

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY063025\
 Data File : VY022889.D
 Acq On : 30 Jun 2025 18:46
 Operator : SY/MD
 Sample : Q2458-03
 Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-68

Quant Time: Jul 01 03:42:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	30558	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	46940	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	36176	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	9691	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	11601	34.015	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	68.020%
35) Dibromofluoromethane	7.628	113	11878	41.609	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	83.220%
50) Toluene-d8	10.109	98	52350	46.214	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	92.420%
62) 4-Bromofluorobenzene	12.408	95	13026	35.771	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	71.540%

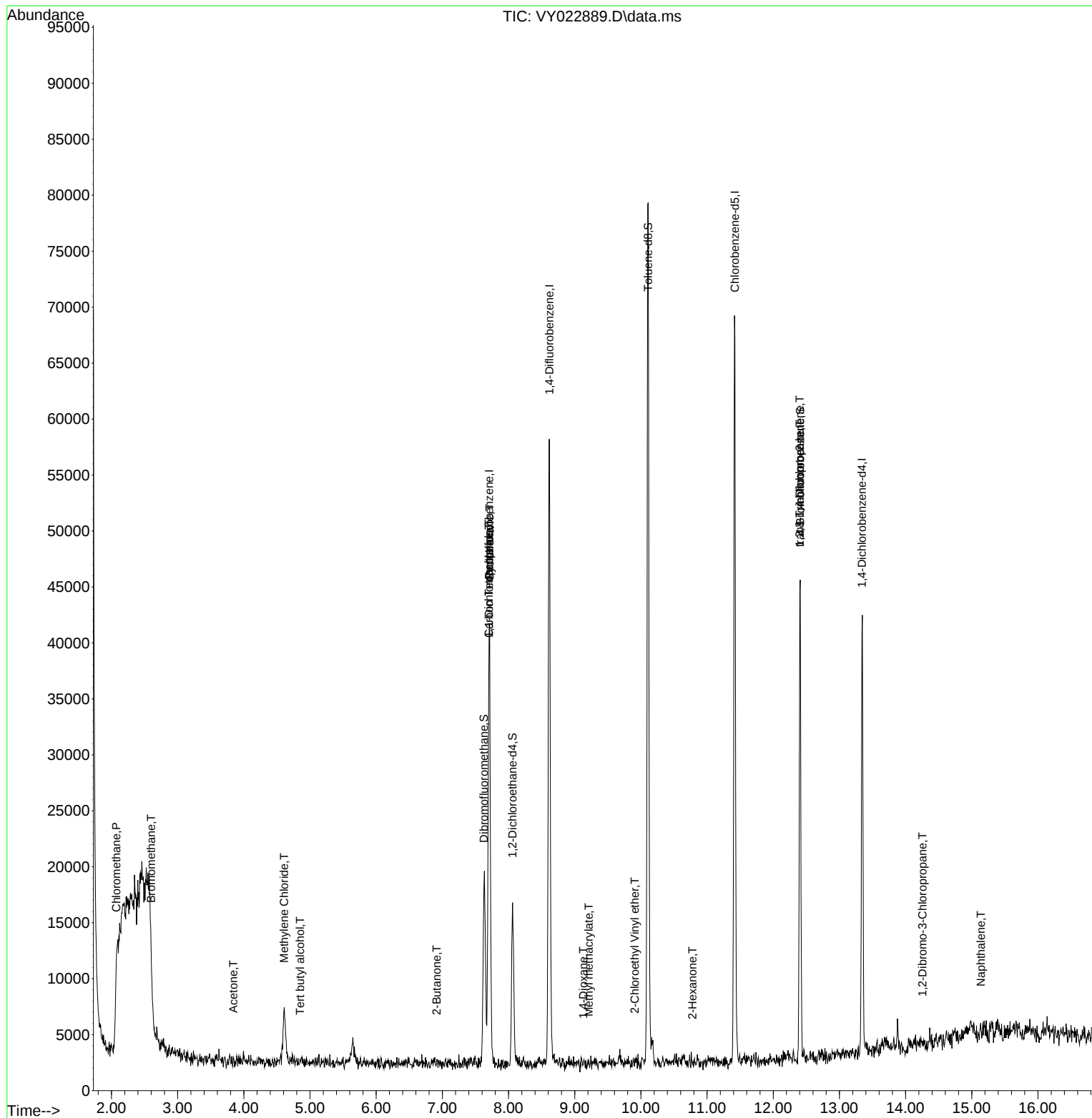
Target Compounds						Qvalue
3) Chloromethane	2.074	50	785	1.573	ug/l	92
5) Bromomethane	2.598	94	1056	2.155	ug/l	99
11) Tert butyl alcohol	4.848	59	119	5.247	ug/l #	73
16) Acetone	3.842	43	473	7.338	ug/l #	45
20) Methylene Chloride	4.610	84	3298	8.101	ug/l #	83
25) 2-Butanone	6.915	43	131	1.396	ug/l #	46
31) Cyclohexane	7.713	56	812	1.386	ug/l #	4
36) 1,1-Dichloropropene	7.701	75	2340	5.408	ug/l #	49
38) Carbon Tetrachloride	7.701	117	3007	6.586	ug/l #	23
48) Methyl methacrylate	9.213	41	260	1.394	ug/l #	25
49) 1,4-Dioxane	9.128	88	40	19.155	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.908	63	48	15.933	ug/l #	48
59) 2-Hexanone	10.780	43	145	1.081	ug/l	68
76) 1,2,3-Trichloropropane	12.402	75	6634	67.053	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	6634	169.402	ug/l #	10
92) 1,2-Dibromo-3-Chloropr...	14.255	75	23	1.174	ug/l #	2
95) Naphthalene	15.139	128	346	1.179	ug/l #	83

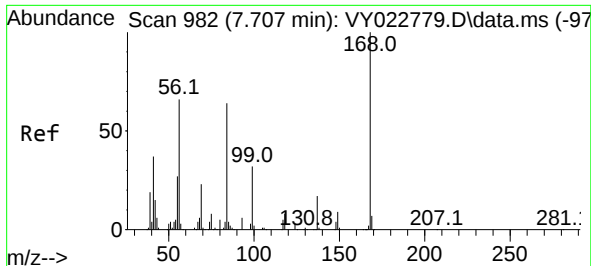
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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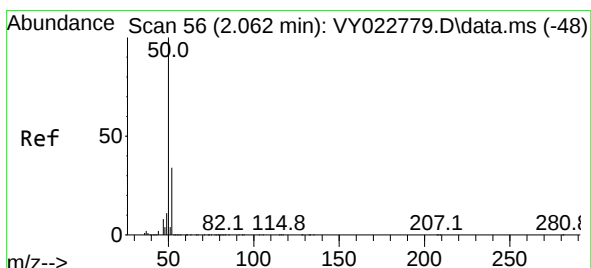
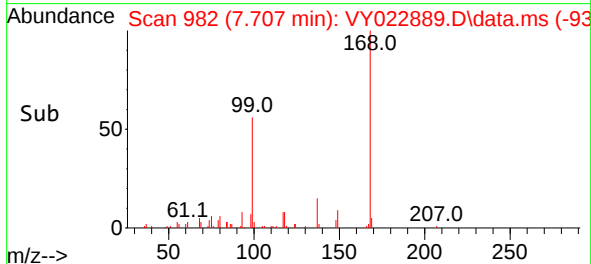
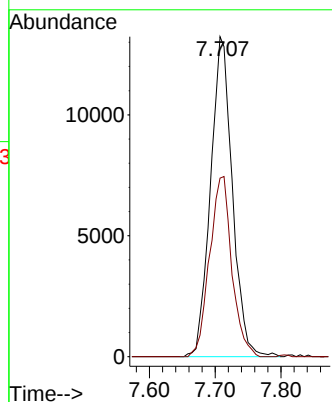
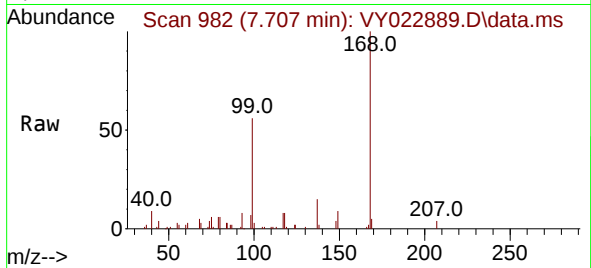




