

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051525\
 Data File : VD080356.D
 Acq On : 15 May 2025 18:36
 Operator : RP/MD
 Sample : Q2014-05
 Misc : 3.61G/10ml/MSVOA_D/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0148

Quant Time: May 16 03:02:14 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)

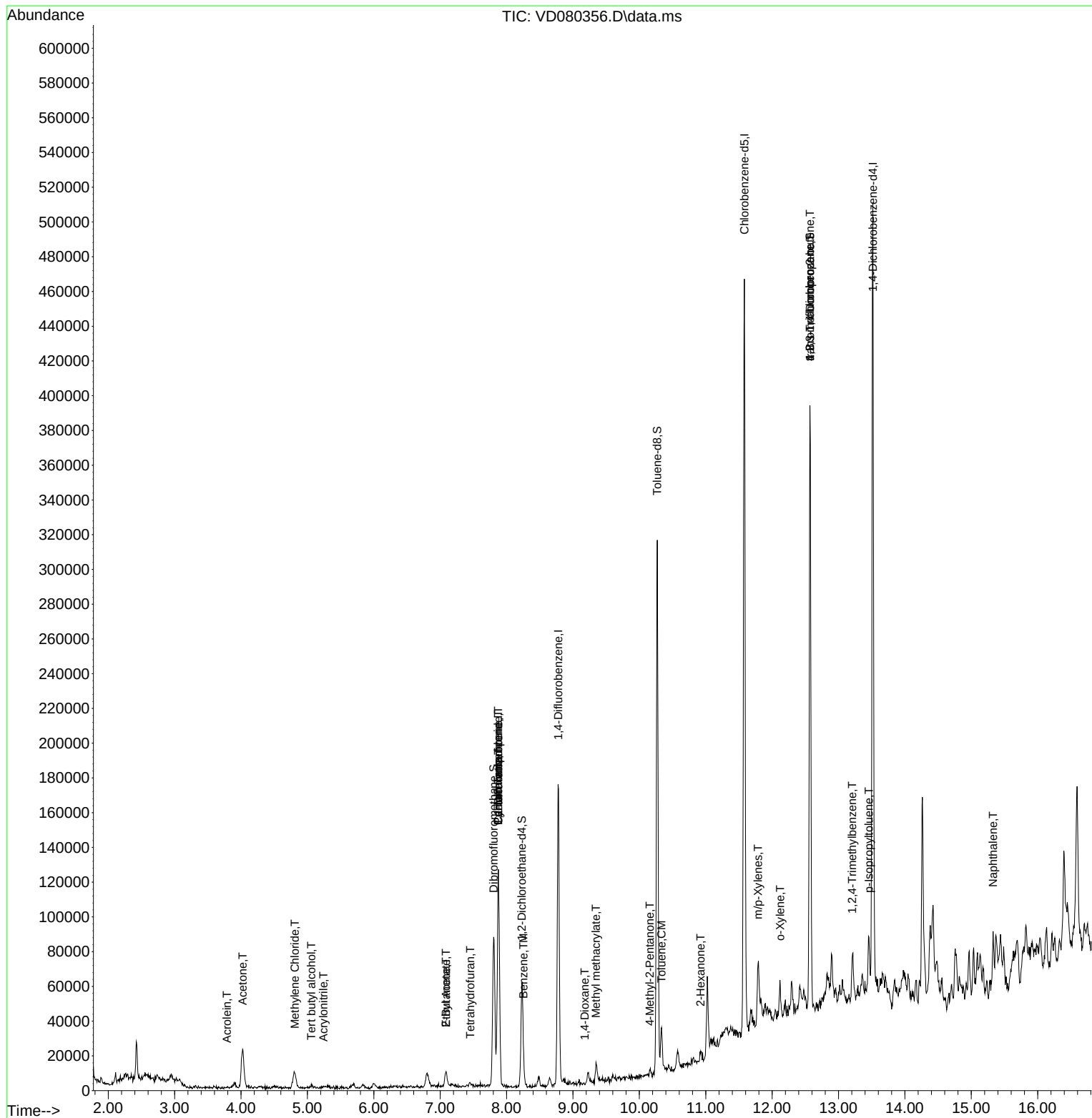
Internal Standards						
1) Pentafluorobenzene	7.876	168	92518	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.776	114	146319	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	248368	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.517	152	121775	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.229	65	45963	38.417	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	76.840%		
35) Dibromofluoromethane	7.805	113	62988	64.229	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	128.460%		
50) Toluene-d8	10.270	98	203708	52.719	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	105.440%		
62) 4-Bromofluorobenzene	12.570	95	113887	91.828	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	183.660%#		
Target Compounds						
2) Dichlorodifluoromethane	1.805	85	59	Below Cal	#	43
3) Chloromethane	2.158	50	507	Below Cal		93
11) Tert butyl alcohol	5.058	59	729	10.041	ug/l #	87
13) Acrolein	3.788	56	340	2.662	ug/l #	56
15) Acrylonitrile	5.241	53	412	1.505	ug/l #	74
16) Acetone	4.023	43	39729	214.849	ug/l	91
20) Methylene Chloride	4.811	84	6753	1.579	ug/l #	83
25) 2-Butanone	7.088	43	12799	38.881	ug/l	98
29) Tetrahydrofuran	7.452	42	1079	5.027	ug/l #	72
31) Cyclohexane	7.876	56	2706	1.392	ug/l #	12
36) 1,1-Dichloropropene	7.876	75	8393	5.726	ug/l #	46
37) Ethyl Acetate	7.088	43	12799	16.700	ug/l #	68
38) Carbon Tetrachloride	7.876	117	9951	6.510	ug/l #	23
40) Benzene	8.252	78	5493	1.196	ug/l	97
48) Methyl methacrylate	9.346	41	3537	5.356	ug/l #	35
49) 1,4-Dioxane	9.176	88	54	7.083	ug/l #	21
51) 4-Methyl-2-Pentanone	10.158	43	2634	3.678	ug/l	89
52) Toluene	10.334	92	8846	3.197	ug/l	81
59) 2-Hexanone	10.923	43	3997	8.114	ug/l	83
68) m/p-Xylenes	11.787	106	11199	3.078	ug/l	95
69) o-Xylene	12.123	106	5336	1.605	ug/l	79
76) 1,2,3-Trichloropropane	12.570	75	58684	49.932	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.570	75	58684	94.778	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.205	105	14675	2.129	ug/l	88
86) p-Isopropyltoluene	13.458	119	18090	2.483	ug/l	96
95) Naphthalene	15.328	128	24975	5.698	ug/l	99

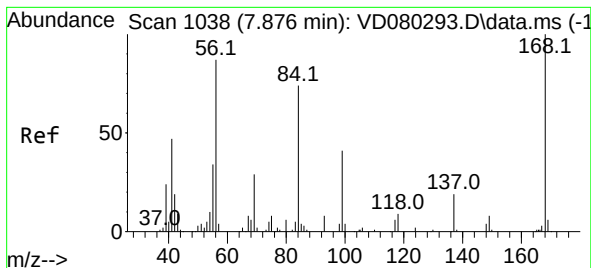
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.876 min Scan# 10

Delta R.T. 0.001 min

Lab File: VD080356.D

Acq: 15 May 2025 18:36

Instrument :

MSVOA_D

ClientSampleId :

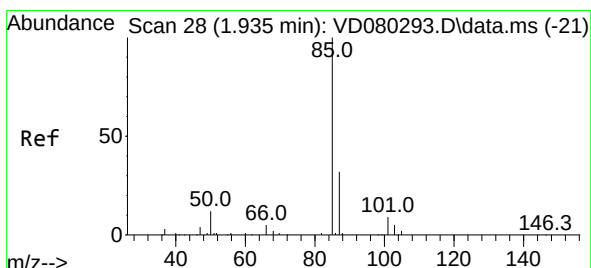
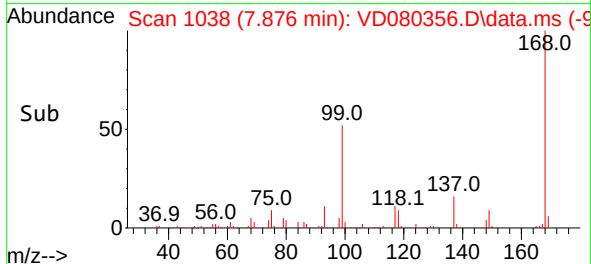
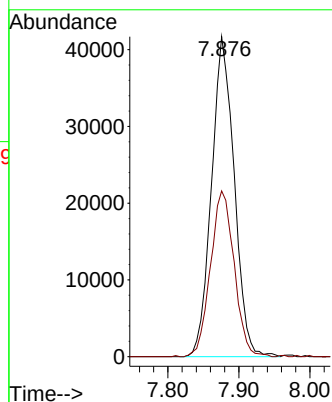
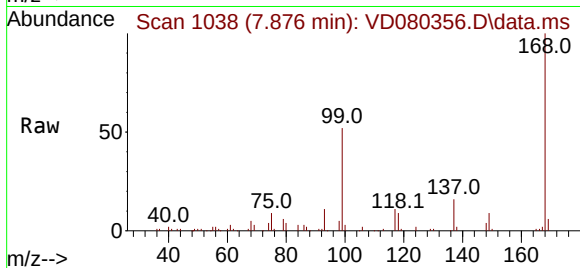
MOO-25-0148

Tgt Ion:168 Resp: 92518

Ion Ratio Lower Upper

168 100

99 51.8 46.0 69.0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.805 min Scan# 6

Delta R.T. -0.129 min

Lab File: VD080356.D

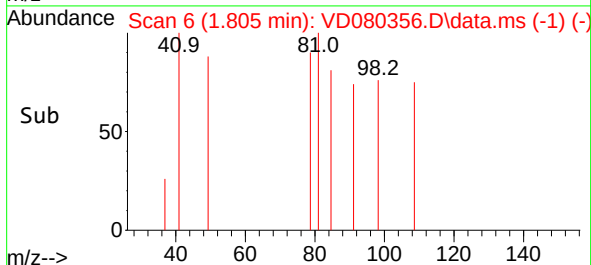
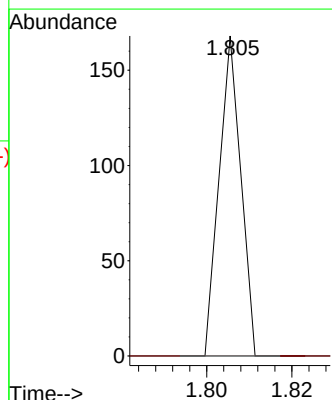
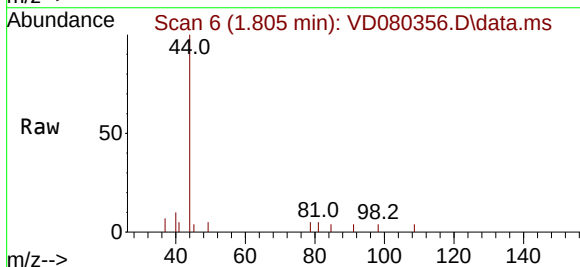
Acq: 15 May 2025 18:36

