

Data Path : Z:\voasrv\HPCHEM1\MSVOA_R\Data\VR080425\
 Data File : VR026693.D
 Acq On : 4 Aug 2025 12:53
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5mL/MSVOA_R/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 VIBLK

Quant Time: Aug 05 02:30:53 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	7.305	168	2785205	50.000	ug/l	0.00
33) 1,4-Difluorobenzene	8.331	114	4724174	50.000	ug/l	0.00
62) Chlorobenzene-d5	11.540	117	3545612	50.000	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	13.745	152	1706291	50.000	ug/l	0.00

System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.696	65	1615533	45.829	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	91.660%
34) Dibromofluoromethane	7.208	113	1461793	50.028	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.060%
49) Toluene-d8	10.039	98	4840013	46.235	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	92.480%
61) 4-Bromofluorobenzene	12.676	95	1567933	52.660	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.320%

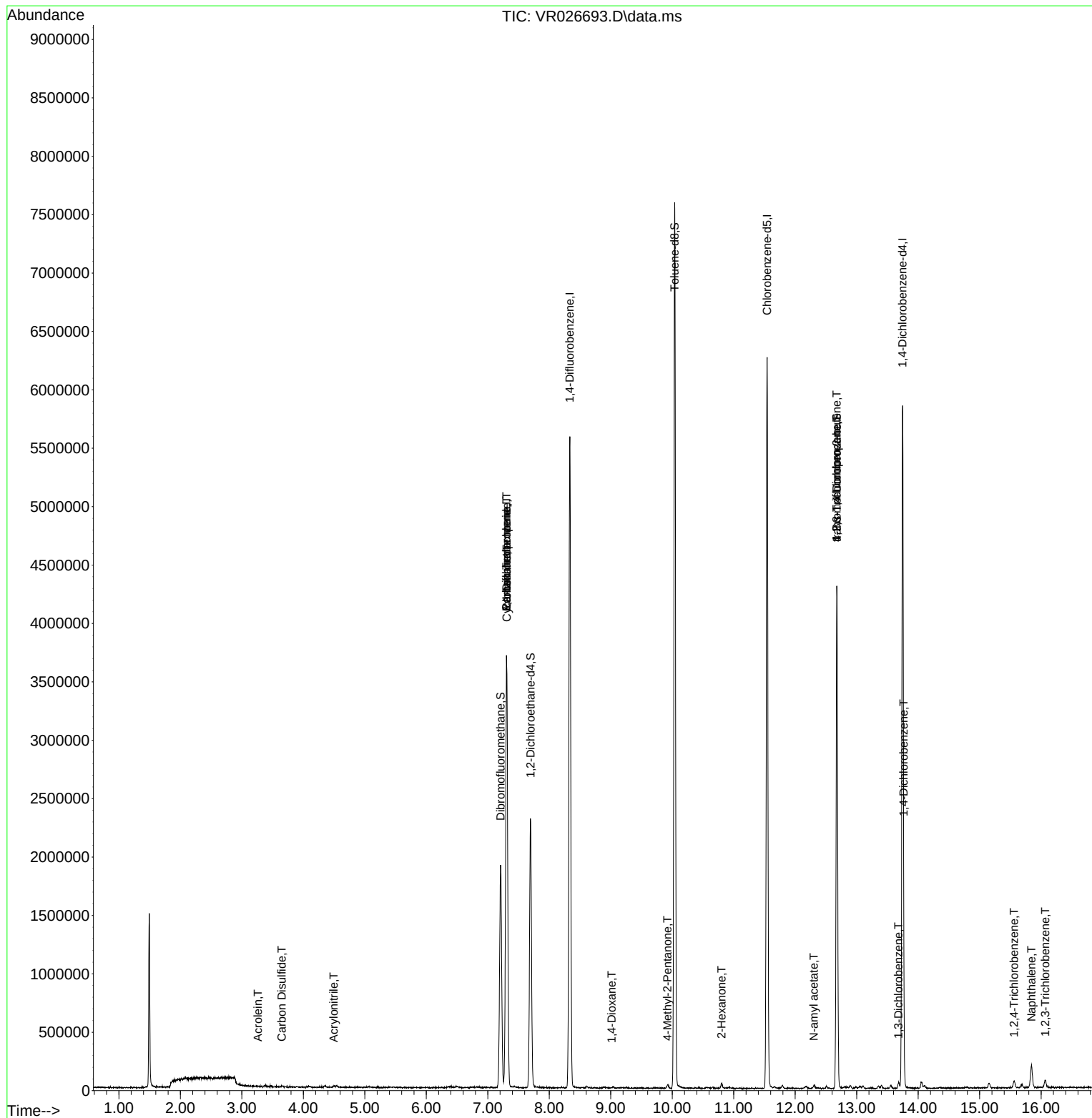
Target Compounds					Qvalue	
13) Acrolein	3.258	56	3104	0.385	ug/l #	57
15) Acrylonitrile	4.494	53	5157	0.236	ug/l #	44
17) Carbon Disulfide	3.650	76	9463	0.216	ug/l	98
30) Cyclohexane	7.308	56	60477	1.083	ug/l #	1
35) 1,1-Dichloropropene	7.305	75	251310	6.818	ug/l #	49
37) Carbon Tetrachloride	7.305	117	297933	9.924	ug/l #	21
48) 1,4-Dioxane	9.015	88	359	0.718	ug/l #	21
50) 4-Methyl-2-Pentanone	9.923	43	23866	0.644	ug/l #	50
58) 2-Hexanone	10.802	43	32238	1.291	ug/l	98
73) N-amyl acetate	12.304	43	13401	0.278	ug/l #	85
75) 1,2,3-Trichloropropane	12.676	75	751489	26.570	ug/l #	100
80) trans-1,4-Dichloro-2-b...	12.676	75	751489	77.386	ug/l #	16
86) 1,3-Dichlorobenzene	13.677	146	13846	0.251	ug/l #	78
87) 1,4-Dichlorobenzene	13.764	146	15626	0.282	ug/l #	20
92) 1,2,4-Trichlorobenzene	15.561	180	20909	0.675	ug/l	91
94) Naphthalene	15.840	128	214057	2.254	ug/l	98
95) 1,2,3-Trichlorobenzene	16.068	180	28238	0.960	ug/l #	50

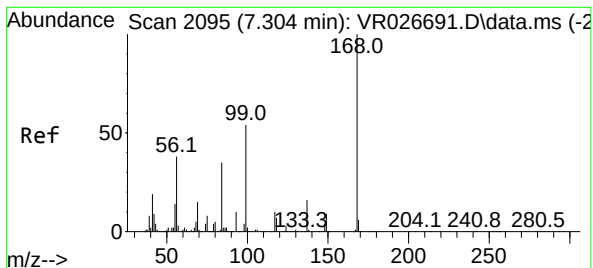
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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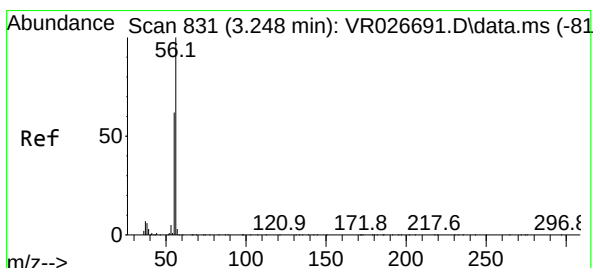
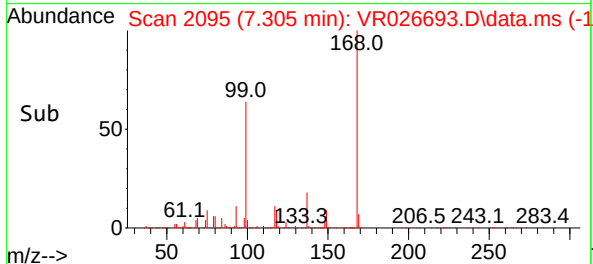
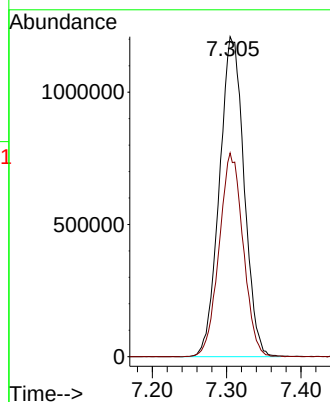
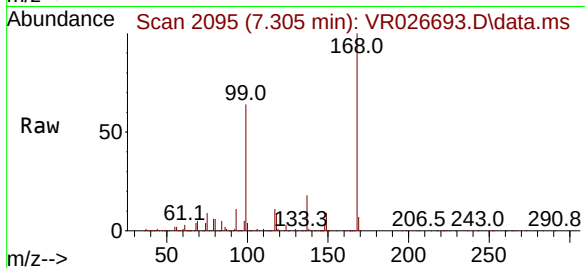




