

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042125\
 Data File : VY021939.D
 Acq On : 21 Apr 2025 11:37
 Operator : SY/MD
 Sample : Q1840-01
 Misc : 5.20g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OK-04-04182025RE

Quant Time: Apr 22 02:43:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

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

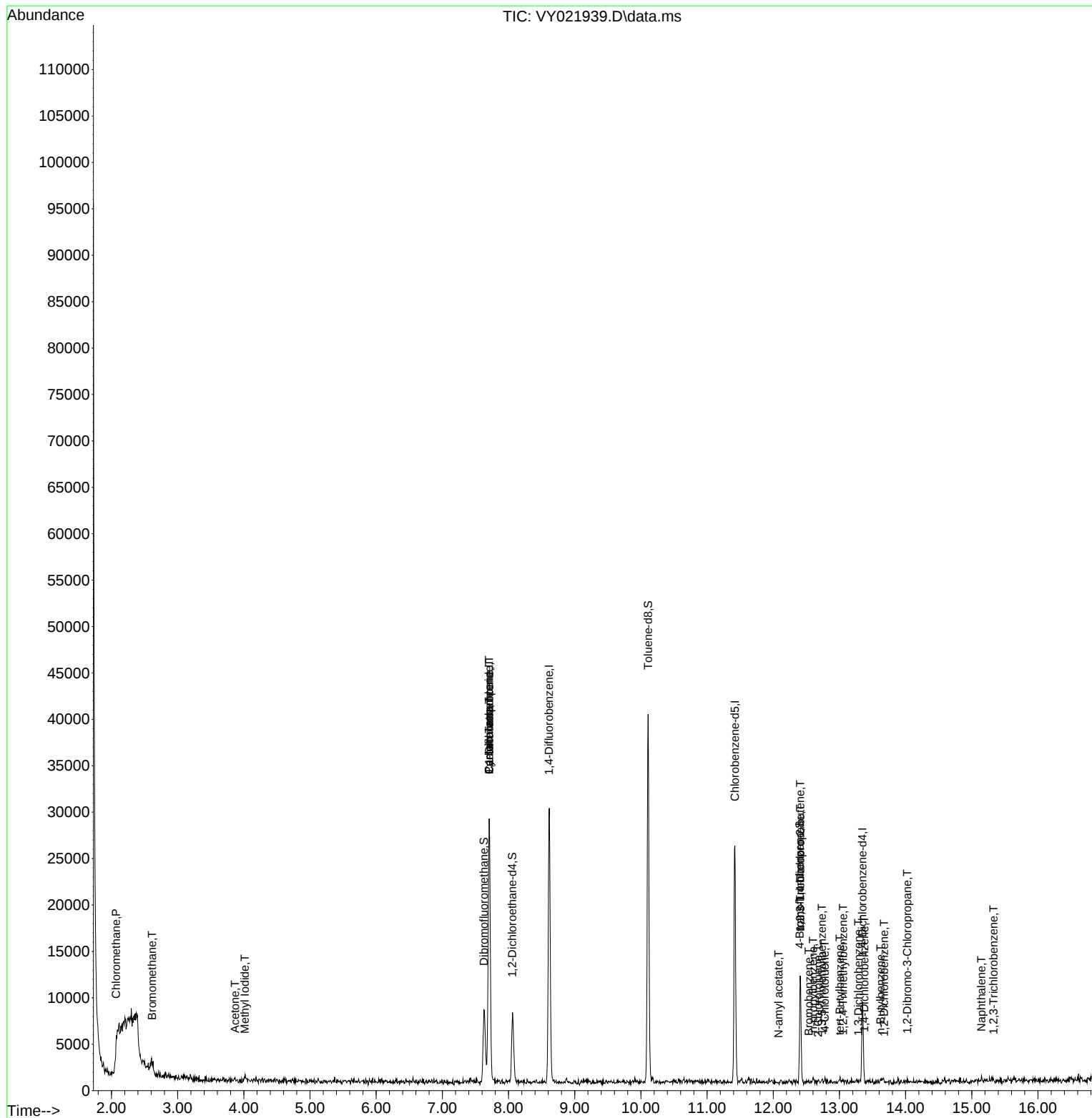
Internal Standards						
1) Pentafluorobenzene	7.707	168	21284	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	24974	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	14125	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	2439	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	5765	24.999	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	50.000%
35) Dibromofluoromethane	7.628	113	5629	34.746	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	69.500%
50) Toluene-d8	10.109	98	26043	42.257	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	84.520%
62) 4-Bromofluorobenzene	12.402	95	3421	16.411	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	32.820%
Target Compounds						
					Qvalue	
3) Chloromethane	2.068	50	585	1.886	ug/l #	86
5) Bromomethane	2.611	94	579	2.420	ug/l	95
10) Methyl Iodide	4.013	142	755	2.904	ug/l #	64
16) Acetone	3.866	43	236	5.000	ug/l #	89
20) Methylene Chloride	4.604	84	54	Below Cal	#	5
31) Cyclohexane	7.707	56	545	1.339	ug/l #	39
36) 1,1-Dichloropropene	7.707	75	1613	6.537	ug/l #	51
38) Carbon Tetrachloride	7.707	117	2342	8.287	ug/l #	18
74) N-amyl acetate	12.078	43	100	2.352	ug/l #	42
76) 1,2,3-Trichloropropane	12.408	75	1724	71.308	ug/l #	100
77) Bromobenzene	12.536	156	58	1.333	ug/l #	44
78) n-propylbenzene	12.603	91	299	1.373	ug/l #	53
79) 2-Chlorotoluene	12.676	91	142	1.123	ug/l	87
80) 1,3,5-Trimethylbenzene	12.737	105	200	1.351	ug/l #	28
81) trans-1,4-Dichloro-2-b...	12.408	75	1724	164.306	ug/l #	11
82) 4-Chlorotoluene	12.779	91	281	2.131	ug/l	72
83) tert-Butylbenzene	13.005	119	195	1.479	ug/l #	47
84) 1,2,4-Trimethylbenzene	13.054	105	181	1.237	ug/l	69
87) 1,3-Dichlorobenzene	13.285	146	147	1.715	ug/l #	25
88) 1,4-Dichlorobenzene	13.377	146	230	2.717	ug/l #	33
89) n-Butylbenzene	13.621	91	167	1.134	ug/l #	33
91) 1,2-Dichlorobenzene	13.676	146	101	1.354	ug/l #	44
92) 1,2-Dibromo-3-Chloropr...	14.023	75	22	4.358	ug/l #	1
95) Naphthalene	15.145	128	383	5.712	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.328	180	97	2.812	ug/l #	75

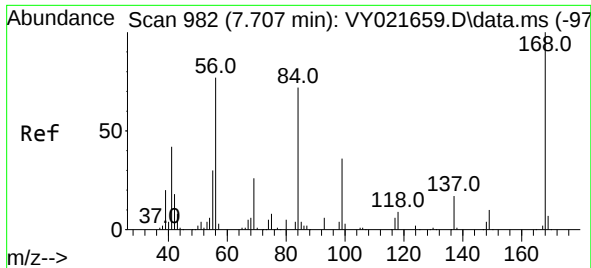
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.20g/5.0mL/MSVOA_Y/SOIL/B
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Instrument :
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ClientSampleId :
OK-04-04182025RE

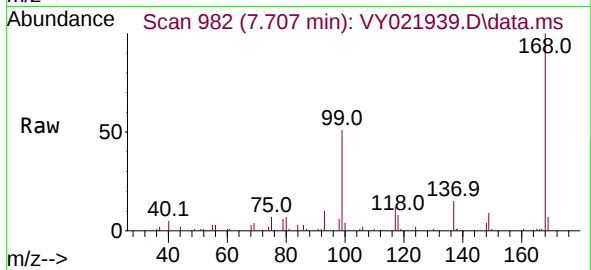
Quant Time: Apr 22 02:43:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
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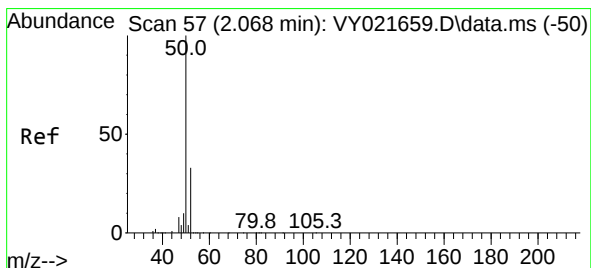
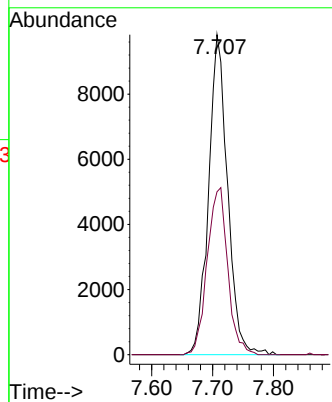
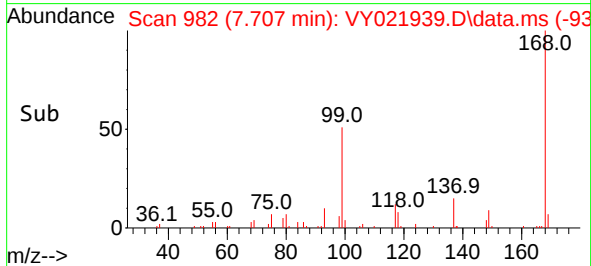


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

Instrument :
MSVOA_Y
ClientSampleId :
OK-04-04182025RE

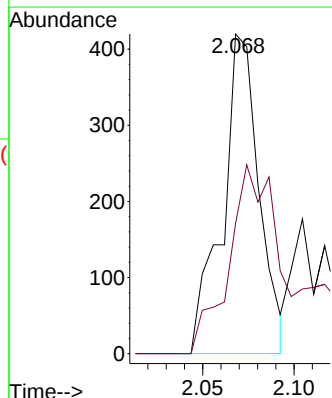
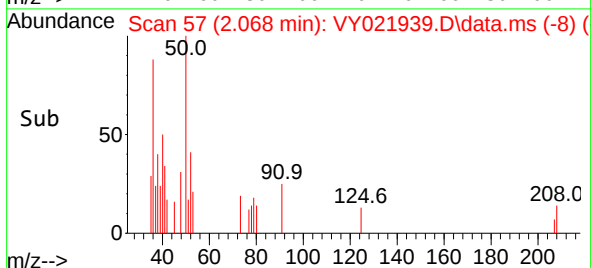
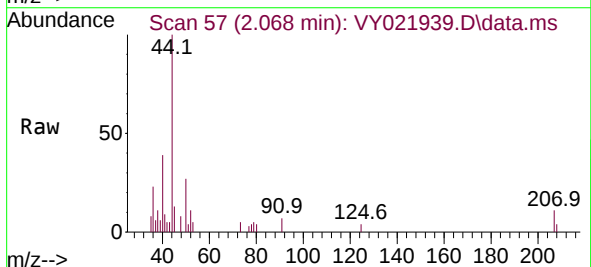


