

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
 Data File : VY023036.D
 Acq On : 21 Jul 2025 18:54
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

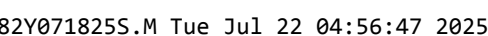
Quant Time: Jul 22 04:56:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 19 01:50:49 2025
 Response via : Initial Calibration

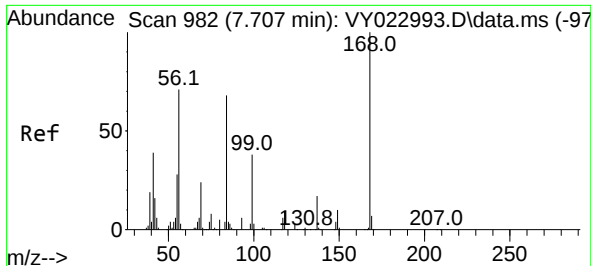
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	274387	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	539119	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	567438	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	271419	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	170008	61.204	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 122.400%	
35) Dibromofluoromethane	7.634	113	172191	50.351	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 100.700%	
50) Toluene-d8	10.103	98	679319	50.091	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.180%	
62) 4-Bromofluorobenzene	12.402	95	261640	61.288	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 122.580%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.824	59	4082	24.299	ug/l #	74
16) Acetone	3.873	43	3379	6.711	ug/l #	74
20) Methylene Chloride	4.616	84	12183	Below Cal		87
25) 2-Butanone	6.884	43	5772	7.991	ug/l #	65
26) 2,2-Dichloropropane	6.890	77	7932	1.529	ug/l #	53
31) Cyclohexane	7.701	56	7055	1.276	ug/l #	1
36) 1,1-Dichloropropene	7.701	75	23937	4.444	ug/l #	50
37) Ethyl Acetate	6.884	43	5772	2.885	ug/l #	1
38) Carbon Tetrachloride	7.707	117	28265	4.830	ug/l #	17
51) 4-Methyl-2-Pentanone	10.000	43	3059	1.517	ug/l #	86
76) 1,2,3-Trichloropropane	12.402	75	146465	43.306	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	146465	128.985	ug/l #	12

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

Quant Time: Jul 22 04:56:31 2025
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QLast Update : Sat Jul 19 01:50:49 2025
Response via : Initial Calibration

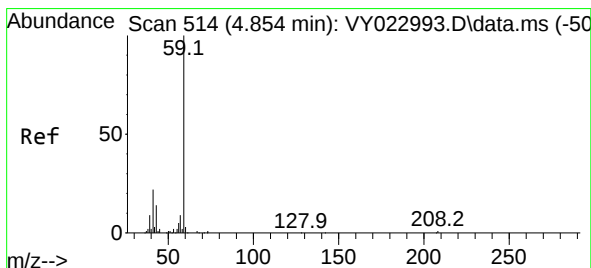
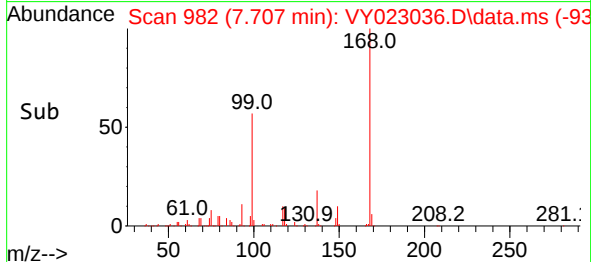
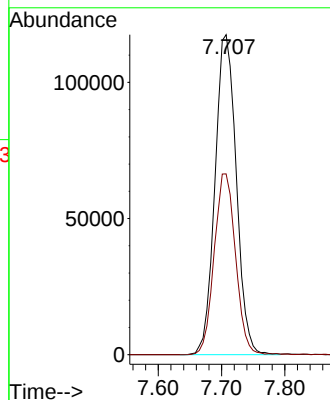
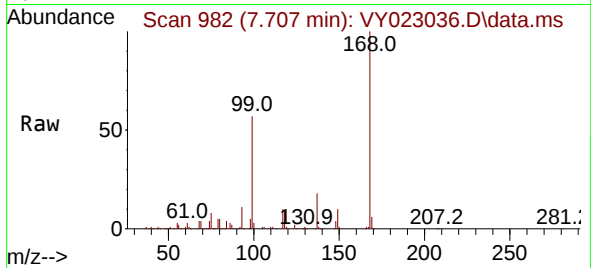




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023036.D
Acq: 21 Jul 2025 18:54

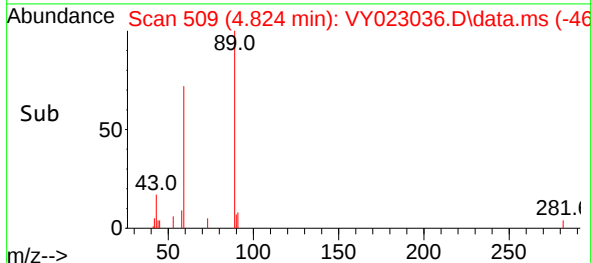
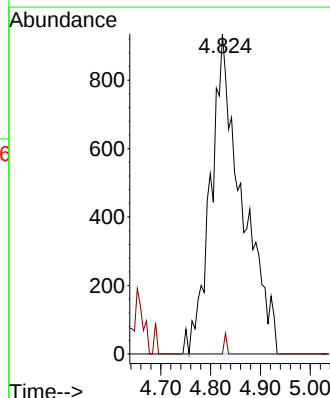
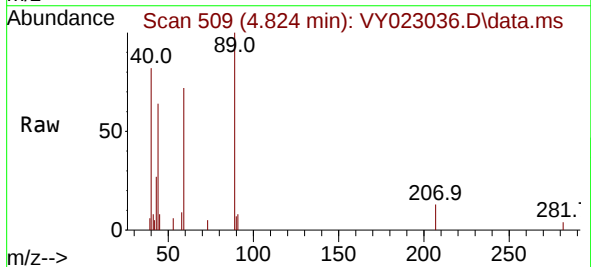
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

