

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072225\
 Data File : BM050486.D
 Acq On : 22 Jul 2025 15:34
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Jul 22 16:19:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 16:20:15 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.869	152	3515592	20.000	ng	0.02
21) Naphthalene-d8	10.663	136	14120923	20.000	ng	0.02
39) Acenaphthene-d10	14.492	164	9565486	20.000	ng	0.02
64) Phenanthrene-d10	17.215	188	16719829	20.000	ng	# 0.00
76) Chrysene-d12	21.450	240	16385418	20.000	ng	# 0.02
86) Perylene-d12	24.491	264	22652529	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	15269524	74.763	ng	0.04
7) Phenol-d6	7.051	99	20344868	79.020	ng	0.04
23) Nitrobenzene-d5	9.039	82	21153552	76.427	ng	0.04
42) 2,4,6-Tribromophenol	15.980	330	11325819	97.450	ng	0.02
45) 2-Fluorobiphenyl	0.000	172	0	0.000	ng	
79) Terphenyl-d14	0.000	244	0	0.000	ng	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.210	88	971352	11.566	ng	# 21
3) Pyridine	3.828	79	5906999	26.791	ng	# 1
4) n-Nitrosodimethylamine	3.763	42	1669009	16.237	ng	91
6) Aniline	7.216	93	11547226	34.948	ng	99
8) 2-Chlorophenol	7.445	128	9077220	42.149	ng	97
9) Benzaldehyde	7.022	77	6647253	43.402	ng	97
10) Phenol	7.081	94	10013740	37.290	ng	97
11) bis(2-Chloroethyl)ether	7.304	93	8906155	41.413	ng	92
12) 1,3-Dichlorobenzene	7.763	146	10546810	40.275	ng	97
13) 1,4-Dichlorobenzene	7.904	146	11474657	42.913	ng	99
14) 1,2-Dichlorobenzene	8.222	146	10616325	41.471	ng	99
15) Benzyl Alcohol	8.116	79	7577098	41.768	ng	96
16) 2,2'-oxybis(1-Chloropr...	8.404	45	12207990	38.538	ng	95
17) 2-Methylphenol	8.316	107	7276768	41.780	ng	97
18) Hexachloroethane	8.945	117	3203294	34.063	ng	94
19) n-Nitroso-di-n-propyla...	8.704	70	3885609	24.912	ng	92
20) 3+4-Methylphenols	8.657	107	9795549	41.895	ng	99
22) Acetophenone	8.698	105	13202586	37.395	ng	95
24) Nitrobenzene	9.080	77	9318575	37.729	ng	96
25) Isophorone	9.610	82	18410801	40.992	ng	99
26) 2-Nitrophenol	9.775	139	4683818	46.530	ng	95
27) 2,4-Dimethylphenol	9.839	122	8164904	38.118	ng	98
28) bis(2-Chloroethoxy)met...	10.075	93	11614412	39.026	ng	98
29) 2,4-Dichlorophenol	10.310	162	9629364	43.758	ng	97
30) 1,2,4-Trichlorobenzene	10.522	180	11272632	42.820	ng	99
31) Naphthalene	10.704	128	21509922	29.990	ng	# 87
32) Benzoic acid	10.110	122	5853274	44.952	ng	98
33) 4-Chloroaniline	10.816	127	11447823	37.754	ng	98
34) Hexachlorobutadiene	10.998	225	7575405	47.148	ng	99
35) Caprolactam	11.780	113	167570	2.789	ng	96
36) 4-Chloro-3-methylphenol	11.957	107	8582369	41.764	ng	96
37) 2-Methylnaphthalene	12.310	142	17223596	38.032	ng	91
38) 1-Methylnaphthalene	12.527	142	17269441	36.033	ng	93
40) 1,2,4,5-Tetrachloroben...	12.686	216	13163211	43.273	ng	# 98
41) Hexachlorocyclopentadiene	12.663	237	2053384	10.560	ng	99
43) 2,4,6-Trichlorophenol	12.921	196	8613784	46.003	ng	98

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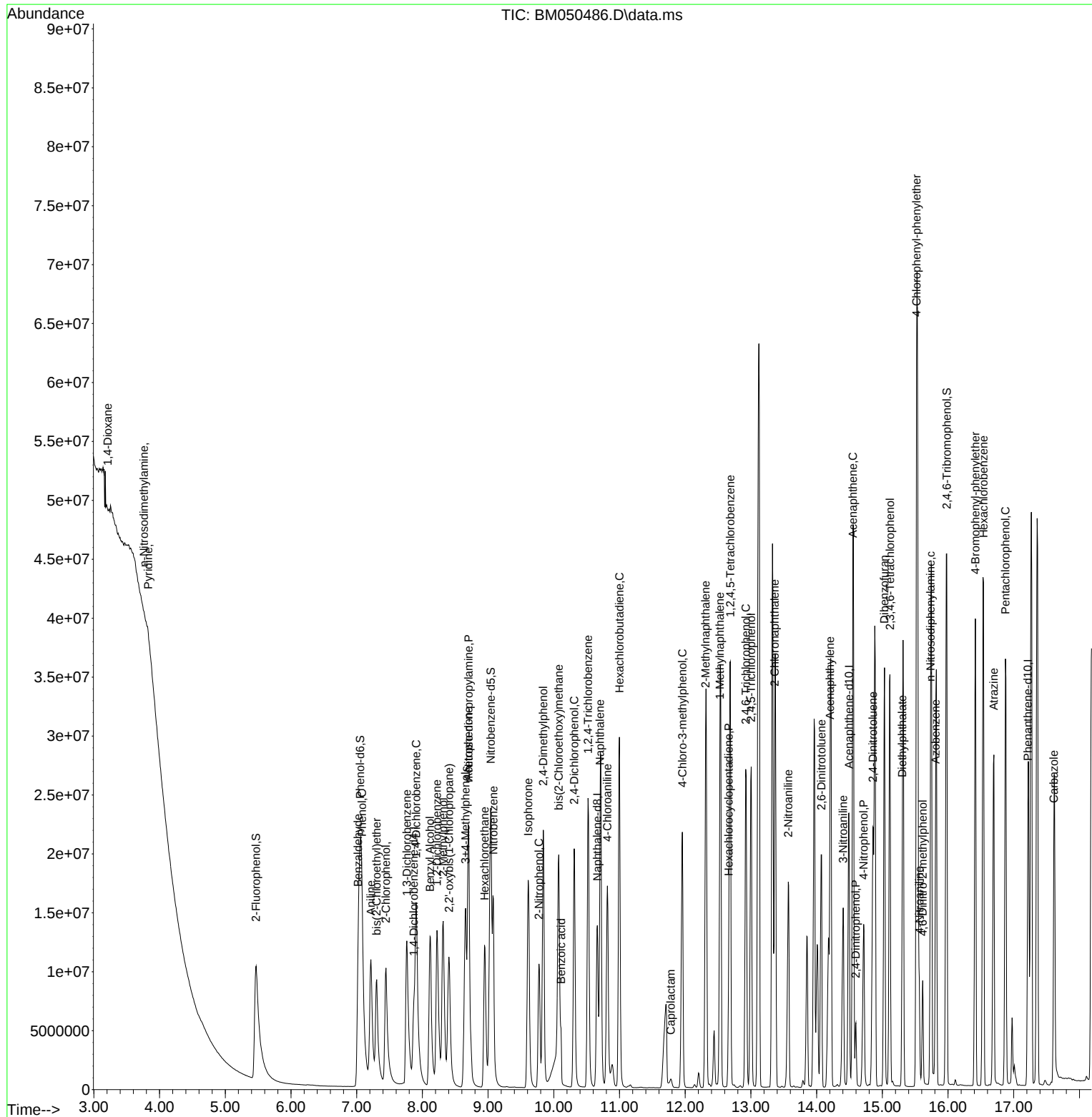
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.004	196	9242520	45.198	ng	# 95
47) 2-Chloronaphthalene	13.363	162	17658081	31.206	ng	# 85
48) 2-Nitroaniline	13.568	65	5363541	42.466	ng	89
49) Acenaphthylene	14.204	152	20735150	24.247	ng	# 74
51) 2,6-Dinitrotoluene	14.074	165	5588453	44.196	ng	# 86
52) Acenaphthene	14.551	154	16335221	30.046	ng	# 85
53) 3-Nitroaniline	14.404	138	5008391	37.244	ng	98
54) 2,4-Dinitrophenol	14.598	184	1279868	23.281	ng	# 80
55) Dibenzofuran	15.033	168	1914080	2.285	ng	# 43
56) 4-Nitrophenol	14.715	139	4684788	40.511	ng	89
57) 2,4-Dinitrotoluene	14.857	165	7882341	42.002	ng	87
59) 2,3,4,6-Tetrachlorophenol	15.115	232	8409981	48.855	ng	# 90
60) Diethylphthalate	15.304	149	17539579	27.881	ng	# 92
61) 4-Chlorophenyl-phenyle...	15.521	204	13385858	37.102	ng	95
62) 4-Nitroaniline	15.562	138	3227045	22.336	ng	96
63) Azobenzene	15.809	77	16364609	28.330	ng	95
65) 4,6-Dinitro-2-methylph...	15.615	198	2123173	26.818	ng	86
66) n-Nitrosodiphenylamine	15.733	169	16847350	32.201	ng	93
67) 4-Bromophenyl-phenylether	16.415	248	9933180	53.922	ng	94
68) Hexachlorobenzene	16.539	284	10761425	49.462	ng	# 90
69) Atrazine	16.698	200	6955042	40.484	ng	98
70) Pentachlorophenol	16.874	266	7621425	56.271	ng	98
73) Carbazole	17.609	167	18858347	22.131	ng	95
77) Benzidine	19.450	184	8275850	19.802	ng	99
80) Butylbenzylphthalate	20.515	149	14279624	41.268	ng	# 71
81) Benzo(a)anthracene	21.486	228	2455282	2.300	ng	# 88
82) 3,3'-Dichlorobenzidine	21.350	252	15851021	44.026	ng	96
83) Chrysene	21.486	228	2455282	2.438	ng	91
84) Bis(2-ethylhexyl)phtha...	21.339	149	16916482	30.796	ng	# 69
87) Indeno(1,2,3-cd)pyrene	27.979	276	67721342	42.048	ng	# 79

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

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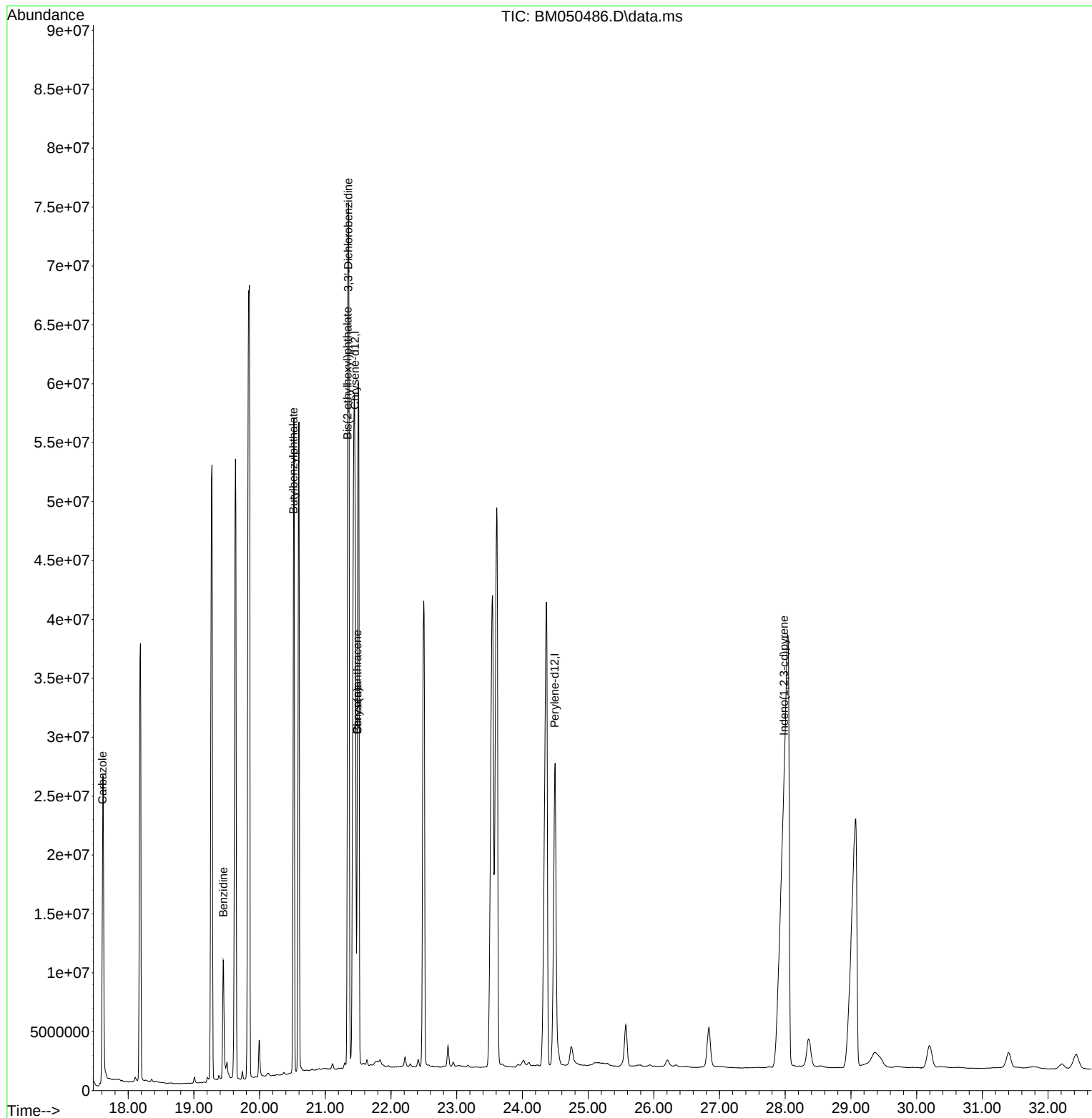
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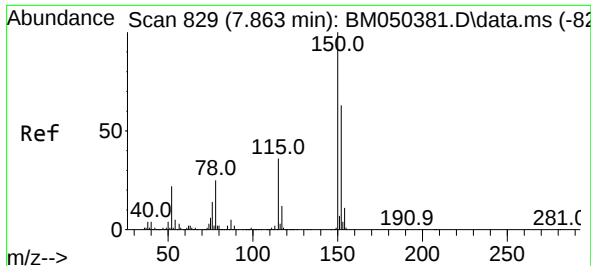


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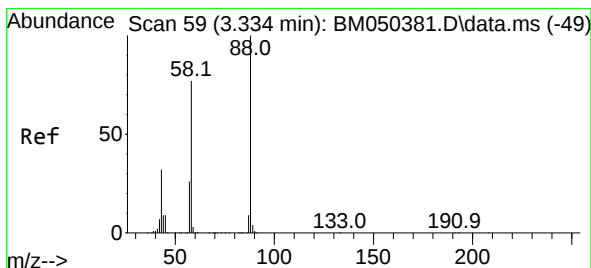
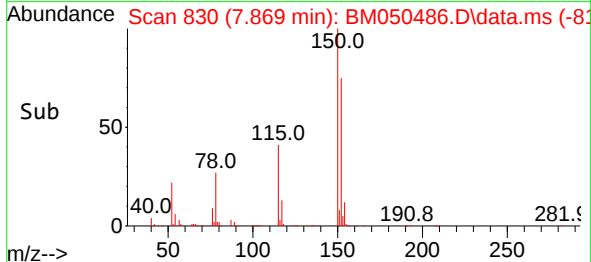
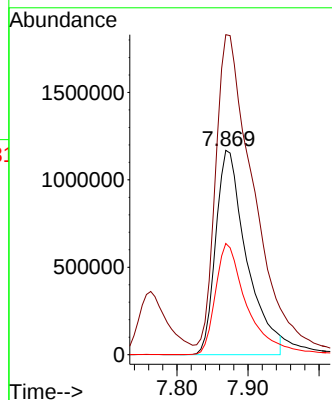
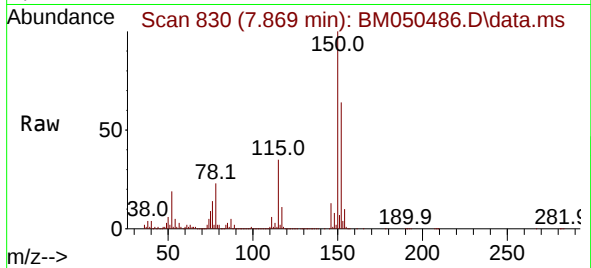




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.869 min Scan# 81
 Delta R.T. 0.018 min
 Lab File: BM050486.D
 Acq: 22 Jul 2025 15:34

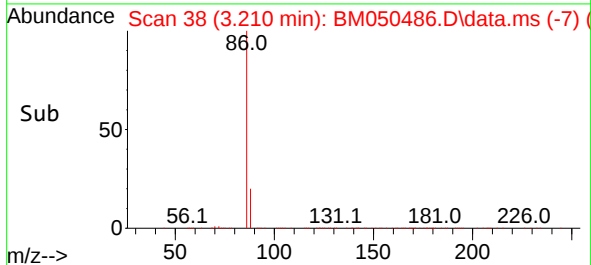
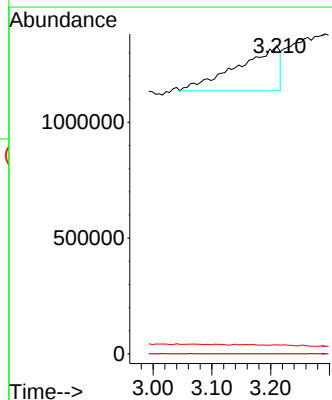
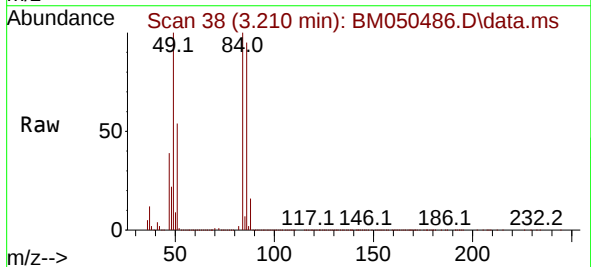
Instrument :
 BNA_M
 ClientSampleId :

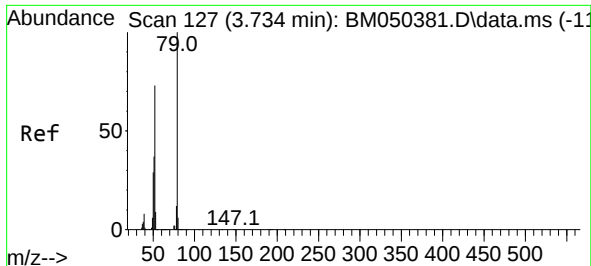
Tgt Ion:152 Resp: 3515592
 Ion Ratio Lower Upper
 152 100
 150 156.7 126.2 189.4
 115 54.4 45.8 68.8



#2
 1,4-Dioxane
 Concen: 11.566 ng
 RT: 3.210 min Scan# 38
 Delta R.T. -0.118 min
 Lab File: BM050486.D
 Acq: 22 Jul 2025 15:34

Tgt Ion: 88 Resp: 971352
 Ion Ratio Lower Upper
 88 100
 58 0.0 61.0 91.6#
 43 0.0 24.6 37.0#

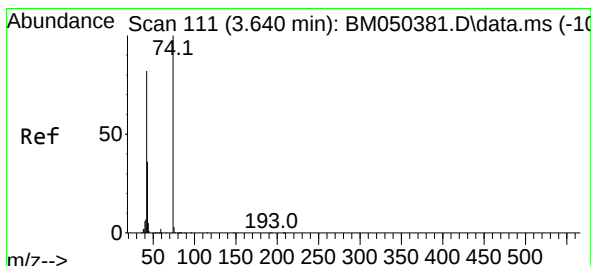
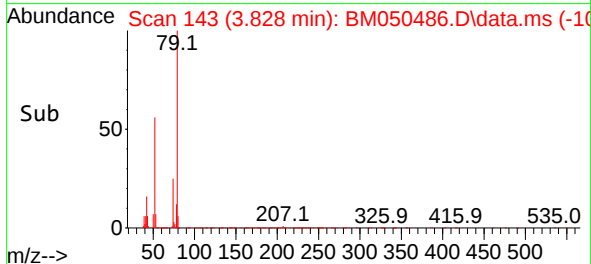
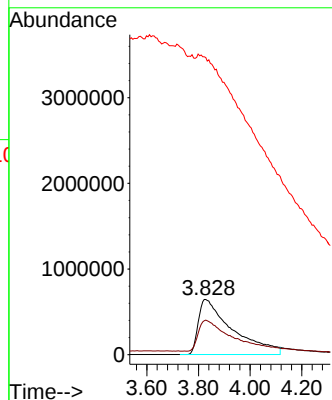
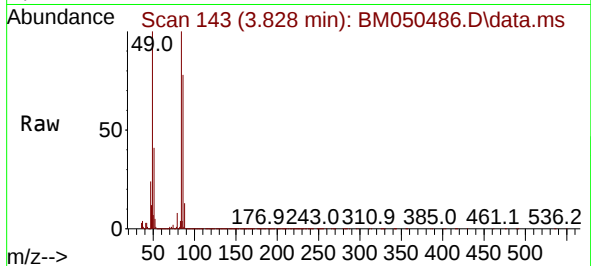




#3
Pyridine
Concen: 26.791 ng
RT: 3.828 min Scan# 14
Delta R.T. 0.100 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

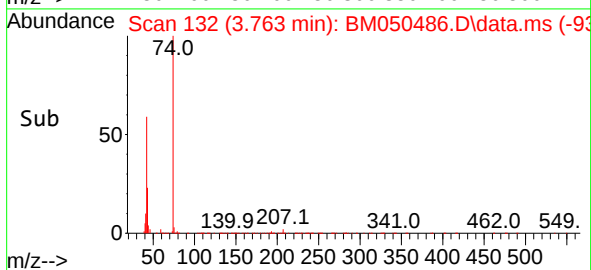
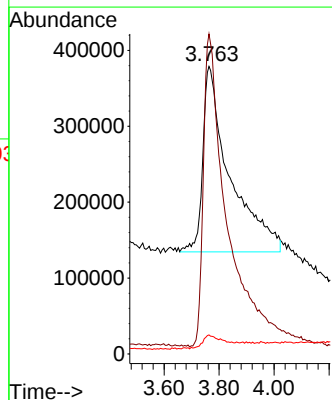
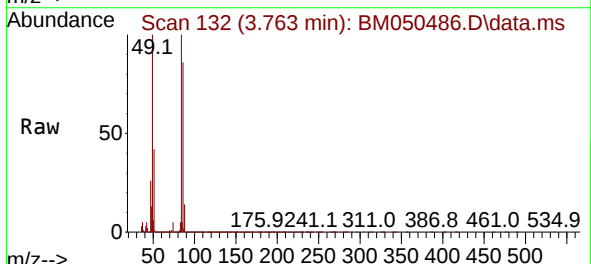
Instrument :
BNA_M
ClientSampleId :

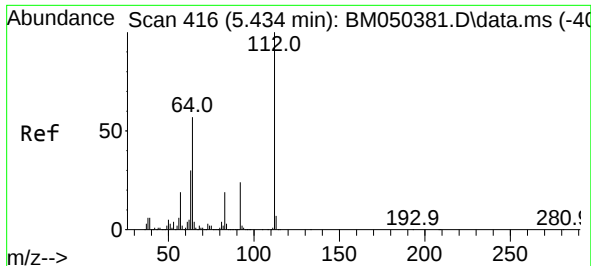
Tgt Ion: 79 Resp: 5906999
Ion Ratio Lower Upper
79 100
52 62.5 58.3 87.5
51 538.2 29.6 44.4#



#4
n-Nitrosodimethylamine
Concen: 16.237 ng
RT: 3.763 min Scan# 132
Delta R.T. 0.129 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion: 42 Resp: 1669009
Ion Ratio Lower Upper
42 100
74 111.3 97.5 146.3
44 6.6 5.7 8.5

