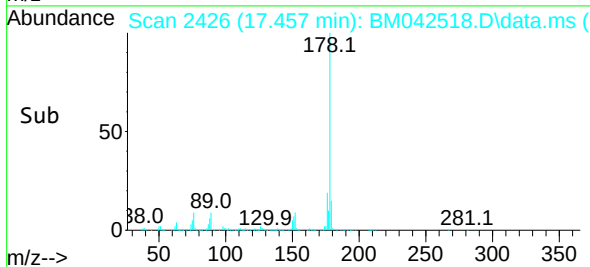
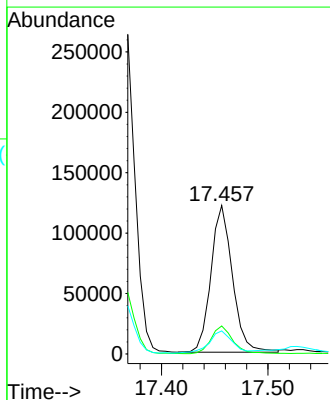
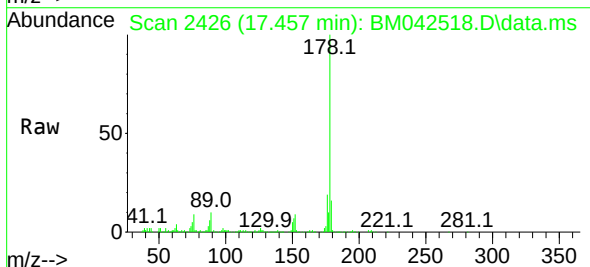
Manual Integrations
APPROVED

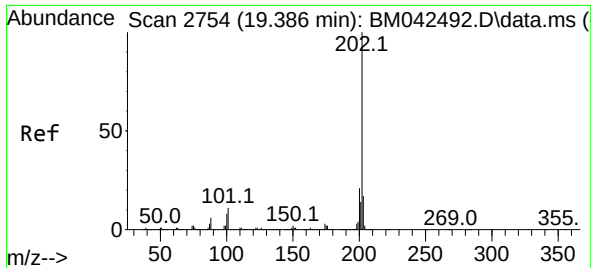
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#72
Anthracene
Concen: 9.270 ng
RT: 17.457 min Scan# 2426
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

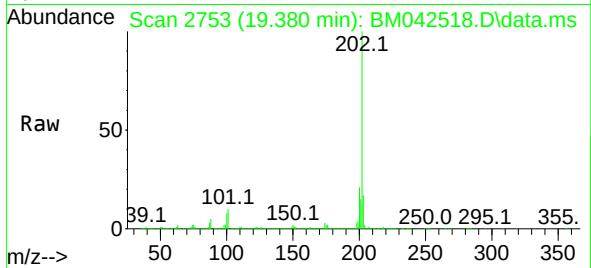
Tgt Ion:178 Resp: 170621
Ion Ratio Lower Upper
178 100
176 18.8 15.2 22.8
179 15.5 12.3 18.5





#75
Fluoranthene
Concen: 51.598 ng
RT: 19.380 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

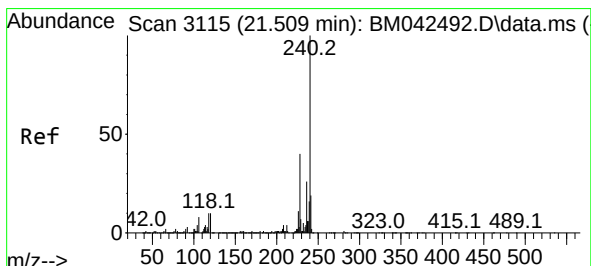
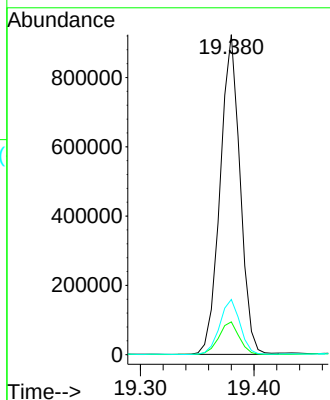
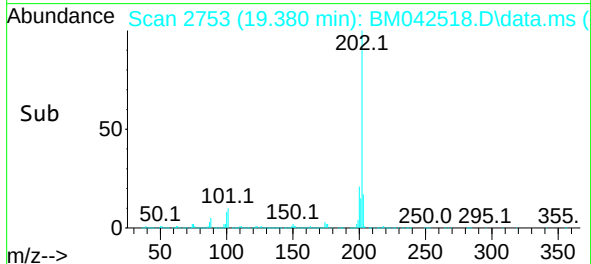
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)