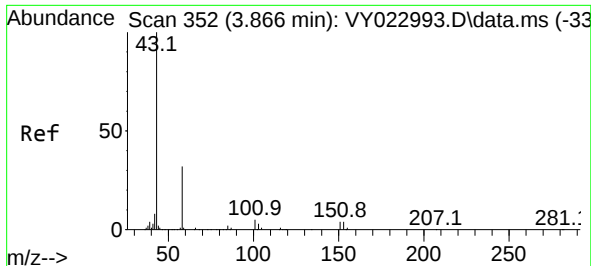
Tgt Ion:168 Resp: 274387
Ion Ratio Lower Upper
168 100
99 56.5 44.4 66.6



#11
Tert butyl alcohol
Concen: 24.299 ug/l
RT: 4.824 min Scan# 509
Delta R.T. -0.030 min
Lab File: VY023036.D
Acq: 21 Jul 2025 18:54

Tgt Ion: 59 Resp: 4082
Ion Ratio Lower Upper
59 100
57 0.5 8.2 12.2#

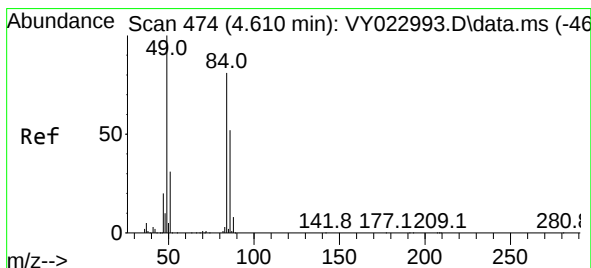
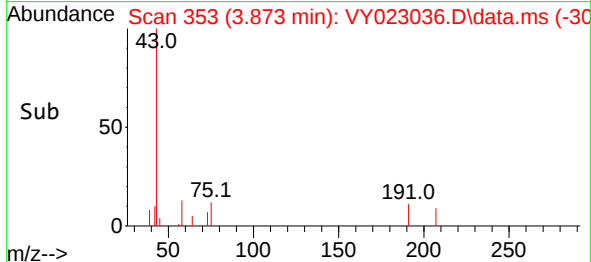
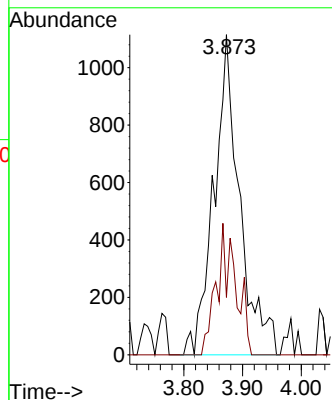
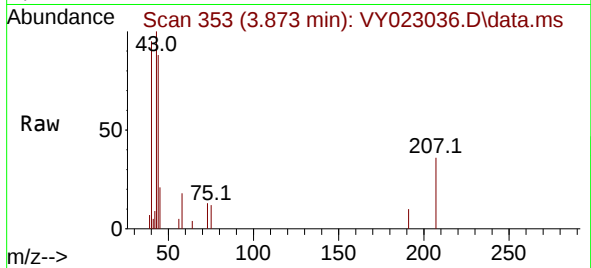




#16
Acetone
Concen: 6.711 ug/l
RT: 3.873 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY023036.D
Acq: 21 Jul 2025 18:54

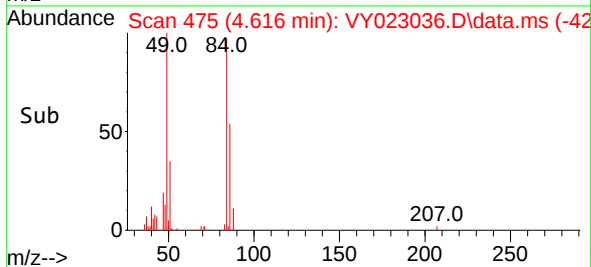
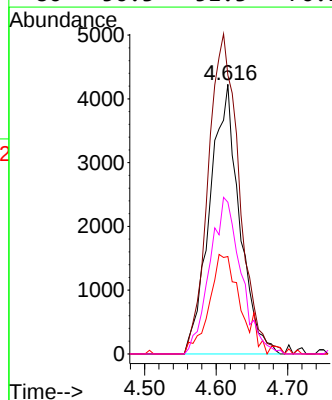
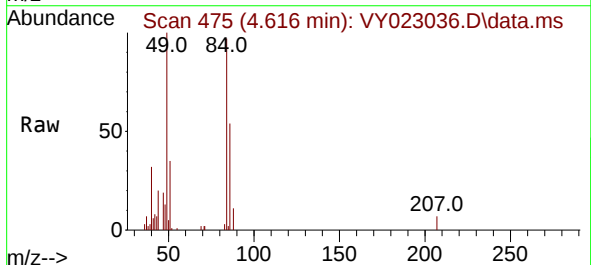
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

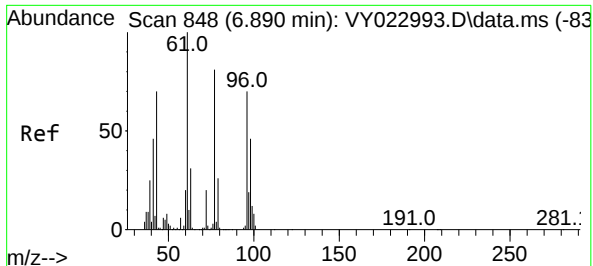
Tgt Ion: 43 Resp: 3379
Ion Ratio Lower Upper
43 100
58 17.9 26.2 39.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY023036.D
Acq: 21 Jul 2025 18:54

Tgt Ion: 84 Resp: 12183
Ion Ratio Lower Upper
84 100
49 103.5 98.2 147.4
51 36.2 30.5 45.7
86 56.3 51.3 76.9





#25

2-Butanone

Concen: 7.991 ug/l

RT: 6.884 min Scan# 847

Delta R.T. -0.006 min

Lab File: VY023036.D

Acq: 21 Jul 2025 18:54

Instrument :

