

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040425\
 Data File : BM049828.D
 Acq On : 04 Apr 2025 17:58
 Operator : RC/JU
 Sample : Q1712-05 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 TT-7

Quant Time: Apr 04 22:55:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 13 14:55:34 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/07/2025
 Supervised By :Jagrut Upadhyay 04/07/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.787	152	329829	20.000	ng	-0.02
21) Naphthalene-d8	10.581	136	1210782	20.000	ng	-0.02
39) Acenaphthene-d10	14.428	164	817769	20.000	ng	-0.02
64) Phenanthrene-d10	17.174	188	1594067	20.000	ng	-0.01
76) Chrysene-d12	21.409	240	1504122	20.000	ng	-0.02
86) Perylene-d12	24.421	264	1738331	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	301651	15.432	ng	-0.02
7) Phenol-d6	6.957	99	393290	16.032	ng	-0.02
23) Nitrobenzene-d5	8.940	82	230446	9.772	ng	-0.02
42) 2,4,6-Tribromophenol	15.916	330	148448	15.546	ng	-0.02
45) 2-Fluorobiphenyl	13.051	172	635861	9.738	ng	-0.02
79) Terphenyl-d14	19.792	244	855997	9.590	ng	-0.02
Target Compounds						Qvalue
71) Phenanthrene	17.216	178	736692	8.323	ng	99
75) Fluoranthene	19.227	202	1415576	13.891	ng	99
78) Pyrene	19.592	202	1420925	13.521	ng	99
81) Benzo(a)anthracene	21.392	228	769537	7.660	ng	95
83) Chrysene	21.451	228	744508	7.818	ng	97
87) Indeno(1,2,3-cd)pyrene	27.809	276	549268	4.390	ng	98
88) Benzo(b)fluoranthene	23.468	252	1018269	8.697	ng	# 94
89) Benzo(k)fluoranthene	23.527	252	336629m	2.922	ng	
90) Benzo(a)pyrene	24.274	252	784416	7.976	ng	# 93
92) Benzo(g,h,i)perylene	28.868	276	555747	5.293	ng	95

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

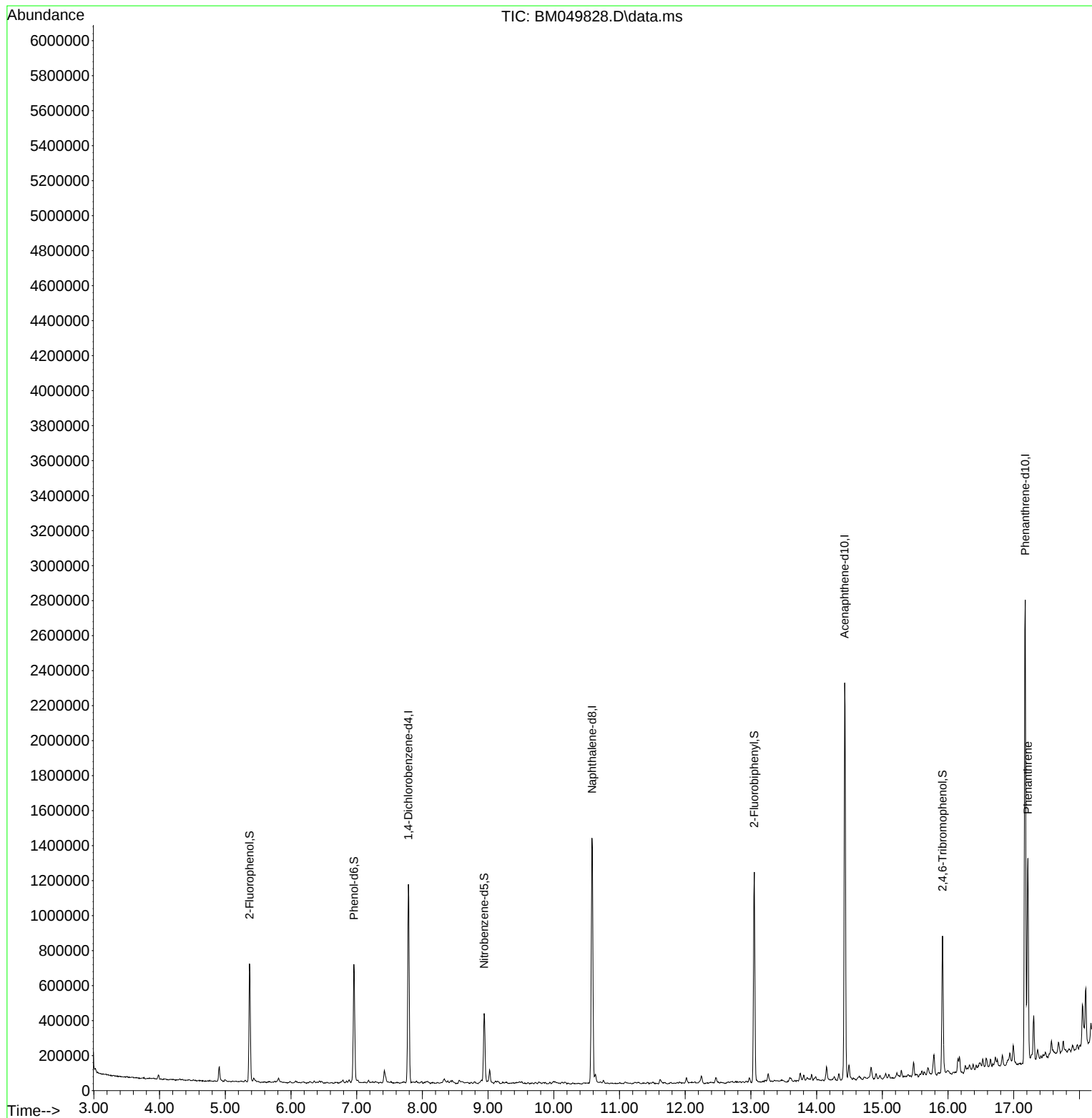
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040425\
Data File : BM049828.D
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Instrument :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
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QLast Update : Thu Mar 13 14:55:34 2025
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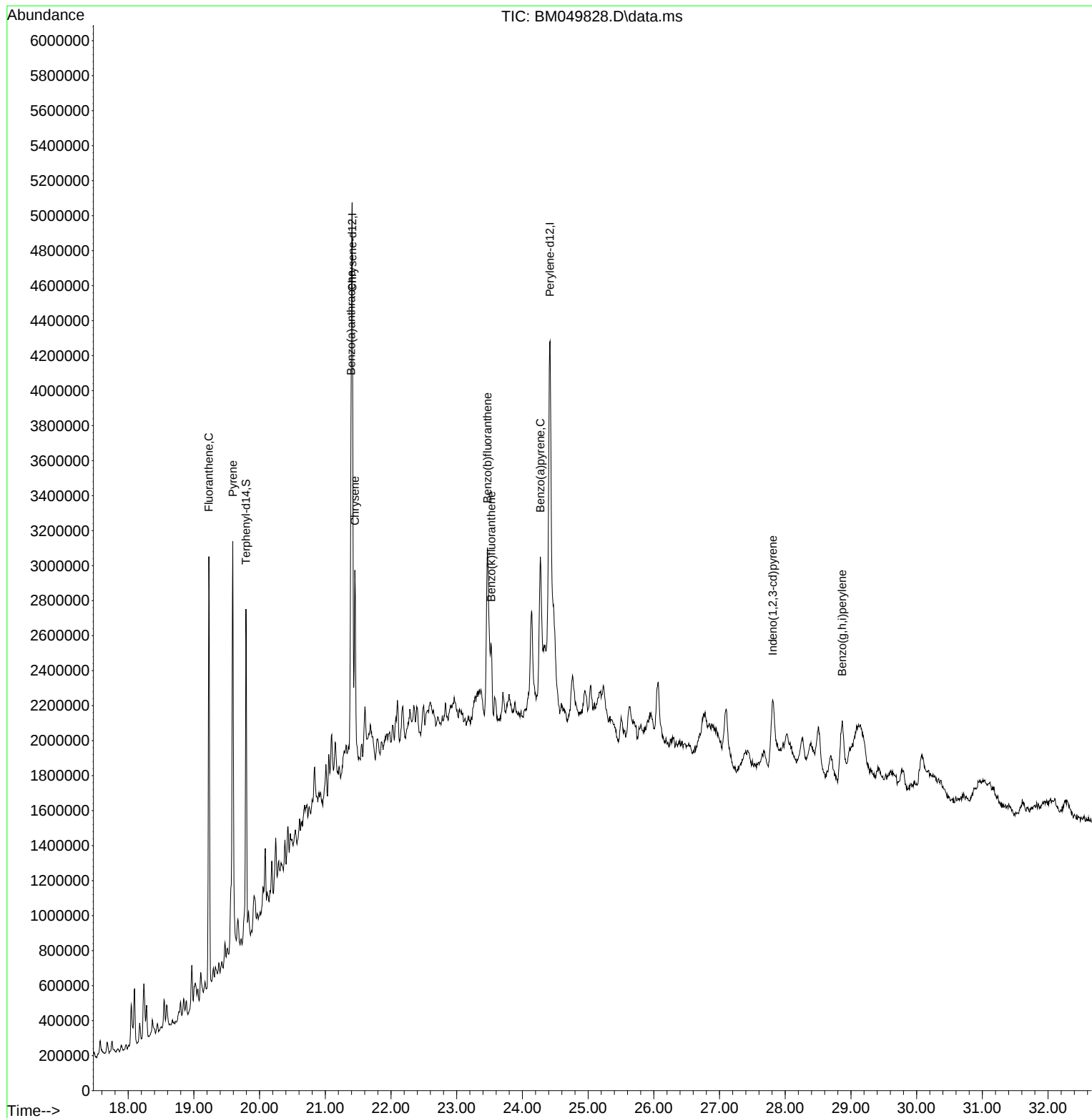
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Data File : BM049828.D
Acq On : 04 Apr 2025 17:58
Operator : RC/JU
Sample : Q1712-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

