

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP071625\
 Data File : BP025162.D
 Acq On : 16 Jul 2025 17:36
 Operator : CG/JU
 Sample : Q2529-02
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-80

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 07/17/2025
 Supervised By :Jagrut Upadhyay 07/17/2025

Quant Time: Jul 16 17:56:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 03 16:05:44 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.437	152	576516	20.000	ng	0.00
21) Naphthalene-d8	10.190	136	2197511	20.000	ng	0.00
39) Acenaphthene-d10	14.101	164	1357113	20.000	ng	0.01
64) Phenanthrene-d10	16.925	188	2583318	20.000	ng	0.02
76) Chrysene-d12	21.354	240	2698510	20.000	ng	0.01
86) Perylene-d12	24.483	264	3269618	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.102	112	2210020	67.922	ng	0.00
7) Phenol-d6	6.637	99	2745006	64.648	ng	0.00
23) Nitrobenzene-d5	8.566	82	1604326	48.553	ng	0.00
42) 2,4,6-Tribromophenol	15.619	330	1361637	84.932	ng	0.00
45) 2-Fluorobiphenyl	12.690	172	3828772	43.706	ng	0.00
79) Terphenyl-d14	19.677	244	6264054	51.017	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	13.801	152	617707	5.438	ng	99
71) Phenanthrene	16.966	178	590540	4.278	ng	99
72) Anthracene	17.048	178	316535	2.390	ng	98
75) Fluoranthene	19.072	202	2381747	14.761	ng	99
78) Pyrene	19.448	202	2324490	13.907	ng	99
81) Benzo(a)anthracene	21.330	228	1242913m	7.600	ng	
83) Chrysene	21.395	228	1450811	9.219	ng	99
87) Indeno(1,2,3-cd)pyrene	28.012	276	1586375	7.616	ng	# 88
88) Benzo(b)fluoranthene	23.507	252	2833477	14.889	ng	99
89) Benzo(k)fluoranthene	23.565	252	952541m	5.030	ng	
90) Benzo(a)pyrene	24.336	252	1559350	9.627	ng	98
91) Dibenzo(a,h)anthracene	28.077	278	376682	2.188	ng	# 90
92) Benzo(g,h,i)perylene	29.089	276	1498299	8.424	ng	99

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

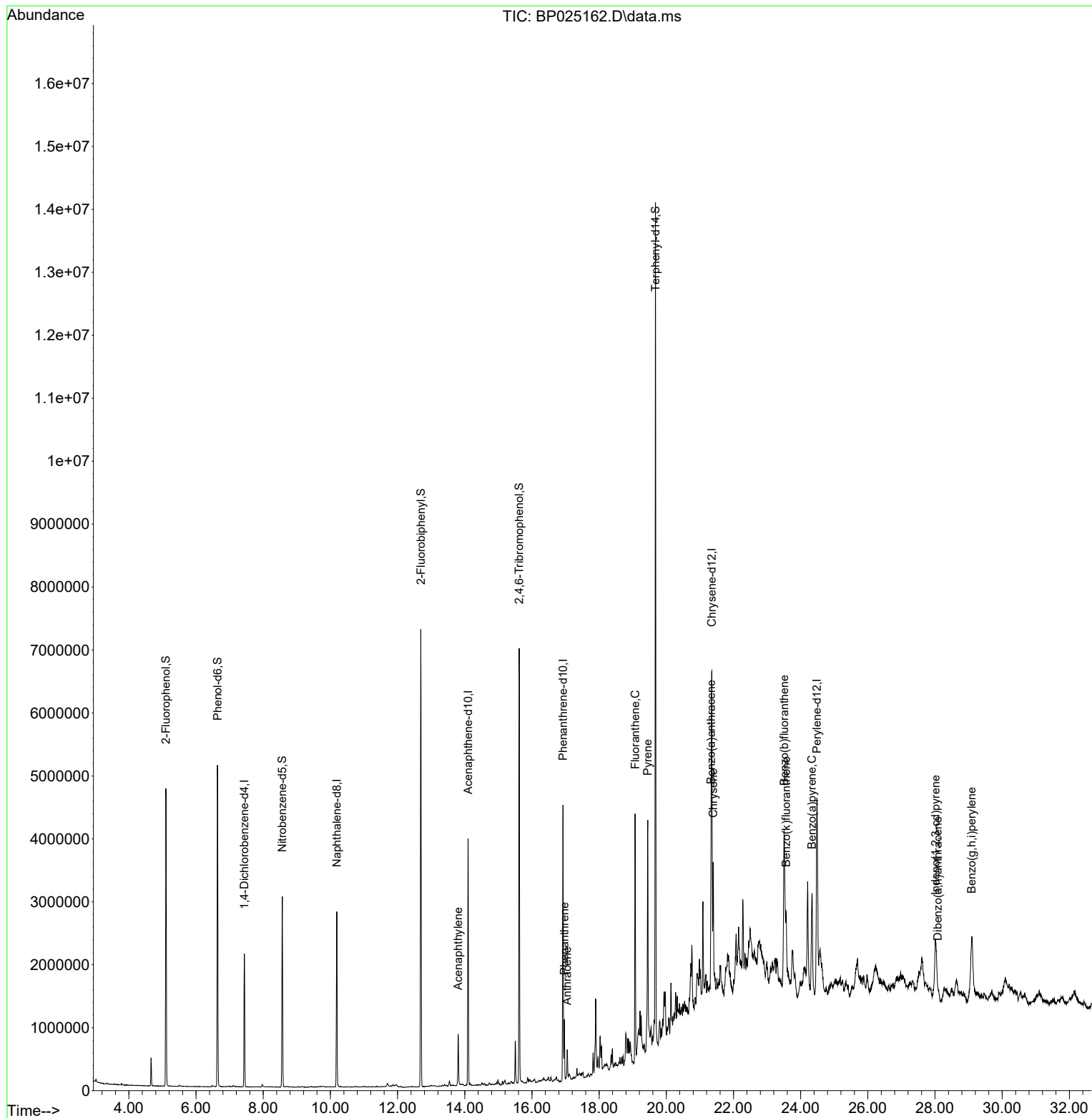
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP071625\
Data File : BP025162.D
Acq On : 16 Jul 2025 17:36
Operator : CG/JU
Sample : Q2529-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

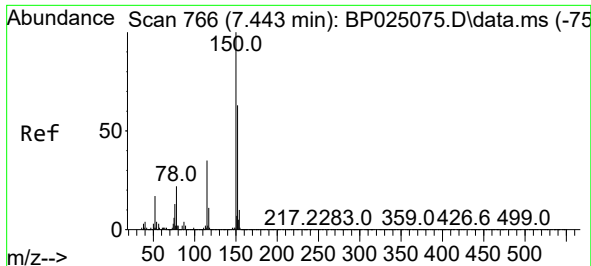
Instrument :
BNA_P
ClientSampleId :
TP-80

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

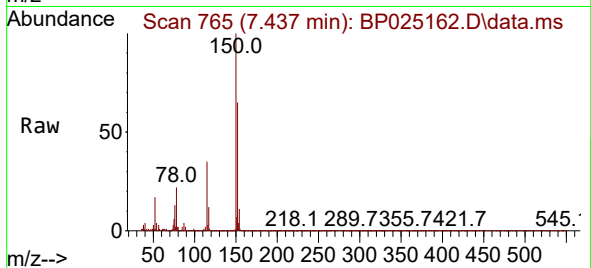
Quant Time: Jul 16 17:56:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP070325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 03 16:05:44 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.437 min Scan# 70
Delta R.T. -0.006 min
Lab File: BP025162.D
Acq: 16 Jul 2025 17:36

