

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080625\
 Data File : VW032031.D
 Acq On : 06 Aug 2025 16:12
 Operator : SY/MD
 Sample : Q2779-03
 Misc : 4.27g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-4-VOC

Quant Time: Aug 07 02:20:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 23 08:18:46 2025
 Response via : Initial Calibration

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

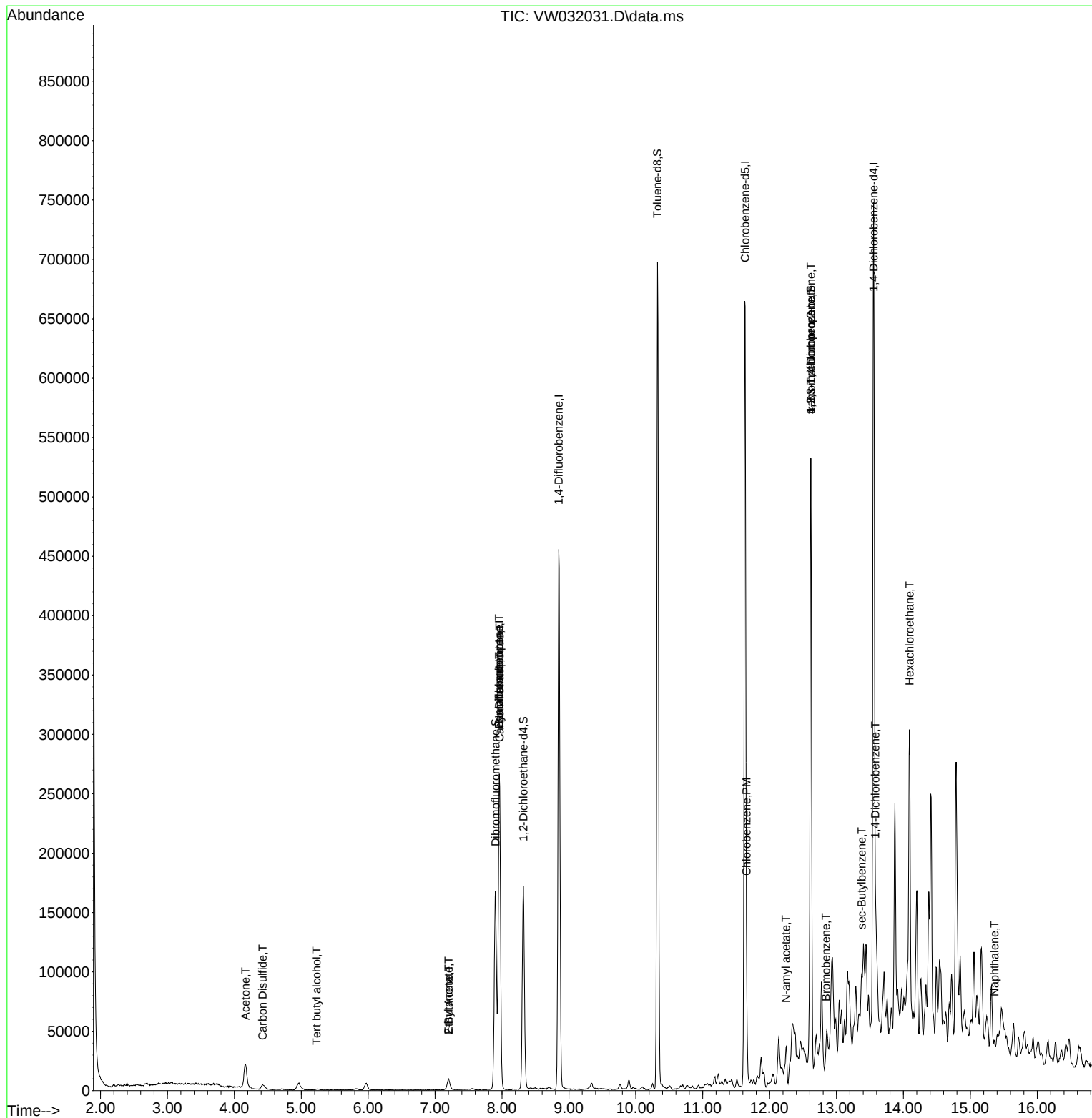
Internal Standards						
1) Pentafluorobenzene	7.959	168	191682	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	390651	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	371900	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	184189	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	142062	48.993	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	=	97.980%	
35) Dibromofluoromethane	7.904	113	124249	46.806	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	=	93.620%	
50) Toluene-d8	10.325	98	463291	46.114	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	=	92.220%	
62) 4-Bromofluorobenzene	12.617	95	184454	47.815	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	=	95.620%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.228	59	209	1.226	ug/l #	72
13) Acrolein	3.923	56	110	Below Cal	#	1
16) Acetone	4.167	43	38530	55.997	ug/l	97
17) Carbon Disulfide	4.423	76	8998	1.357	ug/l	96
20) Methylene Chloride	4.960	84	5031	Below Cal	#	91
25) 2-Butanone	7.203	43	15619	16.591	ug/l	96
31) Cyclohexane	7.959	56	5032	1.132	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	17226	4.226	ug/l #	50
37) Ethyl Acetate	7.203	43	15619	6.716	ug/l #	69
38) Carbon Tetrachloride	7.965	117	21227	5.426	ug/l #	17
65) Chlorobenzene	11.654	112	24487	2.690	ug/l	98
74) N-amyl acetate	12.245	43	6718	1.555	ug/l #	60
76) 1,2,3-Trichloropropane	12.617	75	93862	36.910	ug/l #	100
77) Bromobenzene	12.842	156	4401	1.273	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	93862	85.215	ug/l #	8
85) sec-Butylbenzene	13.379	105	21671	1.264	ug/l #	64
88) 1,4-Dichlorobenzene	13.580	146	21892	3.105	ug/l #	83
90) Hexachloroethane	14.092	117	11454	4.674	ug/l #	23
95) Naphthalene	15.360	128	12293	1.300	ug/l #	91

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

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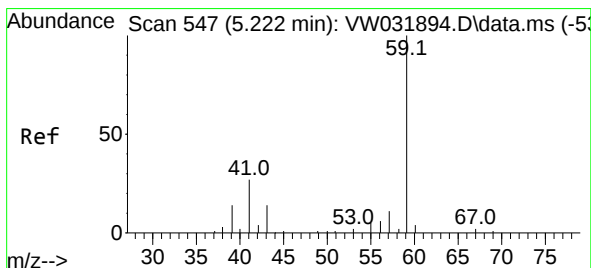
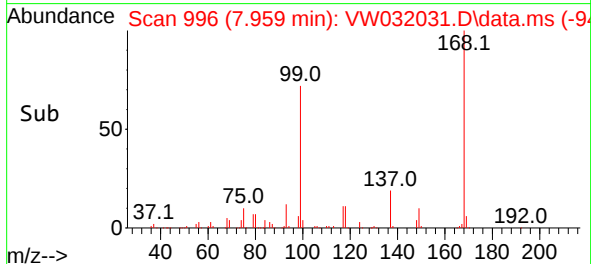
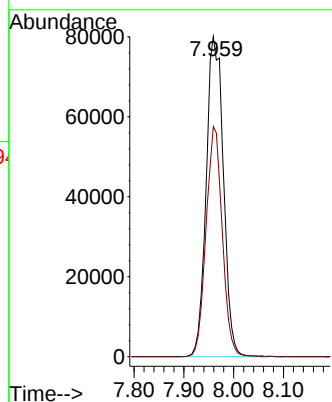
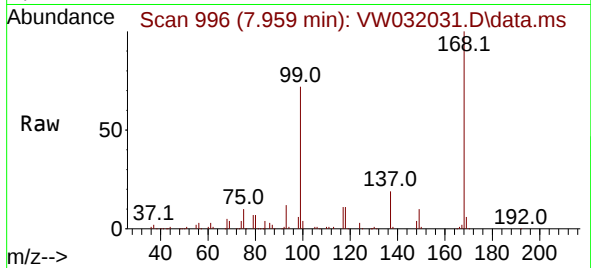




