

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051525\
 Data File : VD080346.D
 Acq On : 15 May 2025 14:13
 Operator : RP/MD
 Sample : Q2043-01
 Misc : 4.87G/10ml/MSVOA_D/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 281RE

Quant Time: May 16 02:57:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D050625S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 07 08:57:11 2025
 Response via : Initial Calibration

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

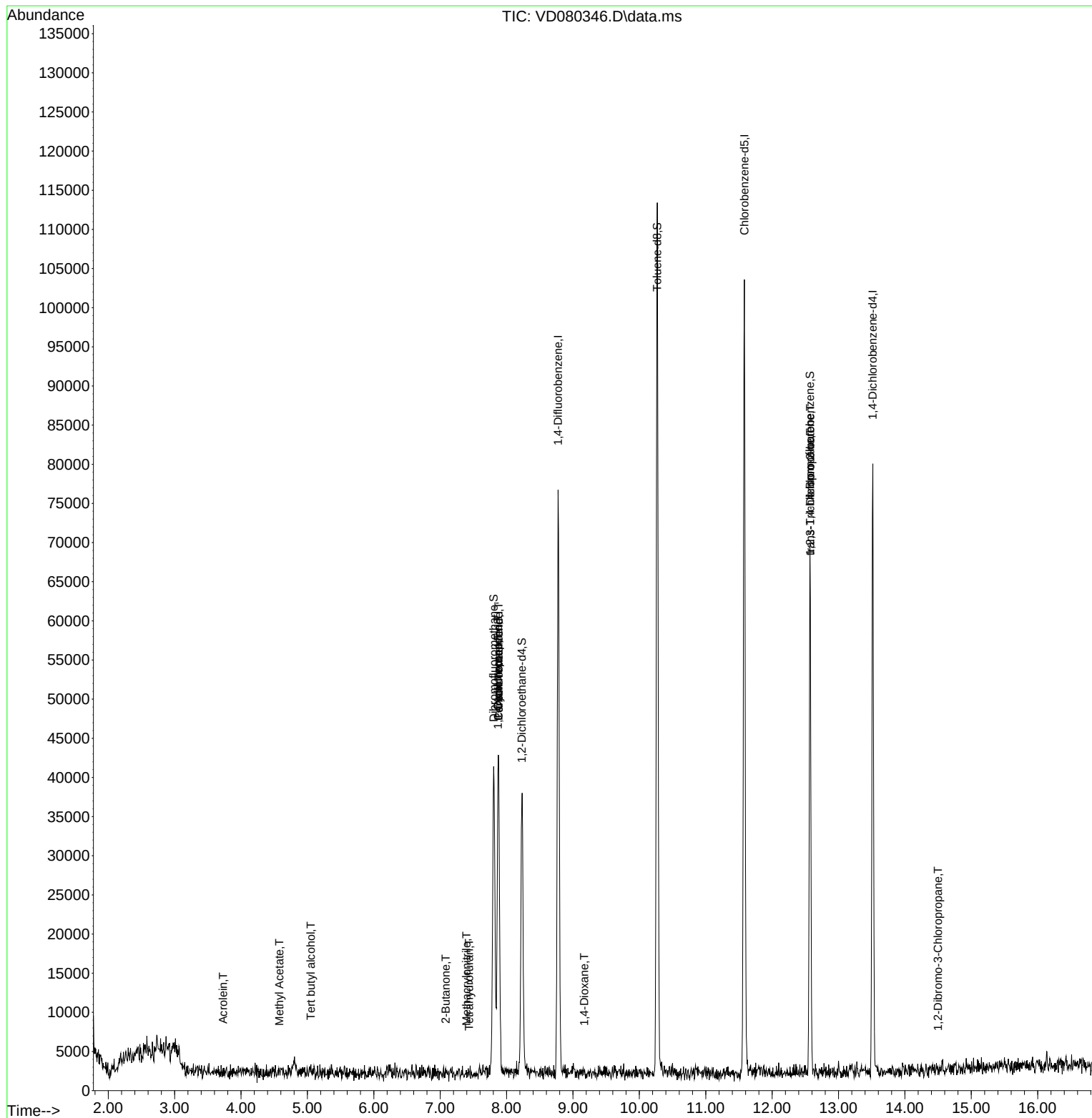
Internal Standards						
1) Pentafluorobenzene	7.882	168	30538	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.776	114	60110	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.582	117	56721	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.517	152	21525	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.229	65	27987	70.870	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 141.740%			
35) Dibromofluoromethane	7.805	113	28660	71.138	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 142.280%			
50) Toluene-d8	10.270	98	76450	48.161	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.320%			
62) 4-Bromofluorobenzene	12.570	95	20410	40.059	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 80.120%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.135	50	62	Below Cal	#	2
11) Tert butyl alcohol	5.053	59	313	13.062	ug/l #	67
13) Acrolein	3.729	56	58	1.376	ug/l #	65
18) Methyl Acetate	4.576	43	261	1.021	ug/l #	49
20) Methylene Chloride	4.806	84	1149	Below Cal	#	55
25) 2-Butanone	7.082	43	145	1.334	ug/l #	47
29) Tetrahydrofuran	7.435	42	110	1.553	ug/l #	60
31) Cyclohexane	7.876	56	1181	1.841	ug/l #	50
36) 1,1-Dichloropropene	7.870	75	3000	4.982	ug/l #	45
38) Carbon Tetrachloride	7.882	117	3191	5.082	ug/l #	14
41) Methacrylonitrile	7.394	41	393	2.256	ug/l #	33
49) 1,4-Dioxane	9.170	88	56	17.880	ug/l #	1
76) 1,2,3-Trichloropropane	12.576	75	10026	48.261	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.576	75	10026	91.608	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.499	75	68	1.390	ug/l #	2

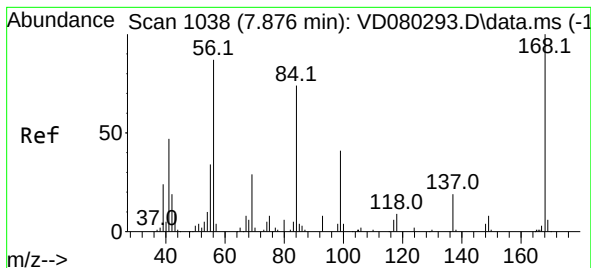
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed May 07 08:57:11 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.882 min Scan# 10

Delta R.T. 0.007 min

Lab File: VD080346.D

Acq: 15 May 2025 14:13

Instrument :

MSVOA_D

ClientSampleId :

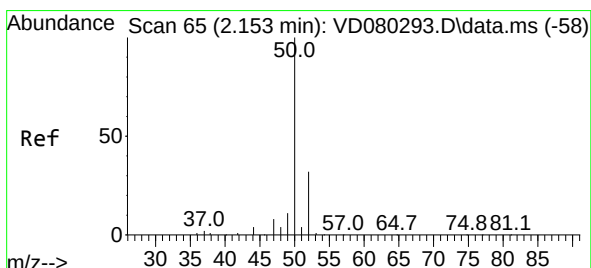
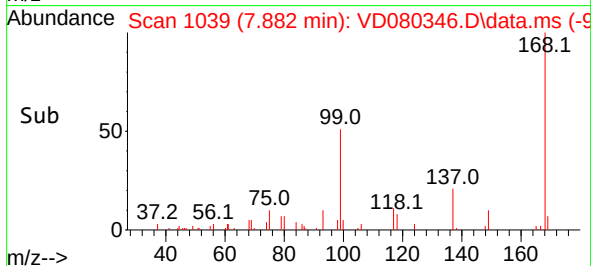
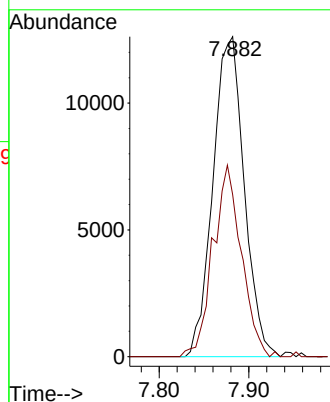
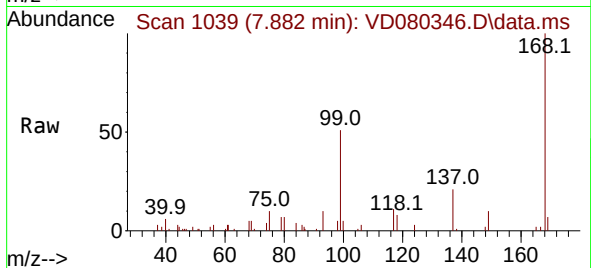
281RE

