

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112425\
 Data File : VX048669.D
 Acq On : 24 Nov 2025 17:10
 Operator : JC/MD
 Sample : Q3711-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 72-12017

Quant Time: Nov 26 00:28:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X110725W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 08 05:08:11 2025
 Response via : Initial Calibration

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

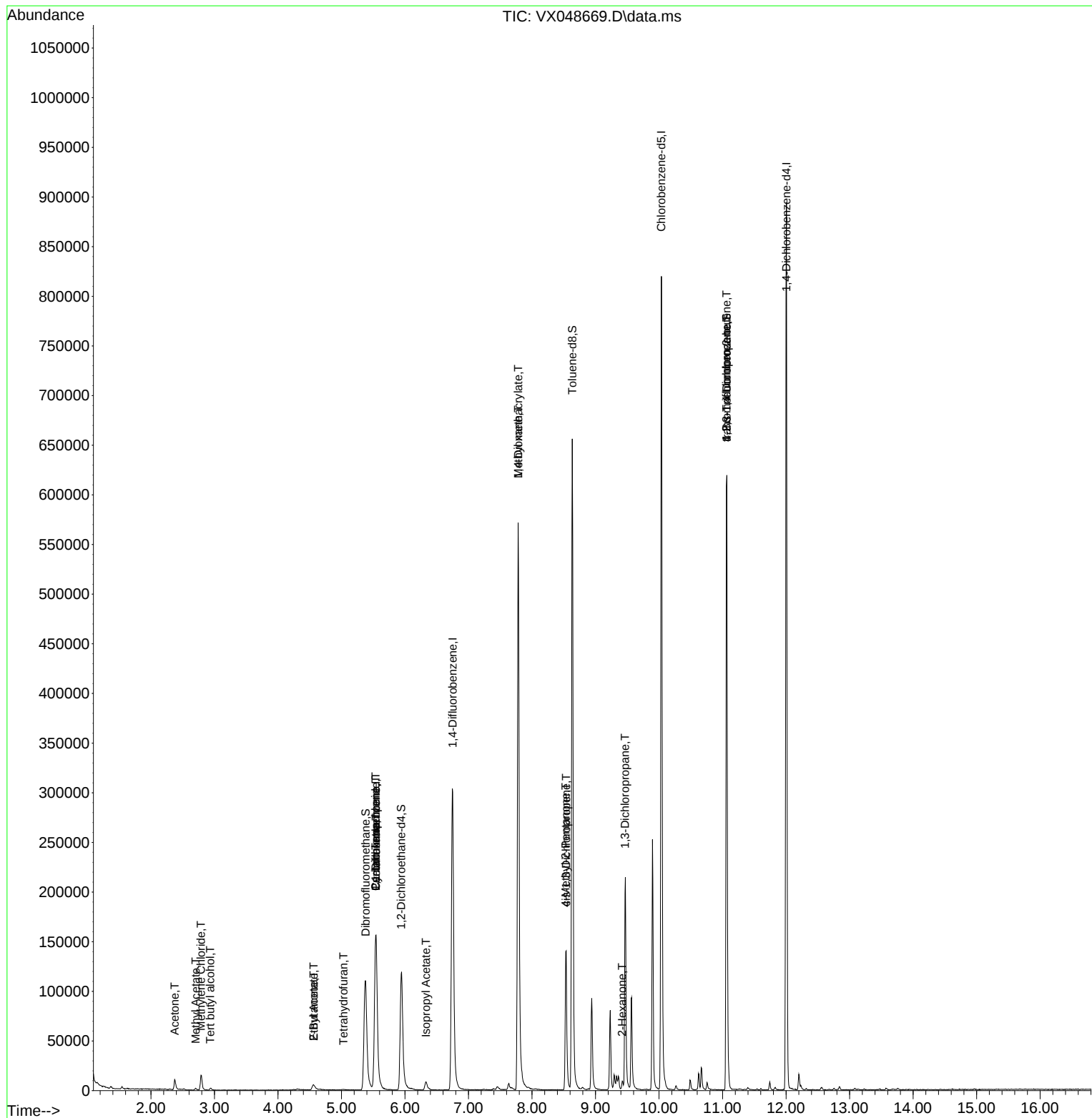
Internal Standards						
1) Pentafluorobenzene	5.544	168	167033	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	359372	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	398811	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	205142	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	133131	57.200	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 114.400%			
35) Dibromofluoromethane	5.379	113	111706	41.069	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 82.140%			
50) Toluene-d8	8.635	98	421317	49.666	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.340%			
62) 4-Bromofluorobenzene	11.061	95	181824	57.514	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 115.020%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	2.934	59	1945	4.410	ug/l #	78
16) Acetone	2.373	43	12956	11.760	ug/l	97
18) Methyl Acetate	2.703	43	2673	0.883	ug/l	94
20) Methylene Chloride	2.788	84	7975	3.521	ug/l	96
25) 2-Butanone	4.562	43	11084	6.801	ug/l	100
29) Tetrahydrofuran	5.032	42	568	0.489	ug/l #	35
31) Cyclohexane	5.544	56	3371	1.079	ug/l #	5
36) 1,1-Dichloropropene	5.538	75	12971	3.561	ug/l #	50
37) Ethyl Acetate	4.562	43	11084	2.162	ug/l #	71
38) Carbon Tetrachloride	5.538	117	17632	4.253	ug/l #	18
43) Isopropyl Acetate	6.330	43	12703	1.763	ug/l	98
48) Methyl methacrylate	7.781	41	54221	16.925	ug/l #	42
49) 1,4-Dioxane	7.781	88	64	1.311	ug/l #	1
51) 4-Methyl-2-Pentanone	8.531	43	53457	13.031	ug/l #	48
54) cis-1,3-Dichloropropene	8.537	75	26371	6.544	ug/l #	60
57) 1,3-Dichloropropane	9.464	76	1907	0.461	ug/l #	42
59) 2-Hexanone	9.421	43	6091	1.996	ug/l	89
76) 1,2,3-Trichloropropane	11.061	75	91080	18.429	ug/l #	30
81) trans-1,4-Dichloro-2-b...	11.061	75	91080	52.713	ug/l #	12

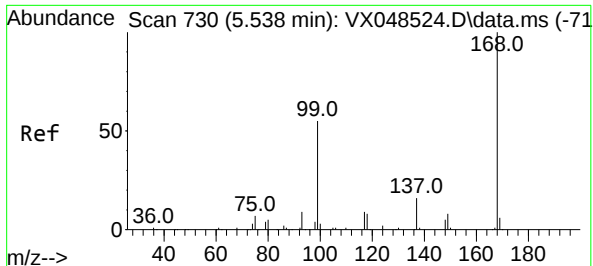
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 08 05:08:11 2025
Response via : Initial Calibration

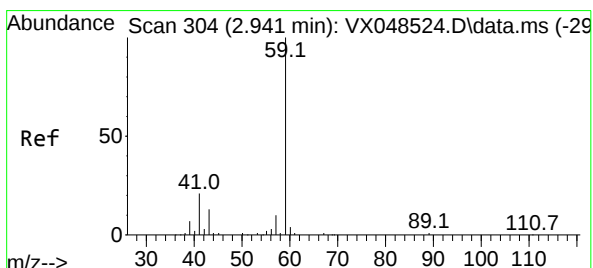
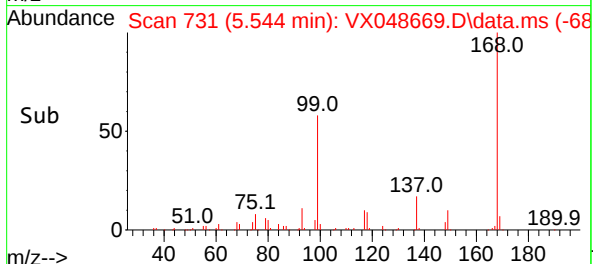
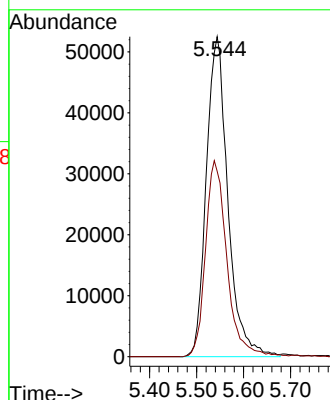
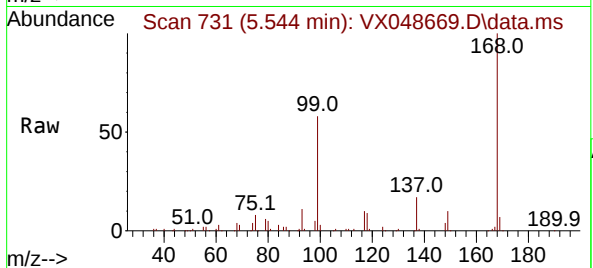




