

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP091225\
 Data File : BP025739.D
 Acq On : 12 Sep 2025 11:46
 Operator : CG/JU
 Sample : Q2893-02
 Misc : LOQ-SOIL 10PPM
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 LOQ-SOIL-02-QT3-2025

Quant Time: Sep 12 12:10:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP091225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 16:45:04 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/15/2025
 Supervised By :Jagrut Upadhyay 09/15/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	139361	20.000	ng	0.00
21) Naphthalene-d8	10.525	136	579948	20.000	ng	0.00
39) Acenaphthene-d10	14.372	164	410805	20.000	ng	0.00
64) Phenanthrene-d10	17.177	188	867673	20.000	ng	0.00
76) Chrysene-d12	21.618	240	961553	20.000	ng	-0.02
86) Perylene-d12	24.977	264	1023853	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.384	112	977639	113.193	ng	0.00
7) Phenol-d6	6.943	99	1336852	116.450	ng	0.00
23) Nitrobenzene-d5	8.901	82	992463	75.487	ng	0.00
42) 2,4,6-Tribromophenol	15.895	330	588120	114.778	ng	-0.01
45) 2-Fluorobiphenyl	12.984	172	2285652	74.083	ng	0.00
79) Terphenyl-d14	19.895	244	3993694	74.719	ng	-0.02
Target Compounds						
						Qvalue
4) n-Nitrosodimethylamine	3.619	42	42087	8.936	ng	# 95
9) Benzaldehyde	6.913	77	82834	12.038	ng	98
15) Benzyl Alcohol	8.001	79	83316	8.783	ng	97
20) 3+4-Methylphenols	8.537	107	95742	8.377	ng	98
32) Benzoic acid	9.831	122	48862m	7.154	ng	
35) Caprolactam	11.478	113	28149	7.972	ng	95
41) Hexachlorocyclopentadiene	12.531	237	36032	5.315	ng	97
54) 2,4-Dinitrophenol	14.507	184	22251	9.664	ng	92
56) 4-Nitrophenol	14.654	139	30830	9.319	ng	94
65) 4,6-Dinitro-2-methylph...	15.536	198	41215	7.143	ng	96
70) Pentachlorophenol	16.830	266	54398	7.754	ng	97
77) Benzidine	19.507	184	223760	8.079	ng	98
82) 3,3'-Dichlorobenzidine	21.524	252	200309	8.800	ng	98
85) Di-n-octyl phthalate	22.807	149	598241	8.171	ng	99

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

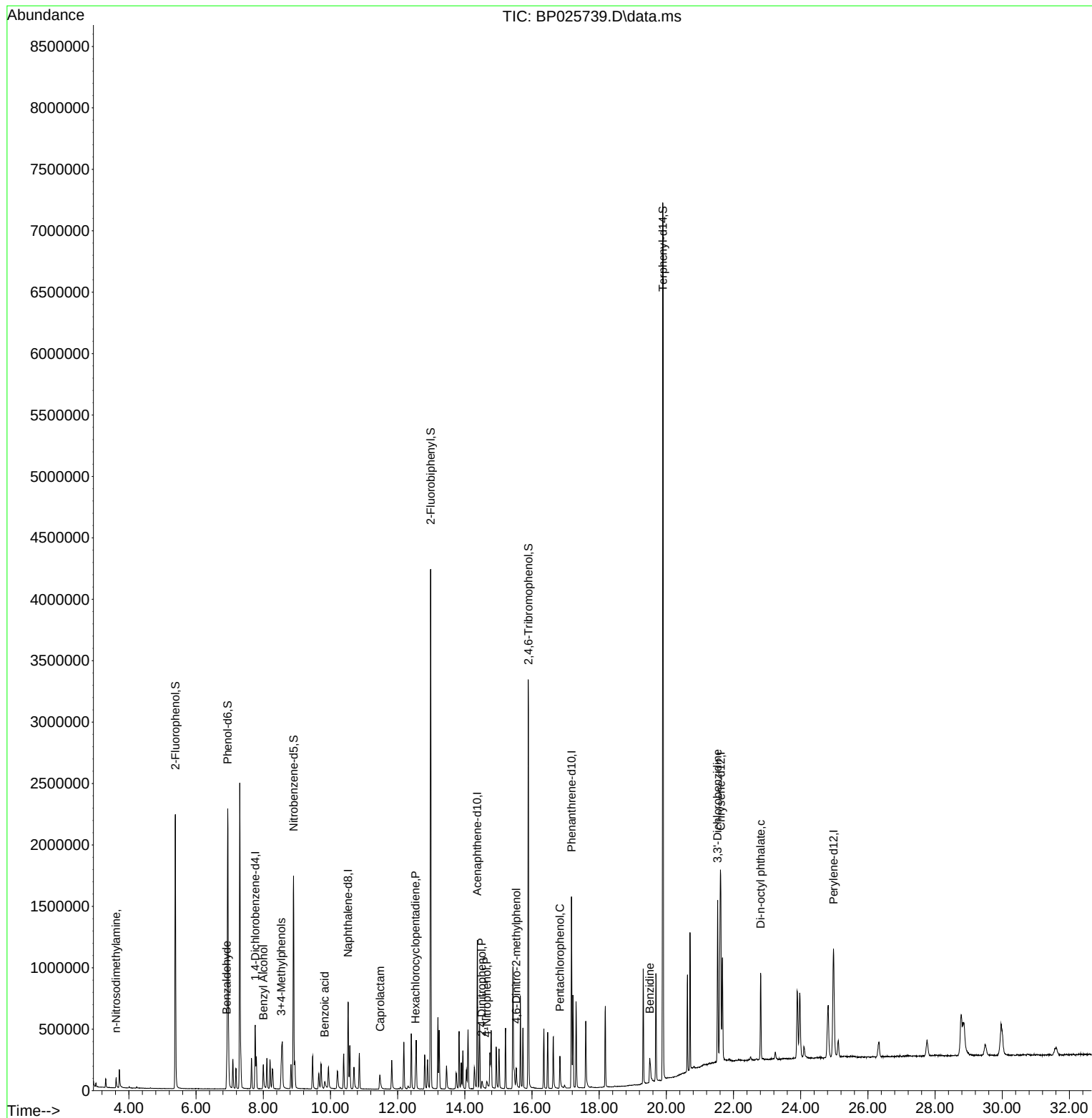
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP091225\
Data File : BP025739.D
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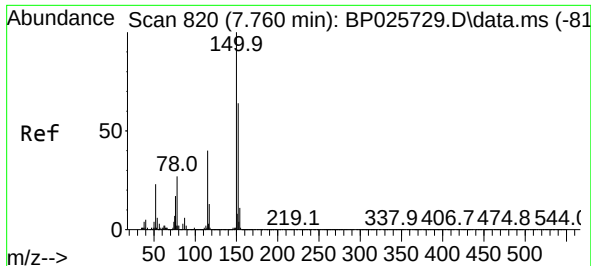
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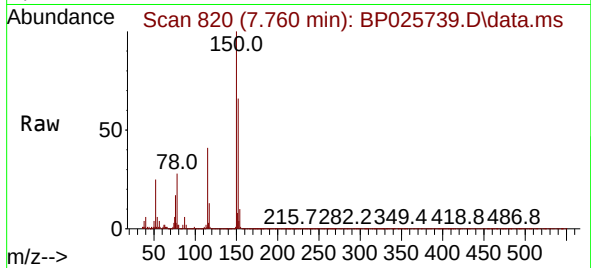
Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.760 min Scan# 81
Delta R.T. 0.000 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

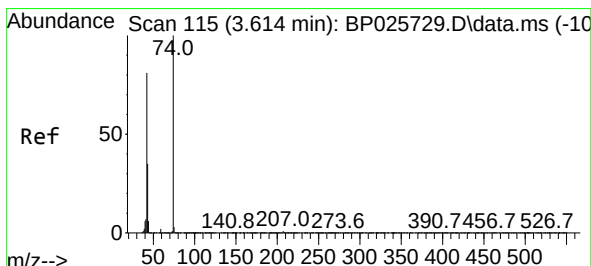
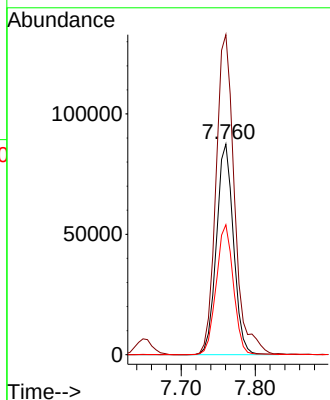
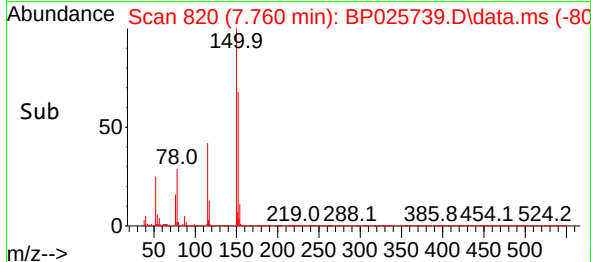
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BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025