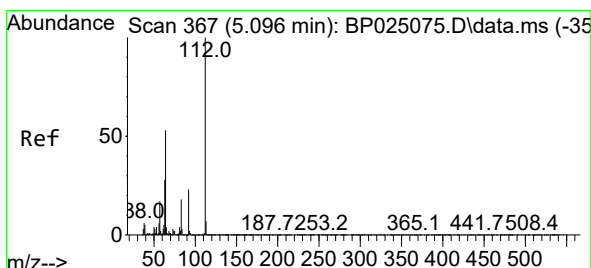
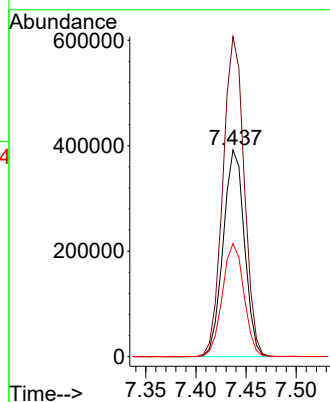
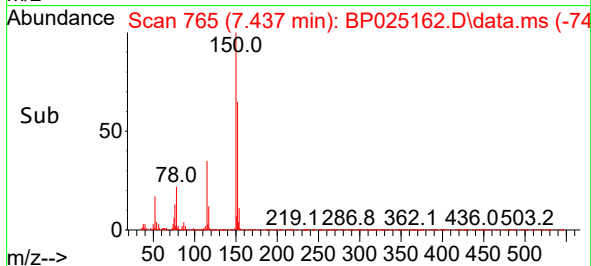
Instrument :
BNA_P
ClientSampleId :
TP-80



Tgt Ion:152 Resp: 576510
Ion Ratio Lower Upper
152 100
150 154.8 126.1 189.1
115 54.7 44.3 66.5

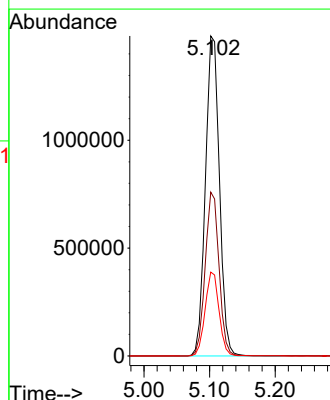
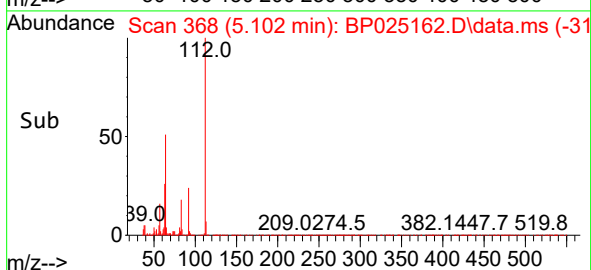
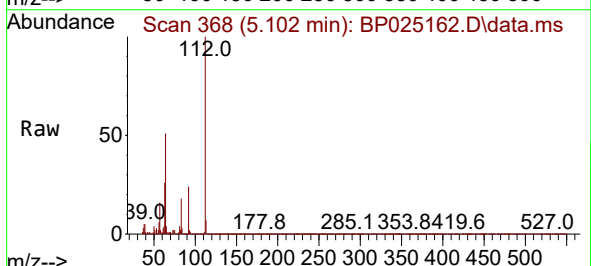
Manual Integrations
APPROVED

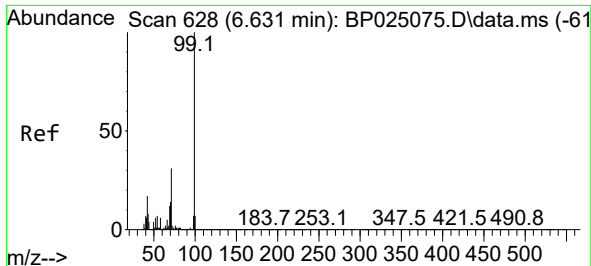
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025



#5
2-Fluorophenol
Concen: 67.922 ng
RT: 5.102 min Scan# 368
Delta R.T. 0.006 min
Lab File: BP025162.D
Acq: 16 Jul 2025 17:36

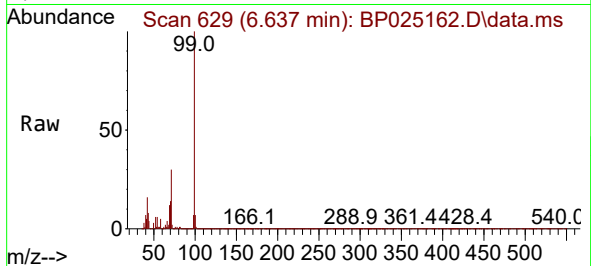
Tgt Ion:112 Resp: 2210020
Ion Ratio Lower Upper
112 100
64 51.2 42.0 63.0
63 26.2 22.2 33.2





#7
Phenol-d6
Concen: 64.648 ng
RT: 6.637 min Scan# 61
Delta R.T. 0.006 min
Lab File: BP025162.D
Acq: 16 Jul 2025 17:36

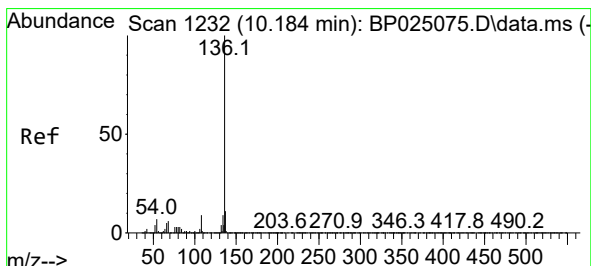
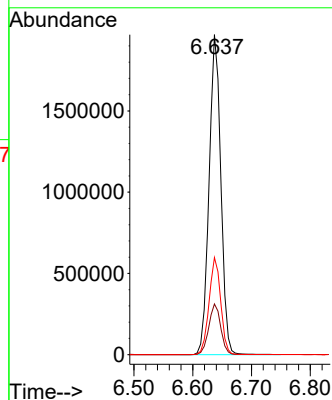
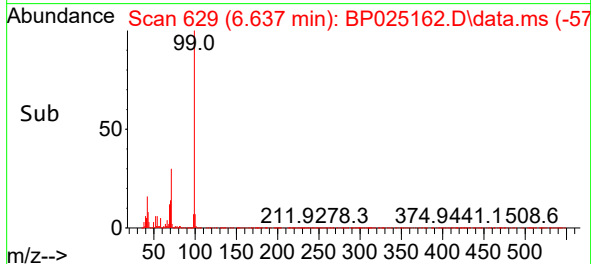
Instrument :
BNA_P
ClientSampleId :
TP-80



Tgt Ion: 99 Resp: 2745000
Ion Ratio Lower Upper
99 100
42 15.9 13.6 20.4
71 30.4 24.4 36.6

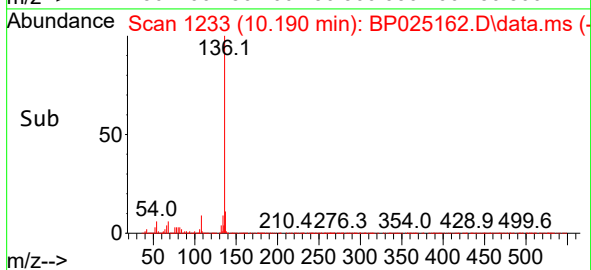
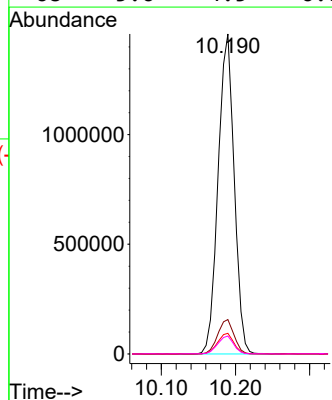
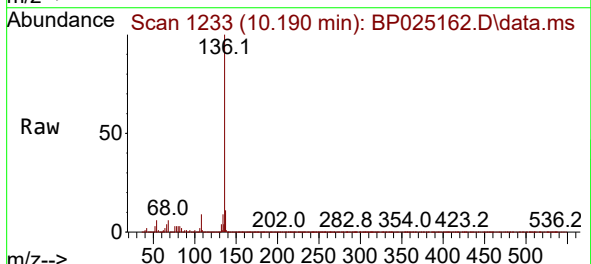
Manual Integrations
APPROVED

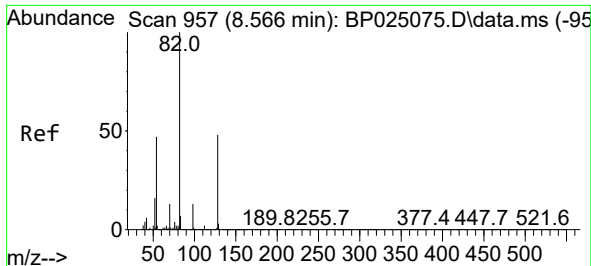
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.190 min Scan# 1233
Delta R.T. 0.006 min
Lab File: BP025162.D
Acq: 16 Jul 2025 17:36

