

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD071521\
 Data File : VD069715.D
 Acq On : 15 Jul 2021 18:59
 Operator : VA/SY
 Sample : M3032-01
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 16 02:04:31 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071321S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 14 06:00:31 2021
 Response via : Initial Calibration

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

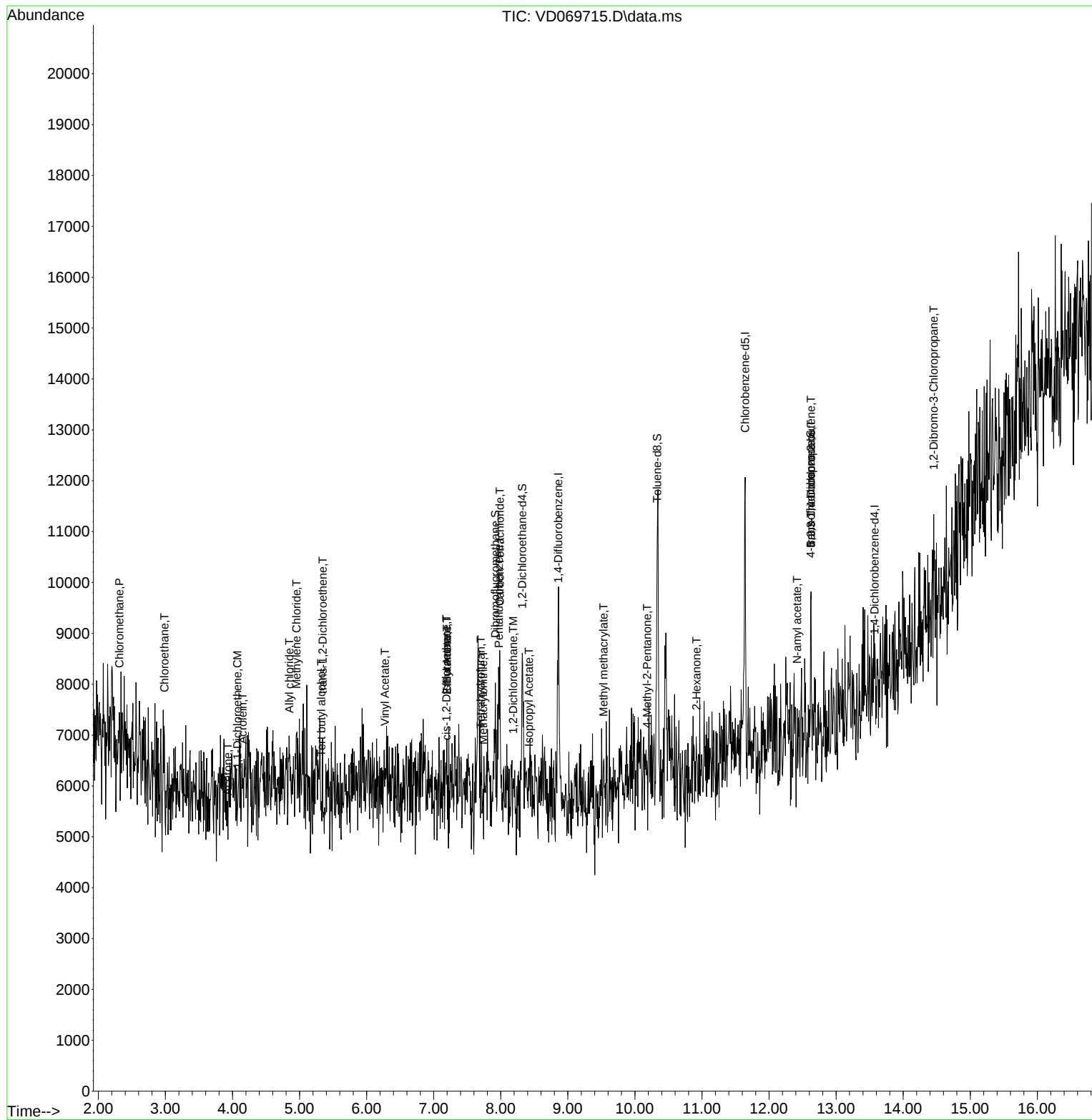
Internal Standards						
1) Pentafluorobenzene	7.973	168	1565	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	3913	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	3113	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	134	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	1529	78.246	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 156.500%	
35) Dibromofluoromethane	7.920	113	1394	53.102	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 106.200%	
50) Toluene-d8	10.332	98	4542	44.535	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 89.060%	
62) 4-Bromofluorobenzene	12.620	95	715	21.021	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 42.040%	
Target Compounds						
						Qvalue
3) Chloromethane	2.315	50	73	3.031	ug/l #	42
6) Chloroethane	2.985	64	67	4.399	ug/l #	43
11) Tert butyl alcohol	5.326	59	68	26.045	ug/l #	79
12) 1,1-Dichloroethene	4.073	96	80	4.687	ug/l #	1
13) Acrolein	4.150	56	75	55.671	ug/l #	15
14) Allyl chloride	4.850	41	80	3.034	ug/l #	58
16) Acetone	3.932	43	124	40.592	ug/l #	39
18) Methyl Acetate	4.814	43	56	Below Cal	#	49
20) Methylene Chloride	4.956	84	739	23.856	ug/l #	65
21) trans-1,2-Dichloroethene	5.344	96	71	3.484	ug/l #	1
23) Vinyl Acetate	6.273	43	60	17.256	ug/l #	72
25) 2-Butanone	7.197	43	59	12.775	ug/l #	47
27) cis-1,2-Dichloroethene	7.191	96	76	3.457	ug/l #	1
29) Tetrahydrofuran	7.703	42	63	22.017	ug/l #	32
37) Ethyl Acetate	7.197	43	59	3.864	ug/l #	67
38) Carbon Tetrachloride	7.985	117	126	3.409	ug/l #	13
41) Methacrylonitrile	7.738	41	68	8.593	ug/l #	18
42) 1,2-Dichloroethane	8.185	62	59	1.867	ug/l #	73
43) Isopropyl Acetate	8.420	43	54	1.931	ug/l #	47
48) Methyl methacrylate	9.532	41	56	4.875	ug/l #	13
51) 4-Methyl-2-Pentanone	10.185	43	60	4.143	ug/l #	34
59) 2-Hexanone	10.920	43	127	13.158	ug/l #	22
74) N-amyl acetate	12.420	43	65	31.350	ug/l #	40
76) 1,2,3-Trichloropropane	12.626	75	370	284.228	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.626	75	370	763.850	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.455	75	61	215.495	ug/l #	8

