

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081225\
 Data File : BP025375.D
 Acq On : 12 Aug 2025 20:46
 Operator : CG/JU
 Sample : Q2823-01 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SU-04-081125

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/13/2025
 Supervised By :Jagrut Upadhyay 08/13/2025

Quant Time: Aug 12 23:01:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP080525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 06 06:41:44 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.802	152	220572	20.000	ng	0.00
21) Naphthalene-d8	10.578	136	870118	20.000	ng	0.00
39) Acenaphthene-d10	14.425	164	537895	20.000	ng	0.00
64) Phenanthrene-d10	17.231	188	1013611	20.000	ng	0.00
76) Chrysene-d12	21.677	240	979275	20.000	ng	0.02
86) Perylene-d12	25.065	264	1164191	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.419	112	464353	33.860	ng	0.01
7) Phenol-d6	6.978	99	582356	32.266	ng	0.01
23) Nitrobenzene-d5	8.943	82	375859	23.931	ng	0.00
42) 2,4,6-Tribromophenol	15.937	330	243841	45.441	ng	0.01
45) 2-Fluorobiphenyl	13.037	172	938066	24.088	ng	0.00
79) Terphenyl-d14	19.948	244	1333308	25.716	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.625	128	103627	2.294	ng	99
37) 2-Methylnaphthalene	12.237	142	110638	3.784	ng	99
38) 1-Methylnaphthalene	12.454	142	138257	4.532	ng	98
49) Acenaphthylene	14.148	152	358273	7.102	ng	97
52) Acenaphthene	14.495	154	117210	3.809	ng	99
55) Dibenzofuran	14.831	168	164319	3.574	ng	# 94
58) Fluorene	15.490	166	385627	10.678	ng	98
71) Phenanthrene	17.278	178	2444356	44.029	ng	99
72) Anthracene	17.372	178	748236	13.367	ng	99
73) Carbazole	17.642	167	133364	2.482	ng	96
75) Fluoranthene	19.354	202	2870450	44.664	ng	98
78) Pyrene	19.736	202	2962848	45.498	ng	100
81) Benzo(a)anthracene	21.660	228	1407117m	21.623	ng	
83) Chrysene	21.730	228	1293131	21.424	ng	97
87) Indeno(1,2,3-cd)pyrene	28.948	276	764433	9.161	ng	# 92
88) Benzo(b)fluoranthene	24.001	252	1494717	21.448	ng	97
89) Benzo(k)fluoranthene	24.060	252	527182m	7.631	ng	
90) Benzo(a)pyrene	24.907	252	1243517	18.529	ng	99
91) Dibenzo(a,h)anthracene	29.018	278	214459	3.138	ng	# 84
92) Benzo(g,h,i)perylene	30.136	276	692217	10.321	ng	100

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

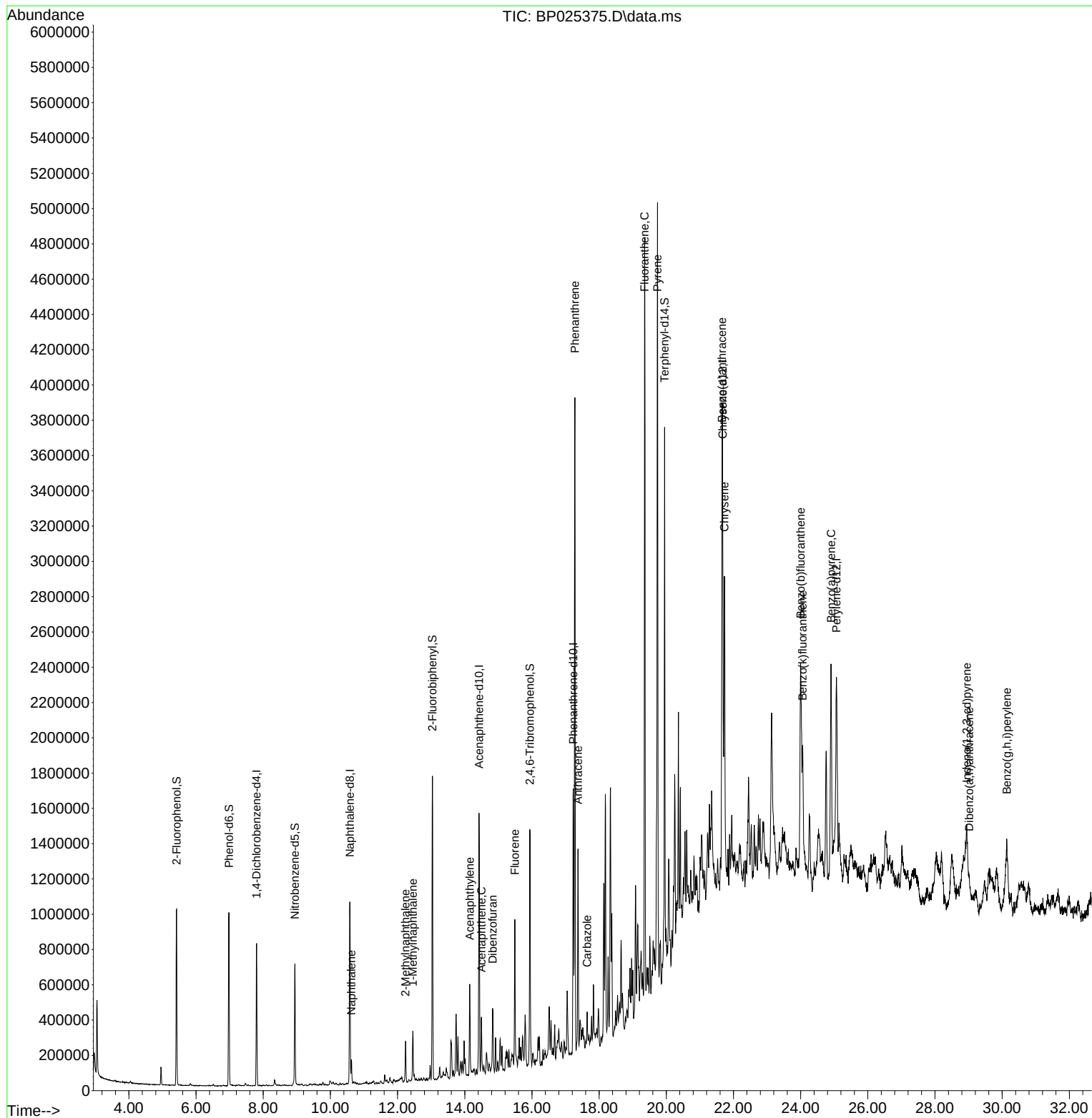
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081225\
Data File : BP025375.D
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ALS Vial : 17 Sample Multiplier: 1

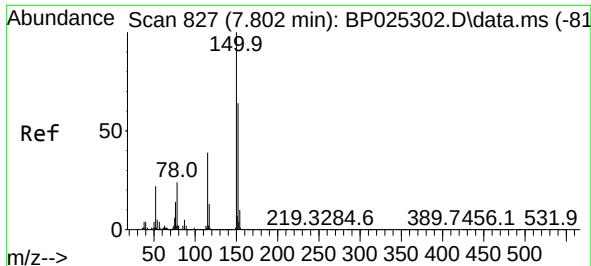
Instrument :
BNA_P
ClientSampleId :
SU-04-081125

Quant Time: Aug 12 23:01:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP080525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 06:41:44 2025
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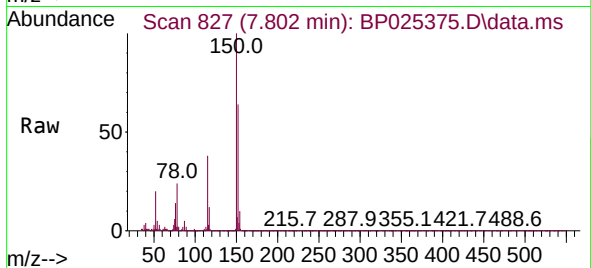
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.802 min Scan# 81
Delta R.T. -0.000 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

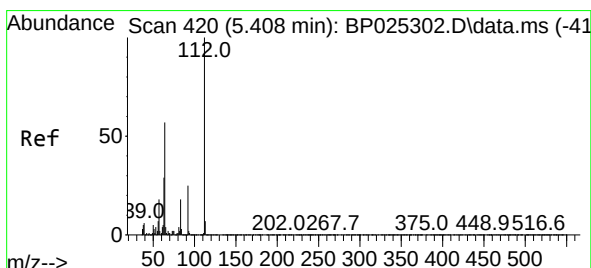
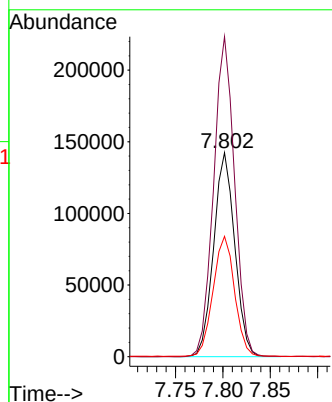
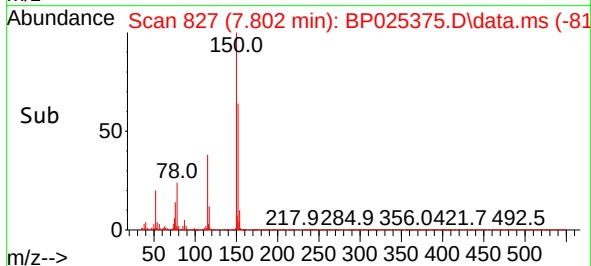
Instrument :
BNA_P
ClientSampleId :
SU-04-081125



Tgt Ion:152 Resp: 220572
Ion Ratio Lower Upper
152 100
150 156.9 125.1 187.7
115 59.0 48.4 72.6

