

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121721\
 Data File : VD071382.D
 Acq On : 17 Dec 2021 14:54
 Operator : VA/SY
 Sample : M5130-01RE
 Misc : 6.86G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

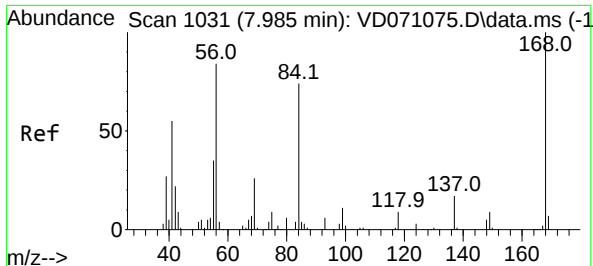
Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 19 01:53:04 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.973	168	310869	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.856	114	567630	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	370426	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	56110	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	211359	57.943	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 115.880%	
35) Dibromofluoromethane	7.909	113	190743	52.770	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 105.540%	
50) Toluene-d8	10.332	98	611931	44.486	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 88.980%	
62) 4-Bromofluorobenzene	12.620	95	123153	25.828	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 51.660%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.291	142	63	4.576	ug/l #	1
11) Tert butyl alcohol	5.226	59	729	Below Cal	#	71
16) Acetone	4.150	43	58081	83.374	ug/l	92
20) Methylene Chloride	4.962	84	13612	Below Cal		92
23) Vinyl Acetate	6.273	43	103	27.234	ug/l #	72
25) 2-Butanone	7.214	43	10314	36.533	ug/l	92
31) Cyclohexane	7.967	56	9300	1.499	ug/l #	37
36) 1,1-Dichloropropene	7.973	75	28388	5.351	ug/l #	48
37) Ethyl Acetate	7.214	43	10314	4.501	ug/l #	76
38) Carbon Tetrachloride	7.973	117	33819	6.467	ug/l #	16
41) Methacrylonitrile	7.538	41	163	Below Cal	#	47
43) Isopropyl Acetate	8.456	43	85	5.238	ug/l #	47
44) Trichloroethene	9.103	130	4752	1.237	ug/l	76
49) 1,4-Dioxane	9.503	88	61	3.214	ug/l #	23
51) 4-Methyl-2-Pentanone	10.214	43	1642	31.209	ug/l #	80
56) Ethyl methacrylate	10.632	69	189	6.015	ug/l #	1
59) 2-Hexanone	10.985	43	4511	36.570	ug/l	72
60) Dibromochloromethane	10.873	129	17953	5.600	ug/l #	11
64) Tetrachloroethene	10.873	164	19527	8.304	ug/l	96
71) Bromoform	12.626	173	1366	1.051	ug/l #	1
73) Isopropylbenzene	12.473	105	4124	1.015	ug/l	84
74) N-amyl acetate	12.255	43	19998	21.629	ug/l #	63
75) 1,1,2,2-Tetrachloroethane	12.697	83	1200	1.794	ug/l #	1
76) 1,2,3-Trichloropropane	12.620	75	73991	138.407	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.944	105	6752	2.015	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.620	75	73991	292.116	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.255	105	9349	2.858	ug/l	97
85) sec-Butylbenzene	13.391	105	4553	1.036	ug/l #	69
86) p-Isopropyltoluene	13.449	119	4405	1.226	ug/l	91
89) n-Butylbenzene	13.832	91	3566	1.016	ug/l	86
90) Hexachloroethane	14.096	117	1244	1.826	ug/l #	14

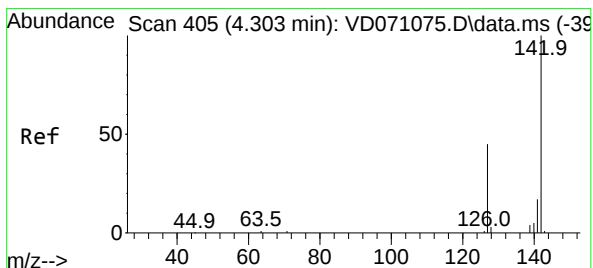
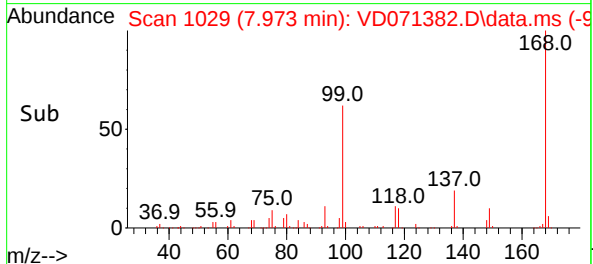
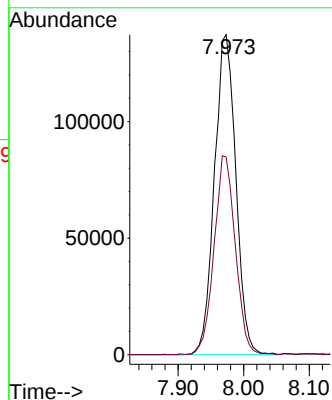
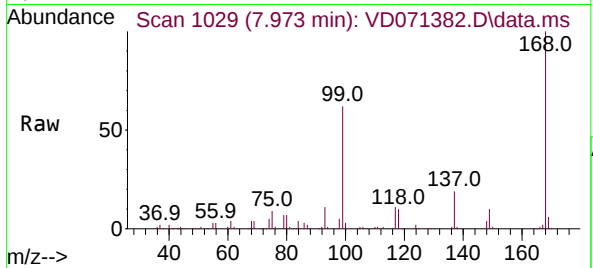
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1031
Delta R.T. -0.012 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

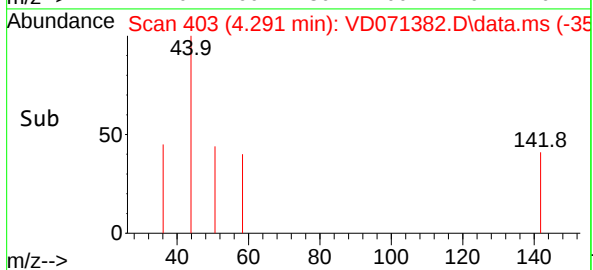
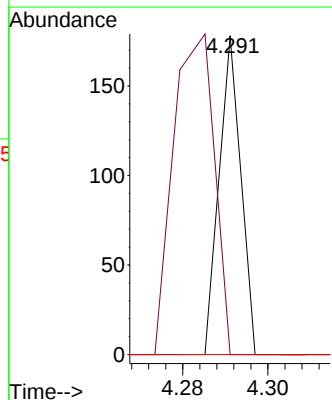
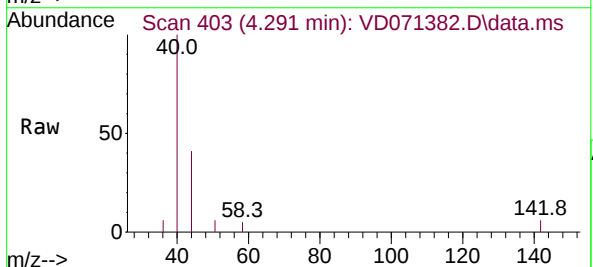
Instrument :
MSVOA_D
ClientSampleId :

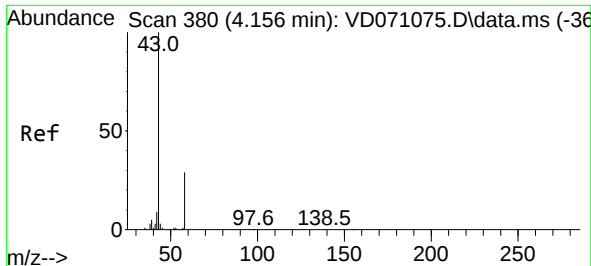
Tgt Ion:168 Resp: 310869
Ion Ratio Lower Upper
168 100
99 61.6 46.6 69.8



#10
Methyl Iodide
Concen: 4.576 ug/l
RT: 4.291 min Scan# 403
Delta R.T. -0.012 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

Tgt Ion:142 Resp: 63
Ion Ratio Lower Upper
142 100
127 188.9 35.0 52.4#
141 0.0 12.0 18.0#

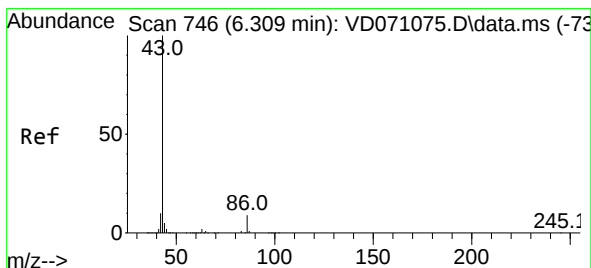
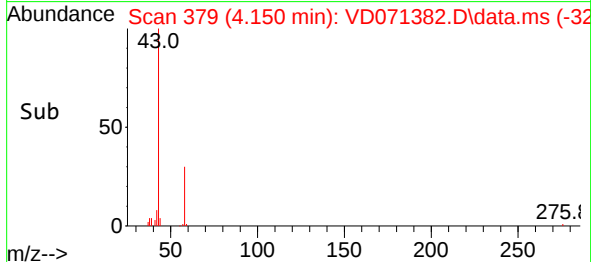
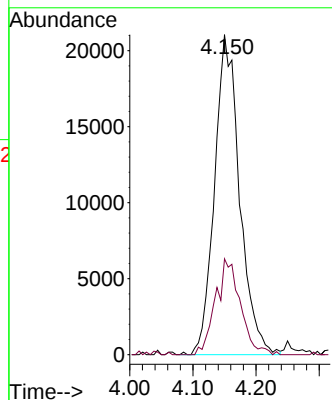
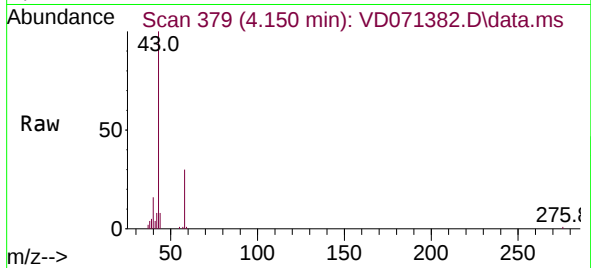




#16
Acetone
Concen: 83.374 ug/l
RT: 4.150 min Scan# 31
Delta R.T. -0.006 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