Tgt Ion:168 Resp: 30538

Ion Ratio Lower Upper

168 100

99 50.6 46.0 69.0



#3

Chloromethane

Concen: Below Cal

RT: 2.135 min Scan# 62

Delta R.T. -0.011 min

Lab File: VD080346.D

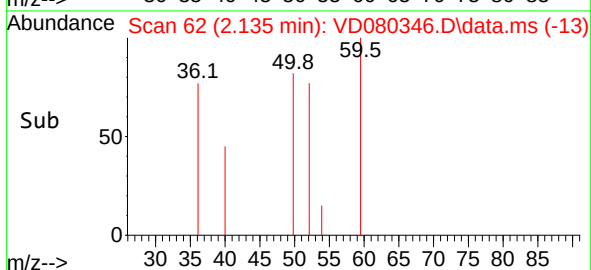
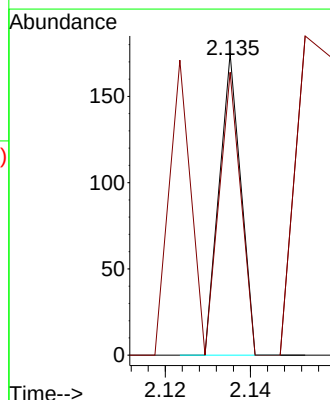
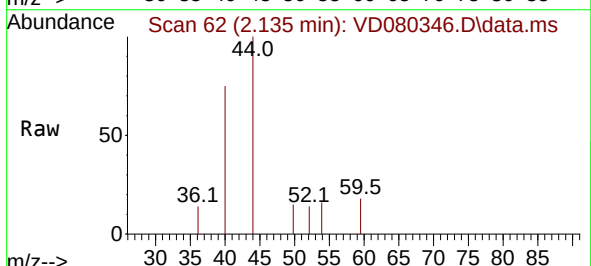
Acq: 15 May 2025 14:13

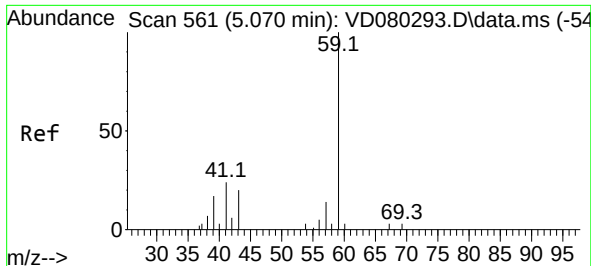
Tgt Ion: 50 Resp: 62

Ion Ratio Lower Upper

50 100

52 93.7 28.8 43.2#

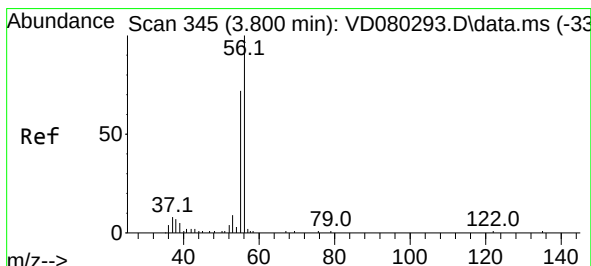
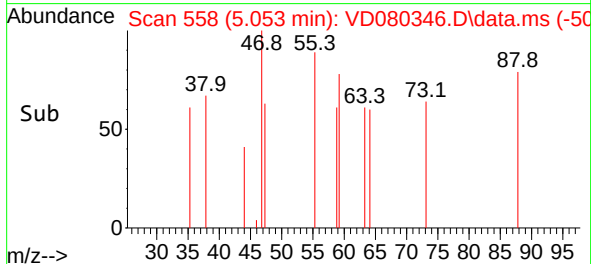
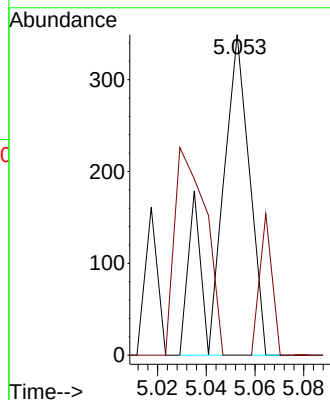
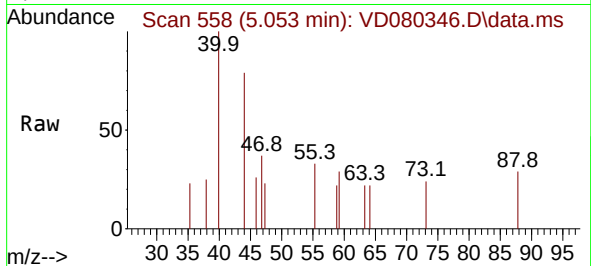




#11
Tert butyl alcohol
Concen: 13.062 ug/l
RT: 5.053 min Scan# 51
Delta R.T. -0.005 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

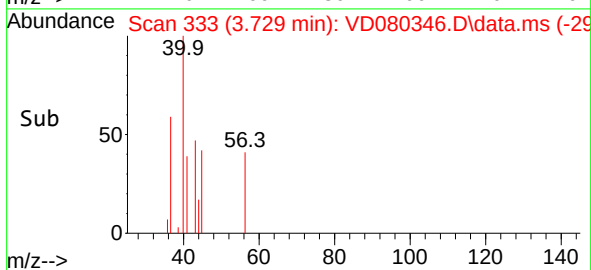
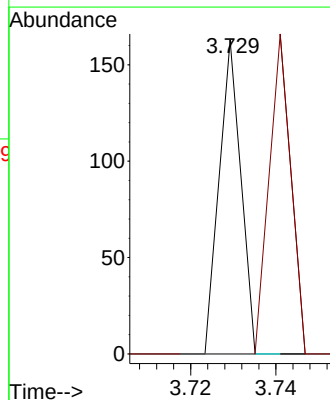
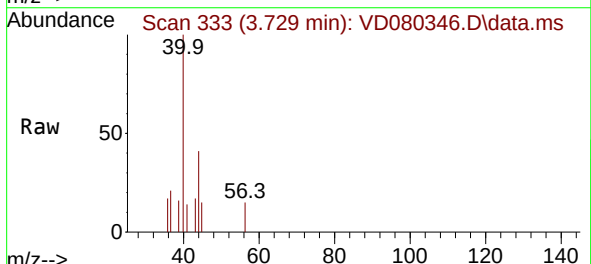
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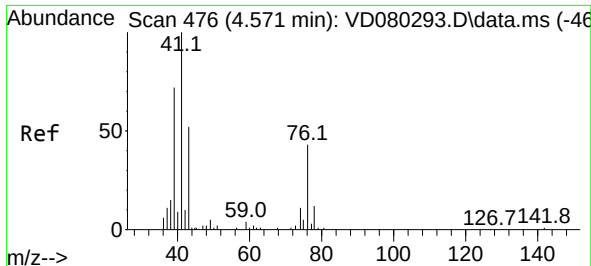
Tgt Ion: 59 Resp: 313
Ion Ratio Lower Upper
59 100
57 17.3 4.8 7.2#



