

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD061622\
 Data File : VD073613.D
 Acq On : 16 Jun 2022 13:08
 Operator : VA/SY
 Sample : N3293-07RE
 Misc : 5.03G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 40808

Quant Time: Jun 16 15:11:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D060922S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 09 12:33:32 2022
 Response via : Initial Calibration

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

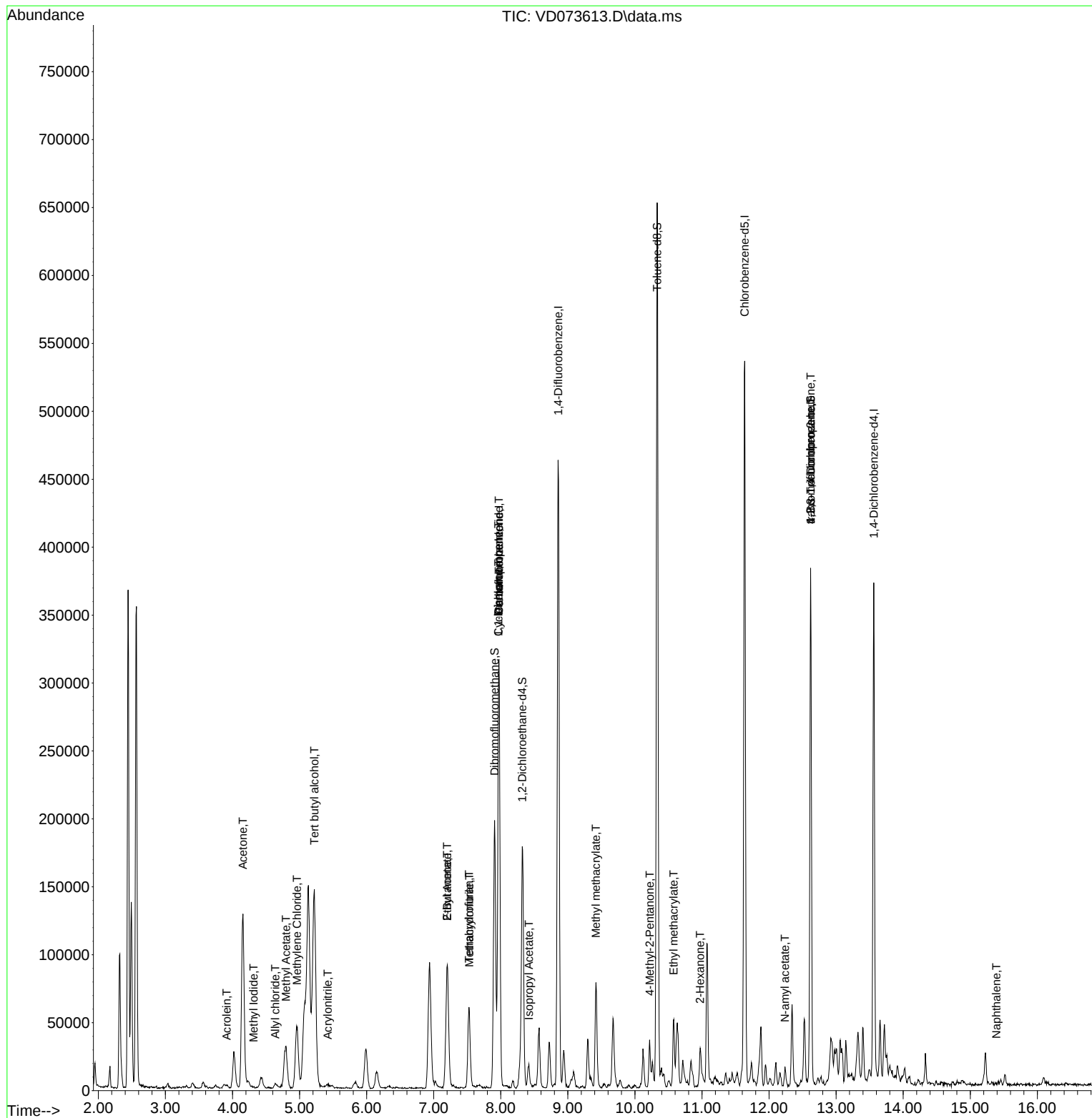
Internal Standards						
1) Pentafluorobenzene	7.973	168	233228	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	411883	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	312481	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	100923	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	141552	56.556	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.120%			
35) Dibromofluoromethane	7.908	113	140330	52.983	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.960%			
50) Toluene-d8	10.332	98	441136	44.052	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 88.100%			
62) 4-Bromofluorobenzene	12.620	95	124400	34.220	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 68.440%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.314	142	766	4.417	ug/l #	47
11) Tert butyl alcohol	5.220	59	271276	1398.681	ug/l	98
13) Acrolein	3.914	56	2512	22.788	ug/l #	14
14) Allyl chloride	4.638	41	5594	1.651	ug/l #	37
15) Acrylonitrile	5.420	53	2378	4.415	ug/l #	94
16) Acetone	4.156	43	224390	509.177	ug/l	91
18) Methyl Acetate	4.797	43	24328	20.415	ug/l #	55
20) Methylene Chloride	4.961	84	36817	10.770	ug/l #	79
25) 2-Butanone	7.203	43	121147	186.831	ug/l	92
29) Tetrahydrofuran	7.526	42	1668	4.032	ug/l #	22
31) Cyclohexane	7.967	56	6278	1.489	ug/l #	23
36) 1,1-Dichloropropene	7.967	75	18392	4.623	ug/l #	52
37) Ethyl Acetate	7.203	43	121147	75.394	ug/l #	72
38) Carbon Tetrachloride	7.973	117	24632	5.919	ug/l #	15
41) Methacrylonitrile	7.532	41	11698	13.428	ug/l #	54
43) Isopropyl Acetate	8.420	43	5184	1.677	ug/l #	54
48) Methyl methacrylate	9.420	41	20702	13.518	ug/l #	50
51) 4-Methyl-2-Pentanone	10.220	43	21974	14.047	ug/l	98
56) Ethyl methacrylate	10.579	69	9144	3.465	ug/l	89
59) 2-Hexanone	10.973	43	13111	12.238	ug/l	88
74) N-amyl acetate	12.238	43	7783	5.001	ug/l #	59
76) 1,2,3-Trichloropropane	12.620	75	61849	63.084	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.620	75	61849	148.068	ug/l #	7
95) Naphthalene	15.390	128	1127	4.487	ug/l #	70

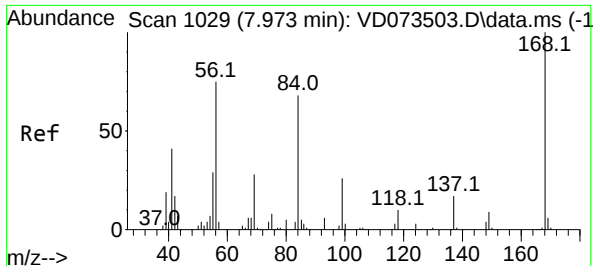
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 09 12:33:32 2022
Response via : Initial Calibration

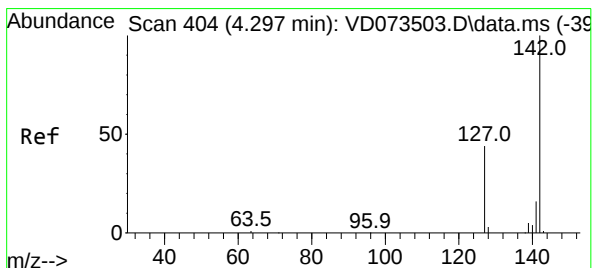
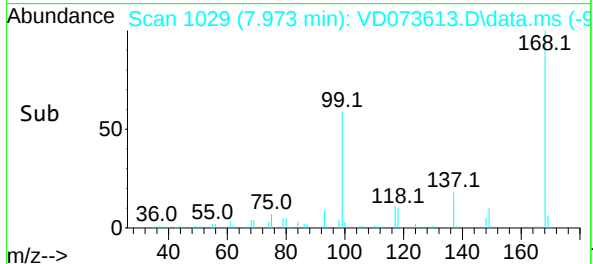
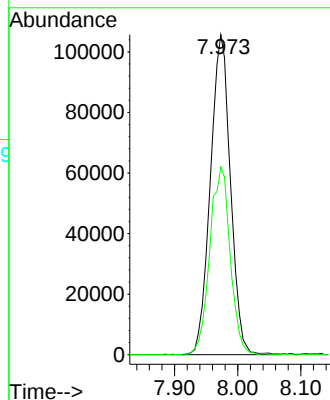
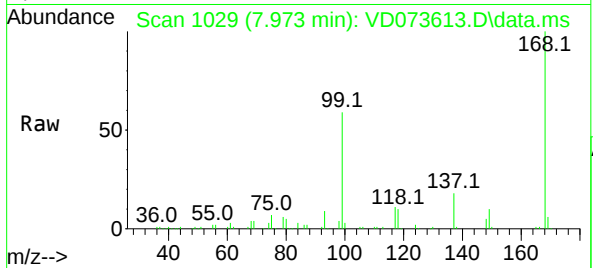




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. 0.000 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

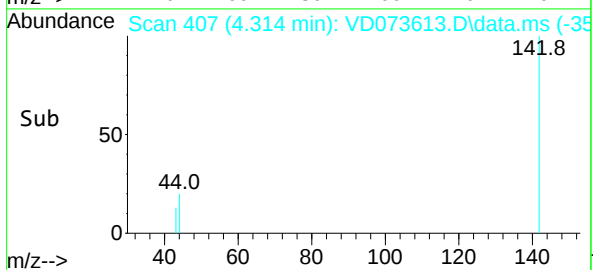
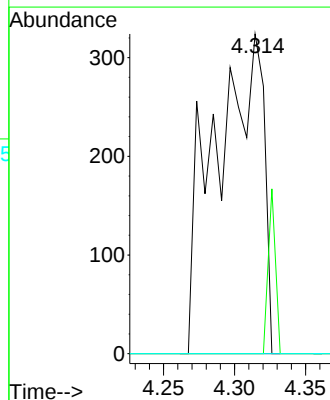
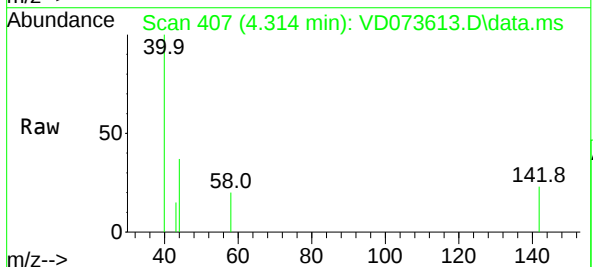
Instrument :
MSVOA_D
ClientSampleId :
40808