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.305 min Scan# 2095
Delta R.T. 0.001 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

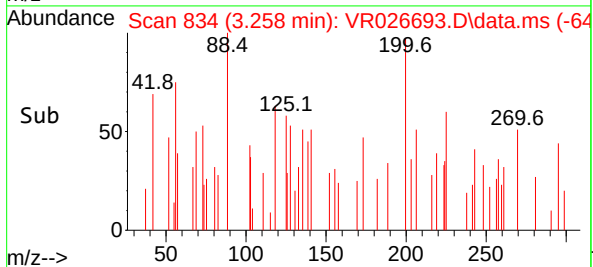
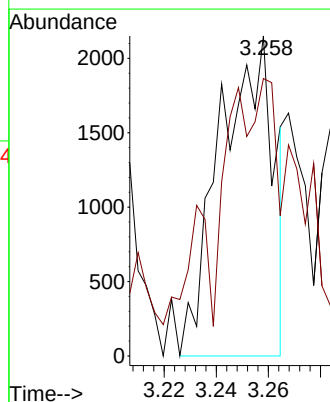
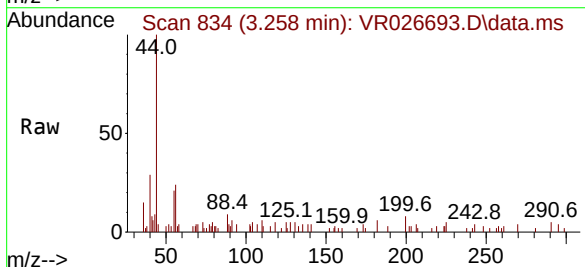
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

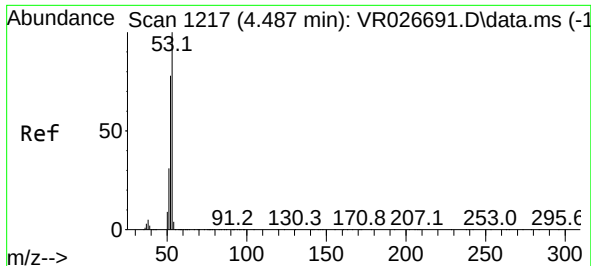
Tgt Ion:168 Resp: 2785205
Ion Ratio Lower Upper
168 100
99 63.6 43.8 65.8



#13
Acrolein
Concen: 0.385 ug/l
RT: 3.258 min Scan# 834
Delta R.T. 0.010 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

Tgt Ion: 56 Resp: 3104
Ion Ratio Lower Upper
56 100
55 32.6 53.8 80.8#

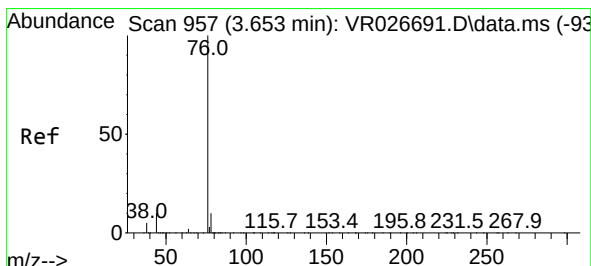
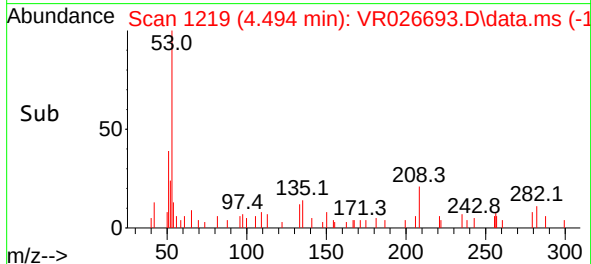
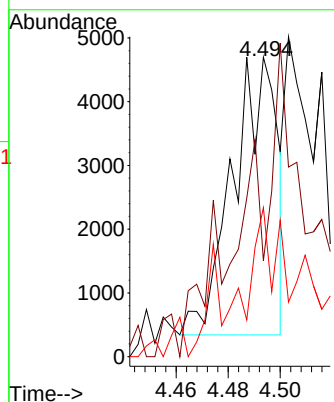
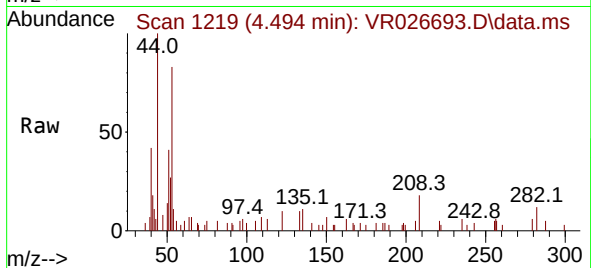




#15
Acrylonitrile
Concen: 0.236 ug/l
RT: 4.494 min Scan# 11
Delta R.T. 0.006 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

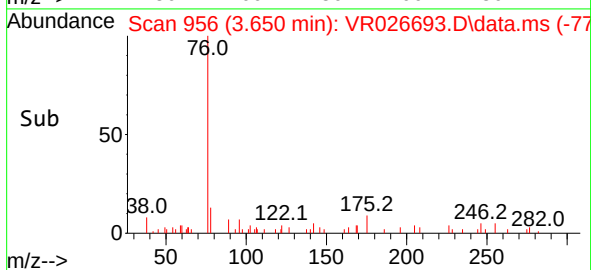
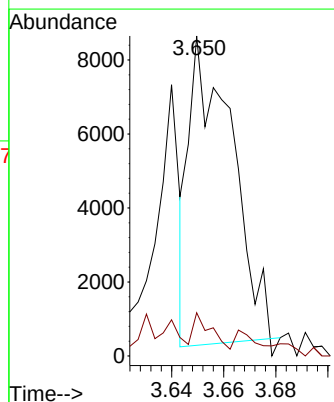
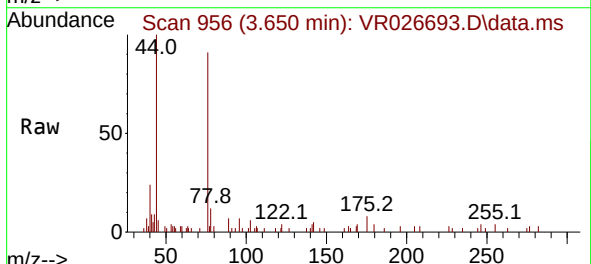
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

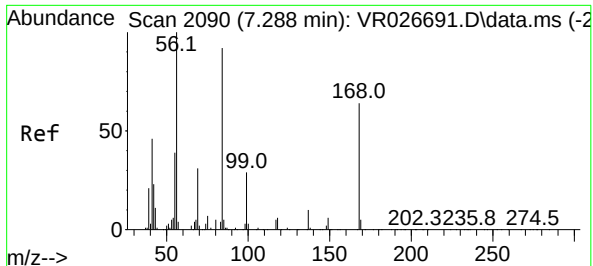
Tgt Ion: 53 Resp: 5157
Ion Ratio Lower Upper
53 100
52 17.0 61.4 92.2#
51 18.0 25.8 38.6#



#17
Carbon Disulfide
Concen: 0.216 ug/l
RT: 3.650 min Scan# 956
Delta R.T. -0.003 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

