

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071725\
 Data File : VW031885.D
 Acq On : 17 Jul 2025 13:26
 Operator : SY/MD
 Sample : Q2635-01
 Misc : 5.22g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jul 18 02:52:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 01 03:35:17 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	5797	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	10727	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	9585	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	3822	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.325	65	4901	58.911	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 117.820%	
35) Dibromofluoromethane	7.904	113	4038	57.687	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 115.380%	
50) Toluene-d8	10.331	98	12569	48.251	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 96.500%	
62) 4-Bromofluorobenzene	12.623	95	4548	47.444	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 94.880%	

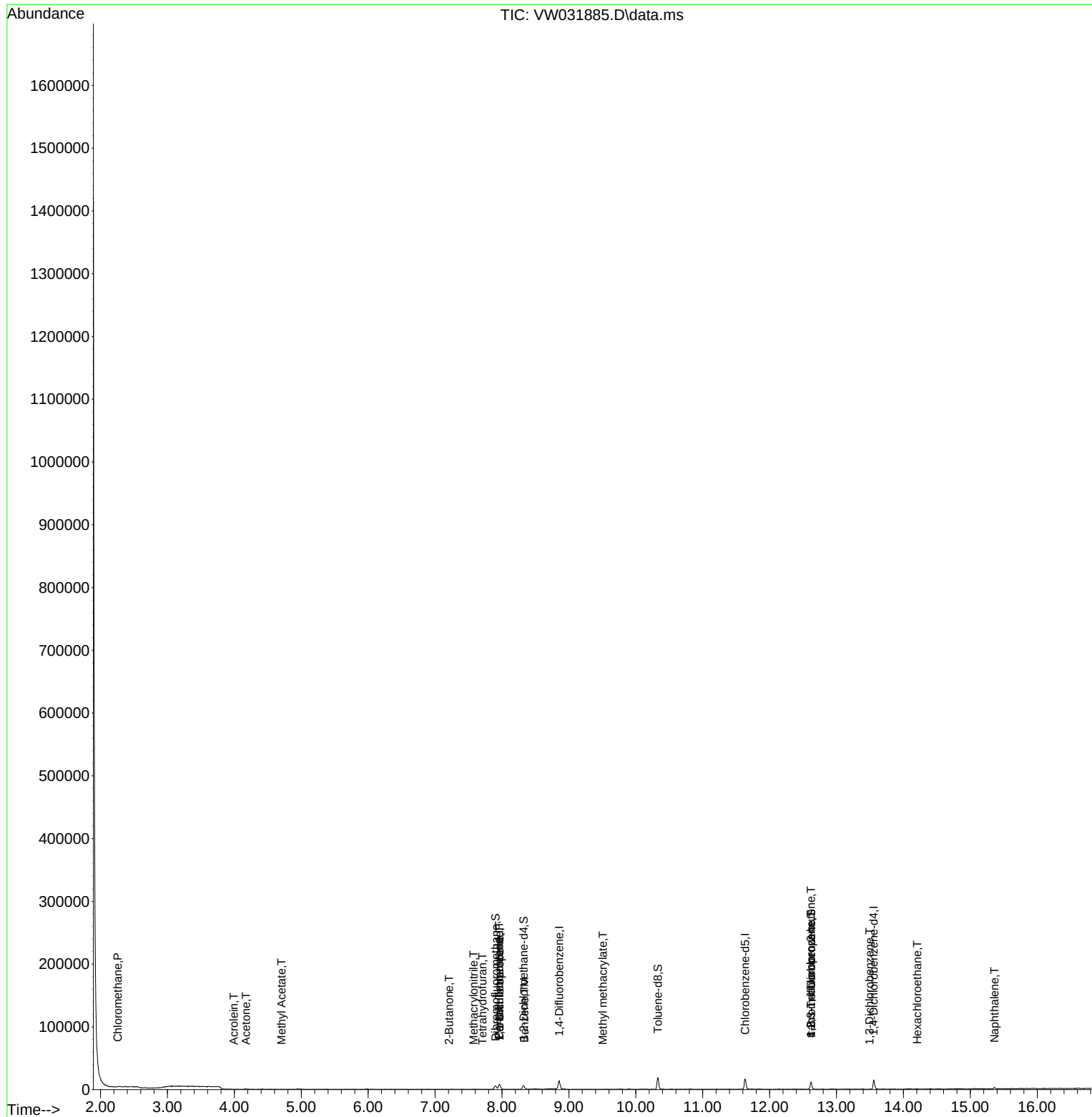
Target Compounds					Qvalue	
3) Chloromethane	2.259	50	61	1.282	ug/l #	42
13) Acrolein	3.991	56	24	2.591	ug/l #	16
16) Acetone	4.173	43	650	31.610	ug/l	94
18) Methyl Acetate	4.704	43	73	1.242	ug/l #	49
20) Methylene Chloride	4.942	84	169	Below Cal	#	59
25) 2-Butanone	7.209	43	42	1.570	ug/l #	46
29) Tetrahydrofuran	7.709	42	19	1.037	ug/l #	31
36) 1,1-Dichloropropene	7.965	75	619	6.111	ug/l #	42
38) Carbon Tetrachloride	7.959	117	619	5.997	ug/l #	13
40) Benzene	8.337	78	338	1.128	ug/l #	51
41) Methacrylonitrile	7.575	41	50	1.461	ug/l #	48
48) Methyl methacrylate	9.508	41	83	1.533	ug/l #	11
76) 1,2,3-Trichloropropane	12.617	75	2509	50.799	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	2509	118.318	ug/l #	8
87) 1,3-Dichlorobenzene	13.495	146	154	1.184	ug/l #	42
90) Hexachloroethane	14.208	117	266	5.782	ug/l #	19
95) Naphthalene	15.360	128	2040	11.352	ug/l	96

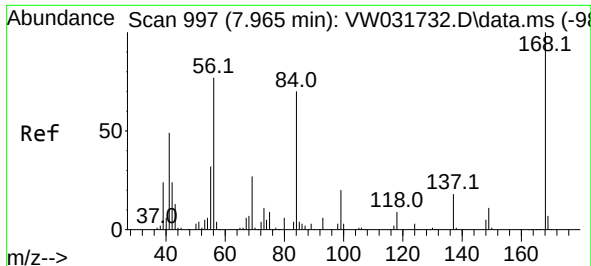
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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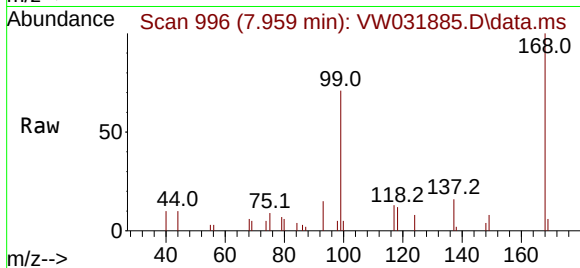
Quant Time: Jul 18 02:52:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:35:17 2025
Response via : Initial Calibration



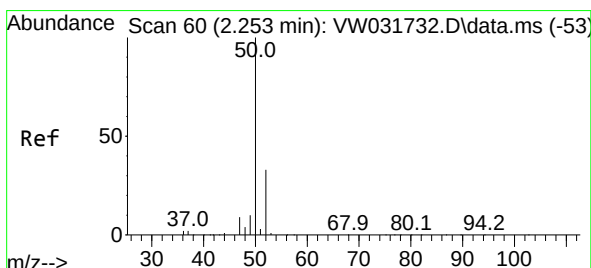
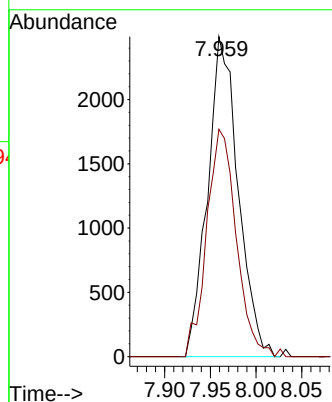
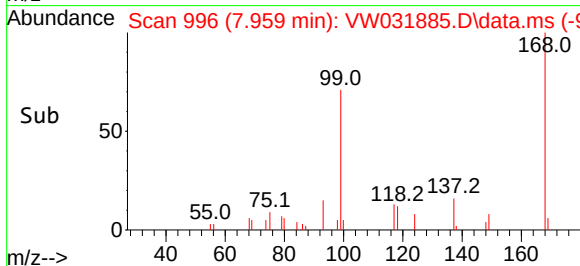