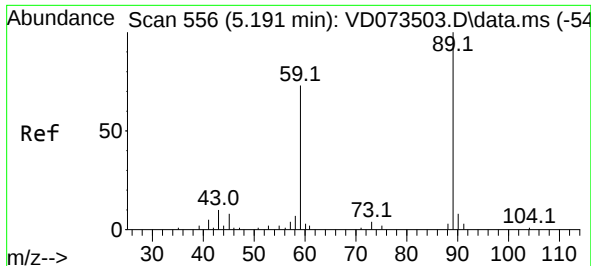
Tgt Ion:168 Resp: 233228
Ion Ratio Lower Upper
168 100
99 58.7 49.8 74.6



#10
Methyl Iodide
Concen: 4.417 ug/l
RT: 4.314 min Scan# 407
Delta R.T. 0.017 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

Tgt Ion:142 Resp: 766
Ion Ratio Lower Upper
142 100
127 7.7 37.3 55.9#
141 0.0 11.7 17.5#

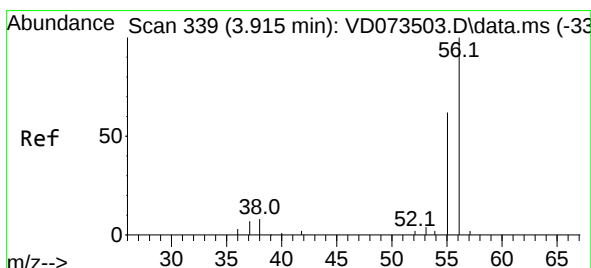
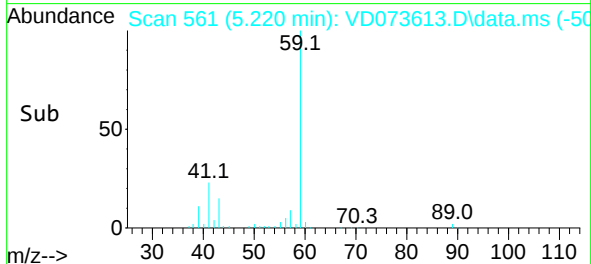
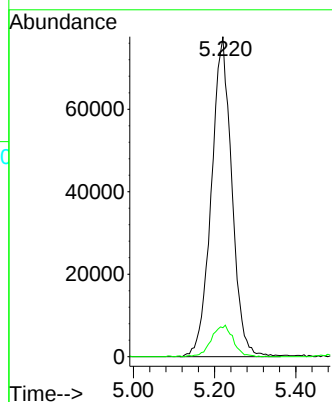
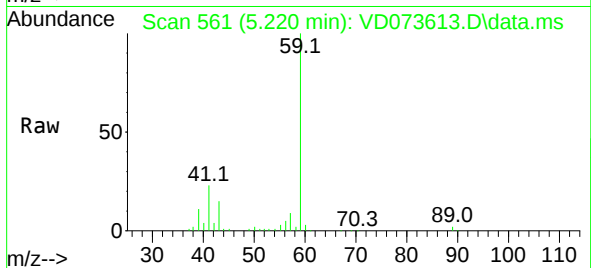




#11
Tert butyl alcohol
Concen: 1398.681 ug/l
RT: 5.220 min Scan# 51
Delta R.T. 0.029 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

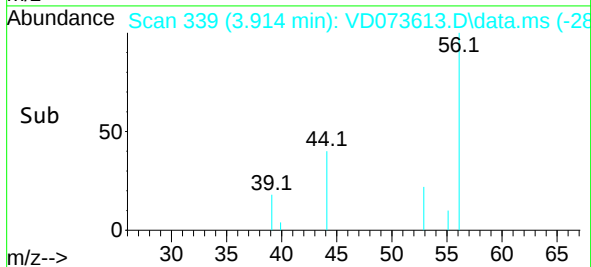
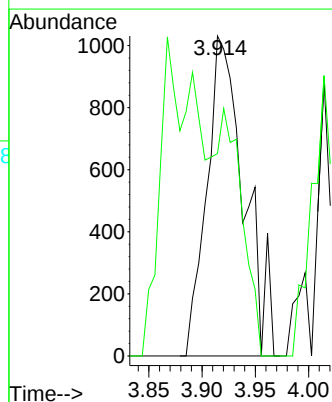
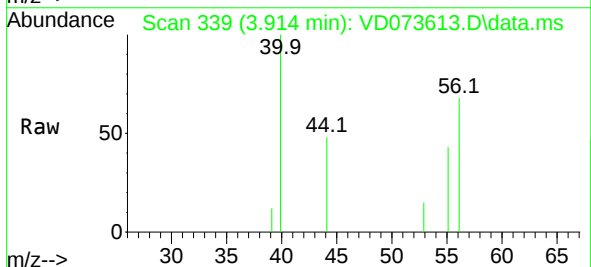
Instrument :
MSVOA_D
ClientSampleId :
40808

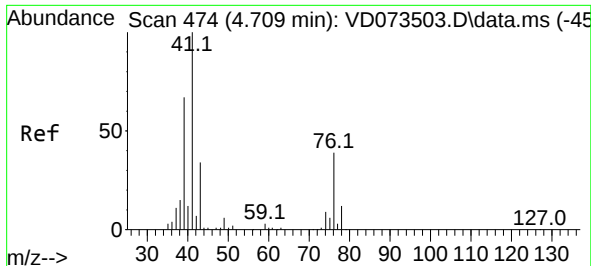
Tgt Ion: 59 Resp: 271276
Ion Ratio Lower Upper
59 100
57 10.4 7.8 11.6



#13
Acrolein
Concen: 22.788 ug/l
RT: 3.914 min Scan# 339
Delta R.T. -0.001 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

Tgt Ion: 56 Resp: 2512
Ion Ratio Lower Upper
56 100
55 0.0 57.1 85.7#

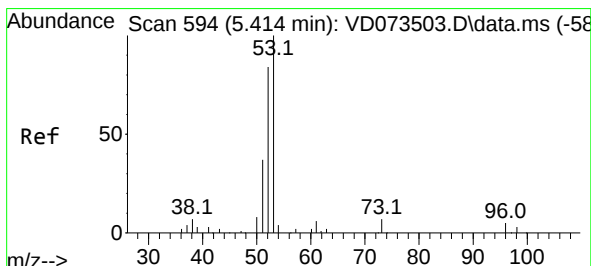
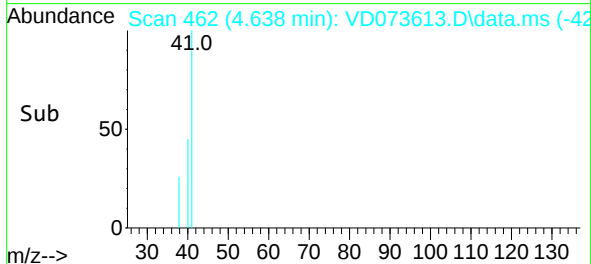
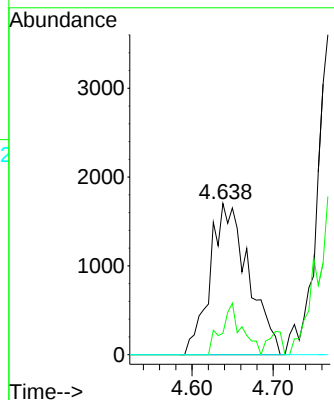
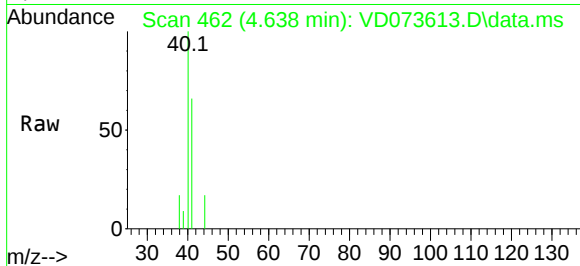




#14
 Allyl chloride
 Concen: 1.651 ug/l
 RT: 4.638 min Scan# 41
 Delta R.T. -0.071 min
 Lab File: VD073613.D
 Acq: 16 Jun 2022 13:08

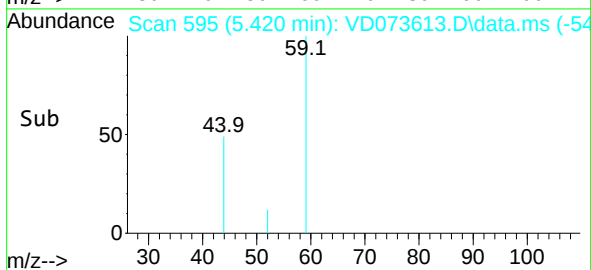
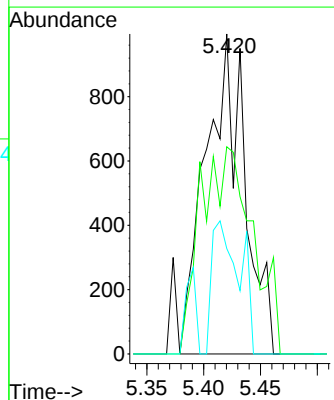
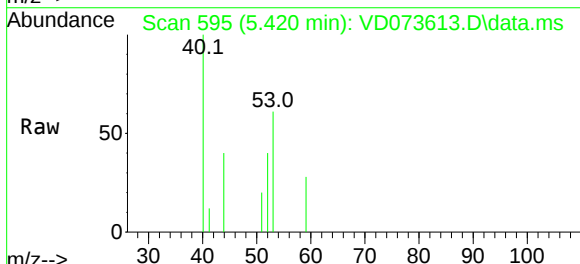
Instrument :
 MSVOA_D
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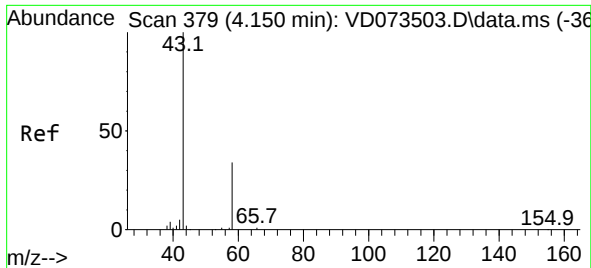
Tgt Ion:	41	Resp:	5594
Ion	Ratio	Lower	Upper
41	100		
39	18.2	59.3	88.9#
76	0.0	25.7	38.5#



