

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122321\
 Data File : VD071445.D
 Acq On : 23 Dec 2021 16:17
 Operator : VA/SY
 Sample : M5044-09
 Misc : 6.49G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 DA-9-4.5

Quant Time: Dec 24 03:31:31 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122221S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 23 08:20:24 2021
 Response via : Initial Calibration

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

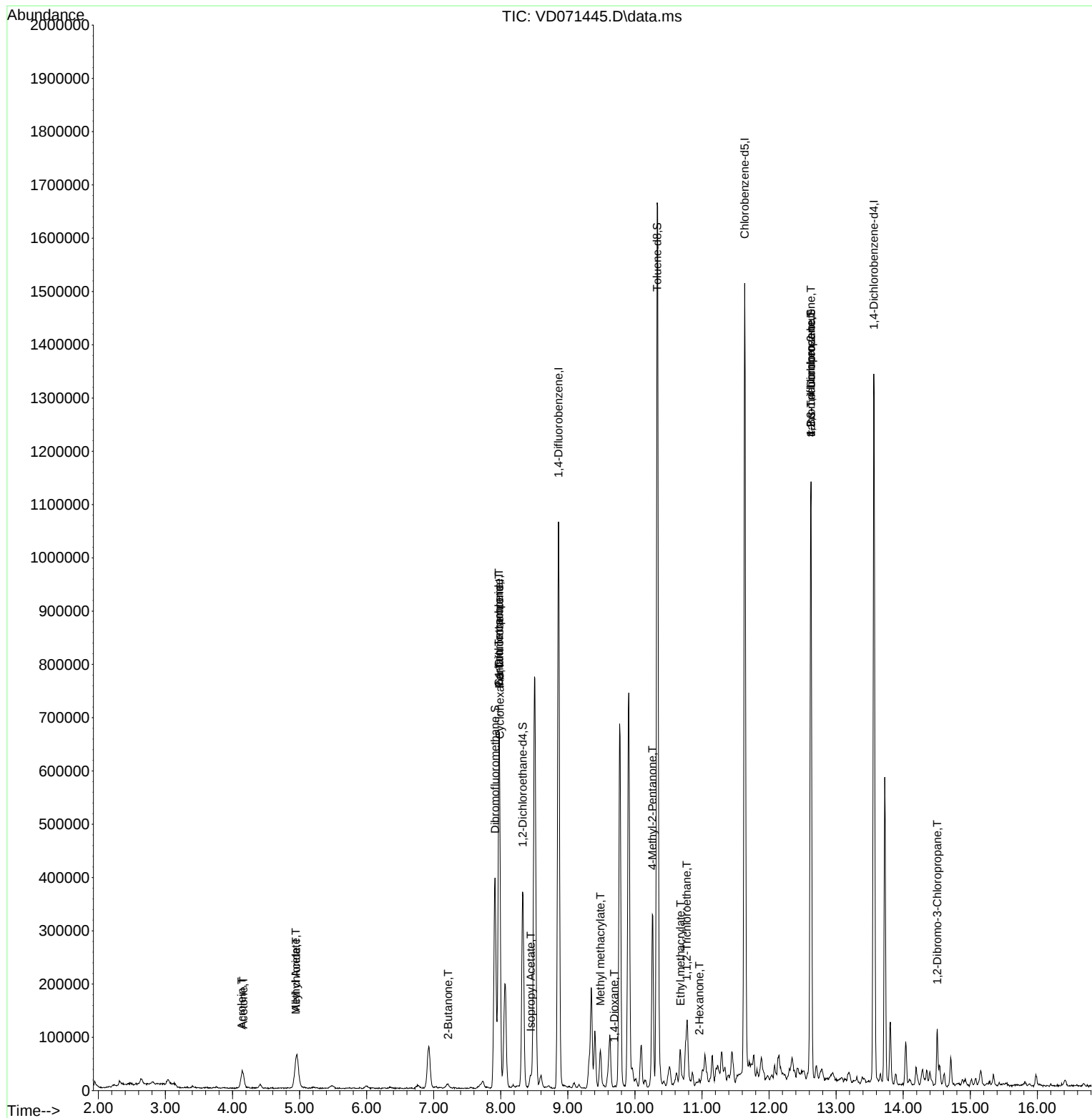
Internal Standards						
1) Pentafluorobenzene	7.979	168	465114	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	837239	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.637	117	758369	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	334287	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	292238	47.310	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	94.620%
35) Dibromofluoromethane	7.914	113	268898	47.788	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.580%
50) Toluene-d8	10.332	98	1073489	50.483	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	100.960%
62) 4-Bromofluorobenzene	12.626	95	346000	45.790	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	91.580%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.226	59	558	Below Cal	#	69
13) Acrolein	4.138	56	4568	15.309	ug/l #	81
14) Allyl chloride	4.950	41	21293	2.323	ug/l #	71
16) Acetone	4.161	43	41140	26.515	ug/l #	71
18) Methyl Acetate	4.944	43	47853	9.992	ug/l #	51
20) Methylene Chloride	4.961	84	20071	Below Cal		90
25) 2-Butanone	7.214	43	7688	4.148	ug/l #	78
31) Cyclohexane	7.985	56	15149	1.444	ug/l #	37
36) 1,1-Dichloropropene	7.973	75	43111	4.796	ug/l #	50
38) Carbon Tetrachloride	7.973	117	48770	5.499	ug/l #	15
43) Isopropyl Acetate	8.449	43	13740	1.668	ug/l #	47
48) Methyl methacrylate	9.485	41	21449	5.263	ug/l #	39
49) 1,4-Dioxane	9.691	88	65	1.660	ug/l #	23
51) 4-Methyl-2-Pentanone	10.261	43	39219	9.051	ug/l #	75
55) 1,1,2-Trichloroethane	10.773	97	22218	5.052	ug/l #	39
56) Ethyl methacrylate	10.679	69	5974	1.032	ug/l #	1
59) 2-Hexanone	10.961	43	5027	1.641	ug/l #	30
76) 1,2,3-Trichloropropane	12.626	75	198598	50.000	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	198598	141.278	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.508	75	852	1.054	ug/l #	4

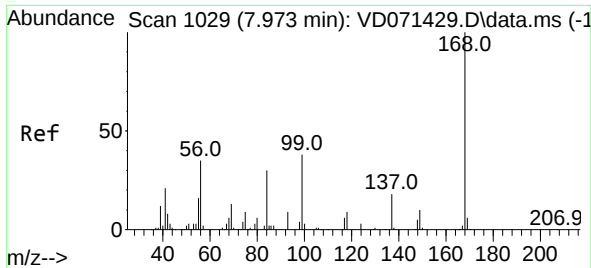
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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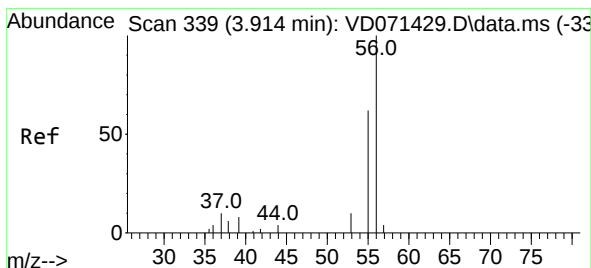
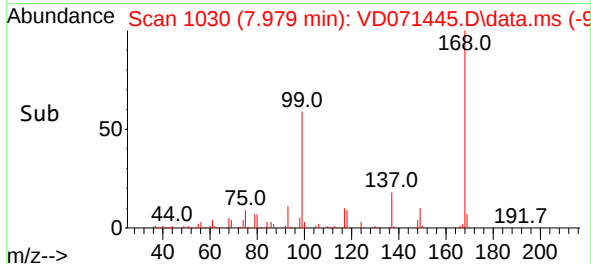
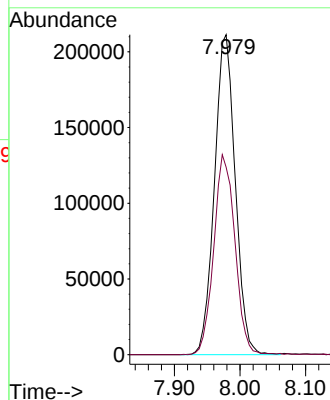
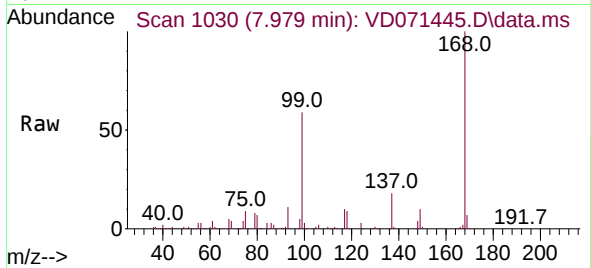




