

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
 Data File : BF143107.D
 Acq On : 16 Jul 2025 11:37
 Operator : RC/JU
 Sample : Q2126-02
 Misc : LOQ-SOIL-10 PPM
 ALS Vial : 5 Sample Multiplier: 1

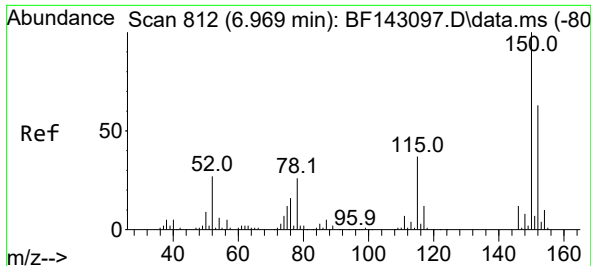
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2025

Quant Time: Jul 16 11:58:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 15 17:53:25 2025
 Response via : Initial Calibration

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

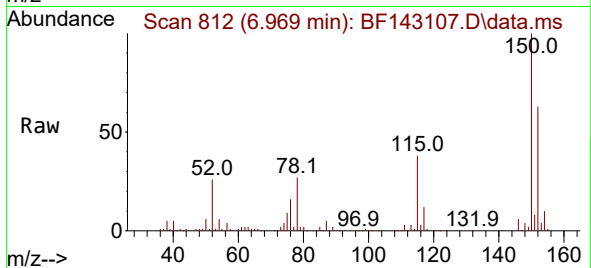
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.969	152	127325	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	489427	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	248832	20.000	ng	0.00
64) Phenanthrene-d10	11.492	188	398720	20.000	ng	0.00
76) Chrysene-d12	14.127	240	219247	20.000	ng	0.00
86) Perylene-d12	15.633	264	207078	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.592	112	903577	112.122	ng	0.00
7) Phenol-d6	6.587	99	1171297	115.627	ng	0.00
23) Nitrobenzene-d5	7.522	82	745082	85.401	ng	0.00
42) 2,4,6-Tribromophenol	10.792	330	282933	127.521	ng	0.00
45) 2-Fluorobiphenyl	9.322	172	1388517	74.176	ng	0.00
79) Terphenyl-d14	13.074	244	1213878	80.934	ng	0.00
Target Compounds						
						Qvalue
4) n-Nitrosodimethylamine	3.504	42	48867	9.285	ng	# 93
9) Benzaldehyde	6.516	77	75022	9.719	ng	99
15) Benzyl Alcohol	7.092	79	73440	9.784	ng	97
20) 3+4-Methylphenols	7.351	107	90818	10.598	ng	# 82
32) Benzoic acid	7.939	122	21613	11.310	ng	98
35) Caprolactam	8.633	113	17997	9.001	ng	98
41) Hexachlorocyclopentadiene	9.122	237	35719	8.884	ng	99
54) 2,4-Dinitrophenol	10.039	184	6097	11.721	ng	# 1
56) 4-Nitrophenol	10.080	139	23533	8.754	ng	99
65) 4,6-Dinitro-2-methylph...	10.580	198	9079	11.763	ng	94
70) Pentachlorophenol	11.292	266	22752	8.620	ng	98
77) Benzidine	12.816	184	74812	10.016	ng	95
82) 3,3'-Dichlorobenzidine	14.074	252	34347	8.096	ng	98
85) Di-n-octyl phthalate	14.727	149	64075	11.420	ng	96

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

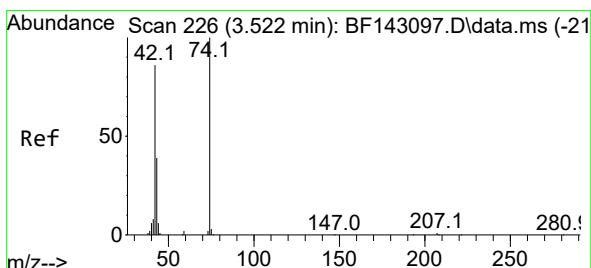
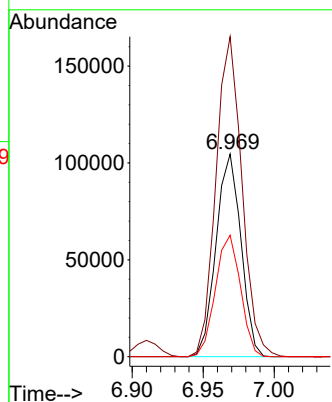
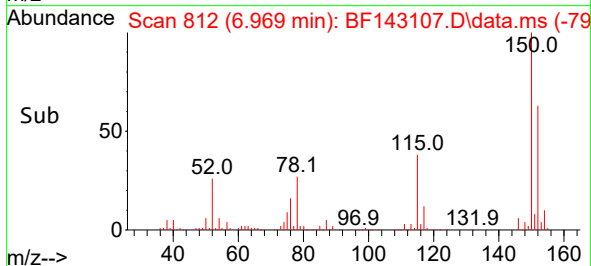


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

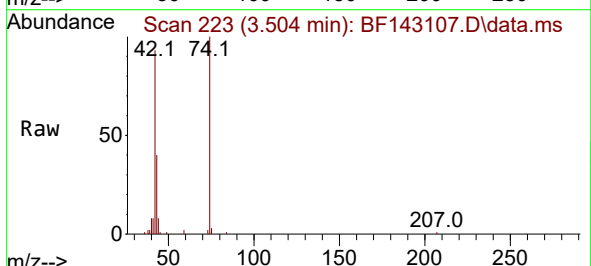
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2025



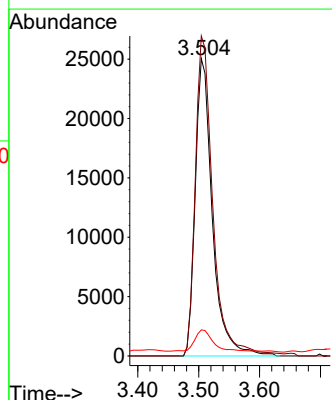
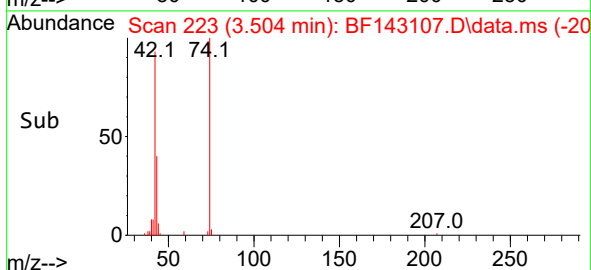
Tgt Ion:152 Resp: 127325
Ion Ratio Lower Upper
152 100
150 157.8 126.5 189.7
115 59.9 47.0 70.6

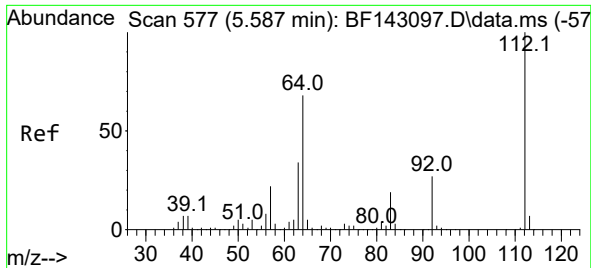


#4
n-Nitrosodimethylamine
Concen: 9.285 ng
RT: 3.504 min Scan# 223
Delta R.T. -0.018 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37



Tgt Ion: 42 Resp: 48867
Ion Ratio Lower Upper
42 100
74 107.6 92.8 139.2
44 8.8 5.8 8.6#