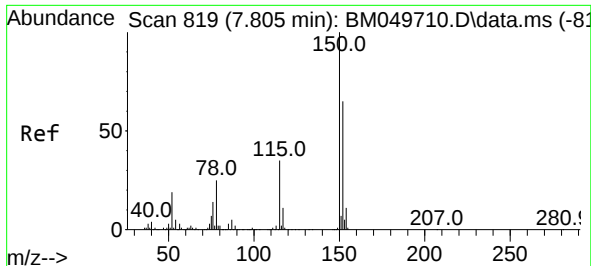
Instrument :
BNA_M
ClientSampleId :
TT-7

Quant Time: Apr 04 22:55:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 13 14:55:34 2025
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Manual Integrations
APPROVED

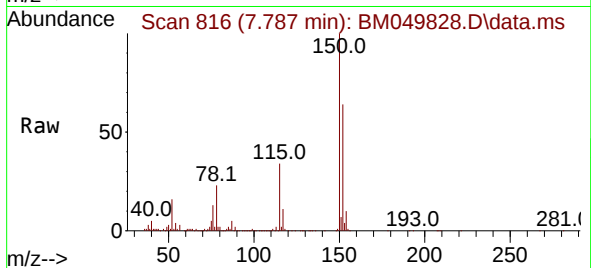
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 81
Delta R.T. -0.018 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

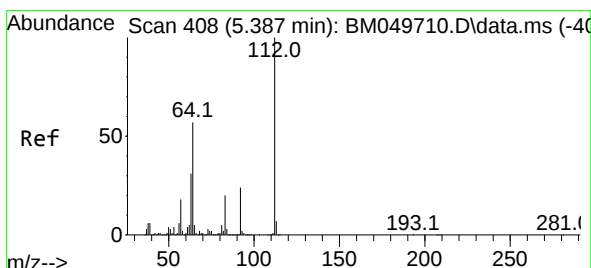
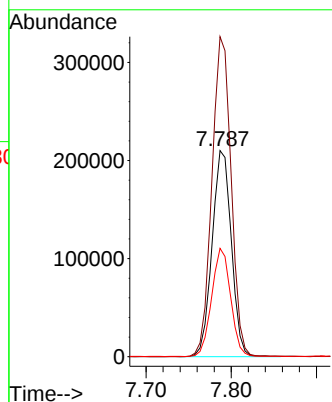
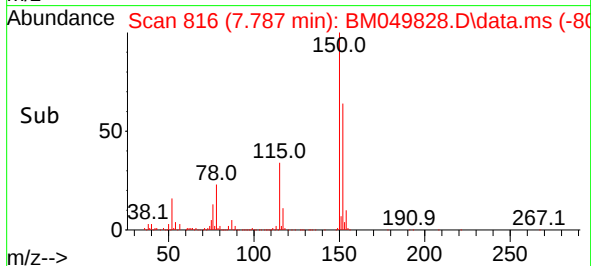
Instrument :
BNA_M
ClientSampleId :
TT-7



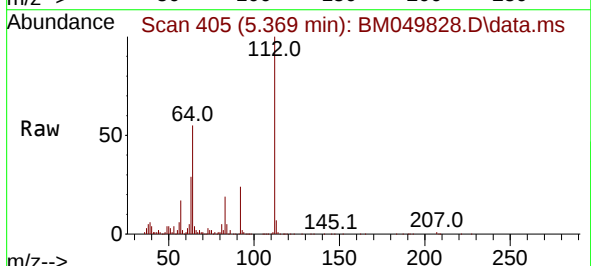
Tgt Ion:152 Resp: 329829
Ion Ratio Lower Upper
152 100
150 155.3 123.8 185.8
115 52.6 43.0 64.6

Manual Integrations
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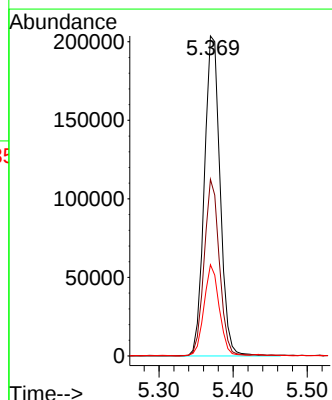
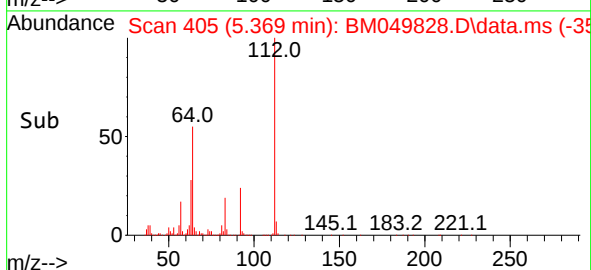
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

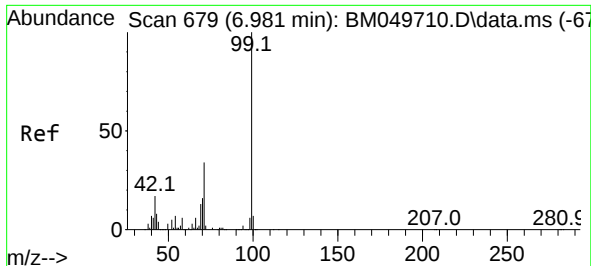


#5
2-Fluorophenol
Concen: 15.432 ng
RT: 5.369 min Scan# 405
Delta R.T. -0.018 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58



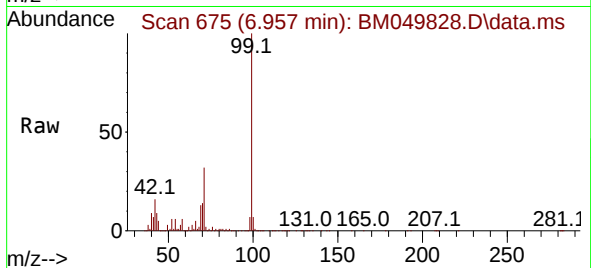
Tgt Ion:112 Resp: 301651
Ion Ratio Lower Upper
112 100
64 55.2 45.3 67.9
63 28.5 24.4 36.6