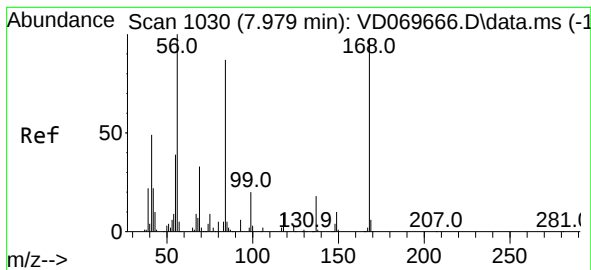
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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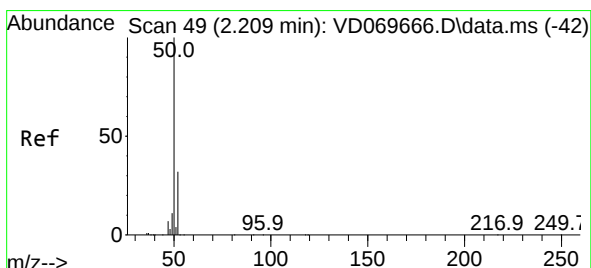
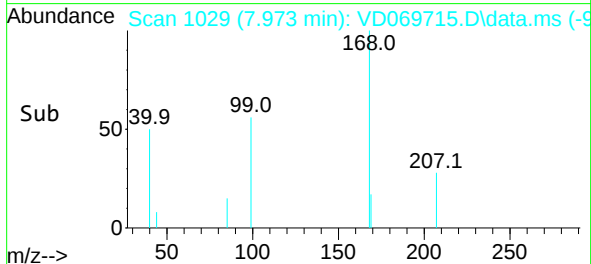
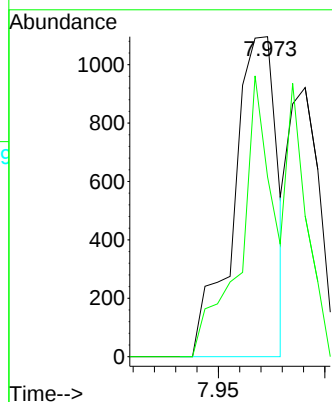
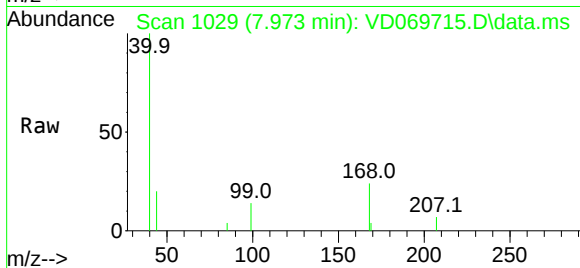