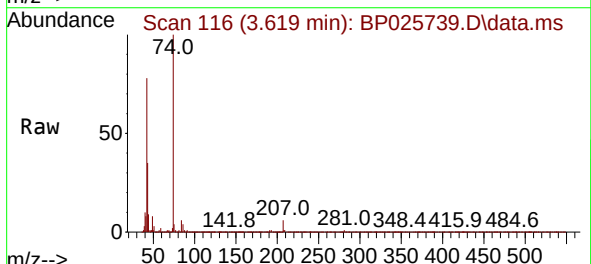
Tgt Ion:152 Resp: 13936
Ion Ratio Lower Upper
152 100
150 152.0 124.3 186.5
115 61.7 50.3 75.5

Manual Integrations
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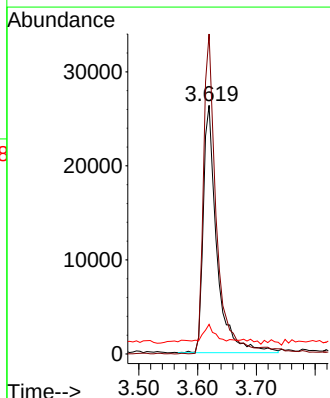
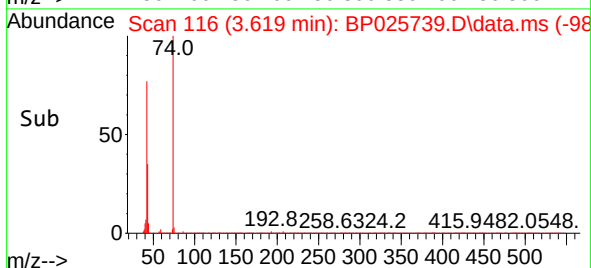
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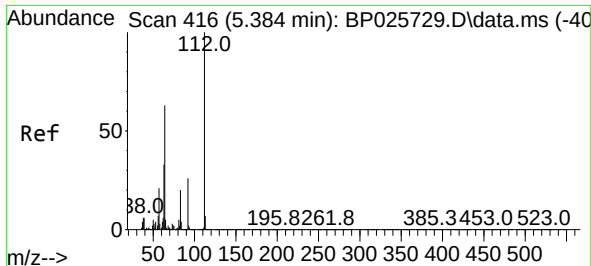


#4
n-Nitrosodimethylamine
Concen: 8.936 ng
RT: 3.619 min Scan# 116
Delta R.T. 0.006 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46



Tgt Ion: 42 Resp: 42087
Ion Ratio Lower Upper
42 100
74 128.7 99.2 148.8
44 11.9 6.4 9.6#





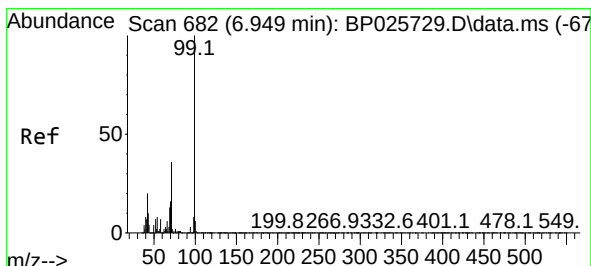
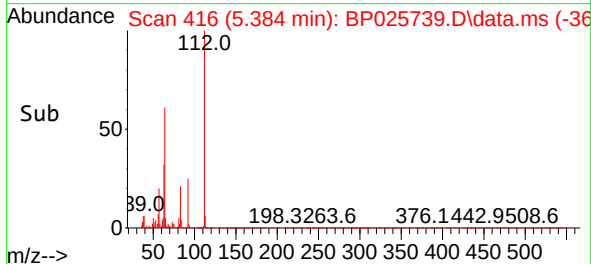
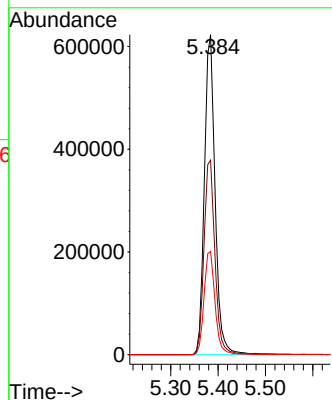
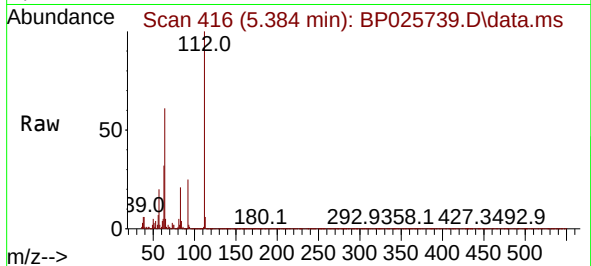
#5
2-Fluorophenol
Concen: 113.193 ng
RT: 5.384 min Scan# 416
Delta R.T. -0.000 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

Instrument :
BNA_P
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Tgt Ion:112 Resp: 977639
Ion Ratio Lower Upper
112 100
64 60.8 50.2 75.4
63 32.2 26.7 40.1

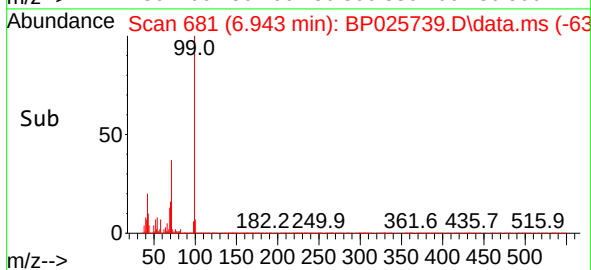
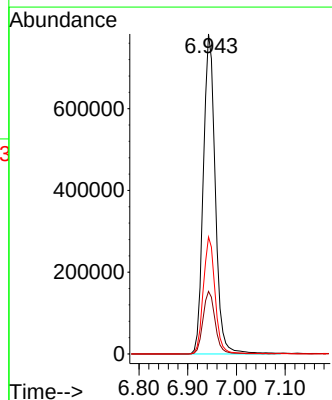
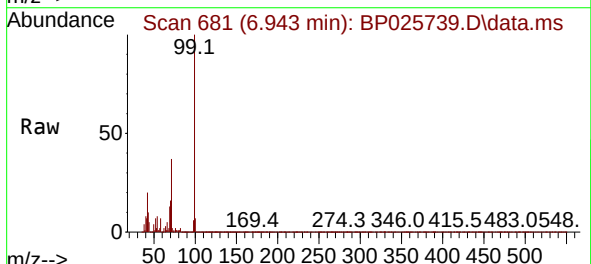
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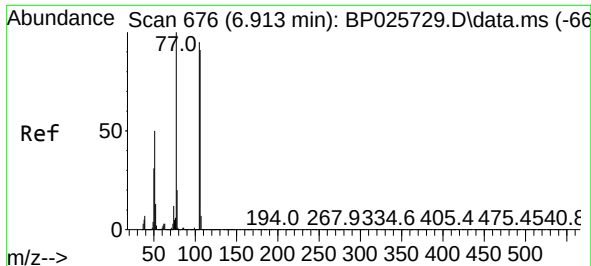
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Supervised By :Jagrut Upadhyay 09/15/2025



#7
Phenol-d6
Concen: 116.450 ng
RT: 6.943 min Scan# 681
Delta R.T. -0.006 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

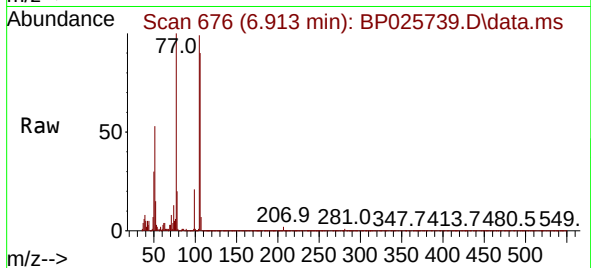
Tgt Ion: 99 Resp: 1336852
Ion Ratio Lower Upper
99 100
42 19.5 15.6 23.4
71 36.6 28.6 43.0