#7
Phenol-d6
Concen: 16.032 ng
RT: 6.957 min Scan# 61
Delta R.T. -0.024 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

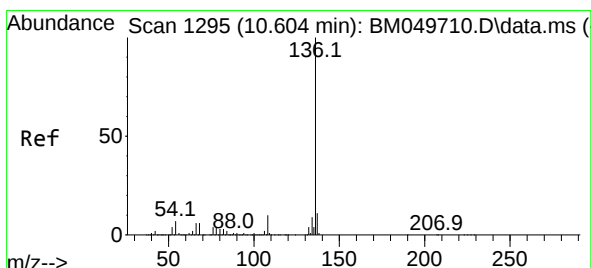
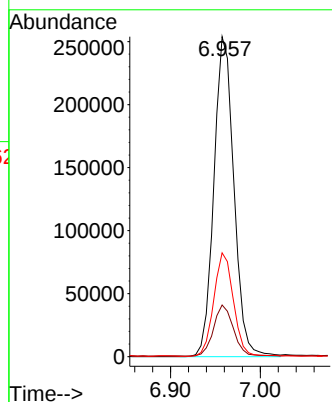
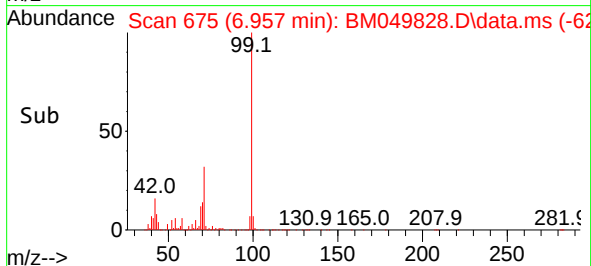
Instrument :
BNA_M
ClientSampleId :
TT-7



Tgt Ion: 99 Resp: 393290
Ion Ratio Lower Upper
99 100
42 16.2 13.6 20.4
71 32.5 27.0 40.6

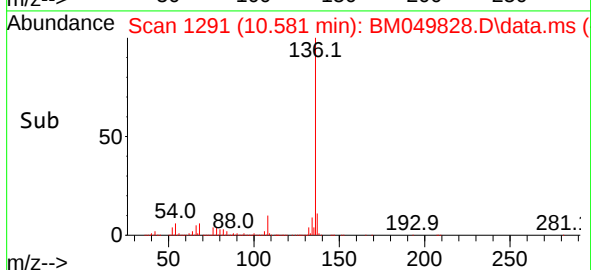
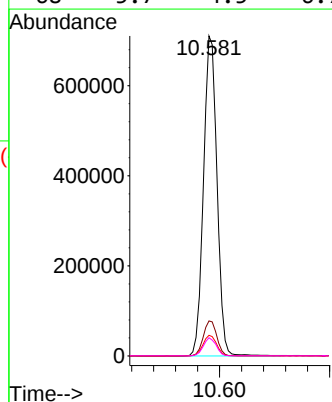
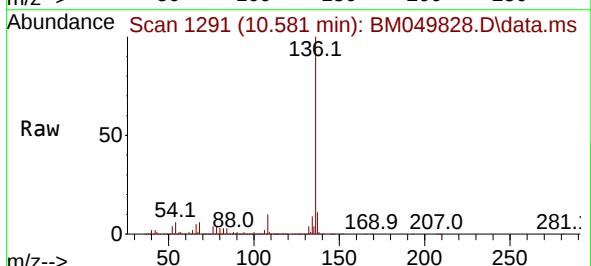
Manual Integrations
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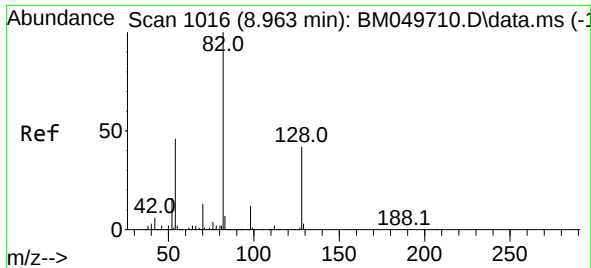
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.581 min Scan# 1291
Delta R.T. -0.024 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

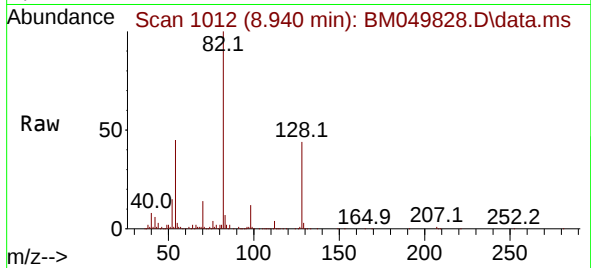
Tgt Ion:136 Resp: 1210782
Ion Ratio Lower Upper
136 100
137 11.0 8.6 12.8
54 6.4 5.8 8.8
68 5.7 4.5 6.7





#23
Nitrobenzene-d5
Concen: 9.772 ng
RT: 8.940 min Scan# 1016
Delta R.T. -0.024 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

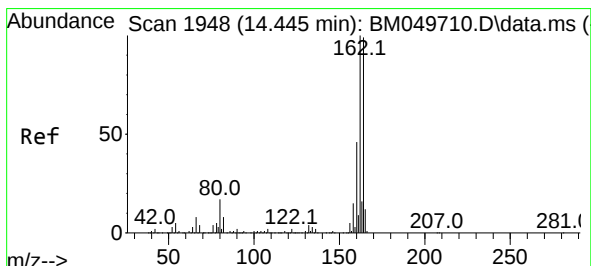
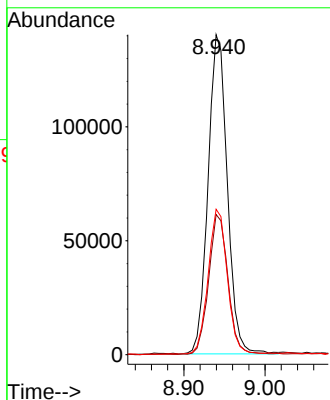
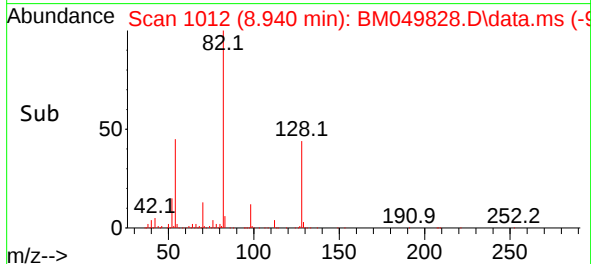
Instrument :
BNA_M
ClientSampleId :
TT-7



Tgt Ion: 82 Resp: 230440
Ion Ratio Lower Upper
82 100
128 43.8 33.4 50.0
54 45.4 36.4 54.6

