

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP111325\
 Data File : BP026130.D
 Acq On : 13 Nov 2025 16:19
 Operator : RC/JU
 Sample : Q3621-02
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 VNJ-231

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 11/14/2025
 Supervised By :Sohil Jodhani 11/14/2025

Quant Time: Nov 13 16:43:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP102925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 30 11:51:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.672	152	326478	20.000	ng	-0.02
21) Naphthalene-d8	10.437	136	1335430	20.000	ng	-0.02
39) Acenaphthene-d10	14.313	164	850727	20.000	ng	0.00
64) Phenanthrene-d10	17.130	188	1701913	20.000	ng	0.00
76) Chrysene-d12	21.571	240	1715968	20.000	ng	0.00
86) Perylene-d12	24.901	264	1947610	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.296	112	1672322	84.523	ng	0.00
7) Phenol-d6	6.849	99	2127277	84.473	ng	0.00
23) Nitrobenzene-d5	8.807	82	1223447	57.112	ng	-0.02
42) 2,4,6-Tribromophenol	15.836	330	883161	96.025	ng	0.00
45) 2-Fluorobiphenyl	12.925	172	3117300	52.653	ng	0.00
79) Terphenyl-d14	19.866	244	4682984	55.446	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	14.031	152	183076	2.451	ng	99
58) Fluorene	15.384	166	129721	2.137	ng	98
71) Phenanthrene	17.172	178	2328843	23.509	ng	100
72) Anthracene	17.266	178	385892	3.930	ng	99
73) Carbazole	17.536	167	252130	2.713	ng	100
75) Fluoranthene	19.260	202	4164866	36.042	ng	98
78) Pyrene	19.630	202	4012998	34.577	ng	99
81) Benzo(a)anthracene	21.554	228	1860583	15.779	ng	97
83) Chrysene	21.618	228	2300372	20.594	ng	98
84) Bis(2-ethylhexyl)phtha...	21.518	149	55001	3.349	ng	99
87) Indeno(1,2,3-cd)pyrene	28.659	276	1328842	9.242	ng	# 89
88) Benzo(b)fluoranthene	23.842	252	3393266	28.065	ng	98
89) Benzo(k)fluoranthene	23.912	252	1030251	8.344	ng	97
90) Benzo(a)pyrene	24.736	252	1918413	17.271	ng	99
91) Dibenzo(a,h)anthracene	28.736	278	333229m	2.848	ng	
92) Benzo(g,h,i)perylene	29.824	276	1253381	11.131	ng	99

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

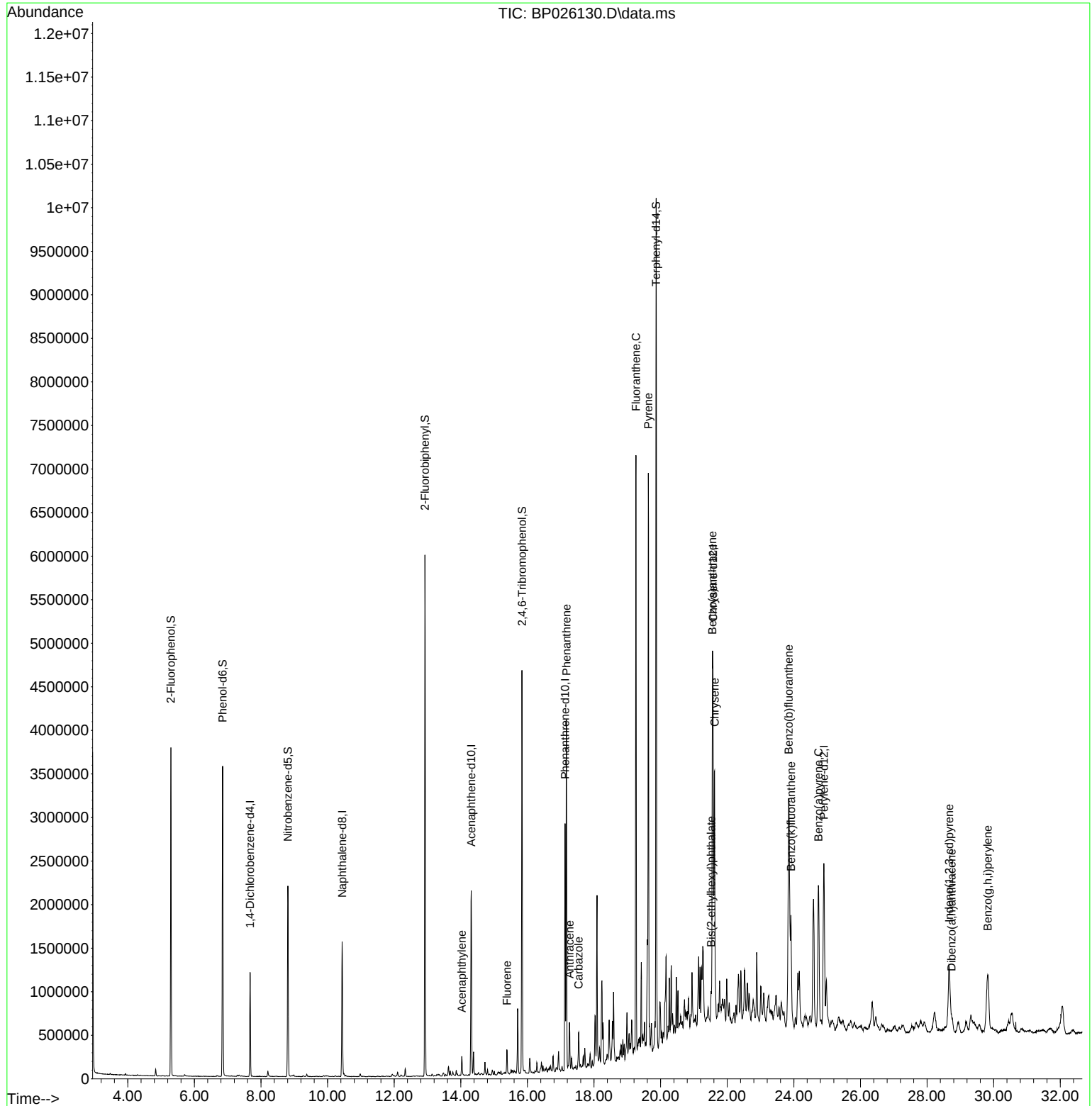
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP111325\
Data File : BP026130.D
Acq On : 13 Nov 2025 16:19
Operator : RC/JU
Sample : Q3621-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

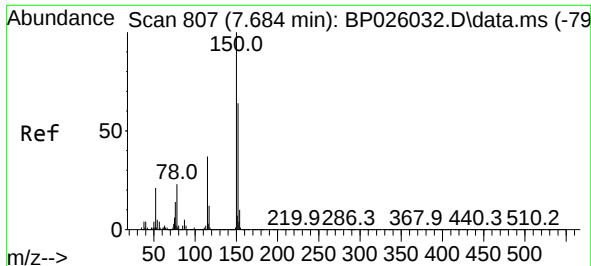
Instrument :
BNA_P
ClientSampleId :
VNJ-231

Quant Time: Nov 13 16:43:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP102925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 30 11:51:34 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025





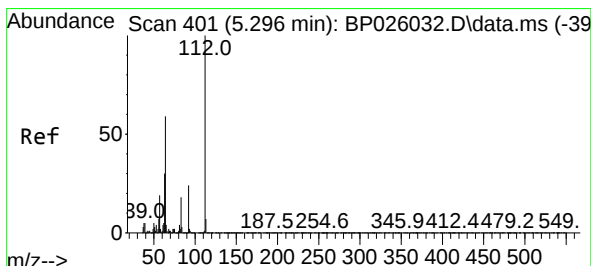
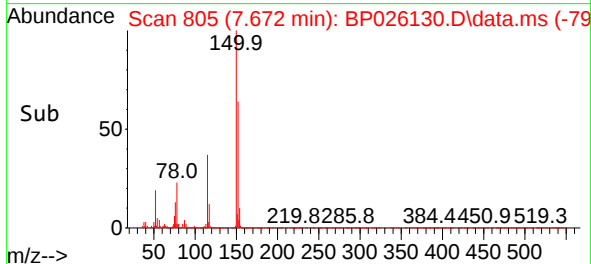
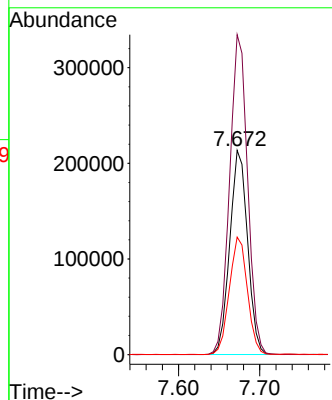
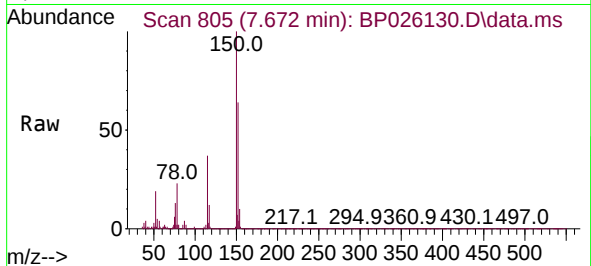
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.672 min Scan# 807
Delta R.T. -0.018 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