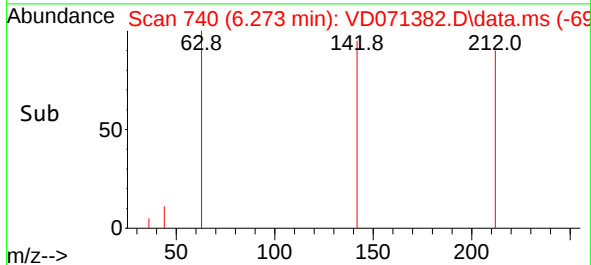
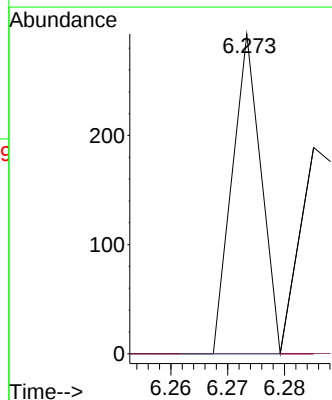
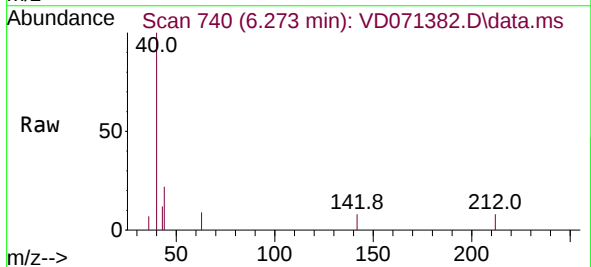
Instrument :
MSVOA_D
ClientSampleId :

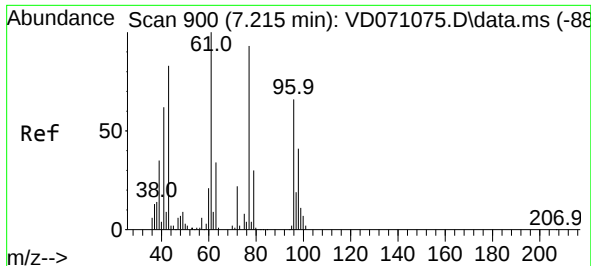
Tgt Ion: 43 Resp: 58081
Ion Ratio Lower Upper
43 100
58 29.9 27.8 41.8



#23
Vinyl Acetate
Concen: 27.234 ug/l
RT: 6.273 min Scan# 740
Delta R.T. -0.036 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

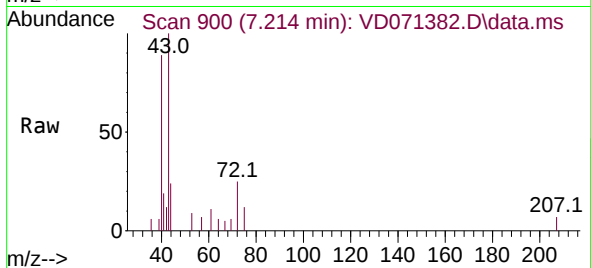
Tgt Ion: 43 Resp: 103
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#



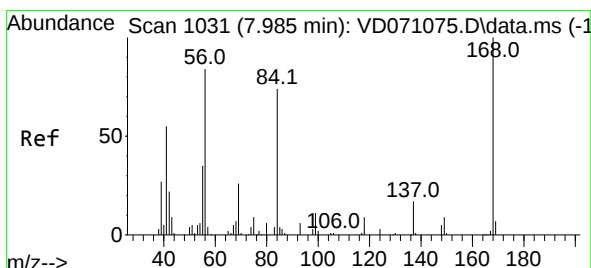
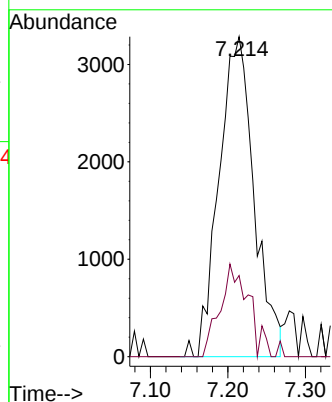
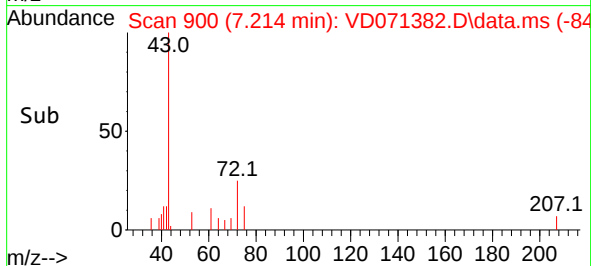


#25
2-Butanone
Concen: 36.533 ug/l
RT: 7.214 min Scan# 90
Delta R.T. -0.001 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

Instrument :
MSVOA_D
ClientSampleId :

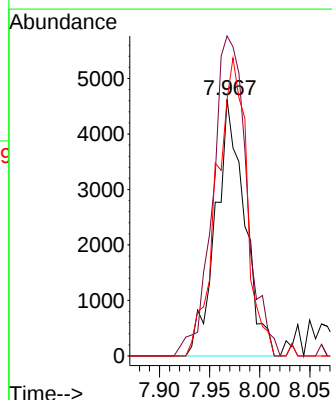
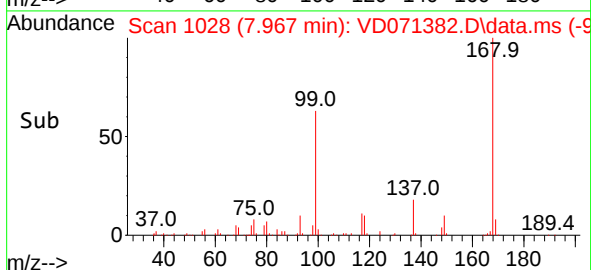
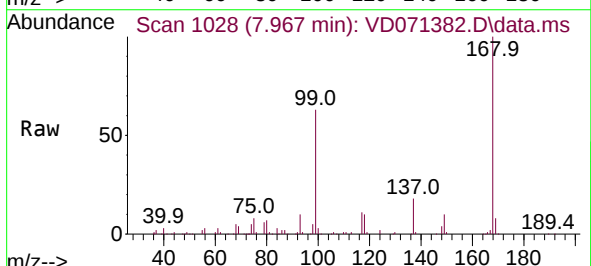


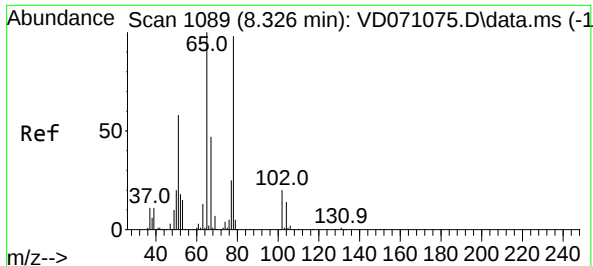
Tgt Ion: 43 Resp: 10314
Ion Ratio Lower Upper
43 100
72 25.3 23.8 35.6



#31
Cyclohexane
Concen: 1.499 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.018 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

Tgt Ion: 56 Resp: 9300
Ion Ratio Lower Upper
56 100
69 124.8 25.9 38.9#
84 100.1 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 57.943 ug/l

RT: 8.326 min Scan# 1107

Delta R.T. 0.000 min

Lab File: VD071382.D

Acq: 17 Dec 2021 14:54

Instrument :

MSVOA_D

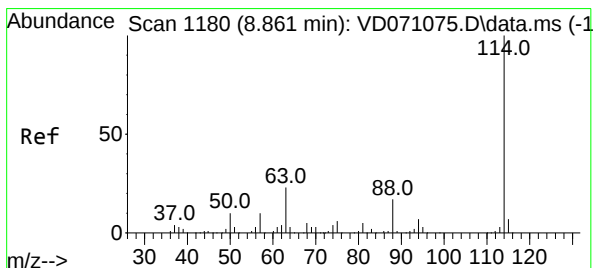
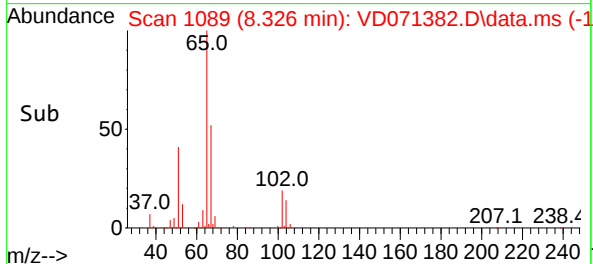
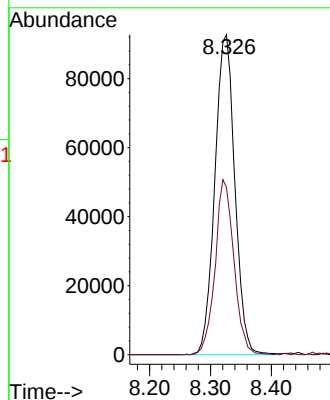
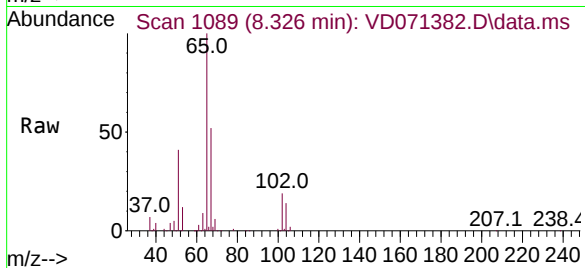
ClientSampleId :

Tgt Ion: 65 Resp: 211359

Ion Ratio Lower Upper

65 100

67 51.5 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1179

Delta R.T. -0.005 min

Lab File: VD071382.D

Acq: 17 Dec 2021 14:54

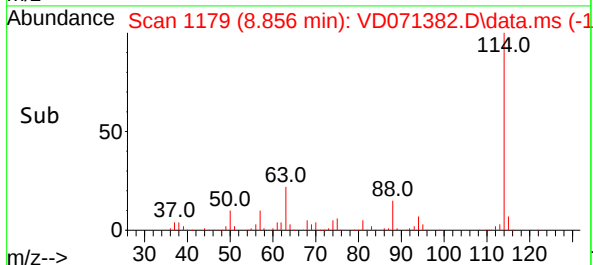
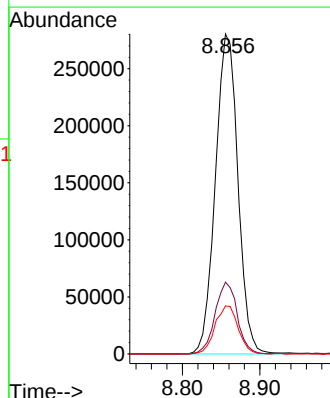
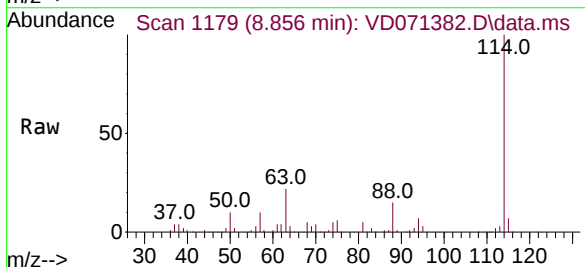
Tgt Ion: 114 Resp: 567630