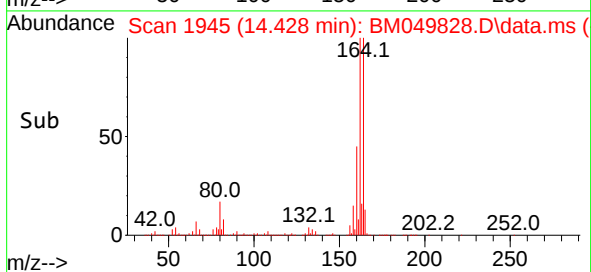
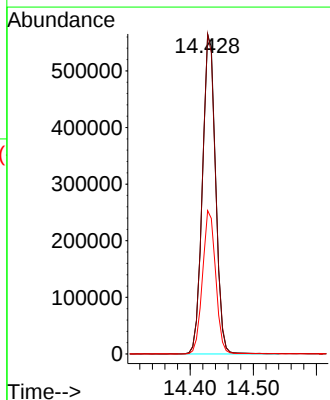
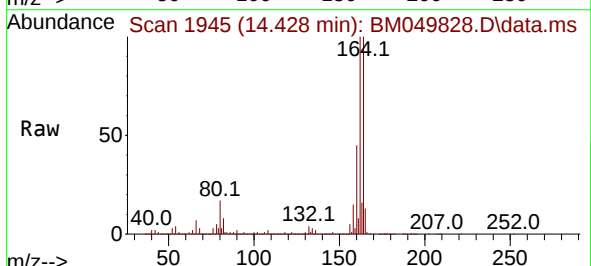
Manual Integrations
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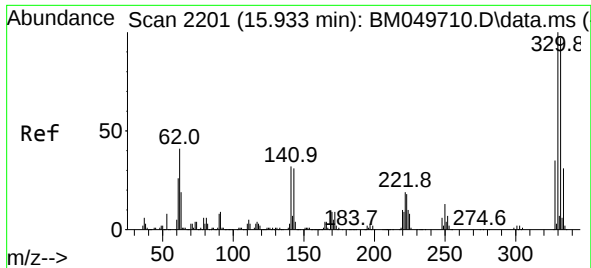
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.428 min Scan# 1945
Delta R.T. -0.018 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

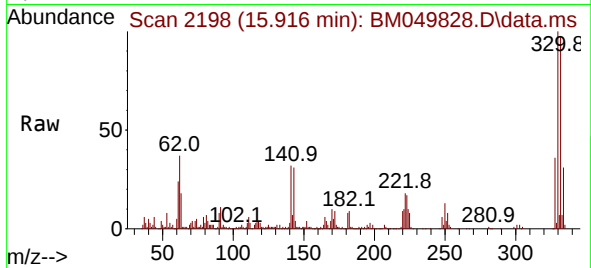
Tgt Ion:164 Resp: 817769
Ion Ratio Lower Upper
164 100
162 100.2 80.5 120.7
160 44.9 36.9 55.3





#42
2,4,6-Tribromophenol
Concen: 15.546 ng
RT: 15.916 min Scan# 2198
Delta R.T. -0.017 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

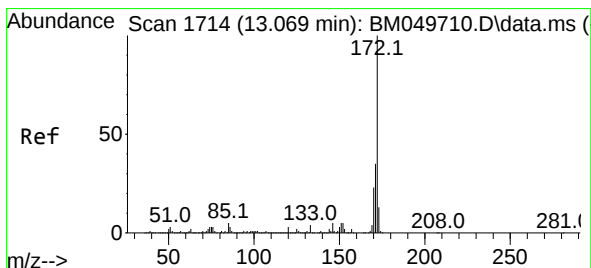
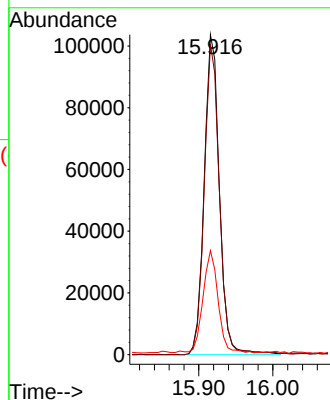
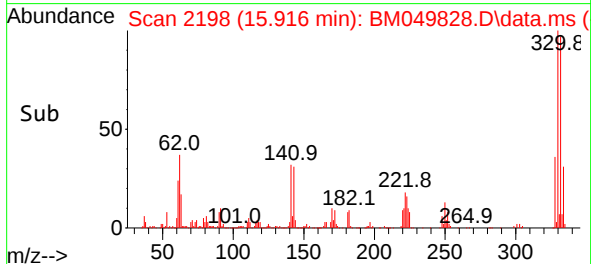
Instrument :
BNA_M
ClientSampleId :
TT-7



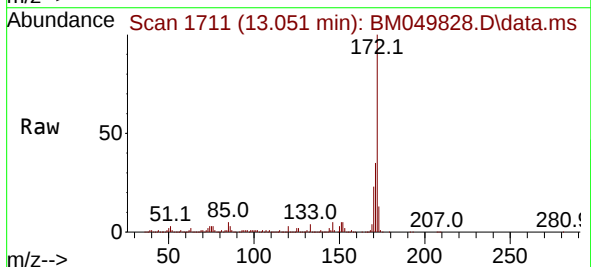
Tgt Ion: 330 Resp: 148448
Ion Ratio Lower Upper
330 100
332 97.1 77.0 115.4
141 31.4 27.8 41.6

Manual Integrations
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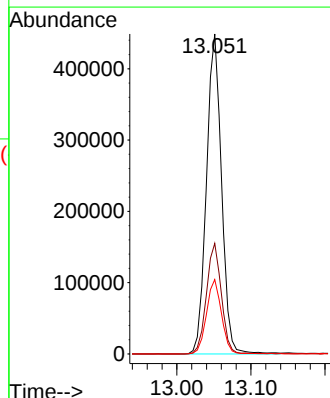
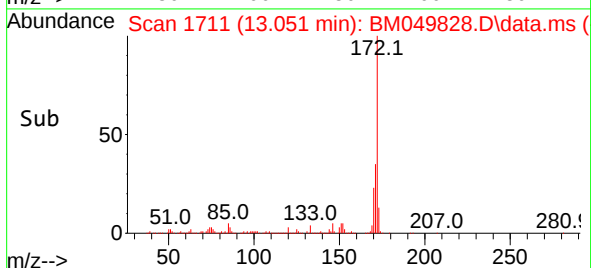
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

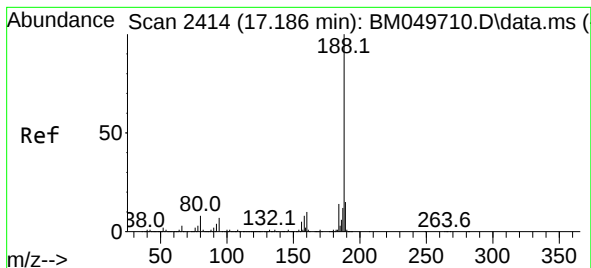


#45
2-Fluorobiphenyl
Concen: 9.738 ng
RT: 13.051 min Scan# 1711
Delta R.T. -0.018 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58



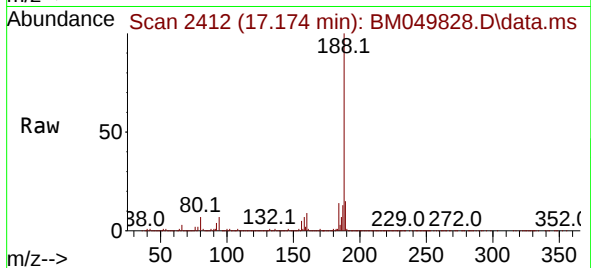
Tgt Ion: 172 Resp: 635861
Ion Ratio Lower Upper
172 100
171 34.6 27.9 41.9
170 23.3 18.6 28.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.174 min Scan# 2414
Delta R.T. -0.012 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

