

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW112625\
 Data File : VW032543.D
 Acq On : 26 Nov 2025 14:58
 Operator : SY/MD
 Sample : Q3719-04
 Misc : 4.14g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 27 00:28:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

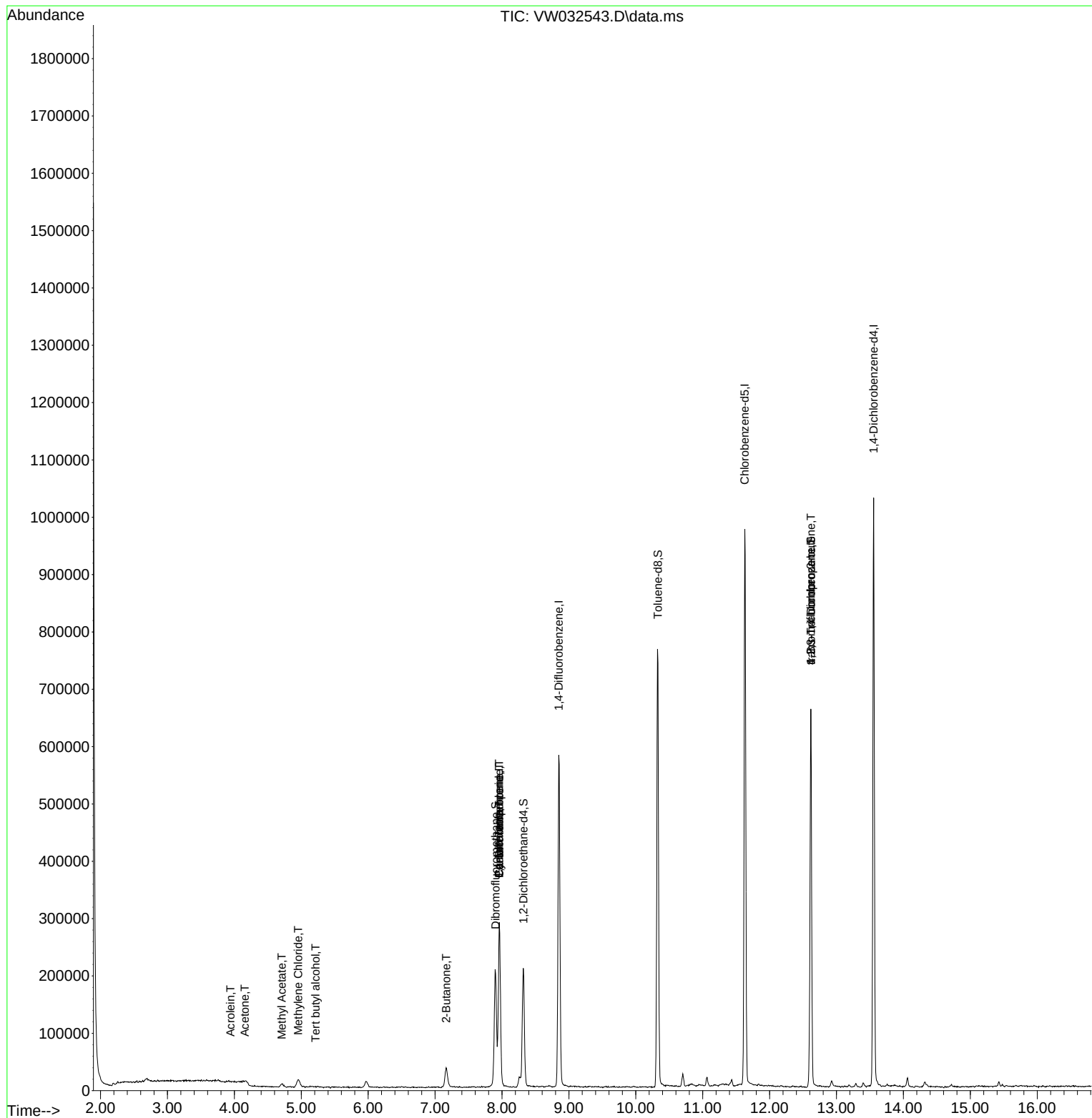
Internal Standards						
1) Pentafluorobenzene	7.959	168	183438	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	469951	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	532584	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	255138	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	169854	71.821	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 143.640%			
35) Dibromofluoromethane	7.904	113	150929	53.641	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 107.280%			
50) Toluene-d8	10.331	98	509971	47.244	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 94.480%			
62) 4-Bromofluorobenzene	12.617	95	224746	55.116	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 110.240%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.216	59	260	1.271	ug/l #	1
13) Acrolein	3.942	56	374	1.090	ug/l #	14
16) Acetone	4.155	43	3402	4.808	ug/l	94
18) Methyl Acetate	4.710	43	11302	6.451	ug/l	99
20) Methylene Chloride	4.954	84	11927	4.714	ug/l	93
25) 2-Butanone	7.167	43	2212	2.122	ug/l #	81
31) Cyclohexane	7.959	56	5531	1.414	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	18651	4.499	ug/l #	51
38) Carbon Tetrachloride	7.959	117	22047	5.985	ug/l #	17
76) 1,2,3-Trichloropropane	12.617	75	119925	34.280	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	119925	78.517	ug/l #	11

