

Data Path : Z:\voasrv\HPCHEM1\MSVOA_R\Data\VR081125\
 Data File : VR026738.D
 Acq On : 11 Aug 2025 14:42
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5mL/MSVOA_R/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :

Quant Time: Aug 12 02:48:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_R\methods\82R080425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 05 02:27:49 2025
 Response via : Initial Calibration

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

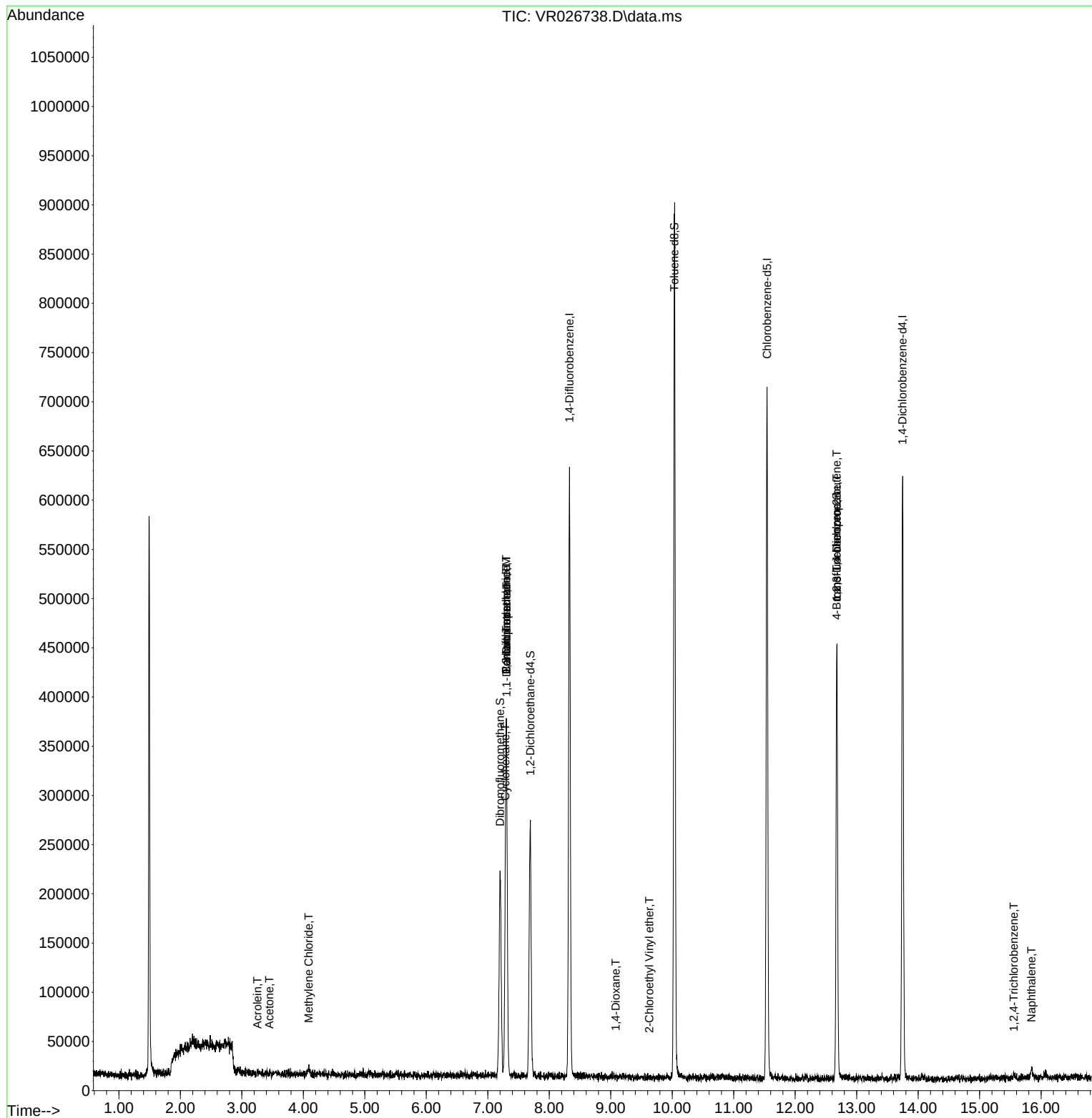
Internal Standards						
1) Pentafluorobenzene	7.301	168	289861	50.000	ug/l	0.00
33) 1,4-Difluorobenzene	8.328	114	528523	50.000	ug/l	0.00
62) Chlorobenzene-d5	11.544	117	416063	50.000	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	13.745	152	193086	50.000	ug/l	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.693	65	178692	48.707	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.420%
34) Dibromofluoromethane	7.199	113	146781	44.901	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	89.800%
49) Toluene-d8	10.035	98	598149	51.074	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.140%
61) 4-Bromofluorobenzene	12.673	95	153357	46.038	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	92.080%
Target Compounds						
					Qvalue	
13) Acrolein	3.252	56	361	0.430	ug/l	95
16) Acetone	3.447	43	479	0.278	ug/l #	34
20) Methylene Chloride	4.086	84	2793	0.684	ug/l #	82
30) Cyclohexane	7.285	56	2299	0.395	ug/l #	79
35) 1,1-Dichloropropene	7.305	75	24927	6.044	ug/l #	47
37) Carbon Tetrachloride	7.301	117	28922	8.611	ug/l #	23
41) 1,2-Dichloroethane	7.301	62	977	0.259	ug/l #	1
48) 1,4-Dioxane	9.082	88	155	2.769	ug/l	87
57) 2-Chloroethyl Vinyl ether	9.625	63	105	0.416	ug/l #	59
75) 1,2,3-Trichloropropane	12.676	75	77727	24.285	ug/l #	100
80) trans-1,4-Dichloro-2-b...	12.676	75	77727	70.732	ug/l #	16
92) 1,2,4-Trichlorobenzene	15.555	180	1108	0.316	ug/l	86
94) Naphthalene	15.843	128	5552	0.517	ug/l #	87