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

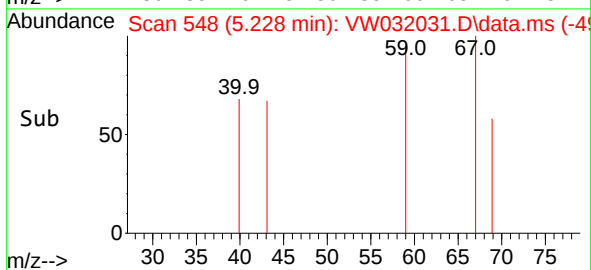
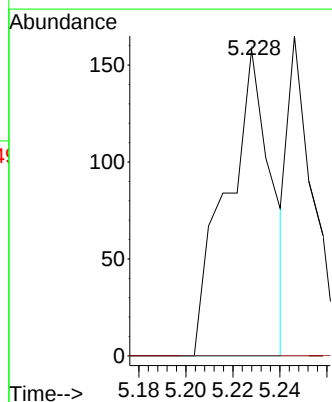
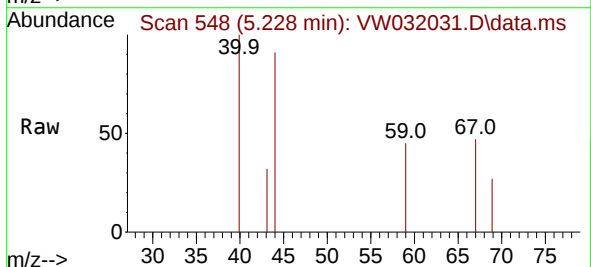
Instrument :
MSVOA_W
ClientSampleId :
TP-4-VOC

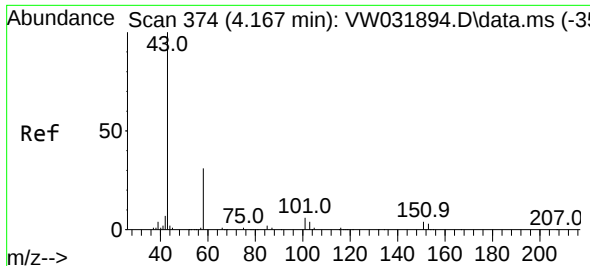
Tgt Ion:168 Resp: 191682
Ion Ratio Lower Upper
168 100
99 71.9 48.2 72.2



#11
Tert butyl alcohol
Concen: 1.226 ug/l
RT: 5.228 min Scan# 548
Delta R.T. 0.006 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

Tgt Ion: 59 Resp: 209
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

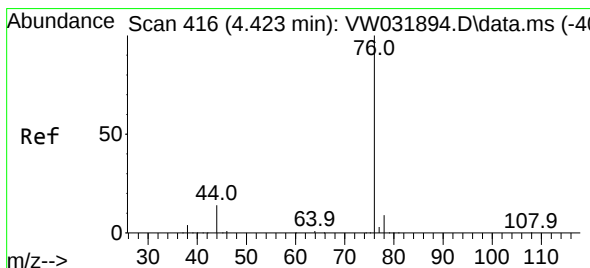
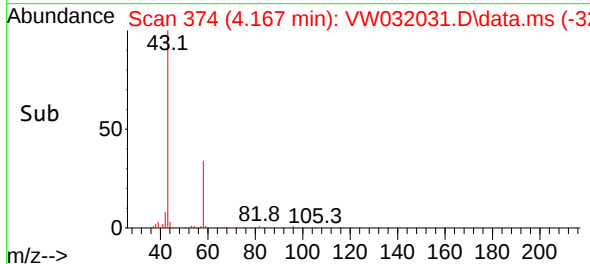
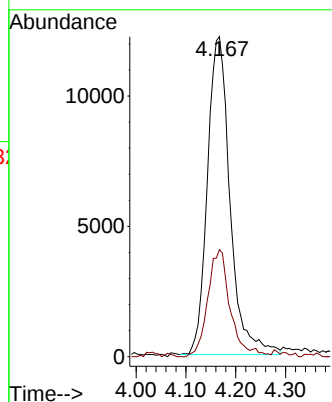
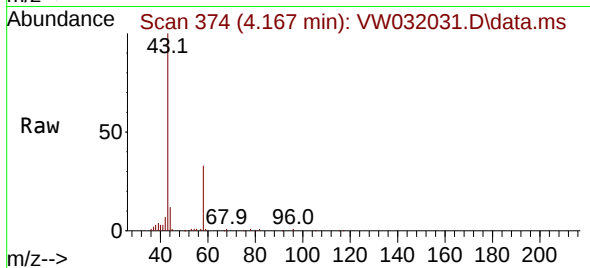




#16
Acetone
Concen: 55.997 ug/l
RT: 4.167 min Scan# 31
Delta R.T. -0.000 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

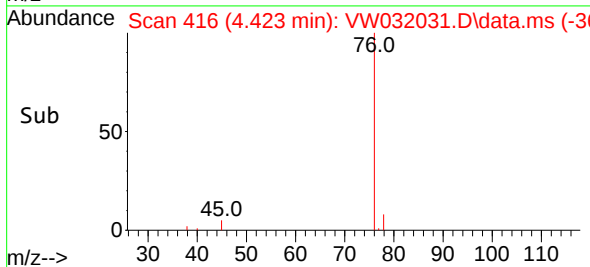
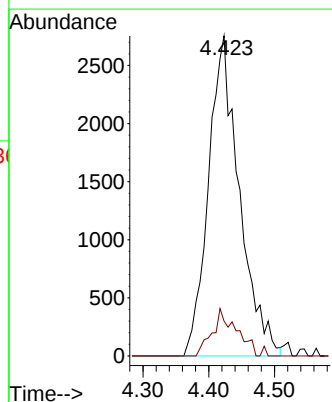
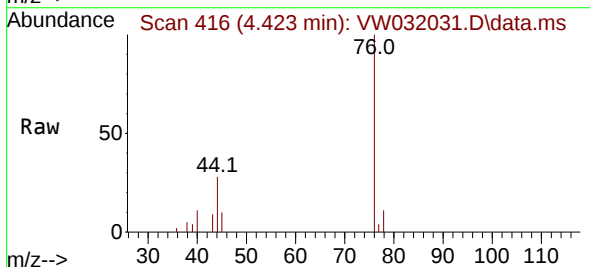
Instrument :
MSVOA_W
ClientSampleId :
TP-4-VOC

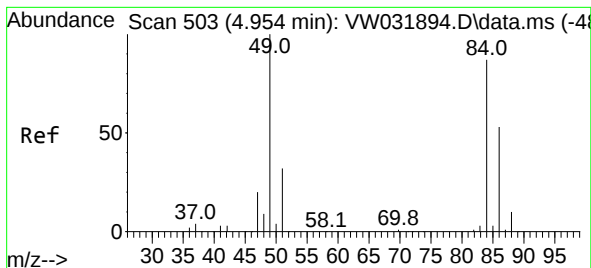
Tgt Ion: 43 Resp: 38530
Ion Ratio Lower Upper
43 100
58 33.7 25.5 38.3



#17
Carbon Disulfide
Concen: 1.357 ug/l
RT: 4.423 min Scan# 416
Delta R.T. -0.000 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

Tgt Ion: 76 Resp: 8998
Ion Ratio Lower Upper
76 100
78 10.9 7.5 11.3





#20

Methylene Chloride

Concen: Below Cal

RT: 4.960 min Scan# 503

Delta R.T. 0.006 min

Lab File: VW032031.D

Acq: 06 Aug 2025 16:12

Instrument :

MSVOA_W

ClientSampleId :