Instrument :
BNA_P
ClientSampleId :
VNJ-231

Tgt Ion:152 Resp: 326478
Ion Ratio Lower Upper
152 100
150 156.7 125.7 188.5
115 57.5 46.4 69.6

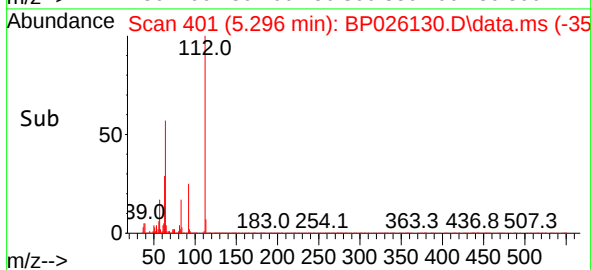
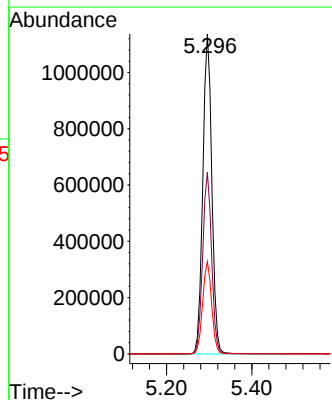
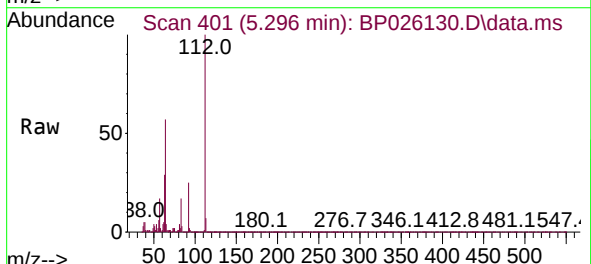
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025



#5
2-Fluorophenol
Concen: 84.523 ng
RT: 5.296 min Scan# 401
Delta R.T. 0.000 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

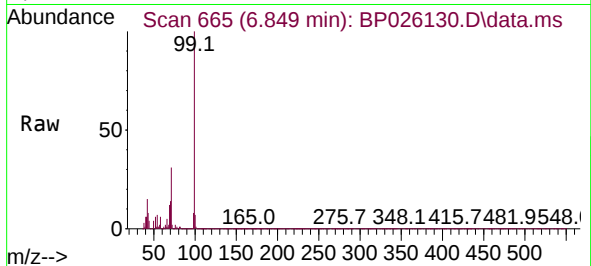
Tgt Ion:112 Resp: 1672322
Ion Ratio Lower Upper
112 100
64 56.7 47.4 71.2
63 28.9 24.2 36.4





#7
Phenol-d6
Concen: 84.473 ng
RT: 6.849 min Scan# 60
Delta R.T. -0.006 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

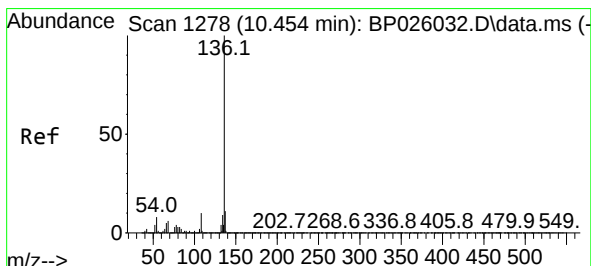
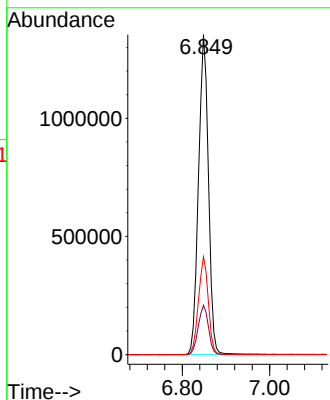
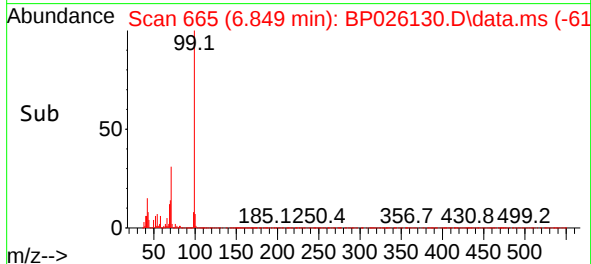
Instrument :
BNA_P
ClientSampleId :
VNJ-231



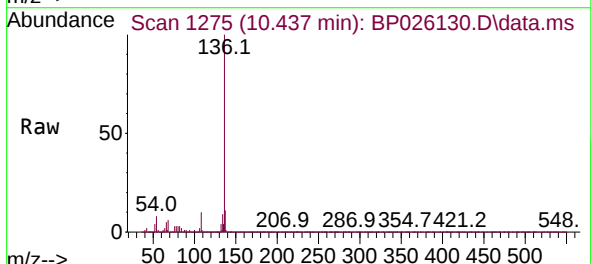
Tgt Ion: 99 Resp: 212727
Ion Ratio Lower Upper
99 100
42 15.4 13.7 20.5
71 30.6 24.4 36.6

Manual Integrations
APPROVED

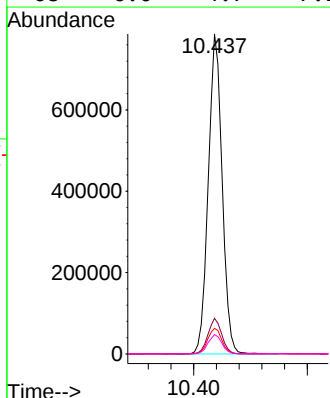
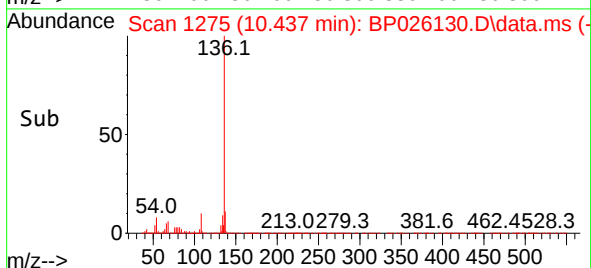
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025

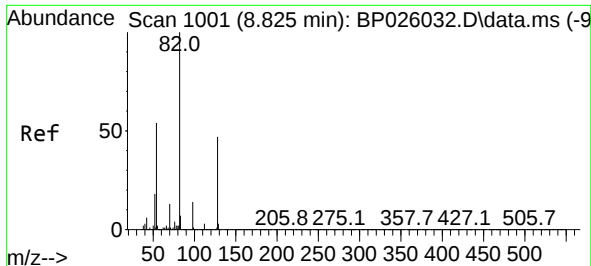


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.437 min Scan# 1275
Delta R.T. -0.017 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19



Tgt Ion:136 Resp: 1335430
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 8.0 6.6 10.0
68 6.0 4.7 7.1





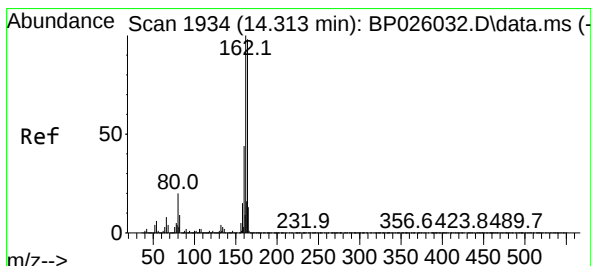
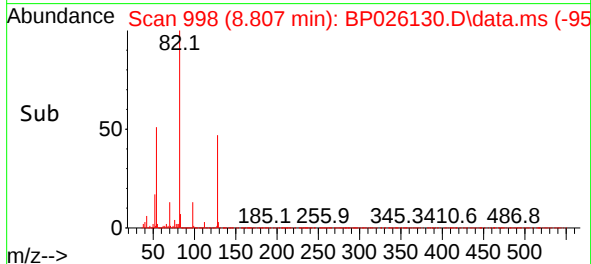
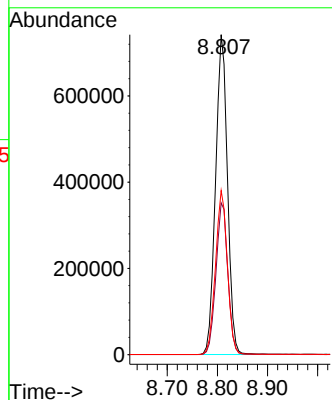
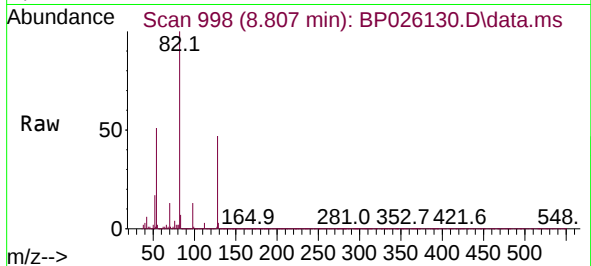
#23
Nitrobenzene-d5
Concen: 57.112 ng
RT: 8.807 min Scan# 998
Delta R.T. -0.018 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