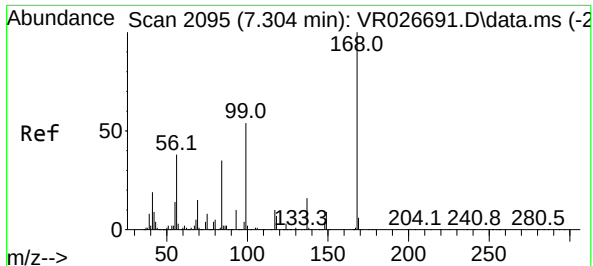
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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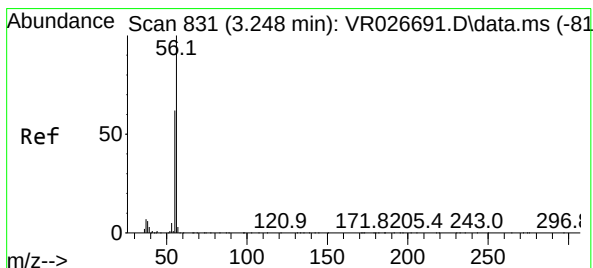
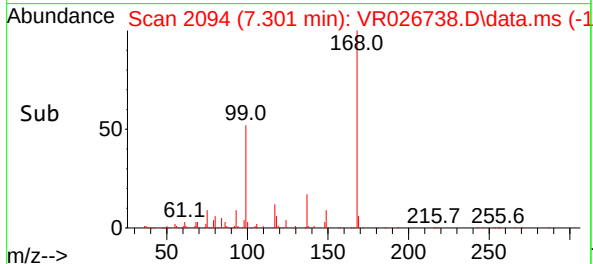
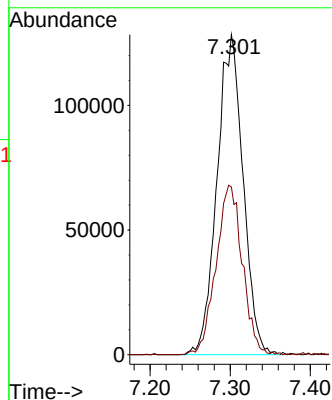
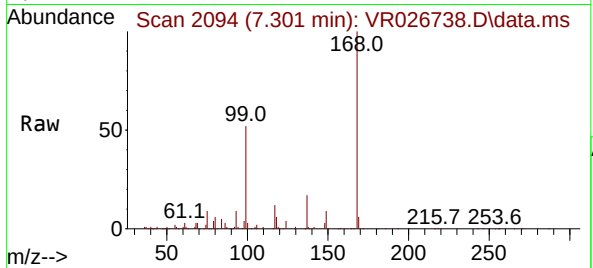




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.301 min Scan# 2095
Delta R.T. -0.003 min
Lab File: VR026738.D
Acq: 11 Aug 2025 14:42

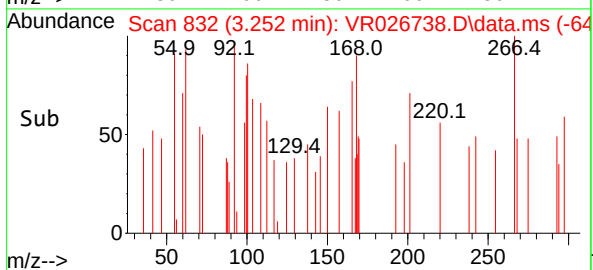
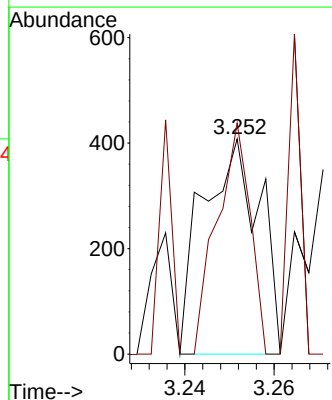
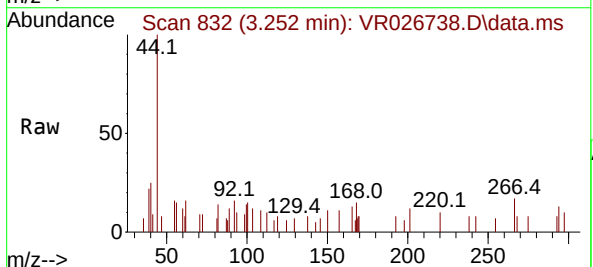
Instrument :
MSVOA_R
ClientSampleId :

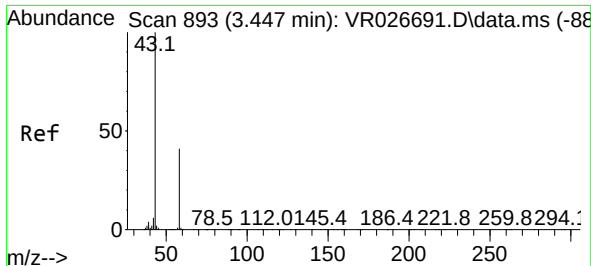
Tgt Ion:168 Resp: 289861
Ion Ratio Lower Upper
168 100
99 52.3 43.8 65.8



#13
Acrolein
Concen: 0.430 ug/l
RT: 3.252 min Scan# 832
Delta R.T. 0.003 min
Lab File: VR026738.D
Acq: 11 Aug 2025 14:42

Tgt Ion: 56 Resp: 361
Ion Ratio Lower Upper
56 100
55 63.2 53.8 80.8

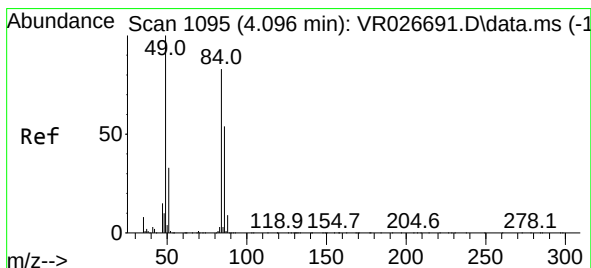
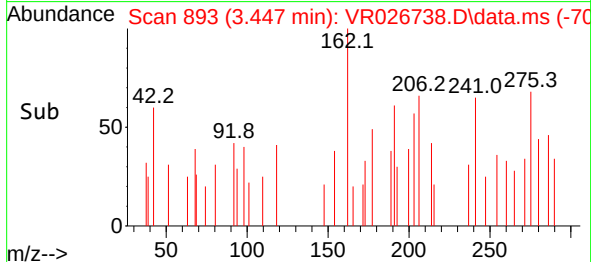
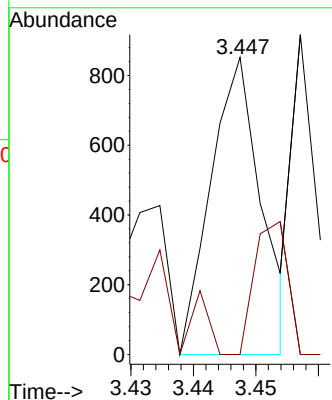
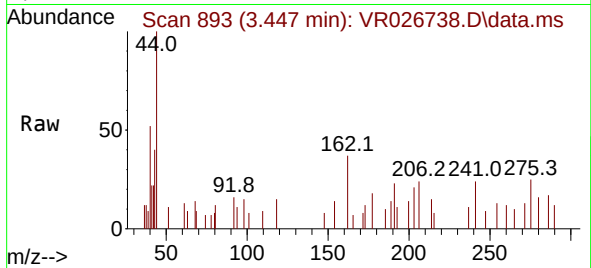




#16
Acetone
Concen: 0.278 ug/l
RT: 3.447 min Scan# 893
Delta R.T. 0.000 min
Lab File: VR026738.D
Acq: 11 Aug 2025 14:42