#9
Benzaldehyde
Concen: 12.038 ng
RT: 6.913 min Scan# 61
Delta R.T. -0.000 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

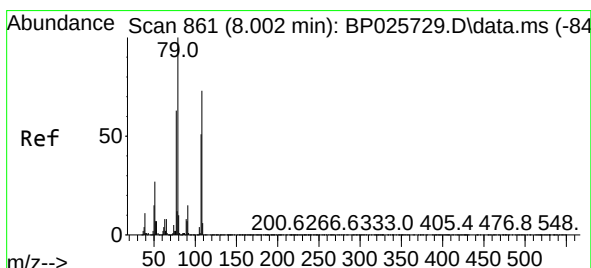
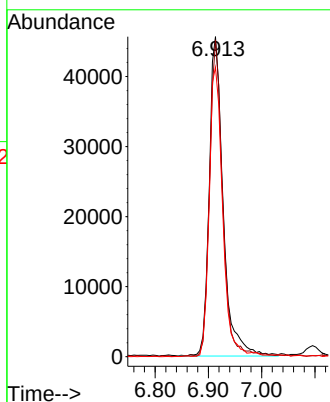
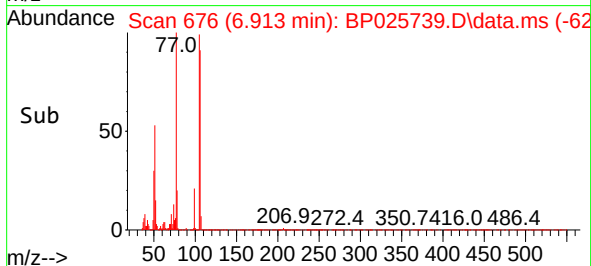
Instrument :
BNA_P
ClientSampleId :
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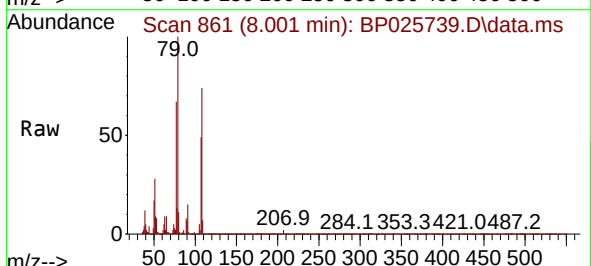
Tgt Ion: 77 Resp: 82834
Ion Ratio Lower Upper
77 100
105 99.0 75.2 115.2
106 90.4 71.3 111.3

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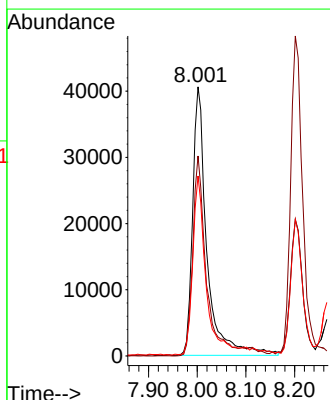
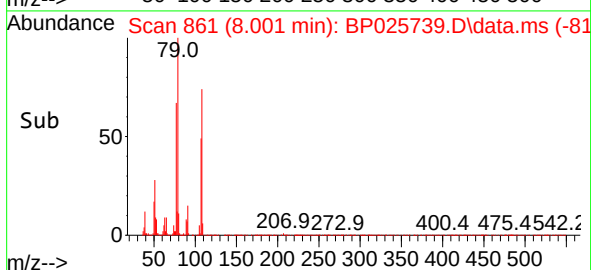
Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025

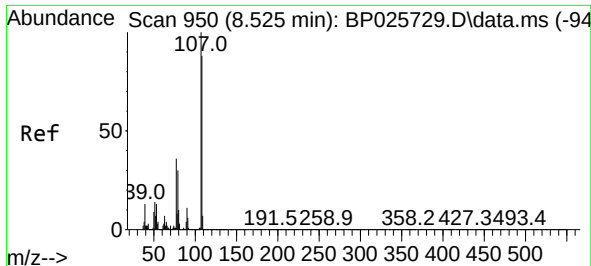


#15
Benzyl Alcohol
Concen: 8.783 ng
RT: 8.001 min Scan# 861
Delta R.T. -0.000 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46



Tgt Ion: 79 Resp: 83316
Ion Ratio Lower Upper
79 100
108 74.4 58.7 88.1
77 66.9 50.2 75.2





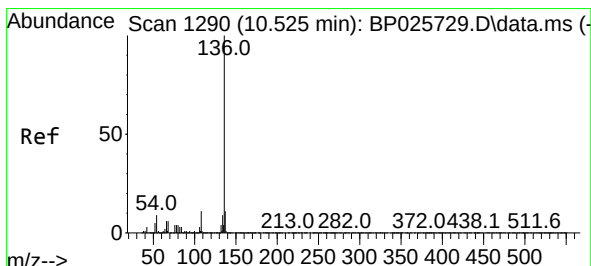
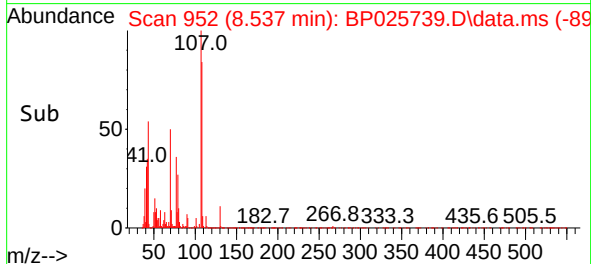
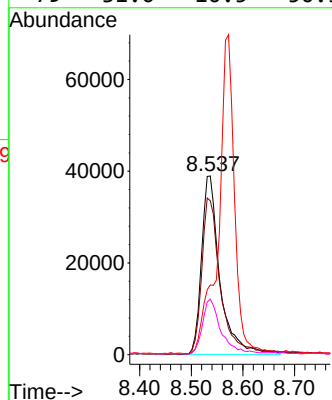
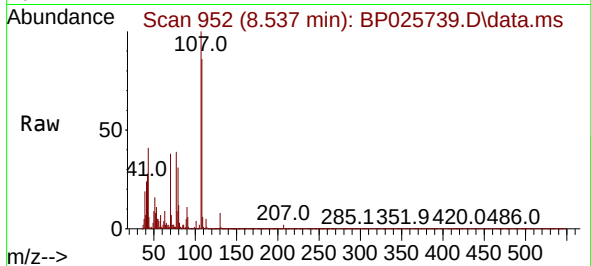
#20
3+4-Methylphenols
Concen: 8.377 ng
RT: 8.537 min Scan# 91
Delta R.T. 0.012 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

Tgt Ion:	107	Resp:	9574
Ion	Ratio	Lower	Upper
107	100		
108	86.1	67.8	107.8
77	39.0	16.1	56.1
79	31.0	10.5	50.5

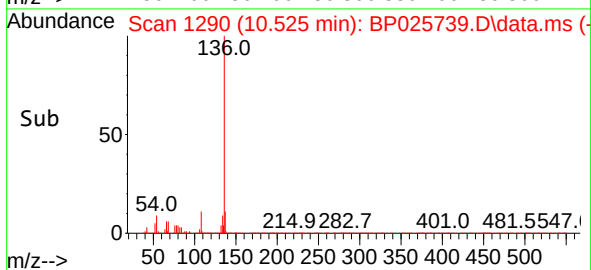
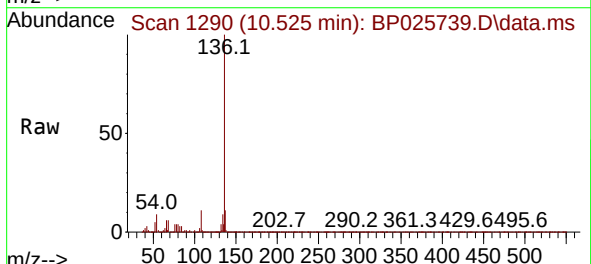
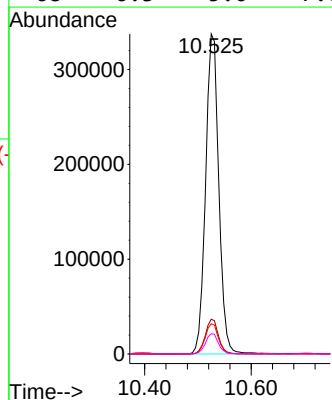
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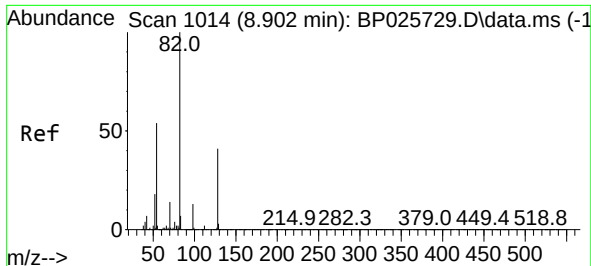
Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.525 min Scan# 1290
Delta R.T. -0.000 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