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

Instrument :
MSVOA_W
ClientSampleId :

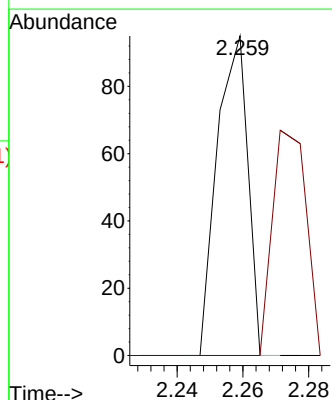
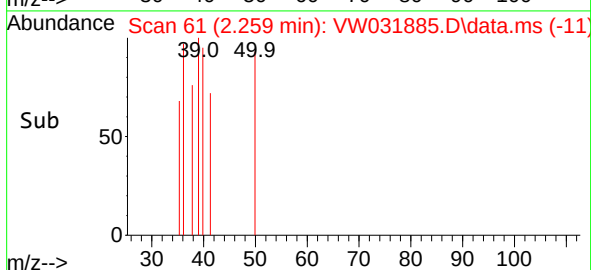
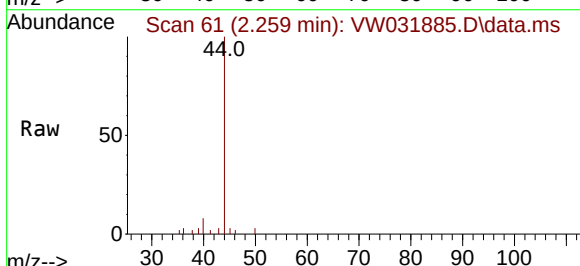


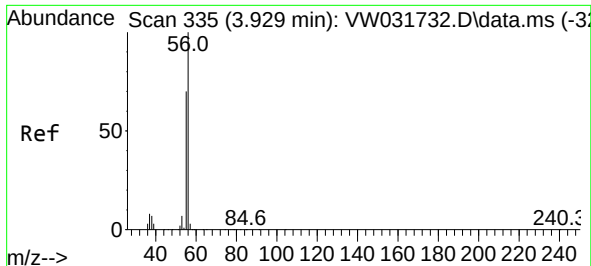
Tgt Ion:168 Resp: 5797
Ion Ratio Lower Upper
168 100
99 71.0 49.4 74.2



#3
Chloromethane
Concen: 1.282 ug/l
RT: 2.259 min Scan# 61
Delta R.T. 0.006 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

Tgt Ion: 50 Resp: 61
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.2#

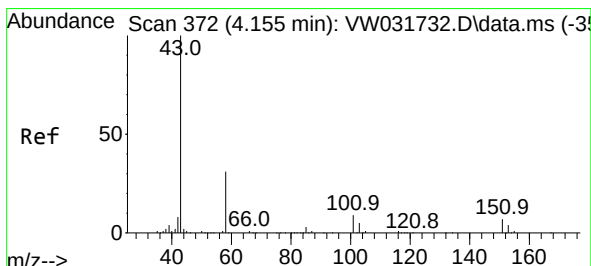
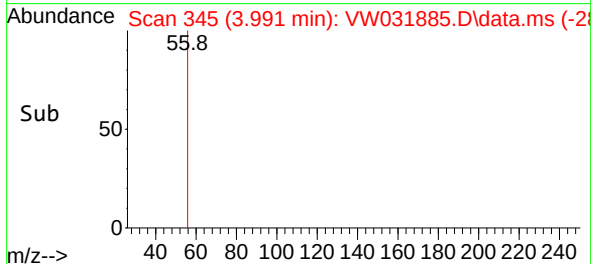
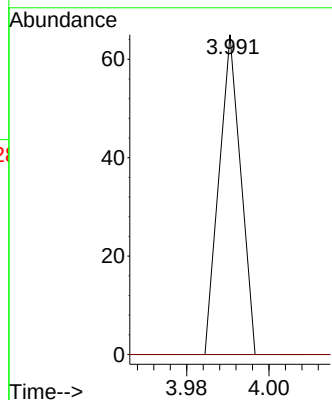
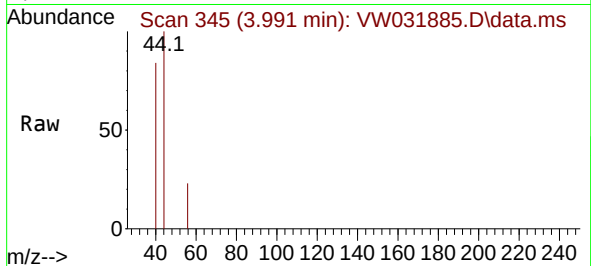




#13
Acrolein
Concen: 2.591 ug/l
RT: 3.991 min Scan# 341
Delta R.T. 0.061 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

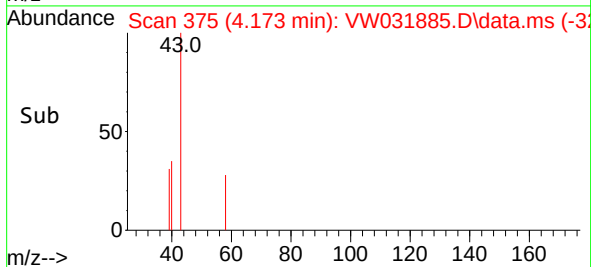
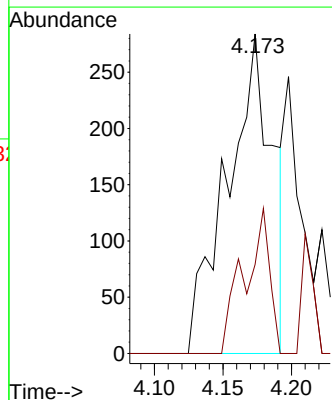
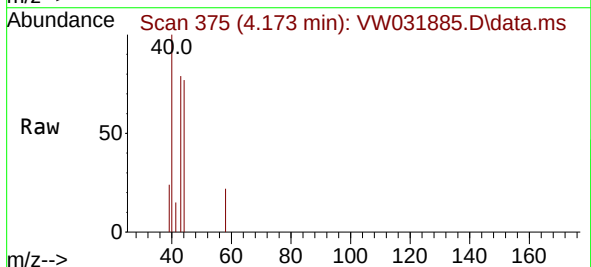
Instrument :
MSVOA_W
ClientSampleId :

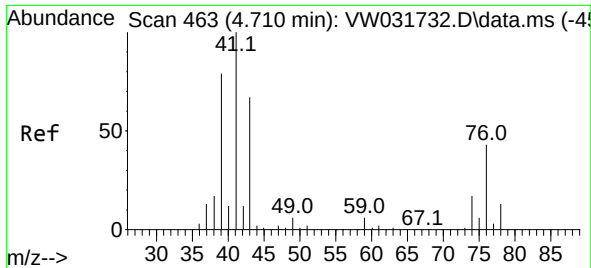
Tgt Ion: 56 Resp: 24
Ion Ratio Lower Upper
56 100
55 0.0 54.0 81.0#