#15
 Acrylonitrile
 Concen: 4.415 ug/l
 RT: 5.420 min Scan# 595
 Delta R.T. 0.006 min
 Lab File: VD073613.D
 Acq: 16 Jun 2022 13:08

Tgt Ion:	53	Resp:	2378
Ion	Ratio	Lower	Upper
53	100		
52	86.2	67.2	100.8
51	29.5	30.3	45.5#

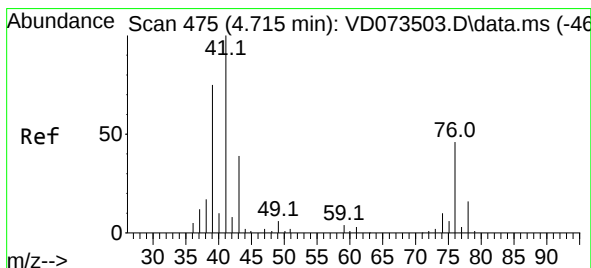
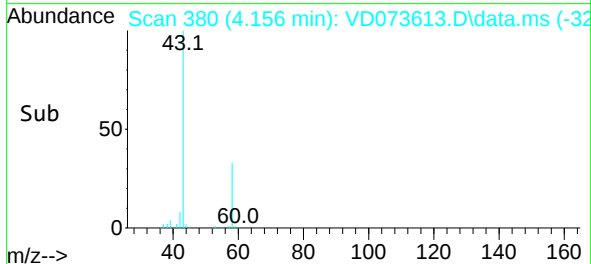
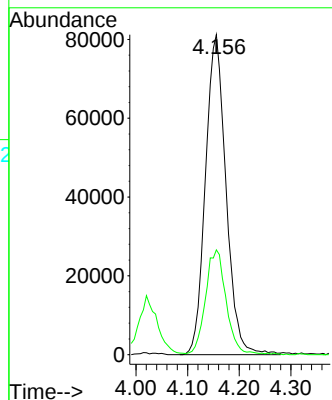
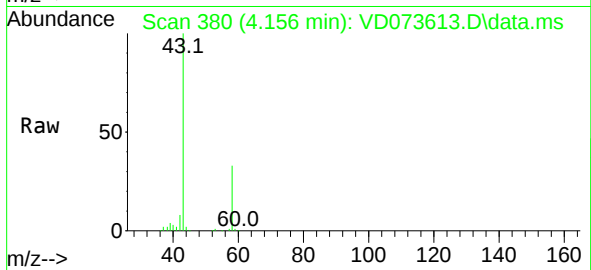




#16
Acetone
Concen: 509.177 ug/l
RT: 4.156 min Scan# 31
Delta R.T. 0.006 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

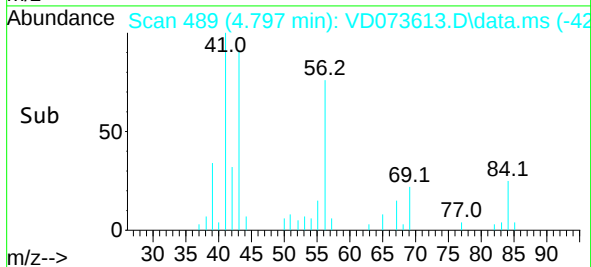
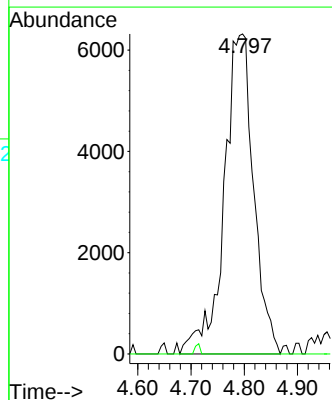
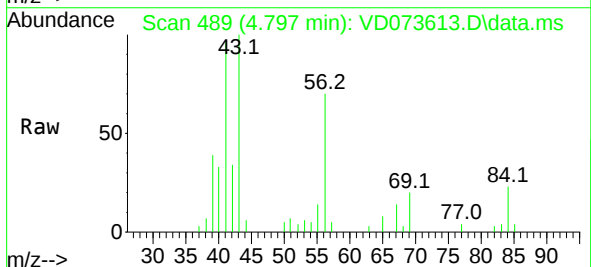
Instrument :
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ClientSampleId :
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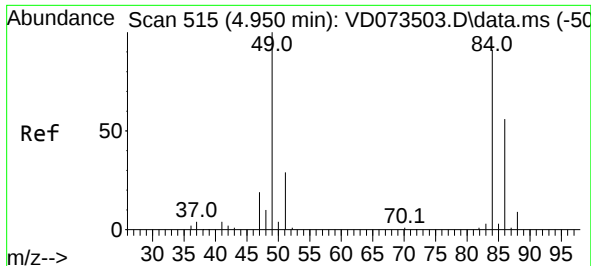
Tgt Ion: 43 Resp: 224390
Ion Ratio Lower Upper
43 100
58 32.6 22.1 33.1



#18
Methyl Acetate
Concen: 20.415 ug/l
RT: 4.797 min Scan# 489
Delta R.T. 0.082 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

Tgt Ion: 43 Resp: 24328
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#

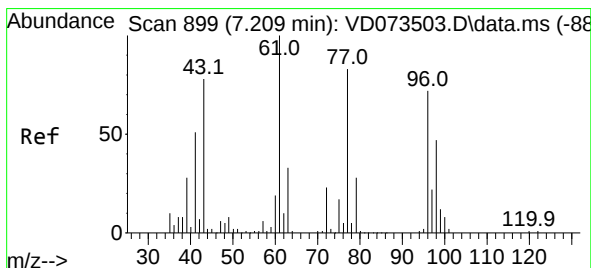
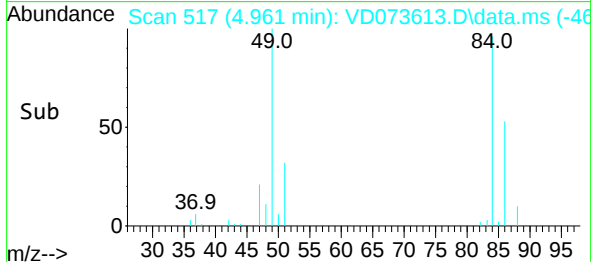
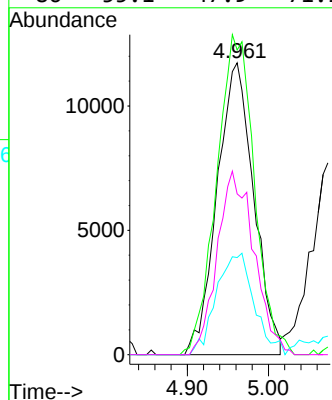
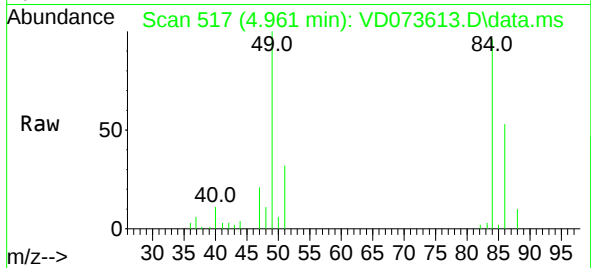




#20
Methylene Chloride
Concen: 10.770 ug/l
RT: 4.961 min Scan# 515
Delta R.T. 0.011 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

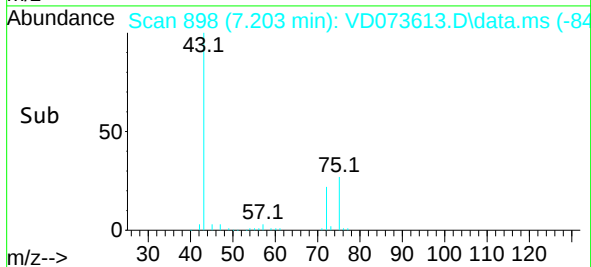
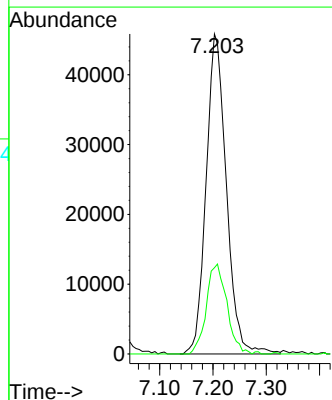
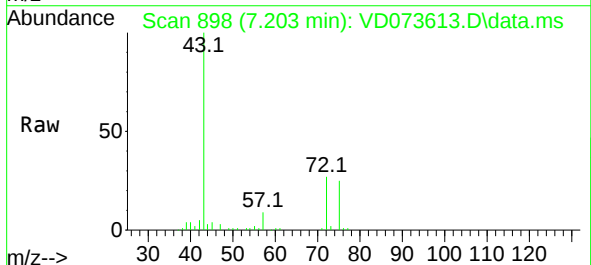
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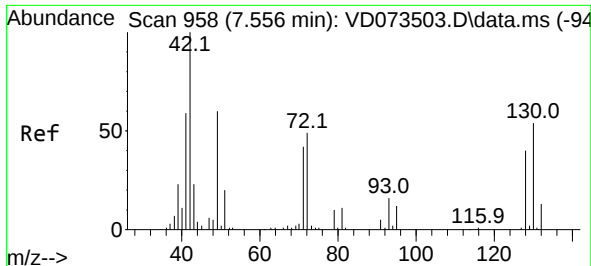
Tgt Ion: 84	Resp: 36817
Ion Ratio	Lower Upper
84	100
49	104.4 112.8 169.2#
51	33.3 32.6 48.8
86	55.1 47.9 71.9