Instrument :
BNA_P
ClientSampleId :
VNJ-231

Tgt Ion: 82 Resp: 122344
Ion Ratio Lower Upper
82 100
128 47.4 37.4 56.0
54 51.3 42.7 64.1

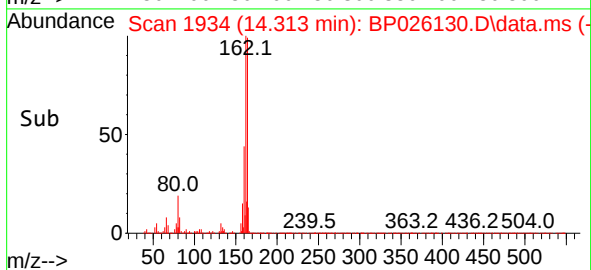
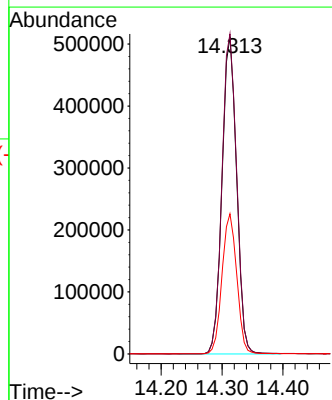
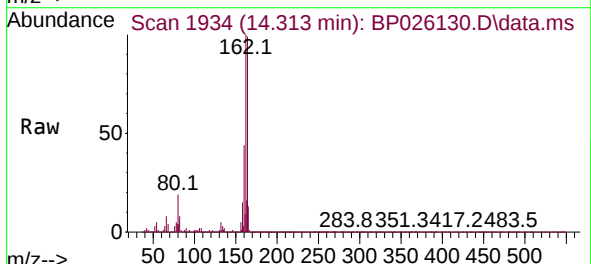
Manual Integrations
APPROVED

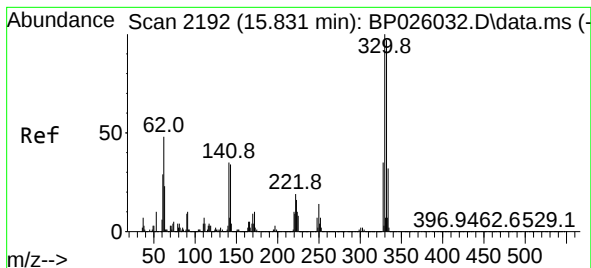
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.313 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

Tgt Ion:164 Resp: 850727
Ion Ratio Lower Upper
164 100
162 100.8 81.5 122.3
160 44.1 36.2 54.4





#42

2,4,6-Tribromophenol

Concen: 96.025 ng

RT: 15.836 min Scan# 21

Delta R.T. 0.006 min

Lab File: BP026130.D

Acq: 13 Nov 2025 16:19

Instrument :

BNA_P

ClientSampleId :

VNJ-231

Tgt Ion:330 Resp: 88316

Ion Ratio Lower Upper

330 100

332 96.9 77.3 115.9

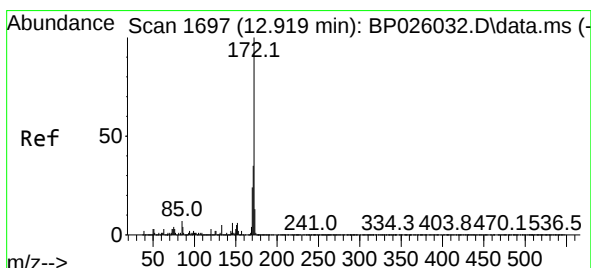
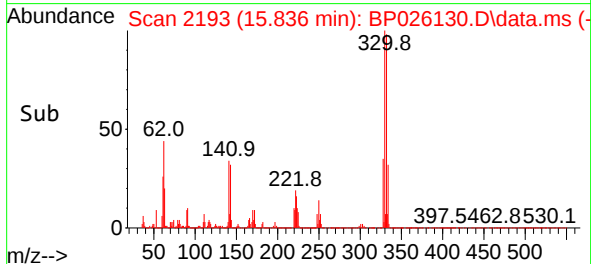
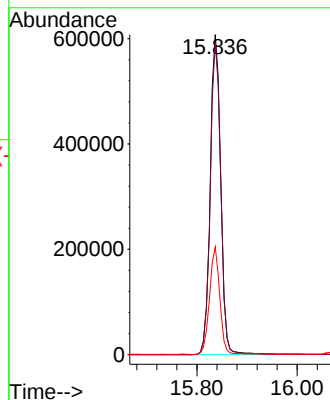
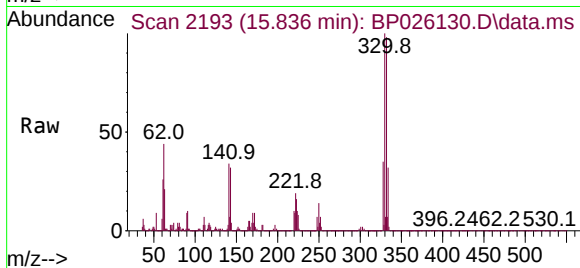
141 32.6 28.6 42.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025



#45

2-Fluorobiphenyl

Concen: 52.653 ng

RT: 12.925 min Scan# 1698

Delta R.T. -0.006 min

Lab File: BP026130.D

Acq: 13 Nov 2025 16:19

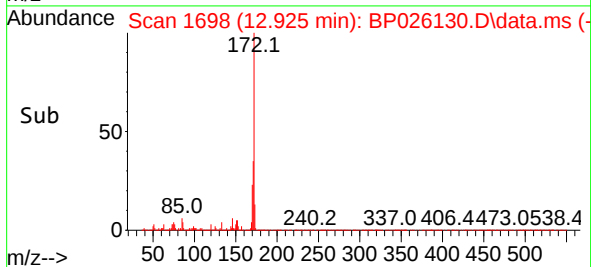
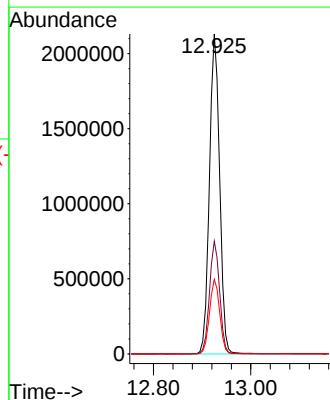
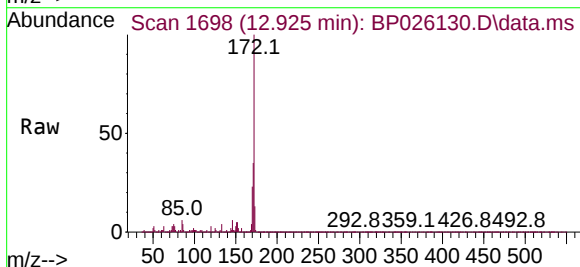
Tgt Ion:172 Resp: 3117300

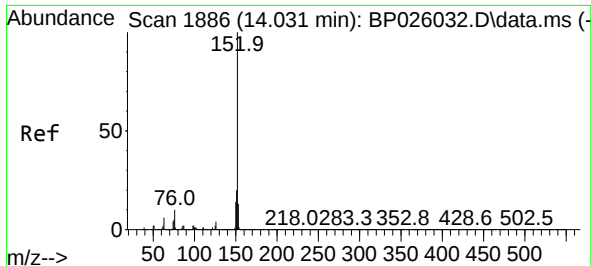
Ion Ratio Lower Upper

172 100

171 35.2 27.9 41.9

170 23.3 19.0 28.4





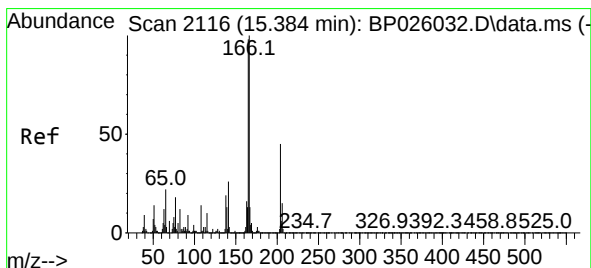
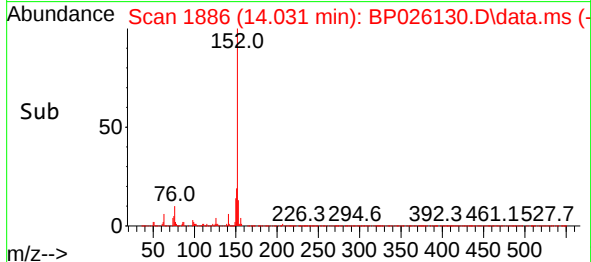
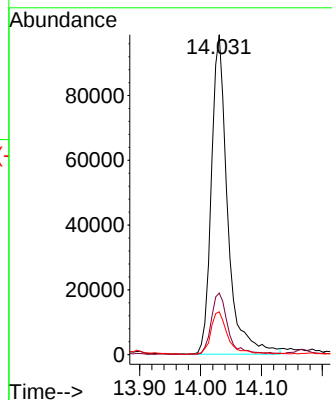
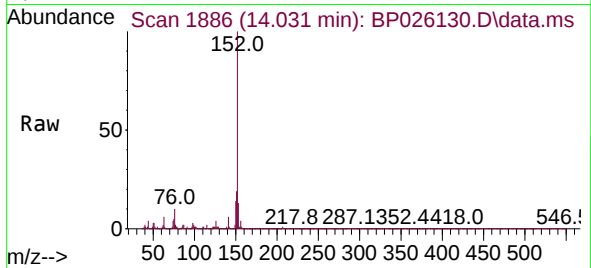
#49
Acenaphthylene
Concen: 2.451 ng
RT: 14.031 min Scan# 1886
Delta R.T. -0.005 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