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

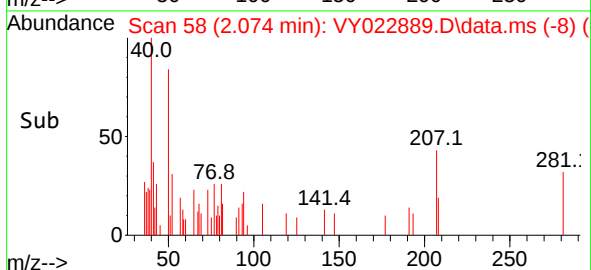
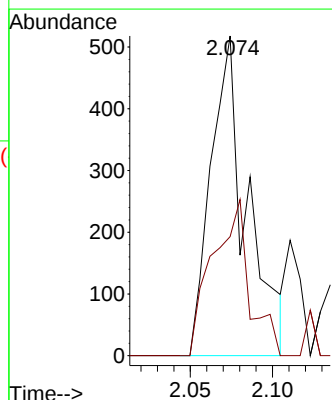
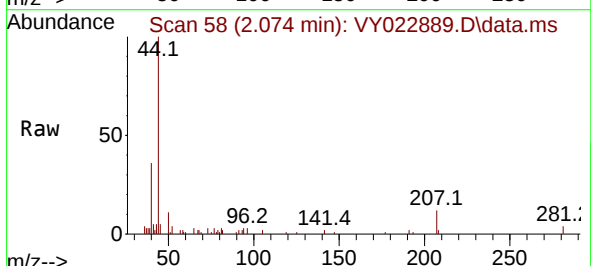
Instrument :
MSVOA_Y
ClientSampleId :
TP-68

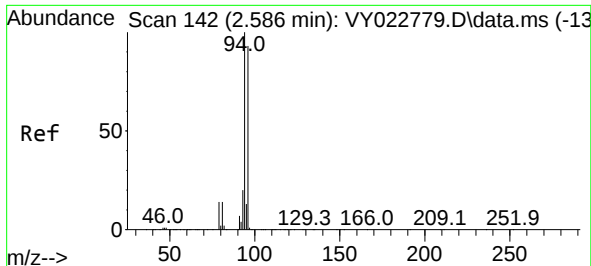
Tgt Ion:168 Resp: 30558
Ion Ratio Lower Upper
168 100
99 55.8 44.3 66.5



#3
Chloromethane
Concen: 1.573 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

Tgt Ion: 50 Resp: 785
Ion Ratio Lower Upper
50 100
52 37.3 26.0 39.0

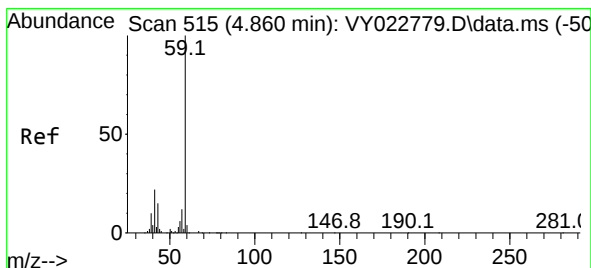
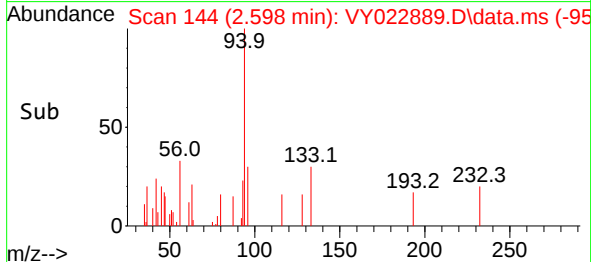
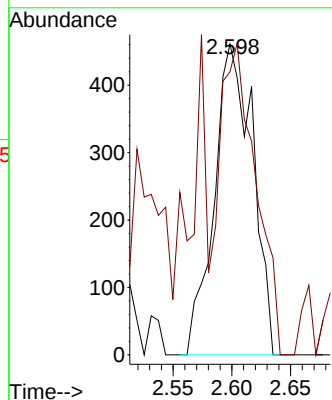
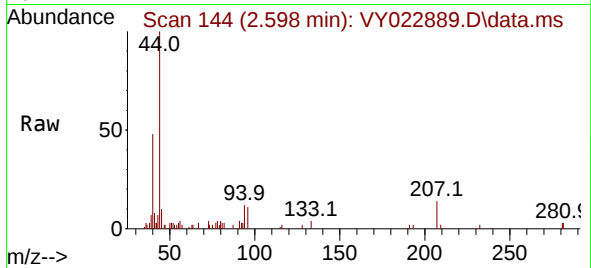




#5
Bromomethane
Concen: 2.155 ug/l
RT: 2.598 min Scan# 142
Delta R.T. -0.000 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

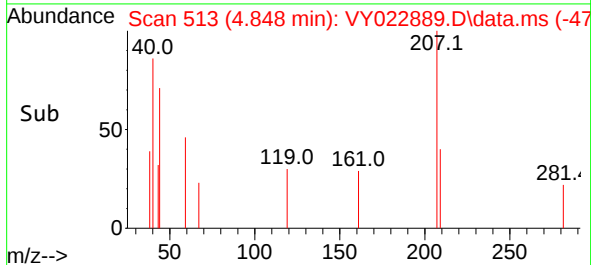
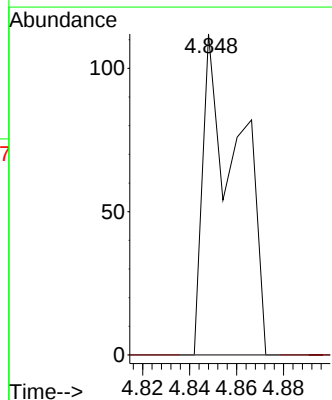
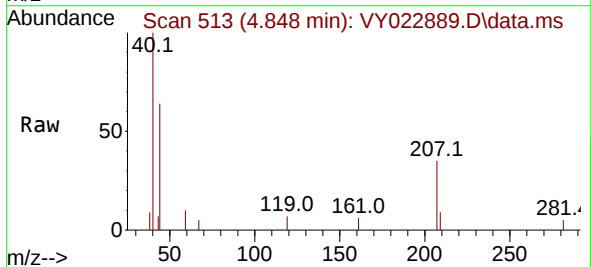
Instrument :
MSVOA_Y
ClientSampleId :
TP-68

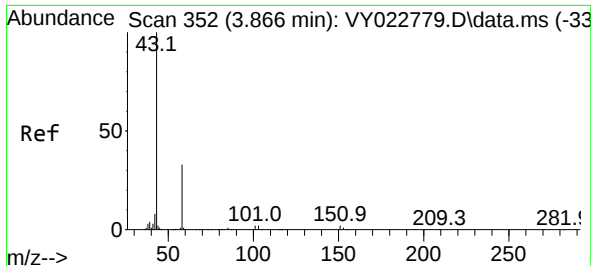
Tgt Ion: 94 Resp: 1056
Ion Ratio Lower Upper
94 100
96 91.1 74.0 111.0



#11
Tert butyl alcohol
Concen: 5.247 ug/l
RT: 4.848 min Scan# 513
Delta R.T. -0.037 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

