

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD062522\
 Data File : VD073716.D
 Acq On : 25 Jun 2022 18:28
 Operator : VA/SY
 Sample : N3455-17
 Misc : 4.70G/5.00ml/MSVOA_D/SoIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-EXC-2-3

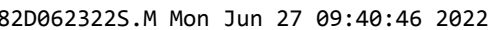
Quant Time: Jun 27 09:40:37 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D062322S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 24 07:36:47 2022
 Response via : Initial Calibration

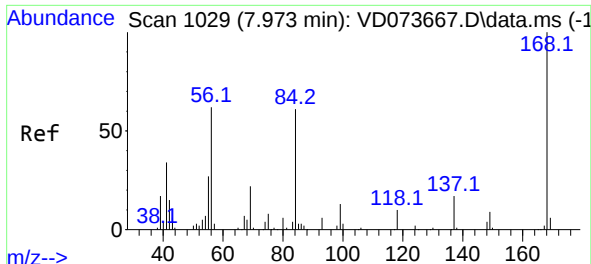
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.973	168	29173	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	52241	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	65475	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	34956	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	25317	70.657	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 141.320%	
35) Dibromofluoromethane	7.908	113	21148	51.966	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 103.940%	
50) Toluene-d8	10.332	98	72795	49.819	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 99.640%	
62) 4-Bromofluorobenzene	12.620	95	32775	59.804	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 119.600%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.203	50	335	Below Cal	#	40
5) Bromomethane	2.773	94	529	Below Cal		94
10) Methyl Iodide	4.303	142	473	1.410	ug/l #	36
16) Acetone	4.156	43	9811	167.702	ug/l #	88
17) Carbon Disulfide	4.414	76	1516	2.004	ug/l #	74
18) Methyl Acetate	4.932	43	59	Below Cal	#	50
20) Methylene Chloride	4.950	84	62	Below Cal	#	55
25) 2-Butanone	7.208	43	2160	23.921	ug/l	92
31) Cyclohexane	7.985	56	707	1.315	ug/l #	1
36) 1,1-Dichloropropene	7.967	75	2171	3.800	ug/l #	41
37) Ethyl Acetate	7.208	43	2160	9.634	ug/l #	68
38) Carbon Tetrachloride	7.973	117	3124	4.697	ug/l #	18
48) Methyl methacrylate	9.444	41	291	1.303	ug/l #	31
51) 4-Methyl-2-Pentanone	10.220	43	335	1.482	ug/l #	82
55) 1,1,2-Trichloroethane	10.767	97	2412	7.109	ug/l #	22
56) Ethyl methacrylate	10.667	69	636	1.663	ug/l #	1
59) 2-Hexanone	11.002	43	229	1.500	ug/l #	22
60) Dibromochloromethane	11.161	129	519	1.161	ug/l	61
71) Bromoform	12.367	173	600	1.712	ug/l #	94
73) Isopropylbenzene	12.467	105	3213	1.126	ug/l	75
74) N-amyl acetate	12.238	43	3323	5.689	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.620	83	2961	5.498	ug/l	66
76) 1,2,3-Trichloropropane	12.620	75	14523	42.693	ug/l #	1
77) Bromobenzene	12.879	156	1957	2.851	ug/l #	8
81) trans-1,4-Dichloro-2-b...	12.620	75	14523	87.160	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.255	105	2406	1.001	ug/l	96
90) Hexachloroethane	14.090	117	591	1.089	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.526	75	145	1.613	ug/l #	1
95) Naphthalene	15.379	128	1317	1.003	ug/l #	63

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

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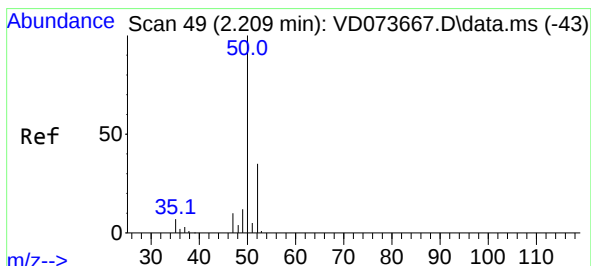
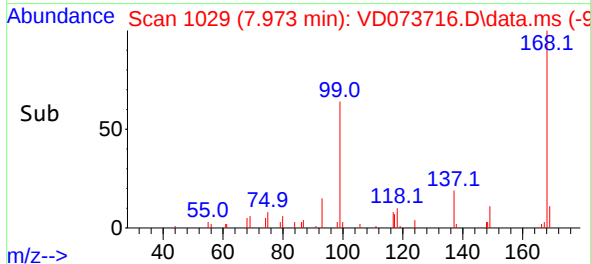
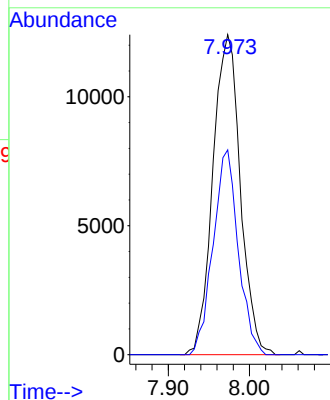
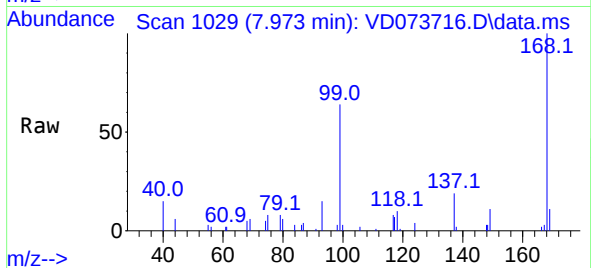




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. 0.000 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

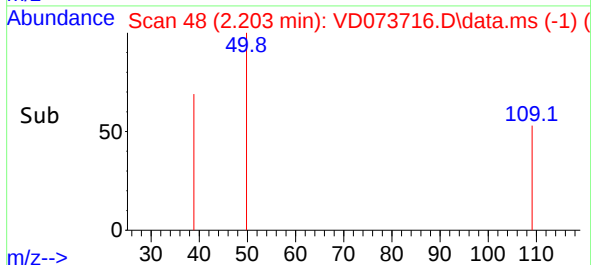
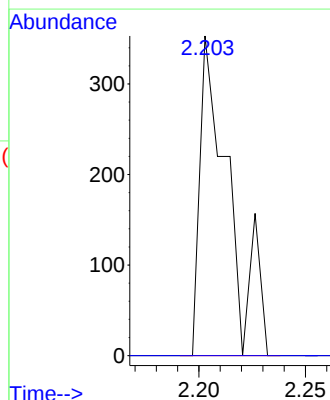
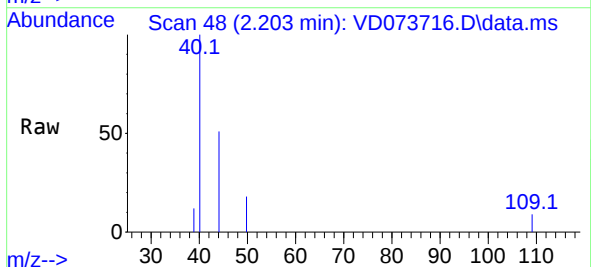
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-3

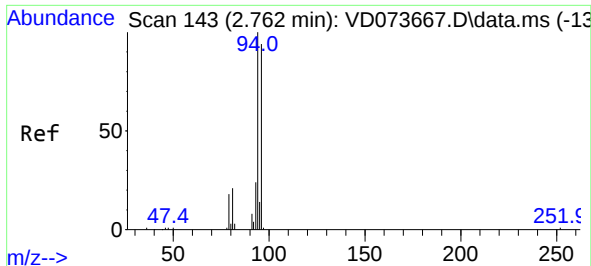
Tgt Ion:168 Resp: 29173
Ion Ratio Lower Upper
168 100
99 64.0 46.4 69.6



#3
Chloromethane
Concen: Below Cal
RT: 2.203 min Scan# 48
Delta R.T. -0.006 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Tgt Ion: 50 Resp: 335
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.6#

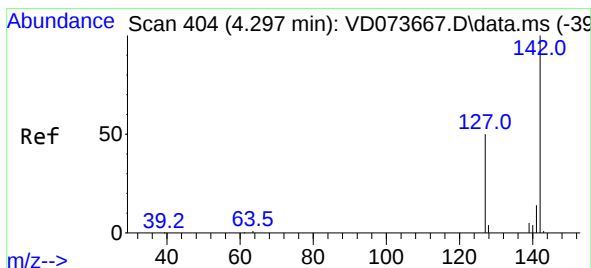
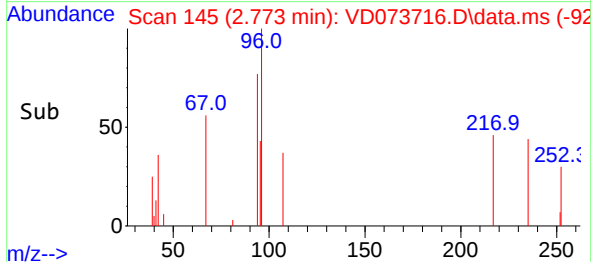
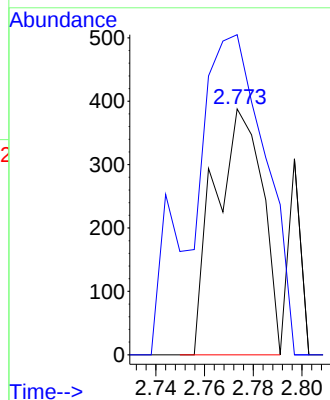
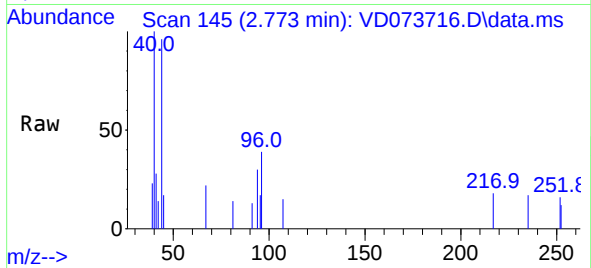




#5
Bromomethane
Concen: Below Cal
RT: 2.773 min Scan# 14
Delta R.T. 0.011 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

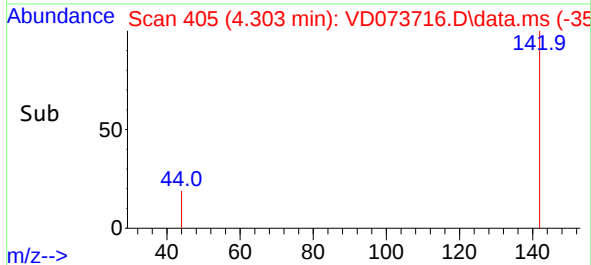
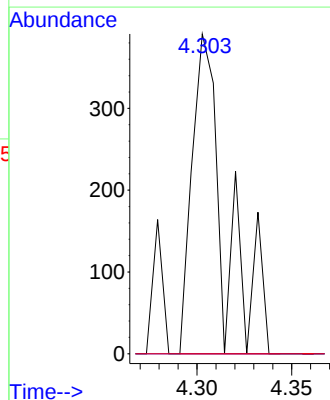
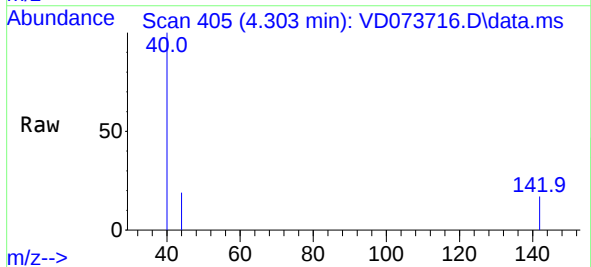
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-3