Instrument :
BNA_P
ClientSampleId :
VNJ-231

Tgt Ion:152 Resp: 183076
Ion Ratio Lower Upper
152 100
151 19.2 15.9 23.9
153 13.4 10.6 16.0

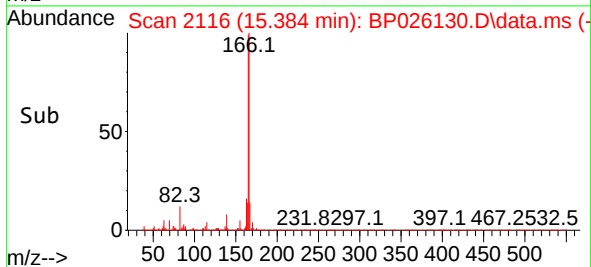
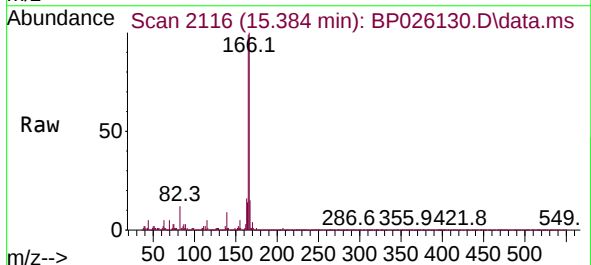
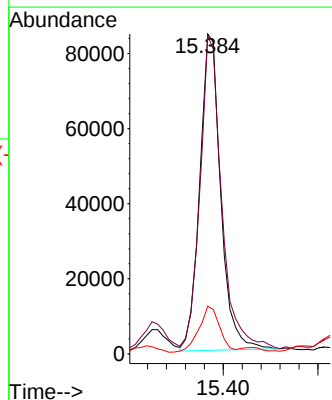
Manual Integrations
APPROVED

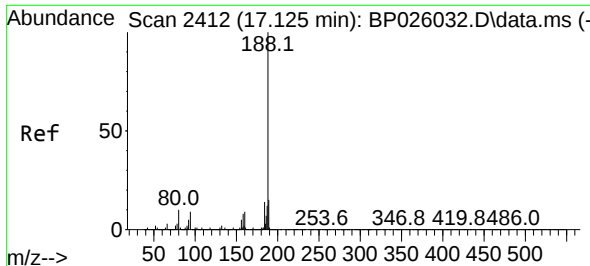
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025



#58
Fluorene
Concen: 2.137 ng
RT: 15.384 min Scan# 2116
Delta R.T. 0.001 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

Tgt Ion:166 Resp: 129721
Ion Ratio Lower Upper
166 100
165 99.4 78.1 117.1
167 14.9 10.6 16.0





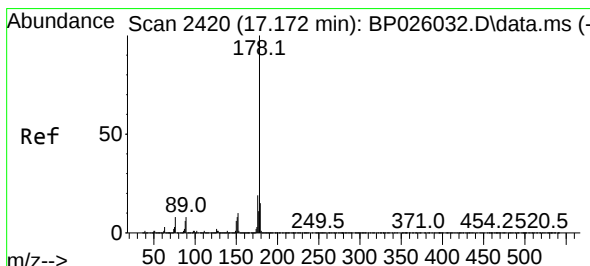
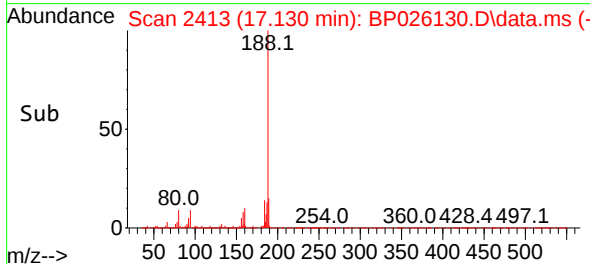
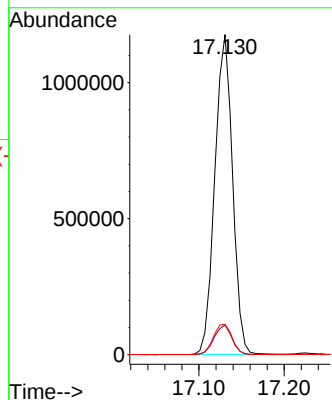
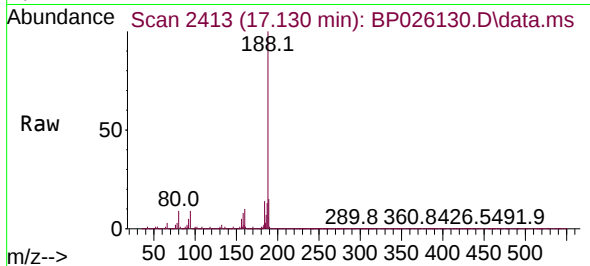
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.130 min Scan# 2413
Delta R.T. 0.006 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

Instrument :
BNA_P
ClientSampleId :
VNJ-231

Tgt Ion:188 Resp: 1701913
Ion Ratio Lower Upper
188 100
94 9.3 7.1 10.7
80 9.5 7.9 11.9

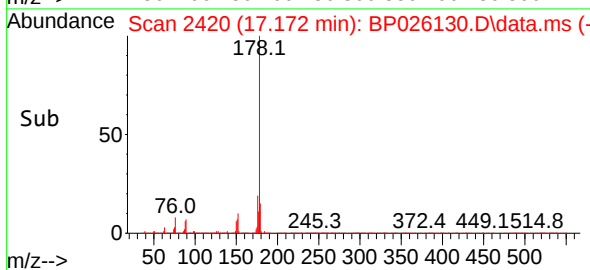
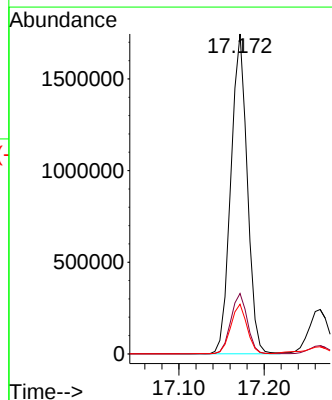
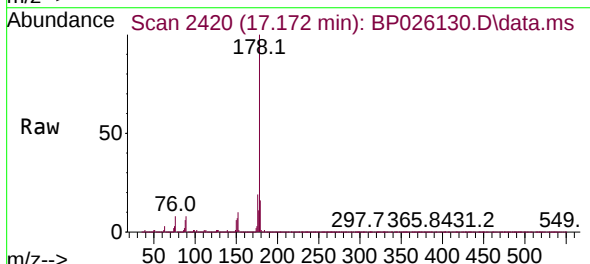
Manual Integrations
APPROVED

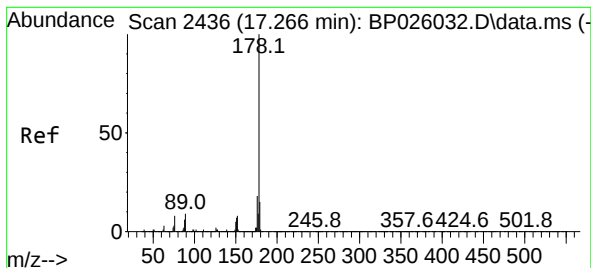
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025



#71
Phenanthrene
Concen: 23.509 ng
RT: 17.172 min Scan# 2420
Delta R.T. 0.000 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

Tgt Ion:178 Resp: 2328843
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.5 12.3 18.5





#72

Anthracene

Concen: 3.930 ng

RT: 17.266 min Scan# 2436

Delta R.T. 0.006 min

Lab File: BP026130.D

Acq: 13 Nov 2025 16:19

Instrument :

BNA_P

ClientSampleId :

