

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122921\
 Data File : VD071523.D
 Acq On : 29 Dec 2021 12:37
 Operator : VA/SY
 Sample : M5230-03
 Misc : 5.45G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PSC124055

Quant Time: Dec 29 15:27:32 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)

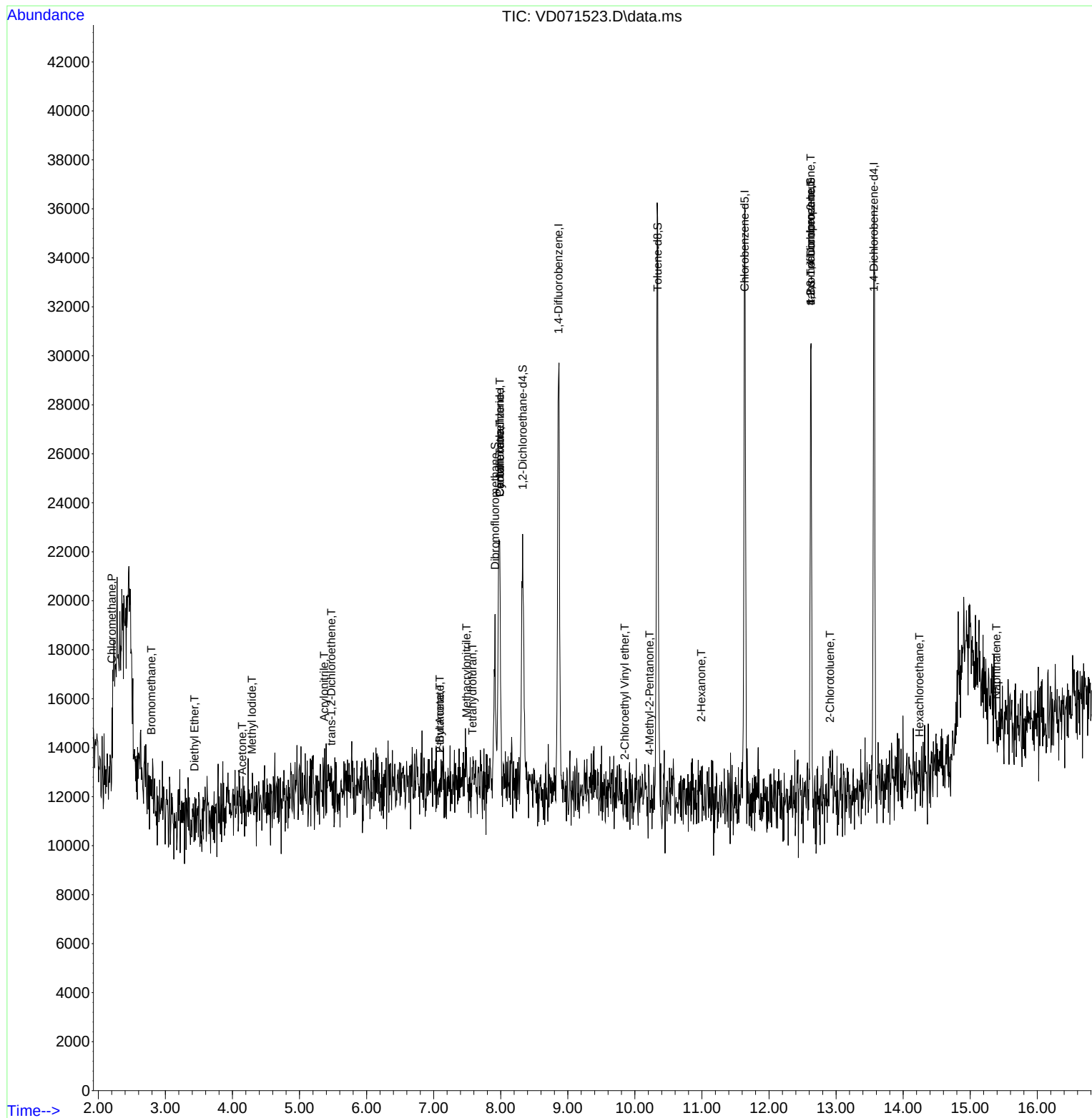
Internal Standards						
1) Pentafluorobenzene	7.985	168	7709	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.861	114	14085	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	12123	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	5721	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	7543	73.675	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 147.340%	
35) Dibromofluoromethane	7.914	113	3695	39.034	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 78.060%	
50) Toluene-d8	10.338	98	16511	46.155	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 92.300%	
62) 4-Bromofluorobenzene	12.620	95	5772	45.406	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 90.820%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.203	50	315	3.045	ug/l #	42
5) Bromomethane	2.791	94	355	4.094	ug/l #	72
8) Diethyl Ether	3.432	74	68	1.565	ug/l	90
10) Methyl Iodide	4.291	142	157	1.829	ug/l #	88
15) Acrylonitrile	5.368	53	60	2.805	ug/l #	19
16) Acetone	4.144	43	68	2.644	ug/l #	40
20) Methylene Chloride	4.973	84	229	Below Cal	#	7
21) trans-1,2-Dichloroethene	5.473	96	178	1.913	ug/l #	1
25) 2-Butanone	7.091	43	76	2.474	ug/l #	45
29) Tetrahydrofuran	7.579	42	56	3.036	ug/l #	34
31) Cyclohexane	7.985	56	201	1.156	ug/l #	63
37) Ethyl Acetate	7.091	43	76	1.089	ug/l #	66
38) Carbon Tetrachloride	7.985	117	881	5.905	ug/l #	12
41) Methacrylonitrile	7.491	41	70	1.688	ug/l #	1
51) 4-Methyl-2-Pentanone	10.220	43	187	2.565	ug/l #	34
58) 2-Chloroethyl Vinyl ether	9.850	63	72	1.544	ug/l #	49
59) 2-Hexanone	10.991	43	198	3.843	ug/l	92
76) 1,2,3-Trichloropropane	12.620	75	3414	50.224	ug/l #	1
79) 2-Chlorotoluene	12.908	91	365	1.181	ug/l #	42
81) trans-1,4-Dichloro-2-b...	12.620	75	3414	141.909	ug/l #	18
90) Hexachloroethane	14.244	117	135	1.812	ug/l #	14
95) Naphthalene	15.391	128	593	3.048	ug/l #	69

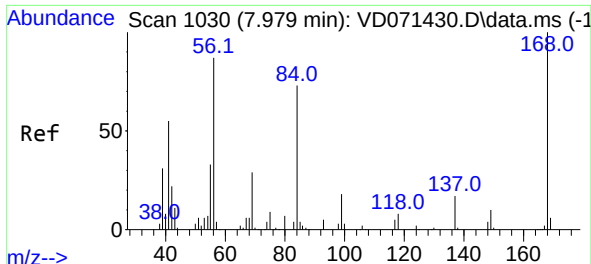
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

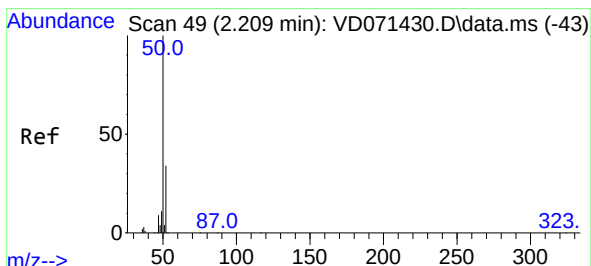
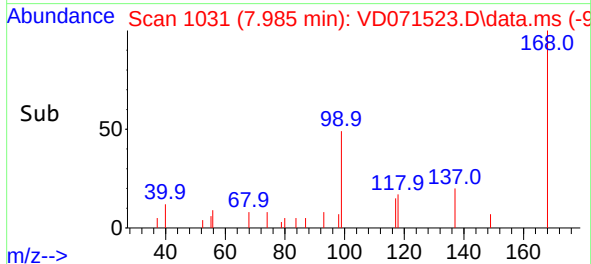
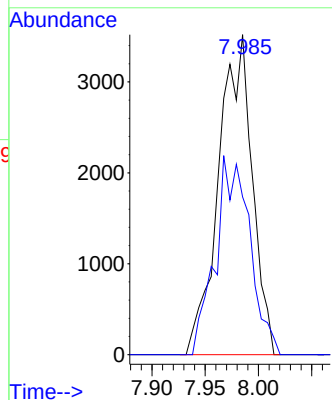
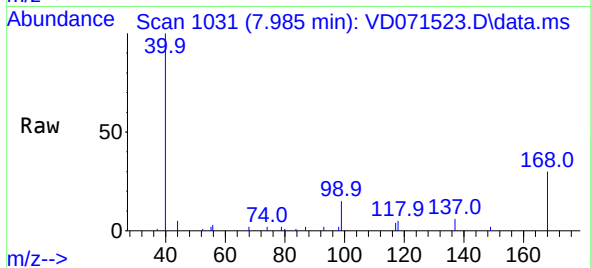




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.985 min Scan# 10
Delta R.T. 0.012 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

