

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051525\
 Data File : VD080342.D
 Acq On : 15 May 2025 12:26
 Operator : RP/MD
 Sample : Q2038-01
 Misc : 4.51G/10ml/MSVOA_D/SOIL/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 72-11991

Quant Time: May 16 02:55:00 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)

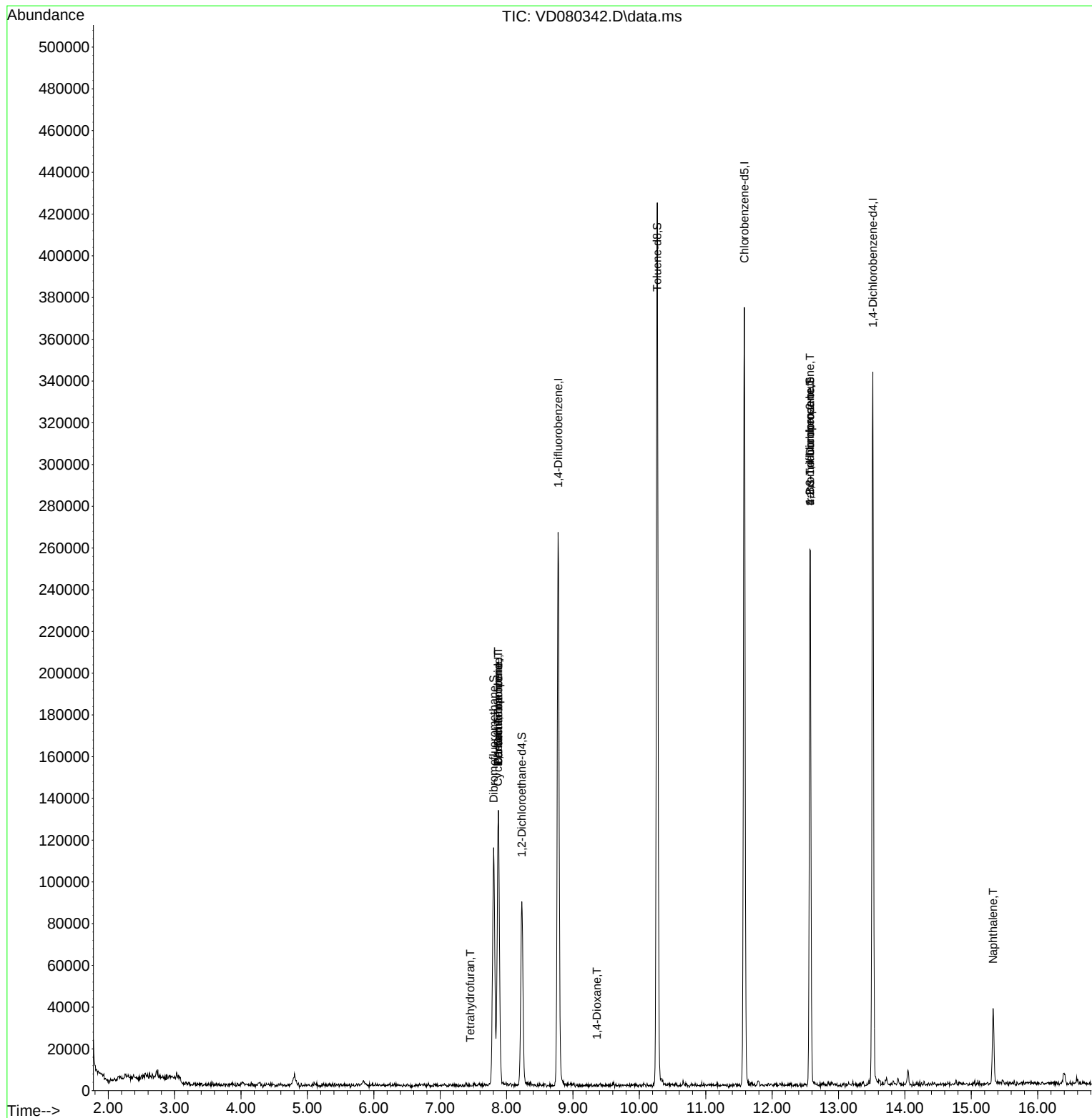
Internal Standards						
1) Pentafluorobenzene	7.876	168	99484	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.776	114	222127	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.582	117	206948	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.517	152	89473	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.229	65	71919	55.903	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	111.800%
35) Dibromofluoromethane	7.805	113	80979	54.393	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	108.780%
50) Toluene-d8	10.270	98	286664	48.869	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.740%
62) 4-Bromofluorobenzene	12.570	95	80982	43.012	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	86.020%
Target Compounds						
2) Dichlorodifluoromethane	1.876	85	66	Below Cal	#	3
3) Chloromethane	2.159	50	602	Below Cal	#	77
16) Acetone	4.017	43	2211	Below Cal		99
20) Methylene Chloride	4.806	84	3607	Below Cal		88
29) Tetrahydrofuran	7.453	42	354	1.534	ug/l #	44
31) Cyclohexane	7.870	56	3075	1.471	ug/l #	51
36) 1,1-Dichloropropene	7.876	75	8781	3.946	ug/l #	45
38) Carbon Tetrachloride	7.876	117	10362	4.466	ug/l #	17
49) 1,4-Dioxane	9.358	88	53	4.579	ug/l #	1
76) 1,2,3-Trichloropropane	12.570	75	41979	48.613	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.570	75	41979	92.276	ug/l #	15
95) Naphthalene	15.329	128	29995	9.313	ug/l	99

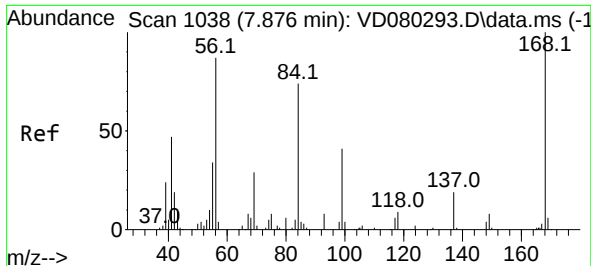
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

