

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM092324\
 Data File : BM047609.D
 Acq On : 23 Sep 2024 18:21
 Operator : RC/JU
 Sample : P4146-01 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CL-02-092024

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/25/2024
 Supervised By :mohammad ahmed 09/25/2024

Quant Time: Sep 23 18:59:18 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM092024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 21 02:22:39 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.839	152	438224	20.000	ng	0.00
21) Naphthalene-d8	10.633	136	1741204	20.000	ng	0.00
39) Acenaphthene-d10	14.468	164	917230	20.000	ng	0.00
64) Phenanthrene-d10	17.204	188	1638767	20.000	ng	0.00
76) Chrysene-d12	21.427	240	1393224	20.000	ng	-0.01
86) Perylene-d12	24.456	264	1522154	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	521729	18.245	ng	-0.01
7) Phenol-d6	6.998	99	672245	17.841	ng	0.00
23) Nitrobenzene-d5	8.986	82	390070	11.152	ng	-0.01
42) 2,4,6-Tribromophenol	15.951	330	127710	15.037	ng	0.00
45) 2-Fluorobiphenyl	13.092	172	737962	11.384	ng	-0.01
79) Terphenyl-d14	19.821	244	856100	11.025	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.245	178	1553750	17.467	ng	100
72) Anthracene	17.333	178	529439	6.282	ng	100
75) Fluoranthene	19.256	202	3684028	37.623	ng	100
78) Pyrene	19.615	202	2985216	30.613	ng	99
81) Benzo(a)anthracene	21.409	228	1679567	18.334	ng	99
83) Chrysene	21.474	228	1350017	15.496	ng	98
87) Indeno(1,2,3-cd)pyrene	27.868	276	863562	8.250	ng	96
88) Benzo(b)fluoranthene	23.503	252	1762645	18.425	ng	97
89) Benzo(k)fluoranthene	23.556	252	628641m	6.694	ng	
90) Benzo(a)pyrene	24.309	252	1295967	15.978	ng	99
91) Dibenzo(a,h)anthracene	27.915	278	232222	2.656	ng	93
92) Benzo(g,h,i)perylene	28.932	276	819591	9.354	ng	99

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

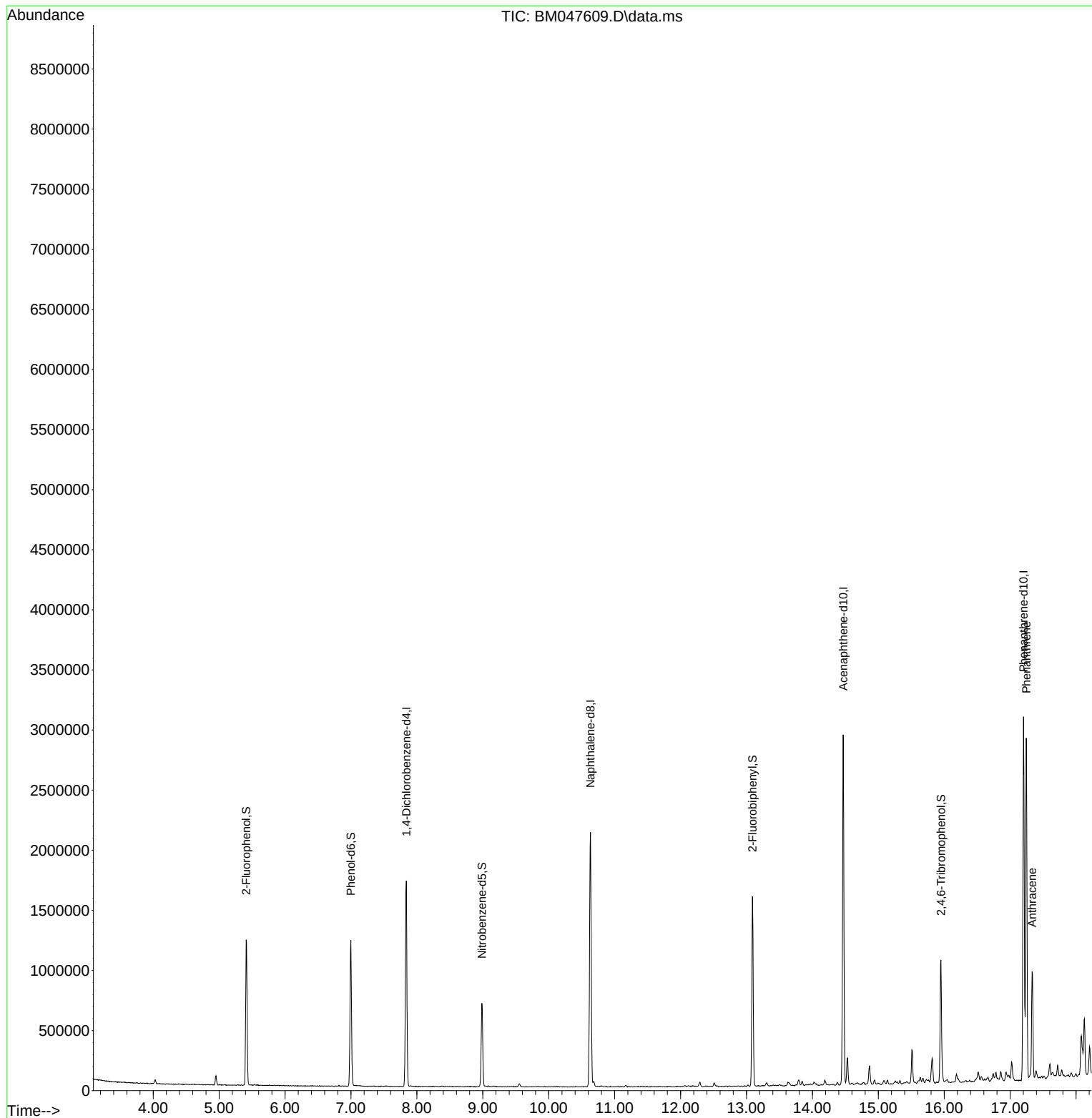
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM092324\
Data File : BM047609.D
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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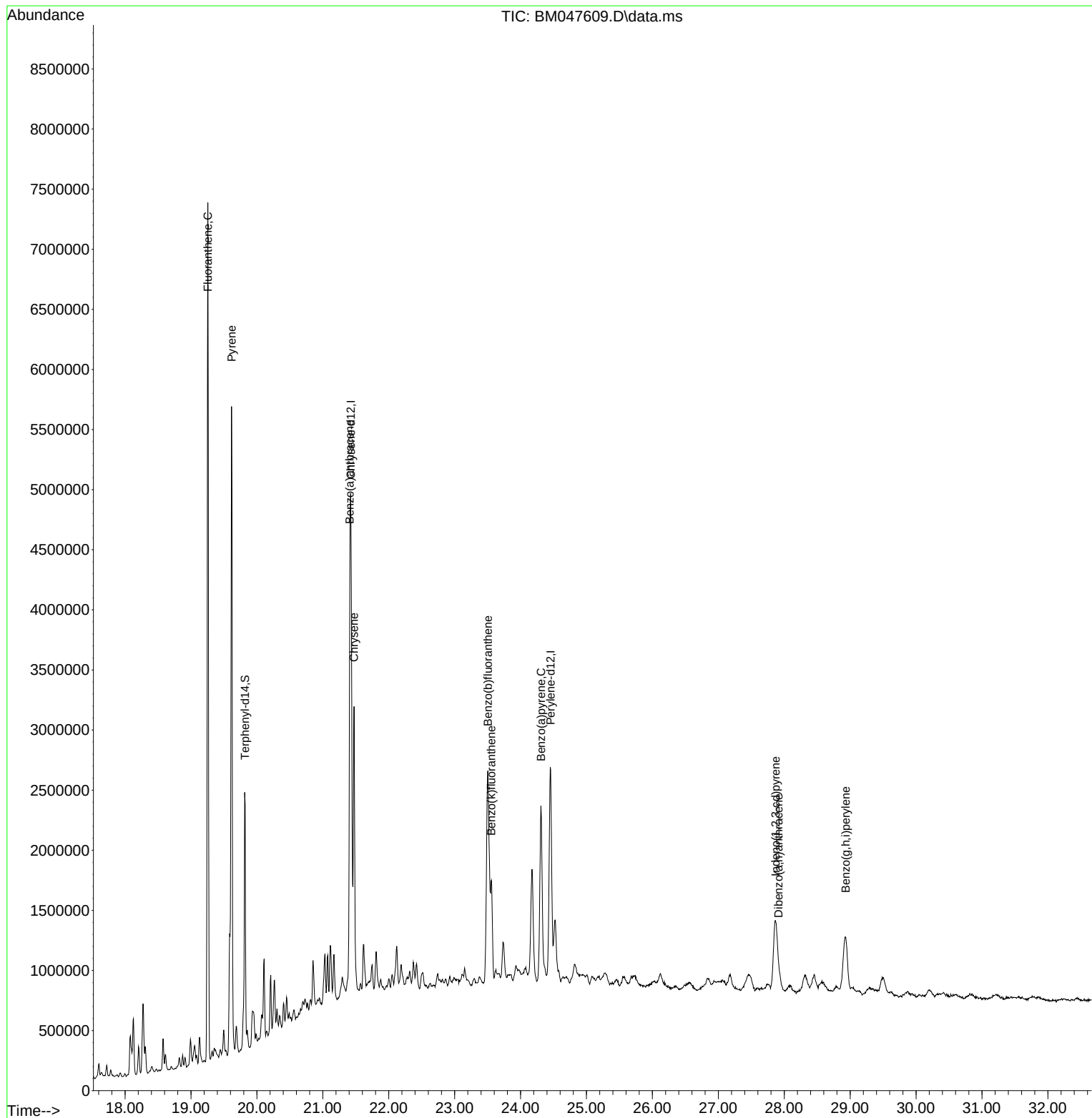
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Data File : BM047609.D
Acq On : 23 Sep 2024 18:21
Operator : RC/JU
Sample : P4146-01 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