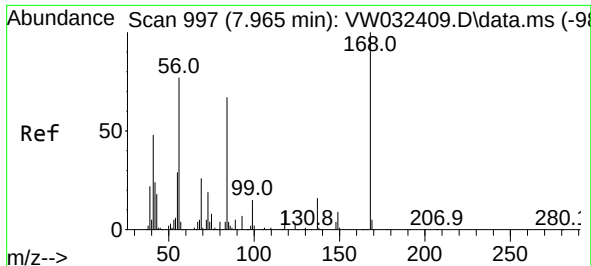
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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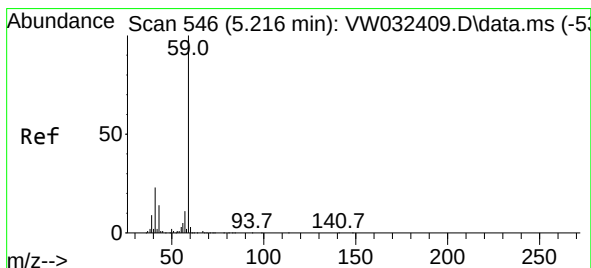
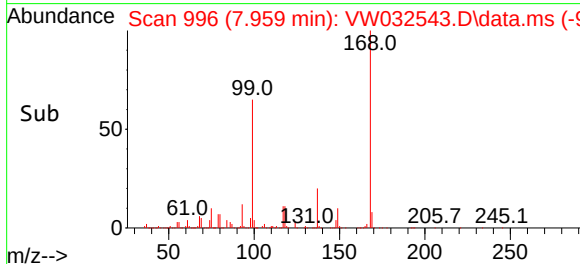
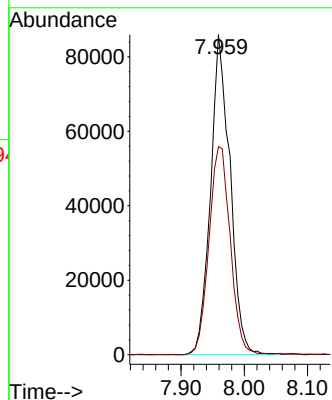
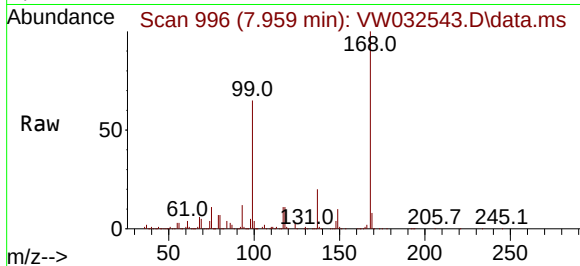




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032543.D
Acq: 26 Nov 2025 14:58

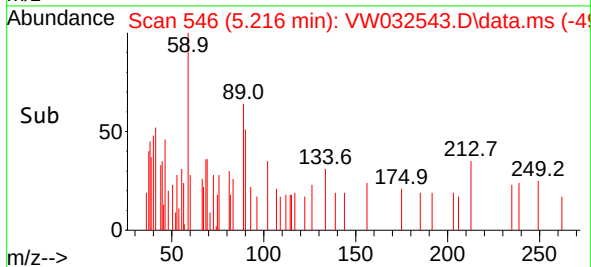
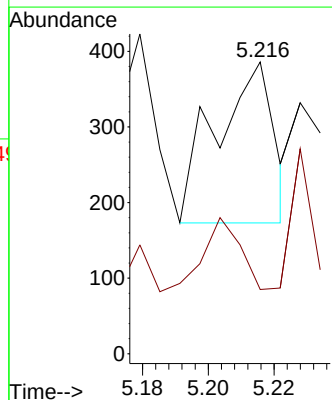
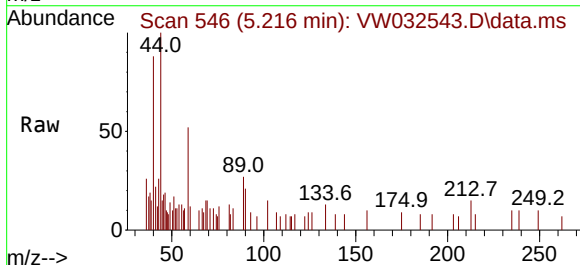
Instrument :
MSVOA_W
ClientSampleId :

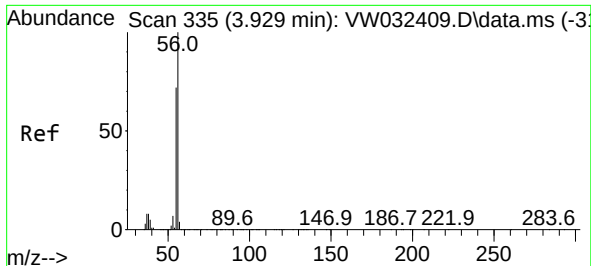
Tgt Ion:168 Resp: 183438
Ion Ratio Lower Upper
168 100
99 64.9 45.4 68.2



#11
Tert butyl alcohol
Concen: 1.271 ug/l
RT: 5.216 min Scan# 546
Delta R.T. 0.000 min
Lab File: VW032543.D
Acq: 26 Nov 2025 14:58

Tgt Ion: 59 Resp: 260
Ion Ratio Lower Upper
59 100
57 65.8 8.6 12.8#

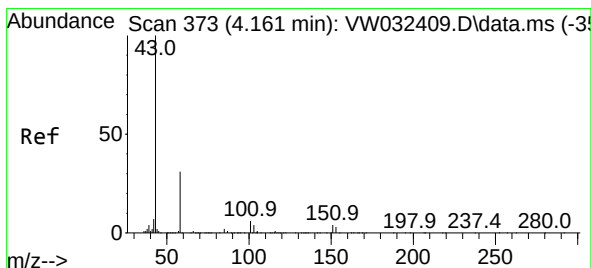
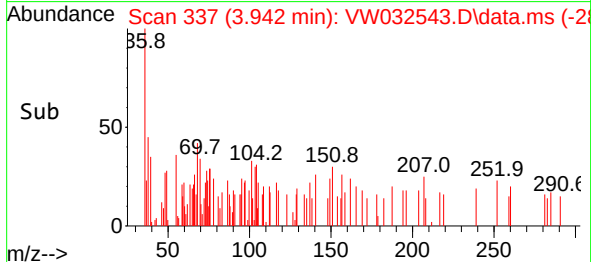
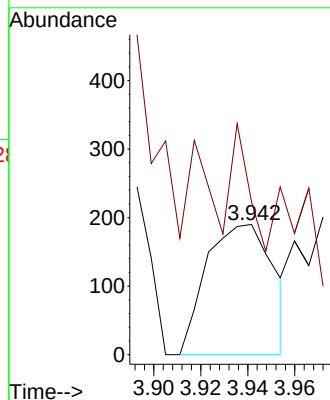
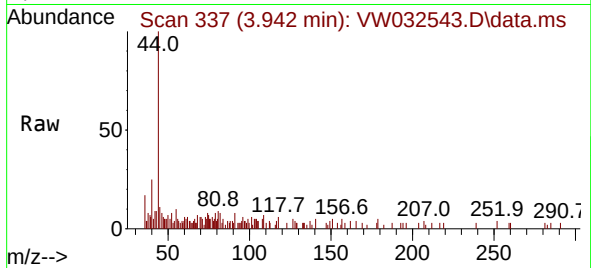