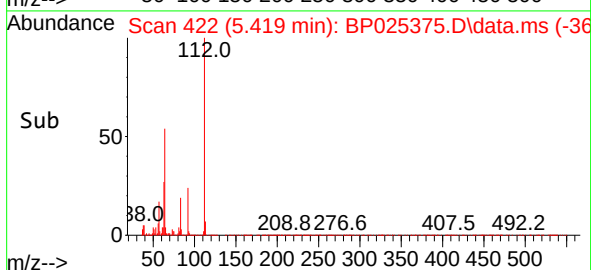
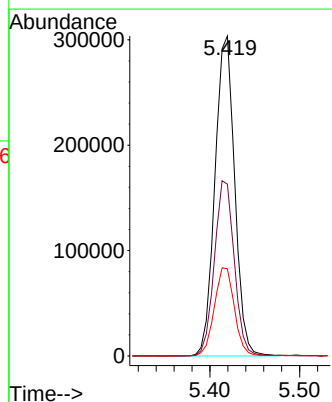
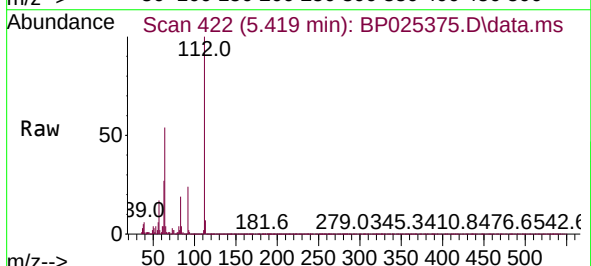
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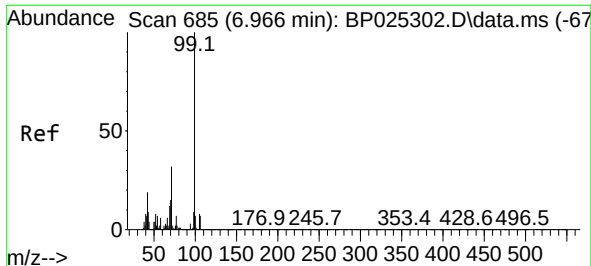
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025



#5
2-Fluorophenol
Concen: 33.860 ng
RT: 5.419 min Scan# 422
Delta R.T. 0.011 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Tgt Ion:112 Resp: 464353
Ion Ratio Lower Upper
112 100
64 53.7 45.3 67.9
63 27.3 23.0 34.6





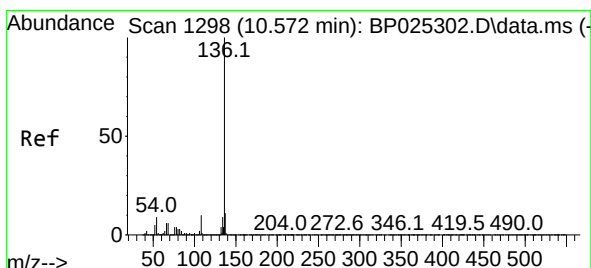
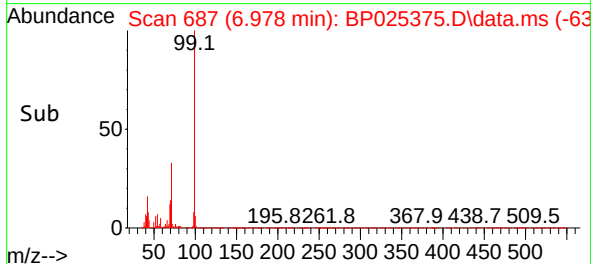
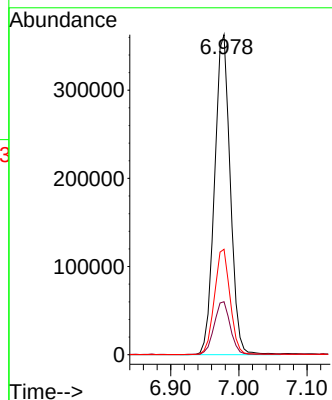
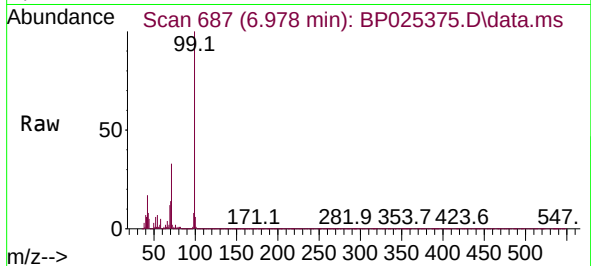
#7
Phenol-d6
Concen: 32.266 ng
RT: 6.978 min Scan# 687
Delta R.T. 0.012 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Instrument :
BNA_P
ClientSampleId :
SU-04-081125

Tgt Ion: 99 Resp: 582350
Ion Ratio Lower Upper
99 100
42 16.5 15.0 22.6
71 33.0 25.5 38.3

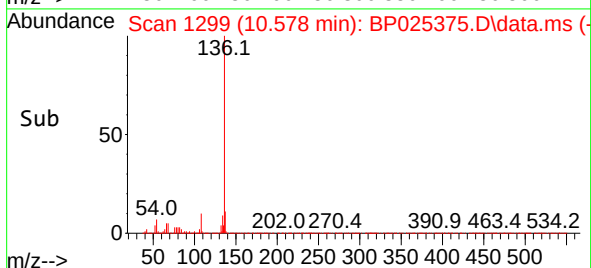
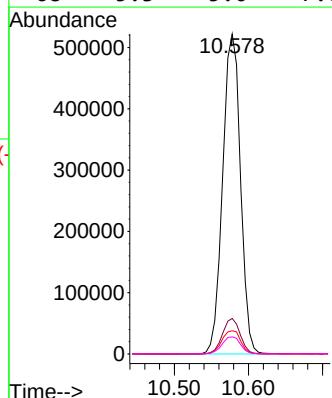
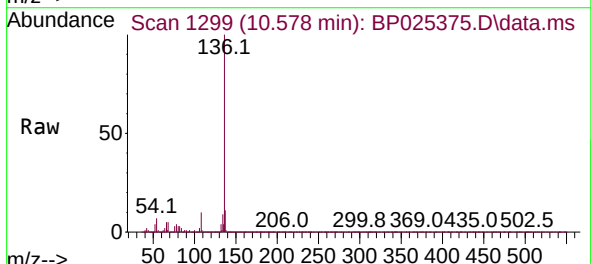
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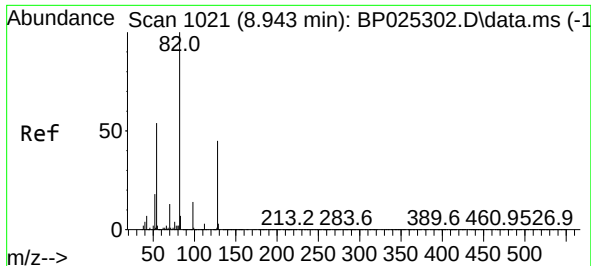
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.578 min Scan# 1299
Delta R.T. 0.006 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Tgt Ion:136 Resp: 870118
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 7.3 7.0 10.6
68 5.3 5.0 7.6





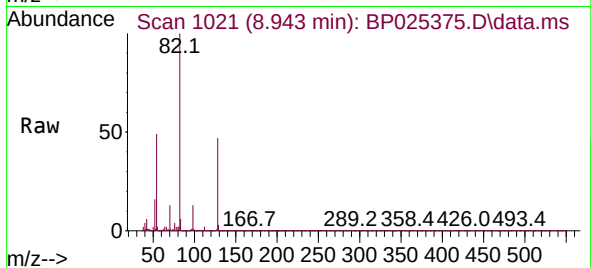
#23
Nitrobenzene-d5
Concen: 23.931 ng
RT: 8.943 min Scan# 1021
Delta R.T. -0.000 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125



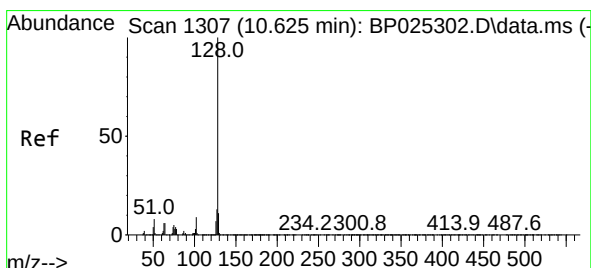
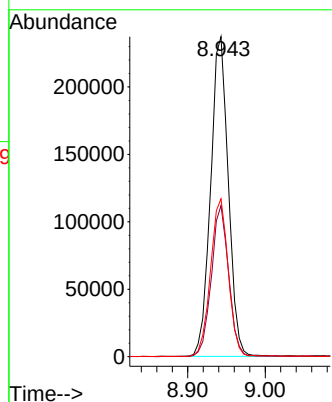
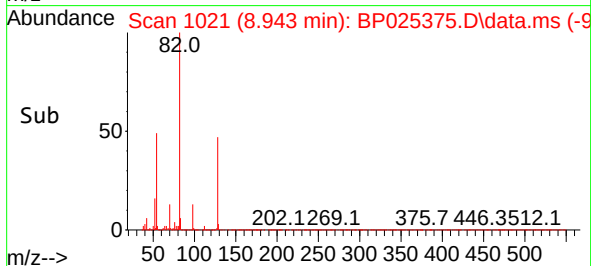
Tgt Ion: 82 Resp: 375859
Ion Ratio Lower Upper
82 100
128 47.2 35.4 53.2
54 49.4 42.9 64.3

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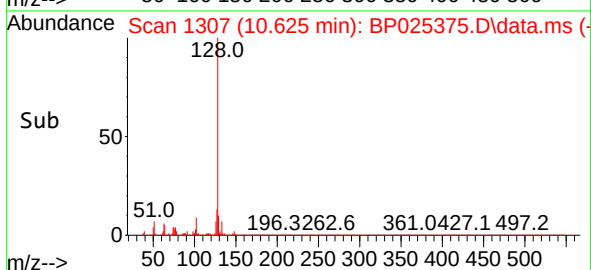
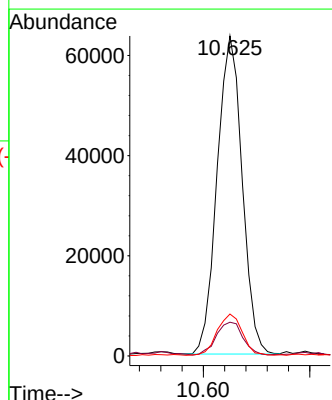
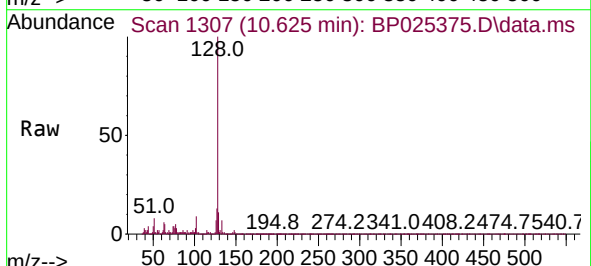
Reviewed By :Rahul Chavli 08/13/2025