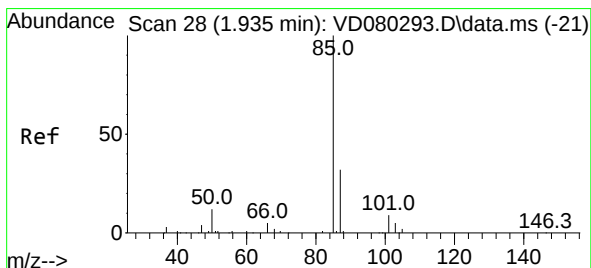
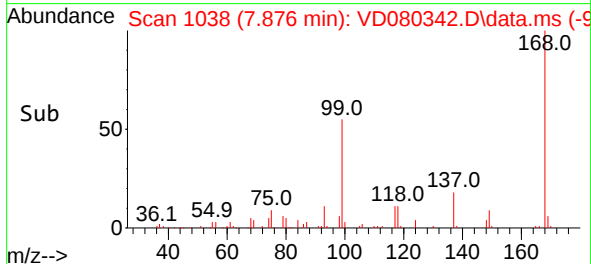
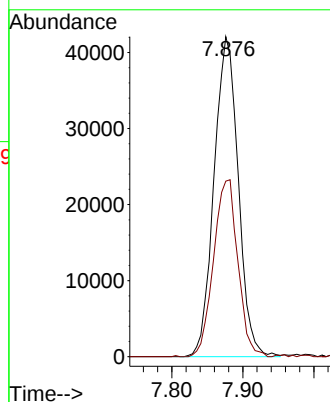
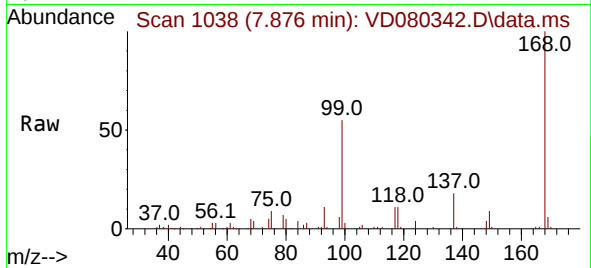




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.876 min Scan# 10
Delta R.T. 0.001 min
Lab File: VD080342.D
Acq: 15 May 2025 12:26

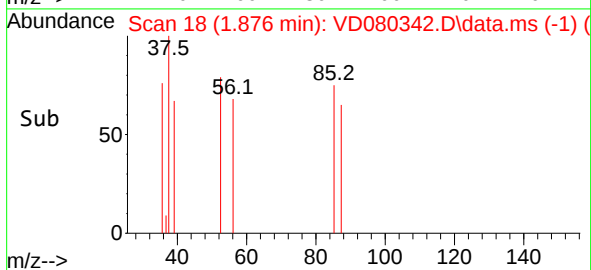
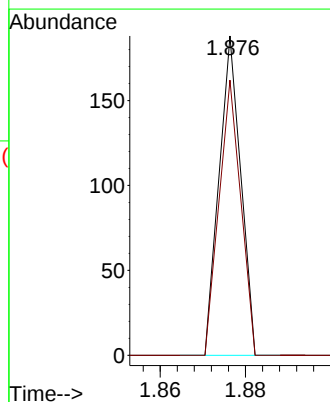
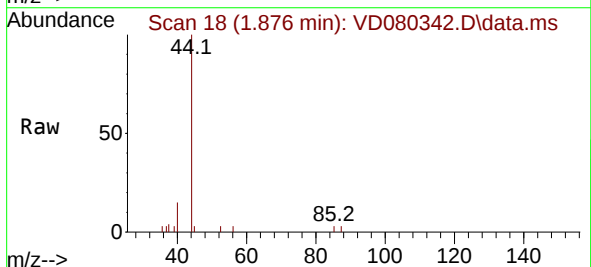
Instrument :
MSVOA_D
ClientSampleId :
72-11991

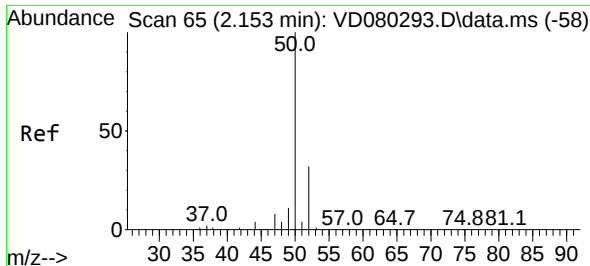
Tgt Ion:168 Resp: 99484
Ion Ratio Lower Upper
168 100
99 54.8 46.0 69.0



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.876 min Scan# 18
Delta R.T. -0.058 min
Lab File: VD080342.D
Acq: 15 May 2025 12:26

Tgt Ion: 85 Resp: 66
Ion Ratio Lower Upper
85 100
87 86.2 16.1 48.2#

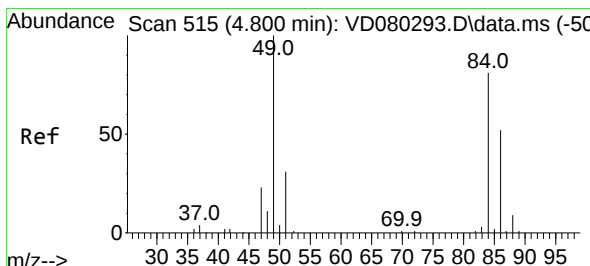
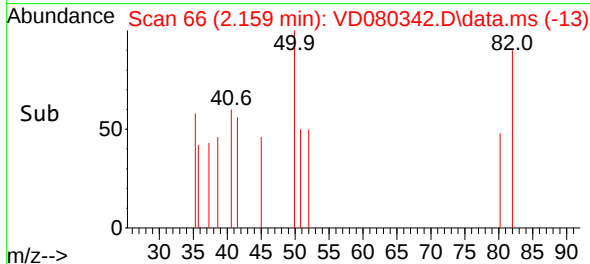
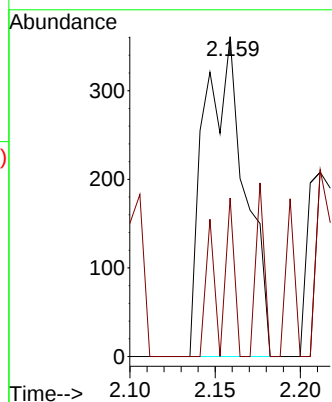
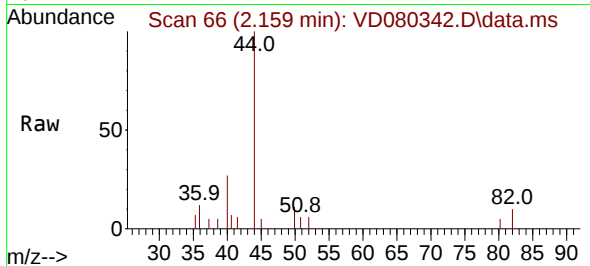