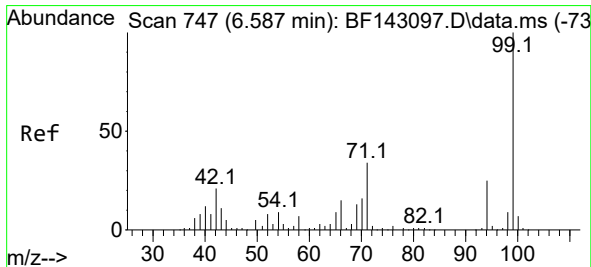
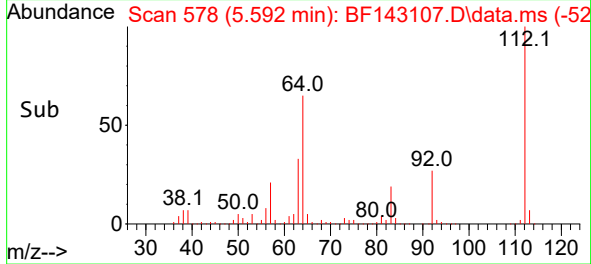
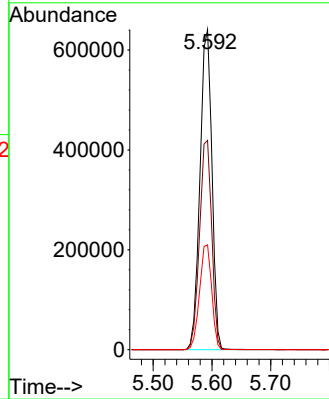
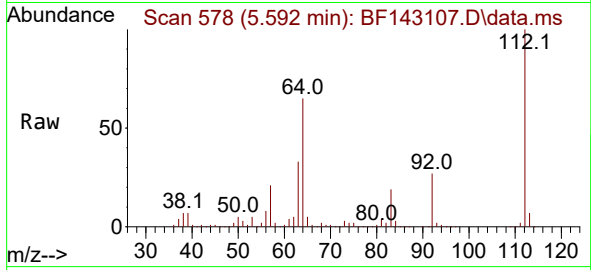




#5
2-Fluorophenol
Concen: 112.122 ng
RT: 5.592 min Scan# 51
Delta R.T. 0.006 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

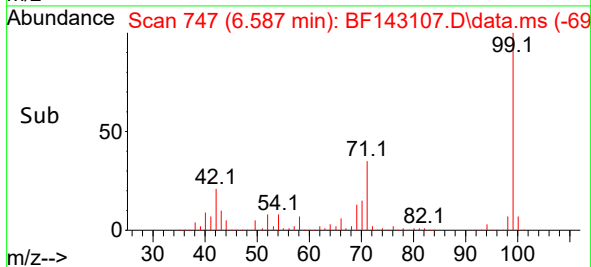
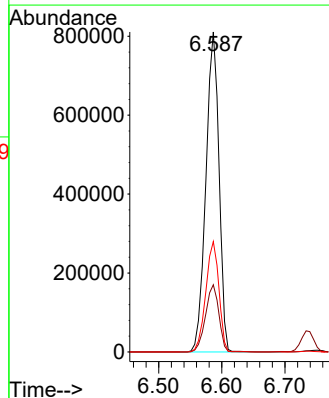
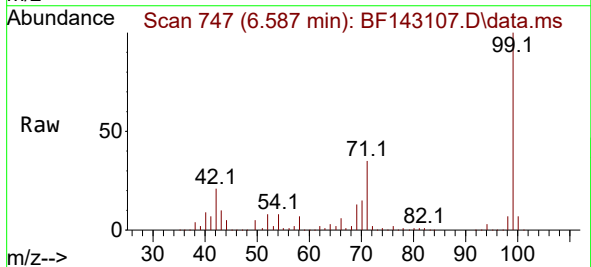
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2025

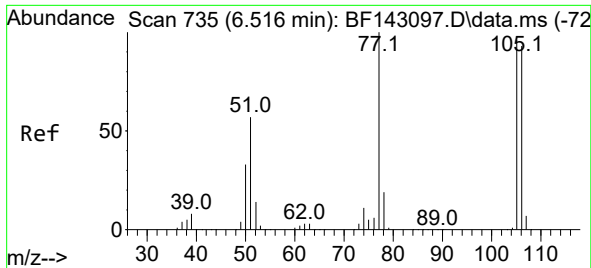
Tgt Ion:112 Resp: 903577
Ion Ratio Lower Upper
112 100
64 65.4 54.6 82.0
63 32.8 27.3 40.9



#7
Phenol-d6
Concen: 115.627 ng
RT: 6.587 min Scan# 747
Delta R.T. -0.000 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

Tgt Ion: 99 Resp: 1171297
Ion Ratio Lower Upper
99 100
42 21.0 17.2 25.8
71 34.5 27.4 41.0





#9

Benzaldehyde

Concen: 9.719 ng

RT: 6.516 min Scan# 71

Delta R.T. -0.000 min

Lab File: BF143107.D

Acq: 16 Jul 2025 11:37

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2025

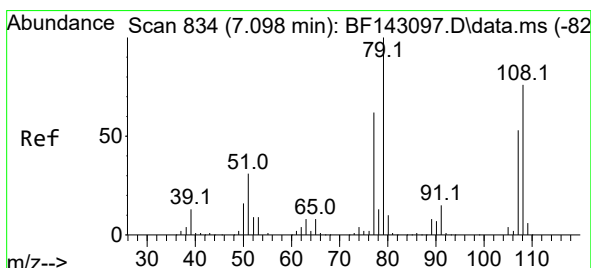
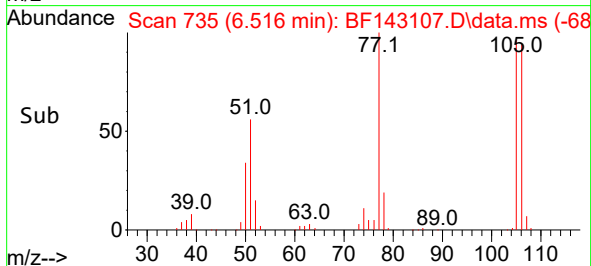
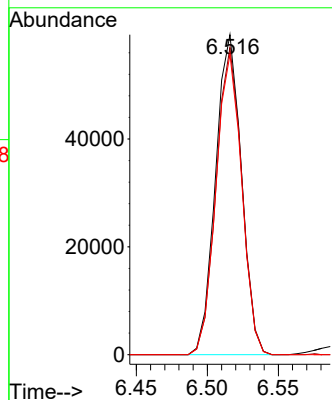
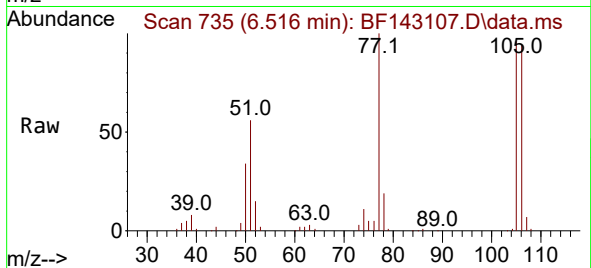
Tgt Ion: 77 Resp: 75022

Ion Ratio Lower Upper

77 100

105 96.0 76.3 116.3

106 93.9 72.8 112.8



#15

Benzyl Alcohol

Concen: 9.784 ng

RT: 7.092 min Scan# 833

Delta R.T. -0.006 min

Lab File: BF143107.D

Acq: 16 Jul 2025 11:37

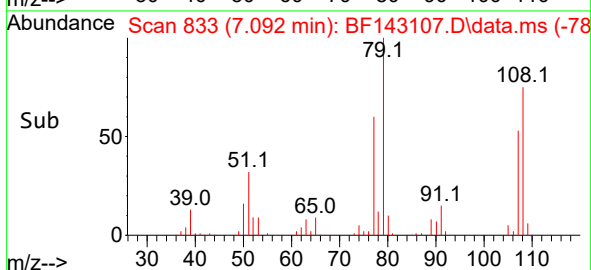
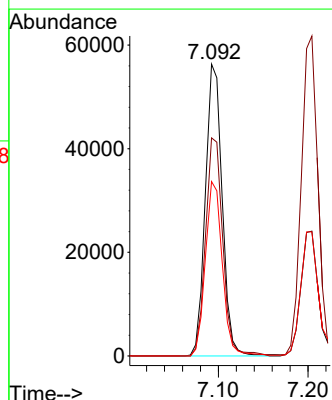
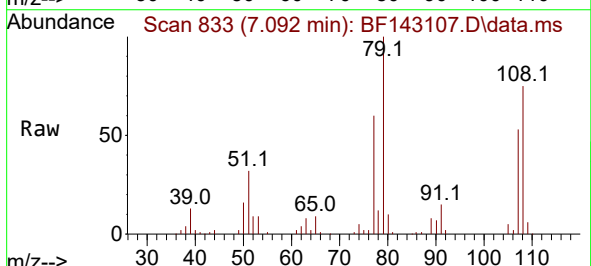
Tgt Ion: 79 Resp: 73440