Tgt Ion: 76 Resp: 9463
Ion Ratio Lower Upper
76 100
78 10.3 7.8 11.6

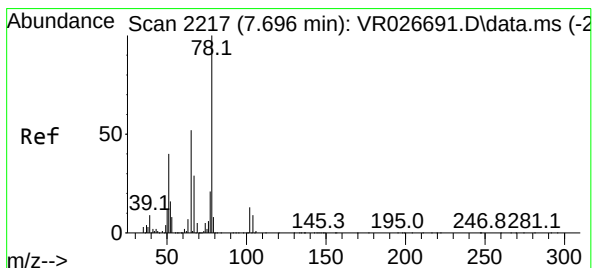
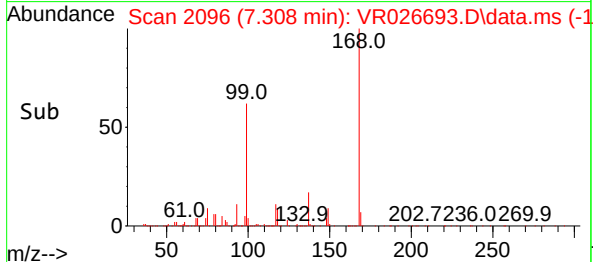
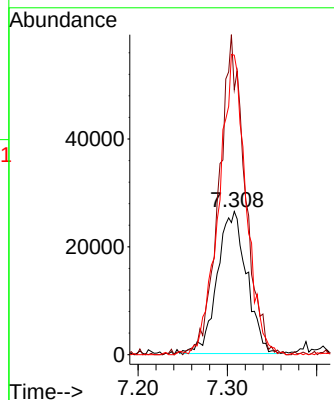
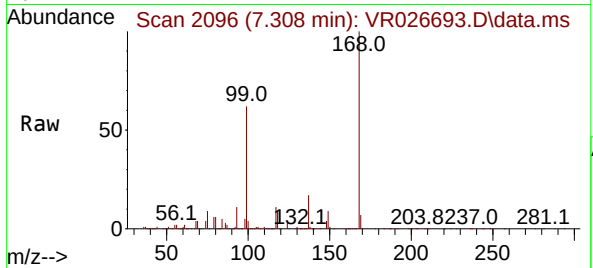




#30
Cyclohexane
Concen: 1.083 ug/l
RT: 7.308 min Scan# 2090
Delta R.T. 0.019 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

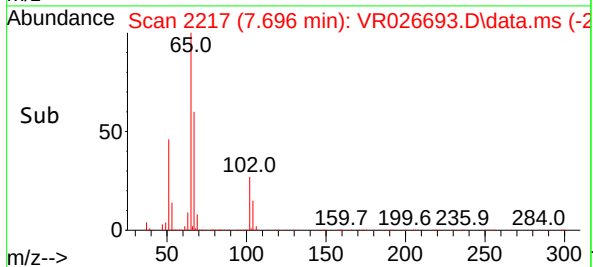
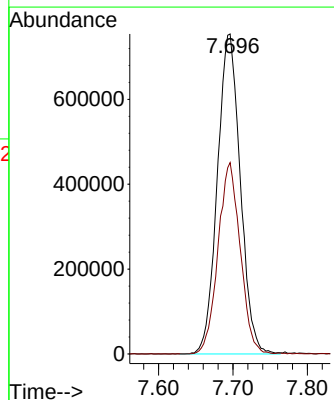
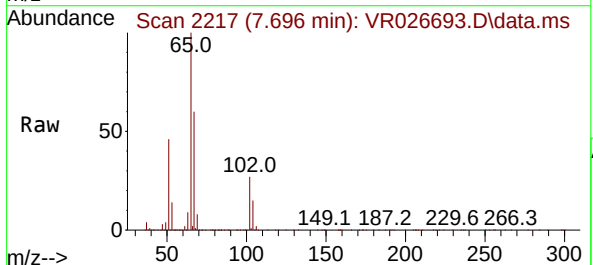
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

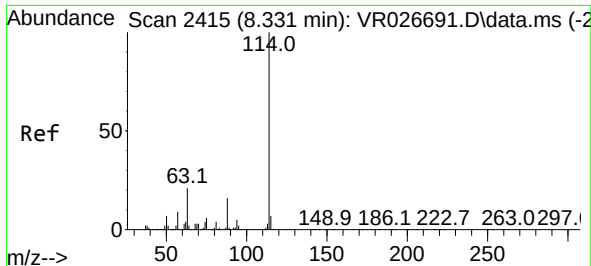
Tgt Ion: 56 Resp: 60477
Ion Ratio Lower Upper
56 100
69 185.3 24.8 37.2#
84 209.5 73.1 109.7#



#32
1,2-Dichloroethane-d4
Concen: 45.829 ug/l
RT: 7.696 min Scan# 2217
Delta R.T. 0.000 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

Tgt Ion: 65 Resp: 1615533
Ion Ratio Lower Upper
65 100
67 58.0 0.0 118.4





#33

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.331 min Scan# 2415

Delta R.T. 0.000 min

Lab File: VR026693.D

Acq: 4 Aug 2025 12:53

Instrument :

MSVOA_R

ClientSampleId :

VIBLK

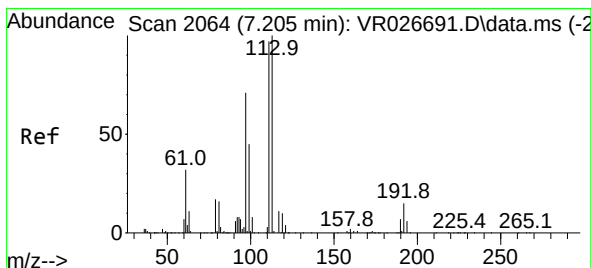
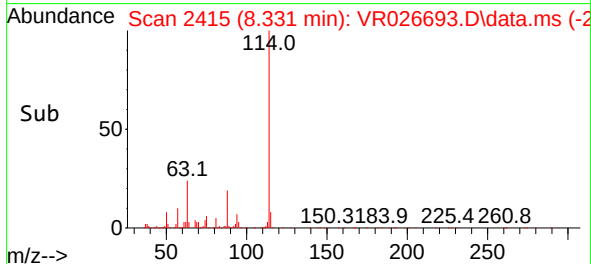
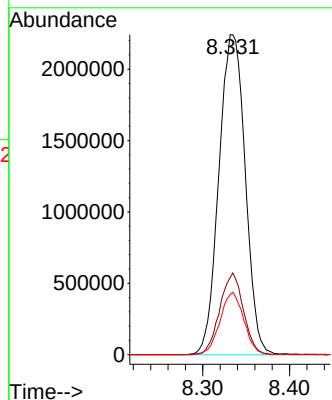
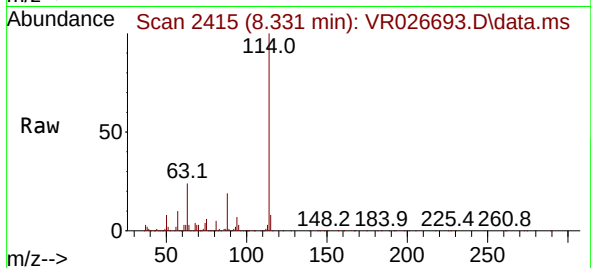
Tgt Ion:114 Resp: 4724174

Ion Ratio Lower Upper

114 100

63 24.0 0.0 41.6

88 18.7 0.0 32.6



#34

Dibromofluoromethane

Concen: 50.028 ug/l

RT: 7.208 min Scan# 2065

Delta R.T. 0.003 min

Lab File: VR026693.D

Acq: 4 Aug 2025 12:53

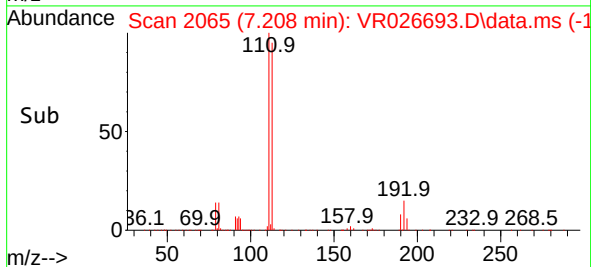
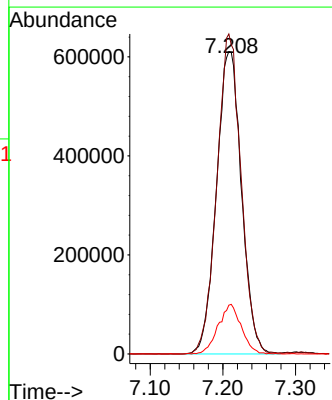
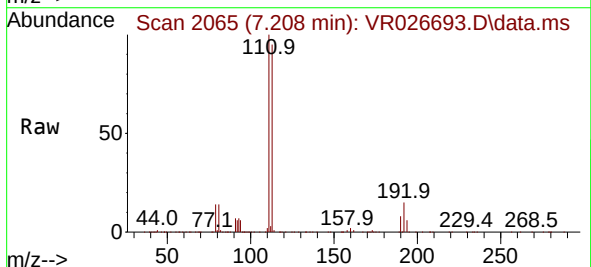
Tgt Ion:113 Resp: 1461793