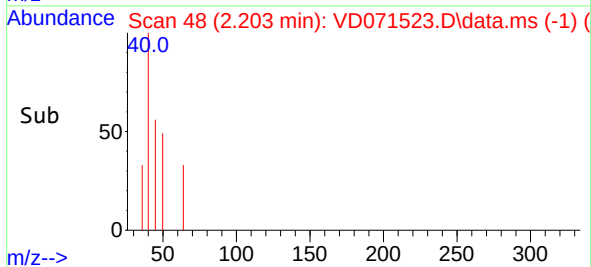
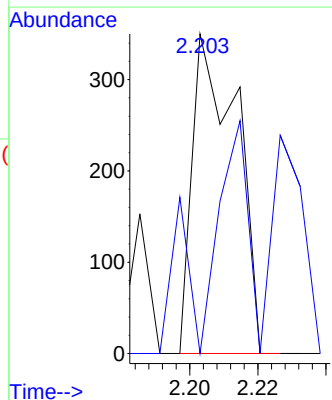
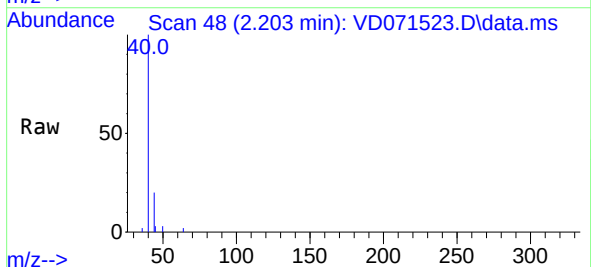
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MSVOA_D
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PSC124055

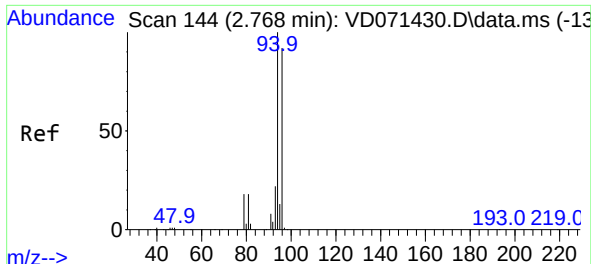
Tgt Ion:168 Resp: 7709
Ion Ratio Lower Upper
168 100
99 49.3 46.6 69.8



#3
Chloromethane
Concen: 3.045 ug/l
RT: 2.203 min Scan# 48
Delta R.T. -0.006 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion: 50 Resp: 315
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

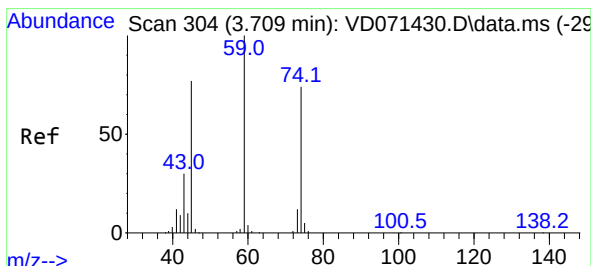
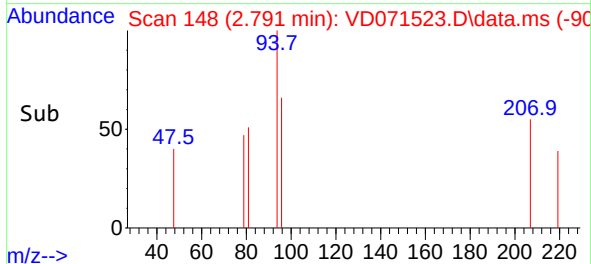
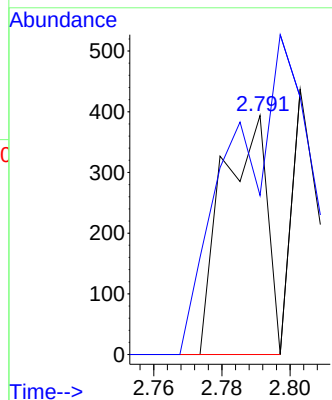
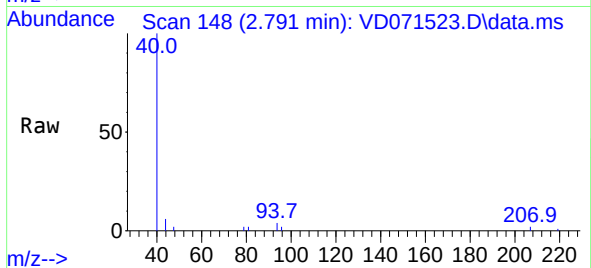




#5
Bromomethane
Concen: 4.094 ug/l
RT: 2.791 min Scan# 14
Delta R.T. 0.041 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

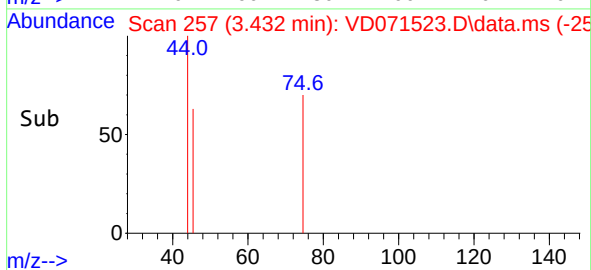
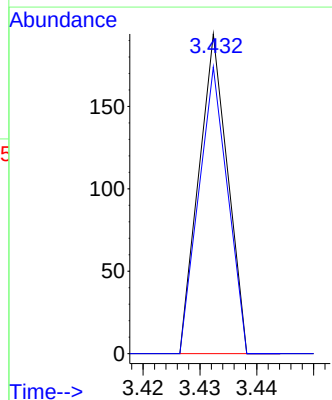
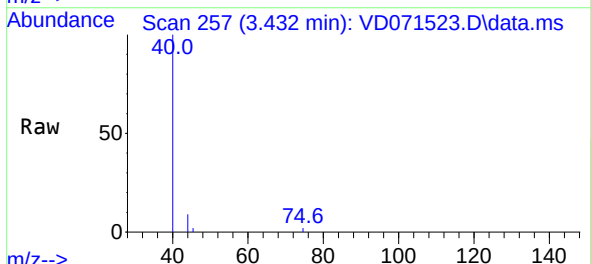
Instrument :
MSVOA_D
ClientSampleId :
PSC124055

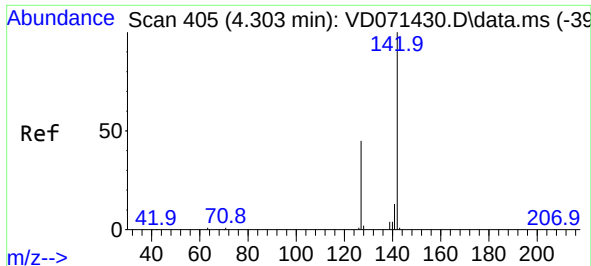
Tgt Ion: 94 Resp: 355
Ion Ratio Lower Upper
94 100
96 66.5 74.8 112.2#



#8
Diethyl Ether
Concen: 1.565 ug/l
RT: 3.432 min Scan# 257
Delta R.T. -0.277 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion: 74 Resp: 68
Ion Ratio Lower Upper
74 100
45 89.7 49.6 149.0

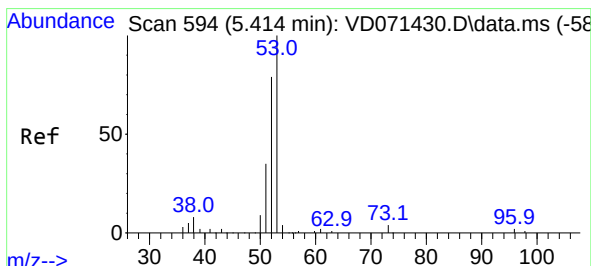
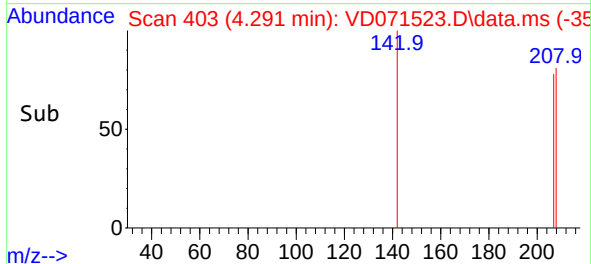
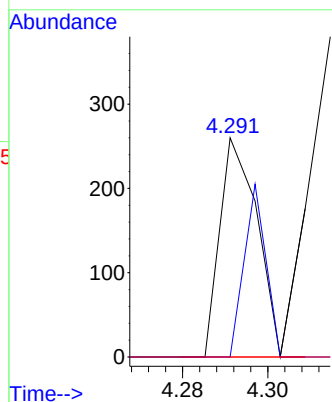
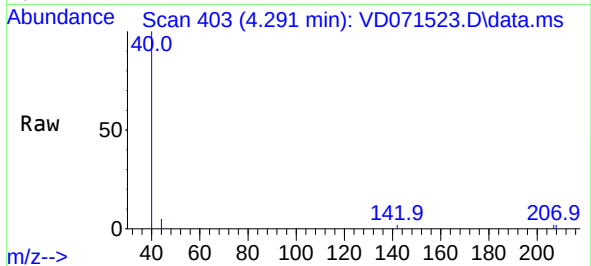




#10
Methyl Iodide
Concen: 1.829 ug/l
RT: 4.291 min Scan# 405
Delta R.T. -0.006 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