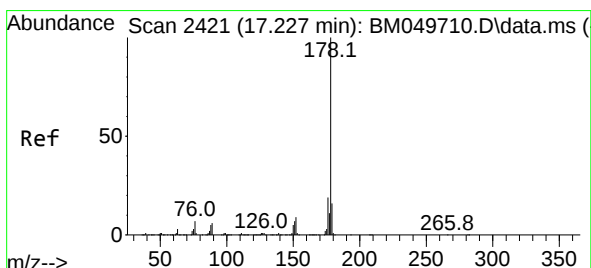
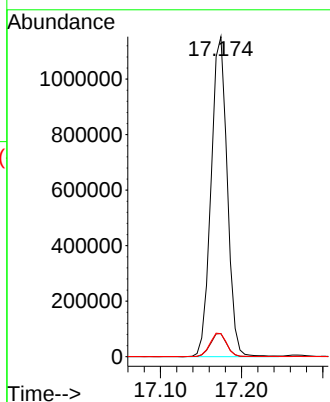
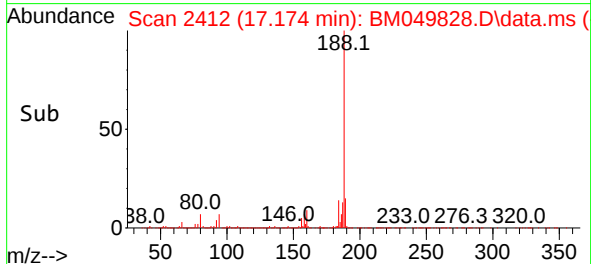
Instrument :
BNA_M
ClientSampleId :
TT-7



Tgt Ion:188 Resp: 159406
Ion Ratio Lower Upper
188 100
94 7.2 5.8 8.6
80 7.2 6.3 9.5

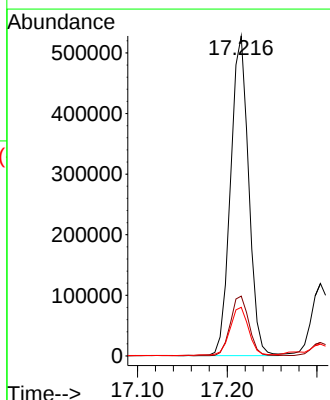
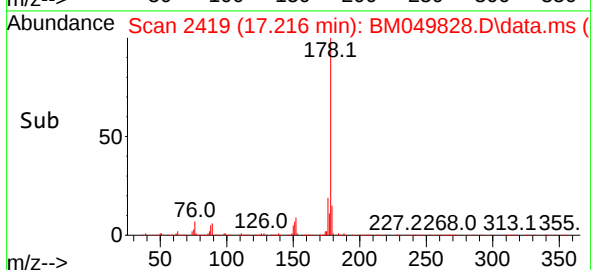
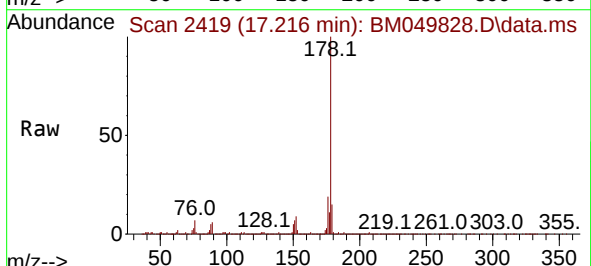
Manual Integrations
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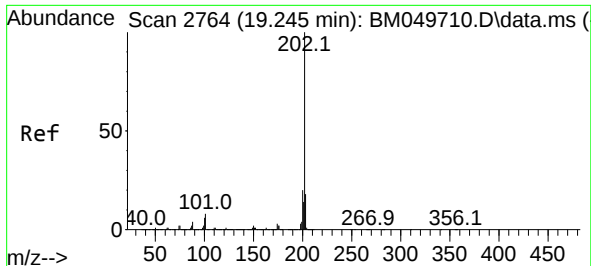
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#71
Phenanthrene
Concen: 8.323 ng
RT: 17.216 min Scan# 2419
Delta R.T. -0.012 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

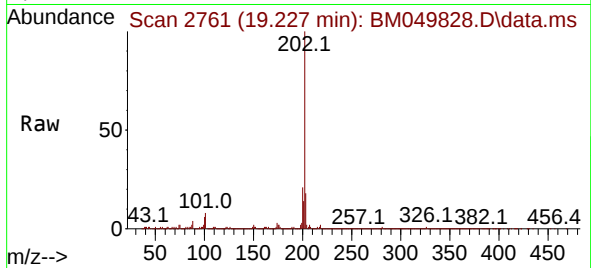
Tgt Ion:178 Resp: 736692
Ion Ratio Lower Upper
178 100
176 18.7 15.5 23.3
179 15.2 12.5 18.7





#75
Fluoranthene
Concen: 13.891 ng
RT: 19.227 min Scan# 21
Delta R.T. -0.018 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

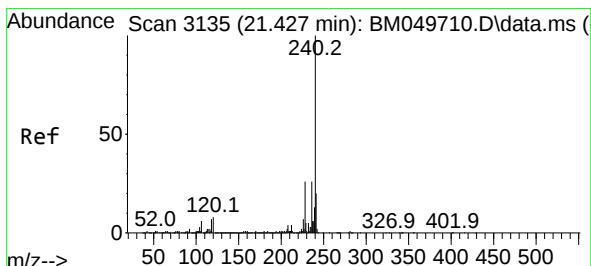
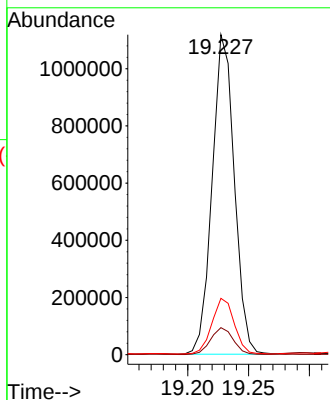
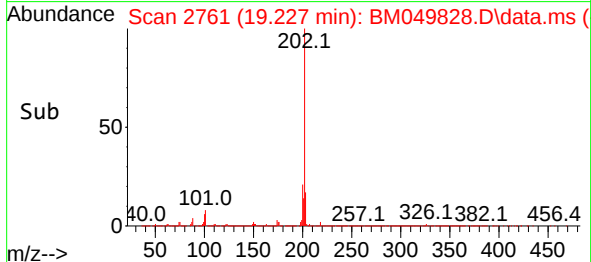
Instrument :
BNA_M
ClientSampleId :
TT-7



Tgt Ion:202 Resp: 1415570
Ion Ratio Lower Upper
202 100
101 8.5 0.0 27.8
203 17.6 0.0 37.6

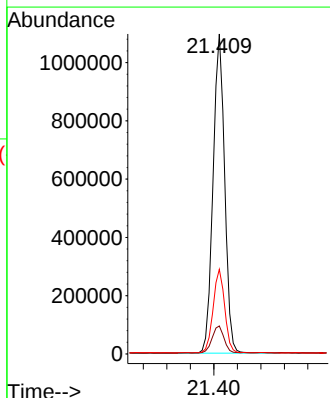
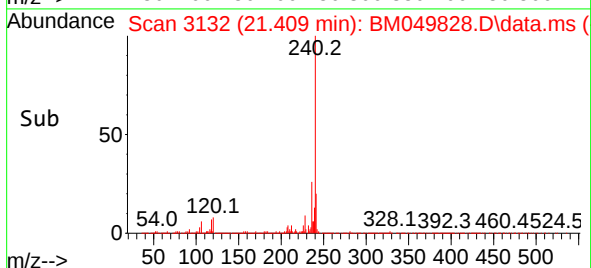
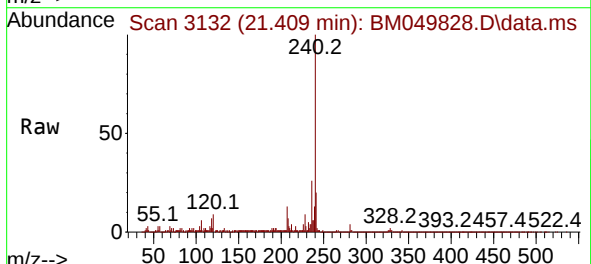
Manual Integrations
APPROVED

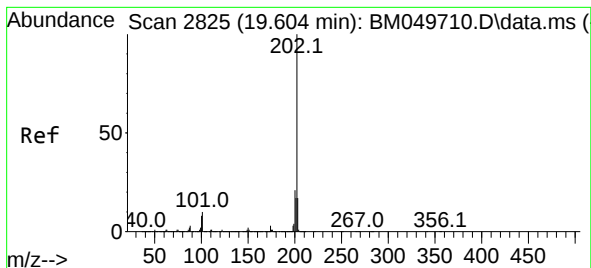
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.409 min Scan# 3132
Delta R.T. -0.018 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