#3
Chloromethane
Concen: Below Cal
RT: 2.159 min Scan# 60
Delta R.T. 0.013 min
Lab File: VD080342.D
Acq: 15 May 2025 12:26

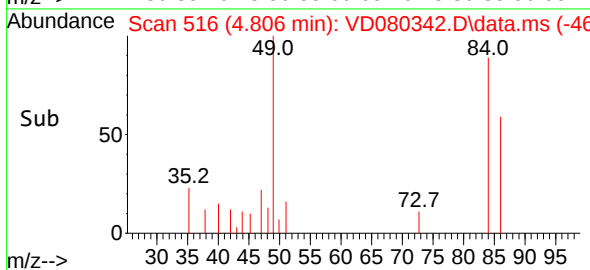
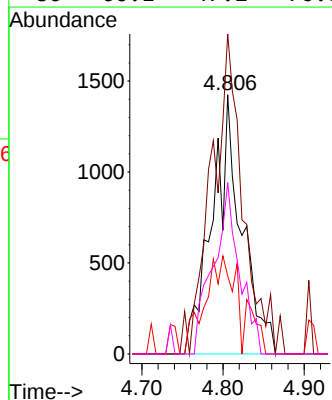
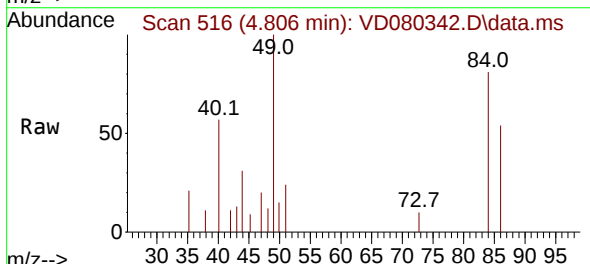
Instrument :
MSVOA_D
ClientSampleId :
72-11991

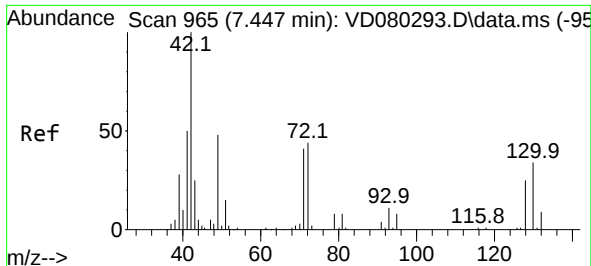
Tgt Ion: 50 Resp: 602
Ion Ratio Lower Upper
50 100
52 49.6 28.8 43.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.806 min Scan# 516
Delta R.T. 0.001 min
Lab File: VD080342.D
Acq: 15 May 2025 12:26

Tgt Ion: 84 Resp: 3607
Ion Ratio Lower Upper
84 100
49 123.4 86.5 129.7
51 30.1 26.9 40.3
86 66.1 47.2 70.8





#29

Tetrahydrofuran

Concen: 1.534 ug/l

RT: 7.453 min Scan# 9

Delta R.T. 0.007 min

Lab File: VD080342.D

Acq: 15 May 2025 12:26

Instrument :

MSVOA_D

ClientSampleId :

72-11991

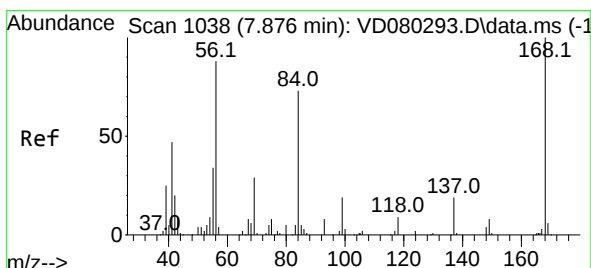
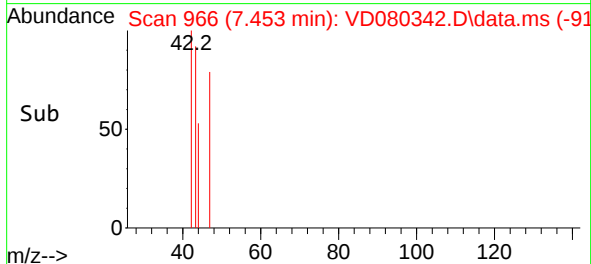
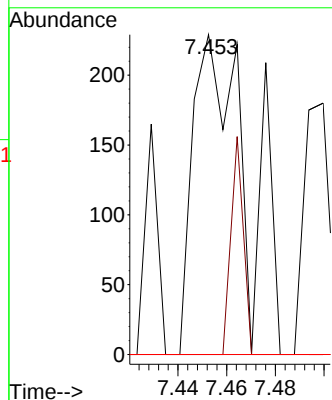
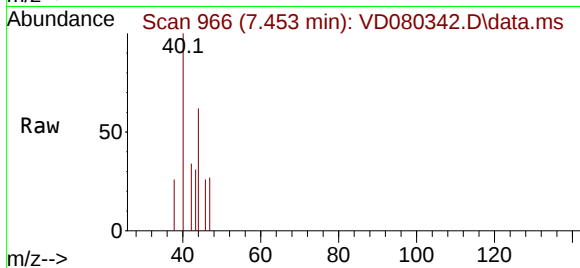
Tgt Ion: 42 Resp: 354

Ion Ratio Lower Upper

42 100

72 15.5 36.7 55.1#

71 0.0 34.4 51.6#



#31

Cyclohexane

Concen: 1.471 ug/l

RT: 7.870 min Scan# 1037

Delta R.T. -0.011 min

Lab File: VD080342.D

Acq: 15 May 2025 12:26

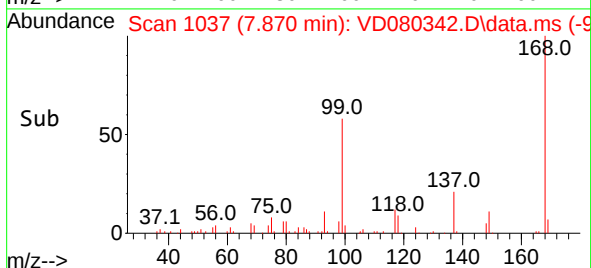
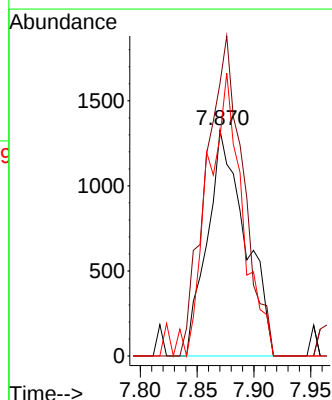
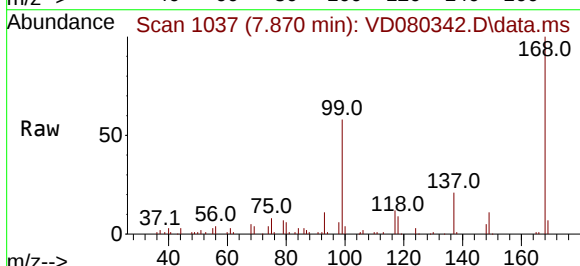
Tgt Ion: 56 Resp: 3075