TP-4-VOC

Tgt Ion: 84 Resp: 5031

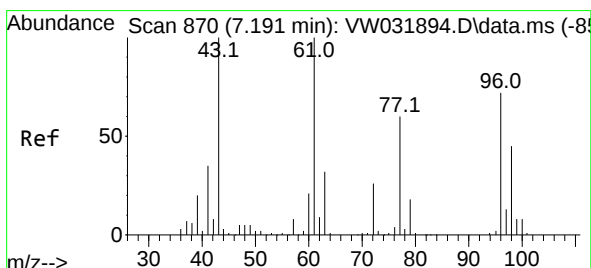
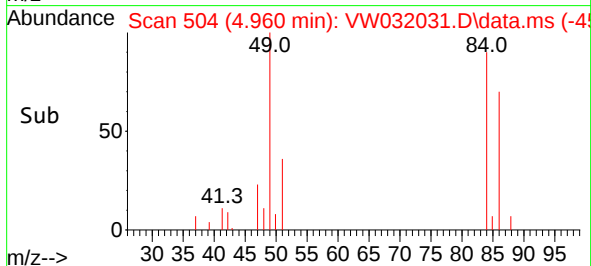
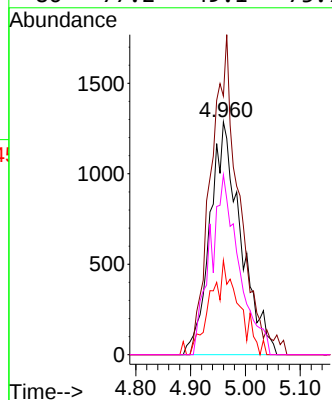
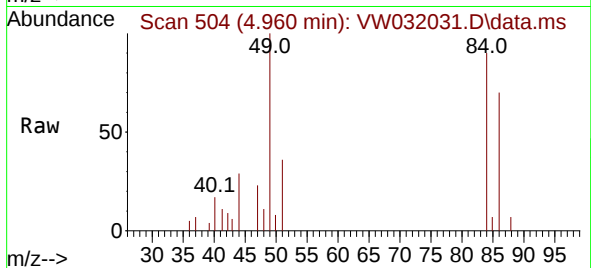
Ion Ratio Lower Upper

84 100

49 111.0 91.9 137.9

51 40.5 29.0 43.6

86 77.2 49.1 73.7#



#25

2-Butanone

Concen: 16.591 ug/l

RT: 7.203 min Scan# 872

Delta R.T. 0.012 min

Lab File: VW032031.D

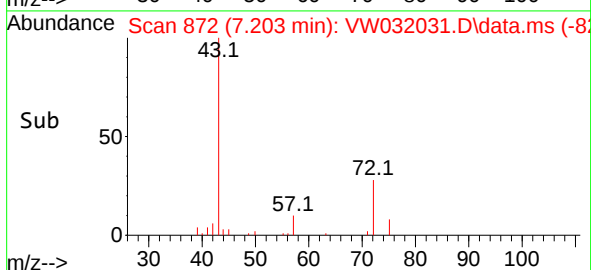
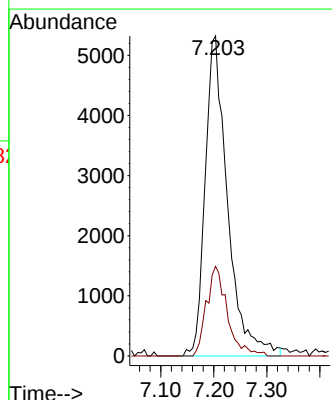
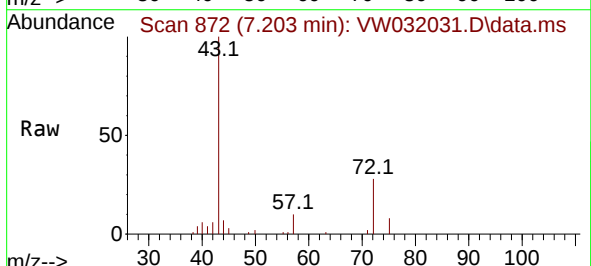
Acq: 06 Aug 2025 16:12

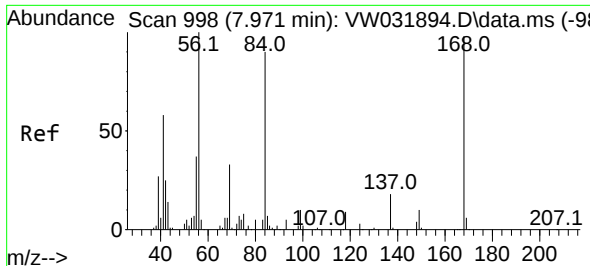
Tgt Ion: 43 Resp: 15619

Ion Ratio Lower Upper

43 100

72 28.0 20.8 31.2

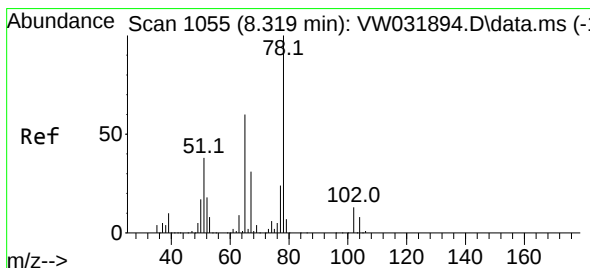
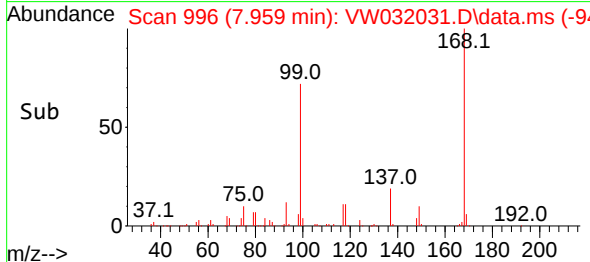
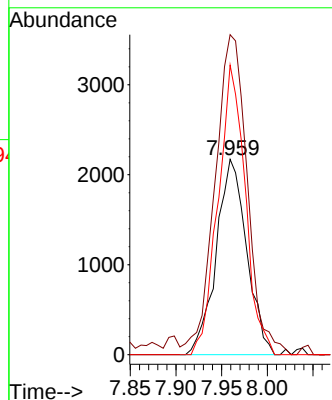
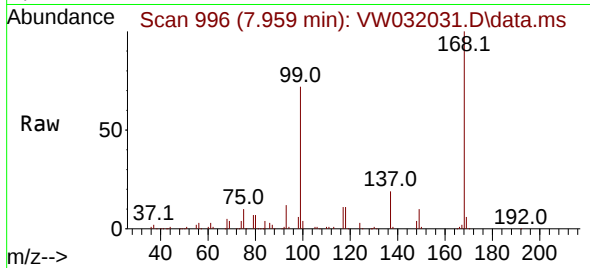




#31
Cyclohexane
Concen: 1.132 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

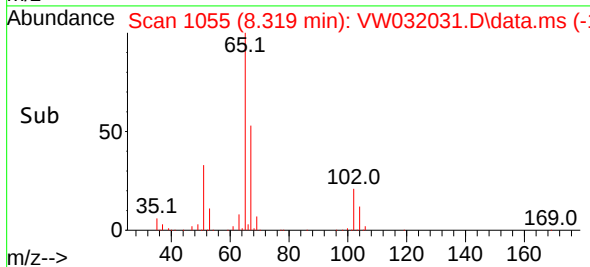
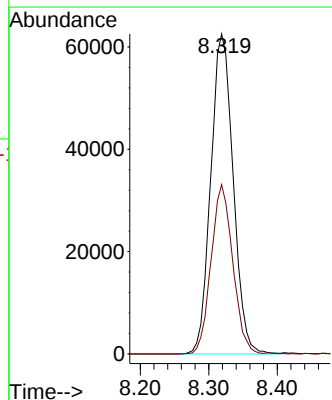
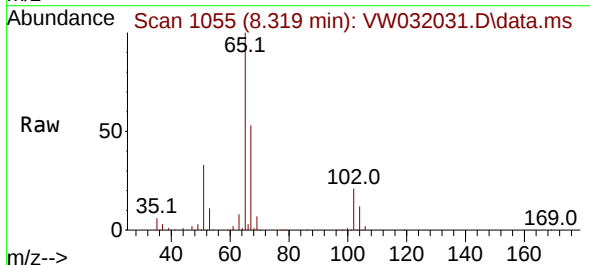
Instrument :
MSVOA_W
ClientSampleId :
TP-4-VOC

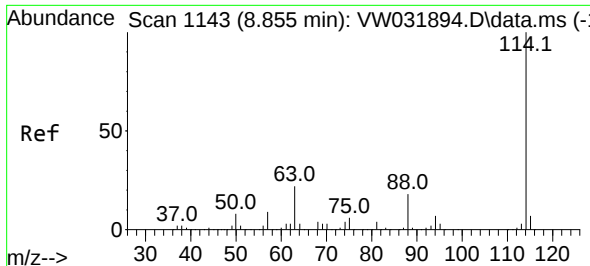
Tgt Ion: 56 Resp: 5032
Ion Ratio Lower Upper
56 100
69 159.9 26.7 40.1#
84 148.3 71.8 107.6#



#33
1,2-Dichloroethane-d4
Concen: 48.993 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