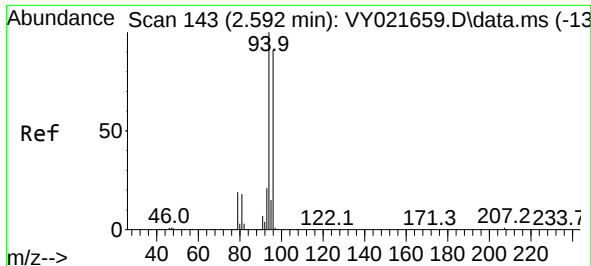
Tgt Ion:168 Resp: 21284
Ion Ratio Lower Upper
168 100
99 50.9 46.7 70.1



#3
Chloromethane
Concen: 1.886 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

Tgt Ion: 50 Resp: 585
Ion Ratio Lower Upper
50 100
52 40.7 26.3 39.5#

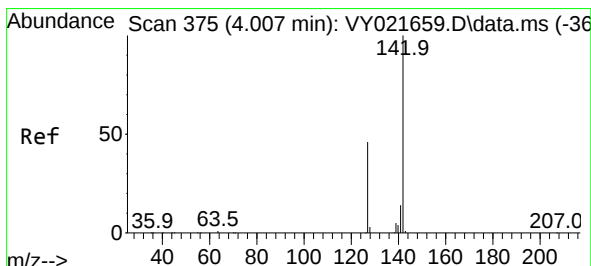
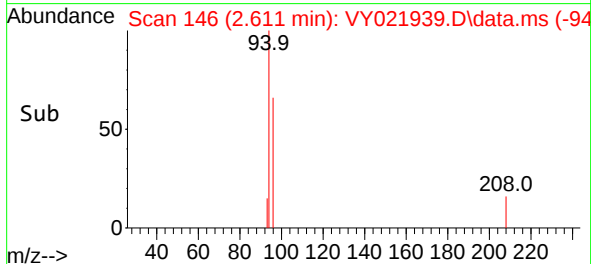
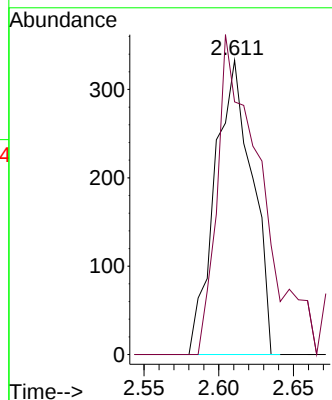
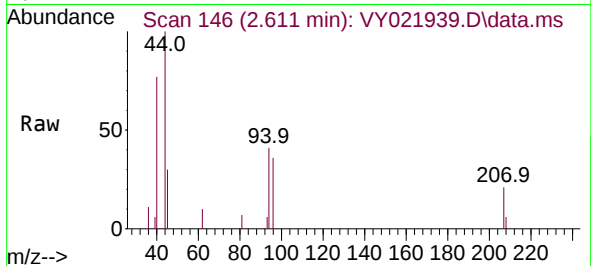




#5
Bromomethane
Concen: 2.420 ug/l
RT: 2.611 min Scan# 146
Delta R.T. 0.018 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

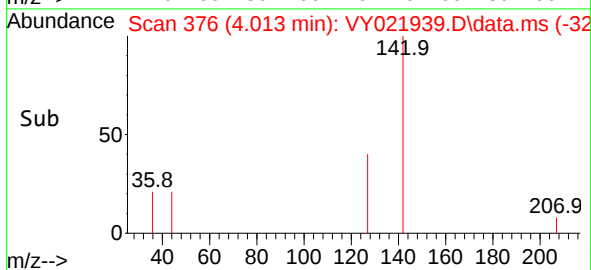
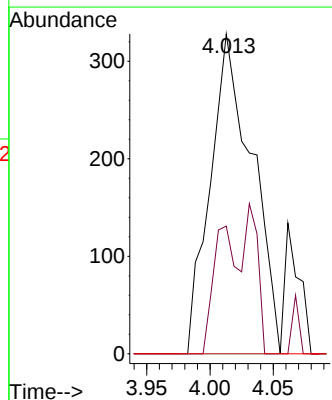
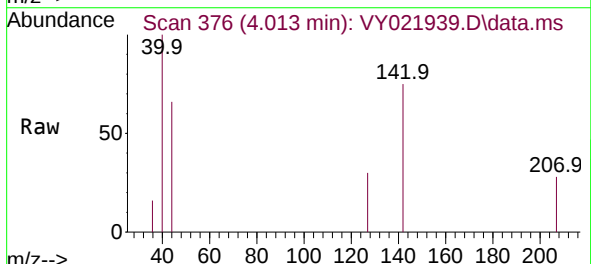
Instrument :
MSVOA_Y
ClientSampleId :
OK-04-04182025RE

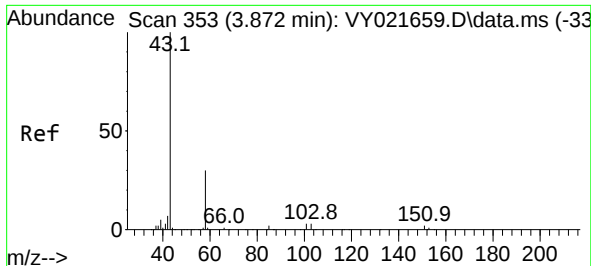
Tgt Ion: 94 Resp: 579
Ion Ratio Lower Upper
94 100
96 85.9 72.8 109.2



#10
Methyl Iodide
Concen: 2.904 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

Tgt Ion: 142 Resp: 755
Ion Ratio Lower Upper
142 100
127 23.8 38.7 58.1#
141 0.0 11.5 17.3#

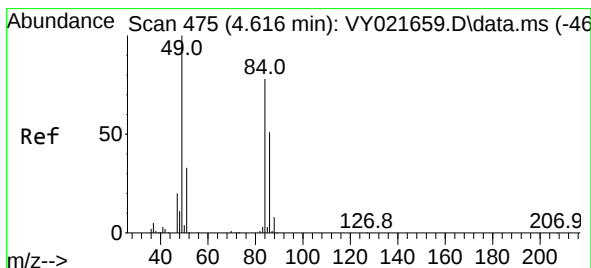
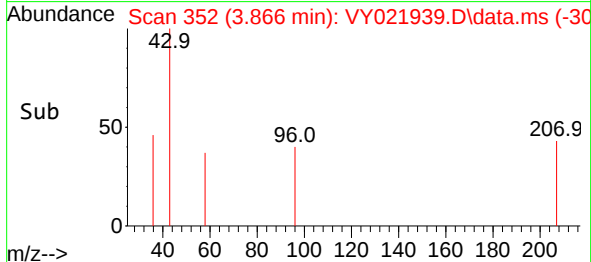
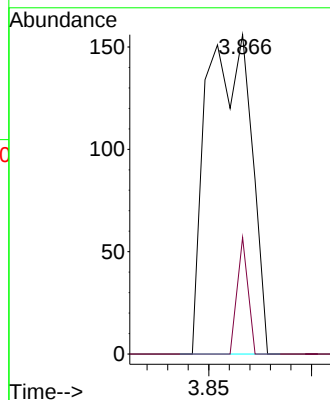
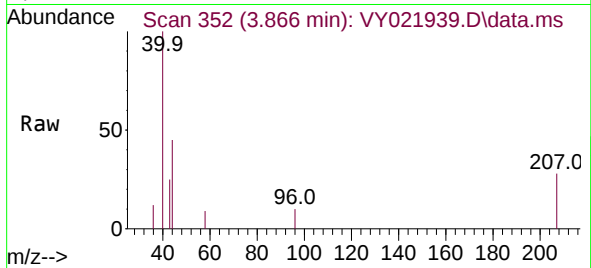




#16
Acetone
Concen: 5.000 ug/l
RT: 3.866 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

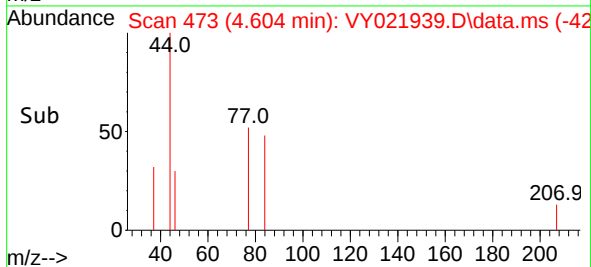
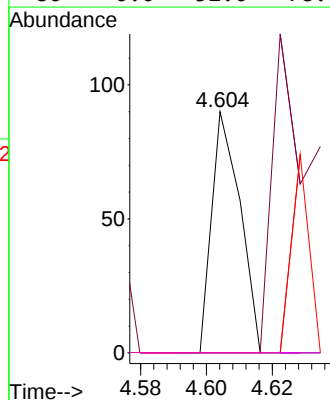
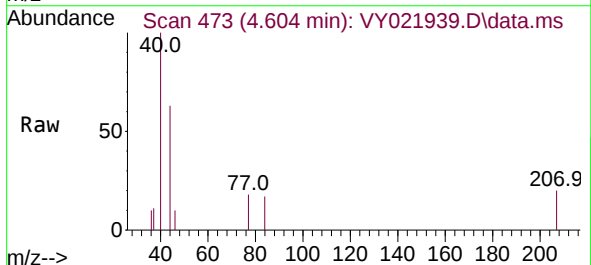
Instrument :
MSVOA_Y
ClientSampleId :
OK-04-04182025RE

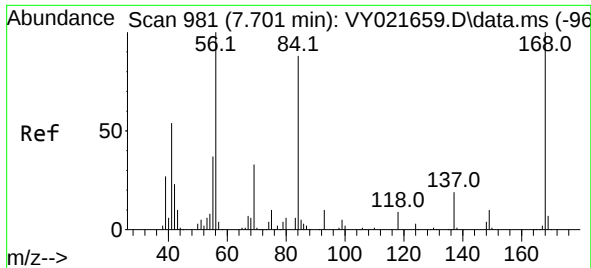
Tgt Ion: 43 Resp: 236
Ion Ratio Lower Upper
43 100
58 36.5 24.2 36.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.604 min Scan# 473
Delta R.T. -0.012 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