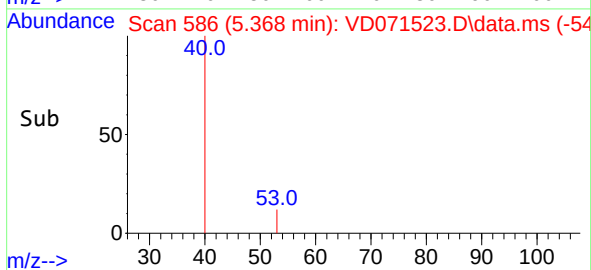
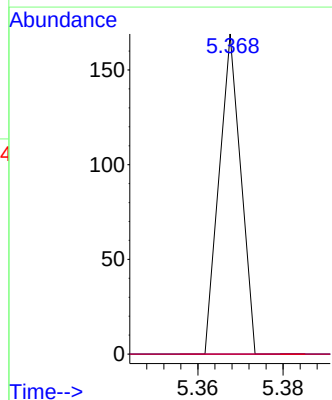
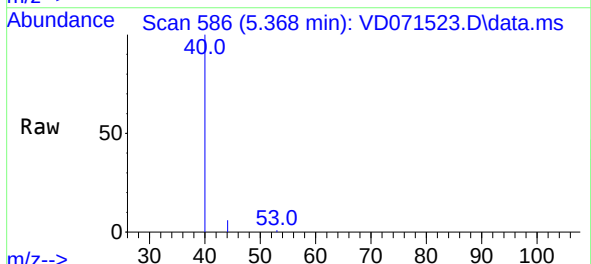
Instrument :
MSVOA_D
ClientSampleId :
PSC124055

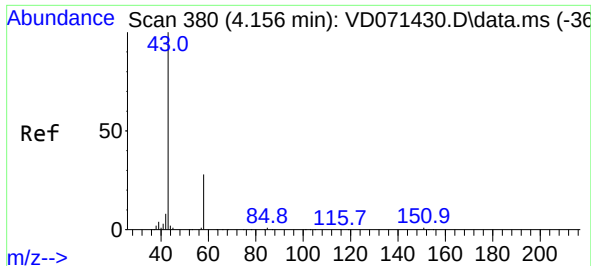
Tgt Ion:	142	Resp:	157
Ion	Ratio	Lower	Upper
142	100		
127	45.9	35.0	52.4
141	0.0	12.0	18.0



#15
Acrylonitrile
Concen: 2.805 ug/l
RT: 5.368 min Scan# 586
Delta R.T. -0.052 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion:	53	Resp:	60
Ion	Ratio	Lower	Upper
53	100		
52	0.0	63.8	95.8
51	0.0	28.5	42.7

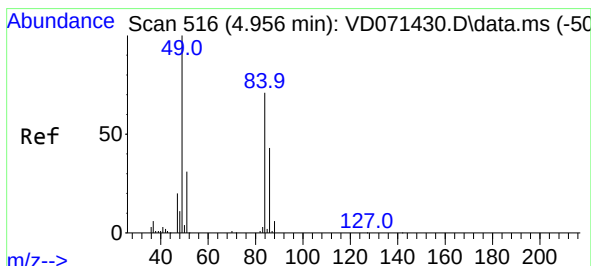
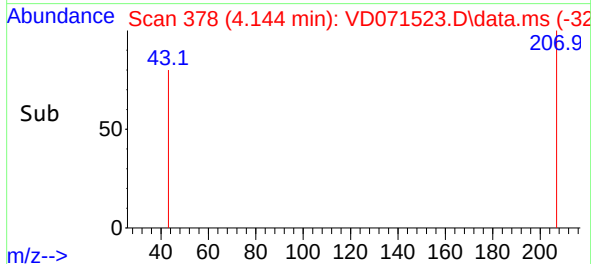
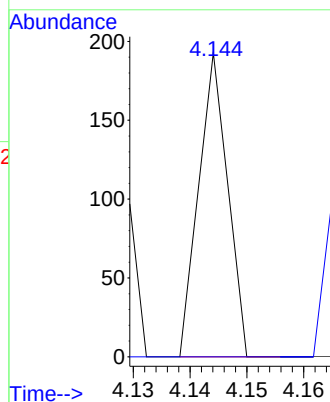
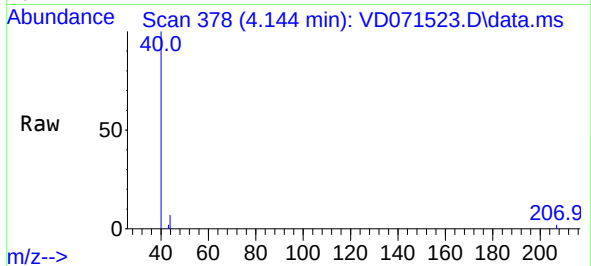




#16
Acetone
Concen: 2.644 ug/l
RT: 4.144 min Scan# 31
Delta R.T. -0.012 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

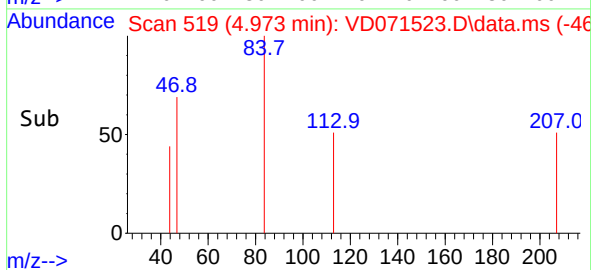
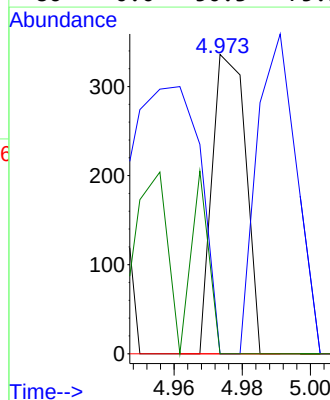
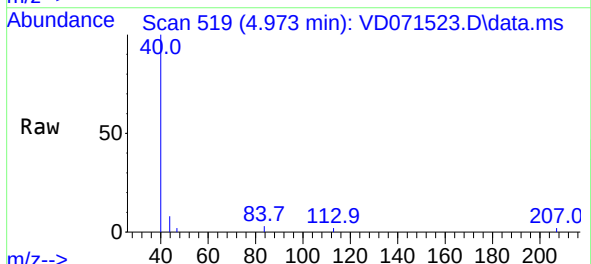
Instrument :
MSVOA_D
ClientSampleId :
PSC124055

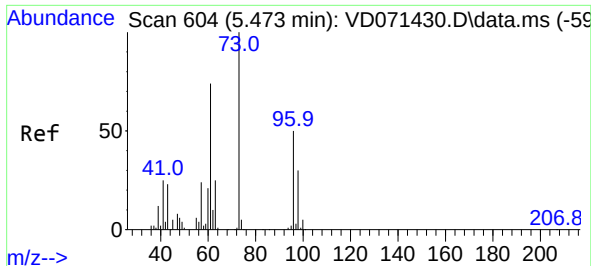
Tgt Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.973 min Scan# 519
Delta R.T. 0.012 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion: 84 Resp: 229
Ion Ratio Lower Upper
84 100
49 0.0 95.8 143.6#
51 0.0 30.9 46.3#
86 0.0 50.3 75.5#

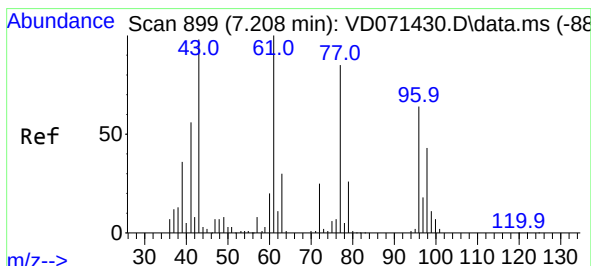
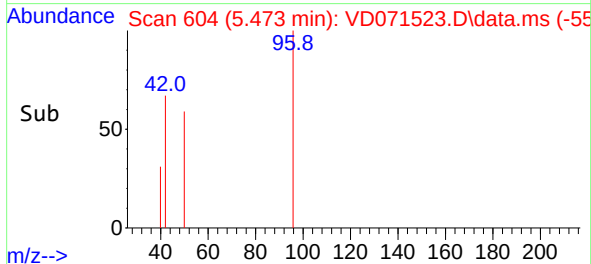
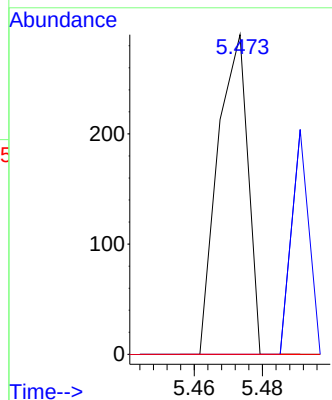
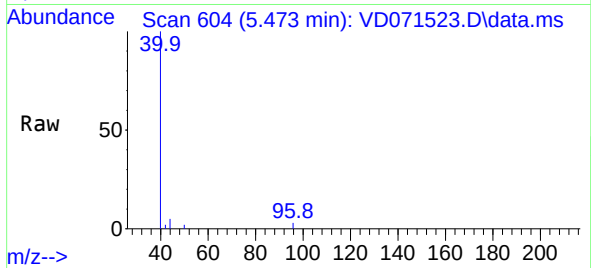




#21
trans-1,2-Dichloroethene
Concen: 1.913 ug/l
RT: 5.473 min Scan# 604
Delta R.T. 0.000 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

