

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD092022\
 Data File : VD074370.D
 Acq On : 20 Sep 2022 17:19
 Operator : VA/SY
 Sample : N4668-03
 Misc : 6.05G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 D22006-5.5

Quant Time: Sep 21 02:25:10 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D091622S.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 17 04:16:54 2022
 Response via : Initial Calibration

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

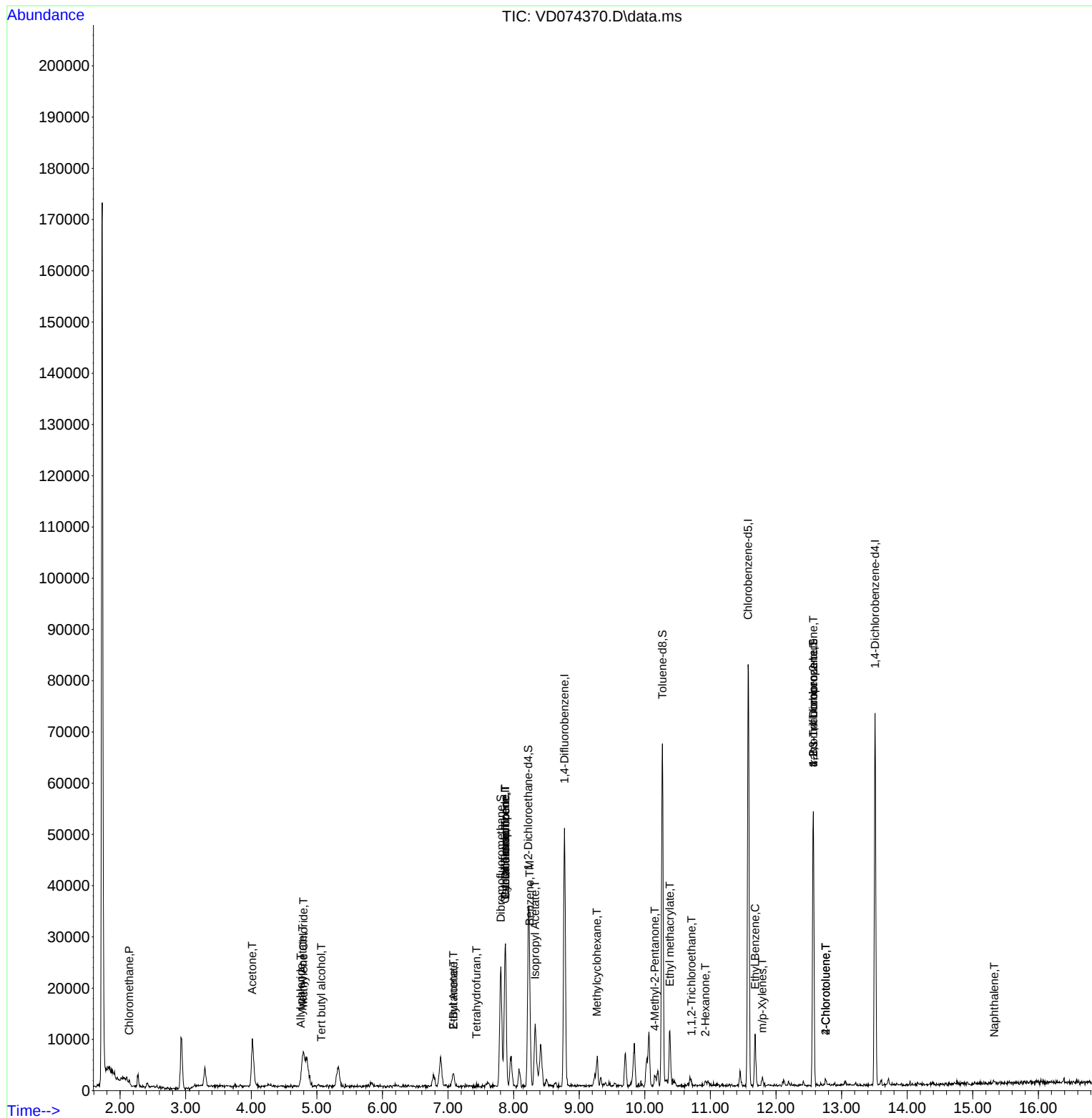
Internal Standards						
1) Pentafluorobenzene	7.875	168	19566	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	43605	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.575	117	44344	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.510	152	18729	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.222	65	25941	136.119	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 272.240%#	
35) Dibromofluoromethane	7.805	113	16437	57.235	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 114.460%	
50) Toluene-d8	10.269	98	47103	47.534	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 95.060%	
62) 4-Bromofluorobenzene	12.569	95	17230	51.475	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 102.940%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.140	50	1134	6.616	ug/l #	88
11) Tert butyl alcohol	5.069	59	169	13.122	ug/l #	74
14) Allyl chloride	4.758	41	656	2.160	ug/l #	31
16) Acetone	4.017	43	14641	341.002	ug/l	95
18) Methyl Acetate	4.781	43	2487	20.372	ug/l #	51
20) Methylene Chloride	4.793	84	3674	5.965	ug/l	94
25) 2-Butanone	7.081	43	3646	57.014	ug/l #	89
29) Tetrahydrofuran	7.434	42	86	2.347	ug/l #	32
31) Cyclohexane	7.875	56	2276	5.694	ug/l #	78
36) 1,1-Dichloropropene	7.875	75	1632	3.723	ug/l #	42
37) Ethyl Acetate	7.081	43	3646	20.760	ug/l #	67
38) Carbon Tetrachloride	7.869	117	1920	4.942	ug/l #	11
39) Methylcyclohexane	9.269	83	2139	4.034	ug/l #	87
40) Benzene	8.246	78	5960	4.849	ug/l	95
43) Isopropyl Acetate	8.328	43	2950	9.104	ug/l #	51
51) 4-Methyl-2-Pentanone	10.151	43	1727	10.145	ug/l #	82
55) 1,1,2-Trichloroethane	10.710	97	341	1.628	ug/l #	15
56) Ethyl methacrylate	10.381	69	1178	4.293	ug/l #	49
59) 2-Hexanone	10.922	43	475	3.989	ug/l #	22
67) Ethyl Benzene	11.681	91	6933	4.137	ug/l	97
68) m/p-Xylenes	11.793	106	729	1.136	ug/l #	73
76) 1,2,3-Trichloropropane	12.569	75	8556	49.375	ug/l #	100
79) 2-Chlorotoluene	12.757	91	1402	1.488	ug/l #	40
81) trans-1,4-Dichloro-2-b...	12.569	75	8556	123.747	ug/l #	100
82) 4-Chlorotoluene	12.757	91	1402	1.435	ug/l #	40
95) Naphthalene	15.328	128	924	1.355	ug/l #	68

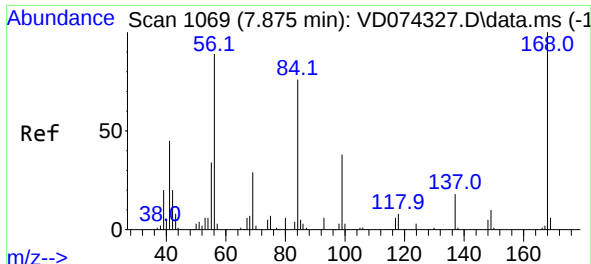
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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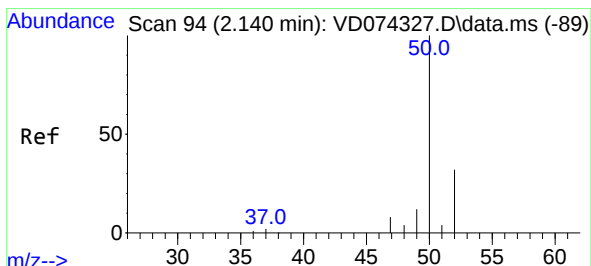
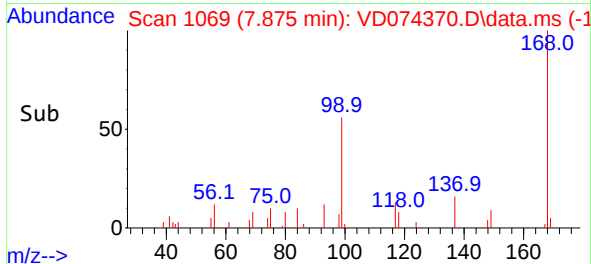
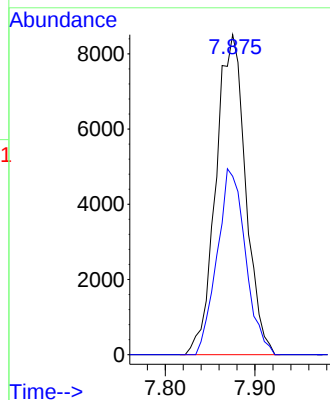
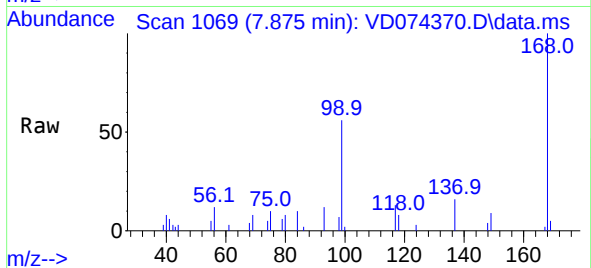




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

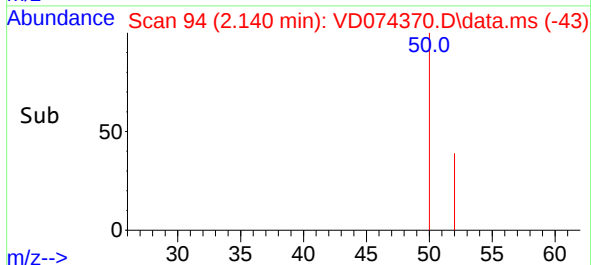
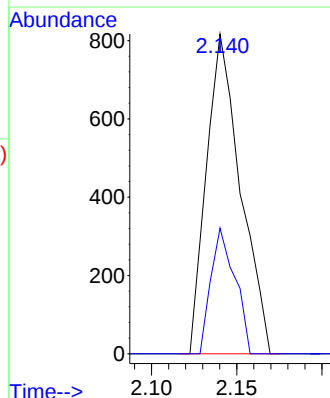
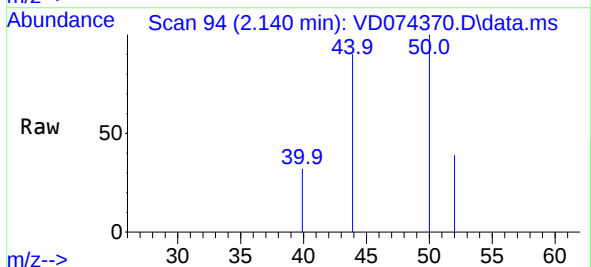
Instrument :
MSVOA_D
ClientSampleId :
D22006-5.5