Tgt Ion: 65 Resp: 142062
Ion Ratio Lower Upper
65 100
67 51.2 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1143

Delta R.T. -0.006 min

Lab File: VW032031.D

Acq: 06 Aug 2025 16:12

Instrument :

MSVOA_W

ClientSampleId :

TP-4-VOC

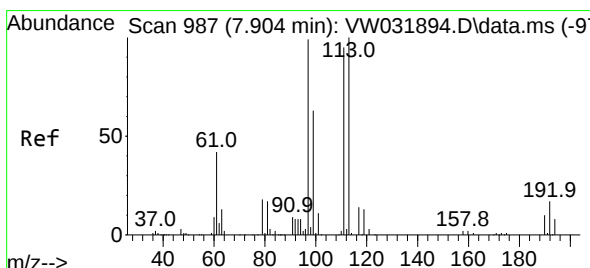
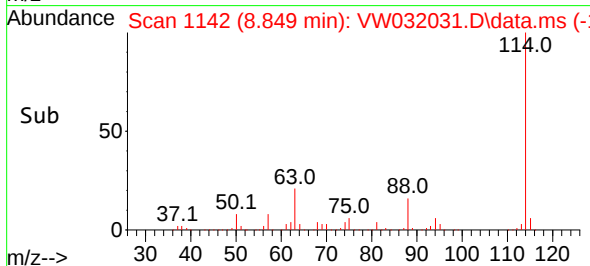
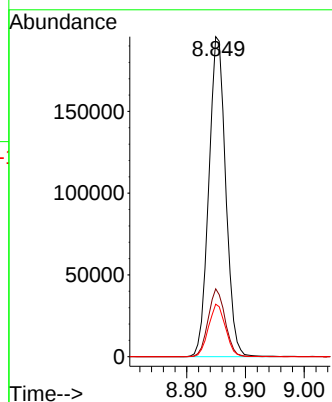
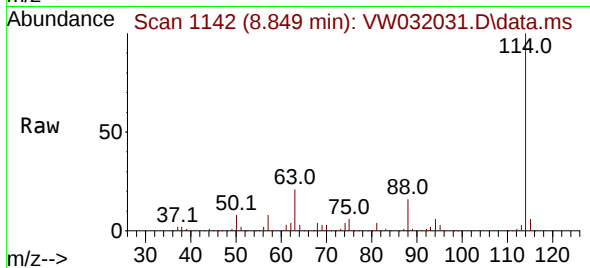
Tgt Ion:114 Resp: 390651

Ion Ratio Lower Upper

114 100

63 21.2 0.0 44.2

88 16.4 0.0 35.6



#35

Dibromofluoromethane

Concen: 46.806 ug/l

RT: 7.904 min Scan# 987

Delta R.T. -0.000 min

Lab File: VW032031.D

Acq: 06 Aug 2025 16:12

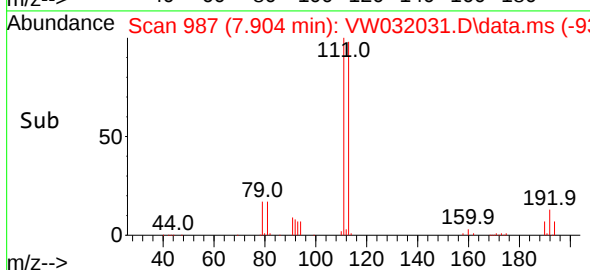
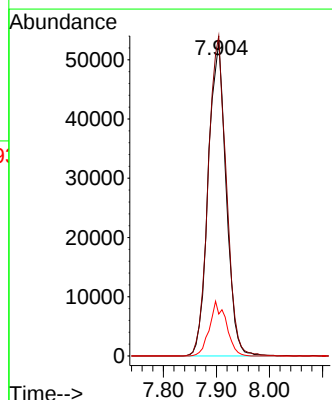
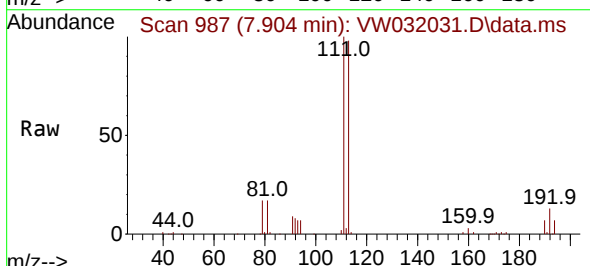
Tgt Ion:113 Resp: 124249

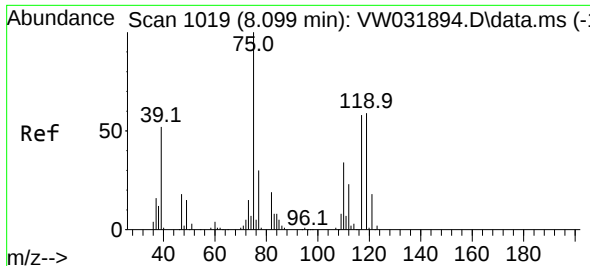
Ion Ratio Lower Upper

113 100

111 102.9 79.9 119.9

192 16.4 12.6 19.0

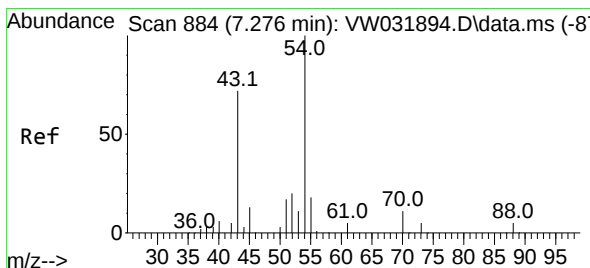
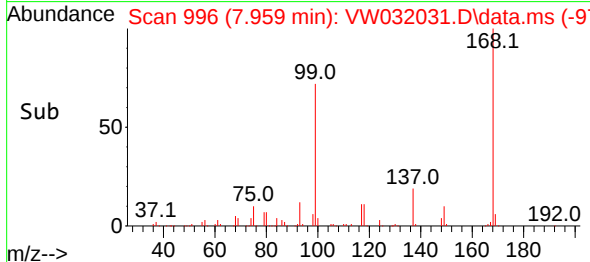
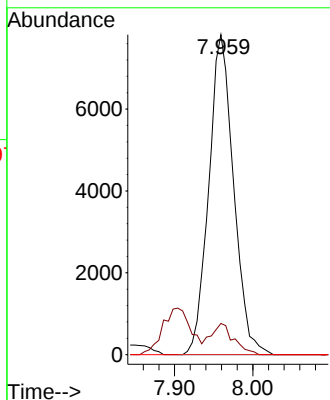
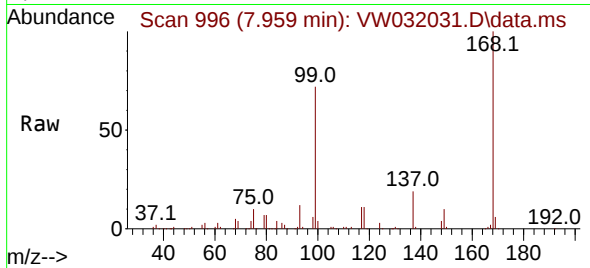




#36
 1,1-Dichloropropene
 Concen: 4.226 ug/l
 RT: 7.959 min Scan# 91
 Delta R.T. -0.140 min
 Lab File: VW032031.D
 Acq: 06 Aug 2025 16:12