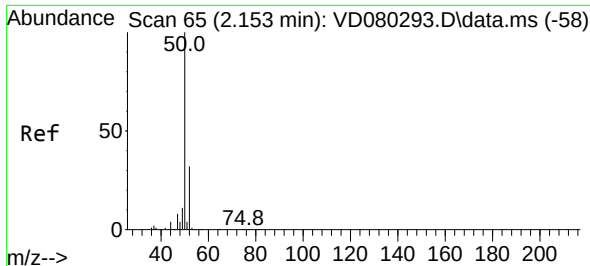
Tgt Ion: 85 Resp: 59

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.2#

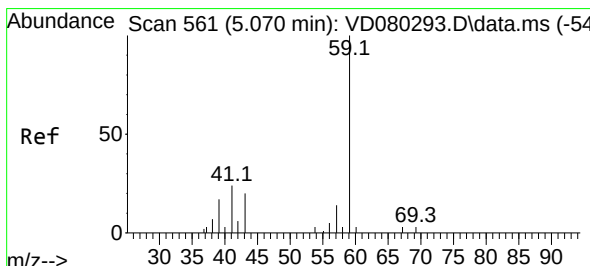
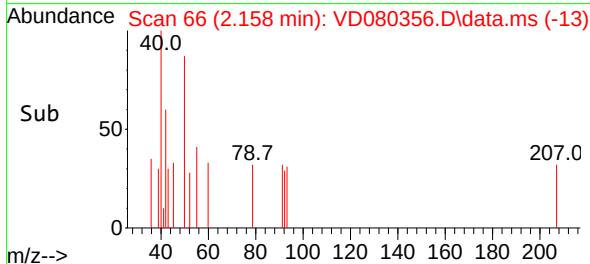
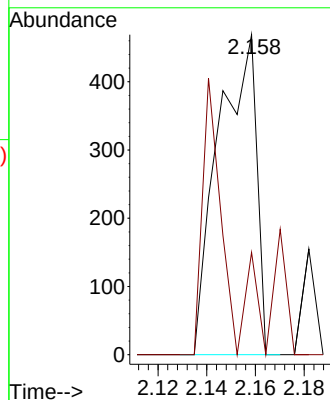
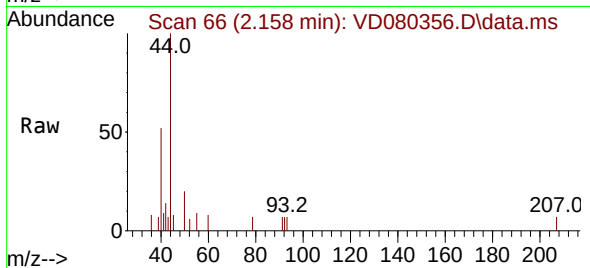




#3
Chloromethane
Concen: Below Cal
RT: 2.158 min Scan# 60
Delta R.T. 0.012 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

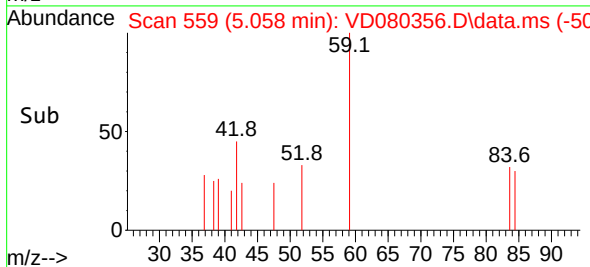
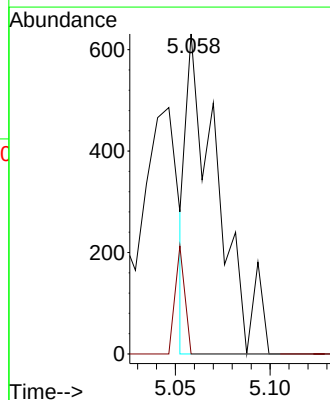
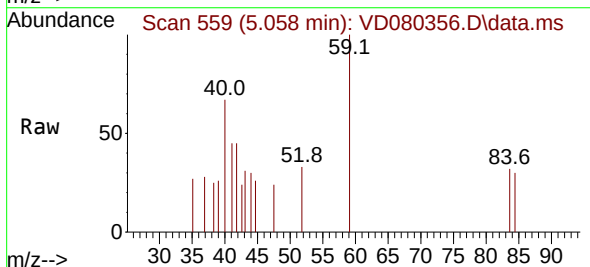
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0148

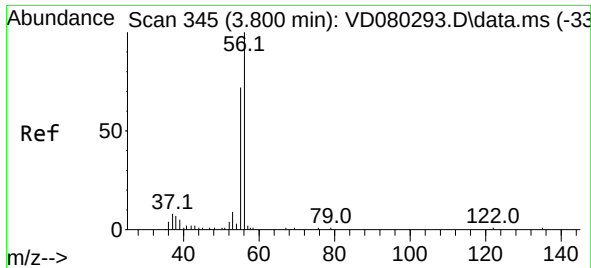
Tgt Ion: 50 Resp: 507
Ion Ratio Lower Upper
50 100
52 32.0 28.8 43.2



#11
Tert butyl alcohol
Concen: 10.041 ug/l
RT: 5.058 min Scan# 559
Delta R.T. 0.000 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Tgt Ion: 59 Resp: 729
Ion Ratio Lower Upper
59 100
57 10.3 4.8 7.2#





#13

Acrolein

Concen: 2.662 ug/l

RT: 3.788 min Scan# 345

Delta R.T. -0.005 min

Lab File: VD080356.D

Acq: 15 May 2025 18:36

Instrument :

MSVOA_D

ClientSampleId :

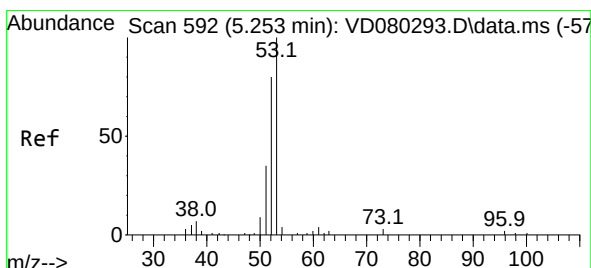
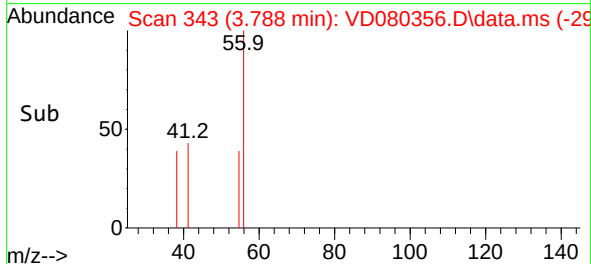
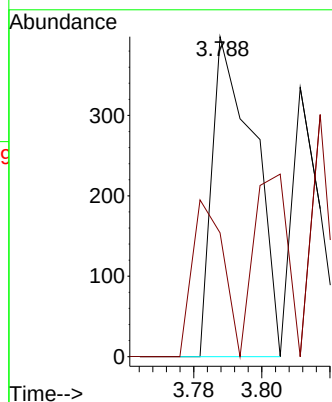
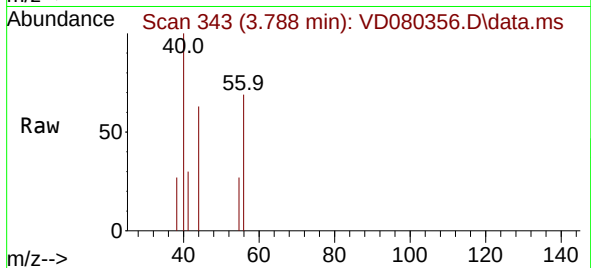
MOO-25-0148

Tgt Ion: 56 Resp: 340

Ion Ratio Lower Upper

56 100

55 36.2 58.2 87.2#



#15

Acrylonitrile

Concen: 1.505 ug/l

RT: 5.241 min Scan# 590

Delta R.T. -0.011 min

Lab File: VD080356.D

Acq: 15 May 2025 18:36

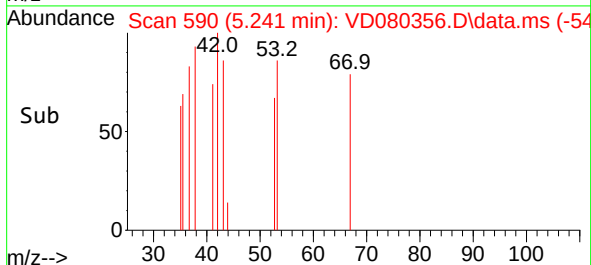
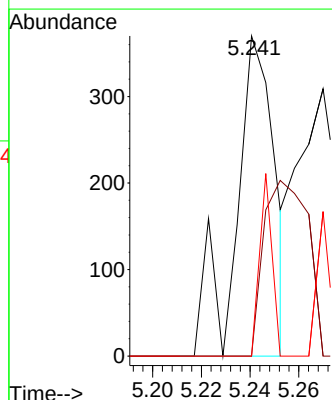
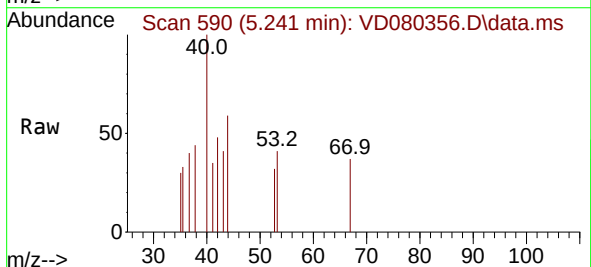
Tgt Ion: 53 Resp: 412