Tgt Ion:202 Resp: 1126249
Ion Ratio Lower Upper
202 100
101 10.2 0.0 30.5
203 17.3 0.0 37.0

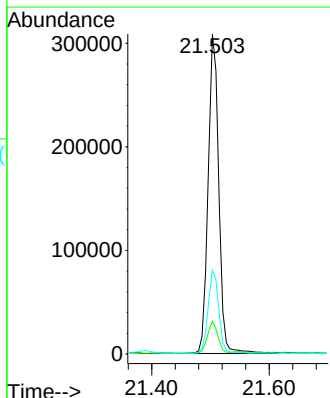
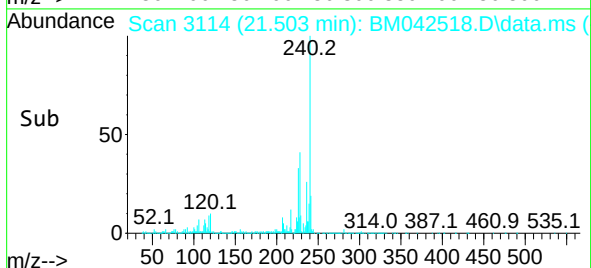
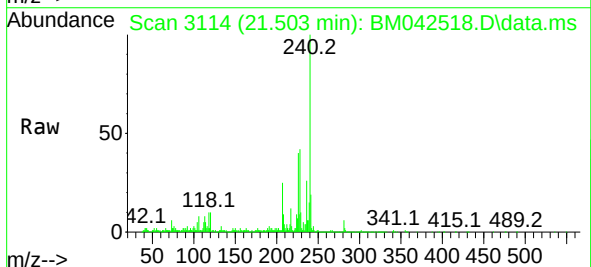
Manual Integrations
APPROVED

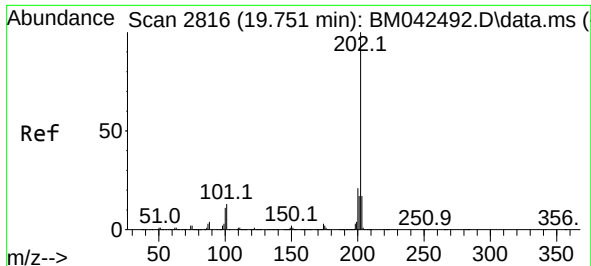
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.503 min Scan# 3114
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

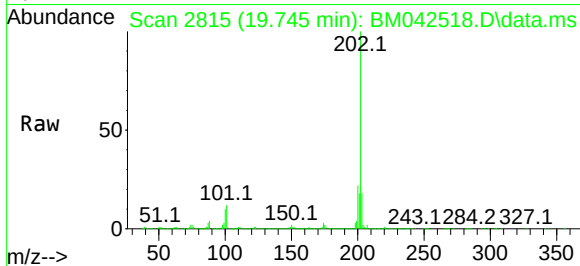
Tgt Ion:240 Resp: 387329
Ion Ratio Lower Upper
240 100
120 10.3 8.3 12.5
236 26.2 20.8 31.2





#78
Pyrene
Concen: 45.488 ng
RT: 19.745 min Scan# 2816
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