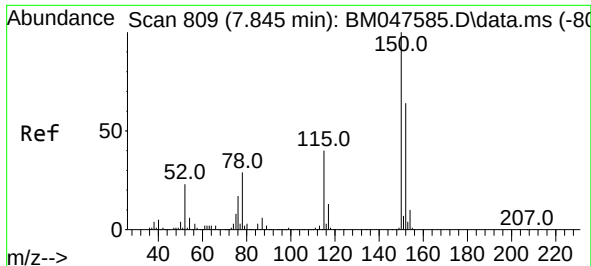
Instrument :
BNA_M
ClientSampleId :
CL-02-092024

Quant Time: Sep 23 18:59:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM092024.M
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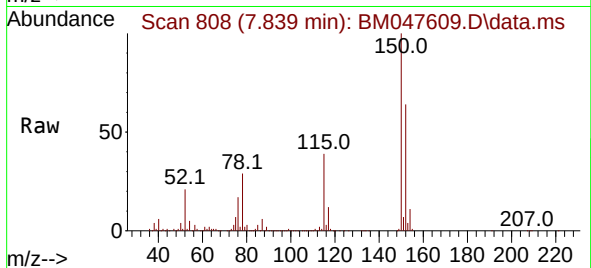
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.839 min Scan# 809
Delta R.T. -0.006 min
Lab File: BM047609.D
Acq: 23 Sep 2024 18:21

Instrument :

BNA_M

ClientSampleId :

CL-02-092024



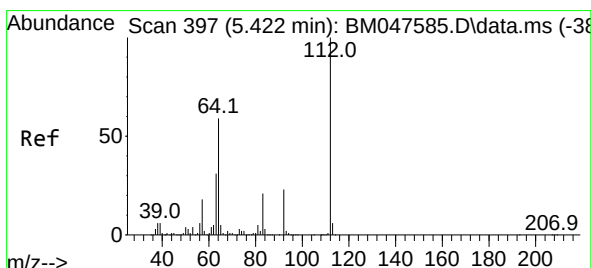
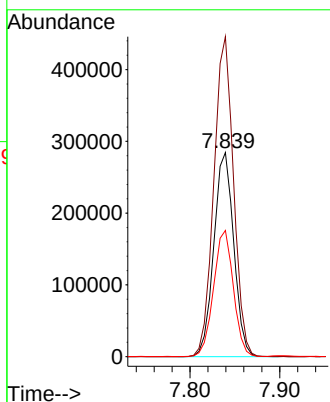
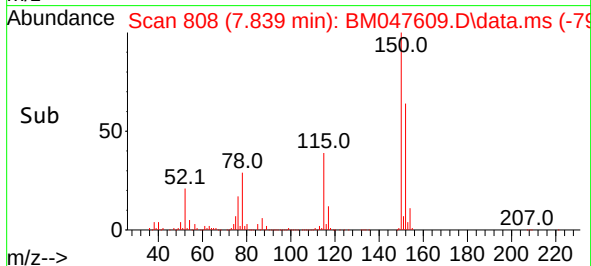
Tgt Ion:152 Resp: 438224
Ion Ratio Lower Upper
152 100
150 156.7 124.5 186.7
115 61.8 49.9 74.9

Manual Integrations

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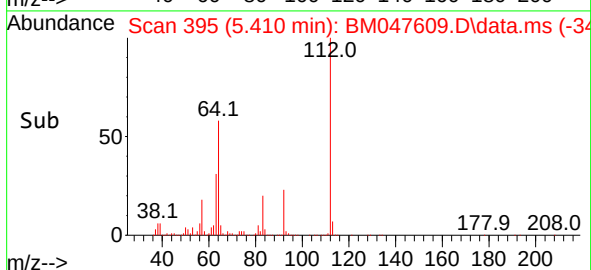
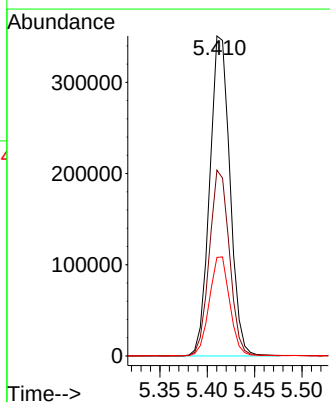
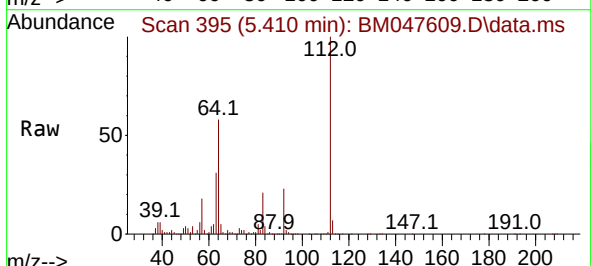
Reviewed By :Yogesh Patel 09/25/2024

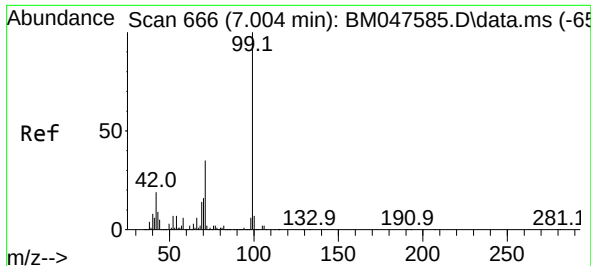
Supervised By :mohammad ahmed 09/25/2024



#5
2-Fluorophenol
Concen: 18.245 ng
RT: 5.410 min Scan# 395
Delta R.T. -0.012 min
Lab File: BM047609.D
Acq: 23 Sep 2024 18:21

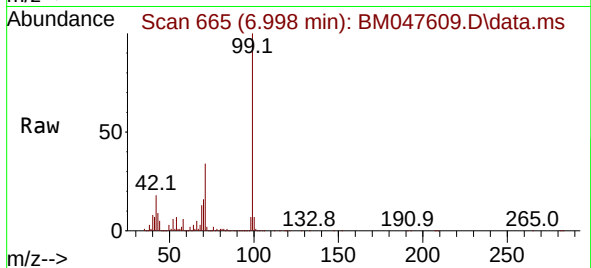
Tgt Ion:112 Resp: 521729
Ion Ratio Lower Upper
112 100
64 58.1 46.8 70.2
63 30.8 25.2 37.8





#7
Phenol-d6
Concen: 17.841 ng
RT: 6.998 min Scan# 60
Delta R.T. -0.006 min
Lab File: BM047609.D
Acq: 23 Sep 2024 18:21