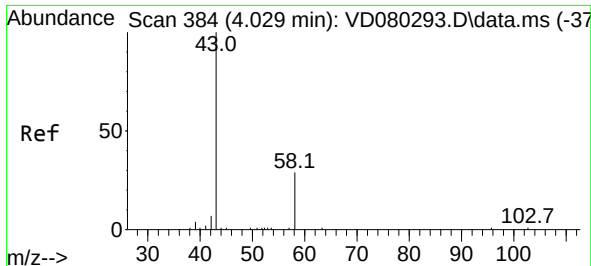
Ion Ratio Lower Upper

53 100

52 61.9 66.2 99.4#

51 18.0 30.3 45.5#

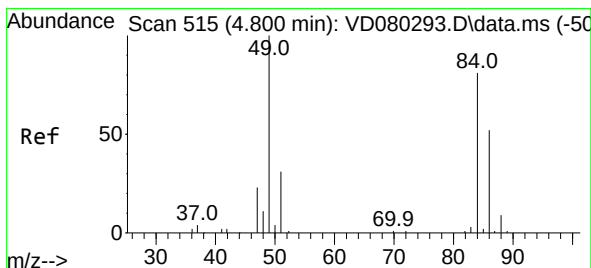
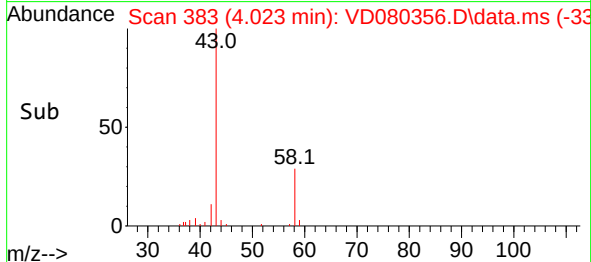
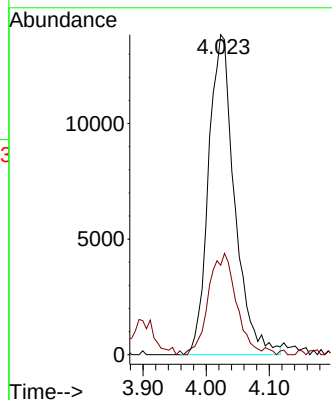
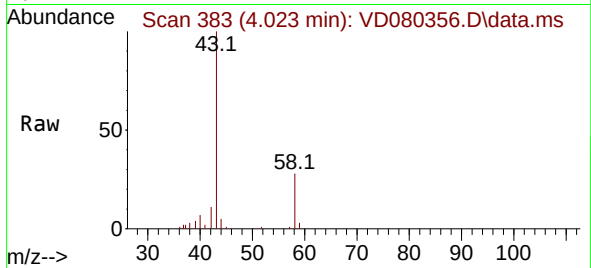




#16
Acetone
Concen: 214.849 ug/l
RT: 4.023 min Scan# 384
Delta R.T. 0.000 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

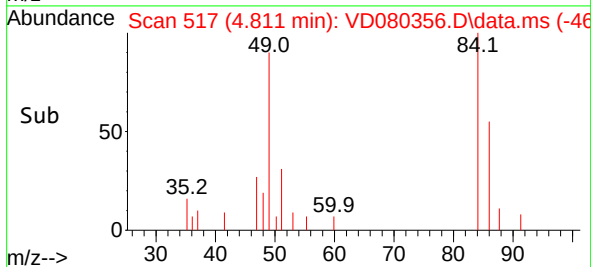
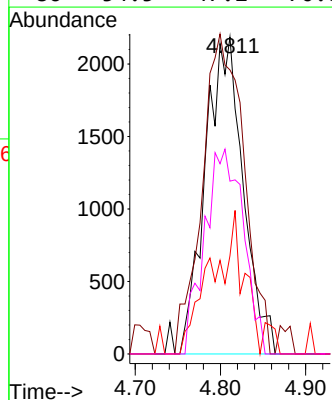
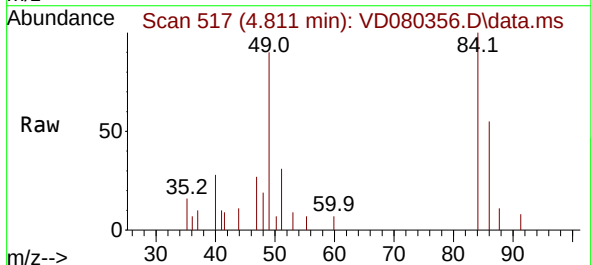
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0148

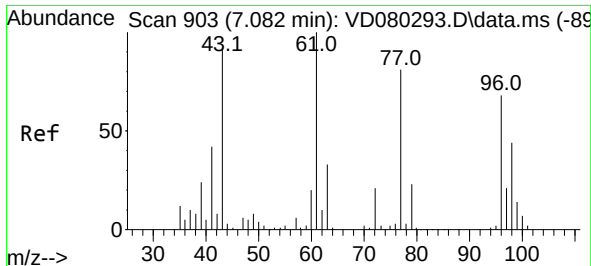
Tgt Ion: 43 Resp: 39729
Ion Ratio Lower Upper
43 100
58 26.8 25.4 38.2



#20
Methylene Chloride
Concen: 1.579 ug/l
RT: 4.811 min Scan# 517
Delta R.T. 0.006 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Tgt Ion: 84 Resp: 6753
Ion Ratio Lower Upper
84 100
49 80.6 86.5 129.7#
51 31.0 26.9 40.3
86 54.5 47.2 70.8

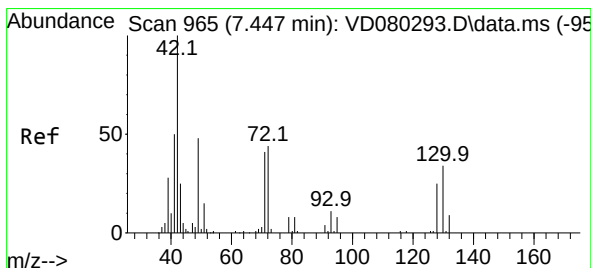
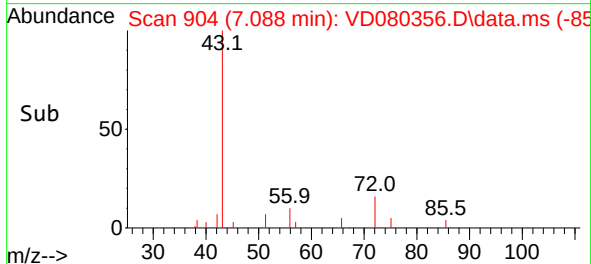
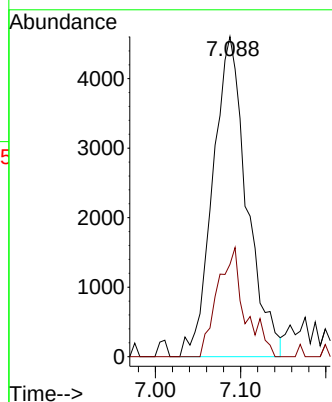
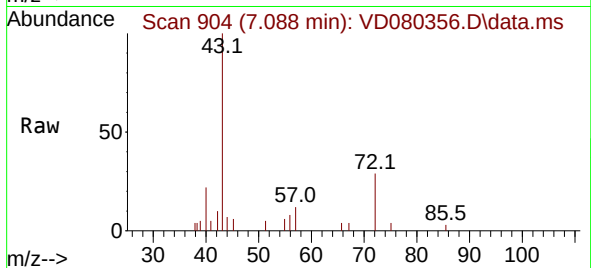




#25
2-Butanone
Concen: 38.881 ug/l
RT: 7.088 min Scan# 904
Delta R.T. 0.001 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

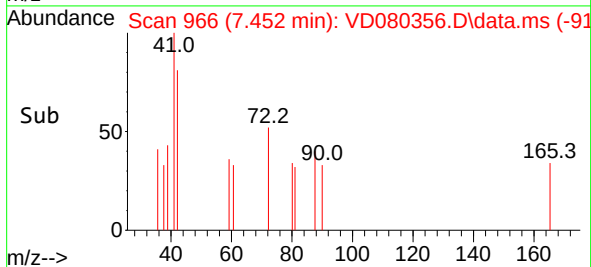
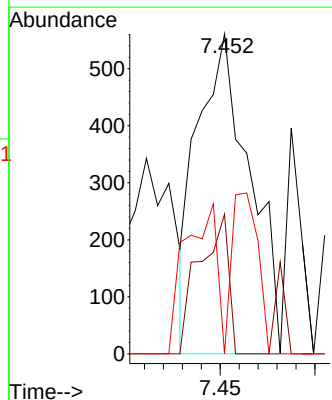
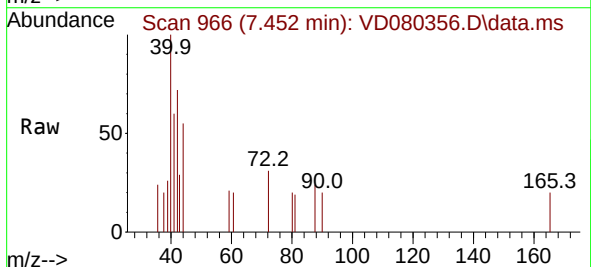
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MSVOA_D
ClientSampleId :
MOO-25-0148

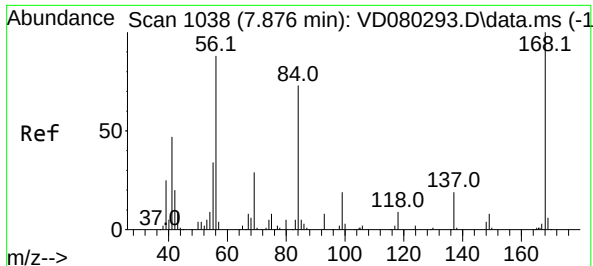
Tgt Ion: 43 Resp: 12799
Ion Ratio Lower Upper
43 100
72 28.8 22.3 33.5



#29
Tetrahydrofuran
Concen: 5.027 ug/l
RT: 7.452 min Scan# 966
Delta R.T. 0.006 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Tgt Ion: 42 Resp: 1079
Ion Ratio Lower Upper
42 100
72 24.4 36.7 55.1#
71 28.4 34.4 51.6#

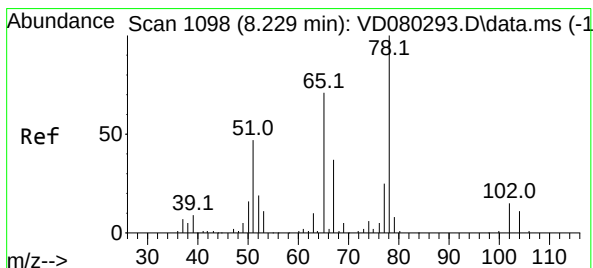
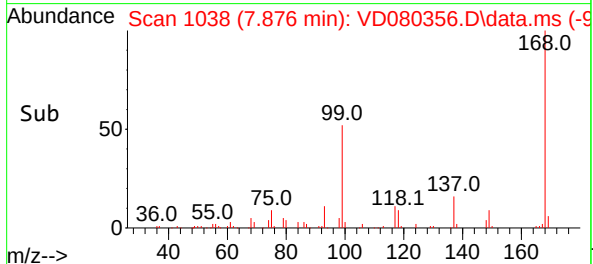
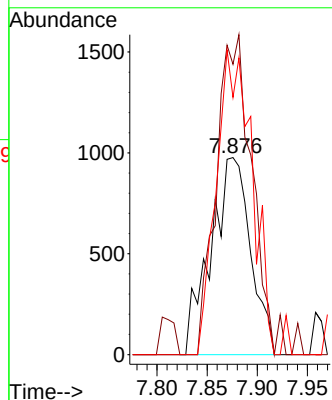
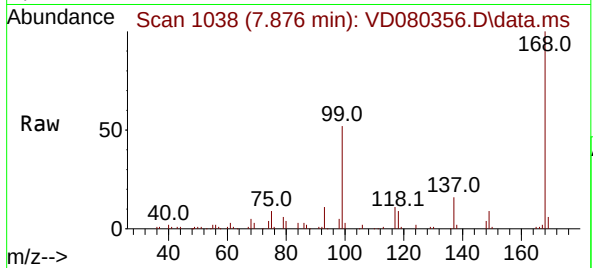