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

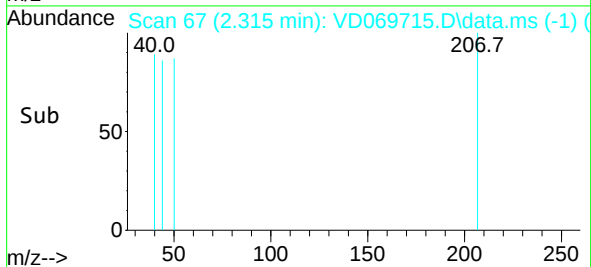
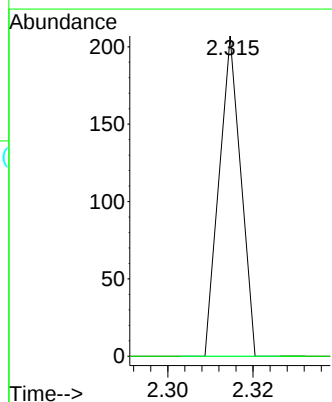
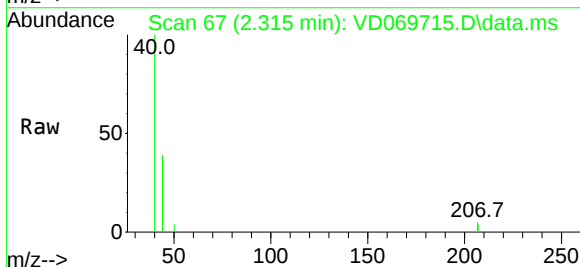
Instrument :
MSVOA_D
ClientSampleId :

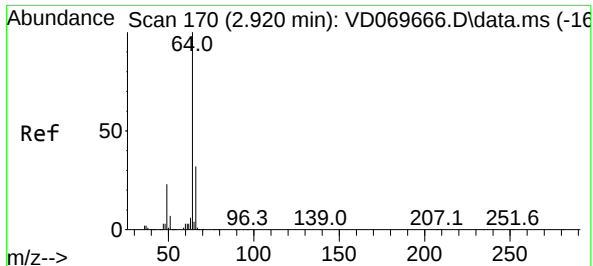
Tgt Ion:168 Resp: 1565
Ion Ratio Lower Upper
168 100
99 56.2 51.8 77.6



#3
Chloromethane
Concen: 3.031 ug/l
RT: 2.315 min Scan# 67
Delta R.T. 0.106 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

Tgt Ion: 50 Resp: 73
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#

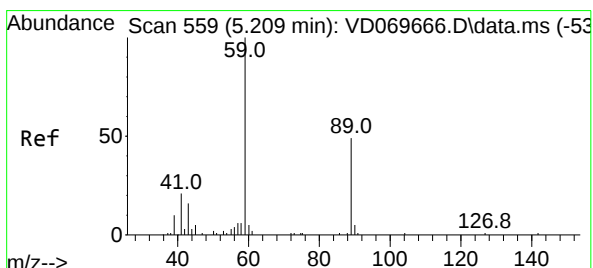
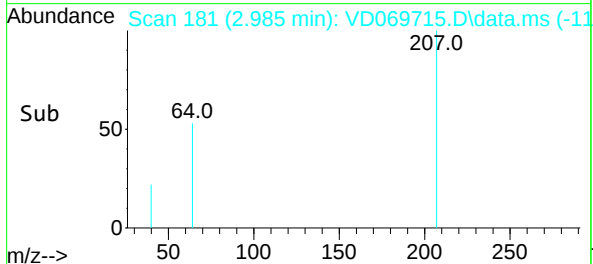
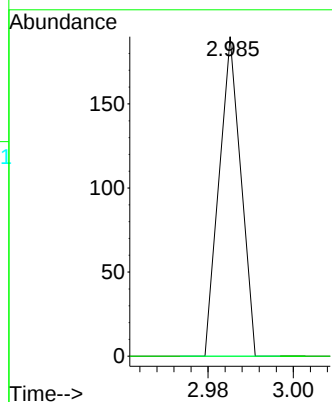
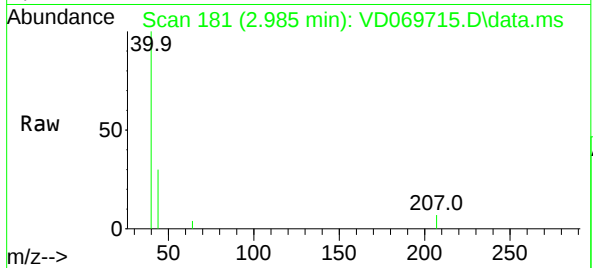