#13
Acrolein
Concen: 1.376 ug/l
RT: 3.729 min Scan# 333
Delta R.T. -0.064 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

Tgt Ion: 56 Resp: 58
Ion Ratio Lower Upper
56 100
55 101.7 58.2 87.2#

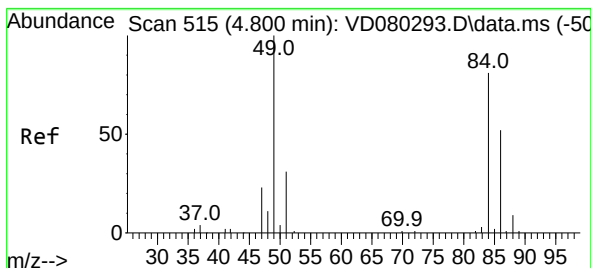
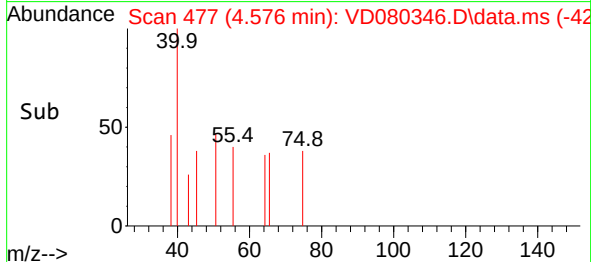
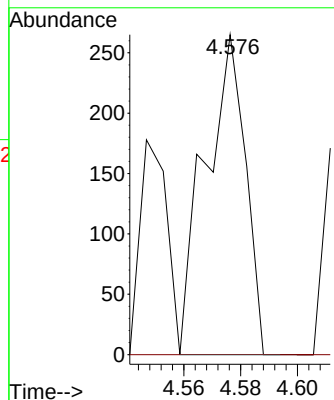
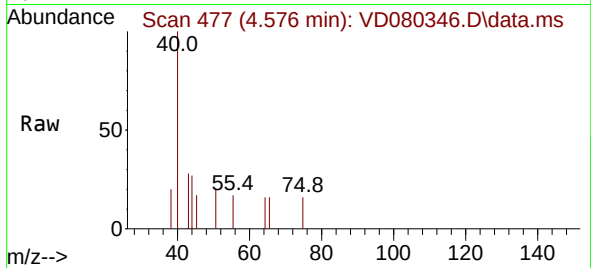




#18
Methyl Acetate
Concen: 1.021 ug/l
RT: 4.576 min Scan# 41
Delta R.T. 0.012 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

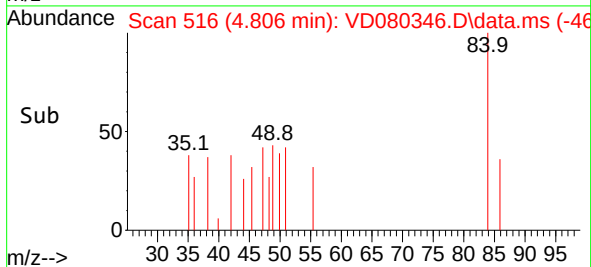
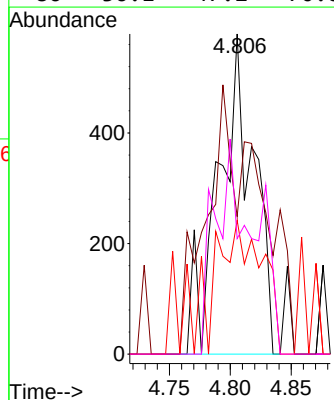
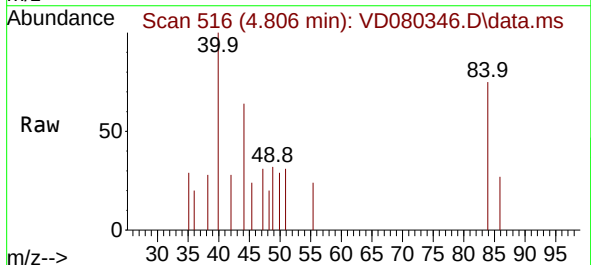
Instrument :
MSVOA_D
ClientSampleId :
281RE

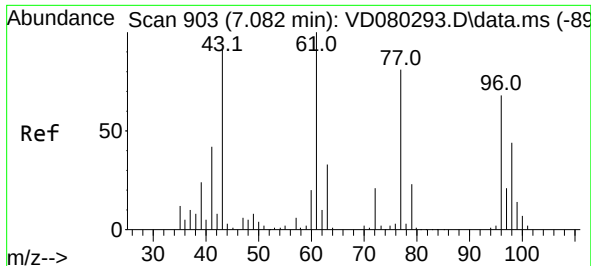
Tgt Ion: 43 Resp: 261
Ion Ratio Lower Upper
43 100
74 0.0 20.5 30.7#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.806 min Scan# 516
Delta R.T. 0.001 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

Tgt Ion: 84 Resp: 1149
Ion Ratio Lower Upper
84 100
49 43.0 86.5 129.7#
51 41.8 26.9 40.3#
86 36.1 47.2 70.8#

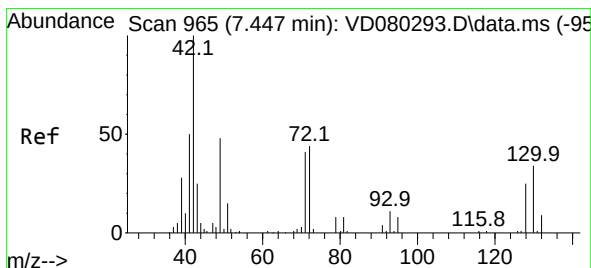
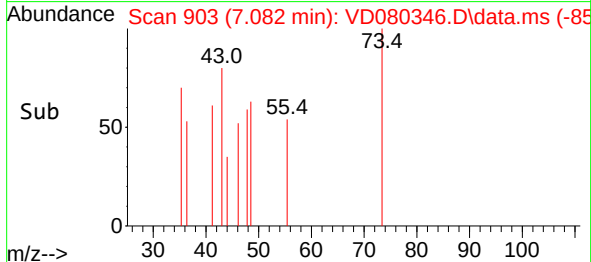
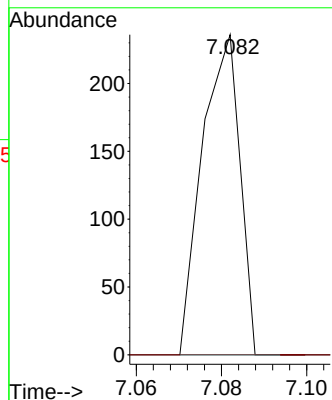
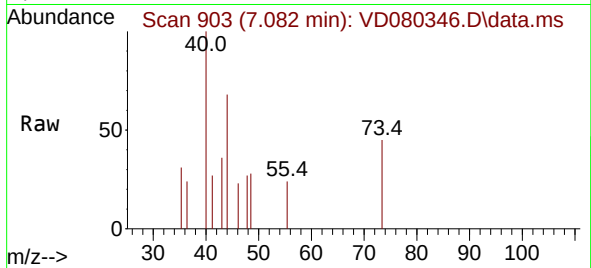