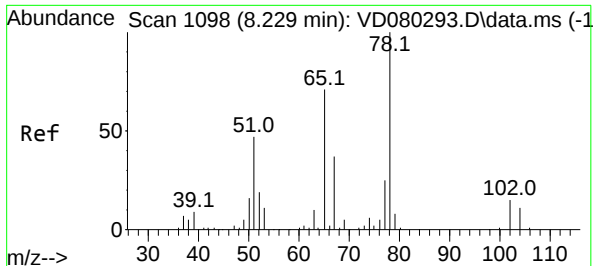
Ion Ratio Lower Upper

56 100

69 120.9 27.3 40.9#

84 97.1 70.2 105.4





#33

1,2-Dichloroethane-d4

Concen: 55.903 ug/l

RT: 8.229 min Scan# 1098

Delta R.T. 0.001 min

Lab File: VD080342.D

Acq: 15 May 2025 12:26

Instrument :

MSVOA_D

ClientSampleId :

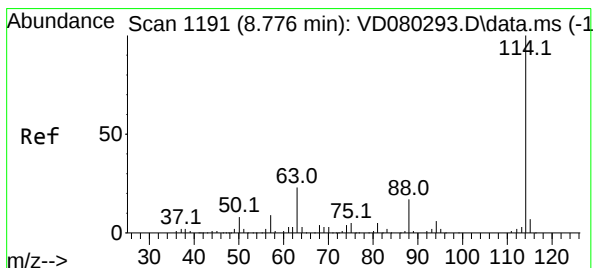
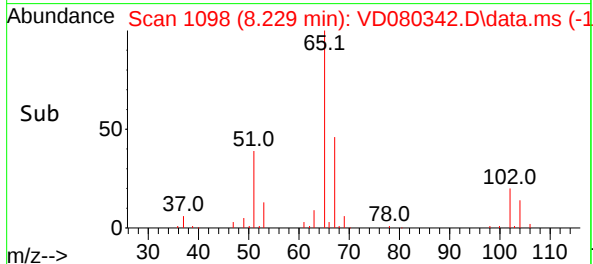
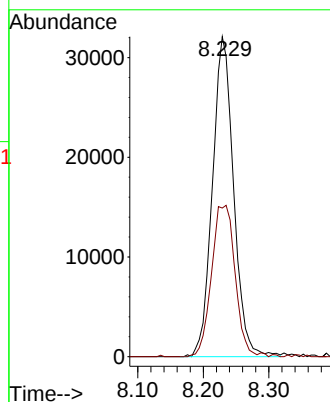
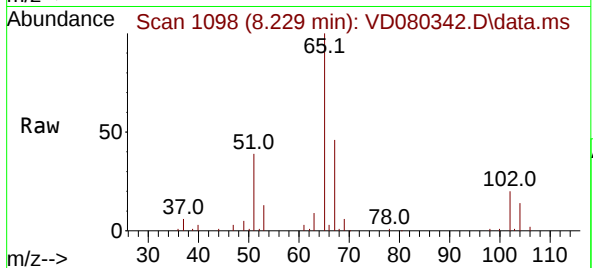
72-11991

Tgt Ion: 65 Resp: 71919

Ion Ratio Lower Upper

65 100

67 52.7 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: VD080342.D

Acq: 15 May 2025 12:26

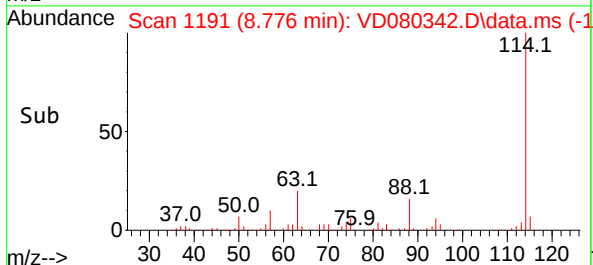
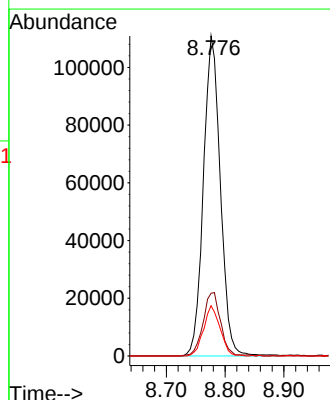
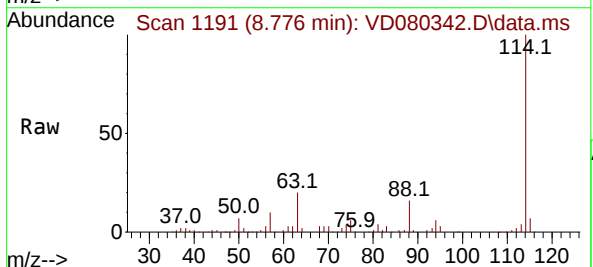
Tgt Ion: 114 Resp: 222127

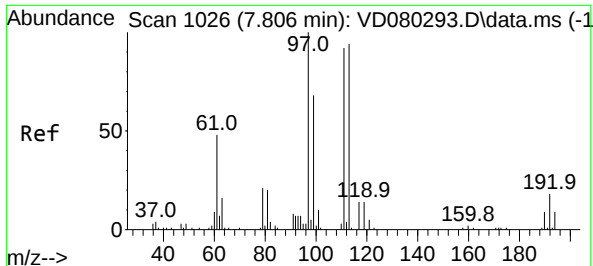
Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.8