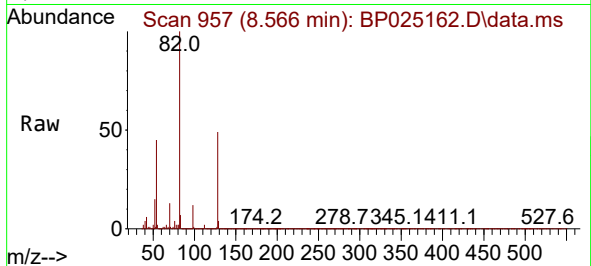
Tgt Ion:136 Resp: 2197511
Ion Ratio Lower Upper
136 100
137 10.7 8.7 13.1
54 6.4 5.4 8.2
68 5.6 4.5 6.7





#23
Nitrobenzene-d5
Concen: 48.553 ng
RT: 8.566 min Scan# 91
Delta R.T. 0.000 min
Lab File: BP025162.D
Acq: 16 Jul 2025 17:36

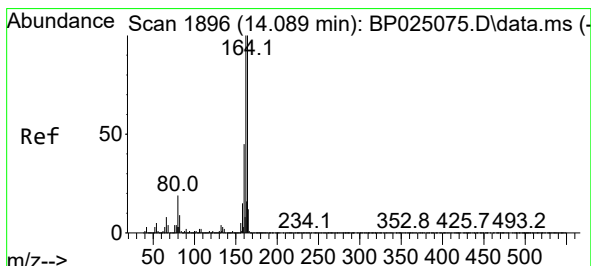
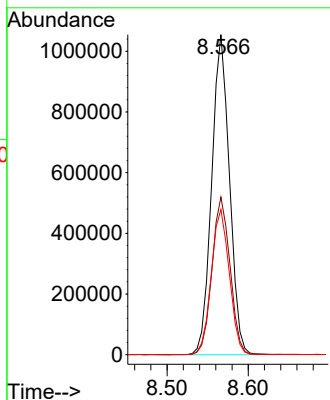
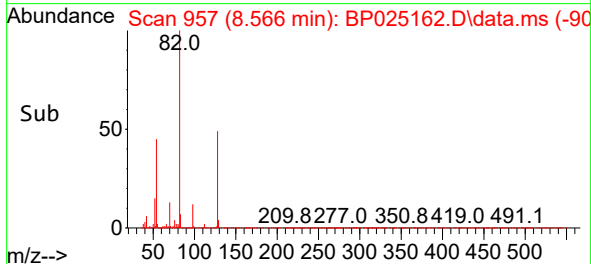
Instrument :
BNA_P
ClientSampleId :
TP-80



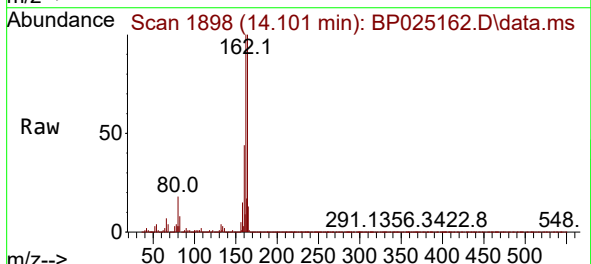
Tgt Ion: 82 Resp: 1604320
Ion Ratio Lower Upper
82 100
128 49.2 38.4 57.6
54 45.3 37.8 56.6

Manual Integrations
APPROVED

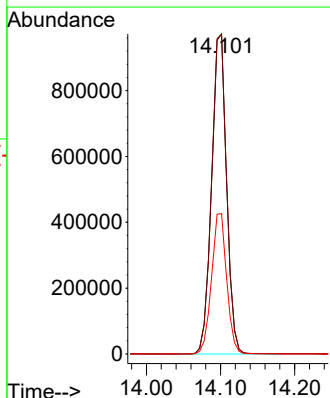
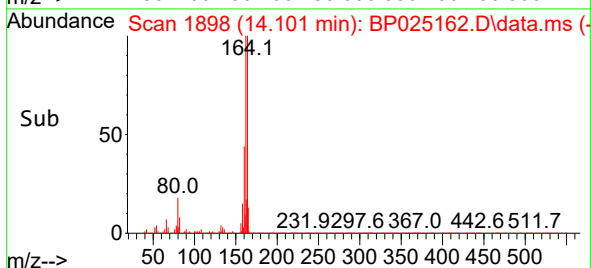
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

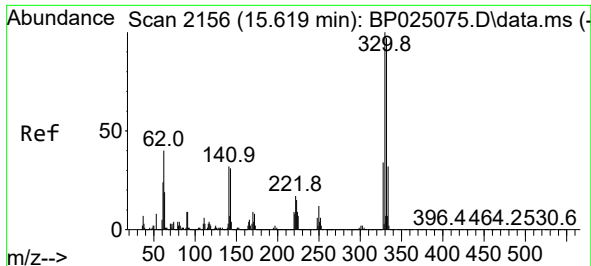


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.101 min Scan# 1898
Delta R.T. 0.012 min
Lab File: BP025162.D
Acq: 16 Jul 2025 17:36



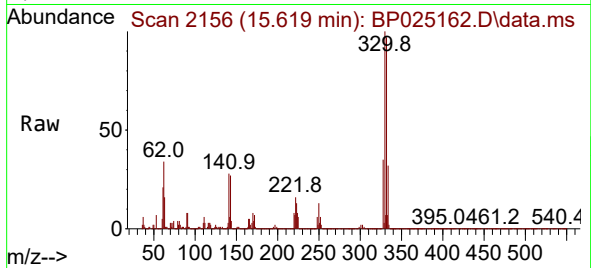
Tgt Ion:164 Resp: 1357113
Ion Ratio Lower Upper
164 100
162 100.1 80.3 120.5
160 43.9 35.9 53.9





#42
2,4,6-Tribromophenol
Concen: 84.932 ng
RT: 15.619 min Scan# 2156
Delta R.T. 0.000 min
Lab File: BP025162.D
Acq: 16 Jul 2025 17:36

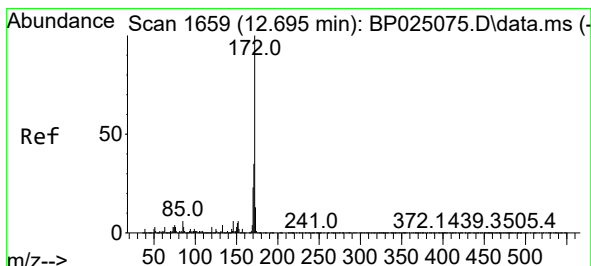
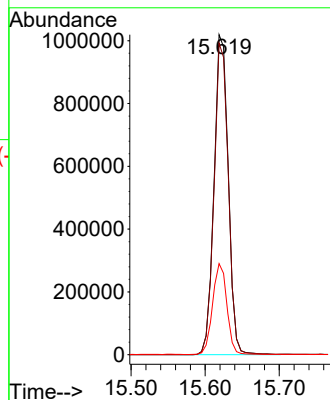
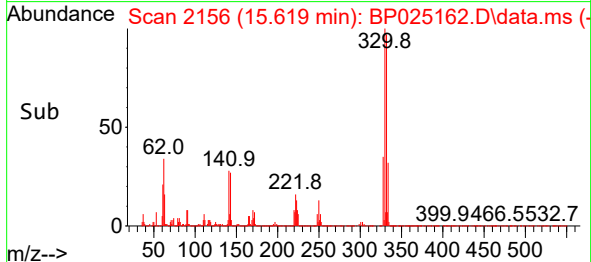
Instrument :
BNA_P
ClientSampleId :
TP-80



Tgt Ion: 330 Resp: 136163
Ion Ratio Lower Upper
330 100
332 97.3 77.7 116.5
141 28.3 26.0 39.0