#25
2-Butanone
Concen: 1.334 ug/l
RT: 7.082 min Scan# 903
Delta R.T. -0.005 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

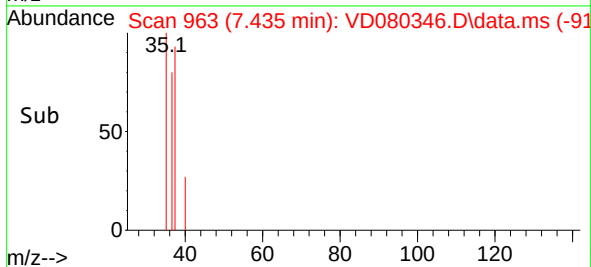
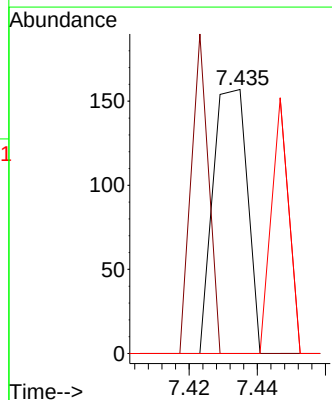
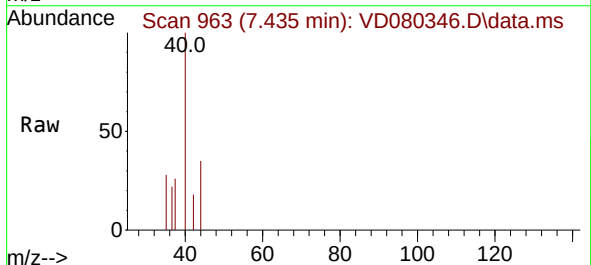
Instrument :
MSVOA_D
ClientSampleId :
281RE

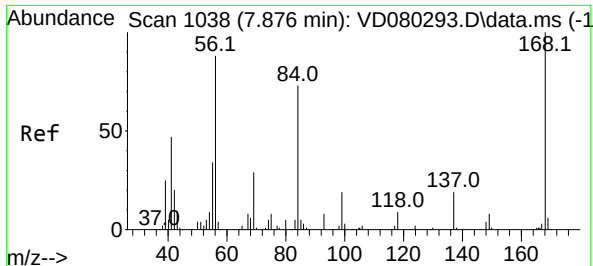
Tgt Ion: 43 Resp: 145
Ion Ratio Lower Upper
43 100
72 0.0 22.3 33.5#



#29
Tetrahydrofuran
Concen: 1.553 ug/l
RT: 7.435 min Scan# 963
Delta R.T. -0.011 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

Tgt Ion: 42 Resp: 110
Ion Ratio Lower Upper
42 100
72 0.0 36.7 55.1#
71 49.1 34.4 51.6





#31

Cyclohexane

Concen: 1.841 ug/l

RT: 7.876 min Scan# 1038

Delta R.T. -0.005 min

Lab File: VD080346.D

Acq: 15 May 2025 14:13

Instrument :

MSVOA_D

ClientSampleId :

281RE

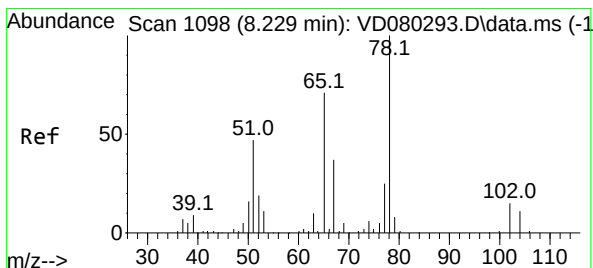
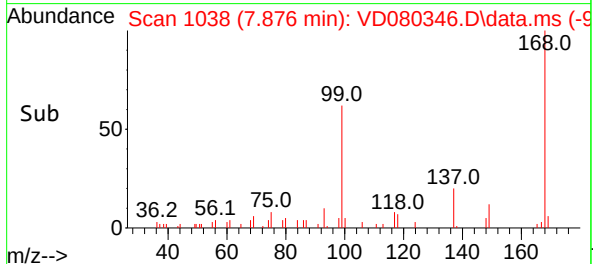
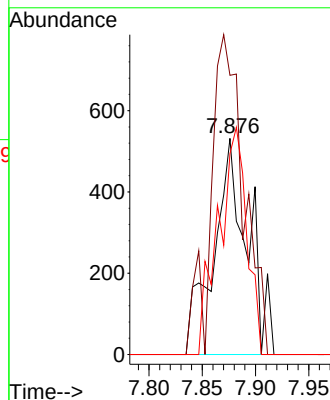
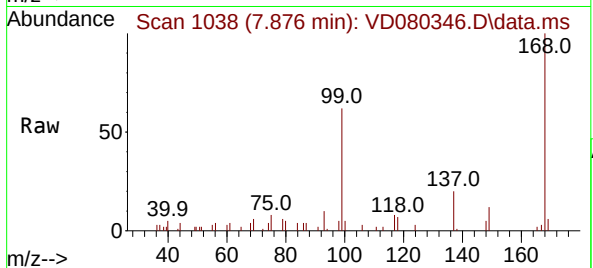
Tgt Ion: 56 Resp: 1181

Ion Ratio Lower Upper

56 100

69 129.1 27.3 40.9#

84 92.9 70.2 105.4



#33

1,2-Dichloroethane-d4

Concen: 70.870 ug/l

RT: 8.229 min Scan# 1098

Delta R.T. 0.001 min

Lab File: VD080346.D

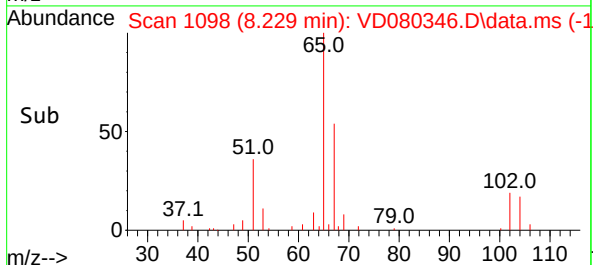
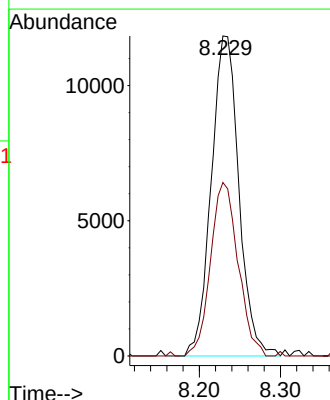
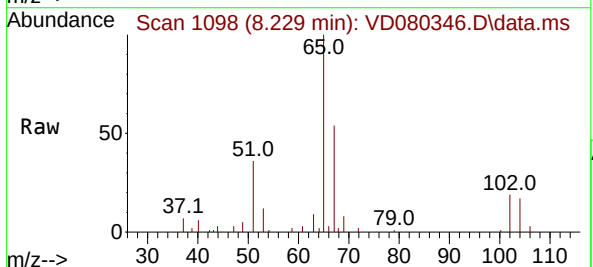
Acq: 15 May 2025 14:13