#13
Acrolein
Concen: 1.090 ug/l
RT: 3.942 min Scan# 31
Delta R.T. 0.012 min
Lab File: VW032543.D
Acq: 26 Nov 2025 14:58

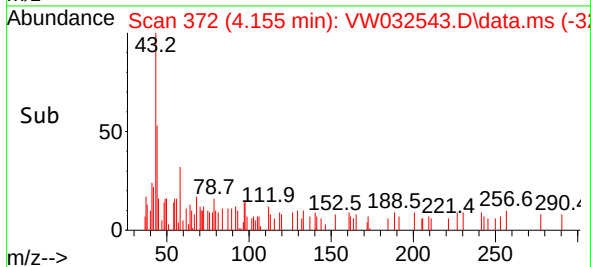
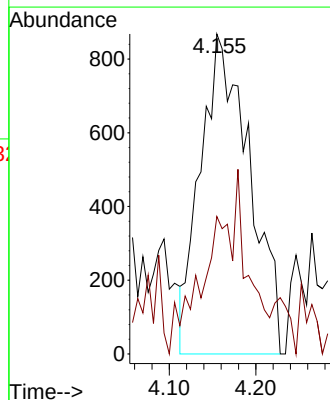
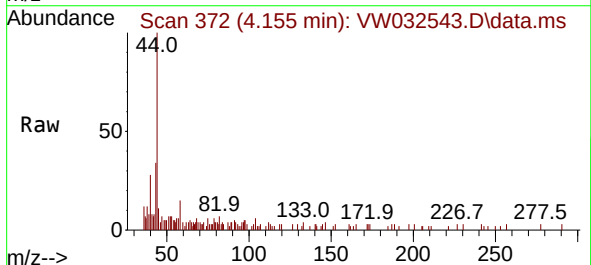
Instrument :
MSVOA_W
ClientSampleId :

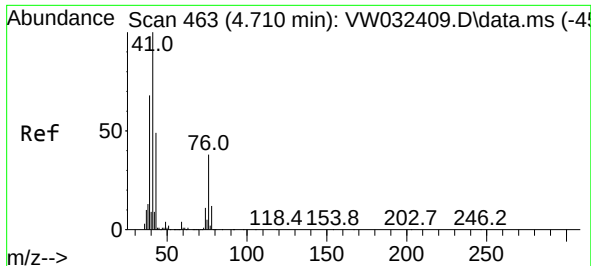
Tgt Ion: 56 Resp: 374
Ion Ratio Lower Upper
56 100
55 0.0 56.3 84.5#



#16
Acetone
Concen: 4.808 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032543.D
Acq: 26 Nov 2025 14:58

Tgt Ion: 43 Resp: 3402
Ion Ratio Lower Upper
43 100
58 34.1 24.8 37.2

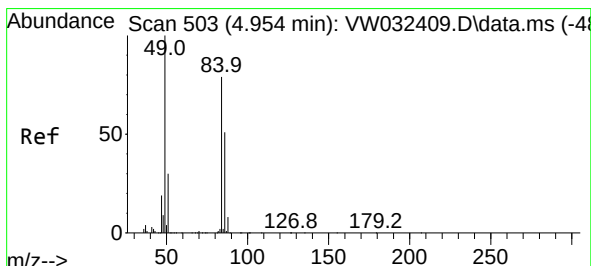
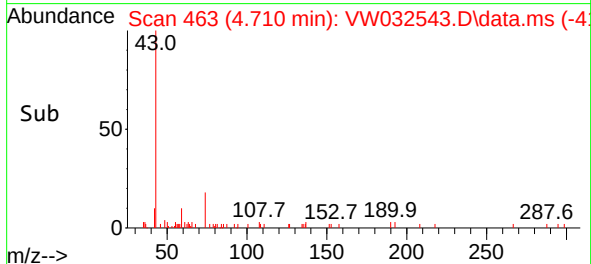
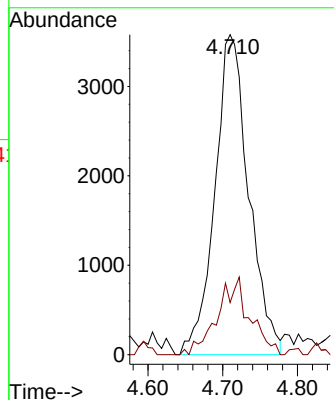
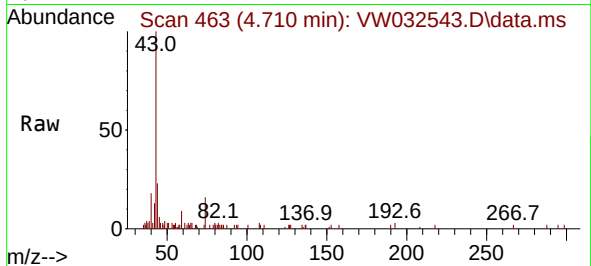




#18
Methyl Acetate
Concen: 6.451 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032543.D
Acq: 26 Nov 2025 14:58

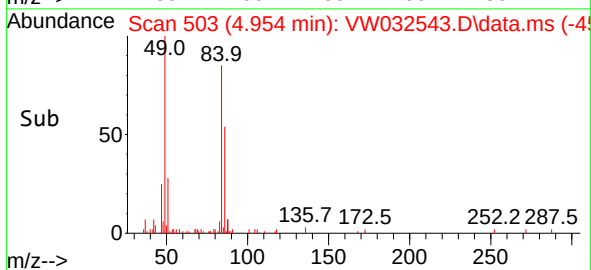
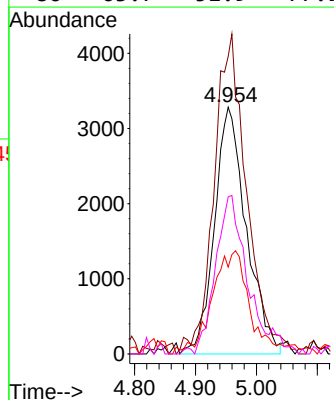
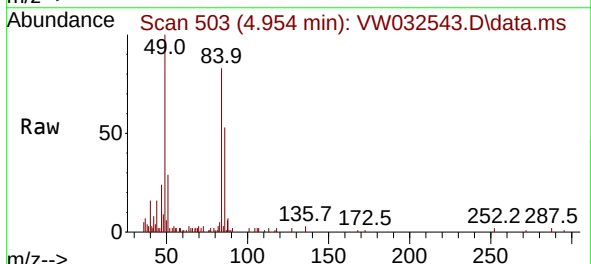
Instrument :
MSVOA_W
ClientSampleId :