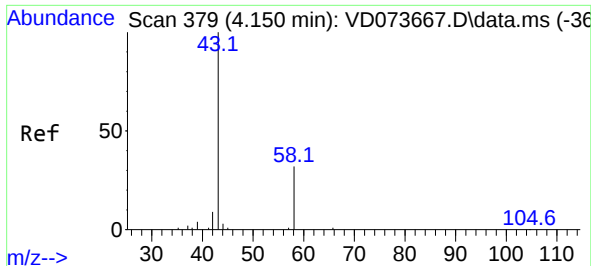
Tgt Ion: 94 Resp: 529
Ion Ratio Lower Upper
94 100
96 88.1 75.1 112.7



#10
Methyl Iodide
Concen: 1.410 ug/l
RT: 4.303 min Scan# 405
Delta R.T. 0.006 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Tgt Ion: 142 Resp: 473
Ion Ratio Lower Upper
142 100
127 0.0 39.4 59.2#
141 0.0 11.9 17.9#

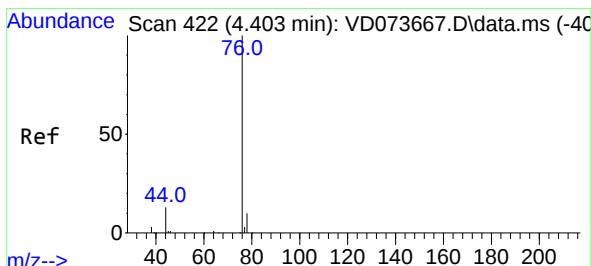
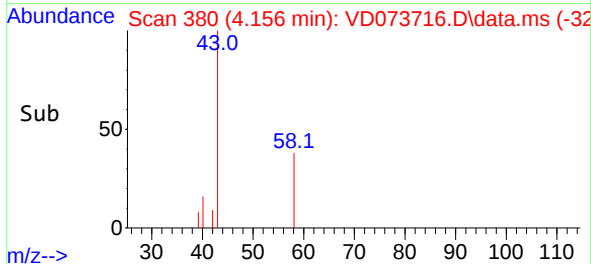
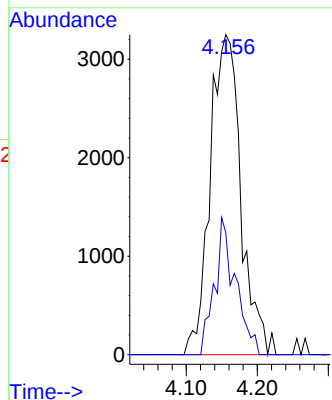
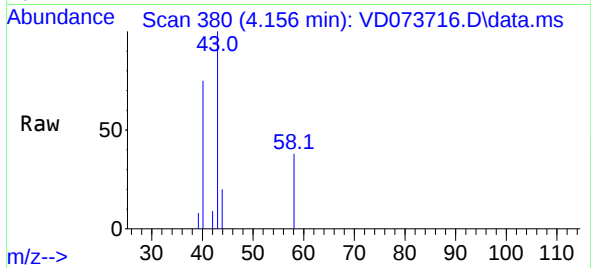




#16
Acetone
Concen: 167.702 ug/l
RT: 4.156 min Scan# 31
Delta R.T. 0.006 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

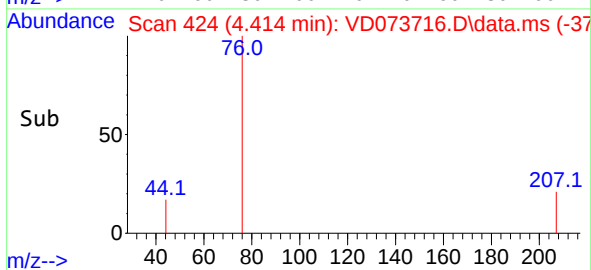
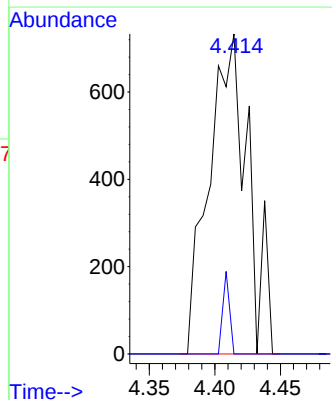
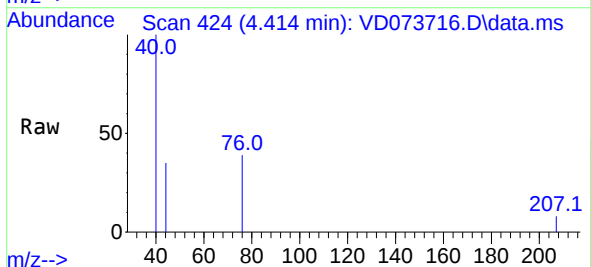
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-3

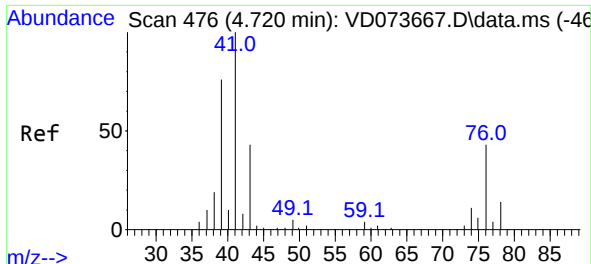
Tgt Ion: 43 Resp: 9811
Ion Ratio Lower Upper
43 100
58 38.1 25.2 37.8#



#17
Carbon Disulfide
Concen: 2.004 ug/l
RT: 4.414 min Scan# 424
Delta R.T. 0.012 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Tgt Ion: 76 Resp: 1516
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.932 min Scan# 512

Delta R.T. 0.212 min

Lab File: VD073716.D

Acq: 25 Jun 2022 18:28

Instrument :

MSVOA_D

ClientSampleId :

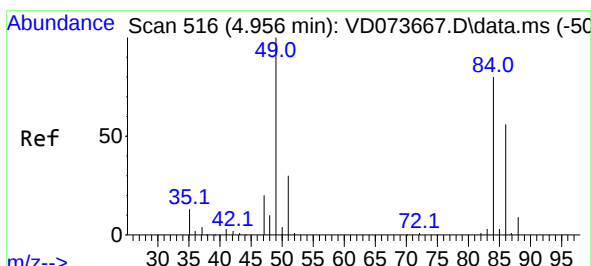
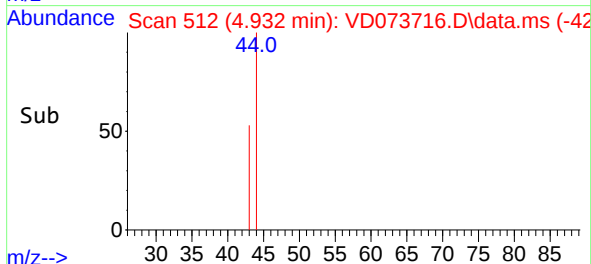
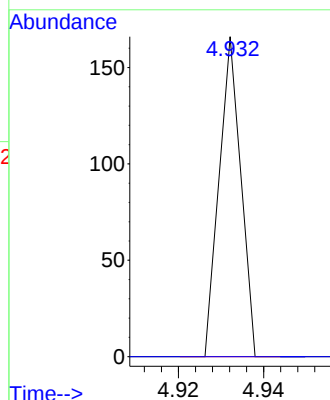
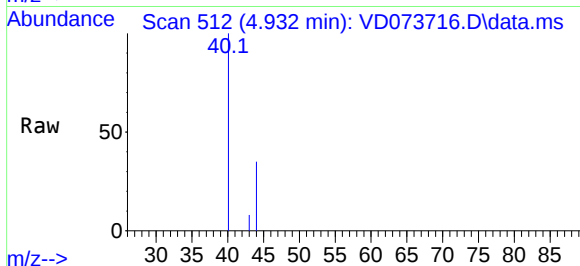
SP-EXC-2-3

Tgt Ion: 43 Resp: 59

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.4#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.950 min Scan# 515

Delta R.T. -0.006 min

Lab File: VD073716.D

Acq: 25 Jun 2022 18:28

Tgt Ion: 84 Resp: 62

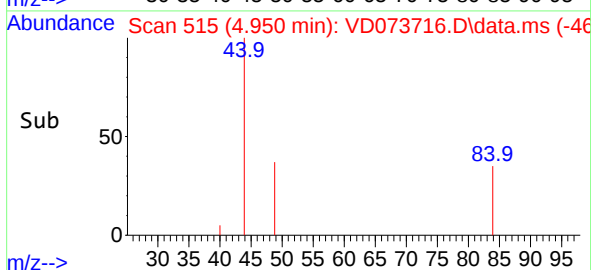
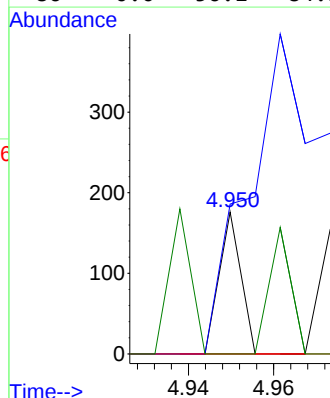
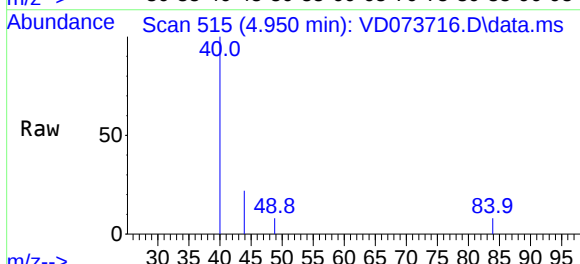
Ion Ratio Lower Upper