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

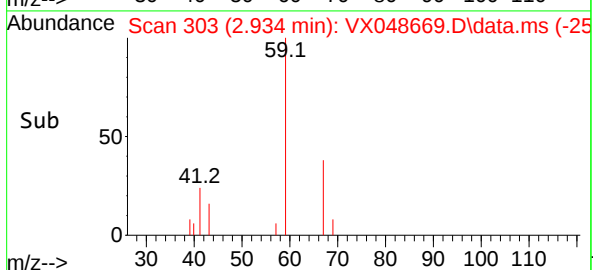
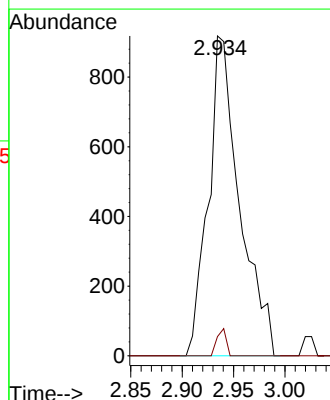
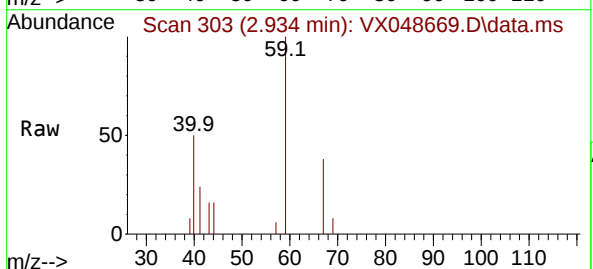
Instrument :
MSVOA_X
ClientSampleId :
72-12017

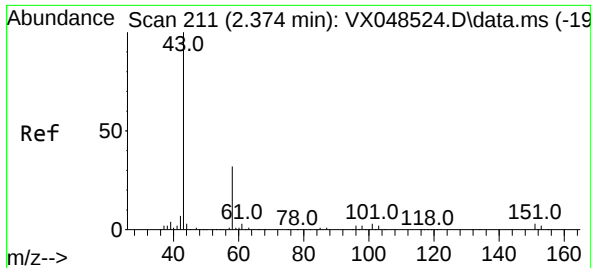
Tgt Ion:168 Resp: 167033
Ion Ratio Lower Upper
168 100
99 57.9 45.2 67.8



#11
Tert butyl alcohol
Concen: 4.410 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.006 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

Tgt Ion: 59 Resp: 1945
Ion Ratio Lower Upper
59 100
57 2.5 8.6 13.0#

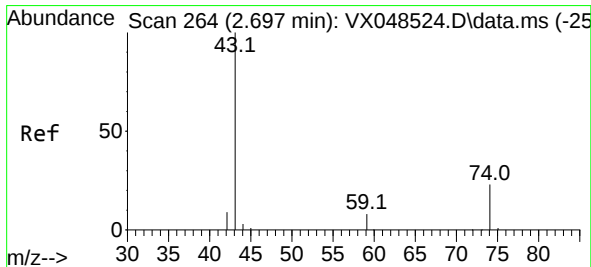
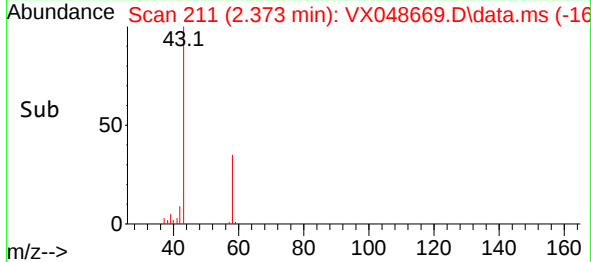
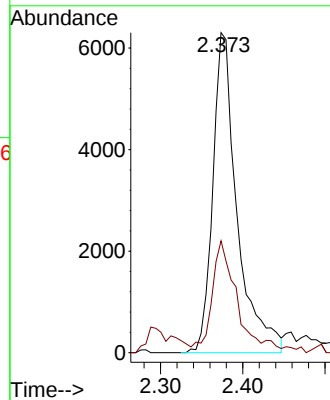
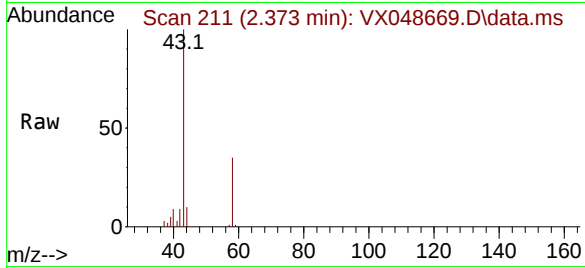




#16
Acetone
Concen: 11.760 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

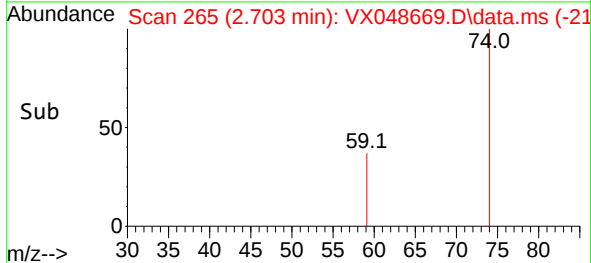
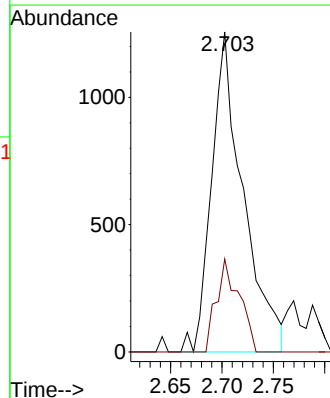
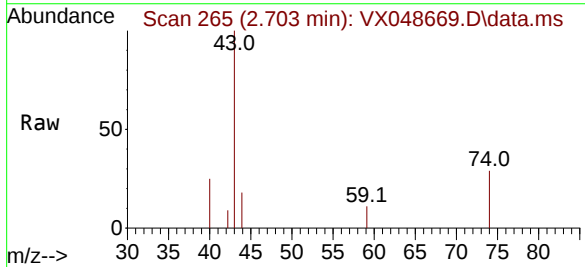
Instrument :
MSVOA_X
ClientSampleId :
72-12017

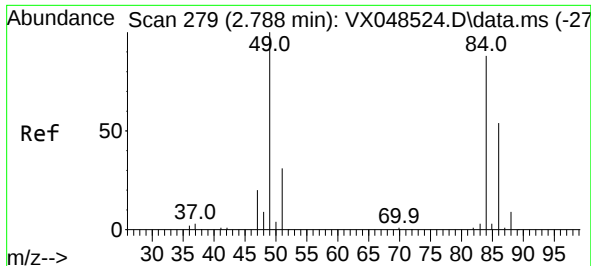
Tgt Ion: 43 Resp: 12956
Ion Ratio Lower Upper
43 100
58 33.6 25.8 38.6



#18
Methyl Acetate
Concen: 0.883 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

Tgt Ion: 43 Resp: 2673
Ion Ratio Lower Upper
43 100
74 21.0 19.1 28.7

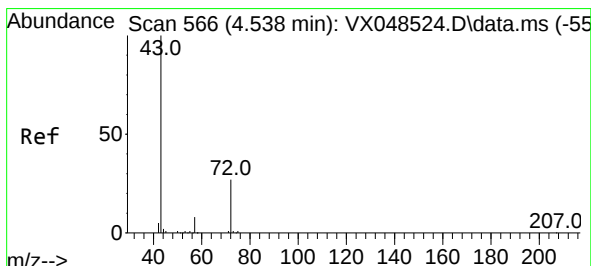
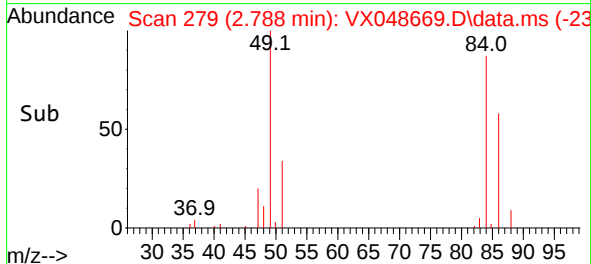
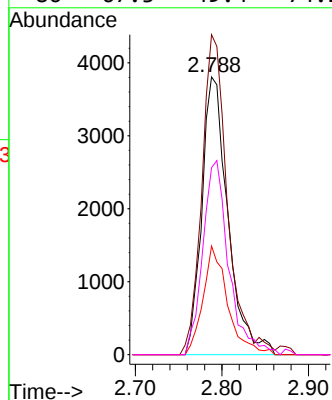
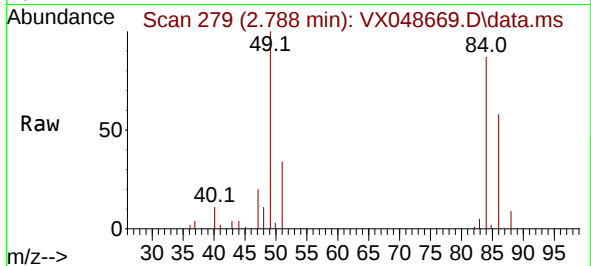