#25
2-Butanone
Concen: 186.831 ug/l
RT: 7.203 min Scan# 898
Delta R.T. -0.006 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

Tgt Ion: 43	Resp: 121147
Ion Ratio	Lower Upper
43	100
72	26.9 18.6 27.8





#29

Tetrahydrofuran

Concen: 4.032 ug/l

RT: 7.526 min Scan# 91

Delta R.T. -0.030 min

Lab File: VD073613.D

Acq: 16 Jun 2022 13:08

Instrument :

MSVOA_D

ClientSampleId :

40808

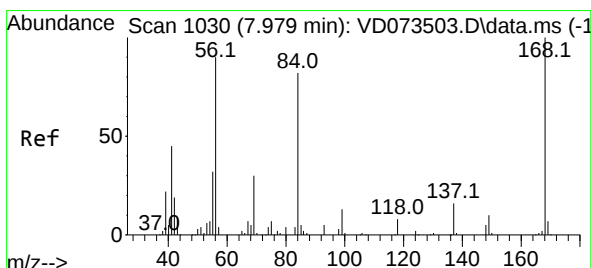
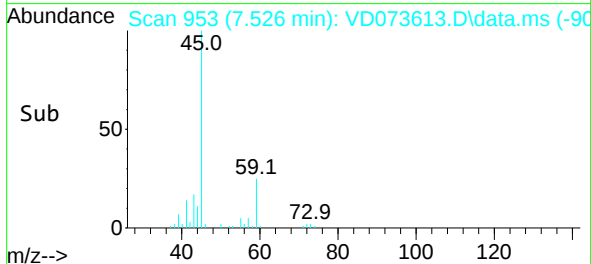
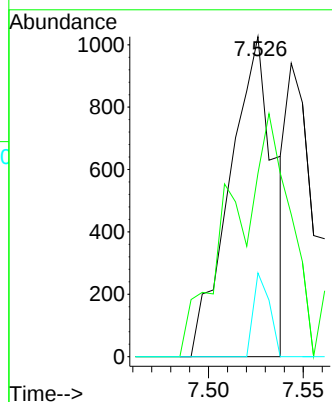
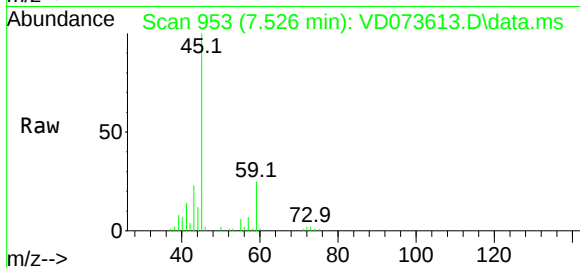
Tgt Ion: 42 Resp: 1668

Ion Ratio Lower Upper

42 100

72 104.1 30.7 46.1#

71 9.5 28.6 43.0#



#31

Cyclohexane

Concen: 1.489 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.012 min

Lab File: VD073613.D

Acq: 16 Jun 2022 13:08

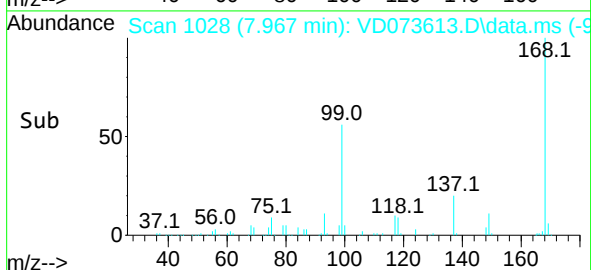
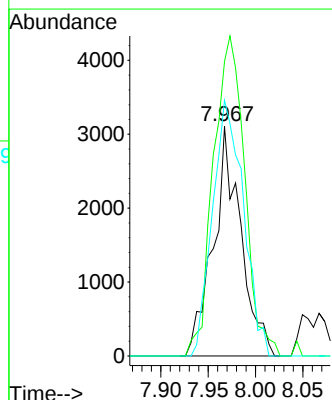
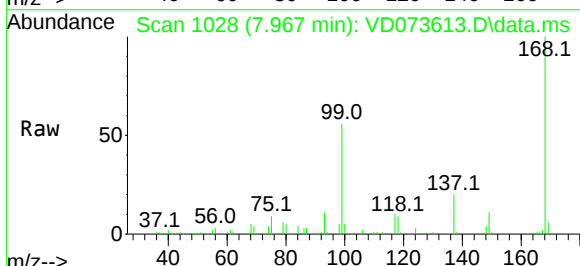
Tgt Ion: 56 Resp: 6278

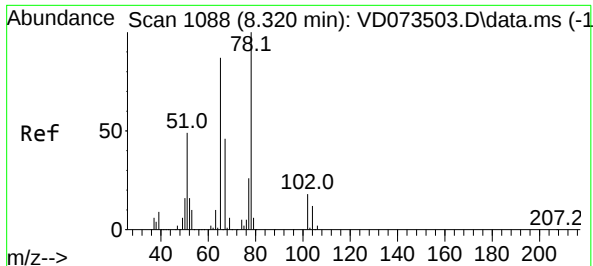
Ion Ratio Lower Upper

56 100

69 128.3 25.4 38.2#

84 111.4 63.0 94.4#





#33

1,2-Dichloroethane-d4

Concen: 56.556 ug/l

RT: 8.320 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VD073613.D

Acq: 16 Jun 2022 13:08

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MSVOA_D

ClientSampleId :

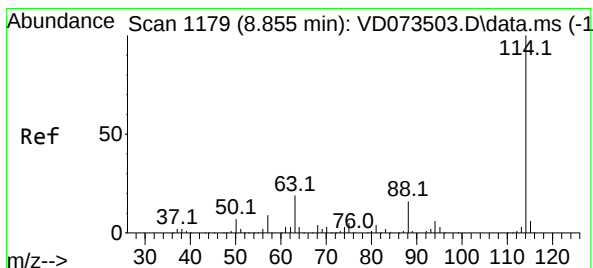
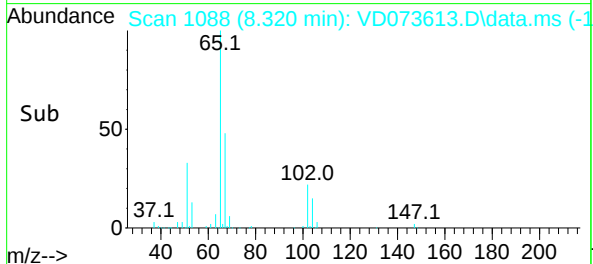
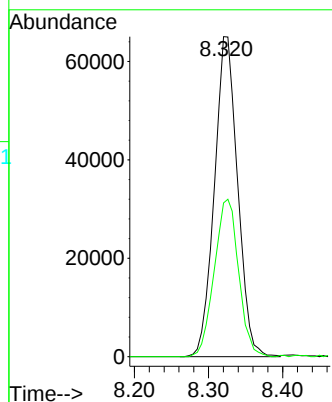
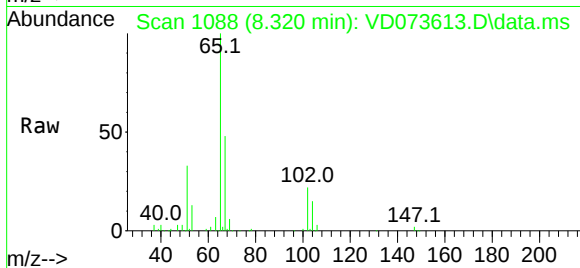
40808

Tgt Ion: 65 Resp: 141552

Ion Ratio Lower Upper

65 100

67 51.5 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VD073613.D

Acq: 16 Jun 2022 13:08

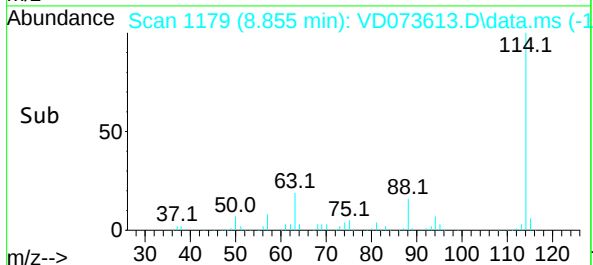
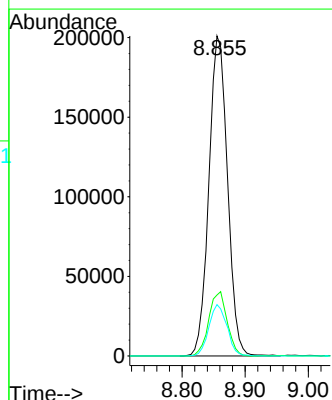
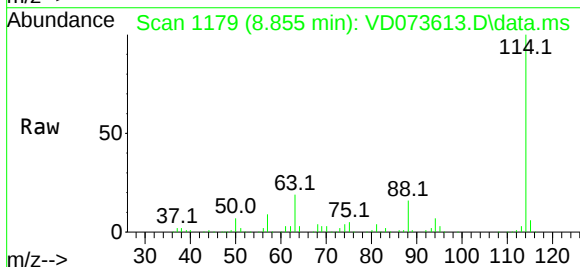
Tgt Ion: 114 Resp: 411883