88 15.7 0.0 30.6





#35

Dibromofluoromethane

Concen: 54.393 ug/l

RT: 7.805 min Scan# 1038

Delta R.T. 0.000 min

Lab File: VD080342.D

Acq: 15 May 2025 12:26

Instrument :

MSVOA_D

ClientSampleId :

72-11991

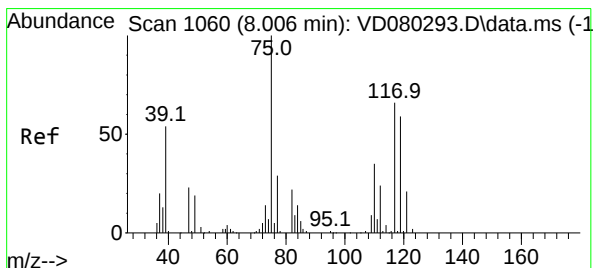
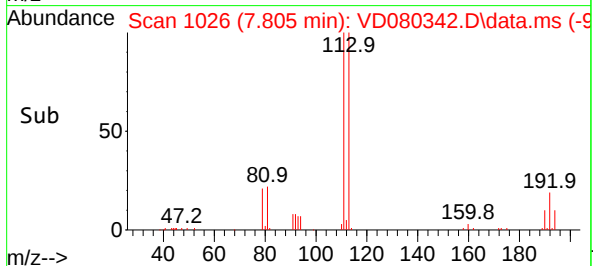
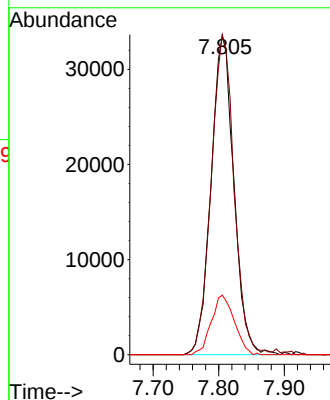
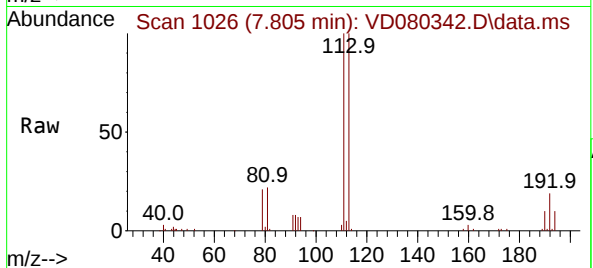
Tgt Ion:113 Resp: 80979

Ion Ratio Lower Upper

113 100

111 100.5 82.5 123.7

192 18.8 16.6 25.0



#36

1,1-Dichloropropene

Concen: 3.946 ug/l

RT: 7.876 min Scan# 1038

Delta R.T. -0.129 min

Lab File: VD080342.D

Acq: 15 May 2025 12:26

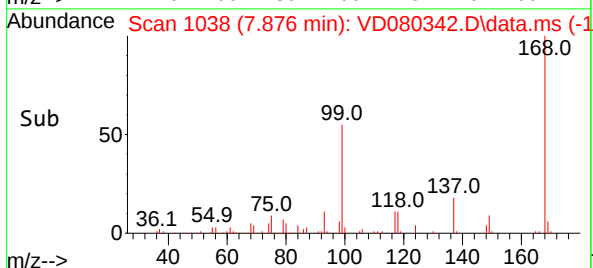
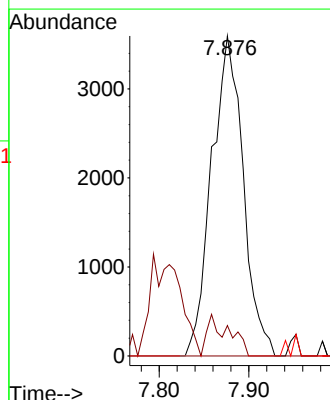
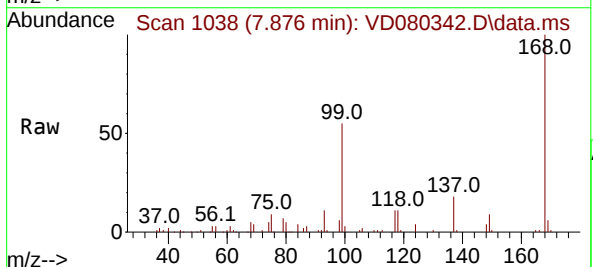
Tgt Ion: 75 Resp: 8781

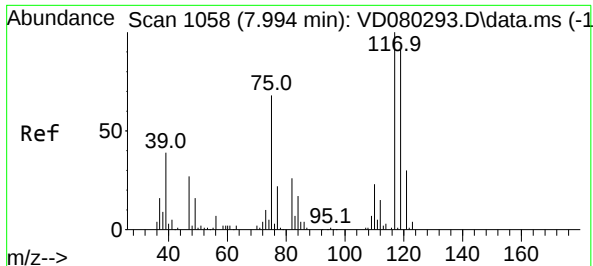
Ion Ratio Lower Upper

75 100

110 4.9 18.4 55.0#

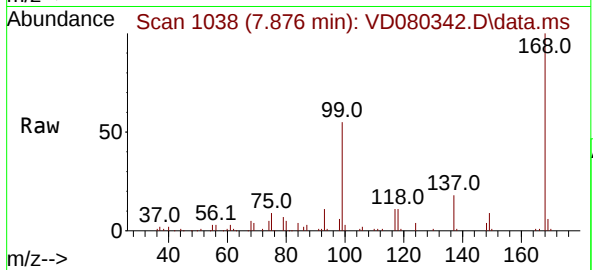
77 0.0 25.6 38.4#



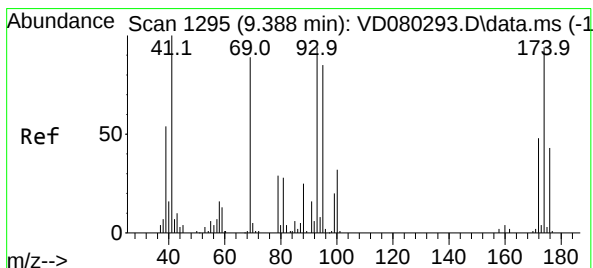
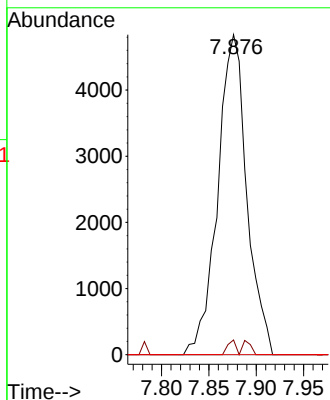
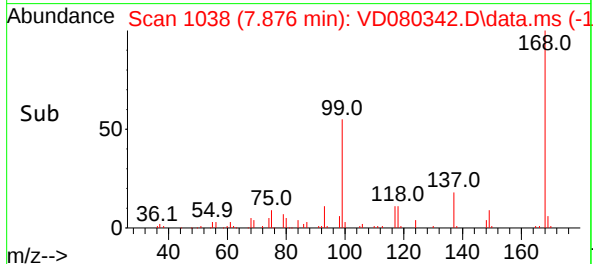