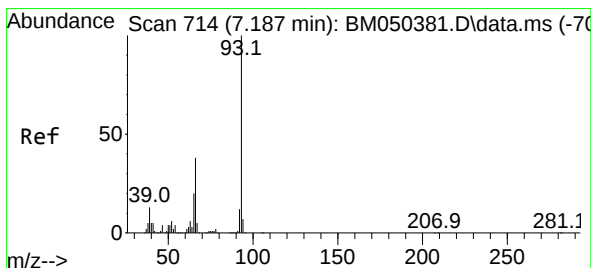
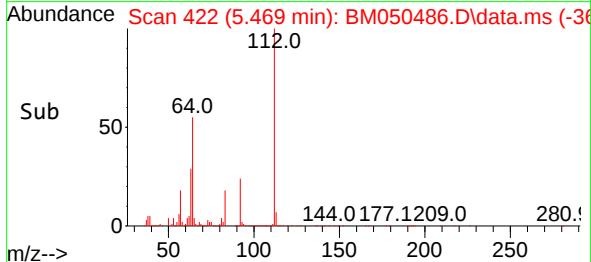
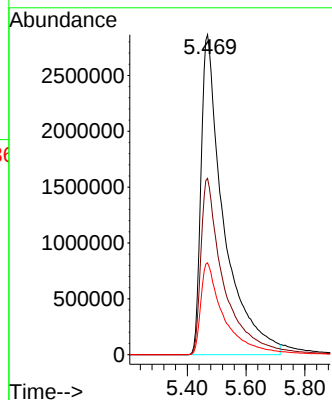
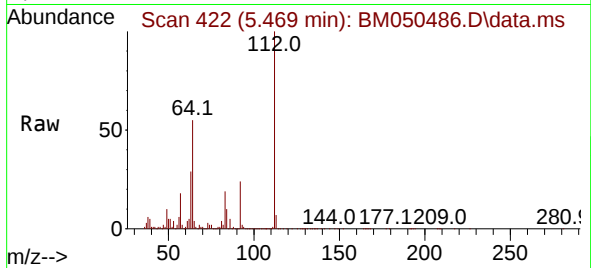




#5
2-Fluorophenol
Concen: 74.763 ng
RT: 5.469 min Scan# 416
Delta R.T. 0.041 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

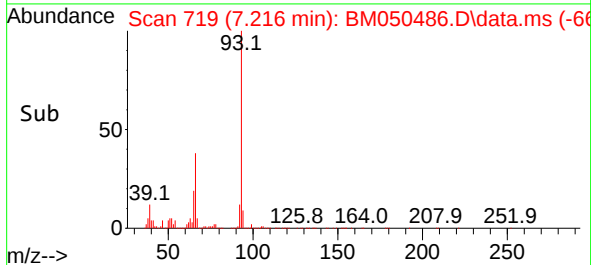
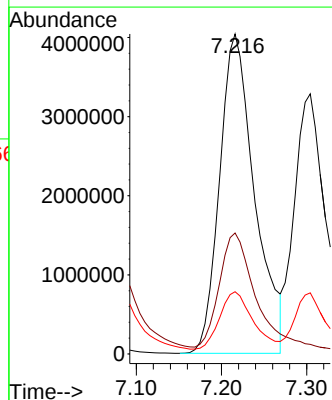
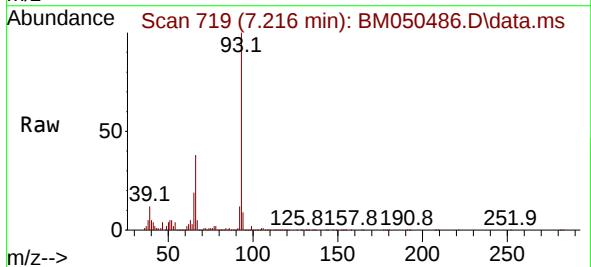
Instrument :
BNA_M
ClientSampleId :

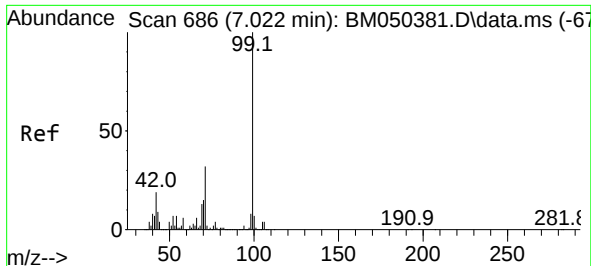
Tgt Ion:112 Resp:15269524
Ion Ratio Lower Upper
112 100
64 55.1 45.5 68.3
63 28.7 24.2 36.4



#6
Aniline
Concen: 34.948 ng
RT: 7.216 min Scan# 719
Delta R.T. 0.041 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion: 93 Resp:11547226
Ion Ratio Lower Upper
93 100
66 37.8 30.5 45.7
65 19.5 15.9 23.9



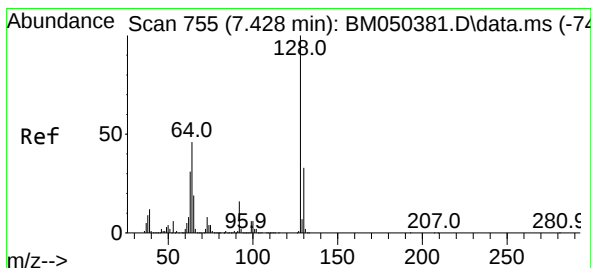
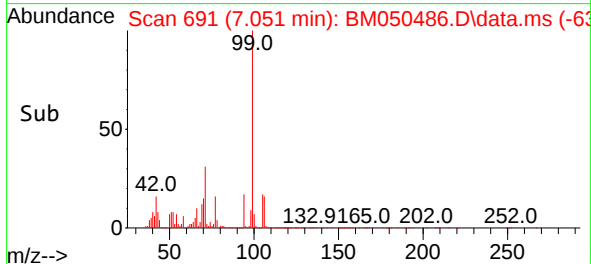
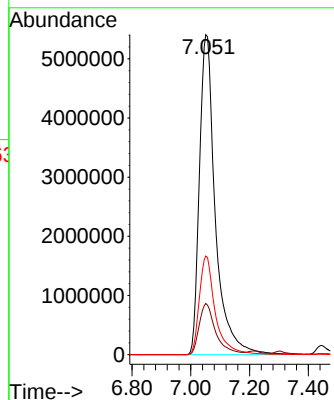
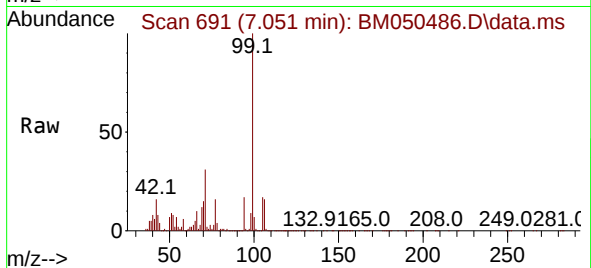


#7
Phenol-d6
Concen: 79.020 ng
RT: 7.051 min Scan# 691
Delta R.T. 0.041 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Instrument :
BNA_M
ClientSampleId :

Tgt Ion: 99 Resp: 20344868

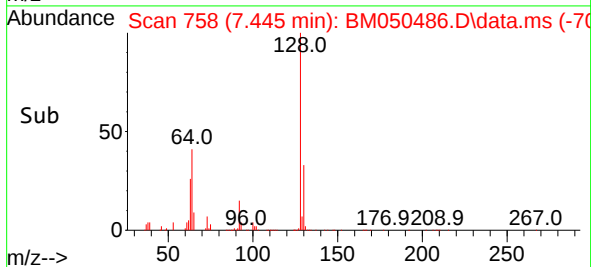
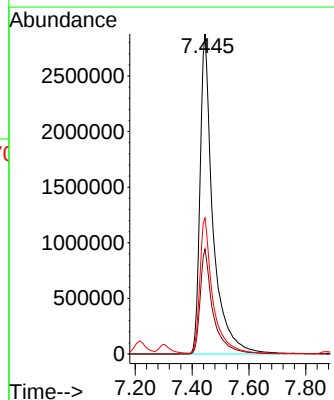
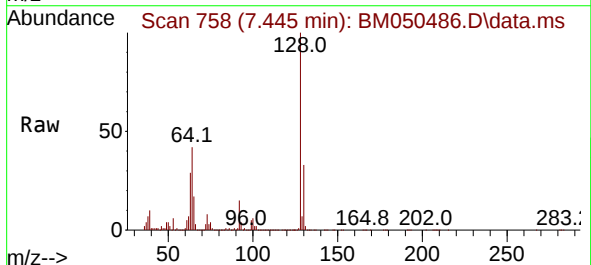
Ion	Ratio	Lower	Upper
99	100		
42	16.0	15.0	22.6
71	30.9	25.9	38.9

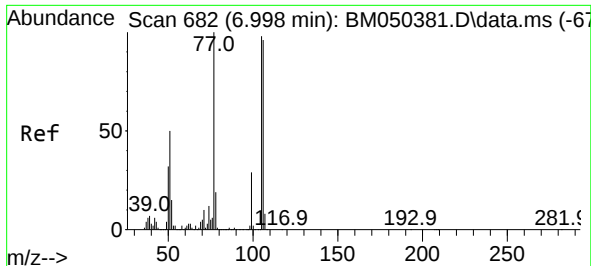


#8
2-Chlorophenol
Concen: 42.149 ng
RT: 7.445 min Scan# 758
Delta R.T. 0.029 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion: 128 Resp: 9077220

Ion	Ratio	Lower	Upper
128	100		
130	32.8	13.3	53.3
64	42.5	25.6	65.6

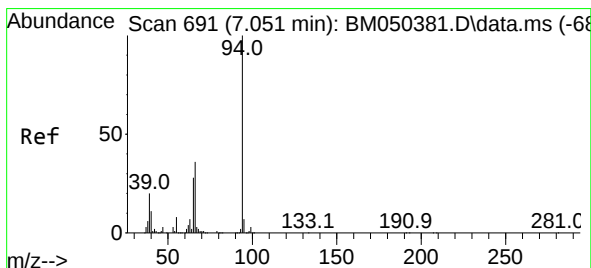
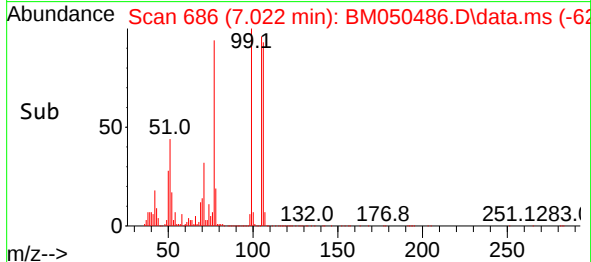
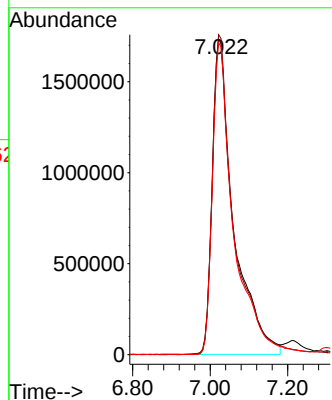
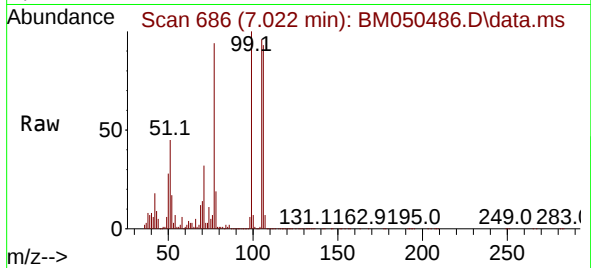




#9
Benzaldehyde
Concen: 43.402 ng
RT: 7.022 min Scan# 61
Delta R.T. 0.035 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

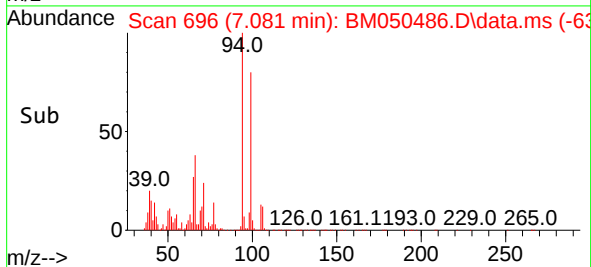
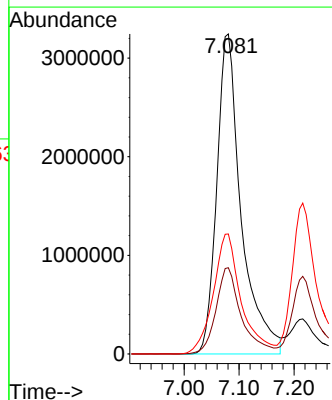
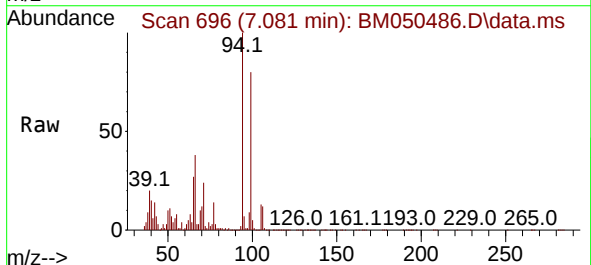
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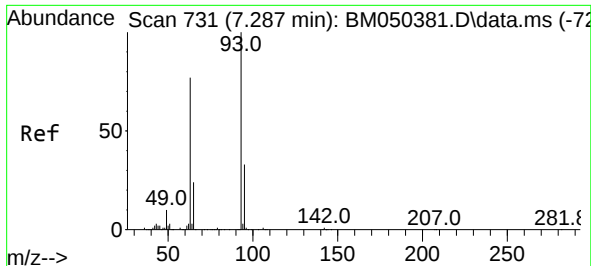
Tgt Ion: 77 Resp: 6647253
Ion Ratio Lower Upper
77 100
105 101.3 78.4 118.4
106 98.8 76.3 116.3



#10
Phenol
Concen: 37.290 ng
RT: 7.081 min Scan# 696
Delta R.T. 0.041 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

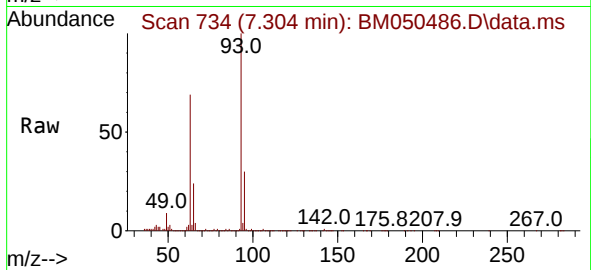
Tgt Ion: 94 Resp:10013740
Ion Ratio Lower Upper
94 100
65 27.0 8.1 48.1
66 37.5 15.8 55.8





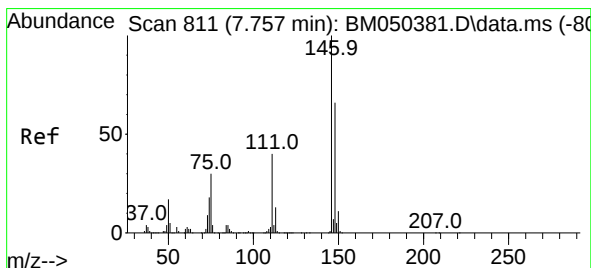
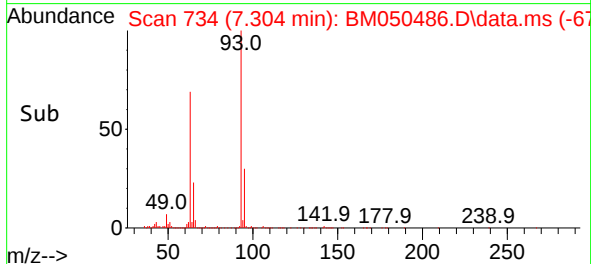
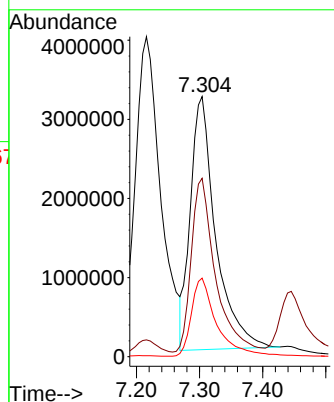
#11
bis(2-Chloroethyl)ether
Concen: 41.413 ng
RT: 7.304 min Scan# 71
Delta R.T. 0.035 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Instrument :
BNA_M
ClientSampleId :



Tgt Ion: 93 Resp: 8906155

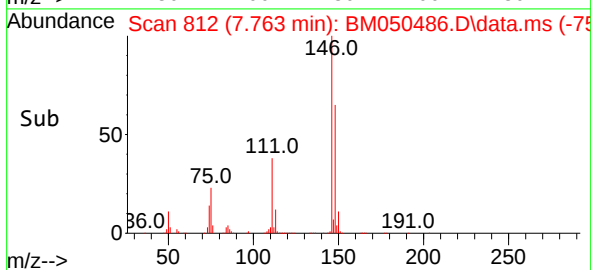
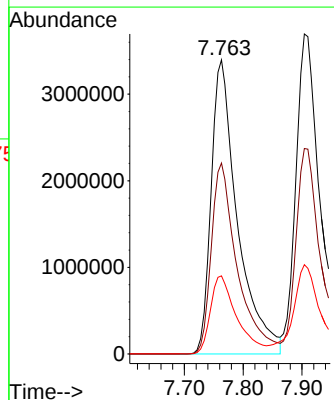
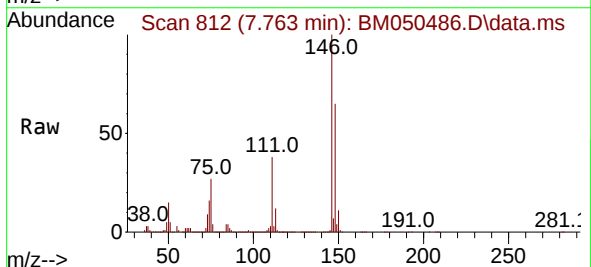
Ion	Ratio	Lower	Upper
93	100		
63	68.6	56.9	96.9
95	30.2	12.6	52.6

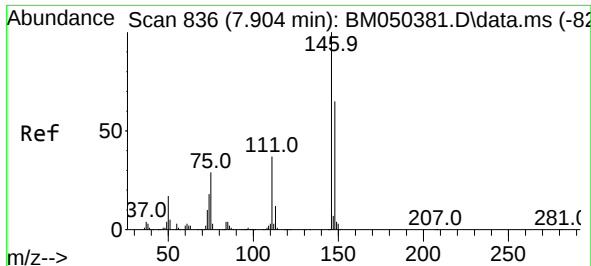


#12
1,3-Dichlorobenzene
Concen: 40.275 ng
RT: 7.763 min Scan# 812
Delta R.T. 0.023 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion: 146 Resp: 10546810

Ion	Ratio	Lower	Upper
146	100		
148	64.9	53.2	79.8
75	26.6	23.9	35.9

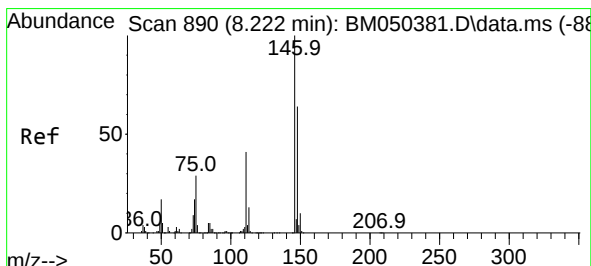
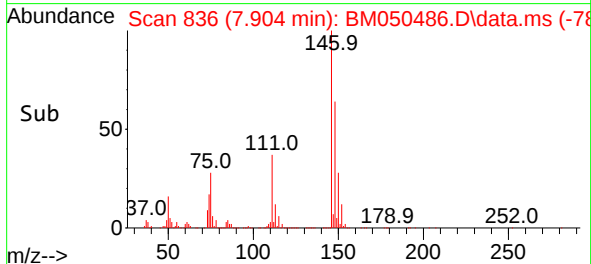
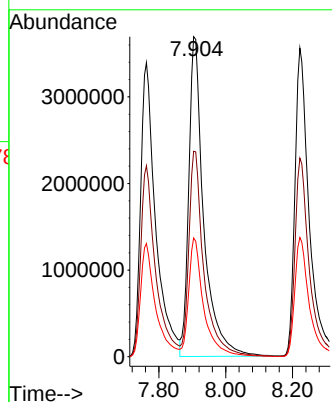
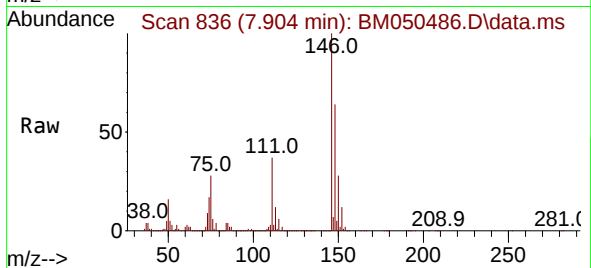




#13
1,4-Dichlorobenzene
Concen: 42.913 ng
RT: 7.904 min Scan# 811
Delta R.T. 0.018 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

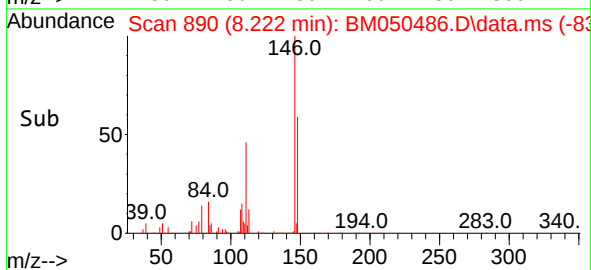
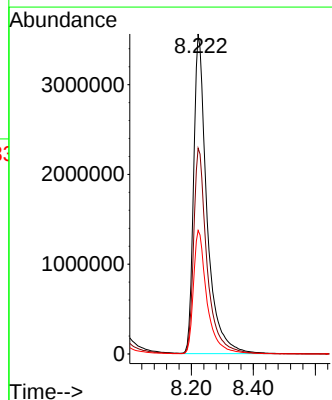
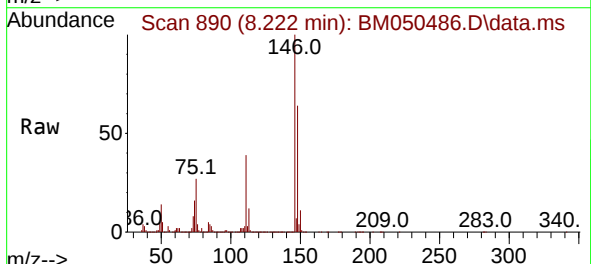
Instrument :
BNA_M
ClientSampleId :

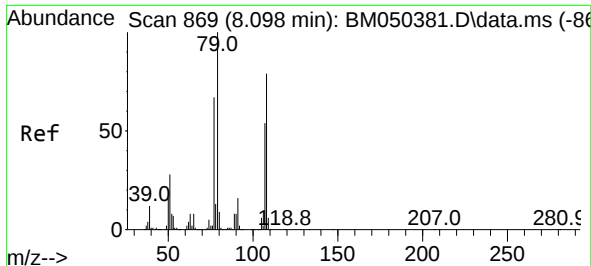
Tgt Ion:146 Resp:11474657
Ion Ratio Lower Upper
146 100
148 64.2 51.9 77.9
111 37.1 30.0 45.0



#14
1,2-Dichlorobenzene
Concen: 41.471 ng
RT: 8.222 min Scan# 890
Delta R.T. 0.023 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:146 Resp:10616325
Ion Ratio Lower Upper
146 100
148 64.3 51.5 77.3
111 38.6 32.6 49.0

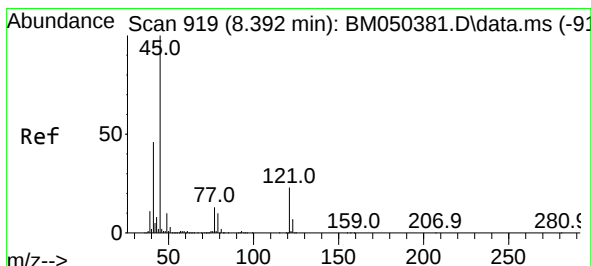
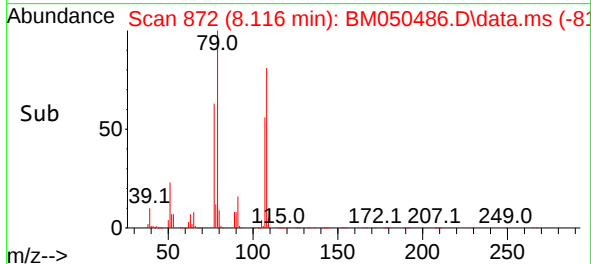
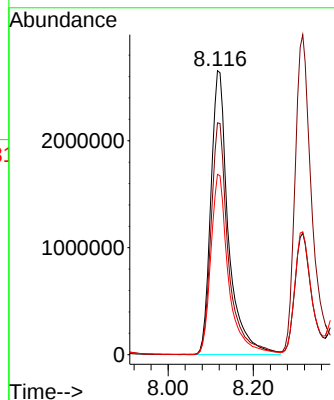
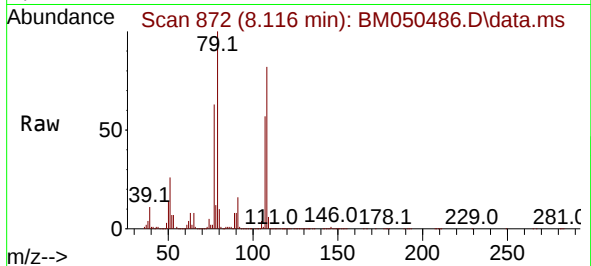