VNJ-231

Tgt Ion:178 Resp: 385892

Ion Ratio Lower Upper

178 100

176 18.7 14.8 22.2

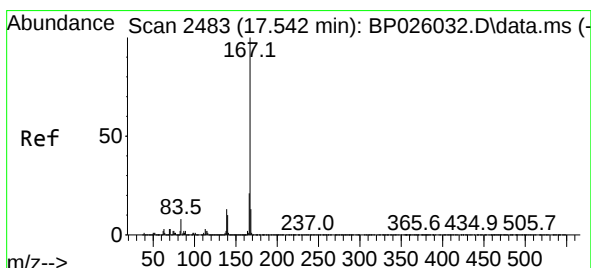
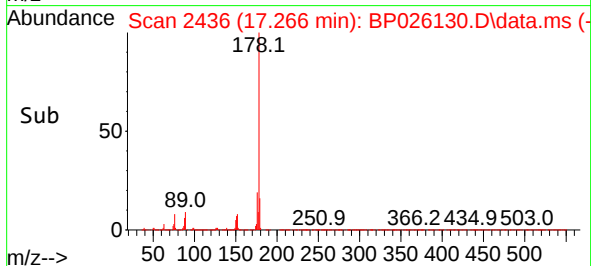
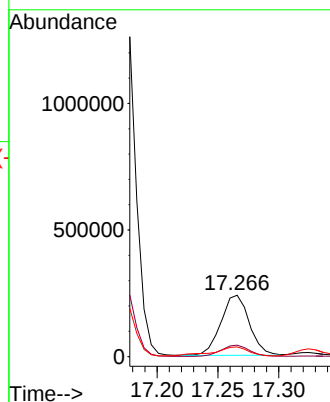
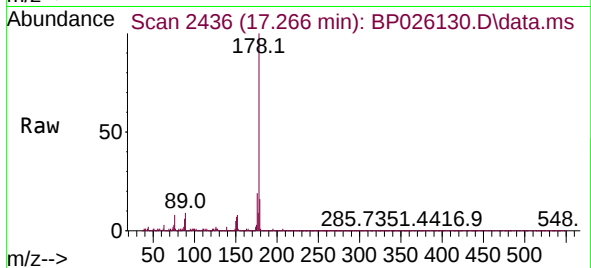
179 15.9 12.2 18.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025



#73

Carbazole

Concen: 2.713 ng

RT: 17.536 min Scan# 2482

Delta R.T. 0.000 min

Lab File: BP026130.D

Acq: 13 Nov 2025 16:19

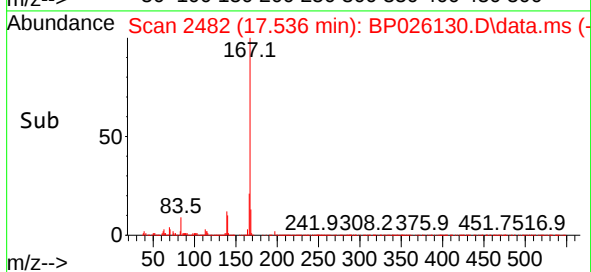
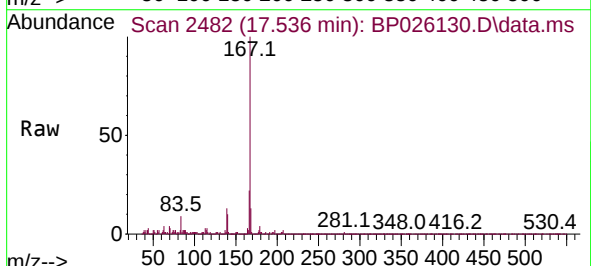
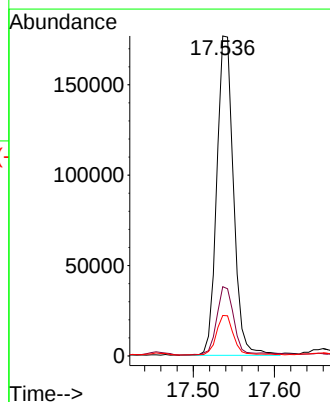
Tgt Ion:167 Resp: 252130

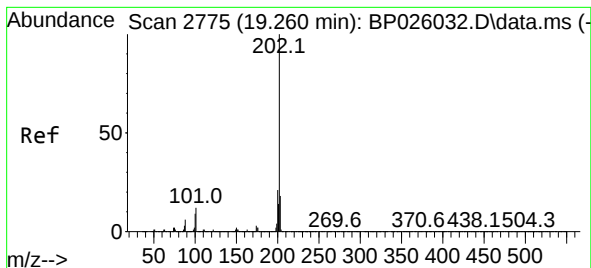
Ion Ratio Lower Upper

167 100

166 21.6 17.1 25.7

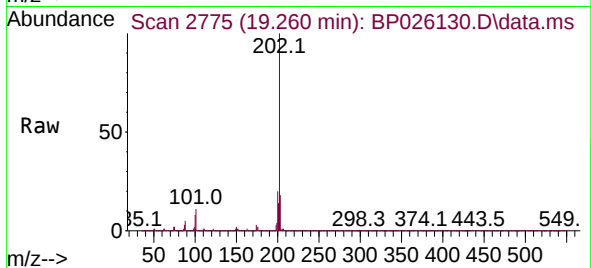
139 12.6 10.2 15.2





#75
Fluoranthene
Concen: 36.042 ng
RT: 19.260 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

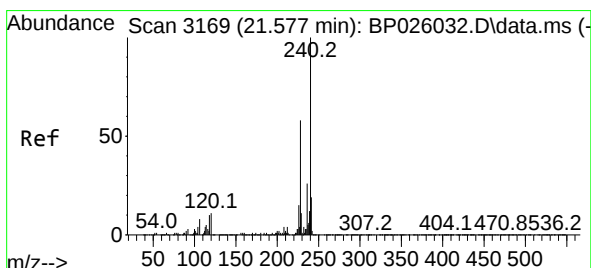
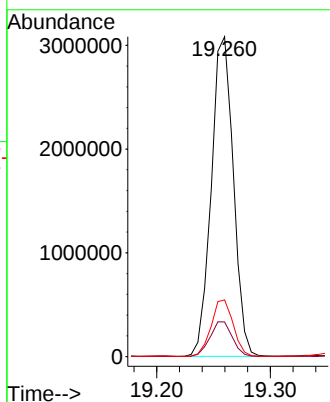
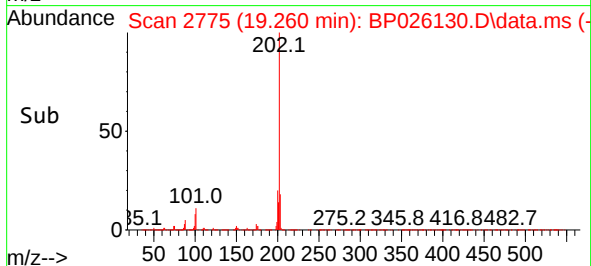
Instrument :
BNA_P
ClientSampleId :
VNJ-231



Tgt Ion:202 Resp: 4164866
Ion Ratio Lower Upper
202 100
101 10.8 0.0 32.1
203 17.7 0.0 37.6

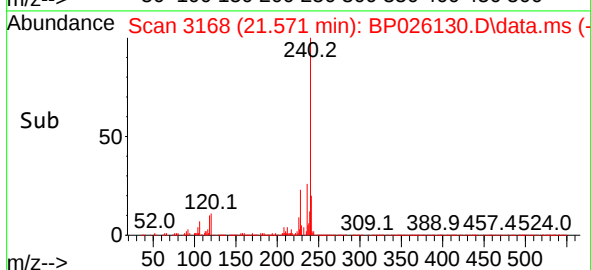
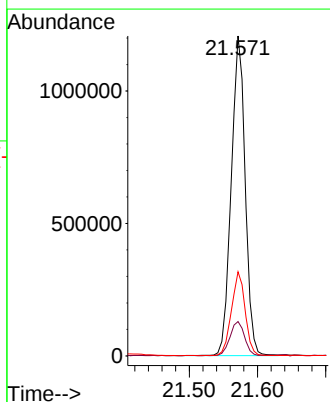
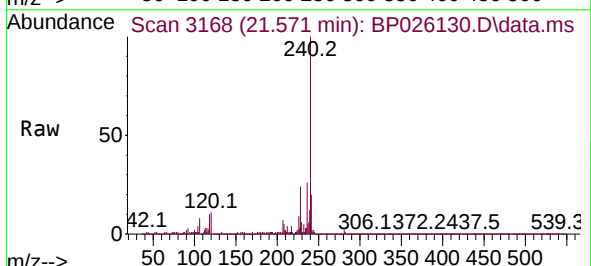
Manual Integrations
APPROVED

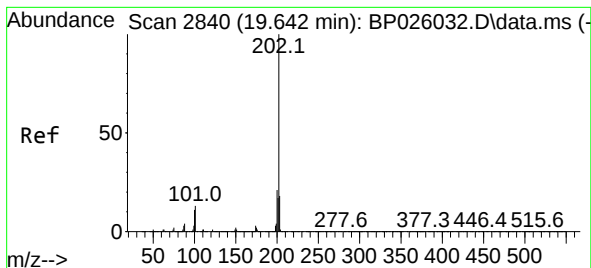
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.571 min Scan# 3168
Delta R.T. 0.006 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

Tgt Ion:240 Resp: 1715968
Ion Ratio Lower Upper
240 100
120 10.7 8.9 13.3
236 26.3 20.6 31.0





#78

Pyrene

Concen: 34.577 ng

RT: 19.630 min Scan# 2838

Delta R.T. -0.006 min

Lab File: BP026130.D

Acq: 13 Nov 2025 16:19

Instrument :

BNA_P

ClientSampleId :