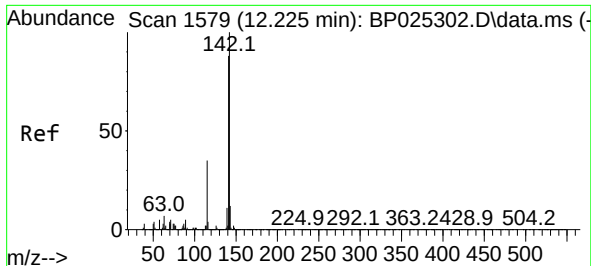
Supervised By :Jagrut Upadhyay 08/13/2025



#31
Naphthalene
Concen: 2.294 ng
RT: 10.625 min Scan# 1307
Delta R.T. 0.000 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Tgt Ion:128 Resp: 103627
Ion Ratio Lower Upper
128 100
129 10.6 8.9 13.3
127 13.1 10.4 15.6





#37
2-Methylnaphthalene
Concen: 3.784 ng
RT: 12.237 min Scan# 11
Delta R.T. 0.012 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

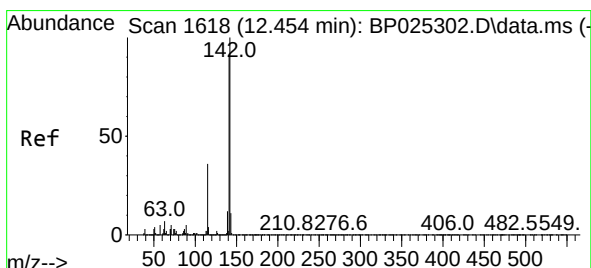
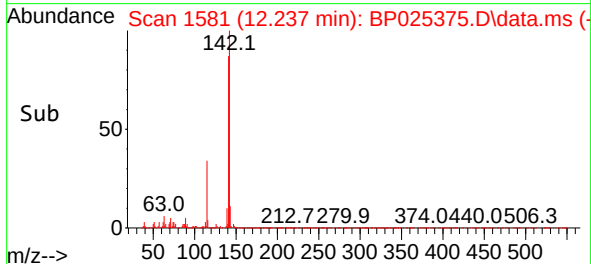
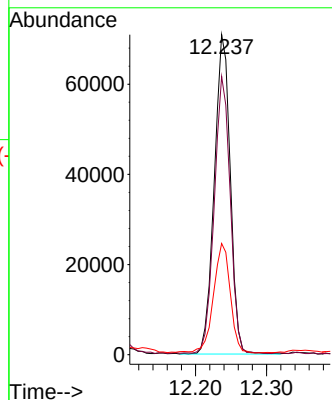
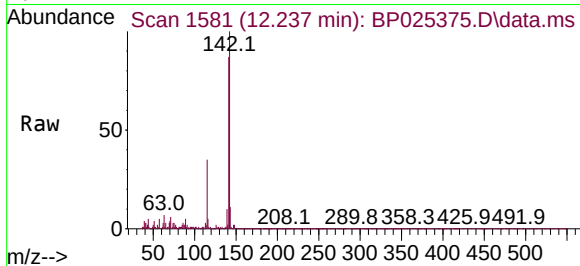
Tgt Ion:142 Resp: 110638
Ion Ratio Lower Upper
142 100
141 86.9 70.4 105.6
115 34.8 28.0 42.0

Manual Integrations

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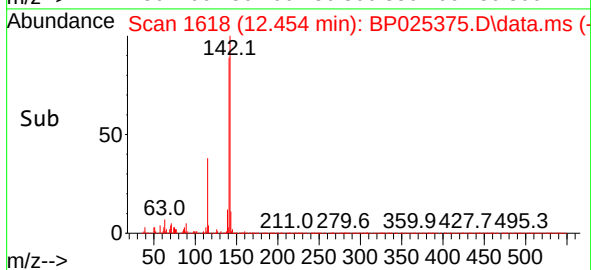
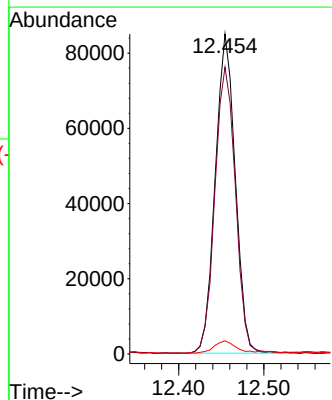
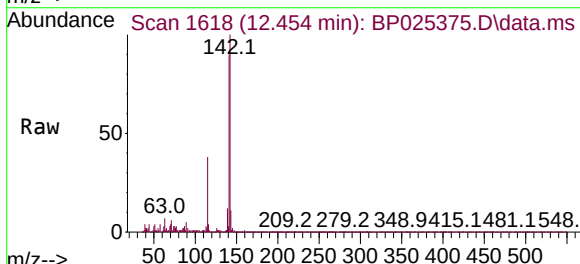
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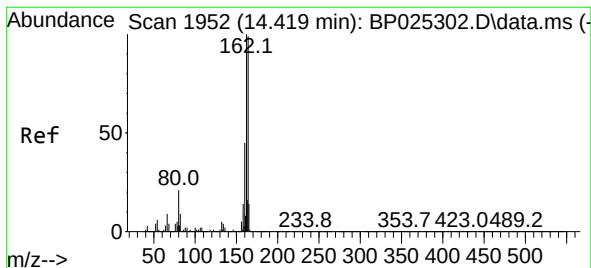
Supervised By :Jagrut Upadhyay 08/13/2025



#38
1-Methylnaphthalene
Concen: 4.532 ng
RT: 12.454 min Scan# 1618
Delta R.T. 0.000 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Tgt Ion:142 Resp: 138257
Ion Ratio Lower Upper
142 100
141 89.6 73.0 109.6
116 4.1 3.0 4.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.425 min Scan# 1953

Delta R.T. 0.006 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

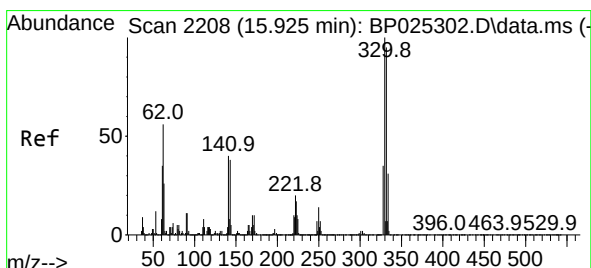
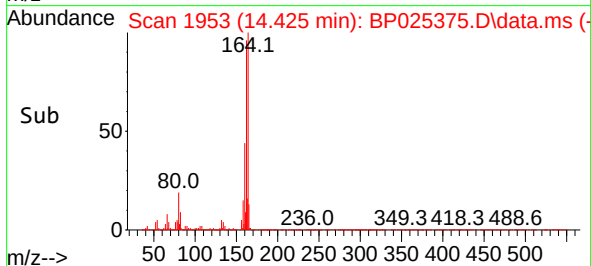
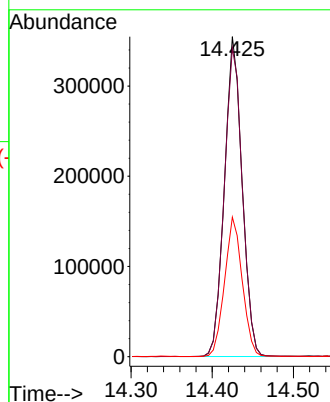
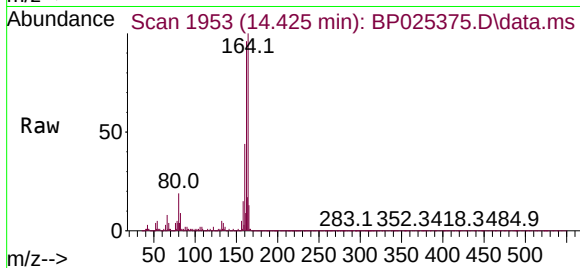
Tgt Ion:164	Resp: 53789
Ion Ratio	Lower Upper
164	100
162	96.4 80.6 120.8
160	43.6 35.9 53.9

Manual Integrations

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Reviewed By :Rahul Chavli 08/13/2025

Supervised By :Jagrut Upadhyay 08/13/2025



#42

2,4,6-Tribromophenol

Concen: 45.441 ng

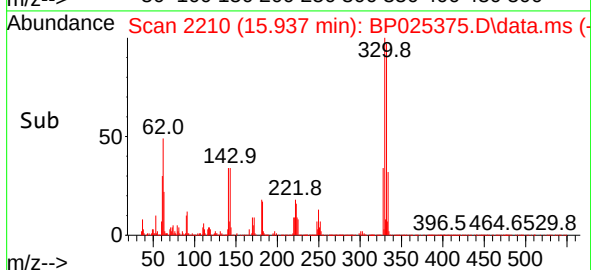
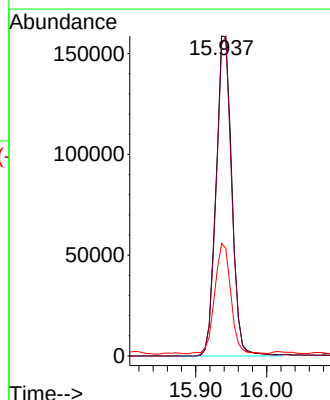
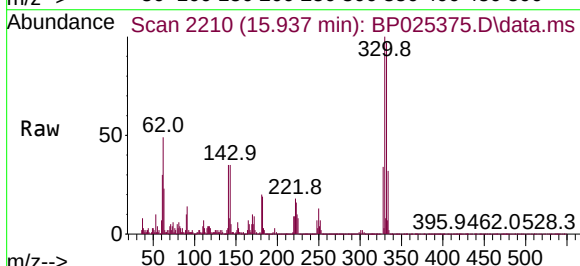
RT: 15.937 min Scan# 2210