#20
Methylene Chloride
Concen: 3.521 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

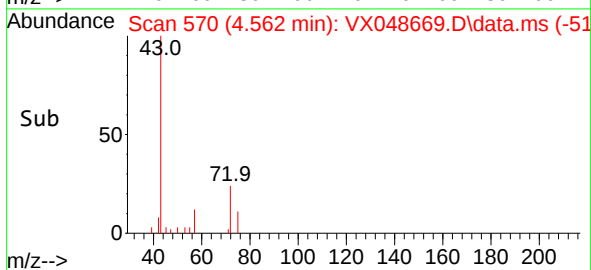
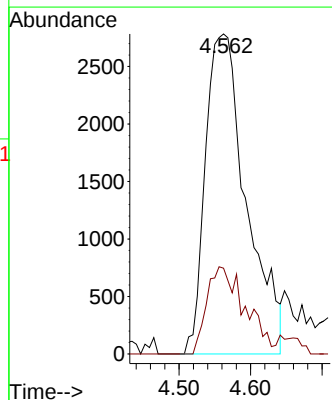
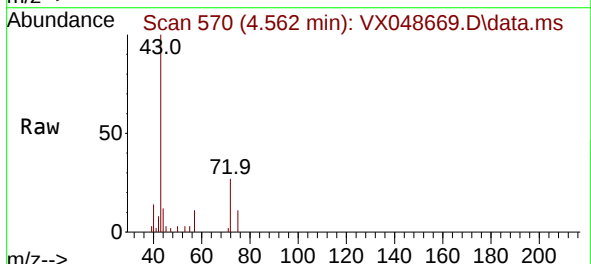
Instrument :
MSVOA_X
ClientSampleId :
72-12017

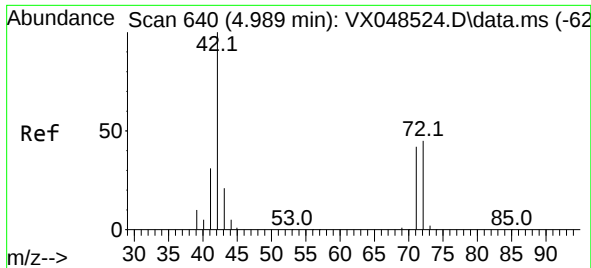
Tgt Ion:	84	Resp:	7975
Ion	Ratio	Lower	Upper
84	100		
49	115.2	91.2	136.8
51	39.1	28.3	42.5
86	67.3	49.4	74.2



#25
2-Butanone
Concen: 6.801 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.024 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

Tgt Ion:	43	Resp:	11084
Ion	Ratio	Lower	Upper
43	100		
72	26.8	21.5	32.3

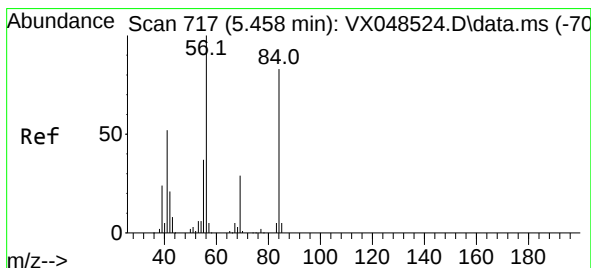
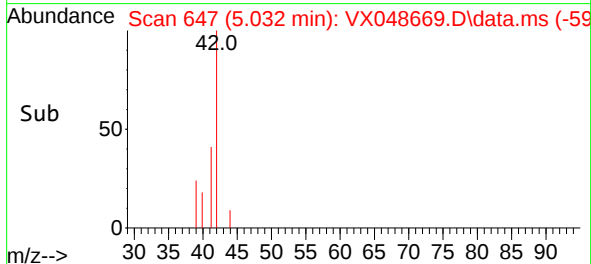
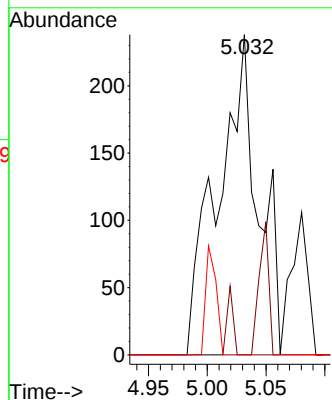
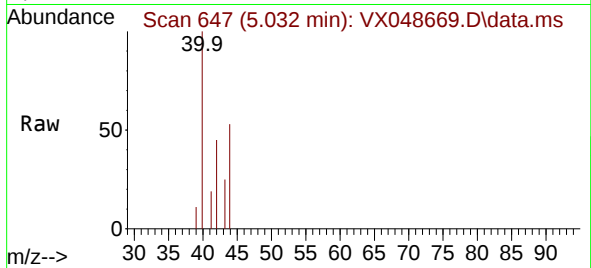




#29
Tetrahydrofuran
Concen: 0.489 ug/l
RT: 5.032 min Scan# 640
Delta R.T. 0.043 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

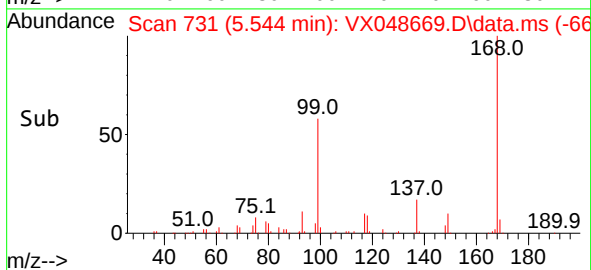
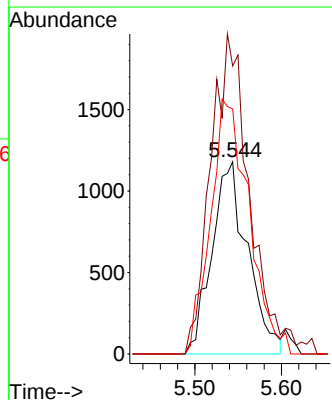
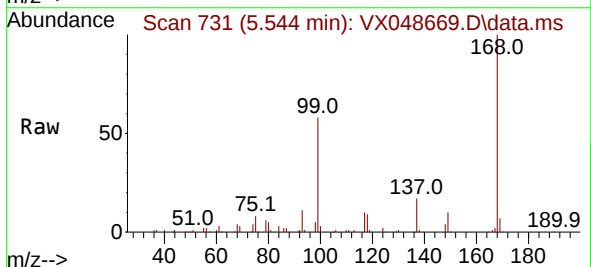
Instrument :
MSVOA_X
ClientSampleId :
72-12017

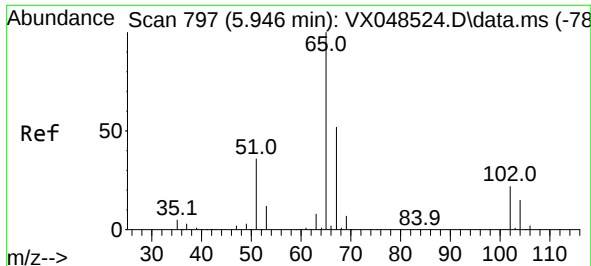
Tgt Ion: 42 Resp: 568
Ion Ratio Lower Upper
42 100
72 3.3 36.3 54.5#
71 0.0 34.1 51.1#



#31
Cyclohexane
Concen: 1.079 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.085 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

Tgt Ion: 56 Resp: 3371
Ion Ratio Lower Upper
56 100
69 150.0 23.4 35.2#
84 127.5 66.3 99.5#