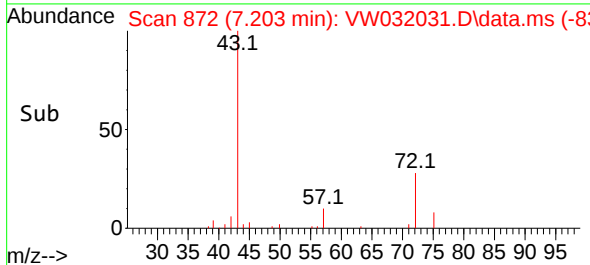
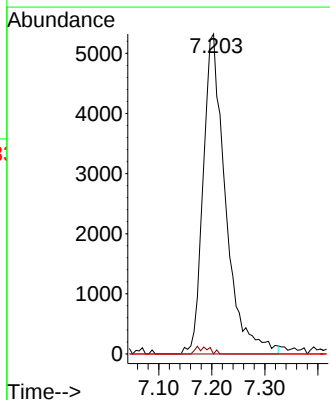
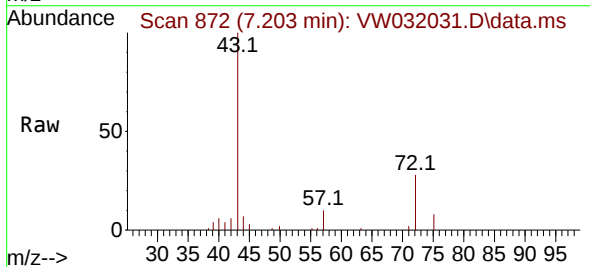
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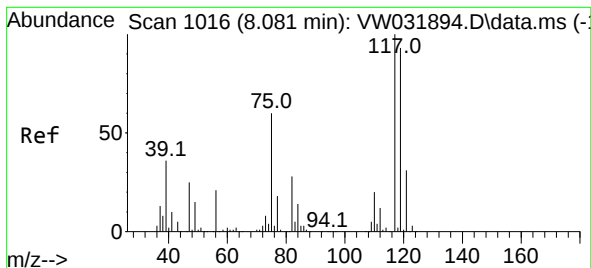
Tgt Ion: 75 Resp: 17226
 Ion Ratio Lower Upper
 75 100
 110 9.1 17.0 50.9#
 77 0.0 25.1 37.7#



#37
 Ethyl Acetate
 Concen: 6.716 ug/l
 RT: 7.203 min Scan# 872
 Delta R.T. -0.073 min
 Lab File: VW032031.D
 Acq: 06 Aug 2025 16:12

Tgt Ion: 43 Resp: 15619
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 9.0 13.4#





#38

Carbon Tetrachloride

Concen: 5.426 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.116 min

Lab File: VW032031.D

Acq: 06 Aug 2025 16:12

Instrument :

MSVOA_W

ClientSampleId :

TP-4-VOC

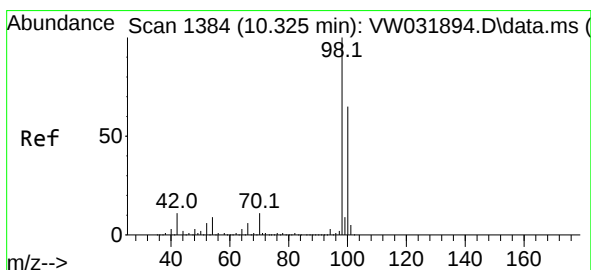
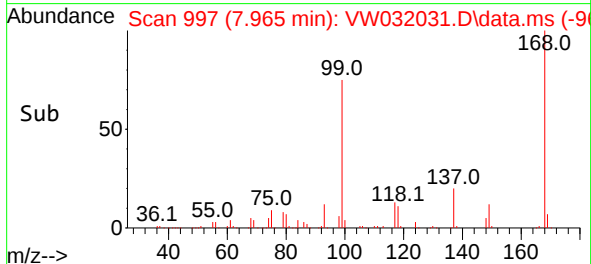
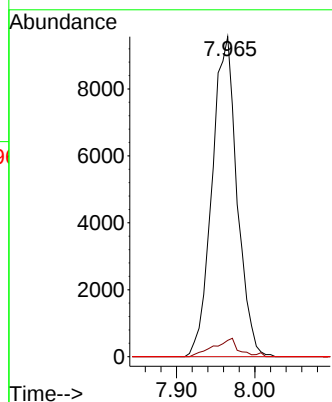
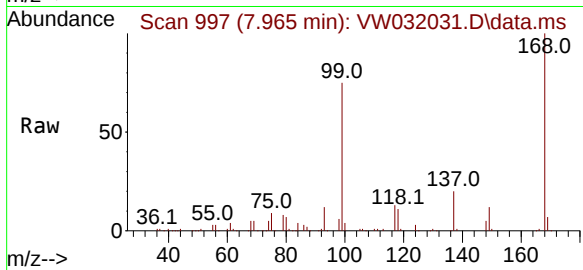
Tgt Ion:117 Resp: 21227

Ion Ratio Lower Upper

117 100

119 5.1 74.3 111.5#

121 0.0 24.6 37.0#



#50

Toluene-d8

Concen: 46.114 ug/l

RT: 10.325 min Scan# 1384

Delta R.T. -0.000 min

Lab File: VW032031.D

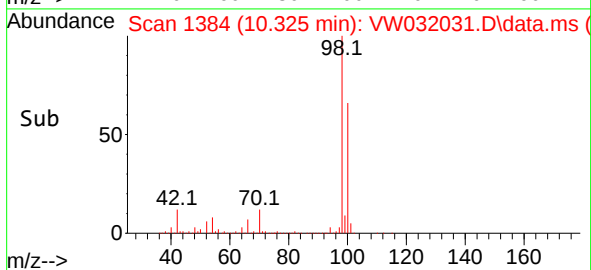
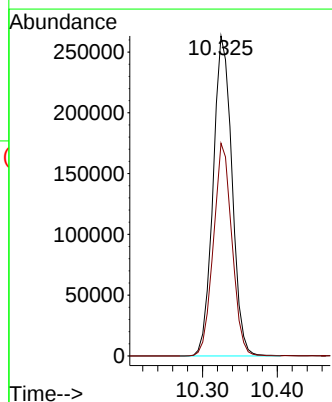
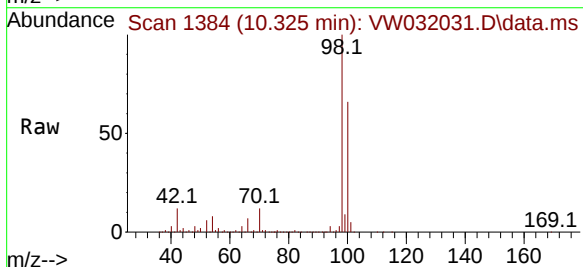
Acq: 06 Aug 2025 16:12

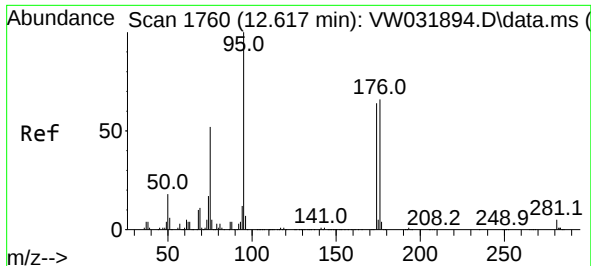
Tgt Ion: 98 Resp: 463291

Ion Ratio Lower Upper

98 100

100 65.1 51.7 77.5

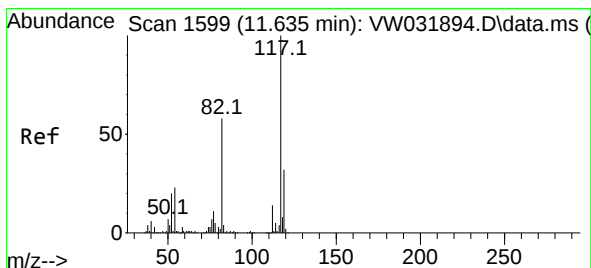
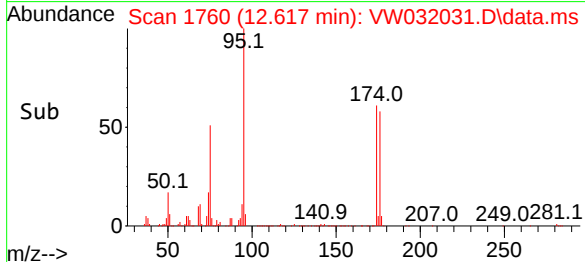
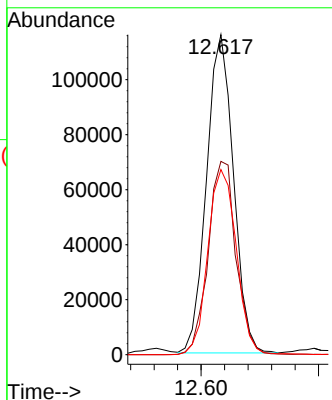
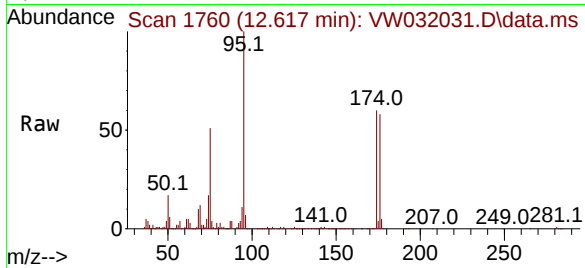