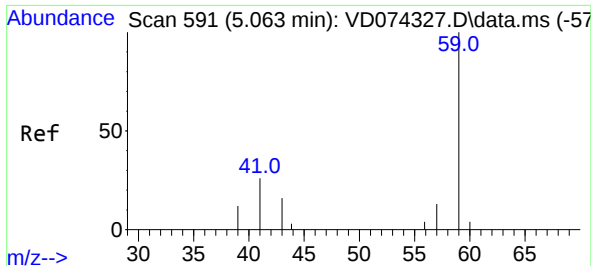
Tgt Ion:168 Resp: 19566
Ion Ratio Lower Upper
168 100
99 55.8 43.0 64.6



#3
Chloromethane
Concen: 6.616 ug/l
RT: 2.140 min Scan# 94
Delta R.T. 0.000 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Tgt Ion: 50 Resp: 1134
Ion Ratio Lower Upper
50 100
52 39.3 25.8 38.8#





#11

Tert butyl alcohol

Concen: 13.122 ug/l

RT: 5.069 min Scan# 51

Delta R.T. 0.006 min

Lab File: VD074370.D

Acq: 20 Sep 2022 17:19

Instrument :

MSVOA_D

ClientSampleId :

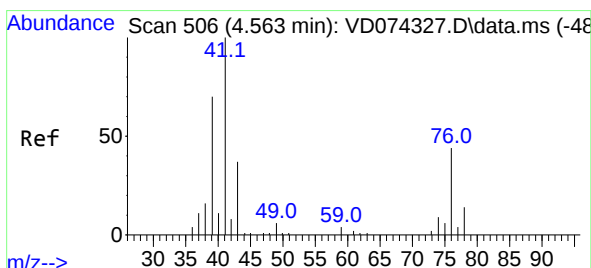
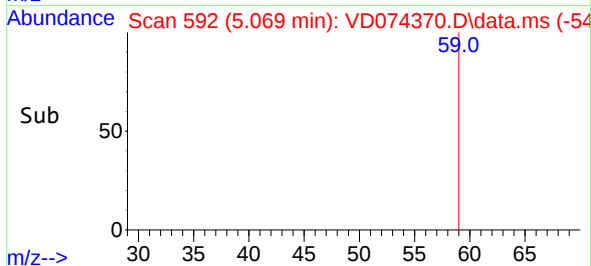
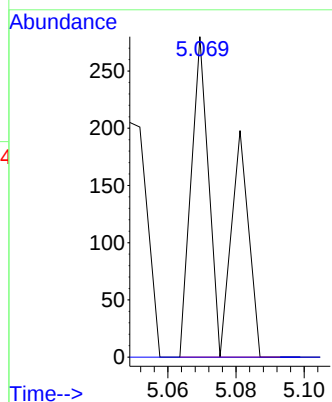
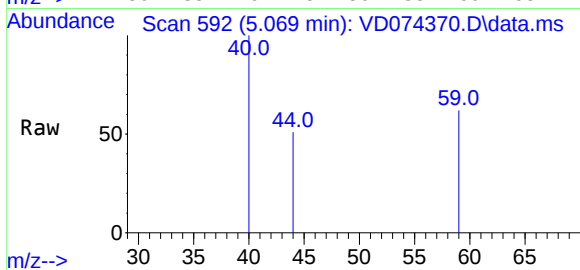
D22006-5.5

Tgt Ion: 59 Resp: 169

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



#14

Allyl chloride

Concen: 2.160 ug/l

RT: 4.758 min Scan# 539

Delta R.T. 0.195 min

Lab File: VD074370.D

Acq: 20 Sep 2022 17:19

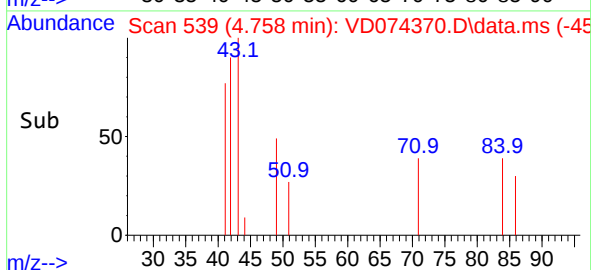
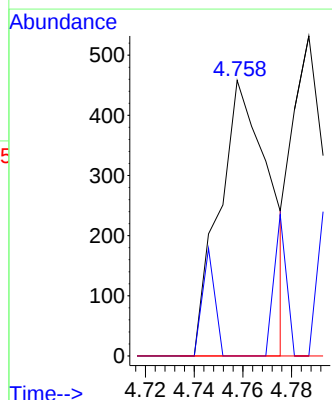
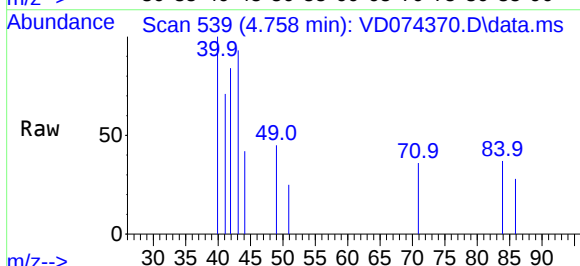
Tgt Ion: 41 Resp: 656

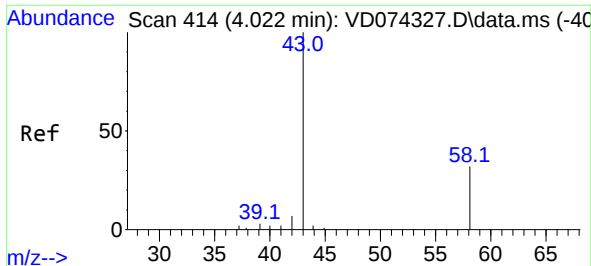
Ion Ratio Lower Upper

41 100

39 9.6 52.8 79.2#

76 0.0 32.9 49.3#

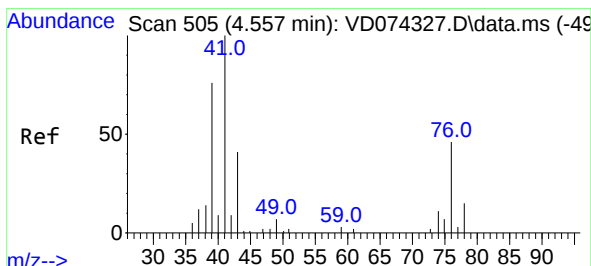
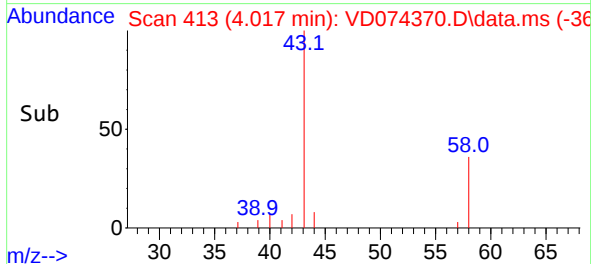
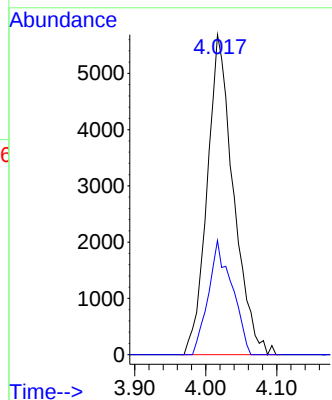
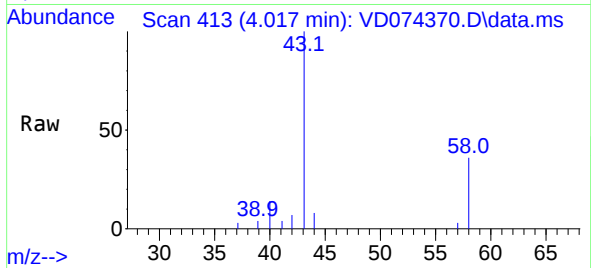




#16
Acetone
Concen: 341.002 ug/l
RT: 4.017 min Scan# 41
Delta R.T. -0.005 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

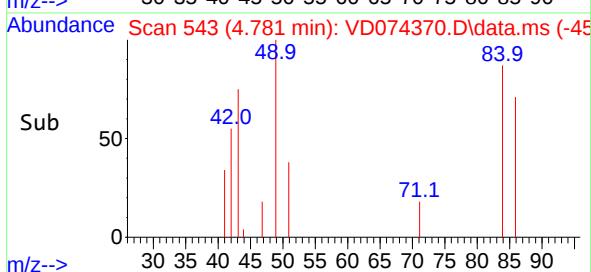
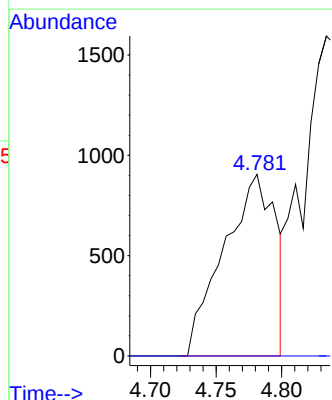
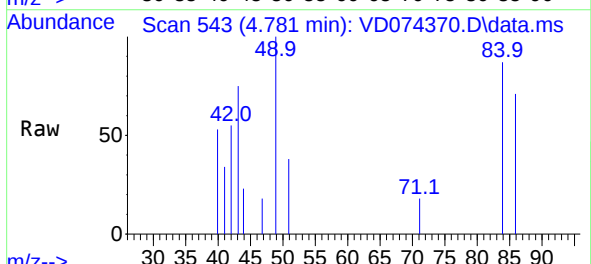
Instrument :
MSVOA_D
ClientSampleId :
D22006-5.5

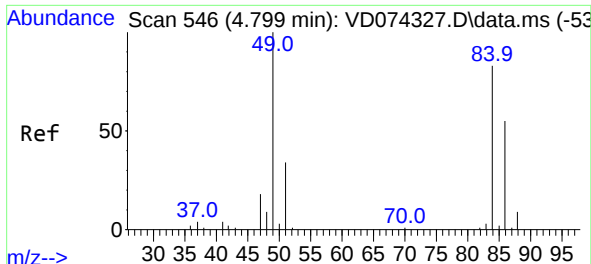
Tgt Ion: 43 Resp: 14641
Ion Ratio Lower Upper
43 100
58 35.7 26.4 39.6



#18
Methyl Acetate
Concen: 20.372 ug/l
RT: 4.781 min Scan# 543
Delta R.T. 0.224 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Tgt Ion: 43 Resp: 2487
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