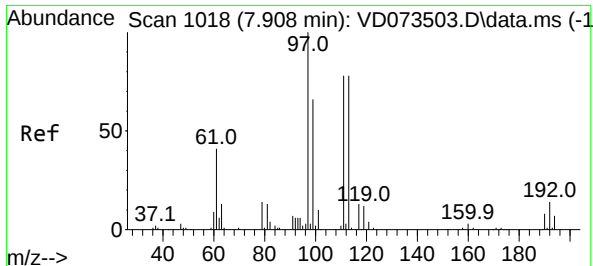
Ion Ratio Lower Upper

114 100

63 19.0 0.0 46.6

88 16.1 0.0 33.2

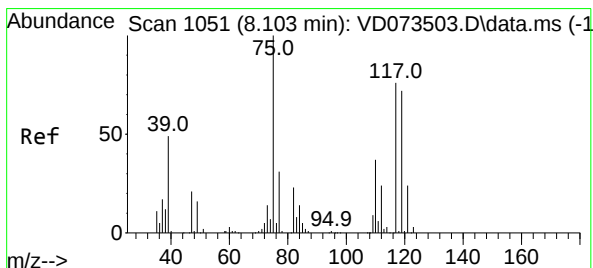
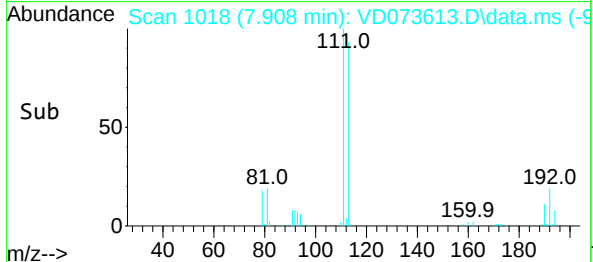
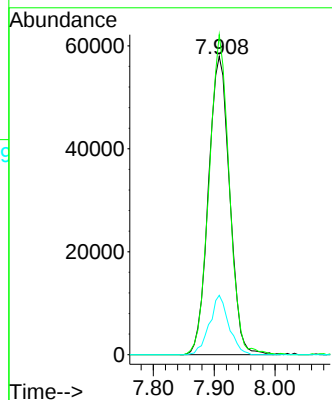
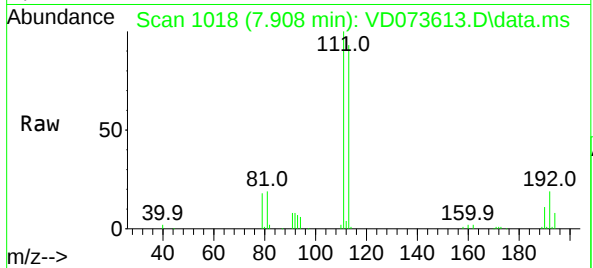




#35
Dibromofluoromethane
Concen: 52.983 ug/l
RT: 7.908 min Scan# 1018
Delta R.T. 0.000 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

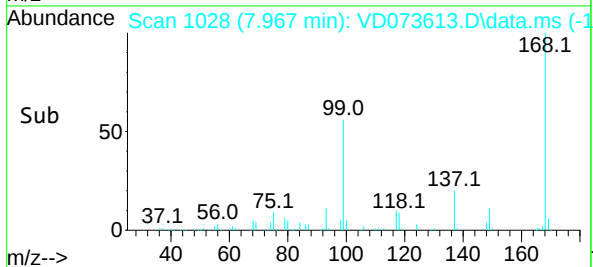
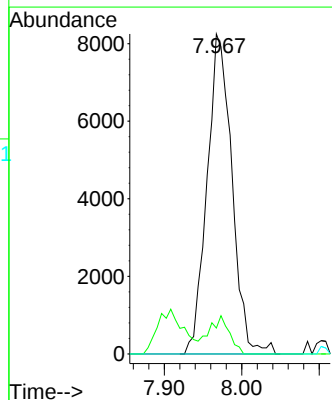
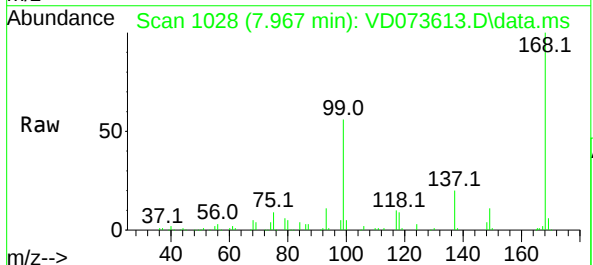
Instrument :
MSVOA_D
ClientSampleId :
40808

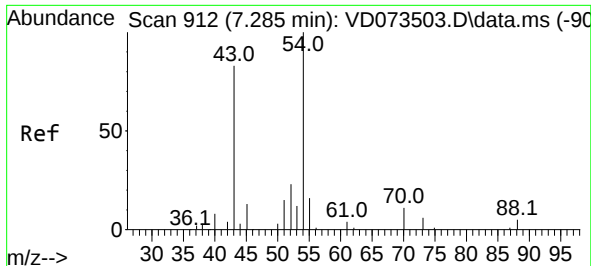
Tgt Ion:113 Resp: 140330
Ion Ratio Lower Upper
113 100
111 102.1 83.8 125.6
192 18.1 14.6 21.8



#36
1,1-Dichloropropene
Concen: 4.623 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.136 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

Tgt Ion: 75 Resp: 18392
Ion Ratio Lower Upper
75 100
110 9.7 16.4 49.1#
77 0.0 24.2 36.2#





#37

Ethyl Acetate

Concen: 75.394 ug/l

RT: 7.203 min Scan# 898

Delta R.T. -0.082 min

Lab File: VD073613.D

Acq: 16 Jun 2022 13:08

Instrument :

MSVOA_D

ClientSampleId :

40808

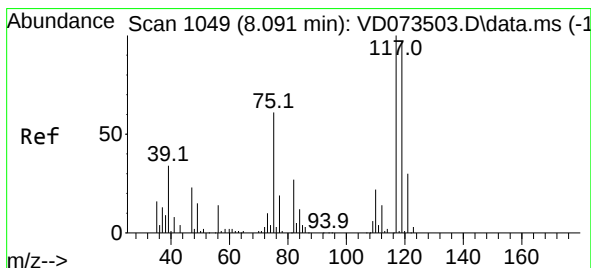
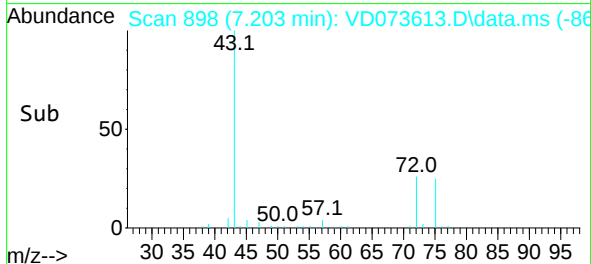
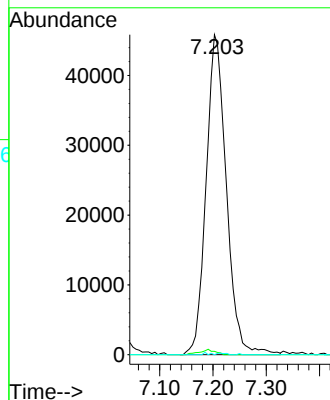
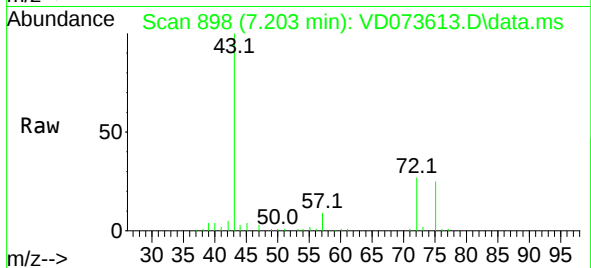
Tgt Ion: 43 Resp: 121147

Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.8#

70 0.2 6.9 10.3#



#38

Carbon Tetrachloride

Concen: 5.919 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.118 min

Lab File: VD073613.D

Acq: 16 Jun 2022 13:08

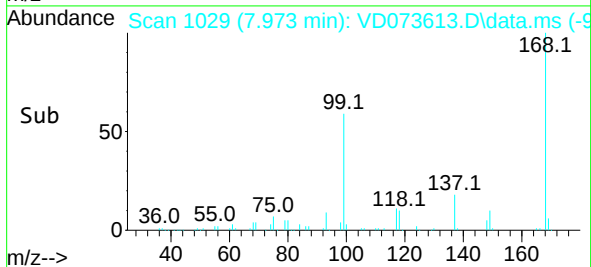
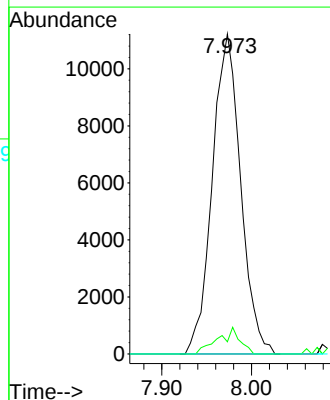
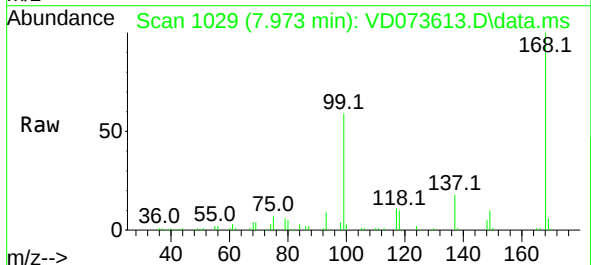
Tgt Ion: 117 Resp: 24632