#62
4-Bromofluorobenzene
Concen: 47.815 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

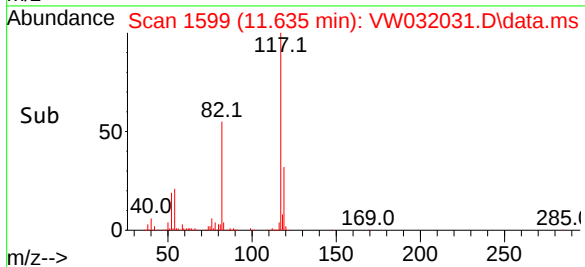
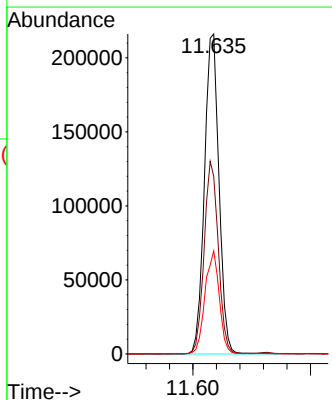
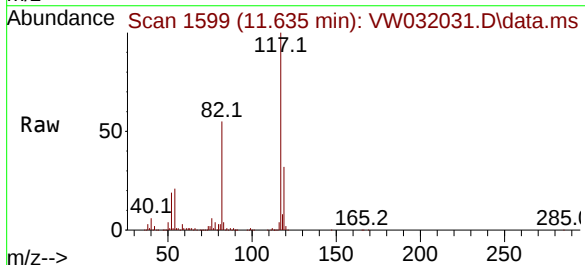
Instrument :
MSVOA_W
ClientSampleId :
TP-4-VOC

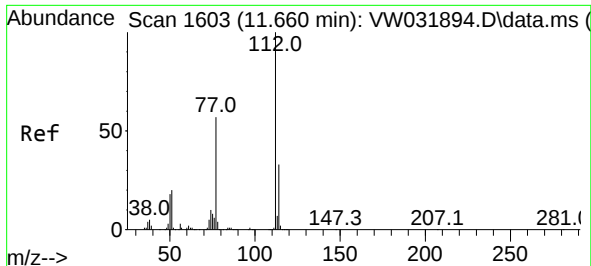
Tgt Ion: 95 Resp: 184454
Ion Ratio Lower Upper
95 100
174 63.1 0.0 129.8
176 61.7 0.0 130.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

Tgt Ion: 117 Resp: 371900
Ion Ratio Lower Upper
117 100
82 55.4 46.5 69.7
119 32.1 25.8 38.6

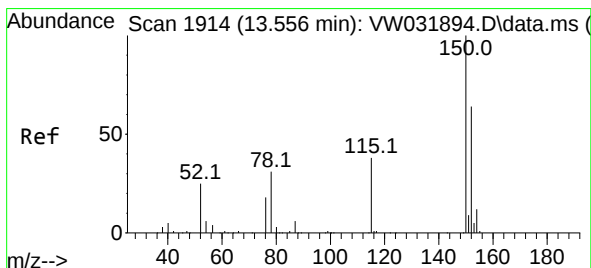
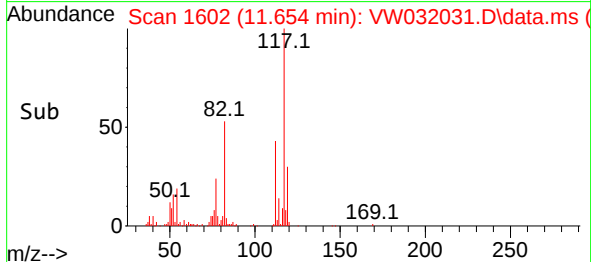
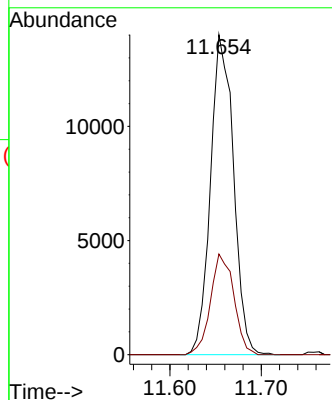
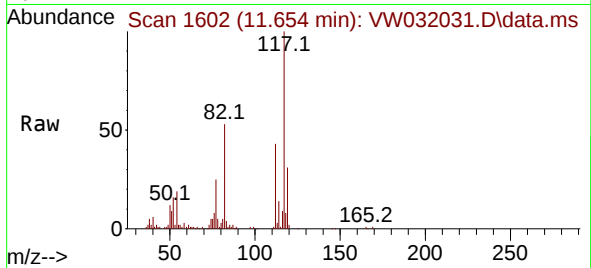




#65
Chlorobenzene
Concen: 2.690 ug/l
RT: 11.654 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

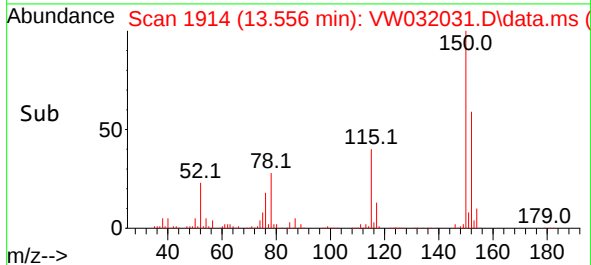
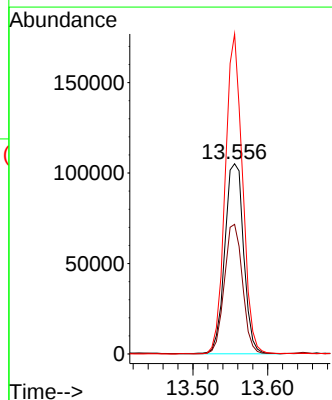
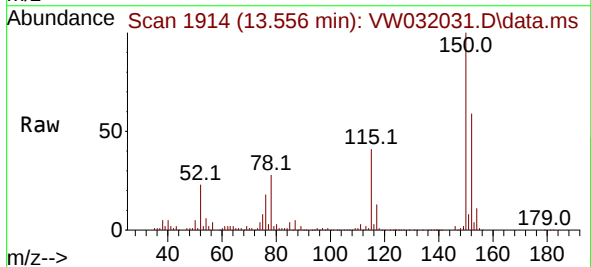
Instrument :
MSVOA_W
ClientSampleId :
TP-4-VOC

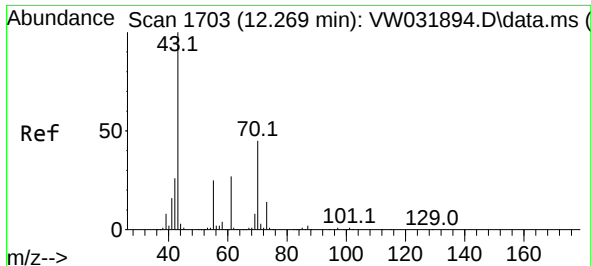
Tgt Ion:112 Resp: 24487
Ion Ratio Lower Upper
112 100
114 31.4 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

Tgt Ion:152 Resp: 184189
Ion Ratio Lower Upper
152 100
115 65.4 33.4 100.1
150 154.7 0.0 352.2