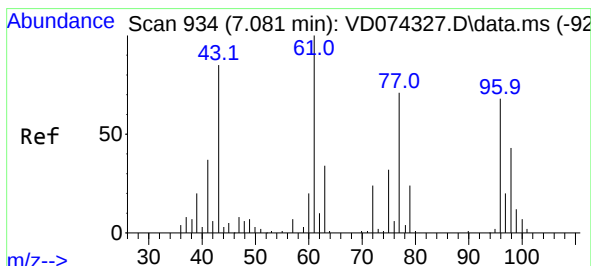
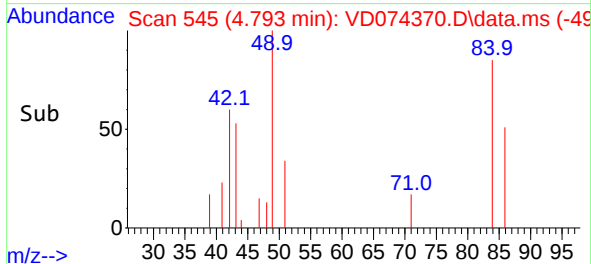
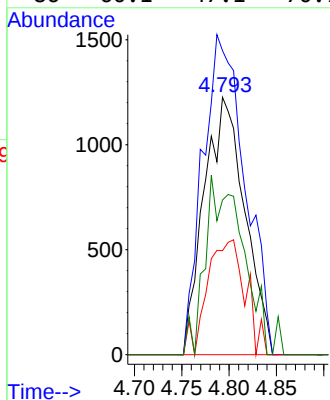
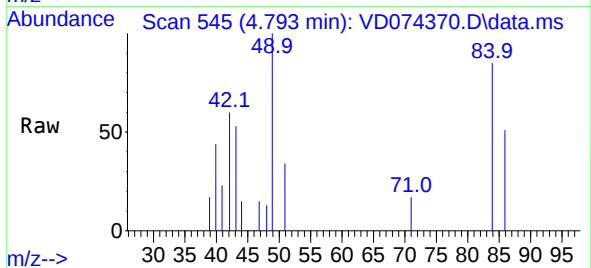


#20
Methylene Chloride
Concen: 5.965 ug/l
RT: 4.793 min Scan# 54
Delta R.T. -0.006 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Instrument :
MSVOA_D
ClientSampleId :
D22006-5.5

Tgt Ion: 84 Resp: 3674

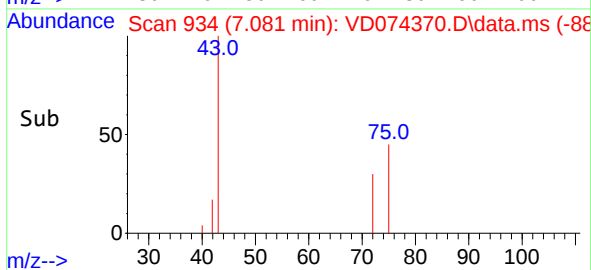
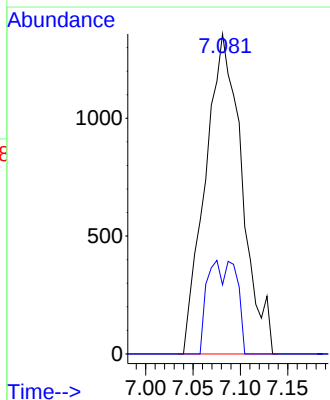
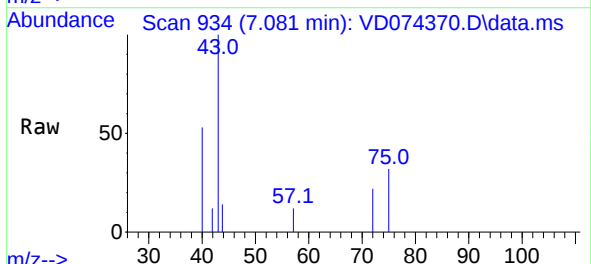
Ion	Ratio	Lower	Upper
84	100		
49	118.1	88.4	132.6
51	40.4	28.0	42.0
86	60.1	47.1	70.7

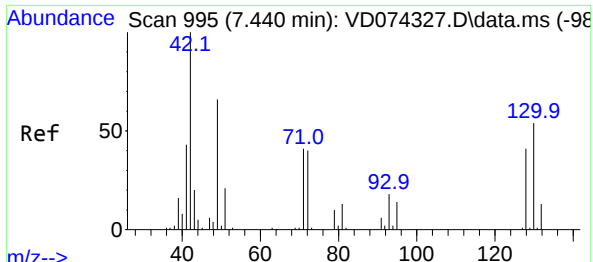


#25
2-Butanone
Concen: 57.014 ug/l
RT: 7.081 min Scan# 934
Delta R.T. 0.000 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Tgt Ion: 43 Resp: 3646

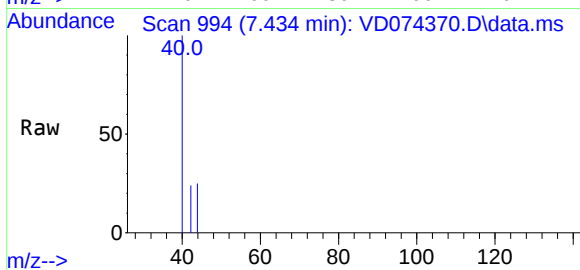
Ion	Ratio	Lower	Upper
43	100		
72	21.6	21.8	32.6#





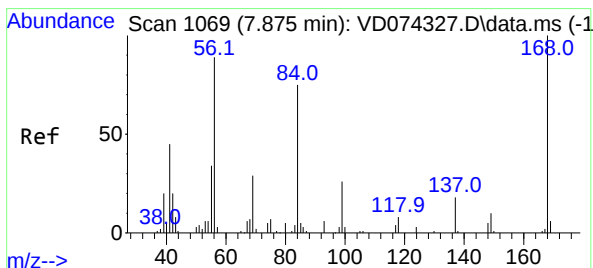
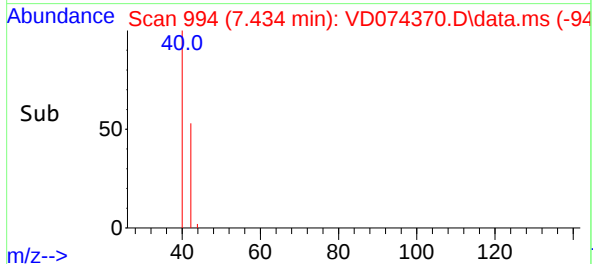
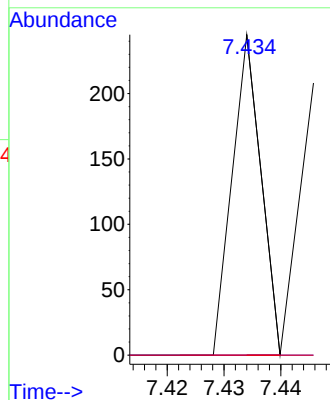
#29
Tetrahydrofuran
Concen: 2.347 ug/l
RT: 7.434 min Scan# 994
Delta R.T. -0.006 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Instrument :
MSVOA_D
ClientSampleId :
D22006-5.5



Tgt Ion: 42 Resp: 86

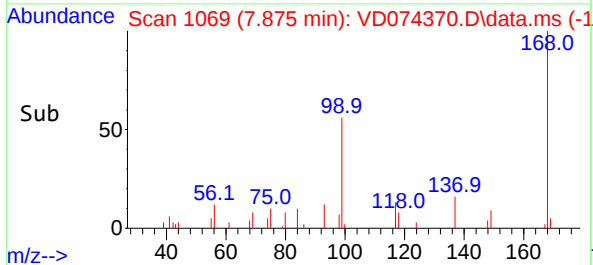
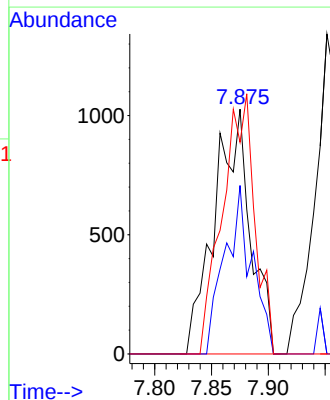
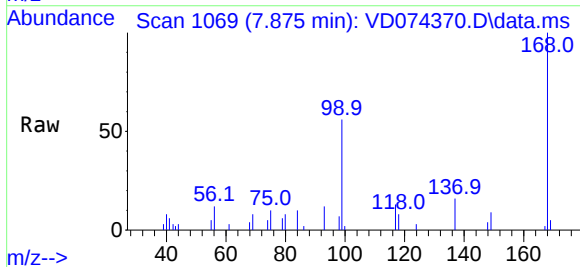
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.1	54.1#
71	0.0	34.1	51.1#

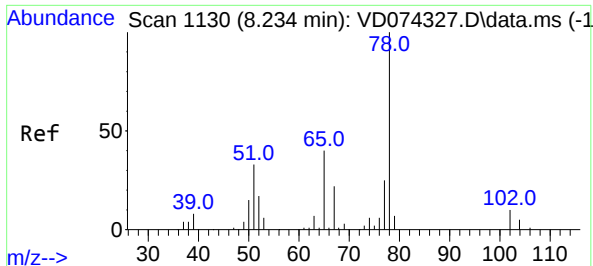


#31
Cyclohexane
Concen: 5.694 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Tgt Ion: 56 Resp: 2276

Ion	Ratio	Lower	Upper
56	100		
69	68.8	25.7	38.5#
84	86.5	73.9	110.9





#33

1,2-Dichloroethane-d4

Concen: 136.119 ug/l

RT: 8.222 min Scan# 1128

Delta R.T. -0.012 min

Lab File: VD074370.D

Acq: 20 Sep 2022 17:19

Instrument :

MSVOA_D

ClientSampleId :