#16
Acetone
Concen: 31.610 ug/l
RT: 4.173 min Scan# 375
Delta R.T. 0.019 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

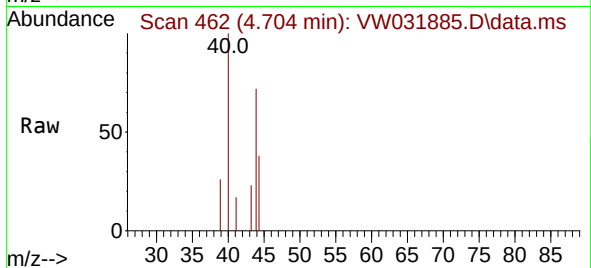
Tgt Ion: 43 Resp: 650
Ion Ratio Lower Upper
43 100
58 27.8 24.8 37.2



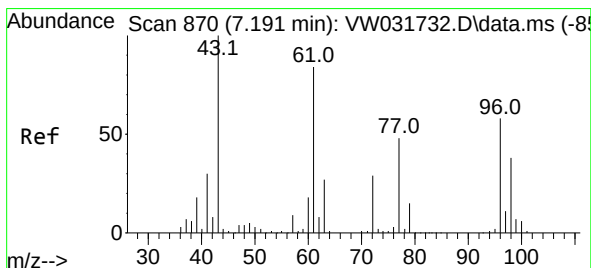
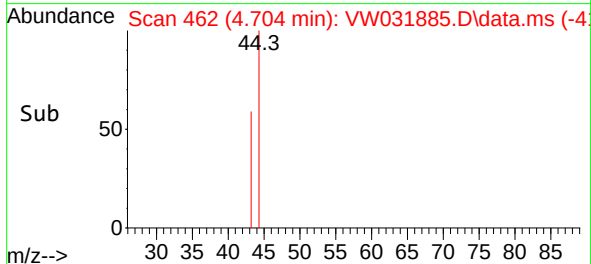
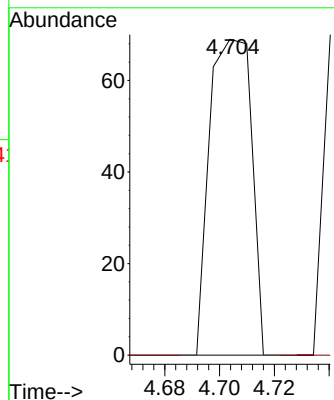


#18
Methyl Acetate
Concen: 1.242 ug/l
RT: 4.704 min Scan# 41
Delta R.T. -0.006 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

Instrument :
MSVOA_W
ClientSampleId :

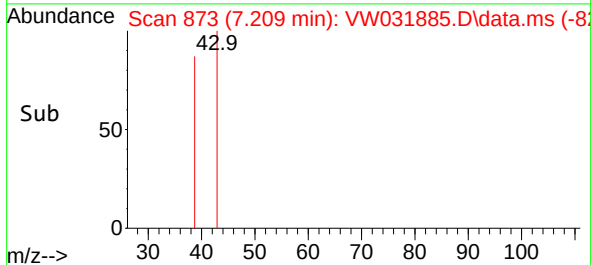
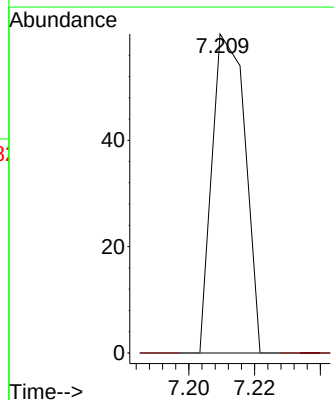
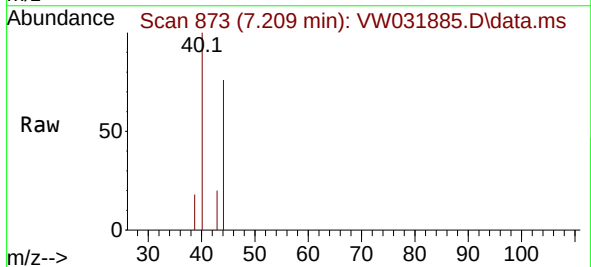


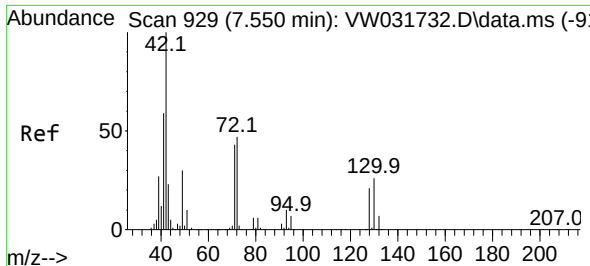
Tgt Ion: 43 Resp: 73
Ion Ratio Lower Upper
43 100
74 0.0 20.6 30.8#



#25
2-Butanone
Concen: 1.570 ug/l
RT: 7.209 min Scan# 873
Delta R.T. 0.019 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

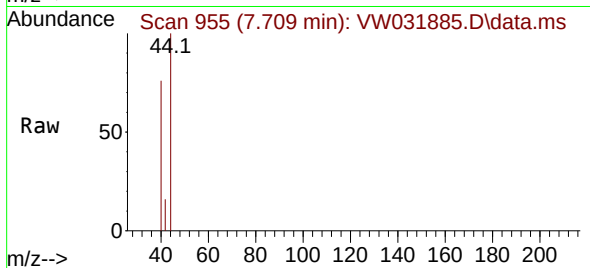
Tgt Ion: 43 Resp: 42
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



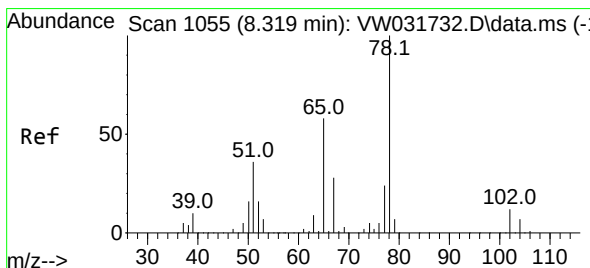
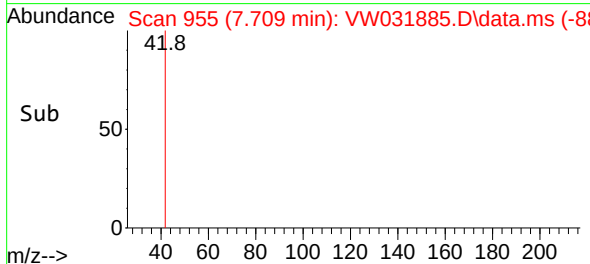
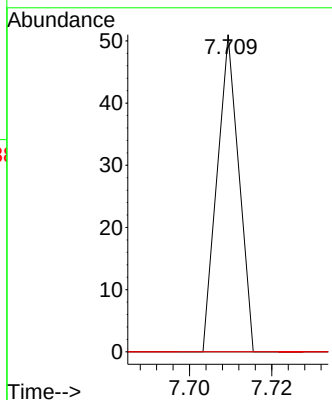


#29
Tetrahydrofuran
Concen: 1.037 ug/l
RT: 7.709 min Scan# 91
Delta R.T. 0.159 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

Instrument :
MSVOA_W
ClientSampleId :