Tgt Ion: 59 Resp: 119
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

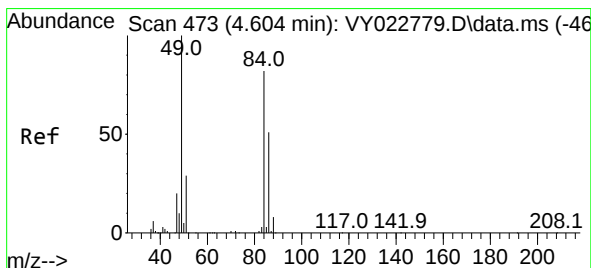
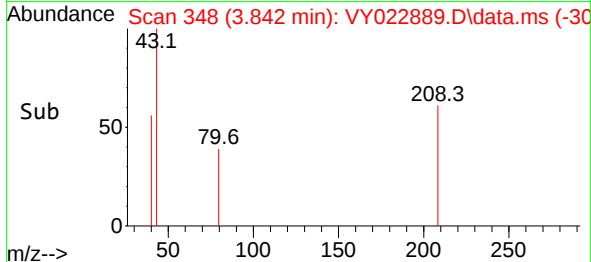
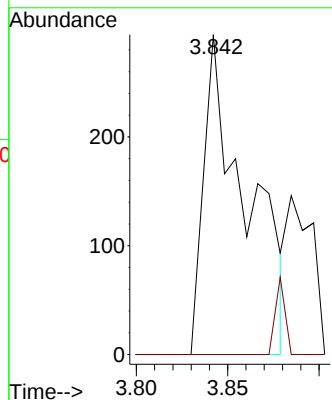
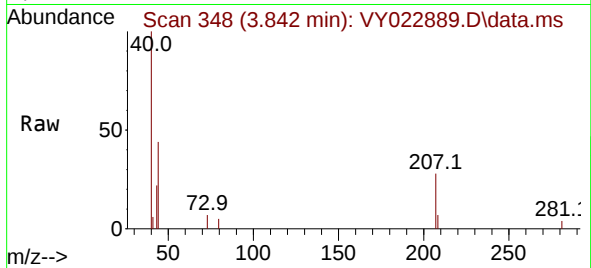




#16
Acetone
Concen: 7.338 ug/l
RT: 3.842 min Scan# 34
Delta R.T. -0.037 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

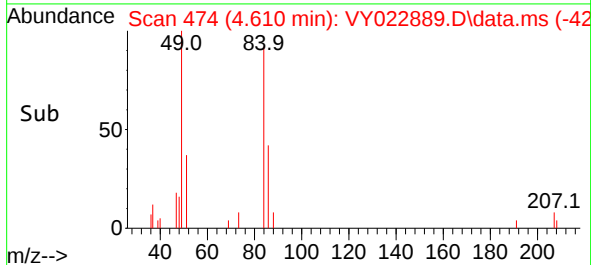
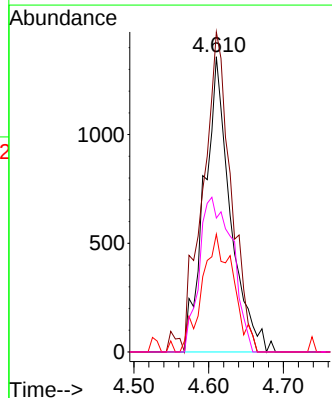
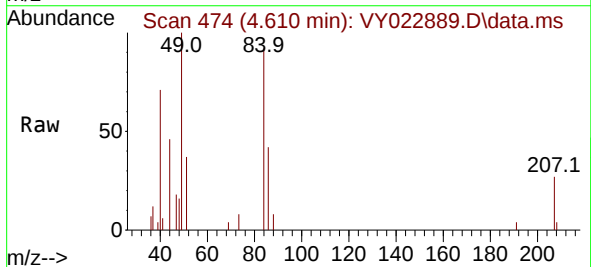
Instrument :
MSVOA_Y
ClientSampleId :
TP-68

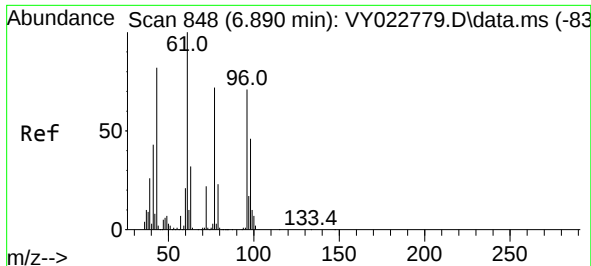
Tgt Ion: 43 Resp: 473
Ion Ratio Lower Upper
43 100
58 0.0 24.0 36.0#



#20
Methylene Chloride
Concen: 8.101 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.012 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

Tgt Ion: 84 Resp: 3298
Ion Ratio Lower Upper
84 100
49 108.4 101.9 152.9
51 39.9 29.8 44.8
86 45.4 51.3 76.9#

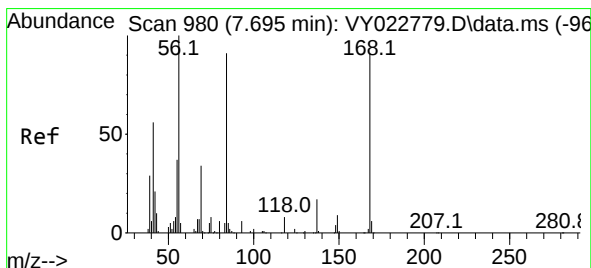
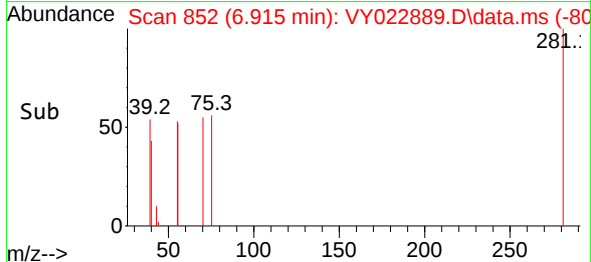
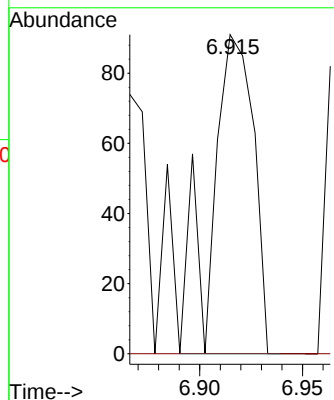
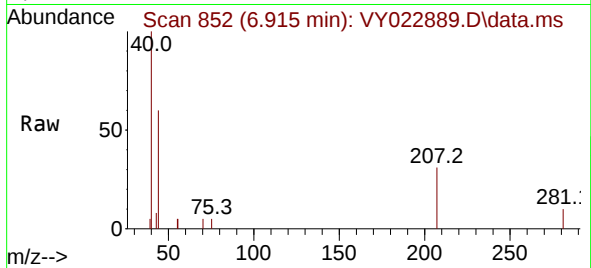




#25
2-Butanone
Concen: 1.396 ug/l
RT: 6.915 min Scan# 81
Delta R.T. 0.012 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

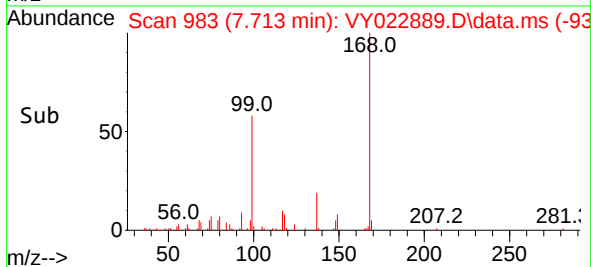
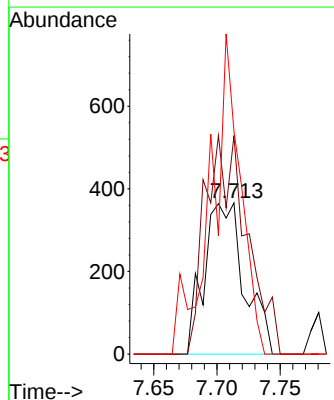
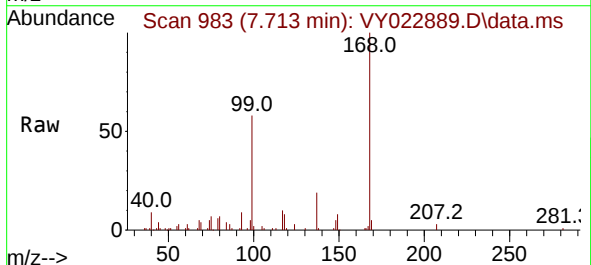
Instrument :
MSVOA_Y
ClientSampleId :
TP-68