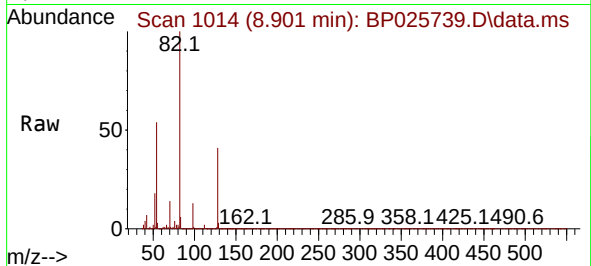
Tgt Ion:	136	Resp:	579948
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	9.5	7.5	11.3
68	6.3	5.0	7.6





#23
Nitrobenzene-d5
Concen: 75.487 ng
RT: 8.901 min Scan# 1014
Delta R.T. -0.000 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

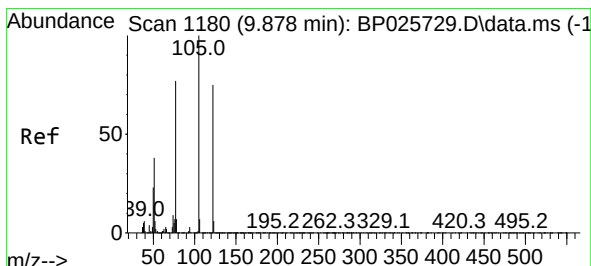
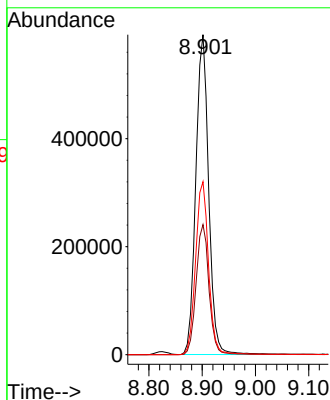
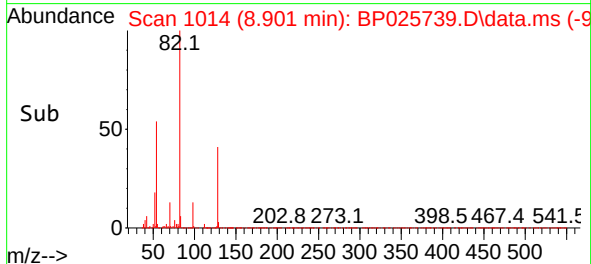
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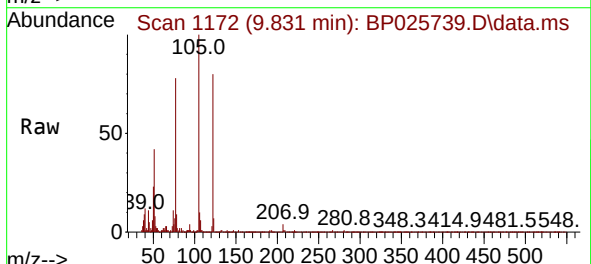
Tgt Ion: 82 Resp: 99246
Ion Ratio Lower Upper
82 100
128 40.7 32.9 49.3
54 54.1 43.4 65.2

Manual Integrations
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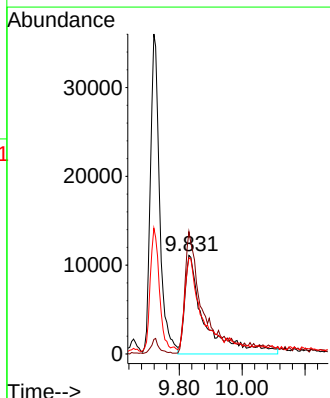
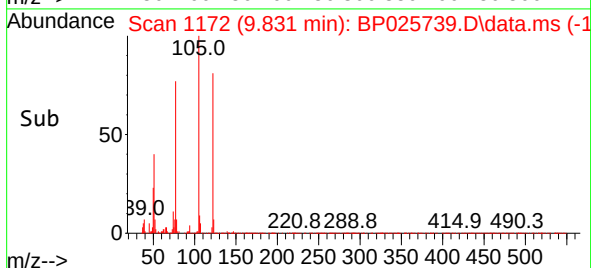
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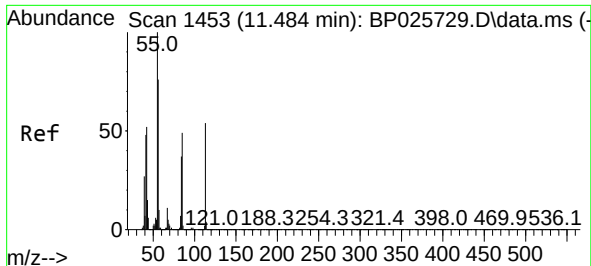


#32
Benzoic acid
Concen: 7.154 ng m
RT: 9.831 min Scan# 1172
Delta R.T. -0.047 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46



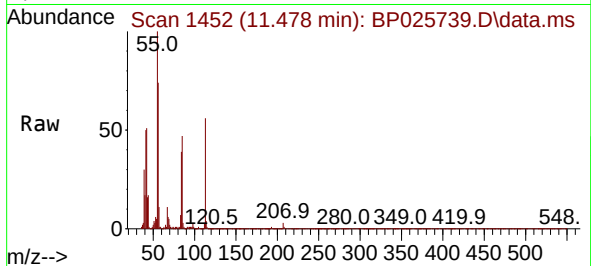
Tgt Ion:122 Resp: 48862
Ion Ratio Lower Upper
122 100
105 124.3 111.5 151.5
77 97.5 81.8 121.8





#35
 Caprolactam
 Concen: 7.972 ng
 RT: 11.478 min Scan# 1453
 Delta R.T. -0.006 min
 Lab File: BP025739.D
 Acq: 12 Sep 2025 11:46

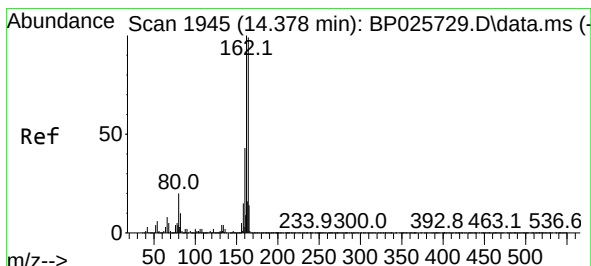
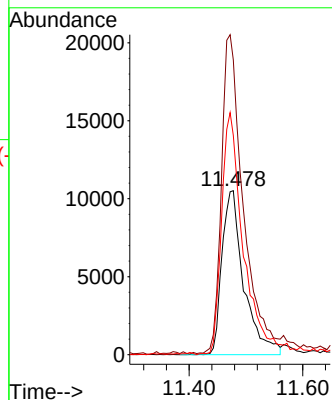
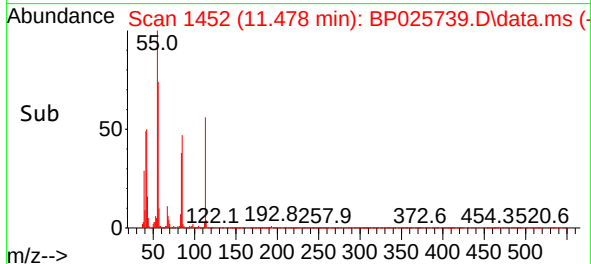
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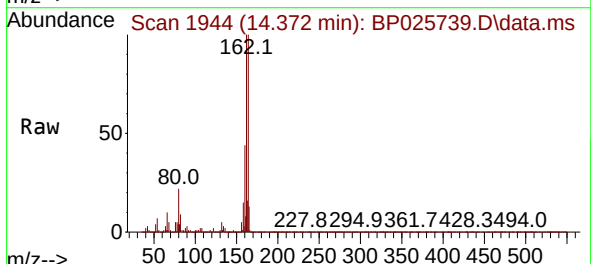
Tgt Ion:113 Resp: 28149
 Ion Ratio Lower Upper
 113 100
 55 179.7 165.5 205.5
 56 133.6 121.1 161.1