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1029
Delta R.T. 0.006 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

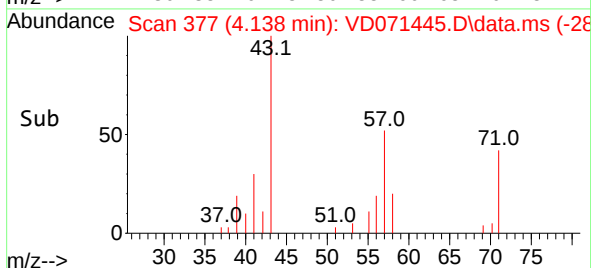
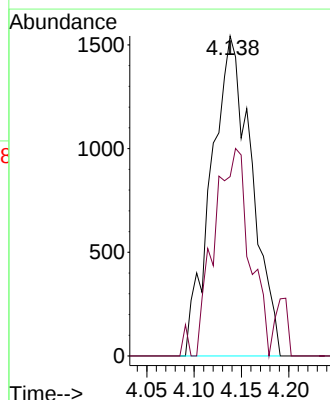
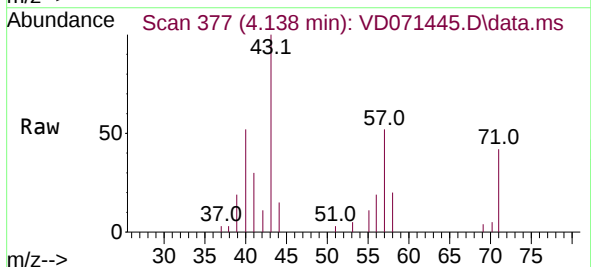
Instrument :
MSVOA_D
ClientSampleId :
DA-9-4.5

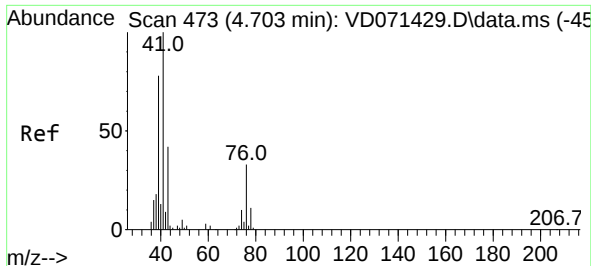
Tgt Ion:168 Resp: 465114
Ion Ratio Lower Upper
168 100
99 58.6 46.6 69.8



#13
Acrolein
Concen: 15.309 ug/l
RT: 4.138 min Scan# 377
Delta R.T. 0.224 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

Tgt Ion: 56 Resp: 4568
Ion Ratio Lower Upper
56 100
55 56.9 58.6 87.8#

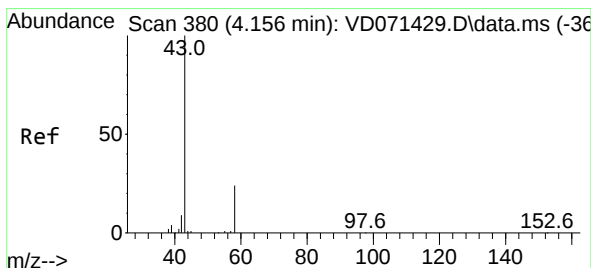
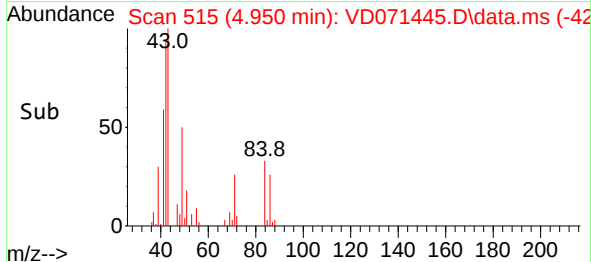
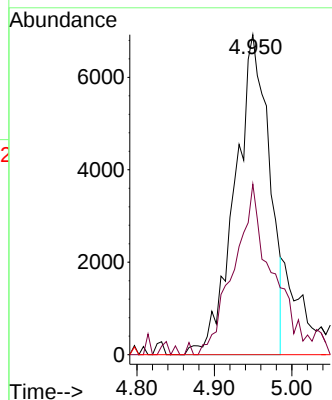
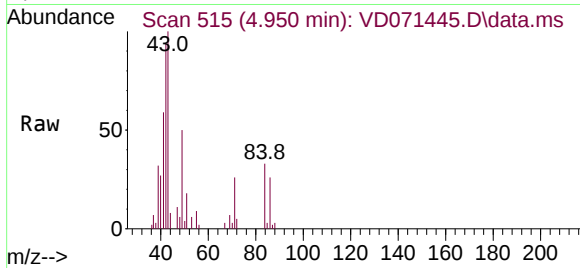




#14
 Allyl chloride
 Concen: 2.323 ug/l
 RT: 4.950 min Scan# 51
 Delta R.T. 0.247 min
 Lab File: VD071445.D
 Acq: 23 Dec 2021 16:17

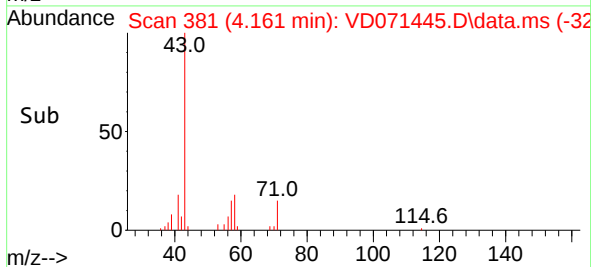
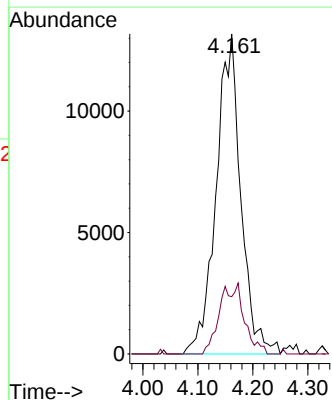
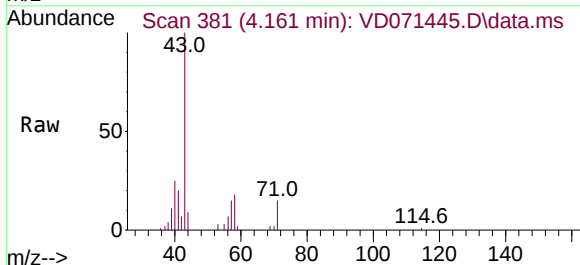
Instrument :
 MSVOA_D
 ClientSampleId :
 DA-9-4.5

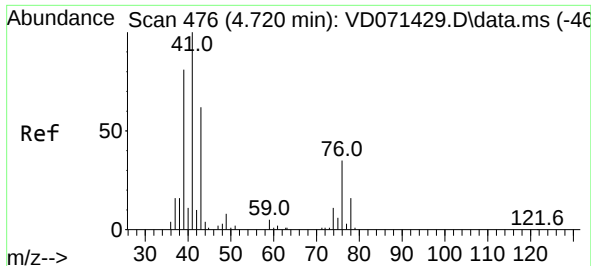
Tgt Ion: 41 Resp: 21293
 Ion Ratio Lower Upper
 41 100
 39 51.6 45.6 68.4
 76 0.0 30.2 45.4#



#16
 Acetone
 Concen: 26.515 ug/l
 RT: 4.161 min Scan# 381
 Delta R.T. 0.005 min
 Lab File: VD071445.D
 Acq: 23 Dec 2021 16:17

Tgt Ion: 43 Resp: 41140
 Ion Ratio Lower Upper
 43 100
 58 17.9 27.8 41.8#





#18

Methyl Acetate

Concen: 9.992 ug/l

RT: 4.944 min Scan# 514

Delta R.T. 0.224 min

Lab File: VD071445.D

Acq: 23 Dec 2021 16:17

Instrument :

MSVOA_D

ClientSampleId :