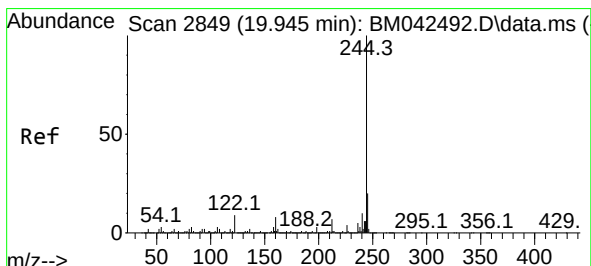
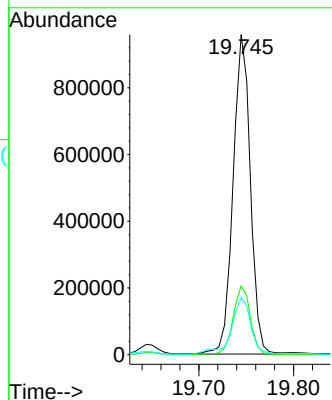
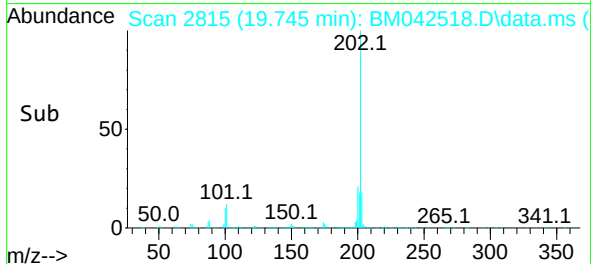
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)



Tgt Ion:202 Resp: 120981
Ion Ratio Lower Upper
202 100
200 21.5 16.9 25.3
203 17.8 13.7 20.5

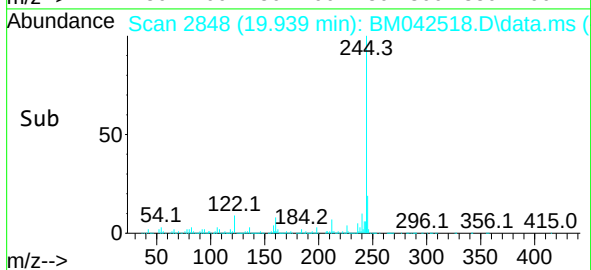
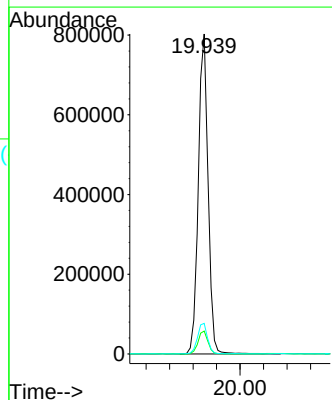
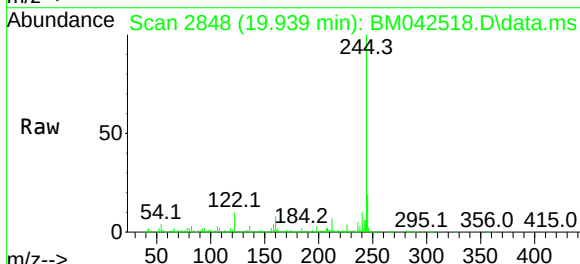
Manual Integrations
APPROVED

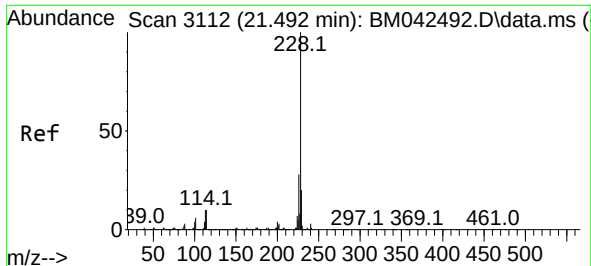
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#79
Terphenyl-d14
Concen: 40.460 ng
RT: 19.939 min Scan# 2848
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

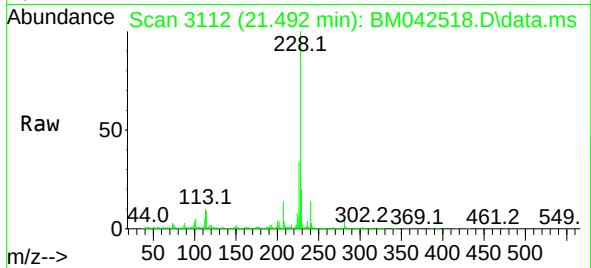
Tgt Ion:244 Resp: 924223
Ion Ratio Lower Upper
244 100
212 7.1 5.4 8.2
122 9.5 7.2 10.8