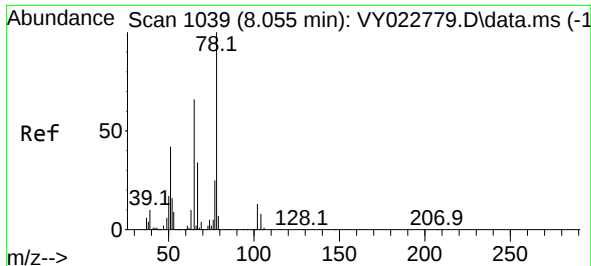
Tgt Ion: 43 Resp: 131
Ion Ratio Lower Upper
43 100
72 0.0 22.9 34.3#



#31
Cyclohexane
Concen: 1.386 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

Tgt Ion: 56 Resp: 812
Ion Ratio Lower Upper
56 100
69 144.5 27.0 40.6#
84 147.5 72.6 109.0#





#33

1,2-Dichloroethane-d4

Concen: 34.015 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY022889.D

Acq: 30 Jun 2025 18:46

Instrument :

MSVOA_Y

ClientSampleId :

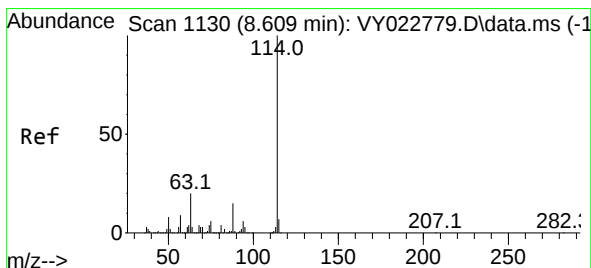
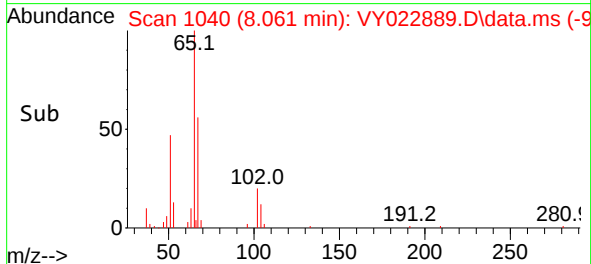
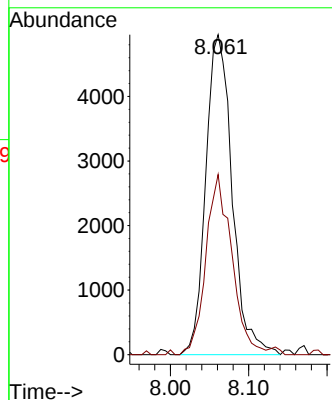
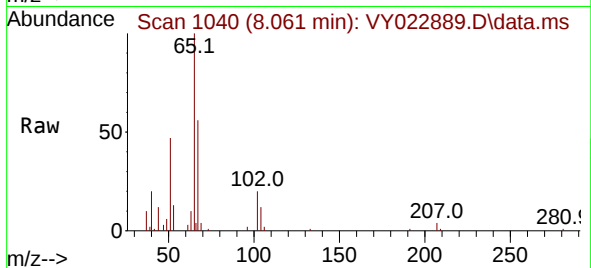
TP-68

Tgt Ion: 65 Resp: 11601

Ion Ratio Lower Upper

65 100

67 55.3 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022889.D

Acq: 30 Jun 2025 18:46

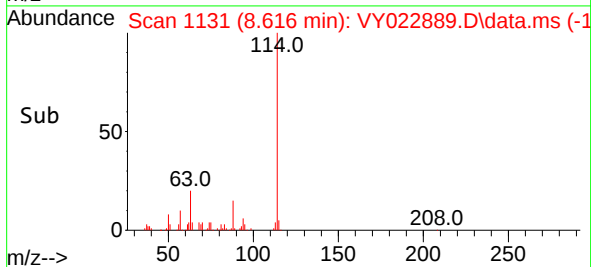
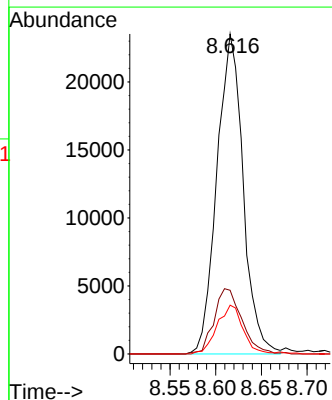
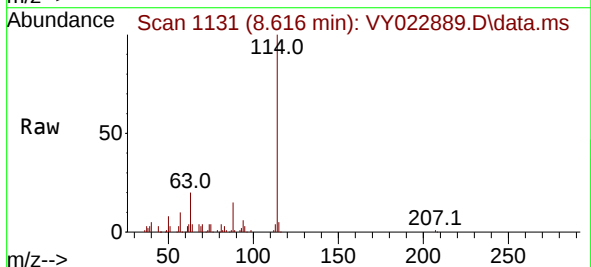
Tgt Ion:114 Resp: 46940

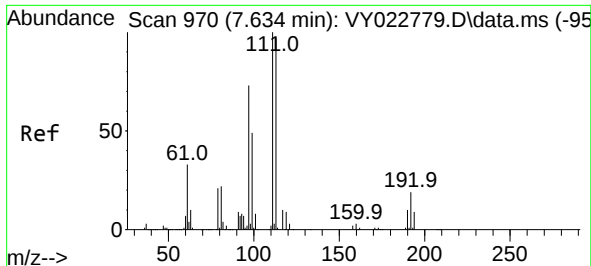
Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.8

88 15.2 0.0 27.8

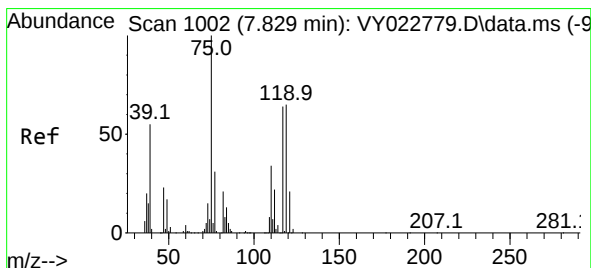
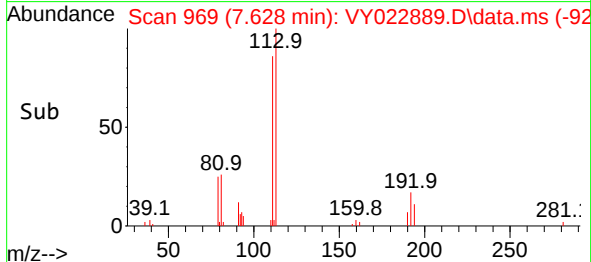
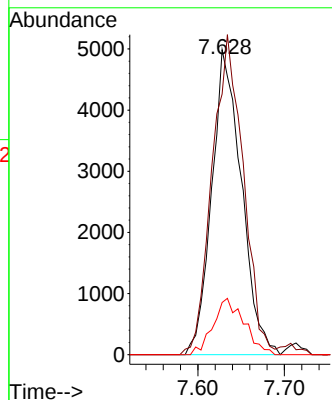
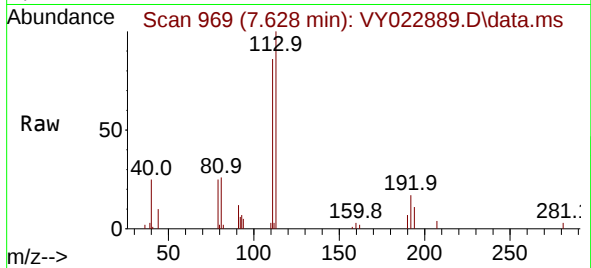




#35
Dibromofluoromethane
Concen: 41.609 ug/l
RT: 7.628 min Scan# 910
Delta R.T. -0.012 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