Manual Integrations
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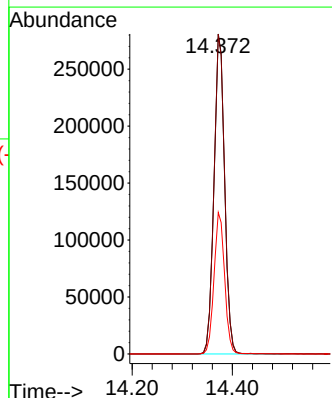
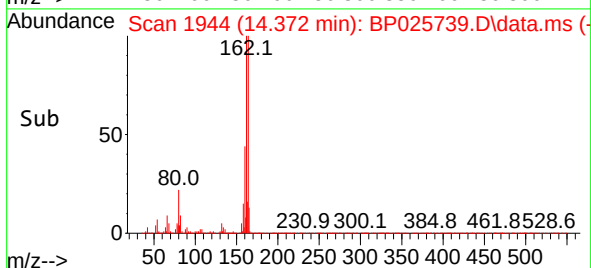
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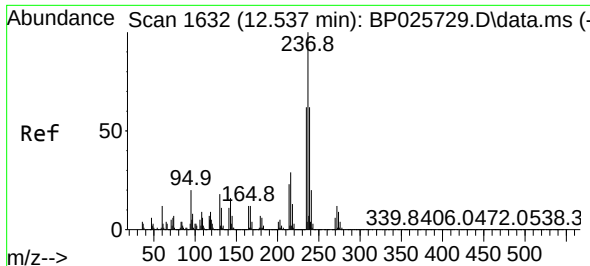


#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.372 min Scan# 1944
 Delta R.T. -0.006 min
 Lab File: BP025739.D
 Acq: 12 Sep 2025 11:46



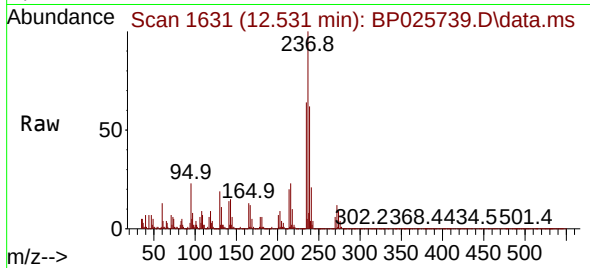
Tgt Ion:164 Resp: 410805
 Ion Ratio Lower Upper
 164 100
 162 99.8 80.6 120.8
 160 44.2 35.0 52.6





#41
Hexachlorocyclopentadiene
Concen: 5.315 ng
RT: 12.531 min Scan# 1631
Delta R.T. -0.006 min
Lab File: BP025739.D
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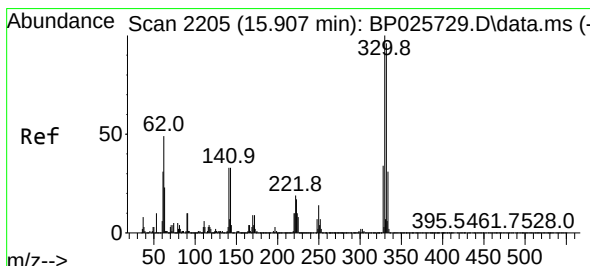
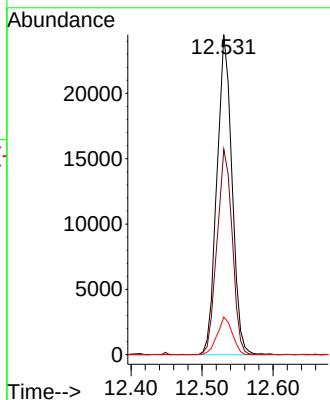
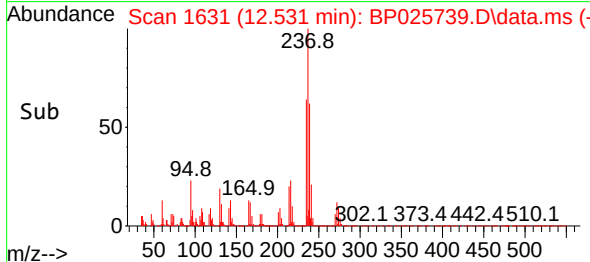
Instrument :
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LOQ-SOIL-02-QT3-2025



Tgt Ion: 237 Resp: 3603
Ion Ratio Lower Upper
237 100
235 64.2 41.9 81.9
272 11.7 0.0 31.8

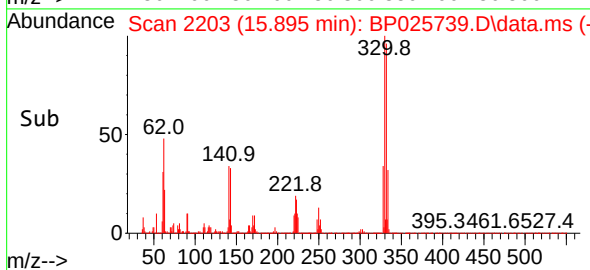
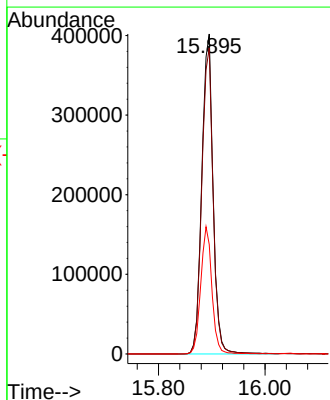
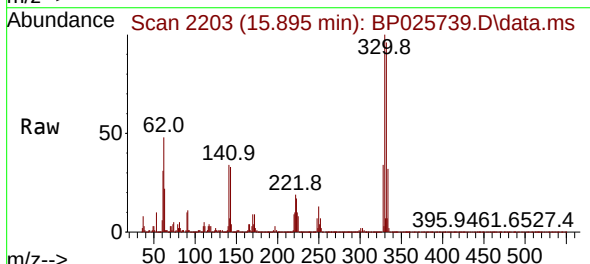
Manual Integrations
APPROVED

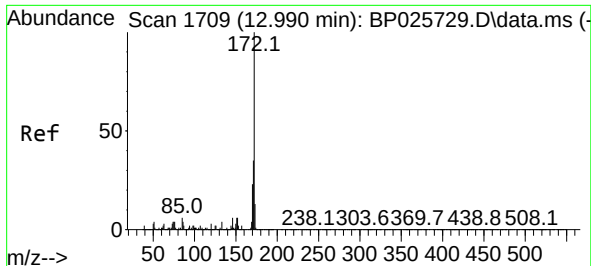
Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025



#42
2,4,6-Tribromophenol
Concen: 114.778 ng
RT: 15.895 min Scan# 2203
Delta R.T. -0.012 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

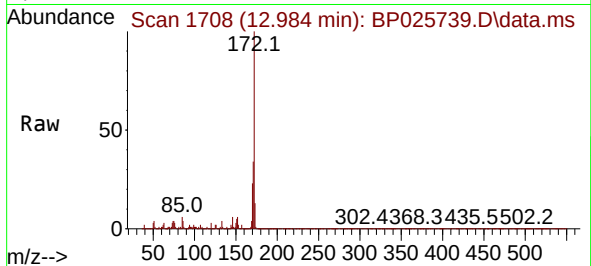
Tgt Ion: 330 Resp: 588120
Ion Ratio Lower Upper
330 100
332 96.4 76.9 115.3
141 39.5 31.0 46.4





#45
2-Fluorobiphenyl
Concen: 74.083 ng
RT: 12.984 min Scan# 1709
Delta R.T. -0.006 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

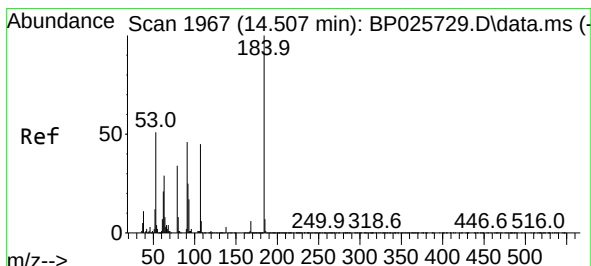
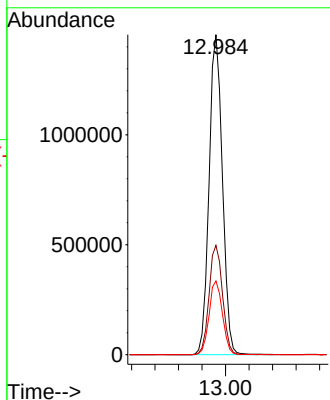
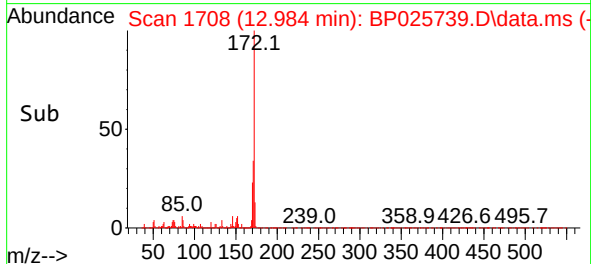
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025