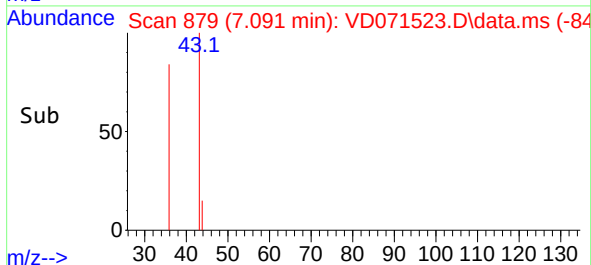
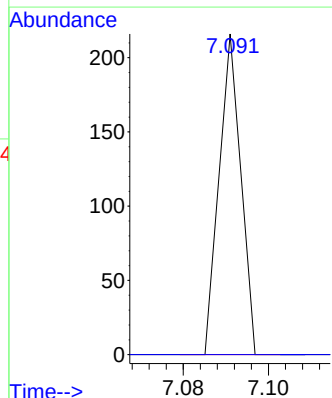
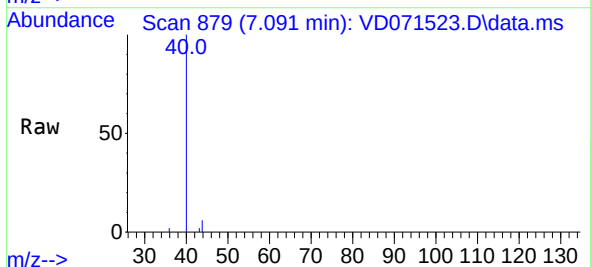
Instrument :
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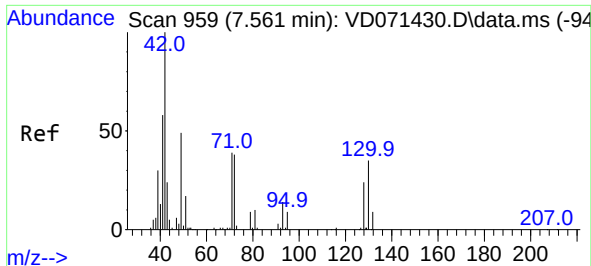
Tgt Ion: 96 Resp: 178
Ion Ratio Lower Upper
96 100
61 0.0 102.1 153.1#
98 0.0 50.1 75.1#



#25
2-Butanone
Concen: 2.474 ug/l
RT: 7.091 min Scan# 879
Delta R.T. -0.117 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion: 43 Resp: 76
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#





#29

Tetrahydrofuran

Concen: 3.036 ug/l

RT: 7.579 min Scan# 9

Delta R.T. 0.024 min

Lab File: VD071523.D

Acq: 29 Dec 2021 12:37

Instrument :

MSVOA_D

ClientSampleId :

PSC124055

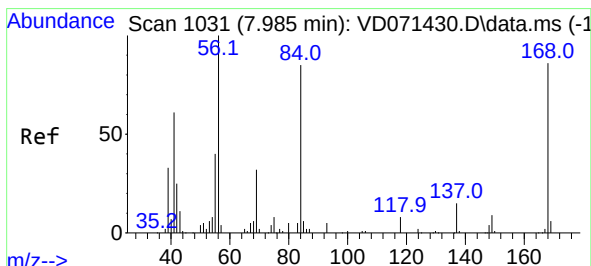
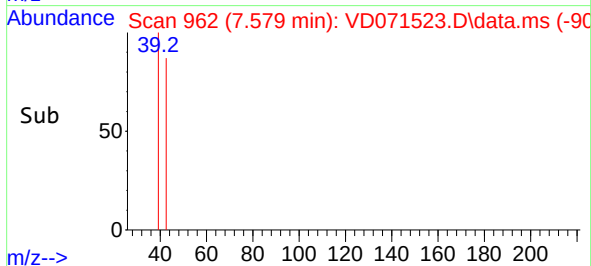
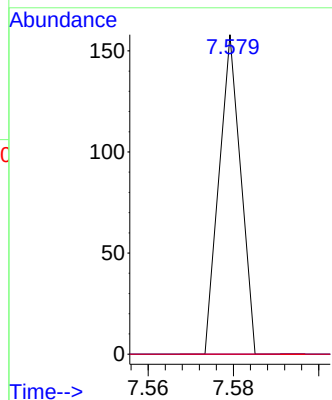
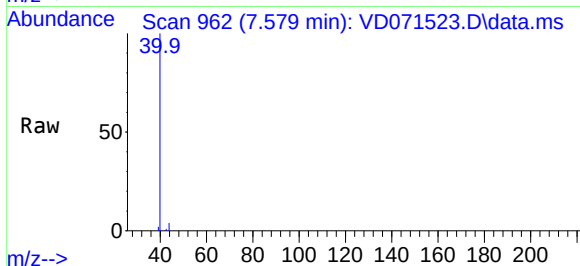
Tgt Ion: 42 Resp: 56

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.7 49.1#



#31

Cyclohexane

Concen: 1.156 ug/l

RT: 7.985 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VD071523.D

Acq: 29 Dec 2021 12:37

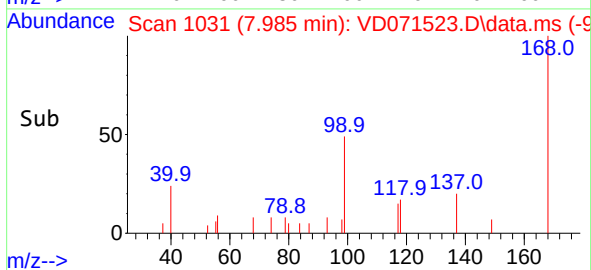
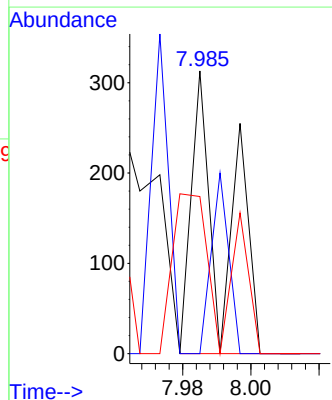
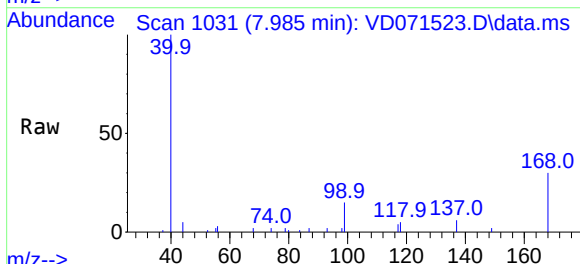
Tgt Ion: 56 Resp: 201

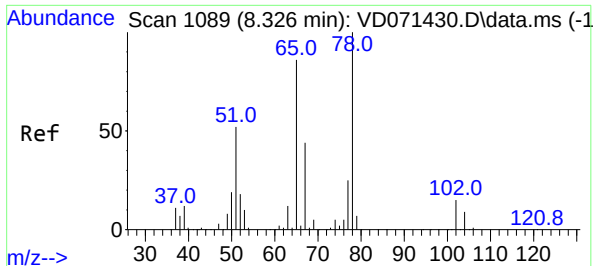
Ion Ratio Lower Upper

56 100

69 0.0 25.9 38.9#

84 55.6 64.3 96.5#

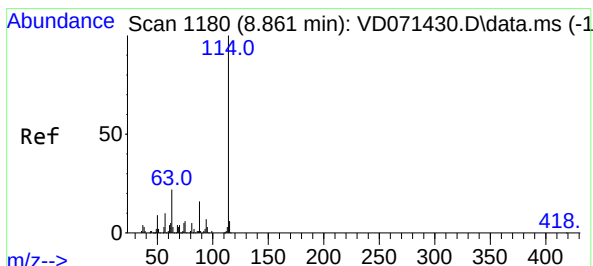
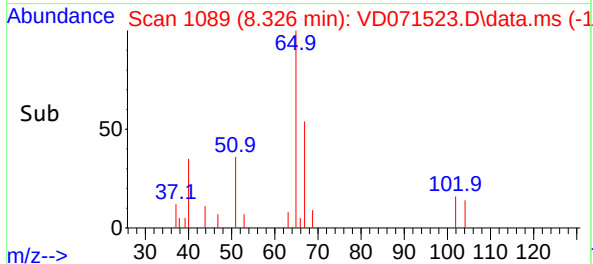
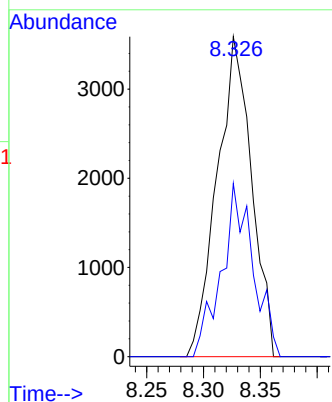
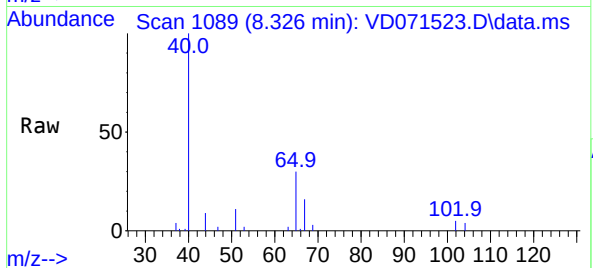




#33
1,2-Dichloroethane-d4
Concen: 73.675 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