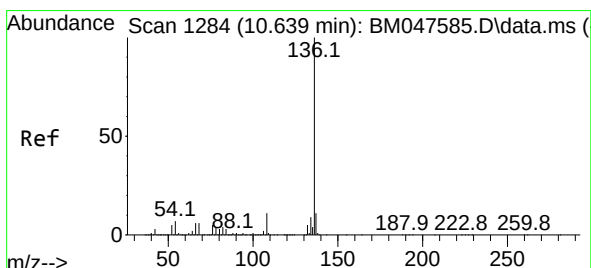
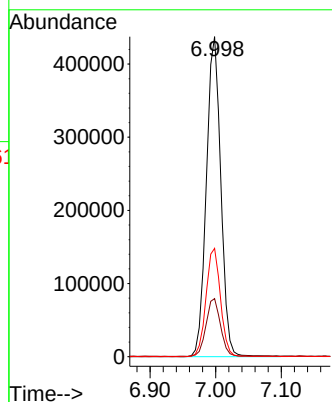
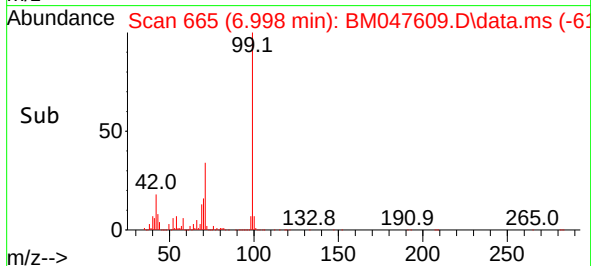
Instrument :
BNA_M
ClientSampleId :
CL-02-092024



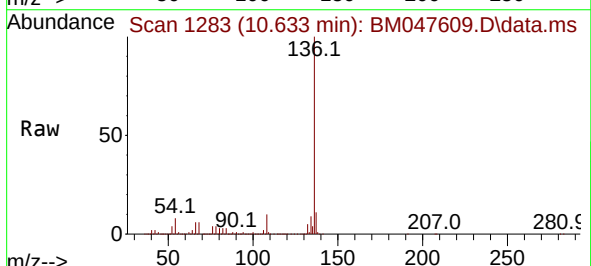
Tgt Ion: 99 Resp: 672245
Ion Ratio Lower Upper
99 100
42 18.1 15.3 22.9
71 33.9 27.8 41.6

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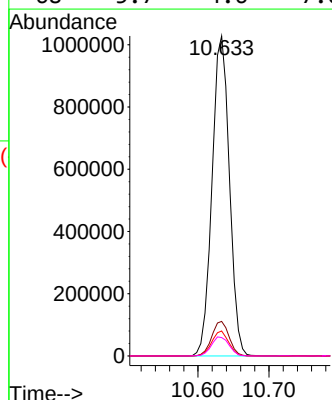
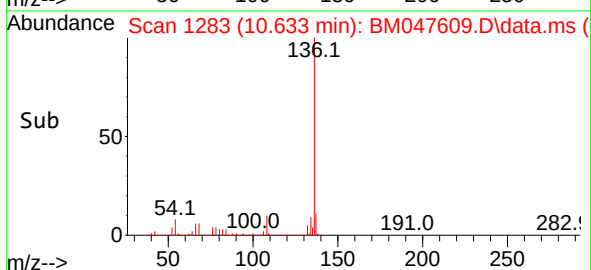
Reviewed By :Yogesh Patel 09/25/2024
Supervised By :mohammad ahmed 09/25/2024

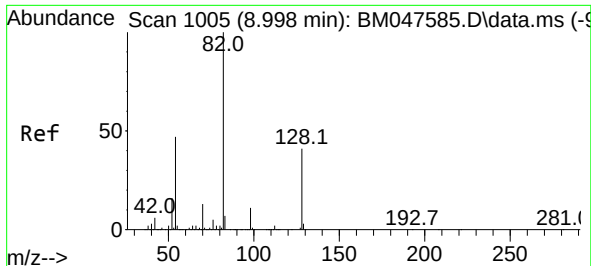


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.633 min Scan# 1283
Delta R.T. -0.006 min
Lab File: BM047609.D
Acq: 23 Sep 2024 18:21



Tgt Ion:136 Resp: 1741204
Ion Ratio Lower Upper
136 100
137 10.8 9.0 13.4
54 7.8 6.0 9.0
68 5.7 4.6 7.0





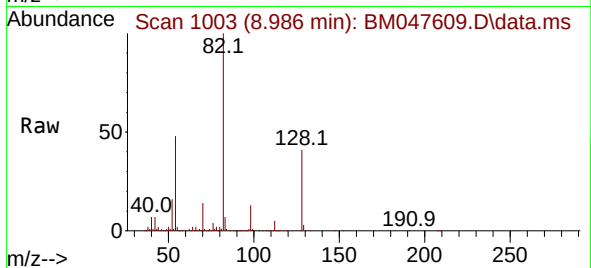
#23
Nitrobenzene-d5
Concen: 11.152 ng
RT: 8.986 min Scan# 1003
Delta R.T. -0.012 min
Lab File: BM047609.D
Acq: 23 Sep 2024 18:21

Instrument :

BNA_M

ClientSampleId :

CL-02-092024



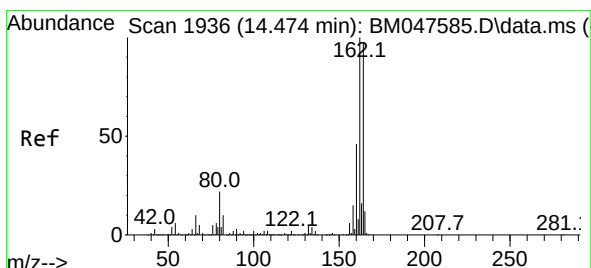
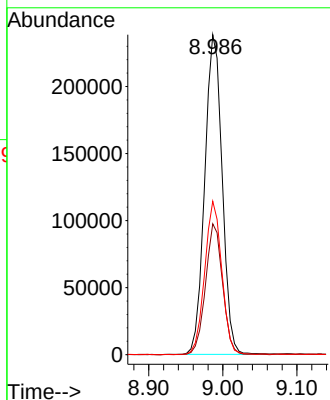
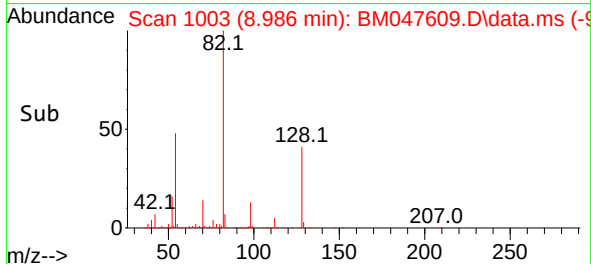
Tgt Ion: 82 Resp: 390070
Ion Ratio Lower Upper
82 100
128 40.9 32.5 48.7
54 47.9 37.5 56.3

Manual Integrations

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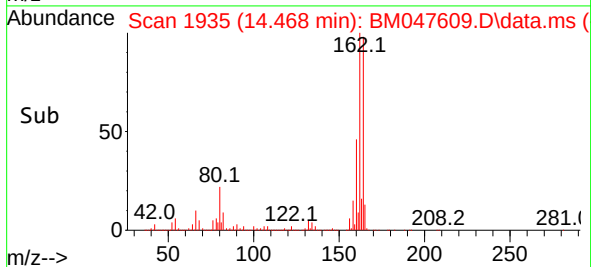
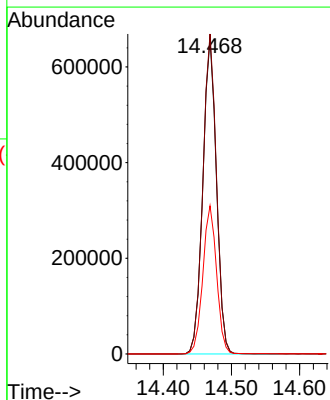
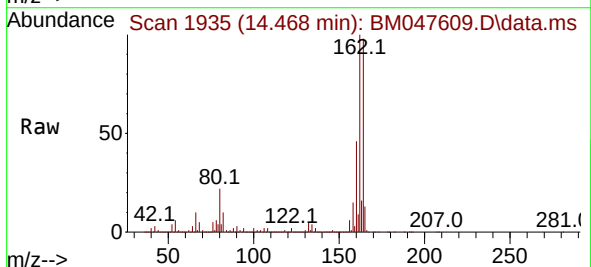
Reviewed By :Yogesh Patel 09/25/2024

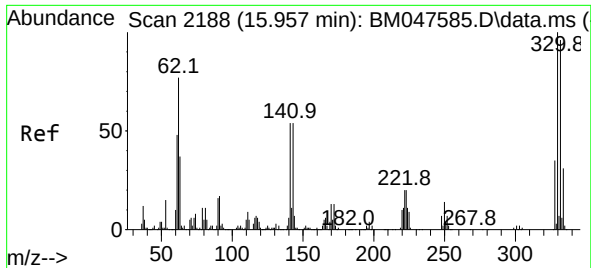
Supervised By :mohammad ahmed 09/25/2024



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.468 min Scan# 1935
Delta R.T. -0.006 min
Lab File: BM047609.D
Acq: 23 Sep 2024 18:21

Tgt Ion:164 Resp: 917230
Ion Ratio Lower Upper
164 100
162 101.6 82.6 123.8
160 47.1 37.8 56.6