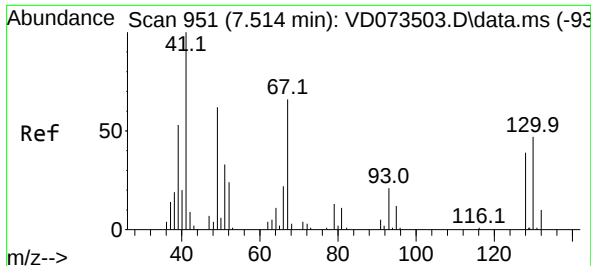
Ion Ratio Lower Upper

117 100

119 3.8 75.8 113.6#

121 0.0 24.5 36.7#

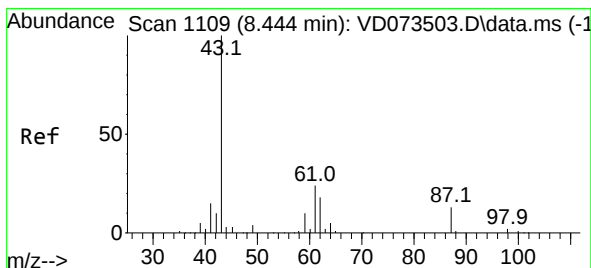
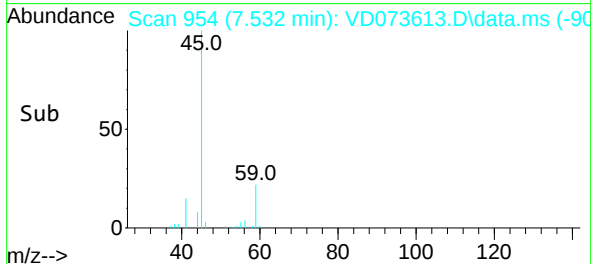
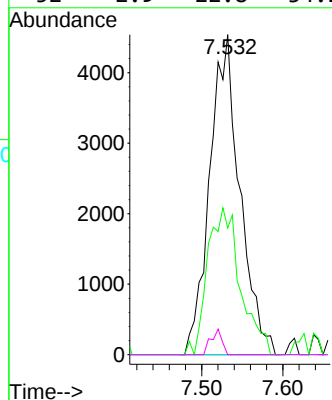
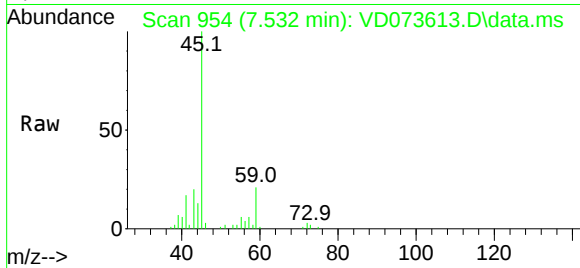




#41
Methacrylonitrile
Concen: 13.428 ug/l
RT: 7.532 min Scan# 91
Delta R.T. 0.018 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

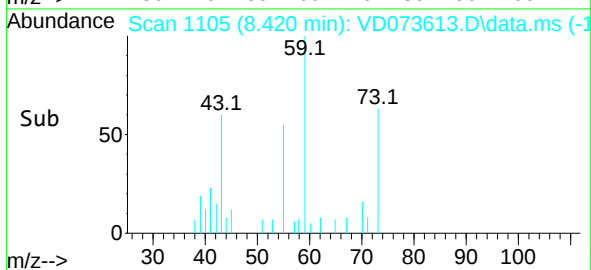
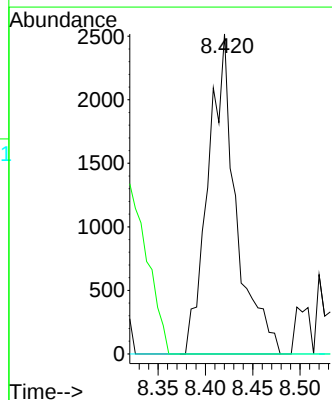
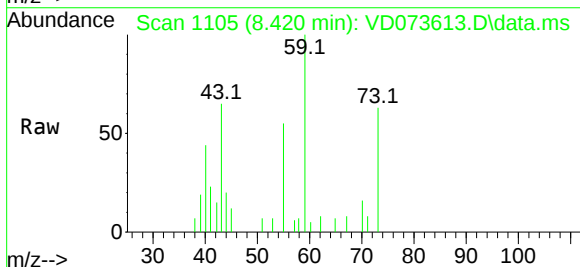
Instrument :
MSVOA_D
ClientSampleId :
40808

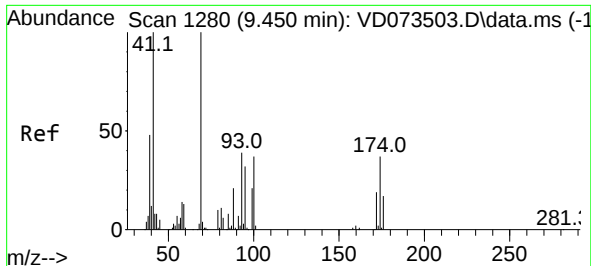
Tgt Ion:	41	Resp:	11698
Ion	Ratio	Lower	Upper
41	100		
39	49.8	44.6	67.0
67	0.0	48.2	72.4#
52	2.9	22.8	34.2#



#43
Isopropyl Acetate
Concen: 1.677 ug/l
RT: 8.420 min Scan# 1105
Delta R.T. -0.024 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

Tgt Ion:	43	Resp:	5184
Ion	Ratio	Lower	Upper
43	100		
61	0.0	22.4	33.6#
87	0.0	8.7	13.1#





#48

Methyl methacrylate

Concen: 13.518 ug/l

RT: 9.420 min Scan# 11

Delta R.T. -0.030 min

Lab File: VD073613.D

Acq: 16 Jun 2022 13:08

Instrument :

MSVOA_D

ClientSampleId :

40808

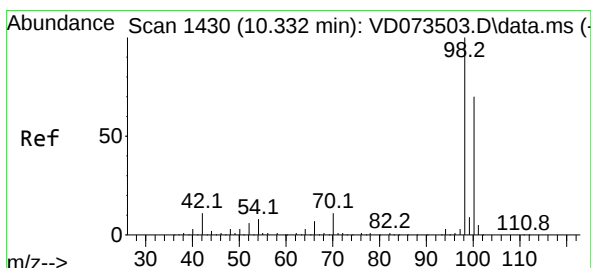
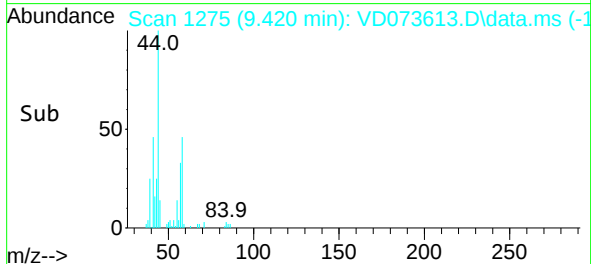
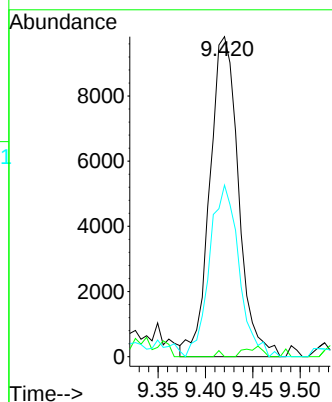
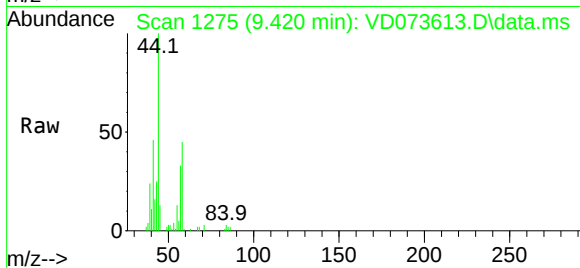
Tgt Ion: 41 Resp: 20702

Ion Ratio Lower Upper

41 100

69 0.3 56.7 85.1#

39 54.8 42.7 64.1



#50

Toluene-d8

Concen: 44.052 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VD073613.D

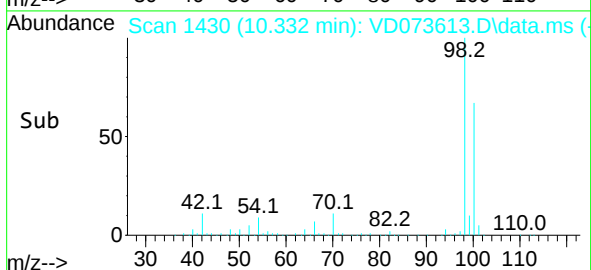
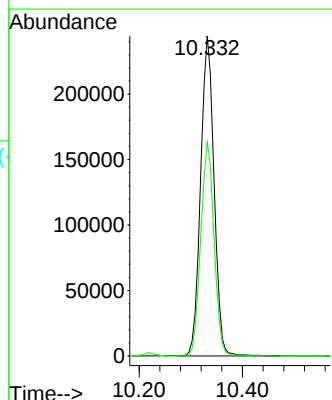
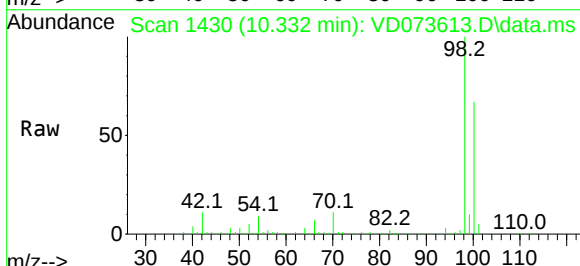
Acq: 16 Jun 2022 13:08

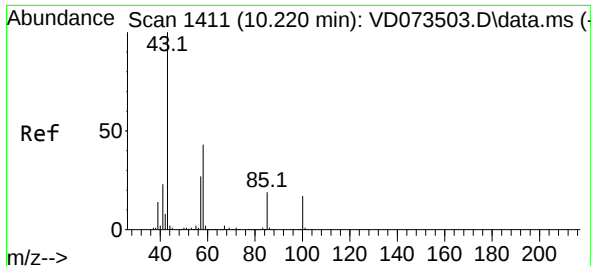
Tgt Ion: 98 Resp: 441136

Ion Ratio Lower Upper

98 100

100 66.3 52.4 78.6

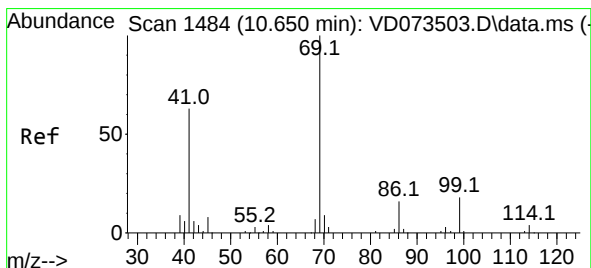
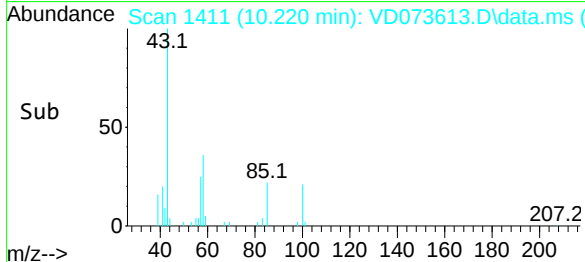
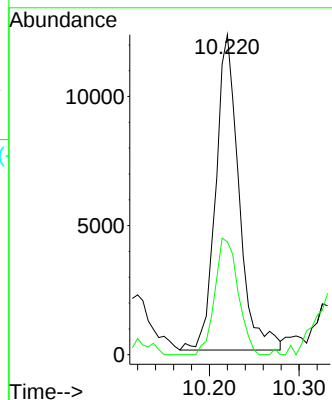
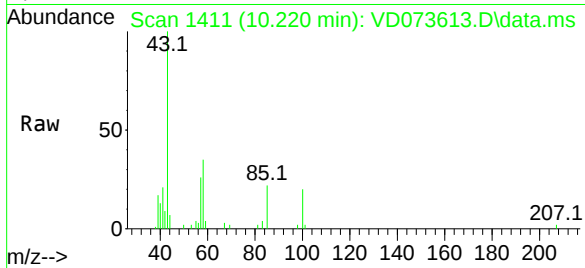