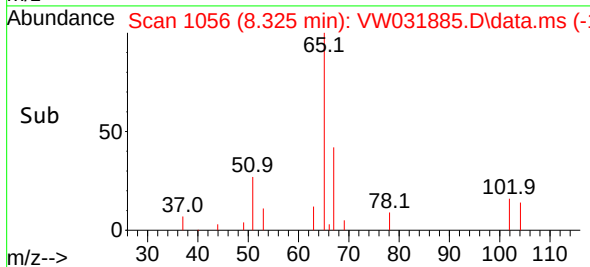
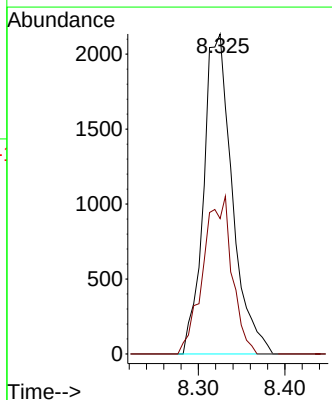
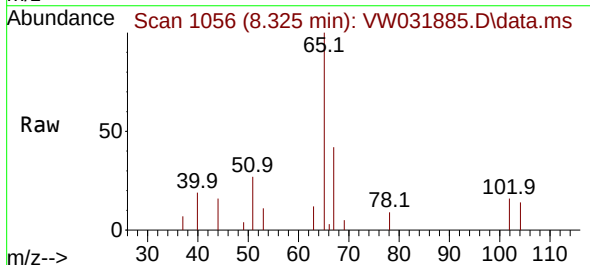


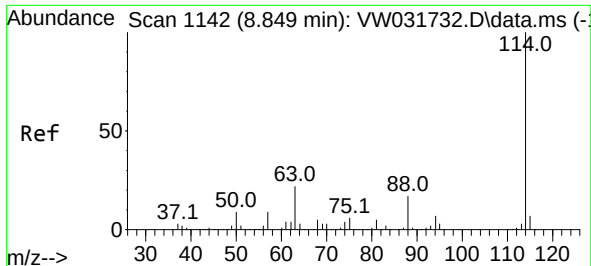
Tgt Ion: 42 Resp: 19
Ion Ratio Lower Upper
42 100
72 0.0 36.8 55.2#
71 0.0 34.6 52.0#



#33
1,2-Dichloroethane-d4
Concen: 58.911 ug/l
RT: 8.325 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

Tgt Ion: 65 Resp: 4901
Ion Ratio Lower Upper
65 100
67 49.7 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VW031885.D

Acq: 17 Jul 2025 13:26

Instrument :

MSVOA_W

ClientSampleId :

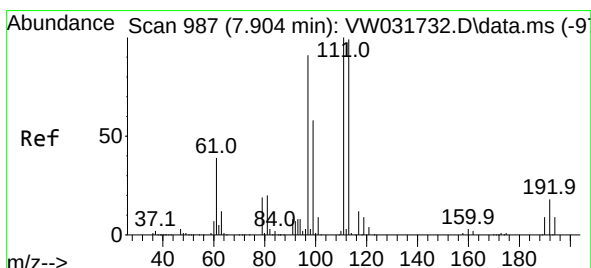
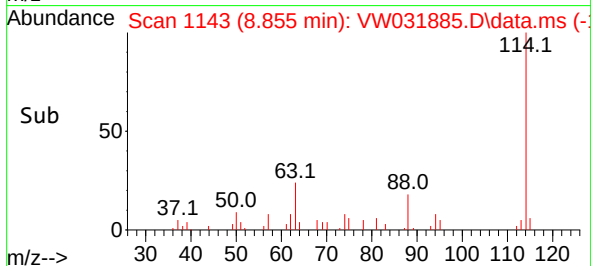
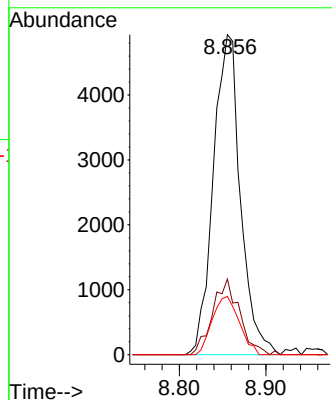
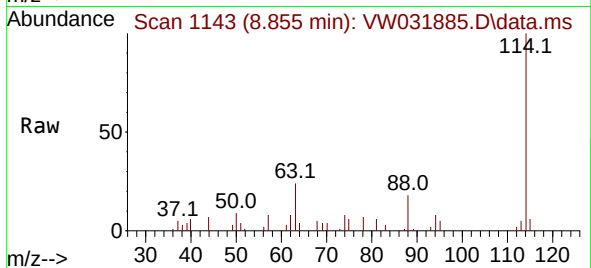
Tgt Ion:114 Resp: 10727

Ion Ratio Lower Upper

114 100

63 23.7 0.0 43.6

88 18.2 0.0 34.2



#35

Dibromofluoromethane

Concen: 57.687 ug/l

RT: 7.904 min Scan# 987

Delta R.T. 0.000 min

Lab File: VW031885.D

Acq: 17 Jul 2025 13:26

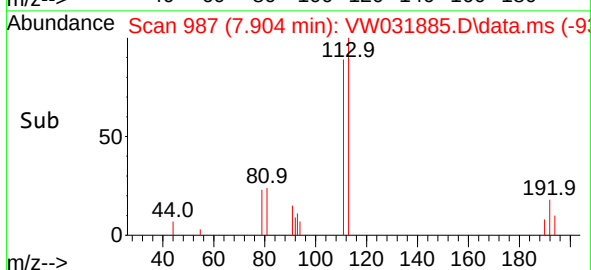
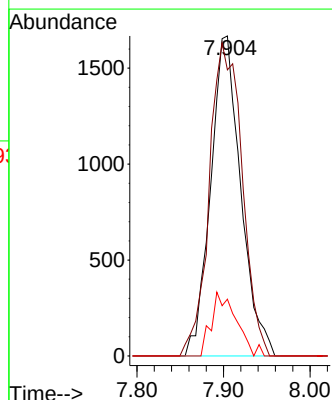
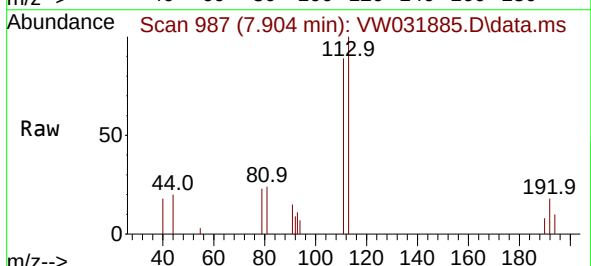
Tgt Ion:113 Resp: 4038

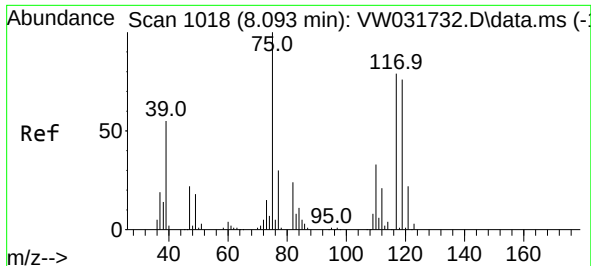
Ion Ratio Lower Upper

113 100

111 106.3 82.1 123.1

192 16.5 13.8 20.6





#36

1,1-Dichloropropene

Concen: 6.111 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.128 min

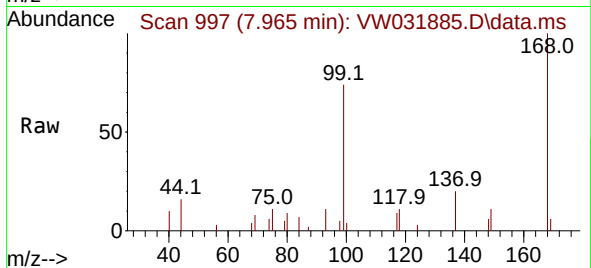
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Acq: 17 Jul 2025 13:26