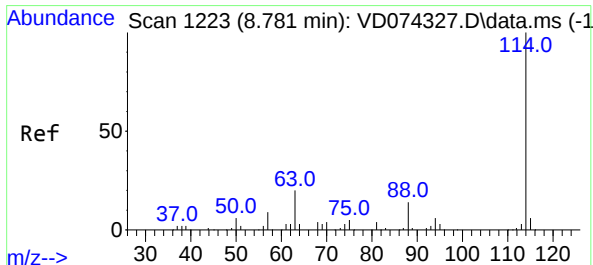
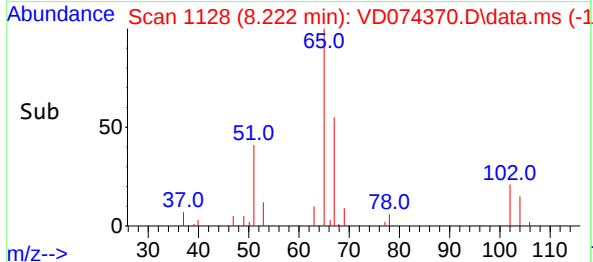
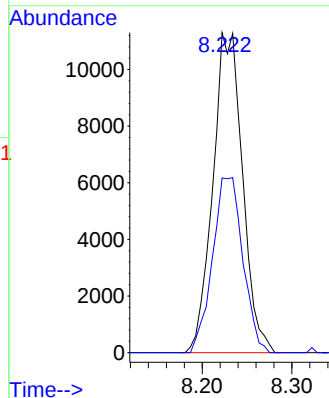
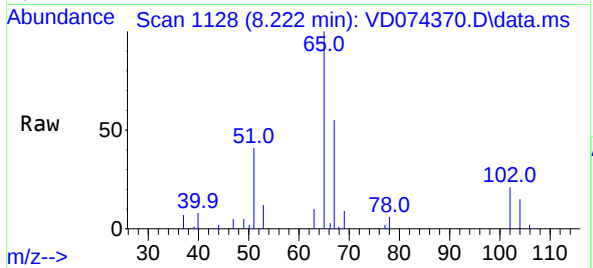
D22006-5.5

Tgt Ion: 65 Resp: 25941

Ion Ratio Lower Upper

65 100

67 56.0 0.0 110.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.006 min

Lab File: VD074370.D

Acq: 20 Sep 2022 17:19

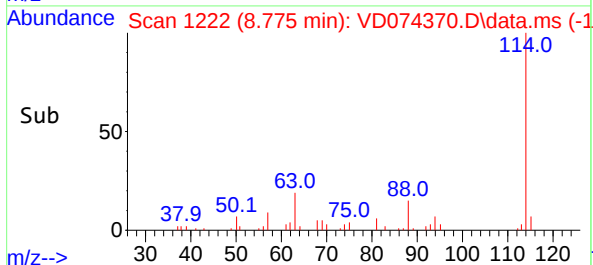
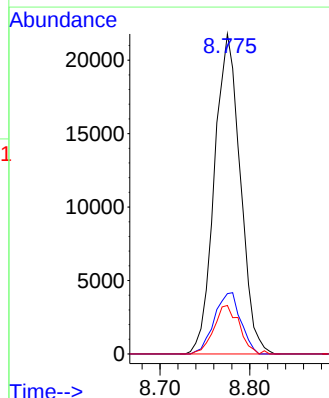
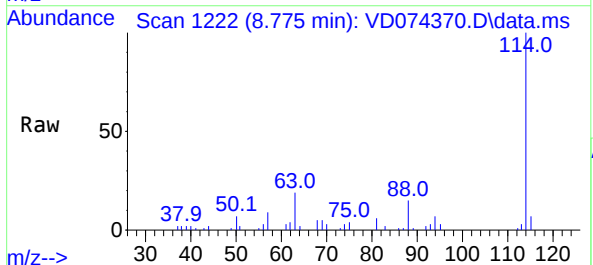
Tgt Ion: 114 Resp: 43605

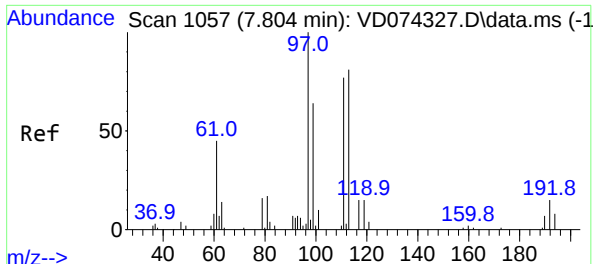
Ion Ratio Lower Upper

114 100

63 18.8 0.0 37.6

88 15.1 0.0 28.4



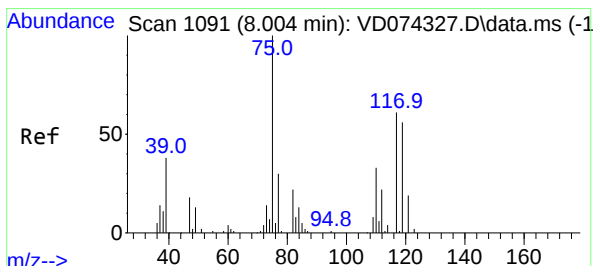
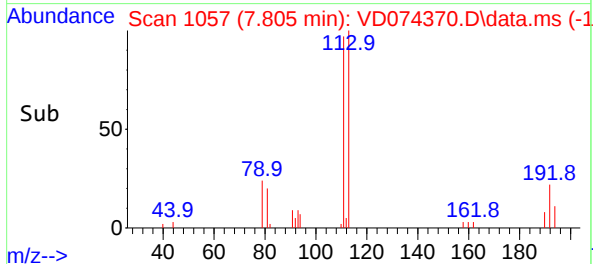
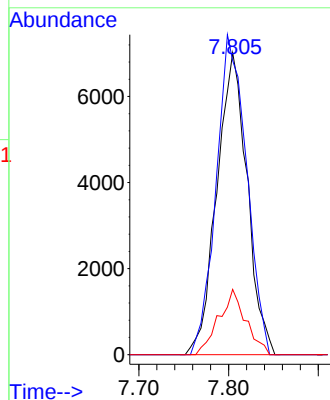
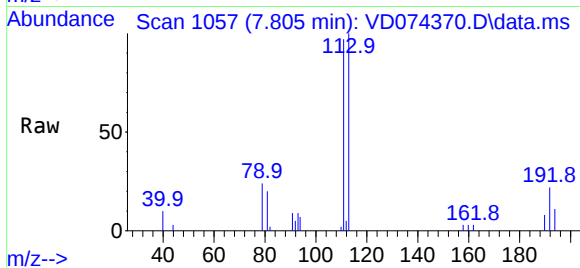


#35
Dibromofluoromethane
Concen: 57.235 ug/l
RT: 7.805 min Scan# 1057
Delta R.T. 0.001 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Instrument :
MSVOA_D
ClientSampleId :
D22006-5.5

Tgt Ion: 113 Resp: 16437

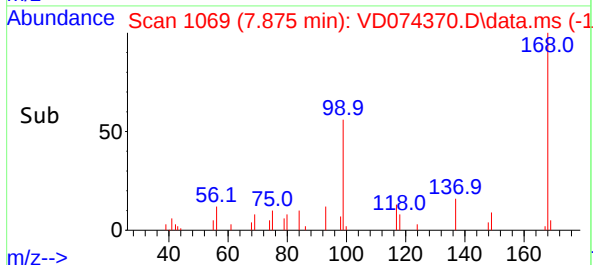
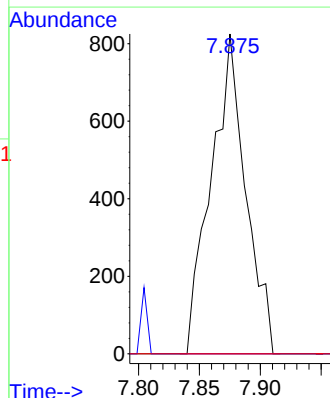
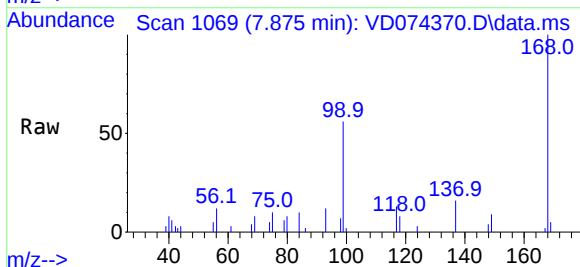
Ion	Ratio	Lower	Upper
113	100		
111	106.2	83.0	124.6
192	19.4	16.2	24.2

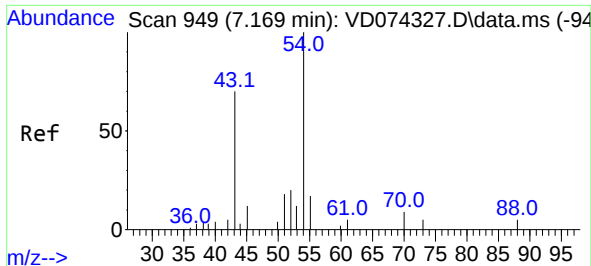


#36
1,1-Dichloropropene
Concen: 3.723 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.129 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Tgt Ion: 75 Resp: 1632

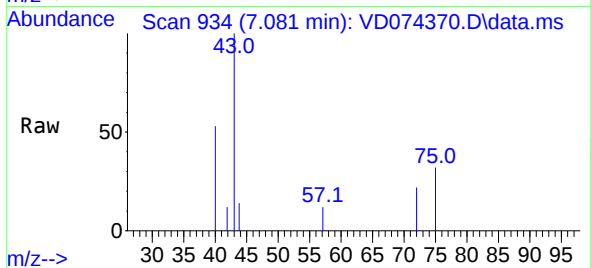
Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.5	52.5#
77	0.0	24.8	37.2#



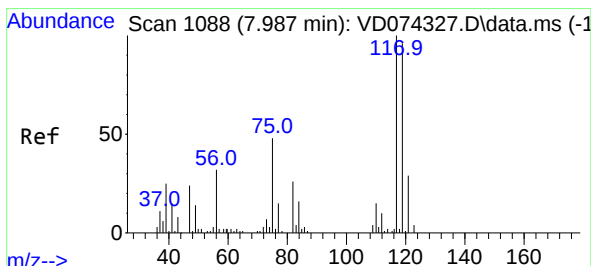
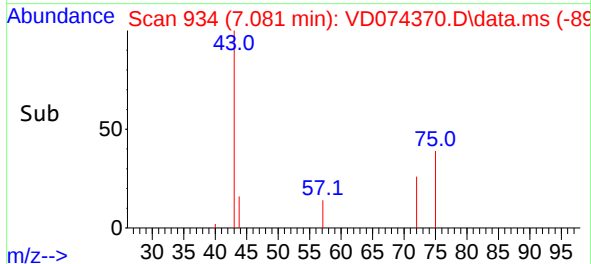
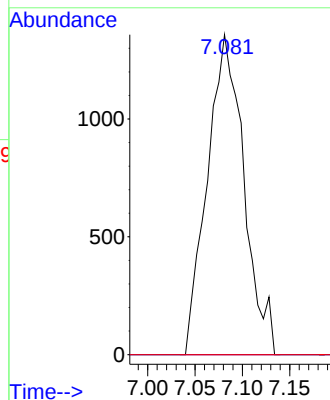


#37
Ethyl Acetate
Concen: 20.760 ug/l
RT: 7.081 min Scan# 91
Delta R.T. -0.088 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Instrument :
MSVOA_D
ClientSampleId :
D22006-5.5