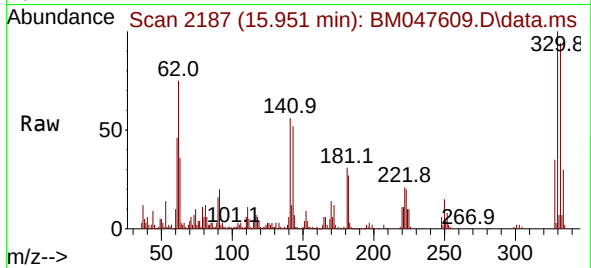
#42
2,4,6-Tribromophenol
Concen: 15.037 ng
RT: 15.951 min Scan# 2187
Delta R.T. -0.006 min
Lab File: BM047609.D
Acq: 23 Sep 2024 18:21

Instrument :

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ClientSampleId :

CL-02-092024



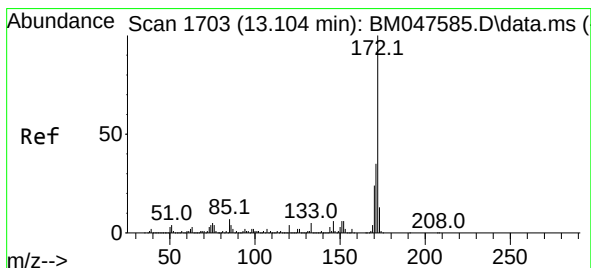
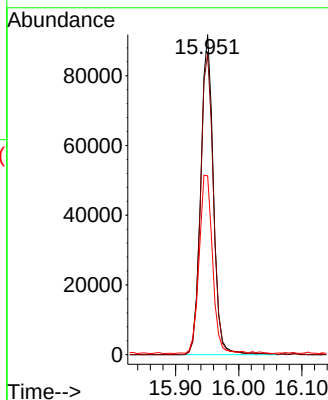
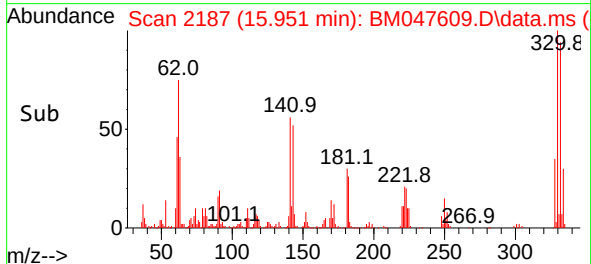
Tgt Ion:330 Resp: 127710
Ion Ratio Lower Upper
330 100
332 95.4 77.0 115.4
141 58.5 45.9 68.9

Manual Integrations

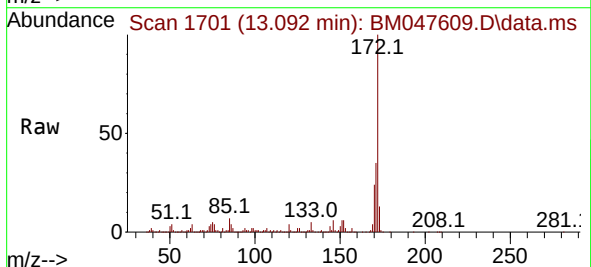
APPROVED

Reviewed By :Yogesh Patel 09/25/2024

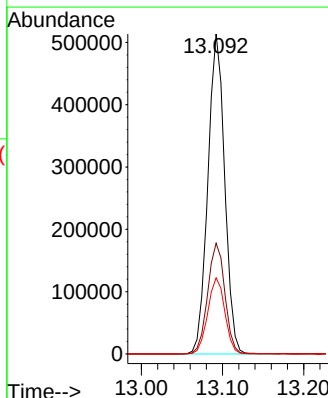
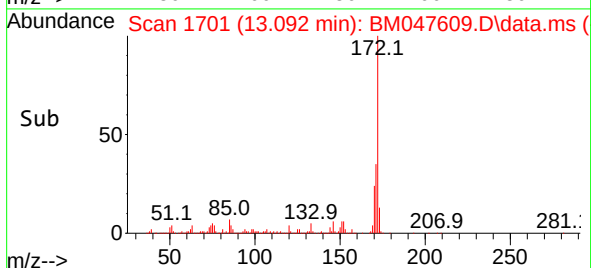
Supervised By :mohammad ahmed 09/25/2024

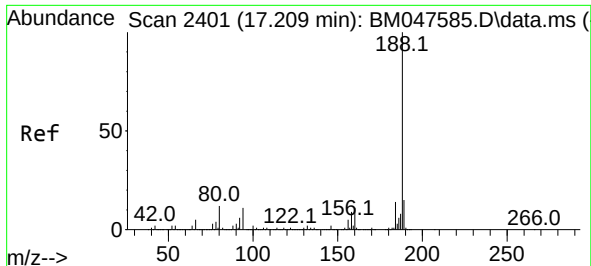


#45
2-Fluorobiphenyl
Concen: 11.384 ng
RT: 13.092 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BM047609.D
Acq: 23 Sep 2024 18:21



Tgt Ion:172 Resp: 737962
Ion Ratio Lower Upper
172 100
171 34.6 28.1 42.1
170 23.8 19.0 28.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.204 min Scan# 2400
Delta R.T. -0.005 min
Lab File: BM047609.D
Acq: 23 Sep 2024 18:21

Instrument :

BNA_M

ClientSampleId :

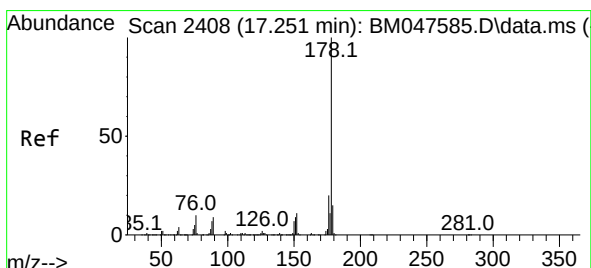
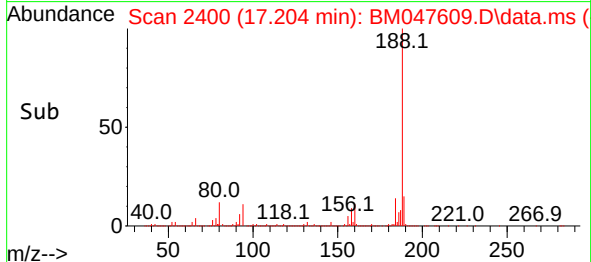
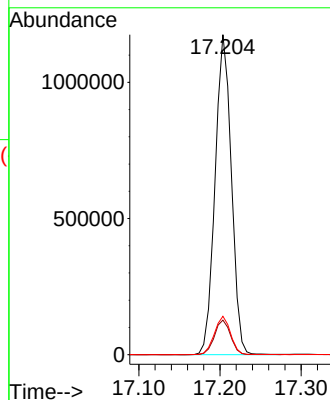
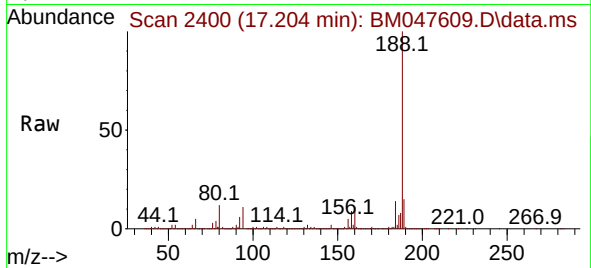
CL-02-092024

Tgt Ion:188 Resp: 163876
Ion Ratio Lower Upper
188 100
94 10.8 8.6 13.0
80 12.0 9.9 14.9