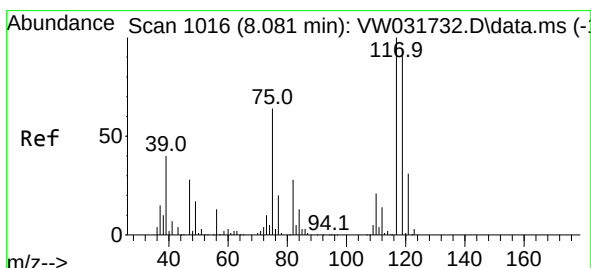
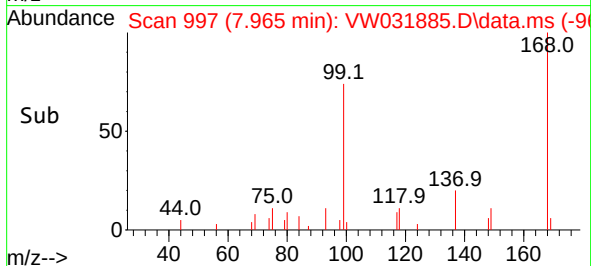
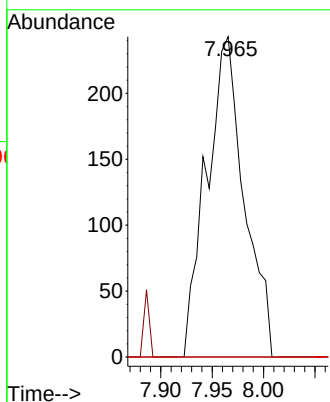
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 75	Resp: 619
Ion Ratio	Lower Upper
75	100
110	0.0 16.8 50.4#
77	0.0 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.997 ug/l

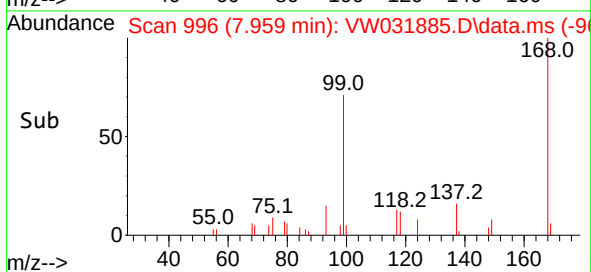
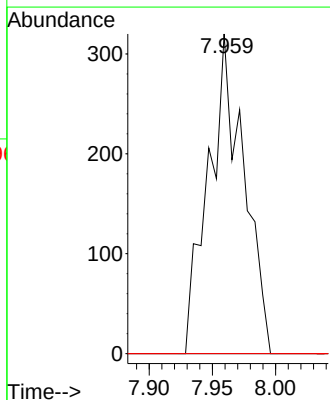
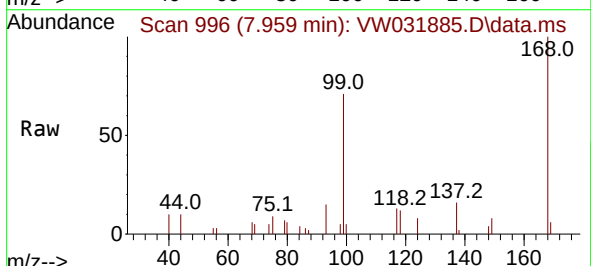
RT: 7.959 min Scan# 996

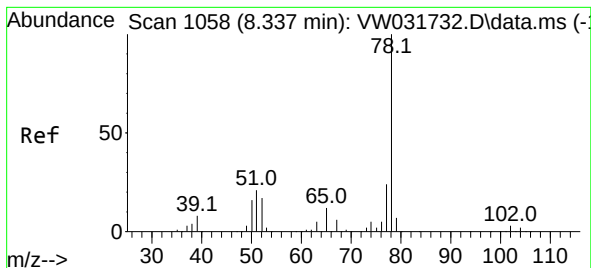
Delta R.T. -0.122 min

Lab File: VW031885.D

Acq: 17 Jul 2025 13:26

Tgt Ion: 117	Resp: 619
Ion Ratio	Lower Upper
117	100
119	0.0 75.0 112.6#
121	0.0 24.6 37.0#





#40

Benzene

Concen: 1.128 ug/l

RT: 8.337 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VW031885.D

Acq: 17 Jul 2025 13:26

Instrument :

MSVOA_W

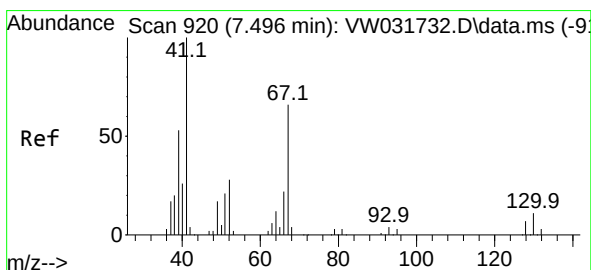
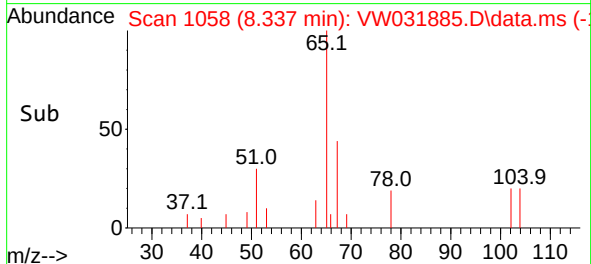
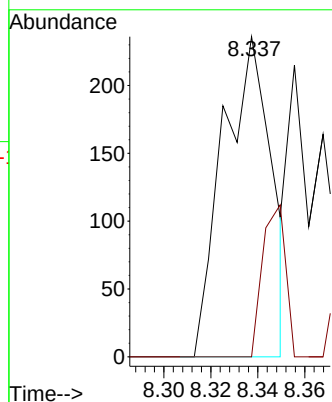
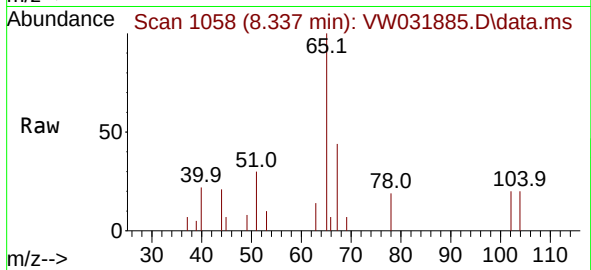
ClientSampleId :

Tgt Ion: 78 Resp: 338

Ion Ratio Lower Upper

78 100

77 0.0 19.2 28.8#



#41

Methacrylonitrile

Concen: 1.461 ug/l

RT: 7.575 min Scan# 933

Delta R.T. 0.080 min

Lab File: VW031885.D

Acq: 17 Jul 2025 13:26

Tgt Ion: 41 Resp: 50

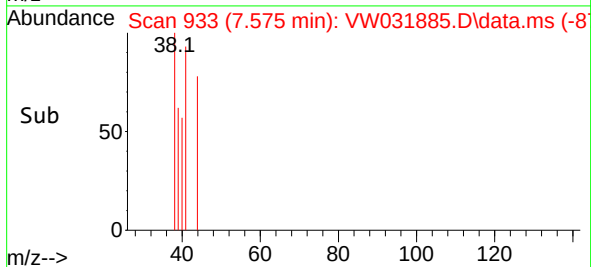
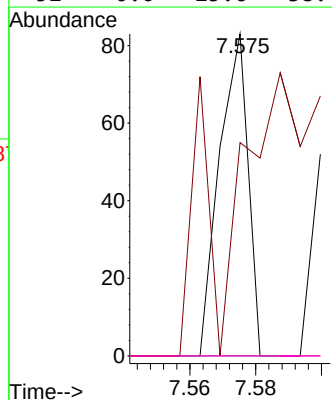
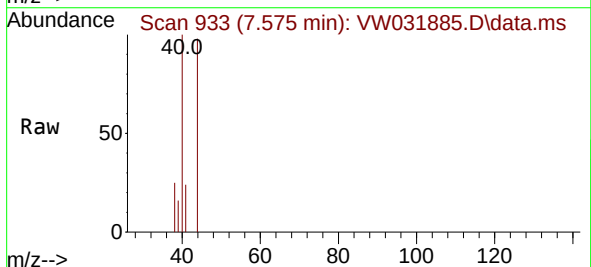
Ion Ratio Lower Upper