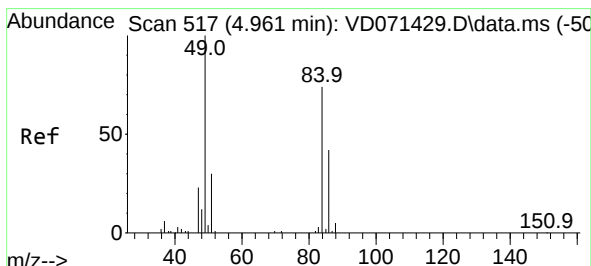
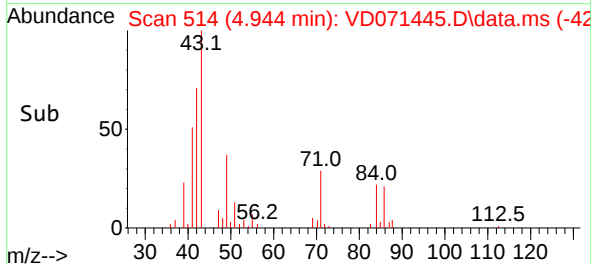
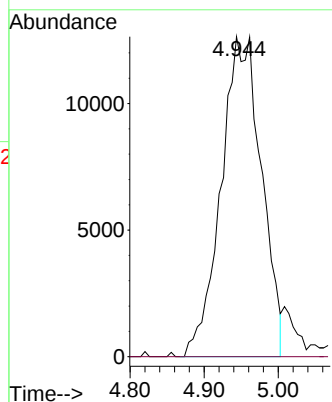
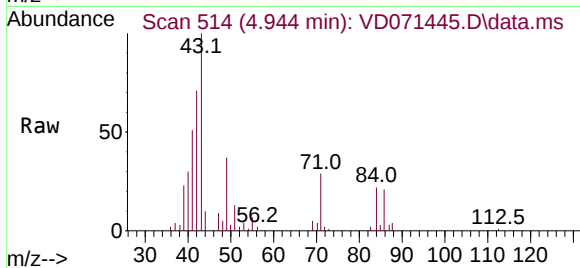
DA-9-4.5

Tgt Ion: 43 Resp: 47853

Ion Ratio Lower Upper

43 100

74 0.0 19.3 28.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.961 min Scan# 517

Delta R.T. 0.000 min

Lab File: VD071445.D

Acq: 23 Dec 2021 16:17

Tgt Ion: 84 Resp: 20071

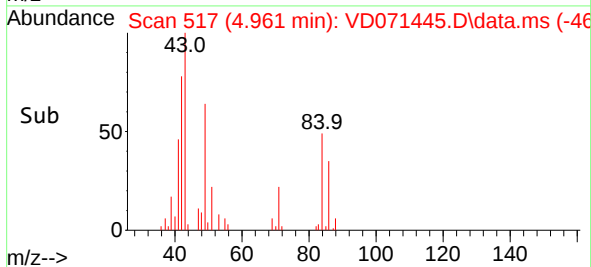
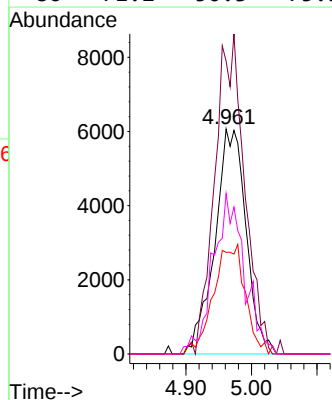
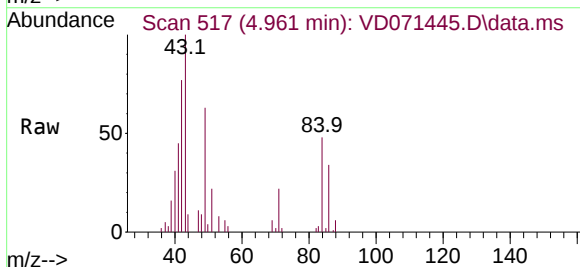
Ion Ratio Lower Upper

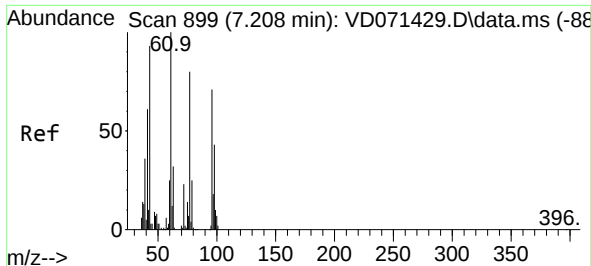
84 100

49 130.1 95.8 143.6

51 45.1 30.9 46.3

86 71.2 50.3 75.5

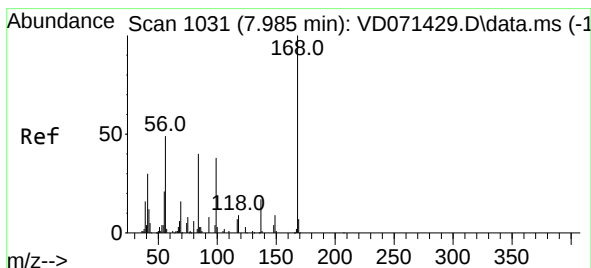
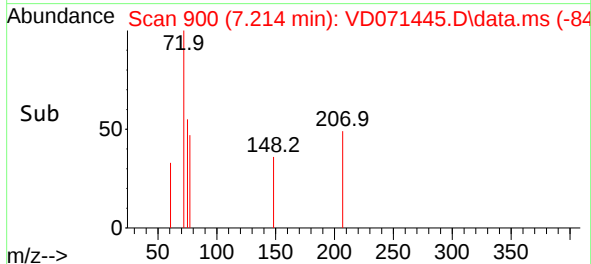
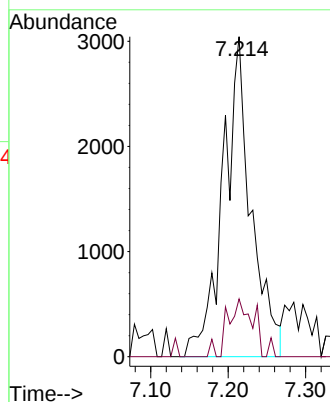
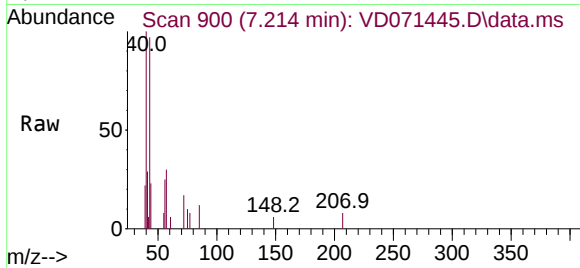




#25
2-Butanone
Concen: 4.148 ug/l
RT: 7.214 min Scan# 90
Delta R.T. 0.006 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

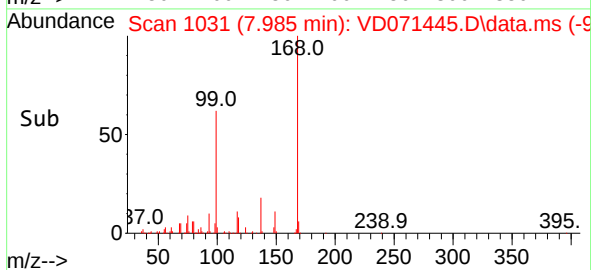
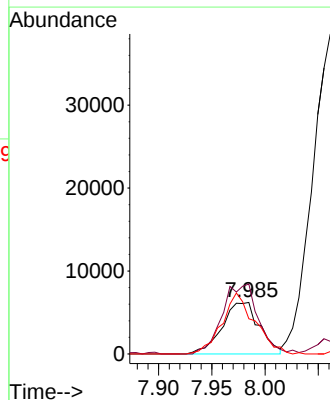
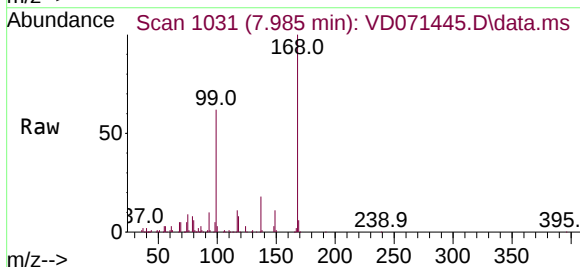
Instrument :
MSVOA_D
ClientSampleId :
DA-9-4.5

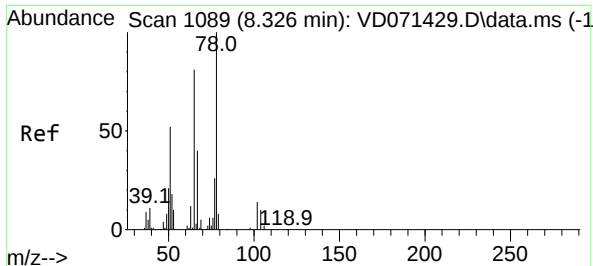
Tgt Ion: 43 Resp: 7688
Ion Ratio Lower Upper
43 100
72 18.1 23.8 35.6#



#31
Cyclohexane
Concen: 1.444 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

Tgt Ion: 56 Resp: 15149
Ion Ratio Lower Upper
56 100
69 135.6 25.9 38.9#
84 68.4 64.3 96.5