Manual Integrations

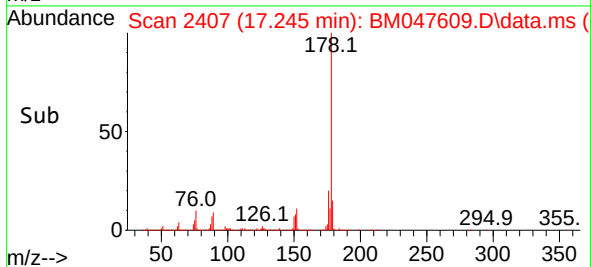
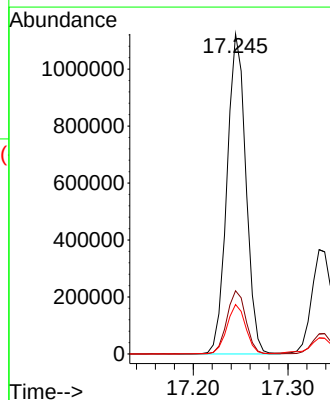
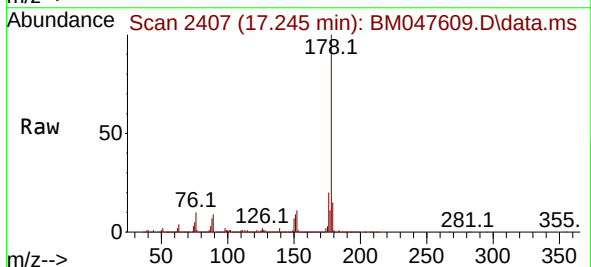
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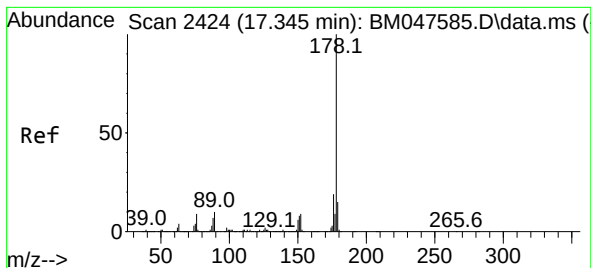
Reviewed By :Yogesh Patel 09/25/2024
Supervised By :mohammad ahmed 09/25/2024



#71
Phenanthrene
Concen: 17.467 ng
RT: 17.245 min Scan# 2407
Delta R.T. -0.006 min
Lab File: BM047609.D
Acq: 23 Sep 2024 18:21

Tgt Ion:178 Resp: 1553750
Ion Ratio Lower Upper
178 100
176 19.7 15.8 23.8
179 15.4 12.2 18.2





#72

Anthracene

Concen: 6.282 ng

RT: 17.333 min Scan# 2424

Delta R.T. -0.012 min

Lab File: BM047609.D

Acq: 23 Sep 2024 18:21

Instrument :

BNA_M

ClientSampleId :

CL-02-092024

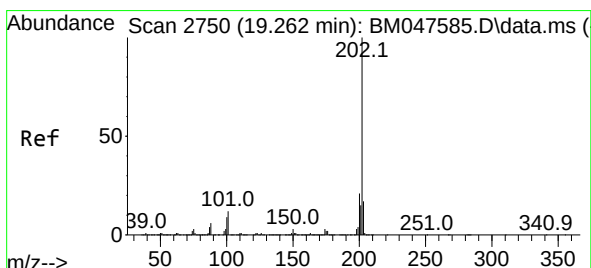
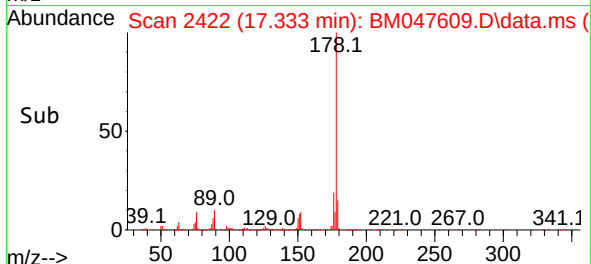
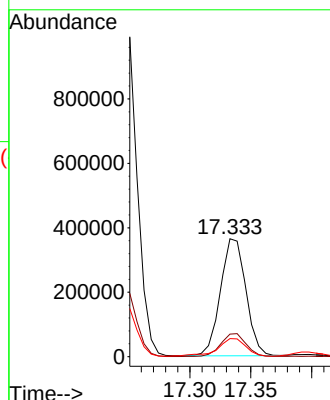
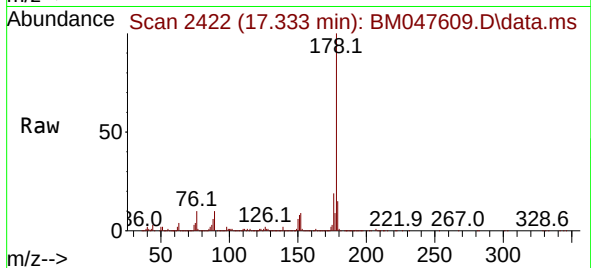
Tgt Ion:178 Resp: 529439
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.4 23.2
 179 15.3 12.2 18.2

Manual Integrations

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#75

Fluoranthene

Concen: 37.623 ng

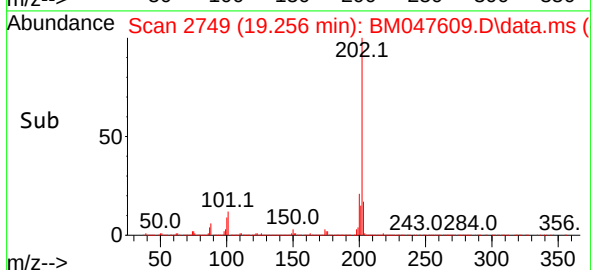
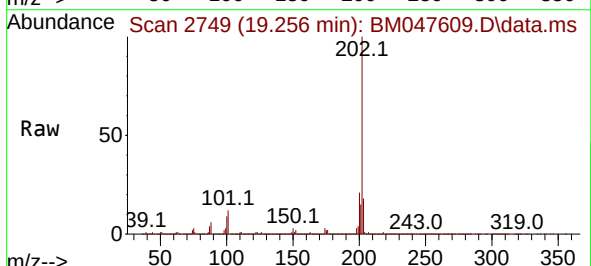
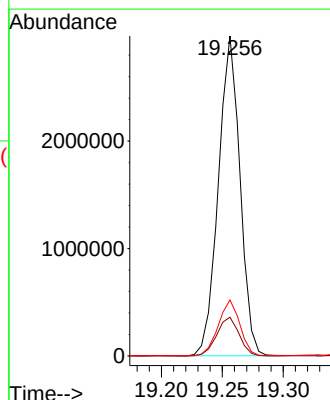
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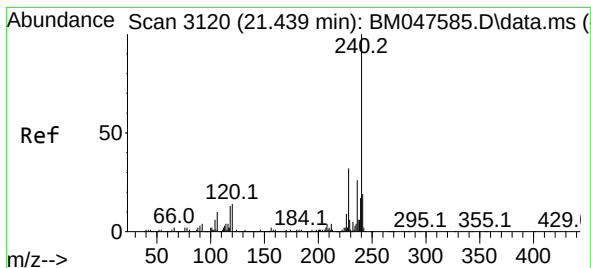
Delta R.T. -0.006 min

Lab File: BM047609.D

Acq: 23 Sep 2024 18:21

Tgt Ion:202 Resp: 3684028
 Ion Ratio Lower Upper
 202 100
 101 12.1 0.0 32.2
 203 17.5 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.427 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM047609.D

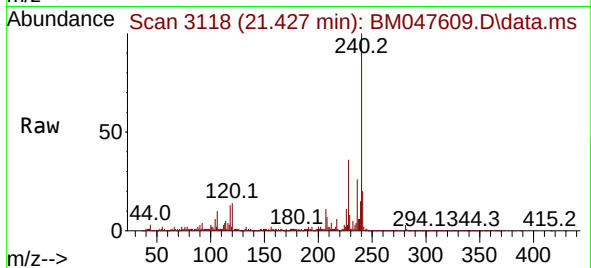
Acq: 23 Sep 2024 18:21

Instrument :

BNA_M

ClientSampleId :

CL-02-092024



Tgt Ion:240 Resp: 1393224

Ion Ratio Lower Upper

240 100

120 14.1 10.8 16.2

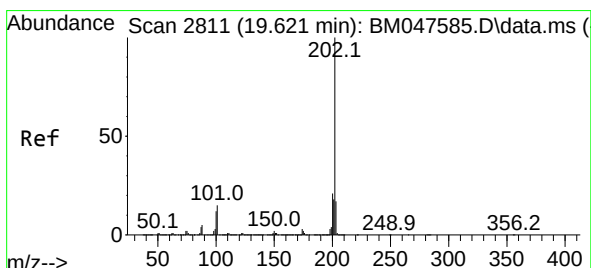
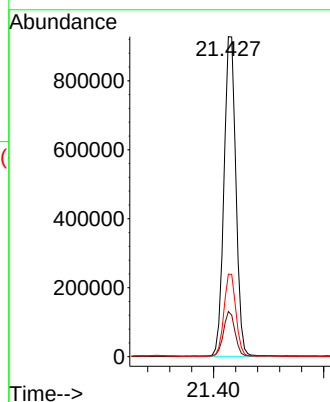
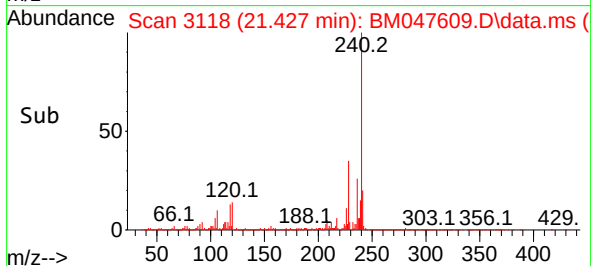
236 25.8 20.8 31.2