#51
4-Methyl-2-Pentanone
Concen: 14.047 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. 0.000 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

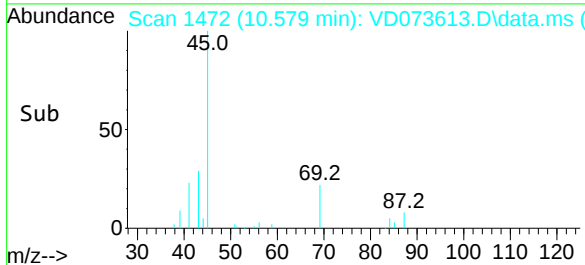
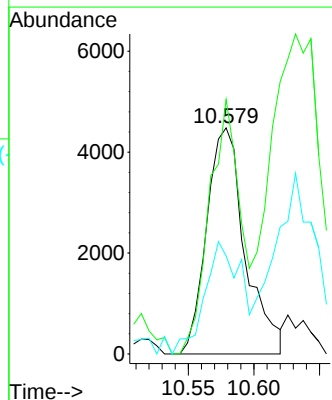
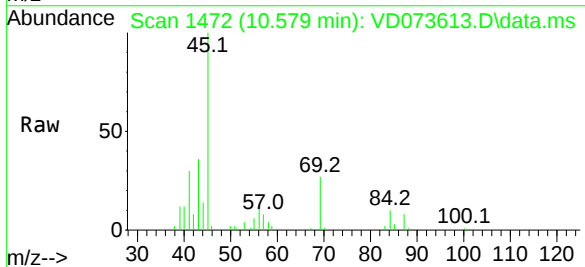
Instrument :
MSVOA_D
ClientSampleId :
40808

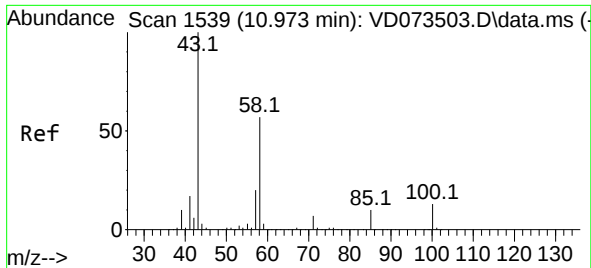
Tgt Ion: 43 Resp: 21974
Ion Ratio Lower Upper
43 100
58 36.8 28.6 43.0



#56
Ethyl methacrylate
Concen: 3.465 ug/l
RT: 10.579 min Scan# 1472
Delta R.T. -0.071 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

Tgt Ion: 69 Resp: 9144
Ion Ratio Lower Upper
69 100
41 90.5 63.0 94.6
39 46.3 33.8 50.8

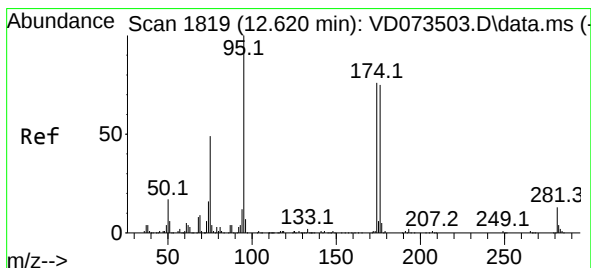
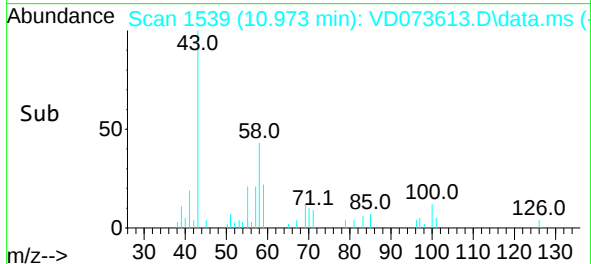
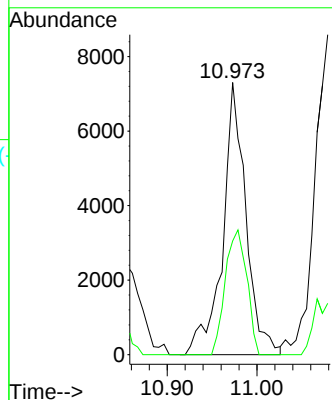
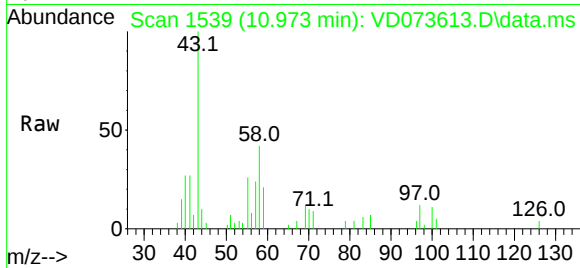




#59
2-Hexanone
Concen: 12.238 ug/l
RT: 10.973 min Scan# 1539
Delta R.T. -0.000 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

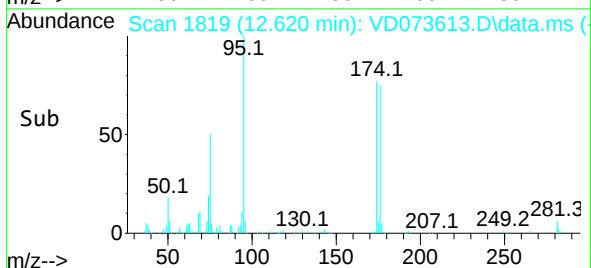
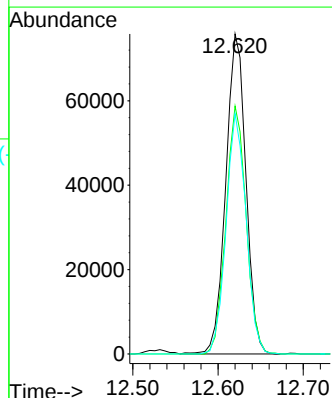
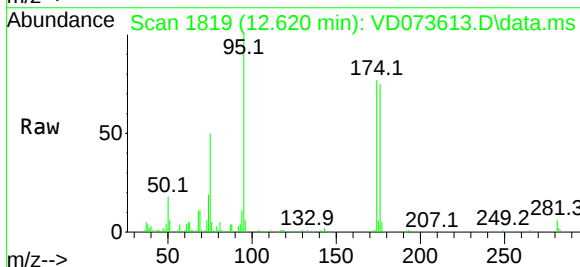
Instrument :
MSVOA_D
ClientSampleId :
40808

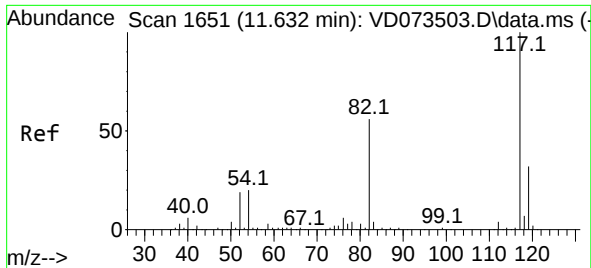
Tgt Ion: 43 Resp: 13111
Ion Ratio Lower Upper
43 100
58 42.5 25.3 75.9



#62
4-Bromofluorobenzene
Concen: 34.220 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

Tgt Ion: 95 Resp: 124400
Ion Ratio Lower Upper
95 100
174 77.7 0.0 152.8
176 74.3 0.0 145.4

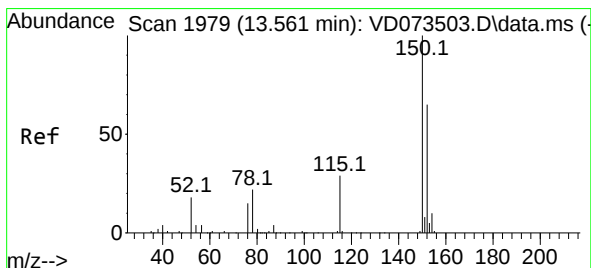
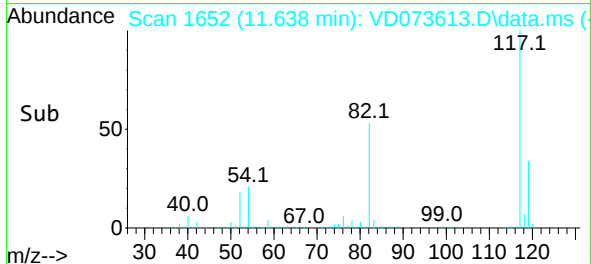
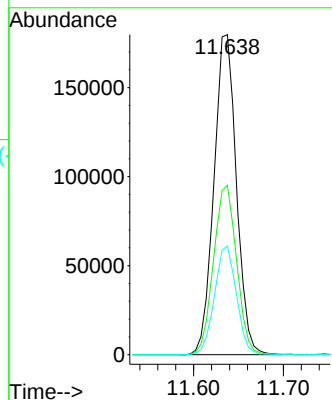
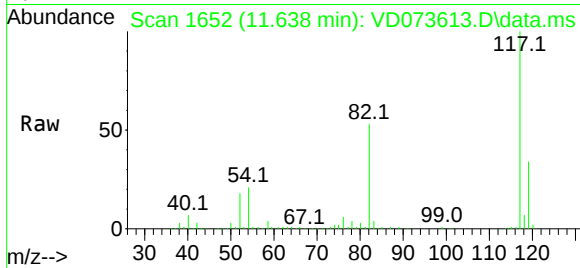