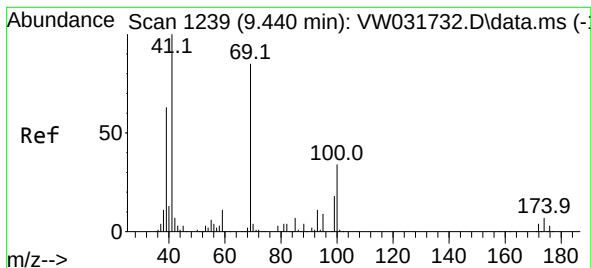
41 100

39 52.0 43.2 64.8

67 0.0 58.1 87.1#

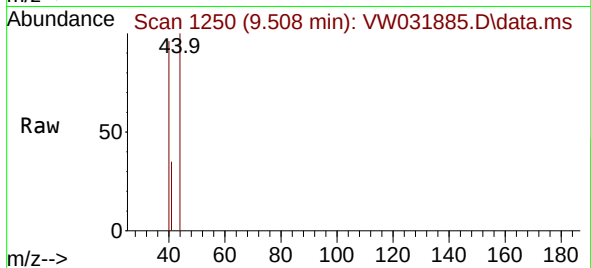
52 0.0 25.6 38.4#



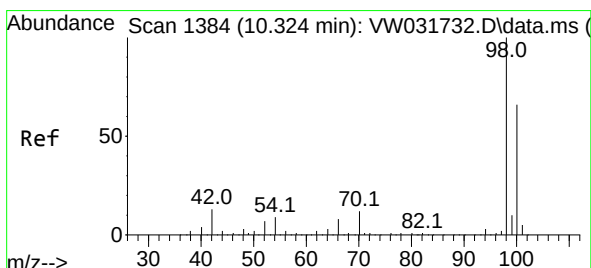
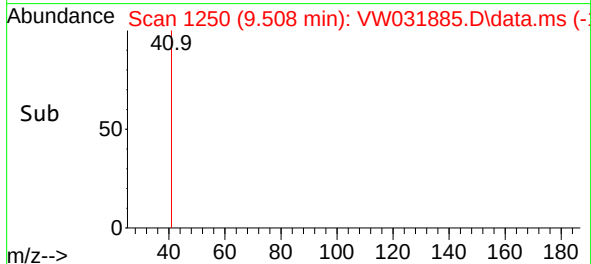
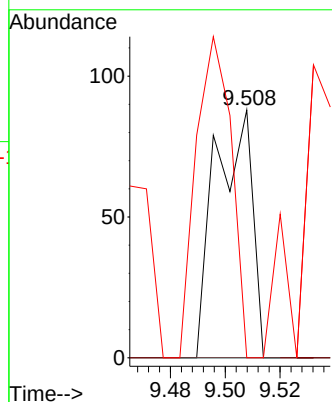


#48
Methyl methacrylate
Concen: 1.533 ug/l
RT: 9.508 min Scan# 11
Delta R.T. 0.067 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

Instrument :
MSVOA_W
ClientSampleId :

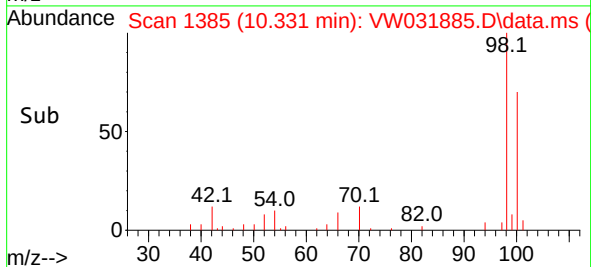
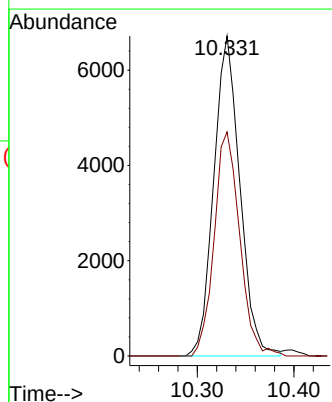
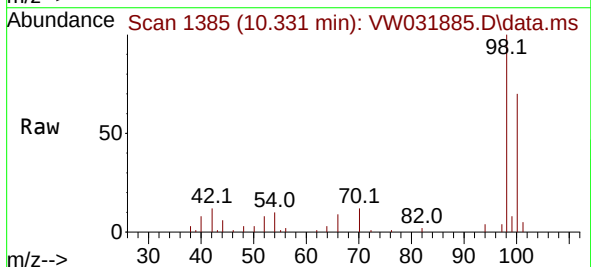


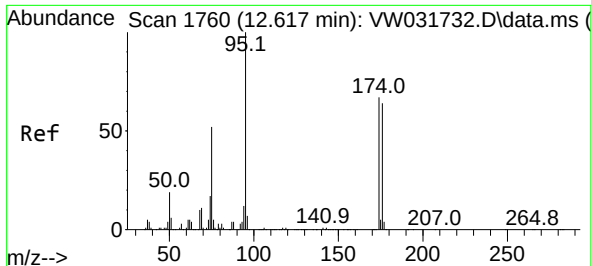
Tgt Ion: 41 Resp: 83
Ion Ratio Lower Upper
41 100
69 0.0 71.6 107.4#
39 122.9 49.5 74.3#



#50
Toluene-d8
Concen: 48.251 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

Tgt Ion: 98 Resp: 12569
Ion Ratio Lower Upper
98 100
100 68.5 53.0 79.4

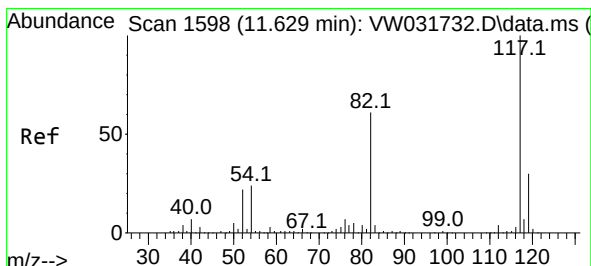
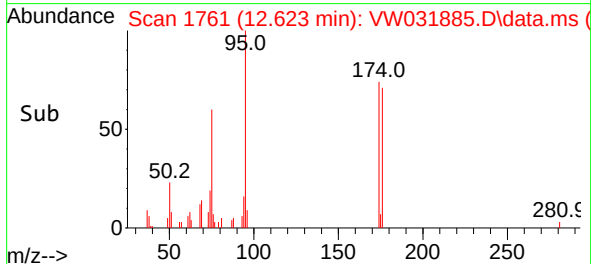
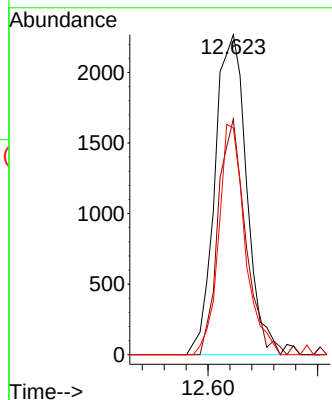
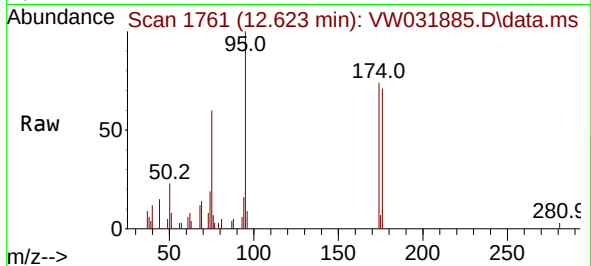