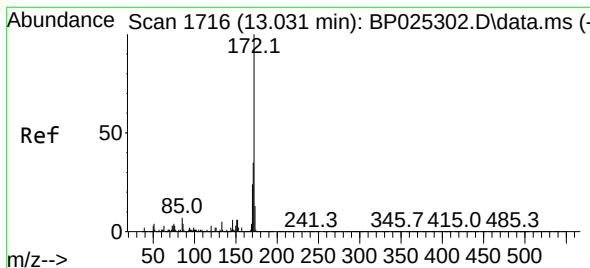
Delta R.T. 0.012 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Tgt Ion:330	Resp: 243841
Ion Ratio	Lower Upper
330	100
332	97.4 77.4 116.0
141	35.1 31.7 47.5





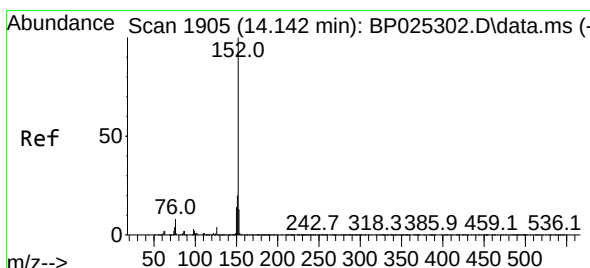
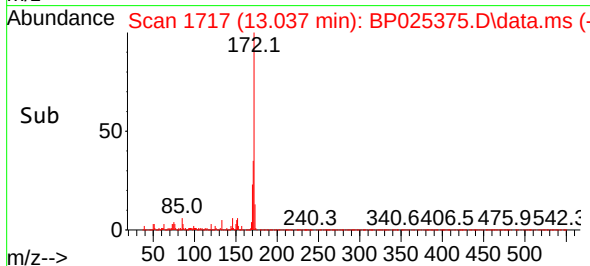
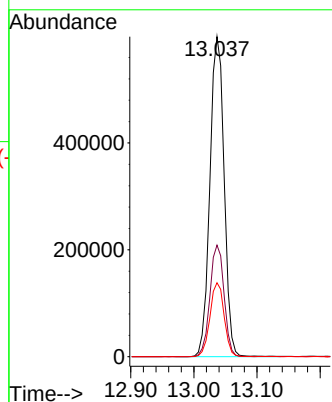
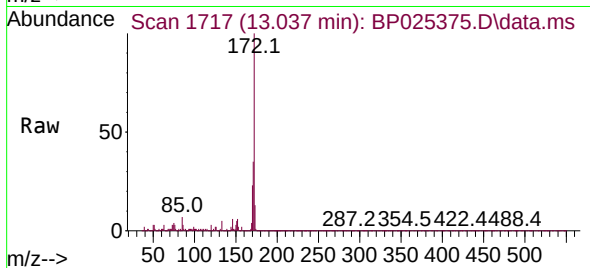
#45
2-Fluorobiphenyl
Concen: 24.088 ng
RT: 13.037 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Instrument :
BNA_P
ClientSampleId :
SU-04-081125

Tgt Ion:172 Resp: 93806
Ion Ratio Lower Upper
172 100
171 34.9 27.9 41.9
170 23.1 18.9 28.3

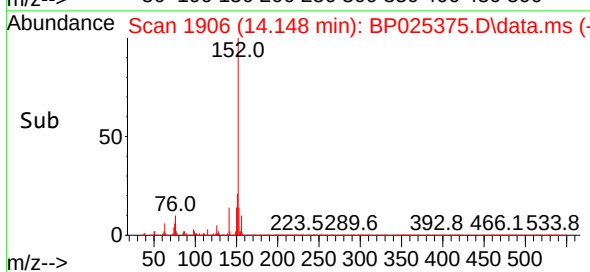
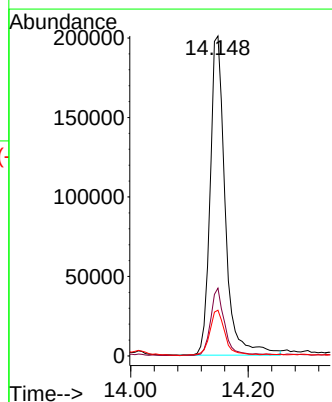
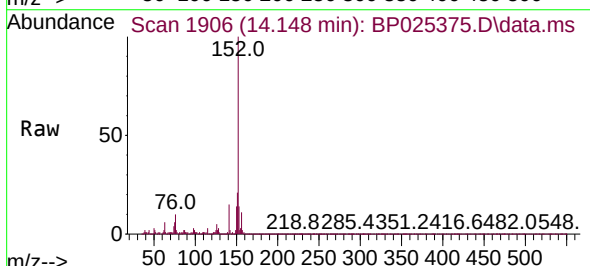
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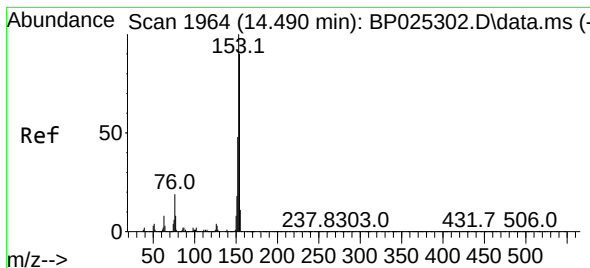
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025



#49
Acenaphthylene
Concen: 7.102 ng
RT: 14.148 min Scan# 1906
Delta R.T. 0.006 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Tgt Ion:152 Resp: 358273
Ion Ratio Lower Upper
152 100
151 21.2 15.8 23.6
153 14.3 10.4 15.6





#52
Acenaphthene
Concen: 3.809 ng
RT: 14.495 min Scan# 1964
Delta R.T. 0.005 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

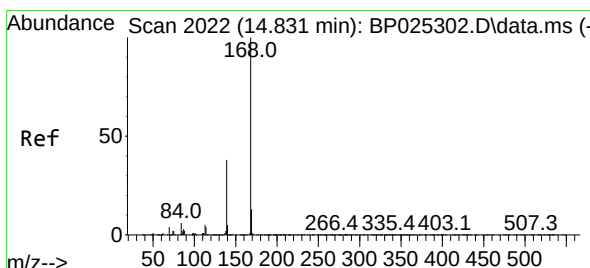
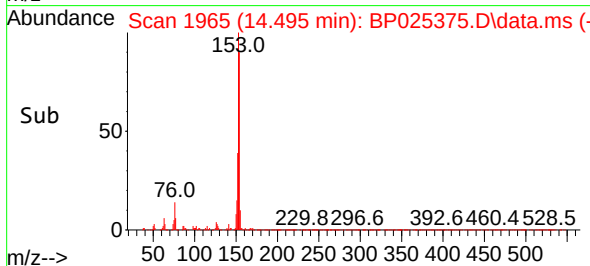
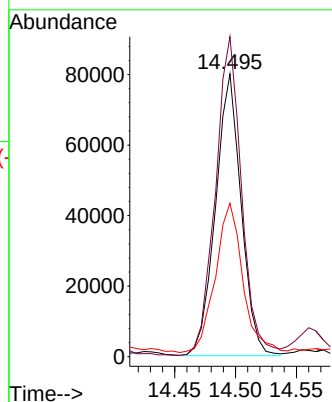
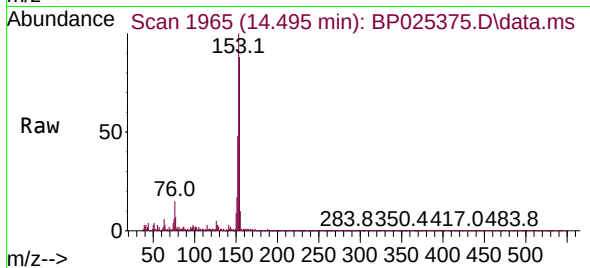
SU-04-081125

Tgt Ion:154 Resp: 117210
Ion Ratio Lower Upper
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152 54.3 43.0 64.6

Manual Integrations

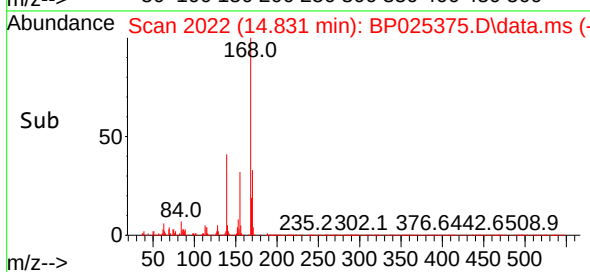
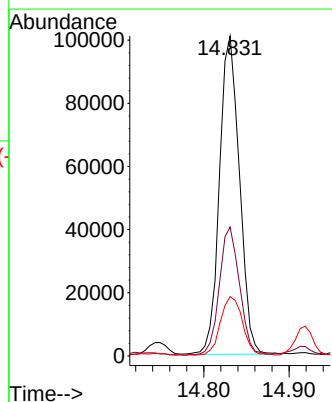
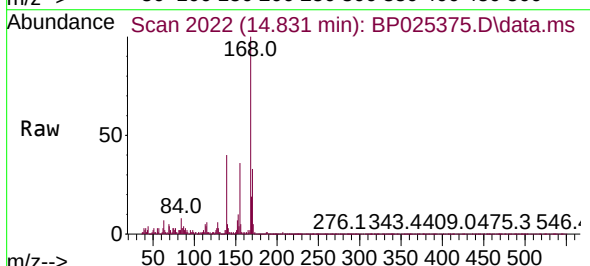
APPROVED

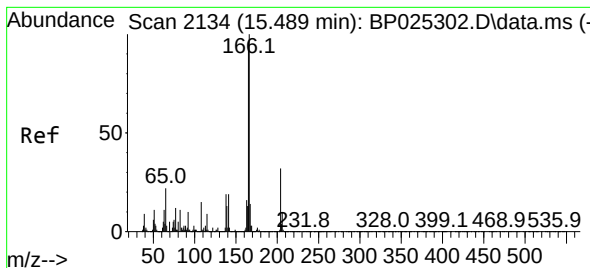
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025



#55
Dibenzofuran
Concen: 3.574 ng
RT: 14.831 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Tgt Ion:168 Resp: 164319
Ion Ratio Lower Upper
168 100
139 40.3 30.5 45.7
169 18.5 10.6 15.8#