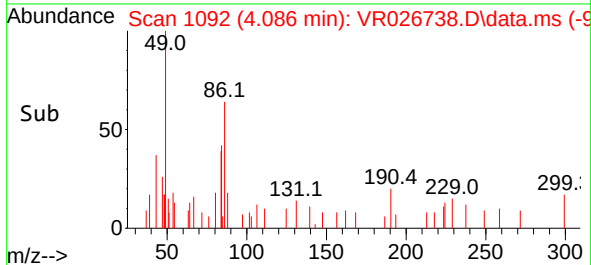
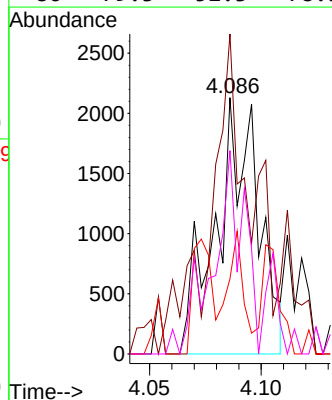
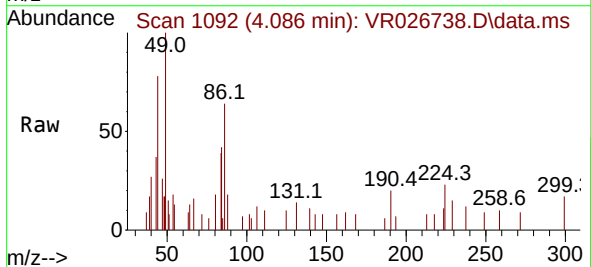
Instrument :
MSVOA_R
ClientSampleId :

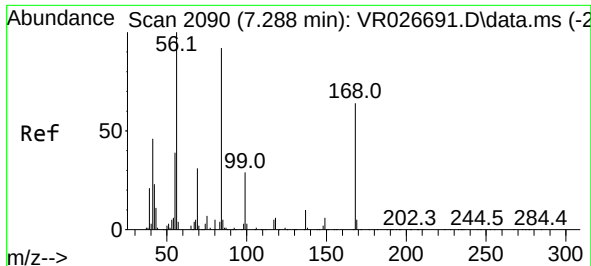
Tgt Ion: 43 Resp: 479
Ion Ratio Lower Upper
43 100
58 0.0 32.9 49.3#



#20
Methylene Chloride
Concen: 0.684 ug/l
RT: 4.086 min Scan# 1092
Delta R.T. -0.010 min
Lab File: VR026738.D
Acq: 11 Aug 2025 14:42

Tgt Ion: 84 Resp: 2793
Ion Ratio Lower Upper
84 100
49 98.7 96.2 144.4
51 29.3 31.8 47.6#
86 79.3 52.3 78.5#

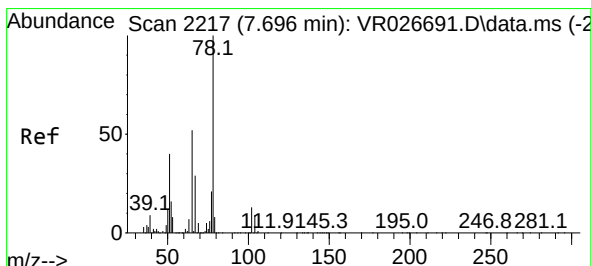
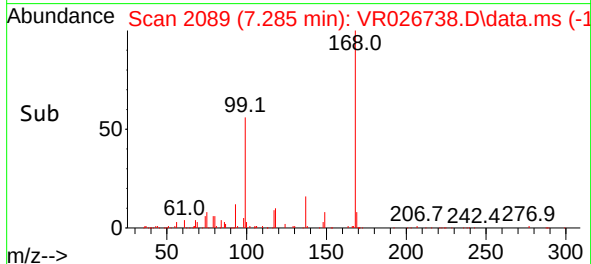
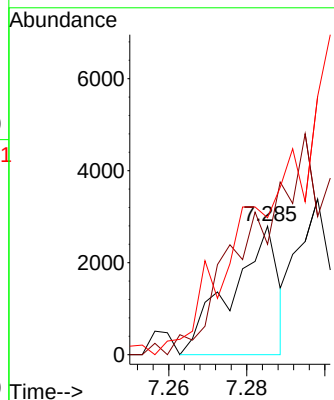
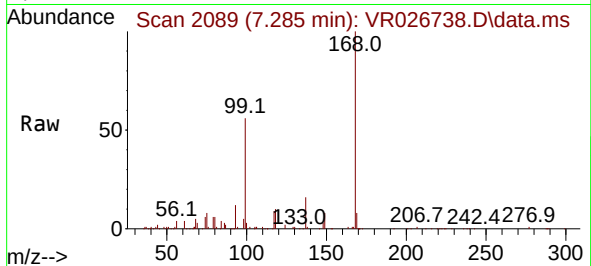




#30
Cyclohexane
Concen: 0.395 ug/l
RT: 7.285 min Scan# 2090
Delta R.T. -0.003 min
Lab File: VR026738.D
Acq: 11 Aug 2025 14:42

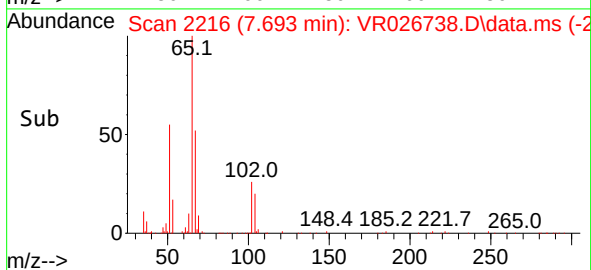
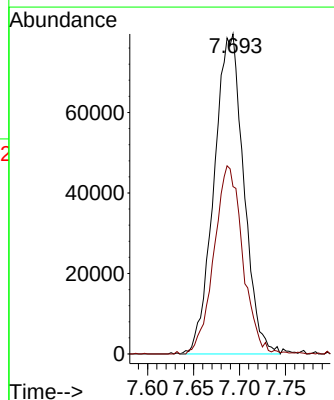
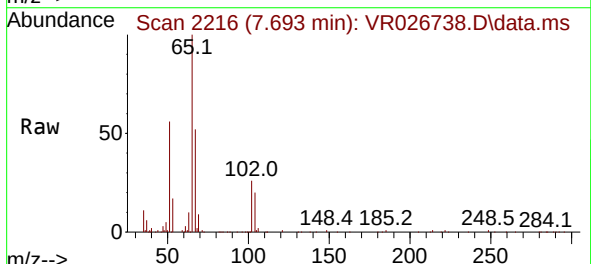
Instrument :
MSVOA_R
ClientSampleId :

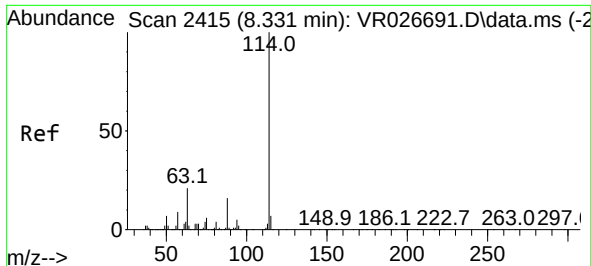
Tgt Ion: 56 Resp: 2299
Ion Ratio Lower Upper
56 100
69 70.3 24.8 37.2#
84 94.7 73.1 109.7