Tgt Ion:172 Resp: 2285652
Ion Ratio Lower Upper
172 100
171 34.2 27.8 41.6
170 23.1 18.6 27.8

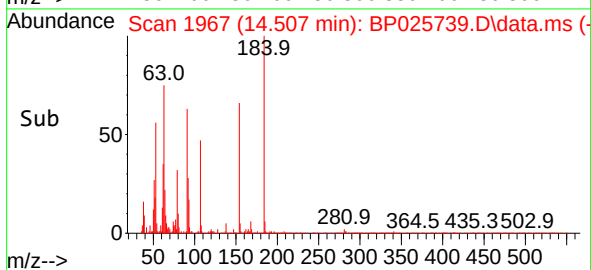
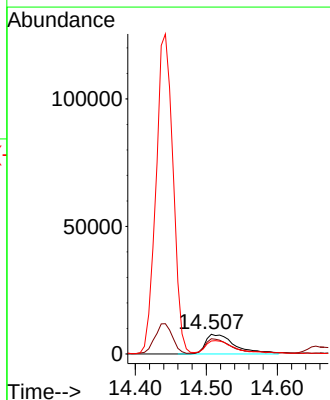
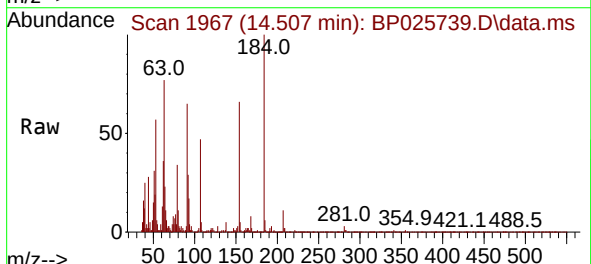
Manual Integrations
APPROVED

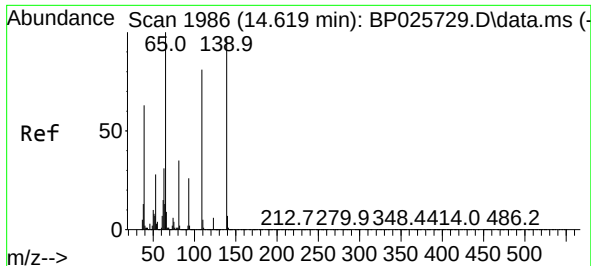
Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025



#54
2,4-Dinitrophenol
Concen: 9.664 ng
RT: 14.507 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

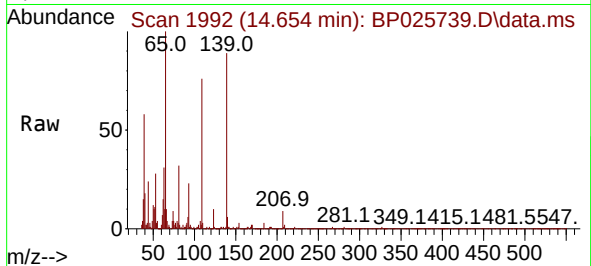
Tgt Ion:184 Resp: 22251
Ion Ratio Lower Upper
184 100
63 76.6 52.5 78.7
154 65.9 51.5 77.3





#56
4-Nitrophenol
Concen: 9.319 ng
RT: 14.654 min Scan# 1986
Delta R.T. 0.035 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

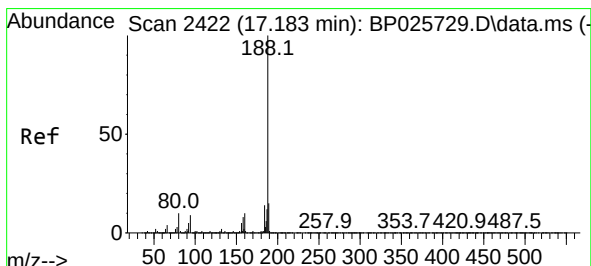
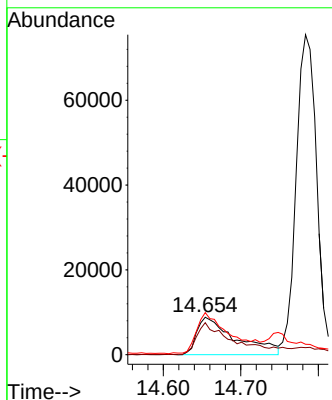
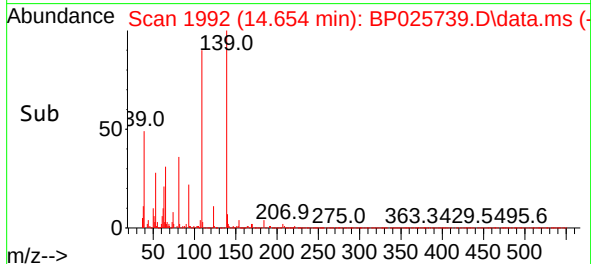
Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025



Tgt Ion:139 Resp: 30830
Ion Ratio Lower Upper
139 100
109 85.5 62.9 102.9
65 112.7 83.4 123.4

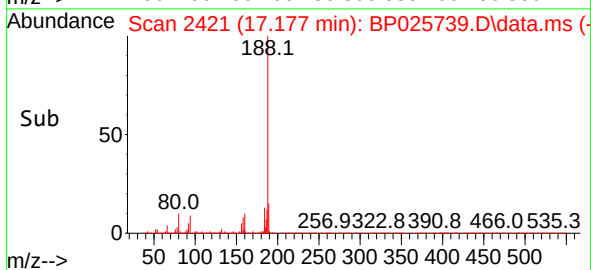
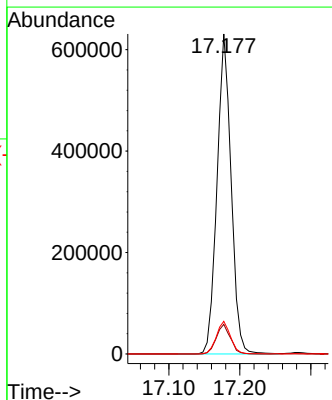
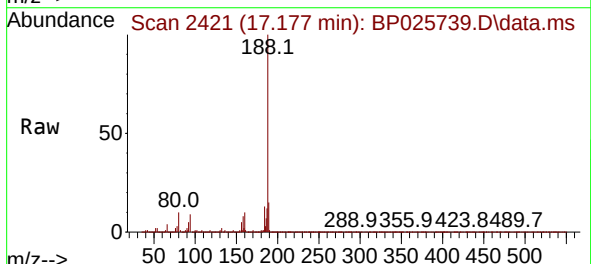
Manual Integrations
APPROVED

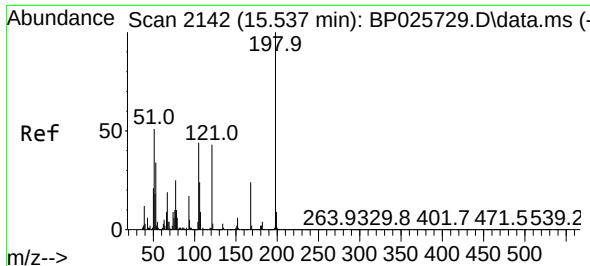
Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.177 min Scan# 2421
Delta R.T. -0.006 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

Tgt Ion:188 Resp: 867673
Ion Ratio Lower Upper
188 100
94 9.2 7.4 11.0
80 10.2 7.7 11.5