#31
Cyclohexane
Concen: 1.392 ug/l
RT: 7.876 min Scan# 1038
Delta R.T. -0.005 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

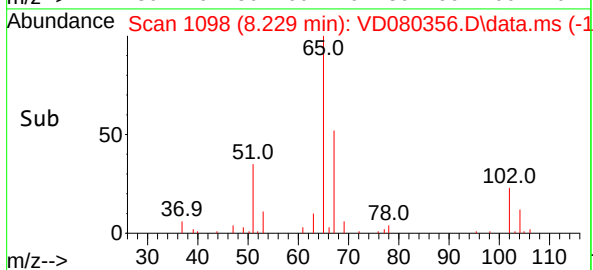
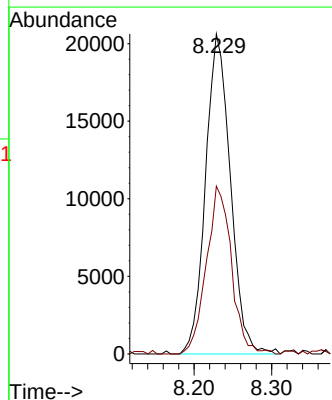
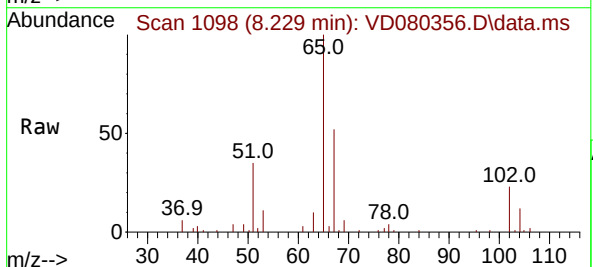
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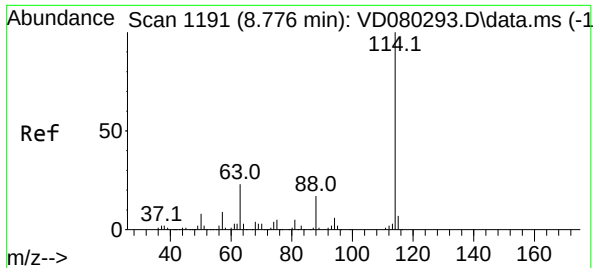
Tgt Ion: 56 Resp: 2706
Ion Ratio Lower Upper
56 100
69 147.3 27.3 40.9#
84 130.5 70.2 105.4#



#33
1,2-Dichloroethane-d4
Concen: 38.417 ug/l
RT: 8.229 min Scan# 1098
Delta R.T. 0.001 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Tgt Ion: 65 Resp: 45963
Ion Ratio Lower Upper
65 100
67 52.9 0.0 109.2

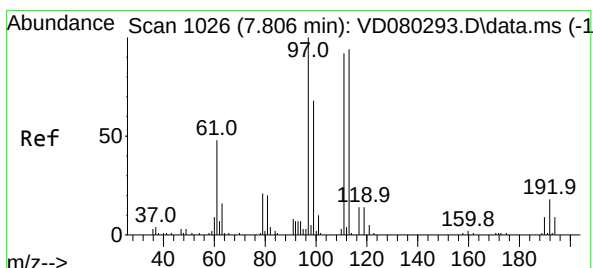
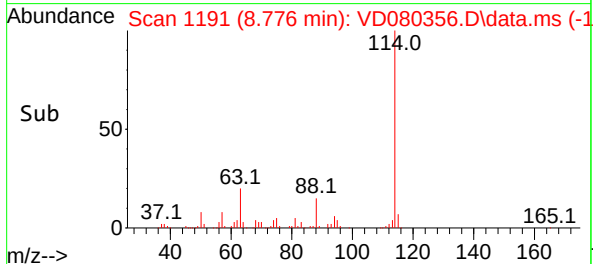
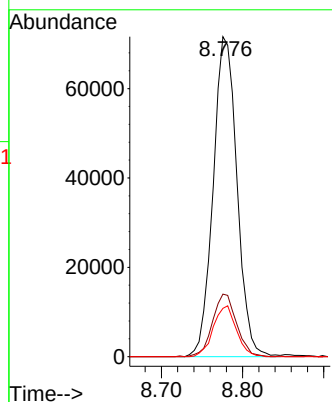
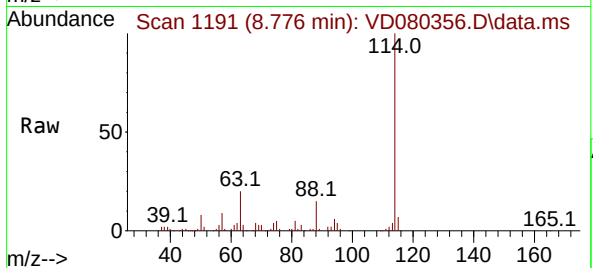




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.776 min Scan# 1191
Delta R.T. 0.001 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

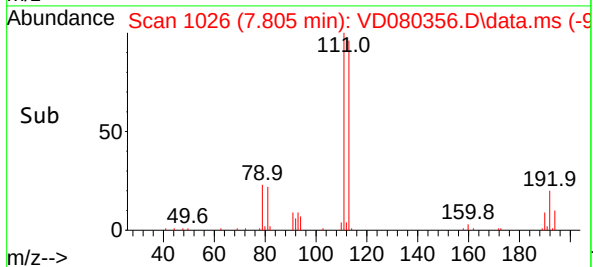
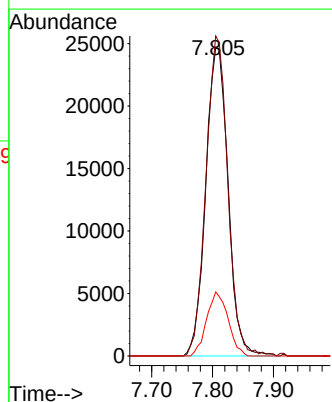
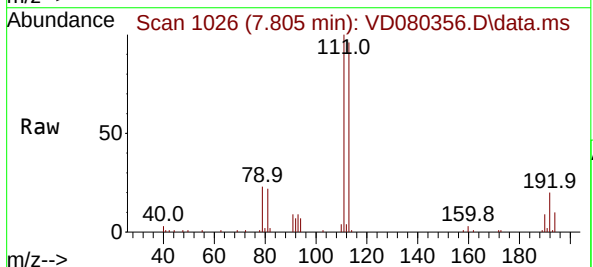
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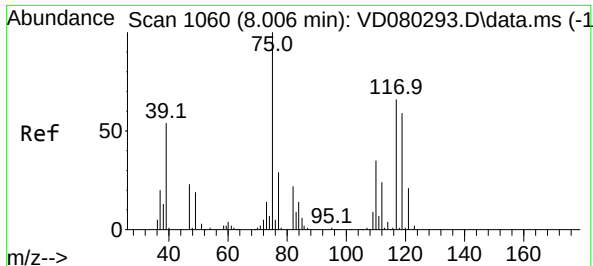
Tgt Ion:	114	Resp:	146319
Ion Ratio	Lower	Upper	
114	100		
63	19.3	0.0	38.8
88	15.1	0.0	30.6



#35
Dibromofluoromethane
Concen: 64.229 ug/l
RT: 7.805 min Scan# 1026
Delta R.T. 0.000 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Tgt Ion:	113	Resp:	62988
Ion Ratio	Lower	Upper	
113	100		
111	101.2	82.5	123.7
192	19.8	16.6	25.0

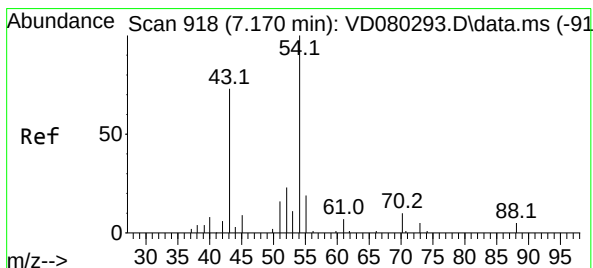
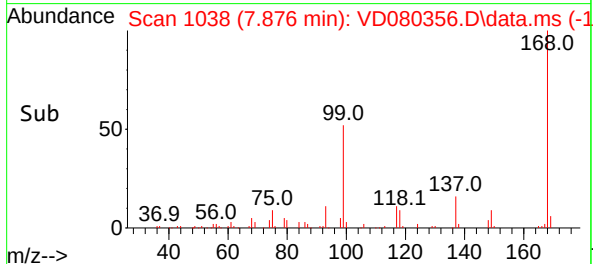
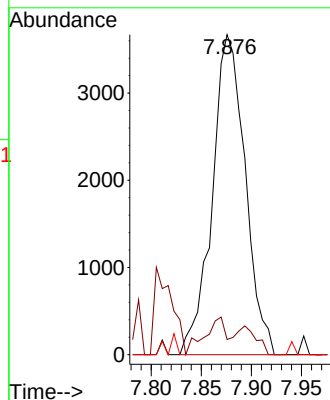
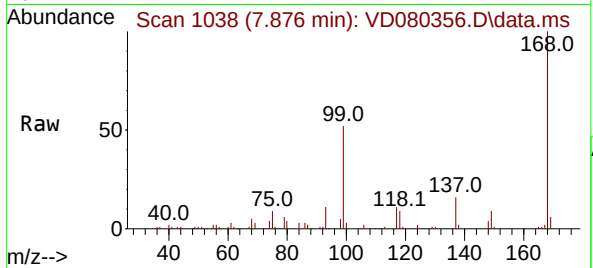




#36
 1,1-Dichloropropene
 Concen: 5.726 ug/l
 RT: 7.876 min Scan# 1060
 Delta R.T. -0.129 min
 Lab File: VD080356.D
 Acq: 15 May 2025 18:36