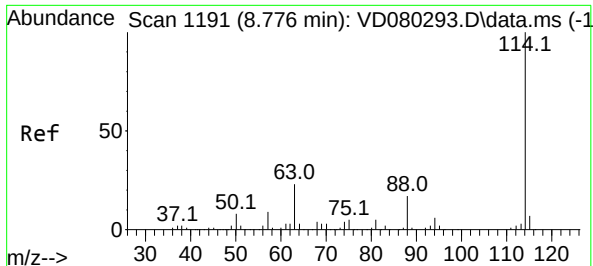
Tgt Ion: 65 Resp: 27987

Ion Ratio Lower Upper

65 100

67 54.0 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.776 min Scan# 1191

Delta R.T. 0.001 min

Lab File: VD080346.D

Acq: 15 May 2025 14:13

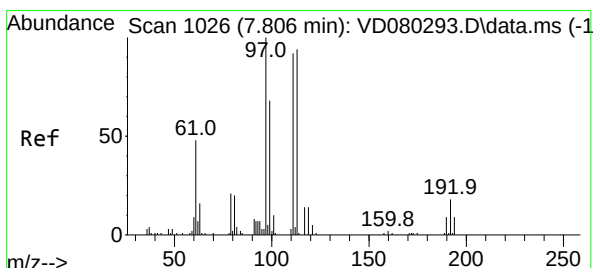
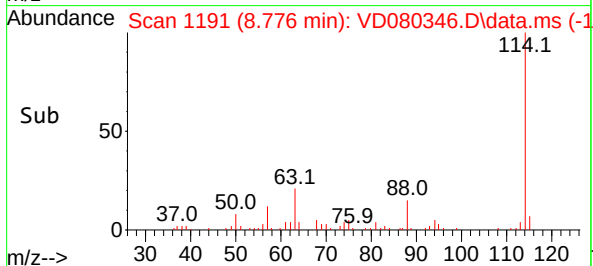
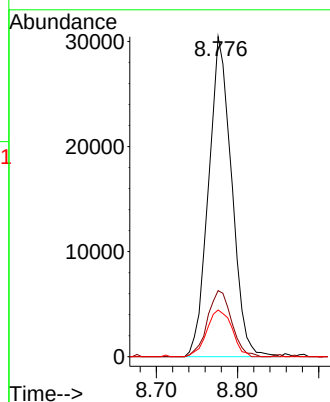
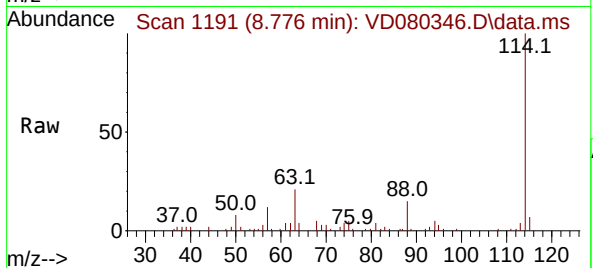
Instrument :

MSVOA_D

ClientSampleId :

281RE

Tgt Ion:	114	Resp:	60110
Ion Ratio	Lower	Upper	
114	100		
63	20.6	0.0	38.8
88	14.6	0.0	30.6



#35

Dibromofluoromethane

Concen: 71.138 ug/l

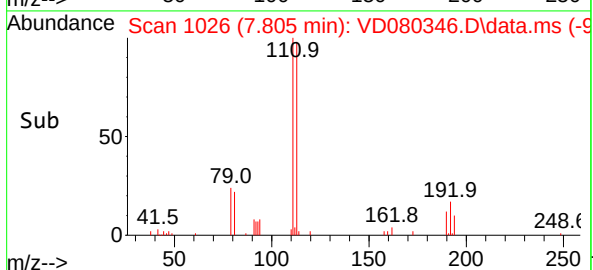
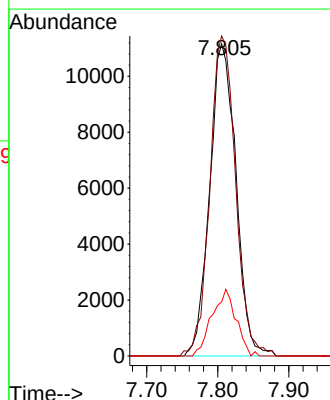
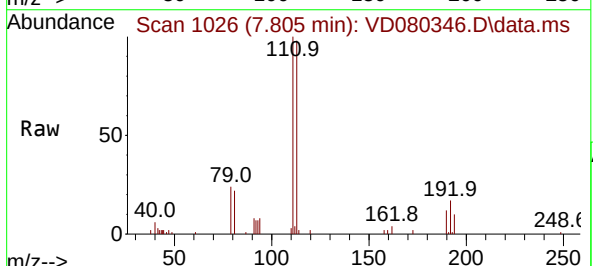
RT: 7.805 min Scan# 1026

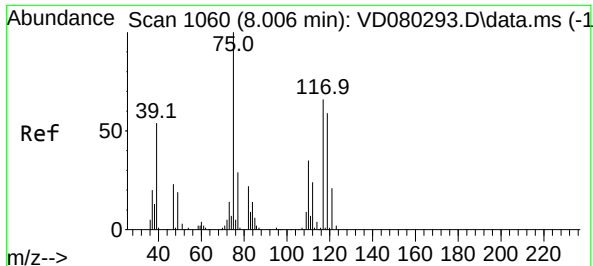
Delta R.T. 0.000 min

Lab File: VD080346.D

Acq: 15 May 2025 14:13

Tgt Ion:	113	Resp:	28660
Ion Ratio	Lower	Upper	
113	100		
111	100.3	82.5	123.7
192	19.6	16.6	25.0





#36

1,1-Dichloropropene

Concen: 4.982 ug/l

RT: 7.870 min Scan# 1037

Delta R.T. -0.135 min

Lab File: VD080346.D

Acq: 15 May 2025 14:13

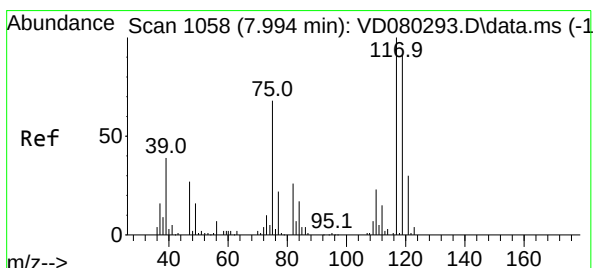
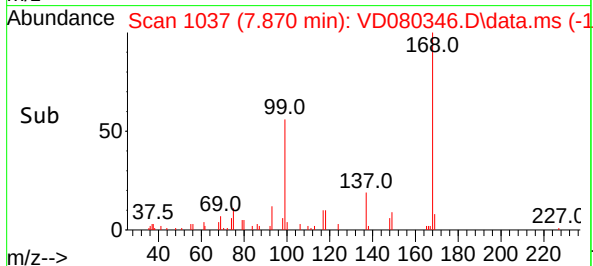
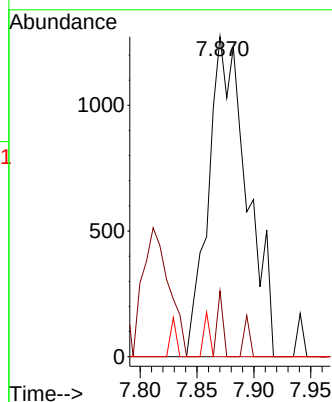
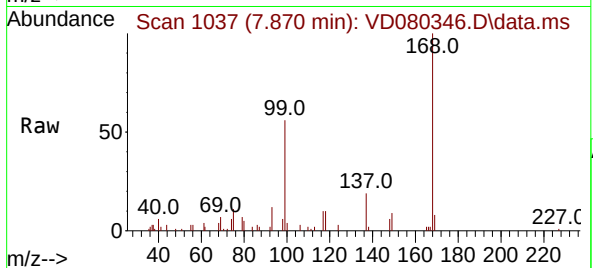
Instrument :

MSVOA_D

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Tgt Ion:	75	Resp:	3000
Ion	Ratio	Lower	Upper
75	100		
110	3.1	18.4	55.0#
77	2.1	25.6	38.4#