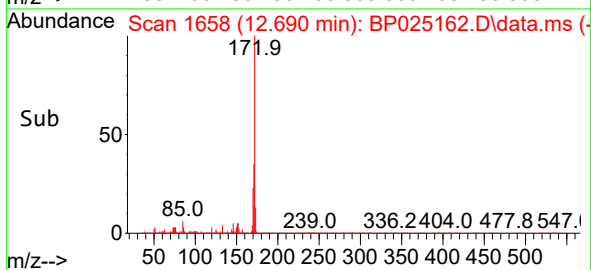
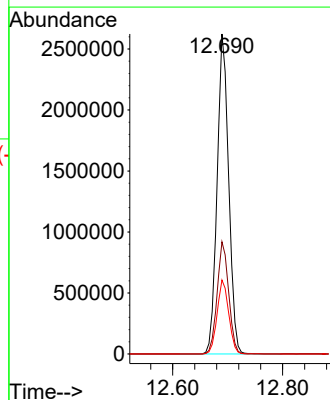
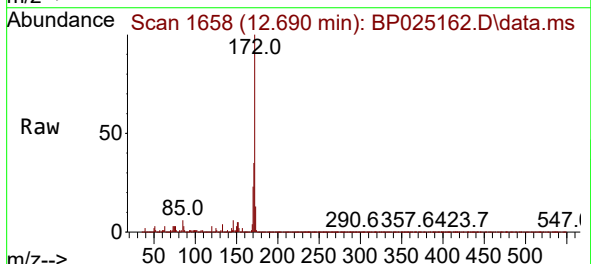
Manual Integrations
APPROVED

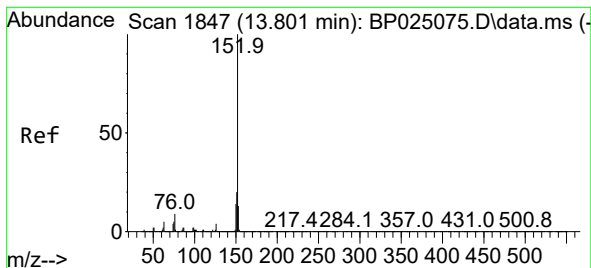
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025



#45
2-Fluorobiphenyl
Concen: 43.706 ng
RT: 12.690 min Scan# 1658
Delta R.T. -0.006 min
Lab File: BP025162.D
Acq: 16 Jul 2025 17:36

Tgt Ion: 172 Resp: 3828772
Ion Ratio Lower Upper
172 100
171 35.0 28.2 42.2
170 23.1 18.7 28.1





#49

Acenaphthylene

Concen: 5.438 ng

RT: 13.801 min Scan# 1847

Delta R.T. 0.000 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

Instrument :

BNA_P

ClientSampleId :

TP-80

Tgt Ion:152 Resp: 61770

Ion Ratio Lower Upper

152 100

151 19.1 16.1 24.1

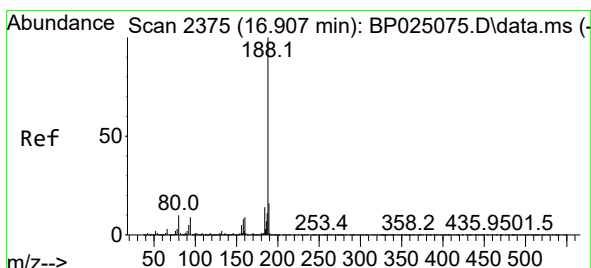
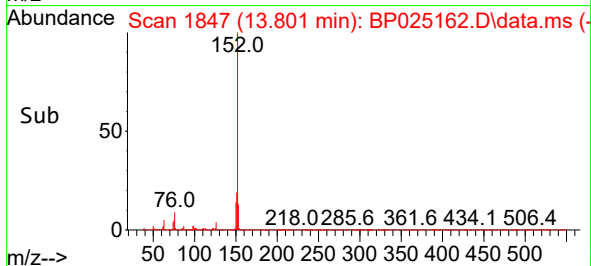
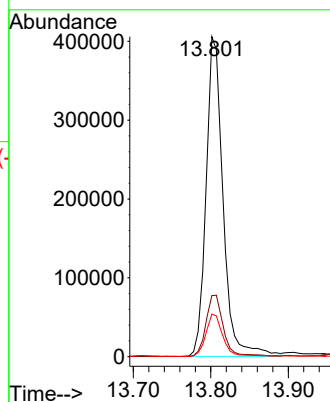
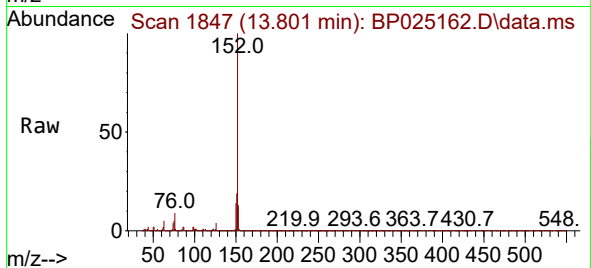
153 13.3 10.7 16.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.925 min Scan# 2378

Delta R.T. 0.018 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

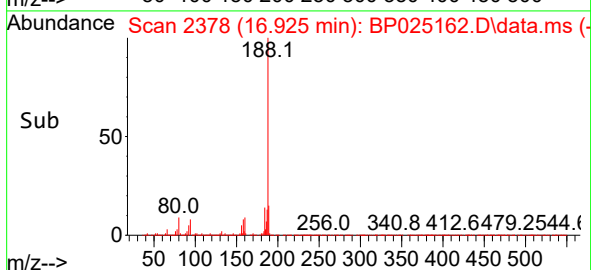
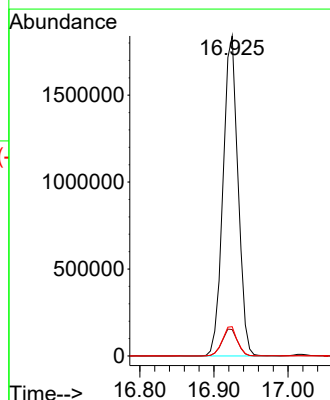
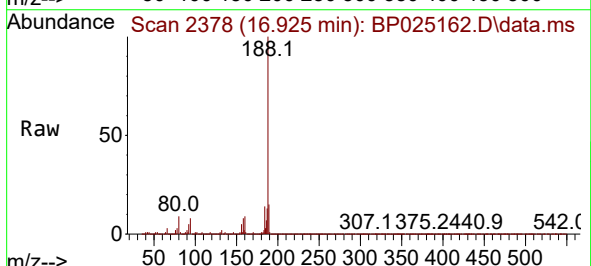
Tgt Ion:188 Resp: 2583318

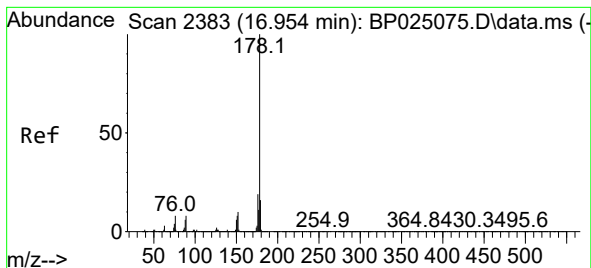
Ion Ratio Lower Upper

188 100

94 8.3 7.3 10.9

80 9.1 7.8 11.6





#71

Phenanthrene

Concen: 4.278 ng

RT: 16.966 min Scan# 21

Delta R.T. 0.012 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

Instrument :

BNA_P

ClientSampleId :

TP-80

Tgt Ion:178 Resp: 590540

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.2

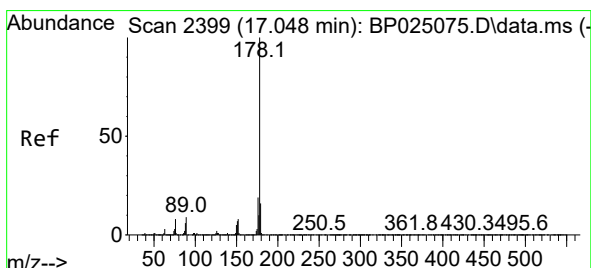
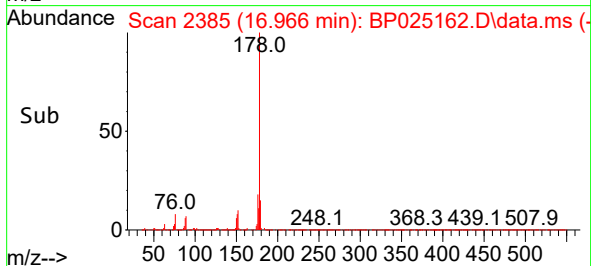
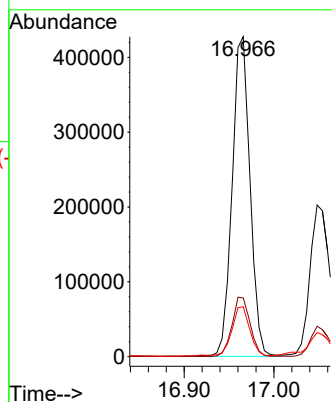
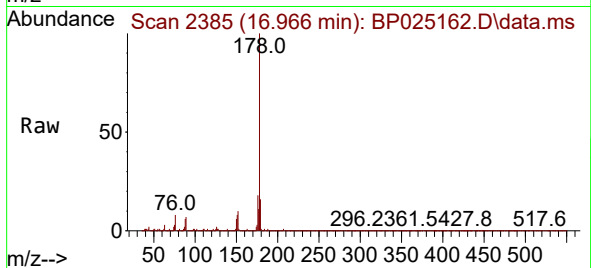
179 15.6 12.6 19.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#72