MSVOA_Y

ClientSampleId :

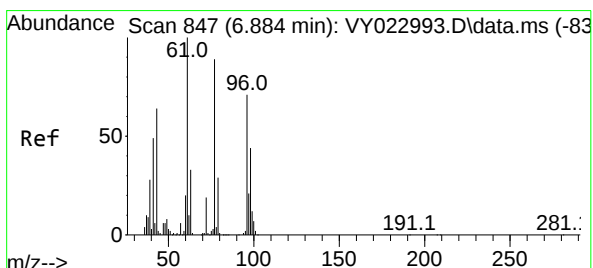
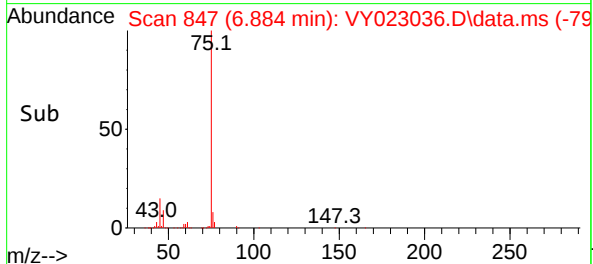
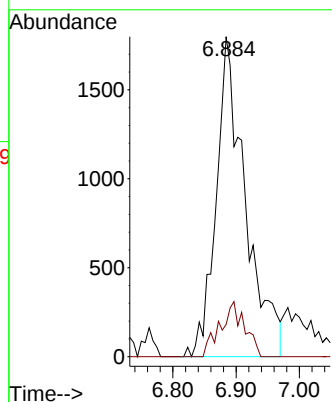
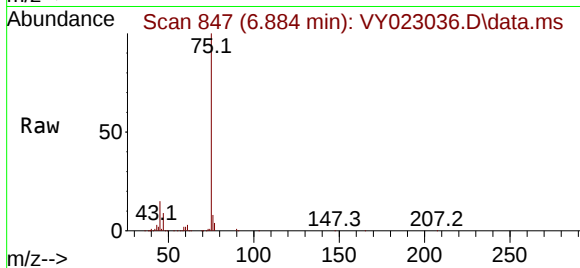
VIBLK

Tgt Ion: 43 Resp: 5772

Ion Ratio Lower Upper

43 100

72 10.1 22.9 34.3#



#26

2,2-Dichloropropane

Concen: 1.529 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.006 min

Lab File: VY023036.D

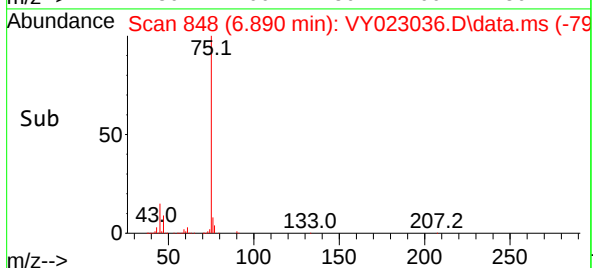
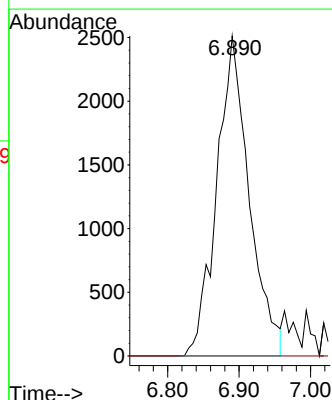
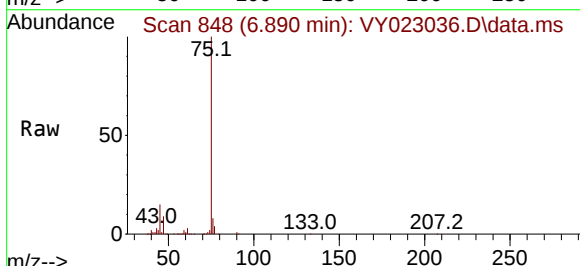
Acq: 21 Jul 2025 18:54

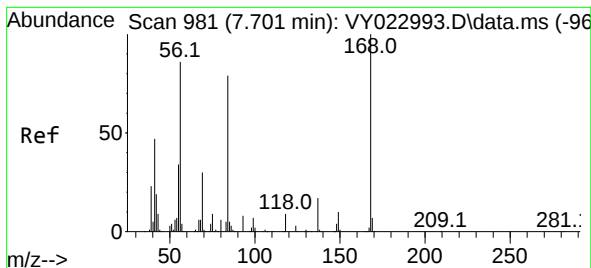
Tgt Ion: 77 Resp: 7932

Ion Ratio Lower Upper

77 100

97 0.0 11.3 33.9#





#31

Cyclohexane

Concen: 1.276 ug/l

RT: 7.701 min Scan# 981

Delta R.T. 0.000 min

Lab File: VY023036.D

Acq: 21 Jul 2025 18:54

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

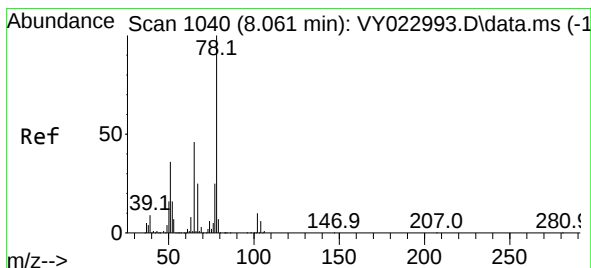
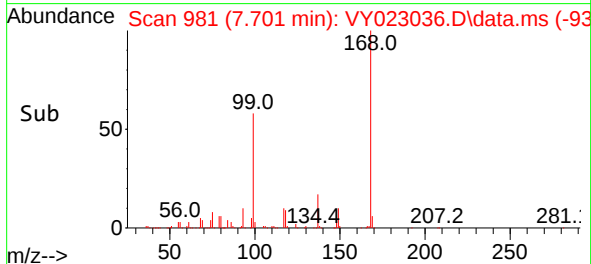
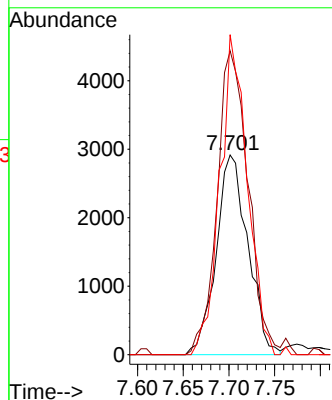
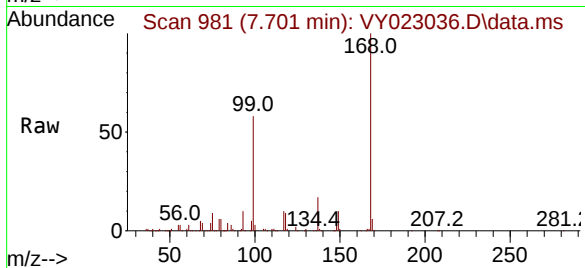
Tgt Ion: 56 Resp: 7055