VNJ-231

Tgt Ion:202 Resp: 4012998

Ion Ratio Lower Upper

202 100

200 21.1 16.6 25.0

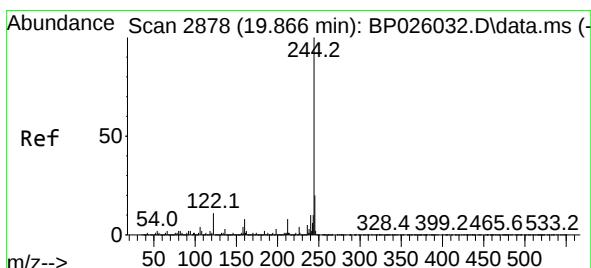
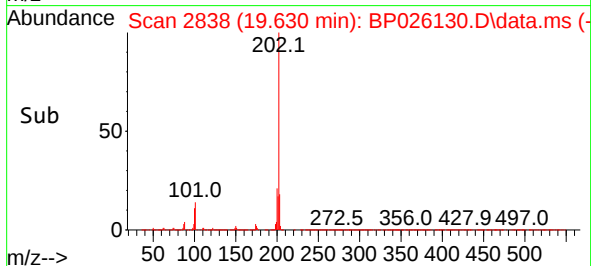
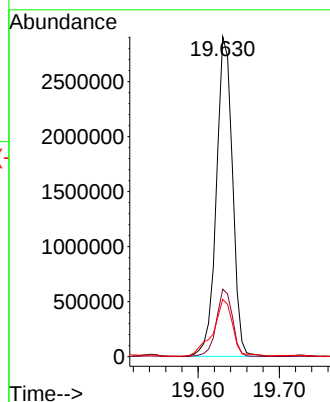
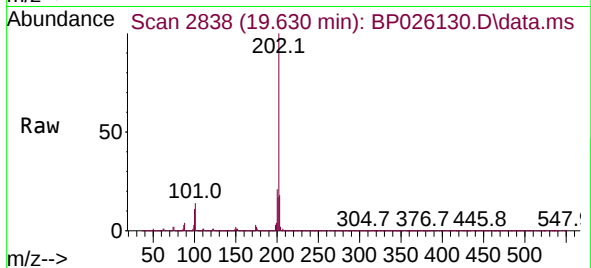
203 17.9 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025



#79

Terphenyl-d14

Concen: 55.446 ng

RT: 19.866 min Scan# 2878

Delta R.T. 0.000 min

Lab File: BP026130.D

Acq: 13 Nov 2025 16:19

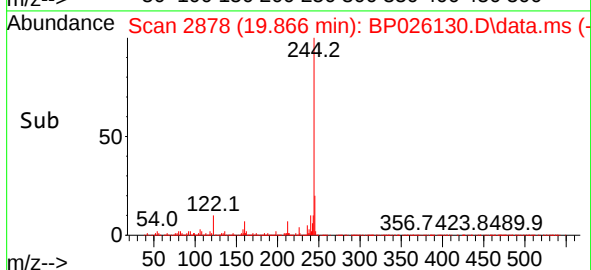
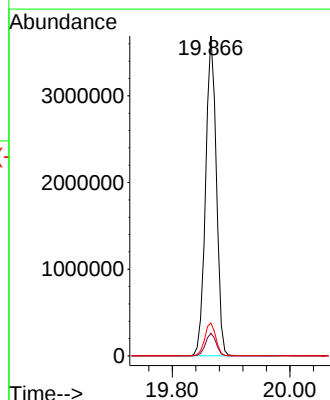
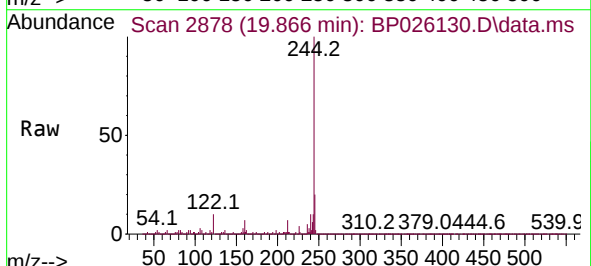
Tgt Ion:244 Resp: 4682984

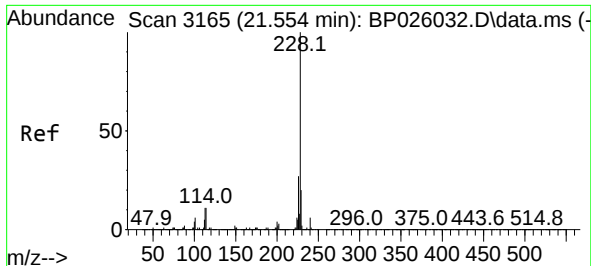
Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

122 10.3 9.0 13.6





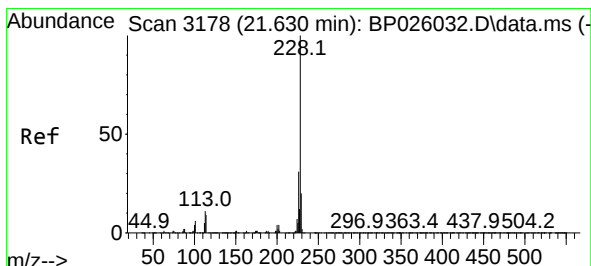
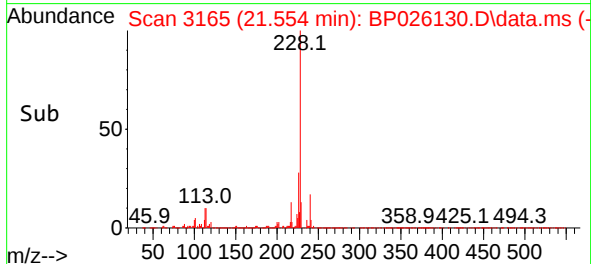
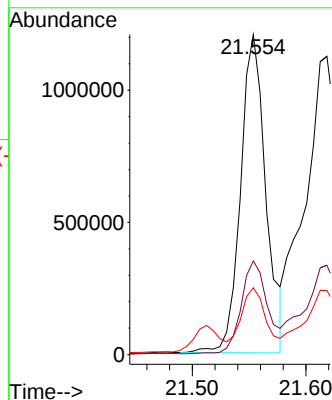
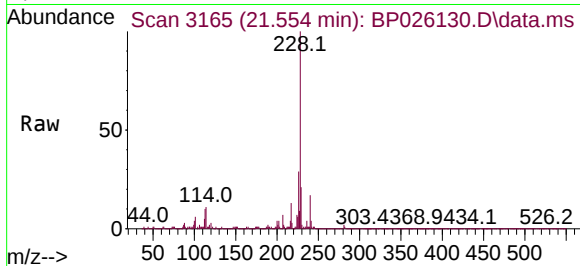
#81
Benzo(a)anthracene
Concen: 15.779 ng
RT: 21.554 min Scan# 3165
Delta R.T. 0.006 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

Instrument :
BNA_P
ClientSampleId :
VNJ-231

Tgt Ion:228 Resp: 1860583
Ion Ratio Lower Upper
228 100
226 29.3 21.7 32.5
229 20.9 15.8 23.8

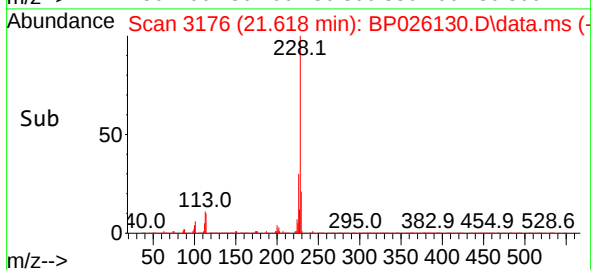
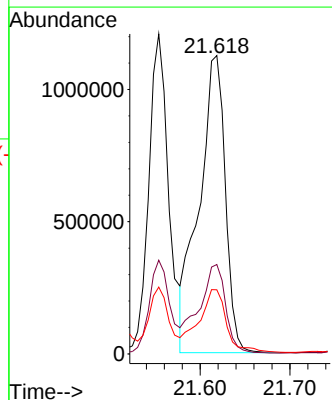
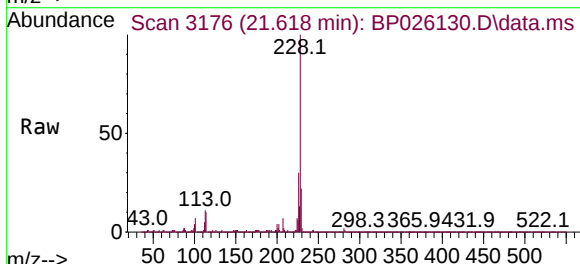
Manual Integrations
APPROVED

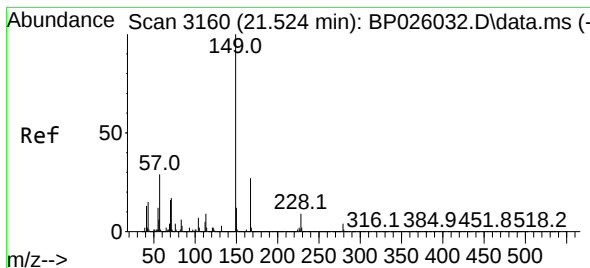
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025



#83
Chrysene
Concen: 20.594 ng
RT: 21.618 min Scan# 3176
Delta R.T. 0.000 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