#58

Fluorene

Concen: 10.678 ng

RT: 15.490 min Scan# 2134

Delta R.T. 0.000 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

Tgt Ion:166 Resp: 38562

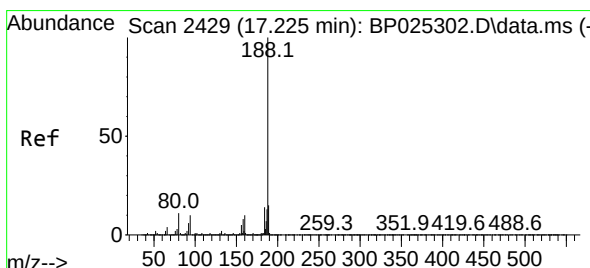
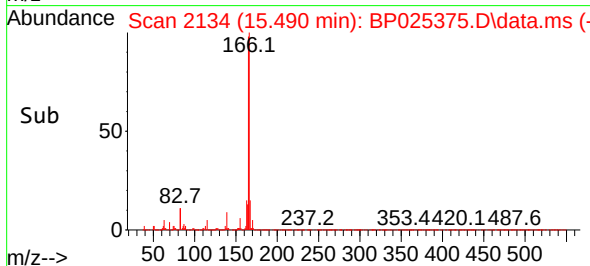
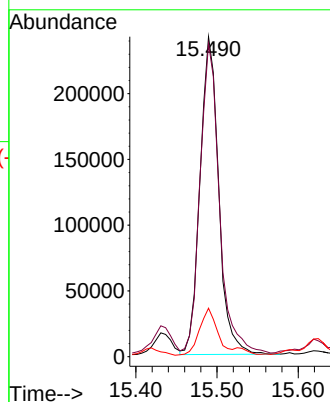
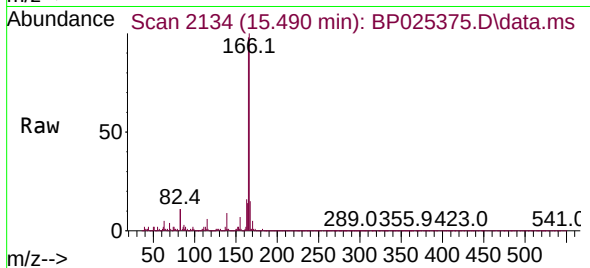
Ion	Ratio	Lower	Upper
166	100		
165	97.9	76.7	115.1
167	15.2	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/13/2025

Supervised By :Jagrut Upadhyay 08/13/2025



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.231 min Scan# 2430

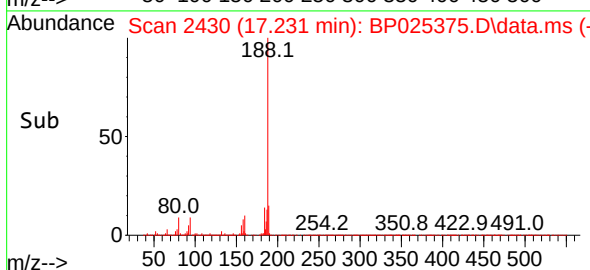
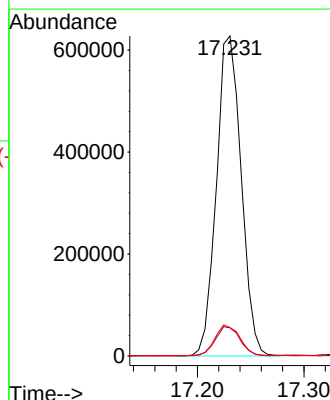
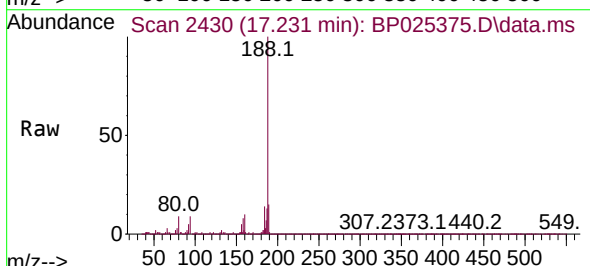
Delta R.T. 0.006 min

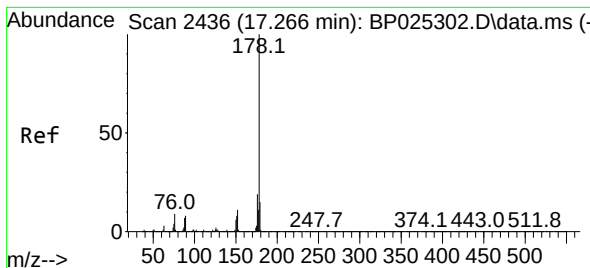
Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Tgt Ion:188 Resp: 1013611

Ion	Ratio	Lower	Upper
188	100		
94	8.8	8.0	12.0
80	8.9	8.5	12.7





#71

Phenanthrene

Concen: 44.029 ng

RT: 17.278 min Scan# 2436

Delta R.T. 0.012 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

Tgt Ion:178 Resp: 2444350

Ion Ratio Lower Upper

178 100

176 19.0 15.3 22.9

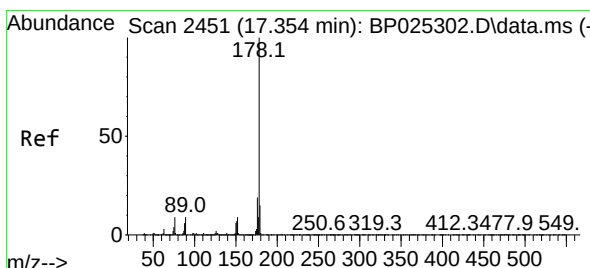
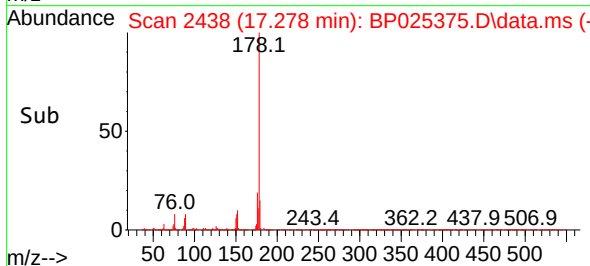
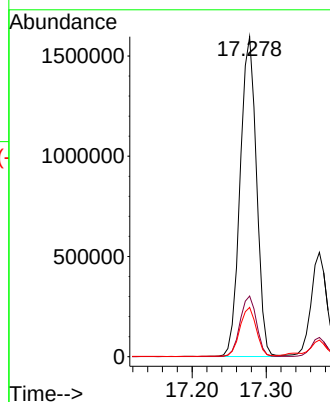
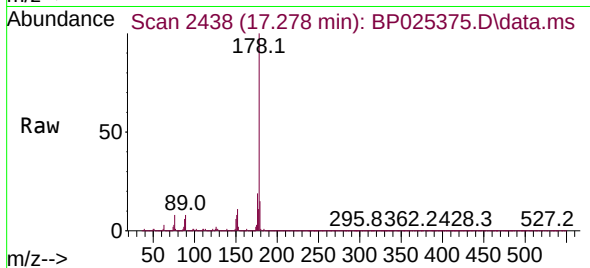
179 15.4 12.1 18.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/13/2025

Supervised By :Jagrut Upadhyay 08/13/2025



#72

Anthracene

Concen: 13.367 ng

RT: 17.372 min Scan# 2454

Delta R.T. 0.018 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

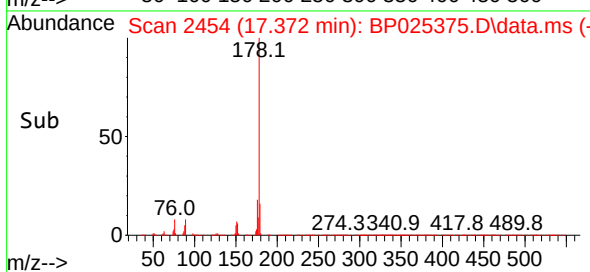
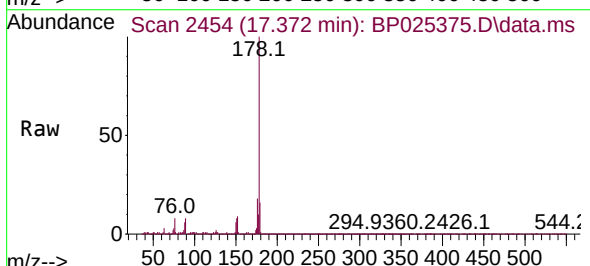
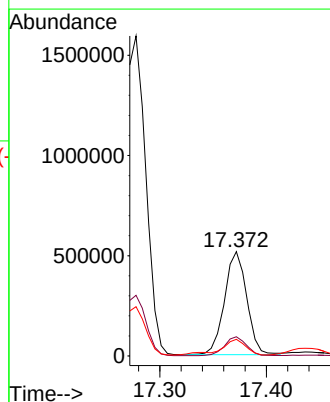
Tgt Ion:178 Resp: 748236

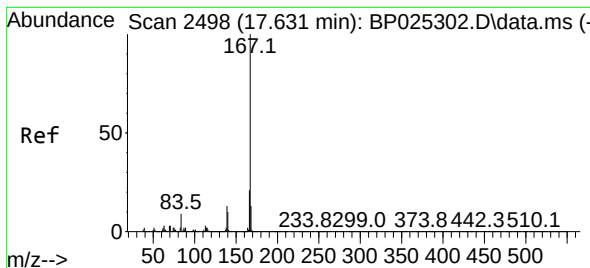
Ion Ratio Lower Upper

178 100

176 18.4 14.8 22.2

179 15.9 12.3 18.5





#73

Carbazole

Concen: 2.482 ng

RT: 17.642 min Scan# 21

Delta R.T. 0.011 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

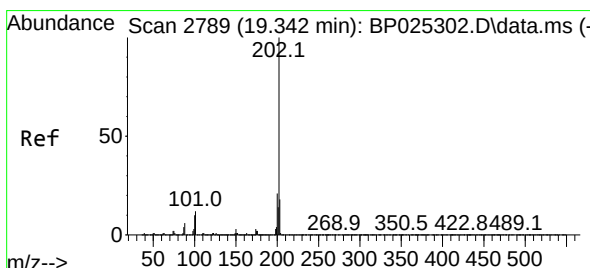
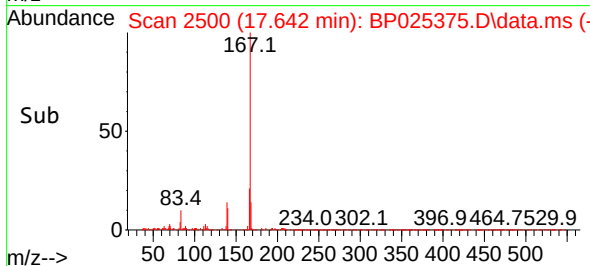
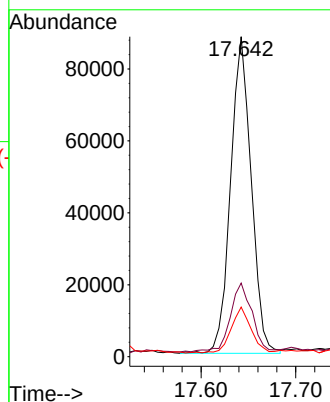
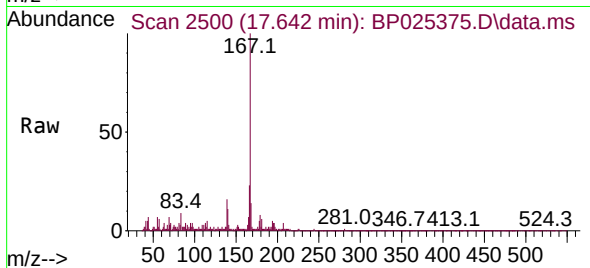
Tgt Ion:167 Resp: 133364
 Ion Ratio Lower Upper
 167 100
 166 23.0 17.0 25.6
 139 15.5 10.6 16.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/13/2025