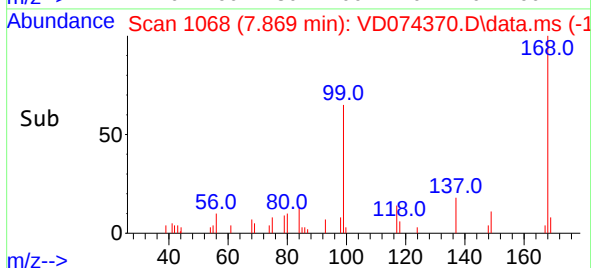
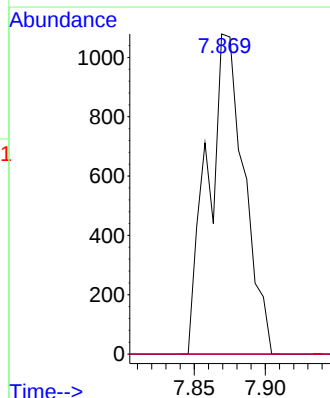
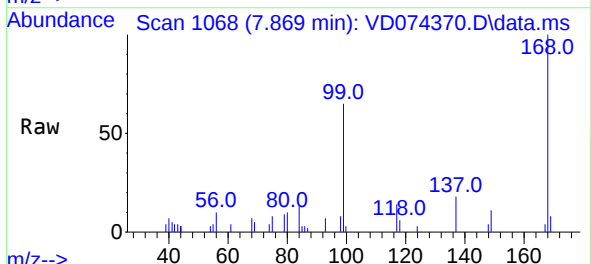


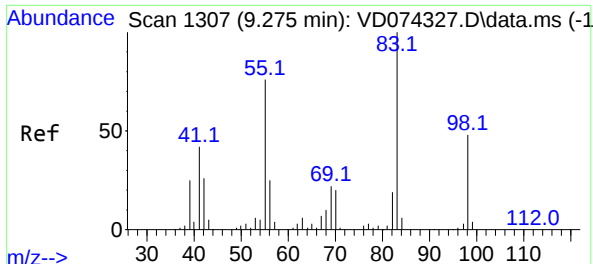
Tgt Ion: 43 Resp: 3646
Ion Ratio Lower Upper
43 100
61 0.0 12.1 18.1#
70 0.0 8.5 12.7#



#38
Carbon Tetrachloride
Concen: 4.942 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.118 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Tgt Ion: 117 Resp: 1920
Ion Ratio Lower Upper
117 100
119 0.0 78.8 118.2#
121 0.0 23.9 35.9#

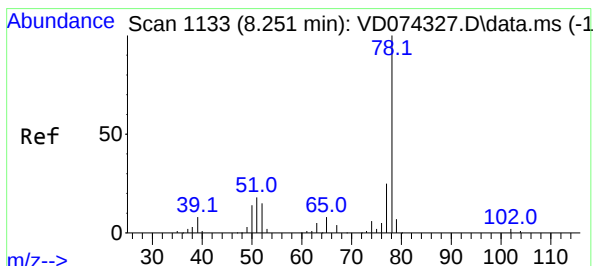
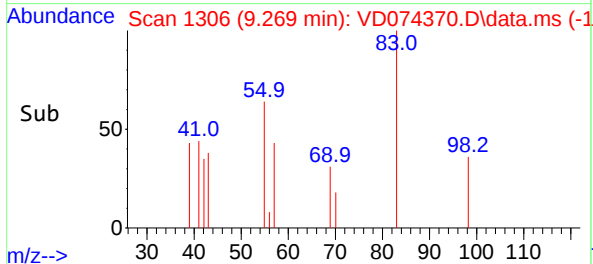
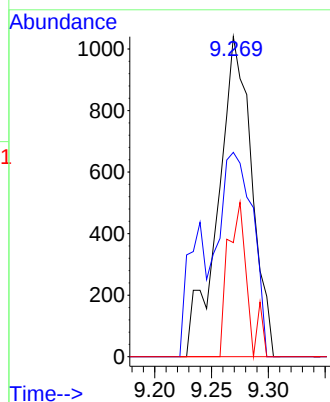
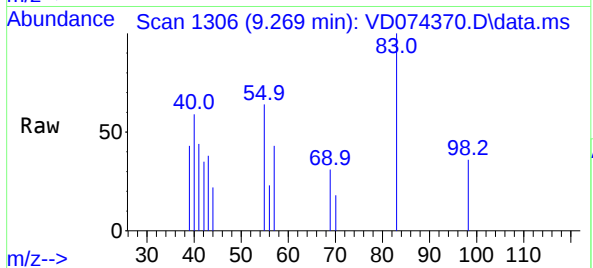




#39
Methylcyclohexane
Concen: 4.034 ug/l
RT: 9.269 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

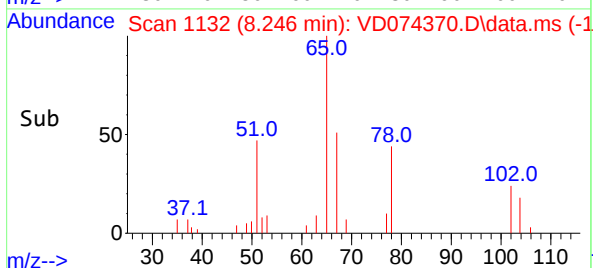
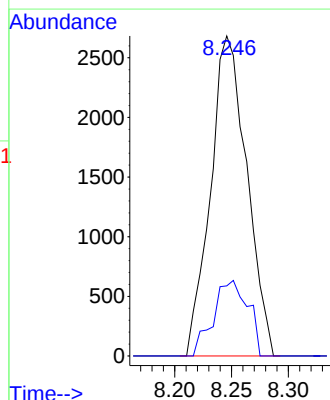
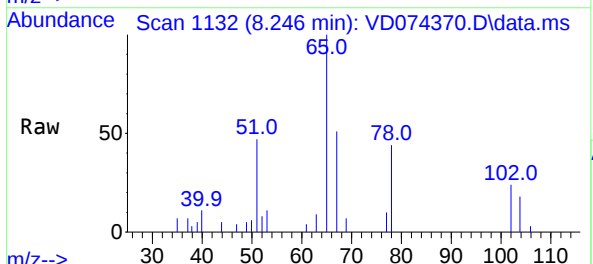
Instrument :
MSVOA_D
ClientSampleId :
D22006-5.5

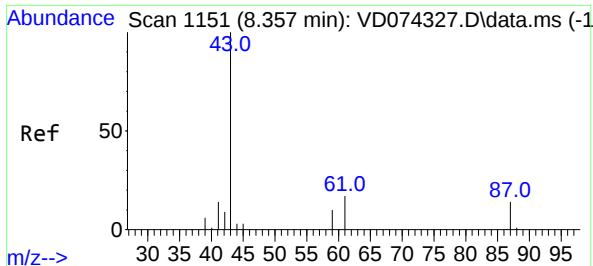
Tgt Ion: 83	Resp:	2139
Ion	Ratio	Lower Upper
83	100	
55	63.8	57.2 85.8
98	35.7	38.3 57.5#



#40
Benzene
Concen: 4.849 ug/l
RT: 8.246 min Scan# 1132
Delta R.T. -0.005 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Tgt Ion: 78	Resp:	5960
Ion	Ratio	Lower Upper
78	100	
77	21.9	19.4 29.2





#43

Isopropyl Acetate

Concen: 9.104 ug/l

RT: 8.328 min Scan# 1146

Delta R.T. -0.029 min

Lab File: VD074370.D

Acq: 20 Sep 2022 17:19

Instrument :

MSVOA_D

ClientSampleId :

D22006-5.5

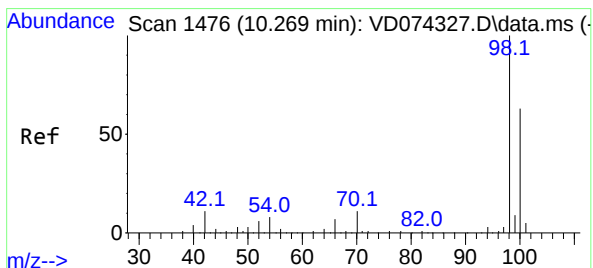
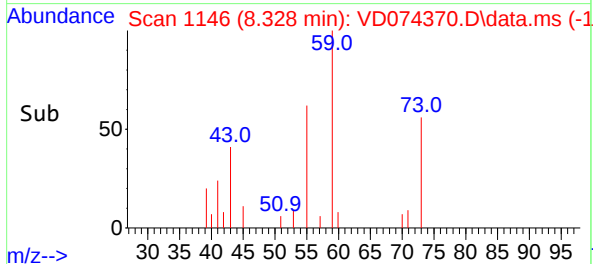
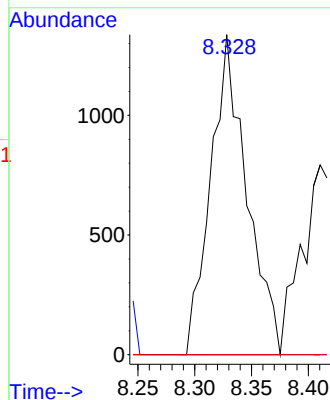
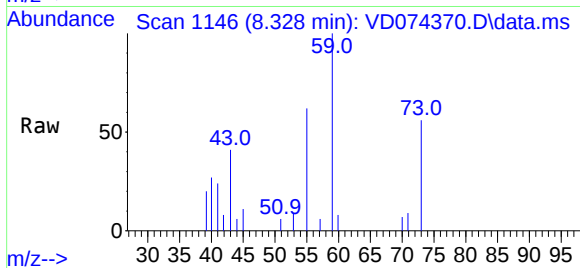
Tgt Ion: 43 Resp: 2950

Ion Ratio Lower Upper

43 100

61 0.0 24.5 36.7#

87 0.0 10.8 16.2#



#50

Toluene-d8

Concen: 47.534 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD074370.D

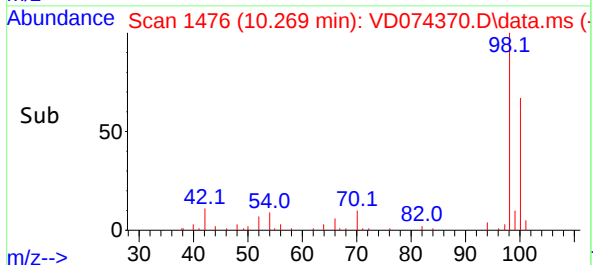
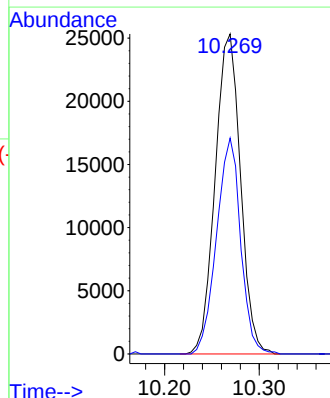
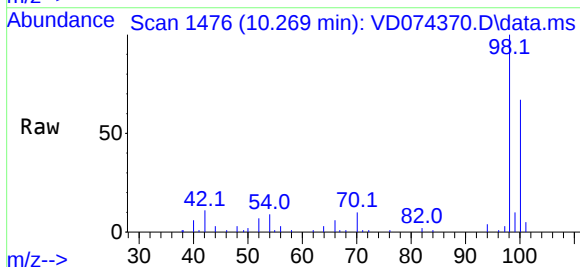
Acq: 20 Sep 2022 17:19