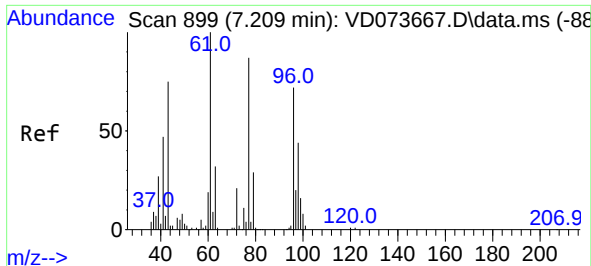
84 100

49 105.7 100.6 150.8

51 0.0 29.8 44.6#

86 0.0 56.1 84.1#

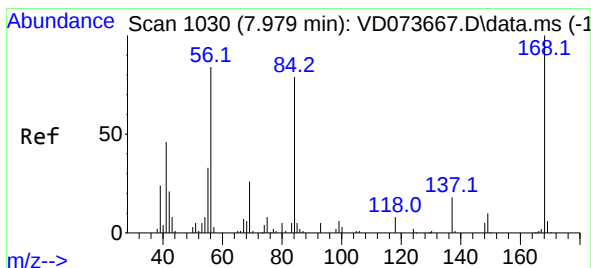
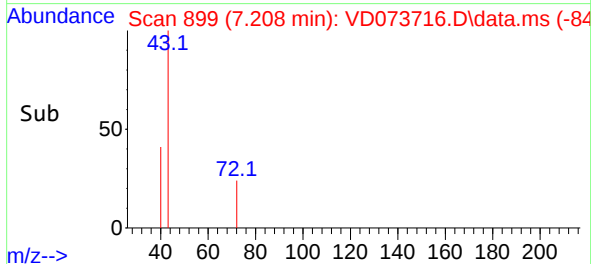
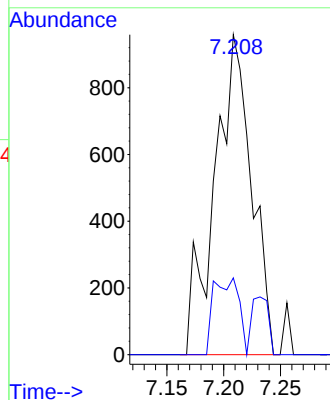
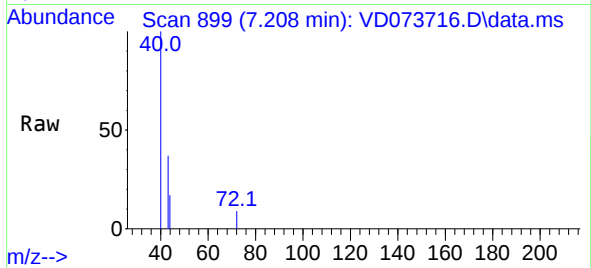




#25
2-Butanone
Concen: 23.921 ug/l
RT: 7.208 min Scan# 899
Delta R.T. -0.000 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

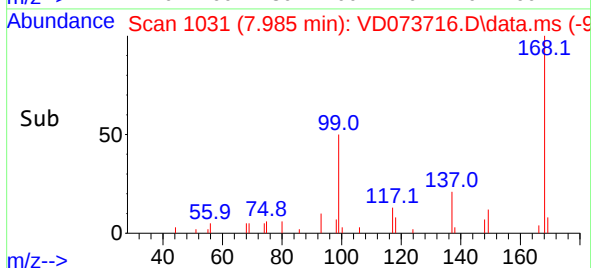
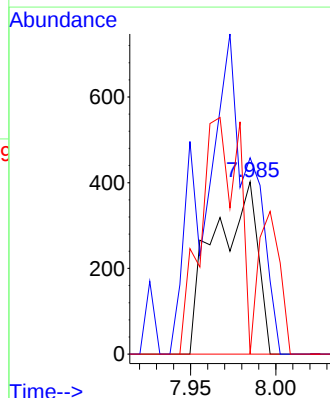
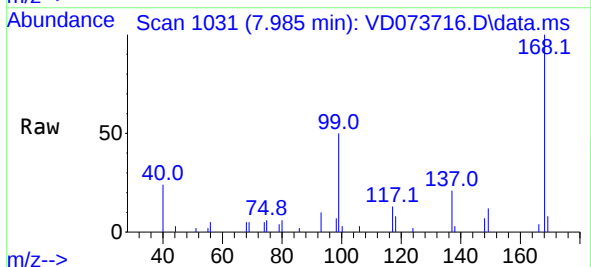
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SP-EXC-2-3

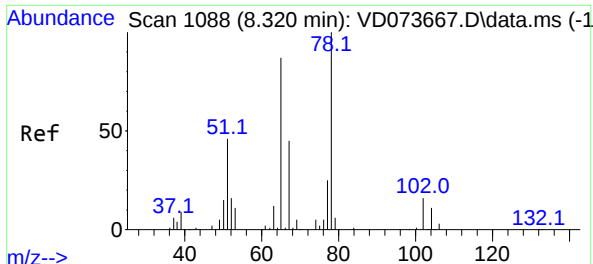
Tgt Ion: 43 Resp: 2160
Ion Ratio Lower Upper
43 100
72 24.0 22.6 33.8



#31
Cyclohexane
Concen: 1.315 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. 0.006 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Tgt Ion: 56 Resp: 707
Ion Ratio Lower Upper
56 100
69 113.9 25.2 37.8#
84 0.0 75.4 113.2#

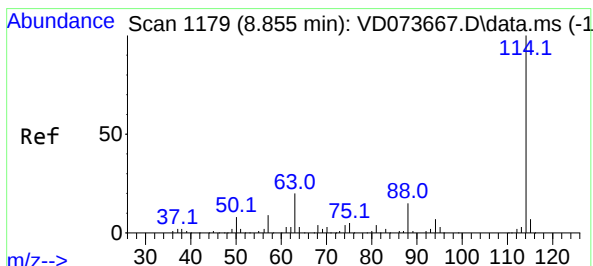
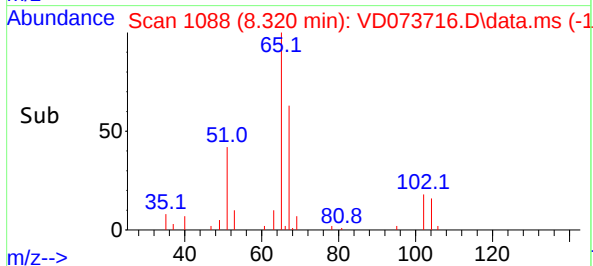
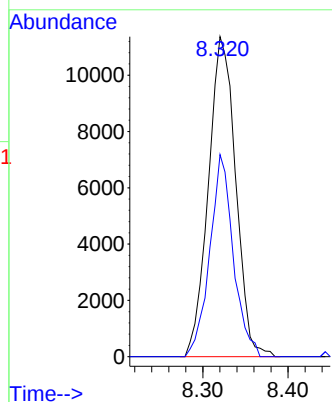
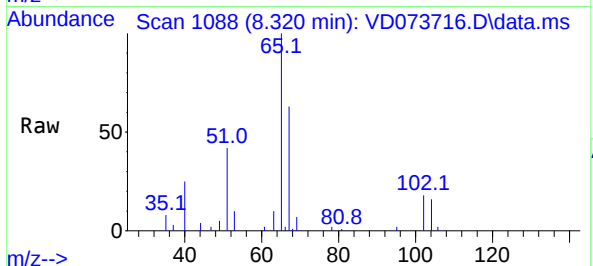




#33
1,2-Dichloroethane-d4
Concen: 70.657 ug/l
RT: 8.320 min Scan# 1088
Delta R.T. -0.000 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

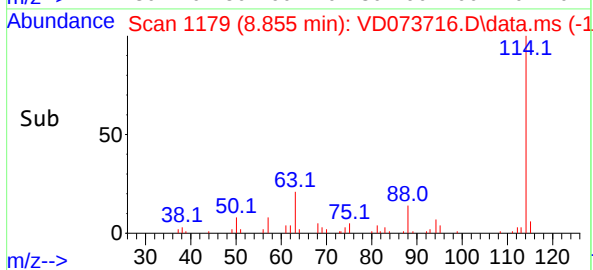
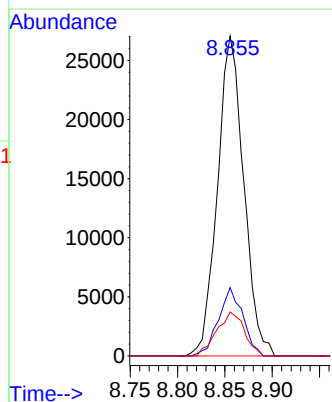
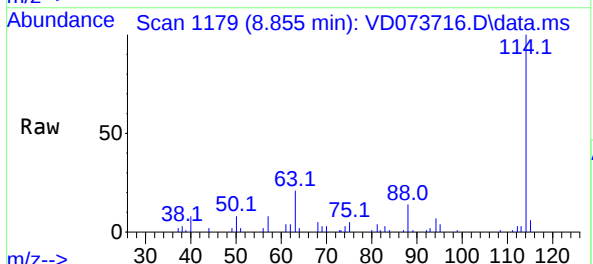
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SP-EXC-2-3

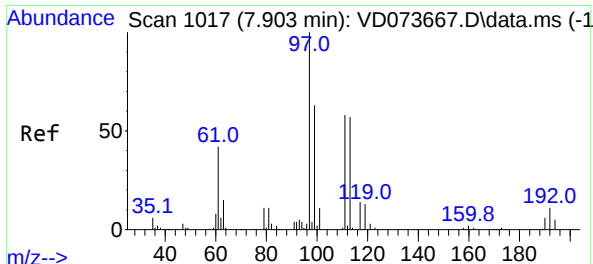
Tgt Ion: 65 Resp: 25317
Ion Ratio Lower Upper
65 100
67 54.5 0.0 107.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1179
Delta R.T. -0.000 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Tgt Ion:114 Resp: 52241
Ion Ratio Lower Upper
114 100
63 21.3 0.0 39.2
88 13.7 0.0 29.4





#35

Dibromofluoromethane

Concen: 51.966 ug/l

RT: 7.908 min Scan# 1017

Delta R.T. 0.006 min

Lab File: VD073716.D

Acq: 25 Jun 2022 18:28

Instrument :

MSVOA_D

ClientSampleId :

SP-EXC-2-3

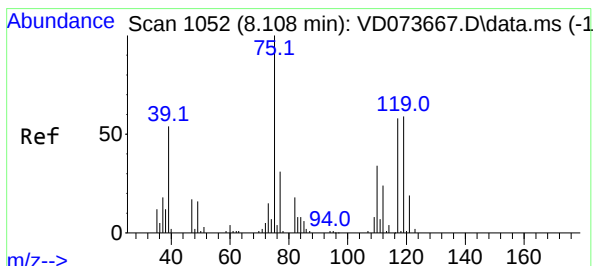
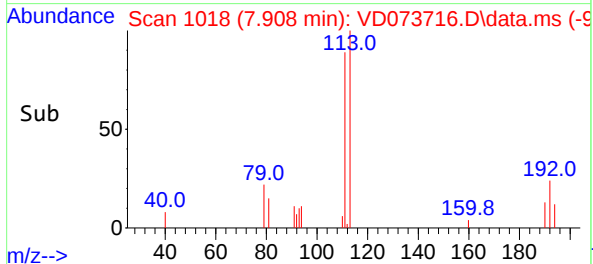
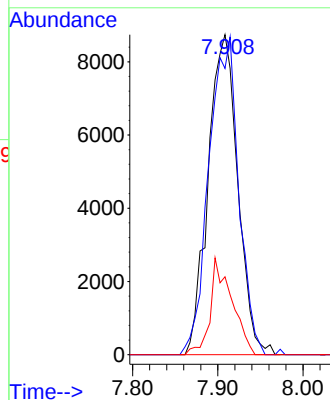
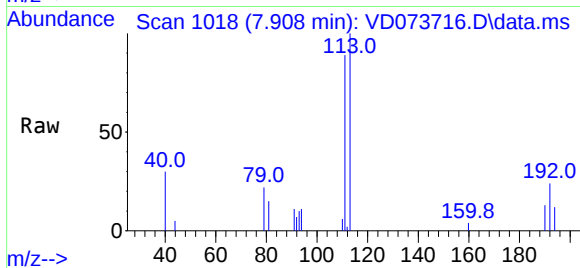
Tgt Ion:113 Resp: 21148