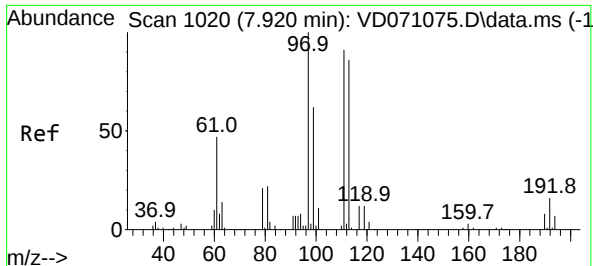
Ion Ratio Lower Upper

114 100

63 22.4 0.0 41.8

88 15.0 0.0 32.8





#35

Dibromofluoromethane

Concen: 52.770 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.011 min

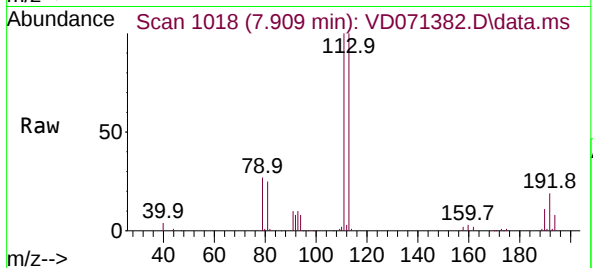
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Acq: 17 Dec 2021 14:54

Instrument :

MSVOA_D

ClientSampleId :



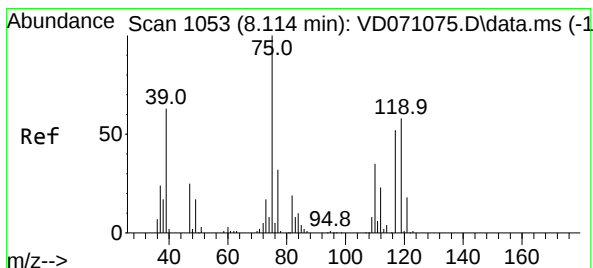
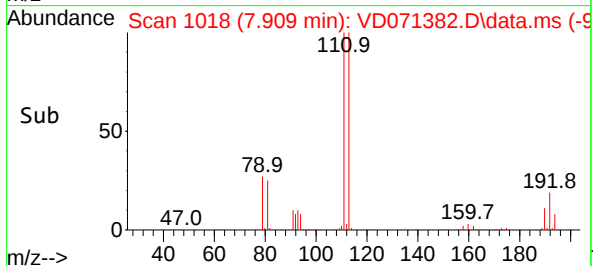
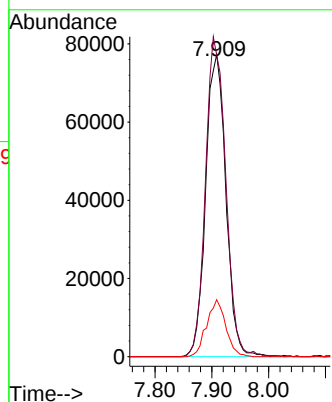
Tgt Ion:113 Resp: 190743

Ion Ratio Lower Upper

113 100

111 106.0 82.0 123.0

192 17.9 15.2 22.8



#36

1,1-Dichloropropene

Concen: 5.351 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD071382.D

Acq: 17 Dec 2021 14:54

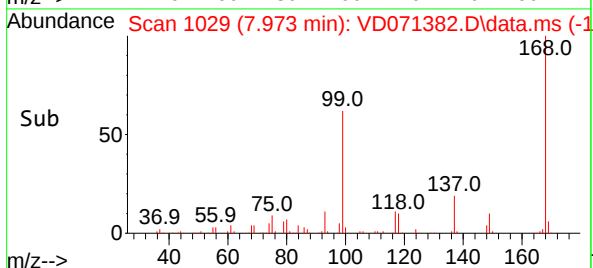
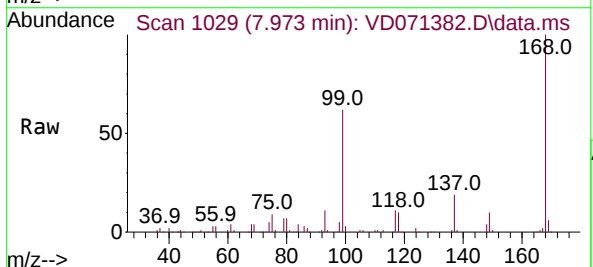
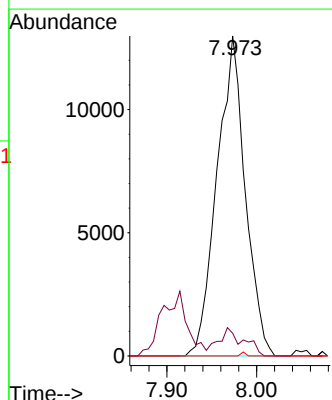
Tgt Ion: 75 Resp: 28388

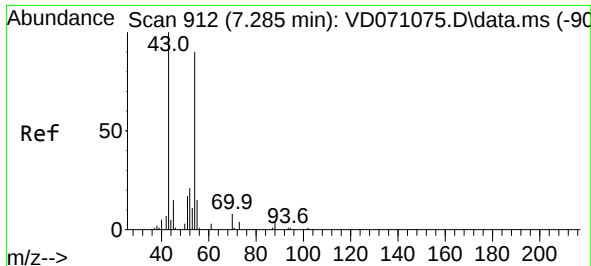
Ion Ratio Lower Upper

75 100

110 7.7 17.8 53.4#

77 0.2 24.8 37.2#





#37

Ethyl Acetate

Concen: 4.501 ug/l

RT: 7.214 min Scan# 90

Delta R.T. -0.071 min

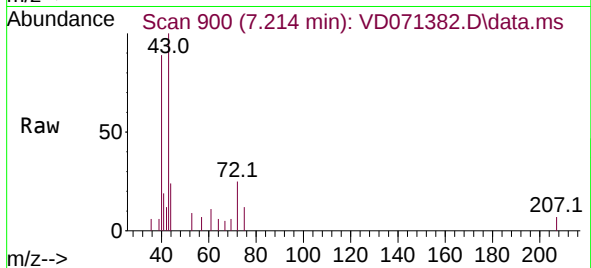
Lab File: VD071382.D

Acq: 17 Dec 2021 14:54

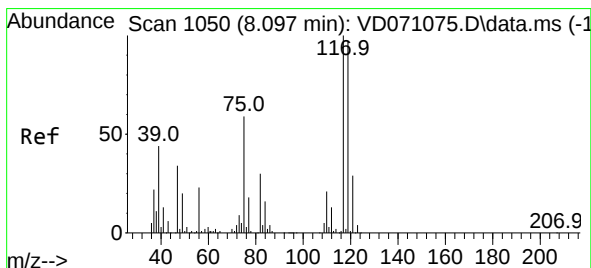
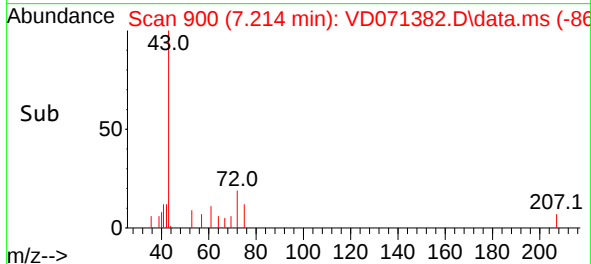
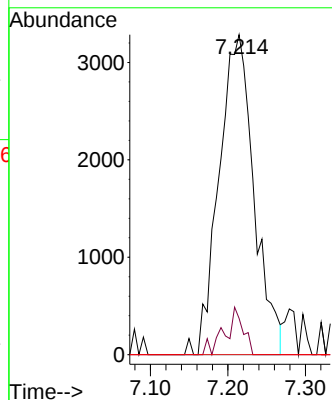
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 43	Resp: 10314
Ion Ratio	Lower Upper
43	100
61	7.7 13.0 19.6#
70	0.0 8.7 13.1#



#38

Carbon Tetrachloride

Concen: 6.467 ug/l

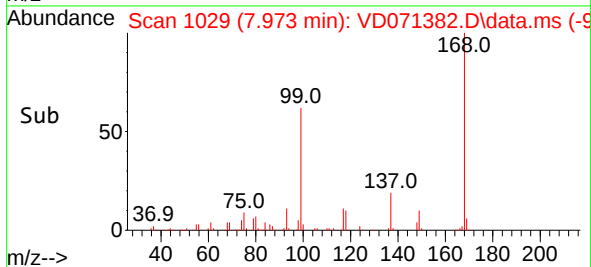
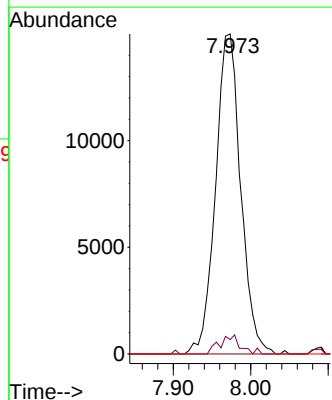
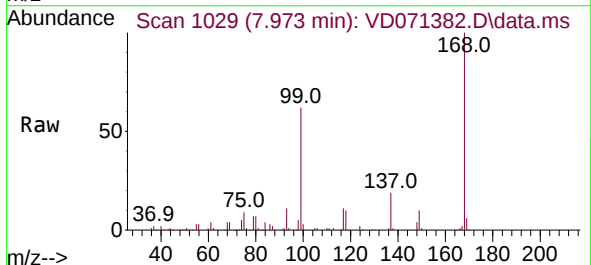
RT: 7.973 min Scan# 1029

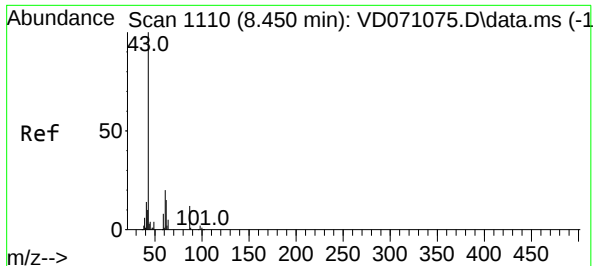
Delta R.T. -0.124 min

Lab File: VD071382.D

Acq: 17 Dec 2021 14:54

Tgt Ion: 117	Resp: 33819
Ion Ratio	Lower Upper
117	100
119	4.5 75.8 113.6#
121	0.0 23.6 35.4#