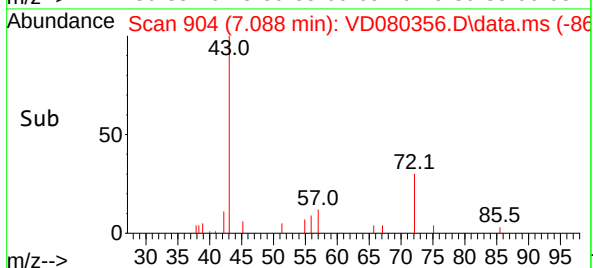
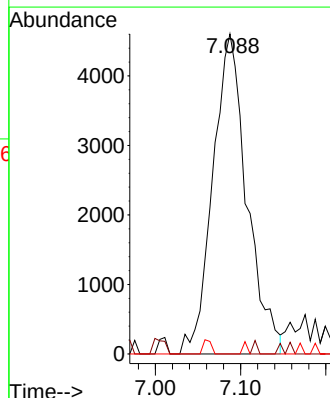
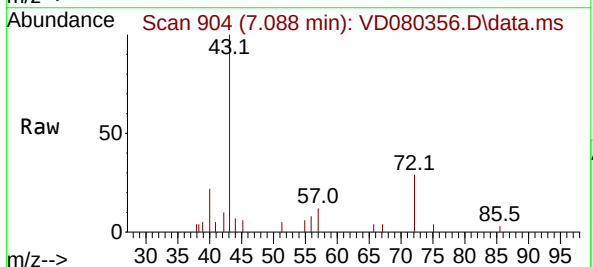
Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0148

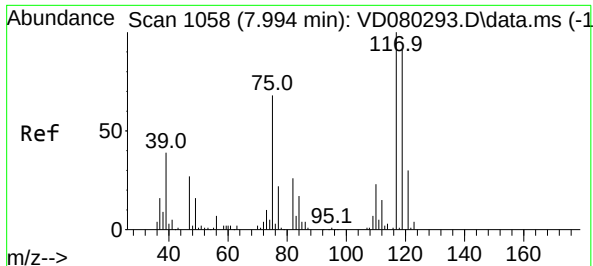
Tgt Ion: 75 Resp: 8393
 Ion Ratio Lower Upper
 75 100
 110 6.8 18.4 55.0#
 77 0.0 25.6 38.4#



#37
 Ethyl Acetate
 Concen: 16.700 ug/l
 RT: 7.088 min Scan# 904
 Delta R.T. -0.081 min
 Lab File: VD080356.D
 Acq: 15 May 2025 18:36

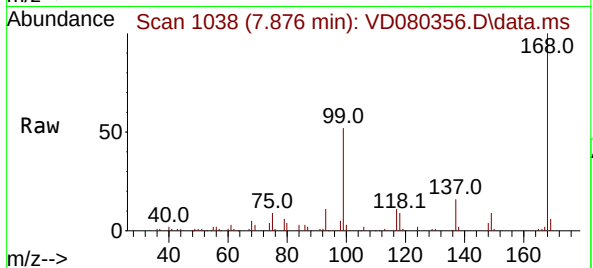
Tgt Ion: 43 Resp: 12799
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.0 16.4#
 70 0.0 9.4 14.2#



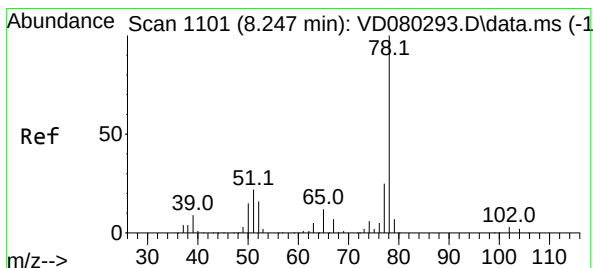
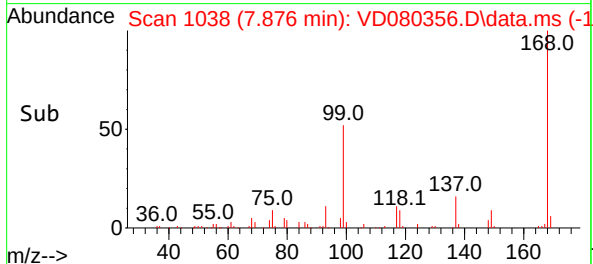
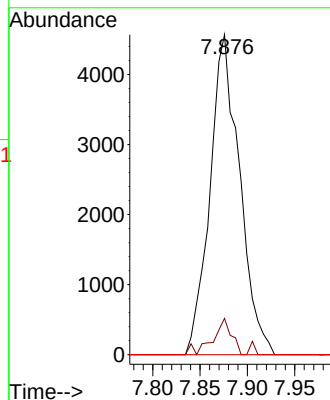


#38
Carbon Tetrachloride
Concen: 6.510 ug/l
RT: 7.876 min Scan# 1102
Delta R.T. -0.111 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0148

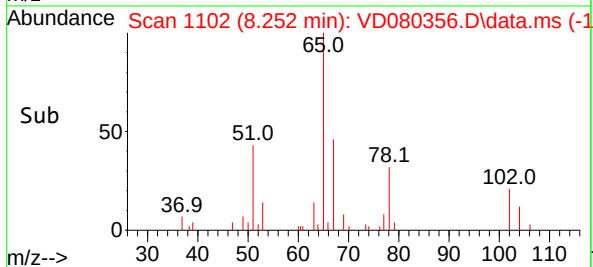
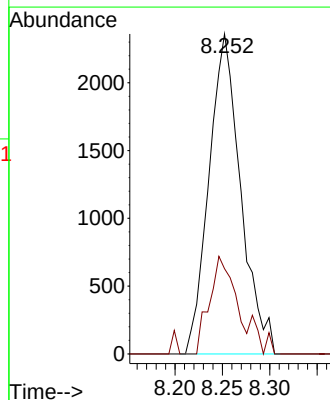
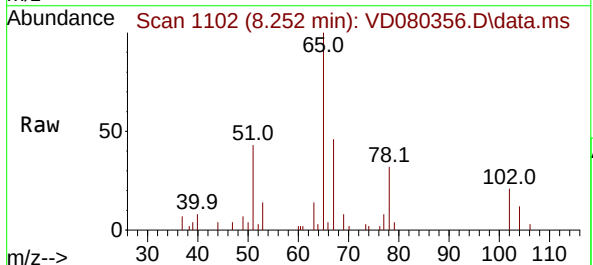


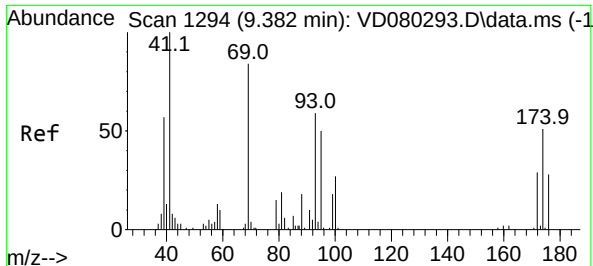
Tgt Ion:117 Resp: 9951
Ion Ratio Lower Upper
117 100
119 11.3 73.4 110.0#
121 0.0 24.5 36.7#



#40
Benzene
Concen: 1.196 ug/l
RT: 8.252 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Tgt Ion: 78 Resp: 5493
Ion Ratio Lower Upper
78 100
77 26.7 20.2 30.4





#48

Methyl methacrylate

Concen: 5.356 ug/l

RT: 9.346 min Scan# 1288

Delta R.T. -0.035 min

Lab File: VD080356.D

Acq: 15 May 2025 18:36

Instrument :

MSVOA_D

ClientSampleId :

MOO-25-0148

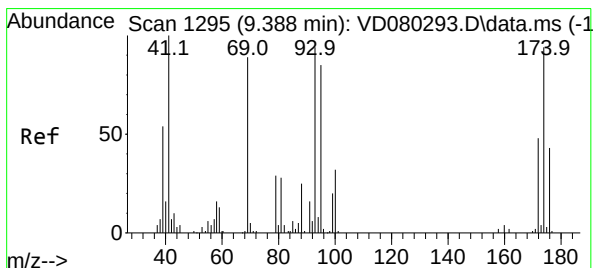
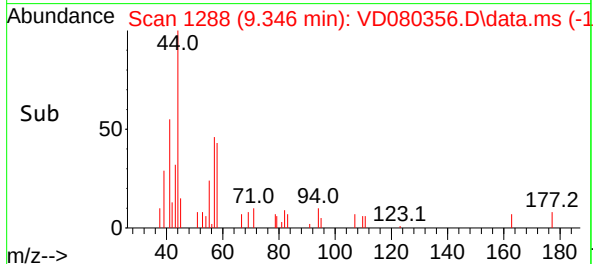
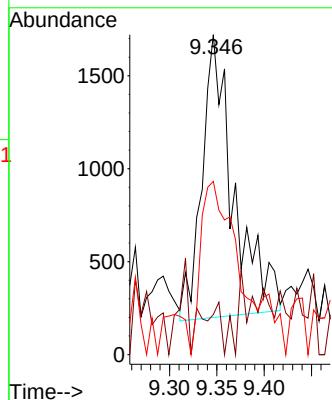
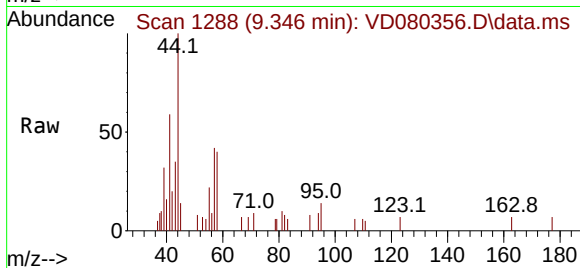
Tgt Ion: 41 Resp: 3537

Ion Ratio Lower Upper

41 100

69 6.8 74.0 111.0#

39 68.4 41.9 62.9#



#49

1,4-Dioxane

Concen: 7.083 ug/l

RT: 9.176 min Scan# 1259

Delta R.T. -0.211 min

Lab File: VD080356.D

Acq: 15 May 2025 18:36

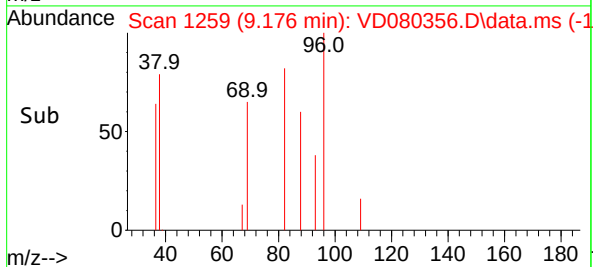
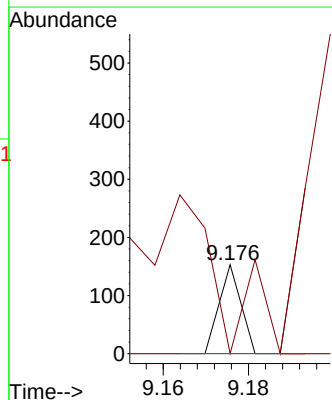
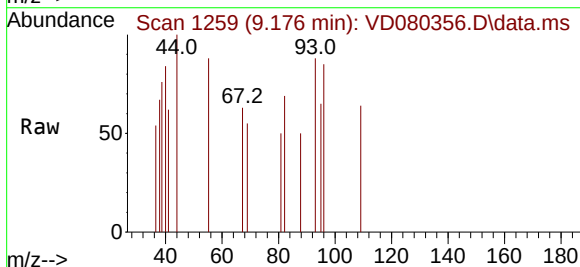
Tgt Ion: 88 Resp: 54