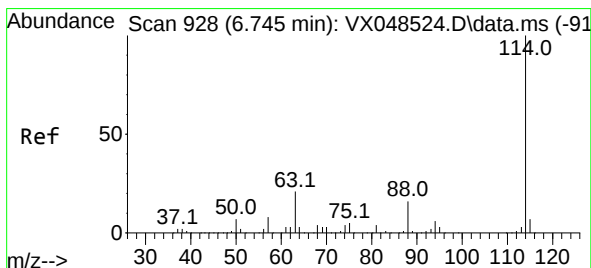
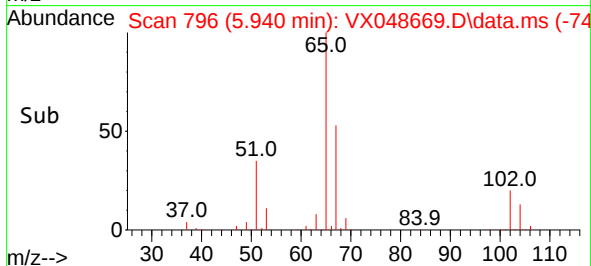
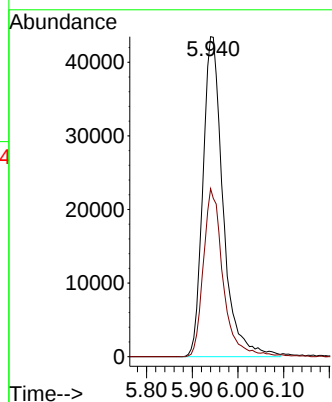
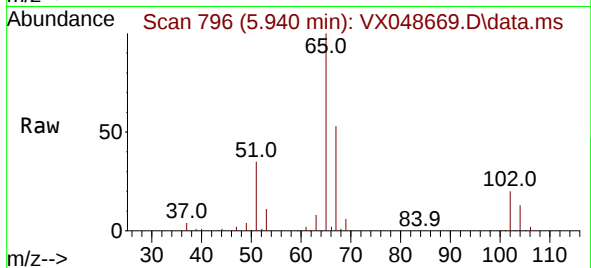




#33
 1,2-Dichloroethane-d4
 Concen: 57.200 ug/l
 RT: 5.940 min Scan# 797
 Delta R.T. -0.006 min
 Lab File: VX048669.D
 Acq: 24 Nov 2025 17:10

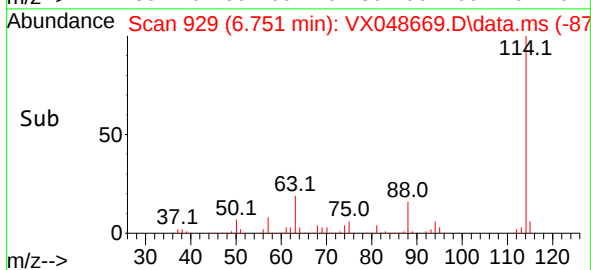
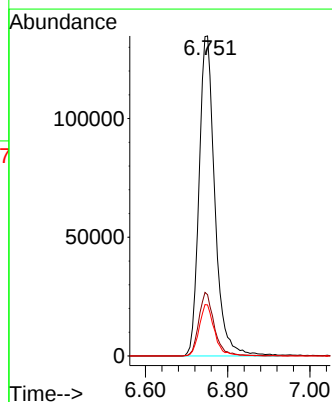
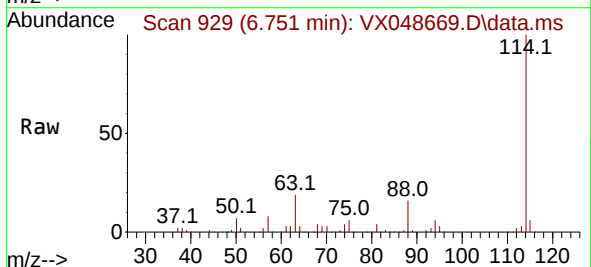
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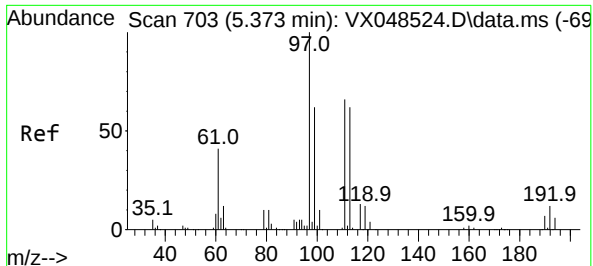
Tgt Ion: 65 Resp: 133131
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.751 min Scan# 929
 Delta R.T. 0.006 min
 Lab File: VX048669.D
 Acq: 24 Nov 2025 17:10

Tgt Ion: 114 Resp: 359372
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 41.2
 88 16.0 0.0 32.2





#35

Dibromofluoromethane

Concen: 41.069 ug/l

RT: 5.379 min Scan# 703

Delta R.T. 0.006 min

Lab File: VX048669.D

Acq: 24 Nov 2025 17:10

Instrument :

MSVOA_X

ClientSampleId :

72-12017

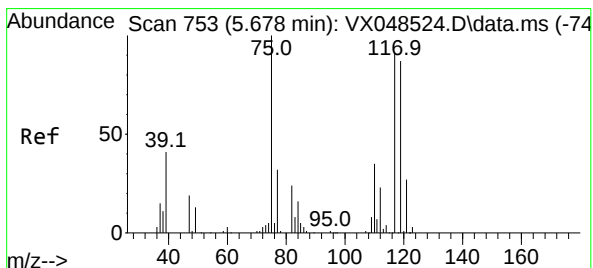
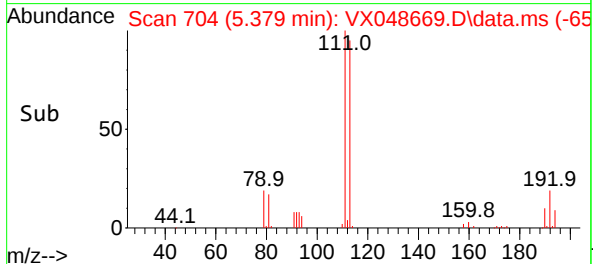
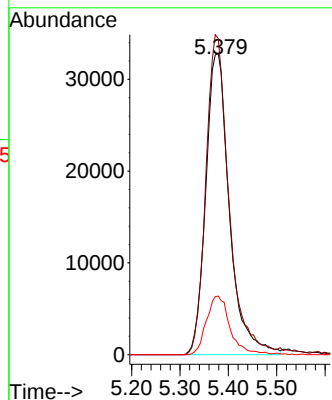
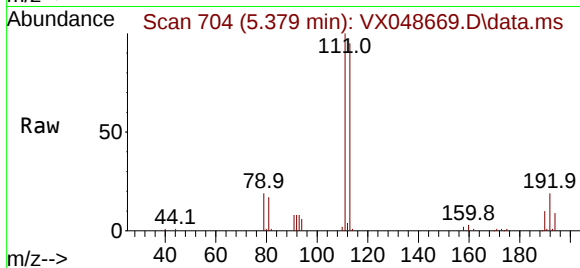
Tgt Ion:113 Resp: 111706

Ion Ratio Lower Upper

113 100

111 103.4 81.9 122.9

192 19.4 15.8 23.6



#36

1,1-Dichloropropene

Concen: 3.561 ug/l

RT: 5.538 min Scan# 730

Delta R.T. -0.140 min

Lab File: VX048669.D

Acq: 24 Nov 2025 17:10

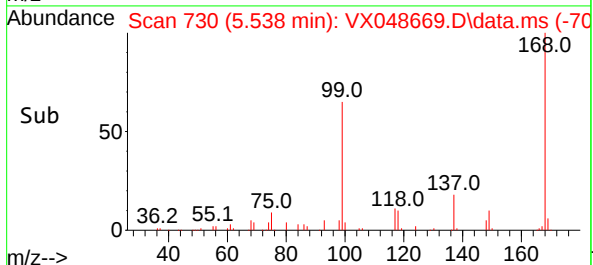
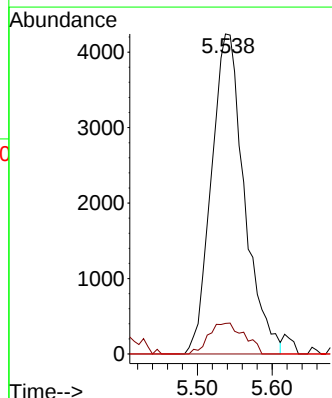
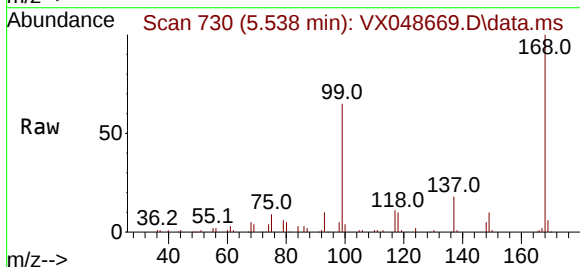
Tgt Ion: 75 Resp: 12971