#81
Benzo(a)anthracene
Concen: 29.206 ng m
RT: 21.492 min Scan# 3112
Delta R.T. -0.000 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

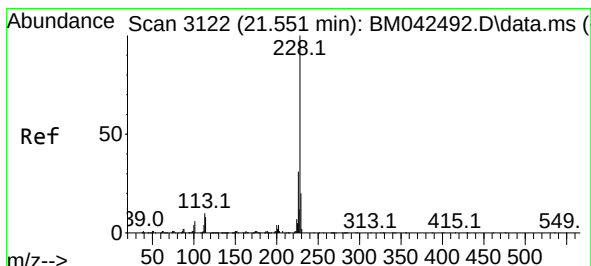
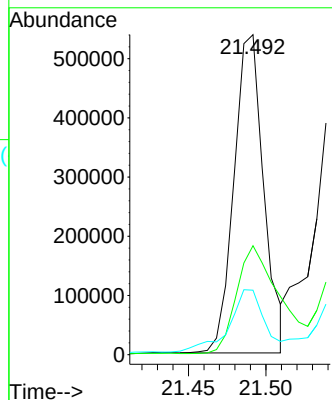
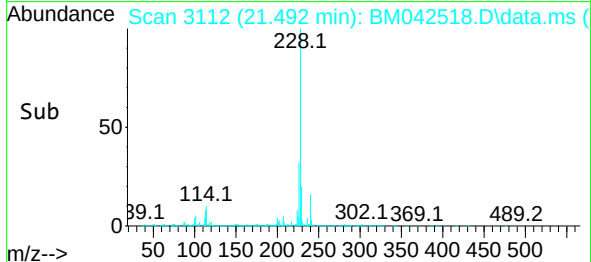
Instrument :
BNA_M
ClientSampleId :
A-2(0-2)



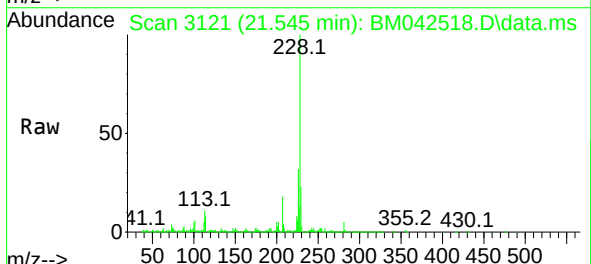
Tgt Ion:228 Resp: 71975
Ion Ratio Lower Upper
228 100
226 34.1 22.3 33.5
229 20.2 15.8 23.8

Manual Integrations
APPROVED

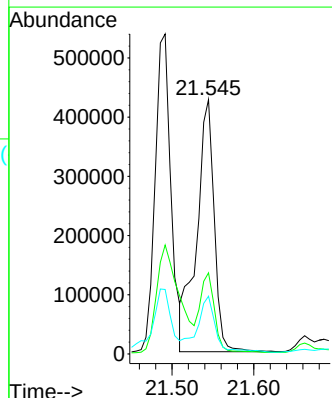
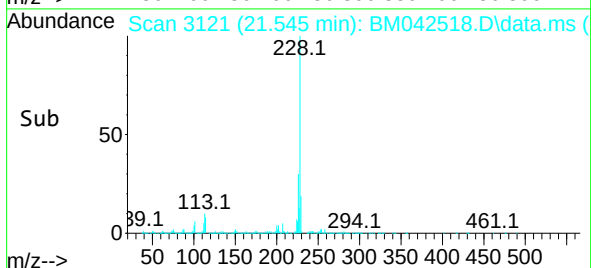
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