#43

Isopropyl Acetate

Concen: 5.238 ug/l

RT: 8.456 min Scan# 1111

Delta R.T. 0.006 min

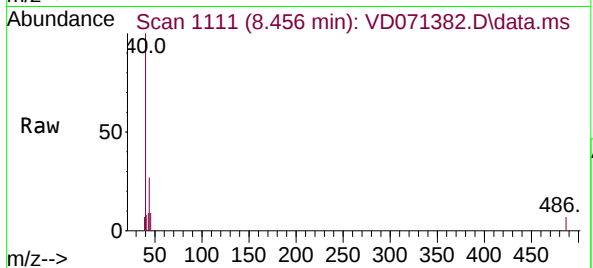
Lab File: VD071382.D

Acq: 17 Dec 2021 14:54

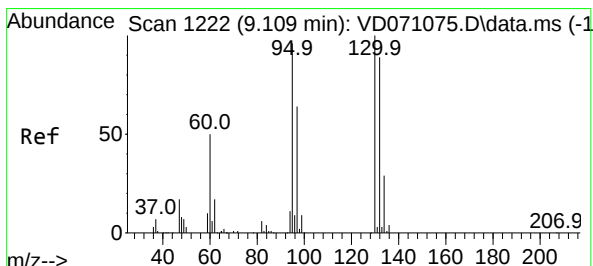
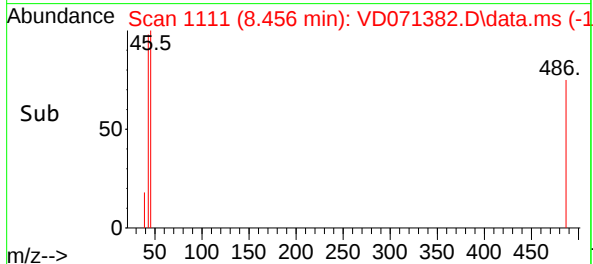
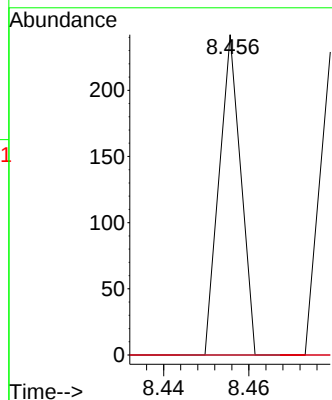
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 43	Resp: 85
Ion Ratio	Lower Upper
43	100
61	0.0 28.2 42.4#
87	0.0 10.7 16.1#



#44

Trichloroethene

Concen: 1.237 ug/l

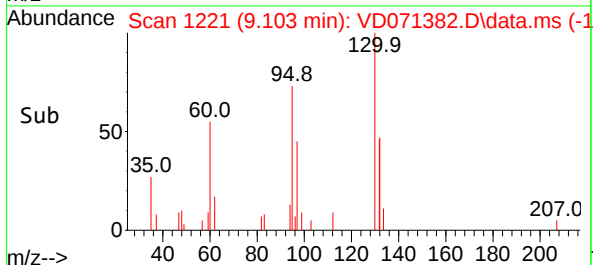
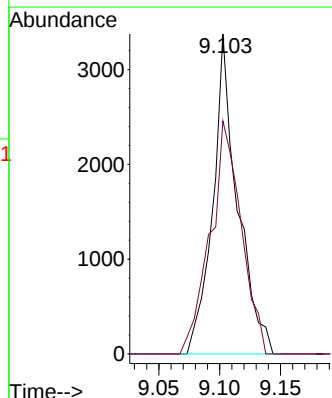
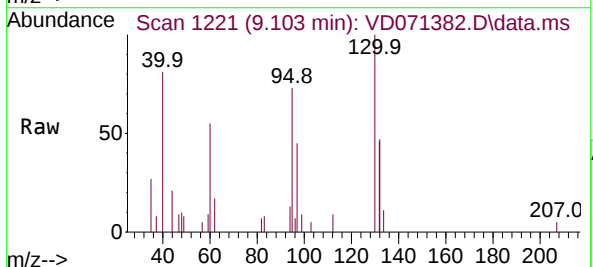
RT: 9.103 min Scan# 1221

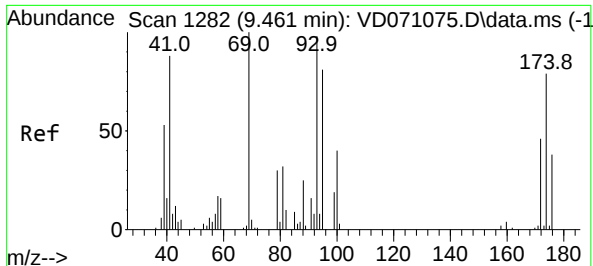
Delta R.T. -0.006 min

Lab File: VD071382.D

Acq: 17 Dec 2021 14:54

Tgt Ion: 130	Resp: 4752
Ion Ratio	Lower Upper
130	100
95	72.8 0.0 193.2





#49

1,4-Dioxane

Concen: 3.214 ug/l

RT: 9.503 min Scan# 11

Delta R.T. 0.042 min

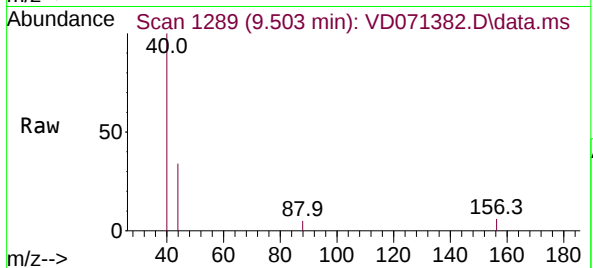
Lab File: VD071382.D

Acq: 17 Dec 2021 14:54

Instrument :

MSVOA_D

ClientSampleId :



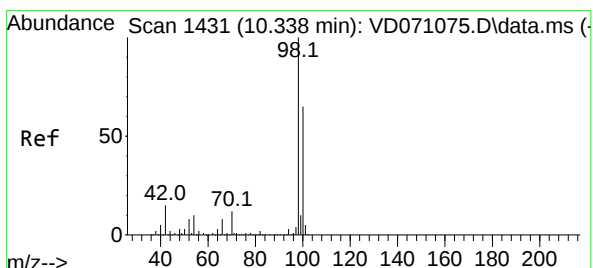
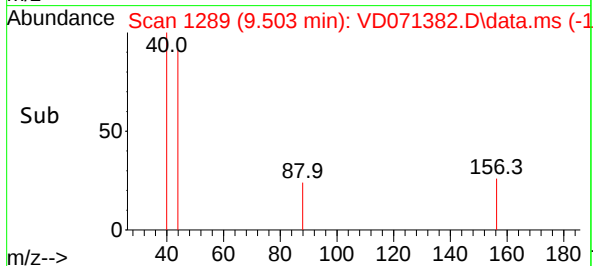
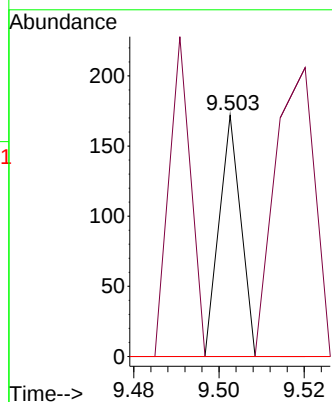
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 0.0 28.9 43.3#

58 0.0 56.3 84.5#



#50

Toluene-d8

Concen: 44.486 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.006 min

Lab File: VD071382.D

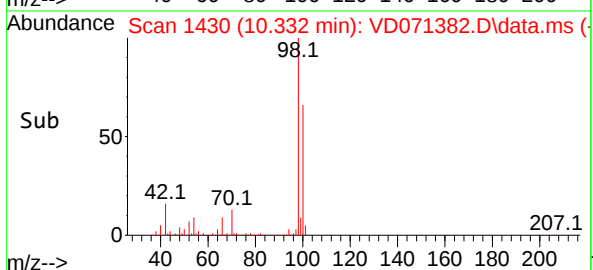
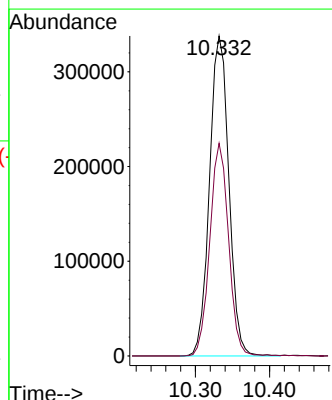
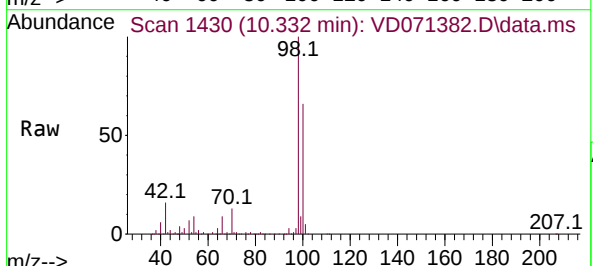
Acq: 17 Dec 2021 14:54

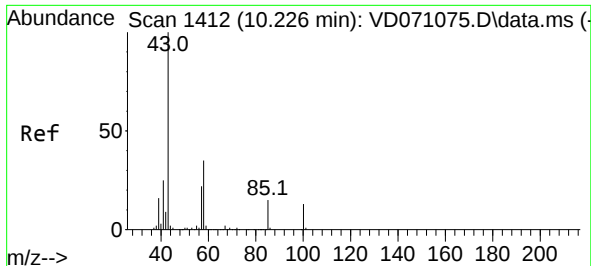
Tgt Ion: 98 Resp: 611931

Ion Ratio Lower Upper

98 100

100 64.5 51.8 77.6

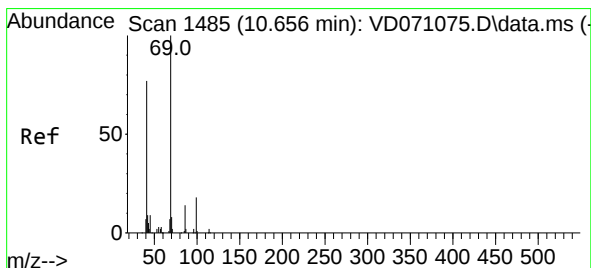
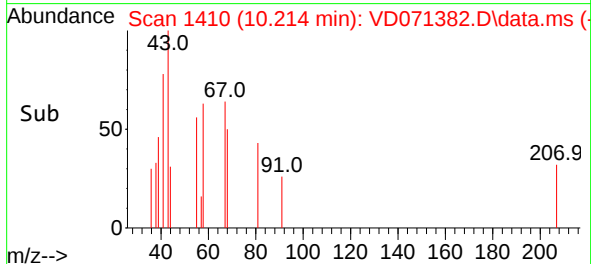
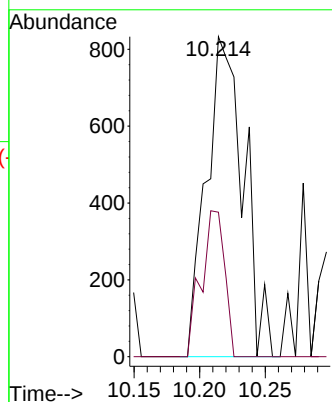
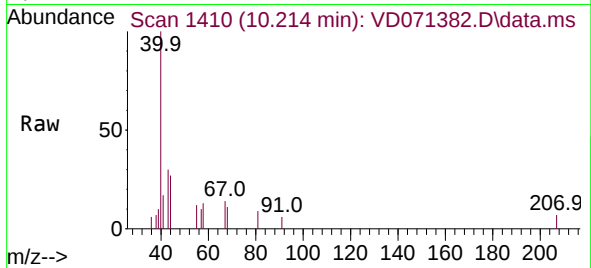