#38

Carbon Tetrachloride

Concen: 5.082 ug/l

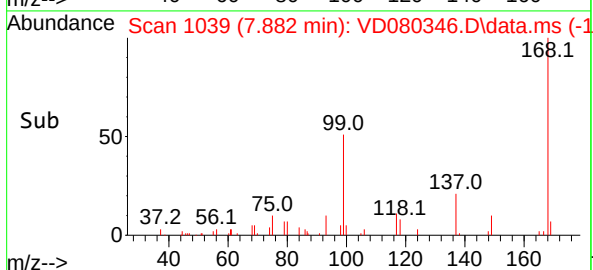
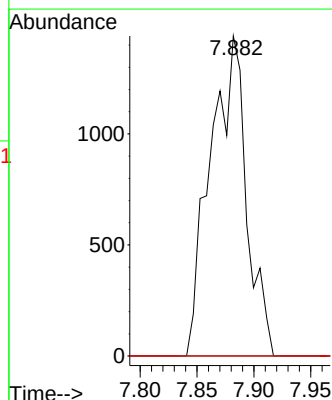
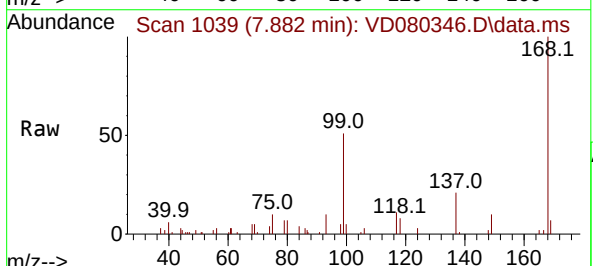
RT: 7.882 min Scan# 1039

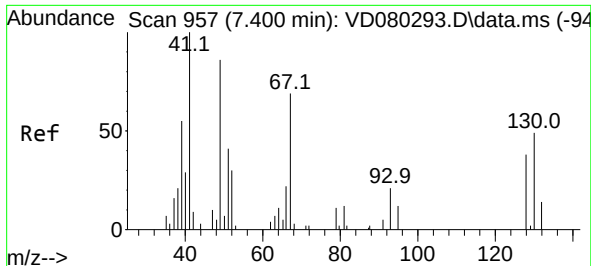
Delta R.T. -0.105 min

Lab File: VD080346.D

Acq: 15 May 2025 14:13

Tgt Ion:	117	Resp:	3191
Ion	Ratio	Lower	Upper
117	100		
119	0.0	73.4	110.0#
121	0.0	24.5	36.7#

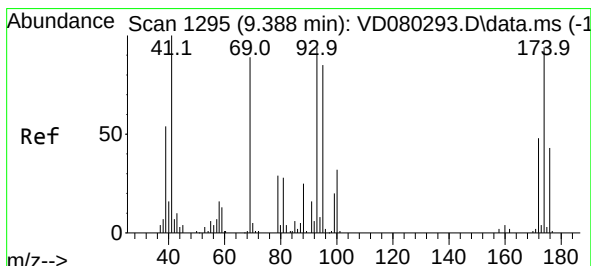
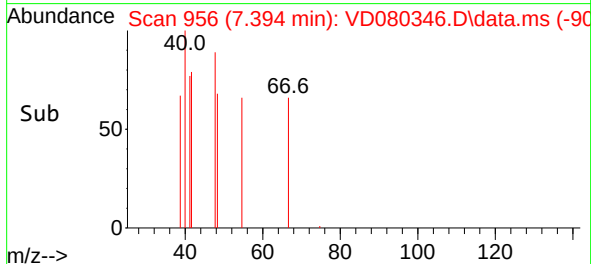
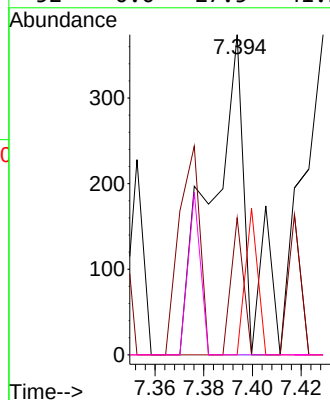
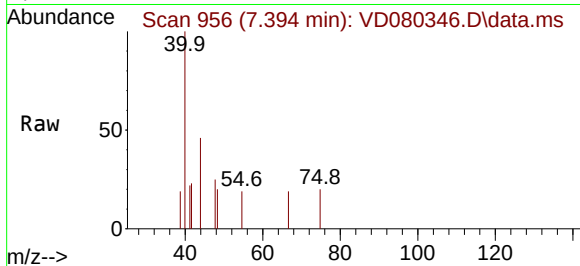




#41
Methacrylonitrile
Concen: 2.256 ug/l
RT: 7.394 min Scan# 91
Delta R.T. -0.005 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

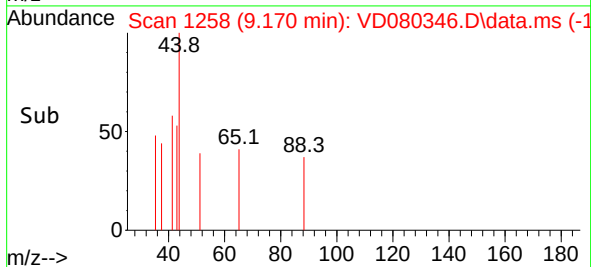
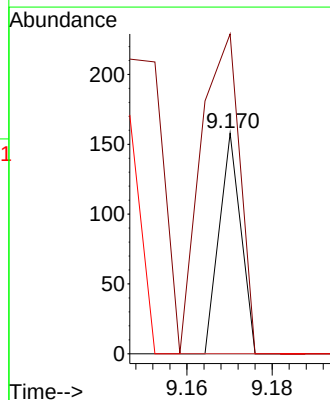
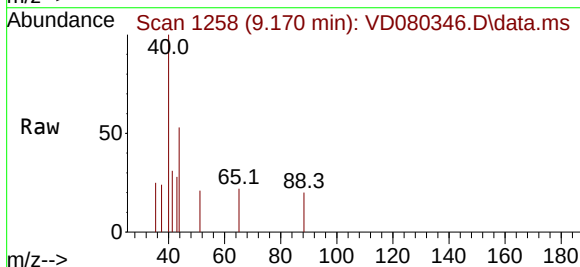
Instrument :
MSVOA_D
ClientSampleId :
281RE

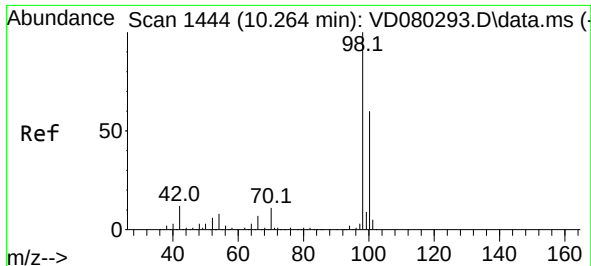
Tgt Ion: 41	Resp: 393
Ion Ratio	Lower Upper
41 100	
39 14.2	47.8 71.8#
67 15.3	64.9 97.3#
52 0.0	27.5 41.3#



#49
1,4-Dioxane
Concen: 17.880 ug/l
RT: 9.170 min Scan# 1258
Delta R.T. -0.217 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

Tgt Ion: 88	Resp:	56	
Ion	Ratio	Lower	Upper
88	100		
43	258.9	29.1	43.7#
58	0.0	59.9	89.9#