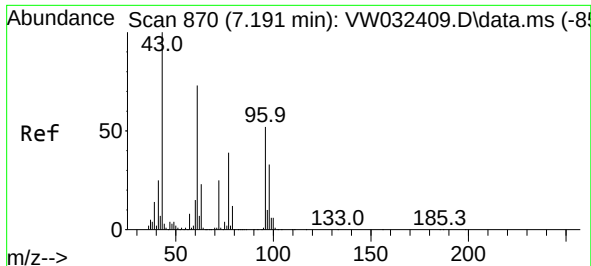
Tgt Ion: 43 Resp: 11302
Ion Ratio Lower Upper
43 100
74 23.0 18.9 28.3



#20
Methylene Chloride
Concen: 4.714 ug/l
RT: 4.954 min Scan# 503
Delta R.T. 0.000 min
Lab File: VW032543.D
Acq: 26 Nov 2025 14:58

Tgt Ion: 84 Resp: 11927
Ion Ratio Lower Upper
84 100
49 116.3 101.5 152.3
51 33.5 30.6 46.0
86 63.7 51.9 77.9

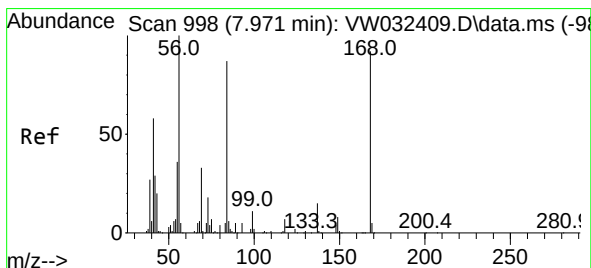
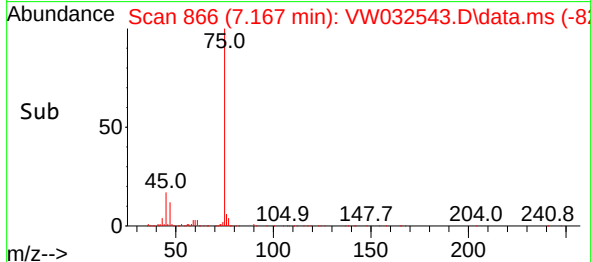
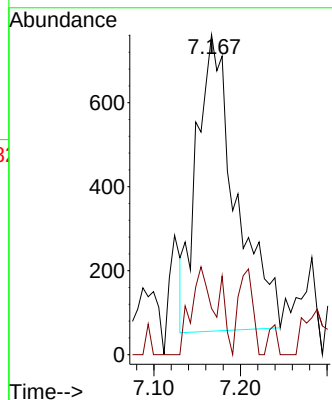
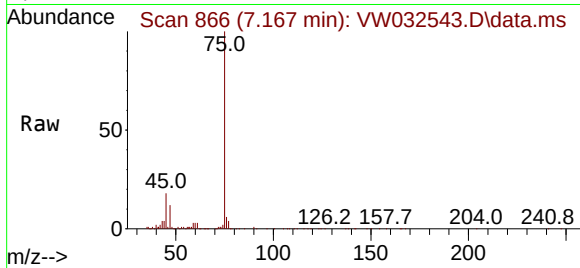




#25
2-Butanone
Concen: 2.122 ug/l
RT: 7.167 min Scan# 80
Delta R.T. -0.024 min
Lab File: VW032543.D
Acq: 26 Nov 2025 14:58

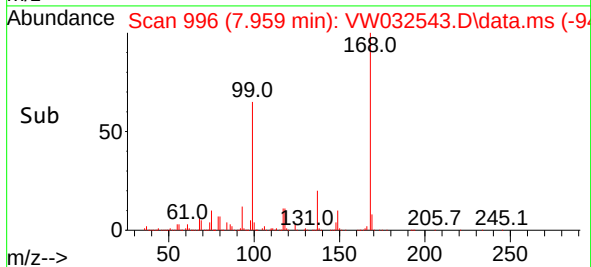
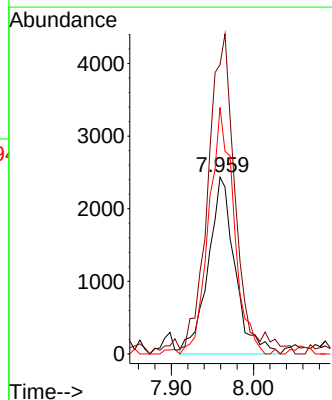
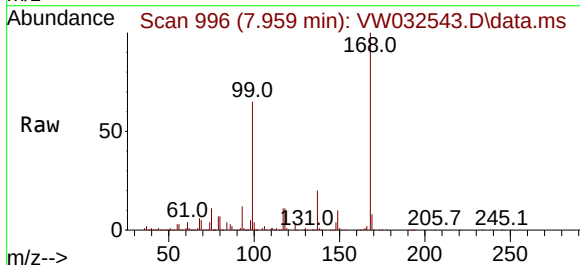
Instrument :
MSVOA_W
ClientSampleId :

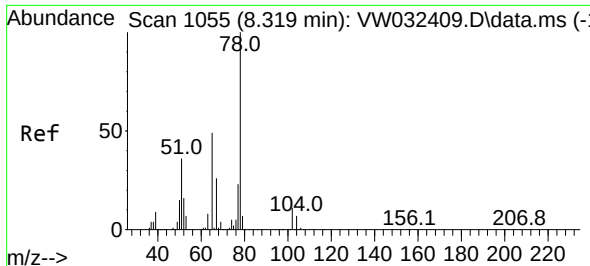
Tgt Ion: 43 Resp: 2212
Ion Ratio Lower Upper
43 100
72 34.7 20.0 30.0#