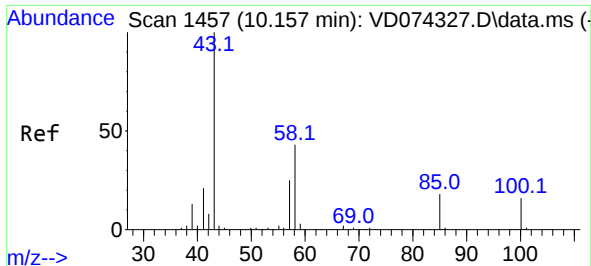
Tgt Ion: 98 Resp: 47103

Ion Ratio Lower Upper

98 100

100 64.1 51.8 77.8

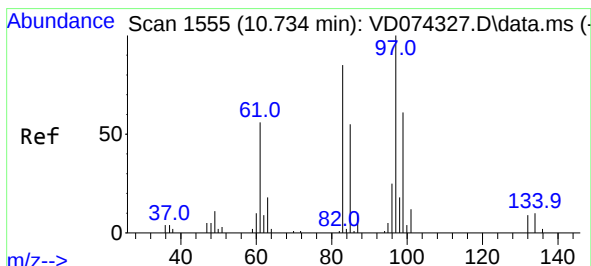
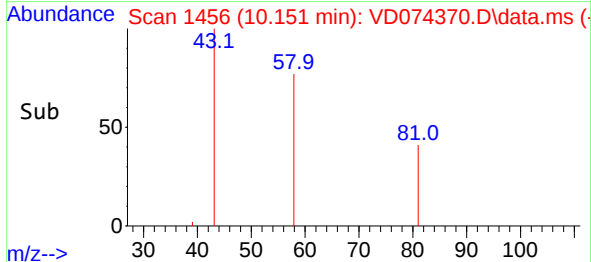
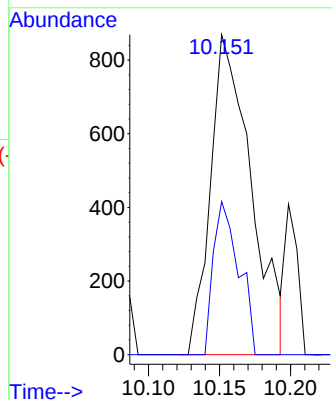
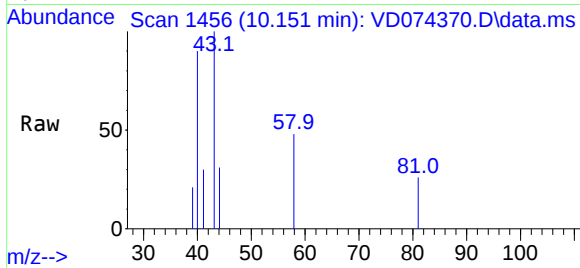




#51
4-Methyl-2-Pentanone
Concen: 10.145 ug/l
RT: 10.151 min Scan# 1456
Delta R.T. -0.006 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

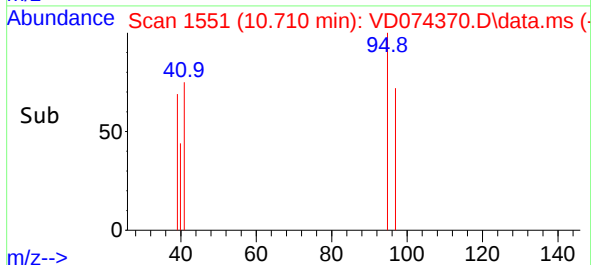
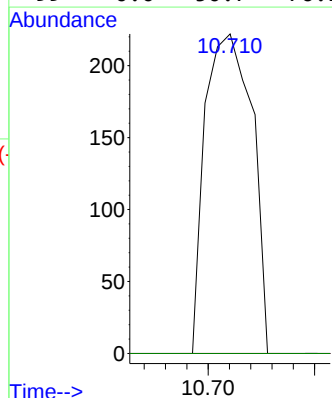
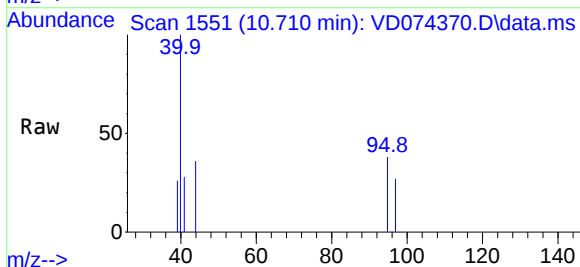
Instrument :
MSVOA_D
ClientSampleId :
D22006-5.5

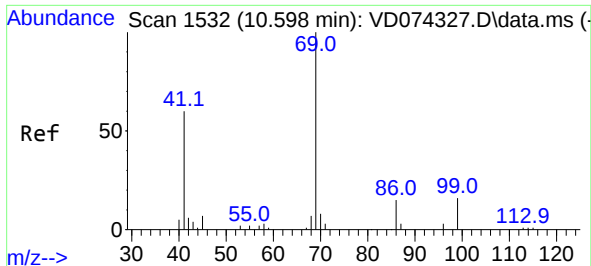
Tgt Ion: 43 Resp: 1727
Ion Ratio Lower Upper
43 100
58 30.1 33.3 49.9#



#55
1,1,2-Trichloroethane
Concen: 1.628 ug/l
RT: 10.710 min Scan# 1551
Delta R.T. -0.024 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Tgt Ion: 97 Resp: 341
Ion Ratio Lower Upper
97 100
83 0.0 68.0 102.0#
85 0.0 45.8 68.8#
99 0.0 50.7 76.1#

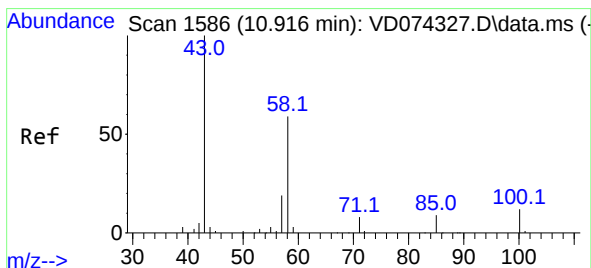
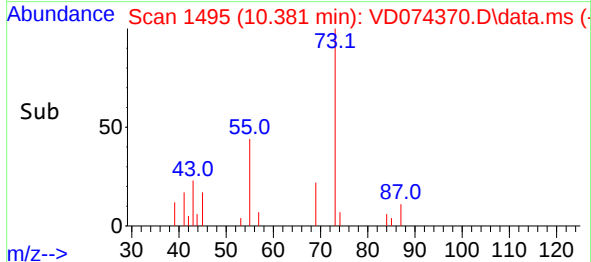
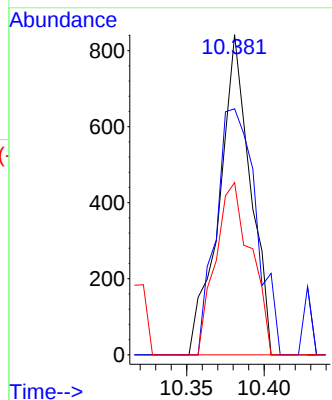
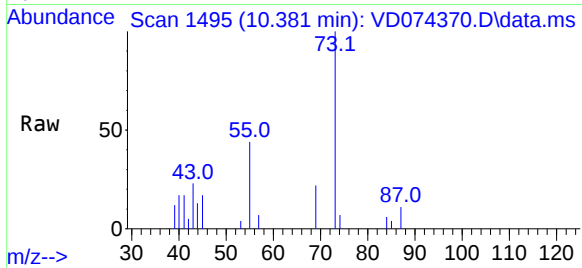




#56
Ethyl methacrylate
Concen: 4.293 ug/l
RT: 10.381 min Scan# 1495
Delta R.T. -0.217 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

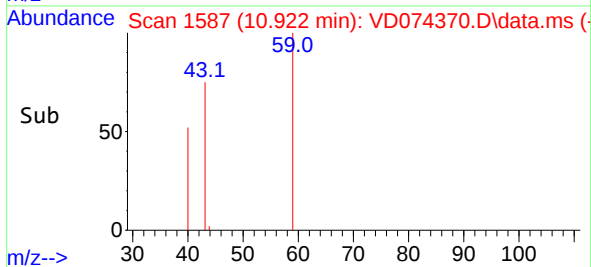
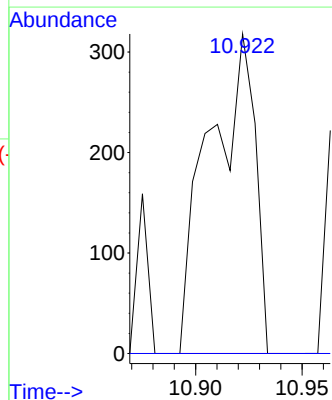
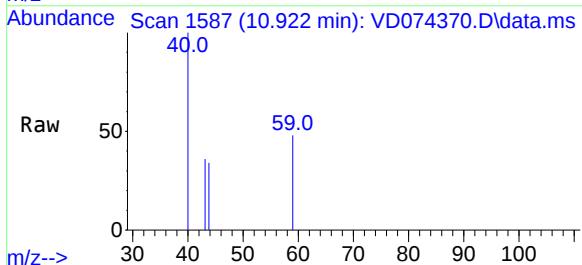
Instrument :
MSVOA_D
ClientSampleId :
D22006-5.5

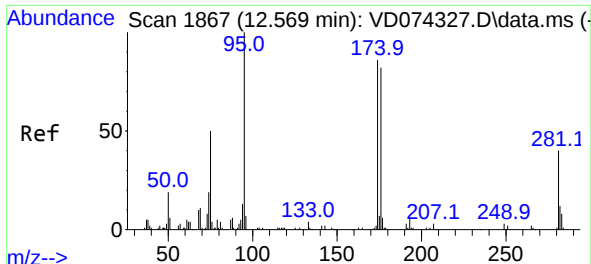
Tgt Ion: 69 Resp: 1178
Ion Ratio Lower Upper
69 100
41 98.5 49.4 74.2#
39 61.1 24.2 36.4#



#59
2-Hexanone
Concen: 3.989 ug/l
RT: 10.922 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Tgt Ion: 43 Resp: 475
Ion Ratio Lower Upper
43 100
58 0.0 28.6 85.8#