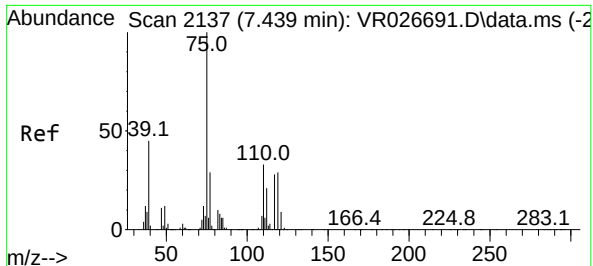
Ion Ratio Lower Upper

113 100

111 102.1 81.7 122.5

192 15.1 12.3 18.5





#35

1,1-Dichloropropene

Concen: 6.818 ug/l

RT: 7.305 min Scan# 2095

Delta R.T. -0.135 min

Lab File: VR026693.D

Acq: 4 Aug 2025 12:53

Instrument :

MSVOA_R

ClientSampleId :

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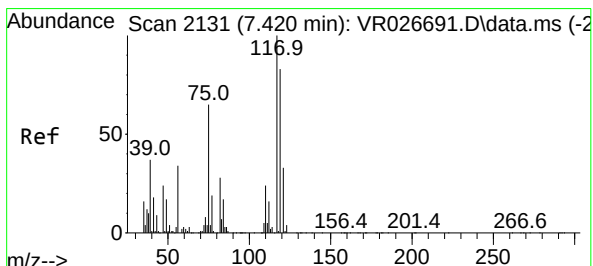
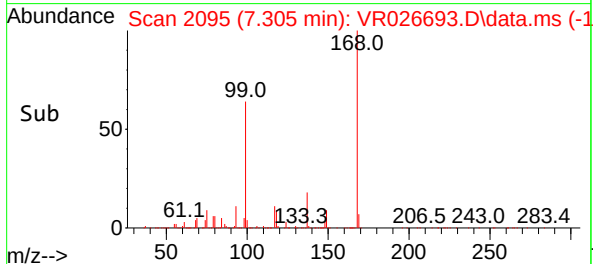
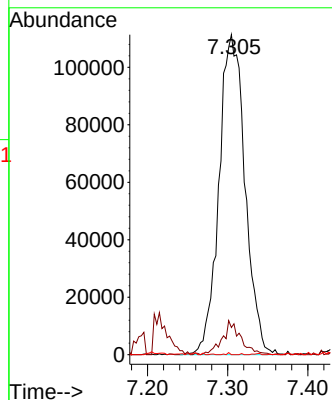
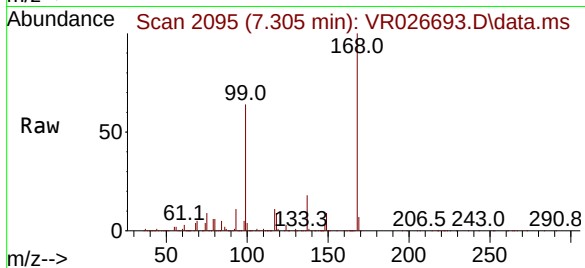
Tgt Ion: 75 Resp: 251310

Ion Ratio Lower Upper

75 100

110 7.4 17.0 50.9#

77 0.1 24.6 37.0#



#37

Carbon Tetrachloride

Concen: 9.924 ug/l

RT: 7.305 min Scan# 2095

Delta R.T. -0.115 min

Lab File: VR026693.D

Acq: 4 Aug 2025 12:53

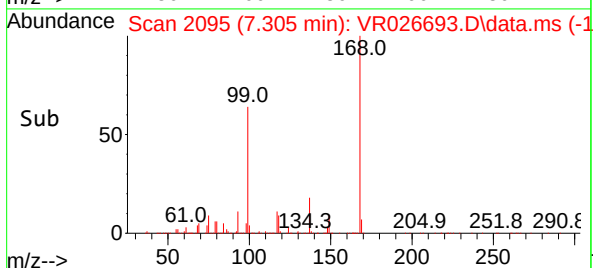
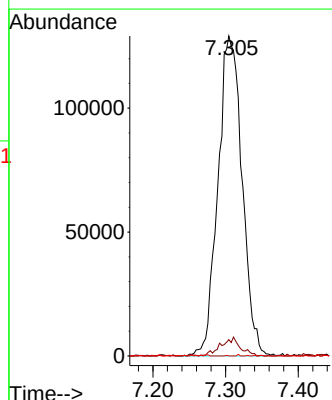
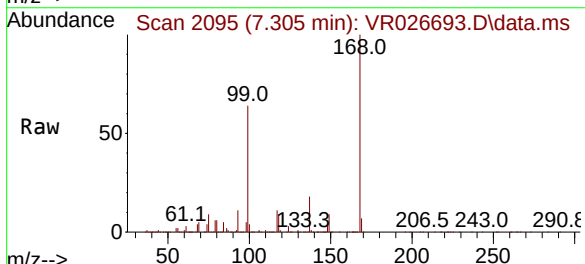
Tgt Ion: 117 Resp: 297933

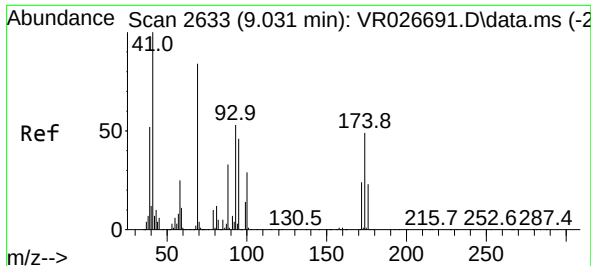
Ion Ratio Lower Upper

117 100

119 5.1 67.0 100.4#

121 0.0 26.3 39.5#

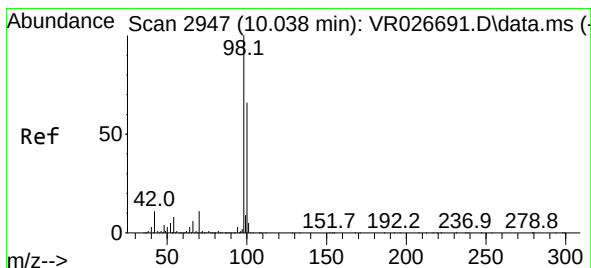
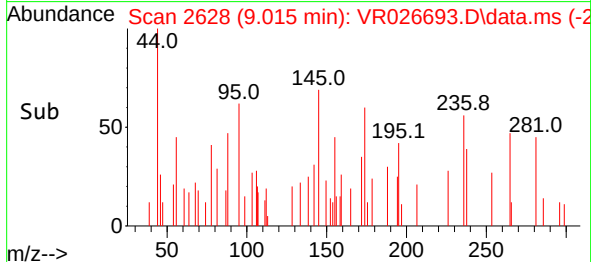
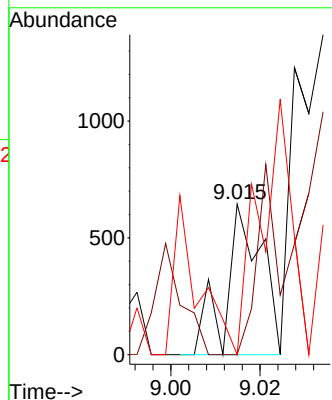
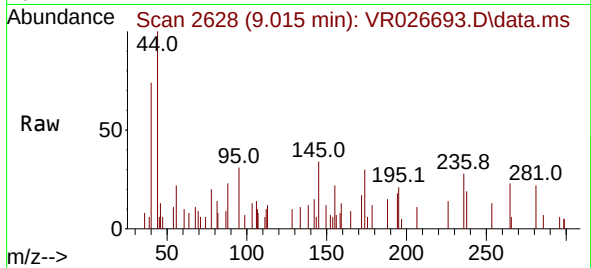