#15
Benzyl Alcohol
Concen: 41.768 ng
RT: 8.116 min Scan# 81
Delta R.T. 0.029 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

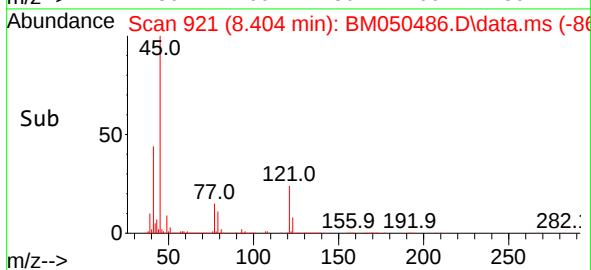
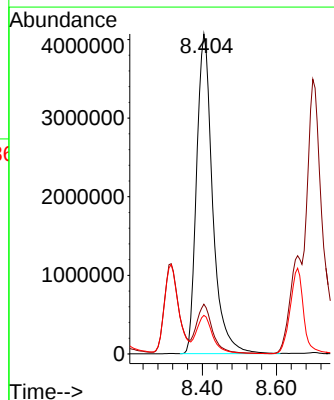
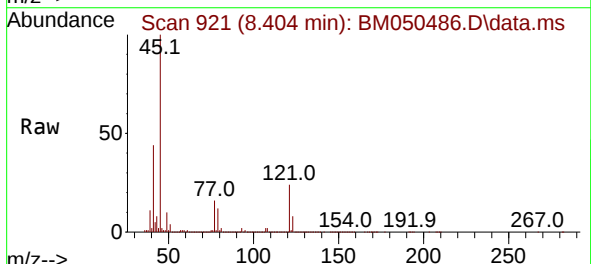
Instrument :
BNA_M
ClientSampleId :

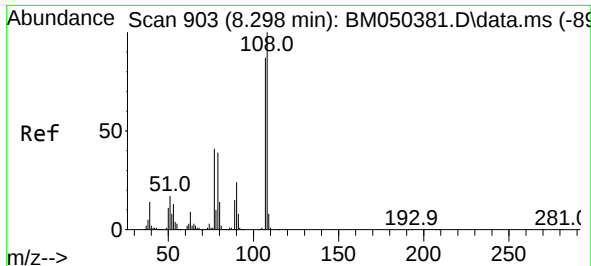
Tgt Ion: 79 Resp: 7577098
Ion Ratio Lower Upper
79 100
108 81.6 63.0 94.4
77 63.5 53.4 80.0



#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.538 ng
RT: 8.404 min Scan# 921
Delta R.T. 0.029 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion: 45 Resp:12207990
Ion Ratio Lower Upper
45 100
77 15.5 0.0 33.5
79 12.1 0.0 30.3





#17

2-Methylphenol

Concen: 41.780 ng

RT: 8.316 min Scan# 903

Delta R.T. 0.029 min

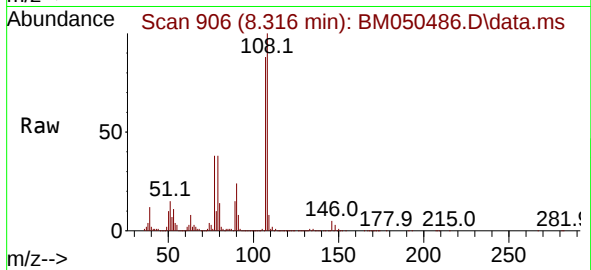
Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

Instrument :

BNA_M

ClientSampleId :



Tgt Ion:107 Resp: 7276768

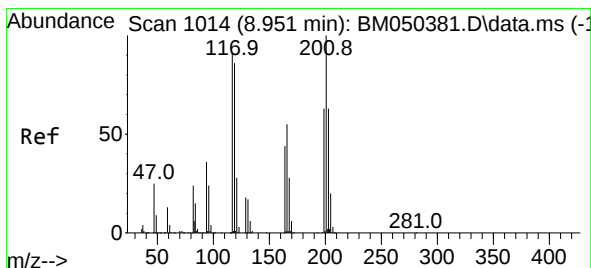
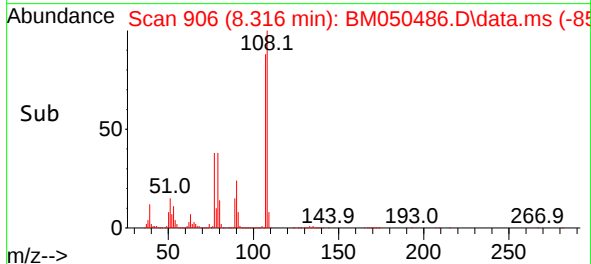
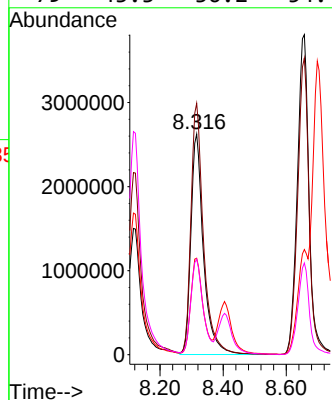
Ion Ratio Lower Upper

107 100

108 113.9 92.1 138.1

77 43.8 38.2 57.4

79 43.3 36.2 54.4



#18

Hexachloroethane

Concen: 34.063 ng

RT: 8.945 min Scan# 1013

Delta R.T. 0.012 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

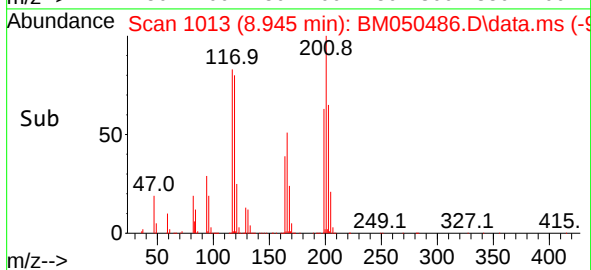
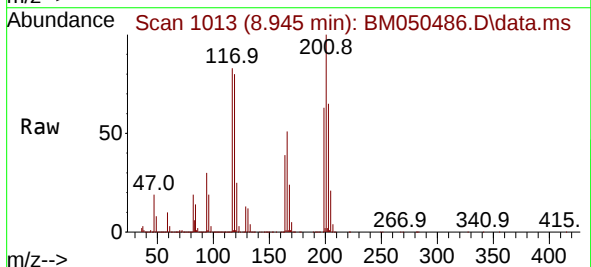
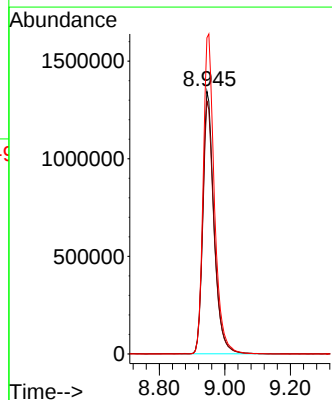
Tgt Ion:117 Resp: 3203294

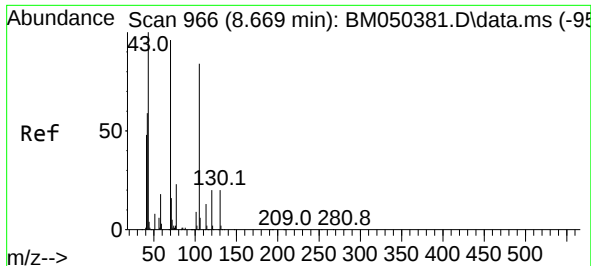
Ion Ratio Lower Upper

117 100

119 96.3 75.6 113.4

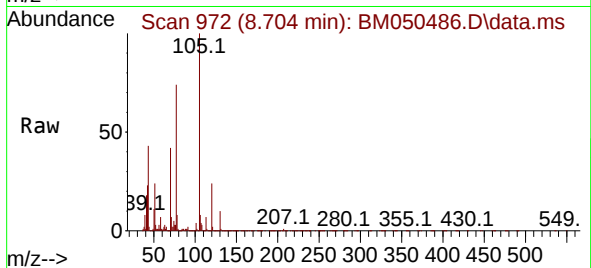
201 120.4 87.9 131.9





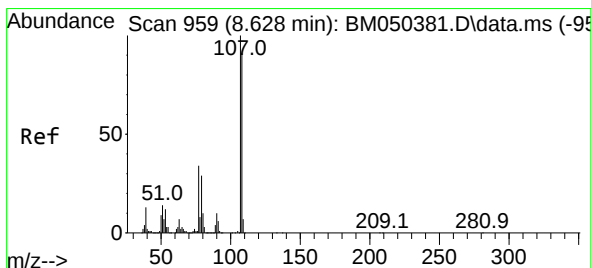
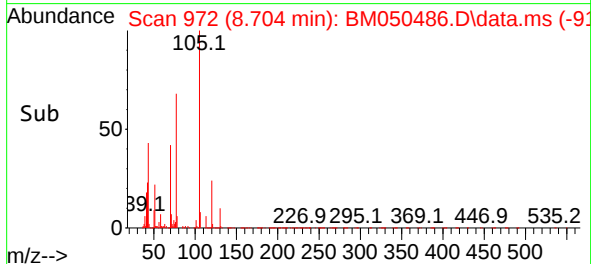
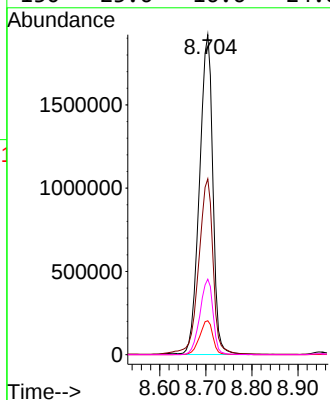
#19
n-Nitroso-di-n-propylamine
Concen: 24.912 ng
RT: 8.704 min Scan# 91
Delta R.T. 0.053 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Instrument :
BNA_M
ClientSampleId :



Tgt Ion: 70 Resp: 3885609

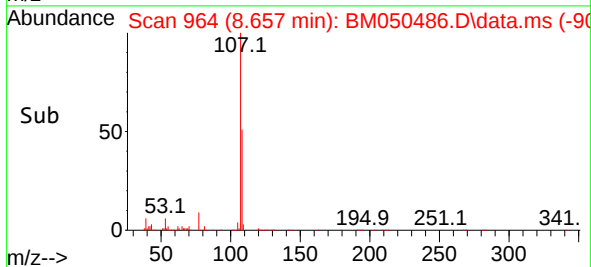
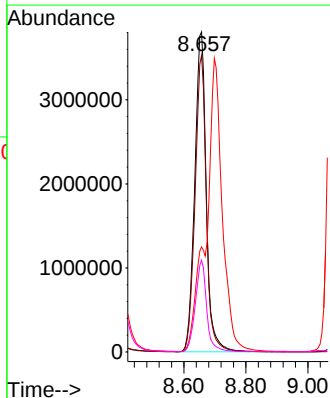
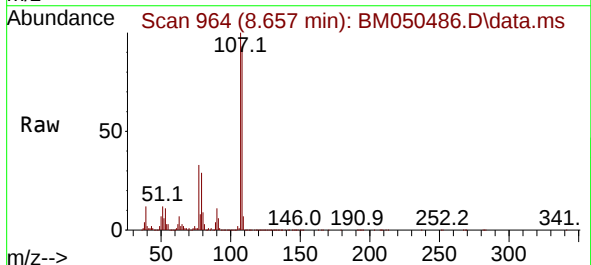
Ion	Ratio	Lower	Upper
70	100		
42	54.9	49.7	74.5
101	10.6	7.7	11.5
130	23.6	16.6	24.8

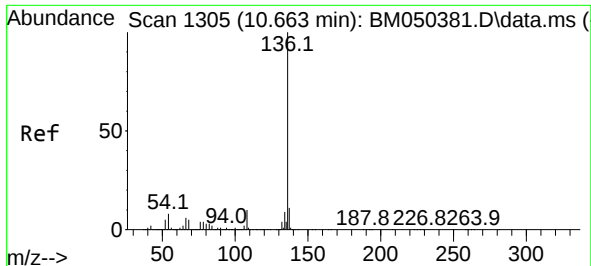


#20
3+4-Methylphenols
Concen: 41.895 ng
RT: 8.657 min Scan# 964
Delta R.T. 0.047 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:107 Resp: 9795549

Ion	Ratio	Lower	Upper
107	100		
108	92.7	71.5	111.5
77	32.8	13.7	53.7
79	28.6	8.6	48.6



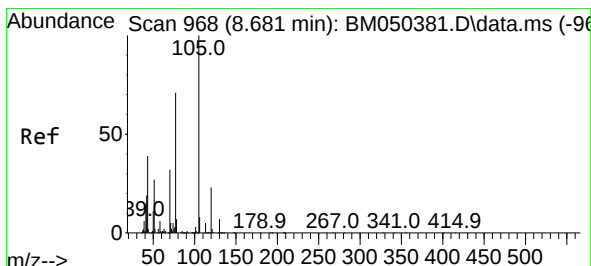
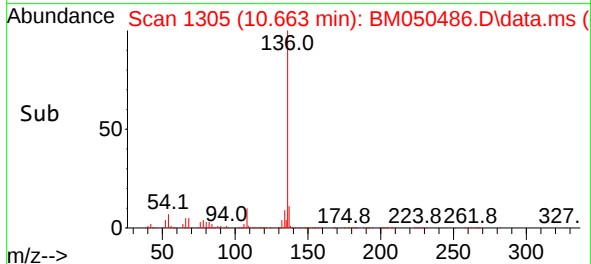
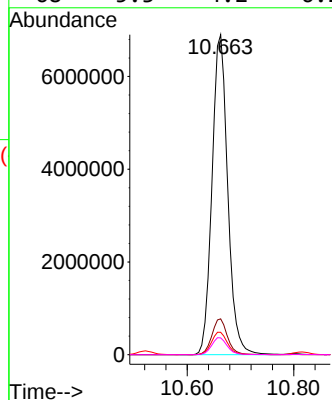
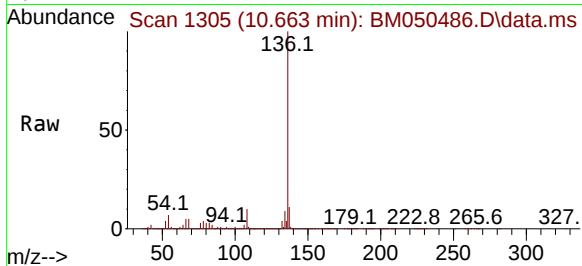


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.663 min Scan# 11
Delta R.T. 0.023 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Instrument :
BNA_M
ClientSampleId :

Tgt Ion:136 Resp:14120923

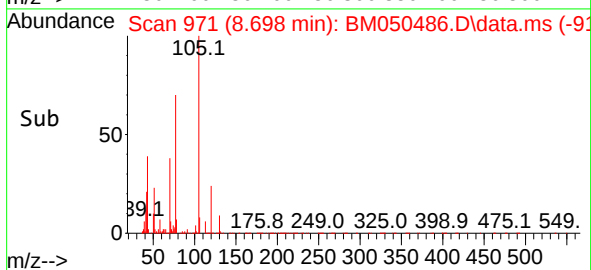
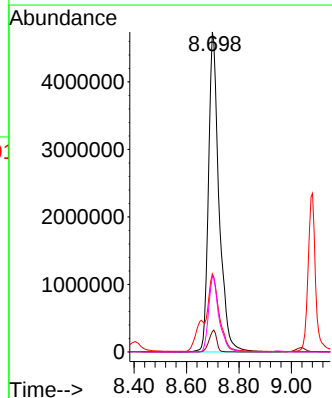
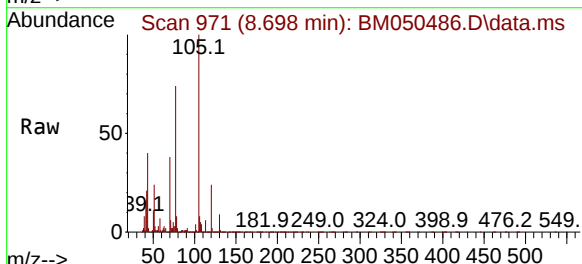
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.8	13.2
54	7.0	6.3	9.5
68	5.3	4.2	6.2

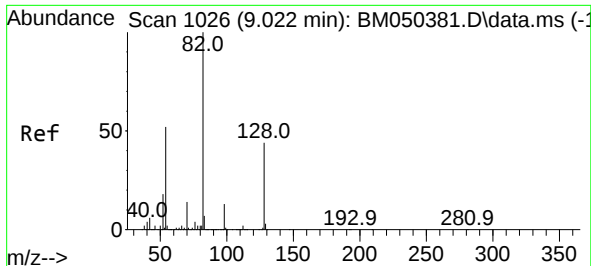


#22
Acetophenone
Concen: 37.395 ng
RT: 8.698 min Scan# 971
Delta R.T. 0.029 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:105 Resp:13202586

Ion	Ratio	Lower	Upper
105	100		
71	6.4	4.4	6.6
51	24.4	23.0	34.6
120	23.6	18.3	27.5

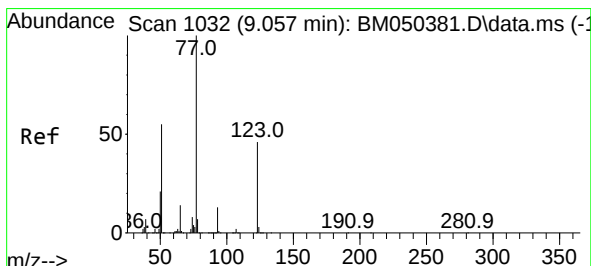
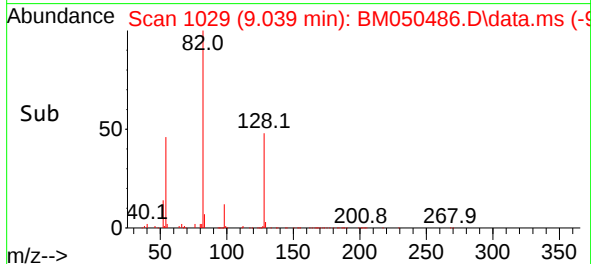
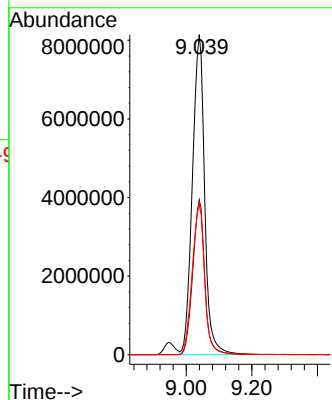
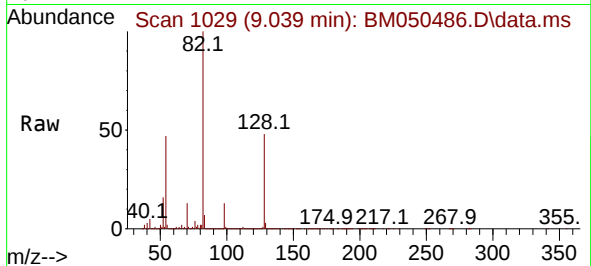




#23
Nitrobenzene-d5
Concen: 76.427 ng
RT: 9.039 min Scan# 1029
Delta R.T. 0.035 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

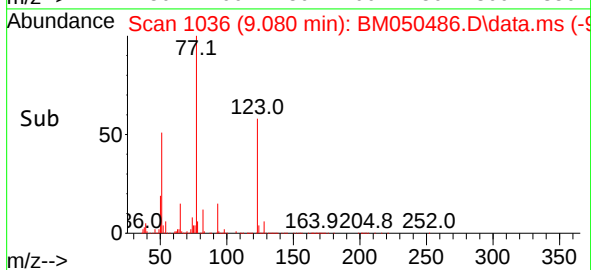
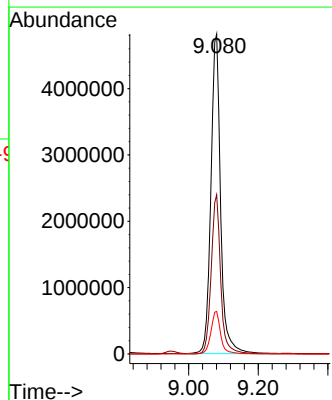
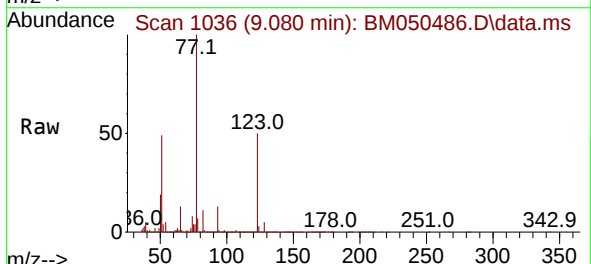
Instrument :
BNA_M
ClientSampleId :

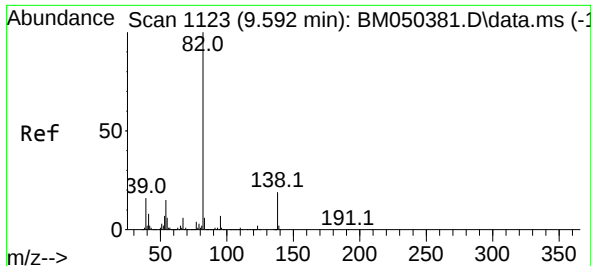
Tgt Ion: 82 Resp: 21153552
Ion Ratio Lower Upper
82 100
128 48.5 35.2 52.8
54 46.9 41.5 62.3



#24
Nitrobenzene
Concen: 37.729 ng
RT: 9.080 min Scan# 1036
Delta R.T. 0.035 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion: 77 Resp: 9318575
Ion Ratio Lower Upper
77 100
123 49.8 37.0 55.6
65 13.3 11.0 16.4

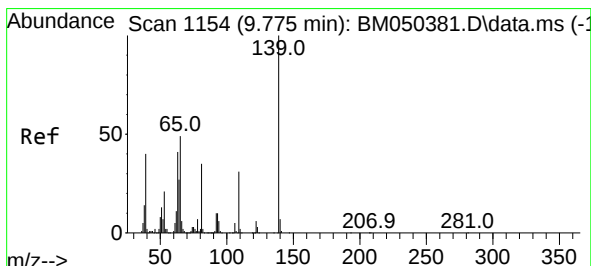
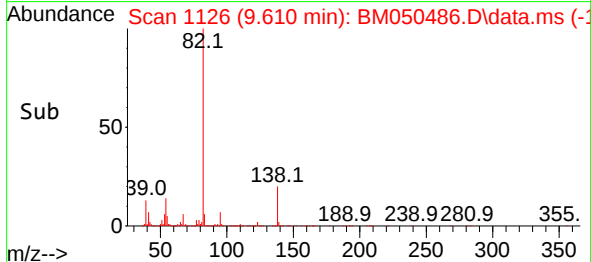
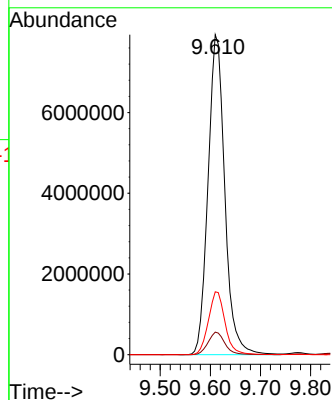
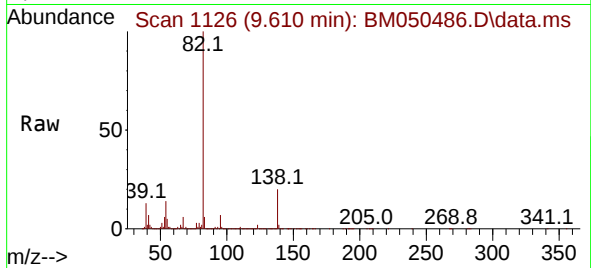




#25
Isophorone
Concen: 40.992 ng
RT: 9.610 min Scan# 1126
Delta R.T. 0.035 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