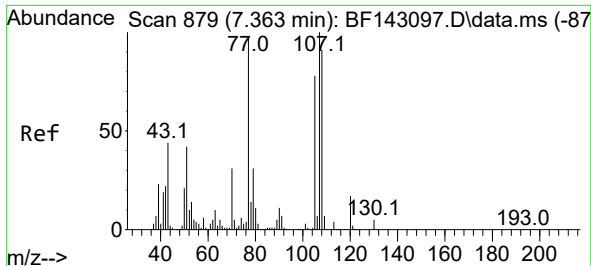
Ion Ratio Lower Upper

79 100

108 74.8 61.1 91.7

77 59.8 49.9 74.9

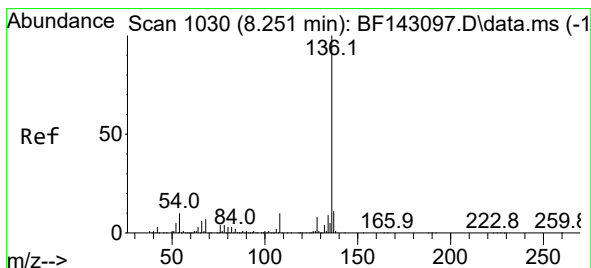
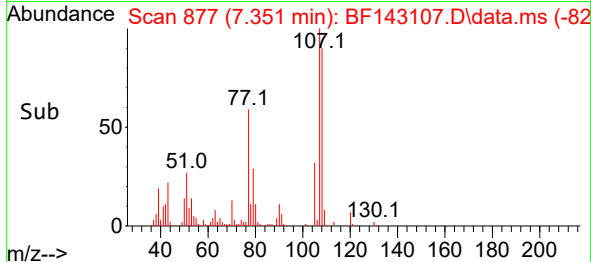
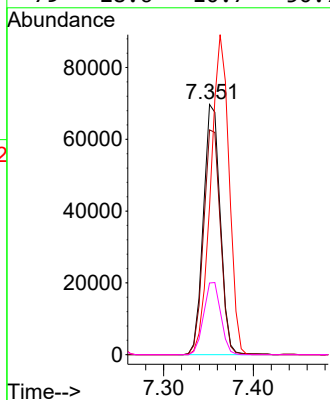
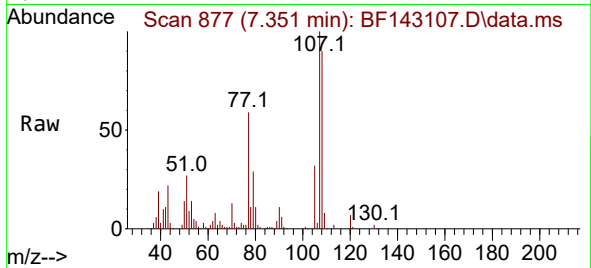




#20
3+4-Methylphenols
Concen: 10.598 ng
RT: 7.351 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

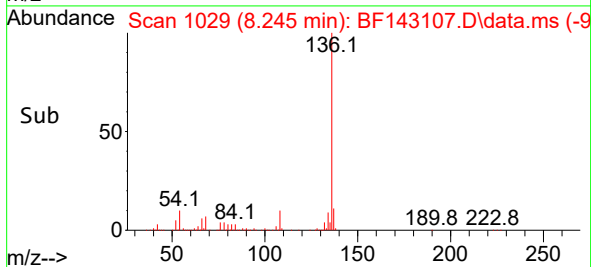
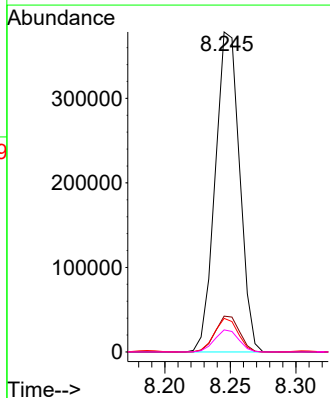
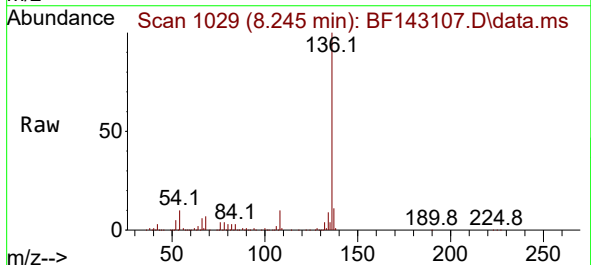
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2025

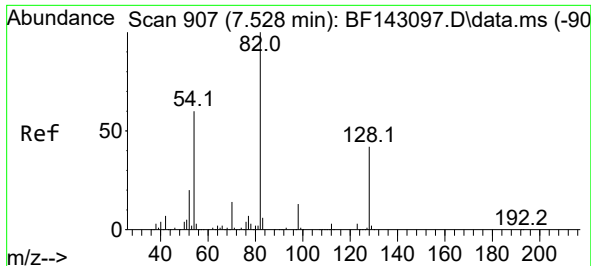
Tgt Ion:	107	Resp:	90818
Ion	Ratio	Lower	Upper
107	100		
108	89.8	71.3	111.3
77	59.3	77.2	117.2#
79	28.6	10.7	50.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

Tgt Ion:	136	Resp:	489427
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	10.5	8.3	12.5
68	6.9	5.3	7.9

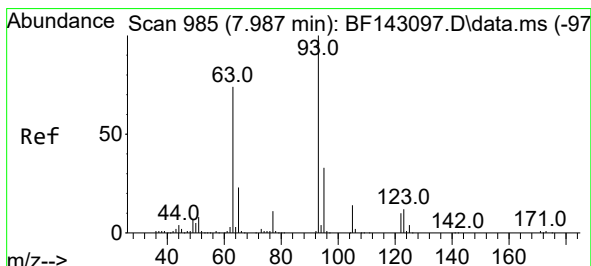
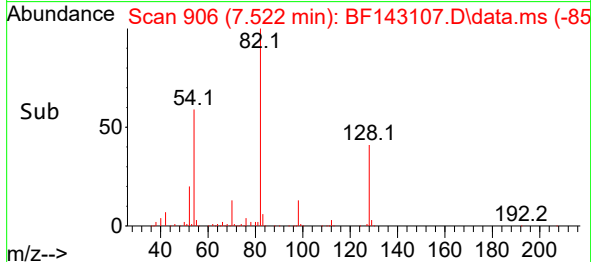
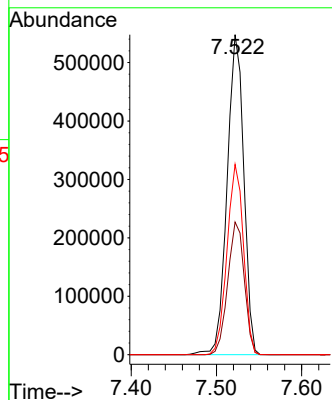
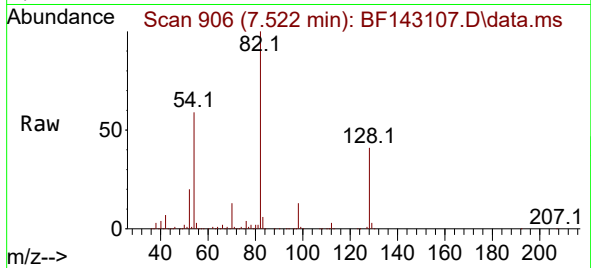