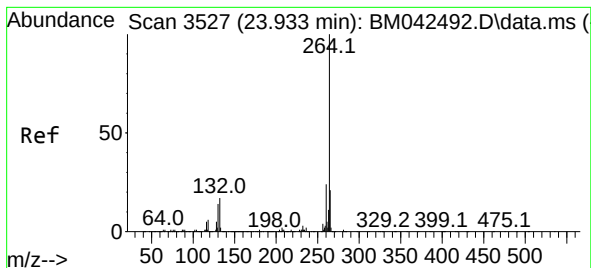


#83
Chrysene
Concen: 25.498 ng m
RT: 21.545 min Scan# 3121
Delta R.T. -0.006 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34



Tgt Ion:228 Resp: 638289
Ion Ratio Lower Upper
228 100
226 31.9 24.4 36.6
229 22.7 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.927 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

Instrument :

BNA_M

ClientSampleId :

A-2(0-2)

Tgt Ion:264 Resp: 427900

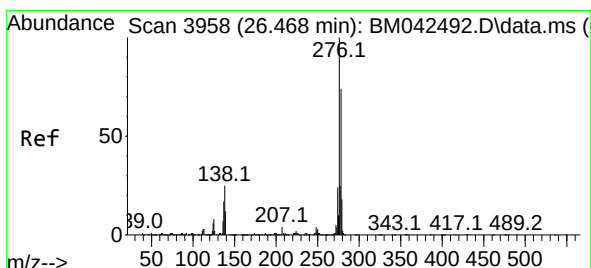
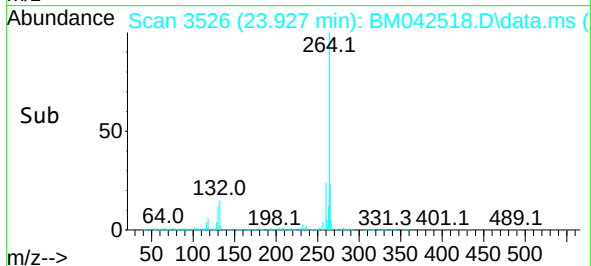
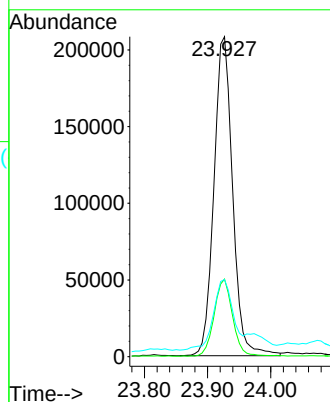
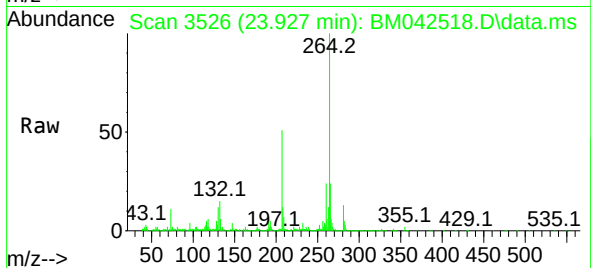
Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.0	28.4
265	24.1	18.7	28.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 17.655 ng

RT: 26.450 min Scan# 3955

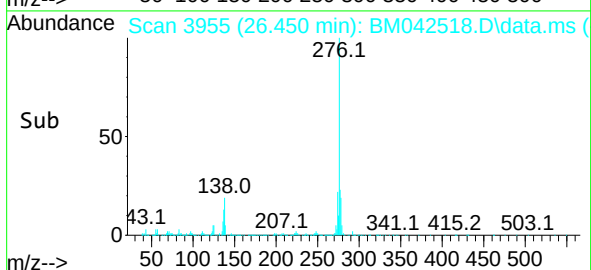
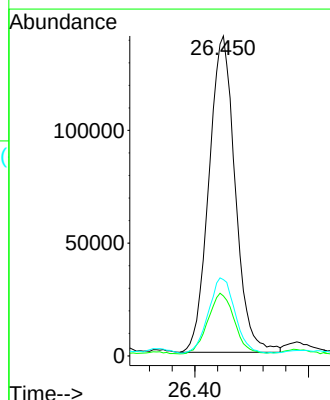
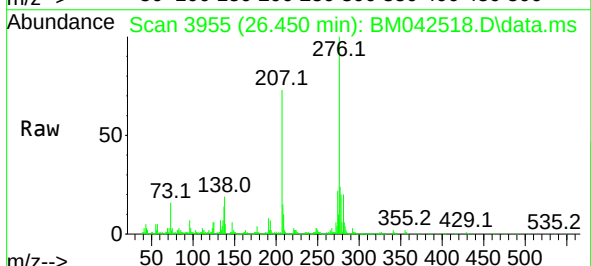
Delta R.T. -0.018 min