Tgt Ion:240 Resp: 1504122
Ion Ratio Lower Upper
240 100
120 8.8 6.5 9.7
236 26.4 20.7 31.1





#78

Pyrene

Concen: 13.521 ng

RT: 19.592 min Scan# 2823

Delta R.T. -0.012 min

Lab File: BM049828.D

Acq: 04 Apr 2025 17:58

Instrument :

BNA_M

ClientSampleId :

TT-7

Tgt Ion:202 Resp: 142092

Ion Ratio Lower Upper

202 100

200 20.8 17.0 25.4

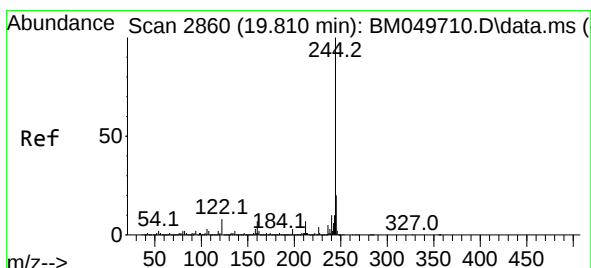
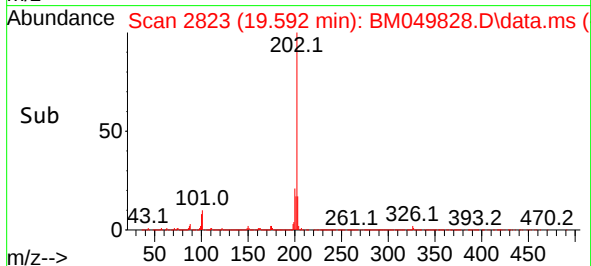
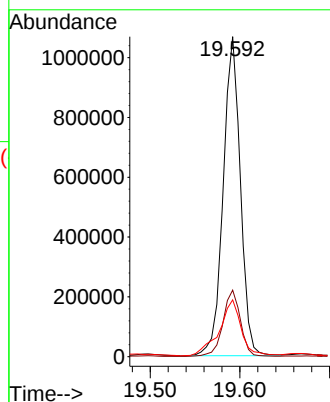
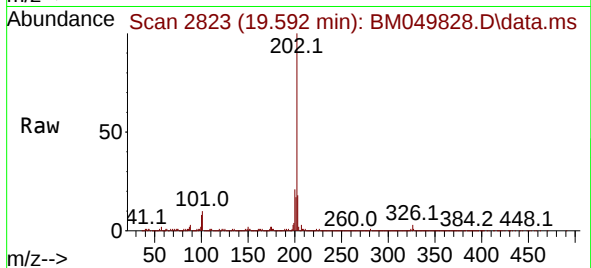
203 17.8 14.0 21.0

Manual Integrations

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Reviewed By :Anahy Claudio 04/07/2025

Supervised By :Jagrut Upadhyay 04/07/2025



#79

Terphenyl-d14

Concen: 9.590 ng

RT: 19.792 min Scan# 2857

Delta R.T. -0.018 min

Lab File: BM049828.D

Acq: 04 Apr 2025 17:58

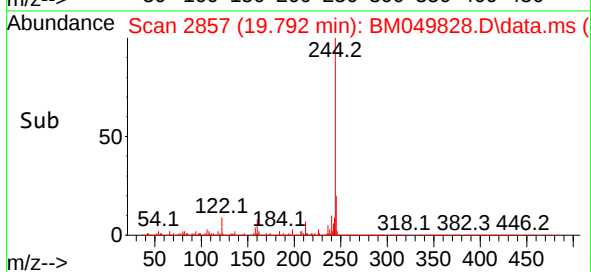
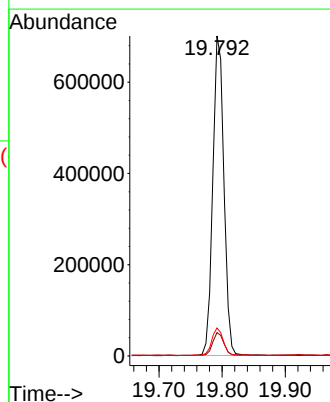
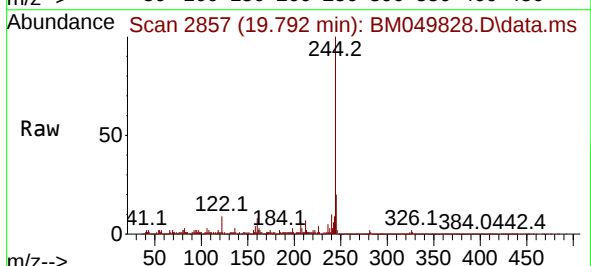
Tgt Ion:244 Resp: 855997

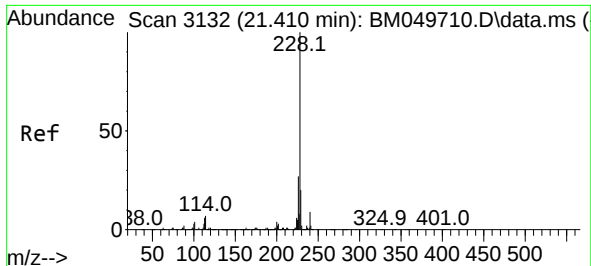
Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.6

122 8.8 6.0 9.0





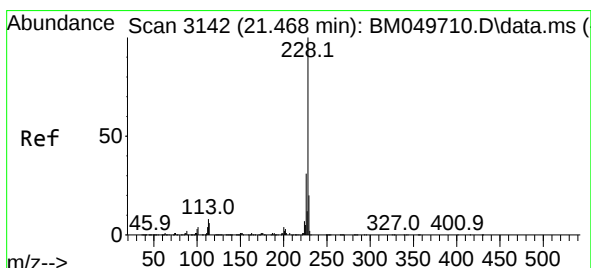
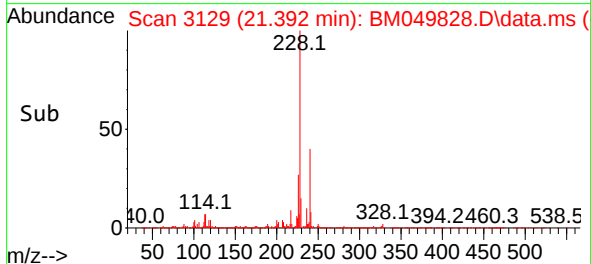
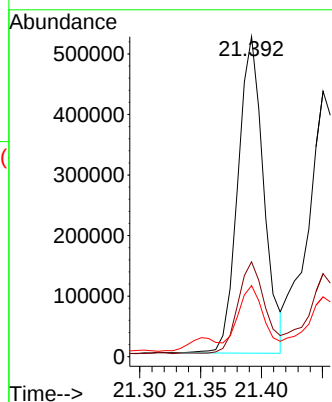
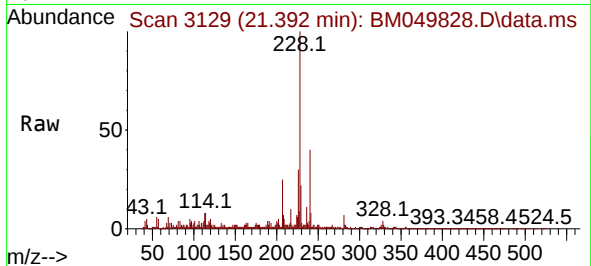
#81
Benzo(a)anthracene
Concen: 7.660 ng
RT: 21.392 min Scan# 3132
Delta R.T. -0.018 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

Instrument :
BNA_M
ClientSampleId :
TT-7

Tgt Ion:228 Resp: 76953
Ion Ratio Lower Upper
228 100
226 29.6 22.0 33.0
229 22.2 15.8 23.8