#23
Nitrobenzene-d5
Concen: 85.401 ng
RT: 7.522 min Scan# 907
Delta R.T. -0.006 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

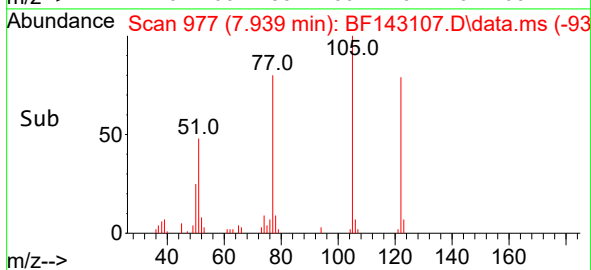
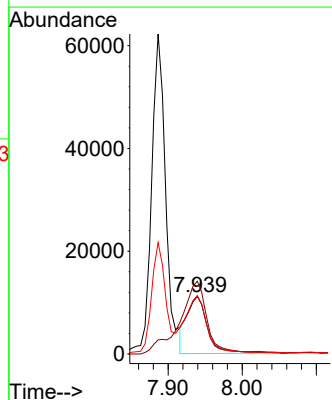
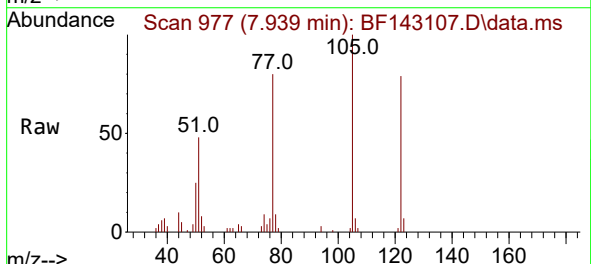
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2025

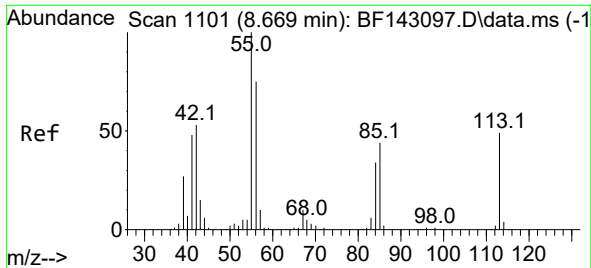
Tgt Ion: 82 Resp: 745082
Ion Ratio Lower Upper
82 100
128 41.4 33.3 49.9
54 59.4 47.4 71.2



#32
Benzoic acid
Concen: 11.310 ng
RT: 7.939 min Scan# 977
Delta R.T. -0.048 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

Tgt Ion:122 Resp: 21613
Ion Ratio Lower Upper
122 100
105 126.8 105.4 145.4
77 101.7 78.6 118.6

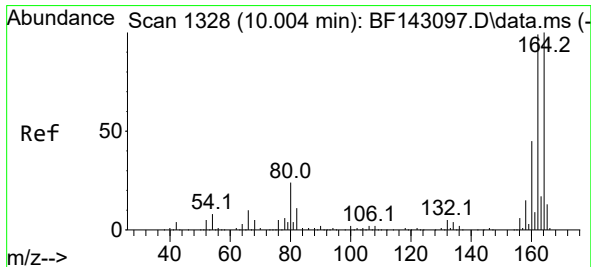
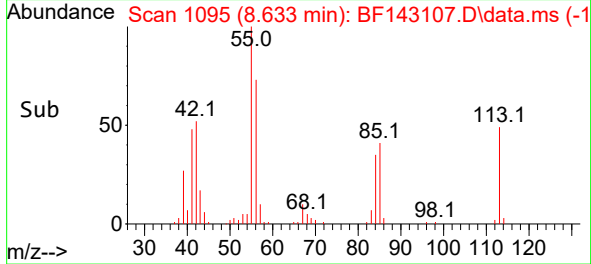
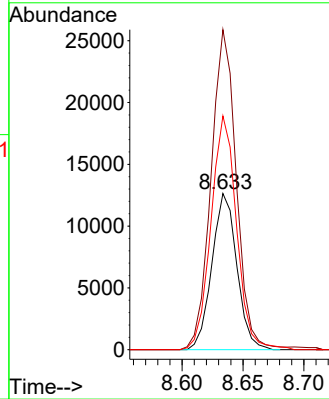
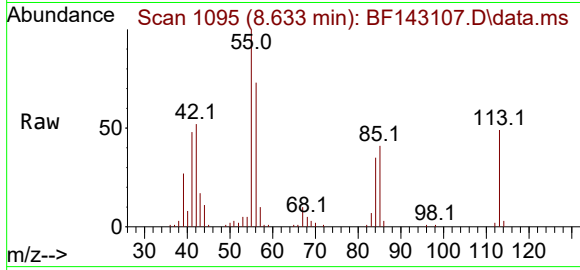




#35
 Caprolactam
 Concen: 9.001 ng
 RT: 8.633 min Scan# 1101
 Delta R.T. -0.035 min
 Lab File: BF143107.D
 Acq: 16 Jul 2025 11:37

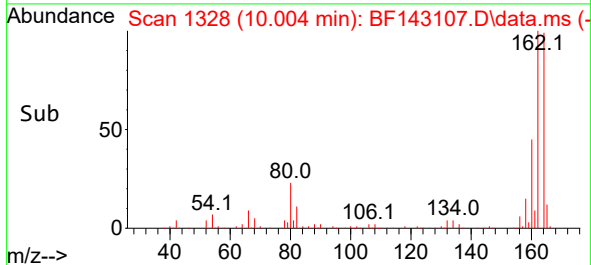
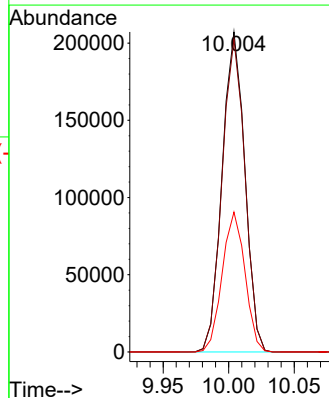
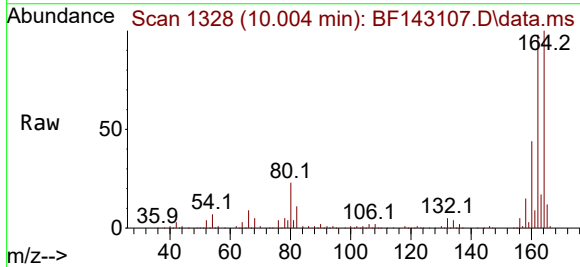
Instrument :
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 LOQ-SOIL-02-QT2-2025

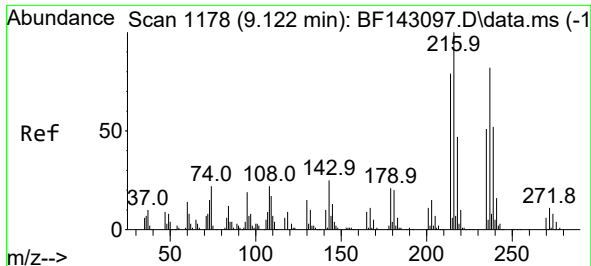
Tgt Ion:113 Resp: 17997
 Ion Ratio Lower Upper
 113 100
 55 204.9 186.2 226.2
 56 149.7 134.1 174.1



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.004 min Scan# 1328
 Delta R.T. -0.000 min
 Lab File: BF143107.D
 Acq: 16 Jul 2025 11:37