#48
1,4-Dioxane
Concen: 0.718 ug/l
RT: 9.015 min Scan# 2628
Delta R.T. -0.016 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

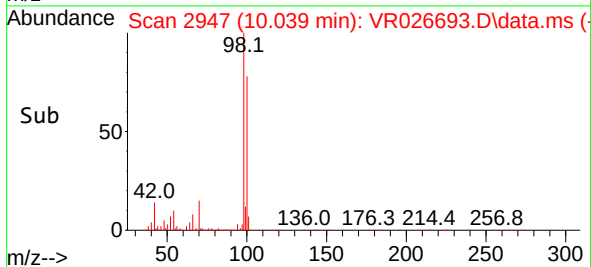
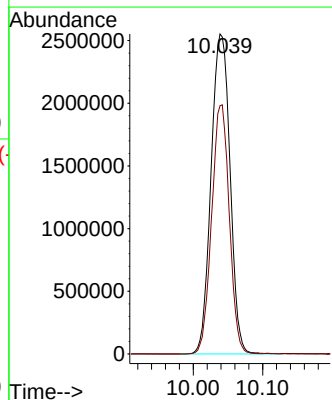
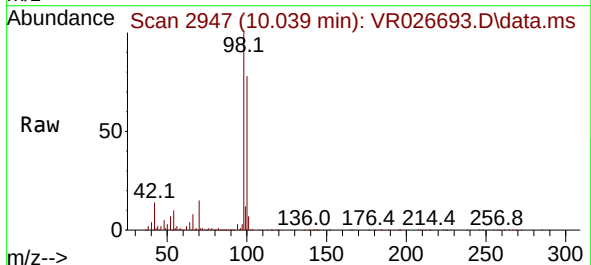
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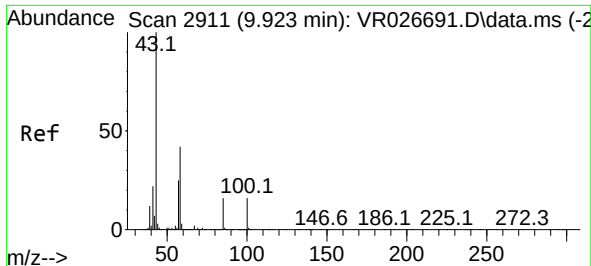
Tgt Ion: 88 Resp: 359
Ion Ratio Lower Upper
88 100
43 68.0 25.2 37.8#
58 148.7 60.8 91.2#



#49
Toluene-d8
Concen: 46.235 ug/l
RT: 10.039 min Scan# 2947
Delta R.T. 0.000 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

Tgt Ion: 98 Resp: 4840013
Ion Ratio Lower Upper
98 100
100 72.5 53.9 80.9





#50

4-Methyl-2-Pentanone

Concen: 0.644 ug/l

RT: 9.923 min Scan# 2911

Delta R.T. 0.000 min

Lab File: VR026693.D

Acq: 4 Aug 2025 12:53

Instrument :

MSVOA_R

ClientSampleId :

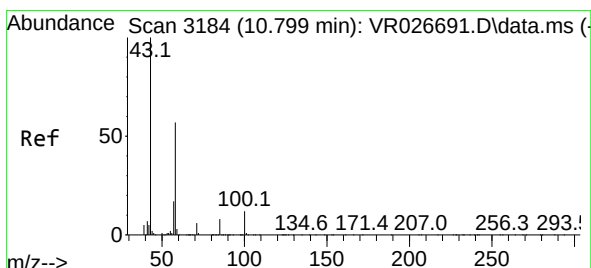
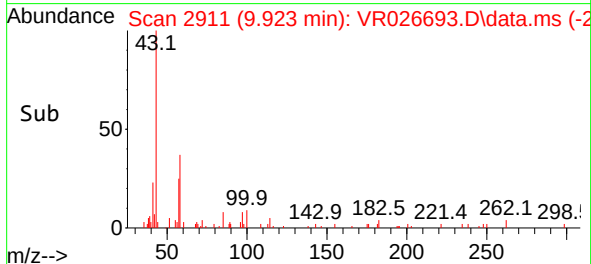
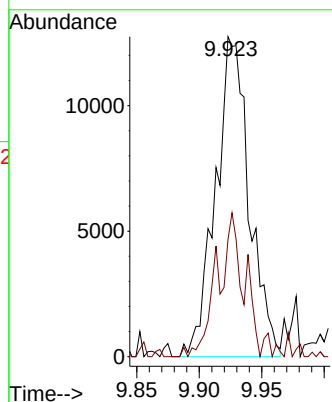
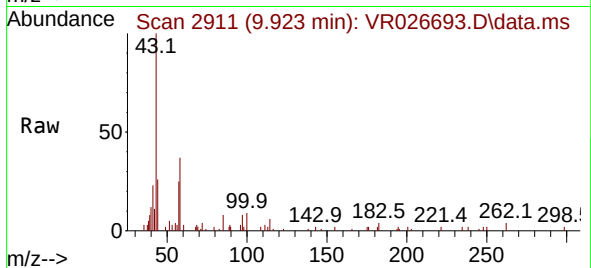
VIBLK

Tgt Ion: 43 Resp: 23866

Ion Ratio Lower Upper

43 100

58 10.4 33.7 50.5#



#58

2-Hexanone

Concen: 1.291 ug/l

RT: 10.802 min Scan# 3185

Delta R.T. 0.003 min

Lab File: VR026693.D

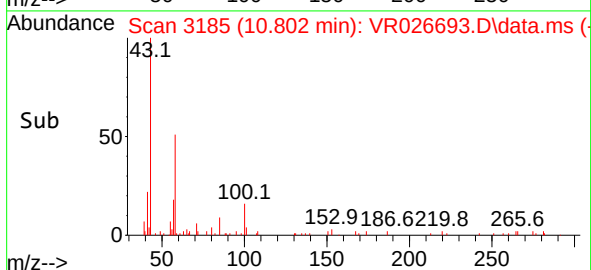
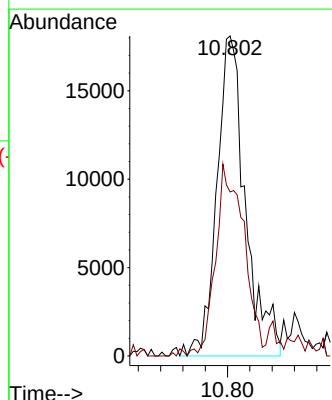
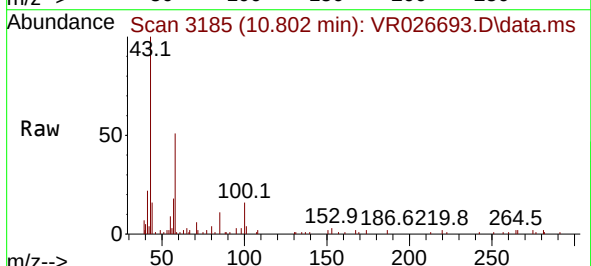
Acq: 4 Aug 2025 12:53