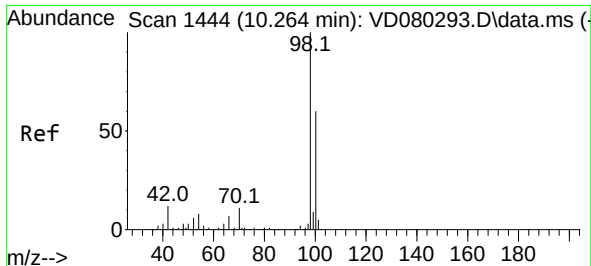
Ion Ratio Lower Upper

88 100

43 0.0 29.1 43.7#

58 0.0 59.9 89.9#

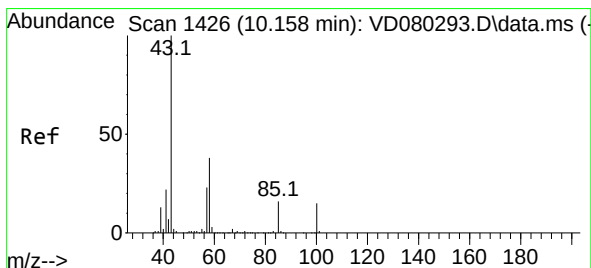
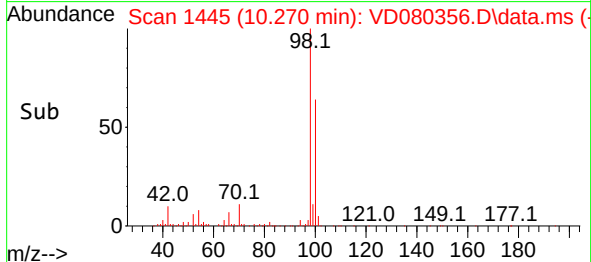
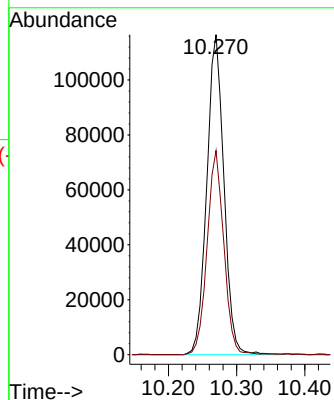
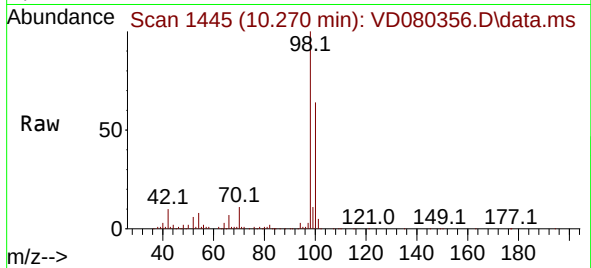




#50
Toluene-d8
Concen: 52.719 ug/l
RT: 10.270 min Scan# 1445
Delta R.T. 0.001 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

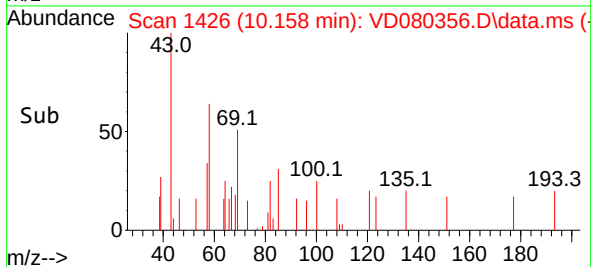
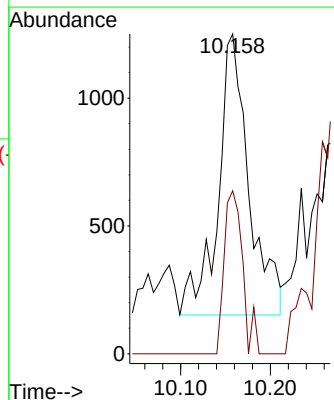
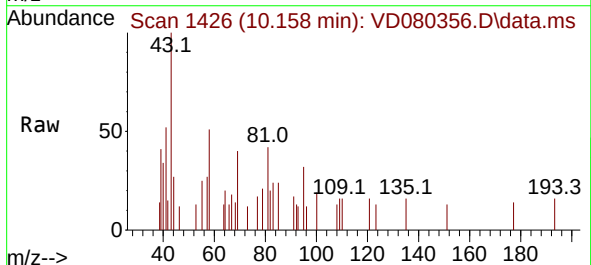
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0148

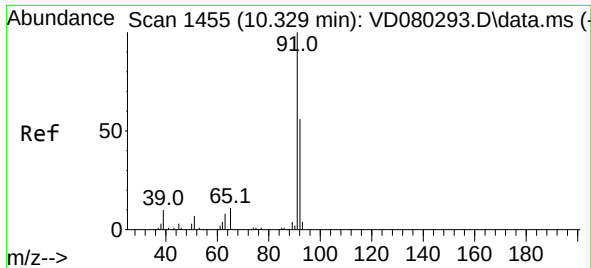
Tgt Ion: 98 Resp: 203708
Ion Ratio Lower Upper
98 100
100 62.1 50.2 75.4



#51
4-Methyl-2-Pentanone
Concen: 3.678 ug/l
RT: 10.158 min Scan# 1426
Delta R.T. 0.001 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Tgt Ion: 43 Resp: 2634
Ion Ratio Lower Upper
43 100
58 34.4 32.8 49.2

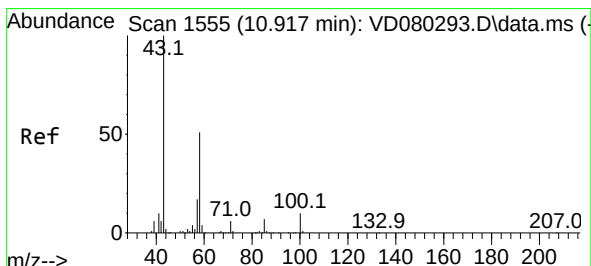
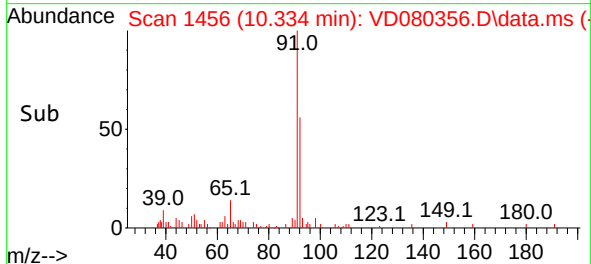
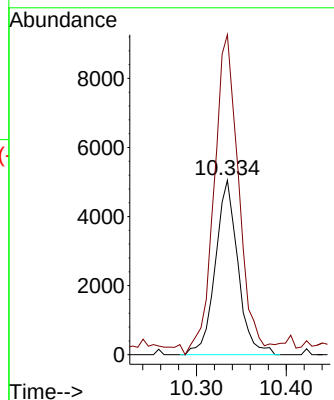
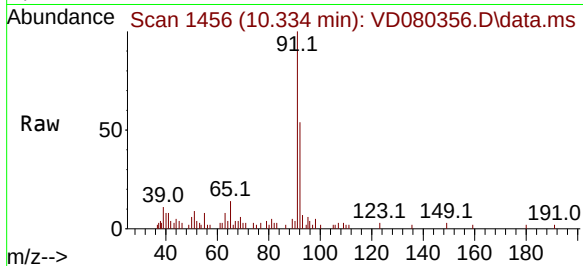




#52
Toluene
Concen: 3.197 ug/l
RT: 10.334 min Scan# 1455
Delta R.T. 0.000 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

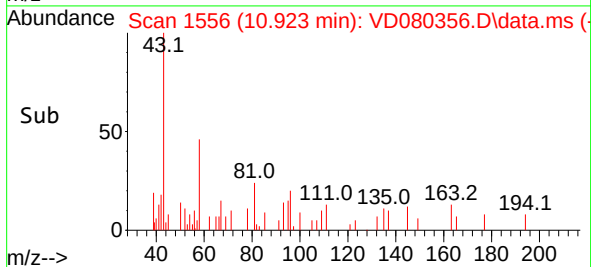
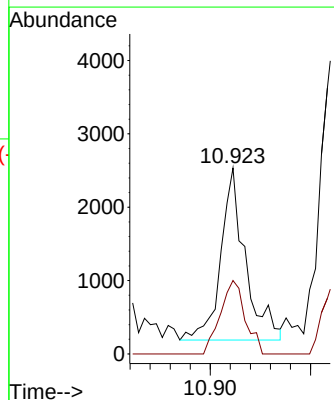
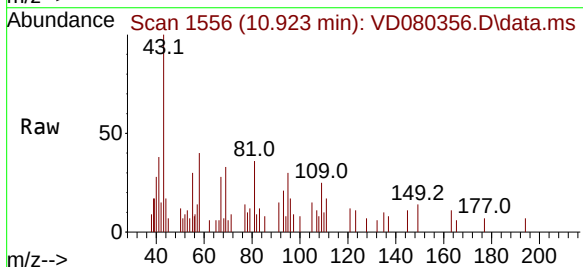
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0148

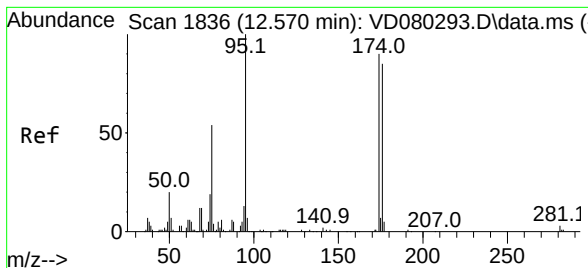
Tgt Ion: 92 Resp: 8846
Ion Ratio Lower Upper
92 100
91 201.1 139.3 208.9



#59
2-Hexanone
Concen: 8.114 ug/l
RT: 10.923 min Scan# 1556
Delta R.T. 0.007 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Tgt Ion: 43 Resp: 3997
Ion Ratio Lower Upper
43 100
58 43.1 27.8 83.4