#33

1,2-Dichloroethane-d4

Concen: 47.310 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VD071445.D

Acq: 23 Dec 2021 16:17

Instrument :

MSVOA_D

ClientSampleId :

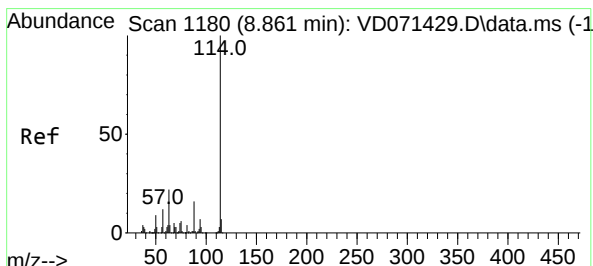
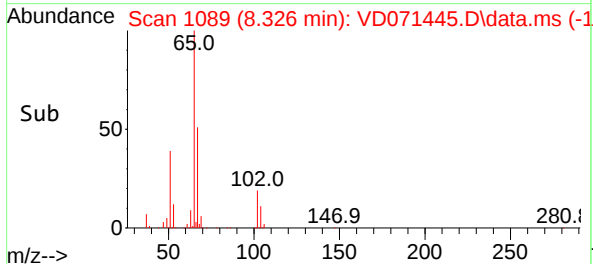
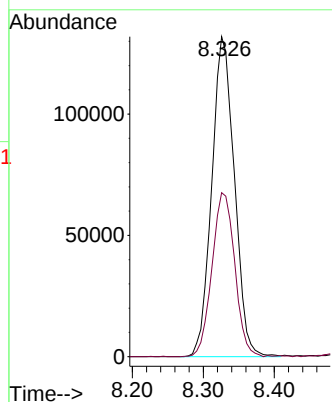
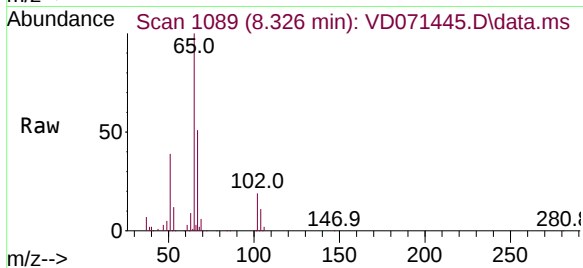
DA-9-4.5

Tgt Ion: 65 Resp: 292238

Ion Ratio Lower Upper

65 100

67 51.6 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071445.D

Acq: 23 Dec 2021 16:17

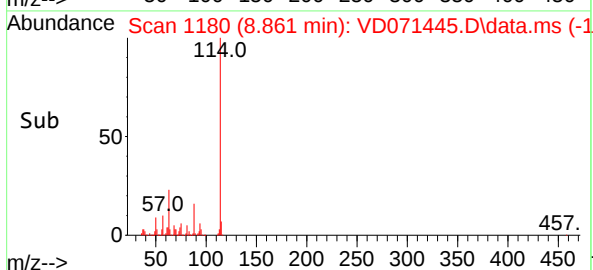
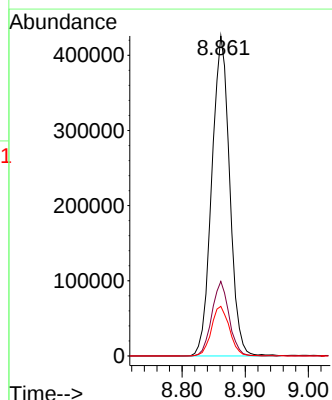
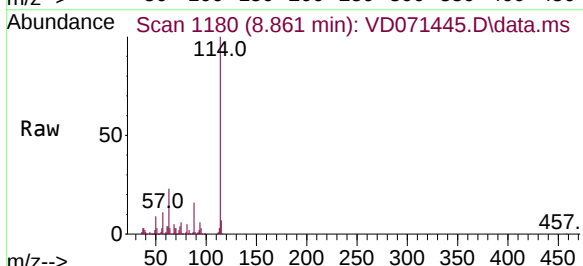
Tgt Ion:114 Resp: 837239

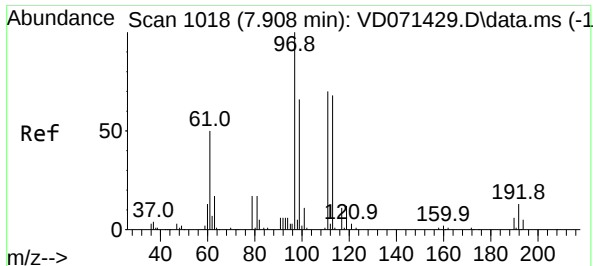
Ion Ratio Lower Upper

114 100

63 23.3 0.0 41.8

88 15.5 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.788 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.006 min

Lab File: VD071445.D

Acq: 23 Dec 2021 16:17

Instrument :

MSVOA_D

ClientSampleId :

DA-9-4.5

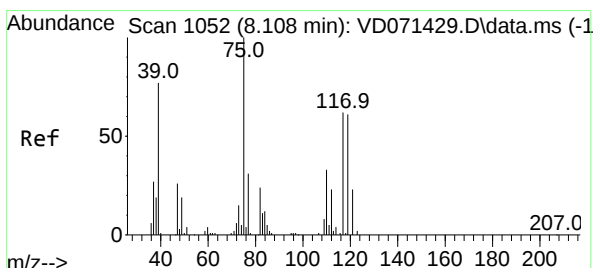
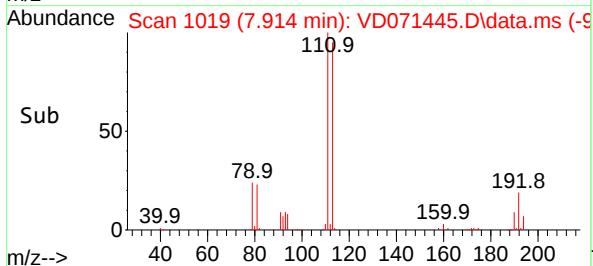
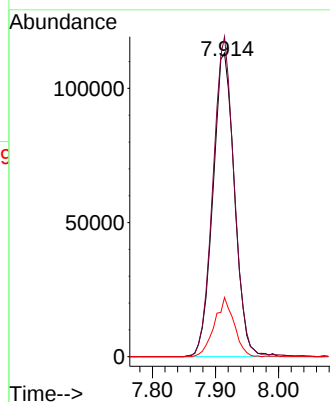
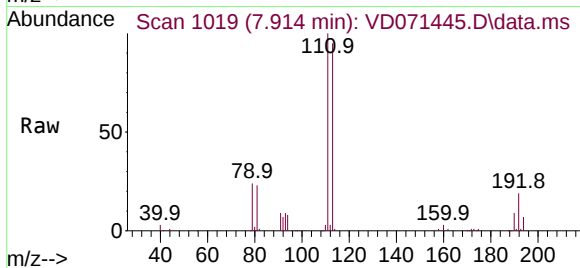
Tgt Ion:113 Resp: 268898

Ion Ratio Lower Upper

113 100

111 104.0 82.0 123.0

192 17.8 15.2 22.8



#36

1,1-Dichloropropene

Concen: 4.796 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD071445.D

Acq: 23 Dec 2021 16:17

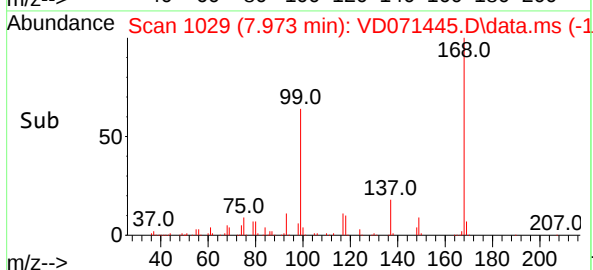
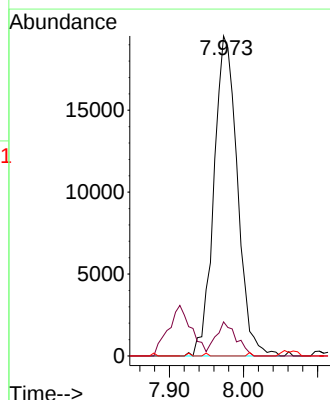
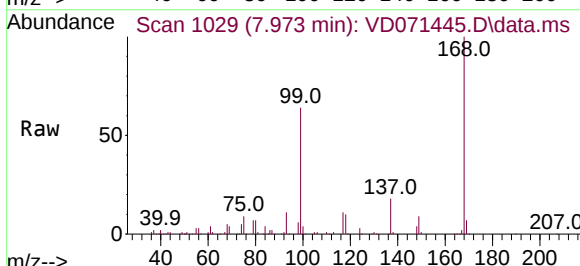
Tgt Ion: 75 Resp: 43111