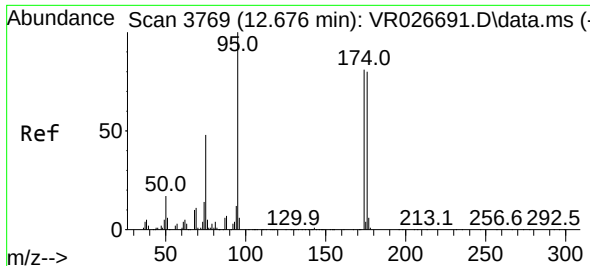
Tgt Ion: 43 Resp: 32238

Ion Ratio Lower Upper

43 100

58 58.8 28.8 86.4

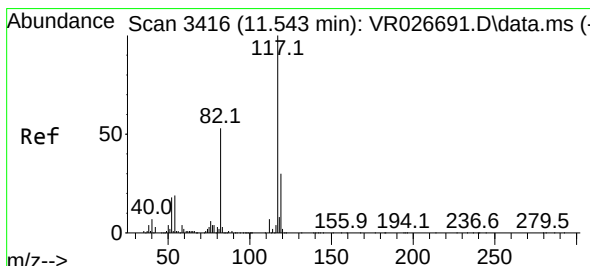
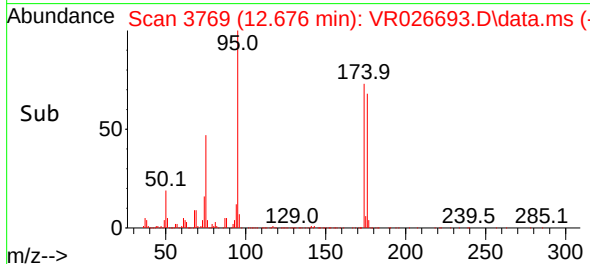
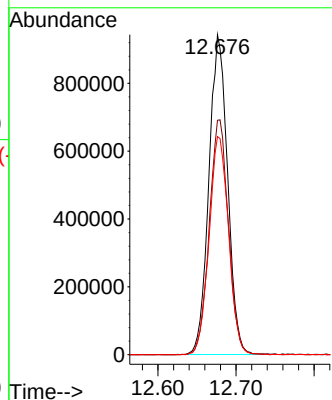
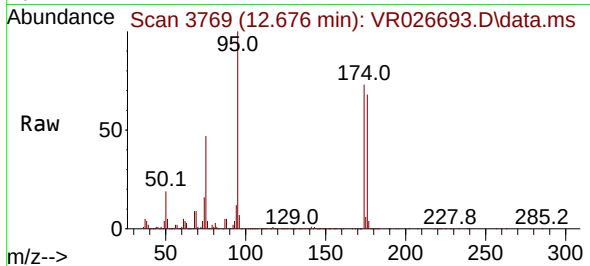




#61
4-Bromofluorobenzene
Concen: 52.660 ug/l
RT: 12.676 min Scan# 31
Delta R.T. 0.000 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

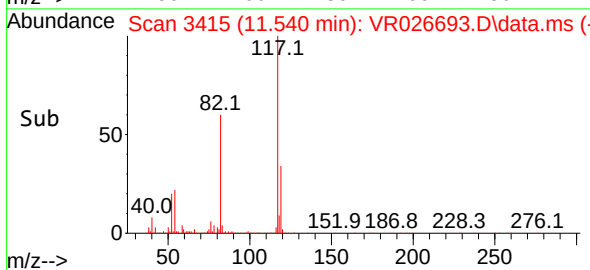
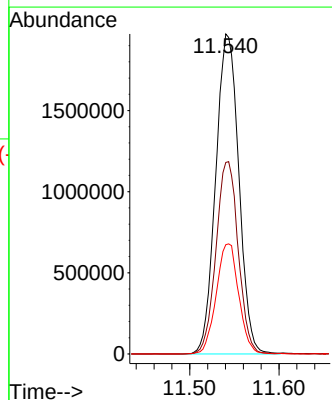
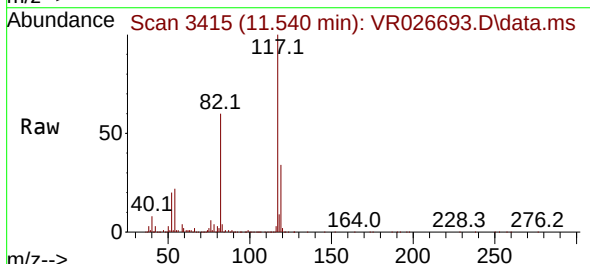
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

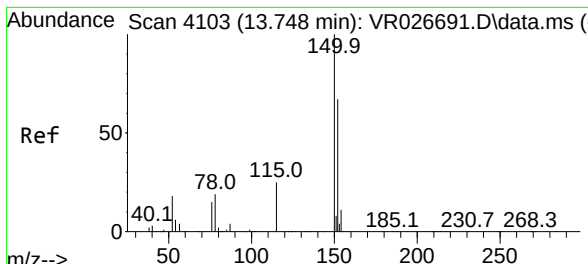
Tgt Ion: 95 Resp: 1567933
Ion Ratio Lower Upper
95 100
174 75.3 0.0 158.4
176 71.0 0.0 149.0



#62
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.540 min Scan# 3415
Delta R.T. -0.003 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

Tgt Ion: 117 Resp: 3545612
Ion Ratio Lower Upper
117 100
82 59.8 42.0 63.0
119 34.1 23.9 35.9



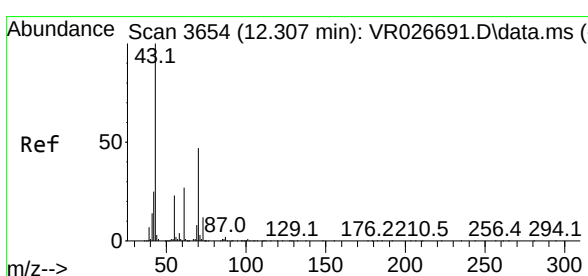
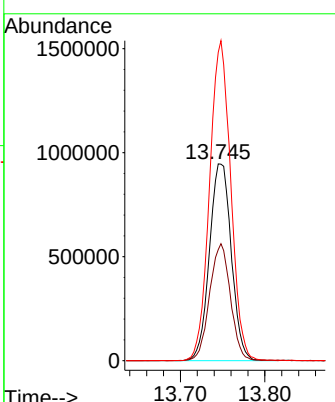
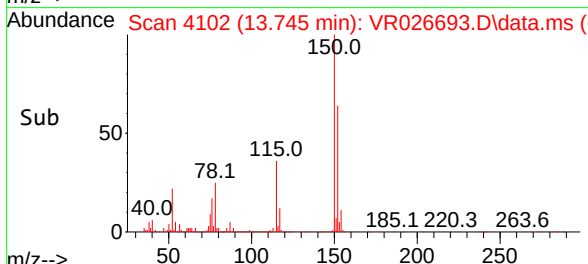
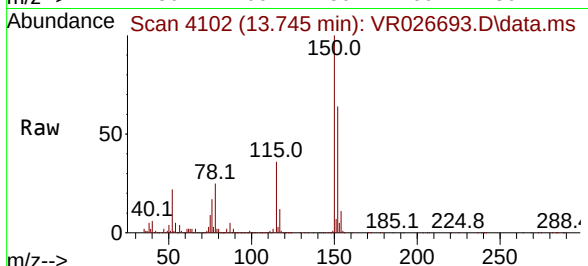


#71
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.745 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VR026693.D
 Acq: 4 Aug 2025 12:53

Instrument :
 MSVOA_R
 ClientSampleId :
 VIBLK

Tgt Ion:152 Resp: 1706291

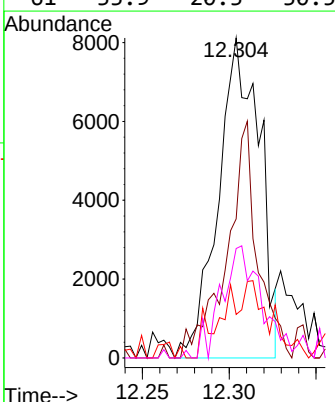
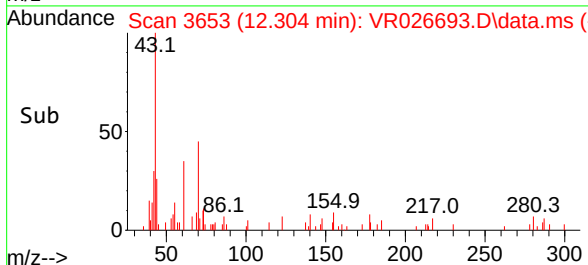
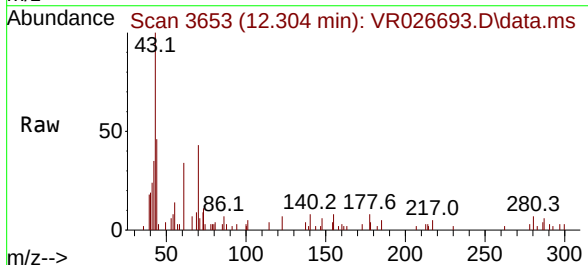
Ion	Ratio	Lower	Upper
152	100		
115	56.4	27.8	83.4
150	156.9	0.0	350.4