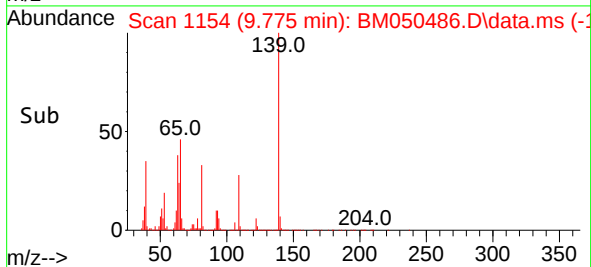
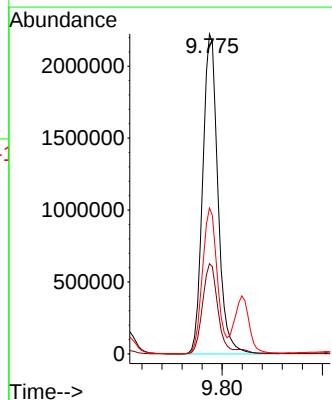
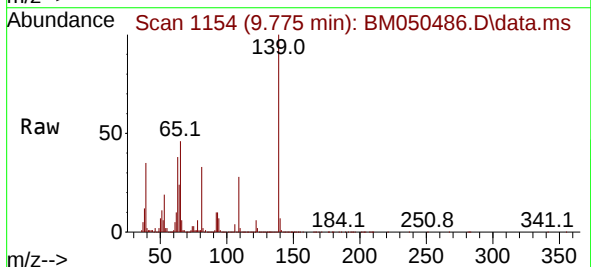
Instrument :
BNA_M
ClientSampleId :

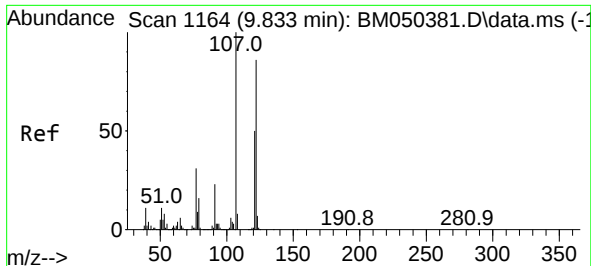
Tgt Ion: 82 Resp:18410801
Ion Ratio Lower Upper
82 100
95 7.1 5.6 8.4
138 19.7 15.3 22.9



#26
2-Nitrophenol
Concen: 46.530 ng
RT: 9.775 min Scan# 1154
Delta R.T. 0.023 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:139 Resp: 4683818
Ion Ratio Lower Upper
139 100
109 28.2 24.6 36.8
65 45.6 39.2 58.8

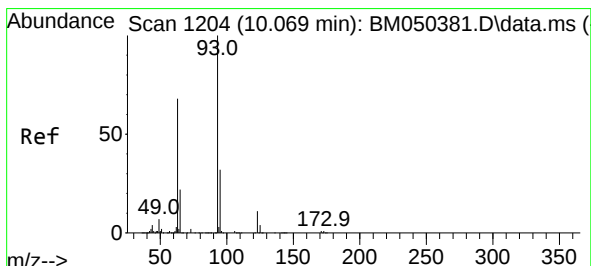
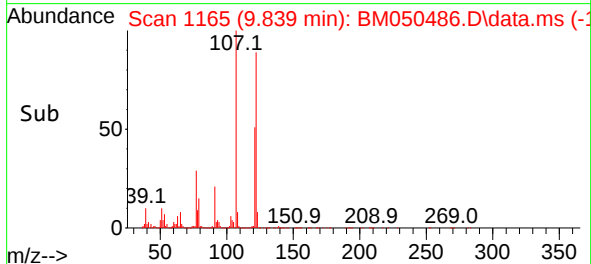
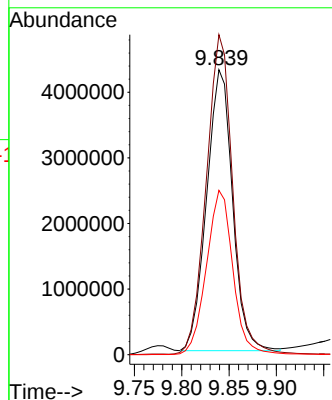
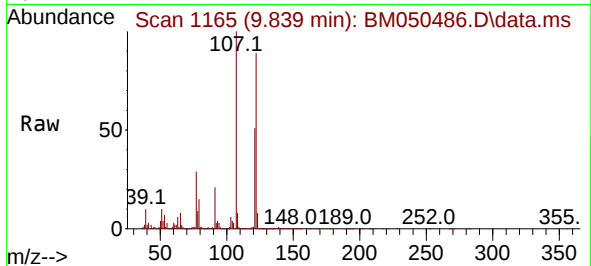




#27
2,4-Dimethylphenol
Concen: 38.118 ng
RT: 9.839 min Scan# 1164
Delta R.T. 0.023 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

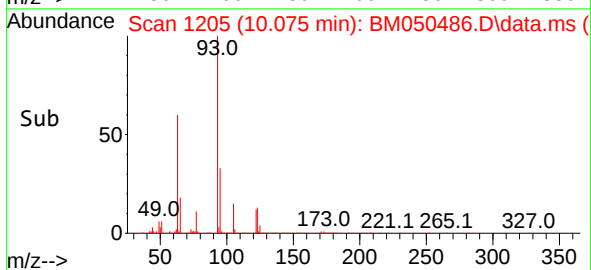
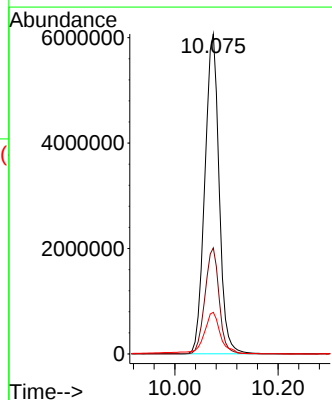
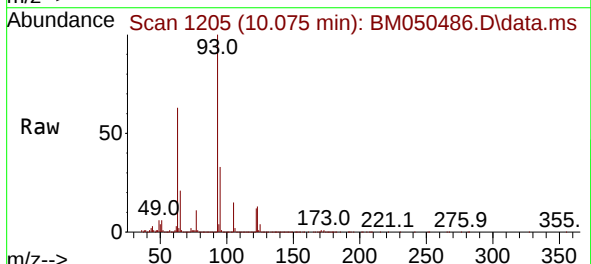
Instrument :
BNA_M
ClientSampleId :

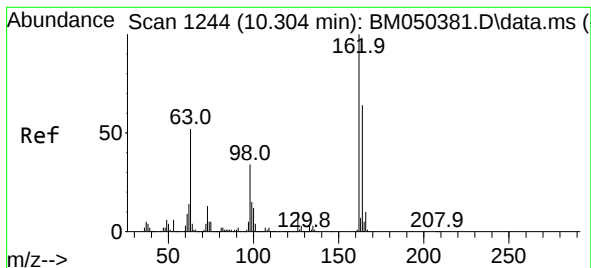
Tgt Ion:122 Resp: 8164904
Ion Ratio Lower Upper
122 100
107 112.3 93.0 139.6
121 57.6 46.1 69.1



#28
bis(2-Chloroethoxy)methane
Concen: 39.026 ng
RT: 10.075 min Scan# 1205
Delta R.T. 0.023 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

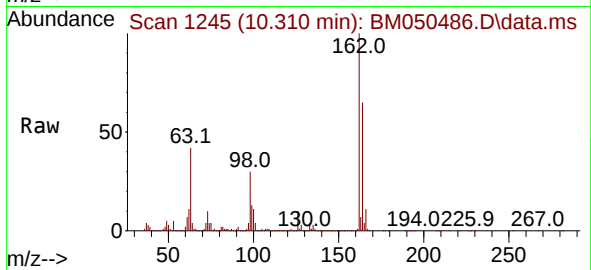
Tgt Ion: 93 Resp:11614412
Ion Ratio Lower Upper
93 100
95 33.1 25.8 38.6
123 13.0 9.1 13.7





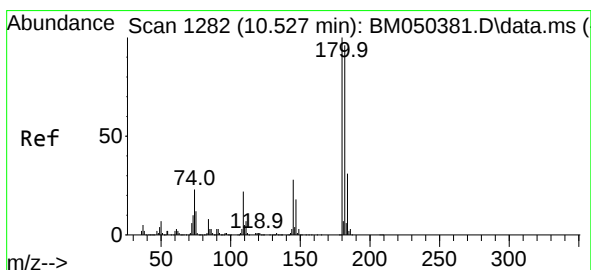
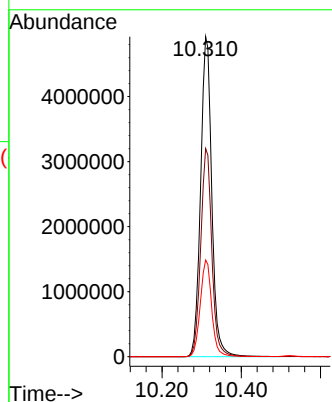
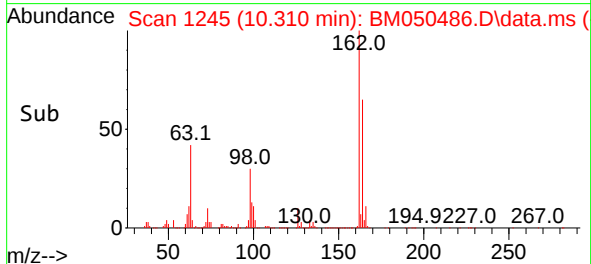
#29
 2,4-Dichlorophenol
 Concen: 43.758 ng
 RT: 10.310 min Scan# 1245
 Delta R.T. 0.023 min
 Lab File: BM050486.D
 Acq: 22 Jul 2025 15:34

Instrument :
 BNA_M
 ClientSampleId :



Tgt Ion:162 Resp: 9629364

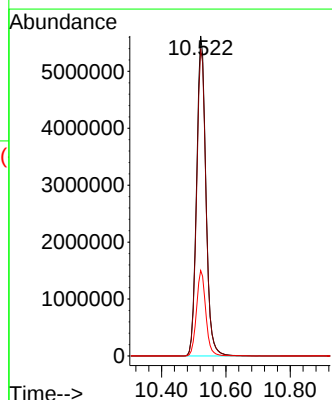
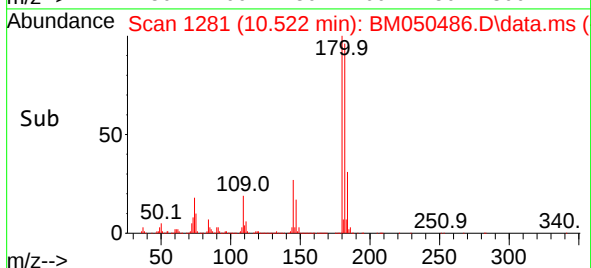
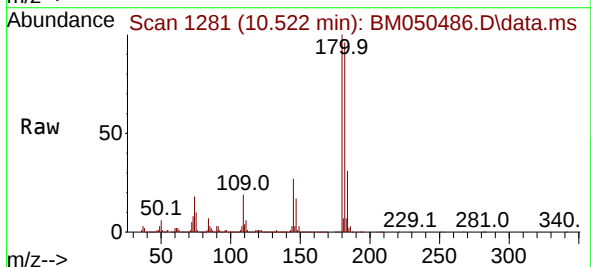
Ion	Ratio	Lower	Upper
162	100		
164	65.1	43.7	83.7
98	30.2	13.7	53.7

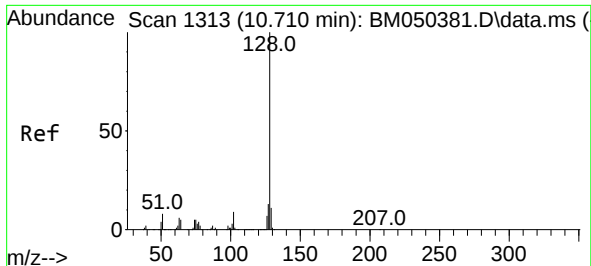


#30
 1,2,4-Trichlorobenzene
 Concen: 42.820 ng
 RT: 10.522 min Scan# 1281
 Delta R.T. 0.018 min
 Lab File: BM050486.D
 Acq: 22 Jul 2025 15:34

Tgt Ion:180 Resp:11272632

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
145	26.7	22.6	33.8

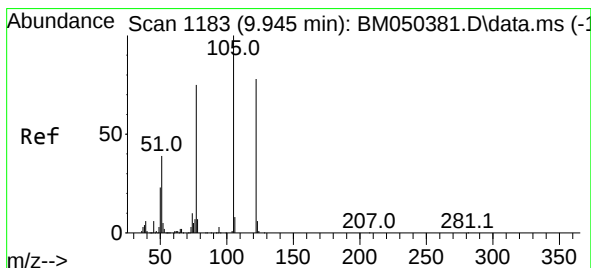
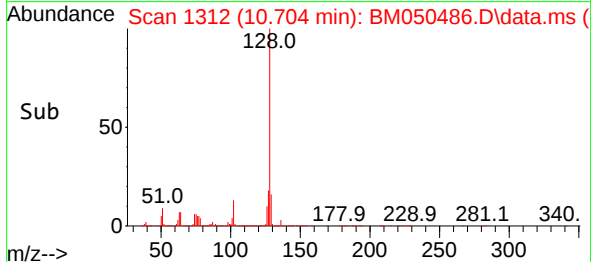
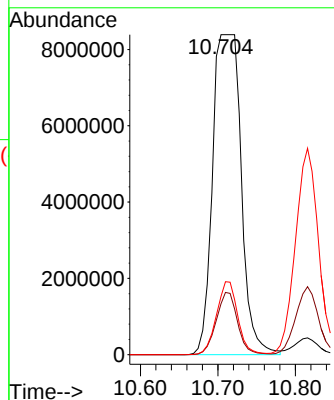
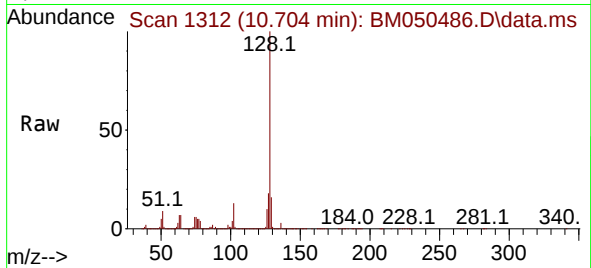




#31
Naphthalene
Concen: 29.990 ng
RT: 10.704 min Scan# 11
Delta R.T. 0.012 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

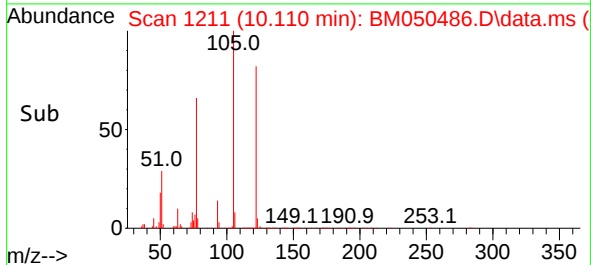
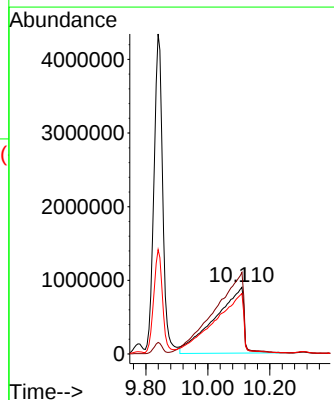
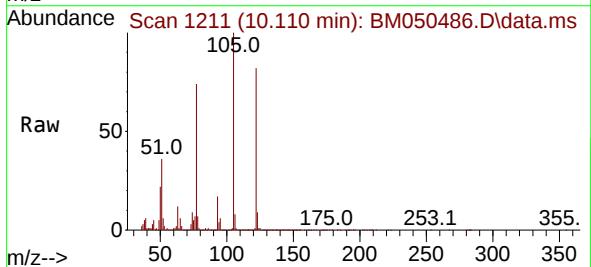
Instrument :
BNA_M
ClientSampleId :

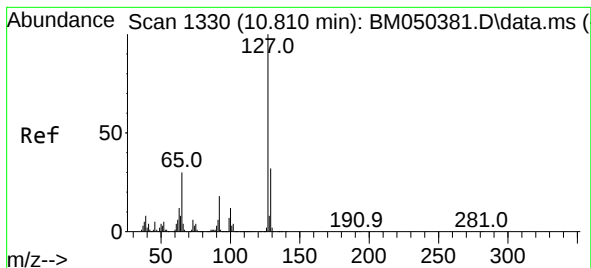
Tgt Ion:128 Resp:21509922
Ion Ratio Lower Upper
128 100
129 15.9 8.8 13.2#
127 18.2 10.4 15.6#



#32
Benzoic acid
Concen: 44.952 ng
RT: 10.110 min Scan# 1211
Delta R.T. 0.176 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:122 Resp: 5853274
Ion Ratio Lower Upper
122 100
105 122.2 104.0 144.0
77 90.6 73.8 113.8





#33

4-Chloroaniline

Concen: 37.754 ng

RT: 10.816 min Scan# 1

Delta R.T. 0.023 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

Instrument :

BNA_M

ClientSampleId :

Tgt Ion:127 Resp:11447823

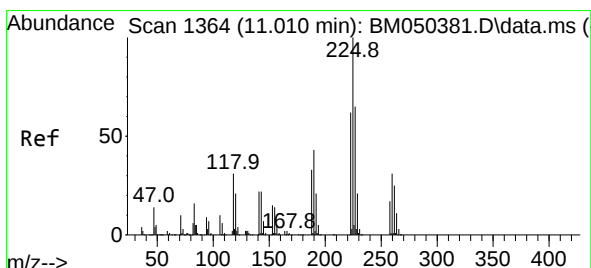
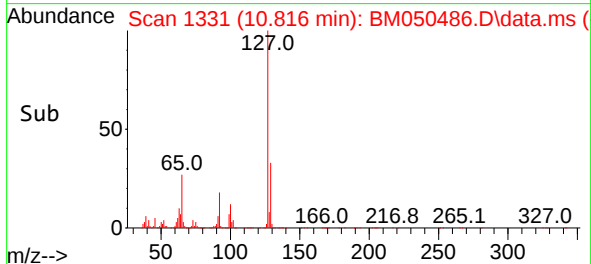
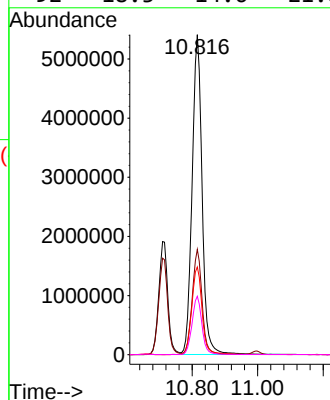
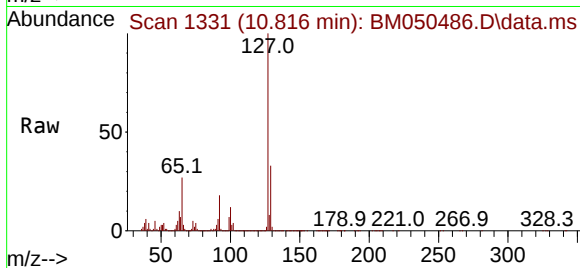
Ion Ratio Lower Upper

127 100

129 32.9 25.5 38.3

65 27.4 23.9 35.9

92 18.3 14.6 21.8



#34

Hexachlorobutadiene

Concen: 47.148 ng

RT: 10.998 min Scan# 1362

Delta R.T. 0.012 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

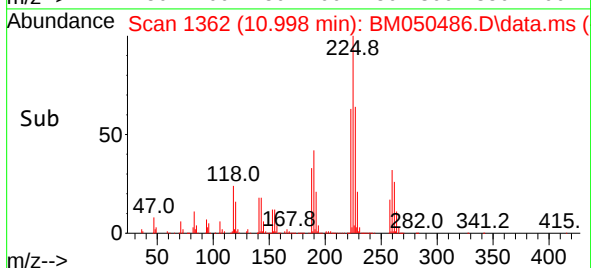
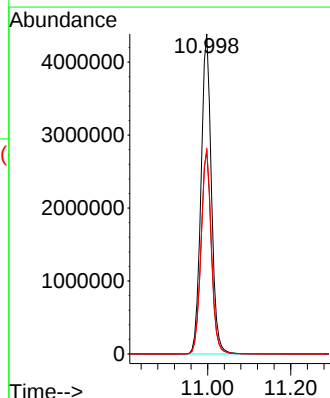
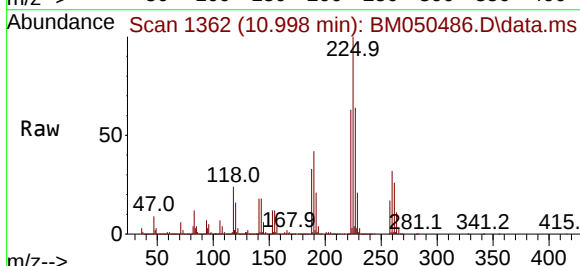
Tgt Ion:225 Resp: 7575405

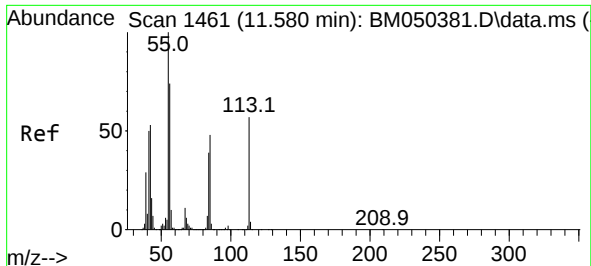
Ion Ratio Lower Upper

225 100

223 63.5 49.7 74.5

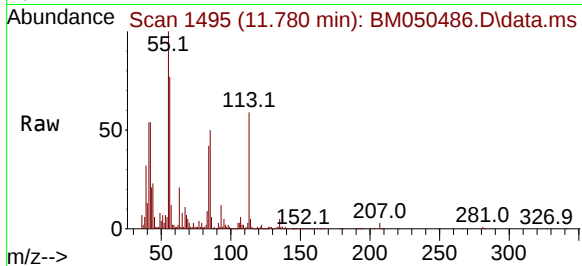
227 64.2 52.1 78.1



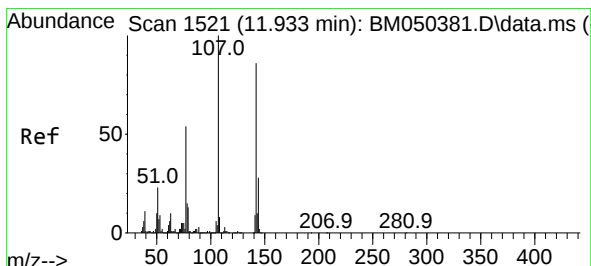
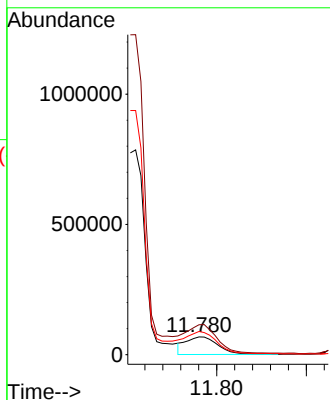
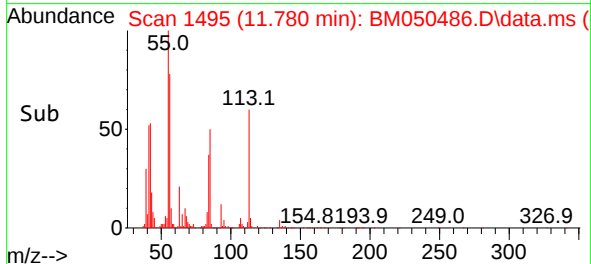


#35
Caprolactam
Concen: 2.789 ng
RT: 11.780 min Scan# 1461
Delta R.T. 0.206 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Instrument :
BNA_M
ClientSampleId :

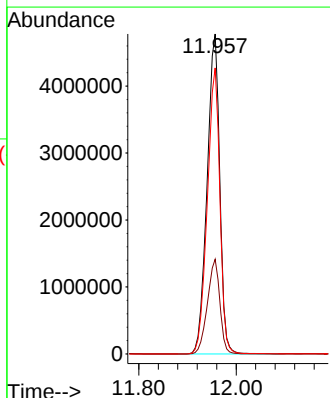
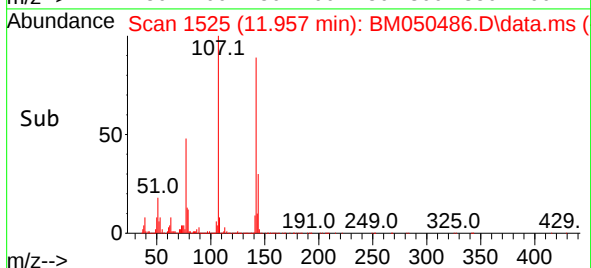
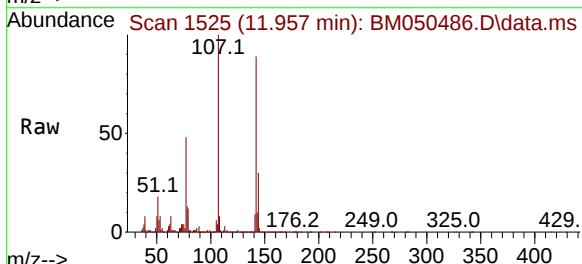