#32
1,2-Dichloroethane-d4
Concen: 48.707 ug/l
RT: 7.693 min Scan# 2216
Delta R.T. -0.003 min
Lab File: VR026738.D
Acq: 11 Aug 2025 14:42

Tgt Ion: 65 Resp: 178692
Ion Ratio Lower Upper
65 100
67 56.6 0.0 118.4





#33

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.328 min Scan# 2415

Delta R.T. -0.003 min

Lab File: VR026738.D

Acq: 11 Aug 2025 14:42

Instrument :

MSVOA_R

ClientSampleId :

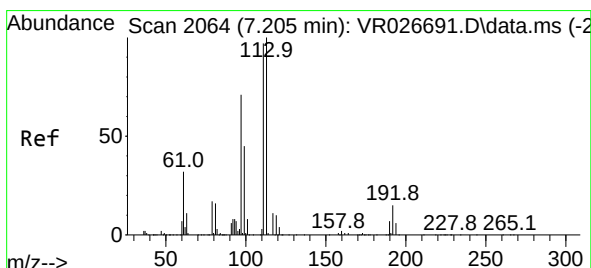
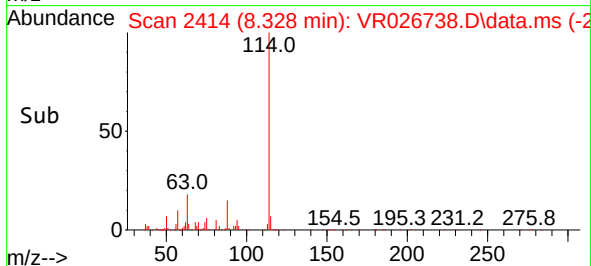
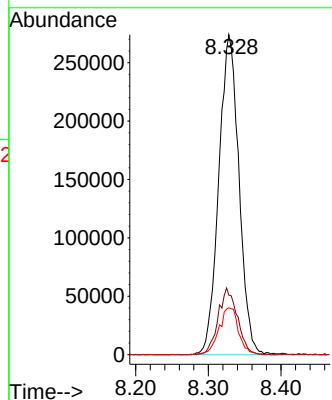
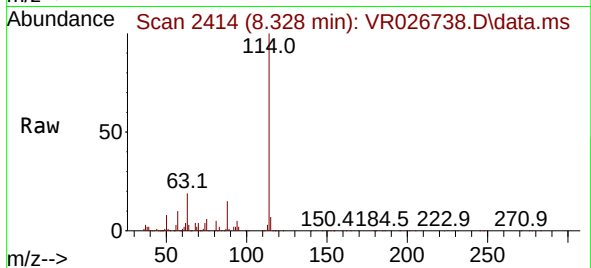
Tgt Ion:114 Resp: 528523

Ion Ratio Lower Upper

114 100

63 18.6 0.0 41.6

88 14.7 0.0 32.6



#34

Dibromofluoromethane

Concen: 44.901 ug/l

RT: 7.199 min Scan# 2062

Delta R.T. -0.006 min

Lab File: VR026738.D

Acq: 11 Aug 2025 14:42

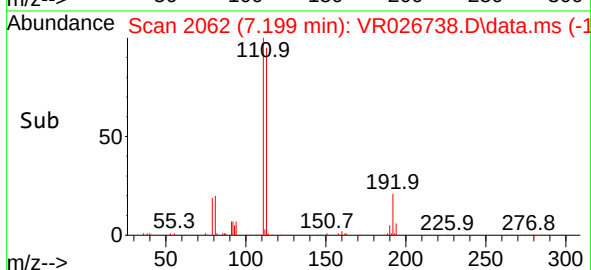
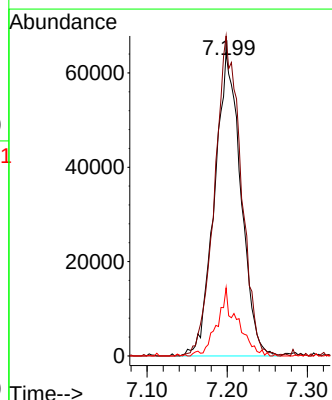
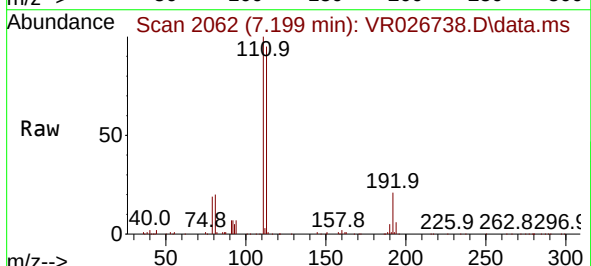
Tgt Ion:113 Resp: 146781

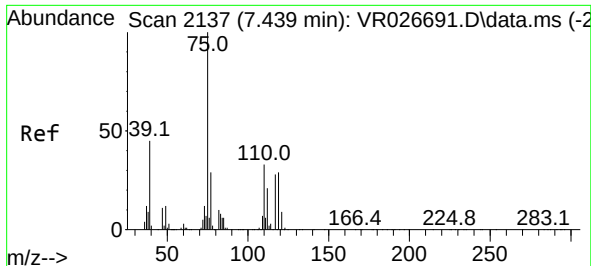
Ion Ratio Lower Upper

113 100

111 105.7 81.7 122.5

192 16.9 12.3 18.5





#35

1,1-Dichloropropene

Concen: 6.044 ug/l

RT: 7.305 min Scan# 2094

Delta R.T. -0.135 min

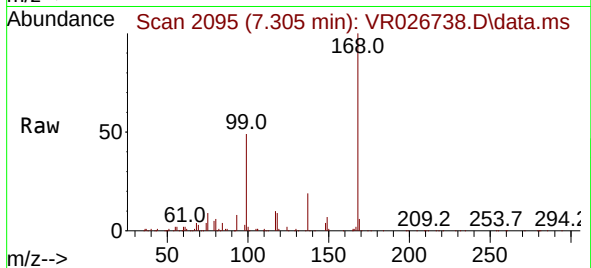
Lab File: VR026738.D

Acq: 11 Aug 2025 14:42

Instrument :

MSVOA_R

ClientSampleId :



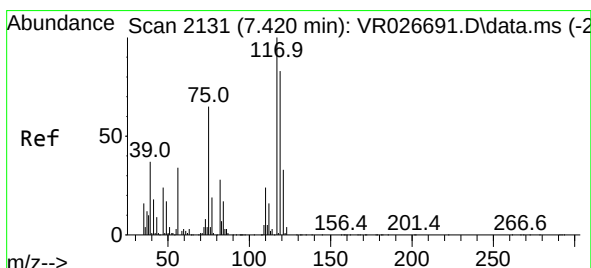
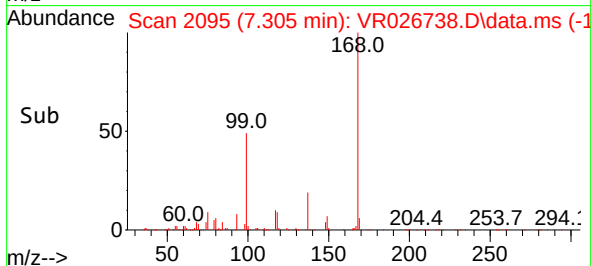
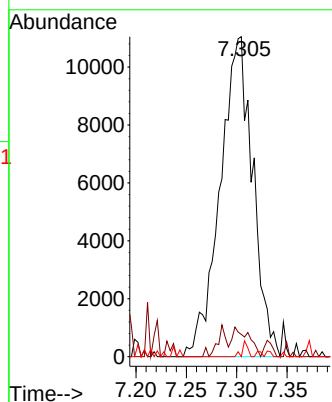
Tgt Ion: 75 Resp: 24927