Ion Ratio Lower Upper

56 100

69 152.2 28.1 42.1#

84 160.3 73.5 110.3#



#33

1,2-Dichloroethane-d4

Concen: 61.204 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY023036.D

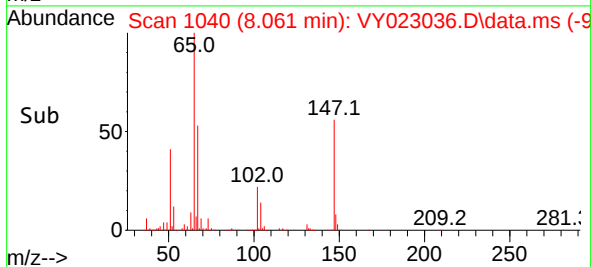
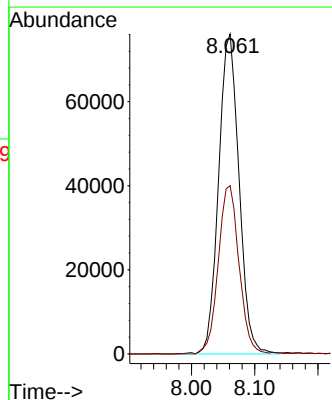
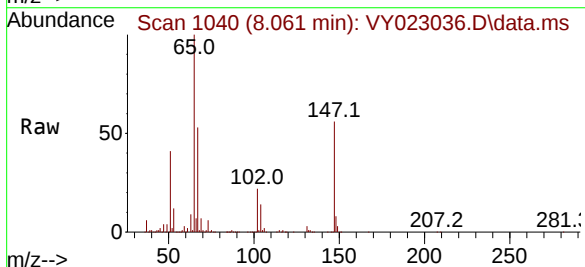
Acq: 21 Jul 2025 18:54

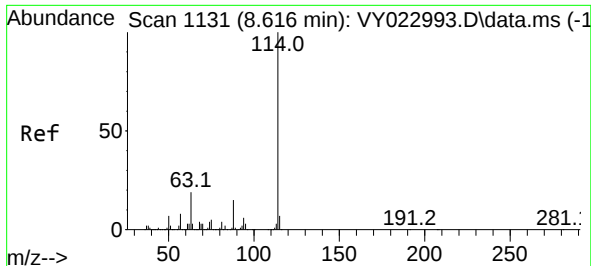
Tgt Ion: 65 Resp: 170008

Ion Ratio Lower Upper

65 100

67 53.7 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023036.D

Acq: 21 Jul 2025 18:54

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

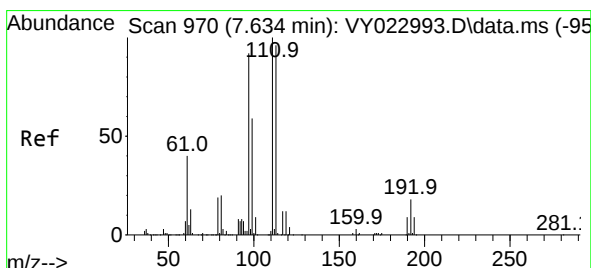
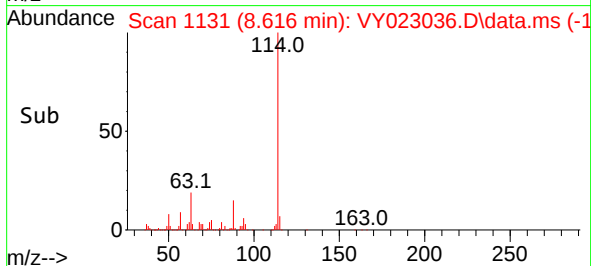
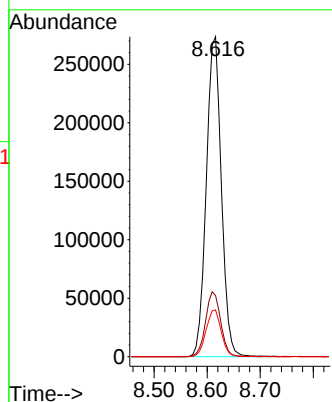
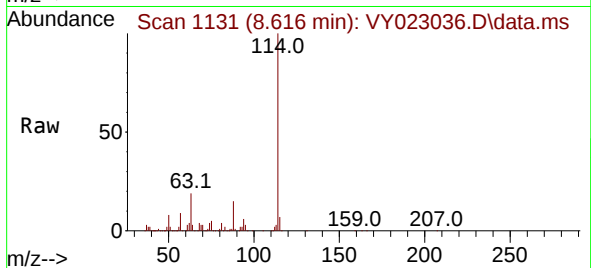
Tgt Ion:114 Resp: 539119