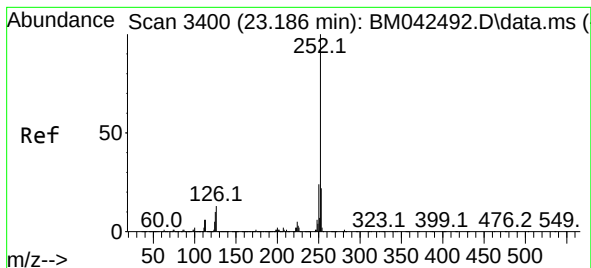
Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

Tgt Ion:276 Resp: 449644

Ion	Ratio	Lower	Upper
276	100		
138	19.3	20.6	31.0#
277	23.9	19.5	29.3





#88

Benzo(b)fluoranthene

Concen: 39.808 ng

RT: 23.180 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

Instrument :

BNA_M

ClientSampleId :

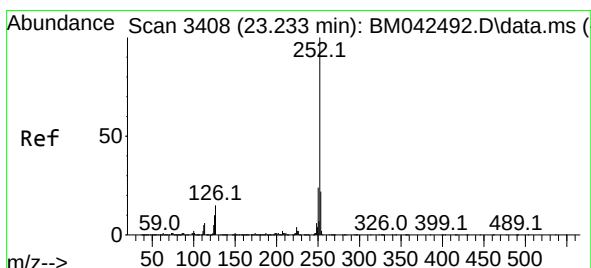
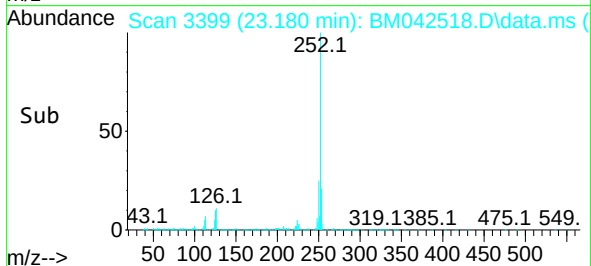
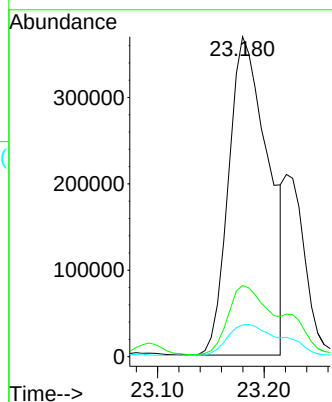
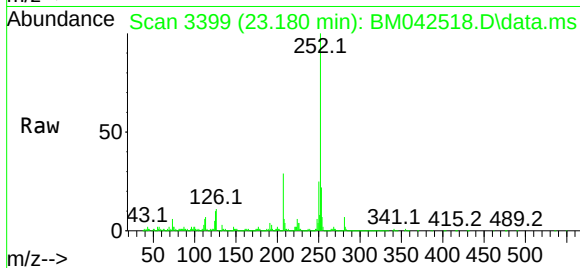
A-2(0-2)

Tgt Ion:252 Resp: 948990
 Ion Ratio Lower Upper
 252 100
 253 22.3 17.5 26.3
 125 9.9 7.8 11.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023