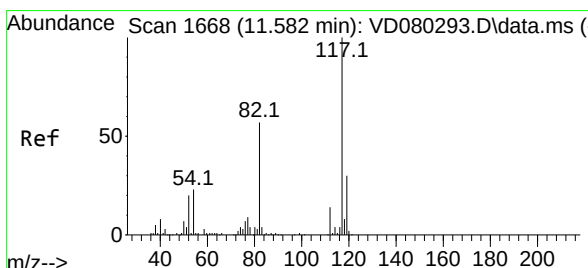
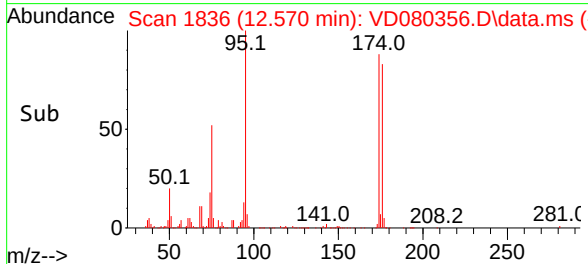
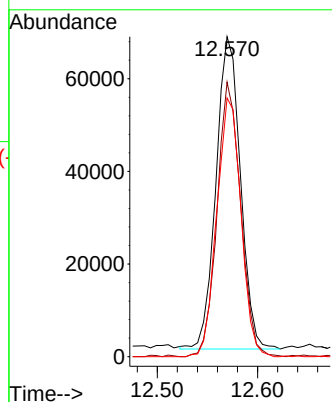
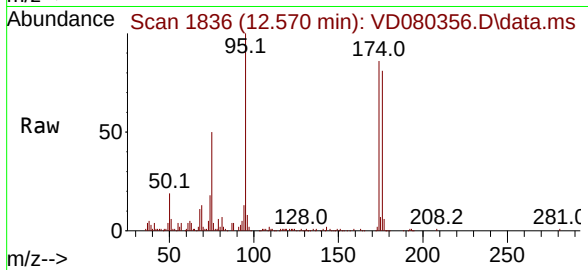




#62
4-Bromofluorobenzene
Concen: 91.828 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. 0.001 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

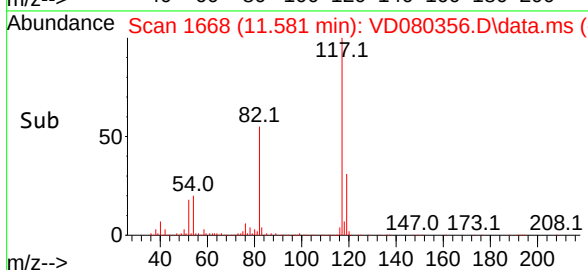
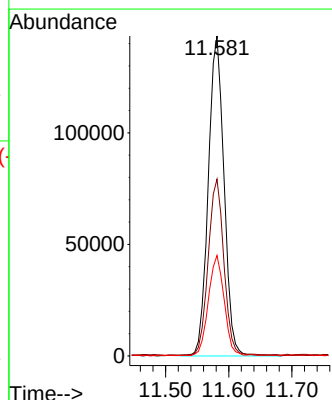
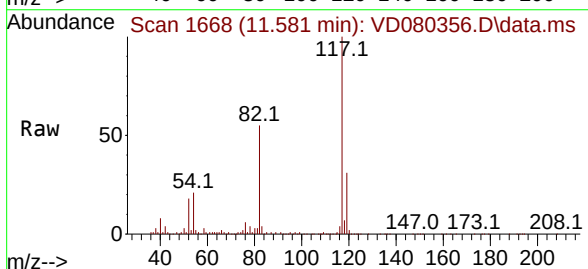
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0148

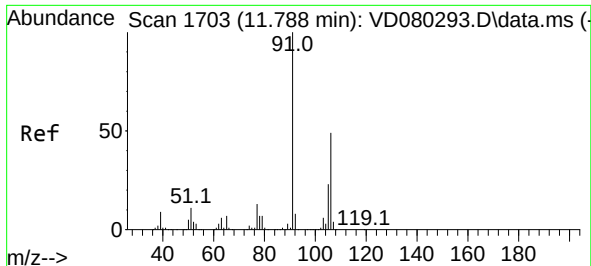
Tgt Ion: 95 Resp: 113887
Ion Ratio Lower Upper
95 100
174 84.7 0.0 173.4
176 81.8 0.0 166.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1668
Delta R.T. 0.000 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Tgt Ion: 117 Resp: 248368
Ion Ratio Lower Upper
117 100
82 55.0 45.8 68.6
119 31.2 26.2 39.2

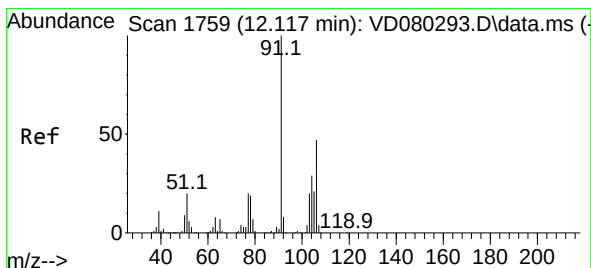
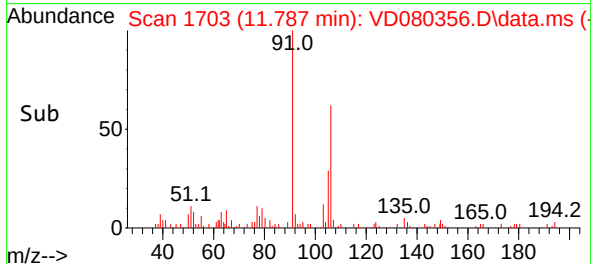
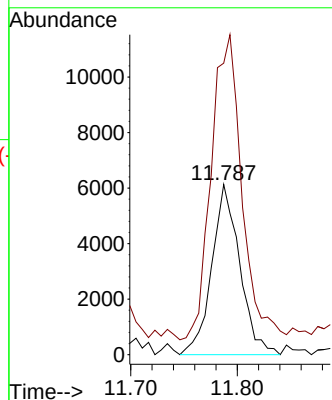
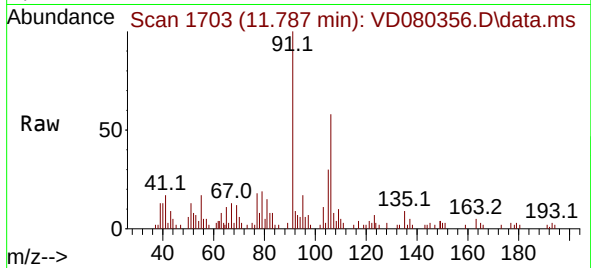




#68
m/p-Xylenes
Concen: 3.078 ug/l
RT: 11.787 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

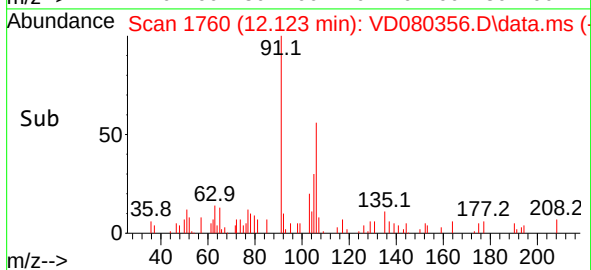
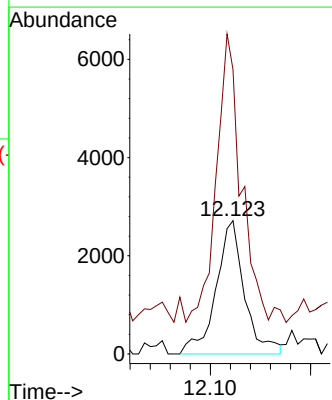
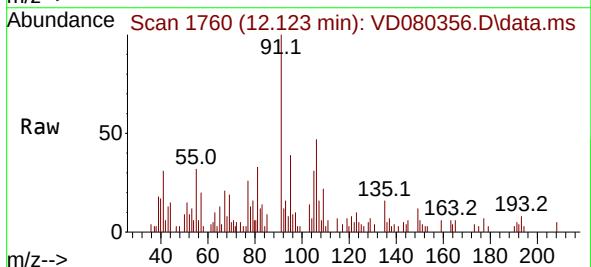
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0148

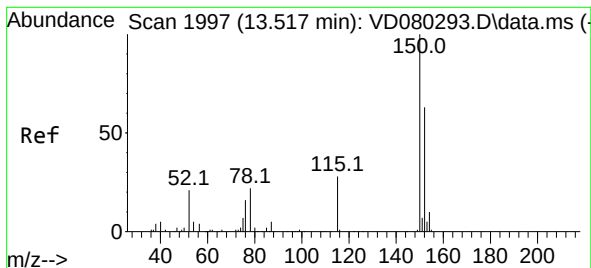
Tgt Ion:106 Resp: 11199
Ion Ratio Lower Upper
106 100
91 195.7 162.6 244.0



#69
o-Xylene
Concen: 1.605 ug/l
RT: 12.123 min Scan# 1760
Delta R.T. 0.007 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Tgt Ion:106 Resp: 5336
Ion Ratio Lower Upper
106 100
91 186.4 110.5 331.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.517 min Scan# 1997

Delta R.T. 0.001 min

Lab File: VD080356.D

Acq: 15 May 2025 18:36

Instrument :

MSVOA_D

ClientSampleId :

MOO-25-0148

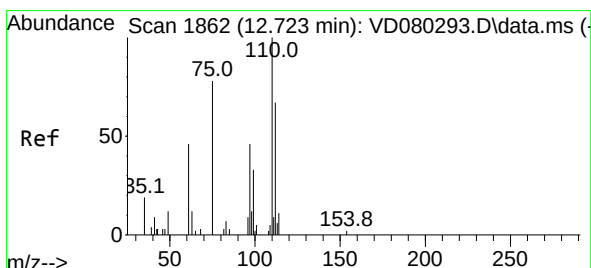
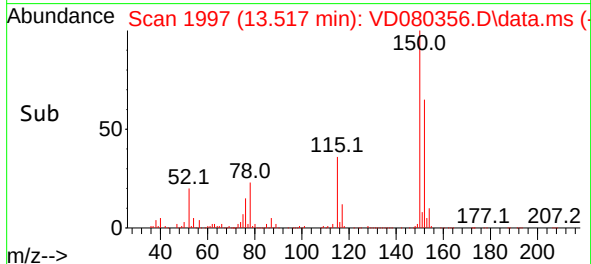
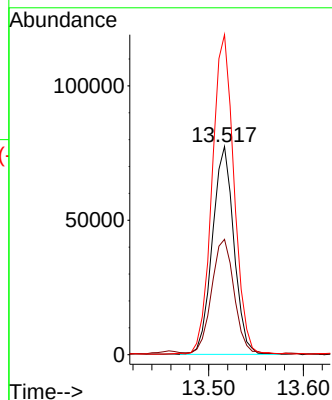
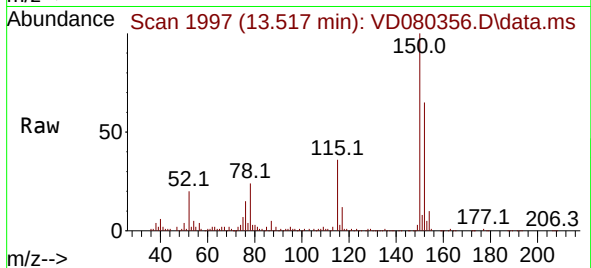
Tgt Ion:152 Resp: 121775