#62
4-Bromofluorobenzene
Concen: 47.444 ug/l
RT: 12.623 min Scan# 1761
Delta R.T. 0.006 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

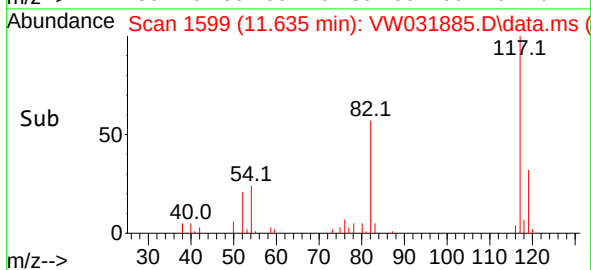
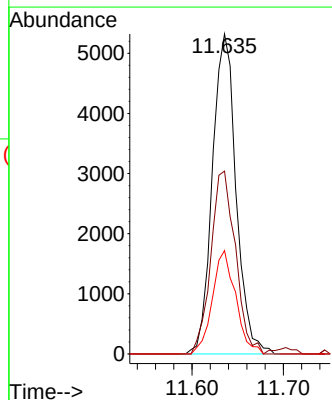
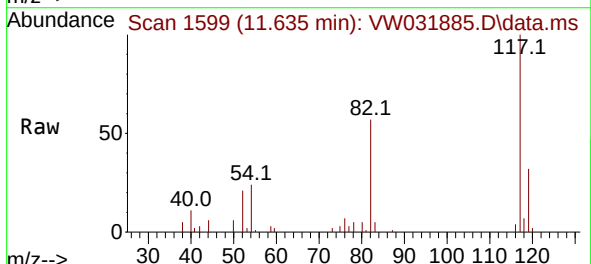
Instrument :
MSVOA_W
ClientSampleId :

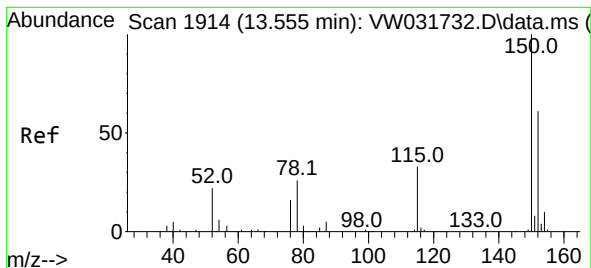
Tgt Ion:	95	Resp:	4548
Ion	Ratio	Lower	Upper
95	100		
174	63.7	0.0	133.8
176	60.1	0.0	126.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

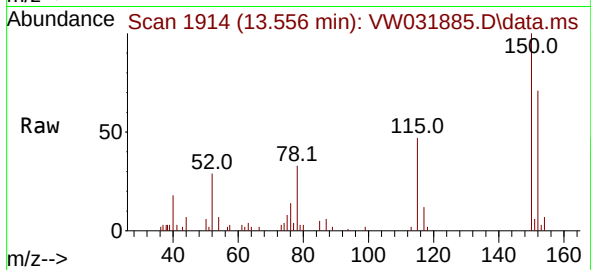
Tgt Ion:	117	Resp:	9585
Ion	Ratio	Lower	Upper
117	100		
82	57.2	48.6	72.8
119	32.3	23.9	35.9



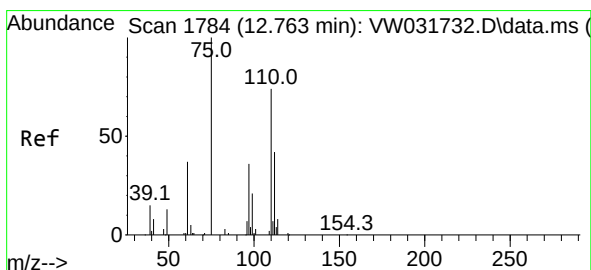
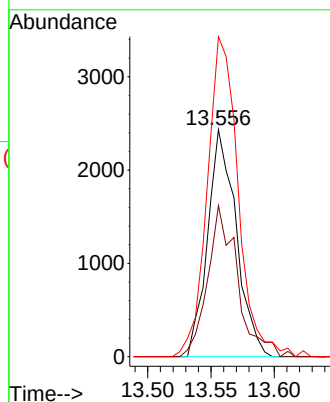
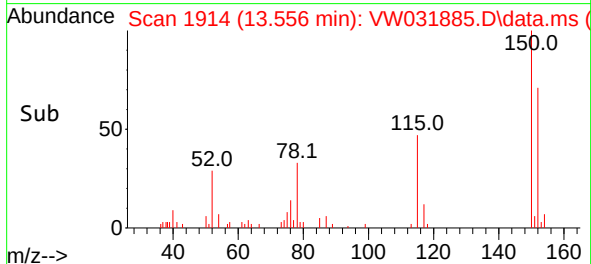


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.556 min Scan# 1914
 Delta R.T. 0.000 min
 Lab File: VW031885.D
 Acq: 17 Jul 2025 13:26

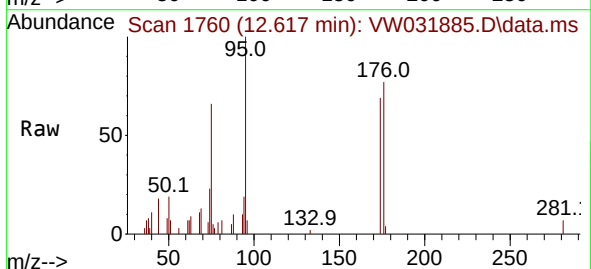
Instrument :
 MSVOA_W
 ClientSampleId :



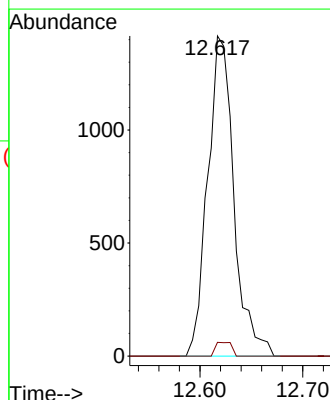
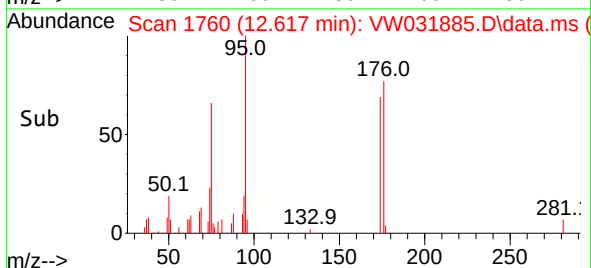
Tgt Ion:152 Resp: 3822
 Ion Ratio Lower Upper
 152 100
 115 69.6 31.9 95.7
 150 153.2 0.0 356.4

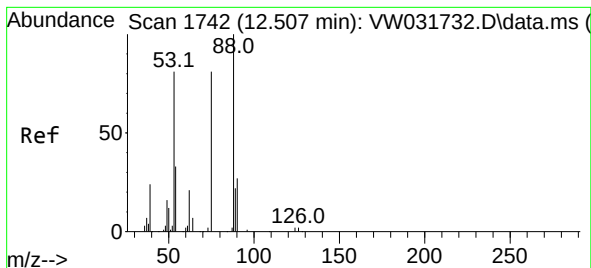


#76
 1,2,3-Trichloropropane
 Concen: 50.799 ug/l
 RT: 12.617 min Scan# 1760
 Delta R.T. -0.146 min
 Lab File: VW031885.D
 Acq: 17 Jul 2025 13:26