Ion Ratio Lower Upper

75 100

110 4.7 17.0 50.9#

77 0.8 24.6 37.0#



#37

Carbon Tetrachloride

Concen: 8.611 ug/l

RT: 7.301 min Scan# 2094

Delta R.T. -0.119 min

Lab File: VR026738.D

Acq: 11 Aug 2025 14:42

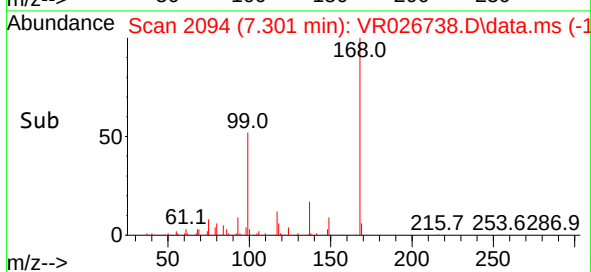
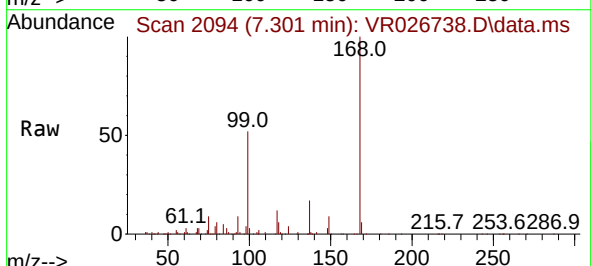
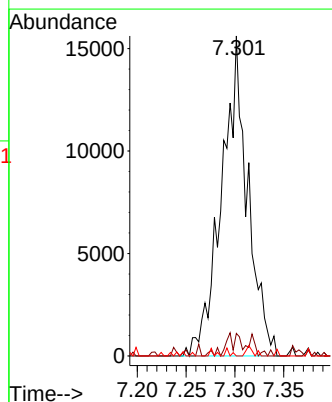
Tgt Ion: 117 Resp: 28922

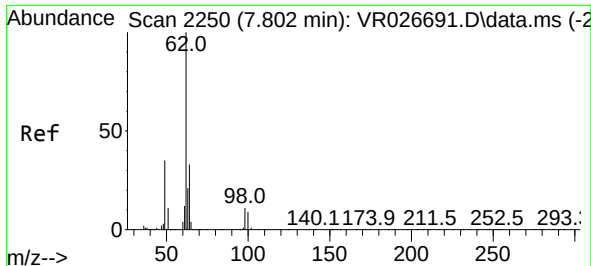
Ion Ratio Lower Upper

117 100

119 7.1 67.0 100.4#

121 0.0 26.3 39.5#





#41

1,2-Dichloroethane

Concen: 0.259 ug/l

RT: 7.301 min Scan# 2094

Delta R.T. -0.500 min

Lab File: VR026738.D

Acq: 11 Aug 2025 14:42

Instrument :

MSVOA_R

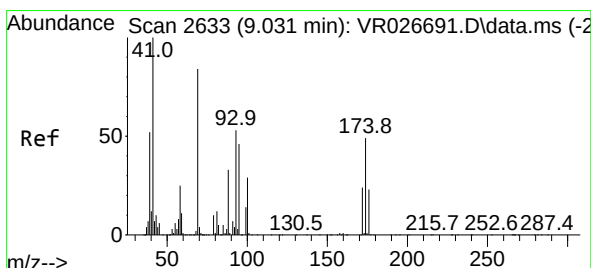
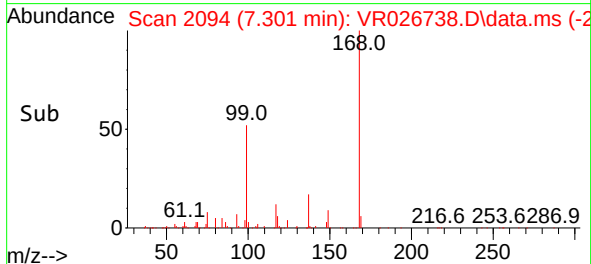
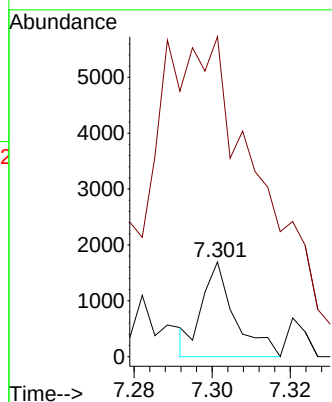
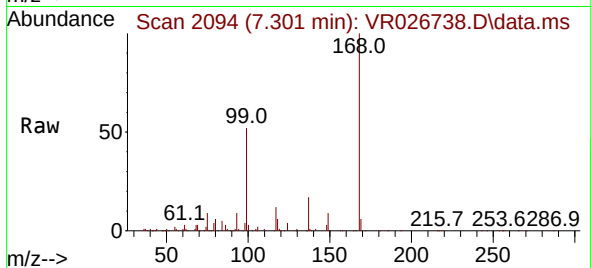
ClientSampleId :

Tgt Ion: 62 Resp: 977

Ion Ratio Lower Upper

62 100

98 1155.0 0.0 22.2#



#48

1,4-Dioxane

Concen: 2.769 ug/l

RT: 9.082 min Scan# 2649

Delta R.T. 0.051 min

Lab File: VR026738.D

Acq: 11 Aug 2025 14:42

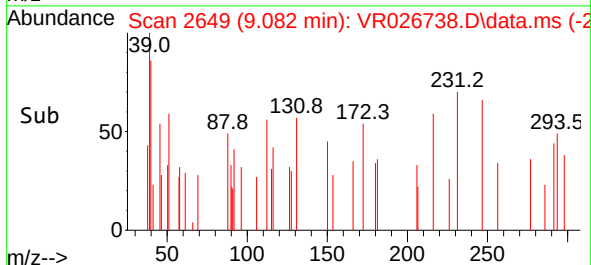
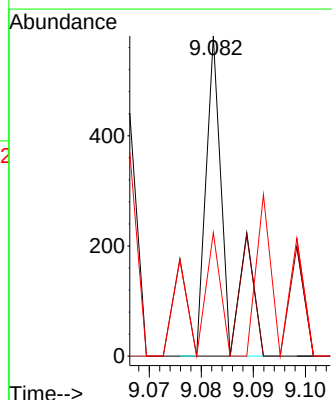
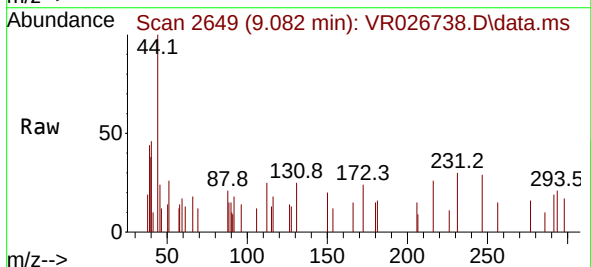
Tgt Ion: 88 Resp: 155