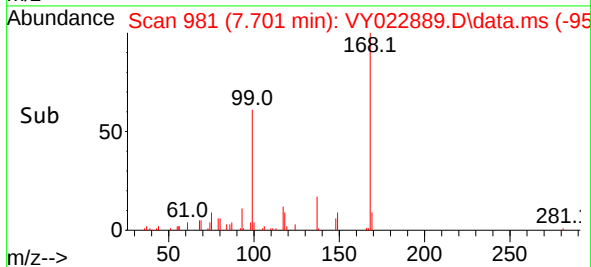
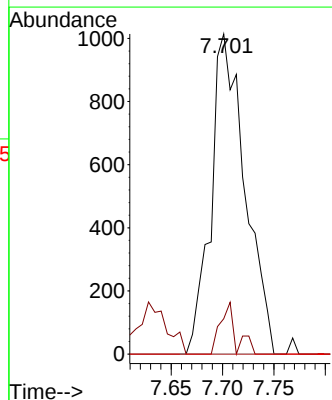
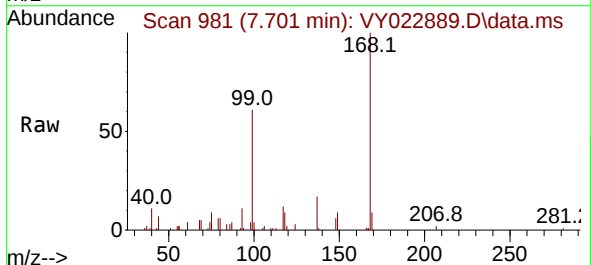
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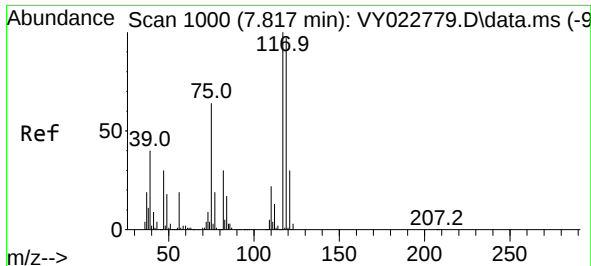
Tgt Ion:113 Resp: 11878
Ion Ratio Lower Upper
113 100
111 109.8 81.1 121.7
192 19.3 14.2 21.2



#36
1,1-Dichloropropene
Concen: 5.408 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.140 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

Tgt Ion: 75 Resp: 2340
Ion Ratio Lower Upper
75 100
110 7.5 16.9 50.7#
77 0.0 24.8 37.2#

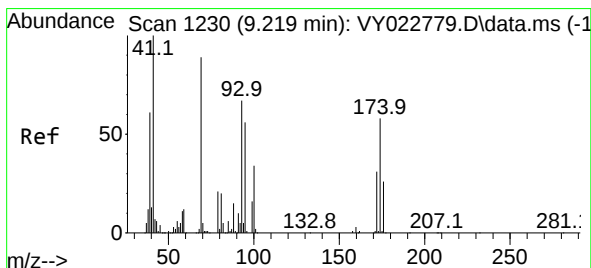
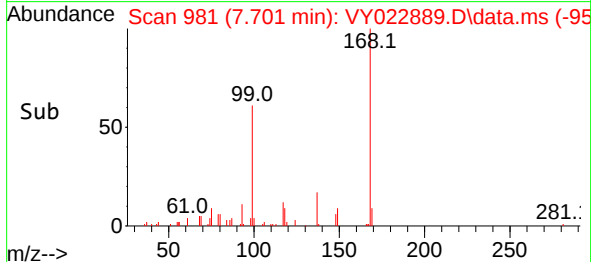
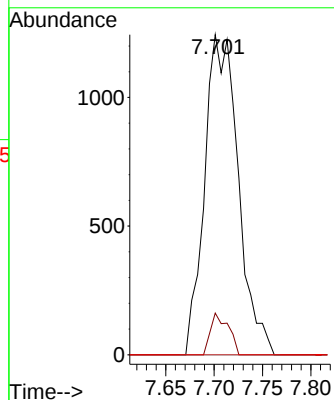
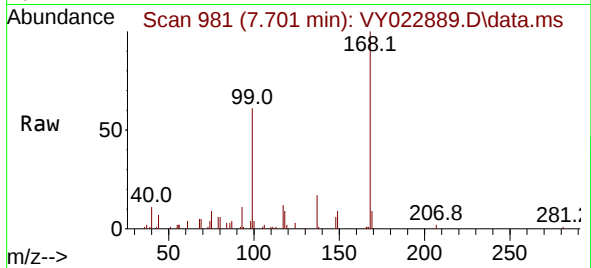




#38
Carbon Tetrachloride
Concen: 6.586 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

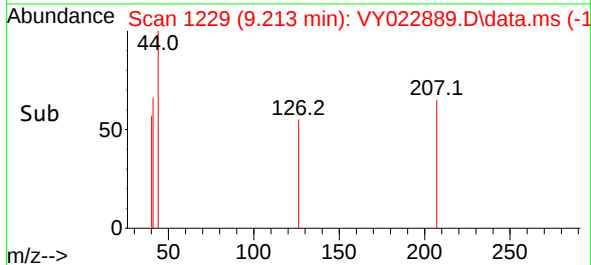
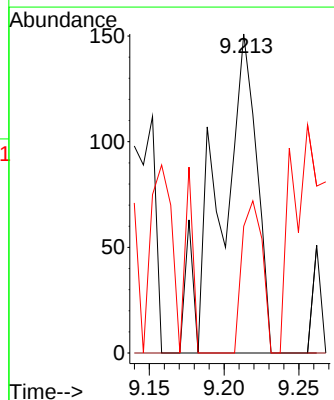
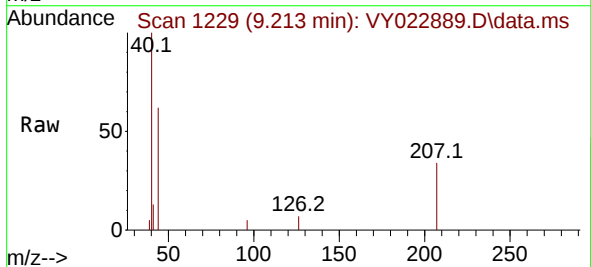
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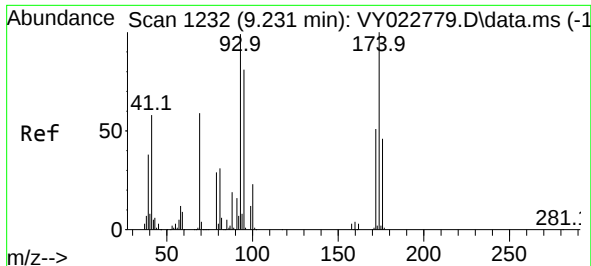
Tgt Ion:117 Resp: 3007
Ion Ratio Lower Upper
117 100
119 13.0 75.0 112.6#
121 0.0 25.0 37.4#



#48
Methyl methacrylate
Concen: 1.394 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. -0.012 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

Tgt Ion: 41 Resp: 260
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.8#
39 26.2 55.0 82.4#





#49

1,4-Dioxane

Concen: 19.155 ug/l

RT: 9.128 min Scan# 1

Delta R.T. -0.116 min

Lab File: VY022889.D

Acq: 30 Jun 2025 18:46

Instrument :

MSVOA_Y

ClientSampleId :