#51
4-Methyl-2-Pentanone
Concen: 31.209 ug/l
RT: 10.214 min Scan# 1410
Delta R.T. -0.012 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

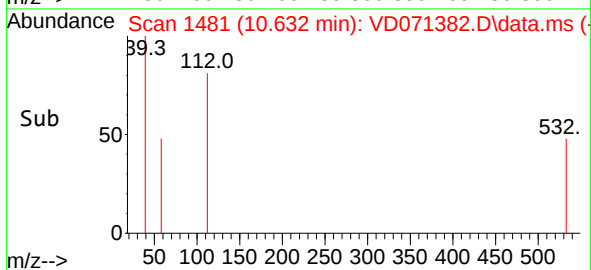
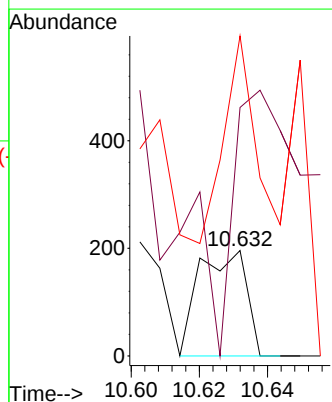
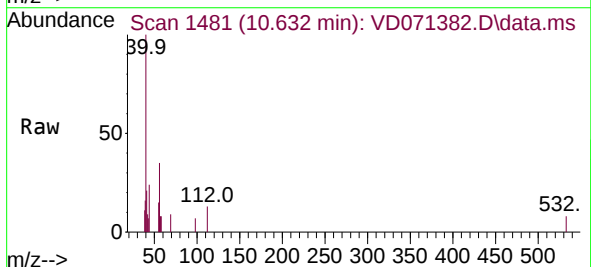
Instrument :
MSVOA_D
ClientSampleId :

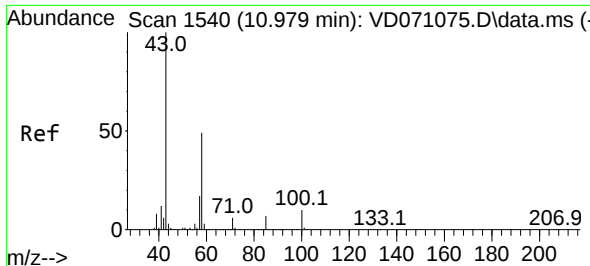
Tgt Ion: 43 Resp: 1642
Ion Ratio Lower Upper
43 100
58 28.7 33.1 49.7#



#56
Ethyl methacrylate
Concen: 6.015 ug/l
RT: 10.632 min Scan# 1481
Delta R.T. -0.024 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

Tgt Ion: 69 Resp: 189
Ion Ratio Lower Upper
69 100
41 472.0 50.2 75.2#
39 389.4 19.8 29.8#

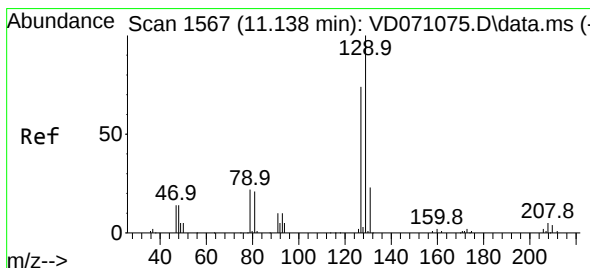
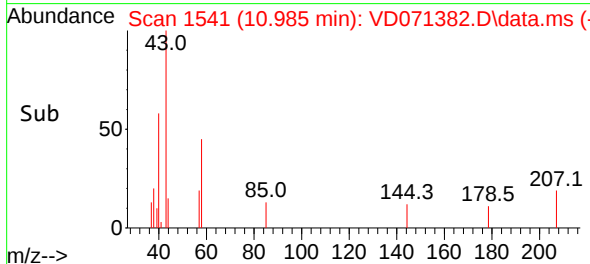
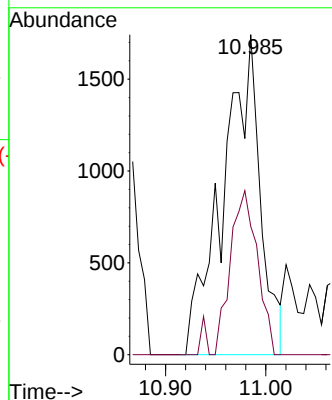
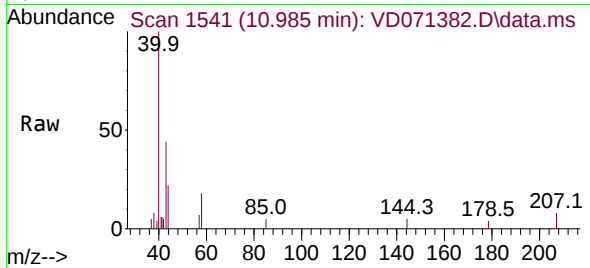




#59
2-Hexanone
Concen: 36.570 ug/l
RT: 10.985 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

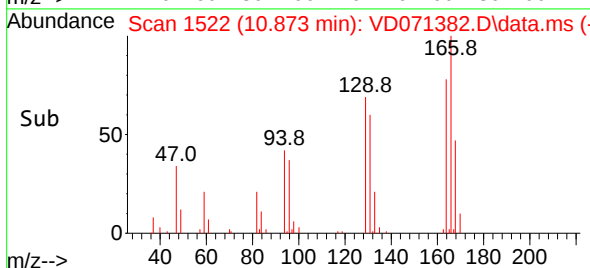
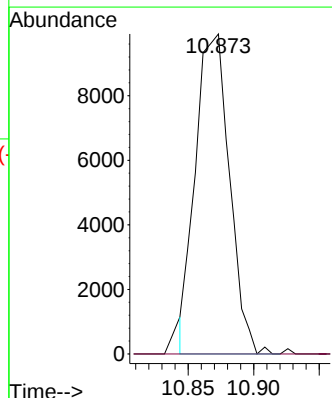
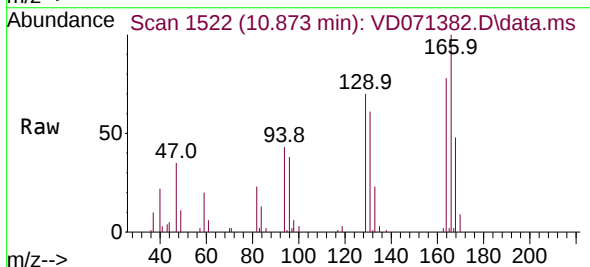
Instrument :
MSVOA_D
ClientSampleId :

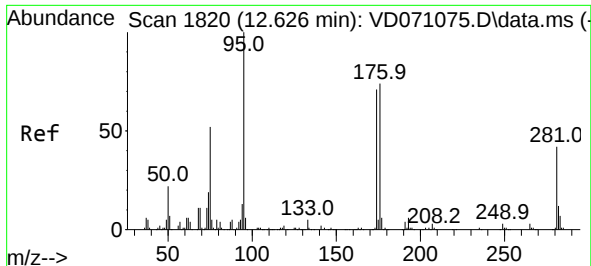
Tgt Ion: 43 Resp: 4511
Ion Ratio Lower Upper
43 100
58 37.1 28.7 86.1



#60
Dibromochloromethane
Concen: 5.600 ug/l
RT: 10.873 min Scan# 1522
Delta R.T. -0.265 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

Tgt Ion: 129 Resp: 17953
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.6#

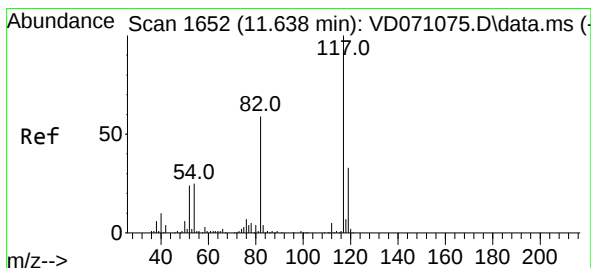
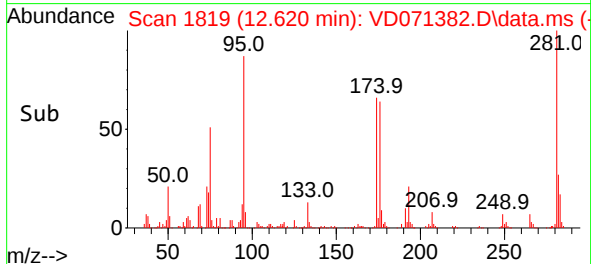
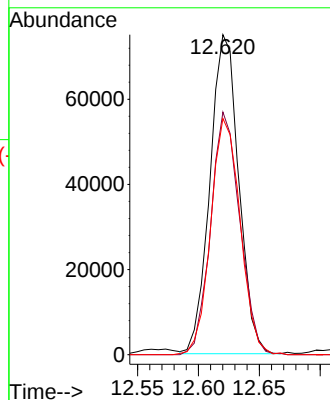
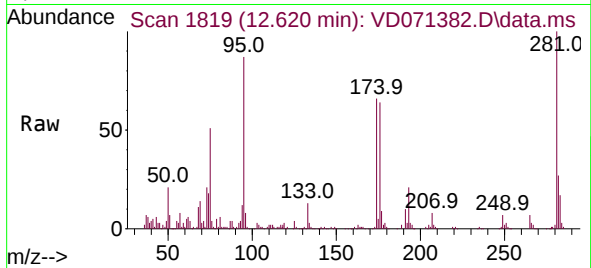




#62
4-Bromofluorobenzene
Concen: 25.828 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

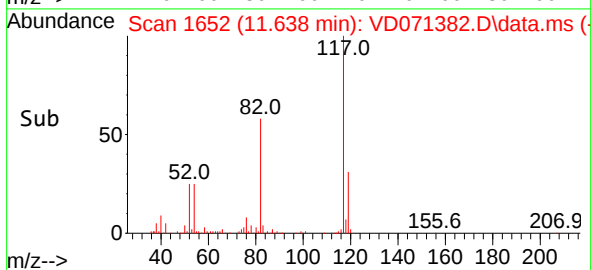
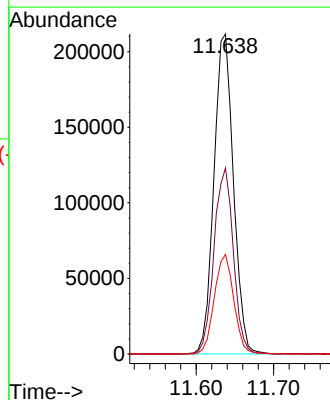
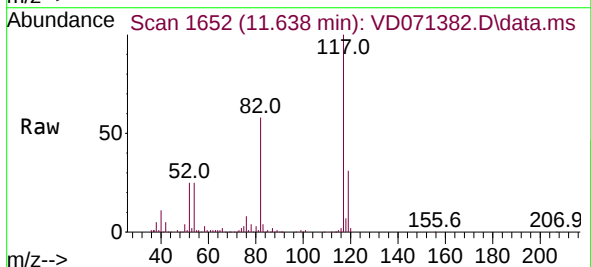
Instrument :
MSVOA_D
ClientSampleId :