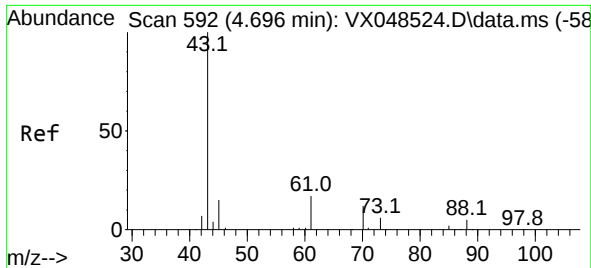
Ion Ratio Lower Upper

75 100

110 10.4 18.4 55.4#

77 0.0 24.6 37.0#

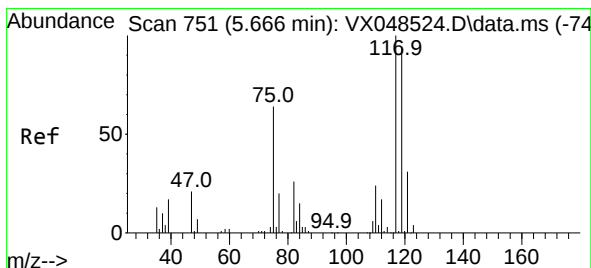
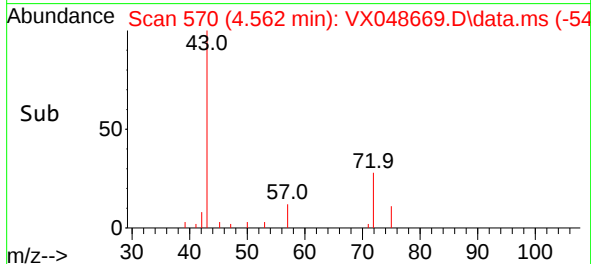
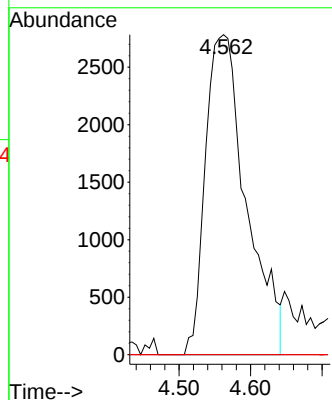
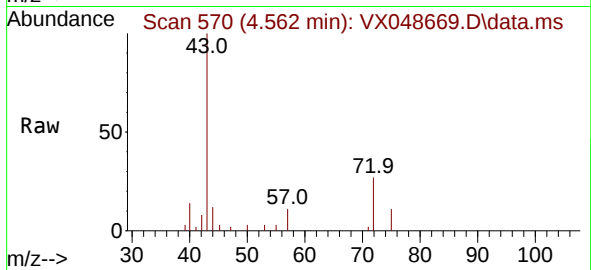




#37
Ethyl Acetate
Concen: 2.162 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.134 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

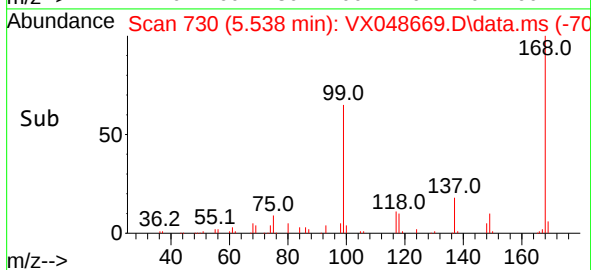
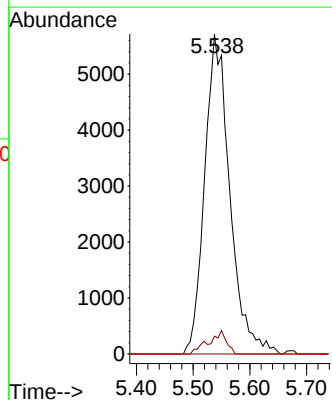
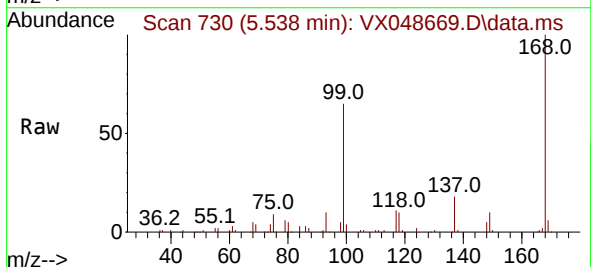
Instrument :
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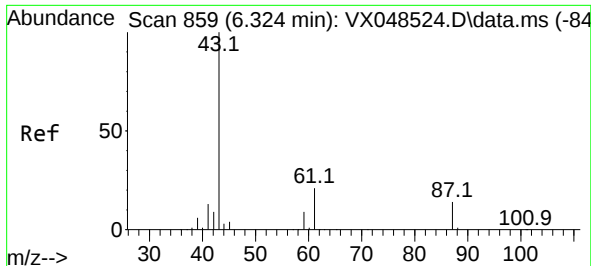
Tgt Ion: 43 Resp: 11084
Ion Ratio Lower Upper
43 100
61 0.0 9.7 14.5#
70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 4.253 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.128 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

Tgt Ion: 117 Resp: 17632
Ion Ratio Lower Upper
117 100
119 5.6 74.5 111.7#
121 0.0 24.8 37.2#

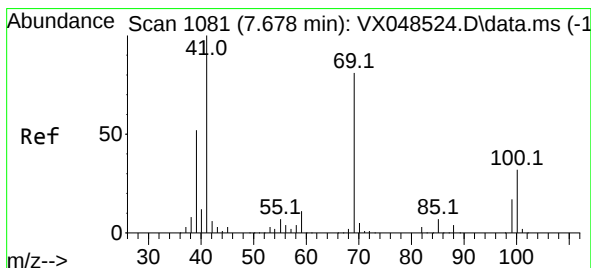
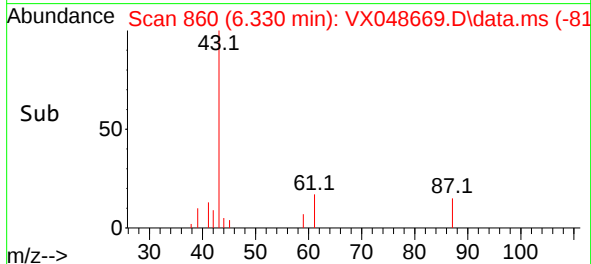
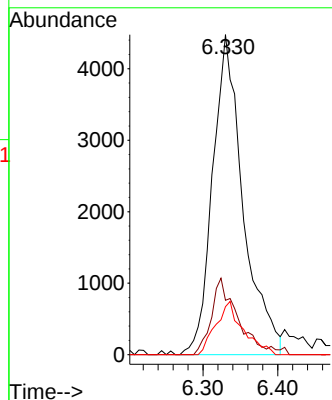
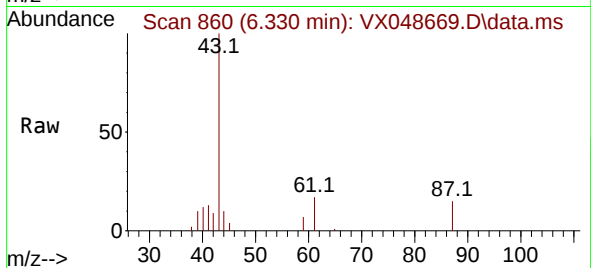




#43
Isopropyl Acetate
Concen: 1.763 ug/l
RT: 6.330 min Scan# 80
Delta R.T. 0.006 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

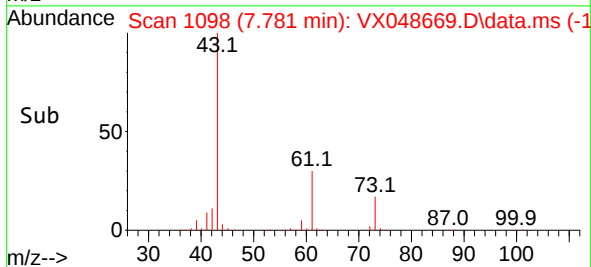
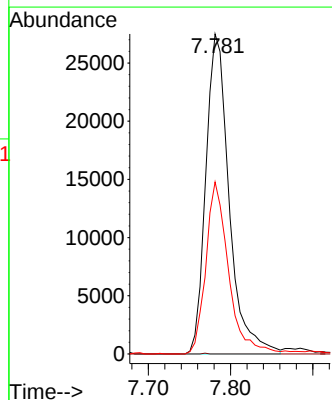
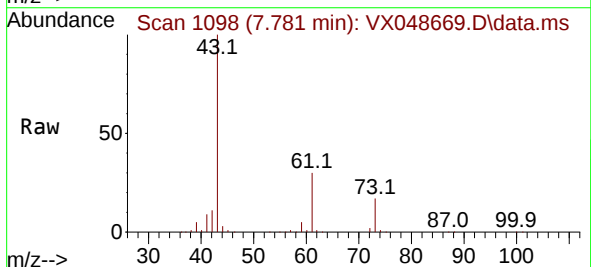
Instrument :
MSVOA_X
ClientSampleId :
72-12017