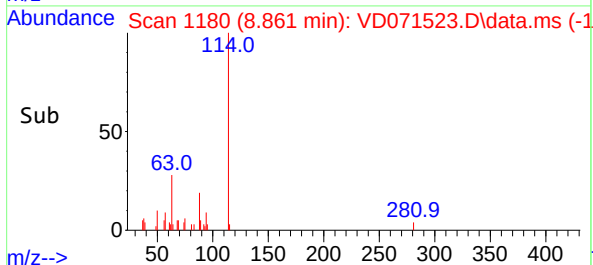
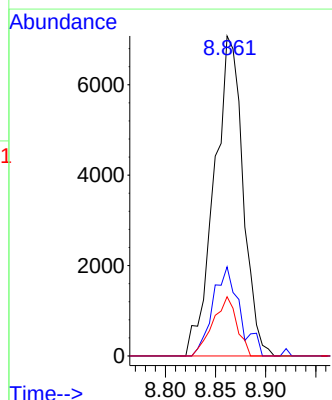
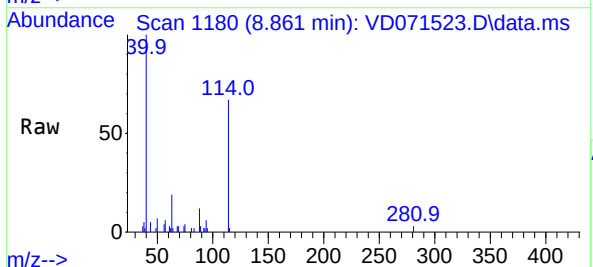
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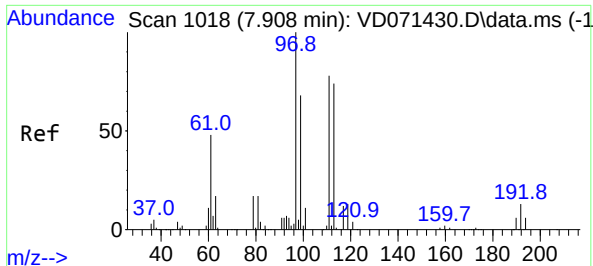
Tgt Ion: 65 Resp: 7543
Ion Ratio Lower Upper
65 100
67 49.8 0.0 112.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion: 114 Resp: 14085
Ion Ratio Lower Upper
114 100
63 27.8 0.0 41.8
88 18.5 0.0 32.8

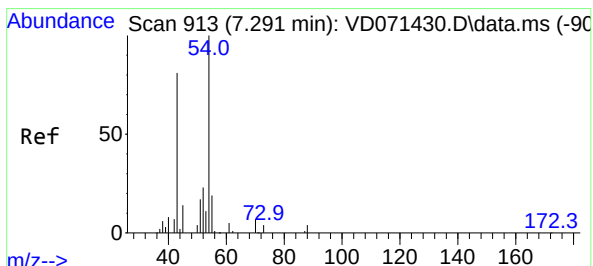
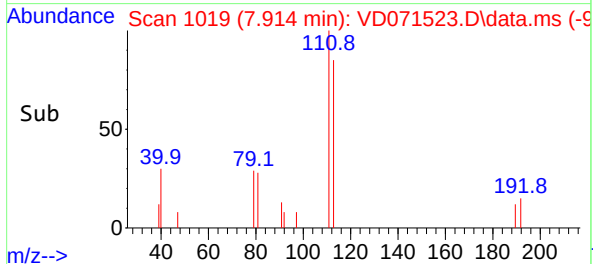
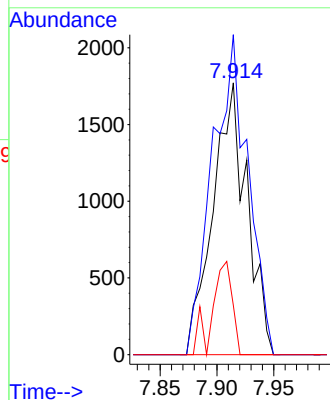
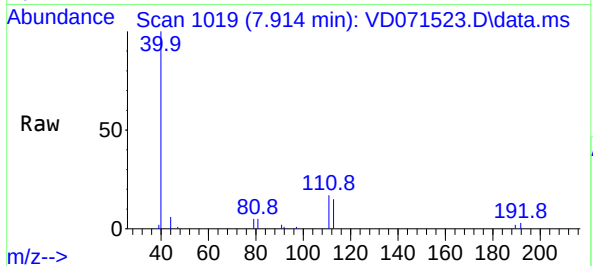




#35
Dibromofluoromethane
Concen: 39.034 ug/l
RT: 7.914 min Scan# 1018
Delta R.T. 0.006 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

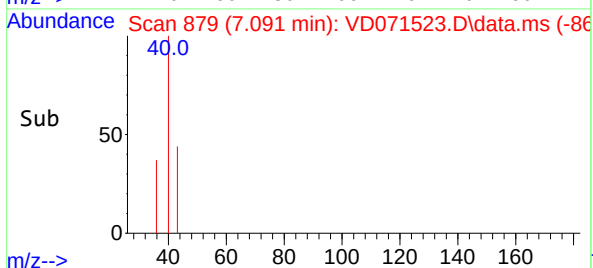
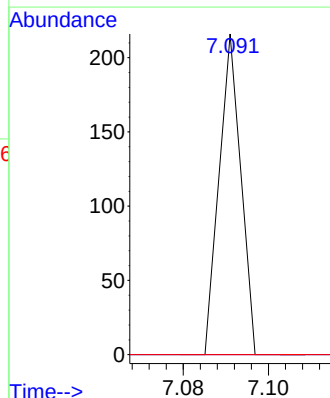
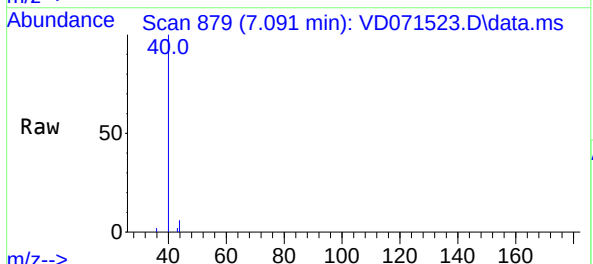
Instrument :
MSVOA_D
ClientSampleId :
PSC124055

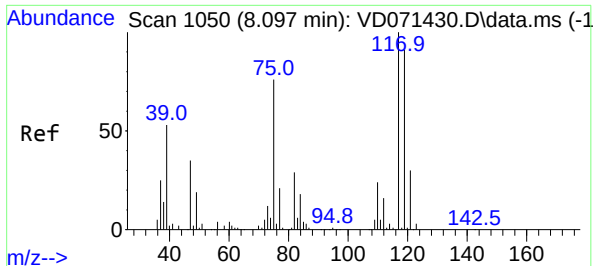
Tgt Ion:113 Resp: 3695
Ion Ratio Lower Upper
113 100
111 122.7 82.0 123.0
192 20.2 15.2 22.8



#37
Ethyl Acetate
Concen: 1.089 ug/l
RT: 7.091 min Scan# 879
Delta R.T. -0.194 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion: 43 Resp: 76
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.6#
70 0.0 8.7 13.1#

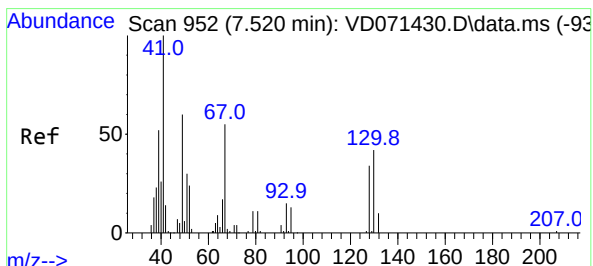
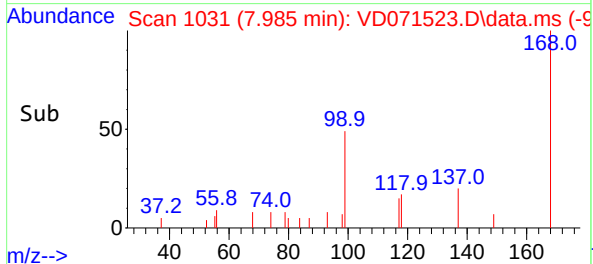
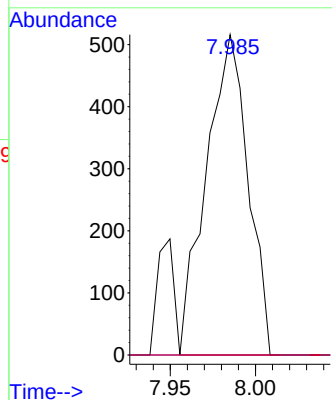
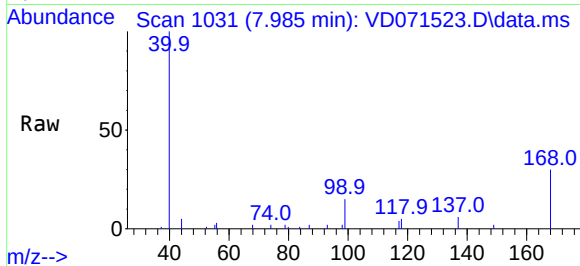




#38
Carbon Tetrachloride
Concen: 5.905 ug/l
RT: 7.985 min Scan# 10
Delta R.T. -0.112 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