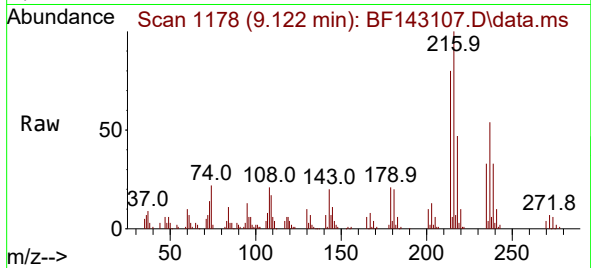
Tgt Ion:164 Resp: 248832
 Ion Ratio Lower Upper
 164 100
 162 97.7 79.0 118.6
 160 43.7 35.8 53.6



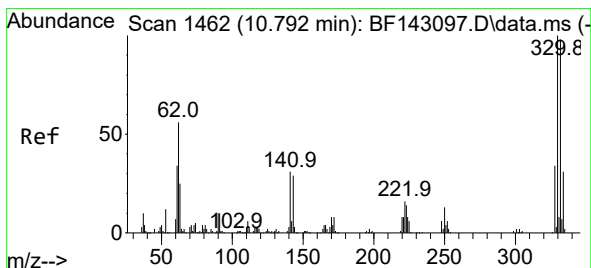
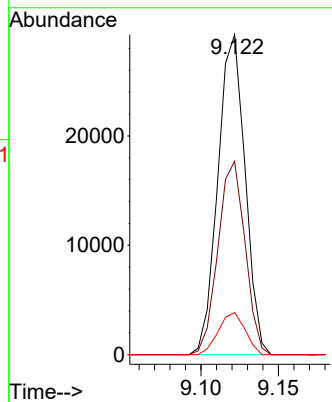
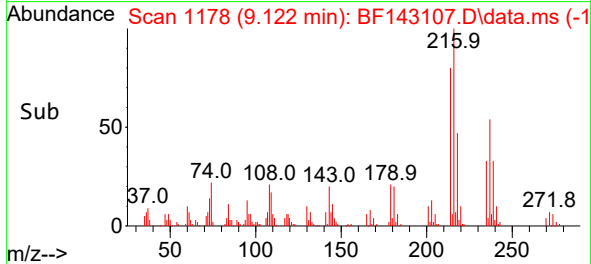


#41
Hexachlorocyclopentadiene
Concen: 8.884 ng
RT: 9.122 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

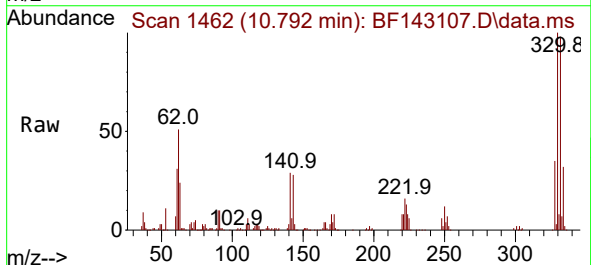
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ClientSampleId :
LOQ-SOIL-02-QT2-2025



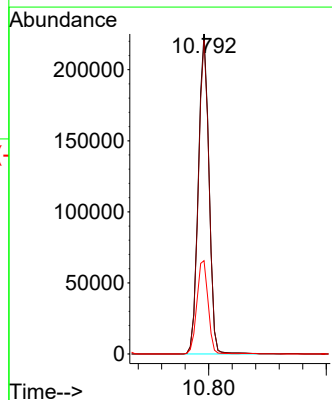
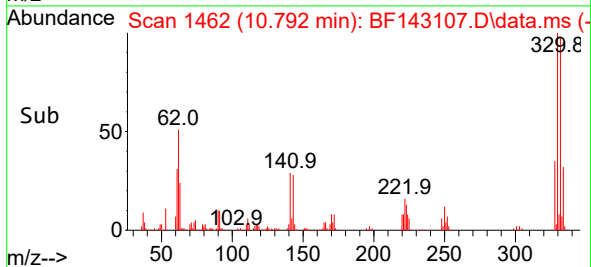
Tgt Ion: 237 Resp: 35719
Ion Ratio Lower Upper
237 100
235 60.5 41.6 81.6
272 13.2 0.0 32.9

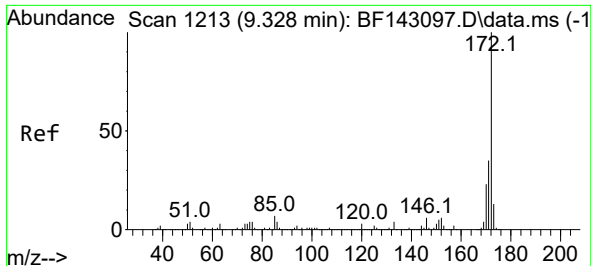


#42
2,4,6-Tribromophenol
Concen: 127.521 ng
RT: 10.792 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37



Tgt Ion: 330 Resp: 282933
Ion Ratio Lower Upper
330 100
332 98.1 77.9 116.9
141 30.6 25.9 38.9

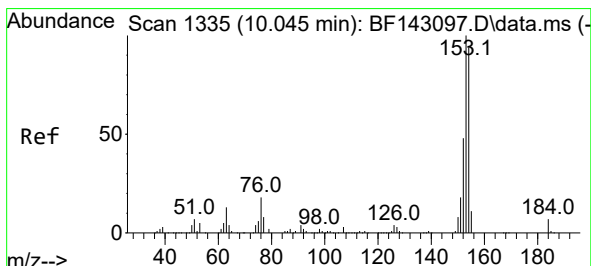
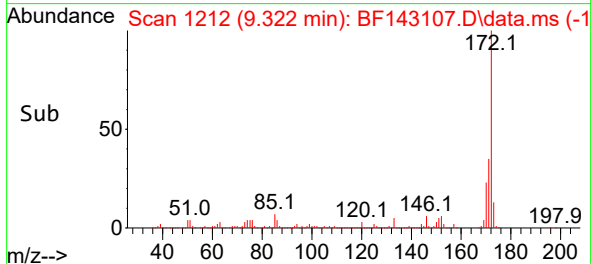
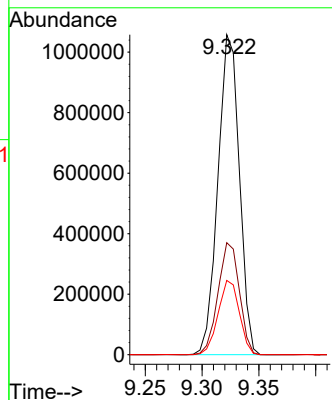
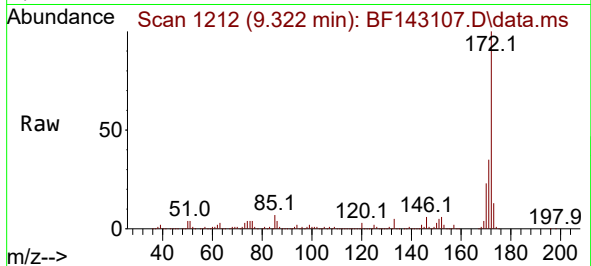




#45
2-Fluorobiphenyl
Concen: 74.176 ng
RT: 9.322 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

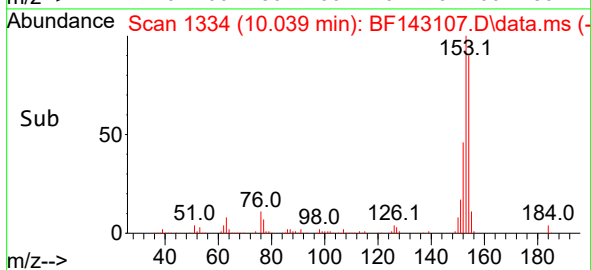
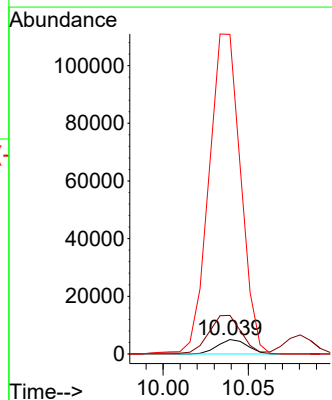
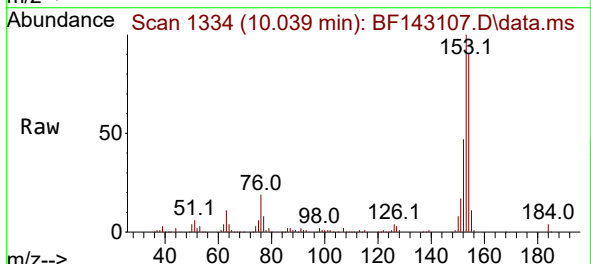
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2025