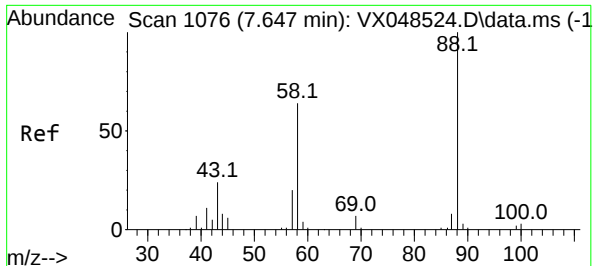
Tgt Ion: 43 Resp: 12703
Ion Ratio Lower Upper
43 100
61 21.1 16.2 24.4
87 14.9 10.9 16.3



#48
Methyl methacrylate
Concen: 16.925 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.103 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

Tgt Ion: 41 Resp: 54221
Ion Ratio Lower Upper
41 100
69 0.0 67.9 101.9#
39 52.2 42.2 63.2





#49

1,4-Dioxane

Concen: 1.311 ug/l

RT: 7.781 min Scan# 1098

Delta R.T. 0.134 min

Lab File: VX048669.D

Acq: 24 Nov 2025 17:10

Instrument :

MSVOA_X

ClientSampleId :

72-12017

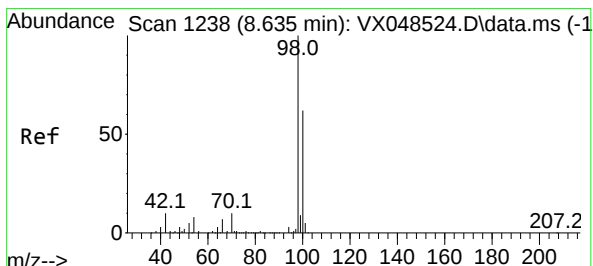
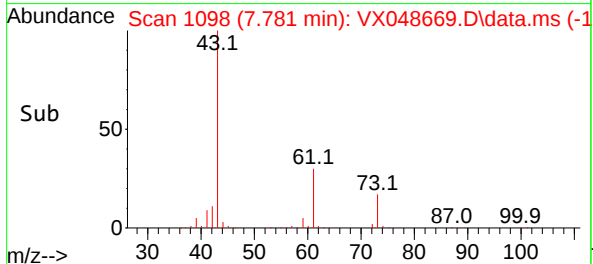
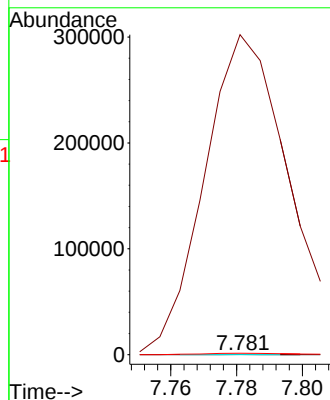
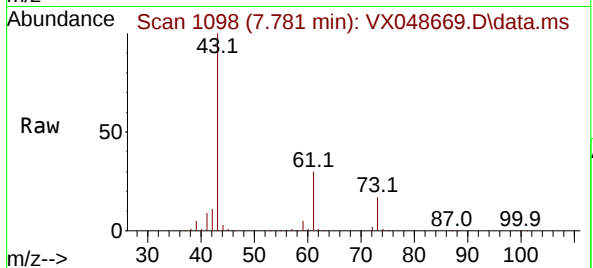
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 920243.8 25.1 37.7#

58 4298.4 56.7 85.1#



#50

Toluene-d8

Concen: 49.666 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048669.D

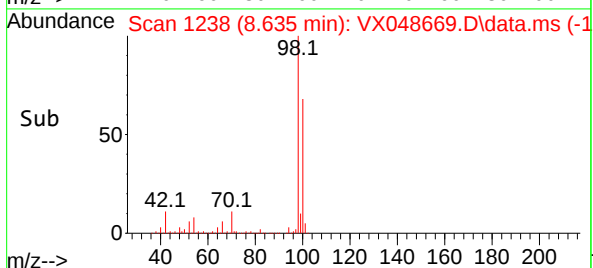
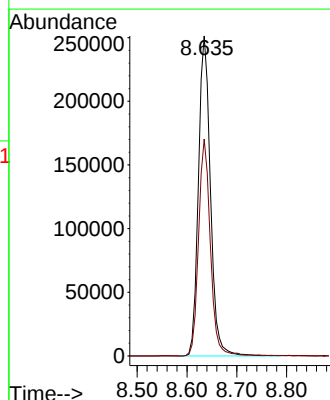
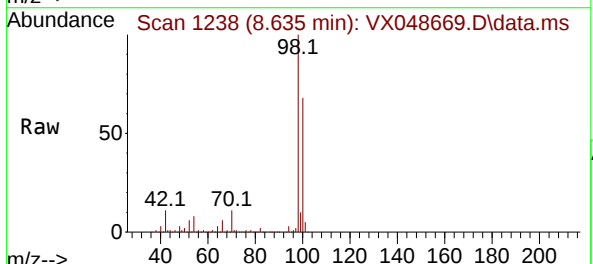
Acq: 24 Nov 2025 17:10

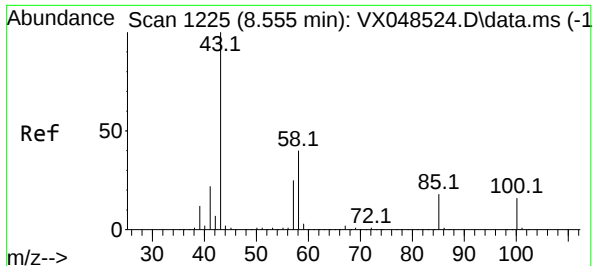
Tgt Ion: 98 Resp: 421317

Ion Ratio Lower Upper

98 100

100 66.4 53.6 80.4

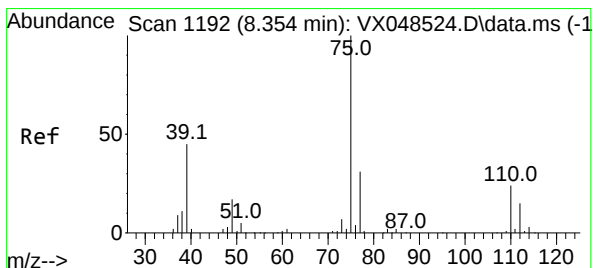
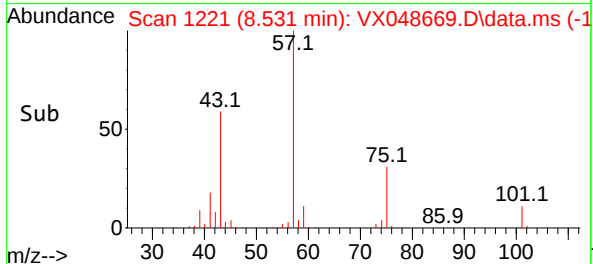
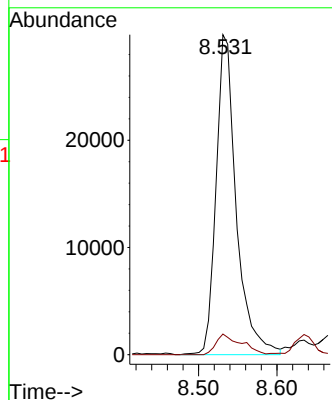
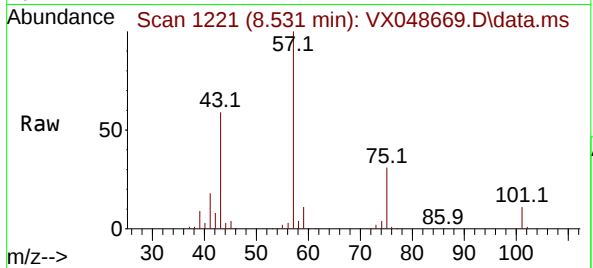




#51
4-Methyl-2-Pentanone
Concen: 13.031 ug/l
RT: 8.531 min Scan# 11
Delta R.T. -0.025 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