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.8

88 14.6 0.0 30.2



#35

Dibromofluoromethane

Concen: 50.351 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY023036.D

Acq: 21 Jul 2025 18:54

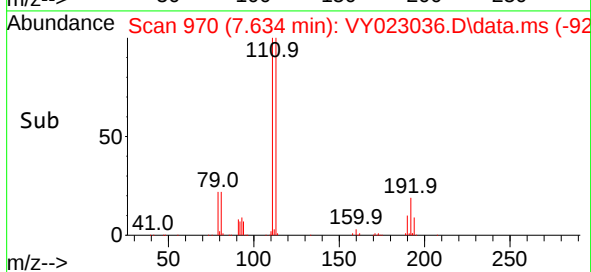
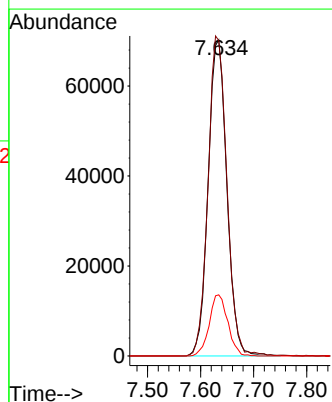
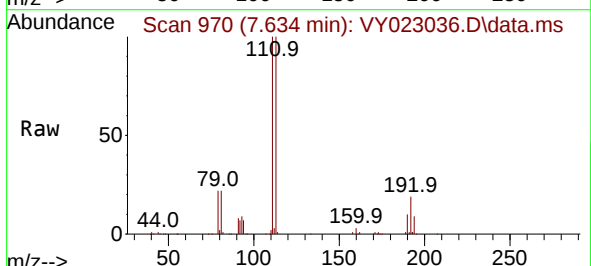
Tgt Ion:113 Resp: 172191

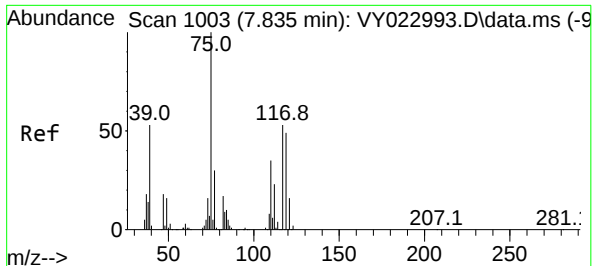
Ion Ratio Lower Upper

113 100

111 101.7 83.2 124.8

192 19.2 15.3 22.9





#36

1,1-Dichloropropene

Concen: 4.444 ug/l

RT: 7.701 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY023036.D

Acq: 21 Jul 2025 18:54

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

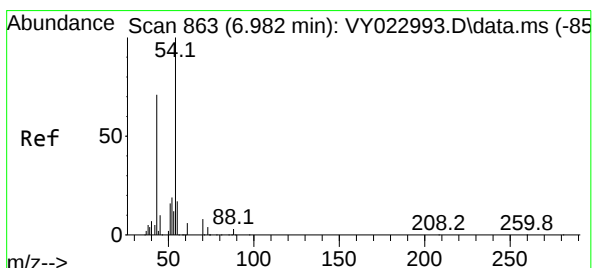
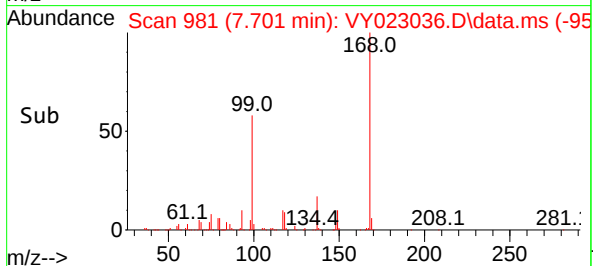
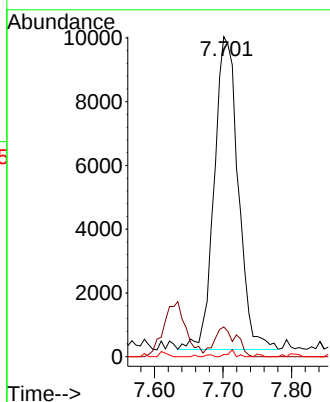
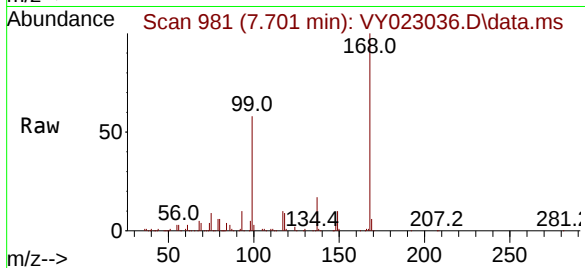
Tgt Ion: 75 Resp: 23937

Ion Ratio Lower Upper

75 100

110 8.6 17.3 51.9#

77 0.6 24.6 37.0#



#37

Ethyl Acetate

Concen: 2.885 ug/l

RT: 6.884 min Scan# 847

Delta R.T. -0.097 min

Lab File: VY023036.D

Acq: 21 Jul 2025 18:54

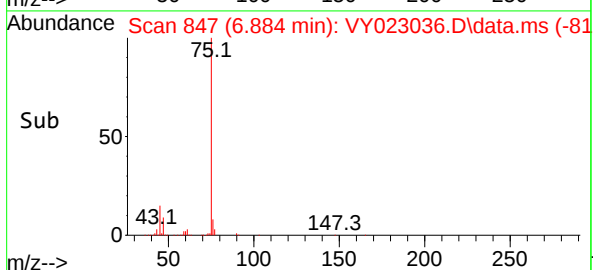
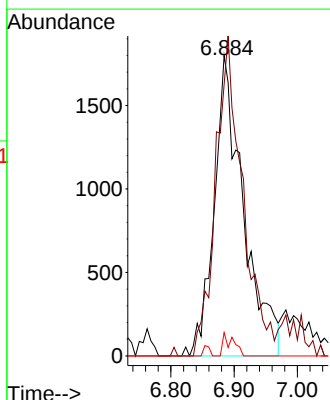
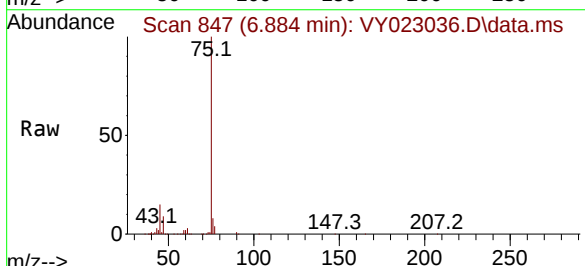
Tgt Ion: 43 Resp: 5772