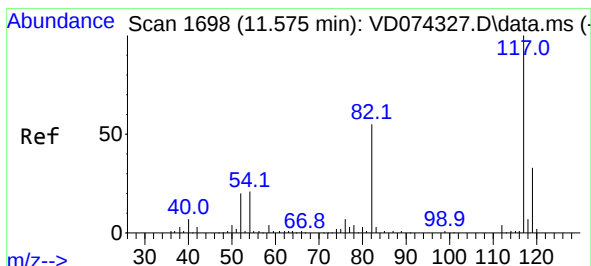
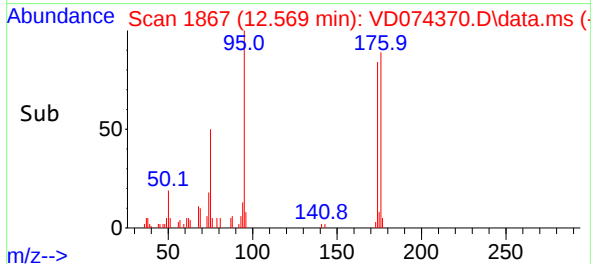
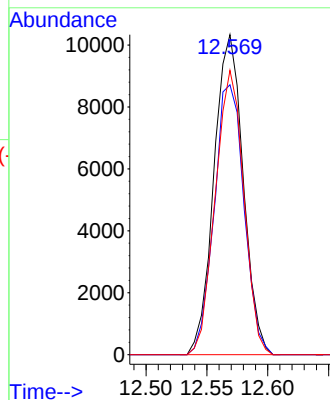
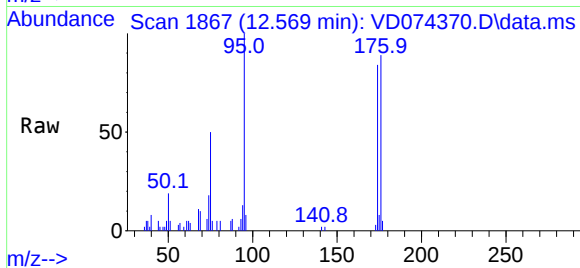




#62
4-Bromofluorobenzene
Concen: 51.475 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

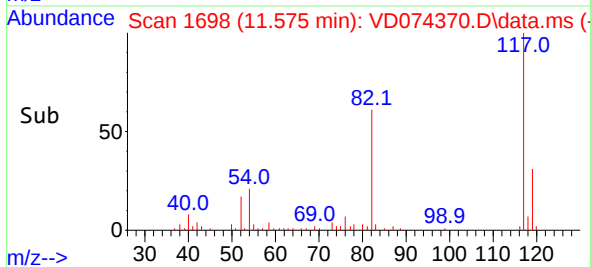
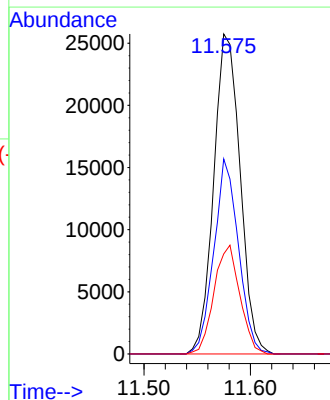
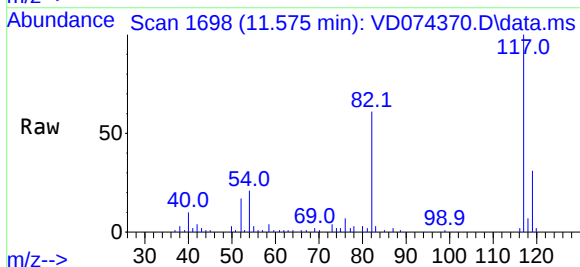
Instrument :
MSVOA_D
ClientSampleId :
D22006-5.5

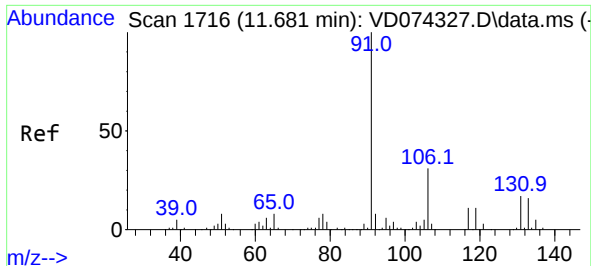
Tgt Ion:	95	Resp:	17230
Ion	Ratio	Lower	Upper
95	100		
174	86.3	0.0	179.2
176	86.5	0.0	171.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.575 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Tgt Ion:	117	Resp:	44344
Ion	Ratio	Lower	Upper
117	100		
82	61.0	44.2	66.2
119	31.3	25.4	38.0

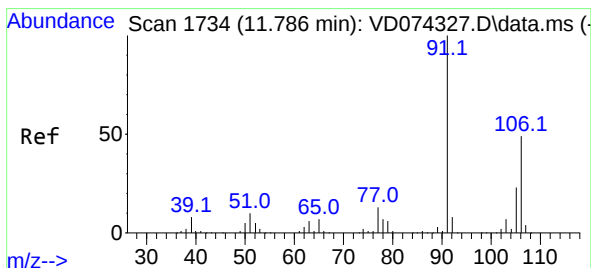
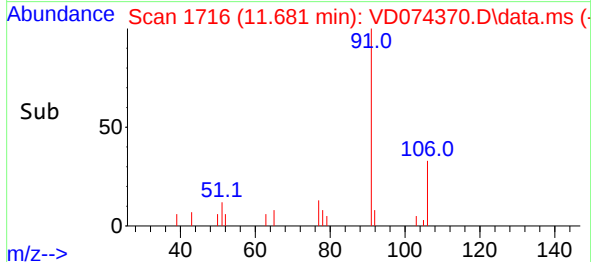
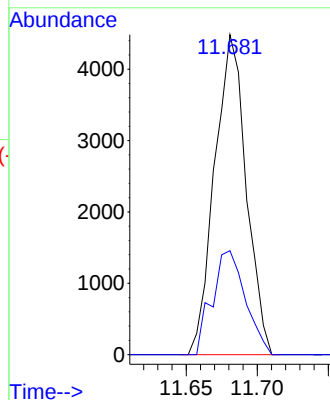
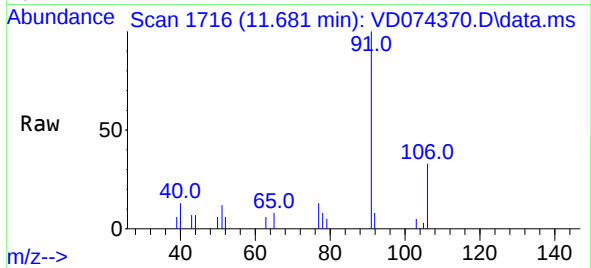




#67
Ethyl Benzene
Concen: 4.137 ug/l
RT: 11.681 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

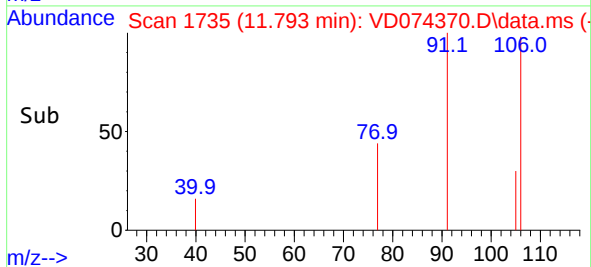
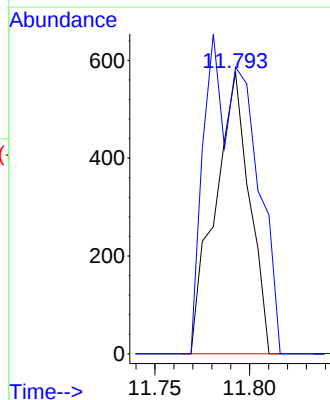
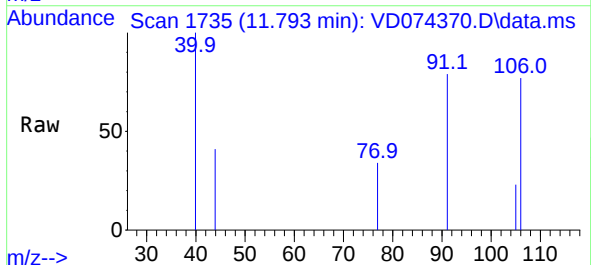
Instrument :
MSVOA_D
ClientSampleId :
D22006-5.5

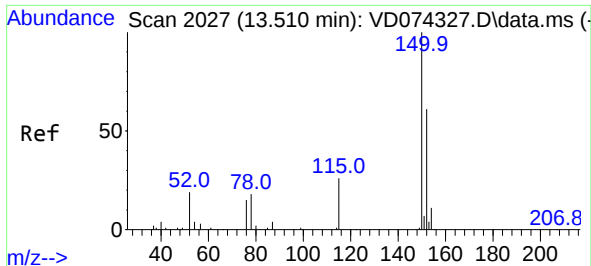
Tgt Ion: 91 Resp: 6933
Ion Ratio Lower Upper
91 100
106 32.5 24.8 37.2



#68
m/p-Xylenes
Concen: 1.136 ug/l
RT: 11.793 min Scan# 1735
Delta R.T. 0.007 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Tgt Ion: 106 Resp: 729
Ion Ratio Lower Upper
106 100
91 157.3 158.6 237.8#

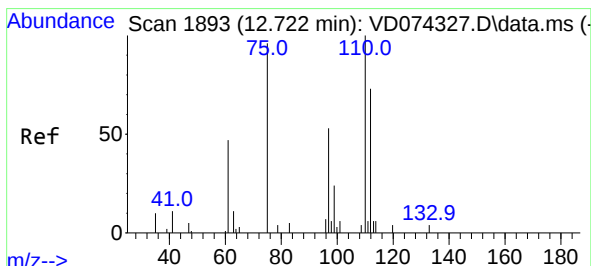
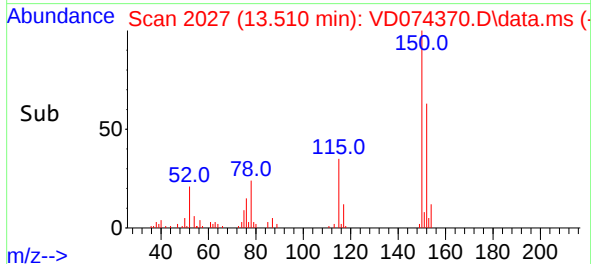
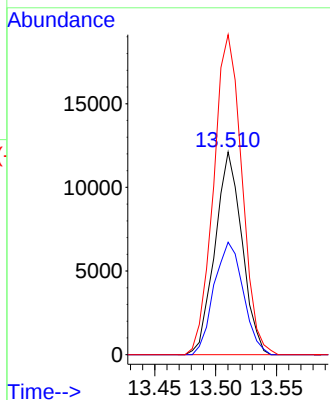
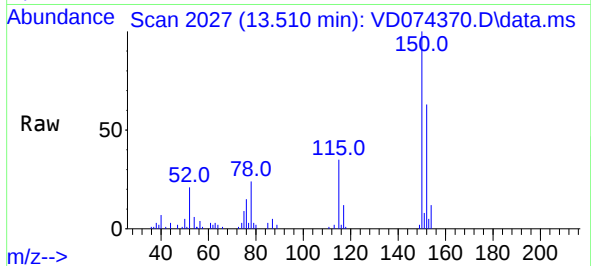