Tgt Ion: 84 Resp: 54
Ion Ratio Lower Upper
84 100
49 0.0 102.8 154.2#
51 0.0 33.5 50.3#
86 0.0 52.0 78.0#

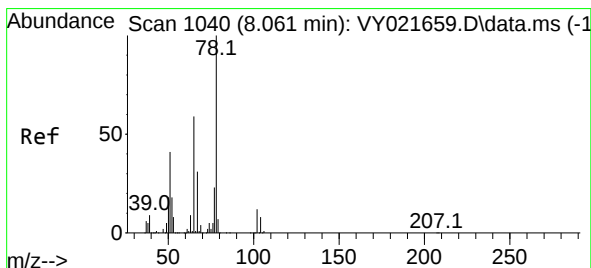
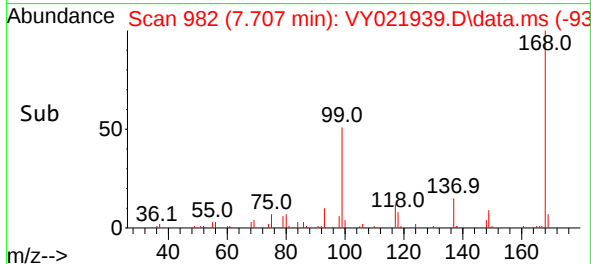
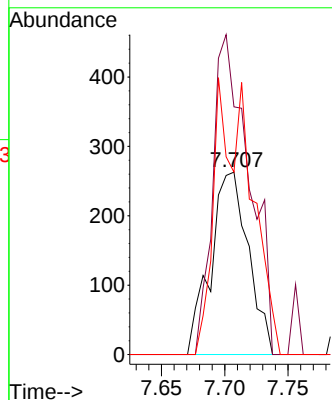
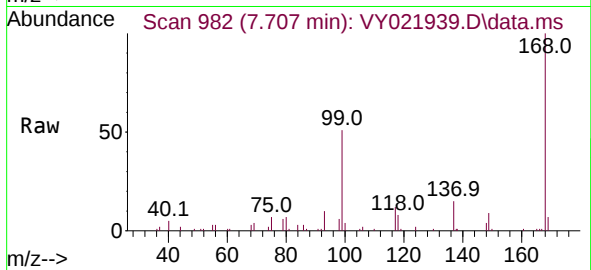




#31
Cyclohexane
Concen: 1.339 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

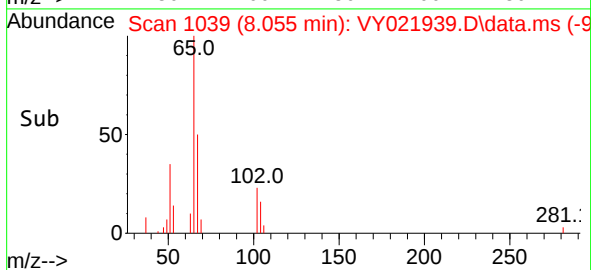
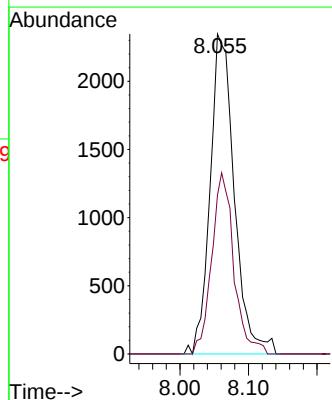
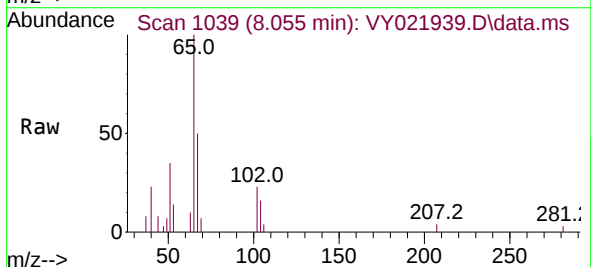
Instrument :
MSVOA_Y
ClientSampleId :
OK-04-04182025RE

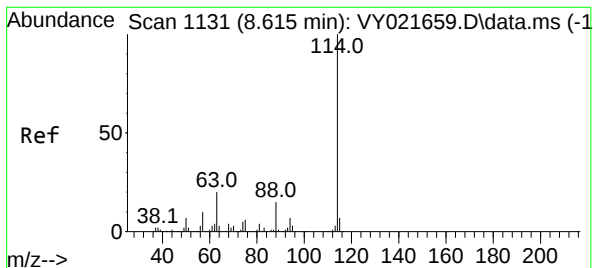
Tgt Ion: 56 Resp: 545
Ion Ratio Lower Upper
56 100
69 135.7 26.6 40.0#
84 100.0 69.0 103.4



#33
1,2-Dichloroethane-d4
Concen: 24.999 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

Tgt Ion: 65 Resp: 5765
Ion Ratio Lower Upper
65 100
67 51.7 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021939.D

Acq: 21 Apr 2025 11:37

Instrument :

MSVOA_Y

ClientSampleId :

OK-04-04182025RE

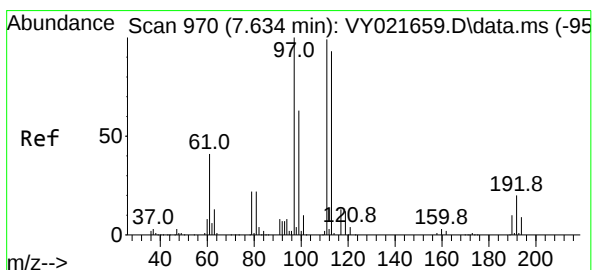
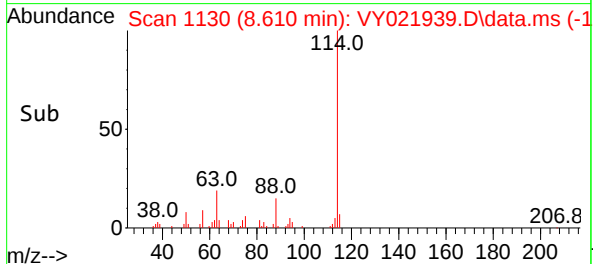
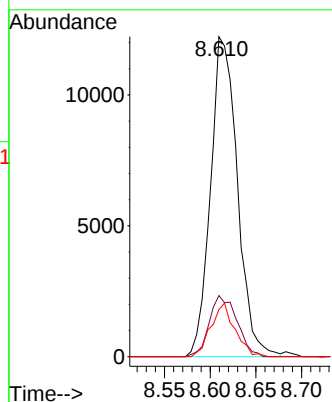
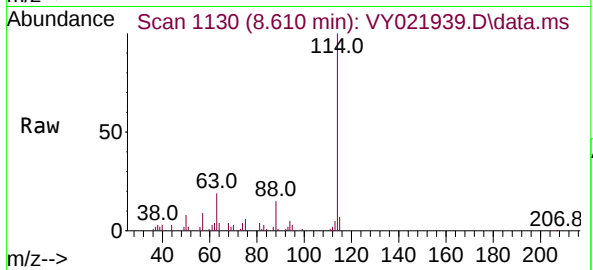
Tgt Ion:114 Resp: 24974

Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.2

88 14.7 0.0 29.8



#35

Dibromofluoromethane

Concen: 34.746 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.006 min

Lab File: VY021939.D

Acq: 21 Apr 2025 11:37

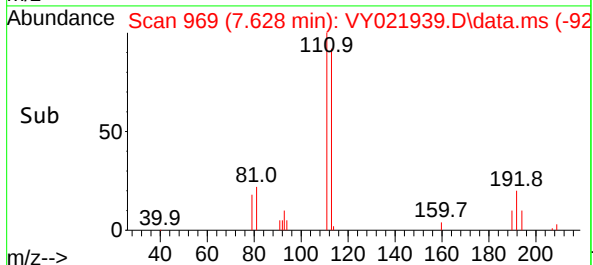
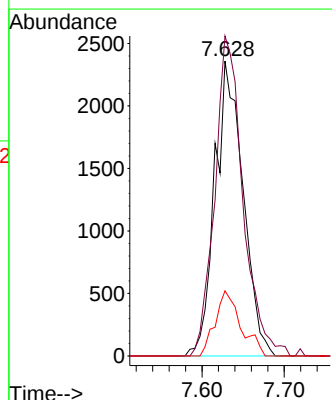
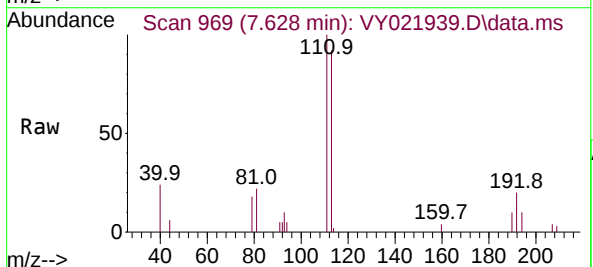
Tgt Ion:113 Resp: 5629

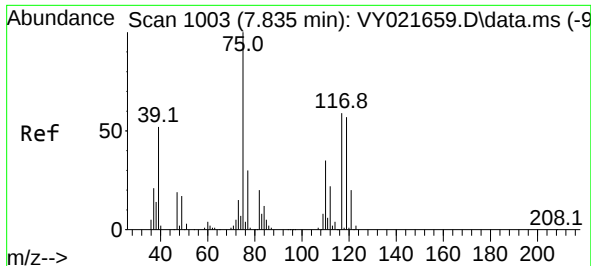
Ion Ratio Lower Upper

113 100

111 108.2 82.6 123.8

192 19.9 16.2 24.4

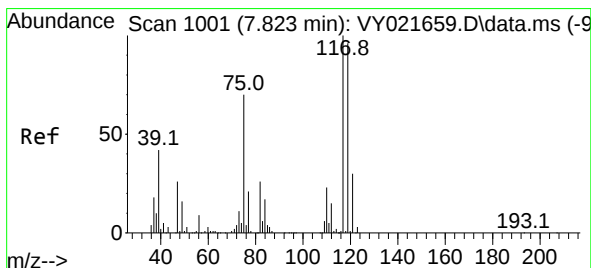
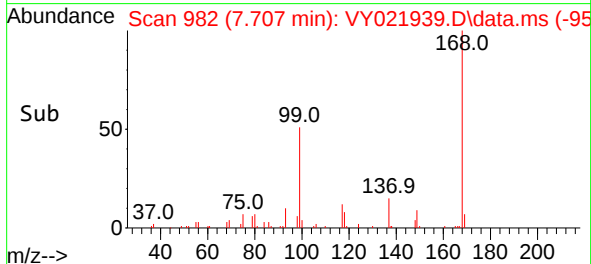
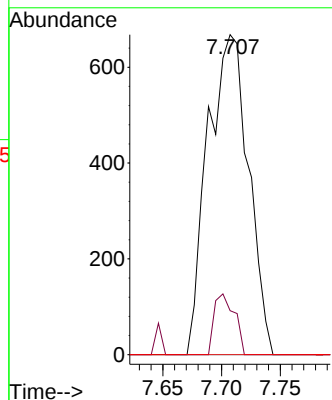
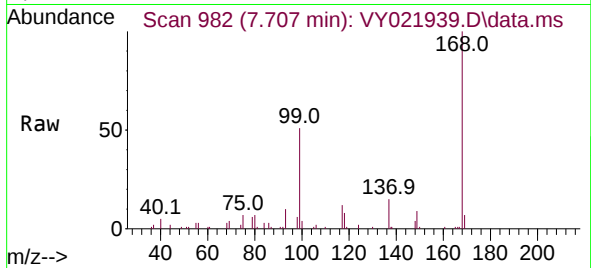