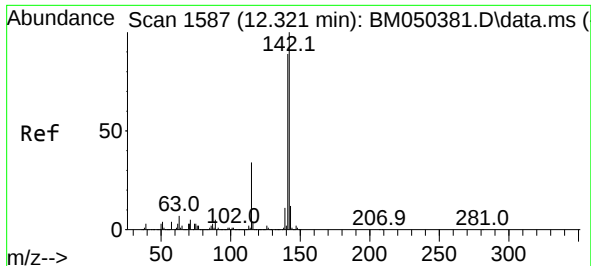
Tgt Ion:113 Resp: 167570
Ion Ratio Lower Upper
113 100
55 169.1 157.2 197.2
56 130.5 111.7 151.7



#36
4-Chloro-3-methylphenol
Concen: 41.764 ng
RT: 11.957 min Scan# 1525
Delta R.T. 0.041 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:107 Resp: 8582369
Ion Ratio Lower Upper
107 100
144 29.6 22.2 33.4
142 89.4 68.7 103.1

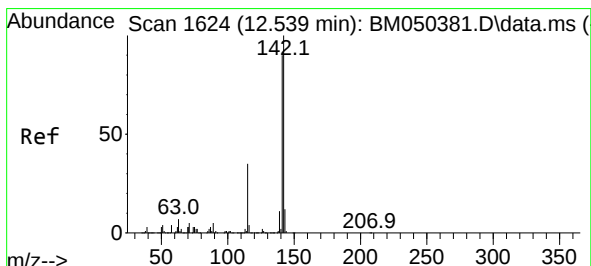
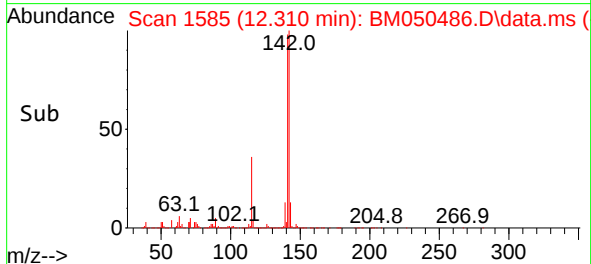
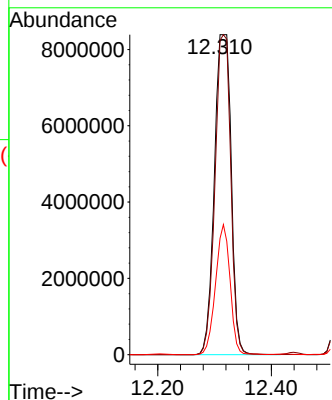
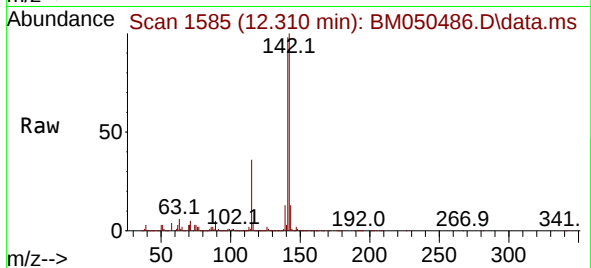




#37
2-Methylnaphthalene
Concen: 38.032 ng
RT: 12.310 min Scan# 1585
Delta R.T. 0.006 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

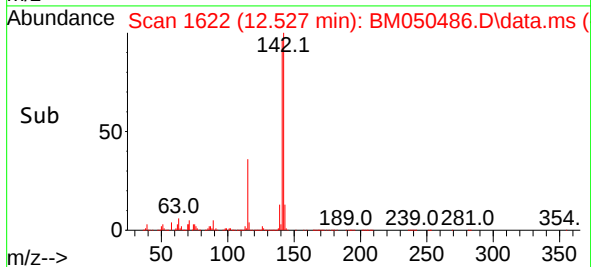
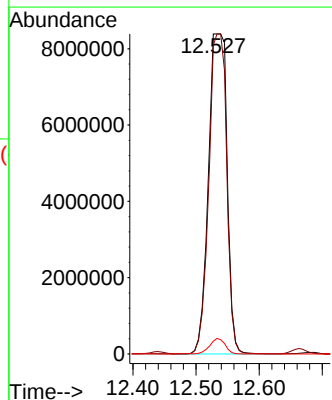
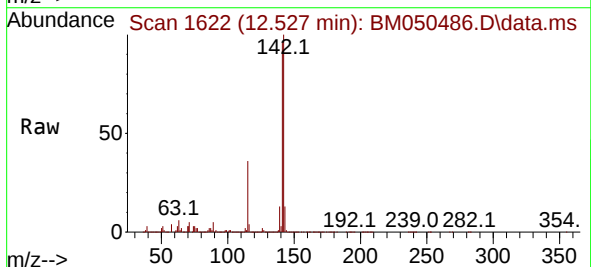
Instrument :
BNA_M
ClientSampleId :

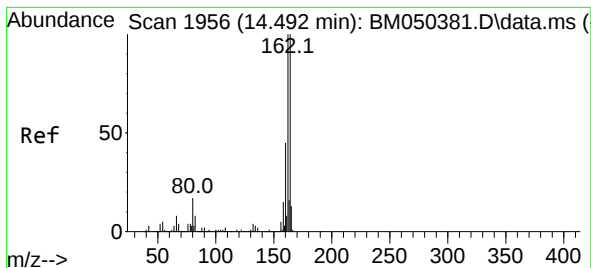
Tgt Ion:142 Resp:17223596
Ion Ratio Lower Upper
142 100
141 98.2 70.8 106.2
115 36.3 27.0 40.4



#38
1-Methylnaphthalene
Concen: 36.033 ng
RT: 12.527 min Scan# 1622
Delta R.T. 0.006 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:142 Resp:17269441
Ion Ratio Lower Upper
142 100
141 96.5 71.9 107.9
116 4.0 3.0 4.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.492 min Scan# 1956

Delta R.T. 0.018 min

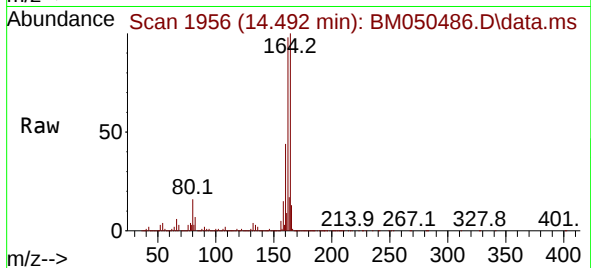
Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

Instrument :

BNA_M

ClientSampleId :



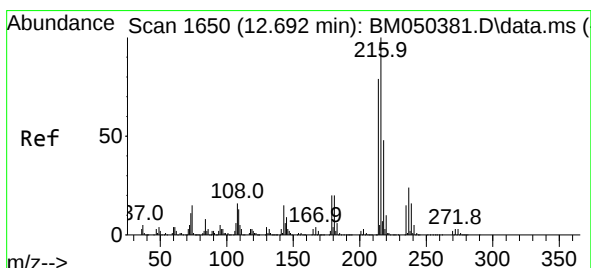
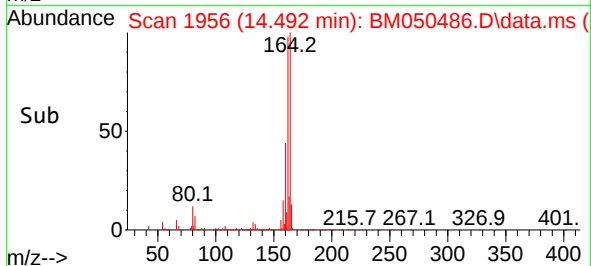
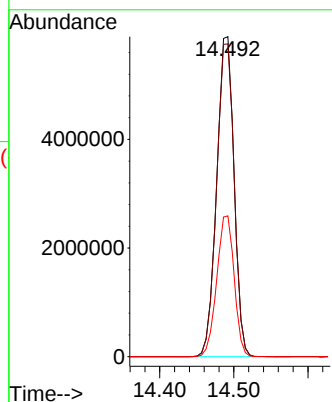
Tgt Ion:164 Resp: 9565486

Ion Ratio Lower Upper

164 100

162 97.8 79.9 119.9

160 44.0 36.2 54.4



#40

1,2,4,5-Tetrachlorobenzene

Concen: 43.273 ng

RT: 12.686 min Scan# 1649

Delta R.T. 0.018 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

Tgt Ion:216 Resp:13163211

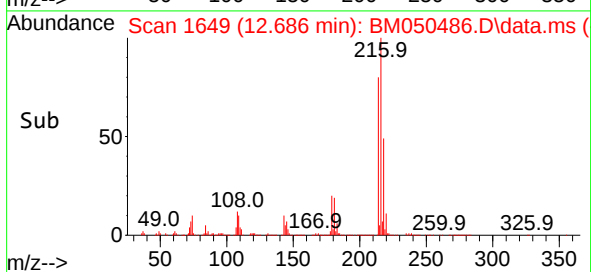
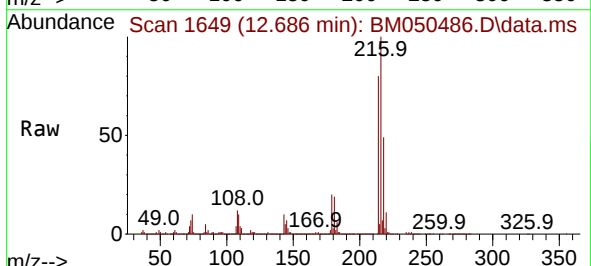
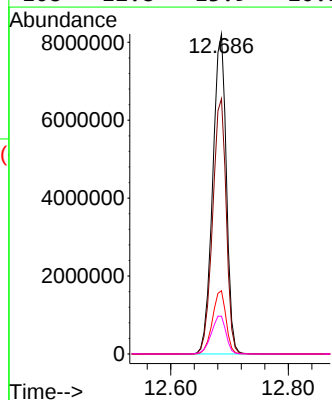
Ion Ratio Lower Upper

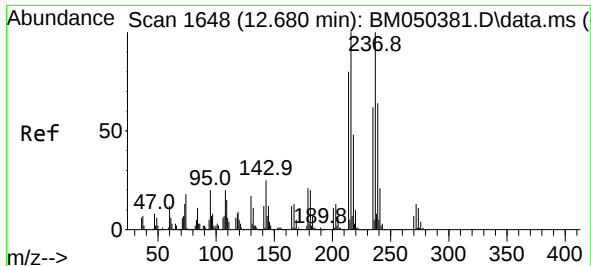
216 100

214 79.6 63.3 94.9

179 19.7 16.4 24.6

108 12.8 13.9 20.9#

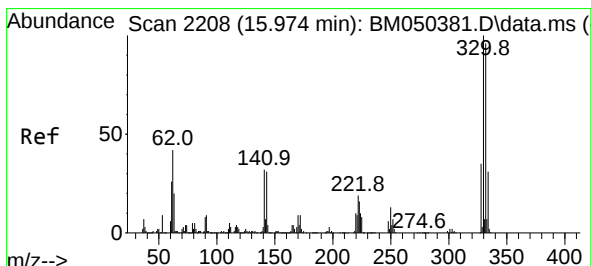
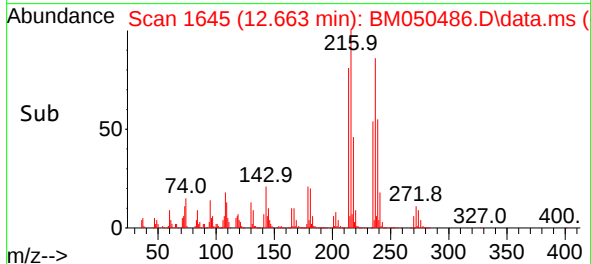
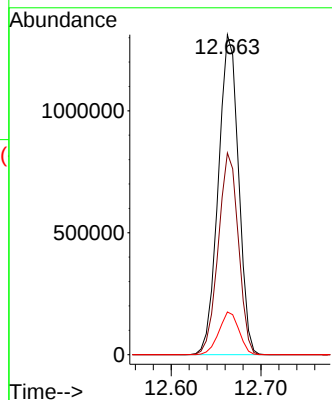
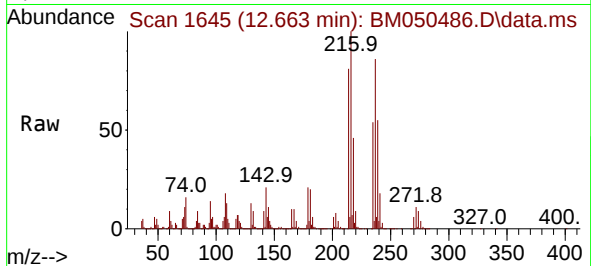




#41
Hexachlorocyclopentadiene
Concen: 10.560 ng
RT: 12.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

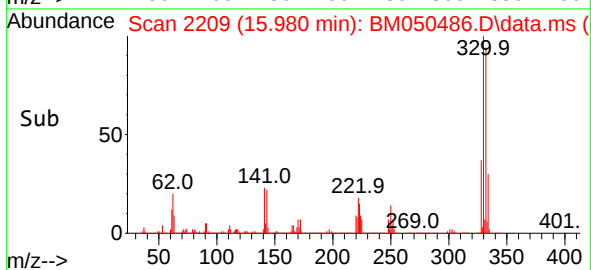
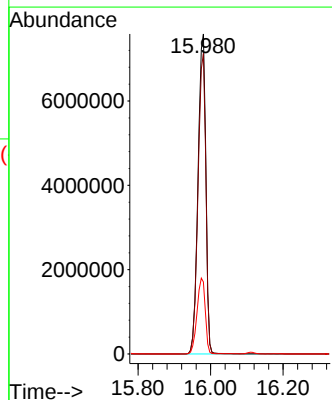
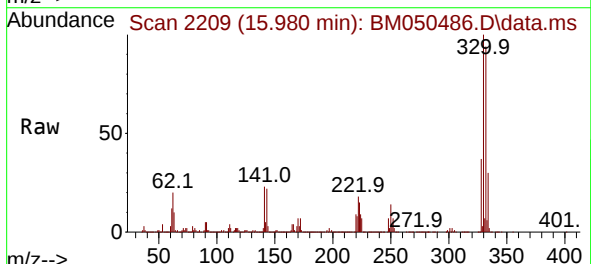
Instrument :
BNA_M
ClientSampleId :

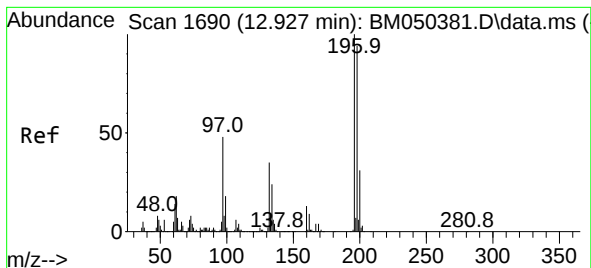
Tgt Ion:237 Resp: 2053384
Ion Ratio Lower Upper
237 100
235 63.1 42.3 82.3
272 13.4 0.0 33.0



#42
2,4,6-Tribromophenol
Concen: 97.450 ng
RT: 15.980 min Scan# 2209
Delta R.T. 0.023 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:330 Resp:11325819
Ion Ratio Lower Upper
330 100
332 94.3 76.9 115.3
141 25.0 27.4 41.0#





#43

2,4,6-Trichlorophenol

Concen: 46.003 ng

RT: 12.921 min Scan# 1

Delta R.T. 0.012 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

Instrument :

BNA_M

ClientSampleId :

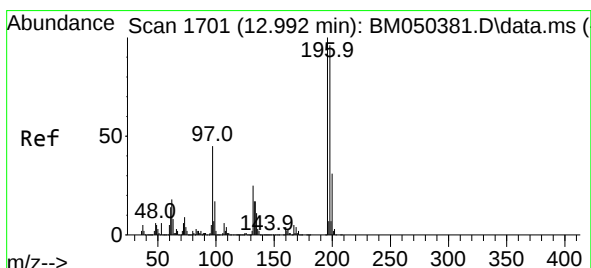
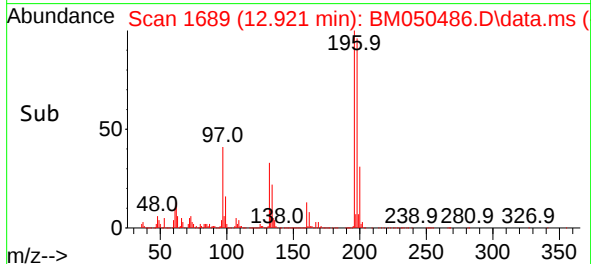
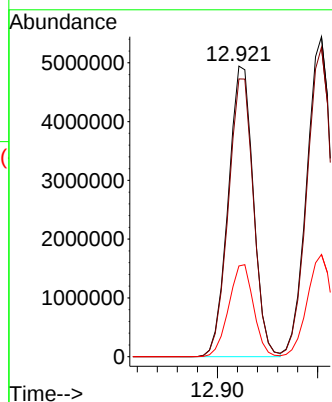
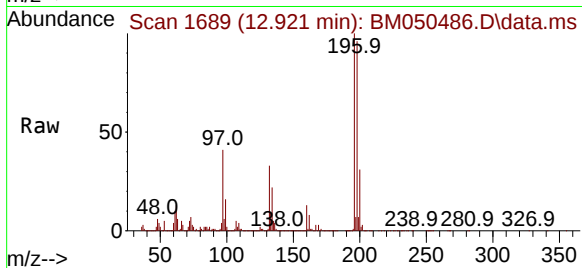
Tgt Ion:196 Resp: 8613784

Ion Ratio Lower Upper

196 100

198 95.6 75.1 112.7

200 31.2 24.6 37.0



#44

2,4,5-Trichlorophenol

Concen: 45.198 ng

RT: 13.004 min Scan# 1703

Delta R.T. 0.029 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

Tgt Ion:196 Resp: 9242520

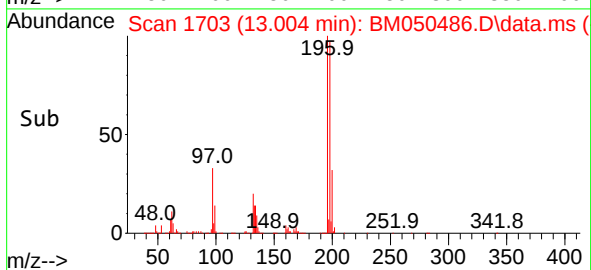
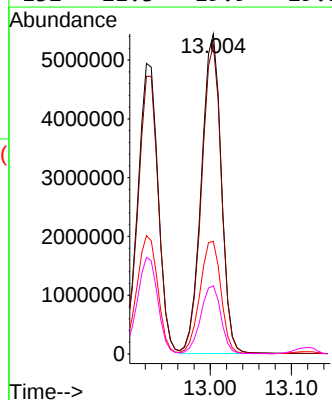
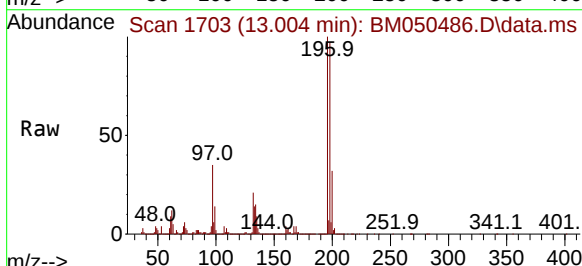
Ion Ratio Lower Upper

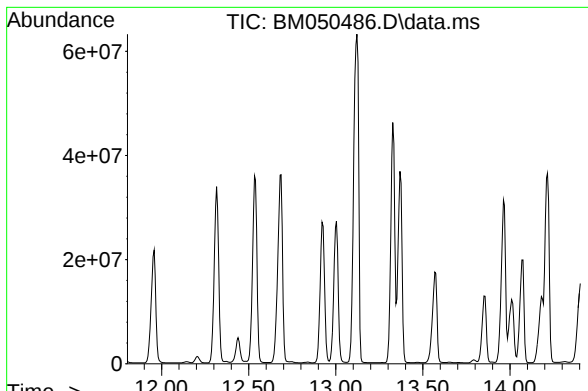
196 100

198 96.7 77.2 115.8

97 35.2 36.2 54.4#

132 21.3 19.9 29.9



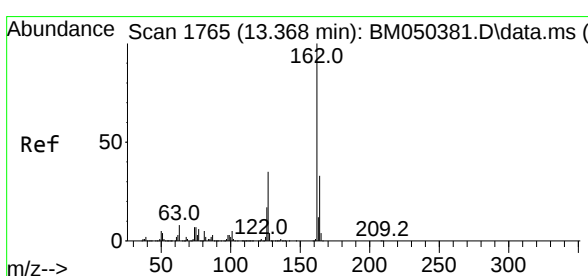
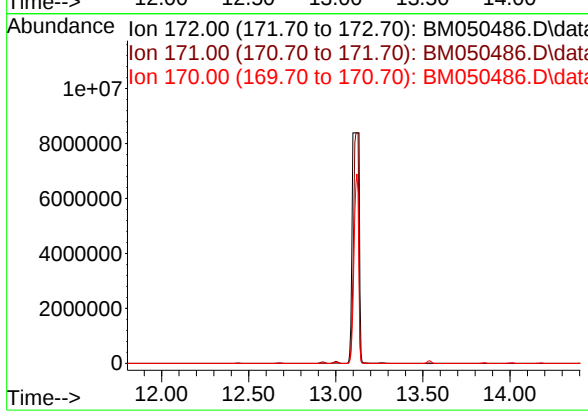


#45
 2-Fluorobiphenyl
 Concen: 0.000 ng
 Expected RT: 13.10 min
 Lab File: BM050486.D
 Acq: 22 Jul 2025 15:34

Instrument :
 BNA_M
 ClientSampleId :

Tgt Ion: 172

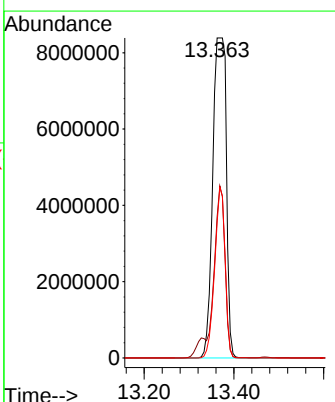
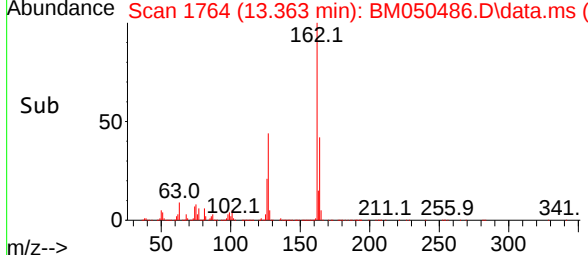
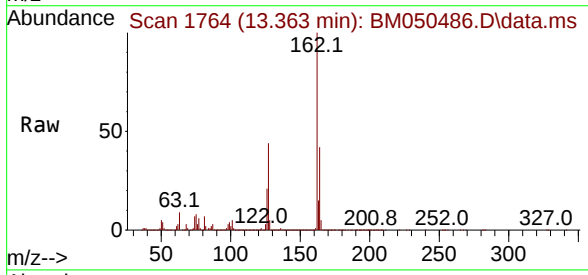
Sig	Exp Ratio
172	100
171	34.6
170	23.5

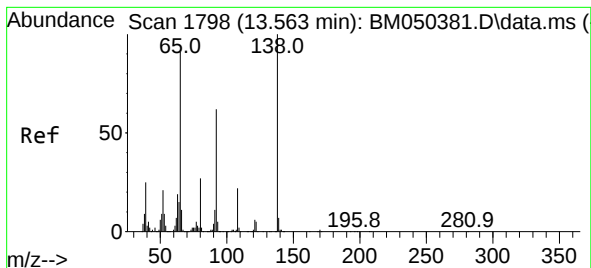


#47
 2-Chloronaphthalene
 Concen: 31.206 ng
 RT: 13.363 min Scan# 1764
 Delta R.T. 0.012 min
 Lab File: BM050486.D
 Acq: 22 Jul 2025 15:34