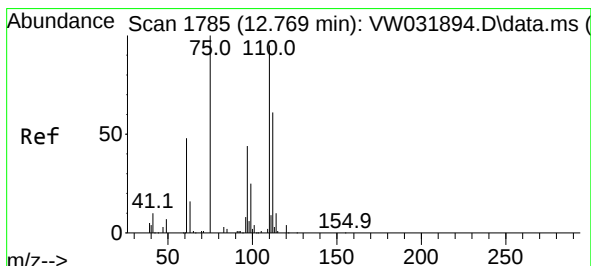
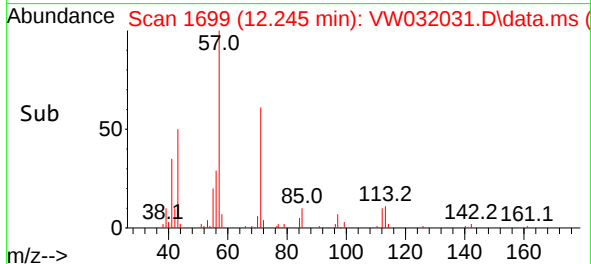
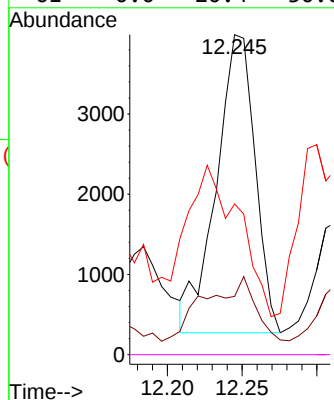
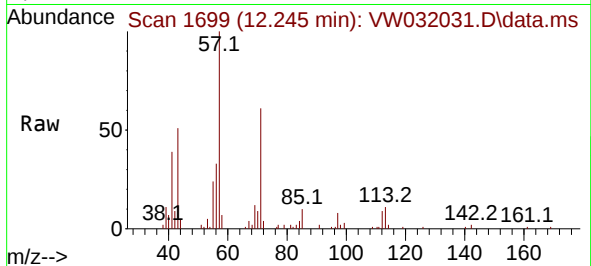




#74
N-ethyl acetate
Concen: 1.555 ug/l
RT: 12.245 min Scan# 1699
Delta R.T. -0.024 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

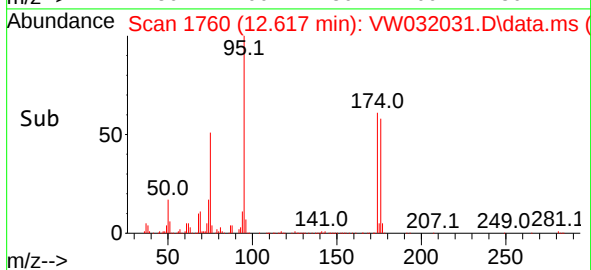
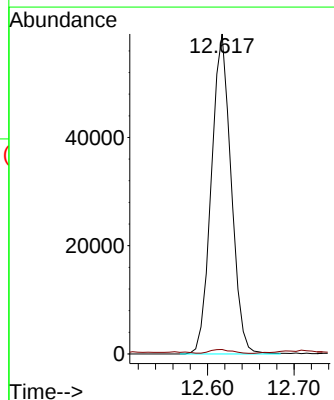
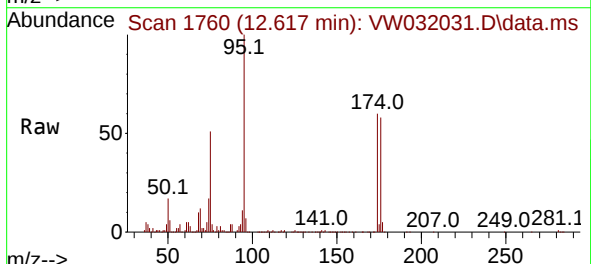
Instrument :
MSVOA_W
ClientSampleId :
TP-4-VOC

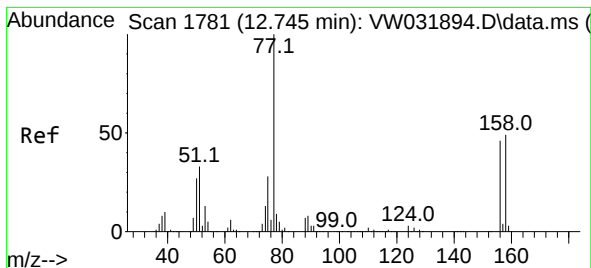
Tgt Ion:	43	Resp:	6718
Ion	Ratio	Lower	Upper
43	100		
70	27.5	36.6	55.0#
55	0.0	20.7	31.1#
61	0.0	20.4	30.6#



#76
1,2,3-Trichloropropane
Concen: 36.910 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.152 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

Tgt Ion:	75	Resp:	93862
Ion	Ratio	Lower	Upper
75	100		
77	1.3	0.0	0.0#





#77

Bromobenzene

Concen: 1.273 ug/l

RT: 12.842 min Scan# 1

Delta R.T. 0.098 min

Lab File: VW032031.D

Acq: 06 Aug 2025 16:12

Instrument :

MSVOA_W

ClientSampleId :

TP-4-VOC

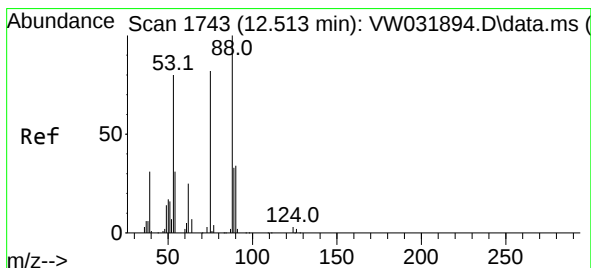
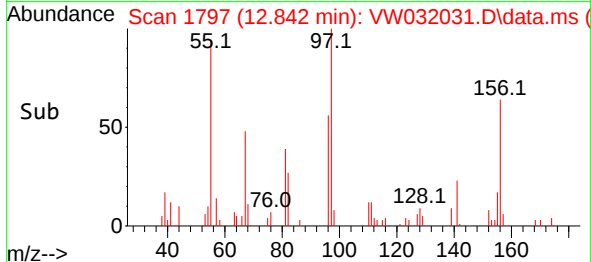
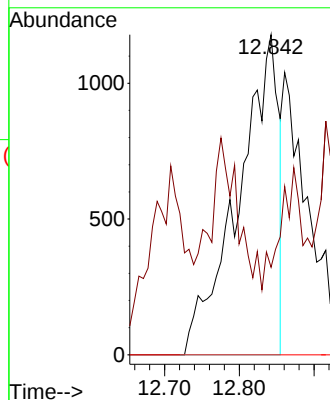
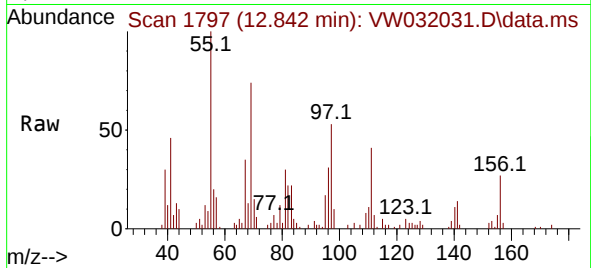
Tgt Ion:156 Resp: 4401

Ion Ratio Lower Upper

156 100

77 0.0 115.3 345.8#

158 0.0 50.1 150.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 85.215 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. 0.104 min

Lab File: VW032031.D

Acq: 06 Aug 2025 16:12

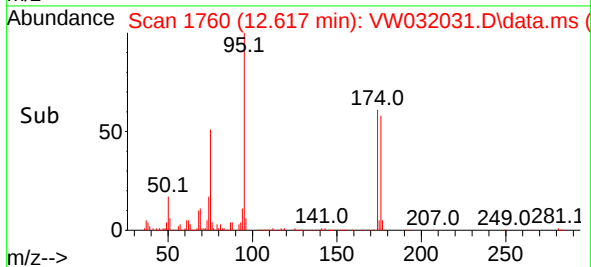
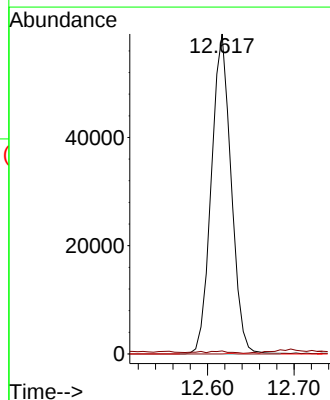
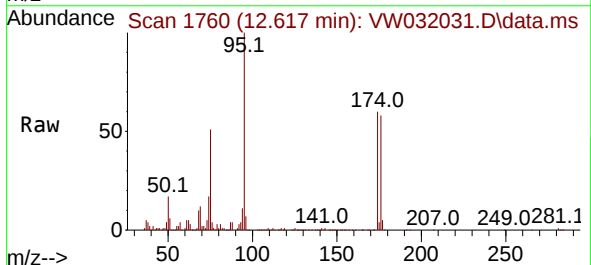
Tgt Ion: 75 Resp: 93862