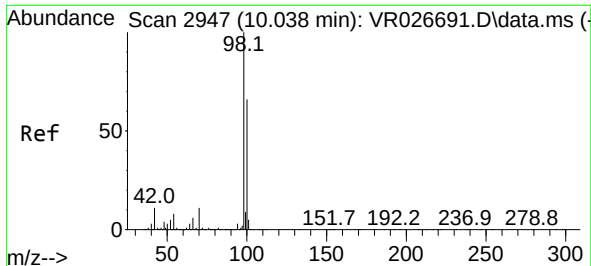
Ion Ratio Lower Upper

88 100

43 27.1 25.2 37.8

58 63.2 60.8 91.2

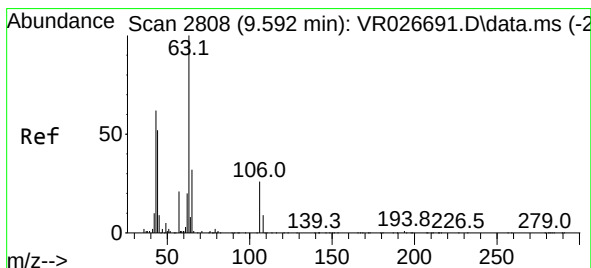
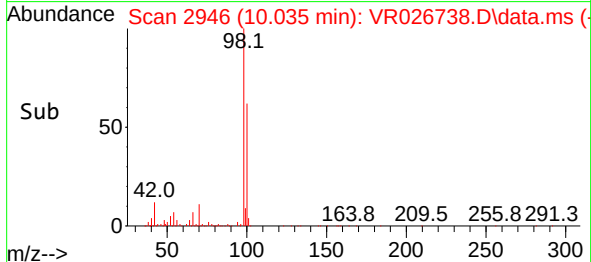
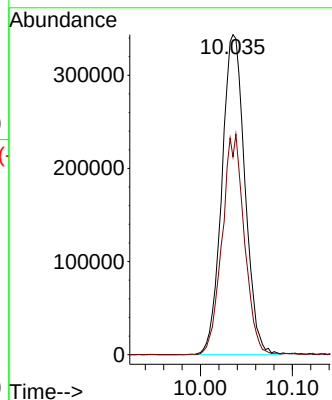
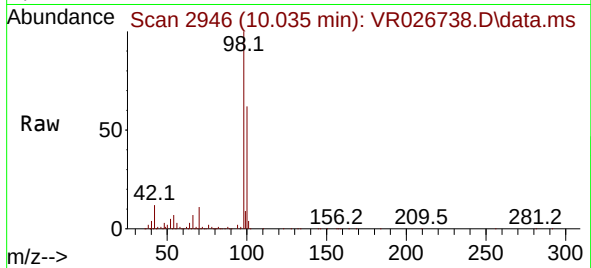




#49
Toluene-d8
Concen: 51.074 ug/l
RT: 10.035 min Scan# 2947
Delta R.T. -0.003 min
Lab File: VR026738.D
Acq: 11 Aug 2025 14:42

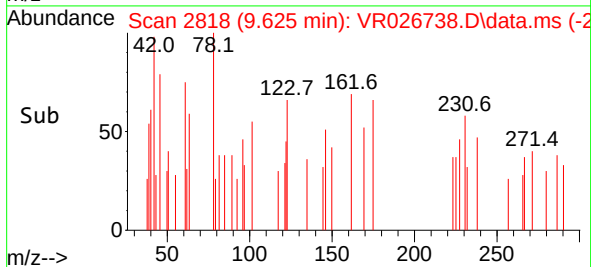
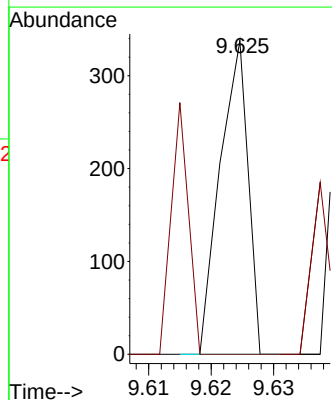
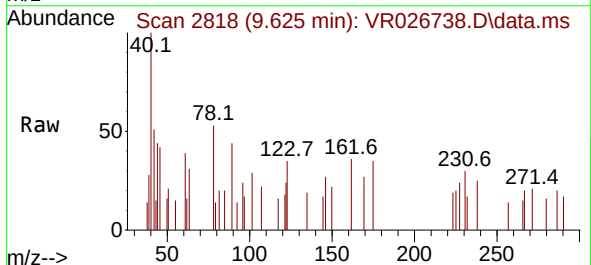
Instrument :
MSVOA_R
ClientSampleId :

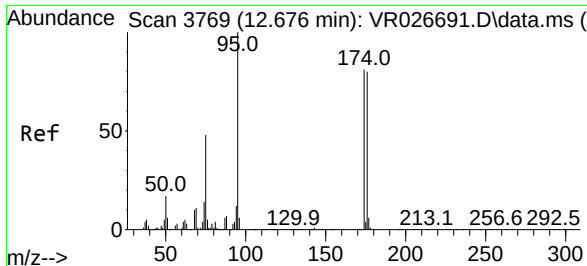
Tgt Ion: 98 Resp: 598149
Ion Ratio Lower Upper
98 100
100 66.4 53.9 80.9



#57
2-Chloroethyl Vinyl ether
Concen: 0.416 ug/l
RT: 9.625 min Scan# 2818
Delta R.T. 0.032 min
Lab File: VR026738.D
Acq: 11 Aug 2025 14:42