Tgt Ion: 162 Resp: 17658081

Ion	Ratio	Lower	Upper
162	100		
127	44.1	28.3	42.5#
164	42.3	26.6	40.0#

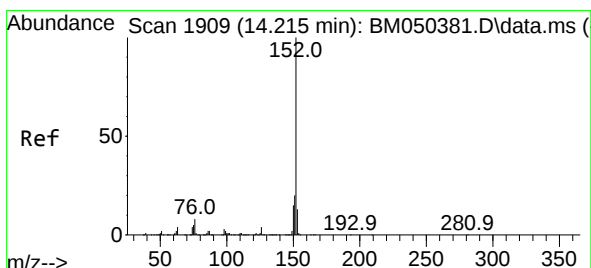
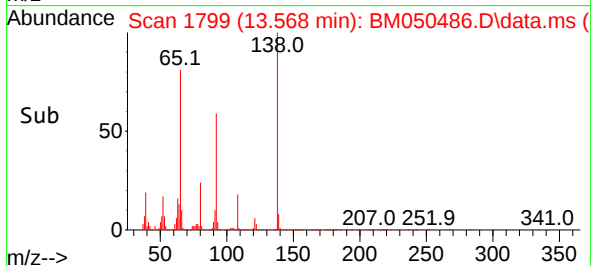
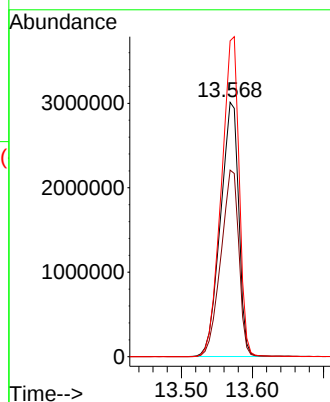
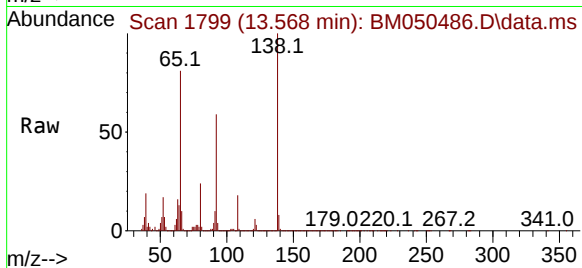




#48
2-Nitroaniline
Concen: 42.466 ng
RT: 13.568 min Scan# 1
Delta R.T. 0.023 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

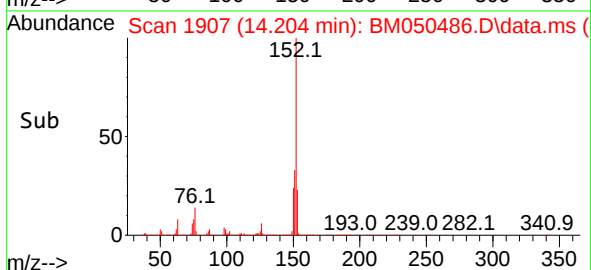
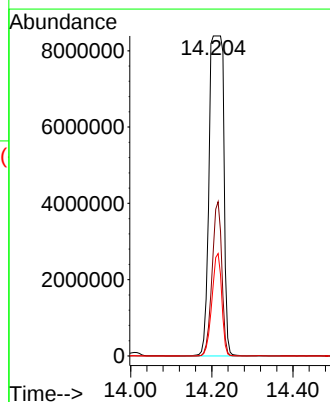
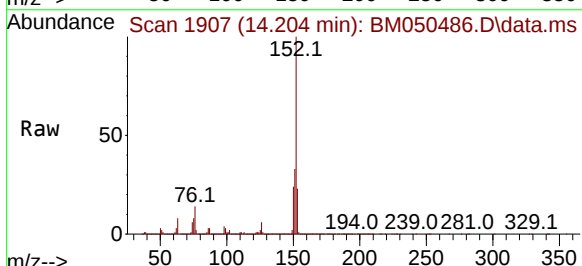
Instrument :
BNA_M
ClientSampleId :

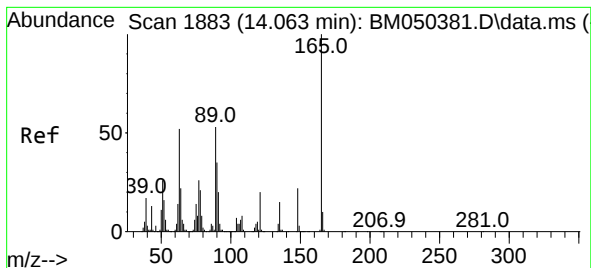
Tgt Ion: 65 Resp: 5363541
Ion Ratio Lower Upper
65 100
92 73.3 54.3 81.5
138 124.2 87.8 131.6



#49
Acenaphthylene
Concen: 24.247 ng
RT: 14.204 min Scan# 1907
Delta R.T. 0.006 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:152 Resp:20735150
Ion Ratio Lower Upper
152 100
151 33.2 16.3 24.5#
153 22.6 10.6 15.8#

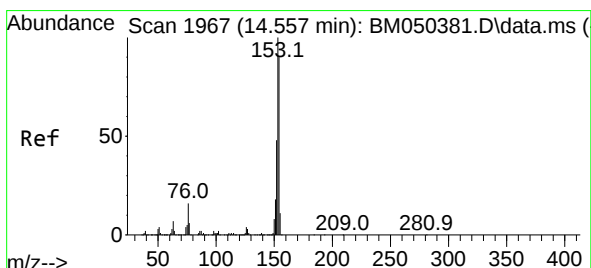
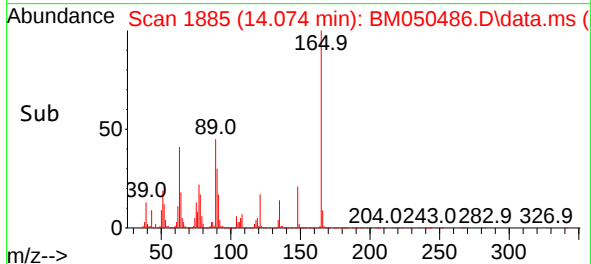
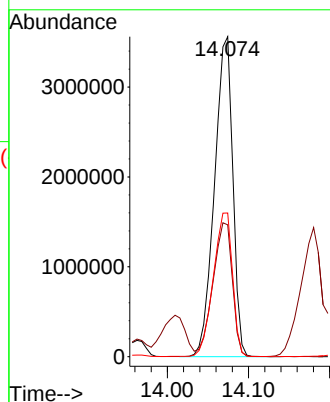
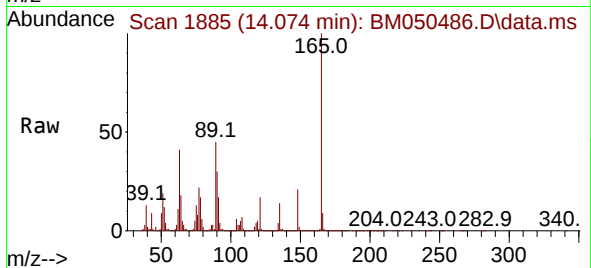




#51
2,6-Dinitrotoluene
Concen: 44.196 ng
RT: 14.074 min Scan# 1885
Delta R.T. 0.029 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

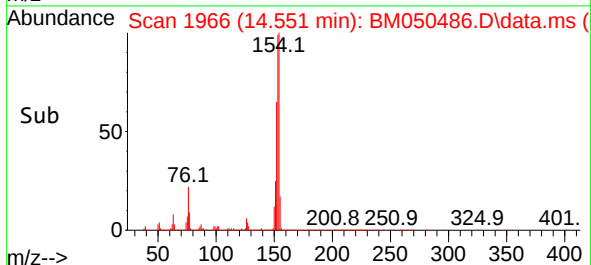
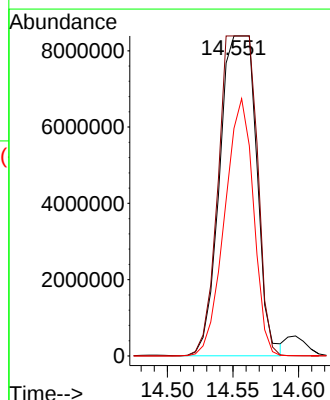
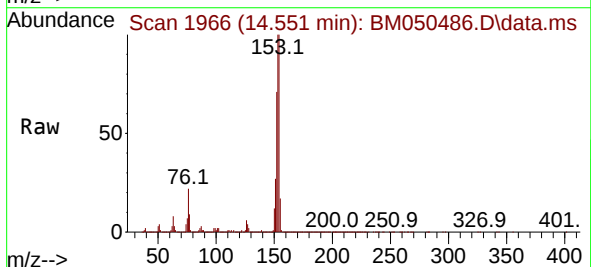
Instrument :
BNA_M
ClientSampleId :

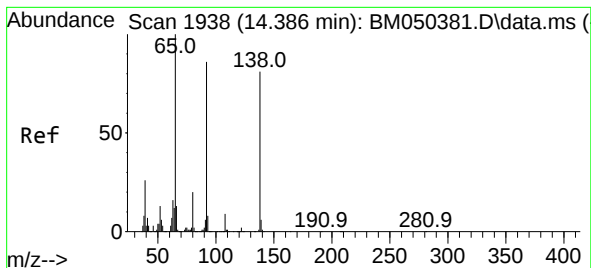
Tgt Ion:165 Resp: 5588453
Ion Ratio Lower Upper
165 100
63 41.2 42.4 63.6#
89 44.9 42.2 63.2



#52
Acenaphthene
Concen: 30.046 ng
RT: 14.551 min Scan# 1966
Delta R.T. 0.012 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:154 Resp:16335221
Ion Ratio Lower Upper
154 100
153 100.0 89.2 133.8
152 71.1 42.6 64.0#

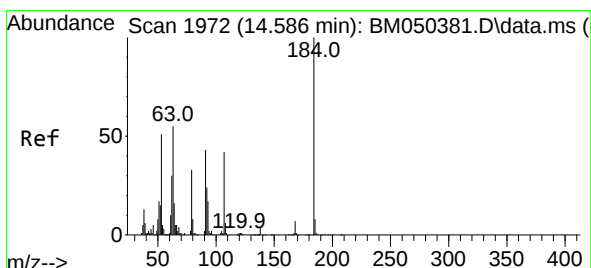
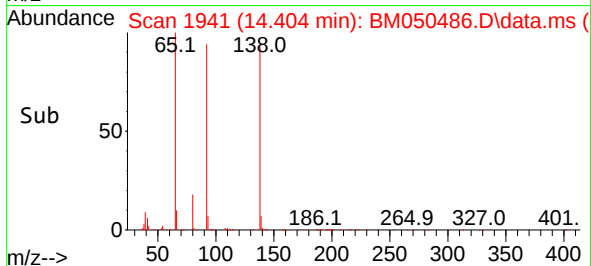
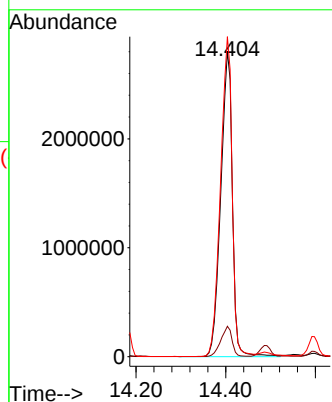
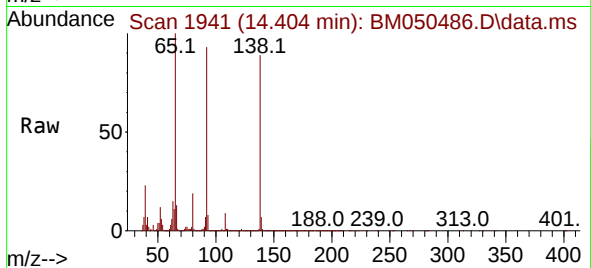




#53
3-Nitroaniline
Concen: 37.244 ng
RT: 14.404 min Scan# 1938
Delta R.T. 0.035 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

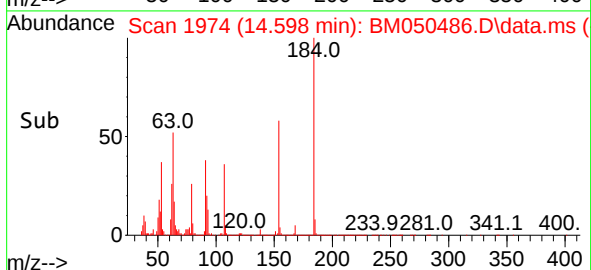
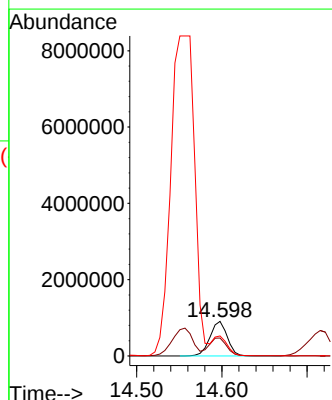
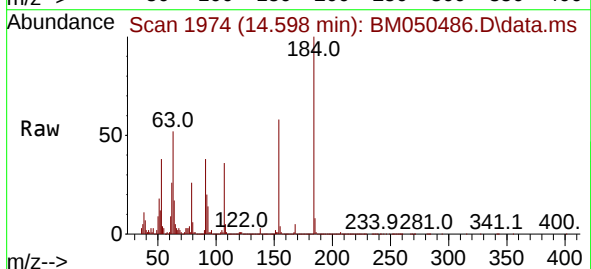
Instrument :
BNA_M
ClientSampleId :

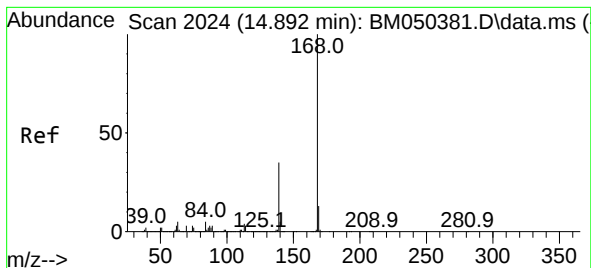
Tgt Ion:138 Resp: 5008391
Ion Ratio Lower Upper
138 100
108 10.0 8.8 13.2
92 104.8 85.0 127.6



#54
2,4-Dinitrophenol
Concen: 23.281 ng
RT: 14.598 min Scan# 1974
Delta R.T. 0.023 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:184 Resp: 1279868
Ion Ratio Lower Upper
184 100
63 52.1 53.4 80.0#
154 58.2 61.6 92.4#





#55

Dibenzofuran

Concen: 2.285 ng

RT: 15.033 min Scan# 20

Delta R.T. 0.159 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

Instrument :

BNA_M

ClientSampleId :

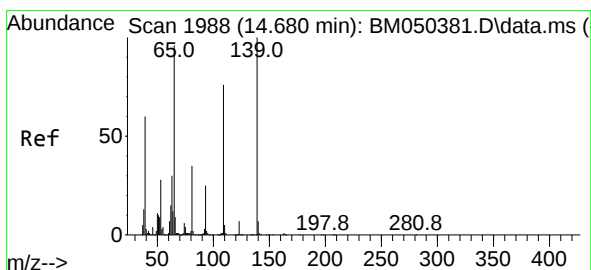
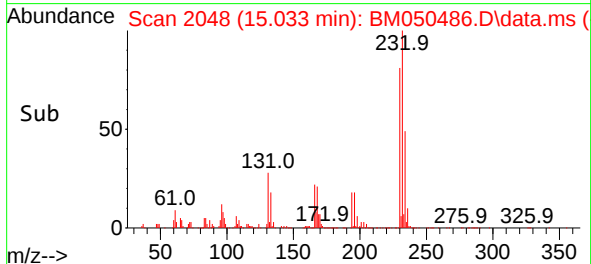
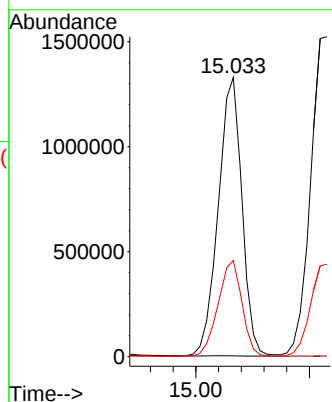
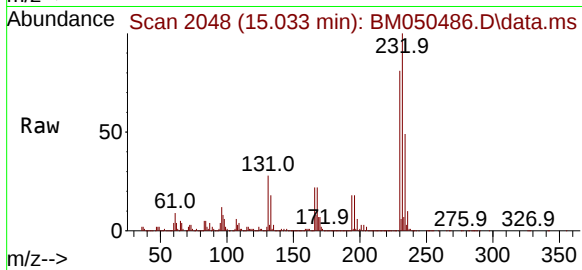
Tgt Ion:168 Resp: 1914080

Ion Ratio Lower Upper

168 100

139 0.3 27.7 41.5#

169 34.4 10.7 16.1#



#56

4-Nitrophenol

Concen: 40.511 ng

RT: 14.715 min Scan# 1994

Delta R.T. 0.041 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

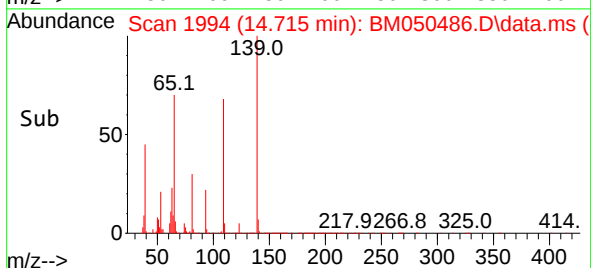
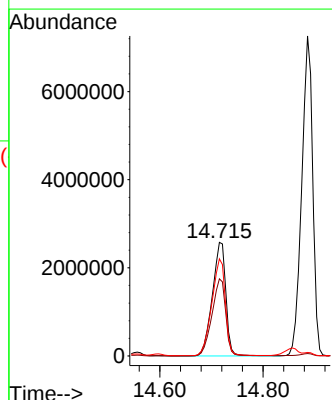
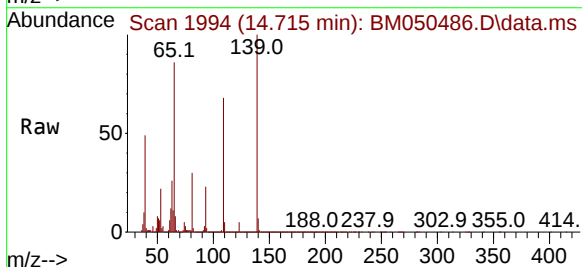
Tgt Ion:139 Resp: 4684788

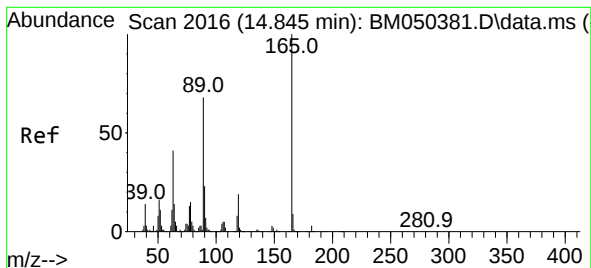
Ion Ratio Lower Upper

139 100

109 68.0 56.5 96.5

65 85.6 76.4 116.4

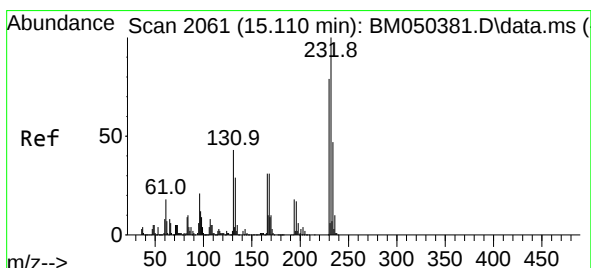
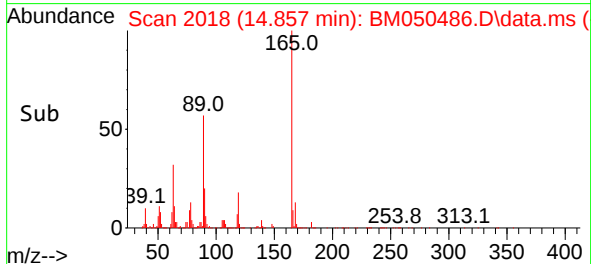
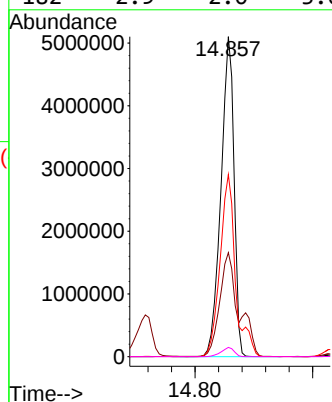
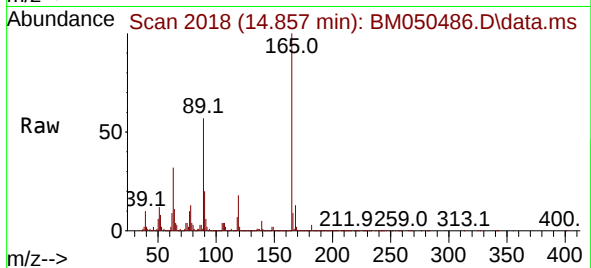




#57
2,4-Dinitrotoluene
Concen: 42.002 ng
RT: 14.857 min Scan# 2016
Delta R.T. 0.029 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

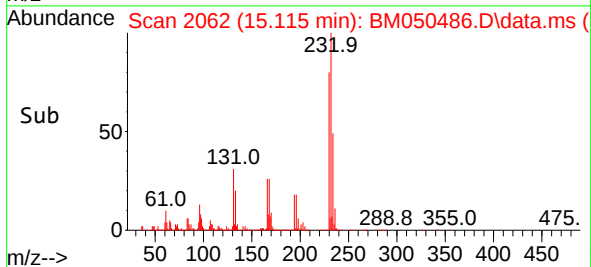
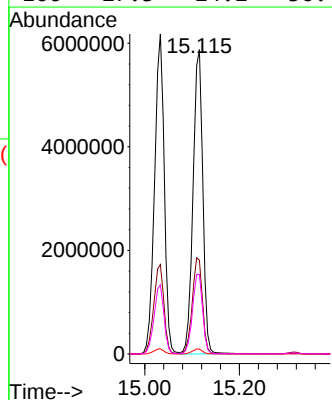
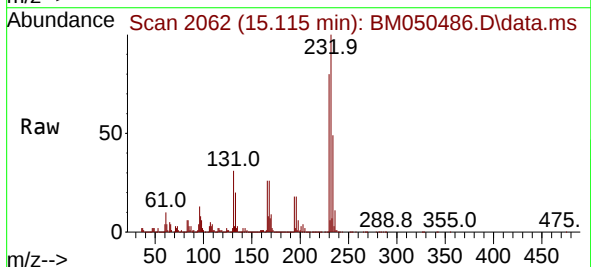
Instrument :
BNA_M
ClientSampleId :

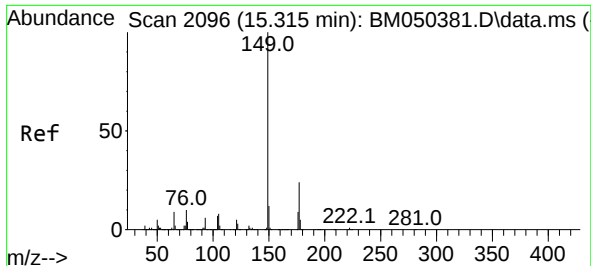
Tgt Ion:165 Resp: 7882341
Ion Ratio Lower Upper
165 100
63 32.5 32.5 48.7
89 56.9 54.0 81.0
182 2.9 2.0 3.0



#59
2,3,4,6-Tetrachlorophenol
Concen: 48.855 ng
RT: 15.115 min Scan# 2062
Delta R.T. 0.018 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

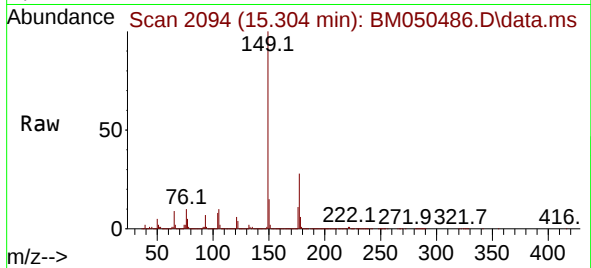
Tgt Ion:232 Resp: 8409981
Ion Ratio Lower Upper
232 100
131 33.1 33.4 50.0#
130 1.7 1.8 2.6#
166 27.3 24.2 36.4