Supervised By :Jagrut Upadhyay 08/13/2025



#75

Fluoranthene

Concen: 44.664 ng

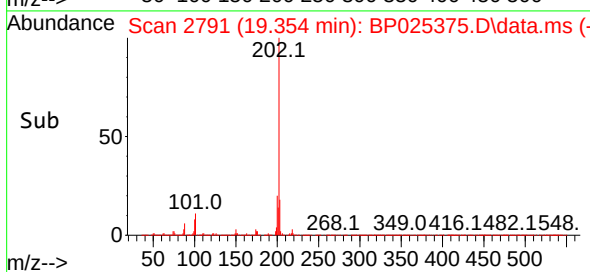
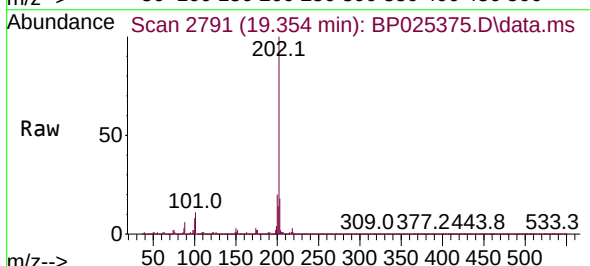
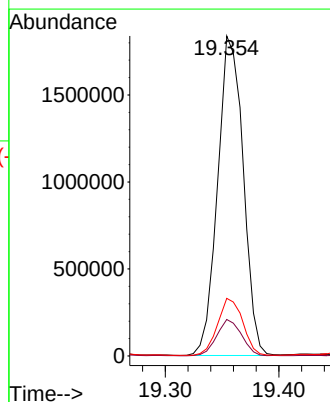
RT: 19.354 min Scan# 2791

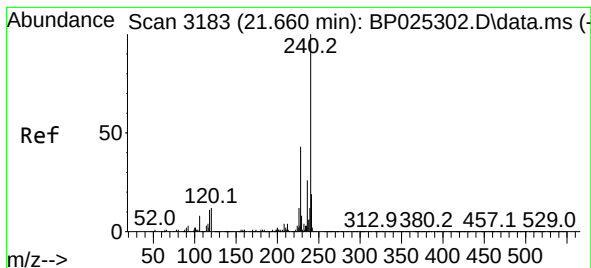
Delta R.T. 0.012 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Tgt Ion:202 Resp: 2870450
 Ion Ratio Lower Upper
 202 100
 101 11.4 0.0 32.5
 203 18.0 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.677 min Scan# 3183

Delta R.T. 0.017 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

Tgt Ion:240 Resp: 979275

Ion Ratio Lower Upper

240 100

120 11.4 9.6 14.4

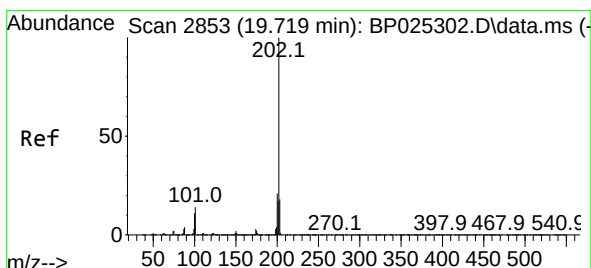
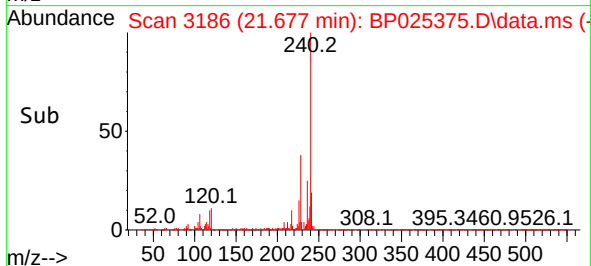
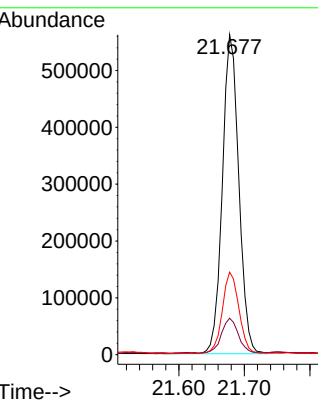
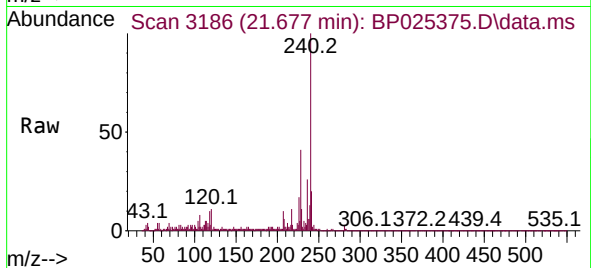
236 25.8 20.4 30.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/13/2025

Supervised By :Jagrut Upadhyay 08/13/2025



#78

Pyrene

Concen: 45.498 ng

RT: 19.736 min Scan# 2856

Delta R.T. 0.017 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

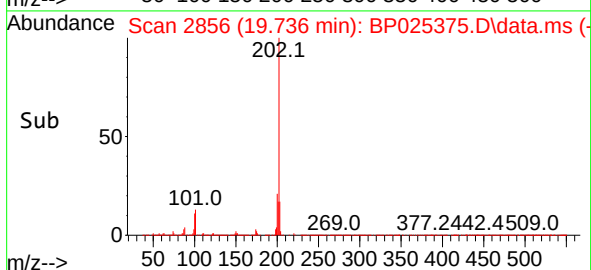
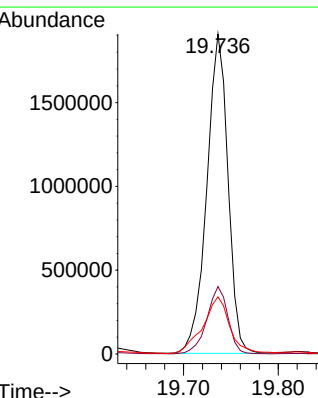
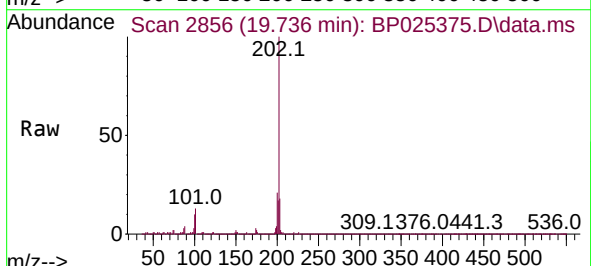
Tgt Ion:202 Resp: 2962848

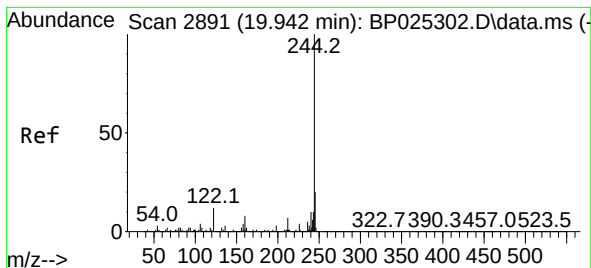
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.8 14.1 21.1





#79

Terphenyl-d14

Concen: 25.716 ng

RT: 19.948 min Scan# 21

Delta R.T. 0.006 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

Tgt Ion:244 Resp: 1333308

Ion Ratio Lower Upper

244 100

212 7.5 5.9 8.9

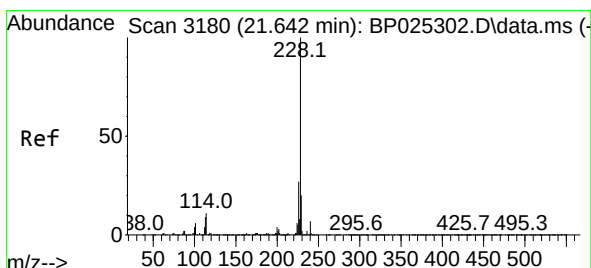
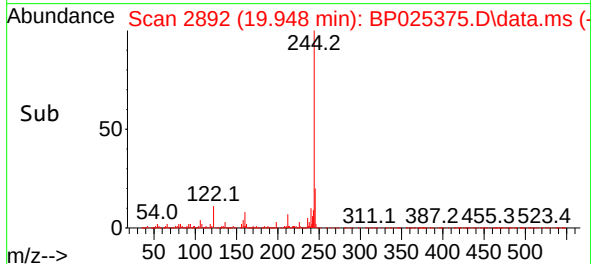
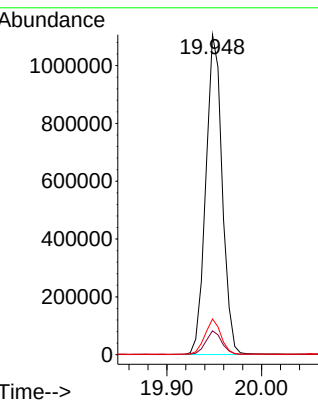
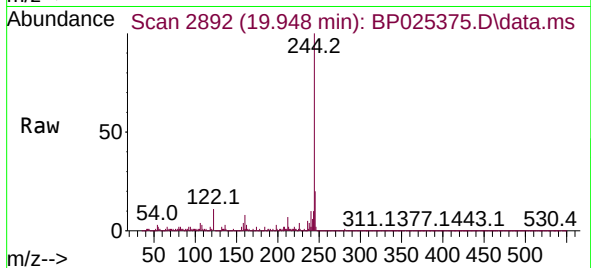
122 11.2 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/13/2025