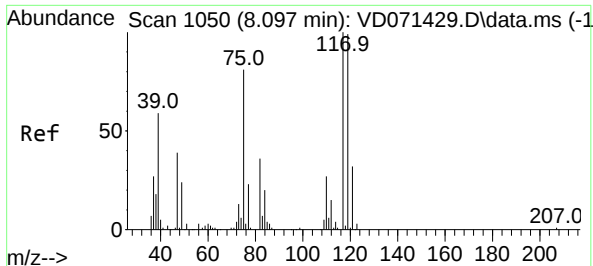
Ion Ratio Lower Upper

75 100

110 9.2 17.8 53.4#

77 0.0 24.8 37.2#

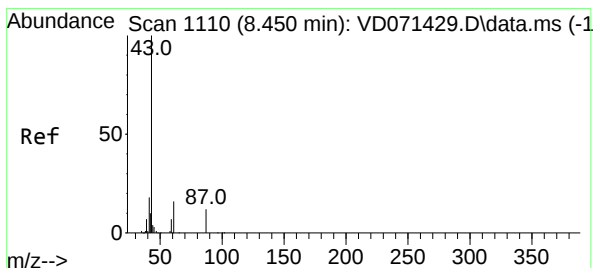
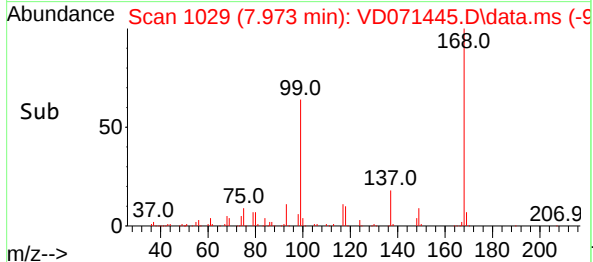
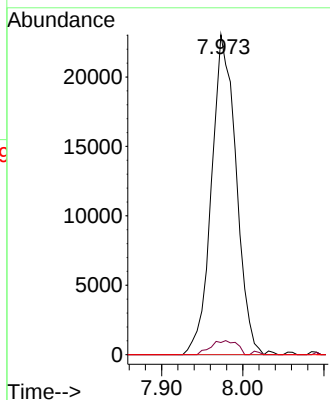
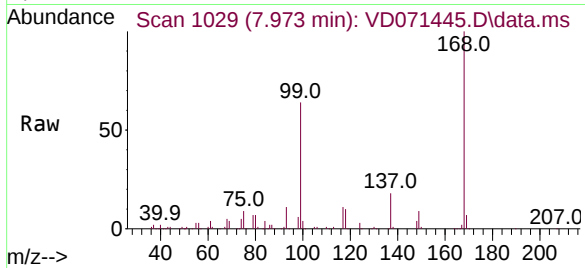




#38
Carbon Tetrachloride
Concen: 5.499 ug/l
RT: 7.973 min Scan# 1107
Delta R.T. -0.124 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

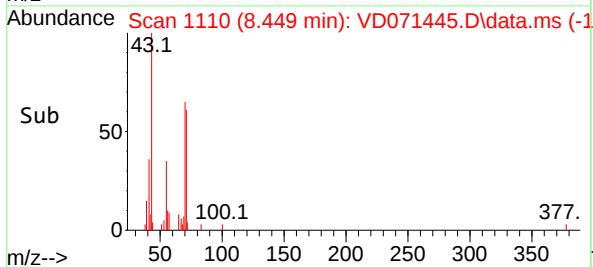
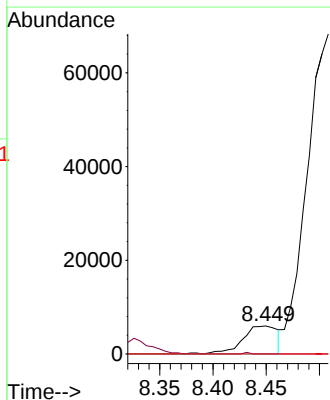
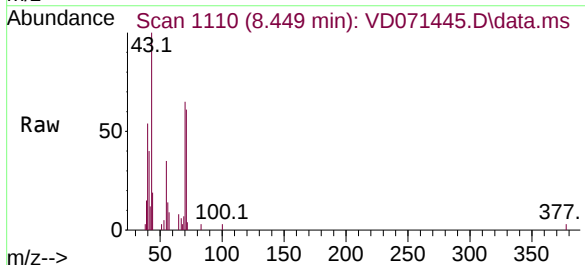
Instrument :
MSVOA_D
ClientSampleId :
DA-9-4.5

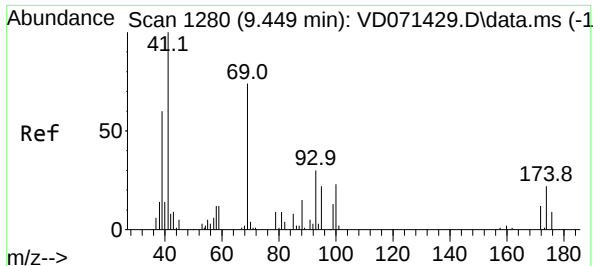
Tgt Ion:117 Resp: 48770
Ion Ratio Lower Upper
117 100
119 3.8 75.8 113.6#
121 0.0 23.6 35.4#



#43
Isopropyl Acetate
Concen: 1.668 ug/l
RT: 8.449 min Scan# 1110
Delta R.T. -0.001 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

Tgt Ion: 43 Resp: 13740
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#

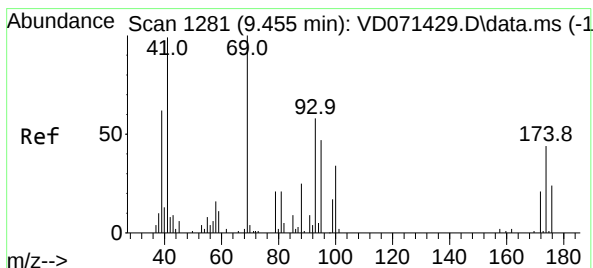
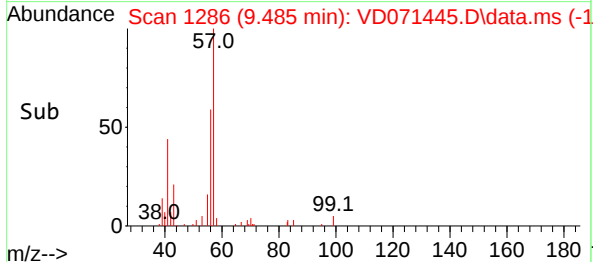
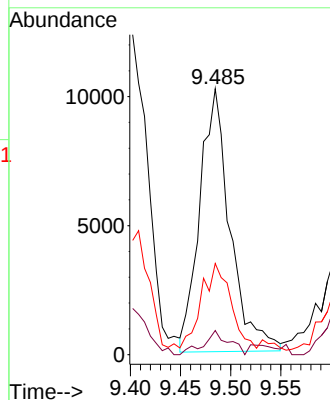
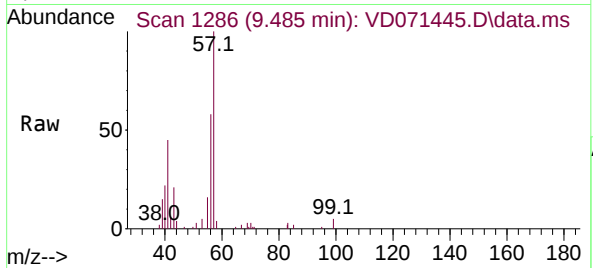




#48
Methyl methacrylate
Concen: 5.263 ug/l
RT: 9.485 min Scan# 1286
Delta R.T. 0.036 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

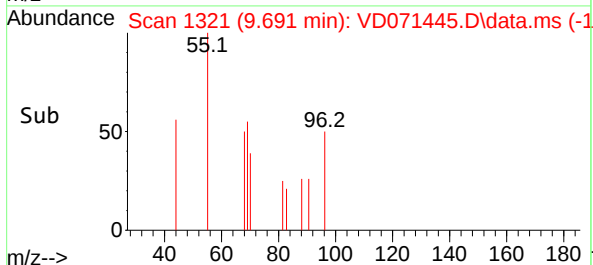
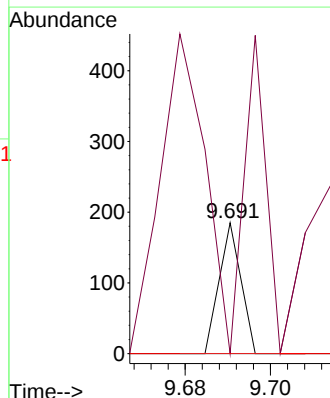
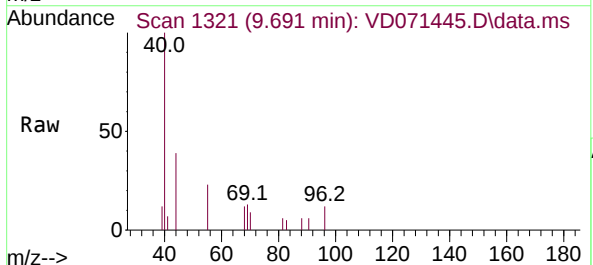
Instrument :
MSVOA_D
ClientSampleId :
DA-9-4.5