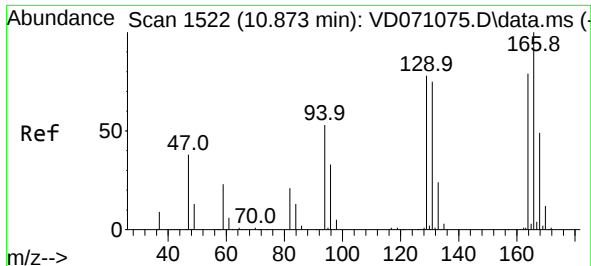
Tgt Ion: 95 Resp: 123153
Ion Ratio Lower Upper
95 100
174 76.8 0.0 159.4
176 75.8 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

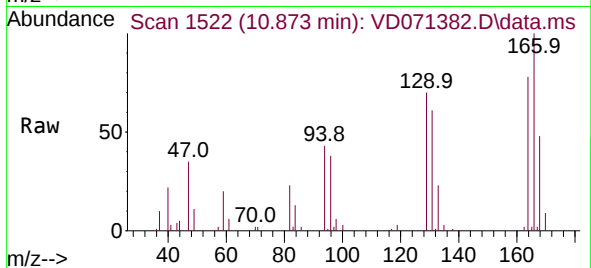
Tgt Ion:117 Resp: 370426
Ion Ratio Lower Upper
117 100
82 58.1 44.7 67.1
119 31.1 26.2 39.4



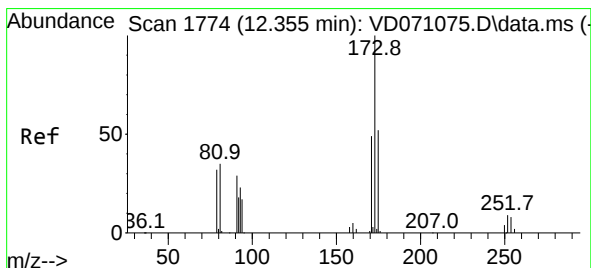
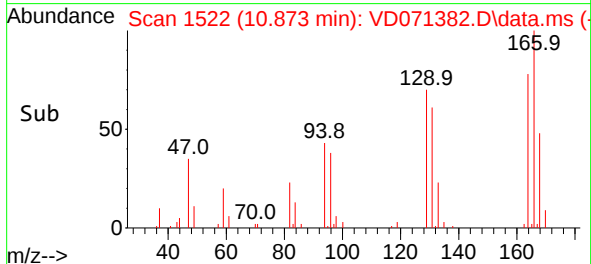
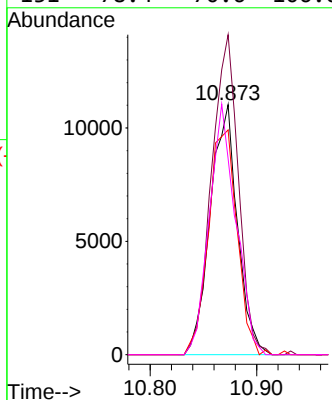


#64
Tetrachloroethene
Concen: 8.304 ug/l
RT: 10.873 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

Instrument :
MSVOA_D
ClientSampleId :

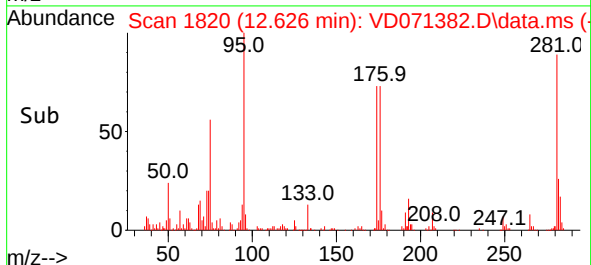
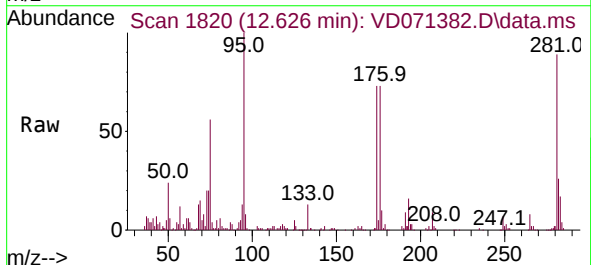
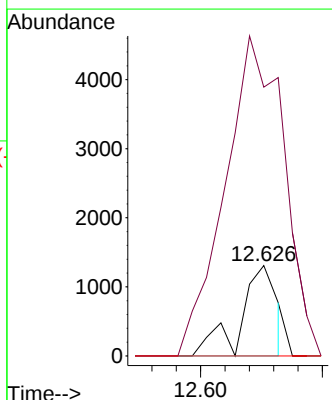


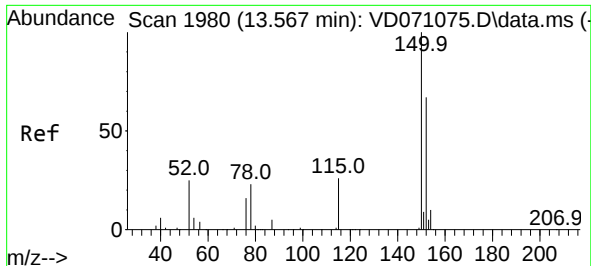
Tgt Ion:164 Resp: 19527
Ion Ratio Lower Upper
164 100
166 127.9 102.6 153.8
129 89.8 75.4 113.0
131 78.4 70.6 106.0



#71
Bromoform
Concen: 1.051 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.271 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

Tgt Ion:173 Resp: 1366
Ion Ratio Lower Upper
173 100
175 405.2 24.1 72.2#
254 0.0 0.1 0.1#

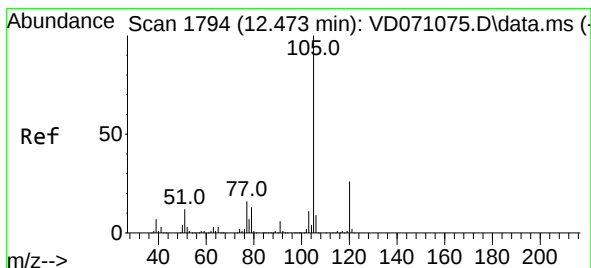
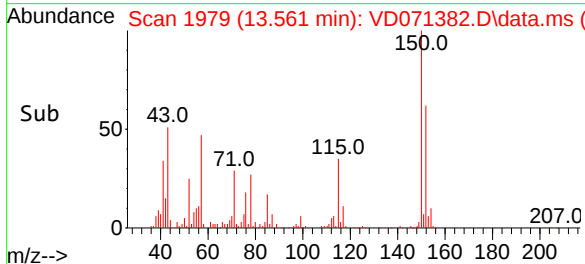
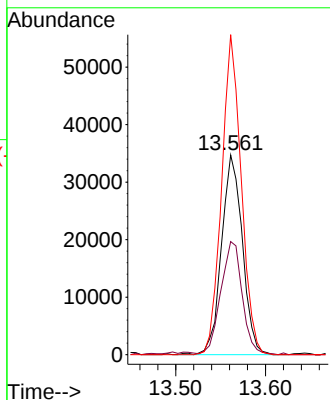
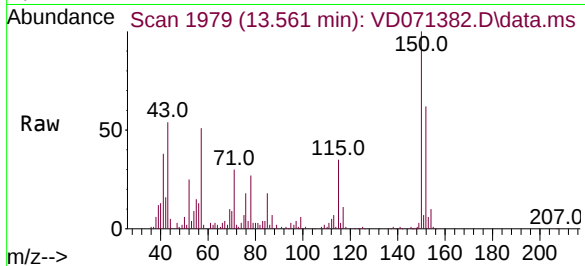




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

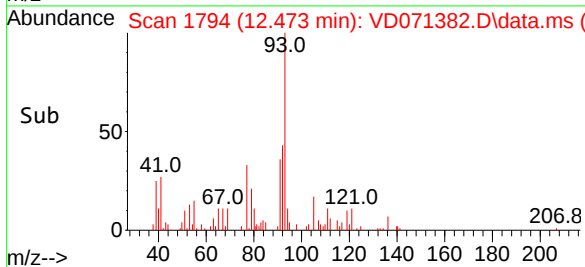
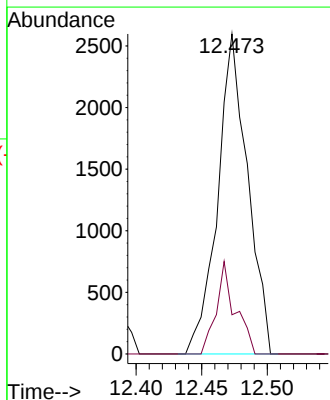
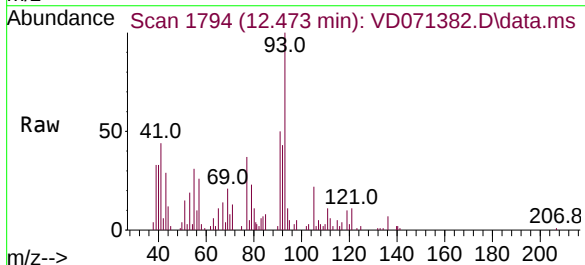
Instrument :
MSVOA_D
ClientSampleId :

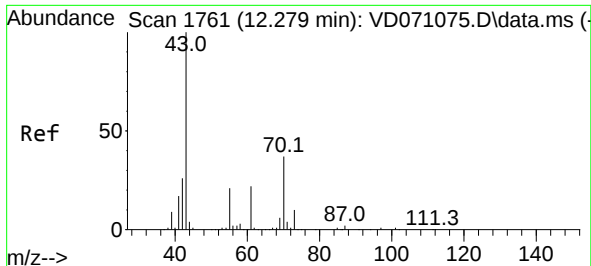
Tgt Ion:152 Resp: 56110
Ion Ratio Lower Upper
152 100
115 58.0 29.8 89.3
150 150.3 0.0 349.2



#73
Isopropylbenzene
Concen: 1.015 ug/l
RT: 12.473 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