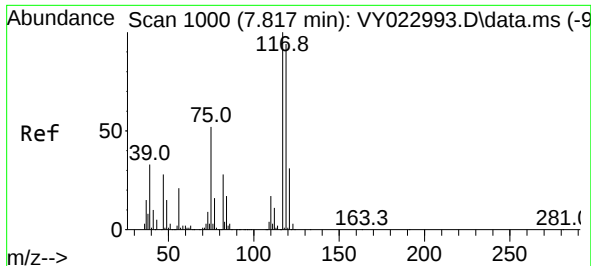
Ion Ratio Lower Upper

43 100

61 98.5 11.6 17.4#

70 2.7 8.5 12.7#

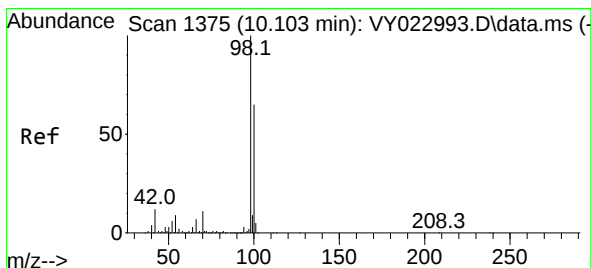
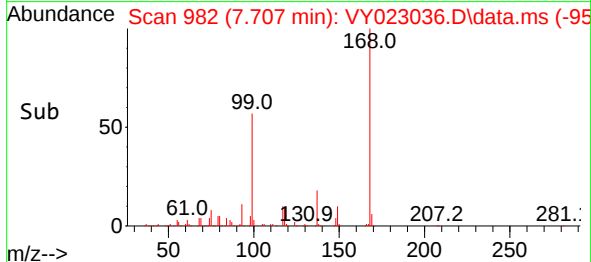
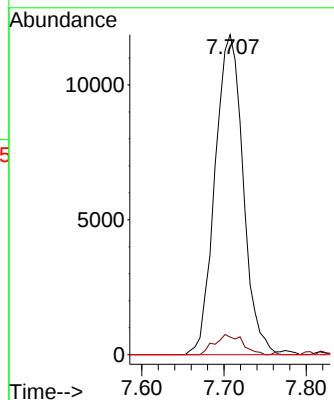
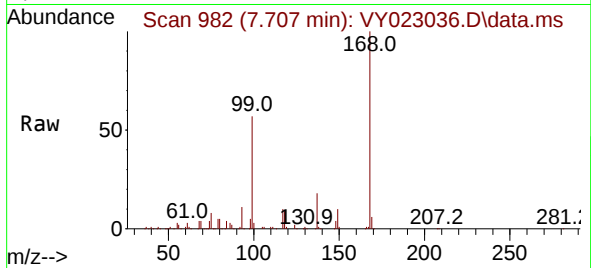




#38
Carbon Tetrachloride
Concen: 4.830 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023036.D
Acq: 21 Jul 2025 18:54

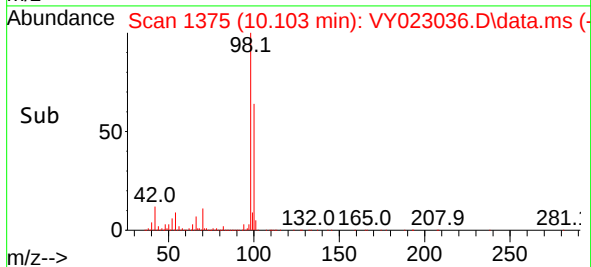
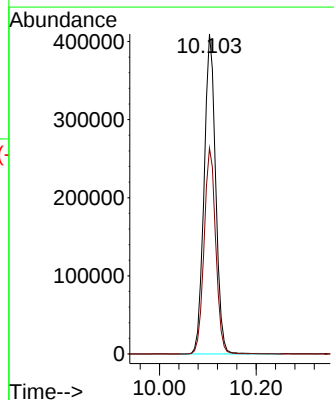
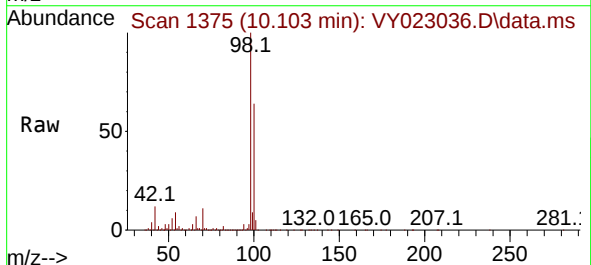
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

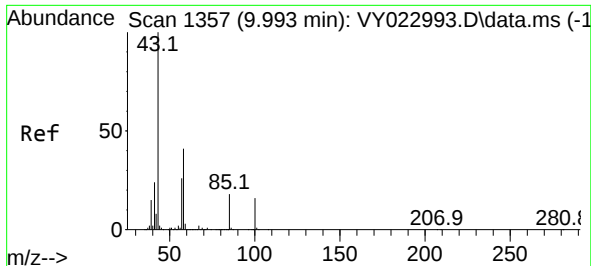
Tgt Ion:117 Resp: 28265
Ion Ratio Lower Upper
117 100
119 5.5 74.9 112.3#
121 0.0 24.6 37.0#



#50
Toluene-d8
Concen: 50.091 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023036.D
Acq: 21 Jul 2025 18:54