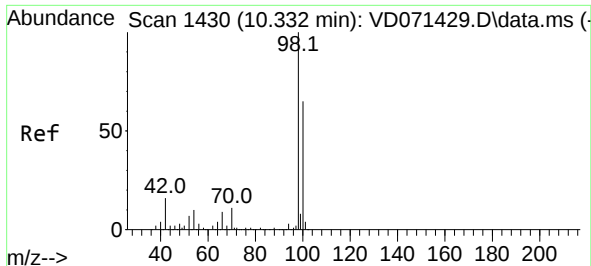
Tgt Ion: 41 Resp: 21449
Ion Ratio Lower Upper
41 100
69 7.5 69.8 104.6#
39 37.0 35.6 53.4



#49
1,4-Dioxane
Concen: 1.660 ug/l
RT: 9.691 min Scan# 1321
Delta R.T. 0.236 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 0.0 28.9 43.3#
58 0.0 56.3 84.5#

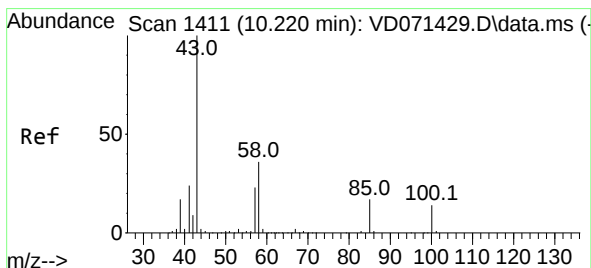
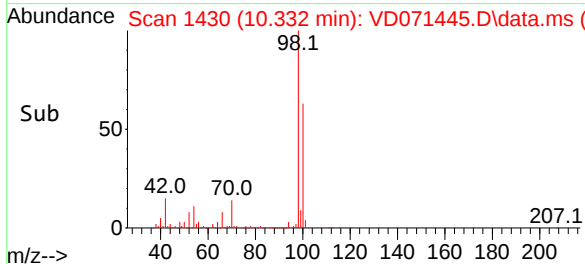
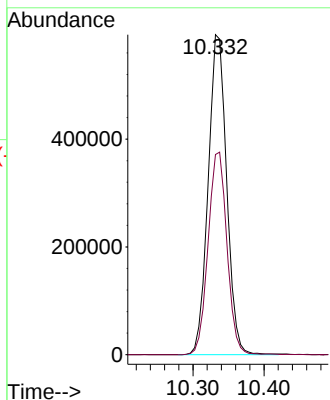
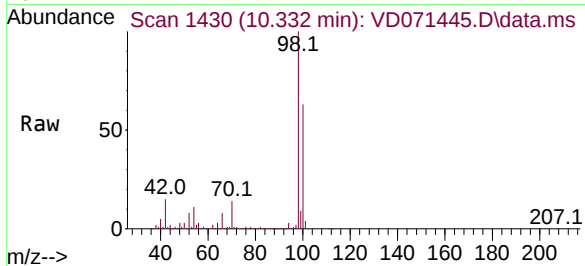




#50
Toluene-d8
Concen: 50.483 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

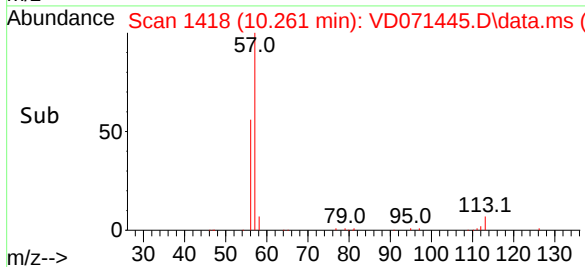
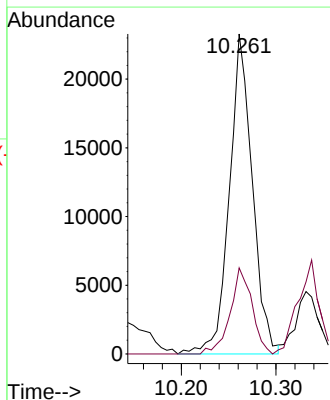
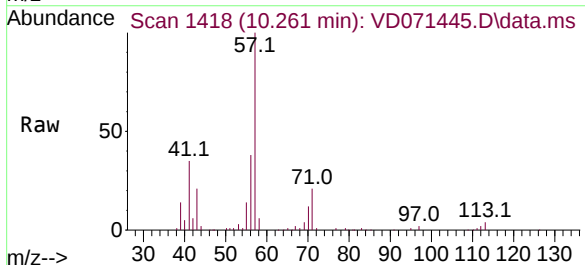
Instrument :
MSVOA_D
ClientSampleId :
DA-9-4.5

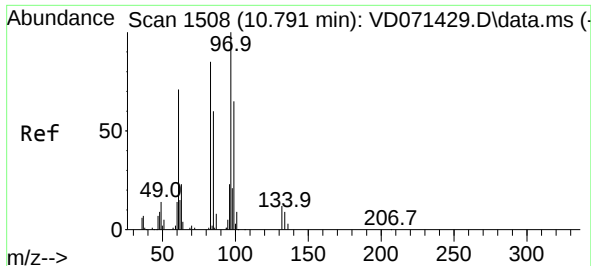
Tgt Ion: 98 Resp: 1073489
Ion Ratio Lower Upper
98 100
100 64.5 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 9.051 ug/l
RT: 10.261 min Scan# 1418
Delta R.T. 0.041 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

Tgt Ion: 43 Resp: 39219
Ion Ratio Lower Upper
43 100
58 25.5 33.1 49.7#

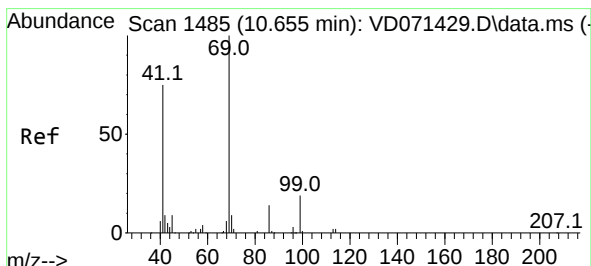
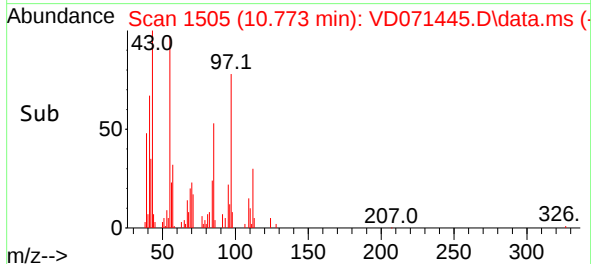
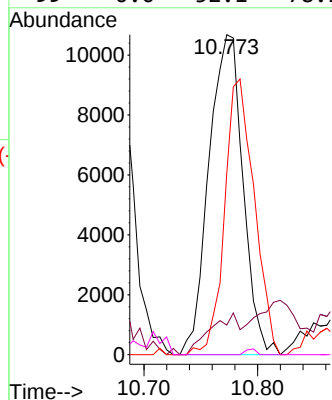
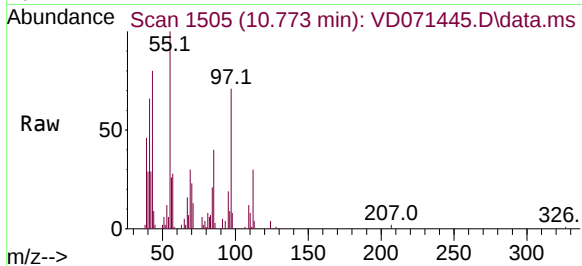




#55
1,1,2-Trichloroethane
Concen: 5.052 ug/l
RT: 10.773 min Scan# 1505
Delta R.T. -0.018 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