#89

Benzo(k)fluoranthene

Concen: 10.529 ng m

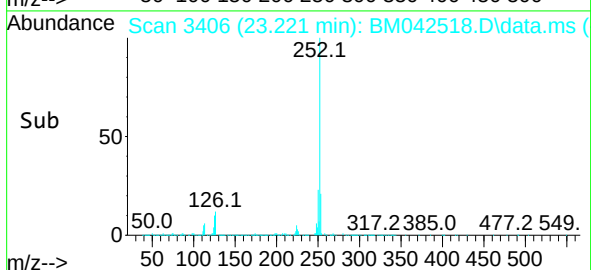
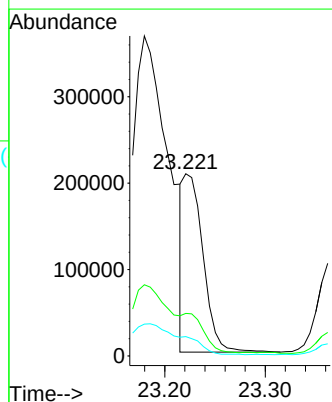
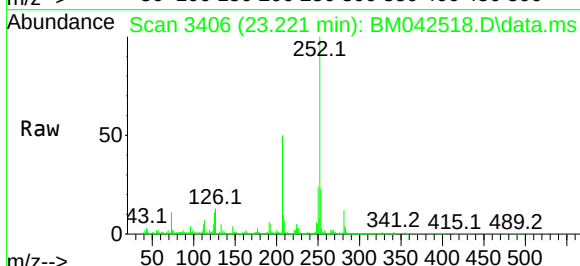
RT: 23.221 min Scan# 3406

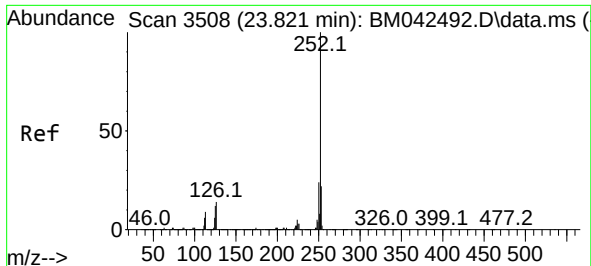
Delta R.T. -0.012 min

Lab File: BM042518.D

Acq: 31 Oct 2023 19:34

Tgt Ion:252 Resp: 279689
 Ion Ratio Lower Upper
 252 100
 253 23.3 17.6 26.4
 125 10.7 8.2 12.4





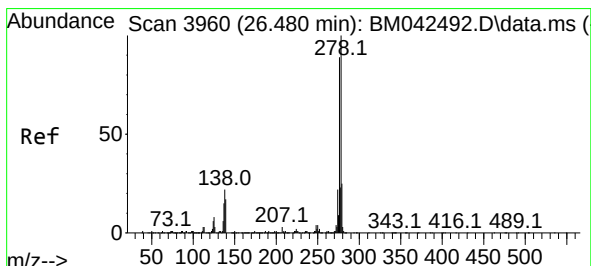
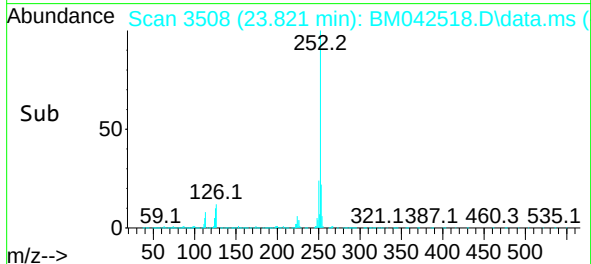
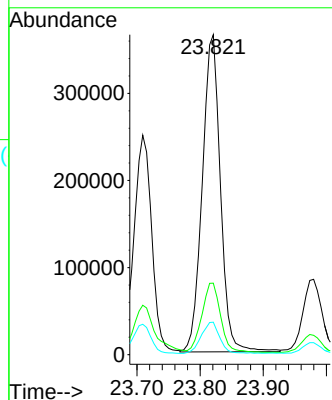
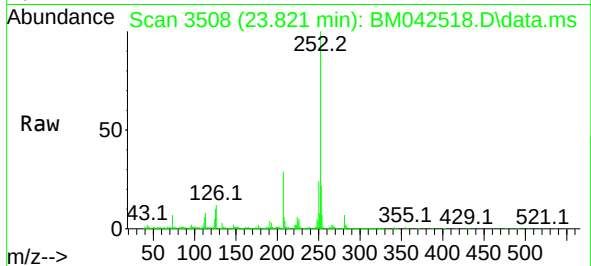
#90
Benzo(a)pyrene
Concen: 31.023 ng
RT: 23.821 min Scan# 31
Delta R.T. -0.000 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