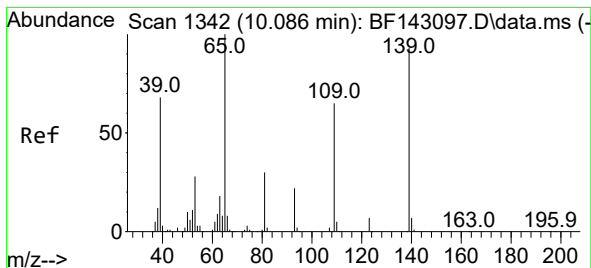
Tgt Ion:172 Resp: 1388517
Ion Ratio Lower Upper
172 100
171 35.0 28.2 42.4
170 23.2 18.6 28.0



#54
2,4-Dinitrophenol
Concen: 11.721 ng
RT: 10.039 min Scan# 1334
Delta R.T. -0.006 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

Tgt Ion:184 Resp: 6097
Ion Ratio Lower Upper
184 100
63 268.0 149.3 223.9#
154 2220.8 1048.0 1572.0#





#56

4-Nitrophenol

Concen: 8.754 ng

RT: 10.080 min Scan# 1342

Delta R.T. -0.006 min

Lab File: BF143107.D

Acq: 16 Jul 2025 11:37

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2025

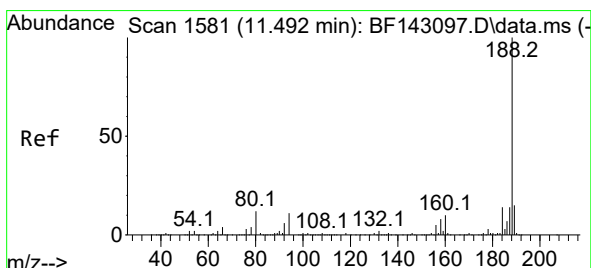
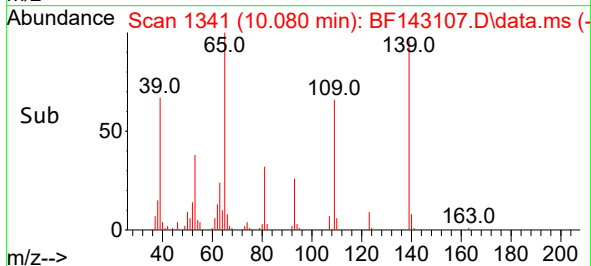
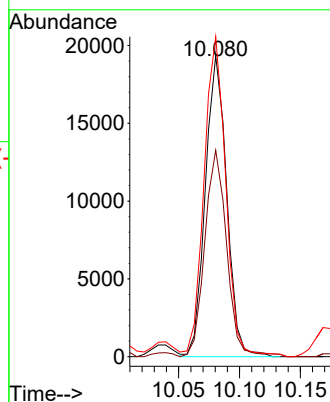
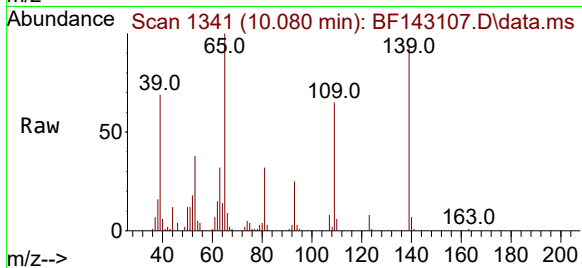
Tgt Ion:139 Resp: 23533

Ion Ratio Lower Upper

139 100

109 68.6 49.4 89.4

65 106.3 88.2 128.2



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.492 min Scan# 1581

Delta R.T. 0.000 min

Lab File: BF143107.D

Acq: 16 Jul 2025 11:37

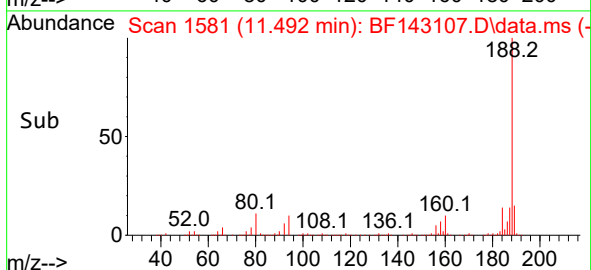
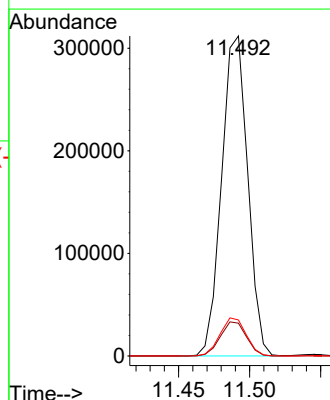
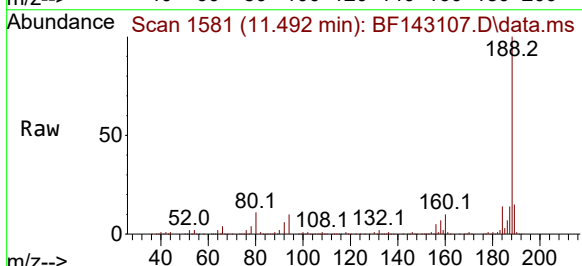
Tgt Ion:188 Resp: 398720

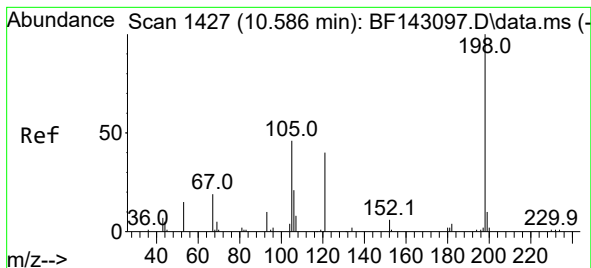
Ion Ratio Lower Upper

188 100

94 10.2 8.6 13.0

80 11.2 9.3 13.9

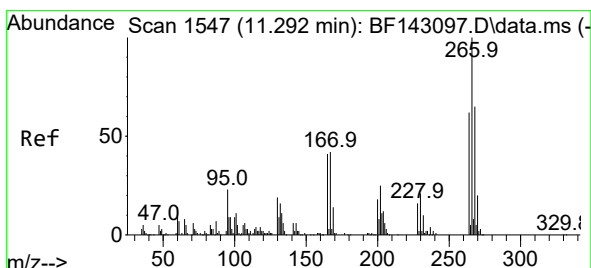
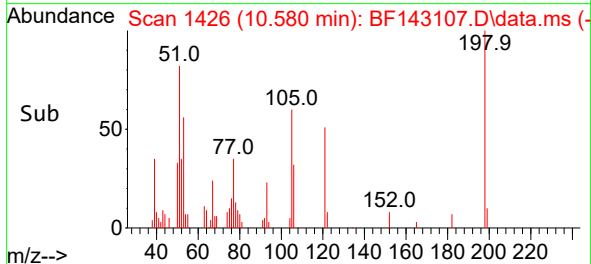
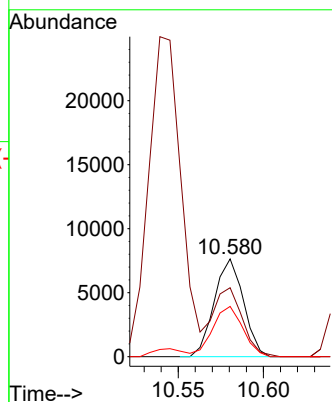
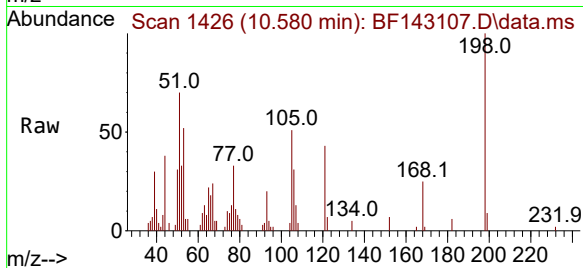