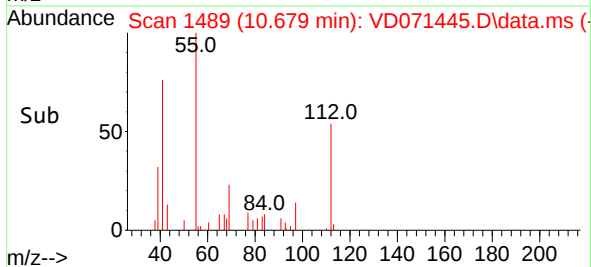
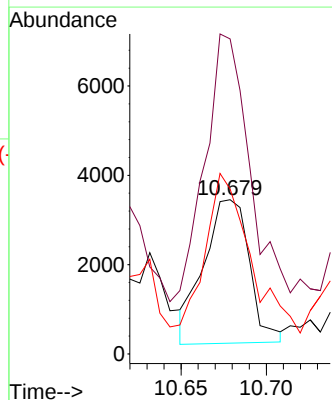
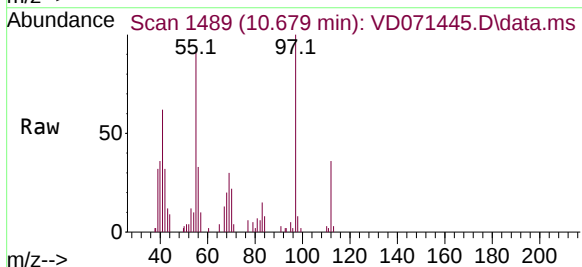
Instrument :
MSVOA_D
ClientSampleId :
DA-9-4.5

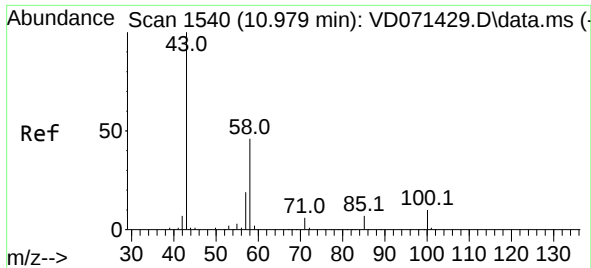
Tgt Ion: 97	Resp: 22218
Ion Ratio	Lower Upper
97 100	
83 9.3	65.2 97.8#
85 56.6	43.4 65.0
99 0.0	52.1 78.1#



#56
Ethyl methacrylate
Concen: 1.032 ug/l
RT: 10.679 min Scan# 1489
Delta R.T. 0.024 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

Tgt Ion: 69	Resp: 5974		
Ion Ratio	Lower	Upper	
69 100			
41 246.5	50.2	75.2#	
39 134.1	19.8	29.8#	

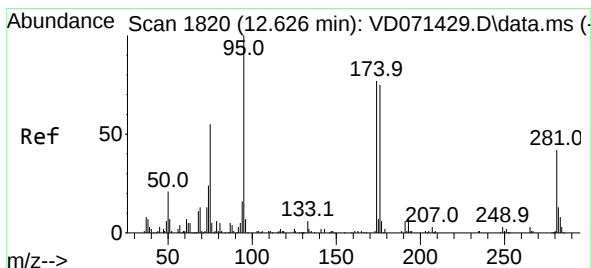
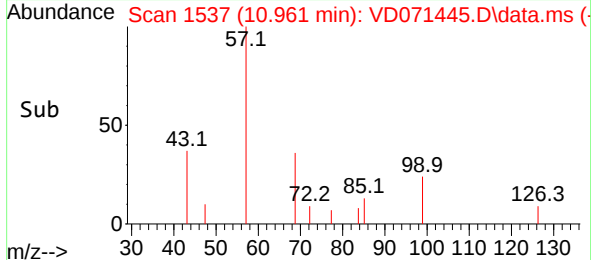
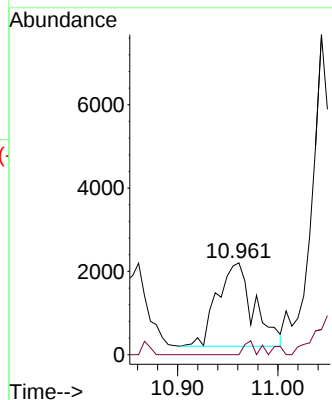
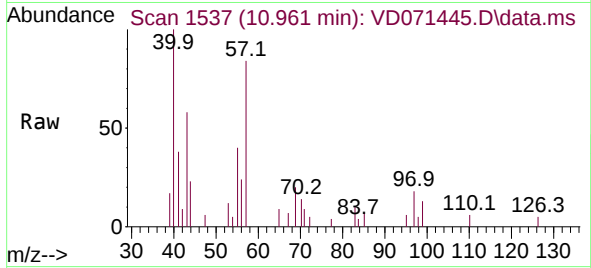




#59
2-Hexanone
Concen: 1.641 ug/l
RT: 10.961 min Scan# 1537
Delta R.T. -0.018 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

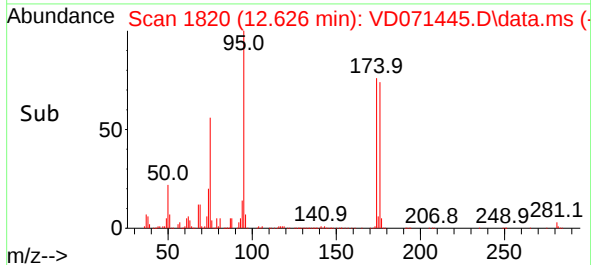
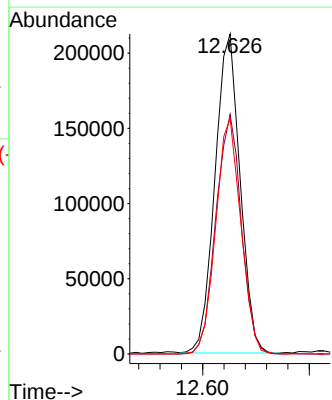
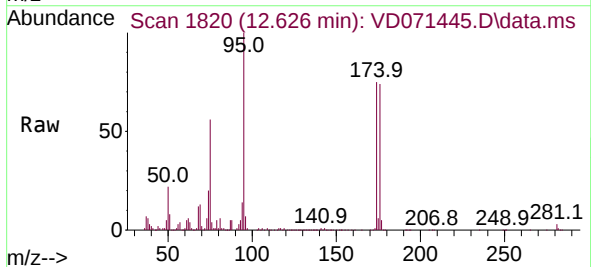
Instrument :
MSVOA_D
ClientSampleId :
DA-9-4.5

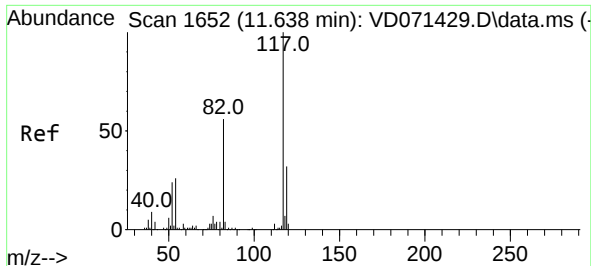
Tgt Ion: 43 Resp: 5027
Ion Ratio Lower Upper
43 100
58 5.6 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 45.790 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

Tgt Ion: 95 Resp: 346000
Ion Ratio Lower Upper
95 100
174 76.1 0.0 159.4
176 74.2 0.0 154.0

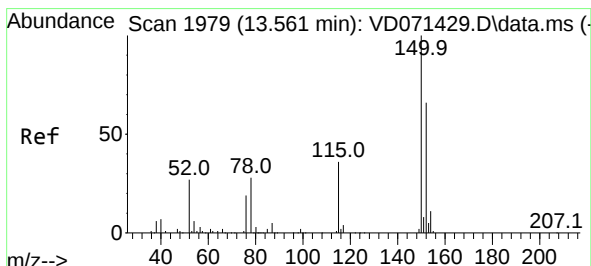
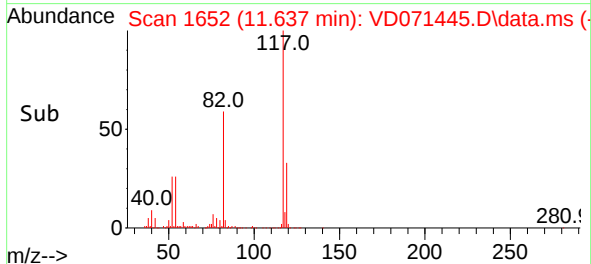
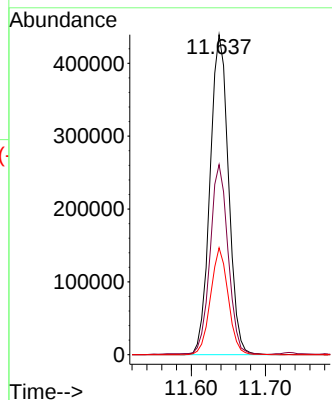
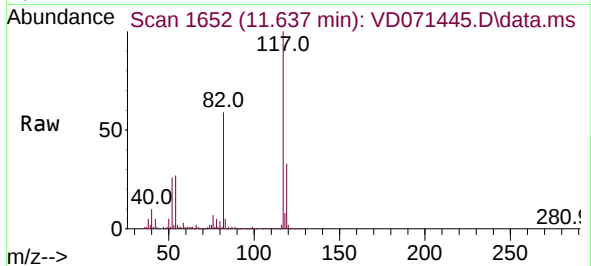