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 117
Delta R.T. 0.006 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

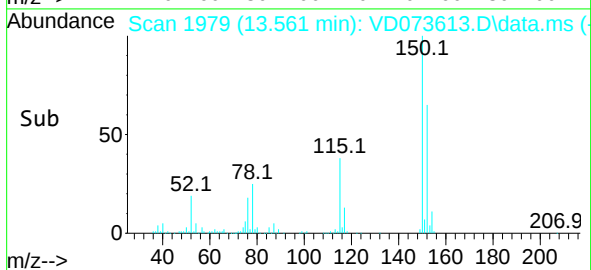
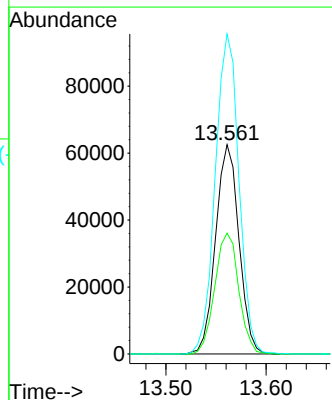
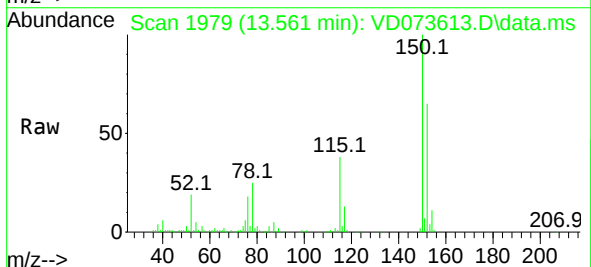
Instrument :
MSVOA_D
ClientSampleId :
40808

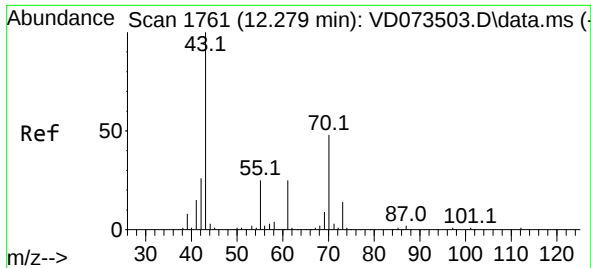
Tgt Ion:117 Resp: 312481
Ion Ratio Lower Upper
117 100
82 52.9 45.3 67.9
119 34.0 26.6 40.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

Tgt Ion:152 Resp: 100923
Ion Ratio Lower Upper
152 100
115 59.2 31.3 93.8
150 155.2 0.0 348.6

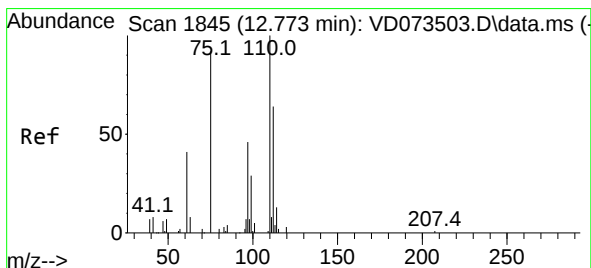
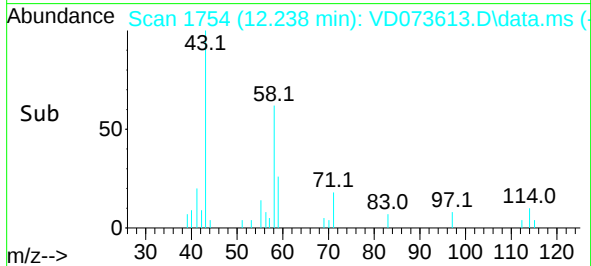
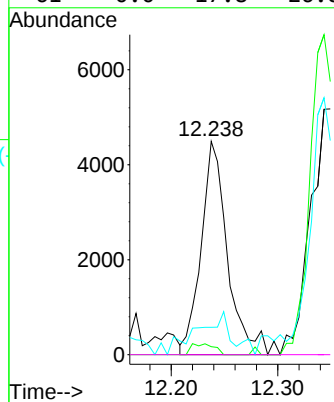
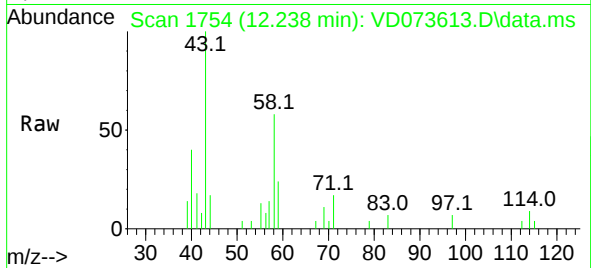




#74
N-amy1 acetate
Concen: 5.001 ug/l
RT: 12.238 min Scan# 11
Delta R.T. -0.041 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

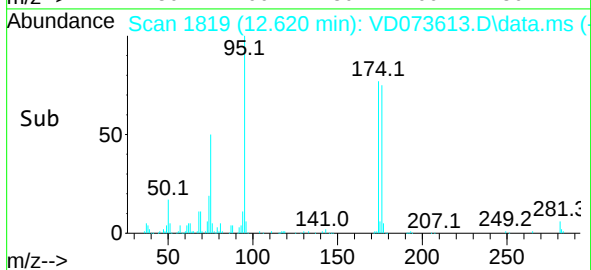
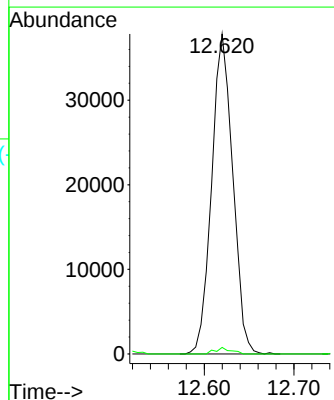
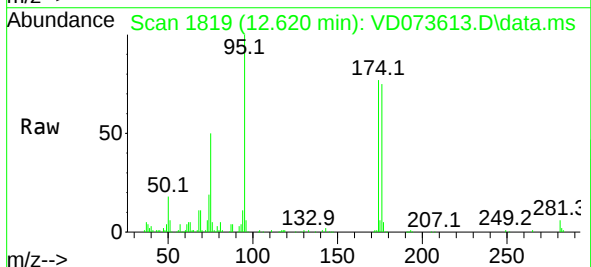
Instrument :
MSVOA_D
ClientSampleId :
40808

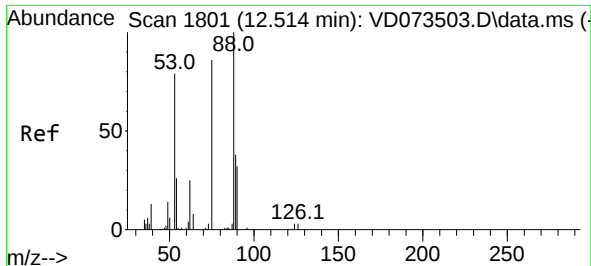
Tgt Ion:	43	Resp:	7783
Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.3	46.9#
55	24.4	20.0	30.0
61	0.0	17.8	26.8#



#76
1,2,3-Trichloropropane
Concen: 63.084 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

Tgt Ion:	75	Resp:	61849
Ion	Ratio	Lower	Upper
75	100		
77	1.5	0.0	0.0#

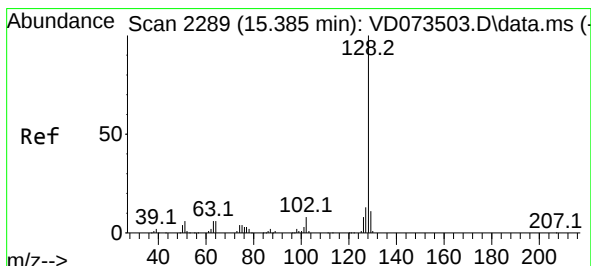
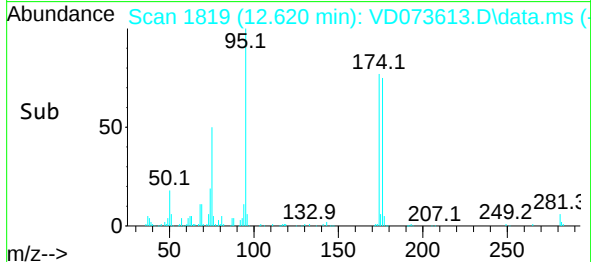
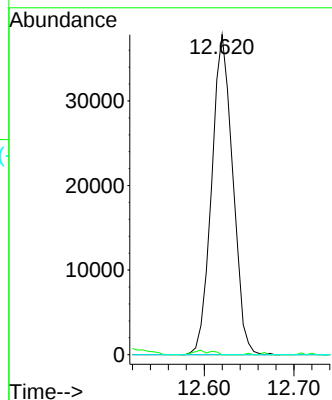
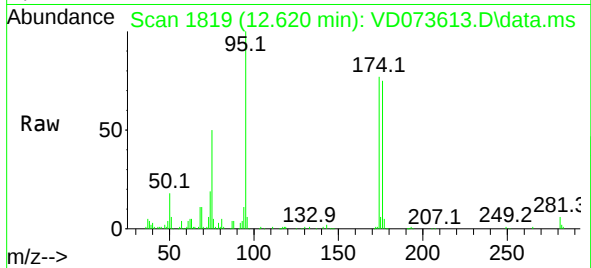




#81
trans-1,4-Dichloro-2-butene
Concen: 148.068 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

Instrument :
MSVOA_D
ClientSampleId :
40808

Tgt Ion: 75 Resp: 61849
Ion Ratio Lower Upper
75 100
53 0.0 86.5 129.7#
89 0.0 33.9 50.9#



#95
Naphthalene
Concen: 4.487 ug/l
RT: 15.390 min Scan# 2290
Delta R.T. 0.005 min
Lab File: VD073613.D
Acq: 16 Jun 2022 13:08

Tgt Ion: 128 Resp: 1127
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.4 12.6#