#36
1,1-Dichloropropene
Concen: 6.537 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

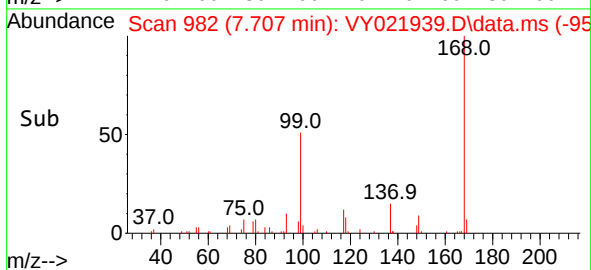
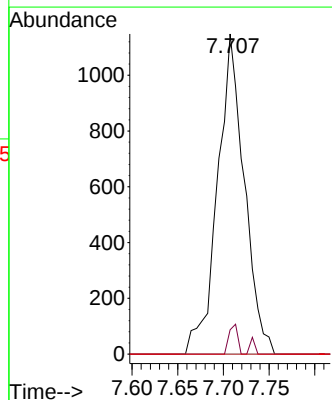
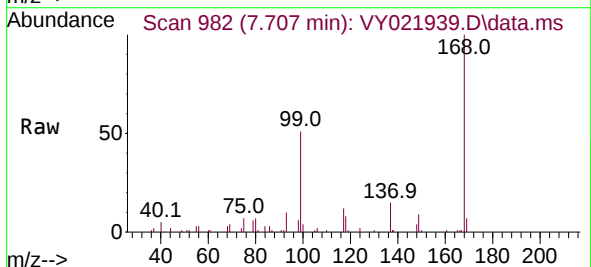
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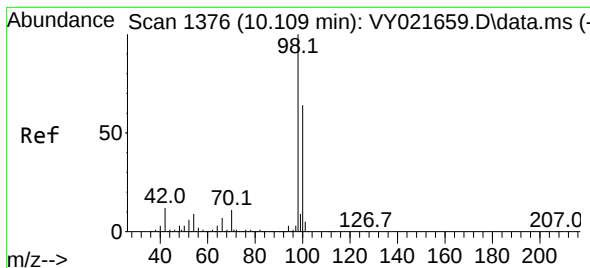
Tgt Ion: 75 Resp: 1613
Ion Ratio Lower Upper
75 100
110 9.5 17.0 50.9#
77 0.0 24.8 37.2#



#38
Carbon Tetrachloride
Concen: 8.287 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.116 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

Tgt Ion: 117 Resp: 2342
Ion Ratio Lower Upper
117 100
119 7.6 76.2 114.4#
121 0.0 24.2 36.4#





#50

Toluene-d8

Concen: 42.257 ug/l

RT: 10.109 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021939.D

Acq: 21 Apr 2025 11:37

Instrument :

MSVOA_Y

ClientSampleId :

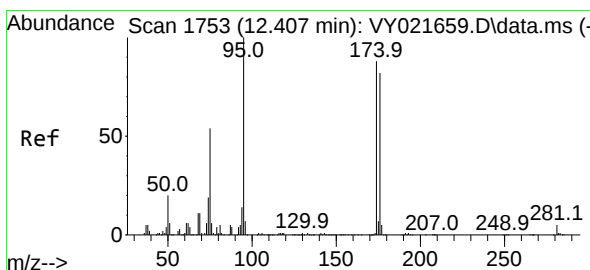
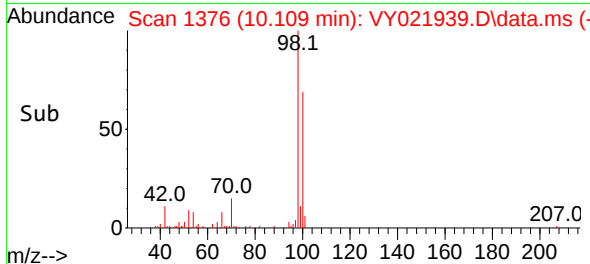
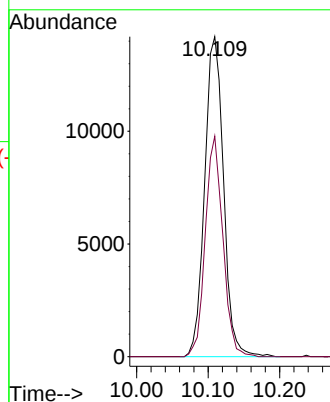
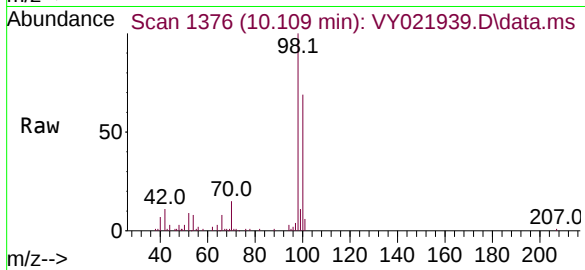
OK-04-04182025RE

Tgt Ion: 98 Resp: 26043

Ion Ratio Lower Upper

98 100

100 64.3 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 16.411 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY021939.D

Acq: 21 Apr 2025 11:37

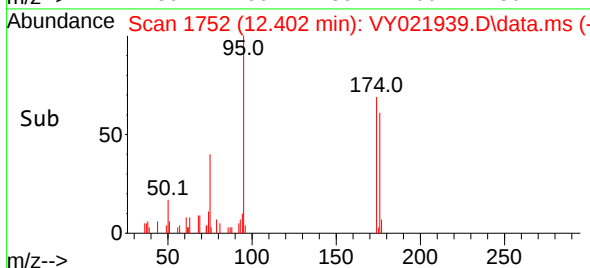
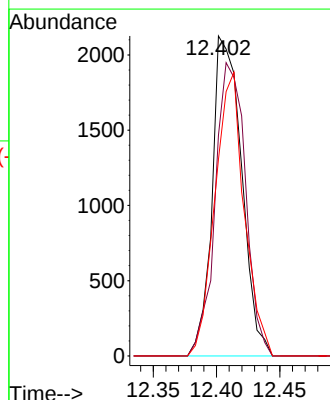
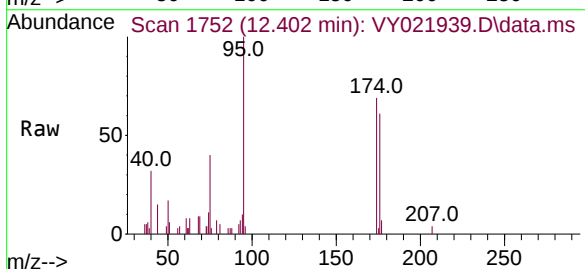
Tgt Ion: 95 Resp: 3421

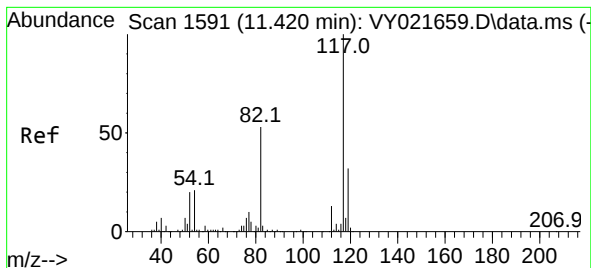
Ion Ratio Lower Upper

95 100

174 94.4 0.0 170.8

176 88.7 0.0 162.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021939.D

Acq: 21 Apr 2025 11:37

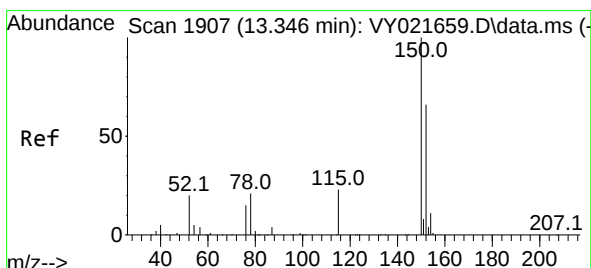
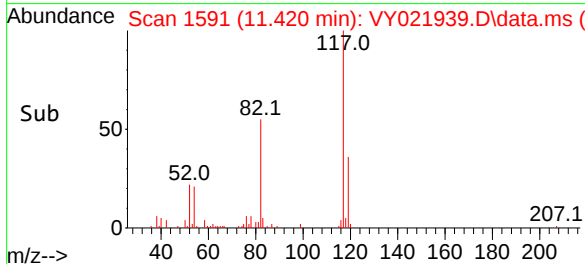
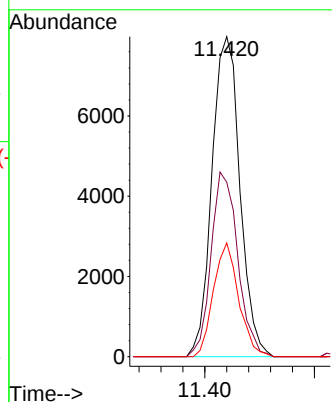
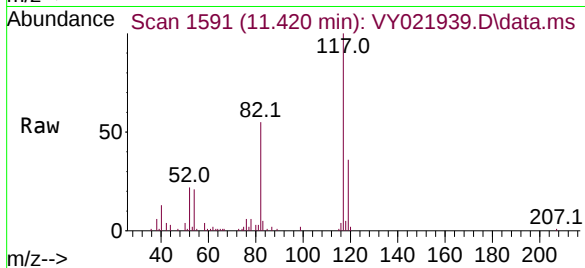
Instrument :