Ion Ratio Lower Upper

113 100

111 99.5 81.8 122.6

192 22.1 14.8 22.2



#36

1,1-Dichloropropene

Concen: 3.800 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.141 min

Lab File: VD073716.D

Acq: 25 Jun 2022 18:28

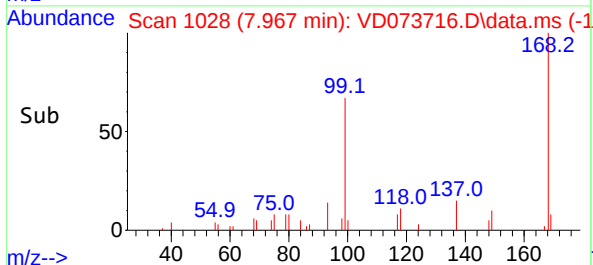
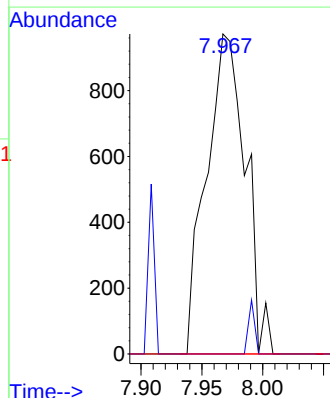
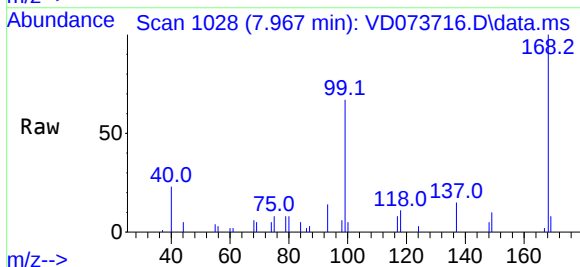
Tgt Ion: 75 Resp: 2171

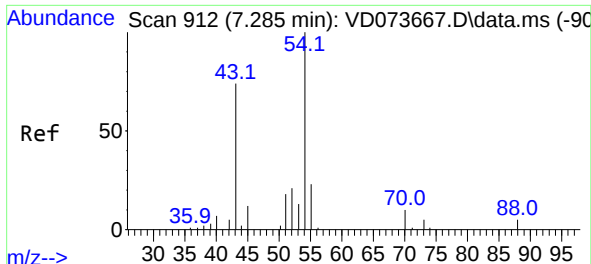
Ion Ratio Lower Upper

75 100

110 0.0 18.0 54.0#

77 0.0 25.6 38.4#





#37

Ethyl Acetate

Concen: 9.634 ug/l

RT: 7.208 min Scan# 899

Delta R.T. -0.077 min

Lab File: VD073716.D

Acq: 25 Jun 2022 18:28

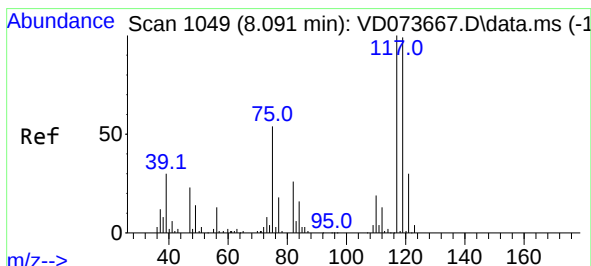
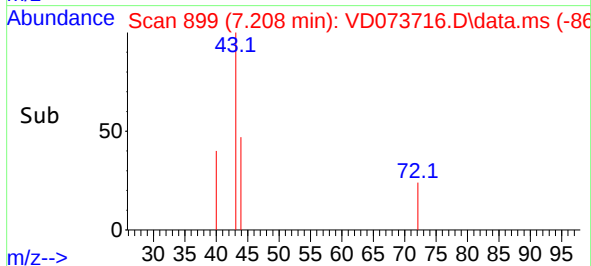
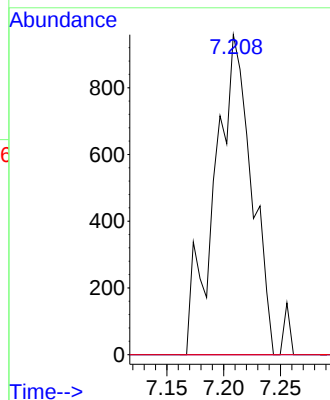
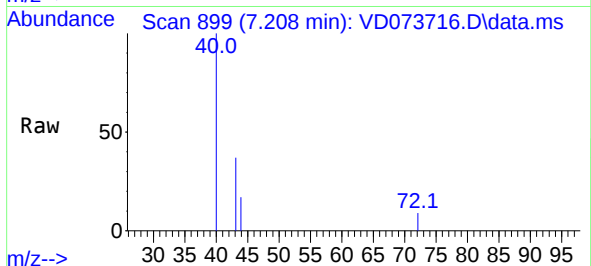
Instrument :

MSVOA_D

ClientSampleId :

SP-EXC-2-3

Tgt Ion:	43	Resp:	2160
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.6	16.0#
70	0.0	9.9	14.9#



#38

Carbon Tetrachloride

Concen: 4.697 ug/l

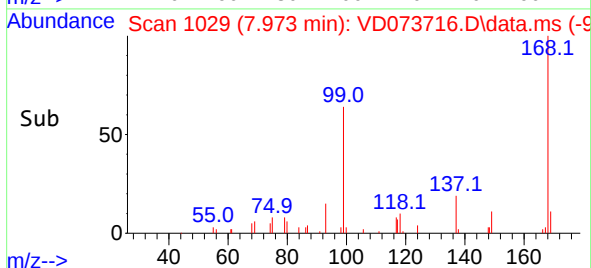
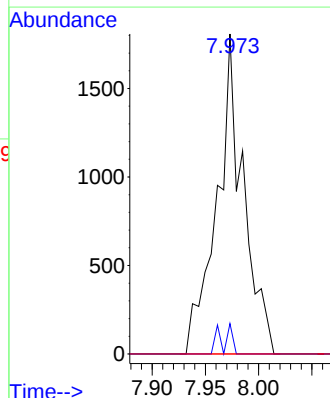
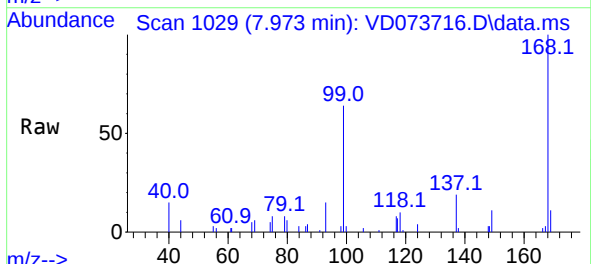
RT: 7.973 min Scan# 1029

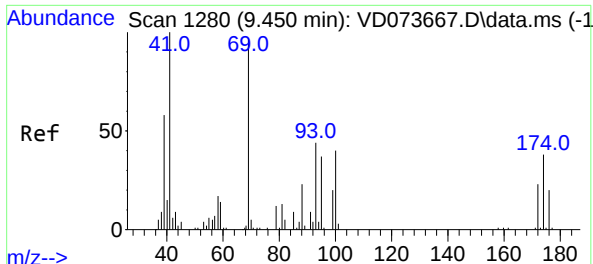
Delta R.T. -0.118 min

Lab File: VD073716.D

Acq: 25 Jun 2022 18:28

Tgt Ion:	117	Resp:	3124
Ion	Ratio	Lower	Upper
117	100		
119	9.5	79.2	118.8#
121	0.0	23.8	35.8#





#48

Methyl methacrylate

Concen: 1.303 ug/l

RT: 9.444 min Scan# 1

Delta R.T. -0.006 min

Lab File: VD073716.D

Acq: 25 Jun 2022 18:28

Instrument :

MSVOA_D

ClientSampleId :

SP-EXC-2-3

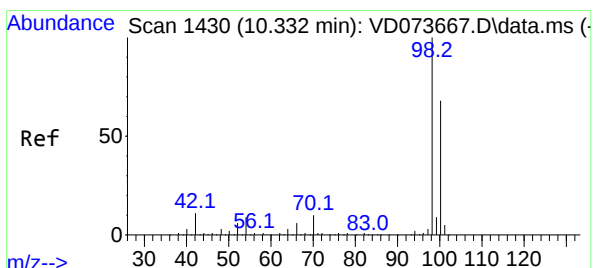
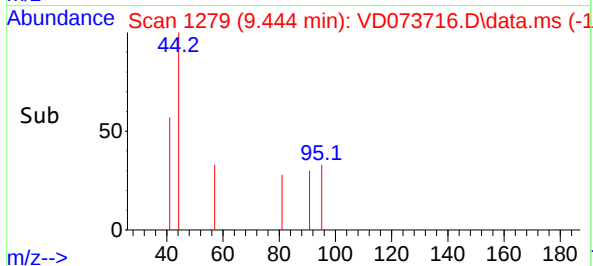
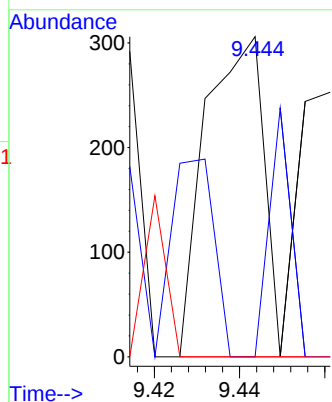
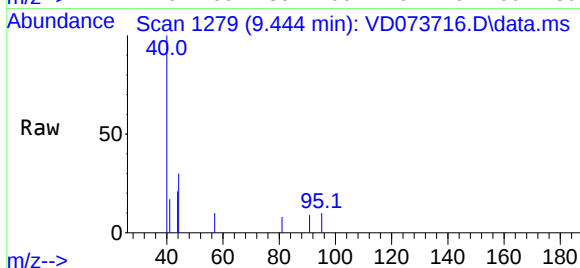
Tgt Ion: 41 Resp: 291