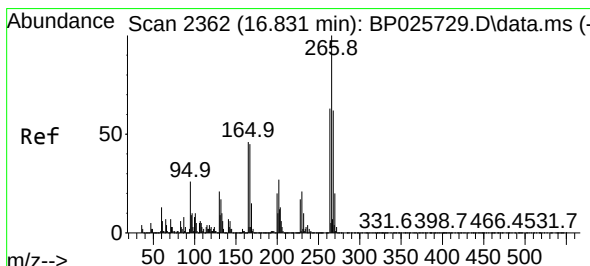
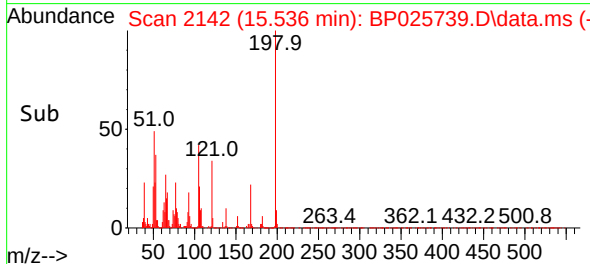
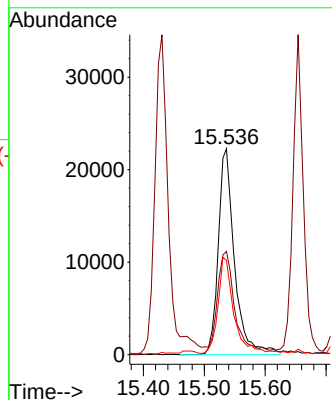
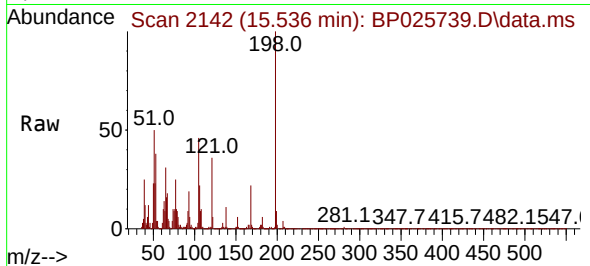
#65
4,6-Dinitro-2-methylphenol
Concen: 7.143 ng
RT: 15.536 min Scan# 2142
Delta R.T. -0.000 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

Instrument :
BNA_P
ClientSampleId :
LOQ-SOIL-02-QT3-2025

Tgt Ion:198 Resp: 41215
Ion Ratio Lower Upper
198 100
51 50.2 33.4 73.4
105 45.9 24.3 64.3

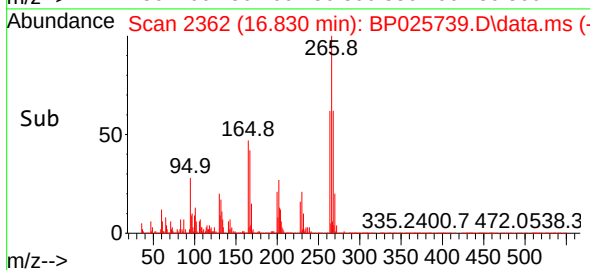
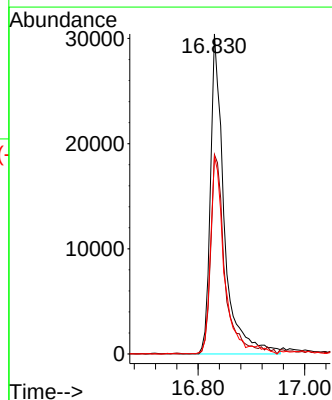
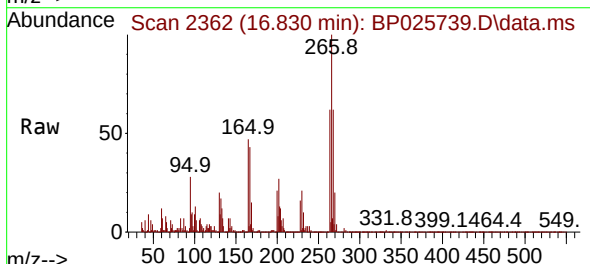
Manual Integrations
APPROVED

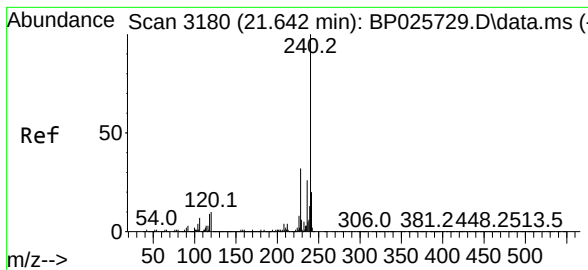
Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025



#70
Pentachlorophenol
Concen: 7.754 ng
RT: 16.830 min Scan# 2362
Delta R.T. -0.000 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

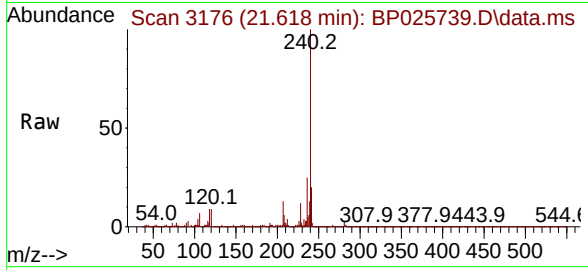
Tgt Ion:266 Resp: 54398
Ion Ratio Lower Upper
266 100
268 66.1 49.8 74.8
264 61.8 50.2 75.2





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.618 min Scan# 3180
Delta R.T. -0.024 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

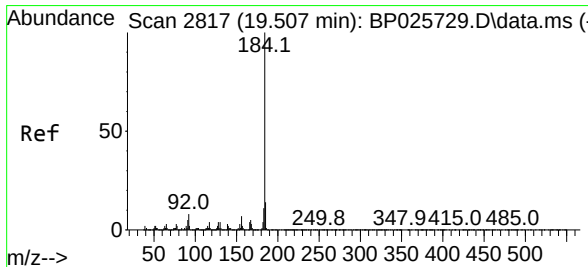
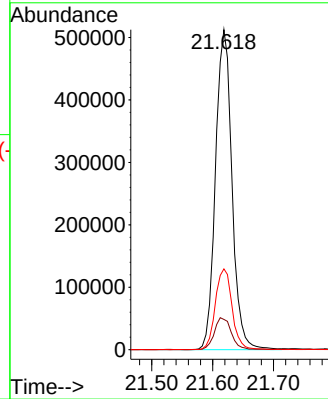
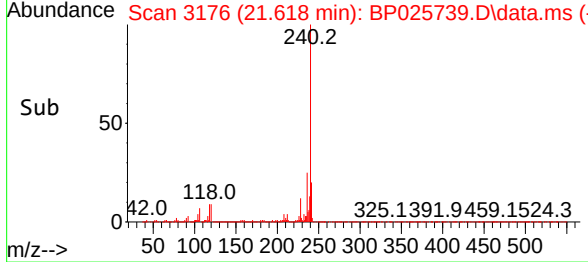
Instrument : BNA_P
ClientSampleId : LOQ-SOIL-02-QT3-2025



Tgt Ion:240 Resp: 96155
Ion Ratio Lower Upper
240 100
120 9.5 8.0 12.0
236 25.2 20.7 31.1

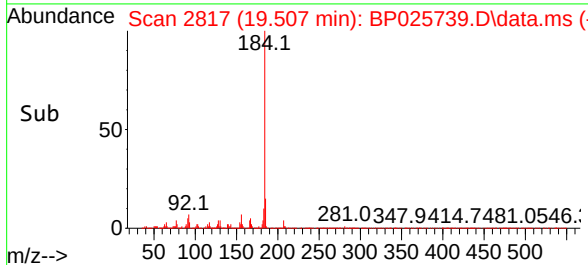
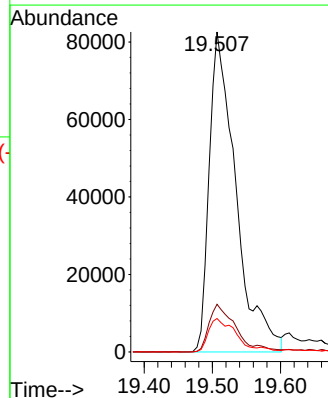
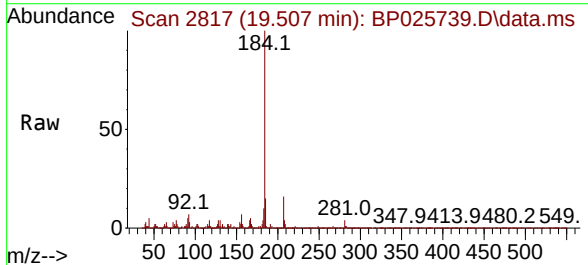
Manual Integrations
APPROVED

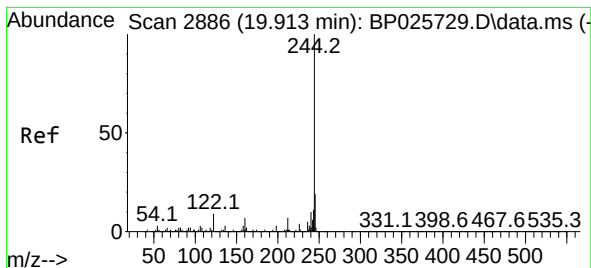
Reviewed By :Rahul Chavli 09/15/2025
Supervised By :Jagrut Upadhyay 09/15/2025