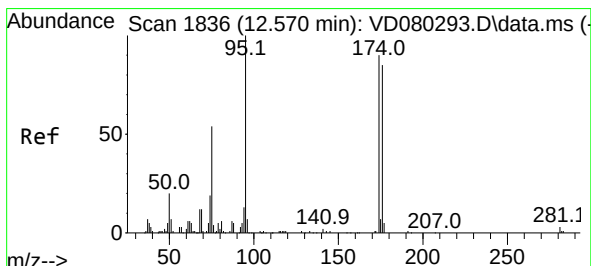
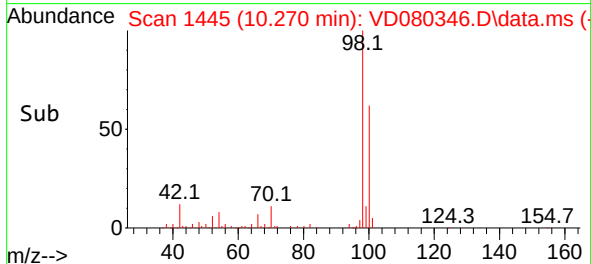
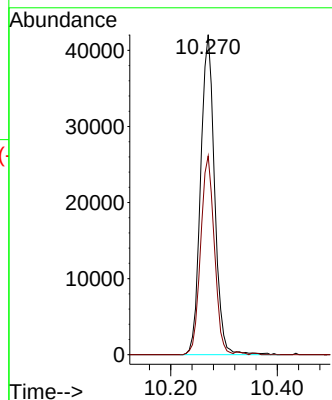
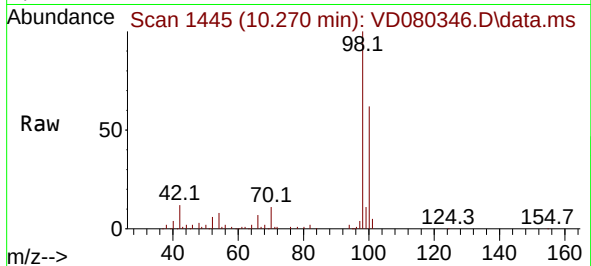




#50
Toluene-d8
Concen: 48.161 ug/l
RT: 10.270 min Scan# 1444
Delta R.T. 0.001 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

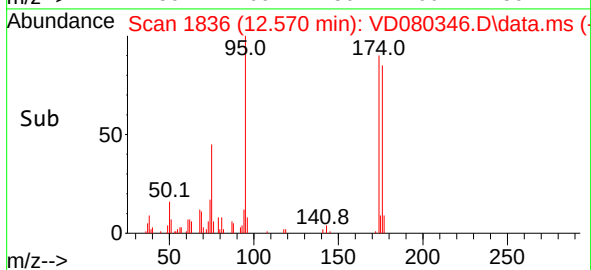
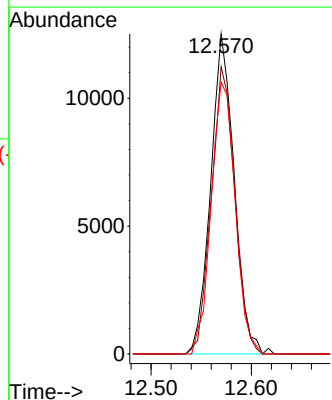
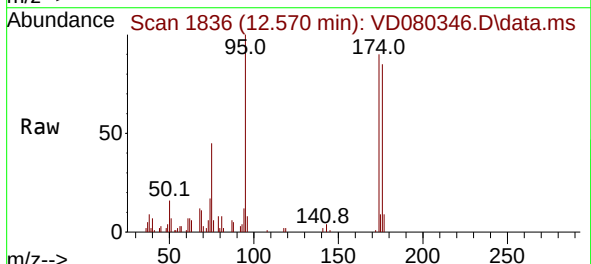
Instrument :
MSVOA_D
ClientSampleId :
281RE

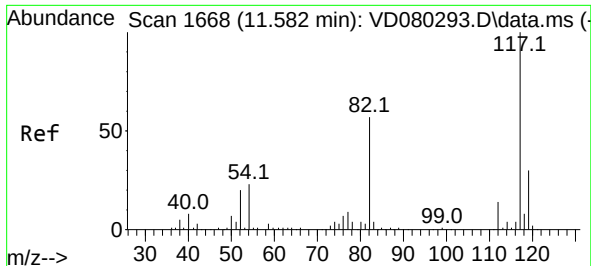
Tgt Ion: 98 Resp: 76450
Ion Ratio Lower Upper
98 100
100 61.0 50.2 75.4



#62
4-Bromofluorobenzene
Concen: 40.059 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. 0.001 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

Tgt Ion: 95 Resp: 20410
Ion Ratio Lower Upper
95 100
174 90.2 0.0 173.4
176 86.7 0.0 166.6

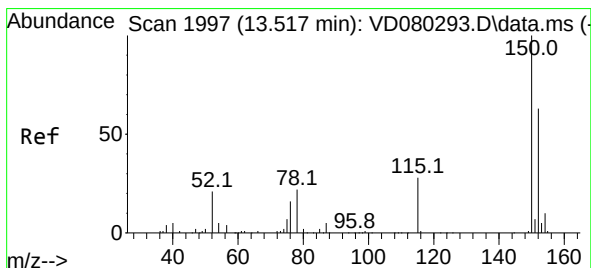
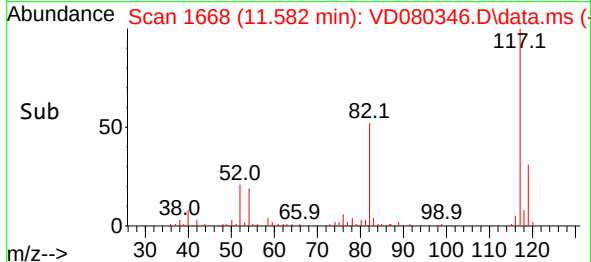
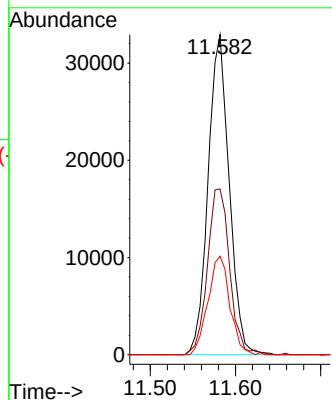
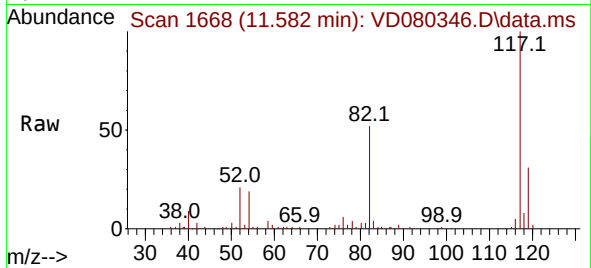




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.582 min Scan# 117
Delta R.T. 0.001 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