Tgt Ion: 98 Resp: 679319
Ion Ratio Lower Upper
98 100
100 64.6 52.2 78.2

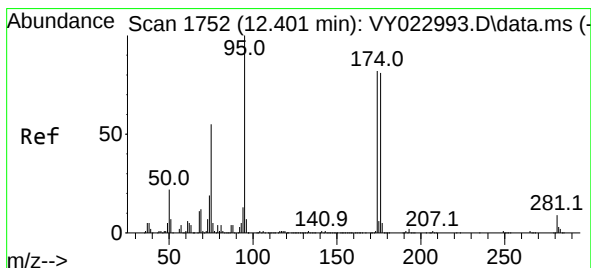
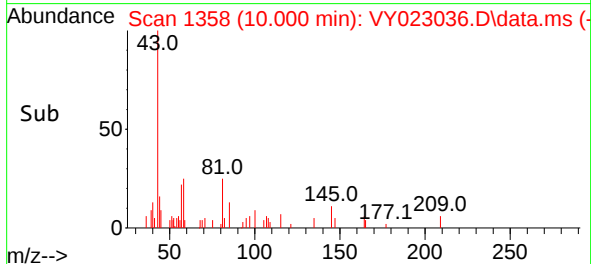
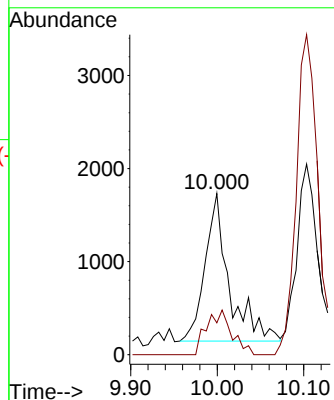
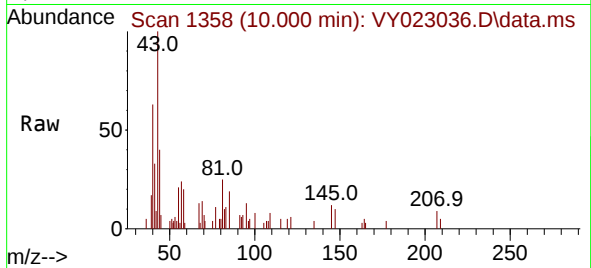




#51
4-Methyl-2-Pentanone
Concen: 1.517 ug/l
RT: 10.000 min Scan# 1357
Delta R.T. 0.006 min
Lab File: VY023036.D
Acq: 21 Jul 2025 18:54

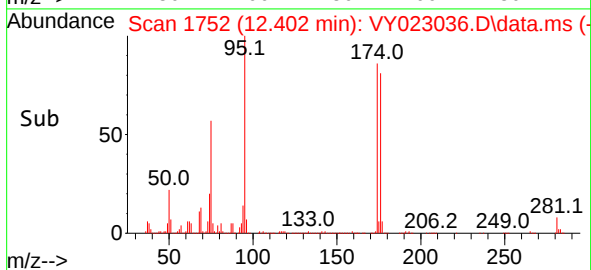
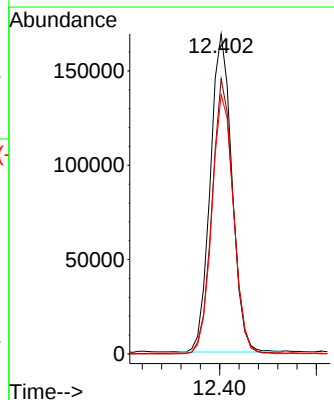
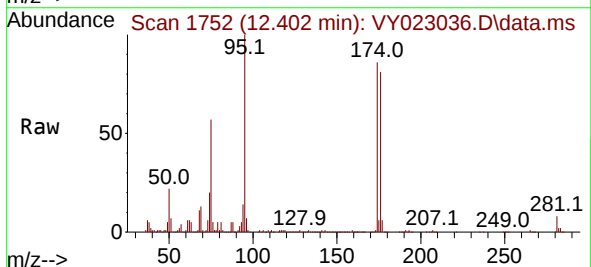
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

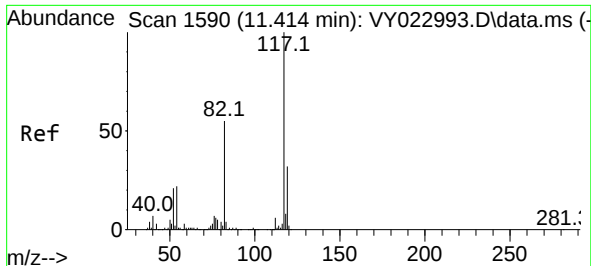
Tgt Ion: 43 Resp: 3059
Ion Ratio Lower Upper
43 100
58 31.6 32.5 48.7#



#62
4-Bromofluorobenzene
Concen: 61.288 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023036.D
Acq: 21 Jul 2025 18:54

Tgt Ion: 95 Resp: 261640
Ion Ratio Lower Upper
95 100
174 85.4 0.0 170.8
176 81.7 0.0 163.6

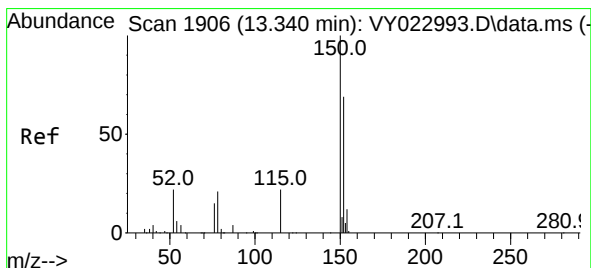
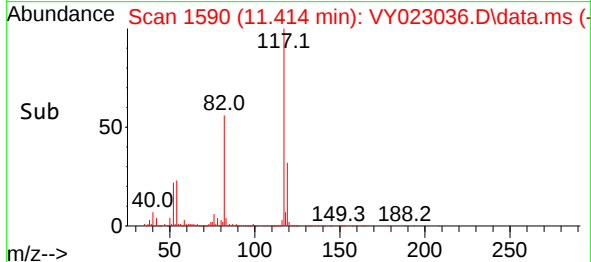
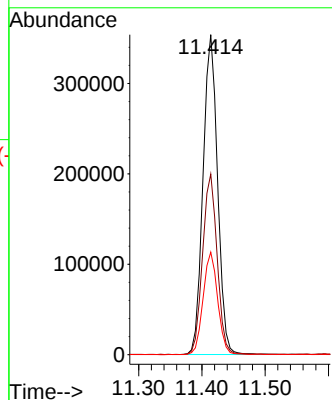
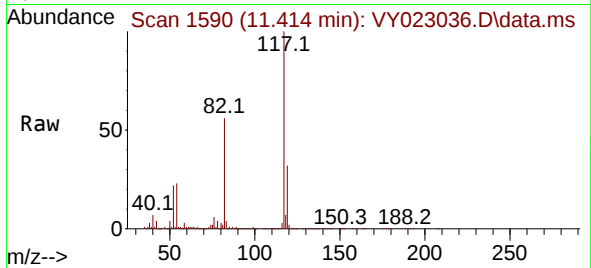