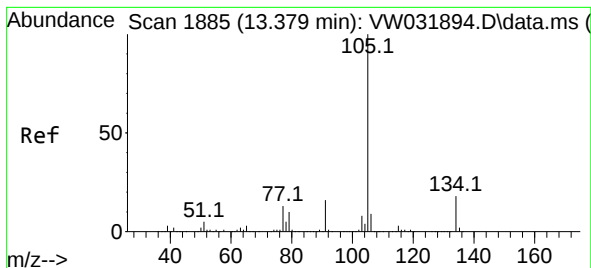
Ion Ratio Lower Upper

75 100

53 0.6 83.7 125.5#

89 0.0 39.0 58.6#





#85

sec-Butylbenzene

Concen: 1.264 ug/l

RT: 13.379 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW032031.D

Acq: 06 Aug 2025 16:12

Instrument :

MSVOA_W

ClientSampleId :

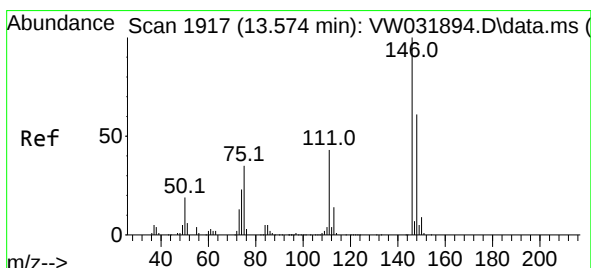
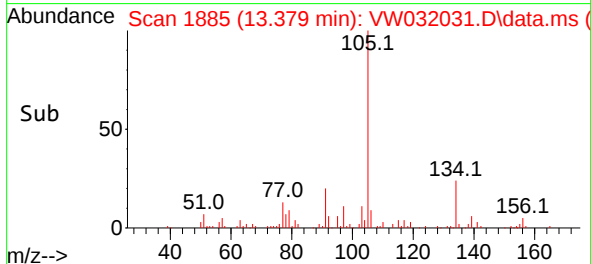
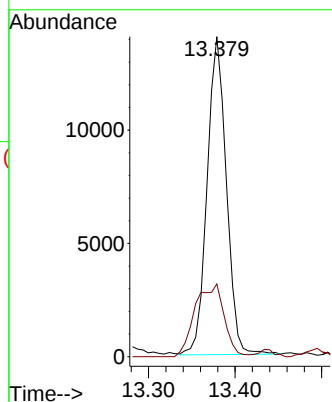
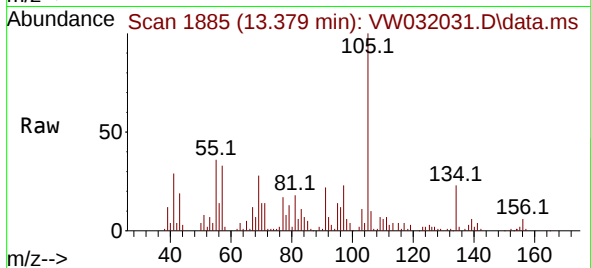
TP-4-VOC

Tgt Ion:105 Resp: 21671

Ion Ratio Lower Upper

105 100

134 34.6 9.2 27.6#



#88

1,4-Dichlorobenzene

Concen: 3.105 ug/l

RT: 13.580 min Scan# 1918

Delta R.T. 0.006 min

Lab File: VW032031.D

Acq: 06 Aug 2025 16:12

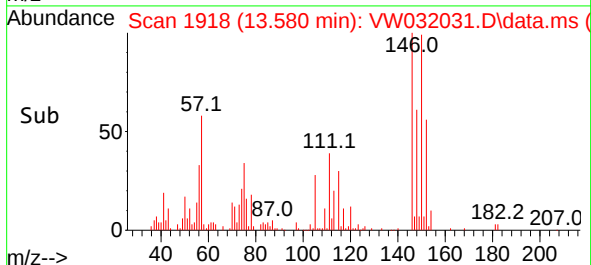
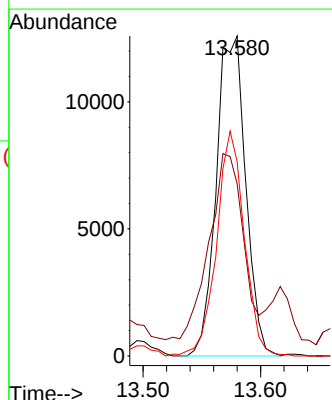
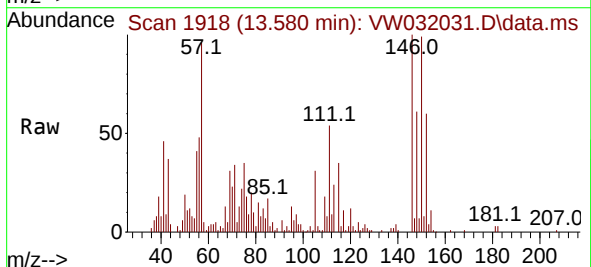
Tgt Ion:146 Resp: 21892

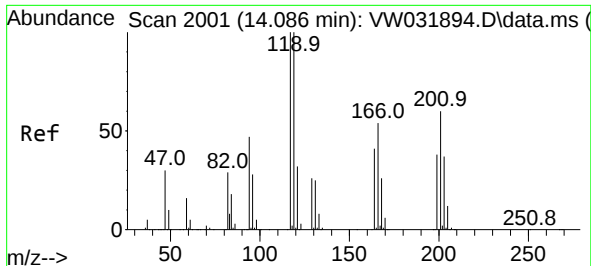
Ion Ratio Lower Upper

146 100

111 68.4 22.1 66.3#

148 66.2 31.8 95.3

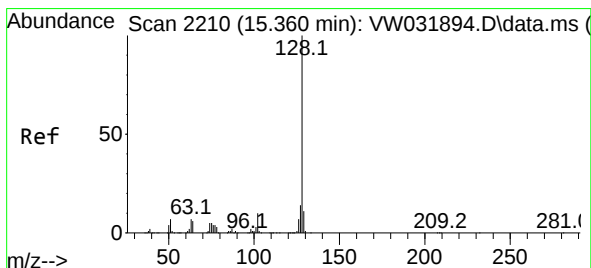
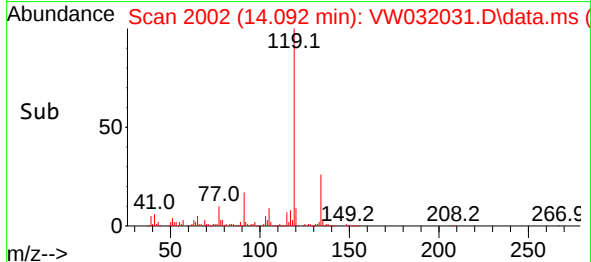
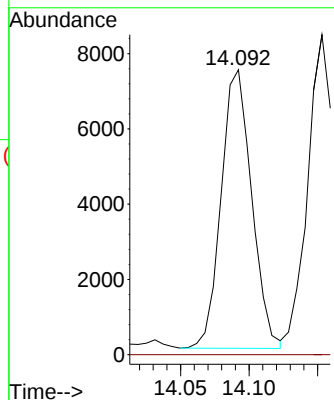
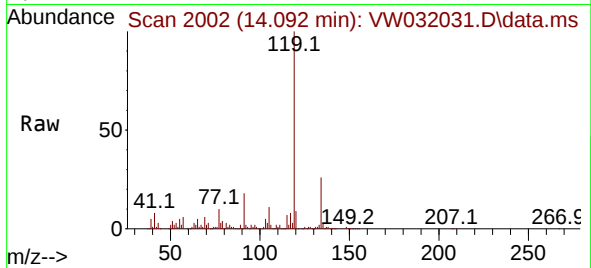




#90
Hexachloroethane
Concen: 4.674 ug/l
RT: 14.092 min Scan# 2001
Delta R.T. 0.006 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

Instrument :
MSVOA_W
ClientSampleId :
TP-4-VOC

Tgt Ion:117 Resp: 11454
Ion Ratio Lower Upper
117 100
201 0.0 28.4 85.2#



#95
Naphthalene
Concen: 1.300 ug/l
RT: 15.360 min Scan# 2210
Delta R.T. 0.000 min
Lab File: VW032031.D
Acq: 06 Aug 2025 16:12

Tgt Ion:128 Resp: 12293
Ion Ratio Lower Upper
128 100
127 11.0 10.7 16.1
129 6.5 9.2 13.8#