Ion Ratio Lower Upper

152 100

115 57.7 28.9 86.8

150 156.6 0.0 354.8



#76

1,2,3-Trichloropropane

Concen: 49.932 ug/l

RT: 12.570 min Scan# 1836

Delta R.T. -0.152 min

Lab File: VD080356.D

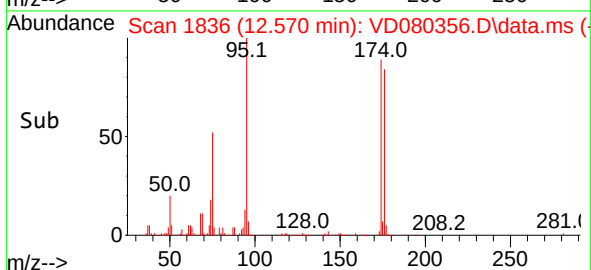
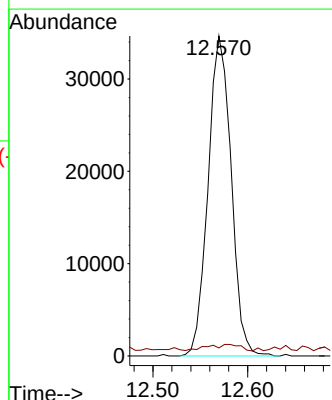
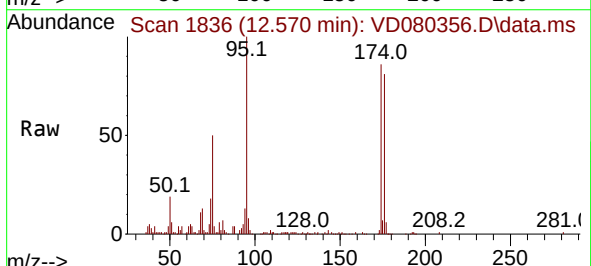
Acq: 15 May 2025 18:36

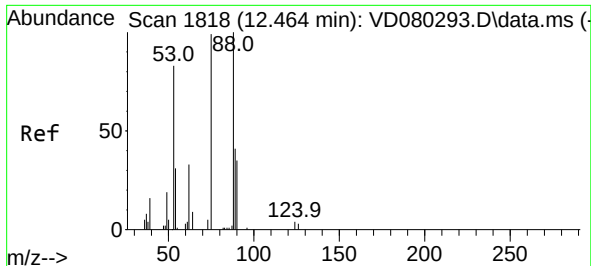
Tgt Ion: 75 Resp: 58684

Ion Ratio Lower Upper

75 100

77 2.9 0.0 0.0#

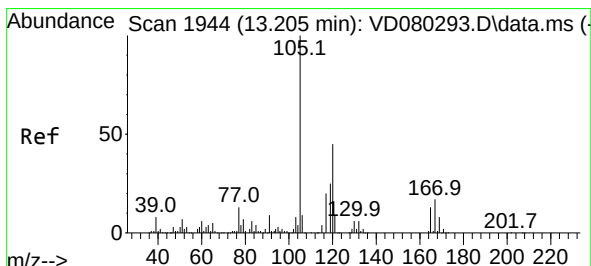
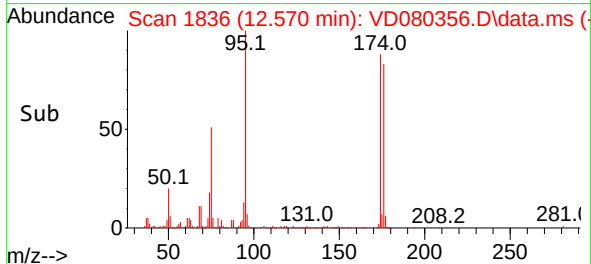
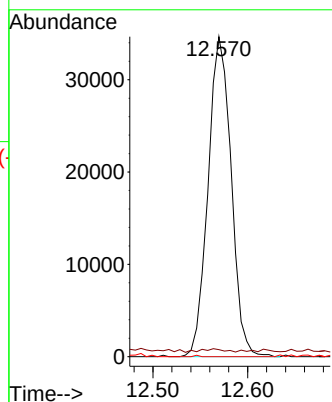
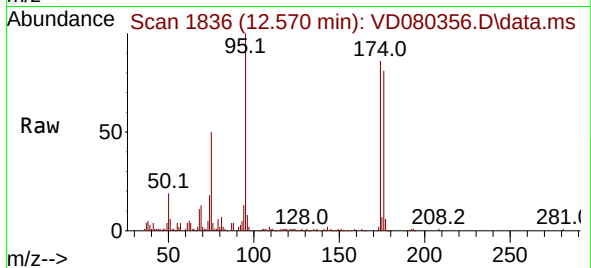




#81
trans-1,4-Dichloro-2-butene
Concen: 94.778 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. 0.101 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

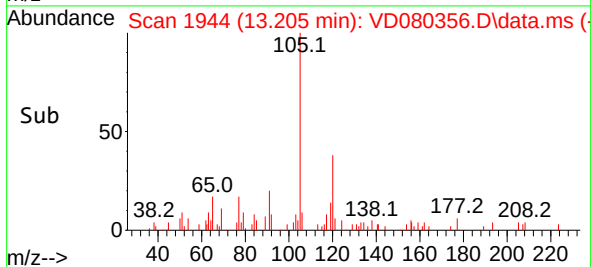
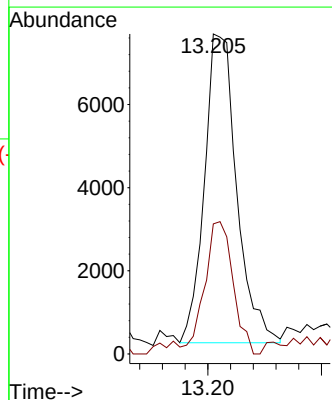
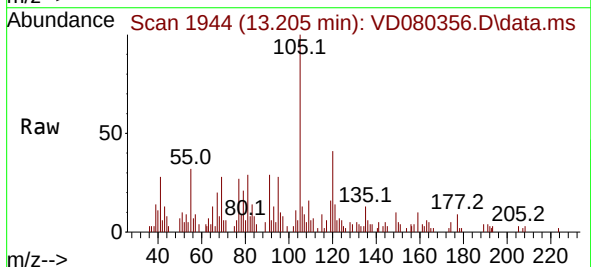
Instrument : MSVOA_D
ClientSampleId : MOO-25-0148

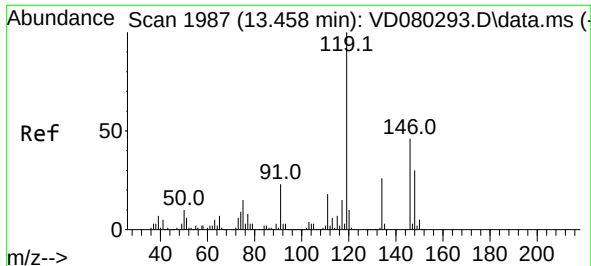
Tgt Ion: 75 Resp: 58684
Ion Ratio Lower Upper
75 100
53 1.1 68.7 103.1#
89 0.0 36.1 54.1#



#84
1,2,4-Trimethylbenzene
Concen: 2.129 ug/l
RT: 13.205 min Scan# 1944
Delta R.T. -0.005 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Tgt Ion: 105 Resp: 14675
Ion Ratio Lower Upper
105 100
120 37.6 22.8 68.4

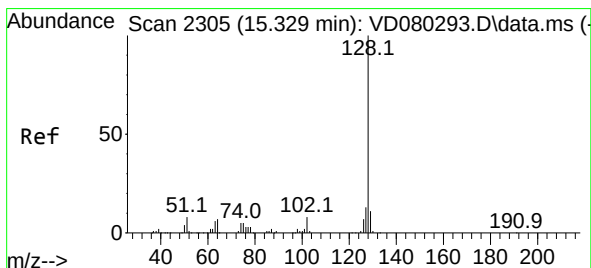
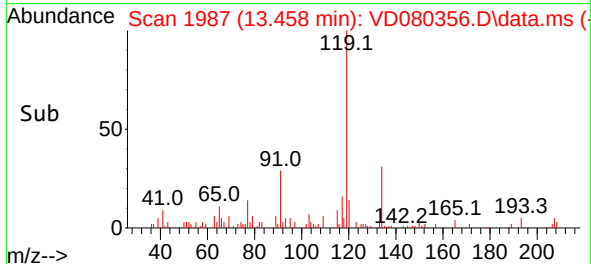
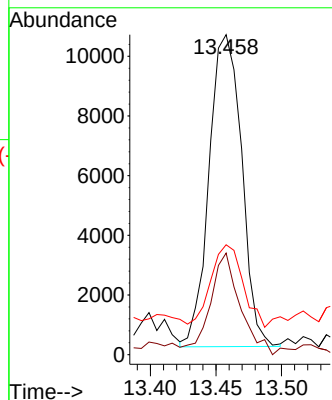
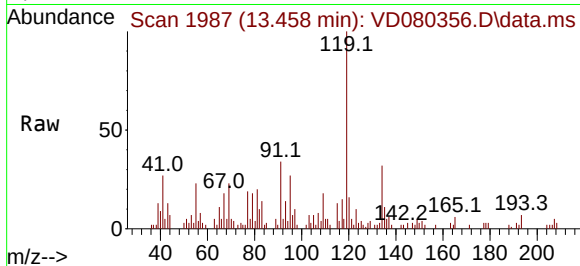




#86
p-Isopropyltoluene
Concen: 2.483 ug/l
RT: 13.458 min Scan# 1987
Delta R.T. 0.001 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0148

Tgt Ion:	119	Resp:	18090
Ion	Ratio	Lower	Upper
119	100		
134	29.0	13.1	39.1
91	25.9	12.2	36.4



#95
Naphthalene
Concen: 5.698 ug/l
RT: 15.328 min Scan# 2305
Delta R.T. 0.000 min
Lab File: VD080356.D
Acq: 15 May 2025 18:36

Tgt Ion:	128	Resp:	24975
Ion	Ratio	Lower	Upper
128	100		
127	15.4	11.8	17.8
129	10.6	8.3	12.5