MSVOA_Y

ClientSampleId :

OK-04-04182025RE

Tgt Ion:117	Resp:	14125
Ion	Ratio	Lower Upper
117	100	
82	54.5	42.8 64.2
119	35.5	25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

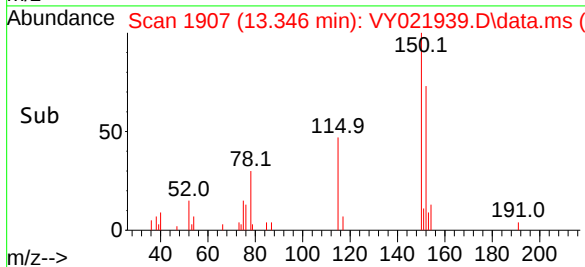
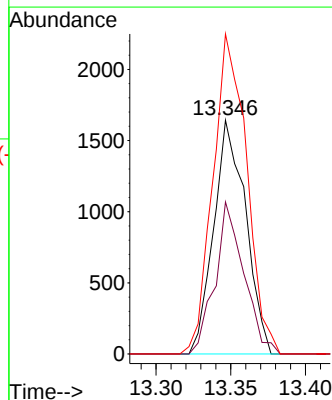
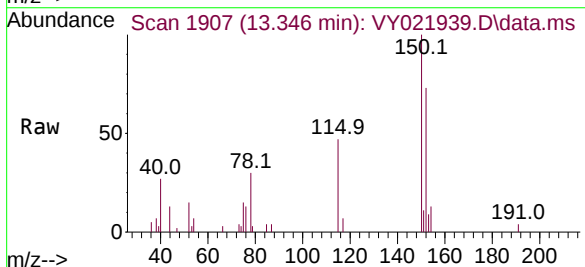
RT: 13.346 min Scan# 1907

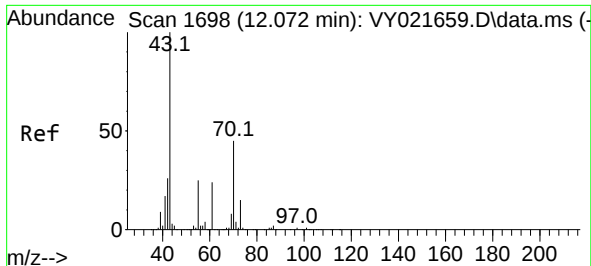
Delta R.T. 0.000 min

Lab File: VY021939.D

Acq: 21 Apr 2025 11:37

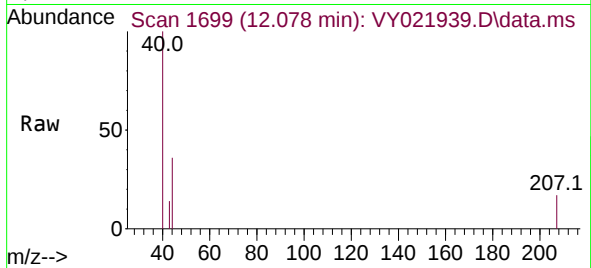
Tgt Ion:152	Resp:	2439
Ion	Ratio	Lower Upper
152	100	
115	58.7	28.8 86.5
150	144.5	0.0 348.4



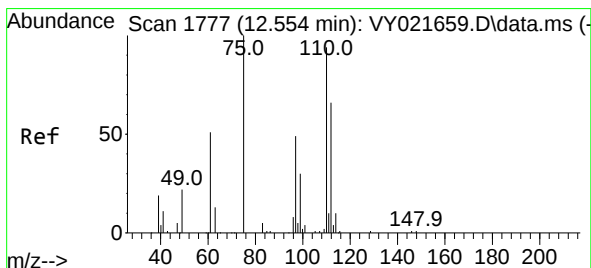
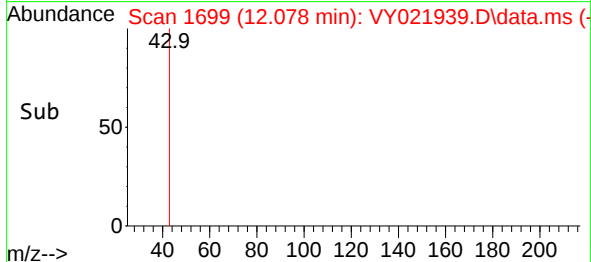
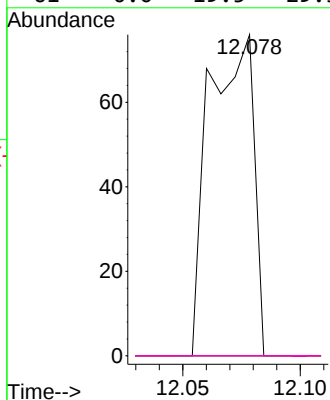


#74
N-amy1 acetate
Concen: 2.352 ug/l
RT: 12.078 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

Instrument :
MSVOA_Y
ClientSampleId :
OK-04-04182025RE

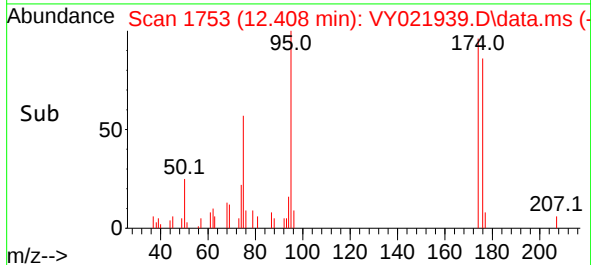
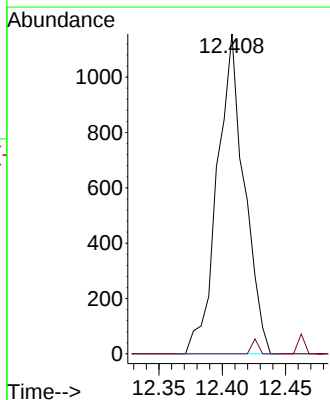
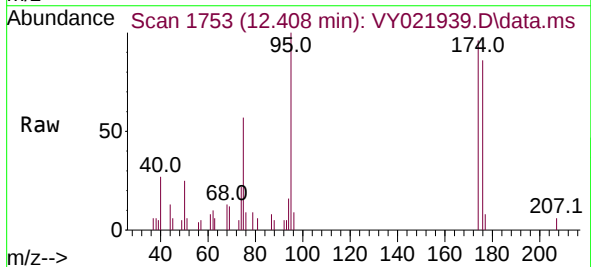


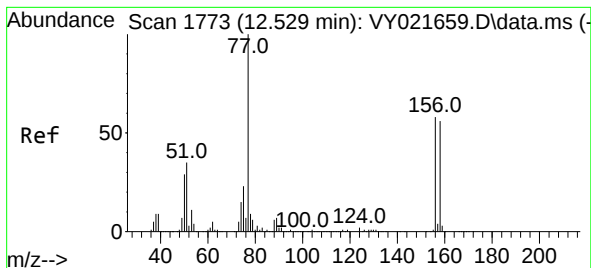
Tgt Ion: 43 Resp: 100
Ion Ratio Lower Upper
43 100
70 0.0 34.7 52.1#
55 0.0 21.2 31.8#
61 0.0 19.5 29.3#



#76
1,2,3-Trichloropropane
Concen: 71.308 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

Tgt Ion: 75 Resp: 1724
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#77

Bromobenzene

Concen: 1.333 ug/l

RT: 12.536 min Scan# 1774

Delta R.T. 0.006 min

Lab File: VY021939.D

Acq: 21 Apr 2025 11:37

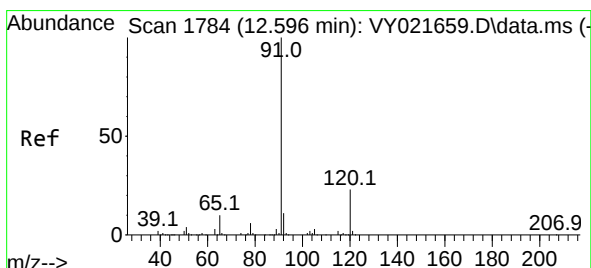
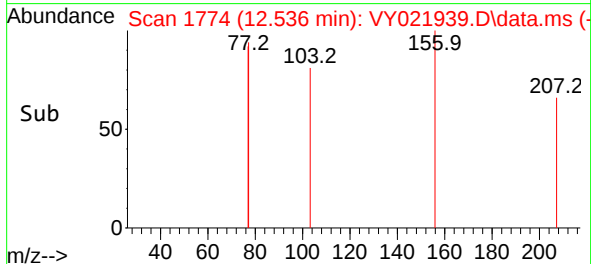
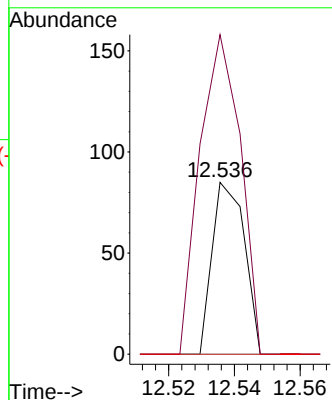
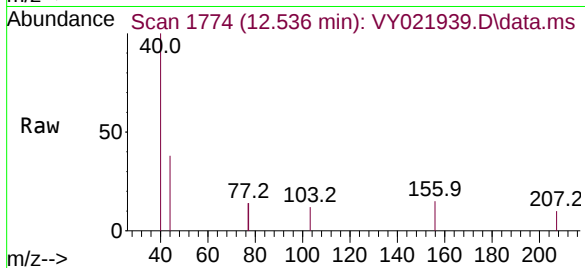
Instrument :

MSVOA_Y

ClientSampleId :

OK-04-04182025RE

Tgt Ion:	156	Resp:	58
Ion	Ratio	Lower	Upper
156	100		
77	234.5	92.8	278.3
158	0.0	48.5	145.6#