Anthracene

Concen: 2.390 ng

RT: 17.048 min Scan# 2399

Delta R.T. 0.000 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

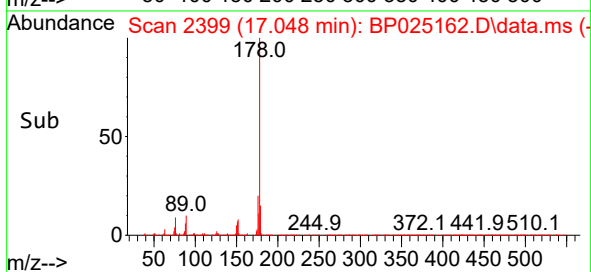
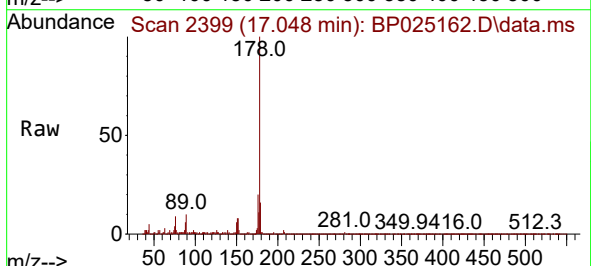
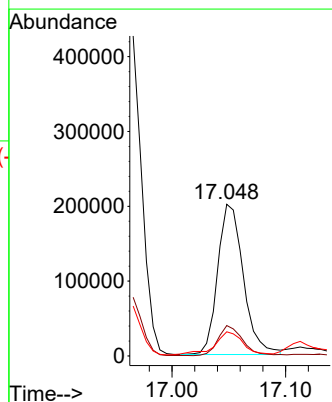
Tgt Ion:178 Resp: 316535

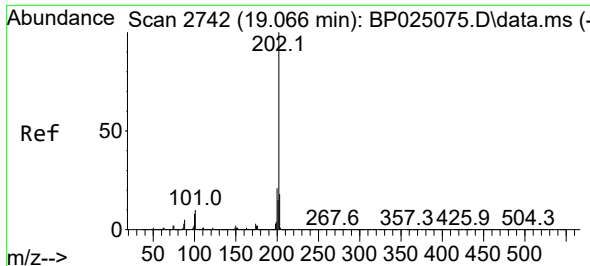
Ion Ratio Lower Upper

178 100

176 20.0 15.0 22.6

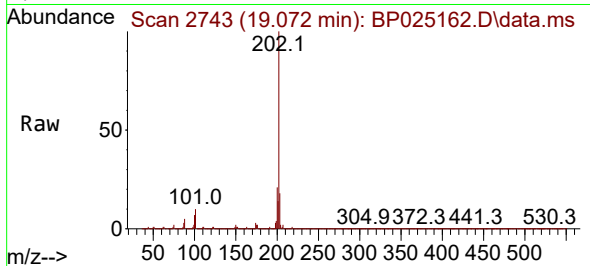
179 15.9 12.5 18.7





#75
Fluoranthene
Concen: 14.761 ng
RT: 19.072 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP025162.D
Acq: 16 Jul 2025 17:36

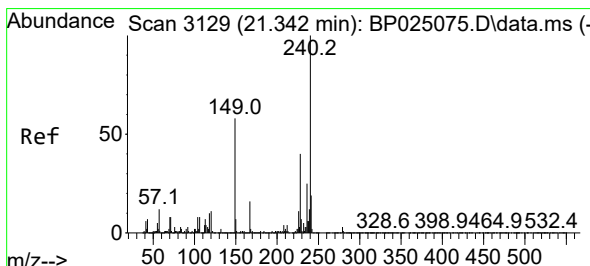
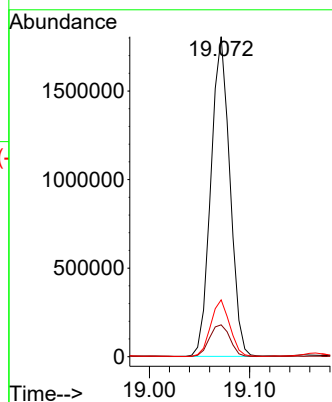
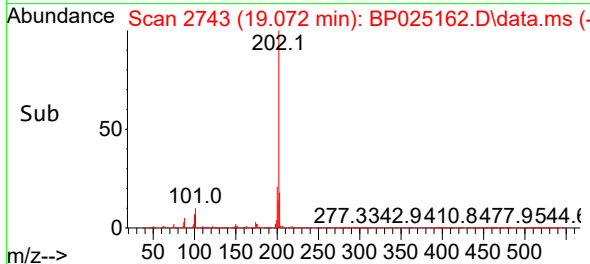
Instrument :
BNA_P
ClientSampleId :
TP-80



Tgt Ion:202 Resp: 238174
Ion Ratio Lower Upper
202 100
101 10.0 0.0 30.4
203 17.8 0.0 37.6

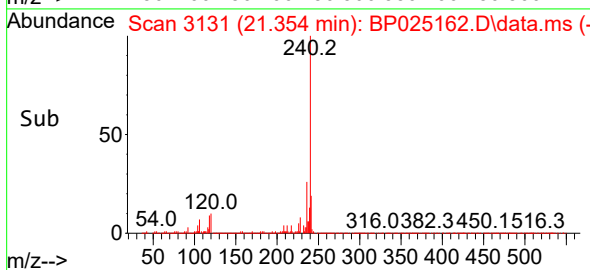
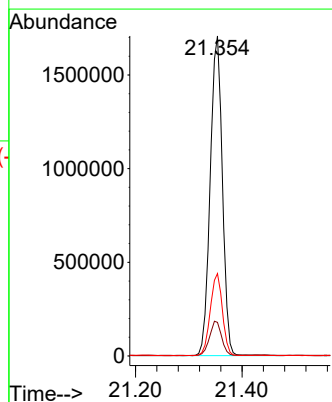
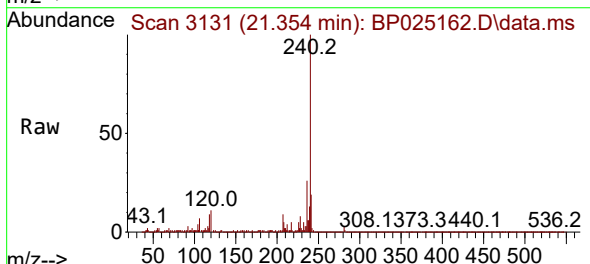
Manual Integrations
APPROVED

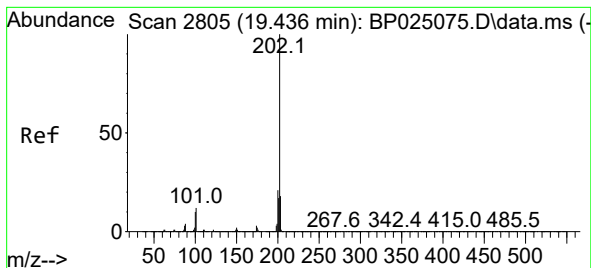
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.354 min Scan# 3131
Delta R.T. 0.012 min
Lab File: BP025162.D
Acq: 16 Jul 2025 17:36

Tgt Ion:240 Resp: 2698510
Ion Ratio Lower Upper
240 100
120 10.5 9.0 13.4
236 25.7 20.3 30.5





#78

Pyrene

Concen: 13.907 ng

RT: 19.448 min Scan# 2807

Delta R.T. 0.012 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

Instrument :

BNA_P

ClientSampleId :