#31
Cyclohexane
Concen: 1.414 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032543.D
Acq: 26 Nov 2025 14:58

Tgt Ion: 56 Resp: 5531
Ion Ratio Lower Upper
56 100
69 160.7 26.5 39.7#
84 139.5 69.6 104.4#

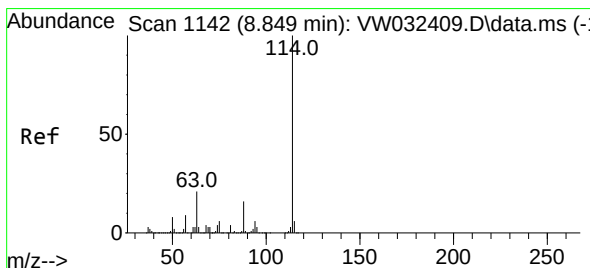
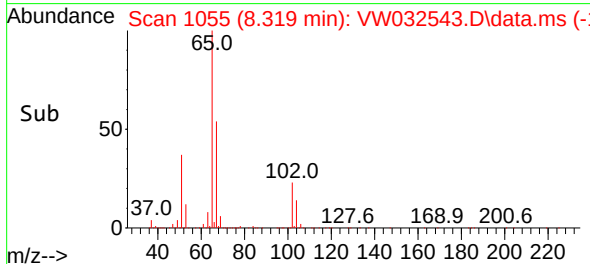
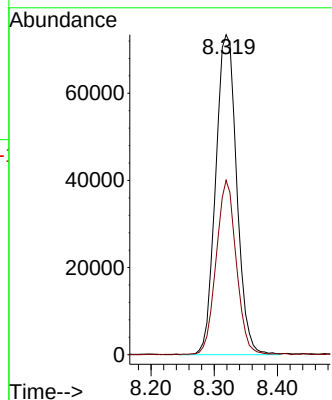
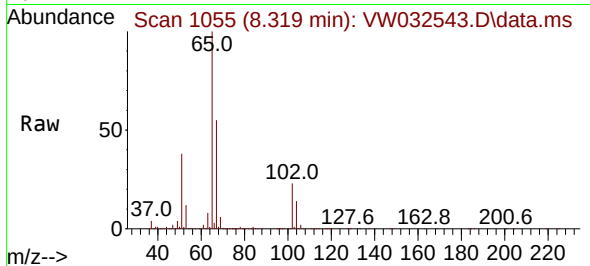




#33
 1,2-Dichloroethane-d4
 Concen: 71.821 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: VW032543.D
 Acq: 26 Nov 2025 14:58

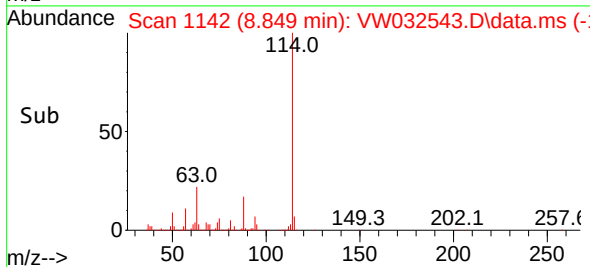
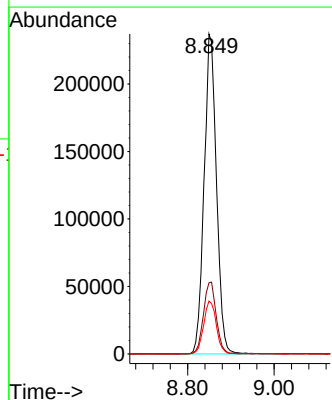
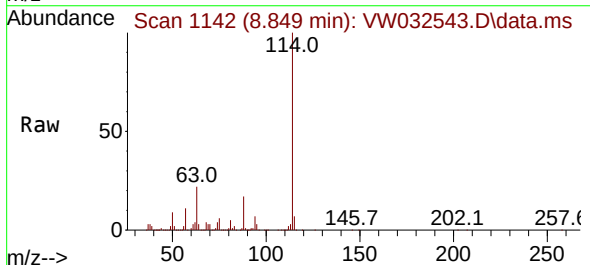
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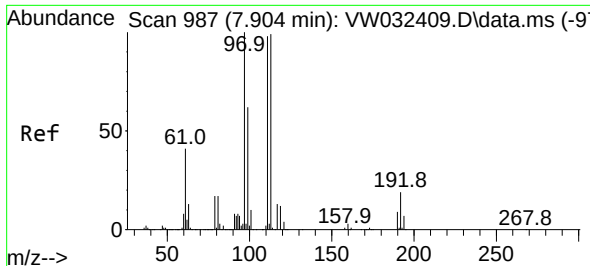
Tgt Ion: 65 Resp: 169854
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.849 min Scan# 1142
 Delta R.T. 0.000 min
 Lab File: VW032543.D
 Acq: 26 Nov 2025 14:58

Tgt Ion: 114 Resp: 469951
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 41.8
 88 16.5 0.0 32.6

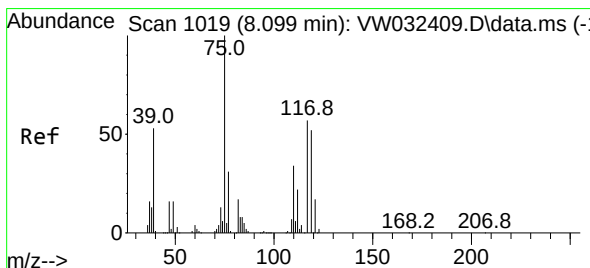
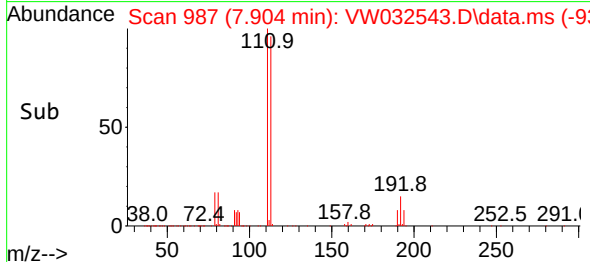
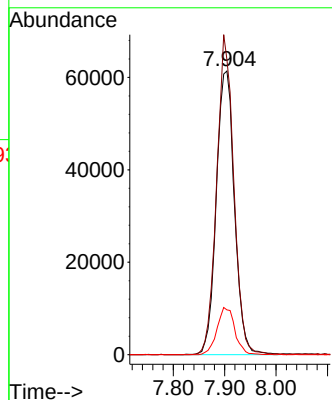
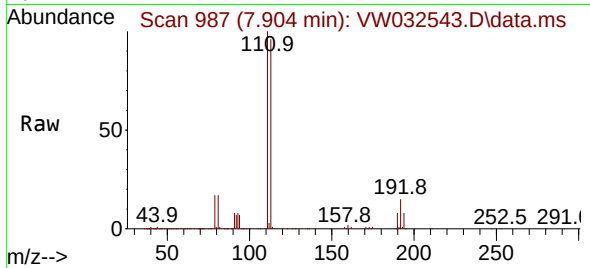