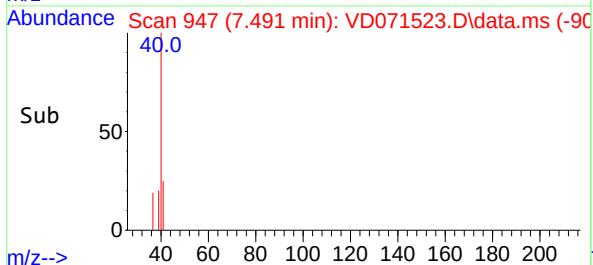
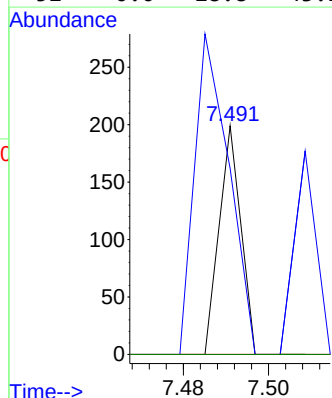
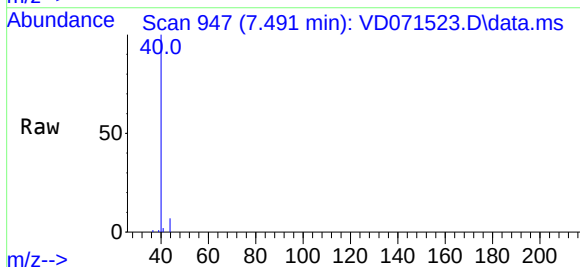
Instrument :
MSVOA_D
ClientSampleId :
PSC124055

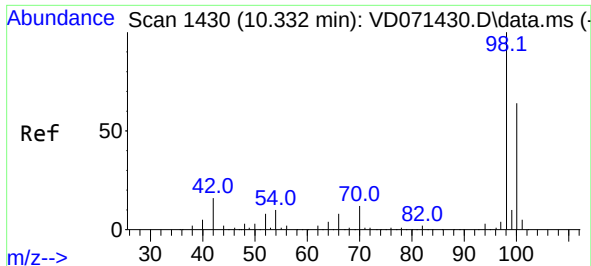
Tgt Ion:117 Resp: 881
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



#41
Methacrylonitrile
Concen: 1.688 ug/l
RT: 7.491 min Scan# 947
Delta R.T. -0.035 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion: 41 Resp: 70
Ion Ratio Lower Upper
41 100
39 222.9 60.2 90.4#
67 0.0 74.8 112.2#
52 0.0 28.8 43.2#

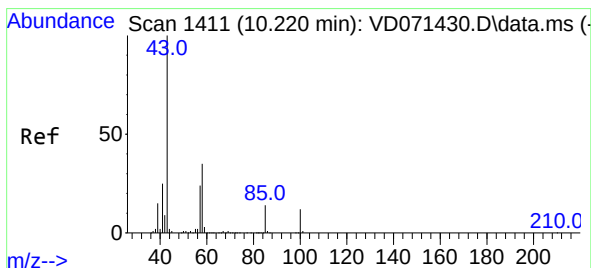
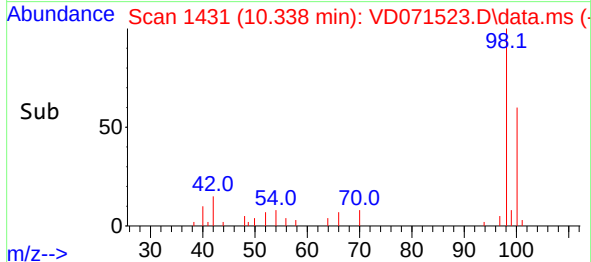
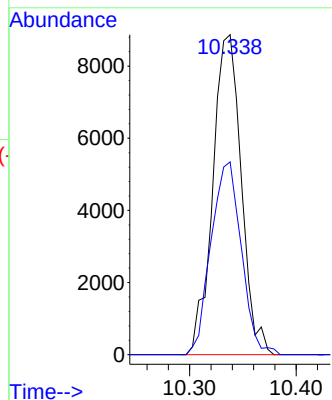
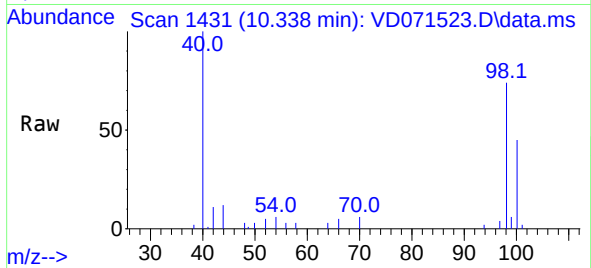




#50
Toluene-d8
Concen: 46.155 ug/l
RT: 10.338 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

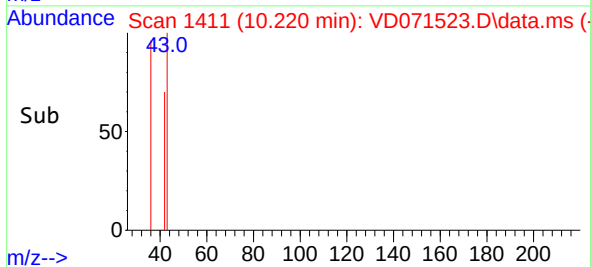
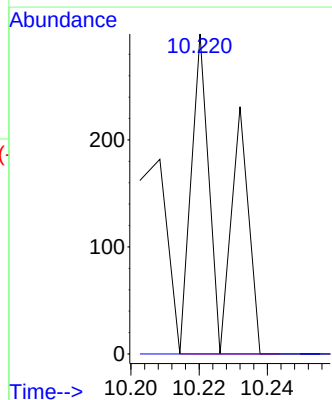
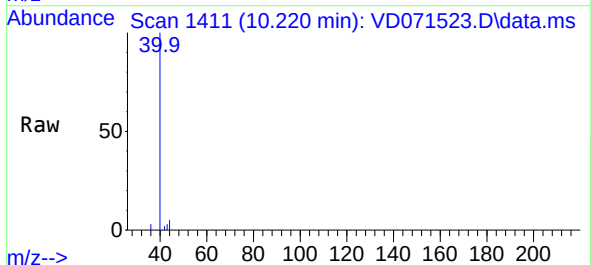
Instrument :
MSVOA_D
ClientSampleId :
PSC124055

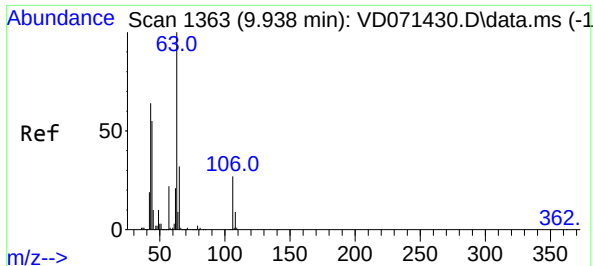
Tgt Ion: 98 Resp: 16511
Ion Ratio Lower Upper
98 100
100 64.0 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 2.565 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. 0.000 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion: 43 Resp: 187
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

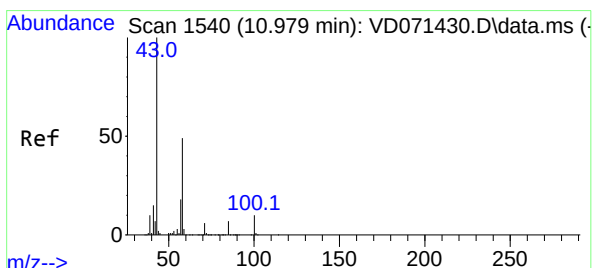
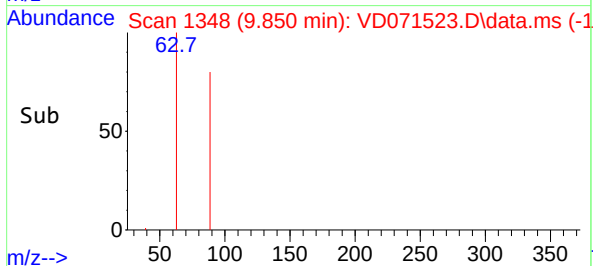
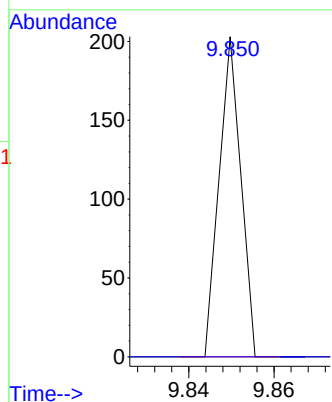
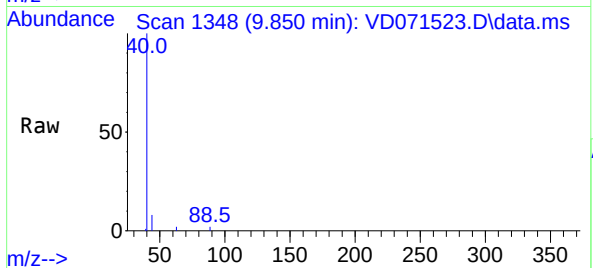




#58
2-Chloroethyl Vinyl ether
Concen: 1.544 ug/l
RT: 9.850 min Scan# 11
Delta R.T. -0.088 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