#38
Carbon Tetrachloride
Concen: 4.466 ug/l
RT: 7.876 min Scan# 1058
Delta R.T. -0.111 min
Lab File: VD080342.D
Acq: 15 May 2025 12:26

Instrument :
MSVOA_D
ClientSampleId :
72-11991

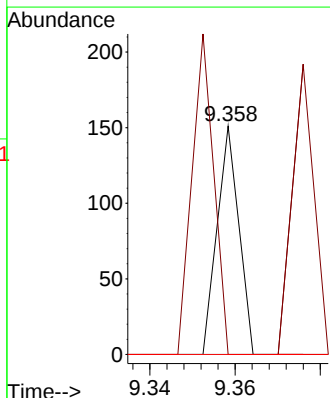
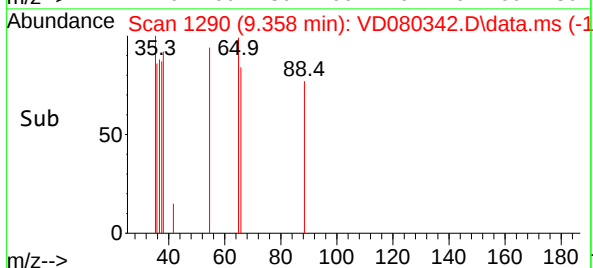
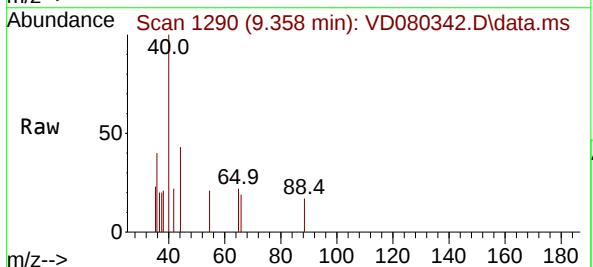


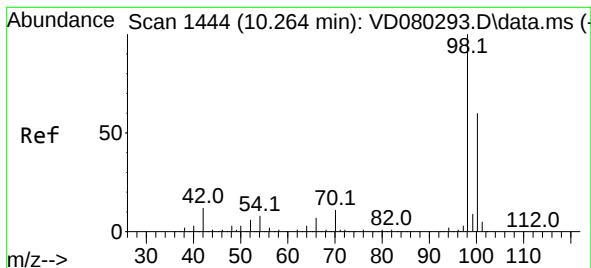
Tgt Ion:117 Resp: 10362
Ion Ratio Lower Upper
117 100
119 4.6 73.4 110.0#
121 0.0 24.5 36.7#



#49
1,4-Dioxane
Concen: 4.579 ug/l
RT: 9.358 min Scan# 1290
Delta R.T. -0.029 min
Lab File: VD080342.D
Acq: 15 May 2025 12:26

Tgt Ion: 88 Resp: 53
Ion Ratio Lower Upper
88 100
43 141.5 29.1 43.7#
58 0.0 59.9 89.9#





#50

Toluene-d8

Concen: 48.869 ug/l

RT: 10.270 min Scan# 1444

Delta R.T. 0.001 min

Lab File: VD080342.D

Acq: 15 May 2025 12:26

Instrument :

MSVOA_D

ClientSampleId :

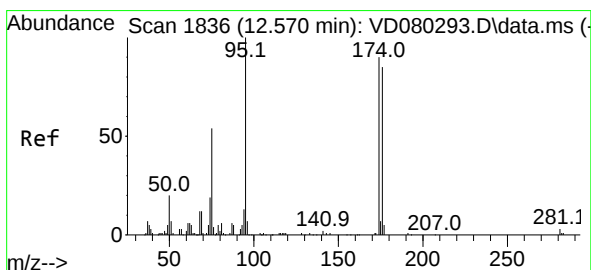
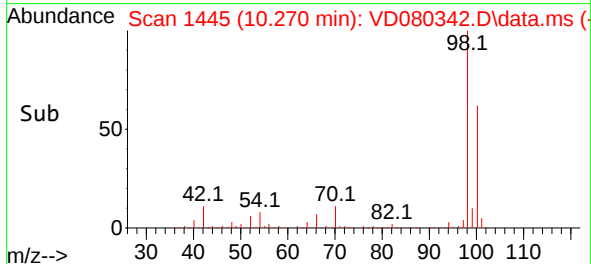
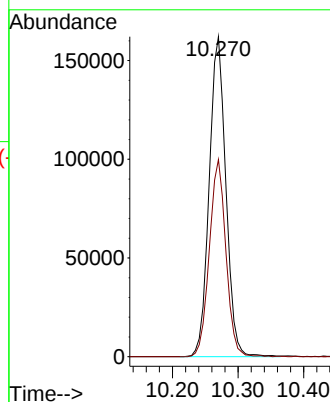
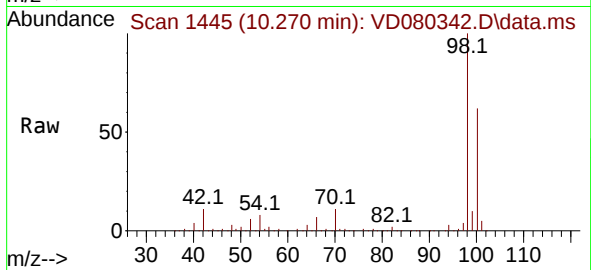
72-11991