Tgt Ion: 75 Resp: 2509
 Ion Ratio Lower Upper
 75 100
 77 2.6 141.2 423.6#

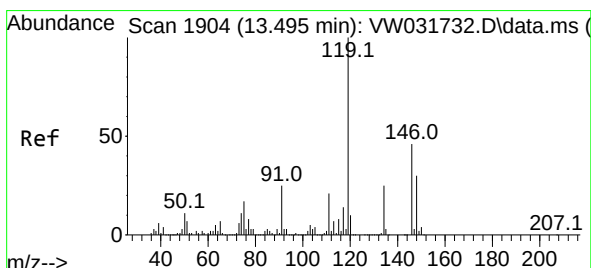
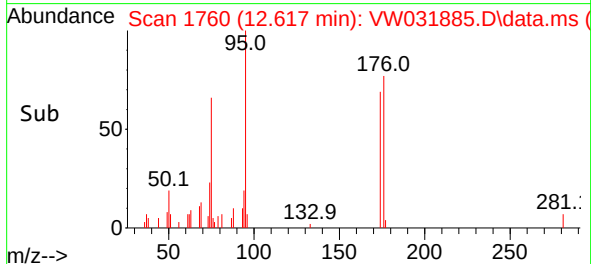
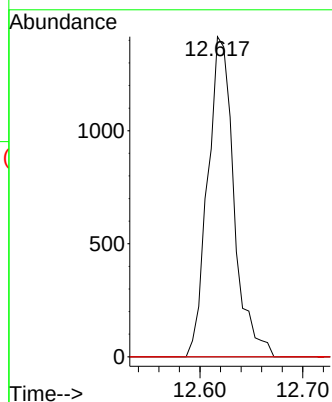
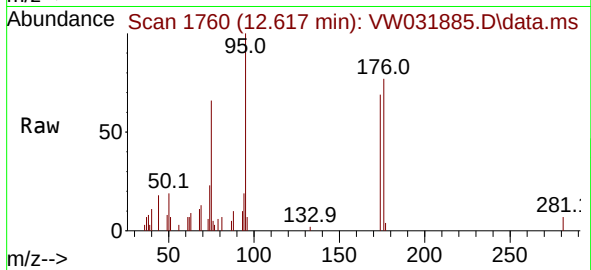




#81
trans-1,4-Dichloro-2-butene
Concen: 118.318 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.110 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

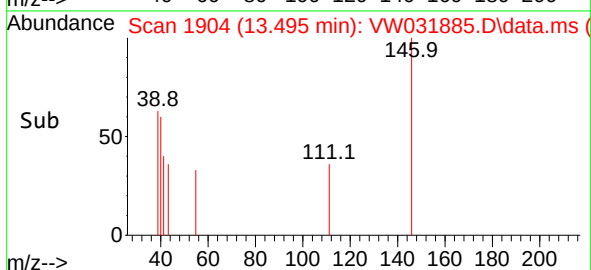
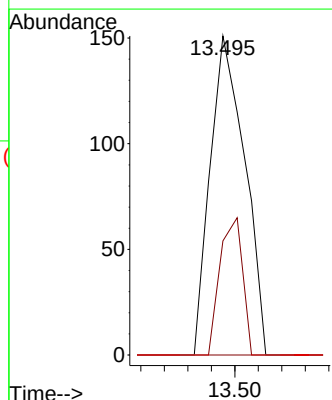
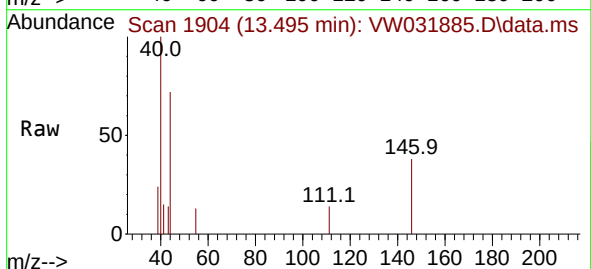
Instrument :
MSVOA_W
ClientSampleId :

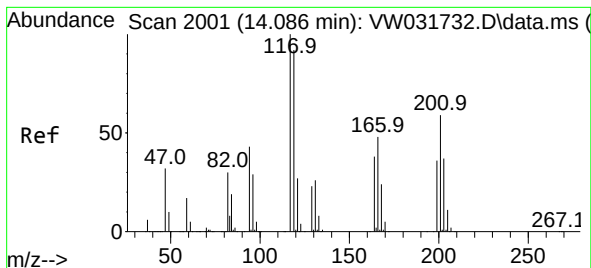
Tgt Ion: 75 Resp: 2509
Ion Ratio Lower Upper
75 100
53 0.0 83.5 125.3#
89 0.0 38.3 57.5#



#87
1,3-Dichlorobenzene
Concen: 1.184 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW031885.D
Acq: 17 Jul 2025 13:26

Tgt Ion:146 Resp: 154
Ion Ratio Lower Upper
146 100
111 28.6 22.3 66.9
148 0.0 31.8 95.4#





#90

Hexachloroethane

Concen: 5.782 ug/l

RT: 14.208 min Scan# 2001

Delta R.T. 0.122 min

Lab File: VW031885.D

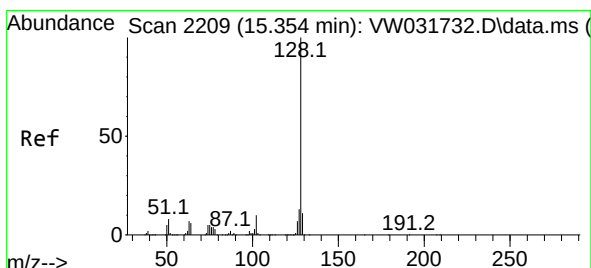
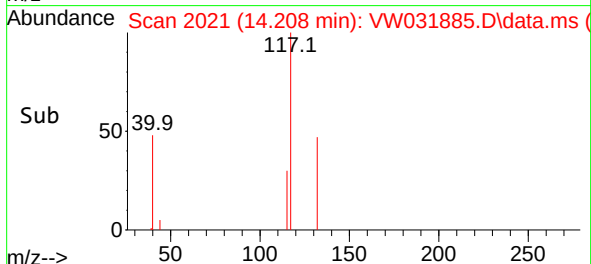
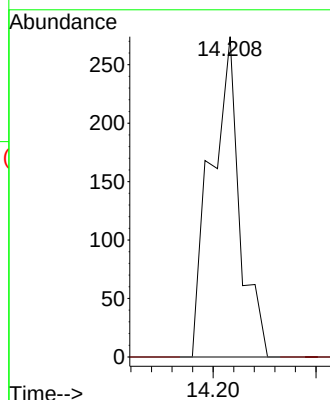
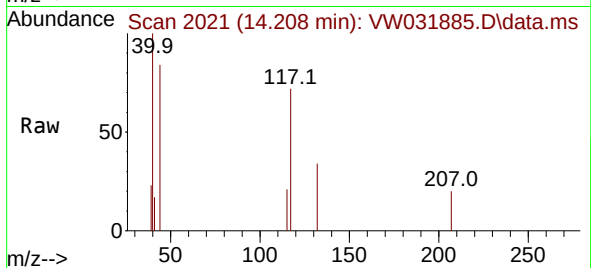
Acq: 17 Jul 2025 13:26

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:117 Resp: 266
 Ion Ratio Lower Upper
 117 100
 201 0.0 31.1 93.3#



#95

Naphthalene

Concen: 11.352 ug/l

RT: 15.360 min Scan# 2210

Delta R.T. 0.006 min

Lab File: VW031885.D

Acq: 17 Jul 2025 13:26

Tgt Ion:128 Resp: 2040
 Ion Ratio Lower Upper
 128 100
 127 15.0 10.8 16.2
 129 9.6 8.7 13.1