Ion Ratio Lower Upper

41 100

69 28.9 69.6 104.4#

39 0.0 45.5 68.3#



#50

Toluene-d8

Concen: 49.819 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VD073716.D

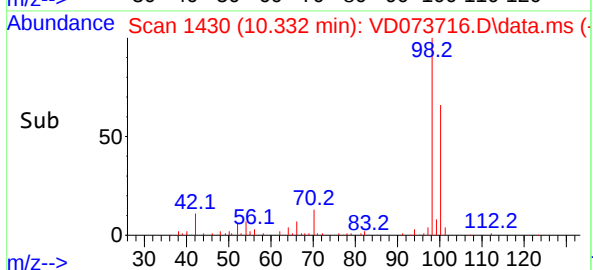
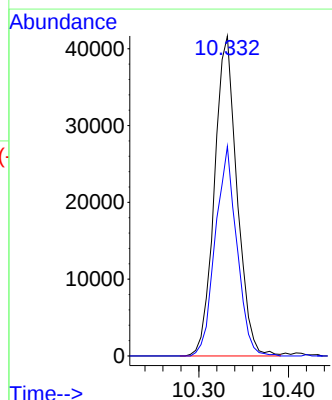
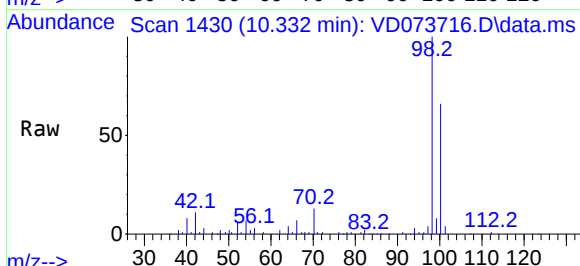
Acq: 25 Jun 2022 18:28

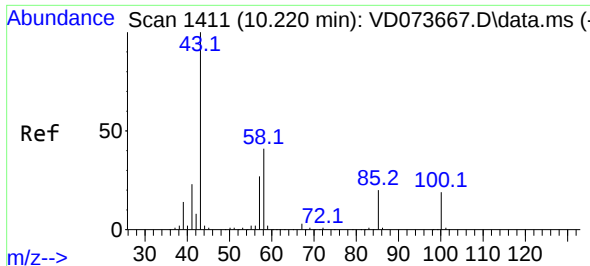
Tgt Ion: 98 Resp: 72795

Ion Ratio Lower Upper

98 100

100 62.5 54.0 81.0

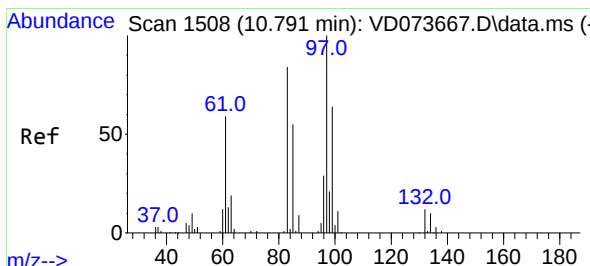
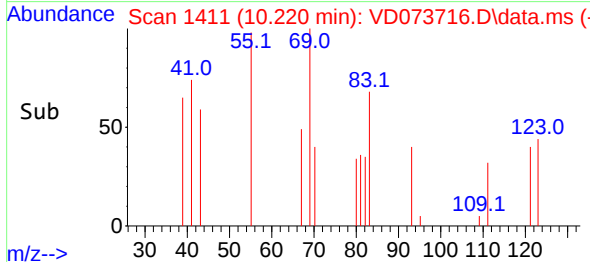
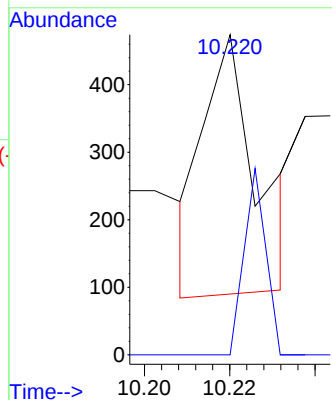
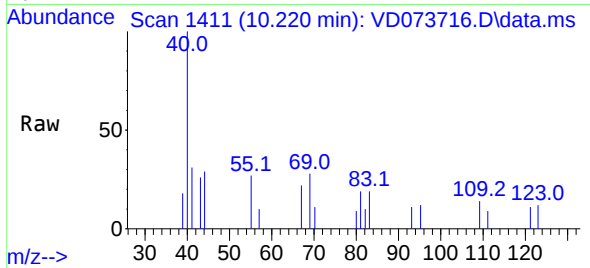




#51
4-Methyl-2-Pentanone
Concen: 1.482 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. -0.000 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

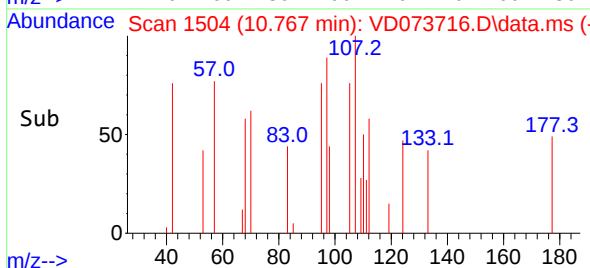
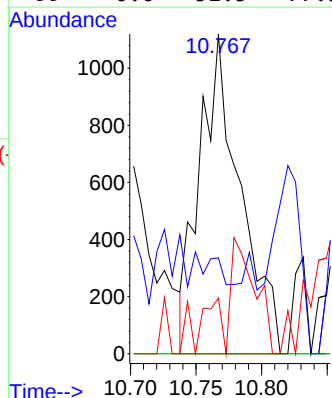
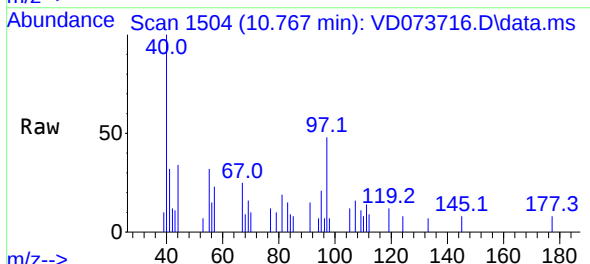
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-3

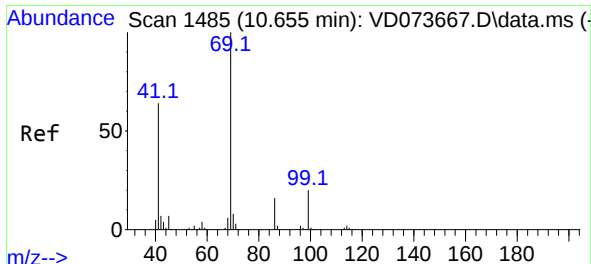
Tgt Ion: 43 Resp: 335
Ion Ratio Lower Upper
43 100
58 29.0 32.3 48.5#



#55
1,1,2-Trichloroethane
Concen: 7.109 ug/l
RT: 10.767 min Scan# 1504
Delta R.T. -0.024 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Tgt Ion: 97 Resp: 2412
Ion Ratio Lower Upper
97 100
83 0.0 67.1 100.7#
85 17.4 44.0 66.0#
99 0.0 51.5 77.3#

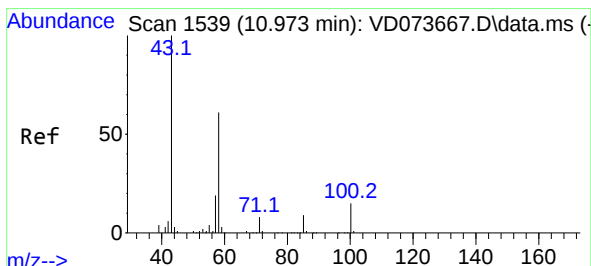
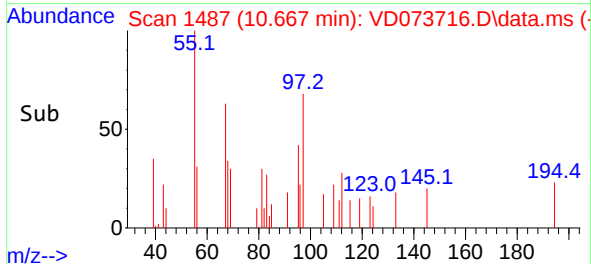
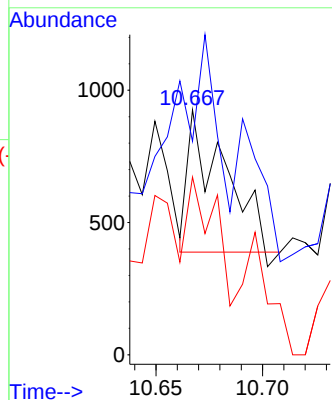
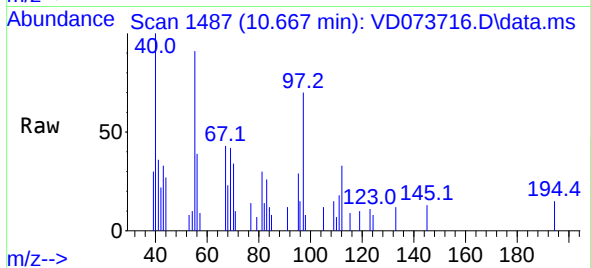




#56
Ethyl methacrylate
Concen: 1.663 ug/l
RT: 10.667 min Scan# 1487
Delta R.T. 0.012 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

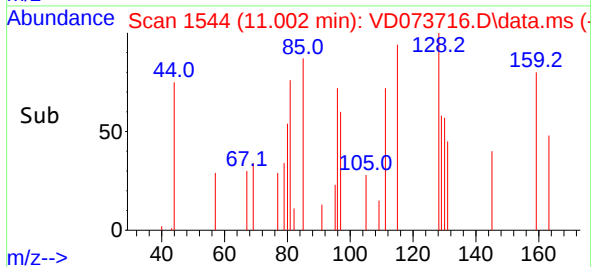
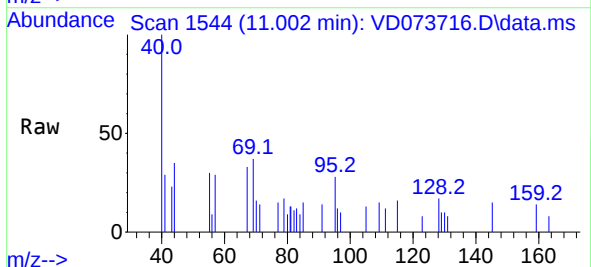
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-3

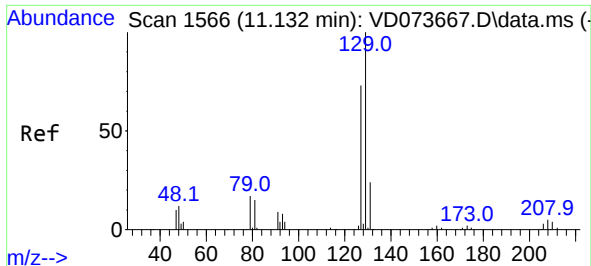
Tgt Ion: 69 Resp: 636
Ion Ratio Lower Upper
69 100
41 238.5 51.6 77.4#
39 54.6 29.2 43.8#



#59
2-Hexanone
Concen: 1.500 ug/l
RT: 11.002 min Scan# 1544
Delta R.T. 0.029 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Tgt Ion: 43 Resp: 229
Ion Ratio Lower Upper
43 100
58 0.0 28.8 86.4#