TP-80

Tgt Ion:202 Resp: 2324490

Ion Ratio Lower Upper

202 100

200 20.7 17.1 25.7

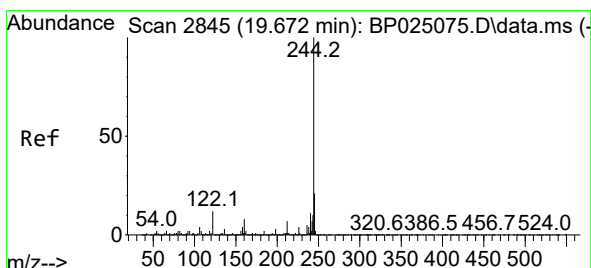
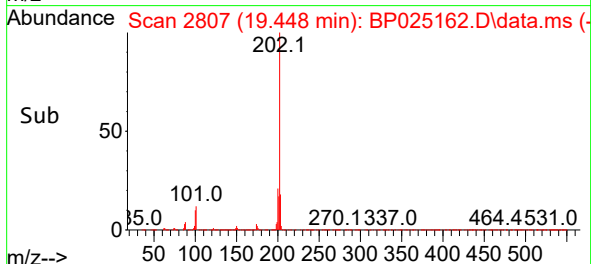
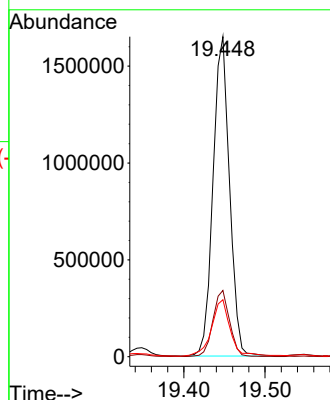
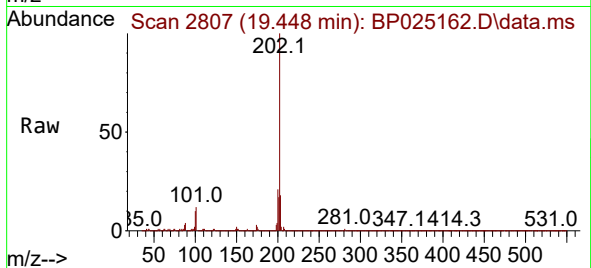
203 17.8 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#79

Terphenyl-d14

Concen: 51.017 ng

RT: 19.677 min Scan# 2846

Delta R.T. 0.006 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

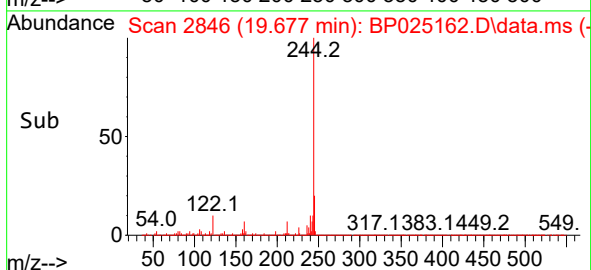
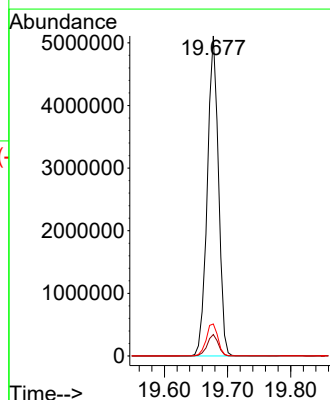
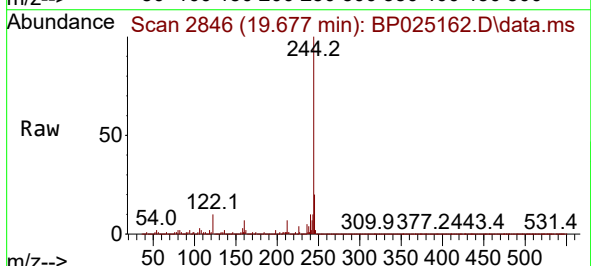
Tgt Ion:244 Resp: 6264054

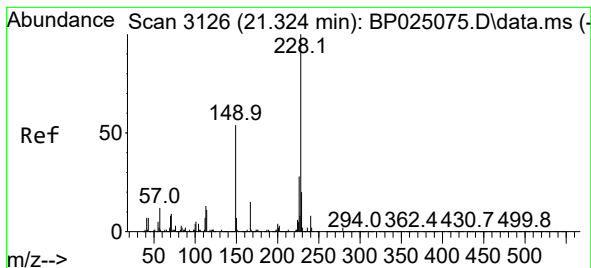
Ion Ratio Lower Upper

244 100

212 6.7 5.9 8.9

122 10.0 9.4 14.2





#81

Benzo(a)anthracene

Concen: 7.600 ng m

RT: 21.330 min Scan# 3126

Delta R.T. 0.006 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

Instrument :

BNA_P

ClientSampleId :

TP-80

Tgt Ion:228 Resp: 124291

Ion Ratio Lower Upper

228 100

226 39.5 22.1 33.1

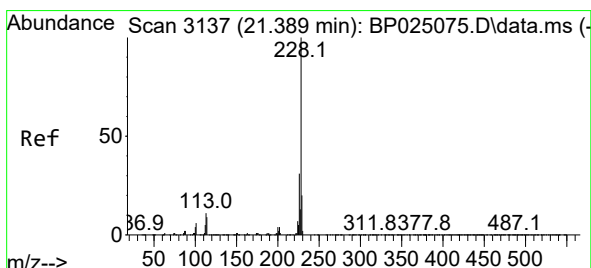
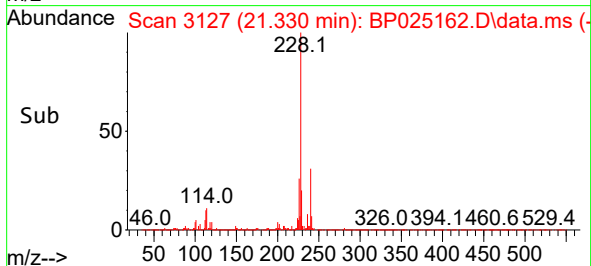
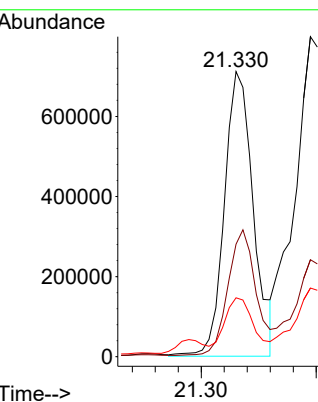
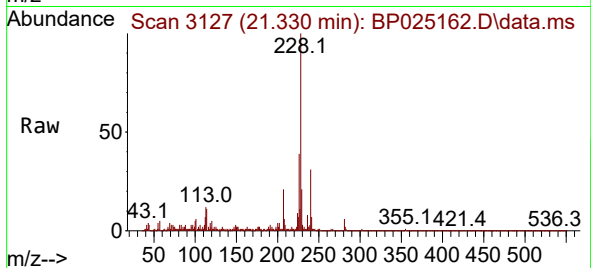
229 20.7 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#83

Chrysene

Concen: 9.219 ng

RT: 21.395 min Scan# 3138

Delta R.T. 0.006 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

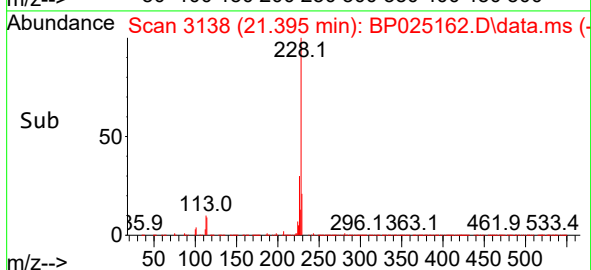
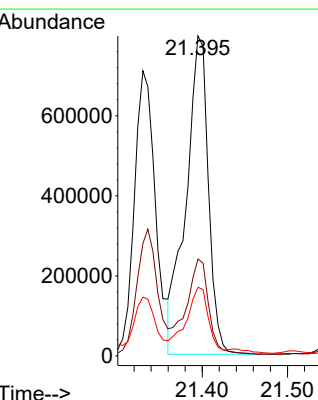
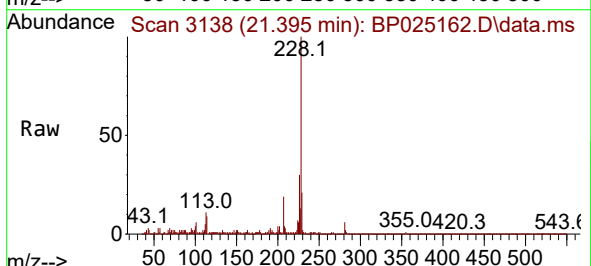
Tgt Ion:228 Resp: 1450811