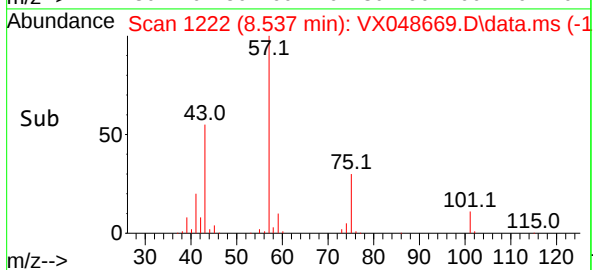
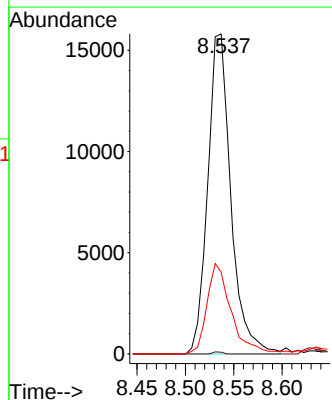
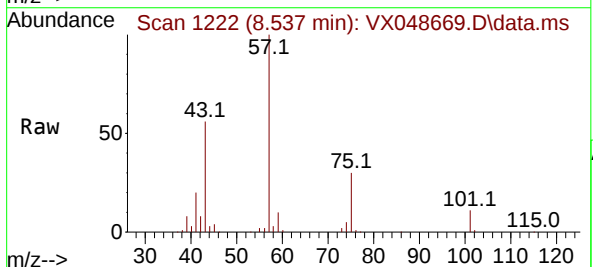
Instrument :
MSVOA_X
ClientSampleId :
72-12017

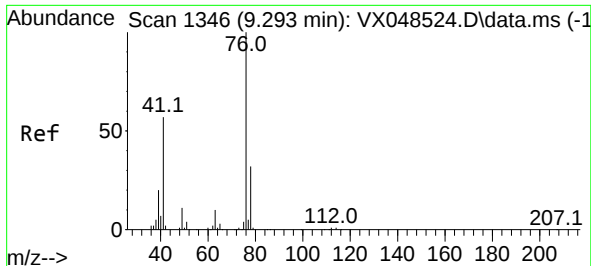
Tgt Ion: 43 Resp: 53457
Ion Ratio Lower Upper
43 100
58 8.1 32.3 48.5#



#54
cis-1,3-Dichloropropene
Concen: 6.544 ug/l
RT: 8.537 min Scan# 1222
Delta R.T. 0.183 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

Tgt Ion: 75 Resp: 26371
Ion Ratio Lower Upper
75 100
77 0.6 24.7 37.1#
39 25.5 36.1 54.1#





#57

1,3-Dichloropropane

Concen: 0.461 ug/l

RT: 9.464 min Scan# 1374

Delta R.T. 0.171 min

Lab File: VX048669.D

Acq: 24 Nov 2025 17:10

Instrument :

MSVOA_X

ClientSampleId :

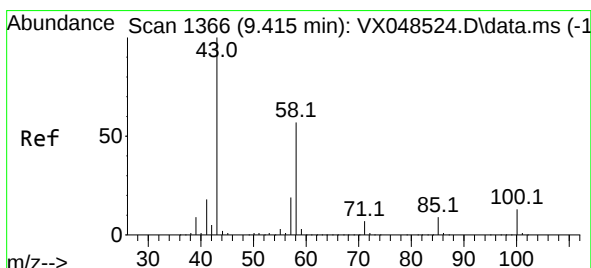
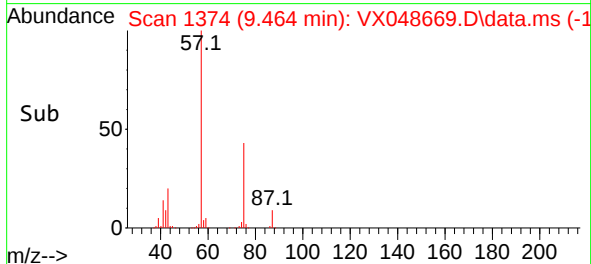
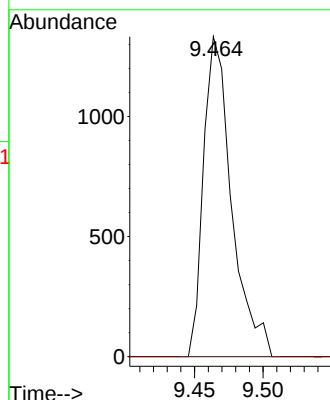
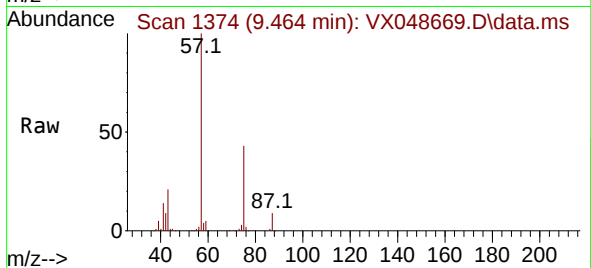
72-12017

Tgt Ion: 76 Resp: 1907

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 1.996 ug/l

RT: 9.421 min Scan# 1367

Delta R.T. 0.006 min

Lab File: VX048669.D

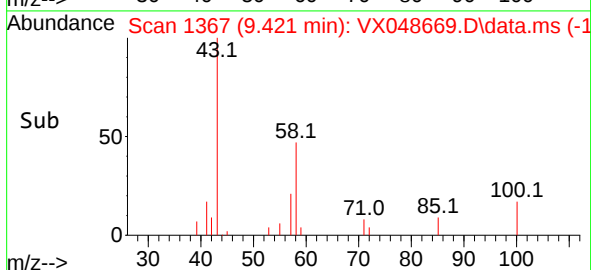
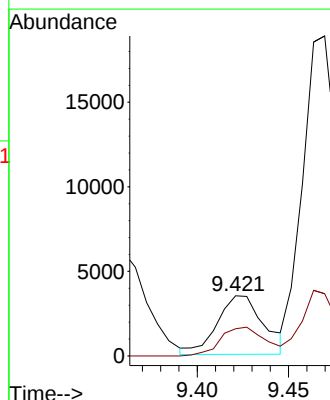
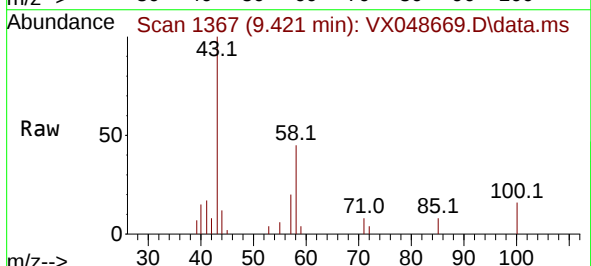
Acq: 24 Nov 2025 17:10

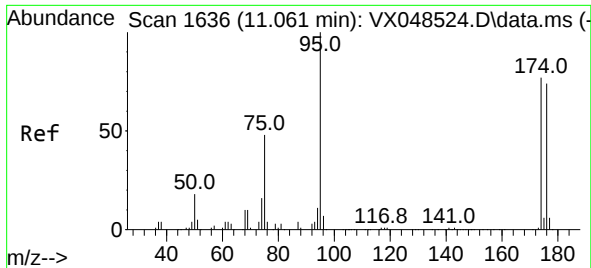
Tgt Ion: 43 Resp: 6091

Ion Ratio Lower Upper

43 100

58 48.0 28.1 84.2

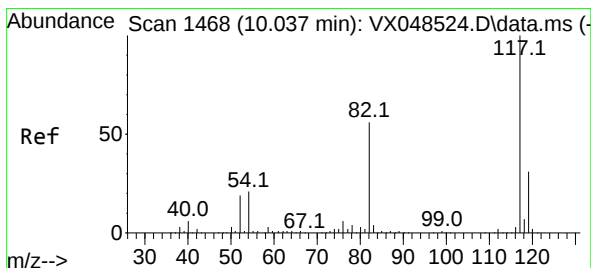
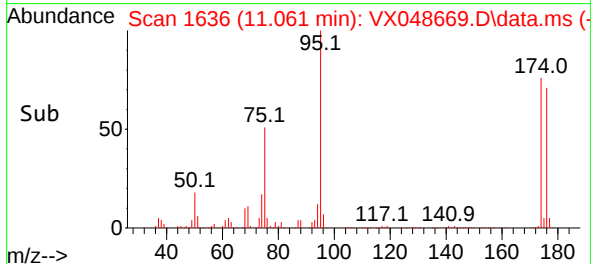
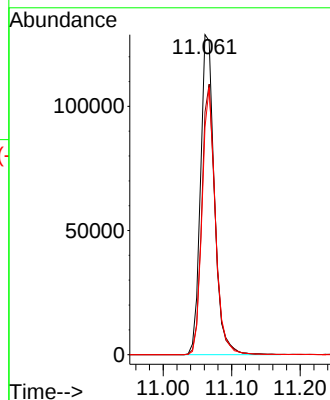
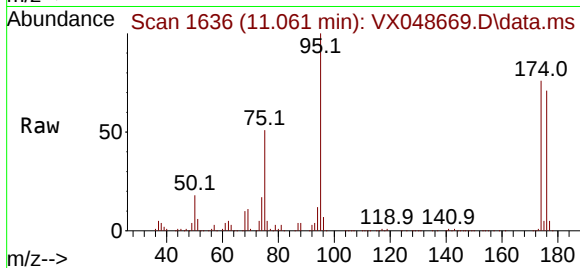