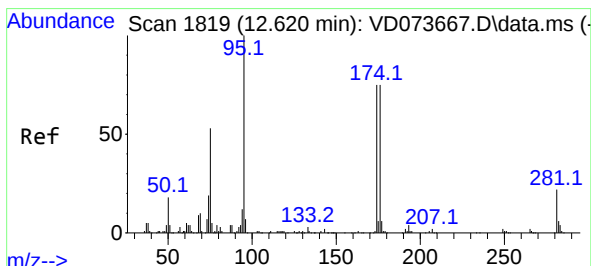
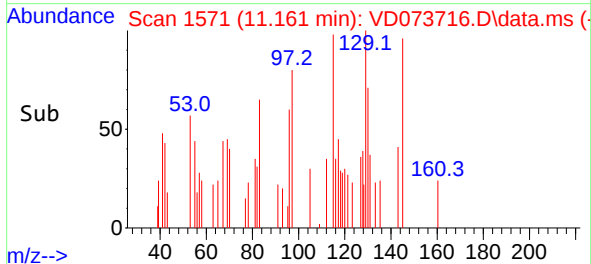
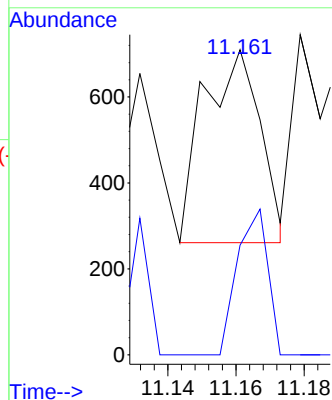
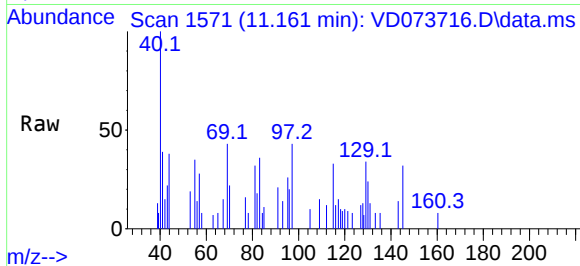




#60
Dibromochloromethane
Concen: 1.161 ug/l
RT: 11.161 min Scan# 11
Delta R.T. 0.029 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

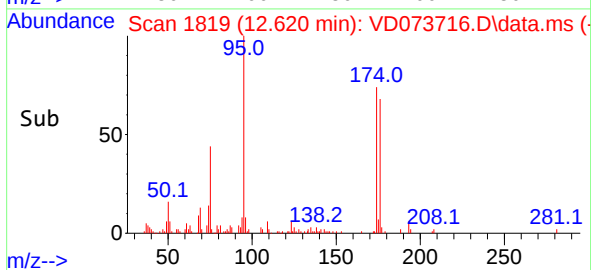
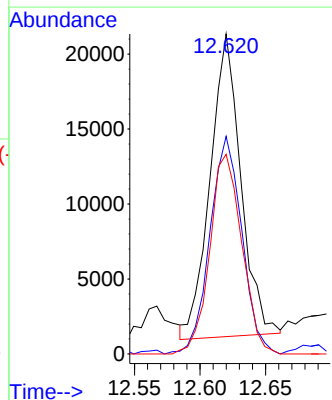
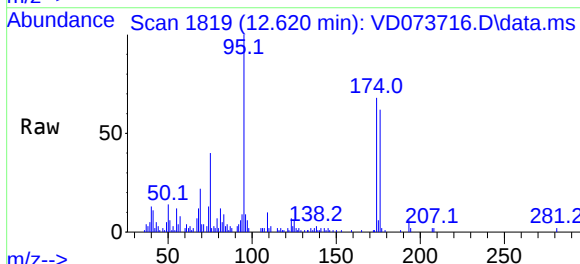
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-3

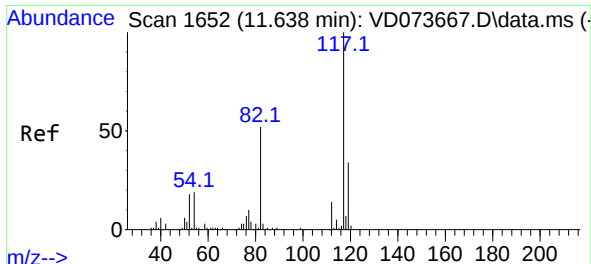
Tgt Ion:129 Resp: 519
Ion Ratio Lower Upper
129 100
127 40.5 36.8 110.4



#62
4-Bromofluorobenzene
Concen: 59.804 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Tgt Ion: 95 Resp: 32775
Ion Ratio Lower Upper
95 100
174 74.9 0.0 158.4
176 68.9 0.0 154.8

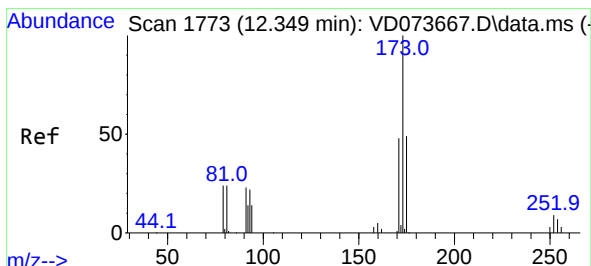
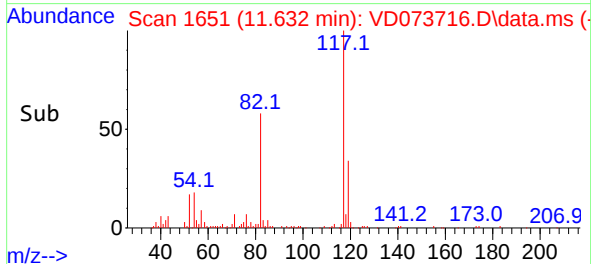
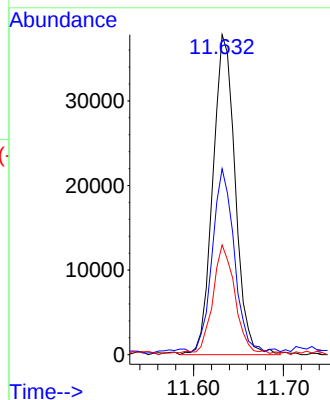
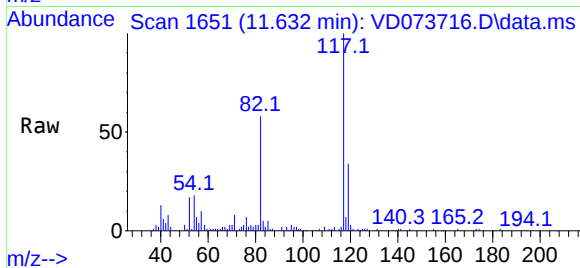




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 117
Delta R.T. -0.006 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

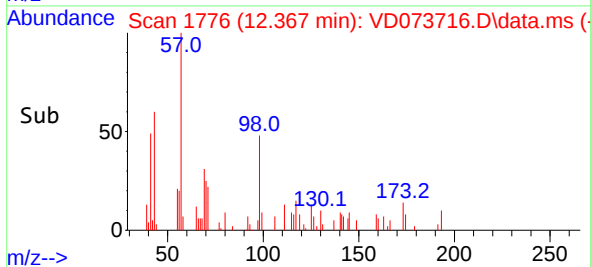
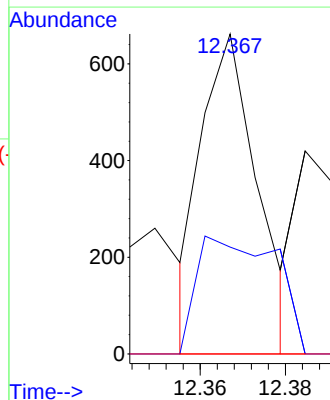
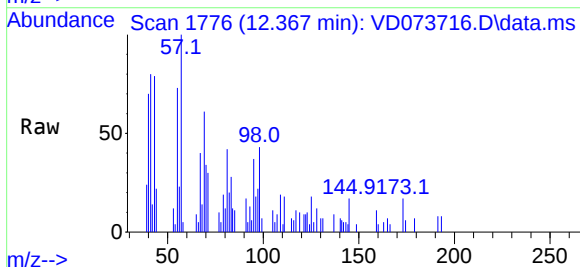
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-3

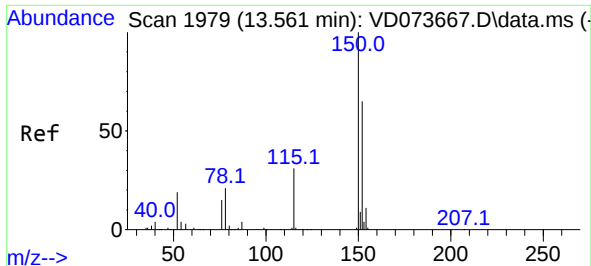
Tgt Ion:	117	Resp:	65475
Ion	Ratio	Lower	Upper
117	100		
82	57.2	41.5	62.3
119	33.7	27.1	40.7



#71
Bromoform
Concen: 1.712 ug/l
RT: 12.367 min Scan# 1776
Delta R.T. 0.018 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Tgt Ion:	173	Resp:	600
Ion	Ratio	Lower	Upper
173	100		
175	52.0	24.0	72.0
254	0.0	0.0	0.0

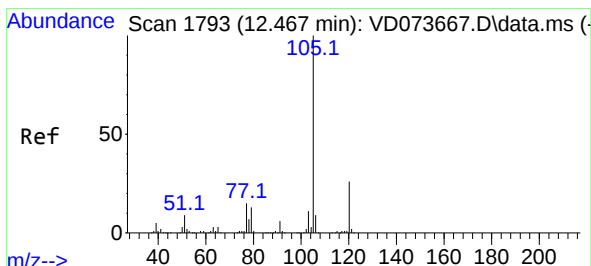
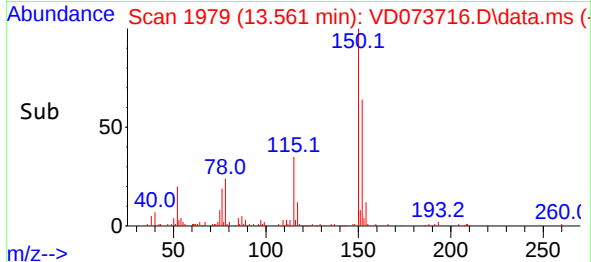
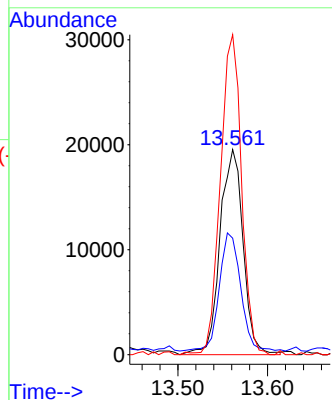
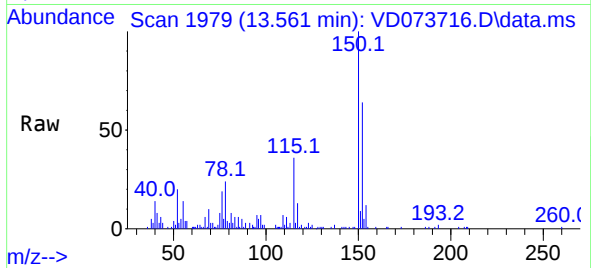