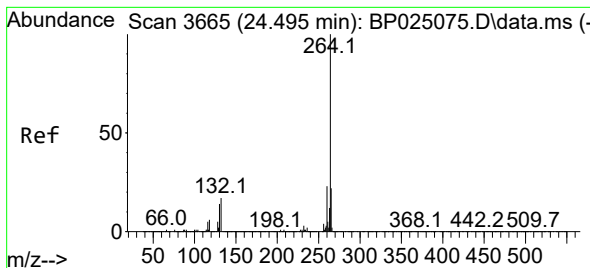
Ion Ratio Lower Upper

228 100

226 30.3 24.4 36.6

229 21.5 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.483 min Scan# 30

Delta R.T. -0.012 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

Instrument :

BNA_P

ClientSampleId :

TP-80

Tgt Ion:264 Resp: 3269618

Ion Ratio Lower Upper

264 100

260 23.3 18.6 28.0

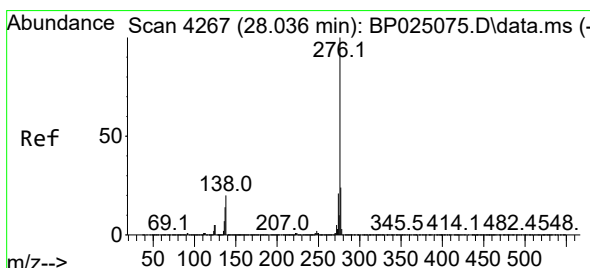
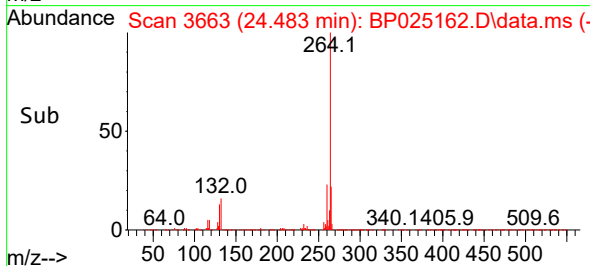
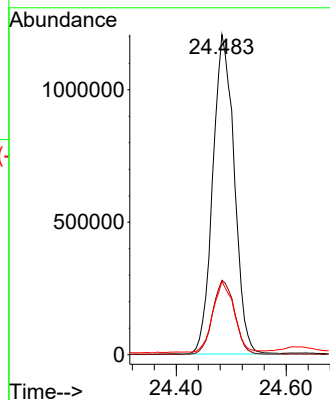
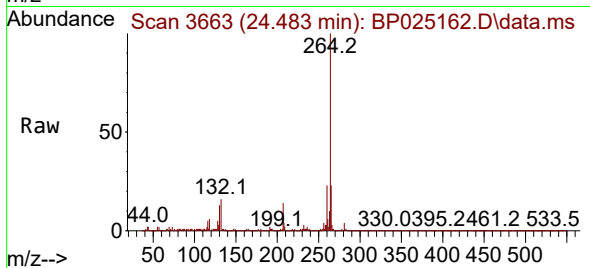
265 22.9 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.616 ng

RT: 28.012 min Scan# 4263

Delta R.T. -0.024 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

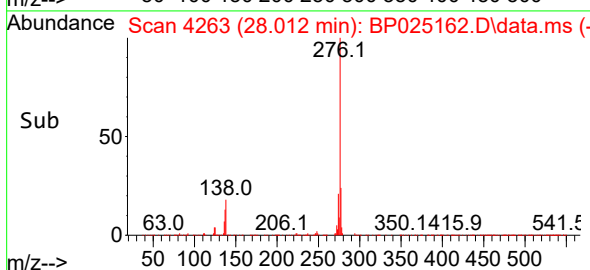
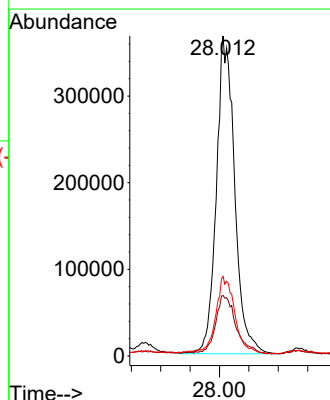
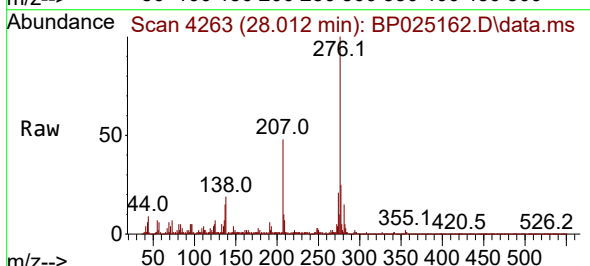
Tgt Ion:276 Resp: 1586375

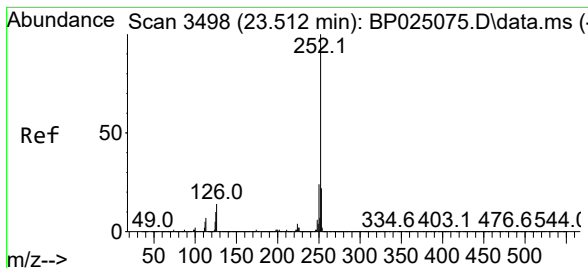
Ion Ratio Lower Upper

276 100

138 20.7 13.0 19.6#

277 25.7 15.9 23.9#





#88

Benzo(b)fluoranthene

Concen: 14.889 ng

RT: 23.507 min Scan# 3498

Delta R.T. -0.006 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

Instrument :

BNA_P

ClientSampleId :

TP-80

Tgt Ion:252 Resp: 283347

Ion Ratio Lower Upper

252 100

253 22.0 17.7 26.5

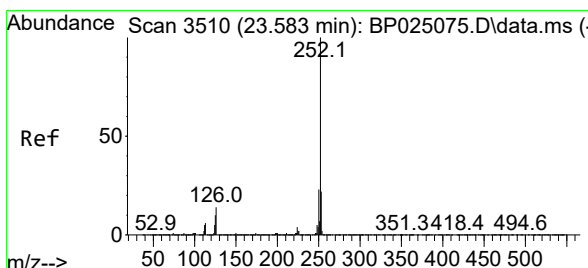
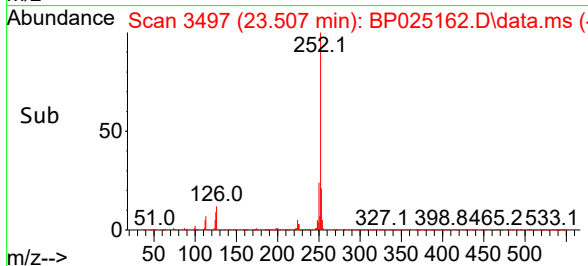
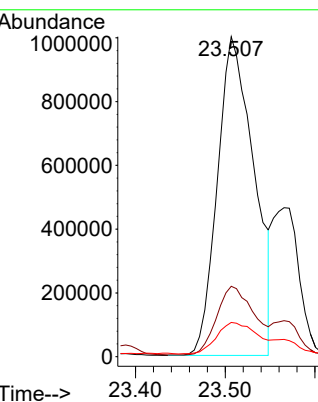
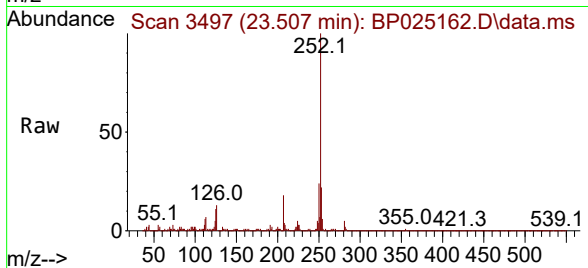
125 10.7 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#89