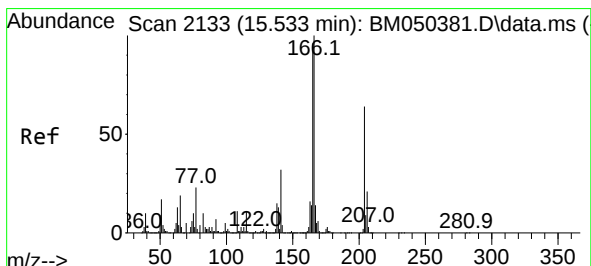
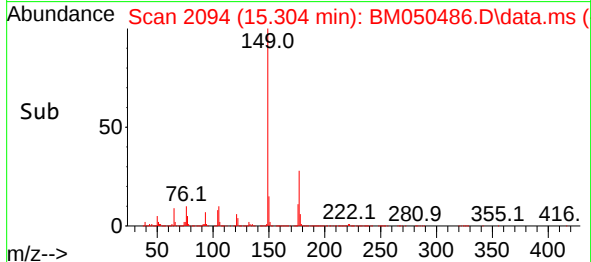
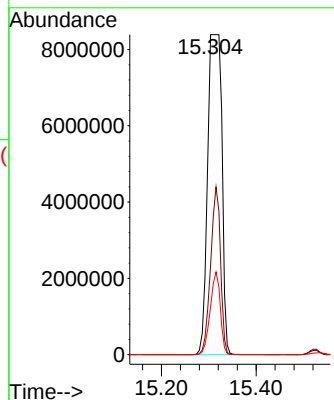


#60
Diethylphthalate
Concen: 27.881 ng
RT: 15.304 min Scan# 2094
Delta R.T. 0.012 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Instrument :
BNA_M
ClientSampleId :

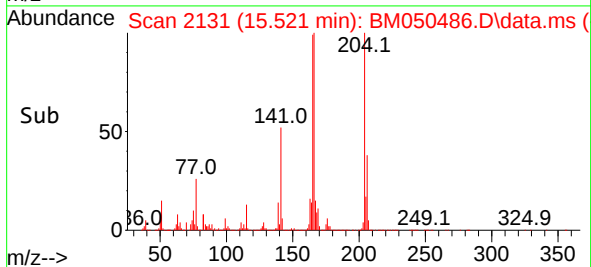
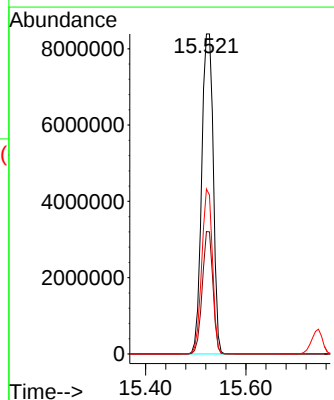
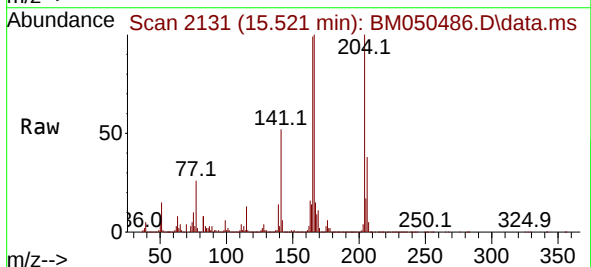


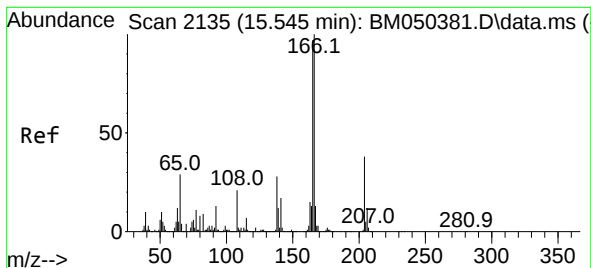
Tgt Ion:149 Resp:17539579
Ion Ratio Lower Upper
149 100
177 27.9 18.8 28.2
150 15.0 9.8 14.8#



#61
4-Chlorophenyl-phenylether
Concen: 37.102 ng
RT: 15.521 min Scan# 2131
Delta R.T. 0.006 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:204 Resp:13385858
Ion Ratio Lower Upper
204 100
206 38.2 26.6 39.8
141 51.6 39.9 59.9

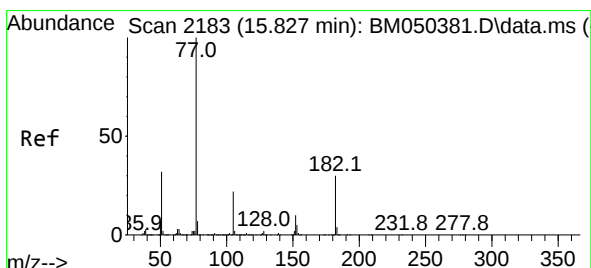
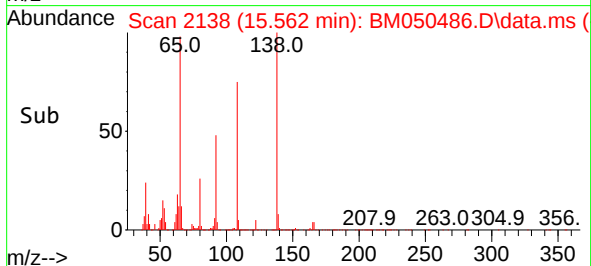
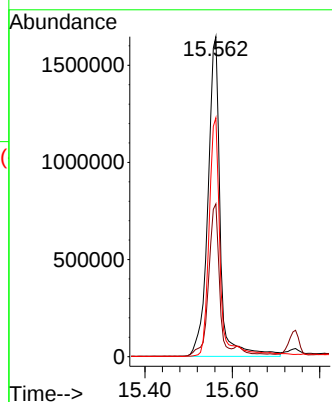
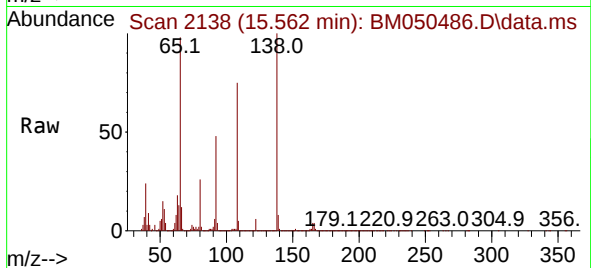




#62
4-Nitroaniline
Concen: 22.336 ng
RT: 15.562 min Scan# 2138
Delta R.T. 0.035 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

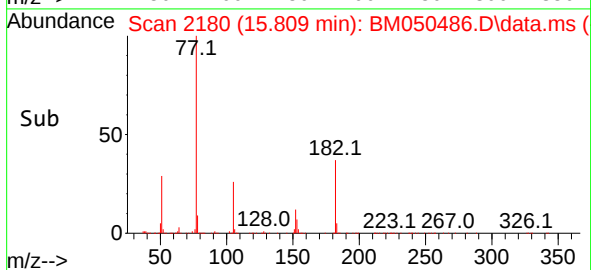
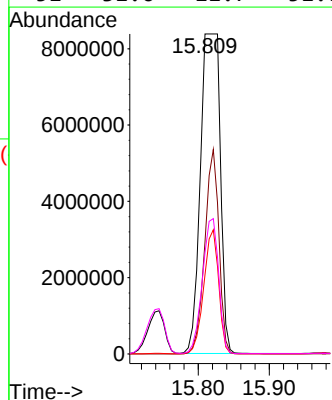
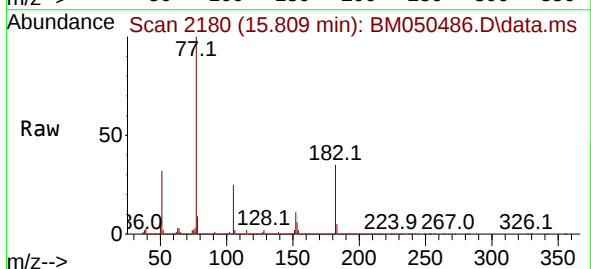
Instrument :
BNA_M
ClientSampleId :

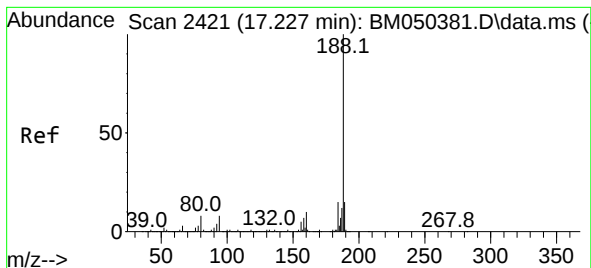
Tgt Ion:138 Resp: 3227045
Ion Ratio Lower Upper
138 100
92 47.7 24.5 64.5
108 74.7 52.5 92.5



#63
Azobenzene
Concen: 28.330 ng
RT: 15.809 min Scan# 2180
Delta R.T. 0.006 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion: 77 Resp:16364609
Ion Ratio Lower Upper
77 100
182 35.0 10.0 50.0
105 24.8 2.0 42.0
51 31.6 11.7 51.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.215 min Scan# 24

Delta R.T. 0.006 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

Instrument :

BNA_M

ClientSampleId :

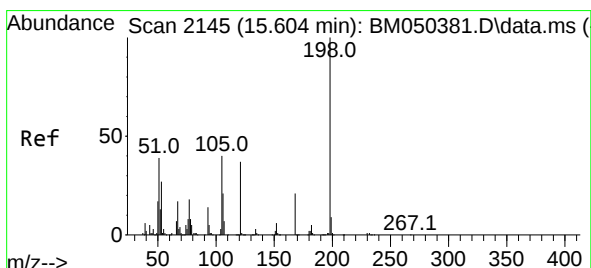
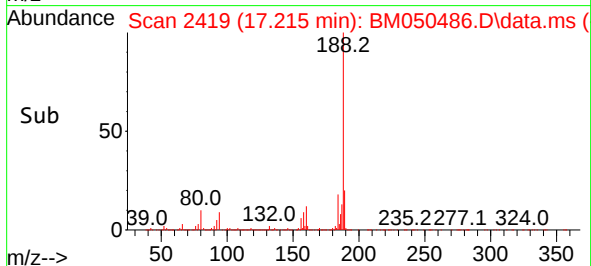
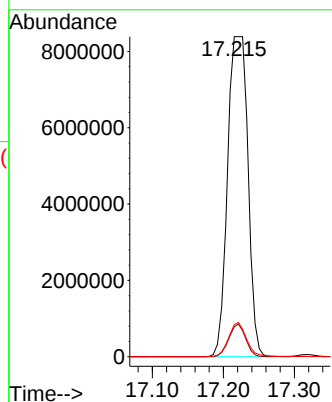
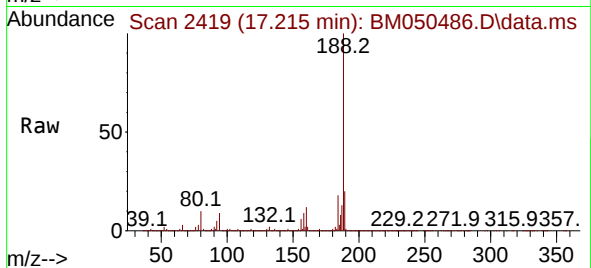
Tgt Ion:188 Resp:16719829

Ion Ratio Lower Upper

188 100

94 9.4 6.0 9.0#

80 10.0 6.5 9.7#



#65

4,6-Dinitro-2-methylphenol

Concen: 26.818 ng

RT: 15.615 min Scan# 2147

Delta R.T. 0.029 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

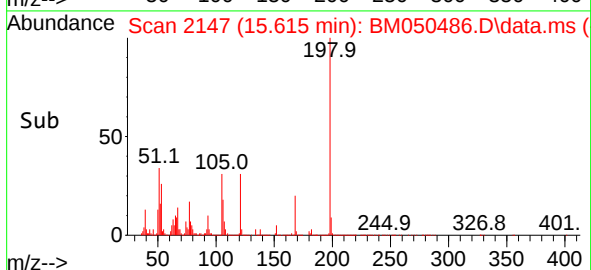
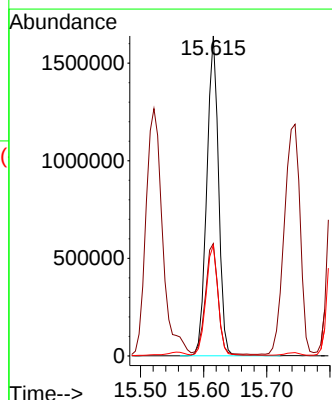
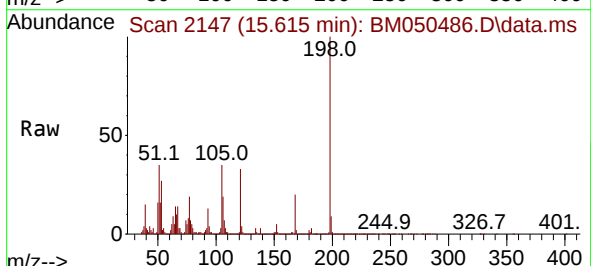
Tgt Ion:198 Resp: 2123173

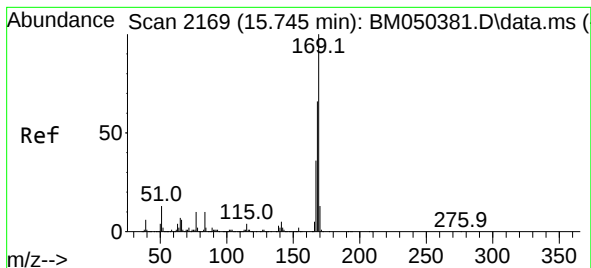
Ion Ratio Lower Upper

198 100

51 35.1 26.6 66.6

105 34.6 20.9 60.9





#66

n-Nitrosodiphenylamine

Concen: 32.201 ng

RT: 15.733 min Scan# 2167

Delta R.T. 0.012 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

Instrument :

BNA_M

ClientSampleId :

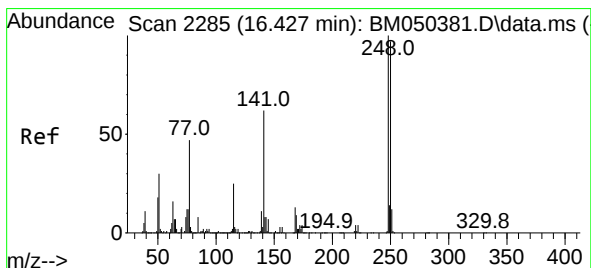
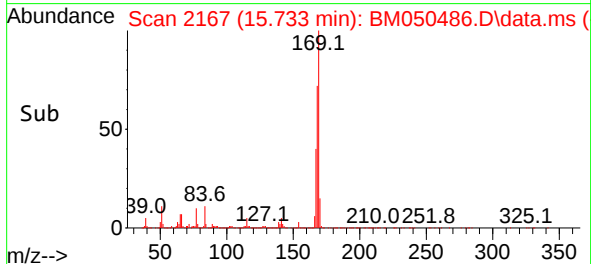
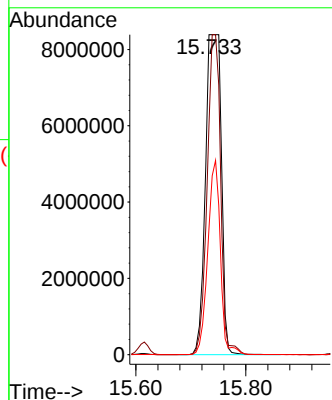
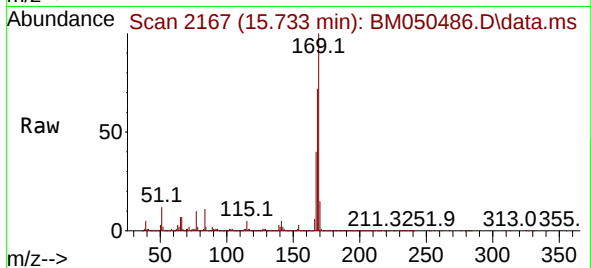
Tgt Ion:169 Resp:16847350

Ion Ratio Lower Upper

169 100

168 71.9 53.2 79.8

167 39.5 28.7 43.1



#67

4-Bromophenyl-phenylether

Concen: 53.922 ng

RT: 16.415 min Scan# 2283

Delta R.T. 0.012 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

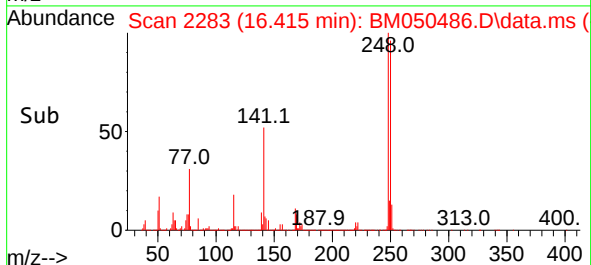
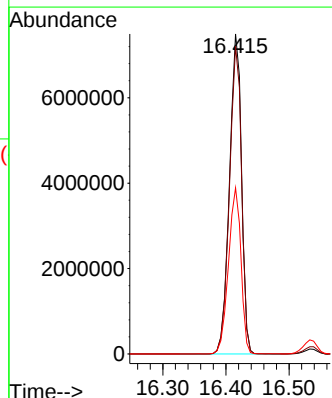
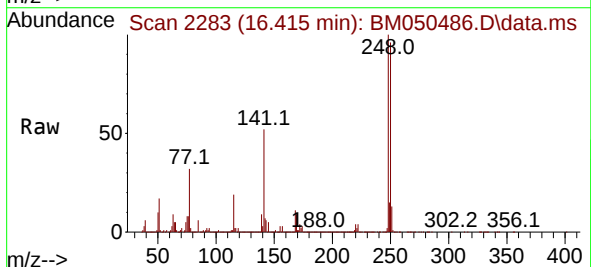
Tgt Ion:248 Resp: 9933180

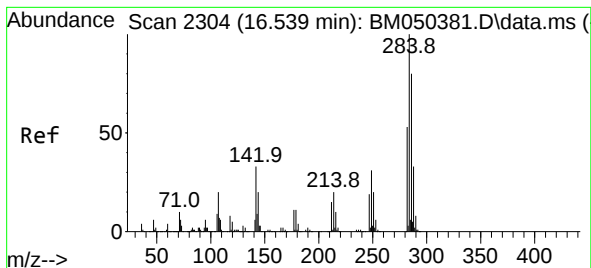
Ion Ratio Lower Upper

248 100

250 96.1 77.9 116.9

141 51.9 49.7 74.5





#68

Hexachlorobenzene

Concen: 49.462 ng

RT: 16.539 min Scan# 21

Delta R.T. 0.018 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

Instrument :

BNA_M

ClientSampleId :

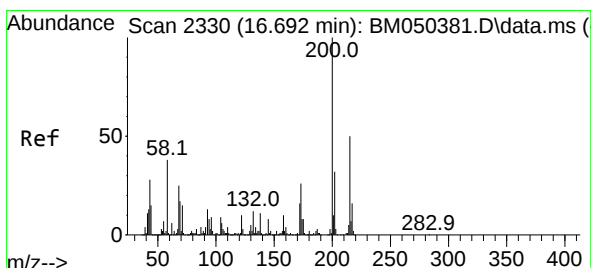
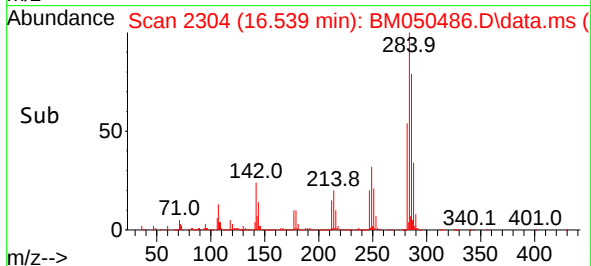
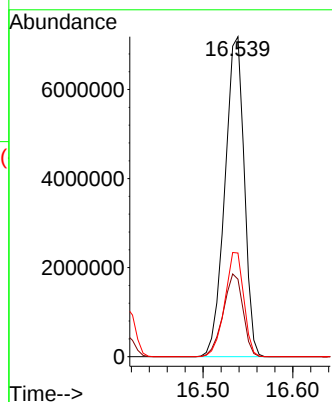
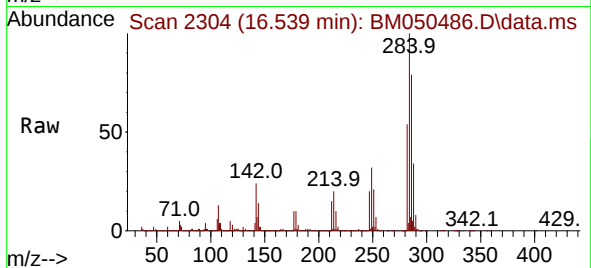
Tgt Ion:284 Resp:10761425

Ion Ratio Lower Upper

284 100

142 24.2 26.8 40.2#

249 32.4 24.5 36.7



#69

Atrazine

Concen: 40.484 ng

RT: 16.698 min Scan# 2331

Delta R.T. 0.023 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

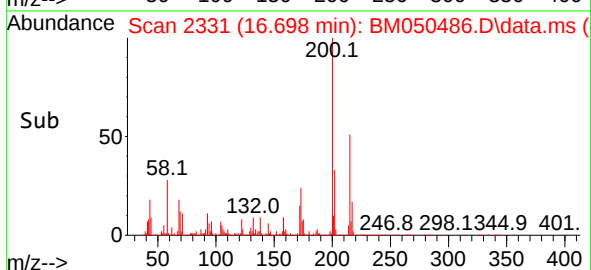
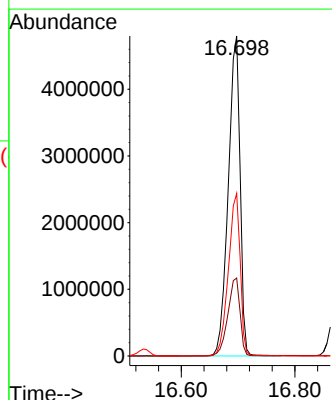
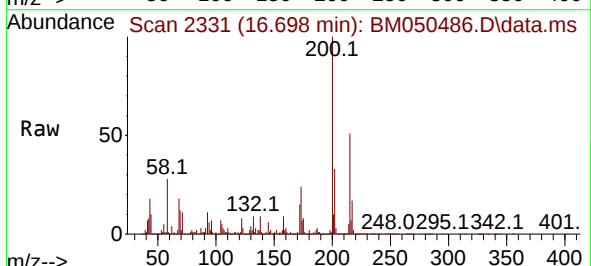
Tgt Ion:200 Resp: 6955042

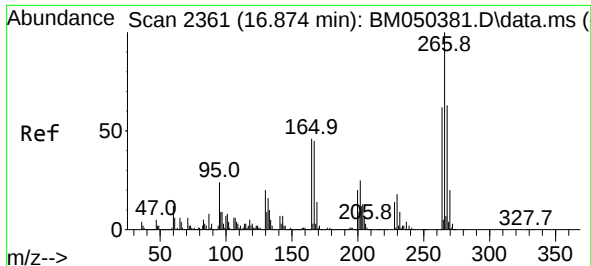
Ion Ratio Lower Upper

200 100

173 24.3 5.6 45.6

215 50.8 29.6 69.6

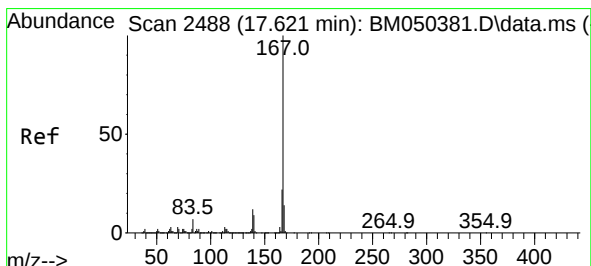
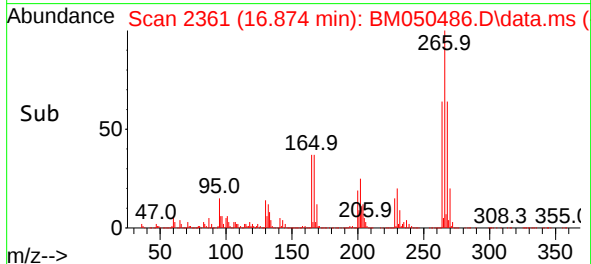
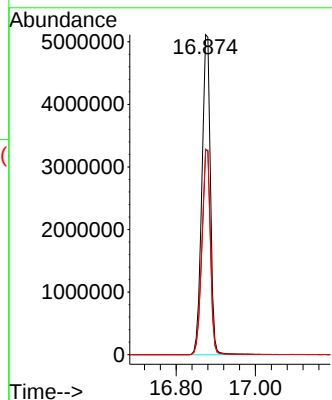
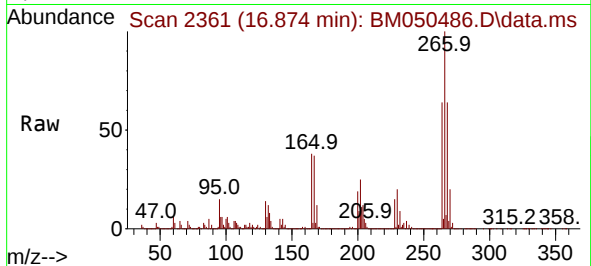