Manual Integrations

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Reviewed By :Yogesh Patel 09/25/2024

Supervised By :mohammad ahmed 09/25/2024



#78

Pyrene

Concen: 30.613 ng

RT: 19.615 min Scan# 2810

Delta R.T. -0.006 min

Lab File: BM047609.D

Acq: 23 Sep 2024 18:21

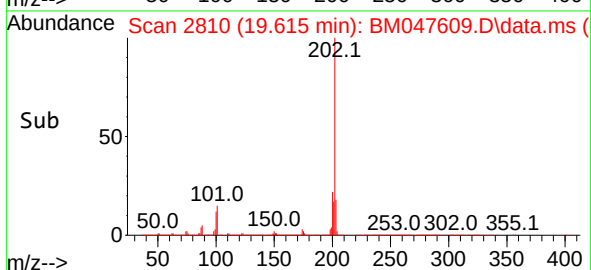
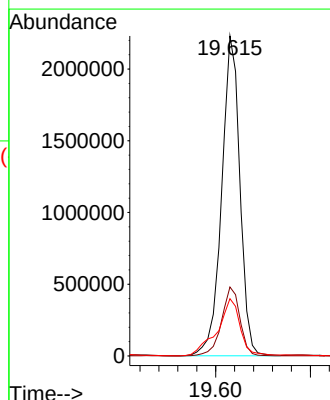
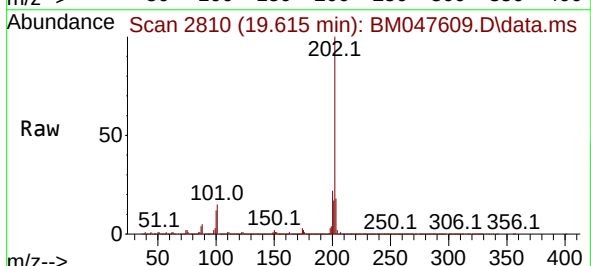
Tgt Ion:202 Resp: 2985216

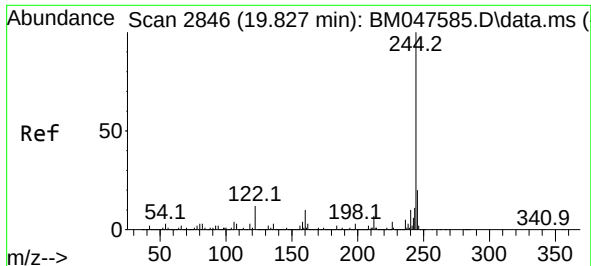
Ion Ratio Lower Upper

202 100

200 21.6 17.2 25.8

203 17.9 13.8 20.8





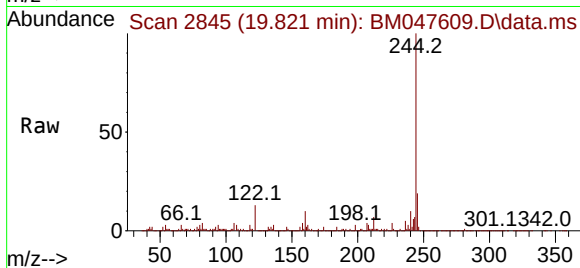
#79
 Terphenyl-d14
 Concen: 11.025 ng
 RT: 19.821 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM047609.D
 Acq: 23 Sep 2024 18:21

Instrument :

BNA_M

ClientSampleId :

CL-02-092024

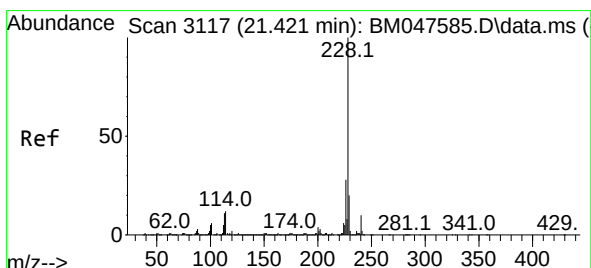
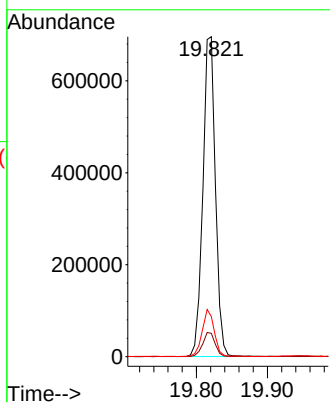
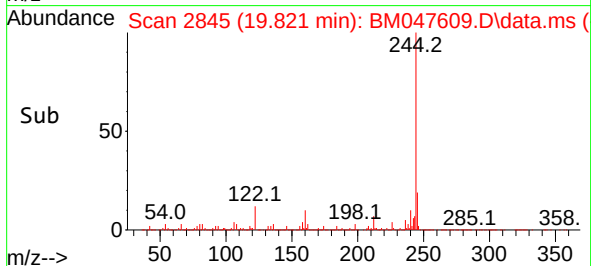


Tgt Ion:244 Resp: 856100
 Ion Ratio Lower Upper
 244 100
 212 7.3 6.0 9.0
 122 12.5 10.0 15.0

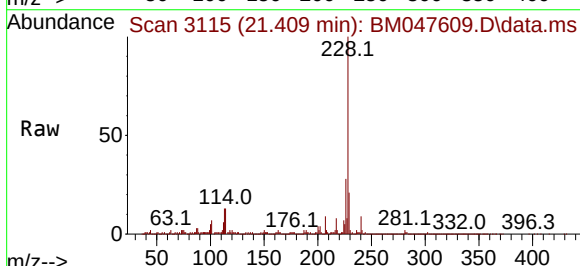
Manual Integrations

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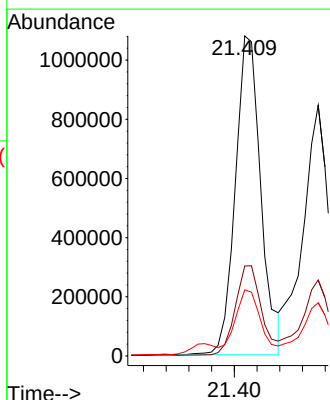
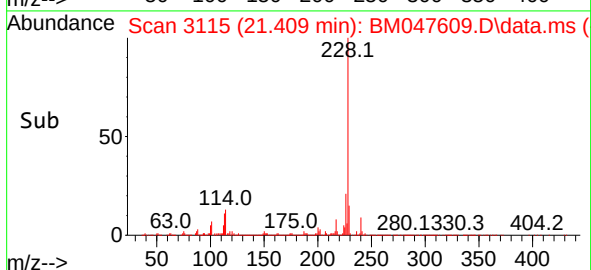
Reviewed By :Yogesh Patel 09/25/2024
 Supervised By :mohammad ahmed 09/25/2024

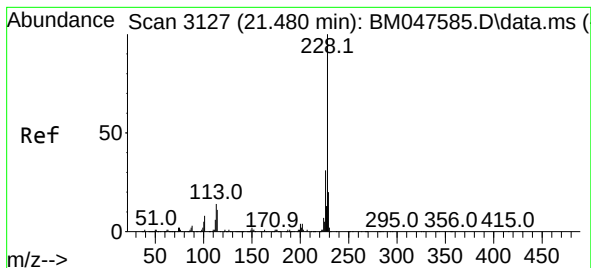


#81
 Benzo(a)anthracene
 Concen: 18.334 ng
 RT: 21.409 min Scan# 3115
 Delta R.T. -0.012 min
 Lab File: BM047609.D
 Acq: 23 Sep 2024 18:21



Tgt Ion:228 Resp: 1679567
 Ion Ratio Lower Upper
 228 100
 226 28.1 22.4 33.6
 229 20.6 16.0 24.0





#83

Chrysene

Concen: 15.496 ng

RT: 21.474 min Scan# 3127

Delta R.T. -0.006 min

Lab File: BM047609.D

Acq: 23 Sep 2024 18:21

Instrument :

BNA_M

ClientSampleId :