#78

n-propylbenzene

Concen: 1.373 ug/l

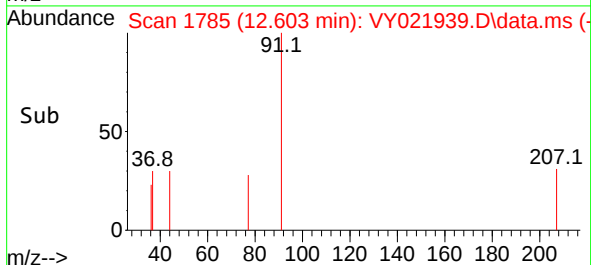
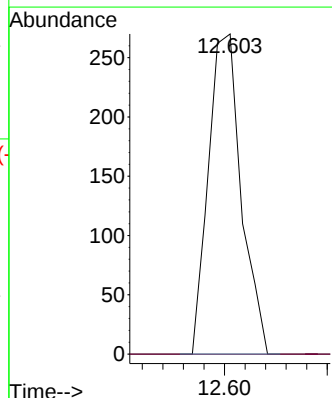
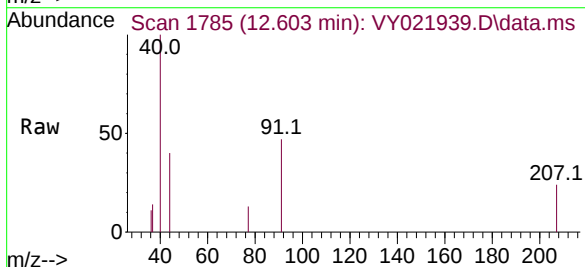
RT: 12.603 min Scan# 1785

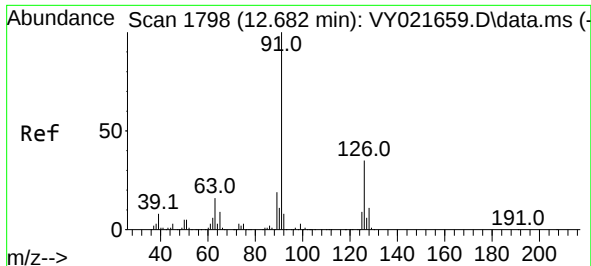
Delta R.T. 0.006 min

Lab File: VY021939.D

Acq: 21 Apr 2025 11:37

Tgt Ion:	91	Resp:	299
Ion	Ratio	Lower	Upper
91	100		
120	0.0	11.3	33.9#

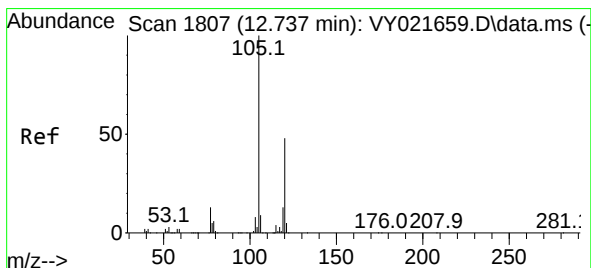
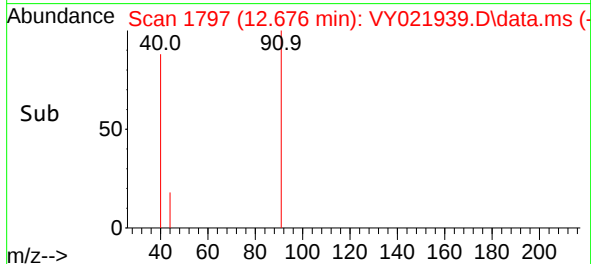
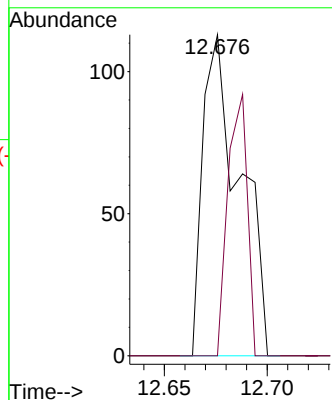
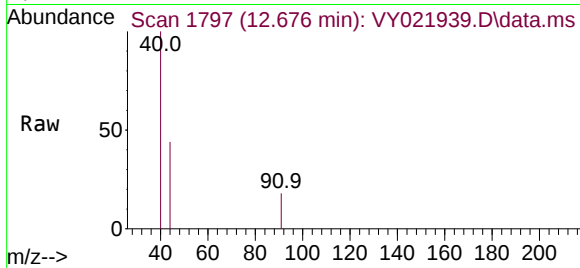




#79
2-Chlorotoluene
Concen: 1.123 ug/l
RT: 12.676 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

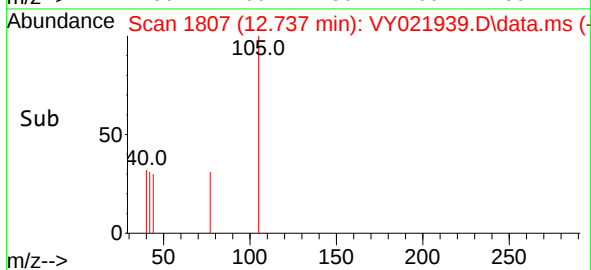
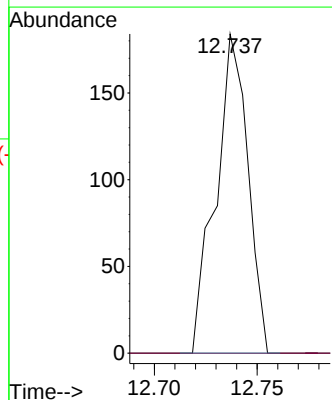
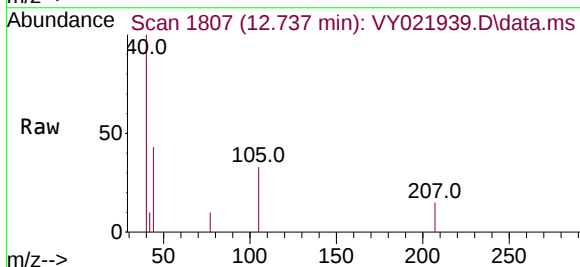
Instrument :
MSVOA_Y
ClientSampleId :
OK-04-04182025RE

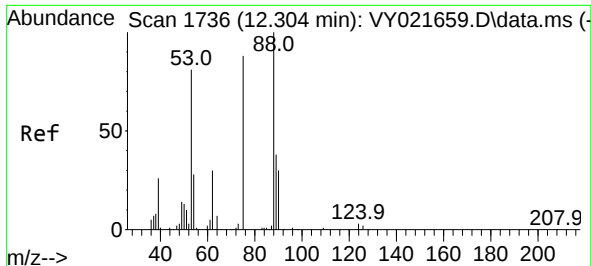
Tgt Ion: 91 Resp: 142
Ion Ratio Lower Upper
91 100
126 42.3 17.3 52.0



#80
1,3,5-Trimethylbenzene
Concen: 1.351 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

Tgt Ion: 105 Resp: 200
Ion Ratio Lower Upper
105 100
120 0.0 24.5 73.5#

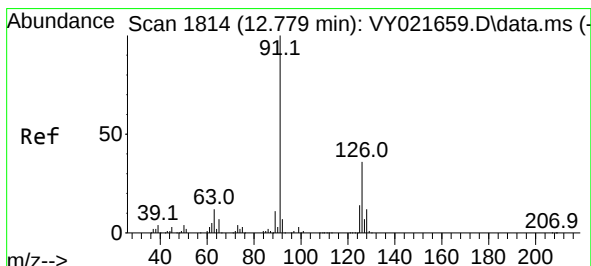
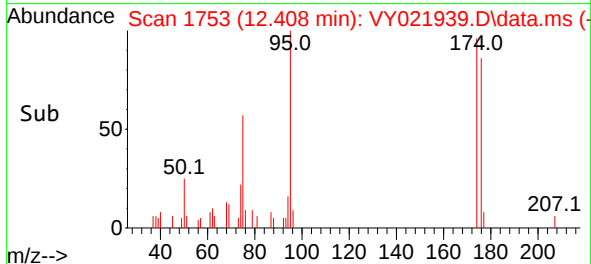
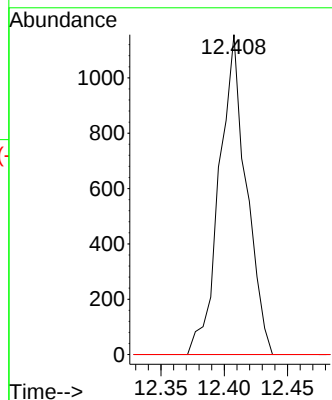
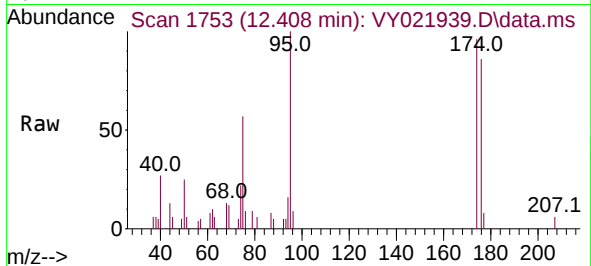




#81
trans-1,4-Dichloro-2-butene
Concen: 164.306 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

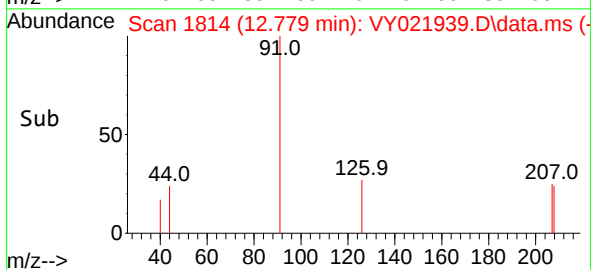
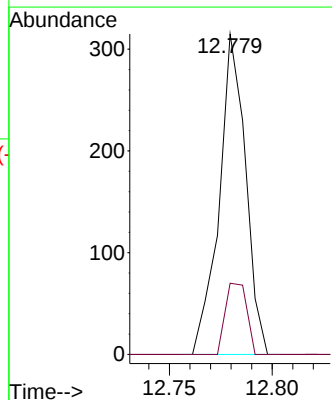
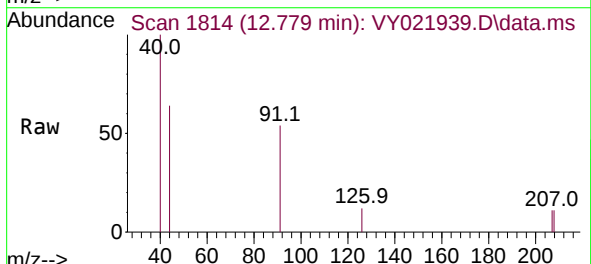
Instrument :
MSVOA_Y
ClientSampleId :
OK-04-04182025RE