Supervised By :Jagrut Upadhyay 08/13/2025



#81

Benzo(a)anthracene

Concen: 21.623 ng m

RT: 21.660 min Scan# 3183

Delta R.T. 0.018 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

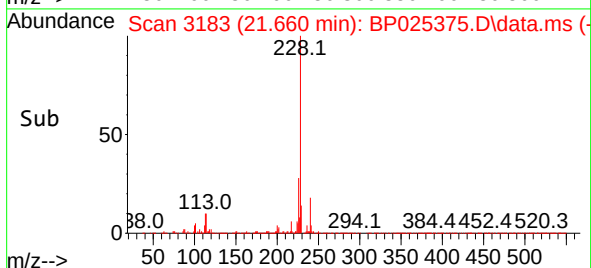
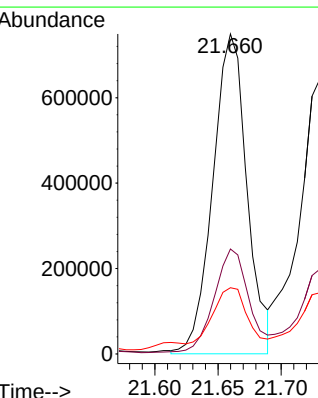
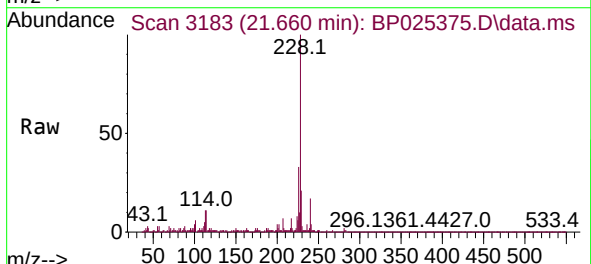
Tgt Ion:228 Resp: 1407117

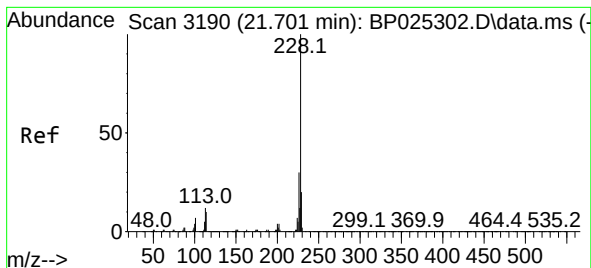
Ion Ratio Lower Upper

228 100

226 32.8 21.8 32.8#

229 20.7 16.0 24.0





#83

Chrysene

Concen: 21.424 ng

RT: 21.730 min Scan# 3195

Delta R.T. 0.029 min

Lab File: BP025375.D

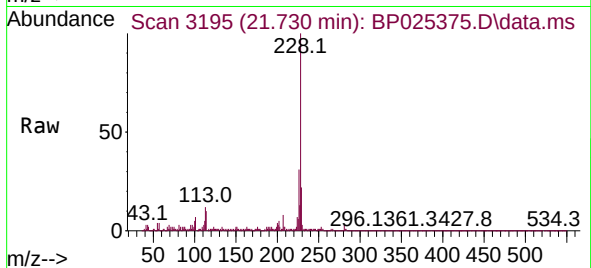
Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125



Tgt Ion:228 Resp: 129313

Ion Ratio Lower Upper

228 100

226 30.9 24.3 36.5

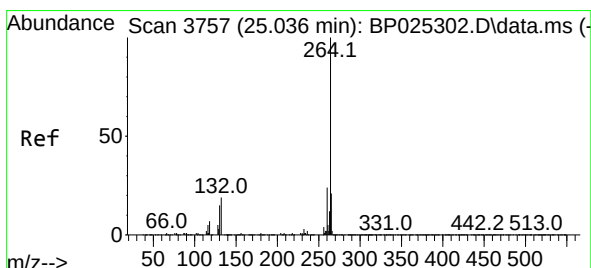
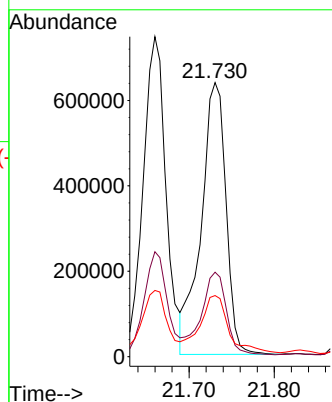
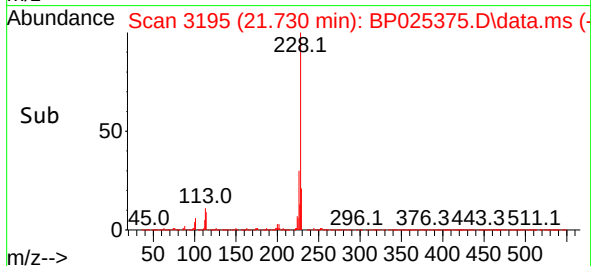
229 22.3 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/13/2025

Supervised By :Jagrut Upadhyay 08/13/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.065 min Scan# 3762

Delta R.T. 0.029 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

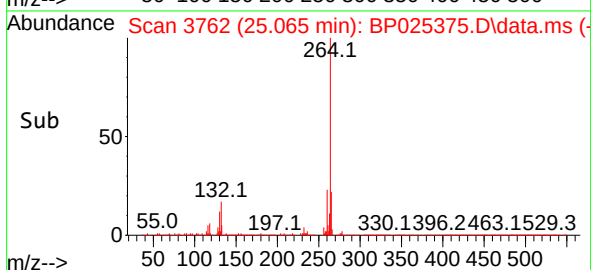
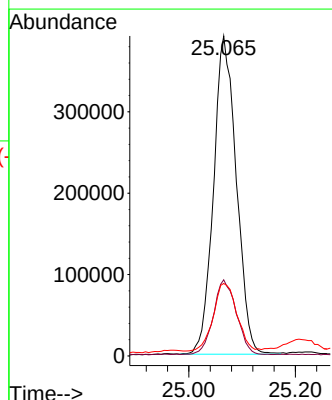
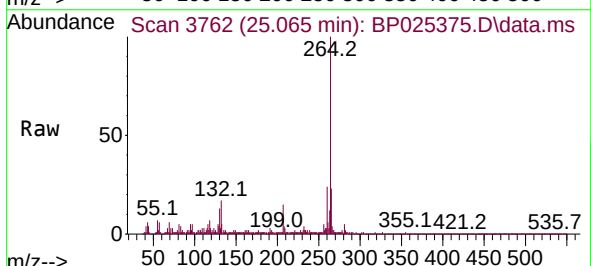
Tgt Ion:264 Resp: 1164191

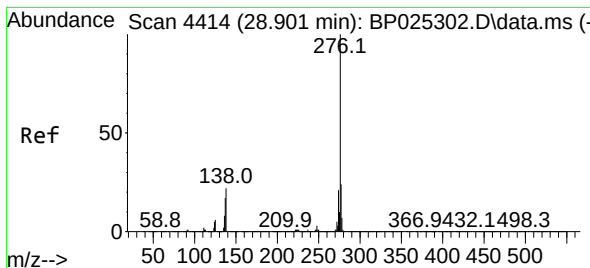
Ion Ratio Lower Upper

264 100

260 23.8 19.2 28.8

265 22.7 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.161 ng

RT: 28.948 min Scan# 4414

Delta R.T. 0.047 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

Tgt Ion:276 Resp: 76443

Ion Ratio Lower Upper

276 100

138 22.1 14.6 22.0

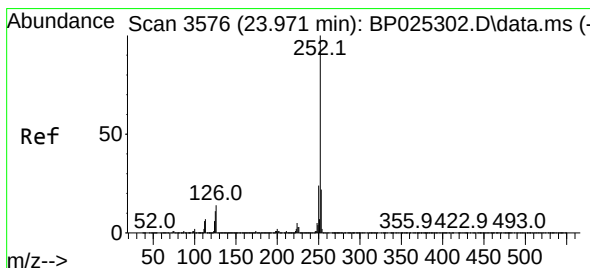
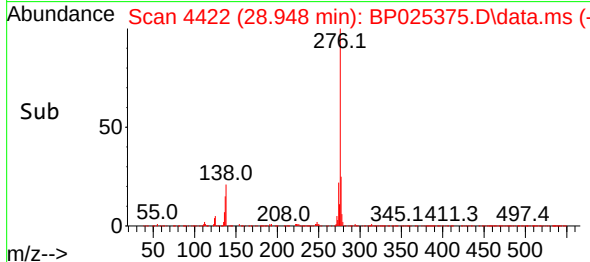
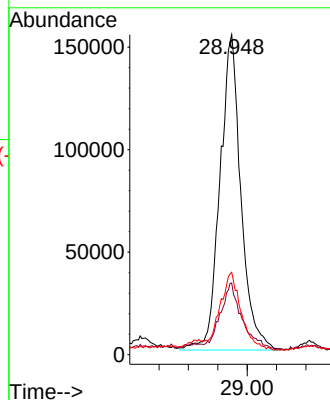
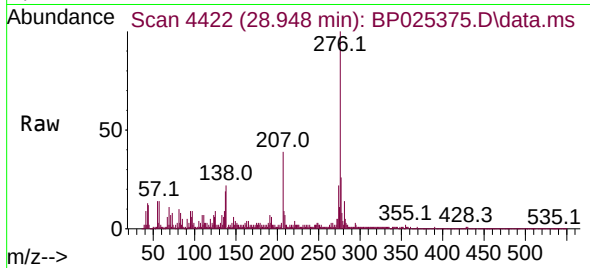
277 24.5 16.8 25.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/13/2025