Tgt Ion:228 Resp: 2300372
Ion Ratio Lower Upper
228 100
226 30.0 24.4 36.6
229 21.5 16.0 24.0





#84

Bis(2-ethylhexyl)phthalate

Concen: 3.349 ng

RT: 21.518 min Scan# 3160

Delta R.T. 0.000 min

Lab File: BP026130.D

Acq: 13 Nov 2025 16:19

Instrument :

BNA_P

ClientSampleId :

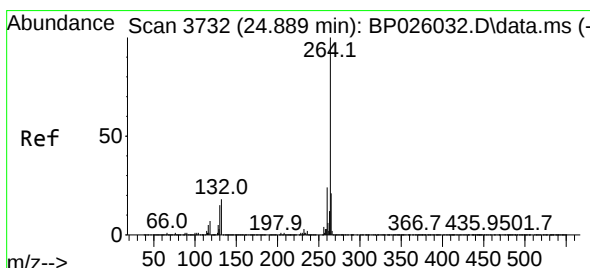
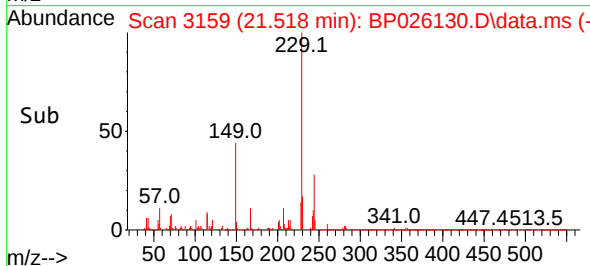
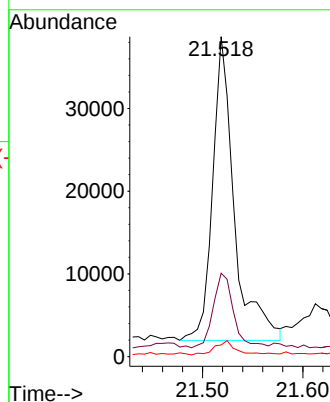
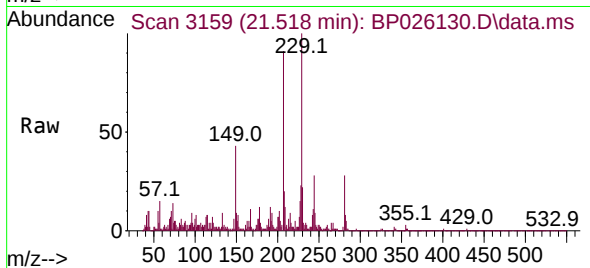
VNJ-231

Tgt Ion:149	Resp: 5500
Ion Ratio	Lower Upper
149 100	
167 26.1	21.5 32.3
279 3.6	3.0 4.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025



#86

Perylene-d12

Concen: 20.000 ng

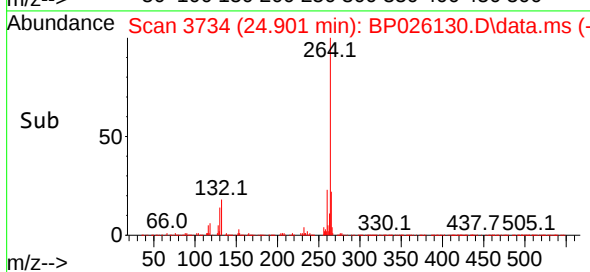
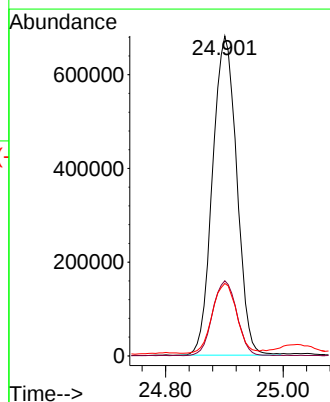
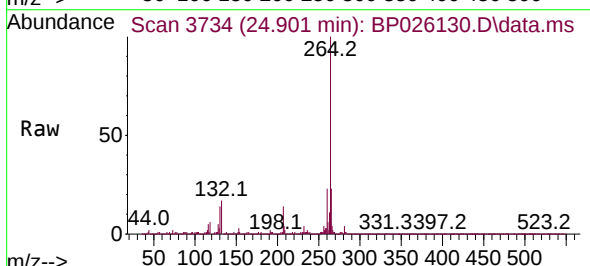
RT: 24.901 min Scan# 3734

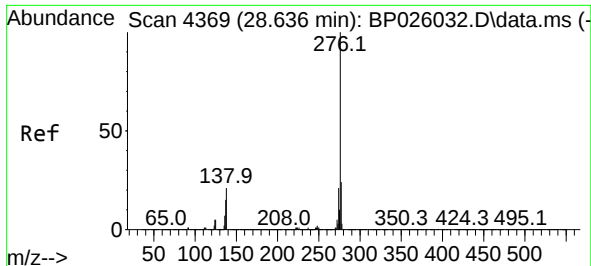
Delta R.T. 0.018 min

Lab File: BP026130.D

Acq: 13 Nov 2025 16:19

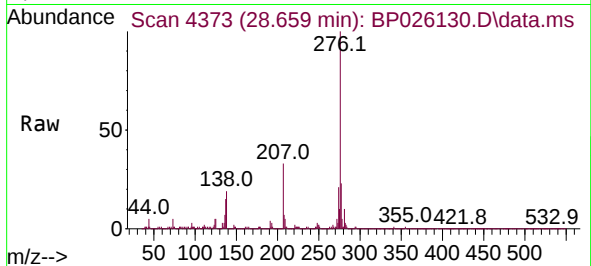
Tgt Ion:264	Resp: 1947610
Ion Ratio	Lower Upper
264 100	
260 23.5	19.1 28.7
265 22.6	17.2 25.8





#87
Indeno(1,2,3-cd)pyrene
Concen: 9.242 ng
RT: 28.659 min Scan# 4369
Delta R.T. 0.000 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

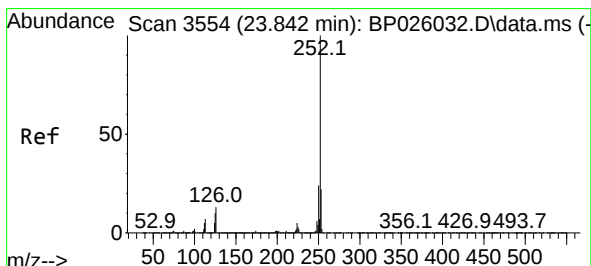
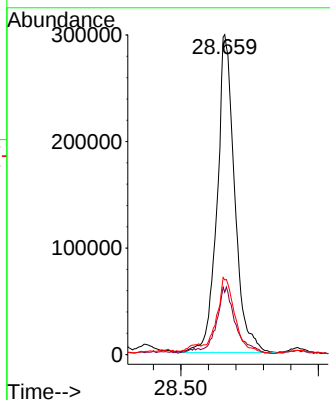
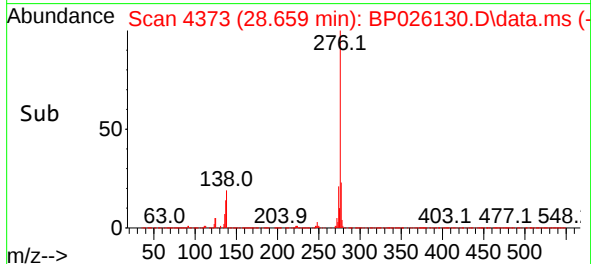
Instrument :
BNA_P
ClientSampleId :
VNJ-231



Tgt Ion: 276 Resp: 1328842
Ion Ratio Lower Upper
276 100
138 22.1 13.2 19.8
277 24.6 16.3 24.5

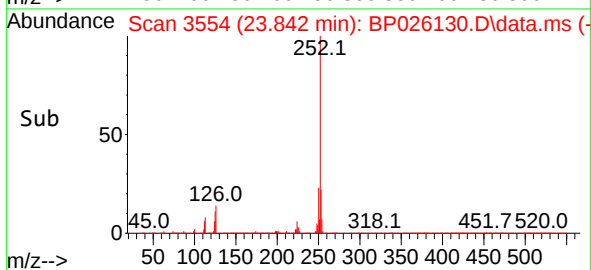
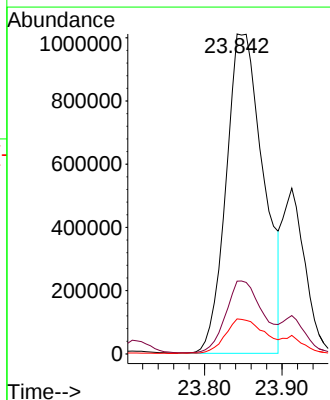
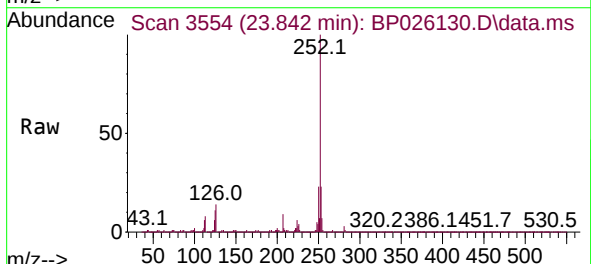
Manual Integrations
APPROVED