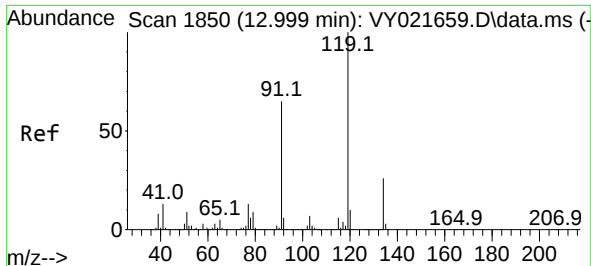
Tgt Ion: 75 Resp: 1724
Ion Ratio Lower Upper
75 100
53 0.0 76.1 114.1#
89 0.0 36.2 54.4#



#82
4-Chlorotoluene
Concen: 2.131 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

Tgt Ion: 91 Resp: 281
Ion Ratio Lower Upper
91 100
126 17.8 17.0 50.9

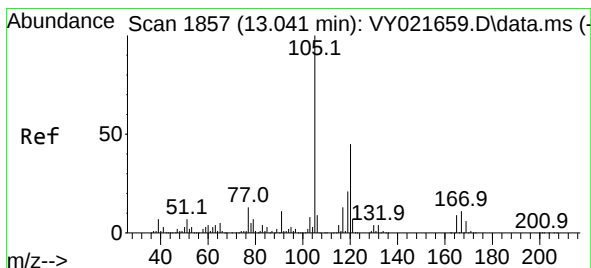
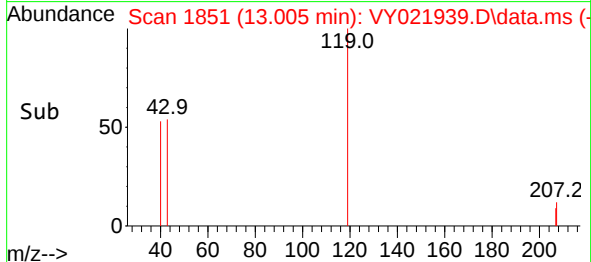
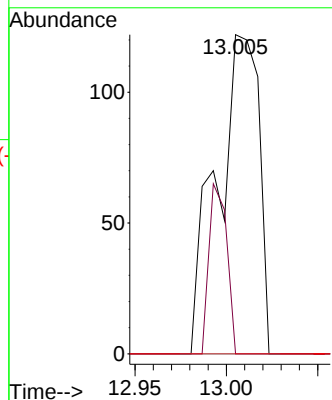
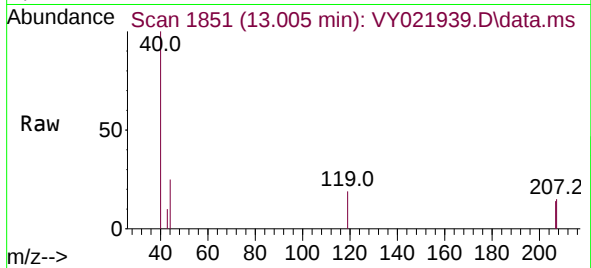




#83
tert-Butylbenzene
Concen: 1.479 ug/l
RT: 13.005 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

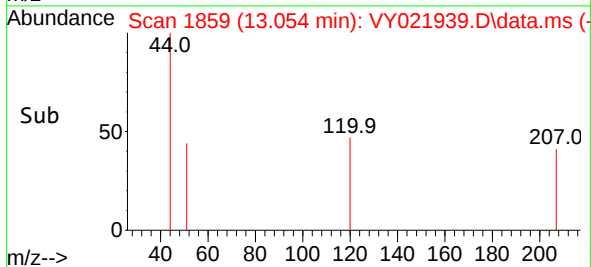
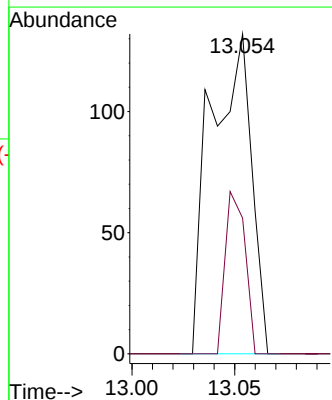
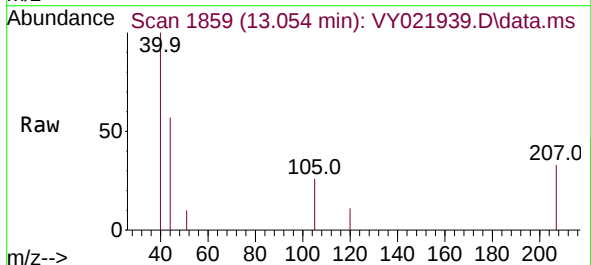
Instrument :
MSVOA_Y
ClientSampleId :
OK-04-04182025RE

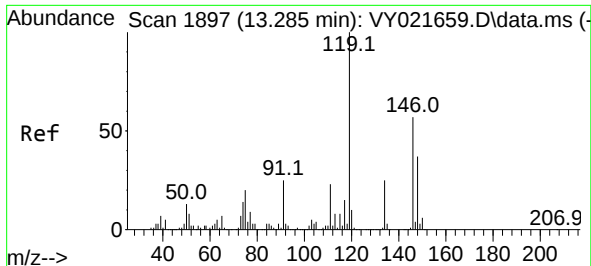
Tgt Ion:119 Resp: 195
Ion Ratio Lower Upper
119 100
91 22.6 32.6 97.7#
134 0.0 13.2 39.6#



#84
1,2,4-Trimethylbenzene
Concen: 1.237 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.012 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

Tgt Ion:105 Resp: 181
Ion Ratio Lower Upper
105 100
120 24.9 22.7 68.1

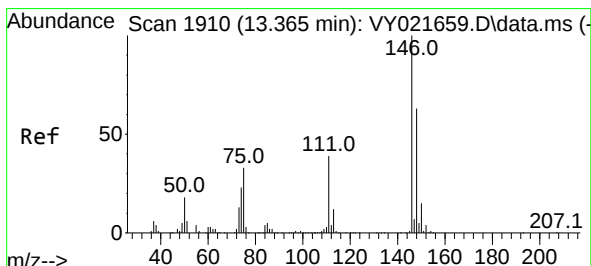
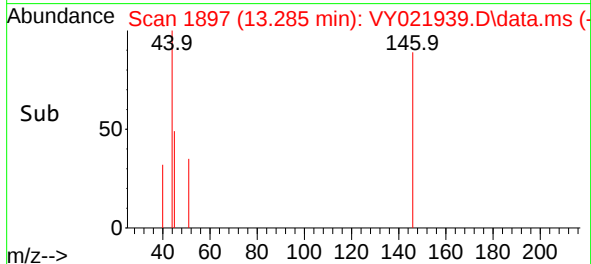
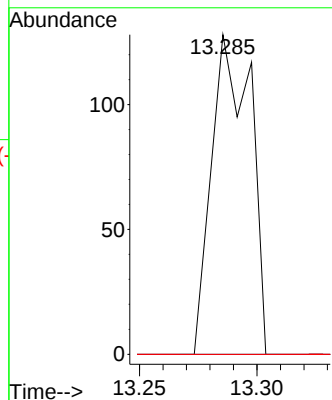
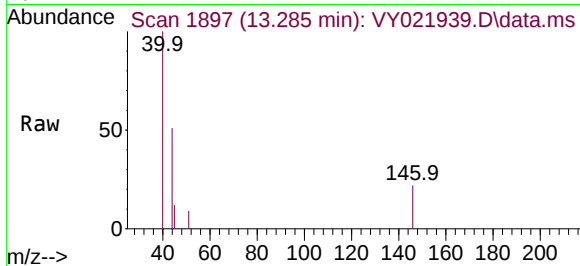




#87
1,3-Dichlorobenzene
Concen: 1.715 ug/l
RT: 13.285 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

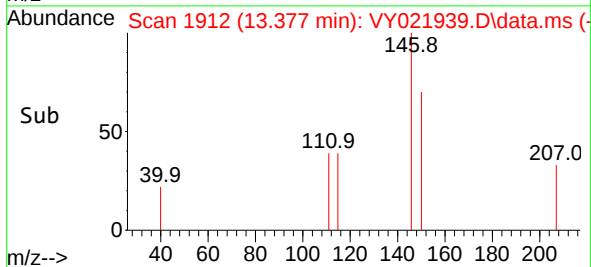
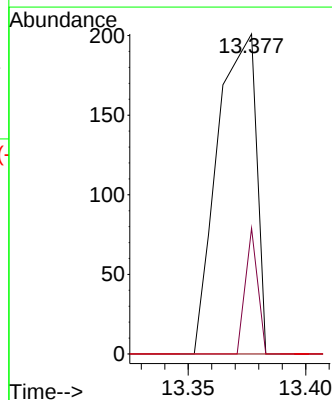
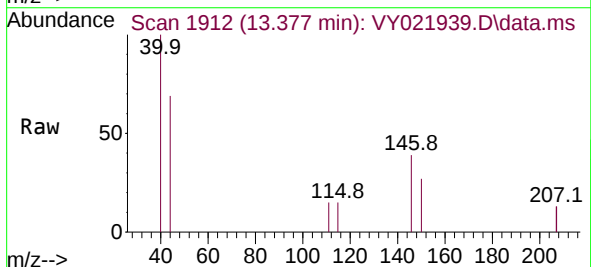
Instrument :
MSVOA_Y
ClientSampleId :
OK-04-04182025RE

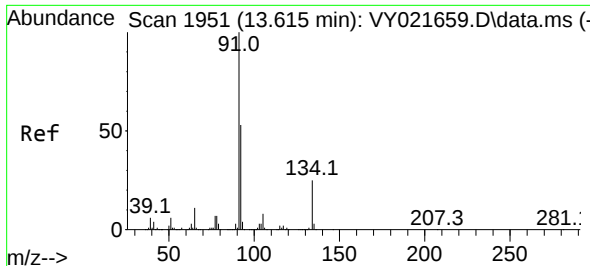
Tgt Ion:146 Resp: 147
Ion Ratio Lower Upper
146 100
111 0.0 20.0 60.0#
148 0.0 31.8 95.4#



#88
1,4-Dichlorobenzene
Concen: 2.717 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.012 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

Tgt Ion:146 Resp: 230
Ion Ratio Lower Upper
146 100
111 12.6 19.1 57.1#
148 0.0 31.5 94.5#