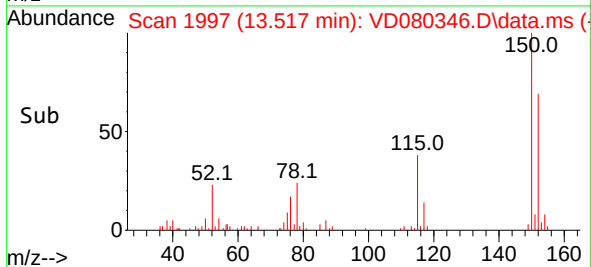
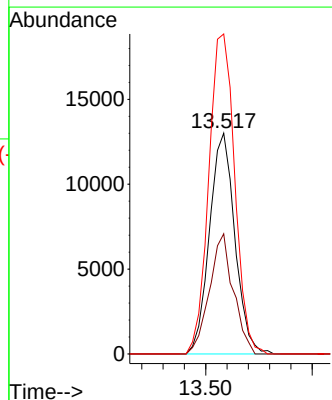
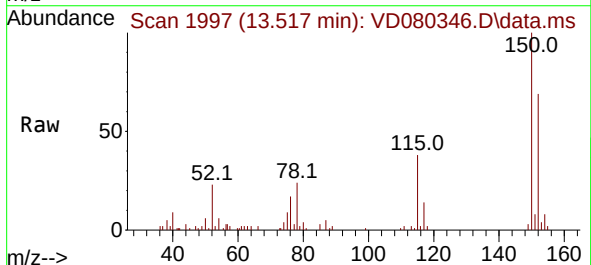
Instrument :
MSVOA_D
ClientSampleId :
281RE

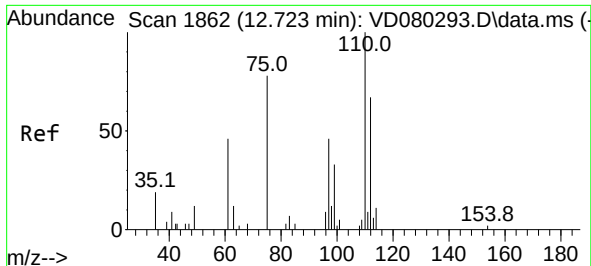
Tgt Ion:117 Resp: 56721
Ion Ratio Lower Upper
117 100
82 51.8 45.8 68.6
119 30.7 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.517 min Scan# 1997
Delta R.T. 0.001 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

Tgt Ion:152 Resp: 21525
Ion Ratio Lower Upper
152 100
115 51.2 28.9 86.8
150 147.8 0.0 354.8

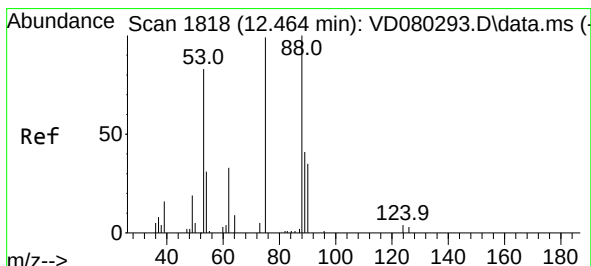
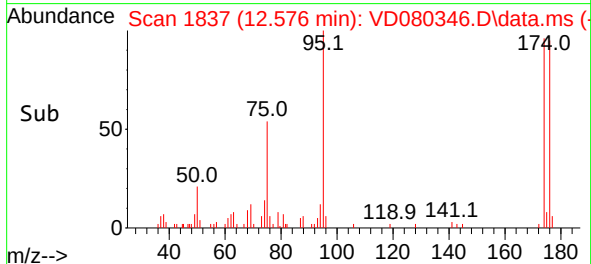
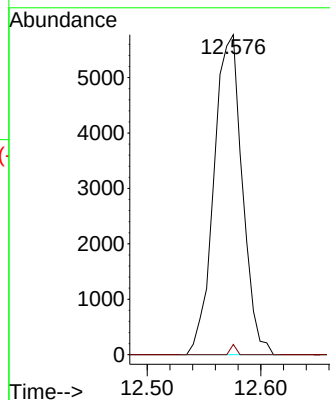
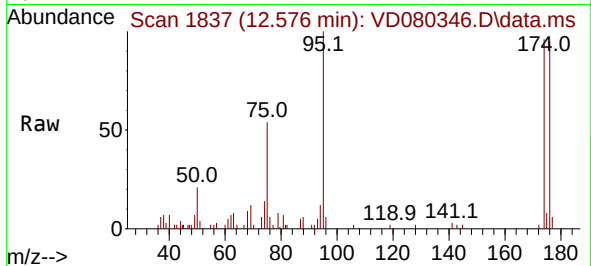




#76
1,2,3-Trichloropropane
Concen: 48.261 ug/l
RT: 12.576 min Scan# 1837
Delta R.T. -0.146 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

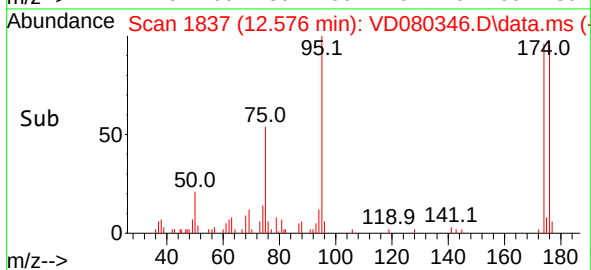
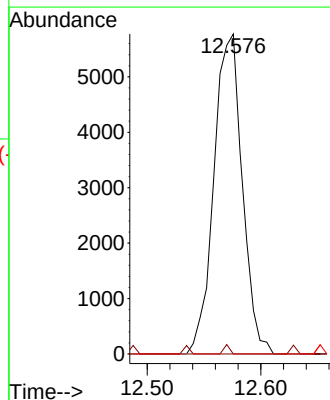
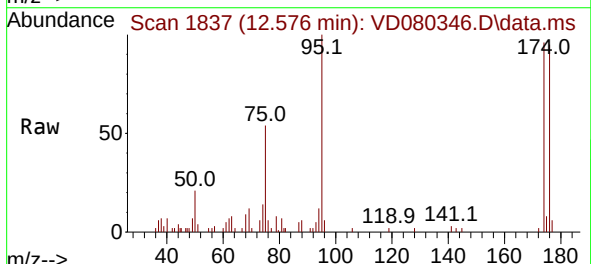
Instrument :
MSVOA_D
ClientSampleId :
281RE

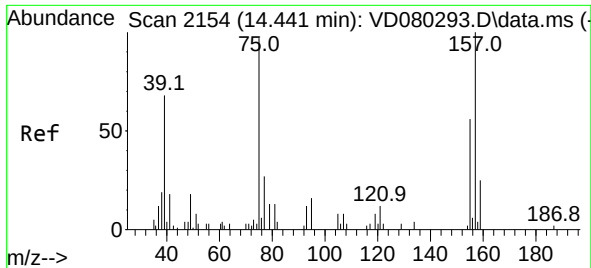
Tgt Ion: 75 Resp: 10026
Ion Ratio Lower Upper
75 100
77 0.6 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.608 ug/l
RT: 12.576 min Scan# 1837
Delta R.T. 0.107 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

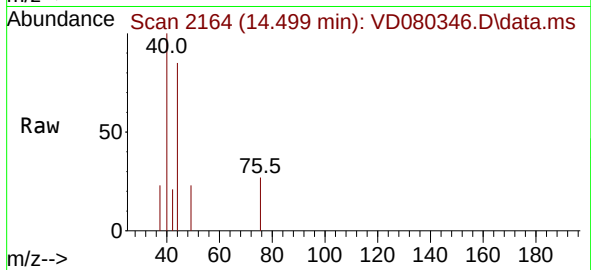
Tgt Ion: 75 Resp: 10026
Ion Ratio Lower Upper
75 100
53 0.6 68.7 103.1#
89 0.0 36.1 54.1#





#92
1,2-Dibromo-3-Chloropropane
Concen: 1.390 ug/l
RT: 14.499 min Scan# 21
Delta R.T. 0.059 min
Lab File: VD080346.D
Acq: 15 May 2025 14:13

Instrument :
MSVOA_D
ClientSampleId :
281RE



Tgt Ion:	75	Resp:	68
Ion	Ratio	Lower	Upper
75	100		
155	0.0	40.6	122.0#
157	0.0	53.3	159.9#