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY023036.D
Acq: 21 Jul 2025 18:54

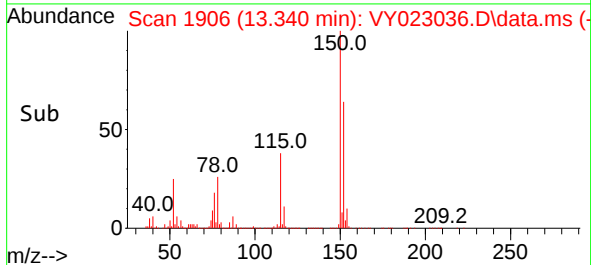
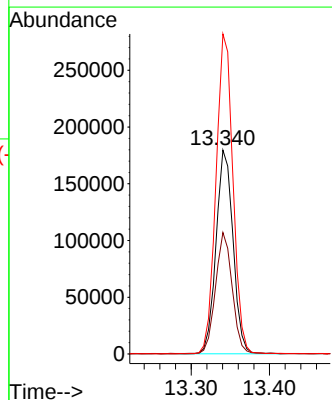
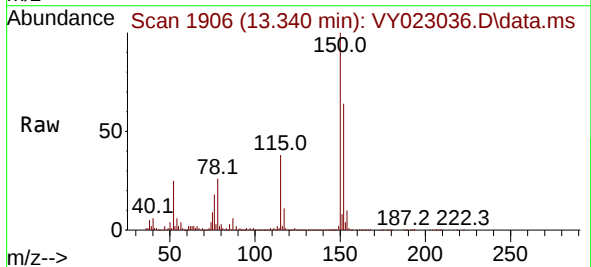
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

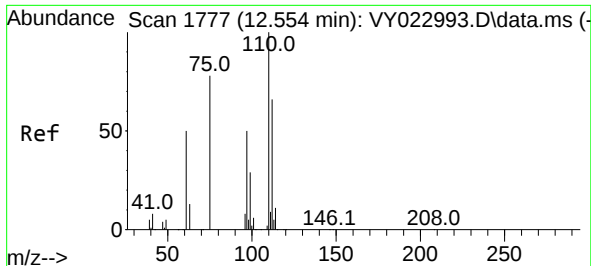
Tgt Ion:117 Resp: 567438
Ion Ratio Lower Upper
117 100
82 56.4 44.3 66.5
119 32.0 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023036.D
Acq: 21 Jul 2025 18:54

Tgt Ion:152 Resp: 271419
Ion Ratio Lower Upper
152 100
115 58.0 29.4 88.2
150 156.3 0.0 350.0

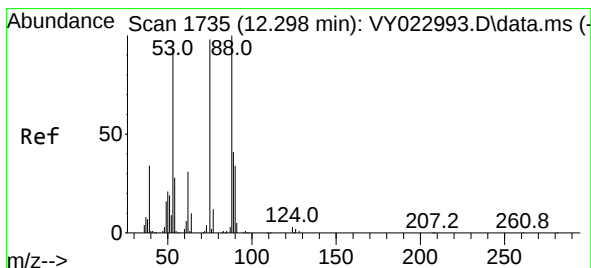
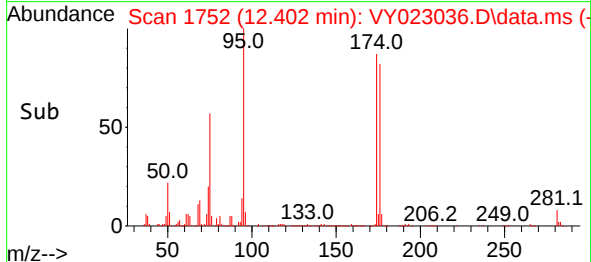
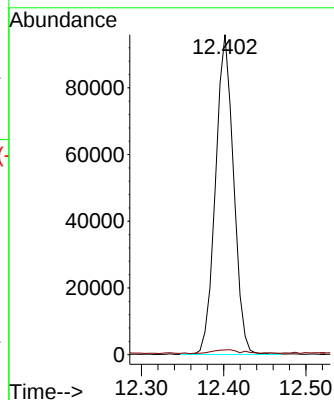
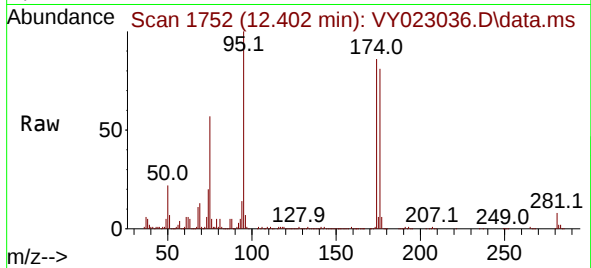




#76
1,2,3-Trichloropropane
Concen: 43.306 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY023036.D
Acq: 21 Jul 2025 18:54

Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

Tgt Ion: 75 Resp: 146465
Ion Ratio Lower Upper
75 100
77 2.1 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 128.985 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY023036.D
Acq: 21 Jul 2025 18:54

Tgt Ion: 75 Resp: 146465
Ion Ratio Lower Upper
75 100
53 0.1 76.1 114.1#
89 0.2 36.1 54.1#