Supervised By :Jagrut Upadhyay 08/13/2025



#88

Benzo(b)fluoranthene

Concen: 21.448 ng

RT: 24.001 min Scan# 3581

Delta R.T. 0.030 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

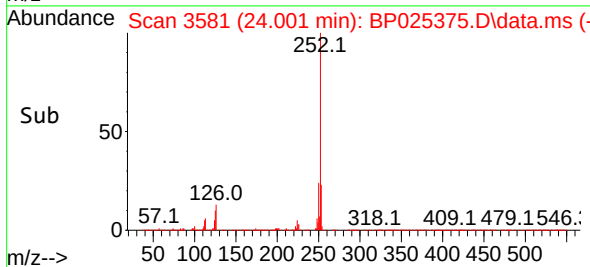
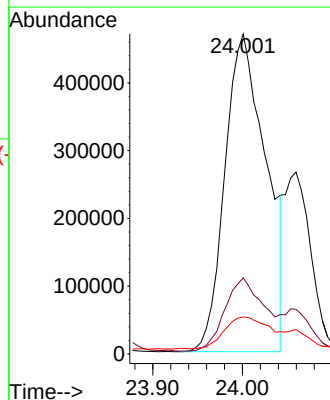
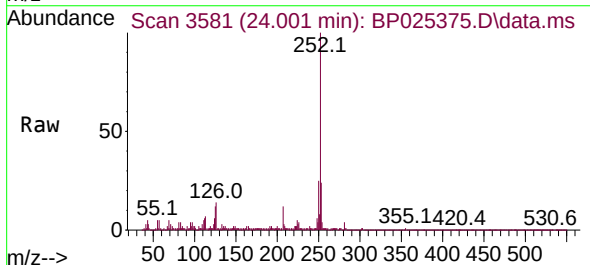
Tgt Ion:252 Resp: 1494717

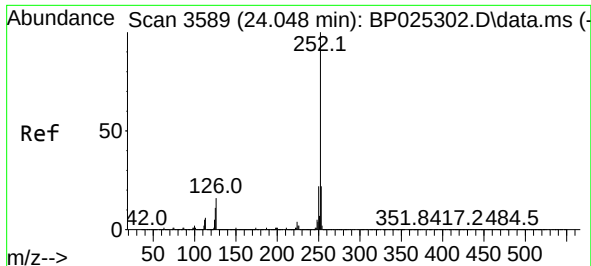
Ion Ratio Lower Upper

252 100

253 23.8 17.5 26.3

125 11.5 8.5 12.7





#89
Benzo(k)fluoranthene
Concen: 7.631 ng m
RT: 24.060 min Scan# 31
Delta R.T. 0.012 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

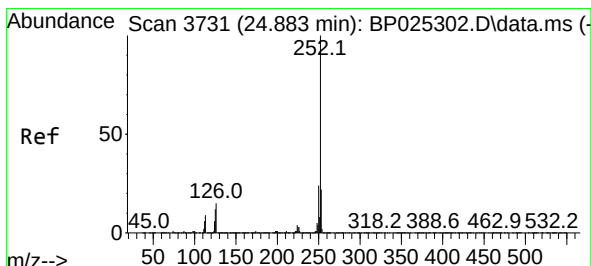
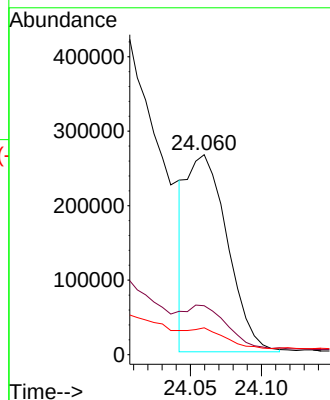
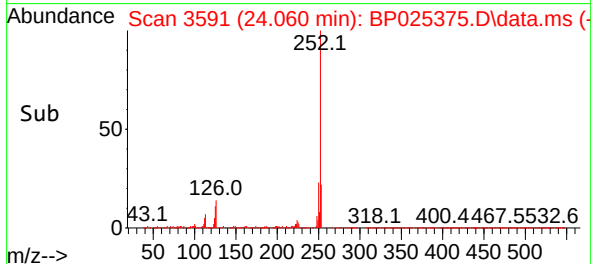
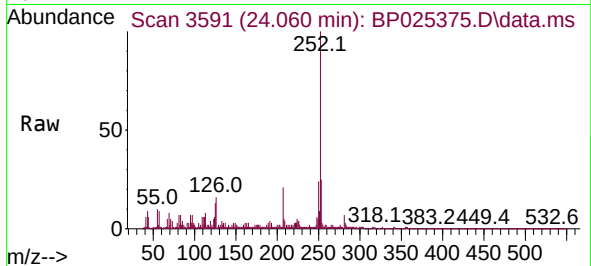
SU-04-081125

Tgt Ion:252 Resp: 52718
Ion Ratio Lower Upper
252 100
253 24.5 17.6 26.4
125 13.4 8.5 12.7

Manual Integrations

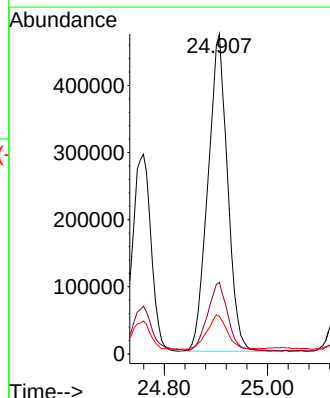
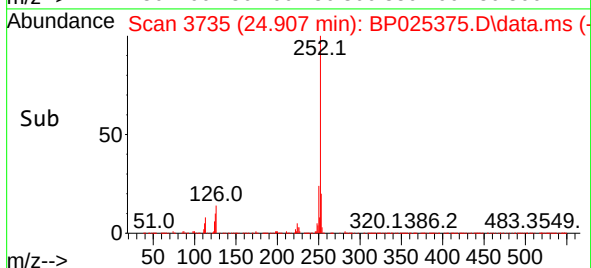
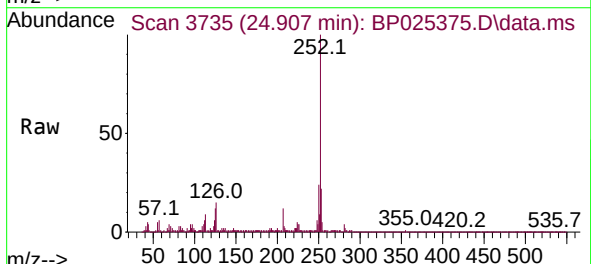
APPROVED

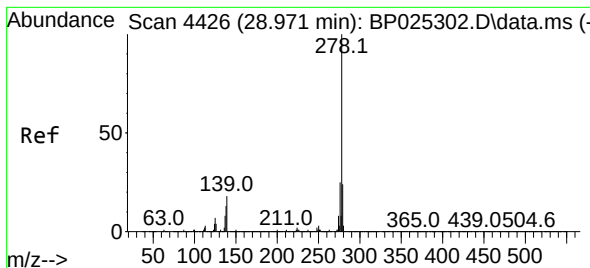
Reviewed By :Rahul Chavli 08/13/2025
Supervised By :Jagrut Upadhyay 08/13/2025



#90
Benzo(a)pyrene
Concen: 18.529 ng
RT: 24.907 min Scan# 3735
Delta R.T. 0.024 min
Lab File: BP025375.D
Acq: 12 Aug 2025 20:46

Tgt Ion:252 Resp: 1243517
Ion Ratio Lower Upper
252 100
253 22.4 17.6 26.4
125 11.8 9.4 14.0





#91

Dibenzo(a,h)anthracene

Concen: 3.138 ng

RT: 29.018 min Scan# 4426

Delta R.T. 0.047 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Instrument :

BNA_P

ClientSampleId :

SU-04-081125

Tgt Ion: 278 Resp: 21445

Ion Ratio Lower Upper

278 100

139 25.4 14.6 22.0

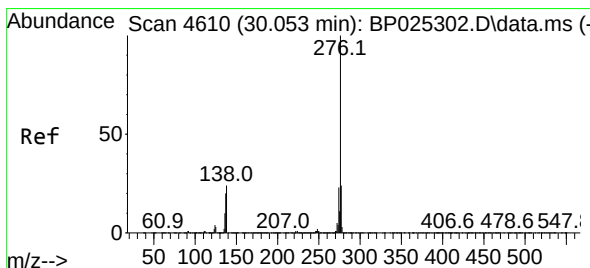
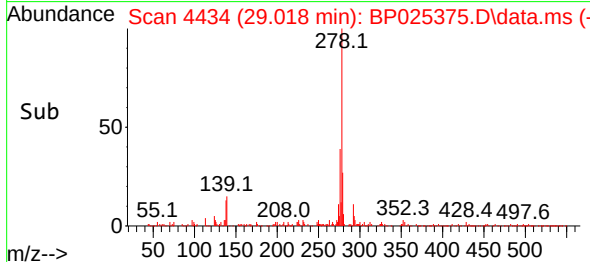
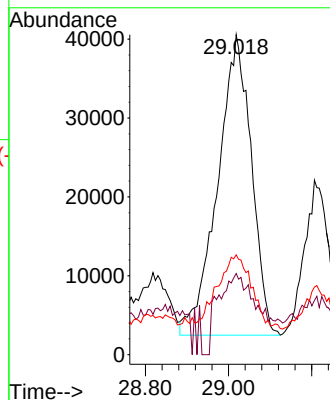
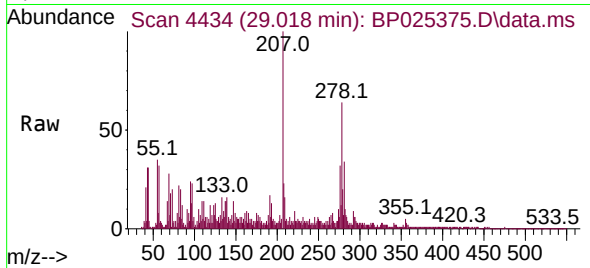
279 31.2 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/13/2025

Supervised By :Jagrut Upadhyay 08/13/2025



#92

Benzo(g,h,i)perylene

Concen: 10.321 ng

RT: 30.136 min Scan# 4624

Delta R.T. 0.083 min

Lab File: BP025375.D

Acq: 12 Aug 2025 20:46

Tgt Ion: 276 Resp: 692217

Ion Ratio Lower Upper

276 100

277 24.2 19.3 28.9

138 23.6 19.1 28.7