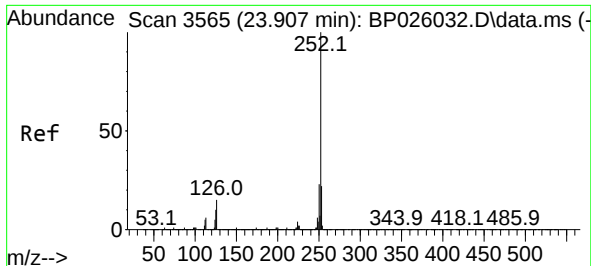
Reviewed By : Jagrut Upadhyay 11/14/2025
Supervised By : Sohil Jodhani 11/14/2025



#88
Benzo(b)fluoranthene
Concen: 28.065 ng
RT: 23.842 min Scan# 3554
Delta R.T. -0.006 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

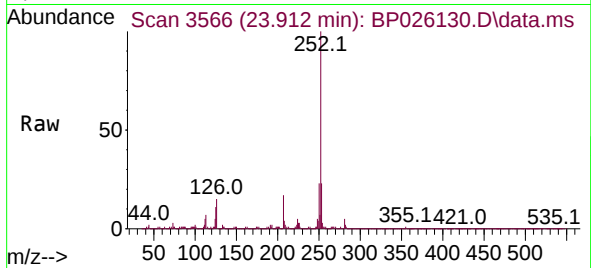
Tgt Ion: 252 Resp: 3393266
Ion Ratio Lower Upper
252 100
253 22.7 17.6 26.4
125 10.9 8.1 12.1





#89
Benzo(k)fluoranthene
Concen: 8.344 ng
RT: 23.912 min Scan# 31
Delta R.T. -0.012 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19

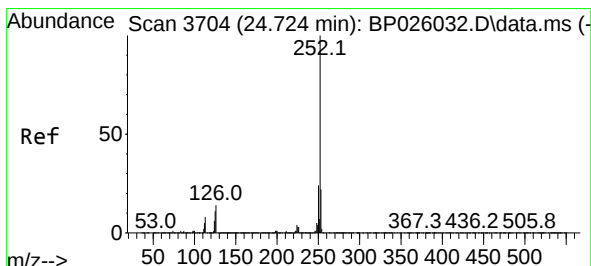
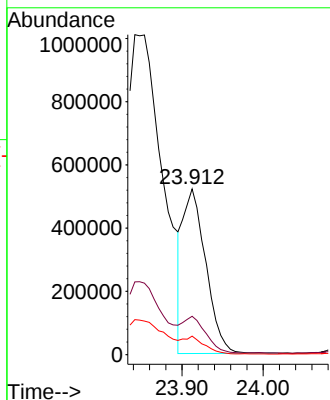
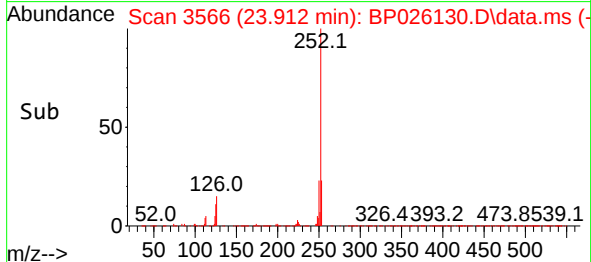
Instrument :
BNA_P
ClientSampleId :
VNJ-231



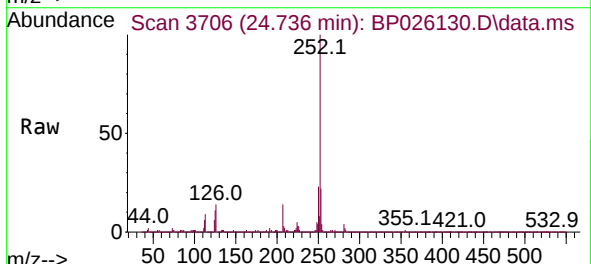
Tgt Ion:252 Resp: 103025
Ion Ratio Lower Upper
252 100
253 23.2 17.5 26.3
125 11.2 8.1 12.1

Manual Integrations
APPROVED

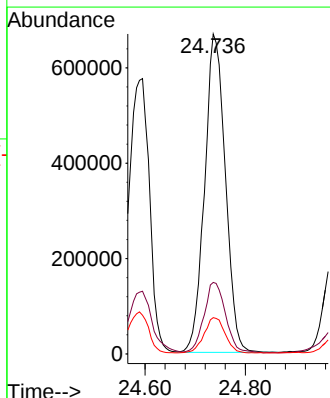
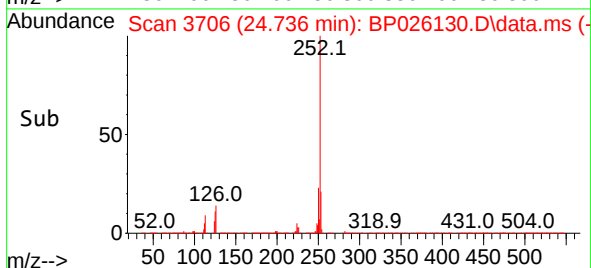
Reviewed By :Jagrut Upadhyay 11/14/2025
Supervised By :Sohil Jodhani 11/14/2025

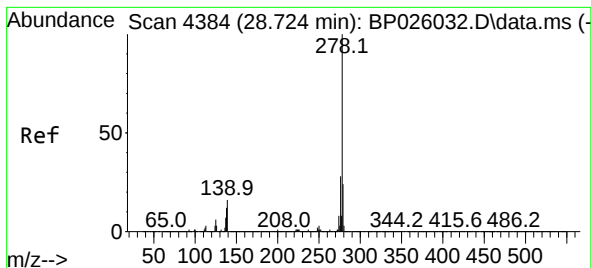


#90
Benzo(a)pyrene
Concen: 17.271 ng
RT: 24.736 min Scan# 3706
Delta R.T. -0.006 min
Lab File: BP026130.D
Acq: 13 Nov 2025 16:19



Tgt Ion:252 Resp: 1918413
Ion Ratio Lower Upper
252 100
253 22.3 17.3 25.9
125 11.3 9.1 13.7





#91

Dibenzo(a,h)anthracene

Concen: 2.848 ng m

RT: 28.736 min Scan# 4384

Delta R.T. -0.012 min

Lab File: BP026130.D

Acq: 13 Nov 2025 16:19

Instrument :

BNA_P

ClientSampleId :

VNJ-231

Tgt Ion:278 Resp: 333229

Ion Ratio Lower Upper

278 100

139 15.7 13.0 19.6

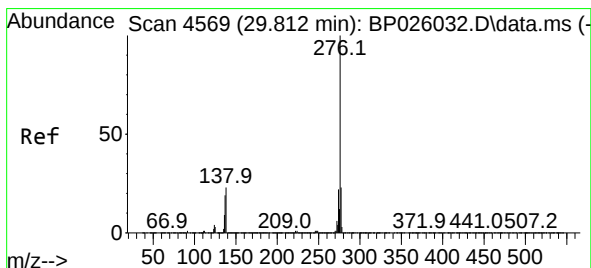
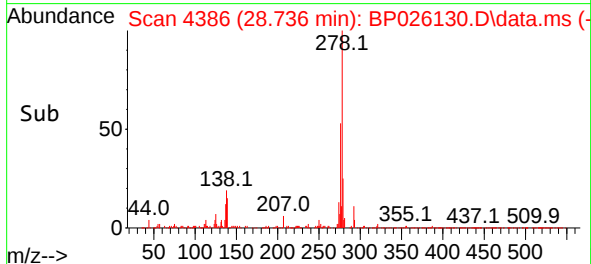
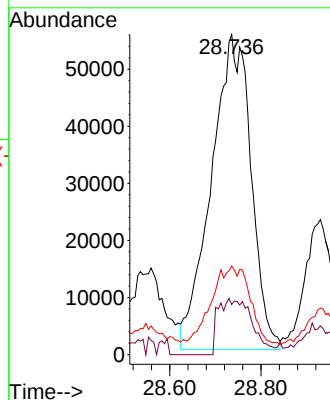
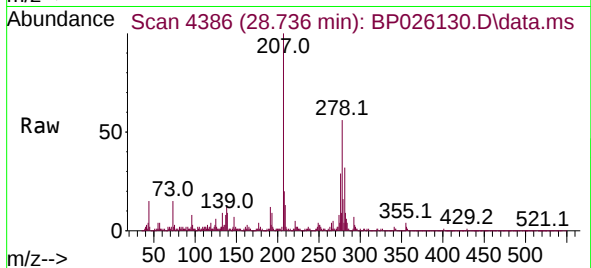
279 27.7 18.9 28.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/14/2025

Supervised By :Sohil Jodhani 11/14/2025



#92

Benzo(g,h,i)perylene

Concen: 11.131 ng

RT: 29.824 min Scan# 4571

Delta R.T. -0.006 min

Lab File: BP026130.D

Acq: 13 Nov 2025 16:19

Tgt Ion:276 Resp: 1253381

Ion Ratio Lower Upper

276 100

277 23.8 18.5 27.7

138 22.2 18.1 27.1