#70
Pentachlorophenol
Concen: 56.271 ng
RT: 16.874 min Scan# 21
Delta R.T. 0.018 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

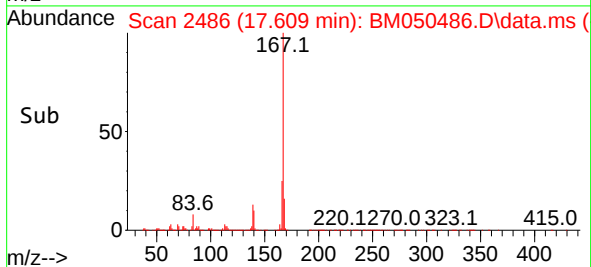
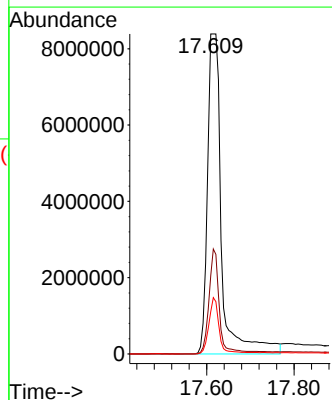
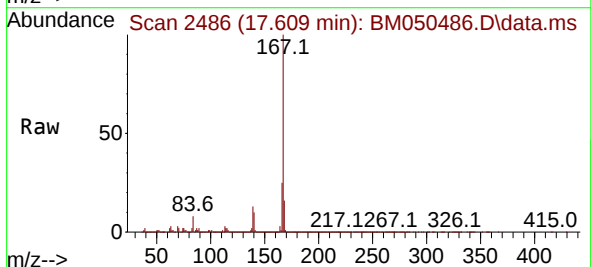
Instrument :
BNA_M
ClientSampleId :

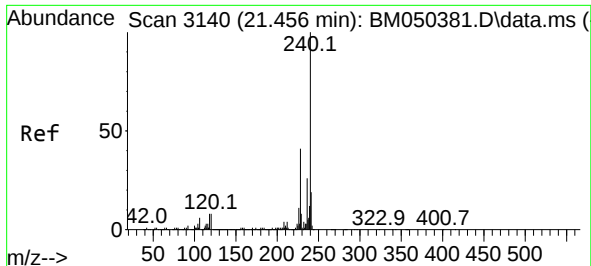
Tgt Ion:266 Resp: 7621425
Ion Ratio Lower Upper
266 100
268 63.8 50.5 75.7
264 64.2 49.9 74.9



#73
Carbazole
Concen: 22.131 ng
RT: 17.609 min Scan# 2486
Delta R.T. 0.006 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:167 Resp:18858347
Ion Ratio Lower Upper
167 100
166 24.5 17.2 25.8
139 13.2 9.9 14.9

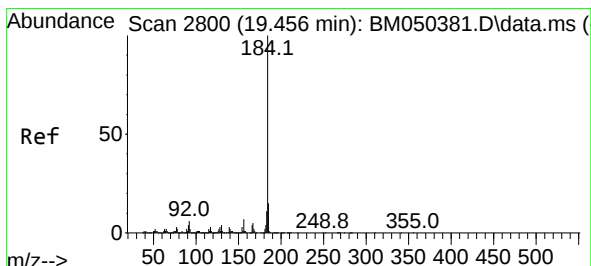
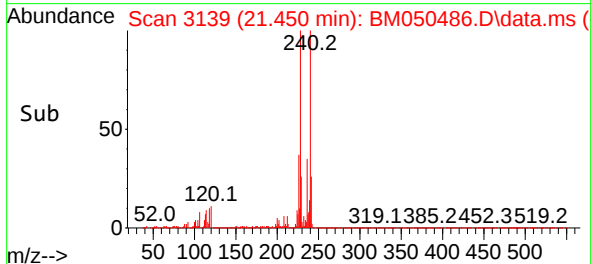
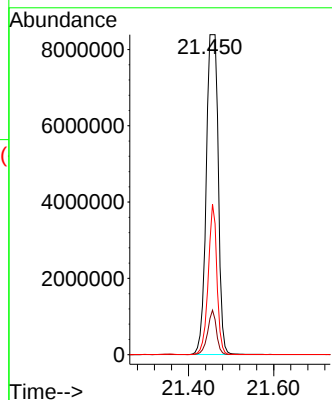
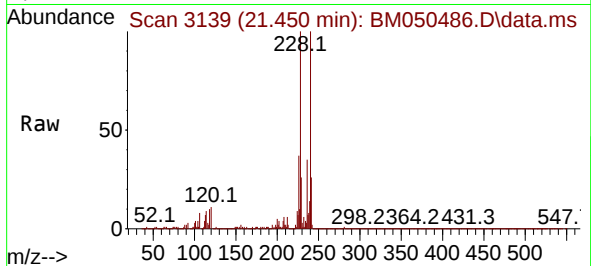




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.450 min Scan# 3140
Delta R.T. 0.018 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

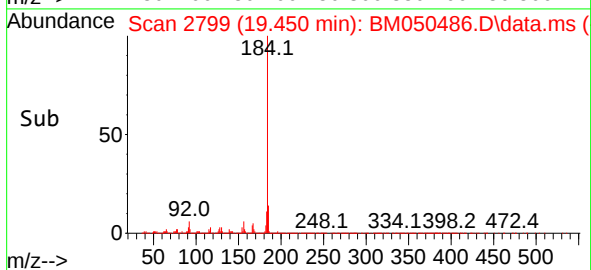
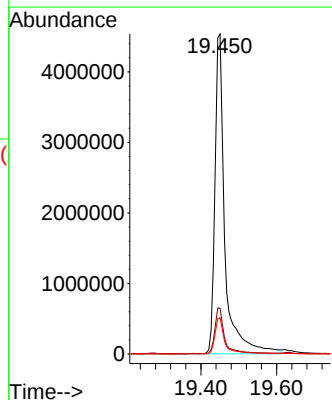
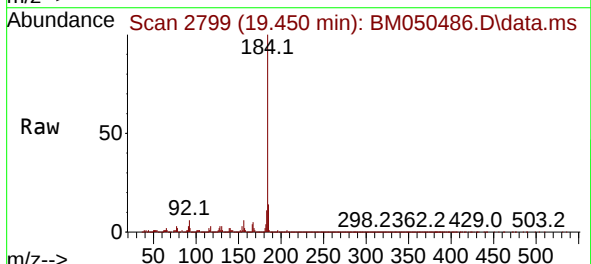
Instrument :
BNA_M
ClientSampleId :

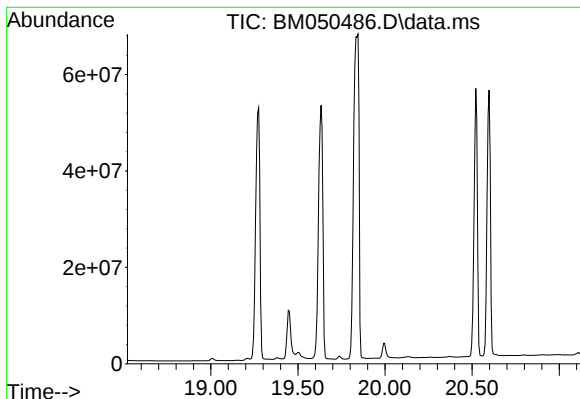
Tgt Ion:240 Resp:16385418
Ion Ratio Lower Upper
240 100
120 11.3 6.7 10.1#
236 35.4 20.7 31.1#



#77
Benzidine
Concen: 19.802 ng
RT: 19.450 min Scan# 2799
Delta R.T. 0.012 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:184 Resp: 8275850
Ion Ratio Lower Upper
184 100
185 14.3 11.7 17.5
183 11.4 9.0 13.6



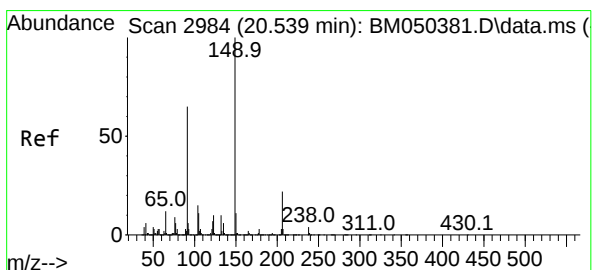
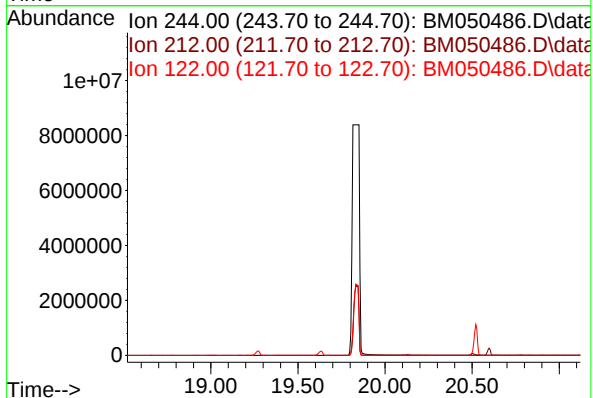


#79
 Terphenyl-d14
 Concen: 0.000 ng
 Expected RT: 19.82 min
 Lab File: BM050486.D
 Acq: 22 Jul 2025 15:34

Instrument :
 BNA_M
 ClientSampleId :

Tgt Ion: 244

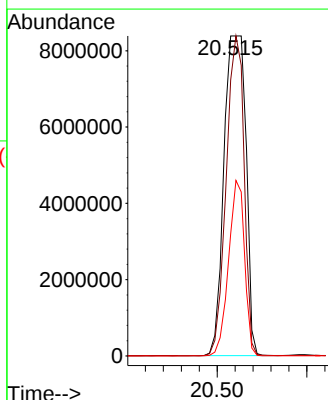
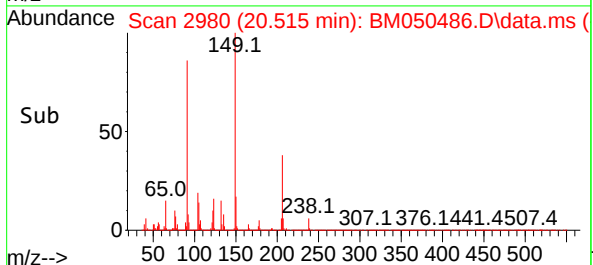
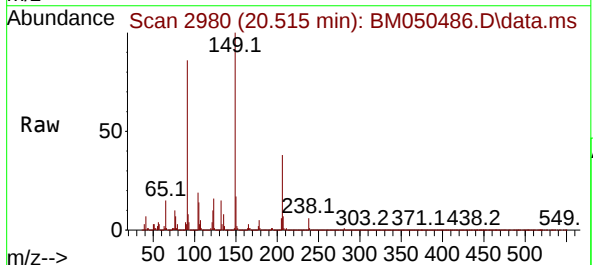
Sig	Exp Ratio
244	100
212	7.1
122	7.7

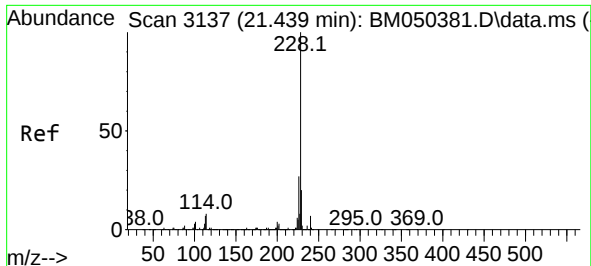


#80
 Butylbenzylphthalate
 Concen: 41.268 ng
 RT: 20.515 min Scan# 2980
 Delta R.T. -0.000 min
 Lab File: BM050486.D
 Acq: 22 Jul 2025 15:34

Tgt Ion:149 Resp:14279624

Ion	Ratio	Lower	Upper
149	100		
91	86.3	51.6	77.4#
206	38.1	17.8	26.8#

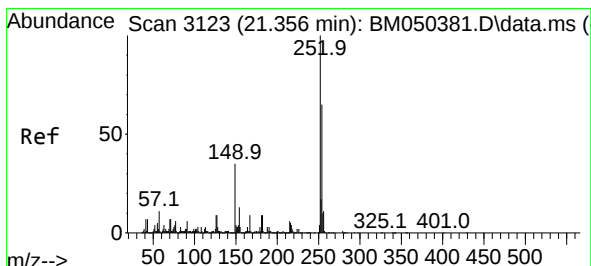
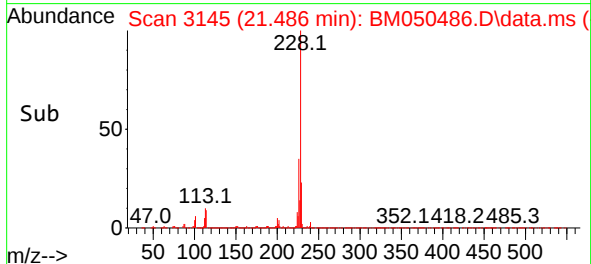
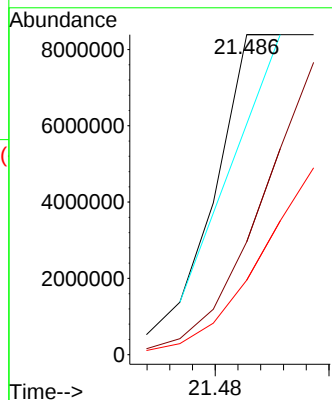
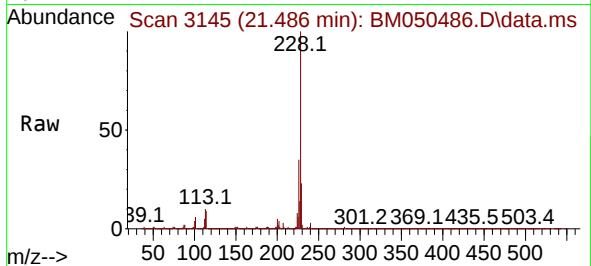




#81
Benzo(a)anthracene
Concen: 2.300 ng
RT: 21.486 min Scan# 3137
Delta R.T. 0.071 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

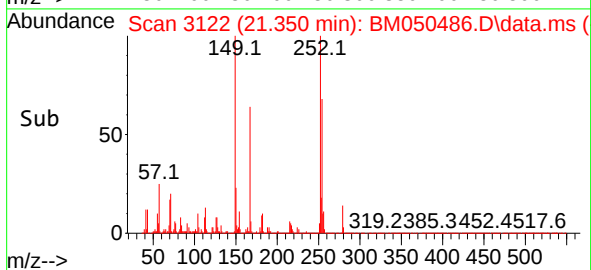
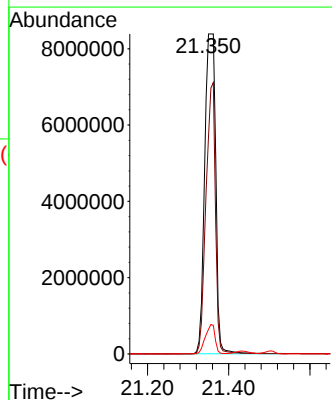
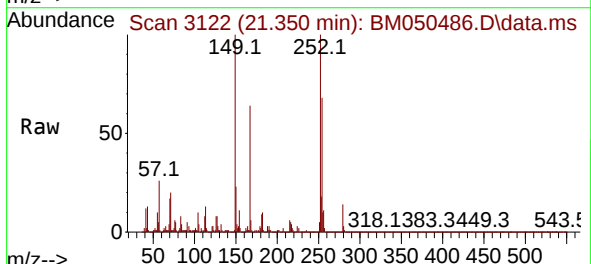
Instrument :
BNA_M
ClientSampleId :

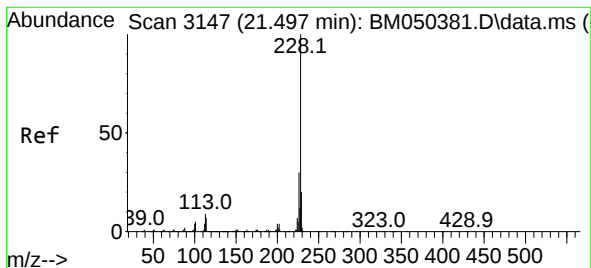
Tgt Ion:228 Resp: 2455282
Ion Ratio Lower Upper
228 100
226 35.3 21.8 32.8#
229 23.3 16.0 24.0



#82
3,3'-Dichlorobenzidine
Concen: 44.026 ng
RT: 21.350 min Scan# 3122
Delta R.T. 0.018 min
Lab File: BM050486.D
Acq: 22 Jul 2025 15:34

Tgt Ion:252 Resp:15851021
Ion Ratio Lower Upper
252 100
254 68.0 51.7 77.5
126 7.7 7.3 10.9





#83

Chrysene

Concen: 2.438 ng

RT: 21.486 min Scan# 3147

Delta R.T. 0.006 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

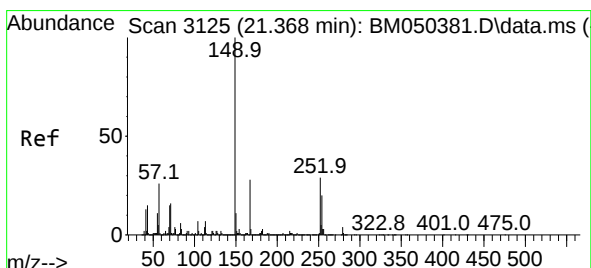
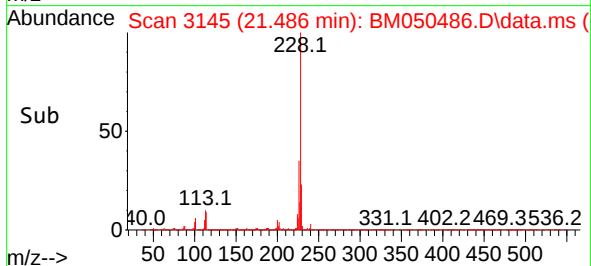
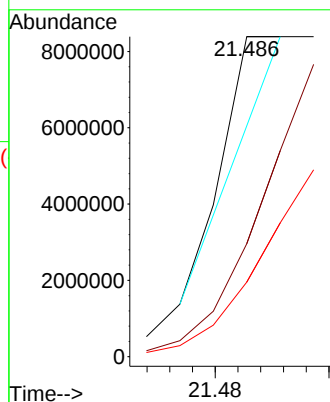
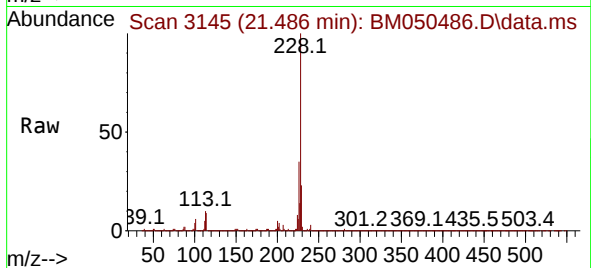
Instrument :

BNA_M

ClientSampleId :

Tgt Ion:228 Resp: 2455282

Ion	Ratio	Lower	Upper
228	100		
226	35.3	24.2	36.4
229	23.3	15.8	23.6



#84

Bis(2-ethylhexyl)phthalate

Concen: 30.796 ng

RT: 21.339 min Scan# 3120

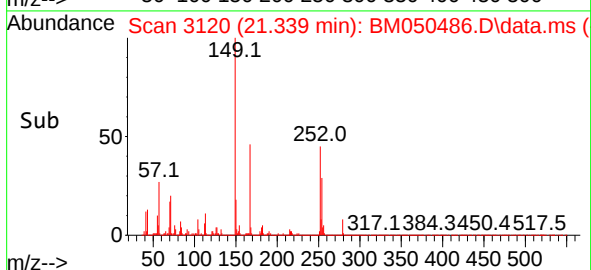
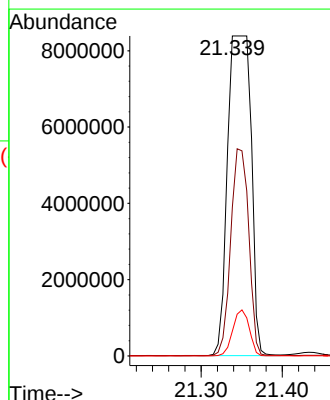
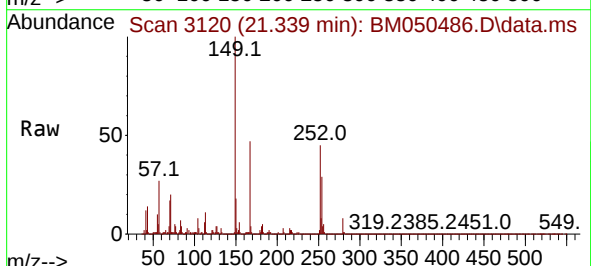
Delta R.T. -0.000 min

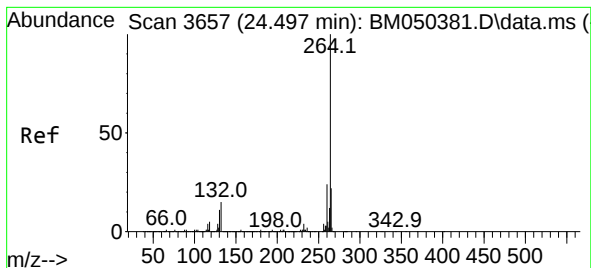
Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

Tgt Ion:149 Resp:16916482

Ion	Ratio	Lower	Upper
149	100		
167	46.5	22.7	34.1#
279	7.7	3.5	5.3#





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.491 min Scan# 3

Delta R.T. 0.035 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

Instrument :

BNA_M

ClientSampleId :

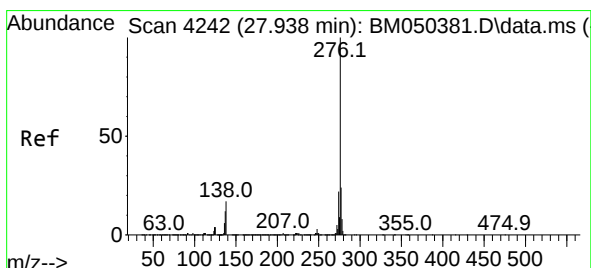
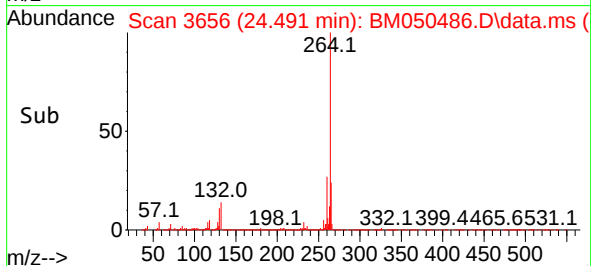
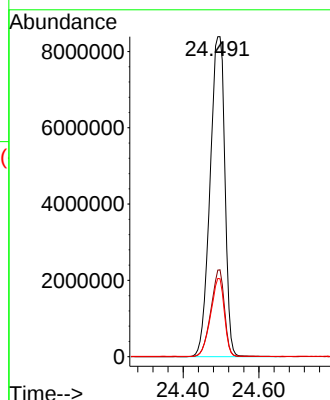
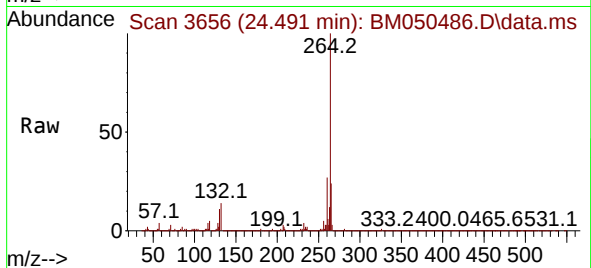
Tgt Ion:264 Resp:22652529

Ion Ratio Lower Upper

264 100

260 27.1 19.2 28.8

265 24.4 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 42.048 ng

RT: 27.979 min Scan# 4249

Delta R.T. 0.100 min

Lab File: BM050486.D

Acq: 22 Jul 2025 15:34

Tgt Ion:276 Resp:67721342

Ion Ratio Lower Upper

276 100

138 0.0 17.0 25.6#

277 25.4 20.0 30.0