#65
4,6-Dinitro-2-methylphenol
Concen: 11.763 ng
RT: 10.580 min Scan# 1427
Delta R.T. -0.006 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

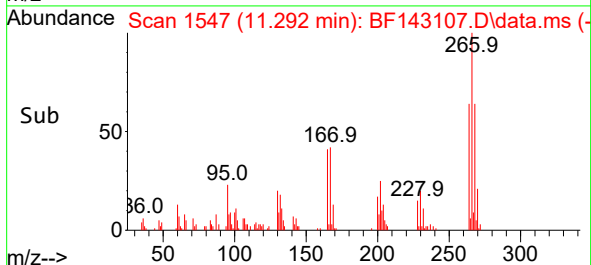
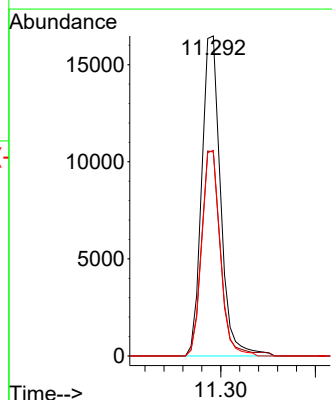
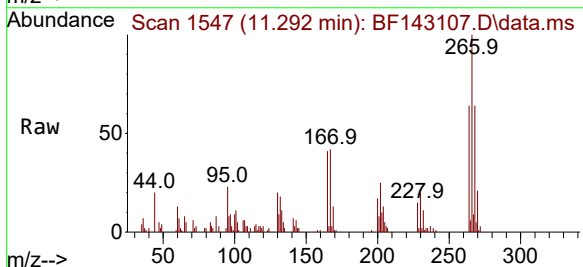
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2025

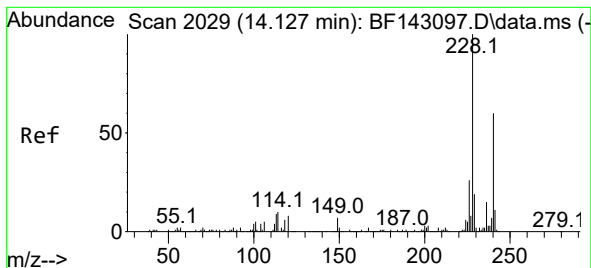
Tgt Ion:198 Resp: 9079
Ion Ratio Lower Upper
198 100
51 70.5 44.6 84.6
105 51.4 29.3 69.3



#70
Pentachlorophenol
Concen: 8.620 ng
RT: 11.292 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

Tgt Ion:266 Resp: 22752
Ion Ratio Lower Upper
266 100
268 63.7 51.8 77.6
264 64.2 49.7 74.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.127 min Scan# 2029

Delta R.T. -0.000 min

Lab File: BF143107.D

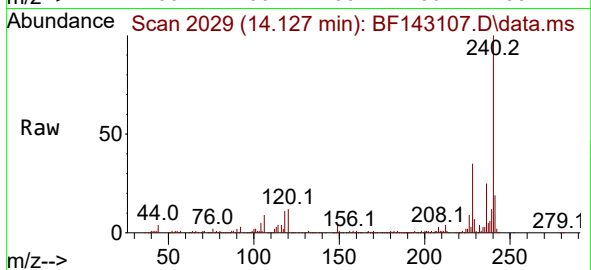
Acq: 16 Jul 2025 11:37

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2025



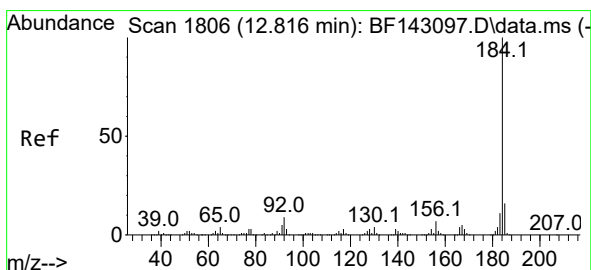
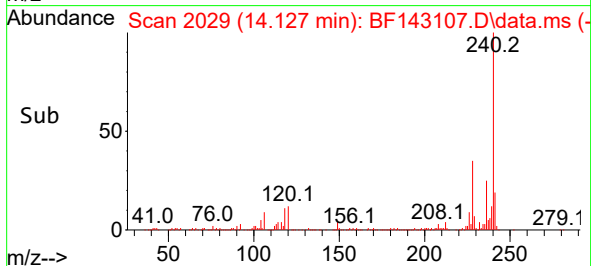
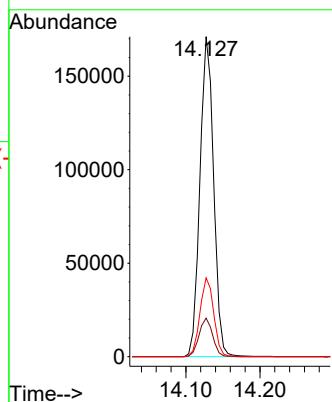
Tgt Ion:240 Resp: 219247

Ion Ratio Lower Upper

240 100

120 12.1 10.0 15.0

236 24.6 20.0 30.0



#77

Benzidine

Concen: 10.016 ng

RT: 12.816 min Scan# 1806

Delta R.T. -0.000 min

Lab File: BF143107.D

Acq: 16 Jul 2025 11:37

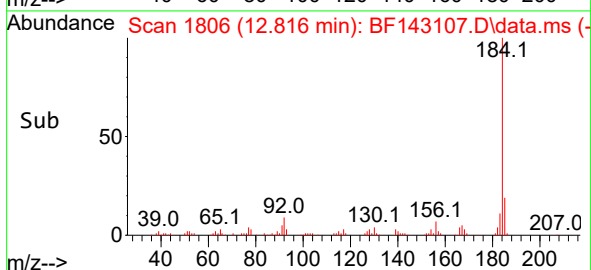
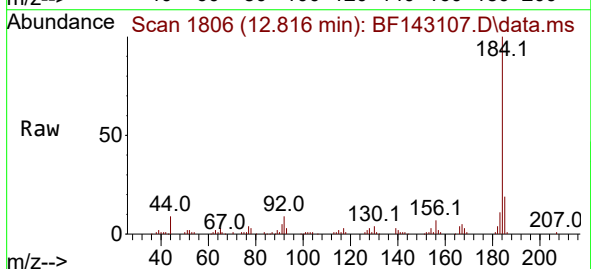
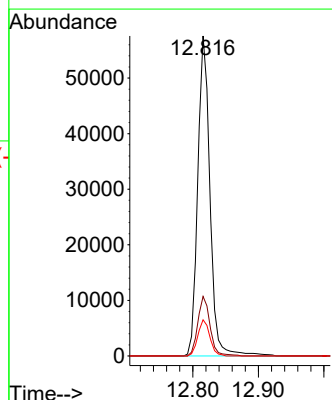
Tgt Ion:184 Resp: 74812