#35
Dibromofluoromethane
Concen: 53.641 ug/l
RT: 7.904 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW032543.D
Acq: 26 Nov 2025 14:58

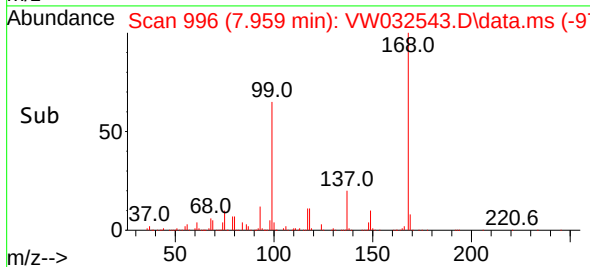
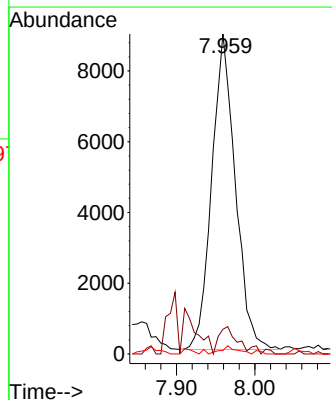
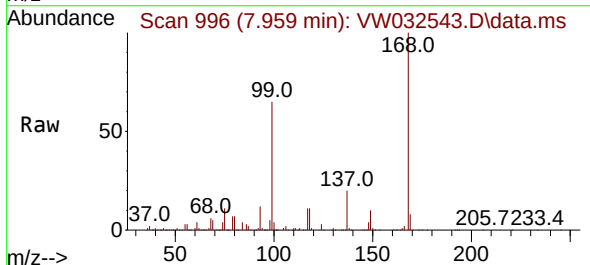
Instrument :
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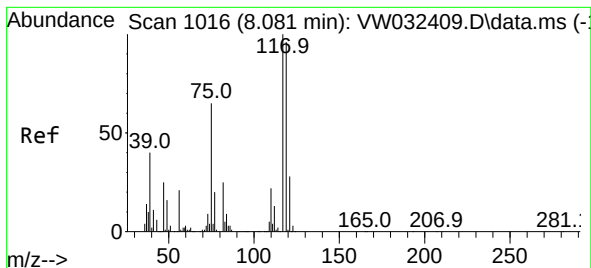
Tgt Ion:113 Resp: 150929
Ion Ratio Lower Upper
113 100
111 105.9 83.1 124.7
192 16.4 13.4 20.2



#36
1,1-Dichloropropene
Concen: 4.499 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW032543.D
Acq: 26 Nov 2025 14:58

Tgt Ion: 75 Resp: 18651
Ion Ratio Lower Upper
75 100
110 7.6 17.2 51.5#
77 1.7 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 5.985 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.122 min

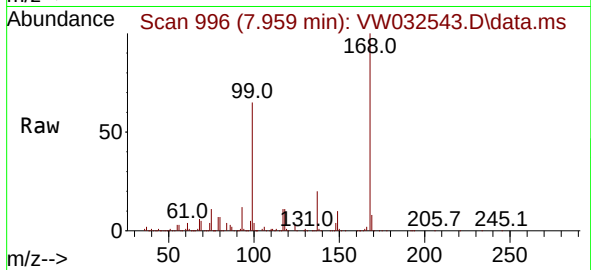
Lab File: VW032543.D

Acq: 26 Nov 2025 14:58

Instrument :

MSVOA_W

ClientSampleId :



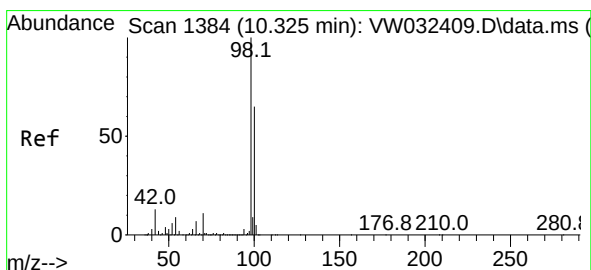
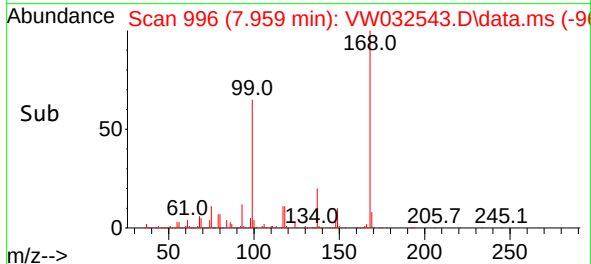
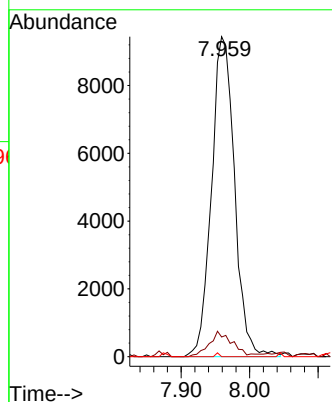
Tgt Ion:117 Resp: 22047