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.510 min Scan# 20
Delta R.T. 0.000 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

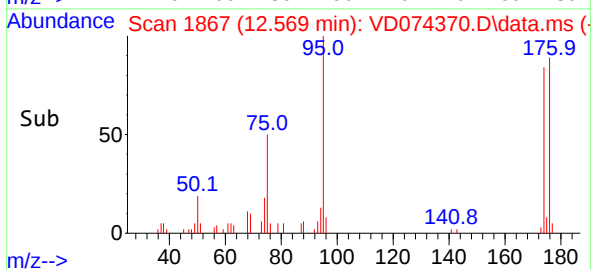
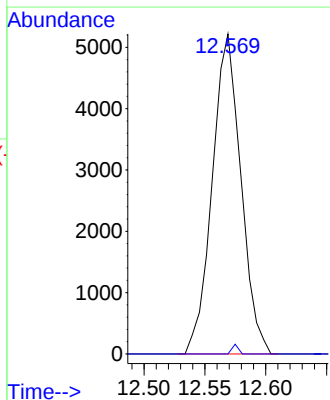
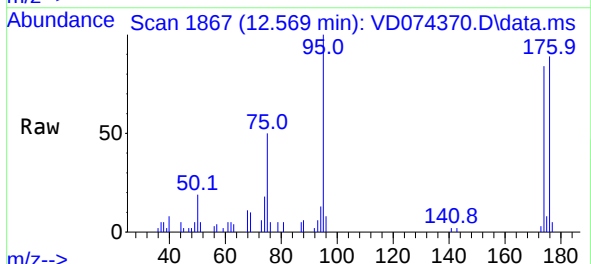
Instrument :
MSVOA_D
ClientSampleId :
D22006-5.5

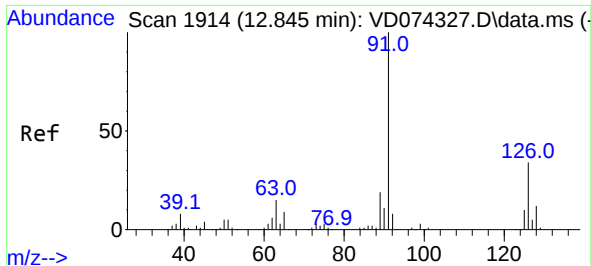
Tgt Ion:152 Resp: 18729
Ion Ratio Lower Upper
152 100
115 59.9 28.4 85.2
150 164.9 0.0 351.0



#76
1,2,3-Trichloropropane
Concen: 49.375 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.153 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Tgt Ion: 75 Resp: 8556
Ion Ratio Lower Upper
75 100
77 0.7 0.0 0.0#





#79

2-Chlorotoluene

Concen: 1.488 ug/l

RT: 12.757 min Scan# 1899

Delta R.T. -0.088 min

Lab File: VD074370.D

Acq: 20 Sep 2022 17:19

Instrument :

MSVOA_D

ClientSampleId :

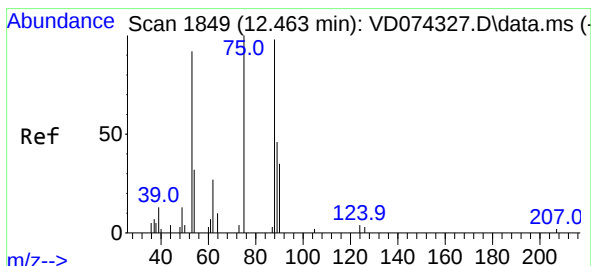
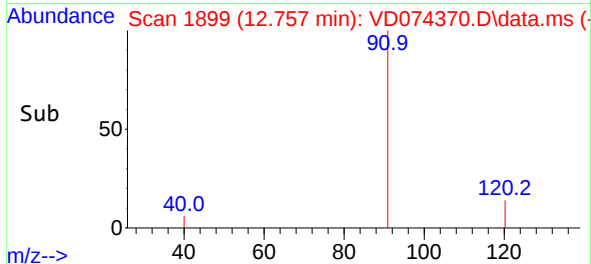
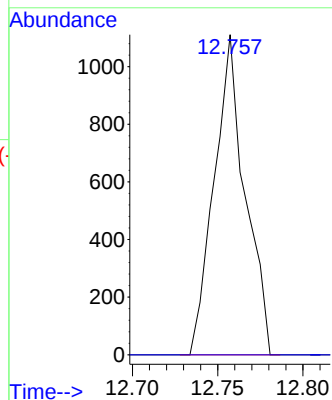
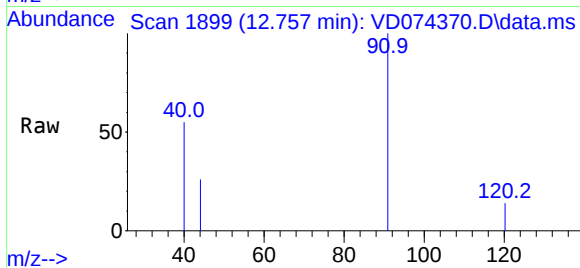
D22006-5.5

Tgt Ion: 91 Resp: 1402

Ion Ratio Lower Upper

91 100

126 0.0 17.3 51.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 123.747 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. 0.106 min

Lab File: VD074370.D

Acq: 20 Sep 2022 17:19

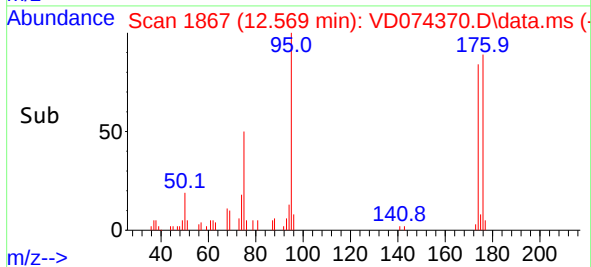
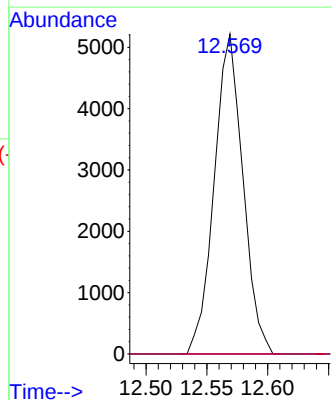
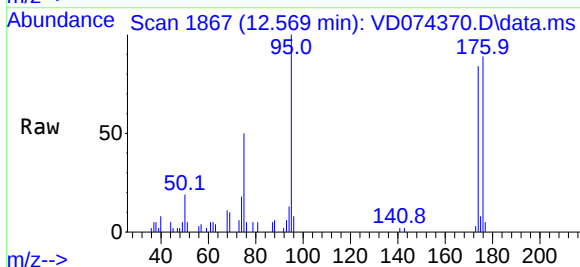
Tgt Ion: 75 Resp: 8556

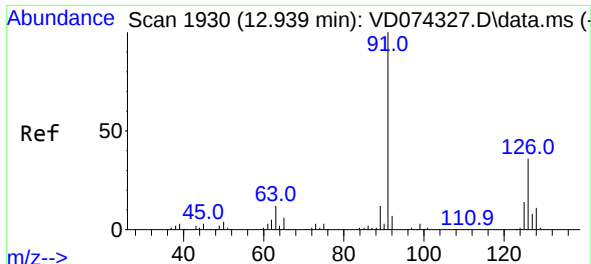
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

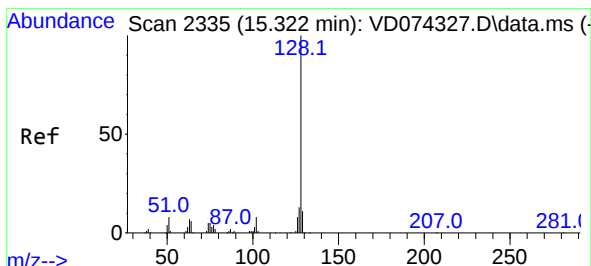
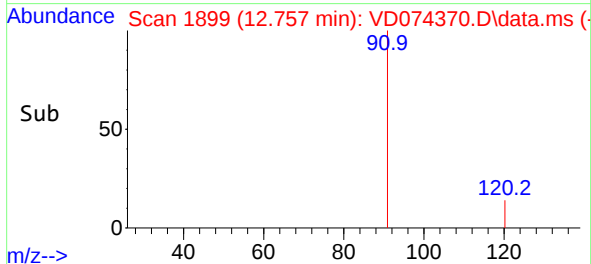
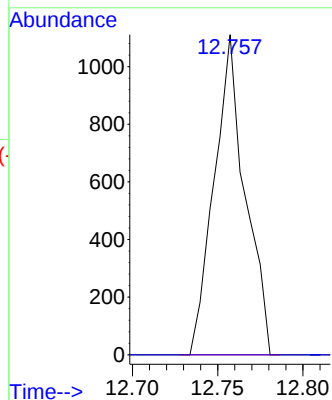
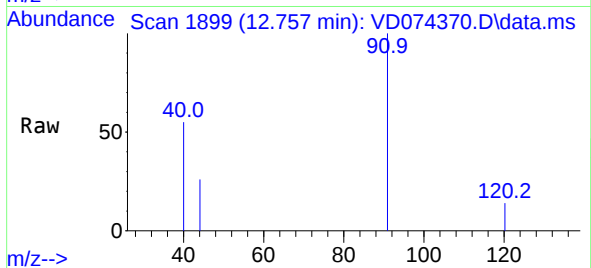




#82
4-Chlorotoluene
Concen: 1.435 ug/l
RT: 12.757 min Scan# 1899
Delta R.T. -0.182 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Instrument :
MSVOA_D
ClientSampleId :
D22006-5.5

Tgt Ion: 91 Resp: 1402
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#95
Naphthalene
Concen: 1.355 ug/l
RT: 15.328 min Scan# 2336
Delta R.T. 0.006 min
Lab File: VD074370.D
Acq: 20 Sep 2022 17:19

Tgt Ion: 128 Resp: 924
Ion Ratio Lower Upper
128 100
127 0.0 10.9 16.3#
129 0.0 8.8 13.2#