#77
Benzidine
Concen: 8.079 ng
RT: 19.507 min Scan# 2817
Delta R.T. -0.000 min
Lab File: BP025739.D
Acq: 12 Sep 2025 11:46

Tgt Ion:184 Resp: 223760
Ion Ratio Lower Upper
184 100
185 14.9 11.5 17.3
183 10.4 9.2 13.8





#79

Terphenyl-d14

Concen: 74.719 ng

RT: 19.895 min Scan# 21

Delta R.T. -0.018 min

Lab File: BP025739.D

Acq: 12 Sep 2025 11:46

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

Tgt Ion:244 Resp: 3993694

Ion Ratio Lower Upper

244 100

212 7.7 5.9 8.9

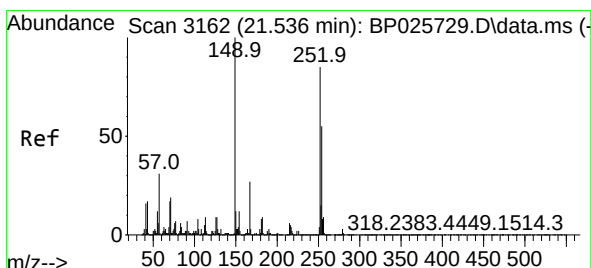
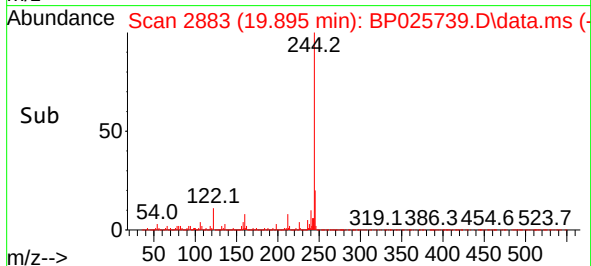
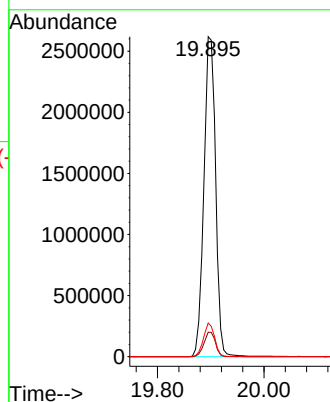
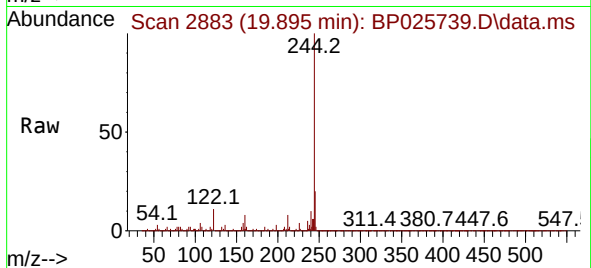
122 10.5 7.1 10.7

Manual Integrations

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Reviewed By :Rahul Chavli 09/15/2025

Supervised By :Jagrut Upadhyay 09/15/2025



#82

3,3'-Dichlorobenzidine

Concen: 8.800 ng

RT: 21.524 min Scan# 3160

Delta R.T. -0.012 min

Lab File: BP025739.D

Acq: 12 Sep 2025 11:46

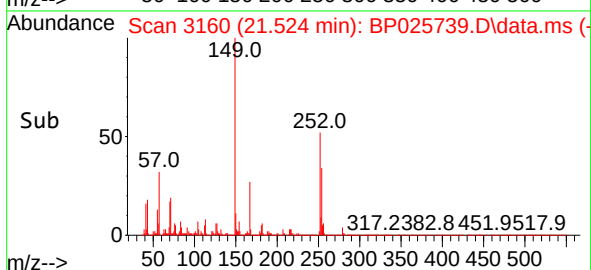
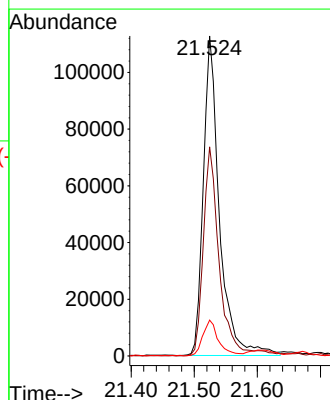
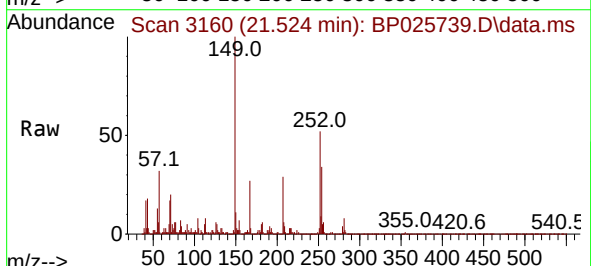
Tgt Ion:252 Resp: 200309

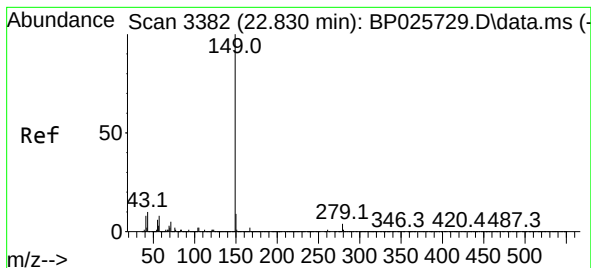
Ion Ratio Lower Upper

252 100

254 65.4 51.4 77.0

126 11.2 8.3 12.5





#85

Di-n-octyl phthalate

Concen: 8.171 ng

RT: 22.807 min Scan# 31

Delta R.T. -0.024 min

Lab File: BP025739.D

Acq: 12 Sep 2025 11:46

Instrument :

BNA_P

ClientSampleId :

LOQ-SOIL-02-QT3-2025

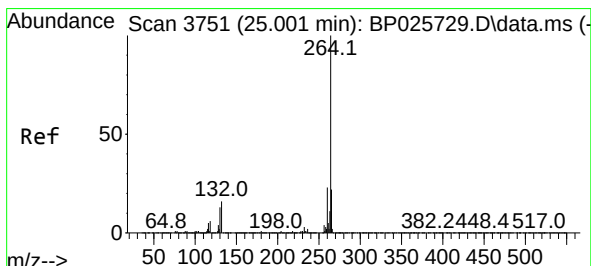
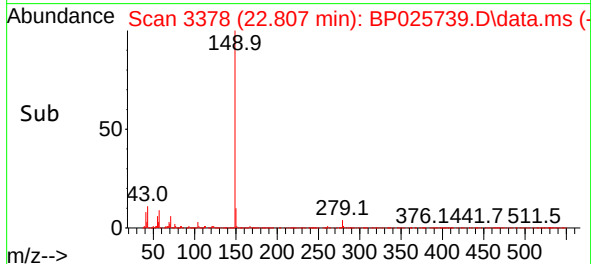
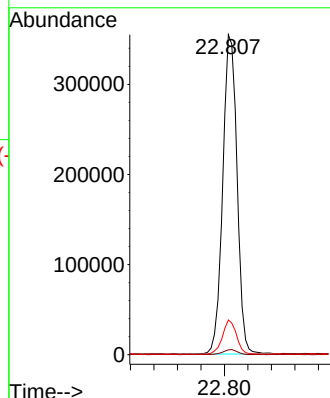
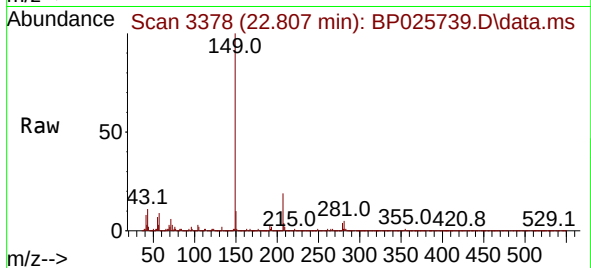
Tgt Ion:	149	Resp:	59824
Ion Ratio	Lower	Upper	
149	100		
167	1.6	1.3	1.9
43	10.5	8.0	12.0

Manual Integrations

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Reviewed By :Rahul Chavli 09/15/2025

Supervised By :Jagrut Upadhyay 09/15/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.977 min Scan# 3747

Delta R.T. -0.024 min

Lab File: BP025739.D

Acq: 12 Sep 2025 11:46

Tgt Ion:	264	Resp:	1023853
Ion Ratio	Lower	Upper	
264	100		
260	23.0	18.3	27.5
265	21.7	17.3	25.9