Tgt Ion: 98 Resp: 286664

Ion Ratio Lower Upper

98 100

100 61.2 50.2 75.4



#62

4-Bromofluorobenzene

Concen: 43.012 ug/l

RT: 12.570 min Scan# 1836

Delta R.T. 0.001 min

Lab File: VD080342.D

Acq: 15 May 2025 12:26

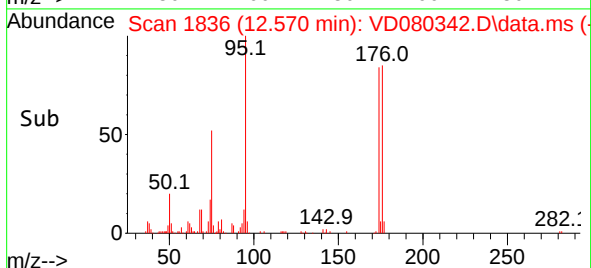
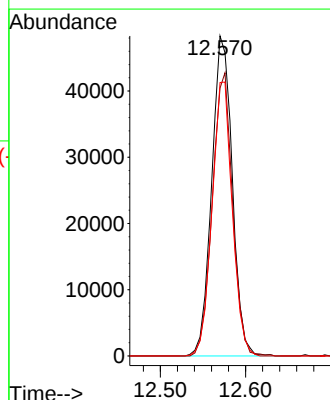
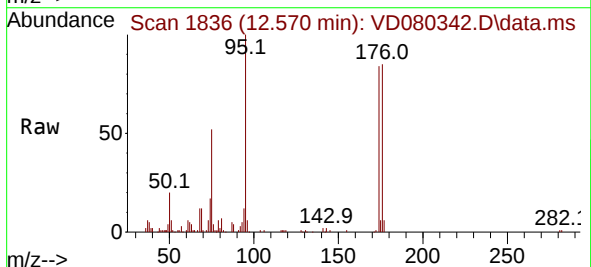
Tgt Ion: 95 Resp: 80982

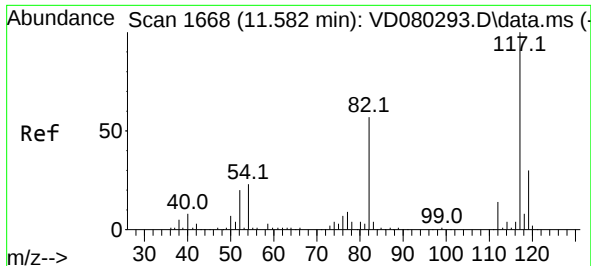
Ion Ratio Lower Upper

95 100

174 87.3 0.0 173.4

176 84.4 0.0 166.6

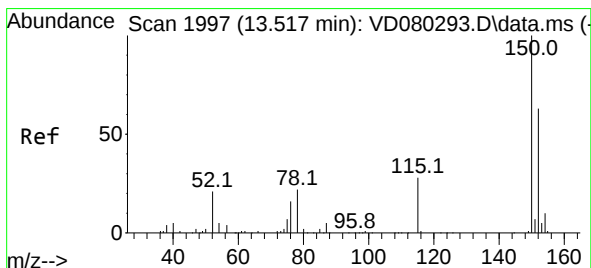
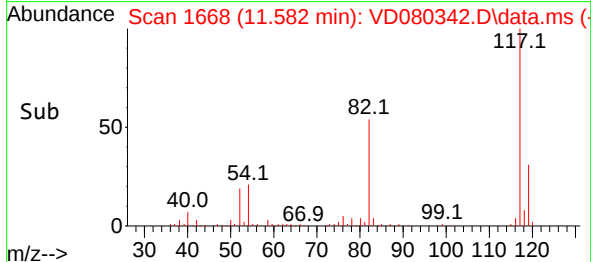
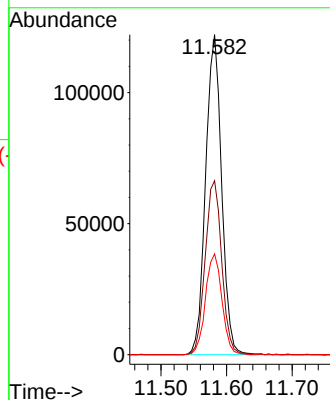
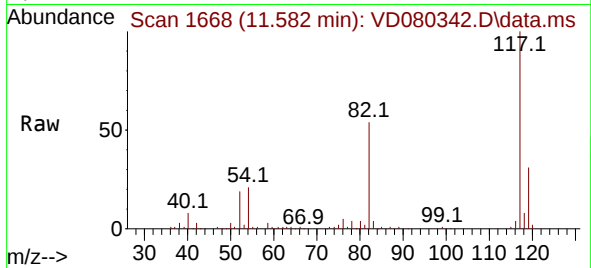




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.582 min Scan# 117
Delta R.T. 0.001 min
Lab File: VD080342.D
Acq: 15 May 2025 12:26

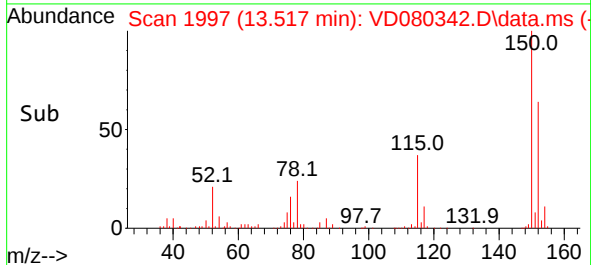
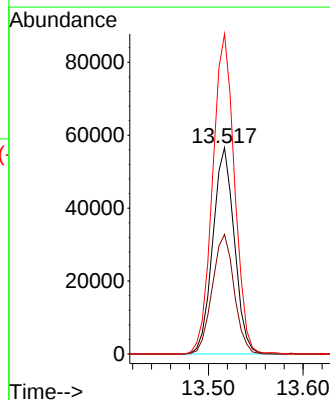
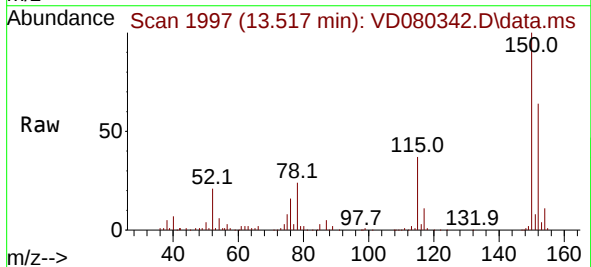
Instrument :
MSVOA_D
ClientSampleId :
72-11991