Tgt Ion:105 Resp: 4124
Ion Ratio Lower Upper
105 100
120 18.3 13.2 39.5

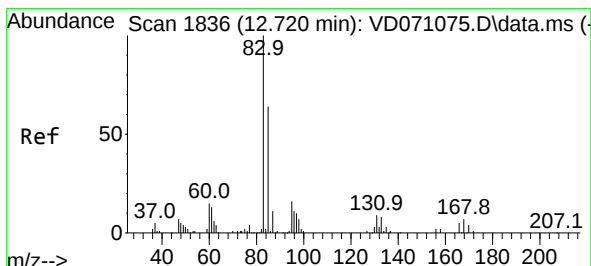
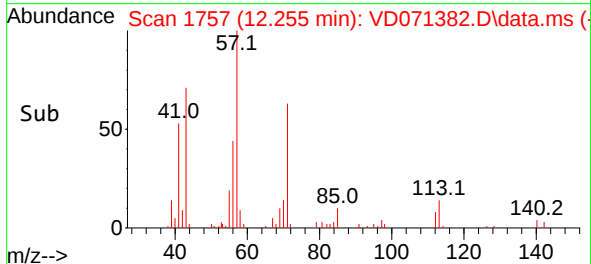
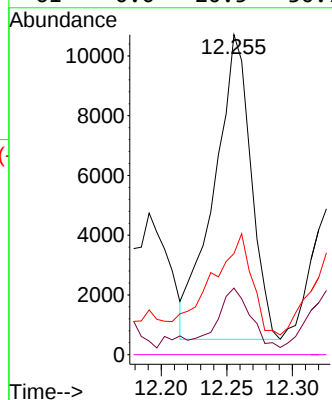
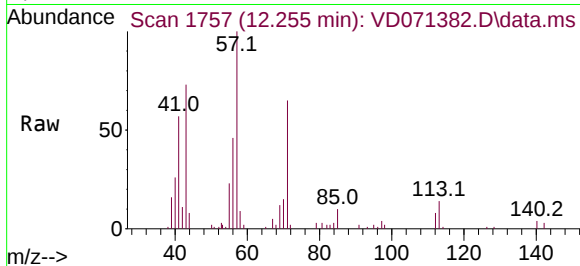




#74
N-amy1 acetate
Concen: 21.629 ug/l
RT: 12.255 min Scan# 1757
Delta R.T. -0.024 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

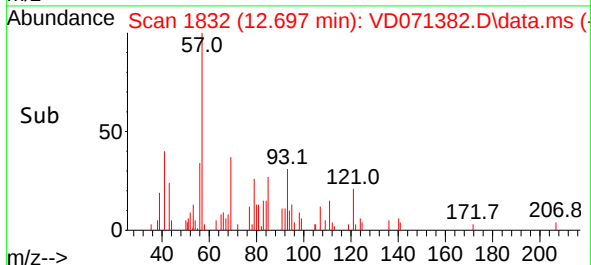
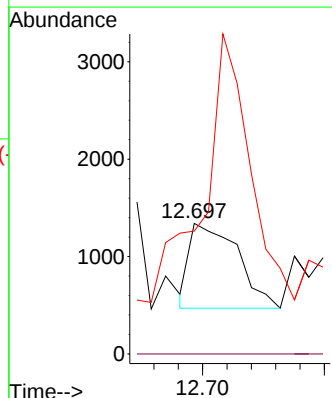
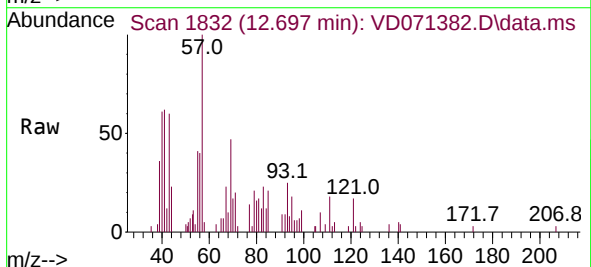
Instrument :
MSVOA_D
ClientSampleId :

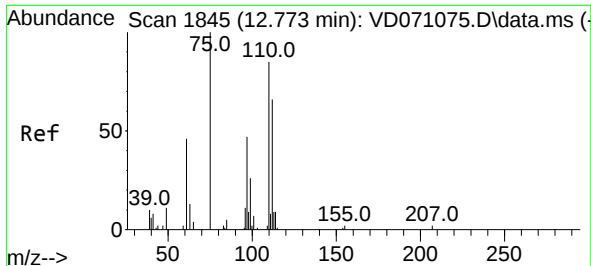
Tgt Ion: 43	Resp: 19998
Ion Ratio	Lower Upper
43 100	
70 16.6	36.6 55.0#
55 35.7	22.5 33.7#
61 0.0	20.5 30.7#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.794 ug/l
RT: 12.697 min Scan# 1832
Delta R.T. -0.023 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

Tgt Ion: 83	Resp: 1200
Ion Ratio	Lower Upper
83 100	
131 0.0	4.9 14.7#
85 301.2	32.0 96.2#

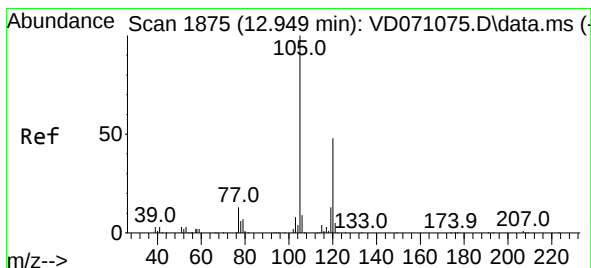
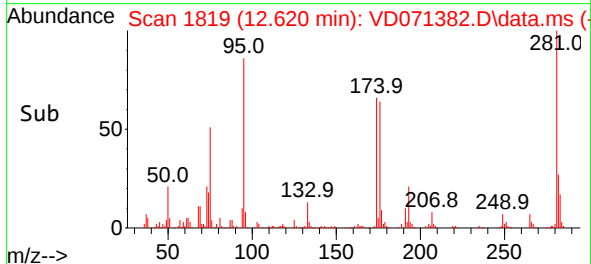
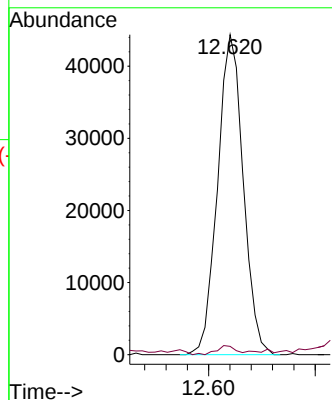
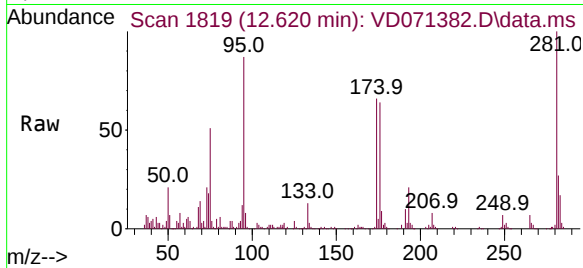




#76
 1,2,3-Trichloropropane
 Concen: 138.407 ug/l
 RT: 12.620 min Scan# 1819
 Delta R.T. -0.153 min
 Lab File: VD071382.D
 Acq: 17 Dec 2021 14:54

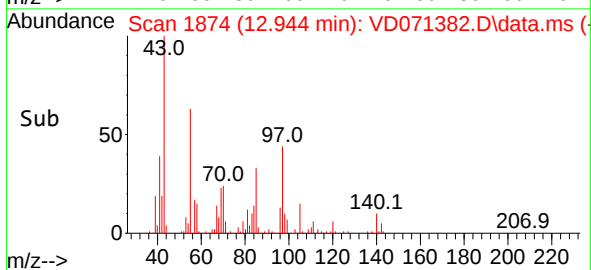
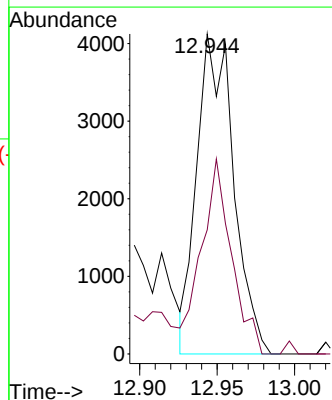
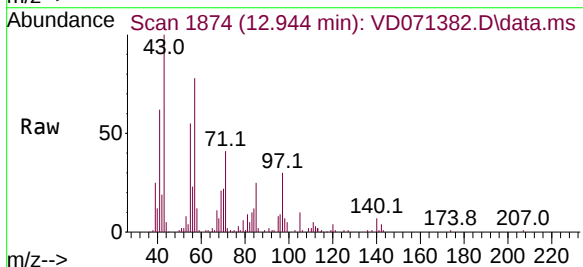
Instrument :
 MSVOA_D
 ClientSampleId :

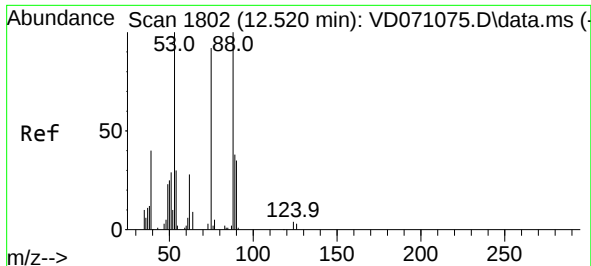
Tgt Ion: 75 Resp: 73991
 Ion Ratio Lower Upper
 75 100
 77 2.0 158.4 475.3#



#80
 1,3,5-Trimethylbenzene
 Concen: 2.015 ug/l
 RT: 12.944 min Scan# 1874
 Delta R.T. -0.005 min
 Lab File: VD071382.D
 Acq: 17 Dec 2021 14:54

Tgt Ion: 105 Resp: 6752
 Ion Ratio Lower Upper
 105 100
 120 50.0 24.6 73.8

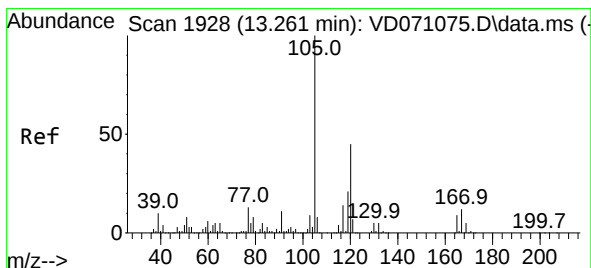
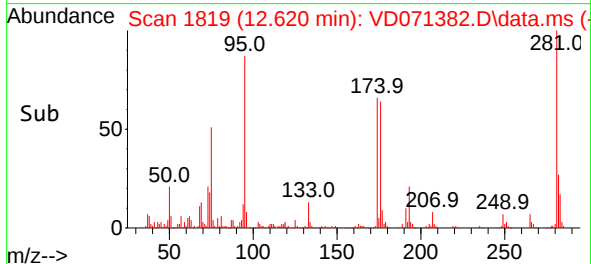
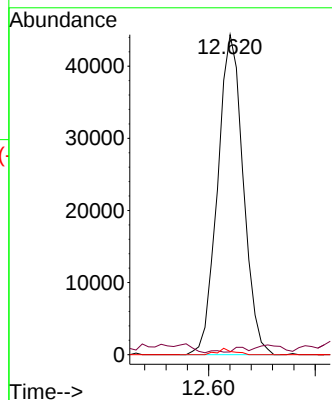
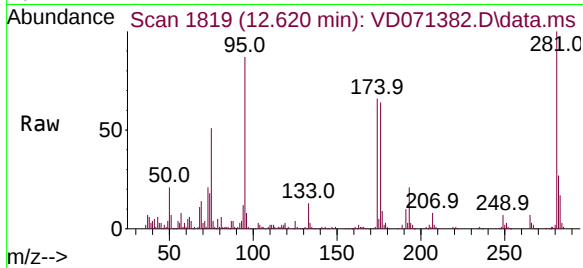