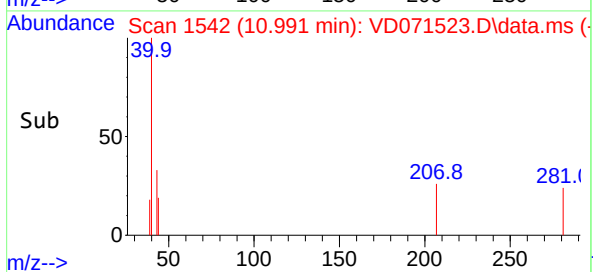
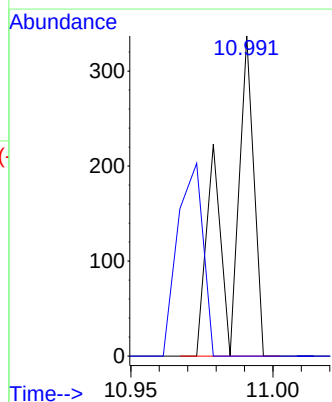
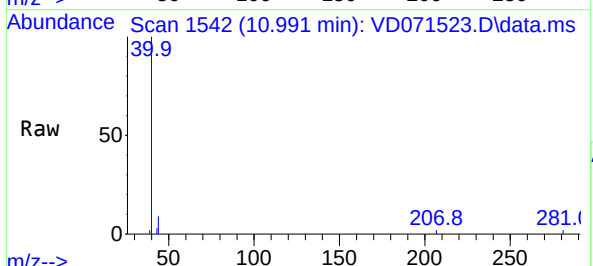
Instrument :
MSVOA_D
ClientSampleId :
PSC124055

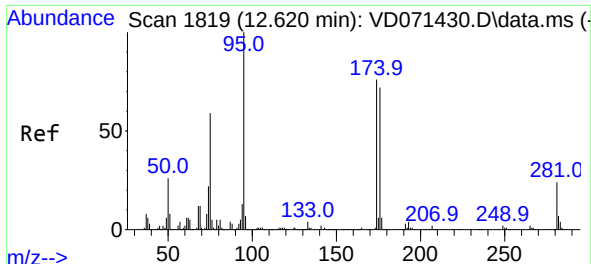
Tgt Ion: 63 Resp: 72
Ion Ratio Lower Upper
63 100
106 0.0 21.0 31.4#



#59
2-Hexanone
Concen: 3.843 ug/l
RT: 10.991 min Scan# 1542
Delta R.T. 0.012 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion: 43 Resp: 198
Ion Ratio Lower Upper
43 100
58 63.6 28.7 86.1

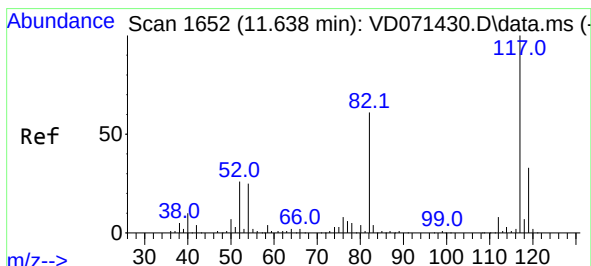
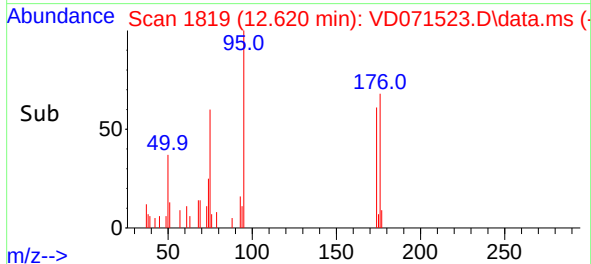
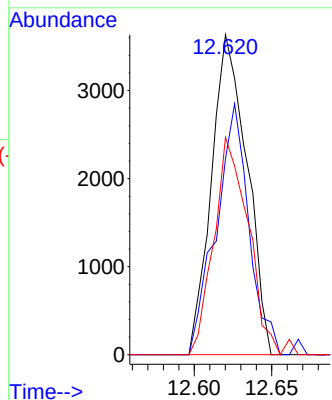
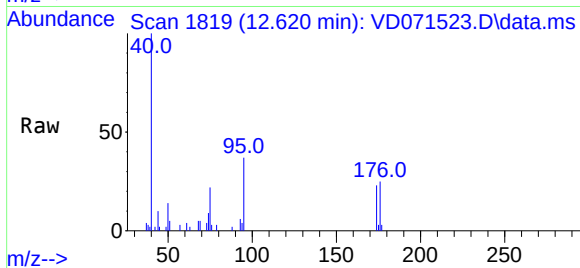




#62
4-Bromofluorobenzene
Concen: 45.406 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

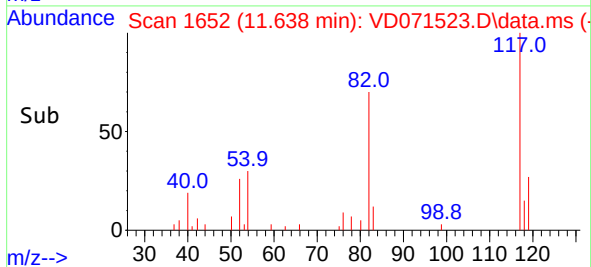
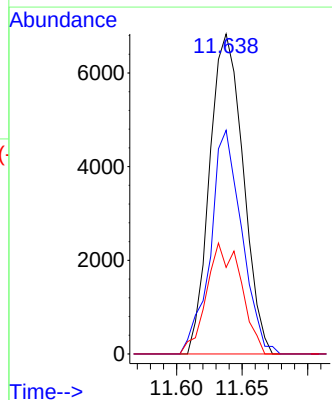
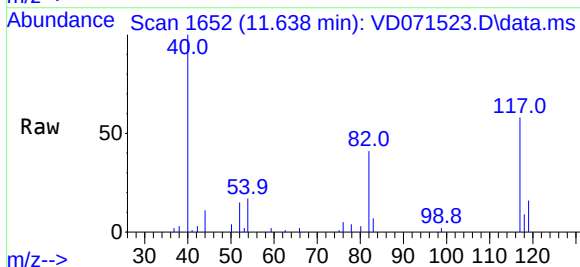
Instrument :
MSVOA_D
ClientSampleId :
PSC124055

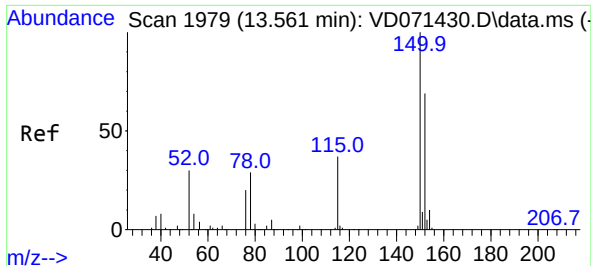
Tgt Ion:	95	Resp:	5772
Ion	Ratio	Lower	Upper
95	100		
174	72.7	0.0	159.4
176	66.8	0.0	154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion:	117	Resp:	12123
Ion	Ratio	Lower	Upper
117	100		
82	69.9	44.7	67.1
119	27.1	26.2	39.4

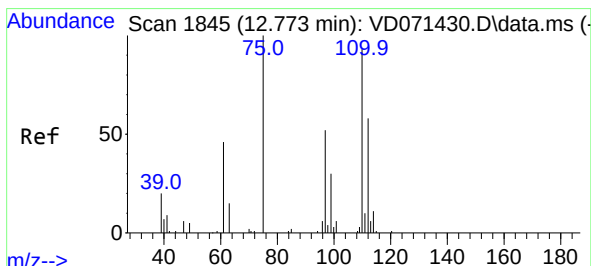
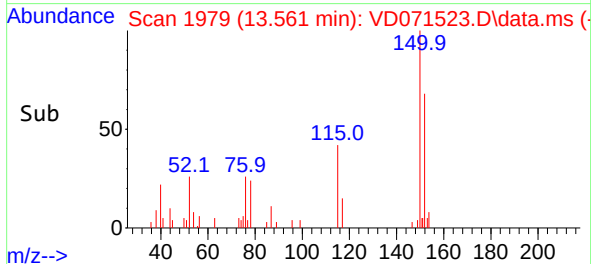
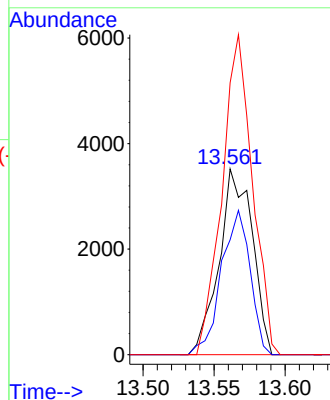
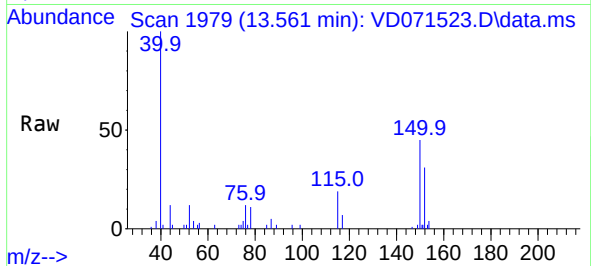