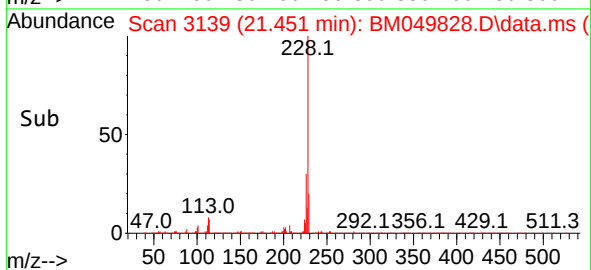
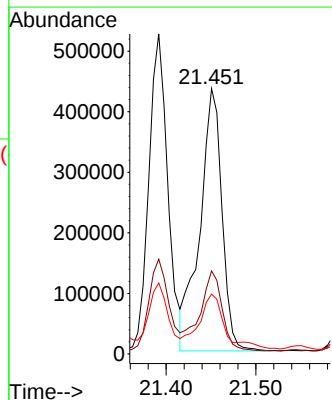
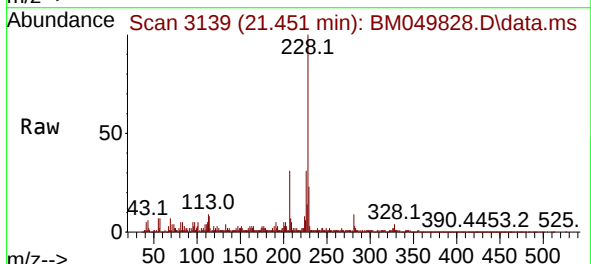
Manual Integrations
APPROVED

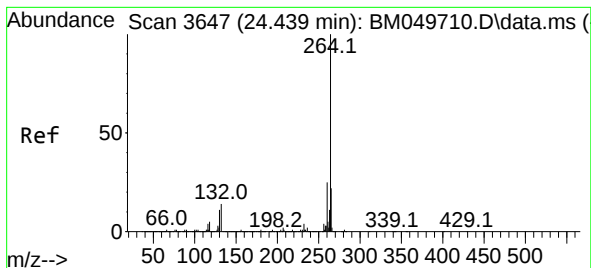
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#83
Chrysene
Concen: 7.818 ng
RT: 21.451 min Scan# 3139
Delta R.T. -0.018 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

Tgt Ion:228 Resp: 744508
Ion Ratio Lower Upper
228 100
226 31.3 24.5 36.7
229 22.5 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.421 min Scan# 30

Delta R.T. -0.018 min

Lab File: BM049828.D

Acq: 04 Apr 2025 17:58

Instrument :

BNA_M

ClientSampleId :

TT-7

Tgt Ion:264 Resp: 173833

Ion Ratio Lower Upper

264 100

260 23.3 19.6 29.4

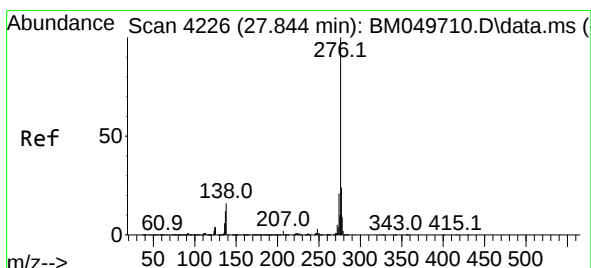
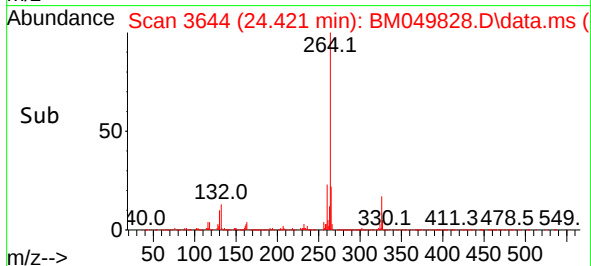
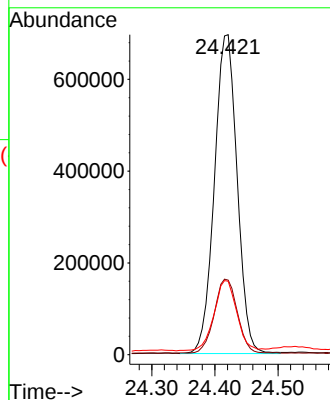
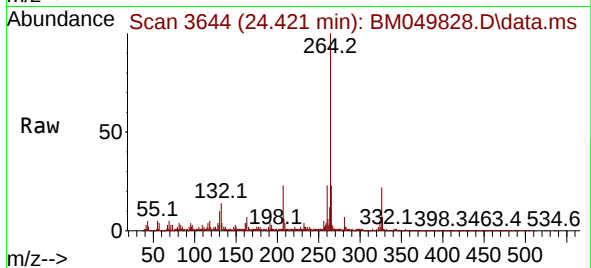
265 22.9 18.2 27.2

Manual Integrations

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Reviewed By :Anahy Claudio 04/07/2025

Supervised By :Jagrut Upadhyay 04/07/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.390 ng

RT: 27.809 min Scan# 4220

Delta R.T. -0.035 min

Lab File: BM049828.D

Acq: 04 Apr 2025 17:58

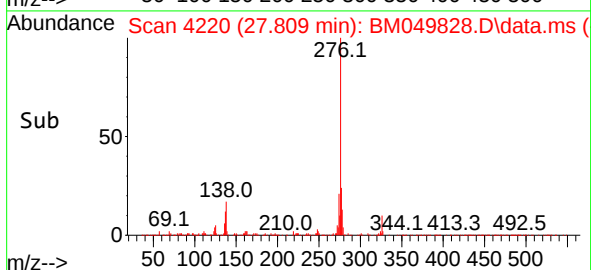
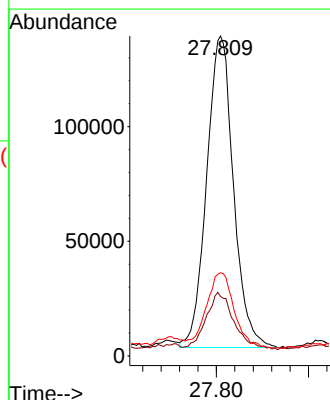
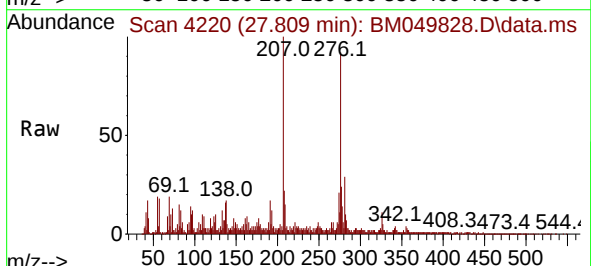
Tgt Ion:276 Resp: 549268

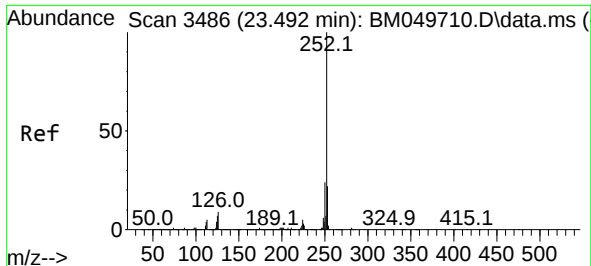
Ion Ratio Lower Upper

276 100

138 19.5 16.3 24.5

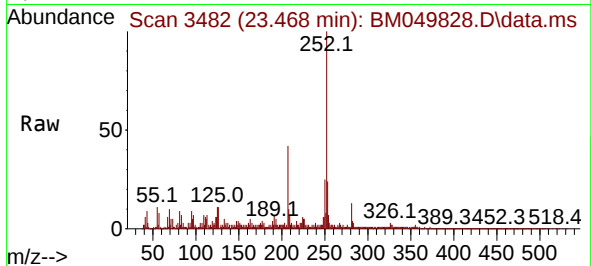
277 25.6 19.9 29.9





#88
Benzo(b)fluoranthene
Concen: 8.697 ng
RT: 23.468 min Scan# 3486
Delta R.T. -0.024 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