TP-68

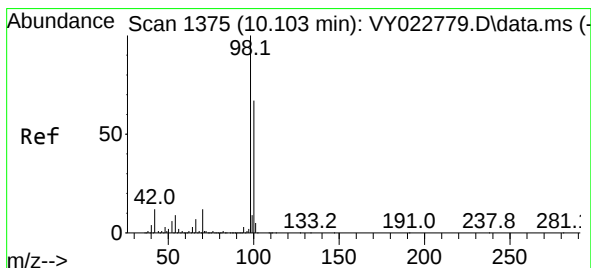
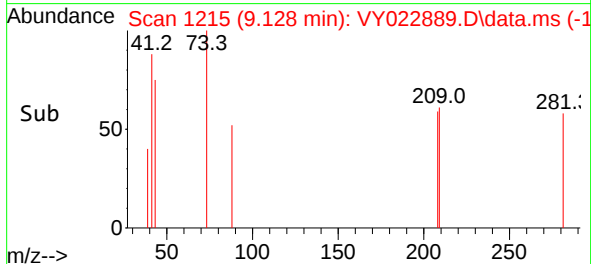
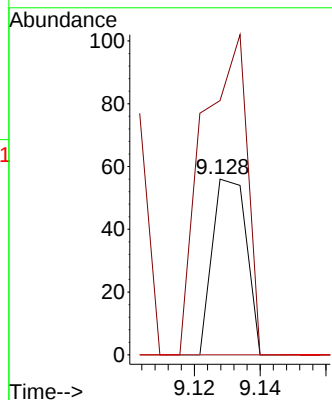
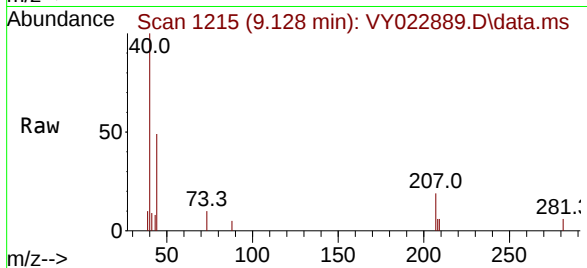
Tgt Ion: 88 Resp: 40

Ion Ratio Lower Upper

88 100

43 237.5 25.4 38.2#

58 0.0 54.9 82.3#



#50

Toluene-d8

Concen: 46.214 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY022889.D

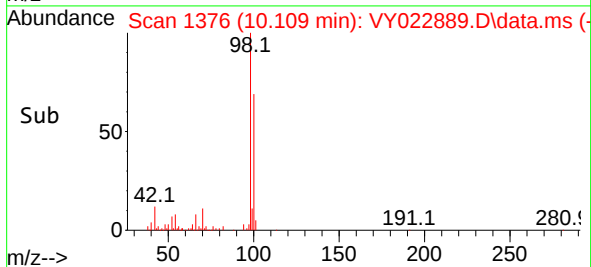
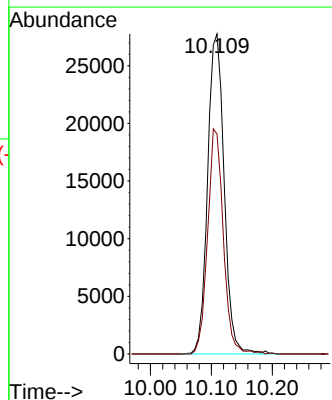
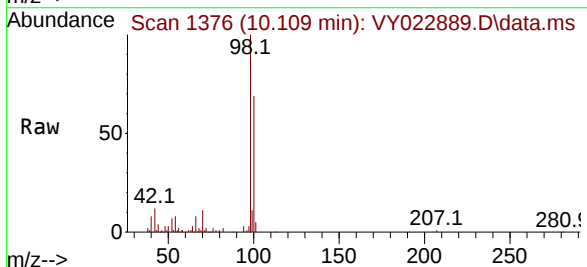
Acq: 30 Jun 2025 18:46

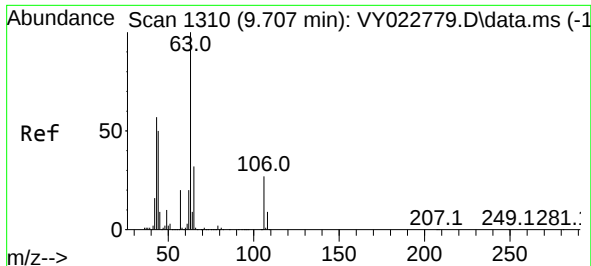
Tgt Ion: 98 Resp: 52350

Ion Ratio Lower Upper

98 100

100 67.0 51.4 77.0





#58

2-Chloroethyl Vinyl ether

Concen: 15.933 ug/l

RT: 9.908 min Scan# 1343

Delta R.T. 0.195 min

Lab File: VY022889.D

Acq: 30 Jun 2025 18:46

Instrument :

MSVOA_Y

ClientSampleId :

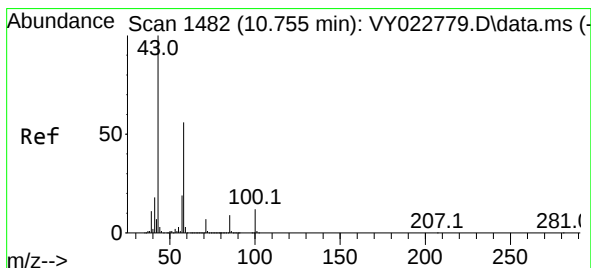
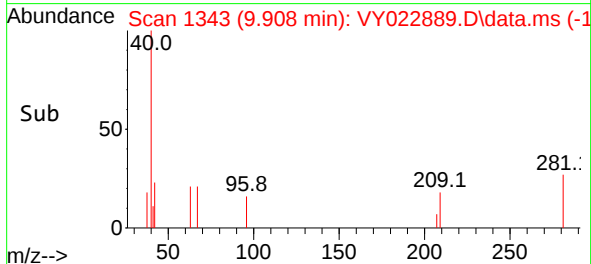
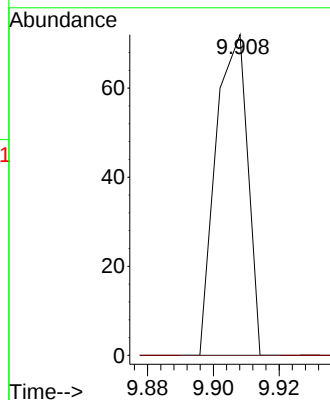
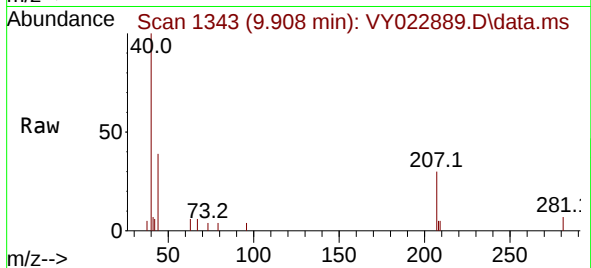
TP-68

Tgt Ion: 63 Resp: 48

Ion Ratio Lower Upper

63 100

106 0.0 21.6 32.4#



#59

2-Hexanone

Concen: 1.081 ug/l

RT: 10.780 min Scan# 1486

Delta R.T. 0.018 min

Lab File: VY022889.D

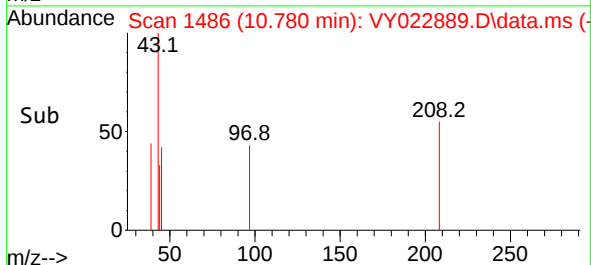
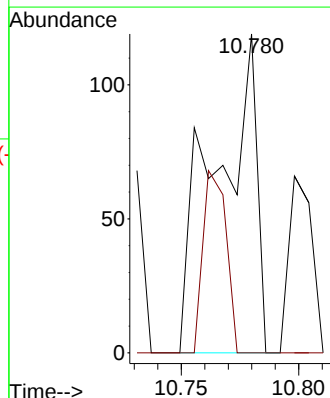
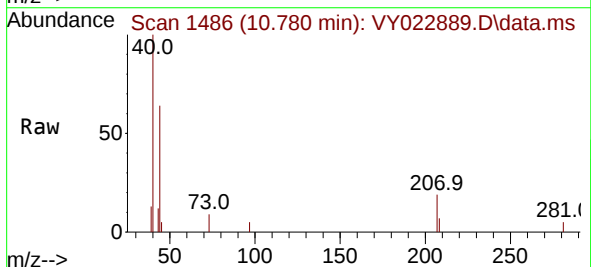
Acq: 30 Jun 2025 18:46