Benzo(k)fluoranthene

Concen: 5.030 ng m

RT: 23.565 min Scan# 3507

Delta R.T. -0.018 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

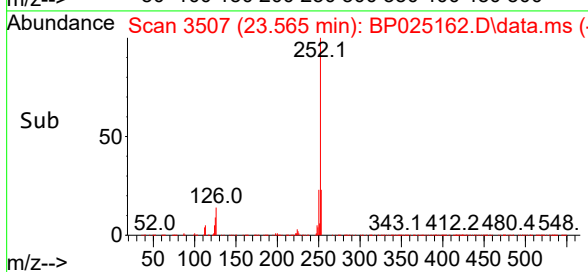
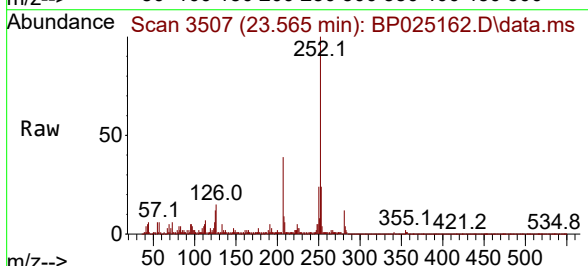
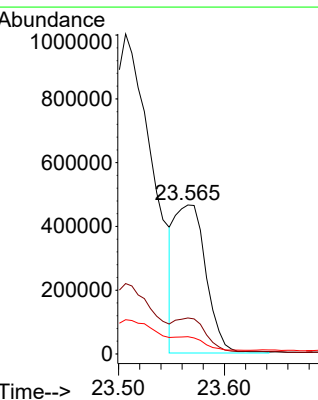
Tgt Ion:252 Resp: 952541

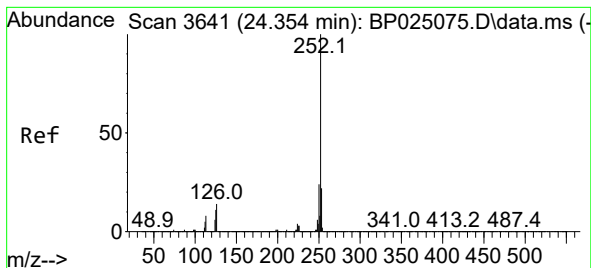
Ion Ratio Lower Upper

252 100

253 24.2 17.7 26.5

125 11.6 8.2 12.2





#90

Benzo(a)pyrene

Concen: 9.627 ng

RT: 24.336 min Scan# 3638

Delta R.T. -0.018 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

Instrument :

BNA_P

ClientSampleId :

TP-80

Tgt Ion:252 Resp: 1559350

Ion Ratio Lower Upper

252 100

253 22.6 17.6 26.4

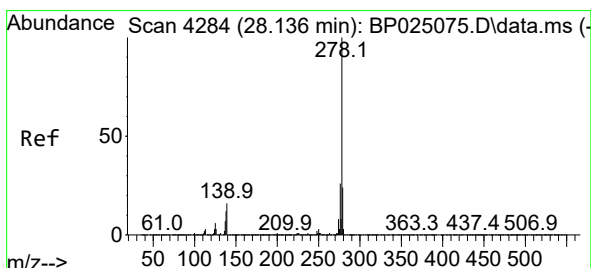
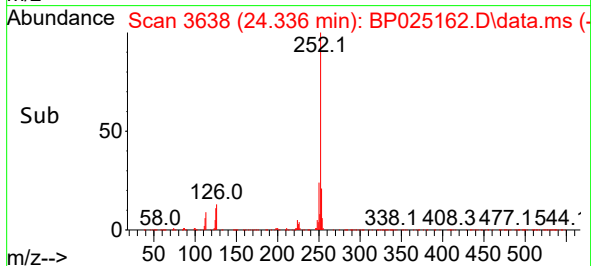
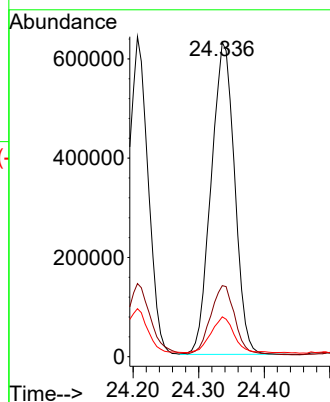
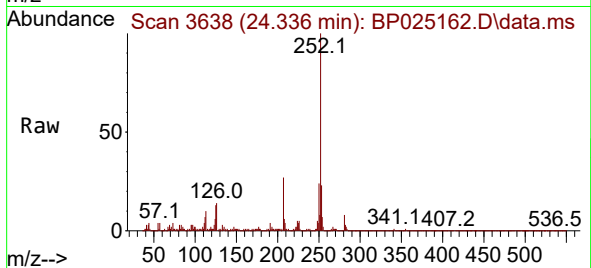
125 12.7 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/17/2025

Supervised By :Jagrut Upadhyay 07/17/2025



#91

Dibenzo(a,h)anthracene

Concen: 2.188 ng

RT: 28.077 min Scan# 4274

Delta R.T. -0.059 min

Lab File: BP025162.D

Acq: 16 Jul 2025 17:36

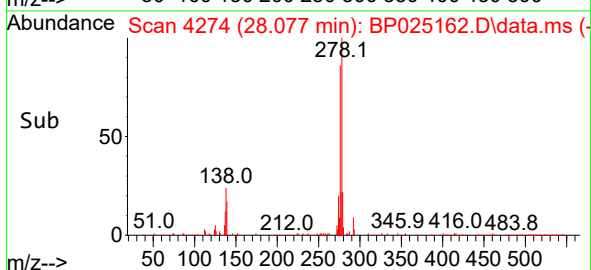
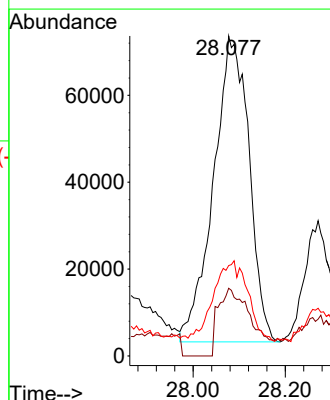
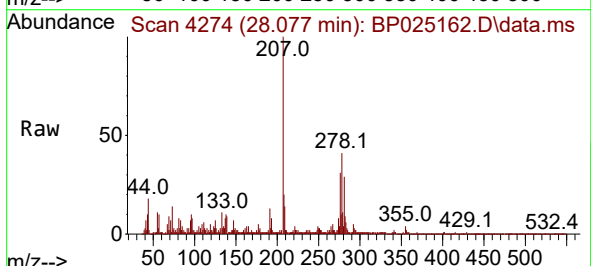
Tgt Ion:278 Resp: 376682

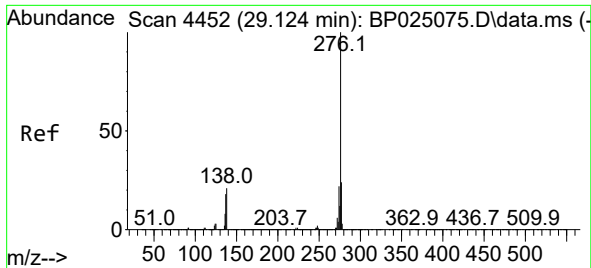
Ion Ratio Lower Upper

278 100

139 21.1 13.1 19.7#

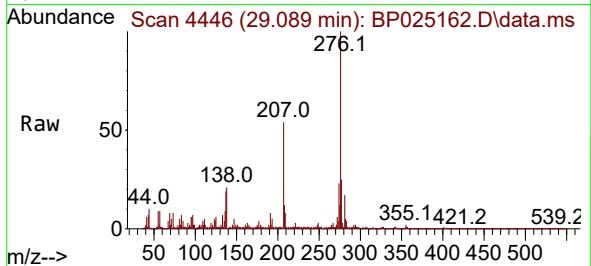
279 28.2 18.9 28.3





#92
 Benzo(g,h,i)perylene
 Concen: 8.424 ng
 RT: 29.089 min Scan# 44
 Delta R.T. -0.035 min
 Lab File: BP025162.D
 Acq: 16 Jul 2025 17:36

Instrument :
 BNA_P
 ClientSampleId :
 TP-80



Tgt Ion: 276 Resp: 1498299
 Ion Ratio Lower Upper
 276 100
 277 25.2 19.3 28.9
 138 21.3 16.9 25.3

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 07/17/2025
 Supervised By :Jagrut Upadhyay 07/17/2025