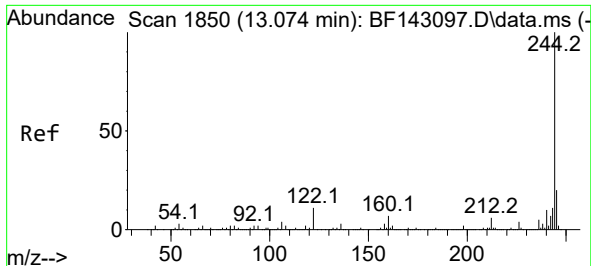
Ion Ratio Lower Upper

184 100

185 18.6 12.4 18.6

183 11.3 8.6 12.8

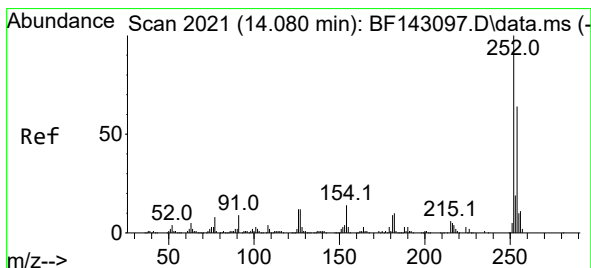
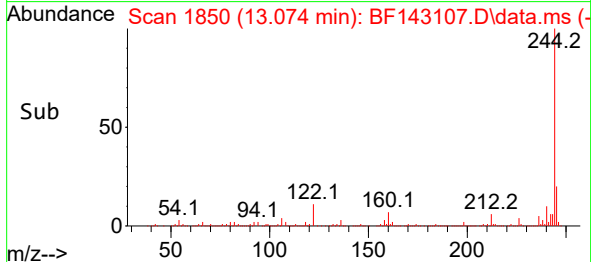
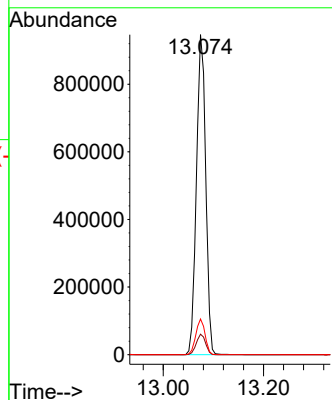
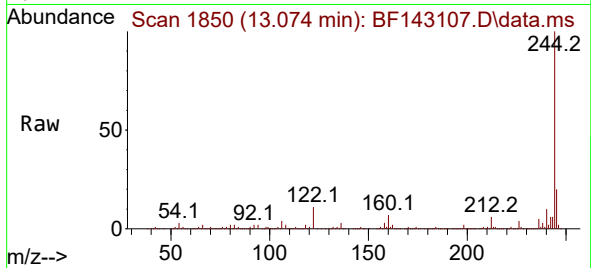




#79
 Terphenyl-d14
 Concen: 80.934 ng
 RT: 13.074 min Scan# 1850
 Delta R.T. -0.000 min
 Lab File: BF143107.D
 Acq: 16 Jul 2025 11:37

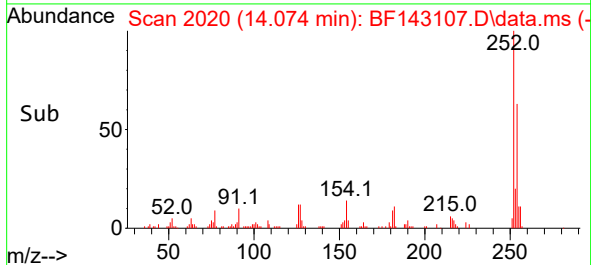
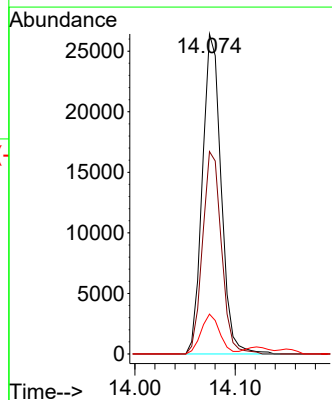
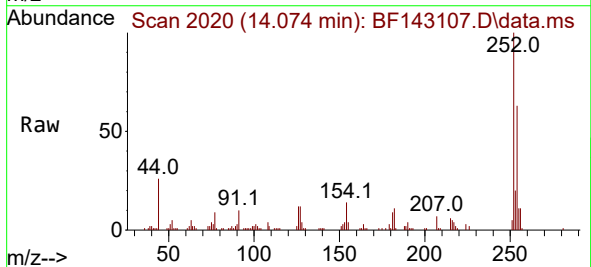
Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2025

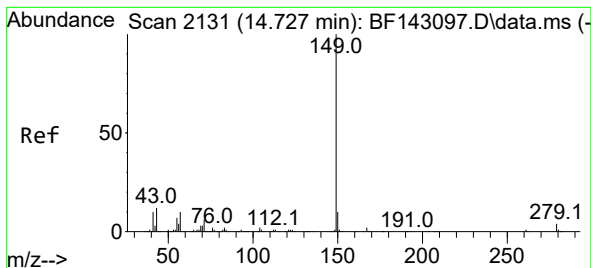
Tgt Ion:244 Resp: 1213878
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.2 7.8
 122 11.2 8.8 13.2



#82
 3,3'-Dichlorobenzidine
 Concen: 8.096 ng
 RT: 14.074 min Scan# 2020
 Delta R.T. -0.006 min
 Lab File: BF143107.D
 Acq: 16 Jul 2025 11:37

Tgt Ion:252 Resp: 34347
 Ion Ratio Lower Upper
 252 100
 254 63.2 51.5 77.3
 126 12.4 9.4 14.0

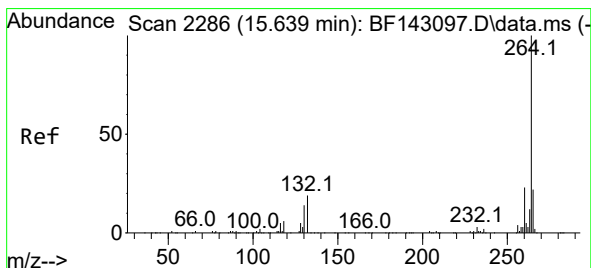
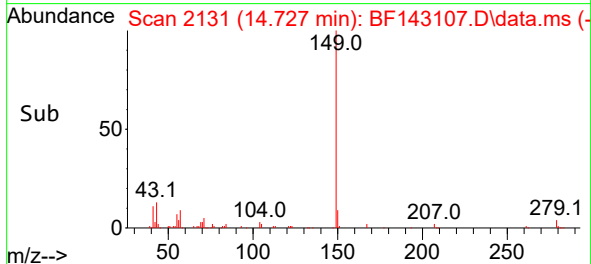
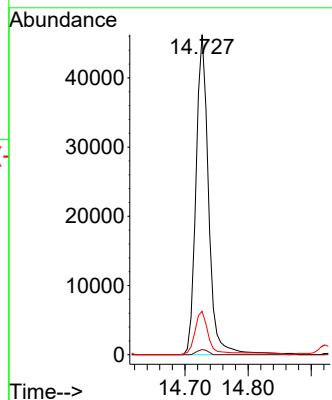
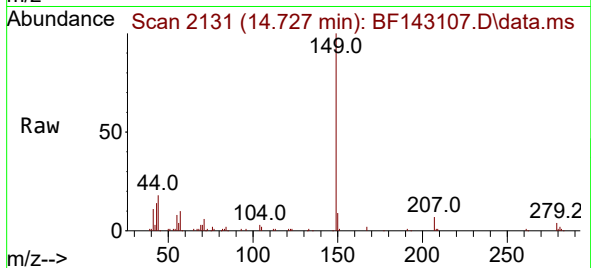




#85
Di-n-octyl phthalate
Concen: 11.420 ng
RT: 14.727 min Scan# 2131
Delta R.T. 0.000 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2025

Tgt Ion:149 Resp: 64075
Ion Ratio Lower Upper
149 100
167 1.4 1.2 1.8
43 14.9 10.6 16.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BF143107.D
Acq: 16 Jul 2025 11:37

Tgt Ion:264 Resp: 207078
Ion Ratio Lower Upper
264 100
260 22.1 18.5 27.7
265 21.5 17.5 26.3