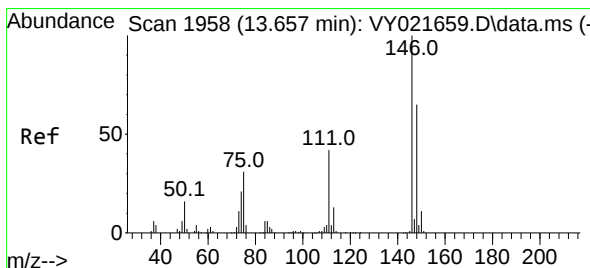
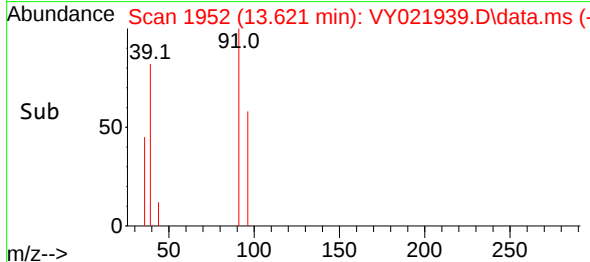
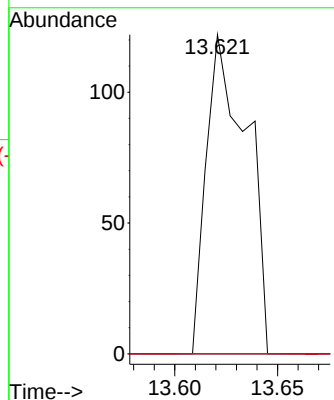
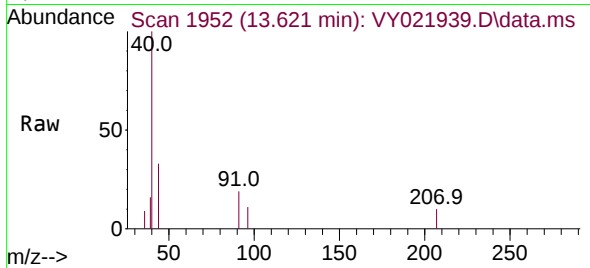




#89
n-Butylbenzene
Concen: 1.134 ug/l
RT: 13.621 min Scan# 1951
Delta R.T. 0.006 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

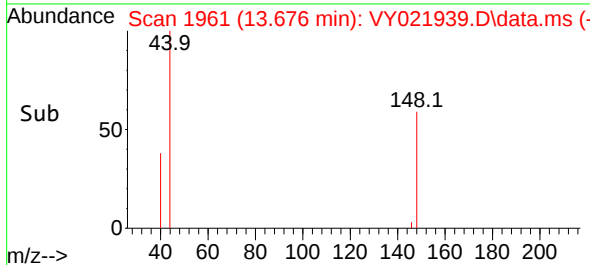
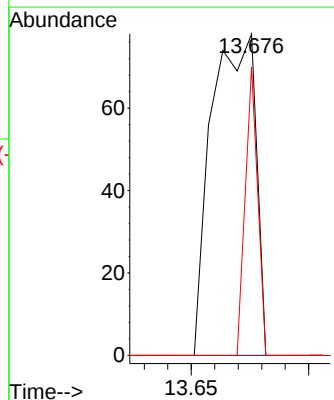
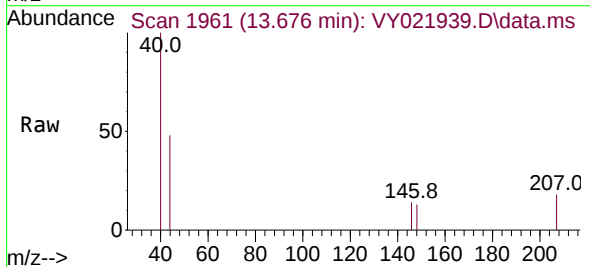
Instrument :
MSVOA_Y
ClientSampleId :
OK-04-04182025RE

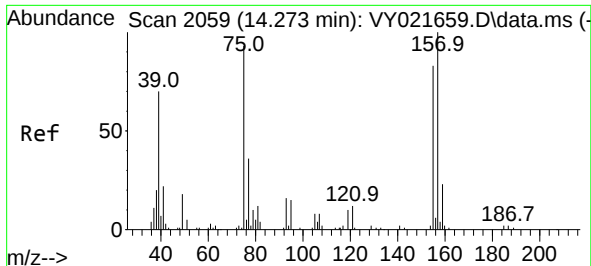
Tgt Ion: 91 Resp: 167
Ion Ratio Lower Upper
91 100
92 0.0 26.4 79.2#
134 0.0 12.8 38.4#



#91
1,2-Dichlorobenzene
Concen: 1.354 ug/l
RT: 13.676 min Scan# 1961
Delta R.T. 0.018 min
Lab File: VY021939.D
Acq: 21 Apr 2025 11:37

Tgt Ion:146 Resp: 101
Ion Ratio Lower Upper
146 100
111 0.0 20.7 62.1#
148 25.7 32.3 96.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.358 ug/l

RT: 14.023 min Scan# 2059

Delta R.T. -0.250 min

Lab File: VY021939.D

Acq: 21 Apr 2025 11:37

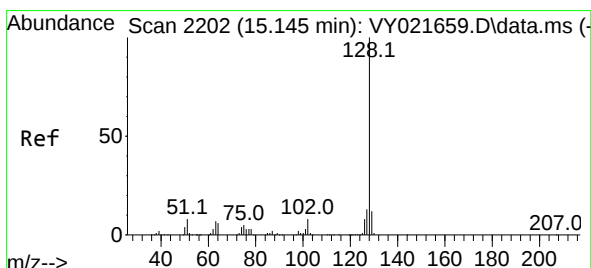
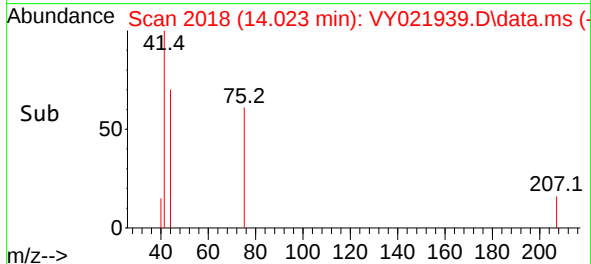
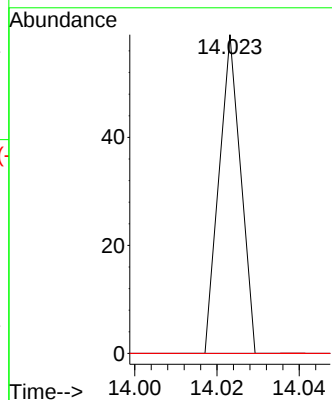
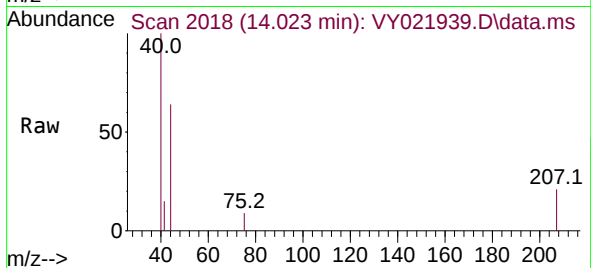
Instrument :

MSVOA_Y

ClientSampleId :

OK-04-04182025RE

Tgt Ion: 75	Resp:	22
Ion Ratio	Lower	Upper
75	100	
155	0.0	43.0 128.8#
157	0.0	54.0 162.0#



#95

Naphthalene

Concen: 5.712 ug/l

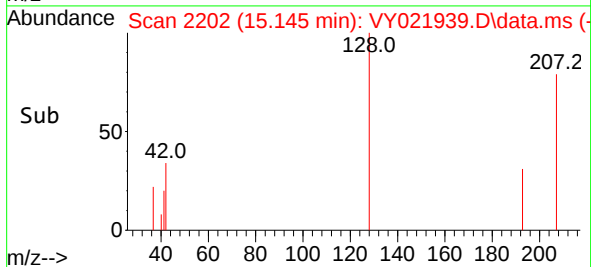
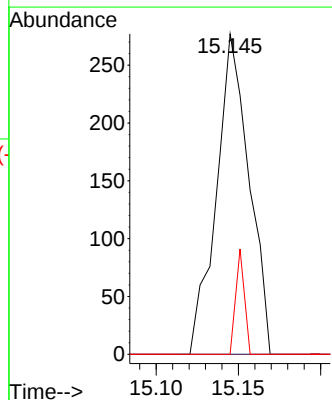
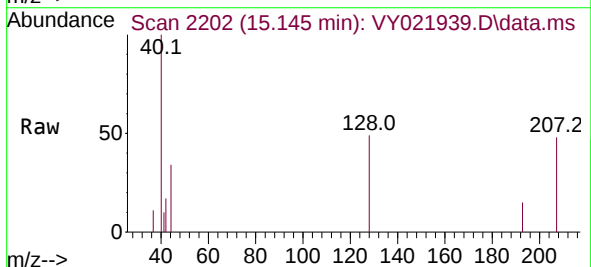
RT: 15.145 min Scan# 2202

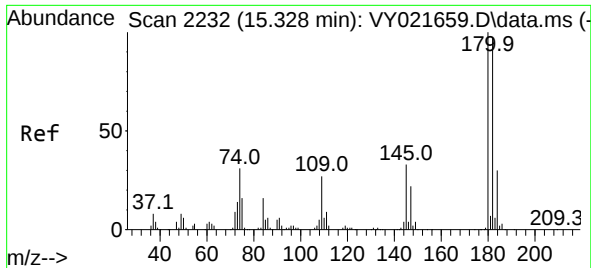
Delta R.T. 0.000 min

Lab File: VY021939.D

Acq: 21 Apr 2025 11:37

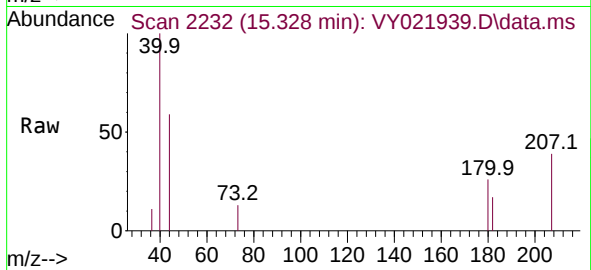
Tgt Ion: 128	Resp:	383
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.8 16.2#
129	8.6	8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.812 ug/l
 RT: 15.328 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY021939.D
 Acq: 21 Apr 2025 11:37

Instrument :
 MSVOA_Y
 ClientSampleId :
 OK-04-04182025RE



Tgt Ion:180 Resp: 97
 Ion Ratio Lower Upper
 180 100
 182 108.2 47.5 142.5
 145 0.0 15.9 47.7#