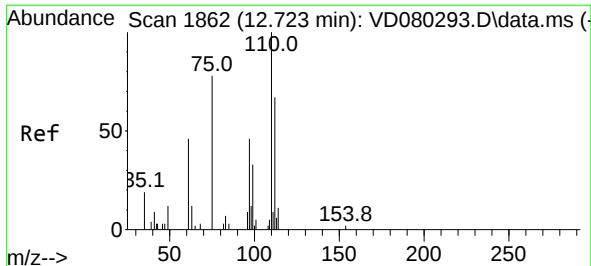
Tgt Ion:117 Resp: 206948
Ion Ratio Lower Upper
117 100
82 54.4 45.8 68.6
119 31.5 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.517 min Scan# 1997
Delta R.T. 0.001 min
Lab File: VD080342.D
Acq: 15 May 2025 12:26

Tgt Ion:152 Resp: 89473
Ion Ratio Lower Upper
152 100
115 58.8 28.9 86.8
150 157.6 0.0 354.8

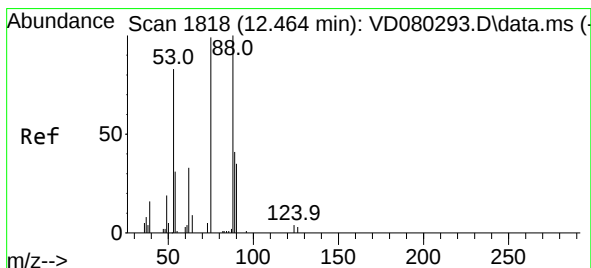
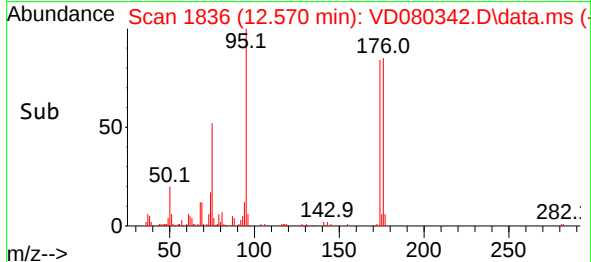
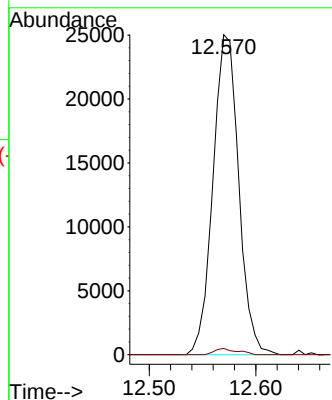
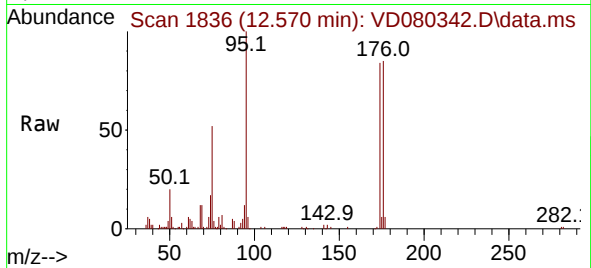




#76
1,2,3-Trichloropropane
Concen: 48.613 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. -0.152 min
Lab File: VD080342.D
Acq: 15 May 2025 12:26

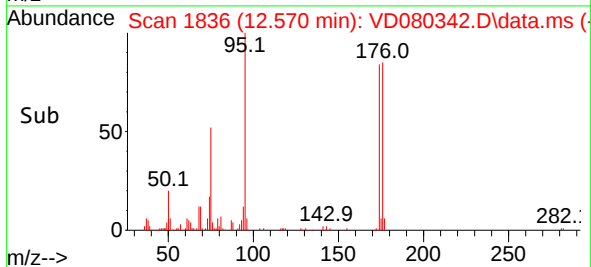
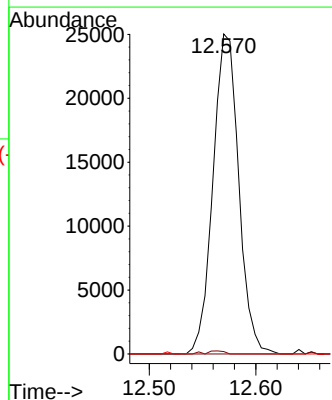
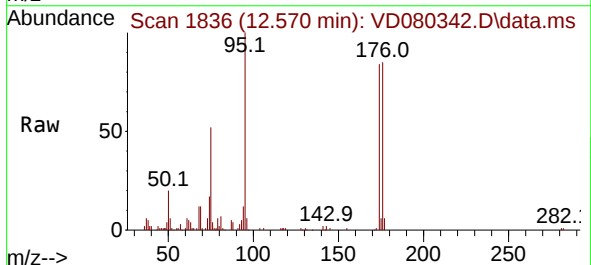
Instrument :
MSVOA_D
ClientSampleId :
72-11991

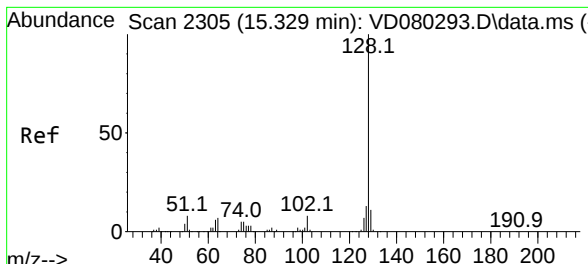
Tgt Ion: 75 Resp: 41979
Ion Ratio Lower Upper
75 100
77 1.7 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 92.276 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. 0.101 min
Lab File: VD080342.D
Acq: 15 May 2025 12:26

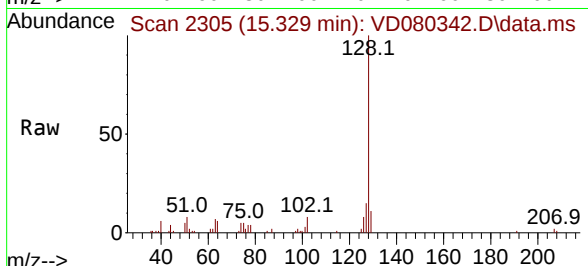
Tgt Ion: 75 Resp: 41979
Ion Ratio Lower Upper
75 100
53 0.7 68.7 103.1#
89 0.0 36.1 54.1#





#95
Naphthalene
Concen: 9.313 ug/l
RT: 15.329 min Scan# 21
Delta R.T. 0.001 min
Lab File: VD080342.D
Acq: 15 May 2025 12:26

Instrument :
MSVOA_D
ClientSampleId :
72-11991



Tgt Ion:	128	Resp:	29995
Ion Ratio	Lower	Upper	
128	100		
127	15.4	11.8	17.8
129	10.7	8.3	12.5