Ion Ratio Lower Upper

117 100

119 6.2 77.0 115.4#

121 0.0 22.0 33.0#



#50

Toluene-d8

Concen: 47.244 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW032543.D

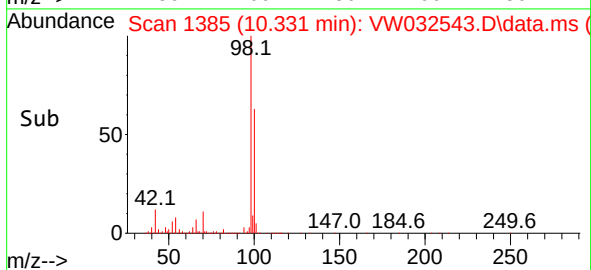
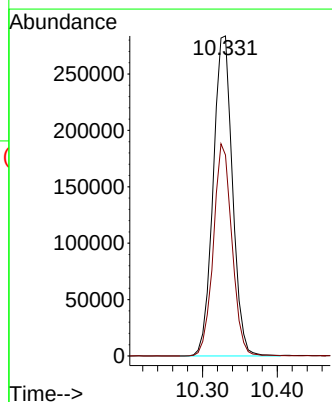
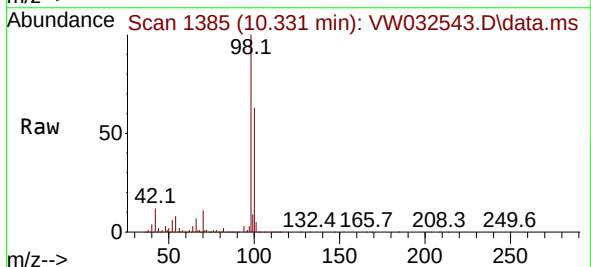
Acq: 26 Nov 2025 14:58

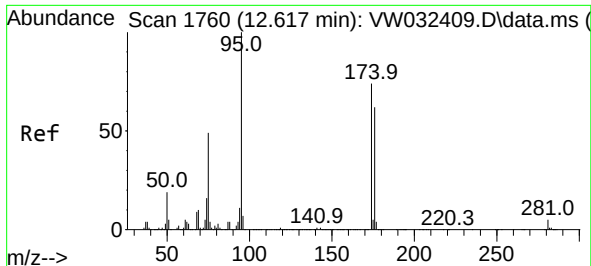
Tgt Ion: 98 Resp: 509971

Ion Ratio Lower Upper

98 100

100 63.9 53.3 79.9

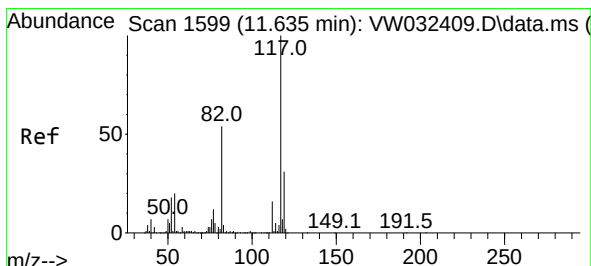
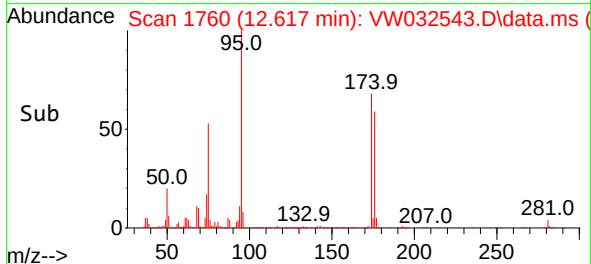
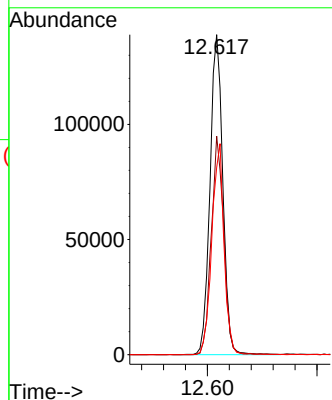
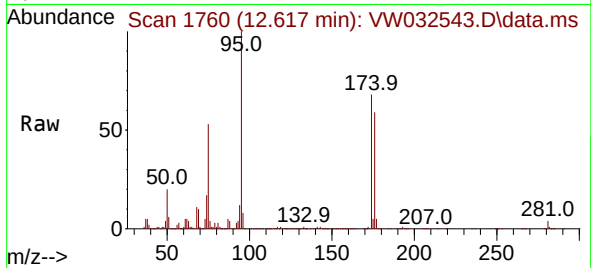




#62
4-Bromofluorobenzene
Concen: 55.116 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032543.D
Acq: 26 Nov 2025 14:58

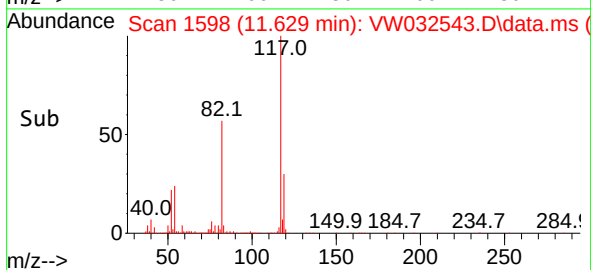
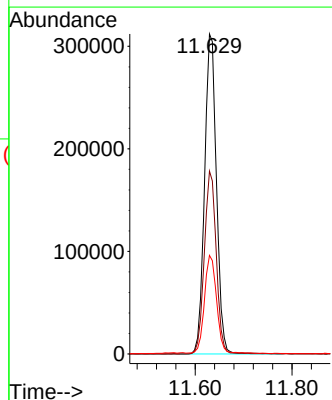
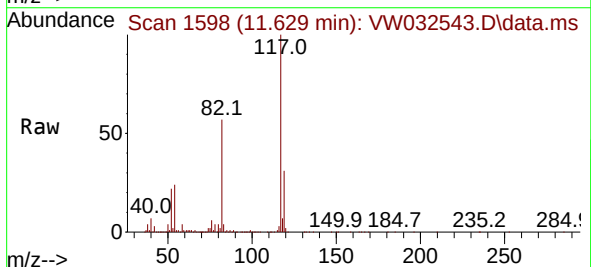
Instrument :
MSVOA_W
ClientSampleId :