Instrument :
BNA_M
ClientSampleId :
A-2(0-2)

Tgt Ion:252 Resp: 72812
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 10.2 9.4 14.2

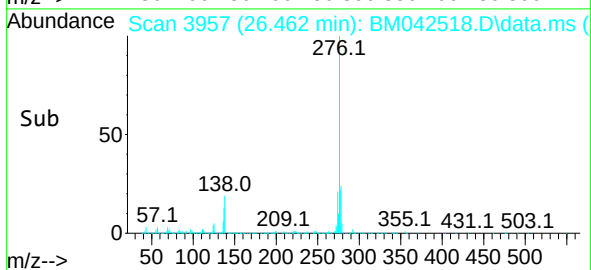
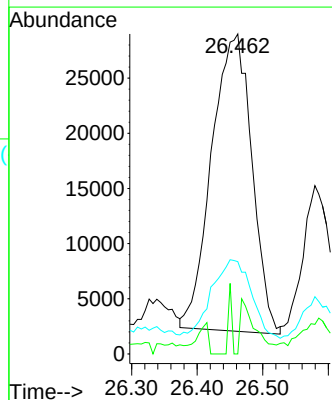
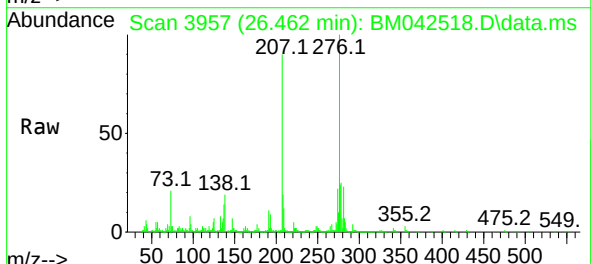
Manual Integrations
APPROVED

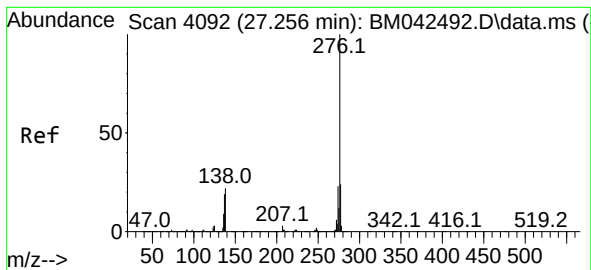
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#91
Dibenzo(a,h)anthracene
Concen: 8.589 ng
RT: 26.462 min Scan# 3957
Delta R.T. -0.018 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

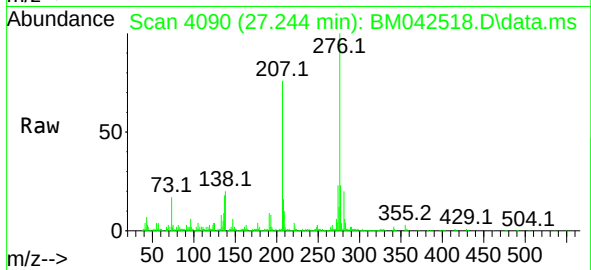
Tgt Ion:278 Resp: 114520
Ion Ratio Lower Upper
278 100
139 0.0 13.4 20.2#
279 28.8 19.7 29.5





#92
Benzo(g,h,i)perylene
Concen: 20.709 ng
RT: 27.244 min Scan# 4090
Delta R.T. -0.012 min
Lab File: BM042518.D
Acq: 31 Oct 2023 19:34

Instrument :
BNA_M
ClientSampleId :
A-2(0-2)



Tgt Ion:276 Resp: 464830
Ion Ratio Lower Upper
276 100
277 23.4 19.2 28.8
138 19.8 17.3 25.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