Tgt Ion: 63 Resp: 105
Ion Ratio Lower Upper
63 100
106 49.5 22.5 33.7#

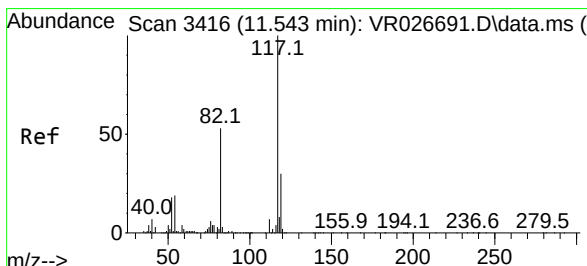
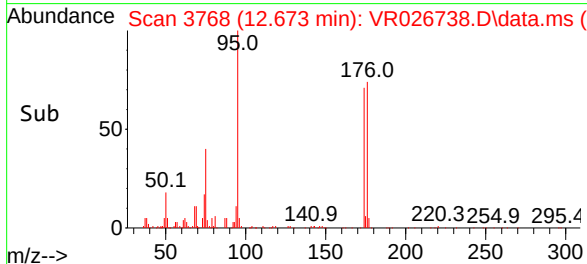
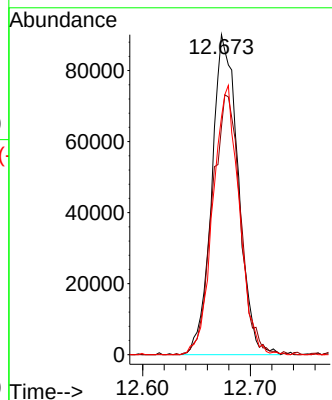
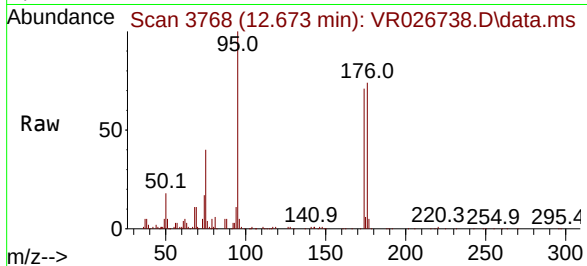




#61
4-Bromofluorobenzene
Concen: 46.038 ug/l
RT: 12.673 min Scan# 31
Delta R.T. -0.003 min
Lab File: VR026738.D
Acq: 11 Aug 2025 14:42

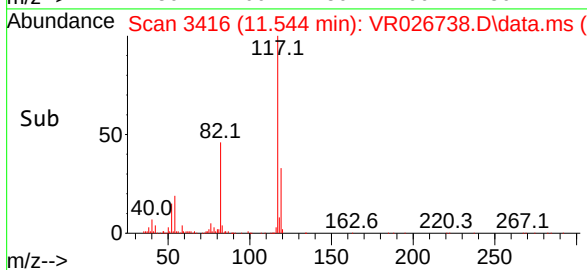
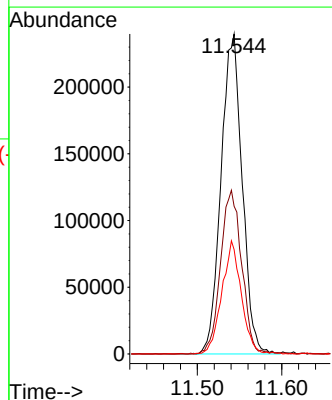
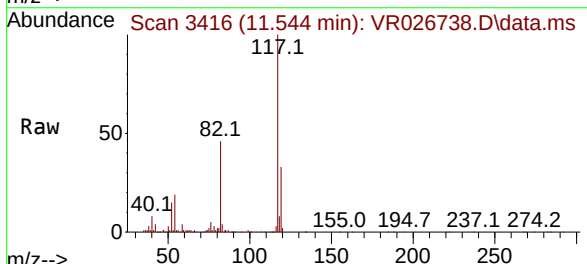
Instrument :
MSVOA_R
ClientSampleId :

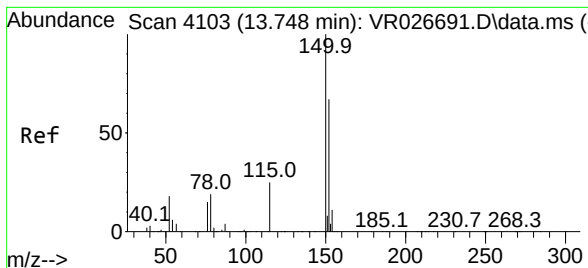
Tgt Ion: 95 Resp: 153357
Ion Ratio Lower Upper
95 100
174 86.6 0.0 158.4
176 83.7 0.0 149.0



#62
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.544 min Scan# 3416
Delta R.T. 0.000 min
Lab File: VR026738.D
Acq: 11 Aug 2025 14:42

Tgt Ion: 117 Resp: 416063
Ion Ratio Lower Upper
117 100
82 46.0 42.0 63.0
119 32.6 23.9 35.9





#71

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.745 min Scan# 41

Delta R.T. -0.003 min

Lab File: VR026738.D

Acq: 11 Aug 2025 14:42

Instrument :

MSVOA_R

ClientSampleId :

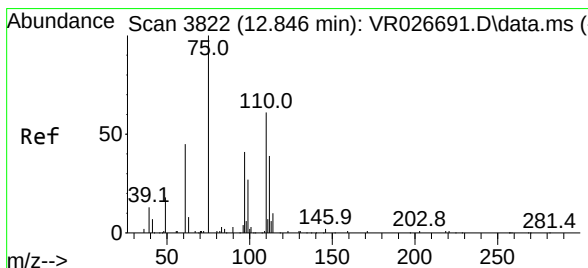
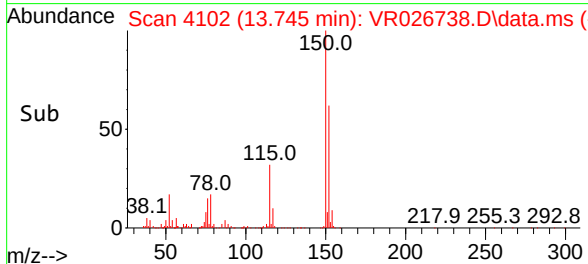
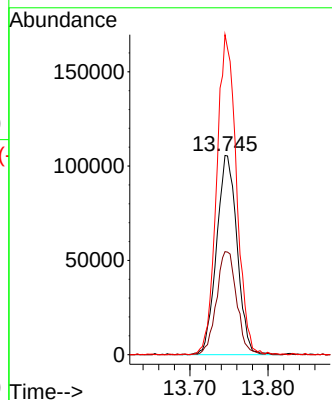
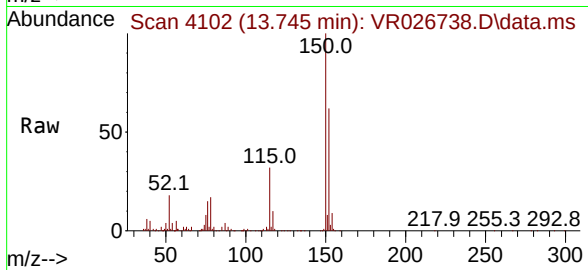
Tgt Ion:152 Resp: 193086