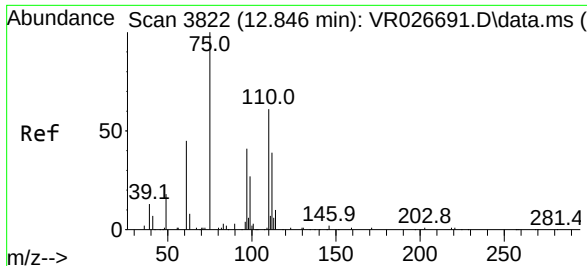


#73
 N-amy1 acetate
 Concen: 0.278 ug/l
 RT: 12.304 min Scan# 3653
 Delta R.T. -0.003 min
 Lab File: VR026693.D
 Acq: 4 Aug 2025 12:53

Tgt Ion: 43 Resp: 13401

Ion	Ratio	Lower	Upper
43	100		
70	55.0	36.4	54.6#
55	16.5	18.7	28.1#
61	33.9	20.3	30.5#

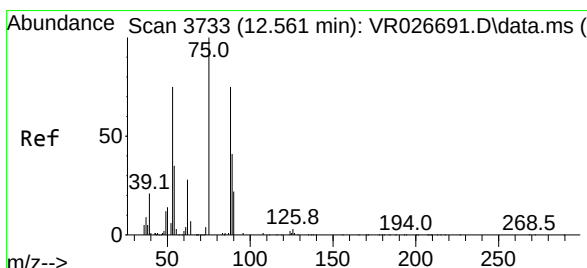
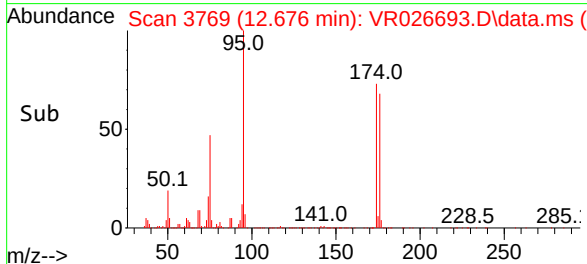
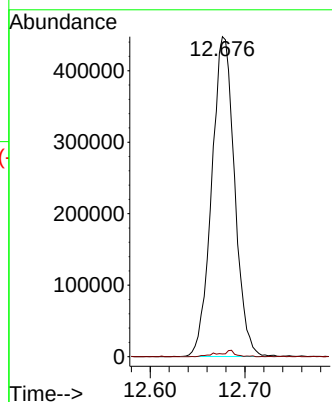
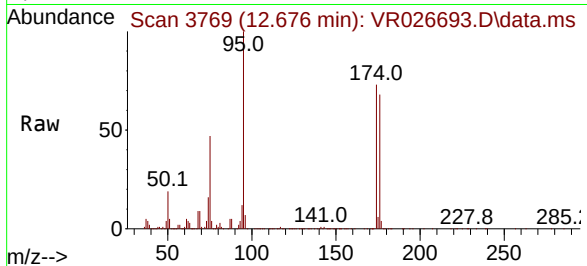




#75
1,2,3-Trichloropropane
Concen: 26.570 ug/l
RT: 12.676 min Scan# 3769
Delta R.T. -0.170 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

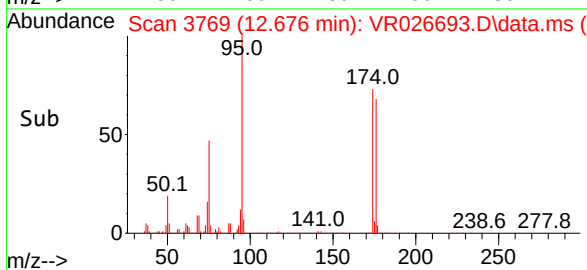
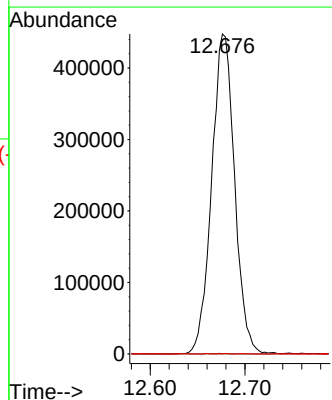
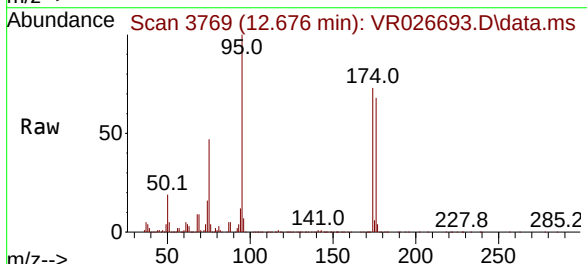
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

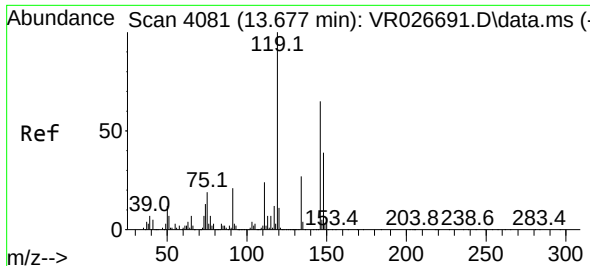
Tgt Ion: 75 Resp: 751489
Ion Ratio Lower Upper
75 100
77 0.8 0.0 0.0#



#80
trans-1,4-Dichloro-2-butene
Concen: 77.386 ug/l
RT: 12.676 min Scan# 3769
Delta R.T. 0.116 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

Tgt Ion: 75 Resp: 751489
Ion Ratio Lower Upper
75 100
53 0.1 67.8 101.6#
89 0.0 34.6 52.0#

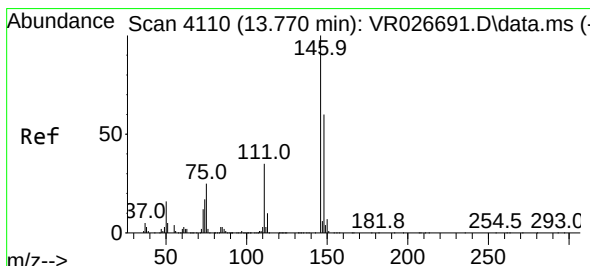
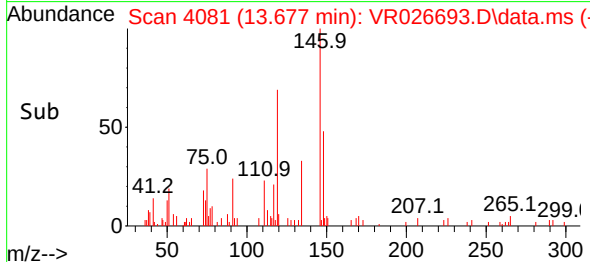
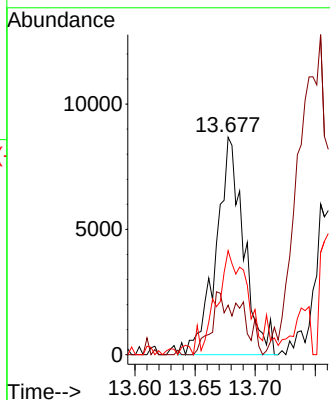
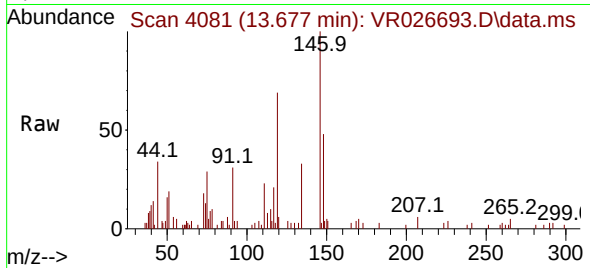