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1799
Delta R.T. -0.000 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

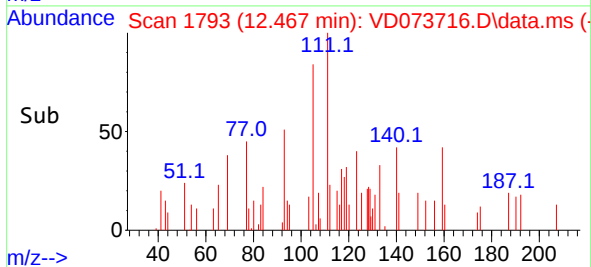
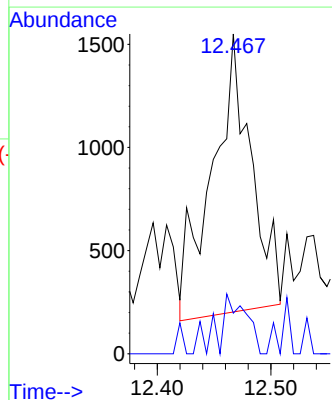
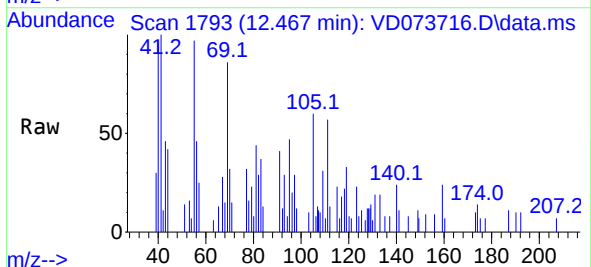
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-3

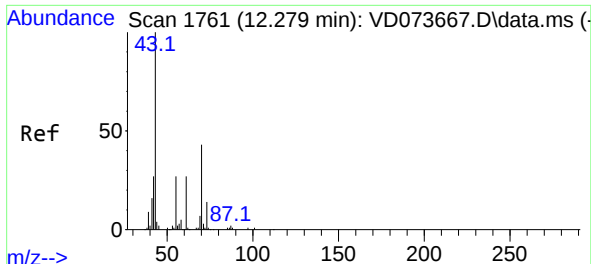
Tgt Ion:152 Resp: 34956
Ion Ratio Lower Upper
152 100
115 54.2 30.6 91.6
150 142.8 0.0 355.0



#73
Isopropylbenzene
Concen: 1.126 ug/l
RT: 12.467 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Tgt Ion:105 Resp: 3213
Ion Ratio Lower Upper
105 100
120 13.8 13.2 39.6



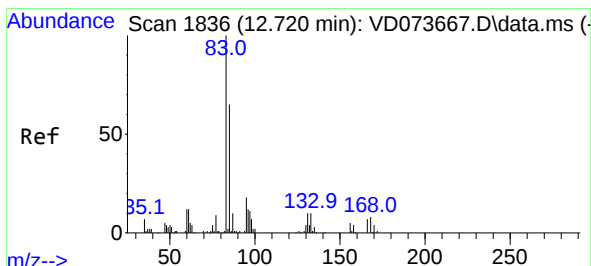
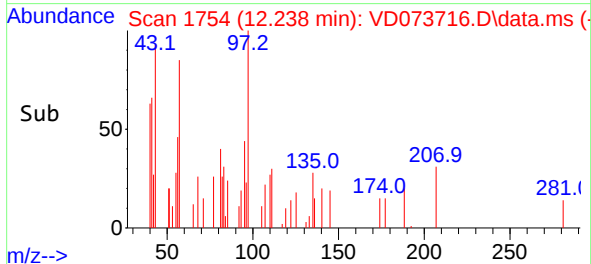
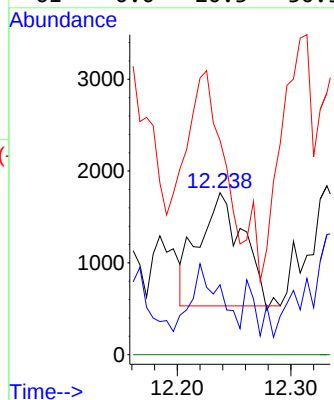
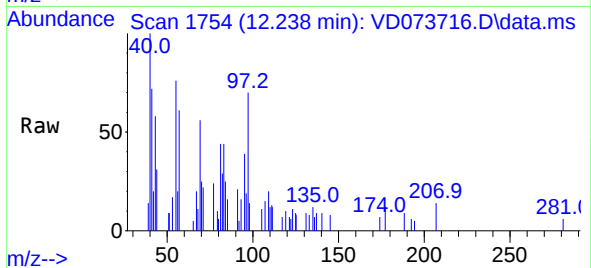


#74
N-amy1 acetate
Concen: 5.689 ug/l
RT: 12.238 min Scan# 11
Delta R.T. -0.041 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-3

Tgt Ion: 43 Resp: 3323

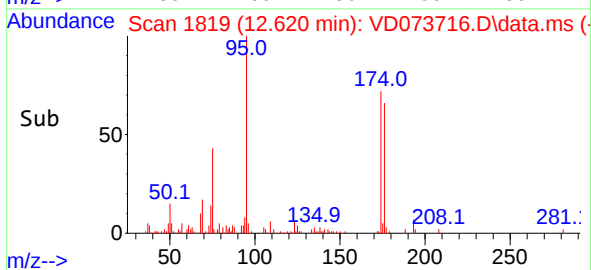
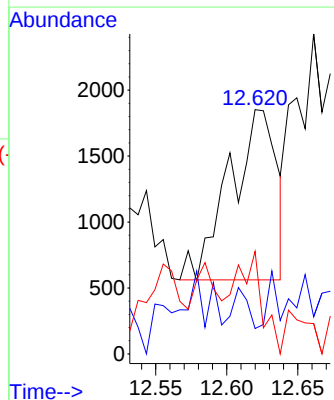
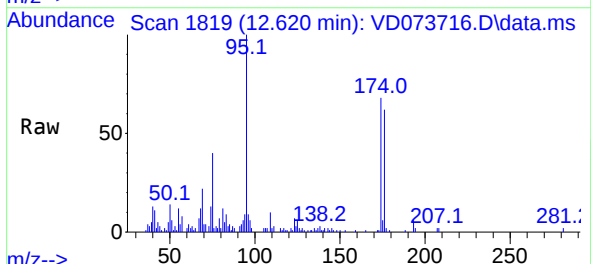
Ion	Ratio	Lower	Upper
43	100		
70	36.1	35.0	52.6
55	180.3	21.0	31.4#
61	0.0	20.3	30.5#

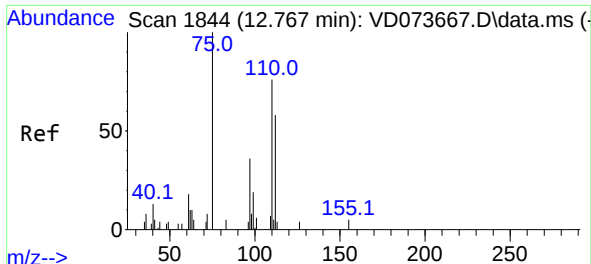


#75
1,1,2,2-Tetrachloroethane
Concen: 5.498 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.100 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Tgt Ion: 83 Resp: 2961

Ion	Ratio	Lower	Upper
83	100		
131	6.2	5.5	16.7
85	34.9	32.3	96.9

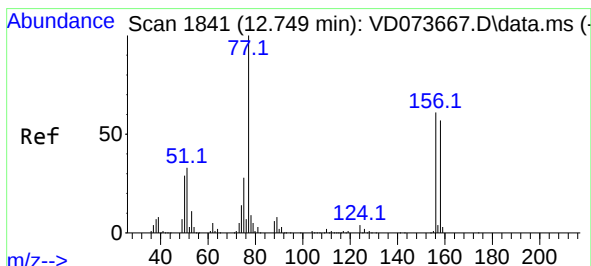
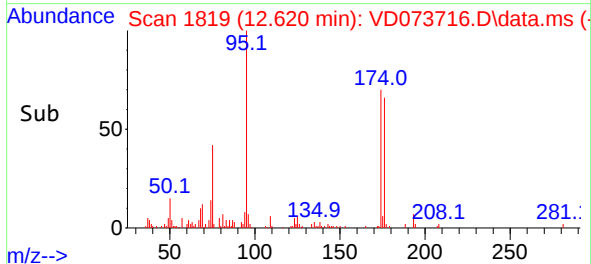
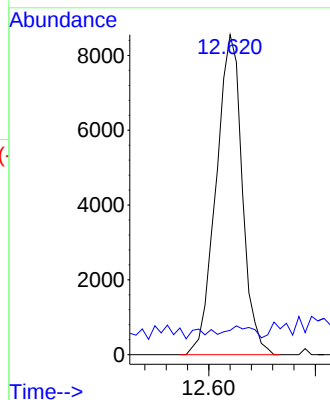
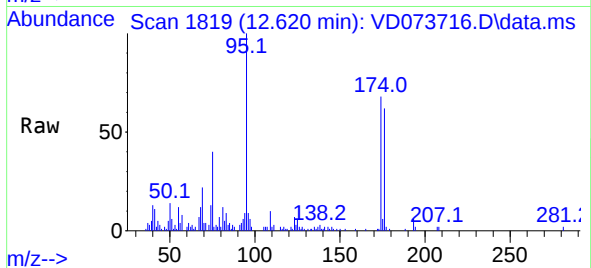




#76
1,2,3-Trichloropropane
Concen: 42.693 ug/l
RT: 12.620 min Scan# 1863
Delta R.T. -0.147 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

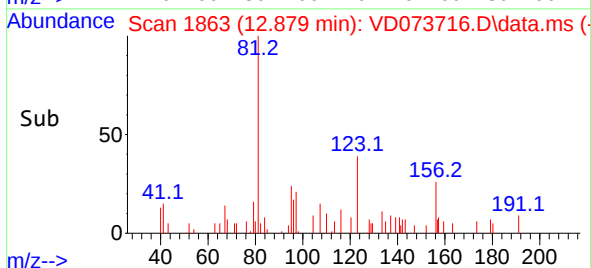
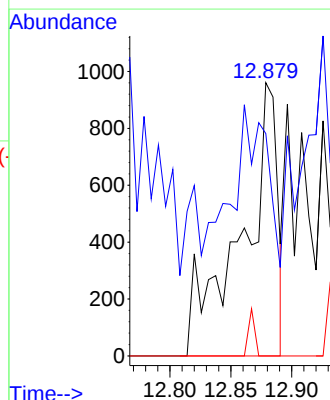
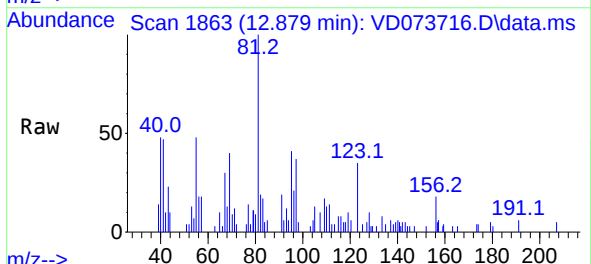
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-3