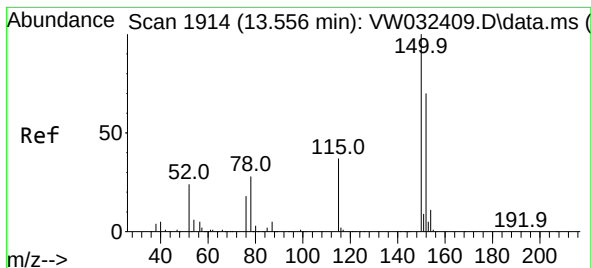
Tgt Ion: 95 Resp: 224746
Ion Ratio Lower Upper
95 100
174 66.4 0.0 135.4
176 63.0 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032543.D
Acq: 26 Nov 2025 14:58

Tgt Ion: 117 Resp: 532584
Ion Ratio Lower Upper
117 100
82 57.1 43.0 64.4
119 30.6 25.0 37.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

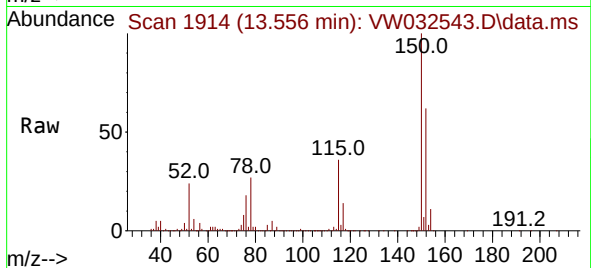
Lab File: VW032543.D

Acq: 26 Nov 2025 14:58

Instrument :

MSVOA_W

ClientSampleId :



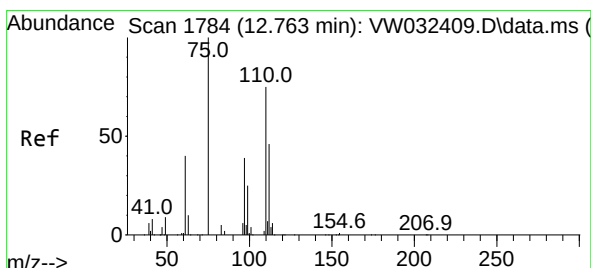
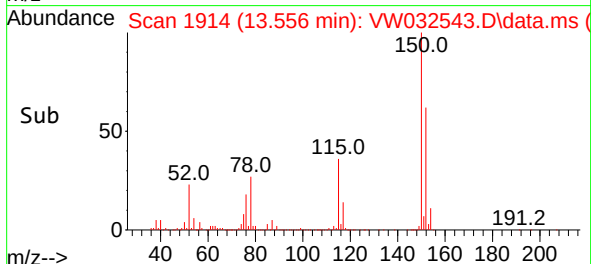
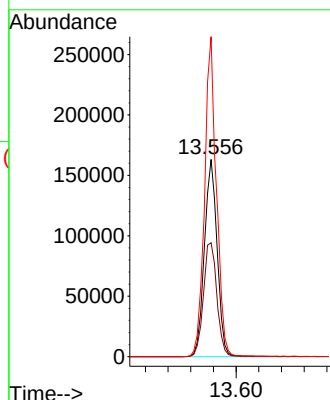
Tgt Ion:152 Resp: 255138

Ion Ratio Lower Upper

152 100

115 61.1 32.8 98.3

150 150.9 0.0 356.6



#76

1,2,3-Trichloropropane

Concen: 34.280 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. -0.146 min

Lab File: VW032543.D

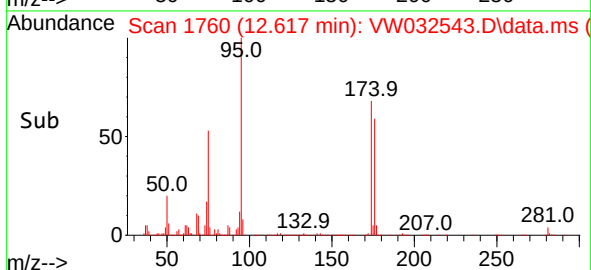
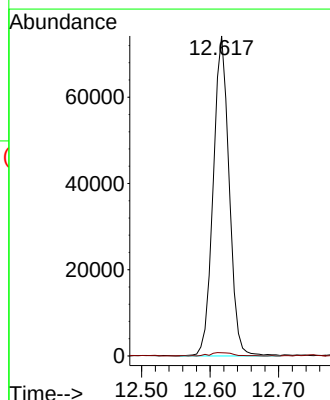
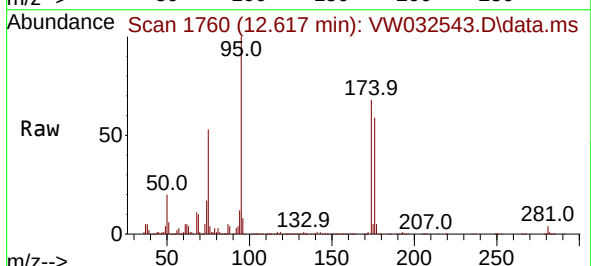
Acq: 26 Nov 2025 14:58

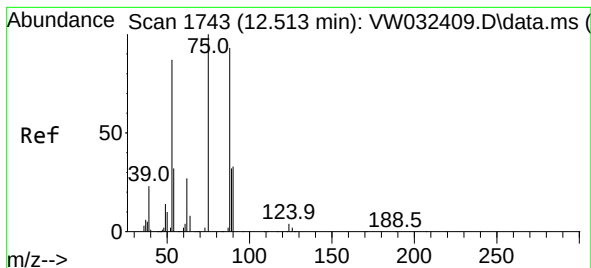
Tgt Ion: 75 Resp: 119925

Ion Ratio Lower Upper

75 100

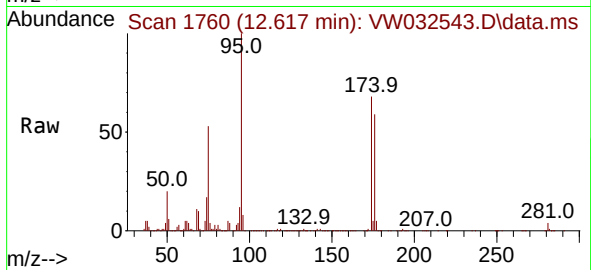
77 1.6 151.6 454.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.517 ug/l
 RT: 12.617 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VW032543.D
 Acq: 26 Nov 2025 14:58

Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion: 75 Resp: 119925
 Ion Ratio Lower Upper
 75 100
 53 0.5 77.8 116.8#
 89 0.0 35.6 53.4#