#86
1,3-Dichlorobenzene
Concen: 0.251 ug/l
RT: 13.677 min Scan# 4081
Delta R.T. 0.000 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

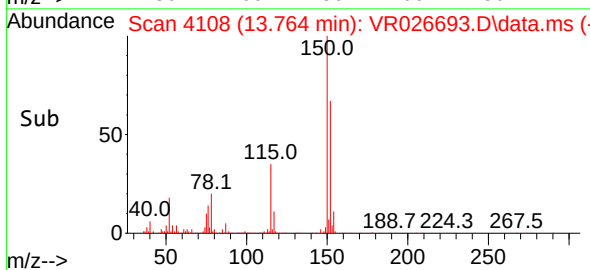
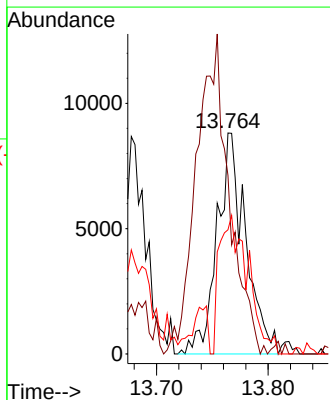
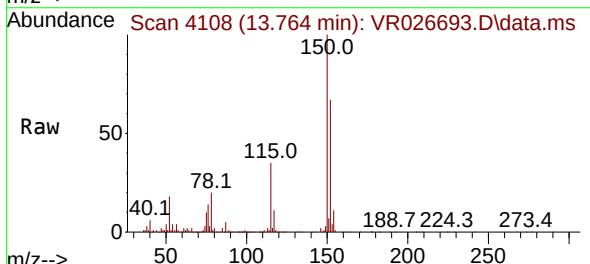
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

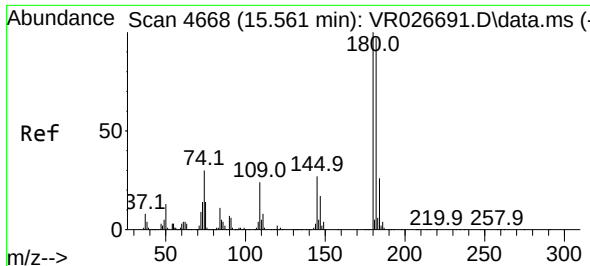
Tgt Ion:146 Resp: 13846
Ion Ratio Lower Upper
146 100
111 18.7 19.4 58.2#
148 50.8 31.4 94.3



#87
1,4-Dichlorobenzene
Concen: 0.282 ug/l
RT: 13.764 min Scan# 4108
Delta R.T. -0.006 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

Tgt Ion:146 Resp: 15626
Ion Ratio Lower Upper
146 100
111 165.7 19.1 57.3#
148 63.2 32.6 97.8

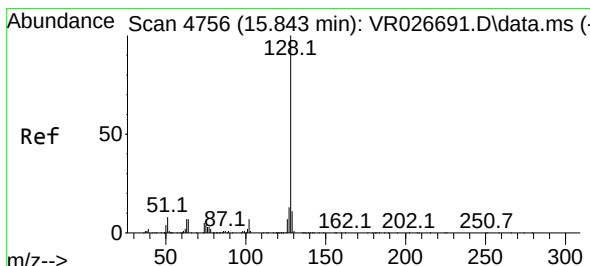
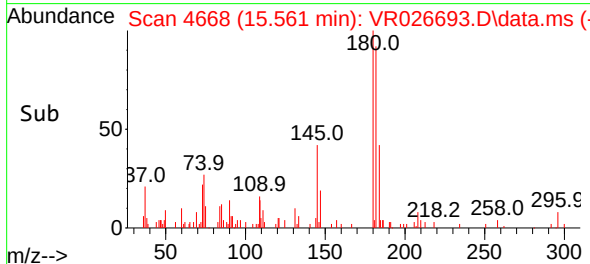
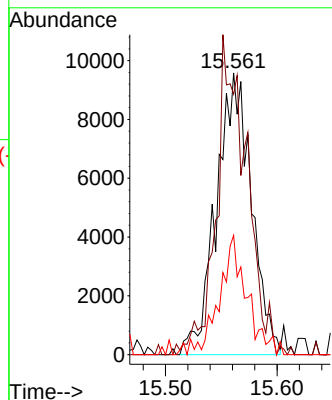
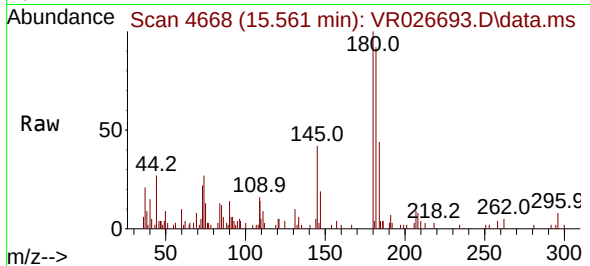




#92
1,2,4-Trichlorobenzene
Concen: 0.675 ug/l
RT: 15.561 min Scan# 4668
Delta R.T. 0.000 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

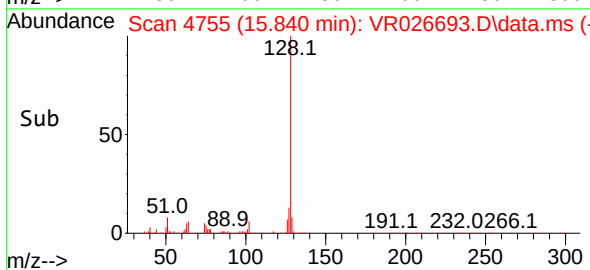
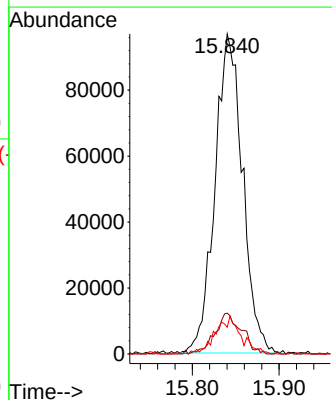
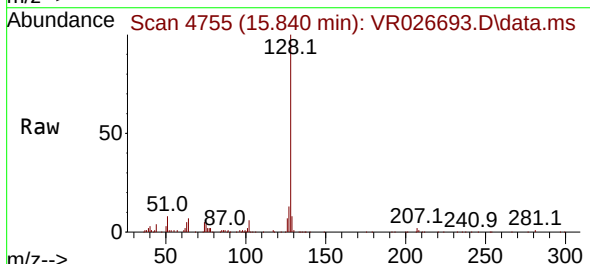
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

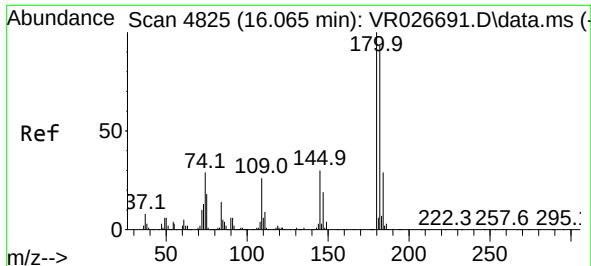
Tgt Ion:180 Resp: 20909
Ion Ratio Lower Upper
180 100
182 83.2 47.0 141.0
145 32.0 15.2 45.5



#94
Naphthalene
Concen: 2.254 ug/l
RT: 15.840 min Scan# 4755
Delta R.T. -0.003 min
Lab File: VR026693.D
Acq: 4 Aug 2025 12:53

Tgt Ion:128 Resp: 214057
Ion Ratio Lower Upper
128 100
127 12.3 9.8 14.8
129 9.1 8.6 13.0





#95

1,2,3-Trichlorobenzene

Concen: 0.960 ug/l

RT: 16.068 min Scan# 41

Delta R.T. 0.003 min

Lab File: VR026693.D

Acq: 4 Aug 2025 12:53

Instrument :

MSVOA_R

ClientSampleId :

VIBLK

Tgt Ion:180 Resp: 28238

Ion Ratio Lower Upper

180 100

182 38.1 47.2 141.6#

145 17.6 15.5 46.5