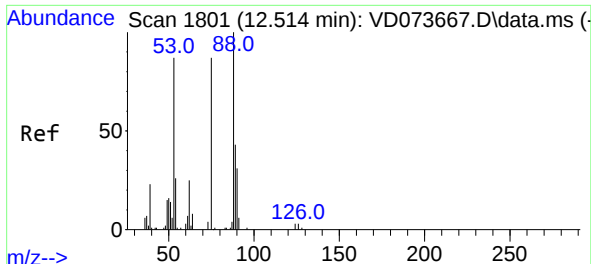
Tgt Ion: 75 Resp: 14523
Ion Ratio Lower Upper
75 100
77 3.7 195.3 586.0#



#77
Bromobenzene
Concen: 2.851 ug/l
RT: 12.879 min Scan# 1863
Delta R.T. 0.129 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Tgt Ion:156 Resp: 1957
Ion Ratio Lower Upper
156 100
77 53.1 90.9 272.7#
158 3.0 48.4 145.2#

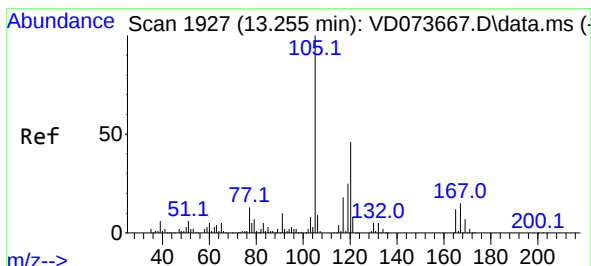
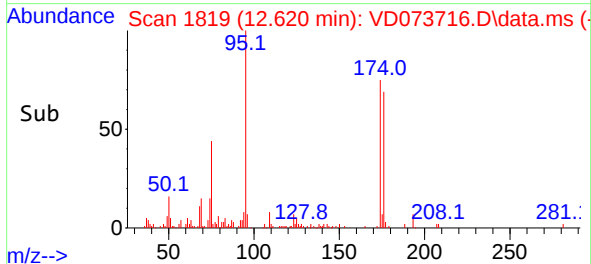
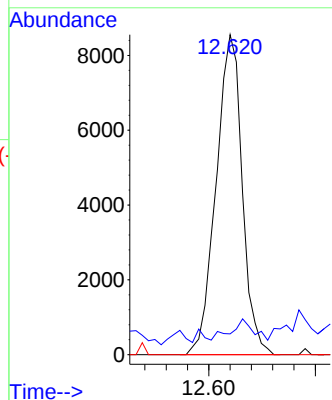
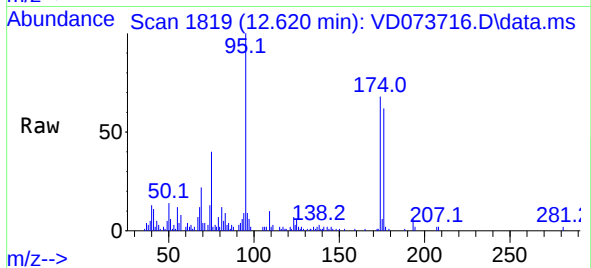




#81
trans-1,4-Dichloro-2-butene
Concen: 87.160 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

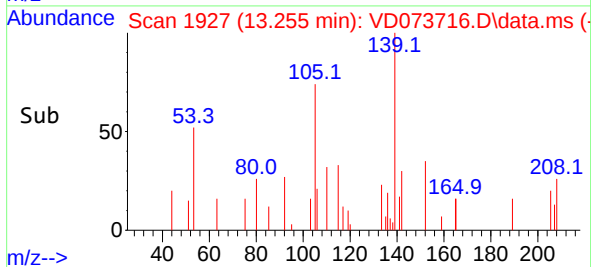
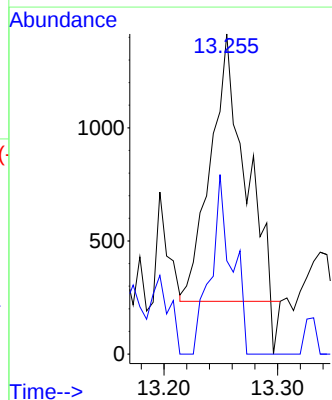
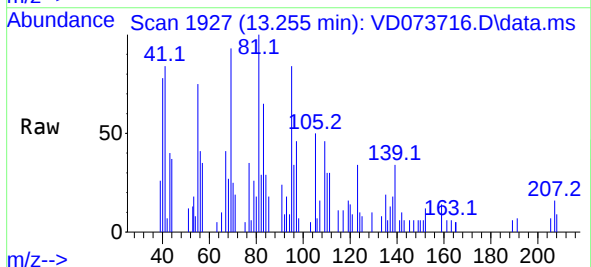
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-3

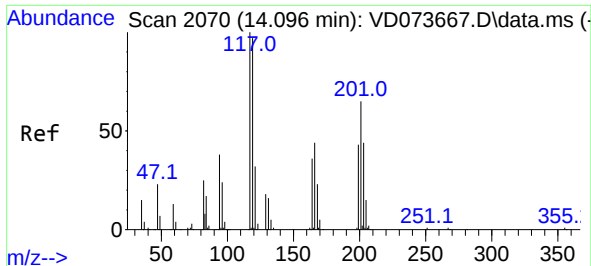
Tgt Ion: 75 Resp: 14523
Ion Ratio Lower Upper
75 100
53 5.4 77.0 115.6#
89 0.0 37.8 56.8#



#84
1,2,4-Trimethylbenzene
Concen: 1.001 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. -0.000 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Tgt Ion: 105 Resp: 2406
Ion Ratio Lower Upper
105 100
120 42.8 22.6 67.8

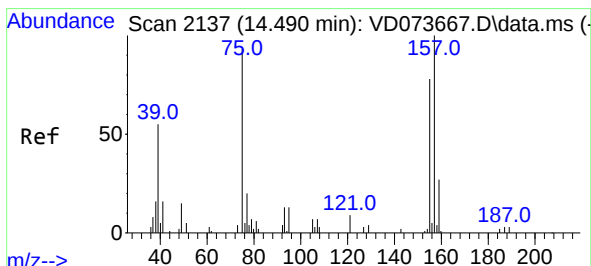
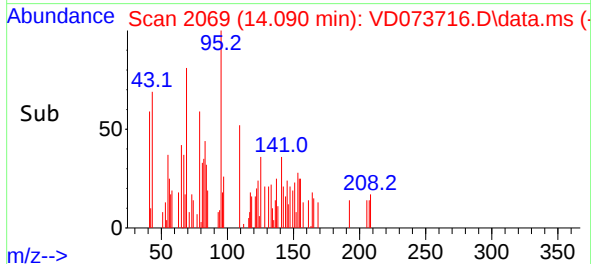
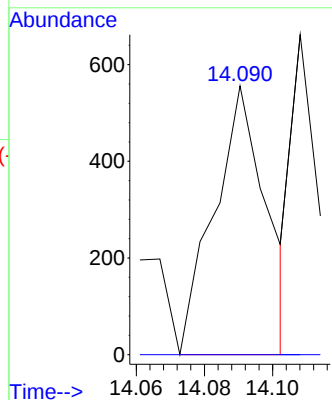
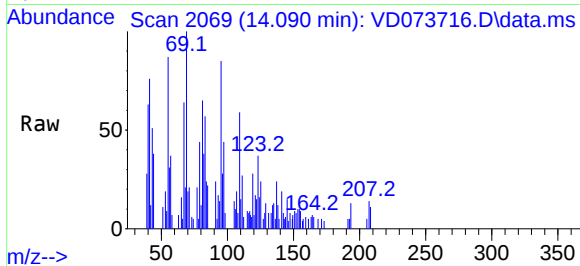




#90
Hexachloroethane
Concen: 1.089 ug/l
RT: 14.090 min Scan# 2070
Delta R.T. -0.006 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

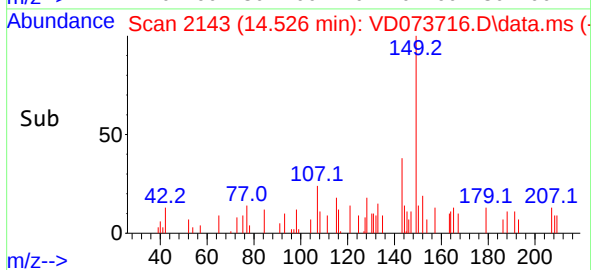
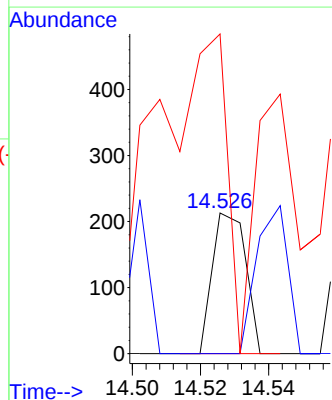
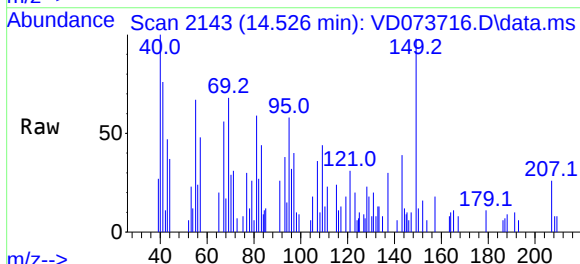
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-3

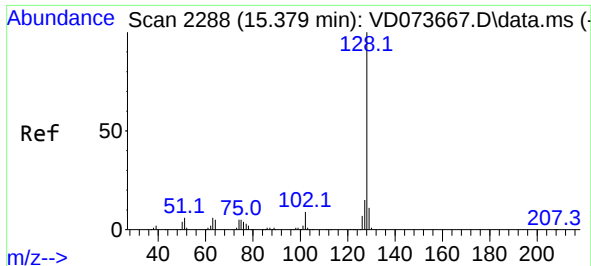
Tgt Ion:117 Resp: 591
Ion Ratio Lower Upper
117 100
201 0.0 33.8 101.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.613 ug/l
RT: 14.526 min Scan# 2143
Delta R.T. 0.035 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

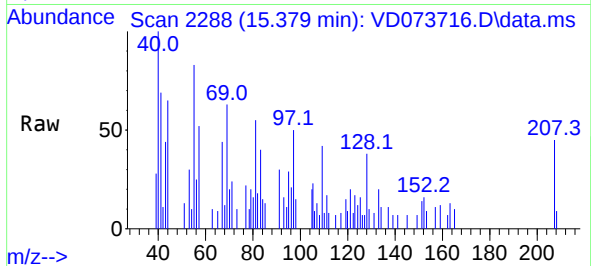
Tgt Ion: 75 Resp: 145
Ion Ratio Lower Upper
75 100
155 0.0 41.2 123.6#
157 531.0 55.5 166.5#





#95
Naphthalene
Concen: 1.003 ug/l
RT: 15.379 min Scan# 21
Delta R.T. -0.000 min
Lab File: VD073716.D
Acq: 25 Jun 2022 18:28

Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-3



Tgt Ion:128 Resp: 1317
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 27.2 8.9 13.3#