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

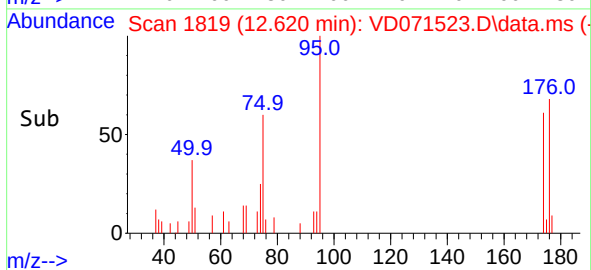
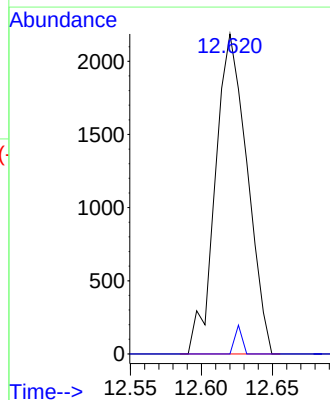
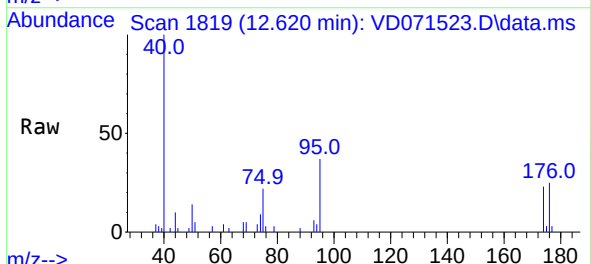
Instrument :
MSVOA_D
ClientSampleId :
PSC124055

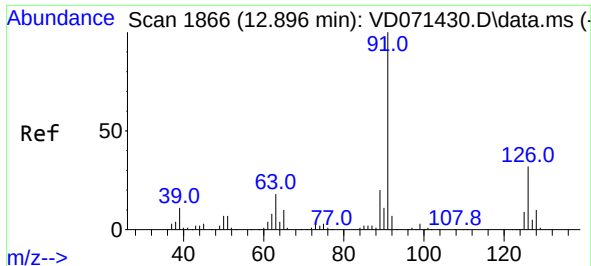
Tgt Ion:152 Resp: 5721
Ion Ratio Lower Upper
152 100
115 67.5 29.8 89.3
150 158.0 0.0 349.2



#76
1,2,3-Trichloropropane
Concen: 50.224 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion: 75 Resp: 3414
Ion Ratio Lower Upper
75 100
77 2.1 158.4 475.3#

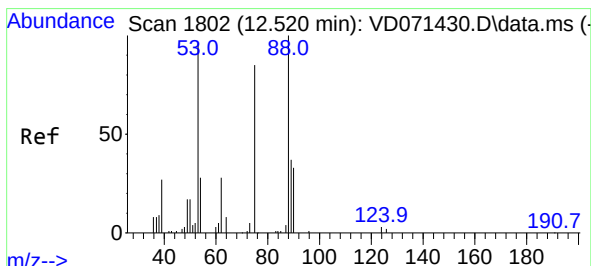
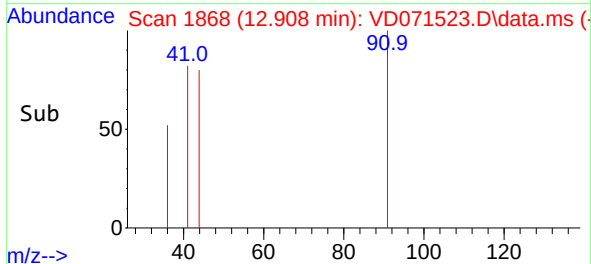
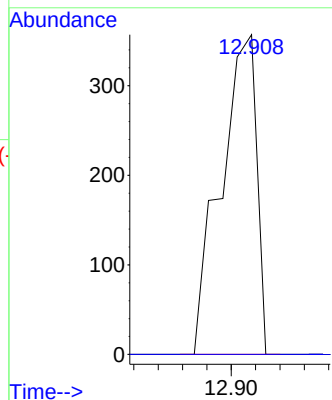
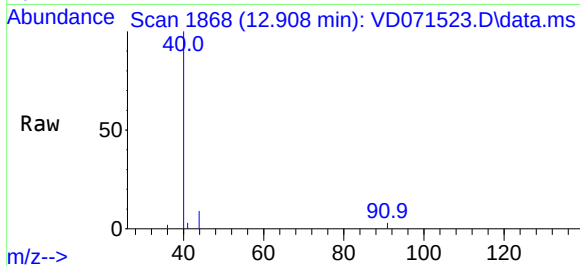




#79
2-Chlorotoluene
Concen: 1.181 ug/l
RT: 12.908 min Scan# 1866
Delta R.T. 0.012 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

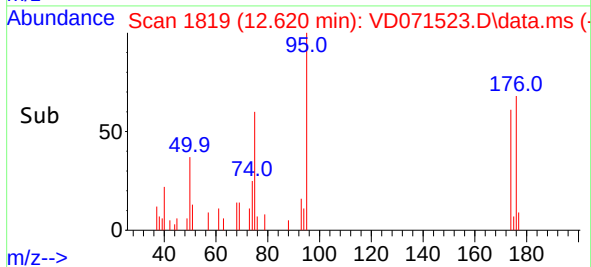
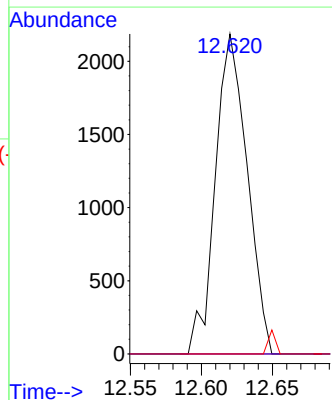
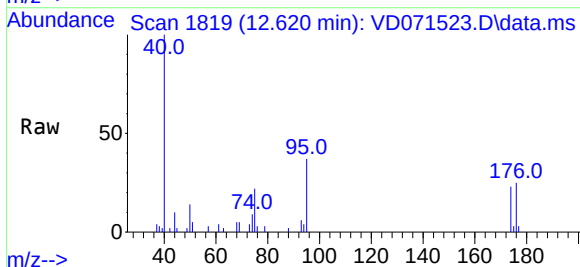
Instrument :
MSVOA_D
ClientSampleId :
PSC124055

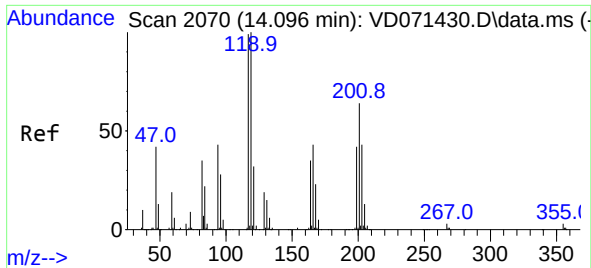
Tgt Ion: 91 Resp: 365
Ion Ratio Lower Upper
91 100
126 0.0 16.6 49.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 141.909 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion: 75 Resp: 3414
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#

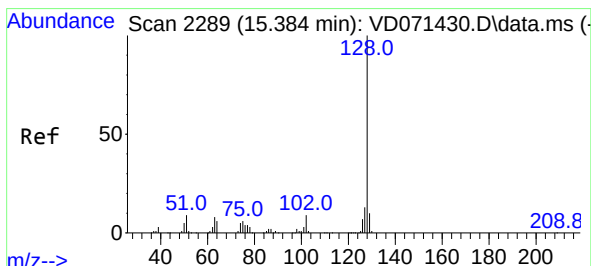
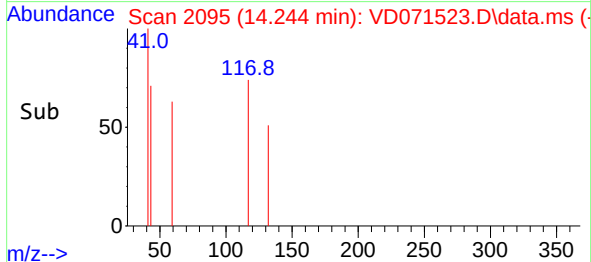
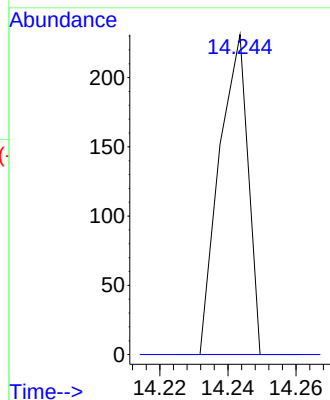
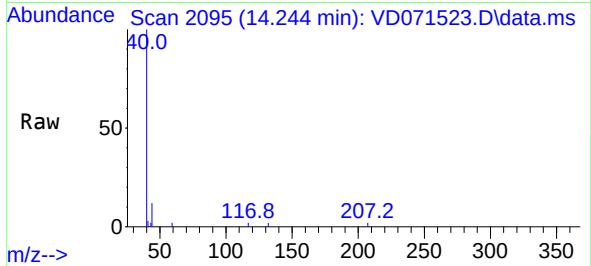




#90
Hexachloroethane
Concen: 1.812 ug/l
RT: 14.244 min Scan# 2070
Delta R.T. 0.148 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Instrument :
MSVOA_D
ClientSampleId :
PSC124055

Tgt Ion:117 Resp: 135
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#



#95
Naphthalene
Concen: 3.048 ug/l
RT: 15.391 min Scan# 2290
Delta R.T. 0.012 min
Lab File: VD071523.D
Acq: 29 Dec 2021 12:37

Tgt Ion:128 Resp: 593
Ion Ratio Lower Upper
128 100
127 0.0 10.7 16.1#
129 0.0 8.7 13.1#