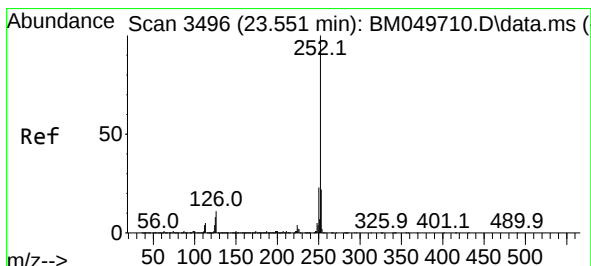
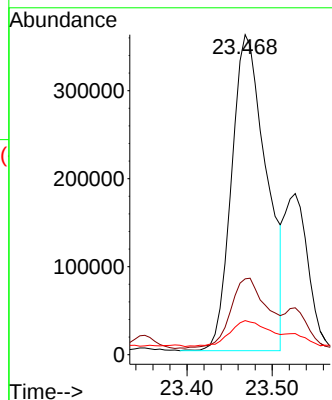
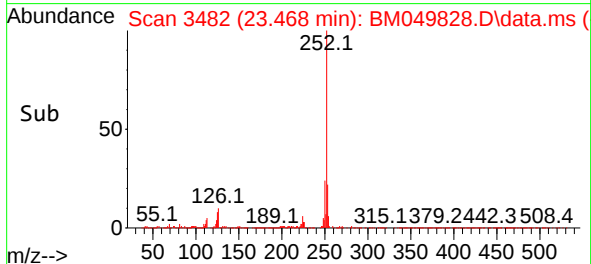
Instrument :
BNA_M
ClientSampleId :
TT-7



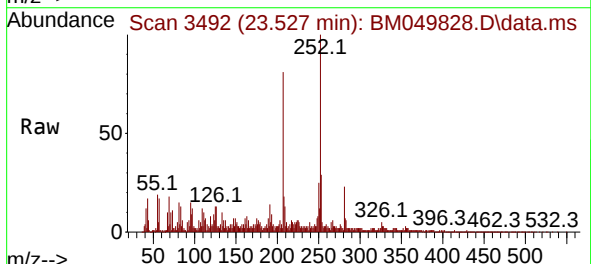
Tgt Ion:252 Resp: 1018269
Ion Ratio Lower Upper
252 100
253 23.7 17.4 26.0
125 10.6 5.9 8.9

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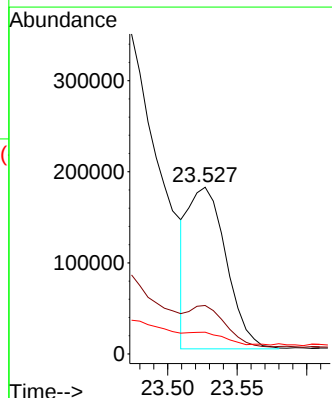
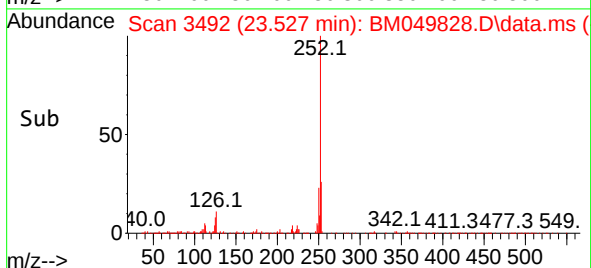
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

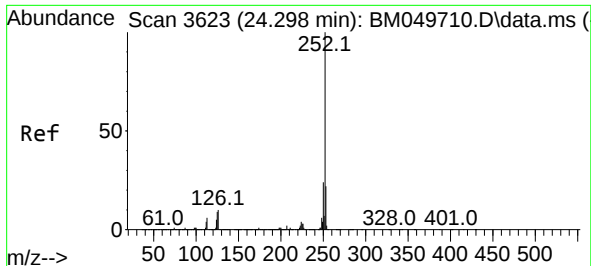


#89
Benzo(k)fluoranthene
Concen: 2.922 ng m
RT: 23.527 min Scan# 3492
Delta R.T. -0.024 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58



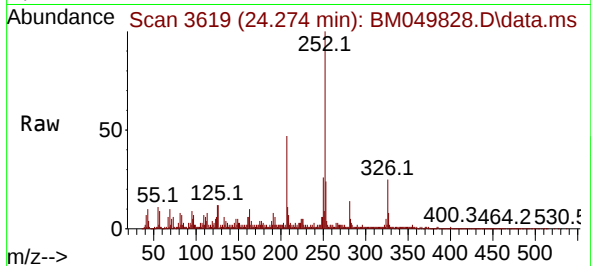
Tgt Ion:252 Resp: 336629
Ion Ratio Lower Upper
252 100
253 29.1 17.3 25.9#
125 13.1 6.2 9.2#





#90
Benzo(a)pyrene
Concen: 7.976 ng
RT: 24.274 min Scan# 3619
Delta R.T. -0.024 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58

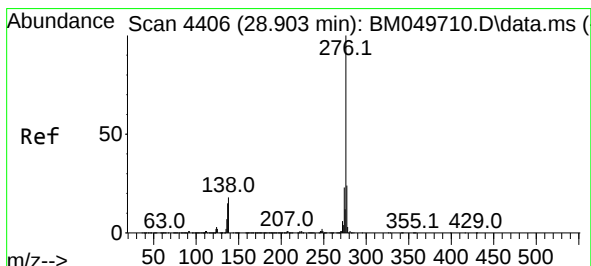
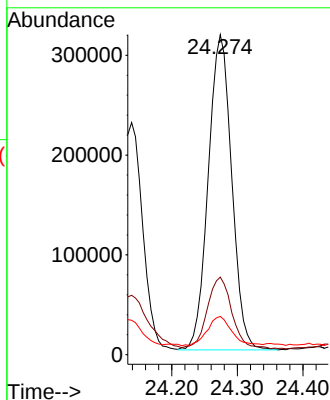
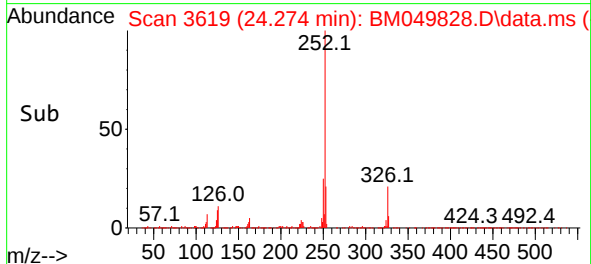
Instrument :
BNA_M
ClientSampleId :
TT-7



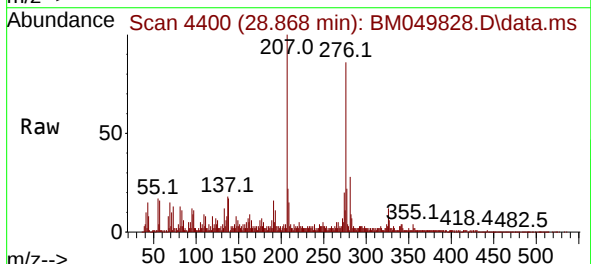
Tgt Ion: 252 Resp: 784410
Ion Ratio Lower Upper
252 100
253 24.2 17.2 25.8
125 12.0 7.0 10.6

Manual Integrations
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Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#92
Benzo(g,h,i)perylene
Concen: 5.293 ng
RT: 28.868 min Scan# 4400
Delta R.T. -0.035 min
Lab File: BM049828.D
Acq: 04 Apr 2025 17:58



Tgt Ion: 276 Resp: 555747
Ion Ratio Lower Upper
276 100
277 25.8 18.8 28.2
138 20.2 14.0 21.0