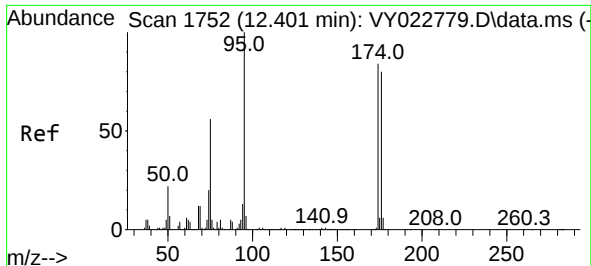
Tgt Ion: 43 Resp: 145

Ion Ratio Lower Upper

43 100

58 31.7 27.3 81.8

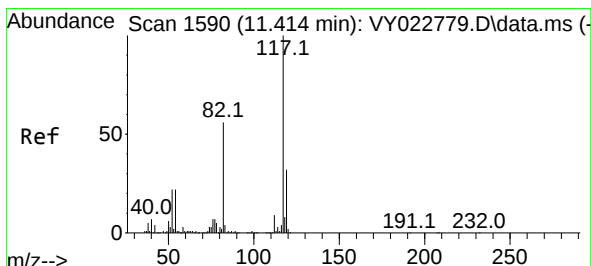
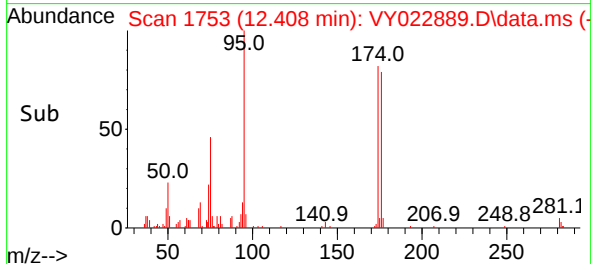
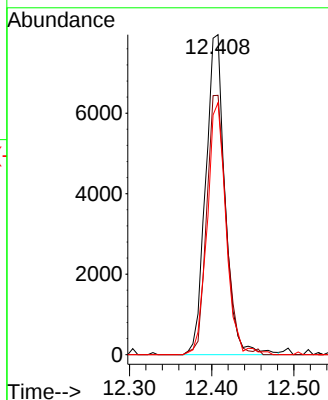
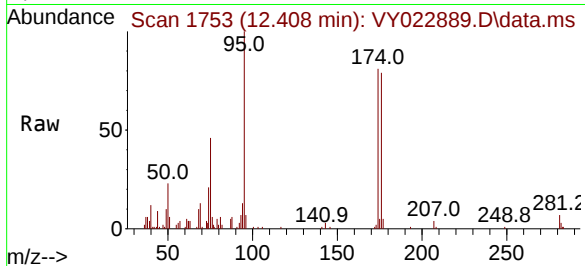




#62
4-Bromofluorobenzene
Concen: 35.771 ug/l
RT: 12.408 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

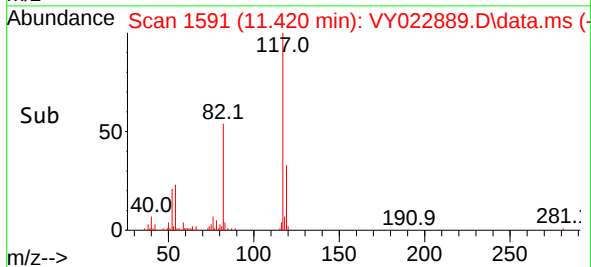
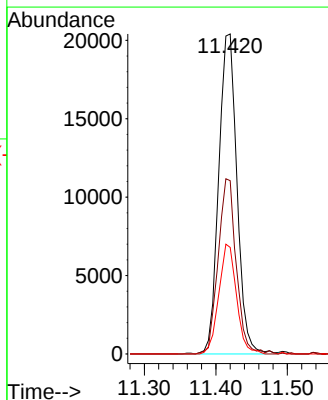
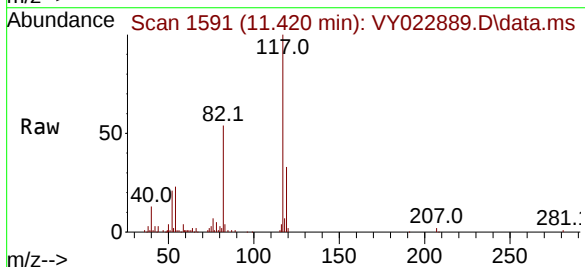
Instrument :
MSVOA_Y
ClientSampleId :
TP-68

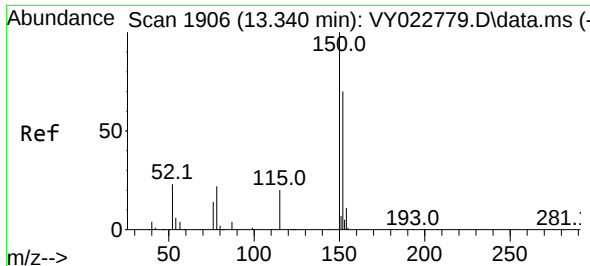
Tgt Ion: 95 Resp: 13026
Ion Ratio Lower Upper
95 100
174 81.4 0.0 170.0
176 76.7 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY022889.D
Acq: 30 Jun 2025 18:46

Tgt Ion: 117 Resp: 36176
Ion Ratio Lower Upper
117 100
82 54.2 44.6 66.8
119 33.3 25.4 38.0

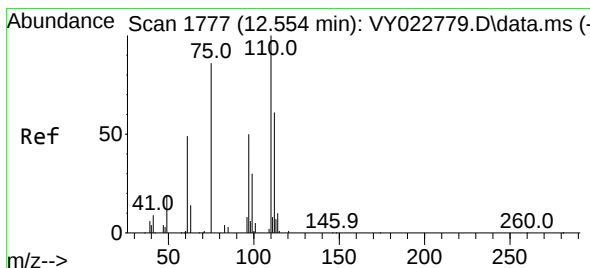
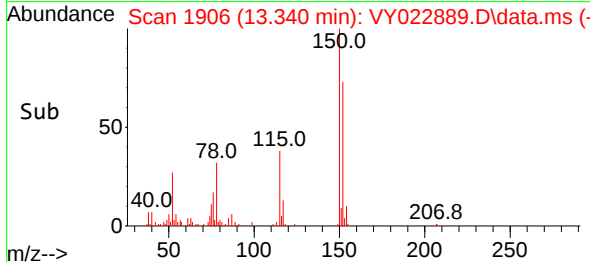
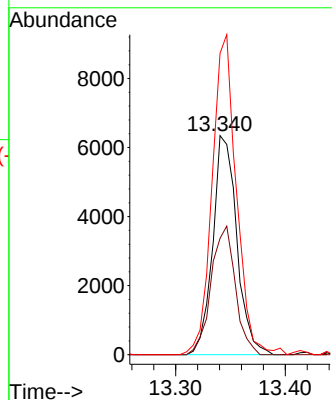
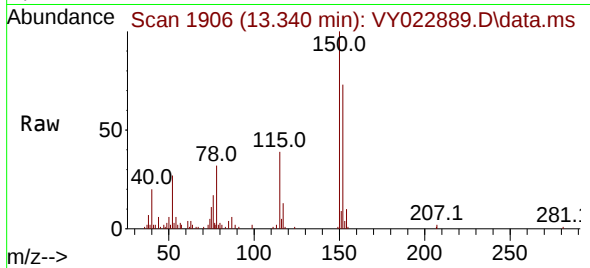




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.340 min Scan# 1906
 Delta R.T. -0.006 min
 Lab File: VY022889.D
 Acq: 30 Jun 2025 18:46