#62
4-Bromofluorobenzene
Concen: 57.514 ug/l
RT: 11.061 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

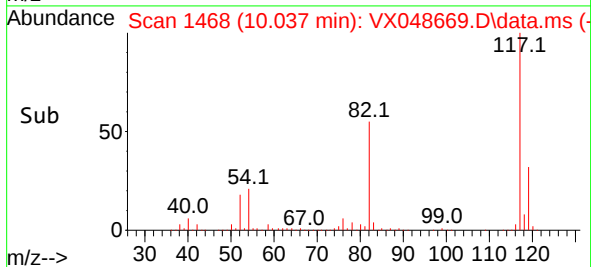
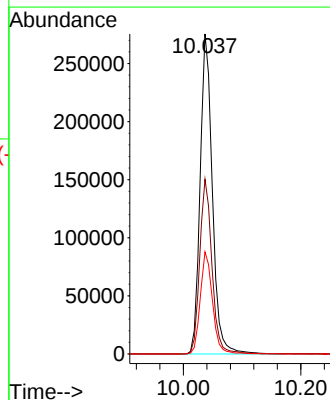
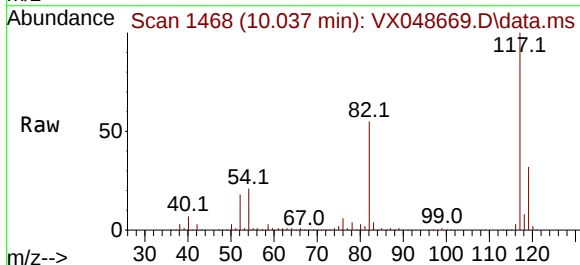
Instrument :
MSVOA_X
ClientSampleId :
72-12017

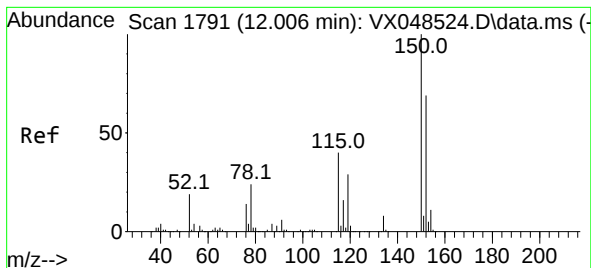
Tgt Ion: 95 Resp: 181824
Ion Ratio Lower Upper
95 100
174 82.0 0.0 161.8
176 80.1 0.0 153.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048669.D
Acq: 24 Nov 2025 17:10

Tgt Ion: 117 Resp: 398811
Ion Ratio Lower Upper
117 100
82 54.6 44.4 66.6
119 31.9 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048669.D

Acq: 24 Nov 2025 17:10

Instrument :

MSVOA_X

ClientSampleId :

72-12017

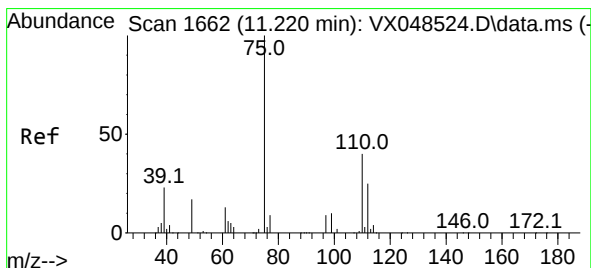
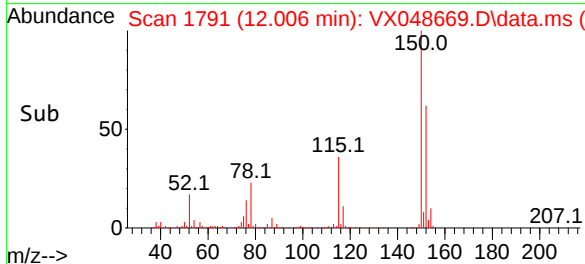
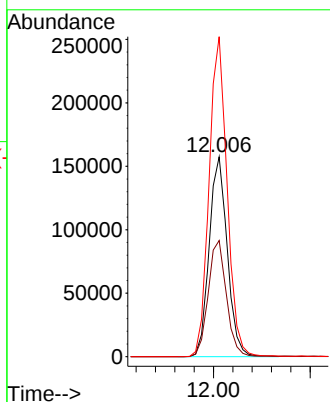
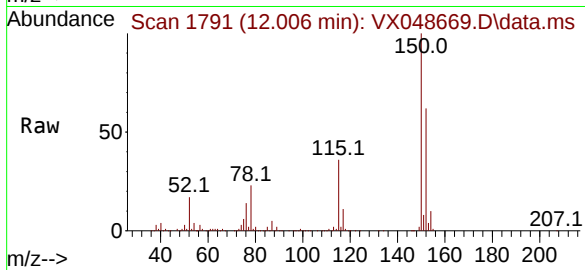
Tgt Ion:152 Resp: 205142

Ion Ratio Lower Upper

152 100

115 58.5 39.2 117.6

150 159.1 0.0 347.0



#76

1,2,3-Trichloropropane

Concen: 18.429 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX048669.D

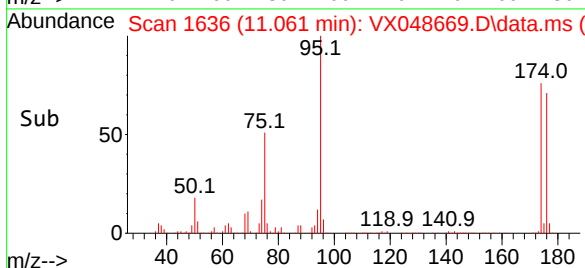
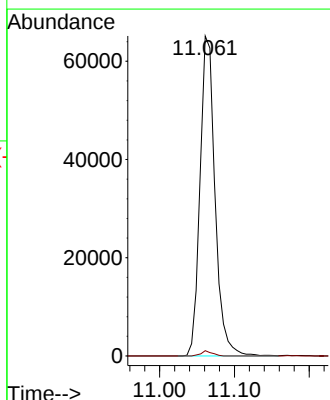
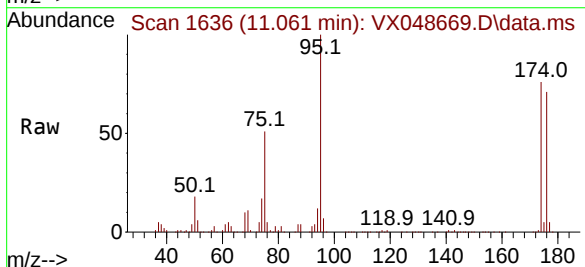
Acq: 24 Nov 2025 17:10

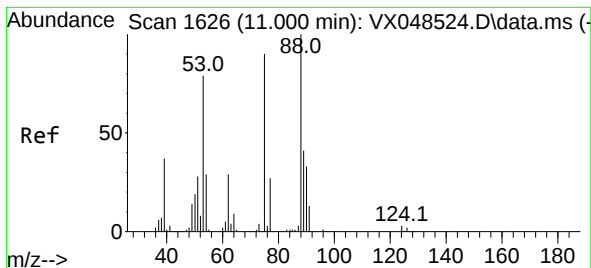
Tgt Ion: 75 Resp: 91080

Ion Ratio Lower Upper

75 100

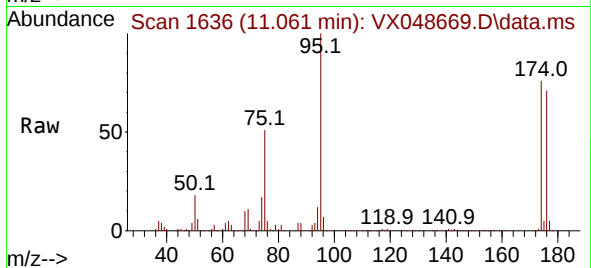
77 1.2 24.3 72.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 52.713 ug/l
 RT: 11.061 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX048669.D
 Acq: 24 Nov 2025 17:10

Instrument :
 MSVOA_X
 ClientSampleId :
 72-12017



Tgt Ion: 75 Resp: 91080
 Ion Ratio Lower Upper
 75 100
 53 0.1 72.4 108.6#
 89 0.0 43.6 65.4#