CL-02-092024

Tgt Ion:228 Resp: 135001

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

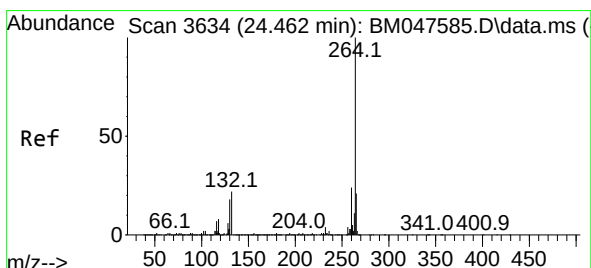
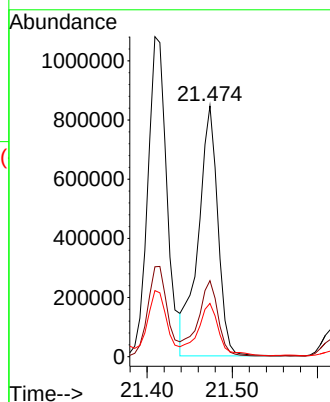
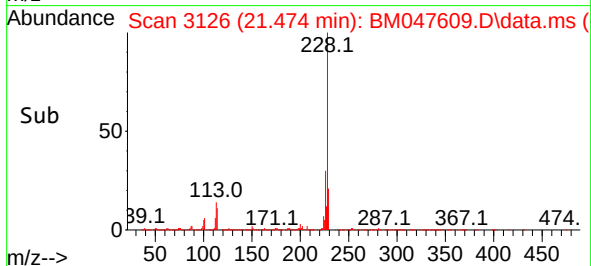
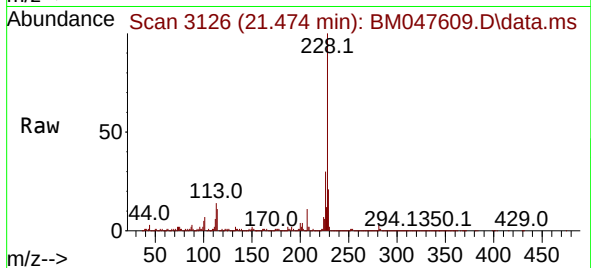
229 21.2 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/25/2024

Supervised By :mohammad ahmed 09/25/2024



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.456 min Scan# 3633

Delta R.T. -0.006 min

Lab File: BM047609.D

Acq: 23 Sep 2024 18:21

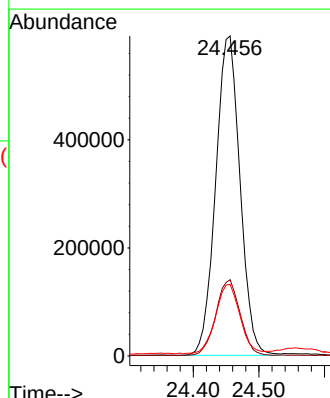
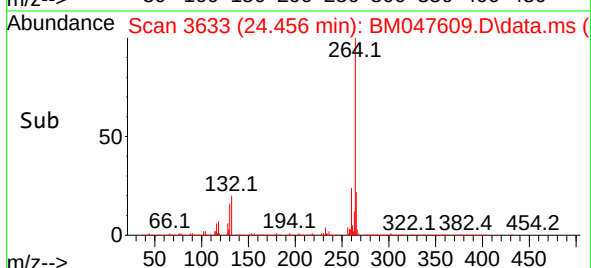
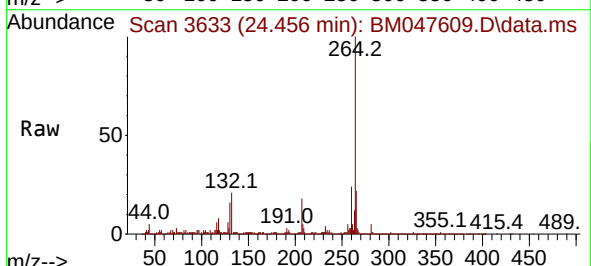
Tgt Ion:264 Resp: 1522154

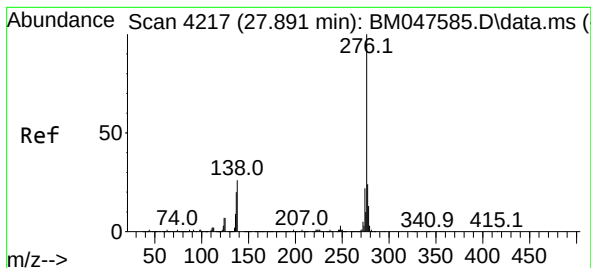
Ion Ratio Lower Upper

264 100

260 23.8 18.9 28.3

265 22.4 17.0 25.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.250 ng

RT: 27.868 min Scan# 41

Delta R.T. -0.024 min

Lab File: BM047609.D

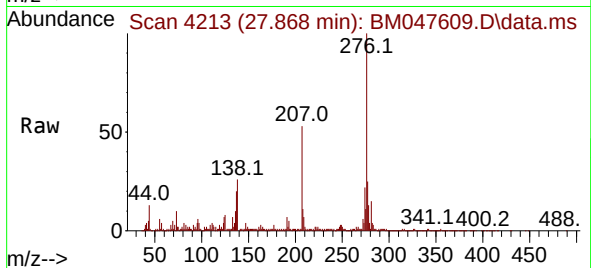
Acq: 23 Sep 2024 18:21

Instrument :

BNA_M

ClientSampleId :

CL-02-092024



Tgt Ion:276 Resp: 86356

Ion Ratio Lower Upper

276 100

138 26.9 18.1 27.1

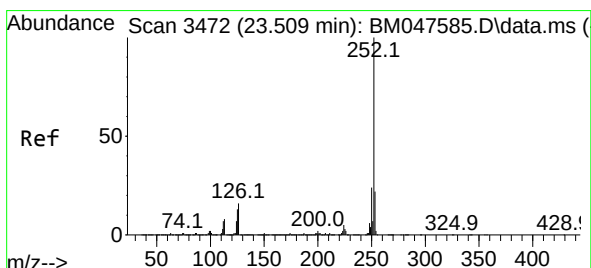
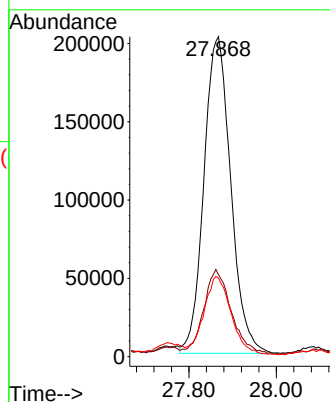
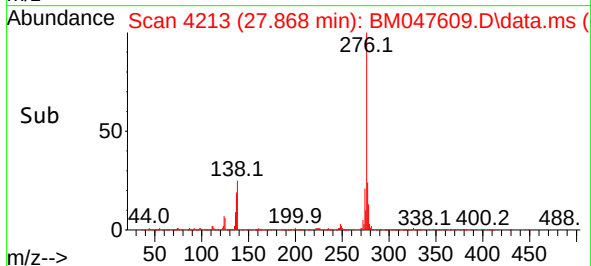
277 25.0 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/25/2024

Supervised By :mohammad ahmed 09/25/2024



#88

Benzo(b)fluoranthene

Concen: 18.425 ng

RT: 23.503 min Scan# 3471

Delta R.T. -0.006 min

Lab File: BM047609.D

Acq: 23 Sep 2024 18:21

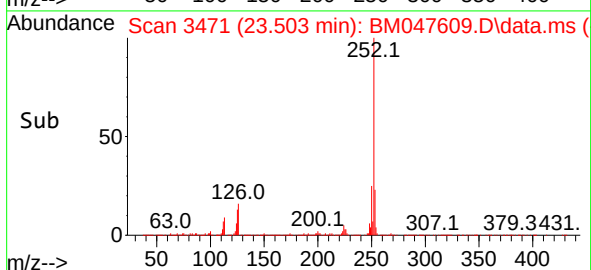
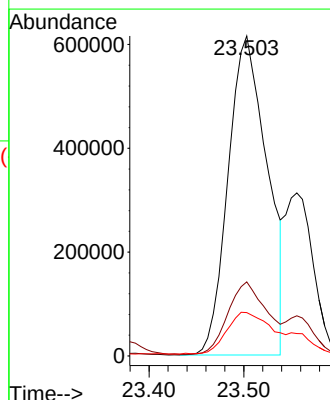
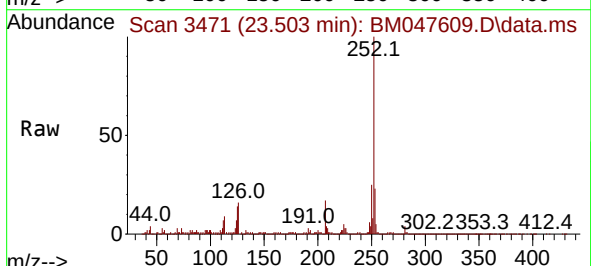
Tgt Ion:252 Resp: 1762645