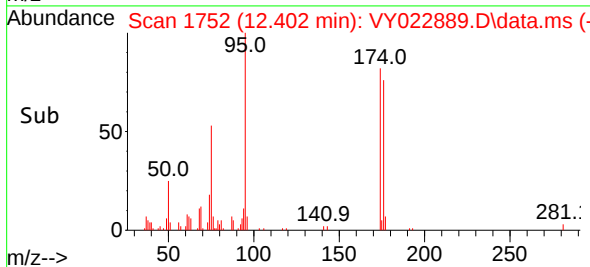
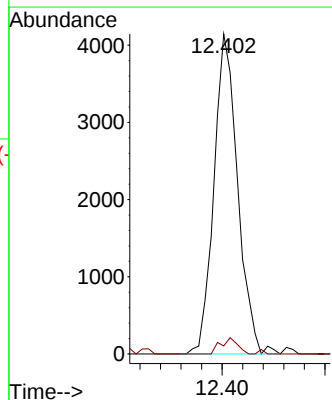
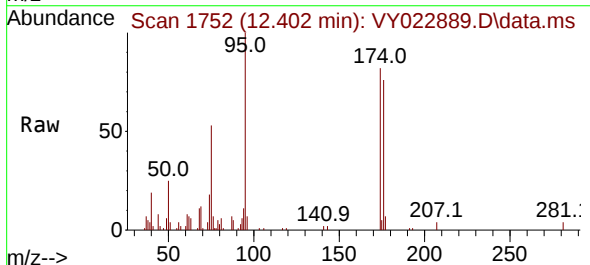
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-68

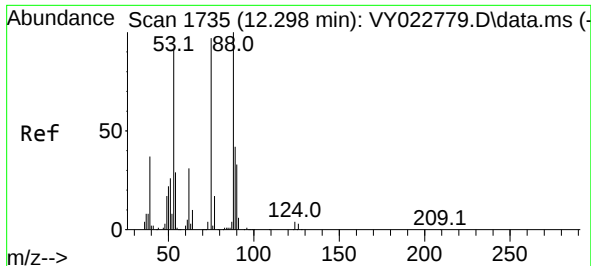
Tgt Ion:152 Resp: 9691
 Ion Ratio Lower Upper
 152 100
 115 59.0 28.9 86.7
 150 146.7 0.0 349.6



#76
 1,2,3-Trichloropropane
 Concen: 67.053 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. -0.152 min
 Lab File: VY022889.D
 Acq: 30 Jun 2025 18:46

Tgt Ion: 75 Resp: 6634
 Ion Ratio Lower Upper
 75 100
 77 3.6 0.0 0.0#

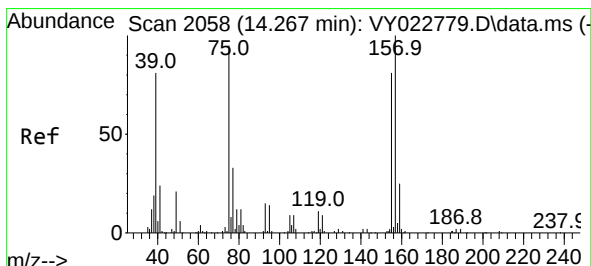
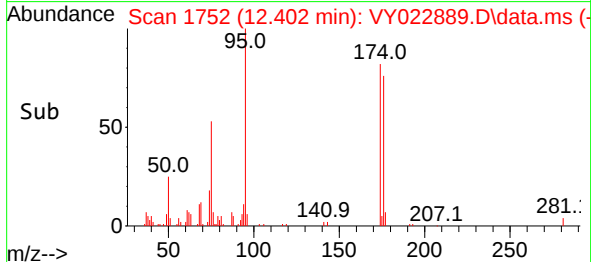
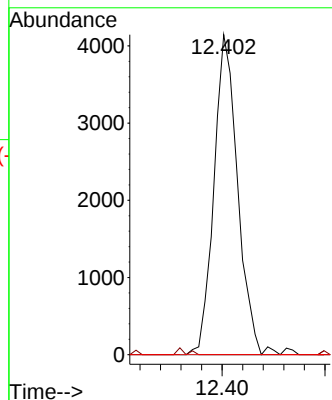
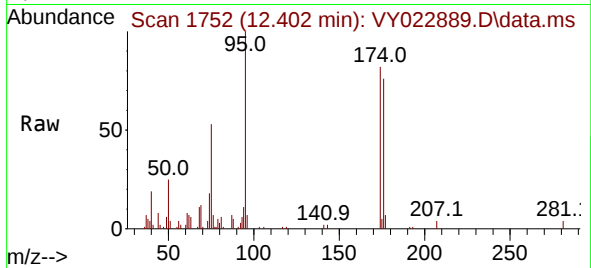




#81
 trans-1,4-Dichloro-2-butene
 Concen: 169.402 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. 0.097 min
 Lab File: VY022889.D
 Acq: 30 Jun 2025 18:46

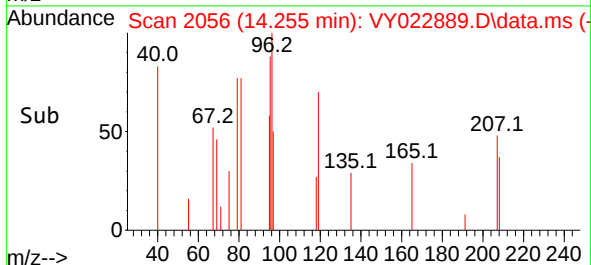
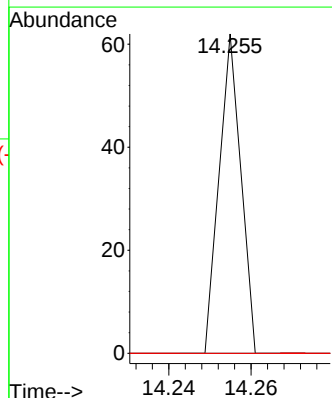
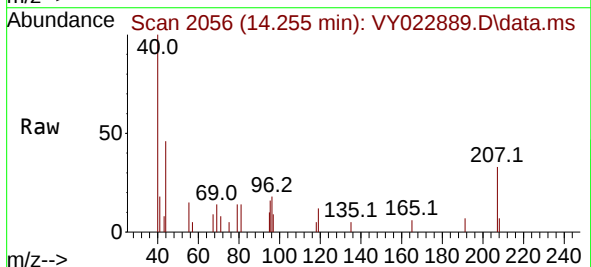
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-68

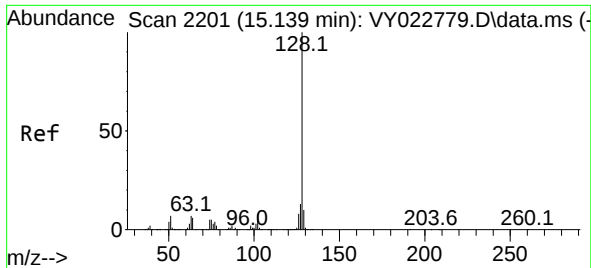
Tgt Ion: 75 Resp: 6634
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 35.7 53.5#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.174 ug/l
 RT: 14.255 min Scan# 2056
 Delta R.T. -0.018 min
 Lab File: VY022889.D
 Acq: 30 Jun 2025 18:46

Tgt Ion: 75 Resp: 23
 Ion Ratio Lower Upper
 75 100
 155 0.0 39.9 119.6#
 157 0.0 54.0 162.0#





#95

Naphthalene

Concen: 1.179 ug/l

RT: 15.139 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY022889.D

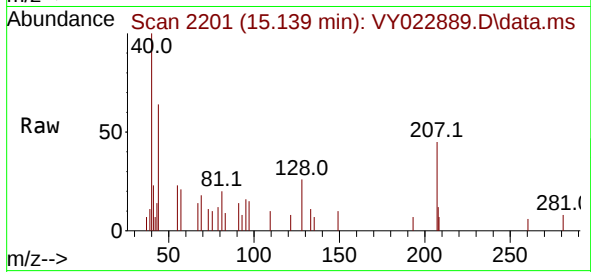
Acq: 30 Jun 2025 18:46

Instrument :

MSVOA_Y

ClientSampleId :

TP-68



Tgt Ion:128 Resp: 346

Ion Ratio Lower Upper

128 100

127 15.3 10.4 15.6

129 0.0 8.9 13.3#