Ion Ratio Lower Upper

152 100

115 50.9 27.8 83.4

150 154.7 0.0 350.4



#75

1,2,3-Trichloropropane

Concen: 24.285 ug/l

RT: 12.676 min Scan# 3769

Delta R.T. -0.170 min

Lab File: VR026738.D

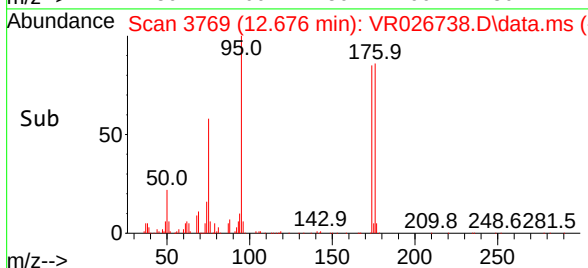
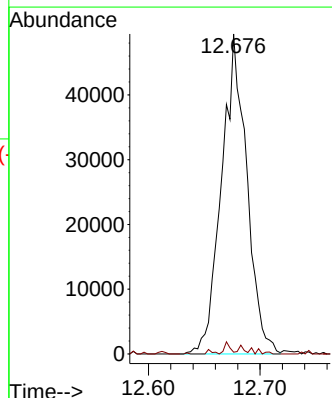
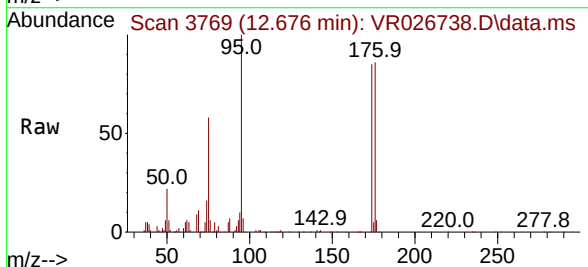
Acq: 11 Aug 2025 14:42

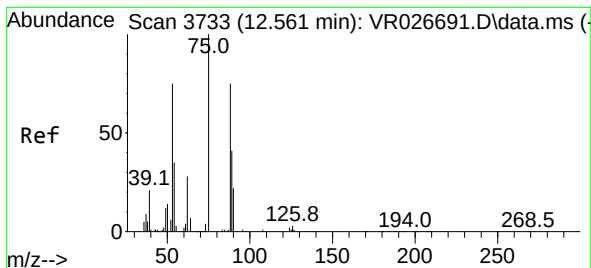
Tgt Ion: 75 Resp: 77727

Ion Ratio Lower Upper

75 100

77 0.6 0.0 0.0#

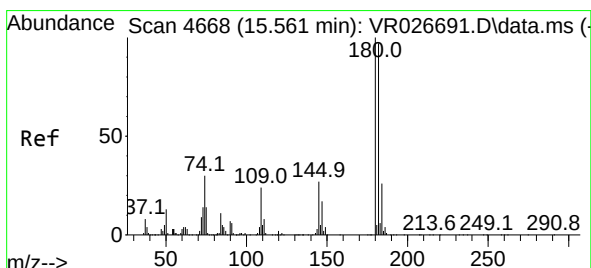
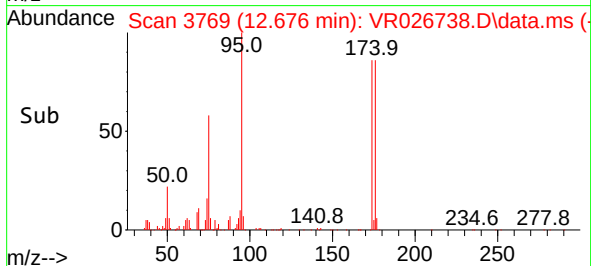
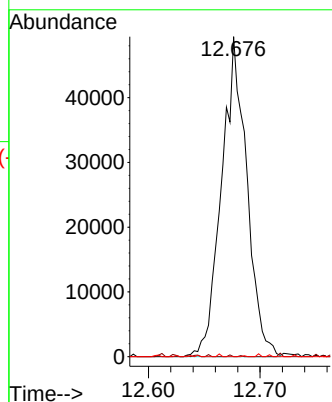
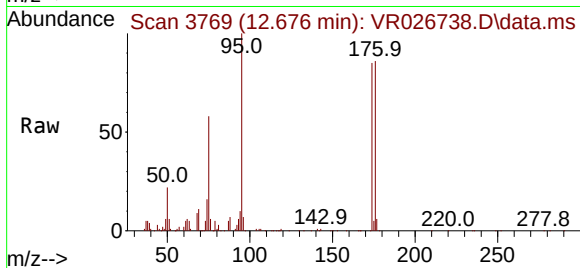




#80
 trans-1,4-Dichloro-2-butene
 Concen: 70.732 ug/l
 RT: 12.676 min Scan# 31
 Delta R.T. 0.116 min
 Lab File: VR026738.D
 Acq: 11 Aug 2025 14:42

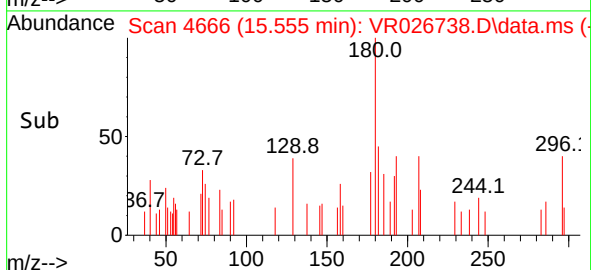
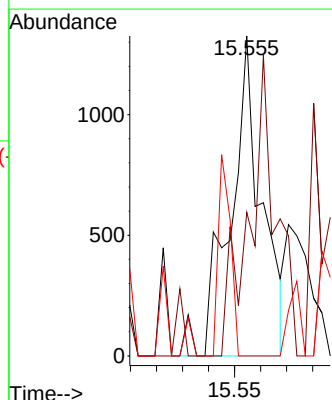
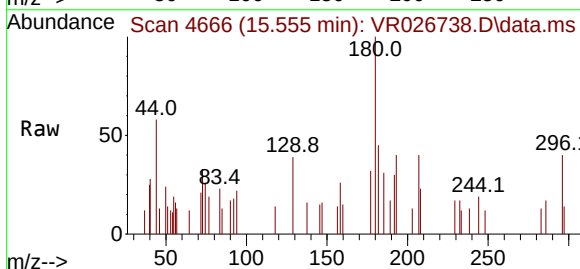
Instrument :
 MSVOA_R
 ClientSampleId :

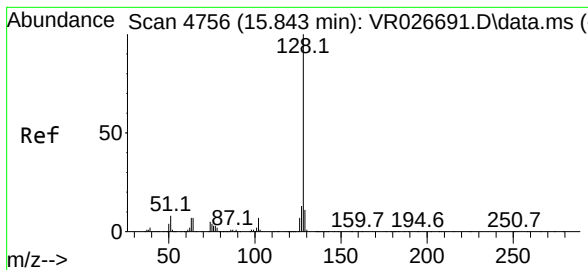
Tgt Ion: 75 Resp: 77727
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.8 101.6#
 89 0.0 34.6 52.0#



#92
 1,2,4-Trichlorobenzene
 Concen: 0.316 ug/l
 RT: 15.555 min Scan# 4666
 Delta R.T. -0.006 min
 Lab File: VR026738.D
 Acq: 11 Aug 2025 14:42

Tgt Ion:180 Resp: 1108
 Ion Ratio Lower Upper
 180 100
 182 80.1 47.0 141.0
 145 24.3 15.2 45.5





#94
Naphthalene
Concen: 0.517 ug/l
RT: 15.843 min Scan# 41
Delta R.T. 0.000 min
Lab File: VR026738.D
Acq: 11 Aug 2025 14:42

Instrument :
MSVOA_R
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
128	100		
127	20.6	9.8	14.8#
129	11.9	8.6	13.0