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.637 min Scan# 1652
Delta R.T. -0.001 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

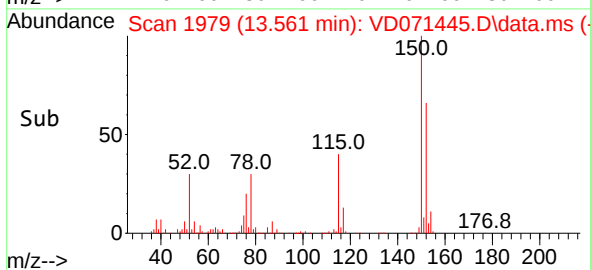
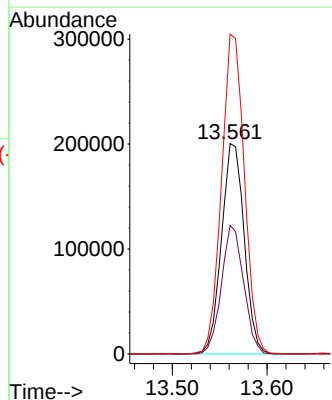
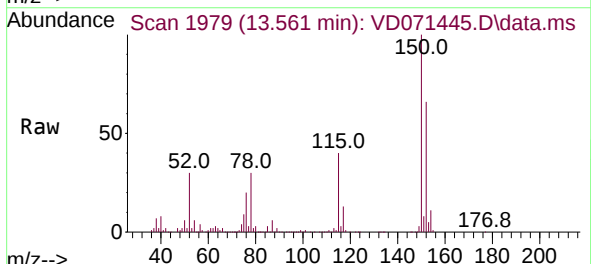
Instrument :
MSVOA_D
ClientSampleId :
DA-9-4.5

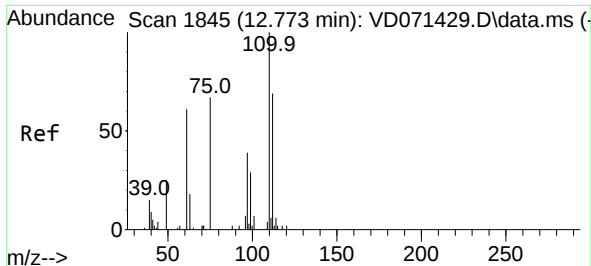
Tgt Ion:117 Resp: 758369
Ion Ratio Lower Upper
117 100
82 59.1 44.7 67.1
119 33.4 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

Tgt Ion:152 Resp: 334287
Ion Ratio Lower Upper
152 100
115 59.8 29.8 89.3
150 153.2 0.0 349.2

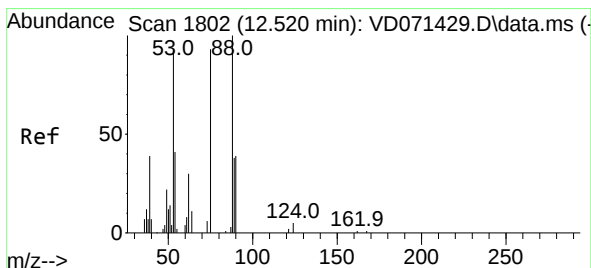
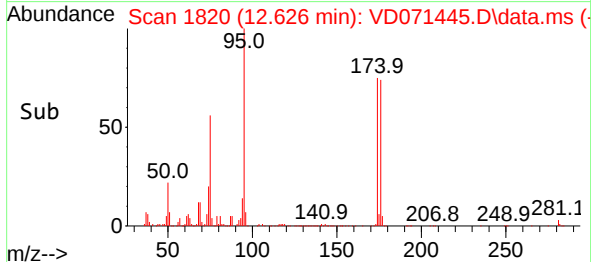
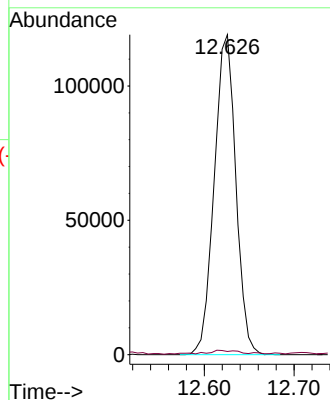
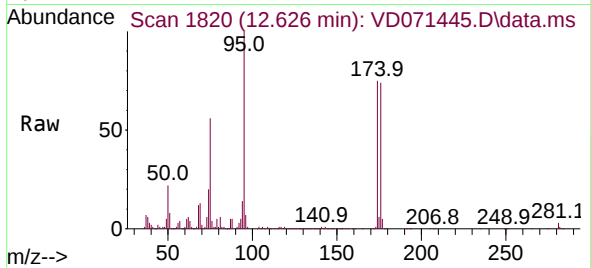




#76
1,2,3-Trichloropropane
Concen: 50.000 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

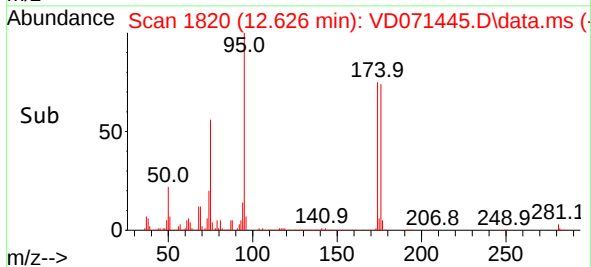
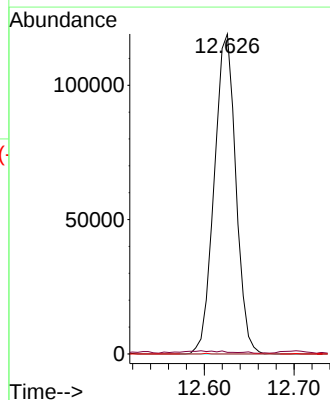
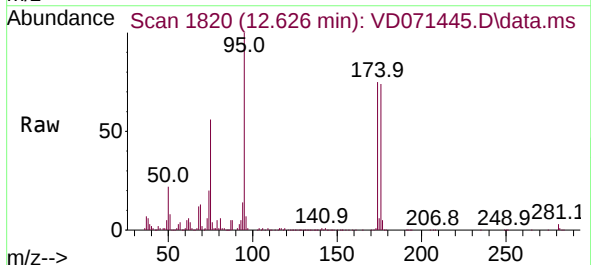
Instrument :
MSVOA_D
ClientSampleId :
DA-9-4.5

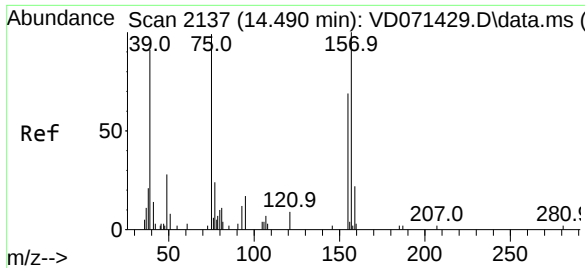
Tgt Ion: 75 Resp: 198598
Ion Ratio Lower Upper
75 100
77 1.4 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 141.278 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD071445.D
Acq: 23 Dec 2021 16:17

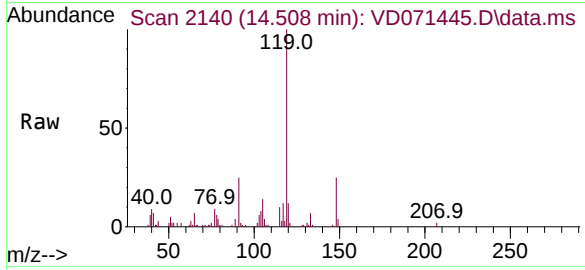
Tgt Ion: 75 Resp: 198598
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.054 ug/l
 RT: 14.508 min Scan# 2140
 Delta R.T. 0.018 min
 Lab File: VD071445.D
 Acq: 23 Dec 2021 16:17

Instrument :
 MSVOA_D
 ClientSampleId :
 DA-9-4.5



Tgt Ion:	75	Resp:	852
Ion	Ratio	Lower	Upper
75	100		
155	0.0	40.0	120.0#
157	0.0	49.8	149.3#