#81
trans-1,4-Dichloro-2-butene
Concen: 292.116 ug/l
RT: 12.620 min Scan# 1802
Delta R.T. 0.100 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

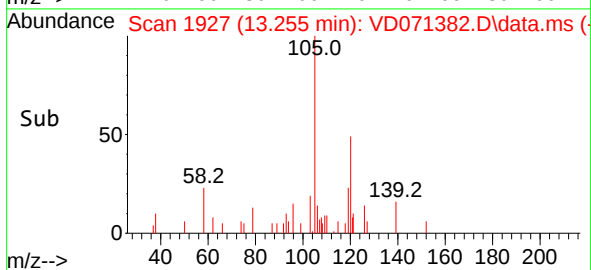
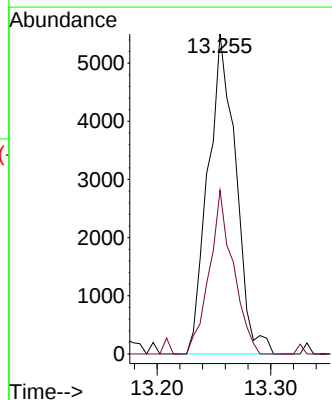
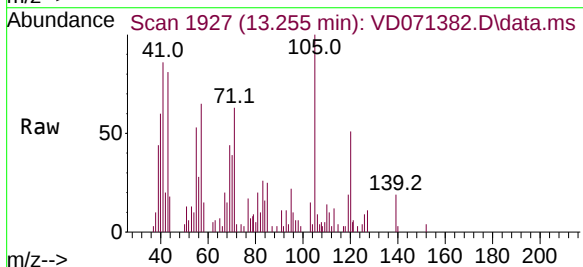
Instrument :
MSVOA_D
ClientSampleId :

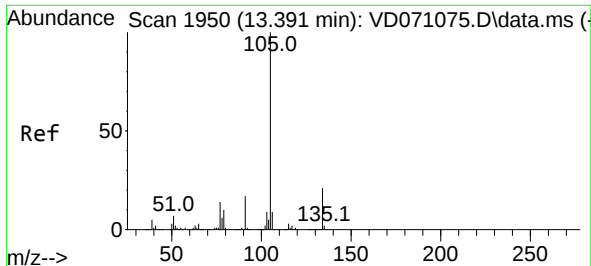
Tgt Ion: 75 Resp: 73991
Ion Ratio Lower Upper
75 100
53 0.3 62.6 94.0#
89 1.2 34.5 51.7#



#84
1,2,4-Trimethylbenzene
Concen: 2.858 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. -0.006 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

Tgt Ion:105 Resp: 9349
Ion Ratio Lower Upper
105 100
120 43.9 22.9 68.7

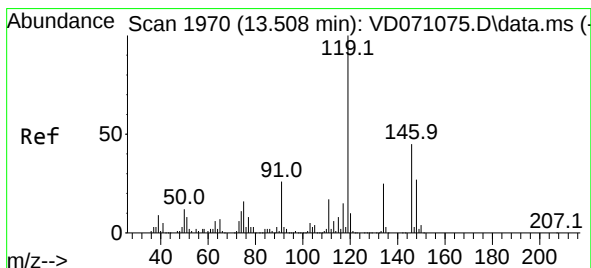
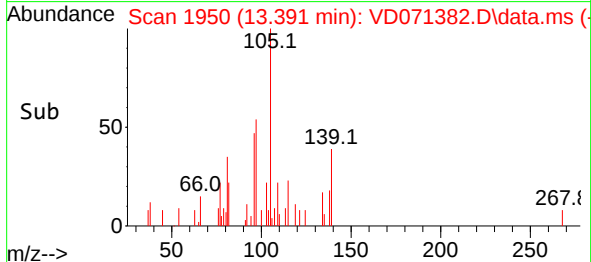
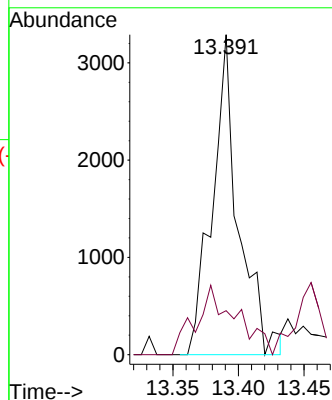
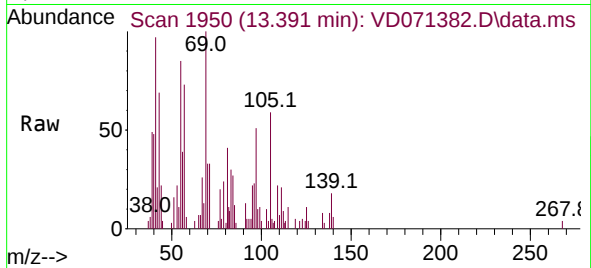




#85
 sec-Butylbenzene
 Concen: 1.036 ug/l
 RT: 13.391 min Scan# 1950
 Delta R.T. -0.000 min
 Lab File: VD071382.D
 Acq: 17 Dec 2021 14:54

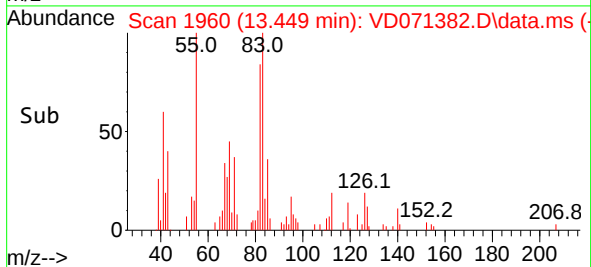
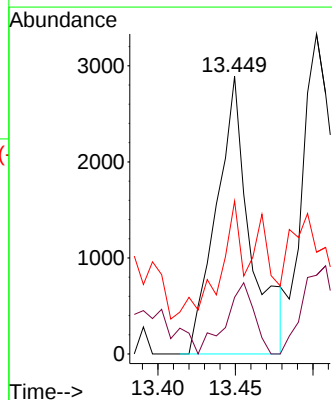
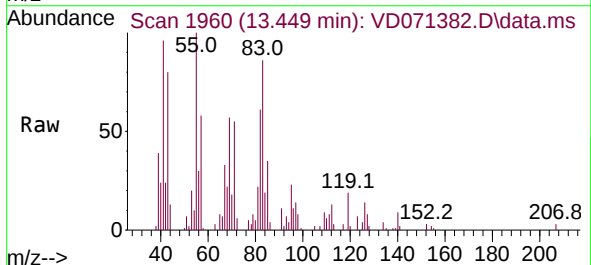
Instrument :
 MSVOA_D
 ClientSampleId :

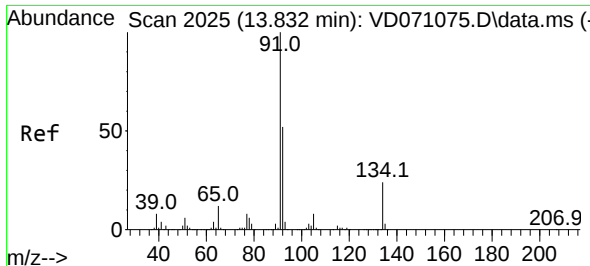
Tgt Ion:105 Resp: 4553
 Ion Ratio Lower Upper
 105 100
 134 33.3 9.7 28.9#



#86
 p-Isopropyltoluene
 Concen: 1.226 ug/l
 RT: 13.449 min Scan# 1960
 Delta R.T. -0.059 min
 Lab File: VD071382.D
 Acq: 17 Dec 2021 14:54

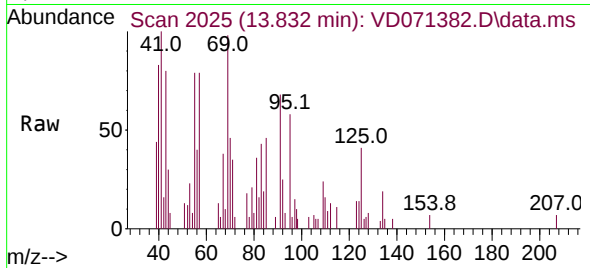
Tgt Ion:119 Resp: 4405
 Ion Ratio Lower Upper
 119 100
 134 21.3 13.0 38.9
 91 27.4 11.4 34.2



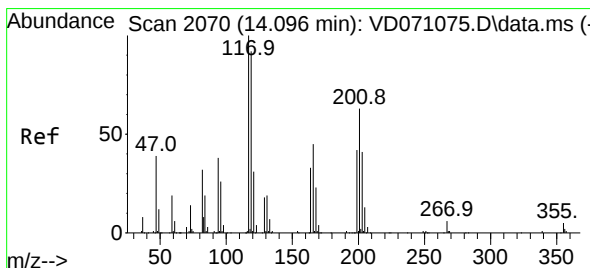
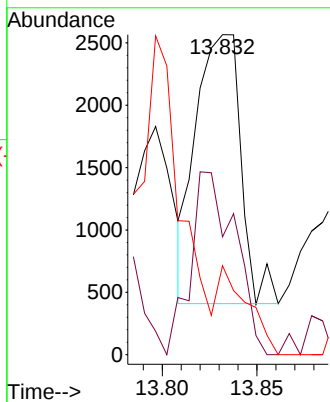
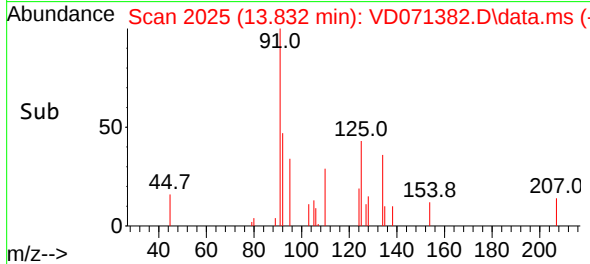


#89
n-Butylbenzene
Concen: 1.016 ug/l
RT: 13.832 min Scan# 2025
Delta R.T. -0.000 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 91 Resp: 3566
Ion Ratio Lower Upper
91 100
92 66.8 27.3 81.9
134 21.6 12.3 36.9



#90
Hexachloroethane
Concen: 1.826 ug/l
RT: 14.096 min Scan# 2070
Delta R.T. 0.000 min
Lab File: VD071382.D
Acq: 17 Dec 2021 14:54

Tgt Ion: 117 Resp: 1244
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#