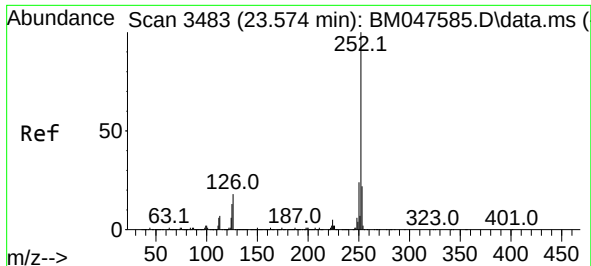
Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.0

125 13.6 10.2 15.2





#89
Benzo(k)fluoranthene
Concen: 6.694 ng m
RT: 23.556 min Scan# 34
Delta R.T. -0.018 min
Lab File: BM047609.D
Acq: 23 Sep 2024 18:21

Instrument :

BNA_M

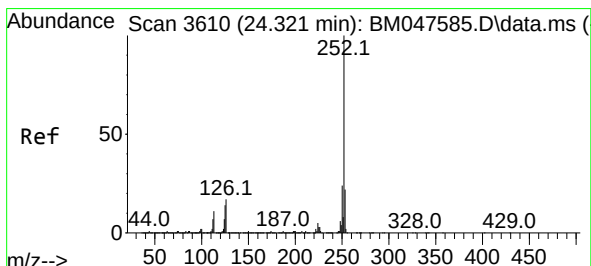
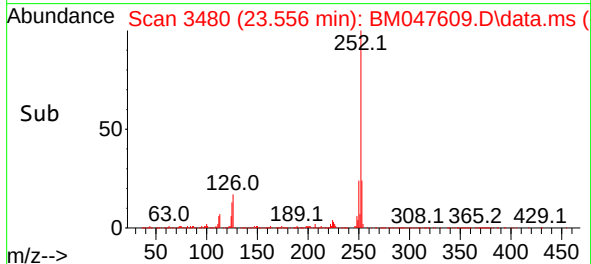
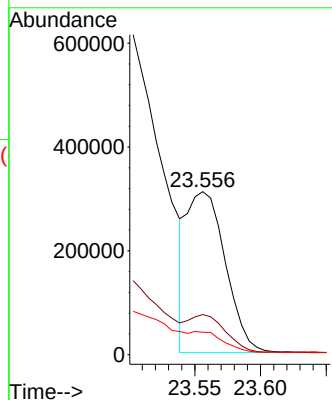
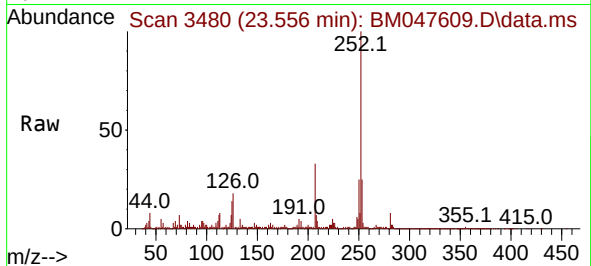
ClientSampleId :

CL-02-092024

Tgt Ion:252 Resp: 62864
Ion Ratio Lower Upper
252 100
253 24.6 17.6 26.4
125 13.8 10.2 15.4

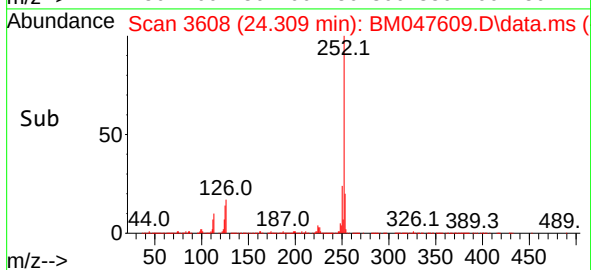
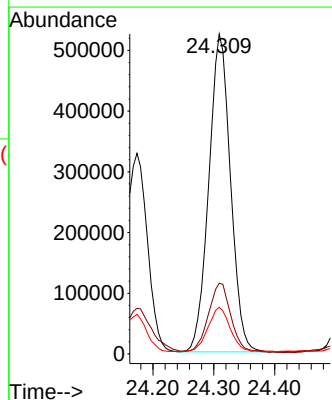
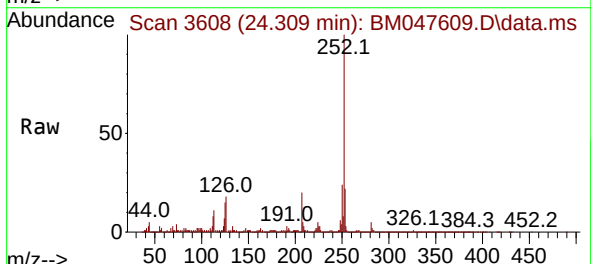
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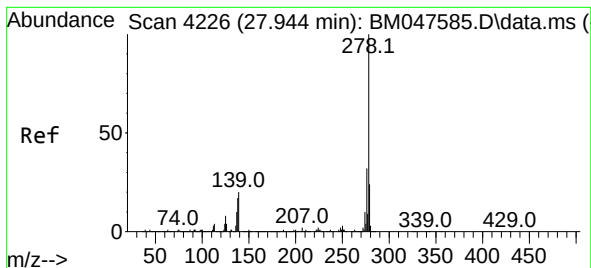
Reviewed By :Yogesh Patel 09/25/2024
Supervised By :mohammad ahmed 09/25/2024



#90
Benzo(a)pyrene
Concen: 15.978 ng
RT: 24.309 min Scan# 3608
Delta R.T. -0.012 min
Lab File: BM047609.D
Acq: 23 Sep 2024 18:21

Tgt Ion:252 Resp: 1295967
Ion Ratio Lower Upper
252 100
253 22.1 17.4 26.0
125 14.6 11.5 17.3





#91

Dibenzo(a,h)anthracene

Concen: 2.656 ng

RT: 27.915 min Scan# 41

Delta R.T. -0.029 min

Lab File: BM047609.D

Acq: 23 Sep 2024 18:21

Instrument :

BNA_M

ClientSampleId :

CL-02-092024

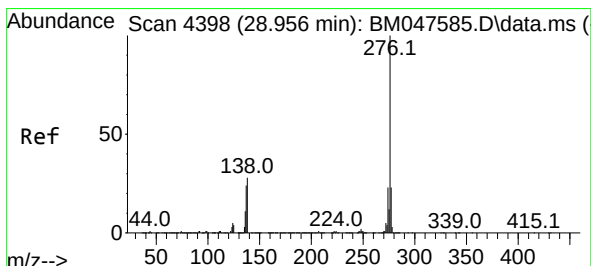
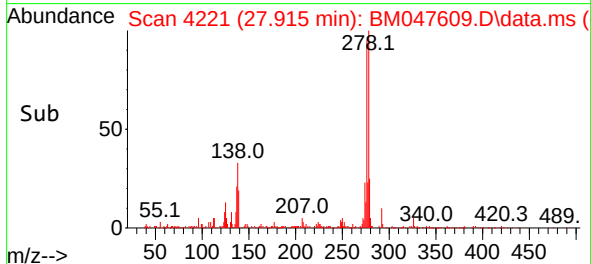
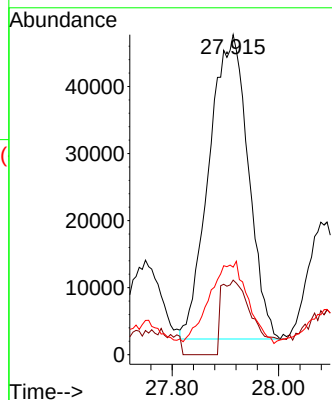
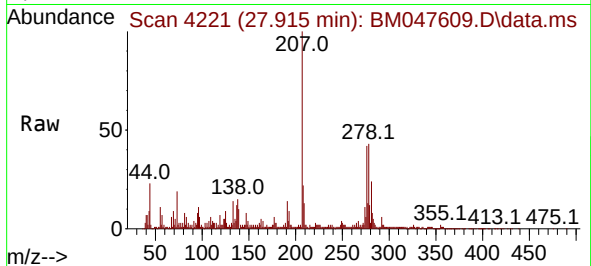
Tgt Ion:278 Resp: 23222
 Ion Ratio Lower Upper
 278 100
 139 23.3 16.4 24.6
 279 27.4 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/25/2024

Supervised By :mohammad ahmed 09/25/2024



#92

Benzo(g,h,i)perylene

Concen: 9.354 ng

RT: 28.932 min Scan# 4394

Delta R.T. -0.024 min

Lab File: BM047609.D

Acq: 23 Sep 2024 18:21

Tgt Ion:276 Resp: 819591
 Ion Ratio Lower Upper
 276 100
 277 22.9 18.3 27.5
 138 26.6 22.3 33.5