#6
Chloroethane
Concen: 4.399 ug/l
RT: 2.985 min Scan# 181
Delta R.T. 0.065 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

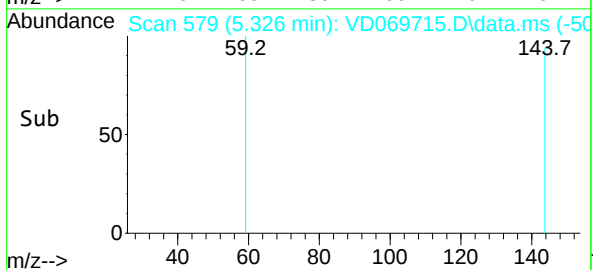
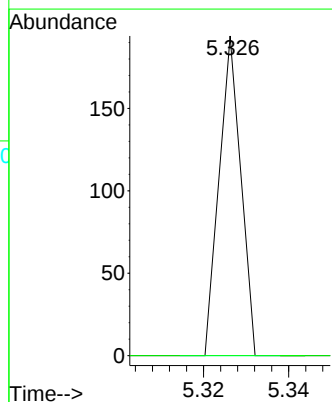
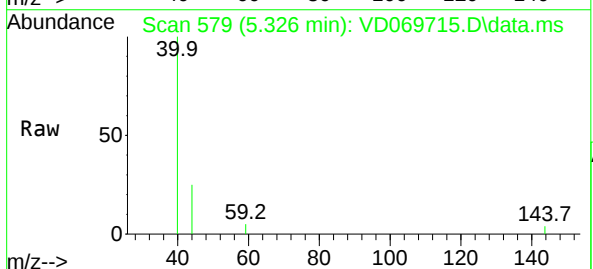
Instrument :
MSVOA_D
ClientSampleId :

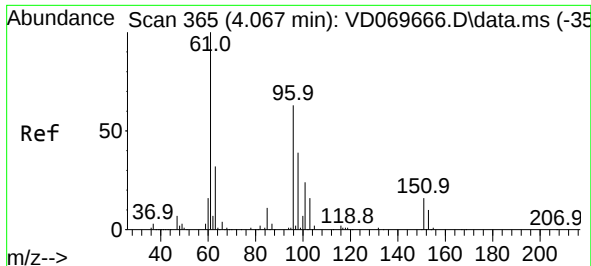
Tgt Ion: 64 Resp: 67
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 26.045 ug/l
RT: 5.326 min Scan# 579
Delta R.T. 0.117 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

Tgt Ion: 59 Resp: 68
Ion Ratio Lower Upper
59 100
57 0.0 5.7 8.5#





#12

1,1-Dichloroethene

Concen: 4.687 ug/l

RT: 4.073 min Scan# 366

Delta R.T. 0.006 min

Lab File: VD069715.D

Acq: 15 Jul 2021 18:59

Tgt Ion: 96 Resp: 80

Ion Ratio Lower Upper

96 100

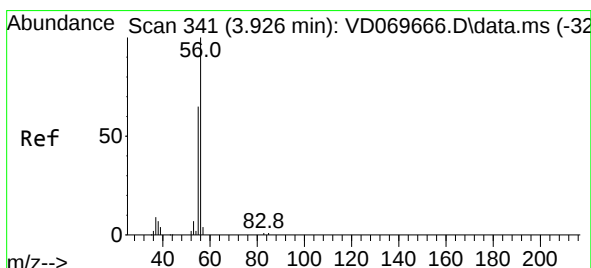
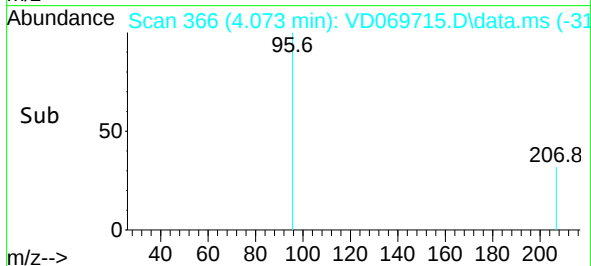
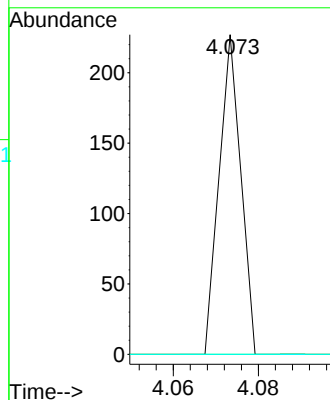
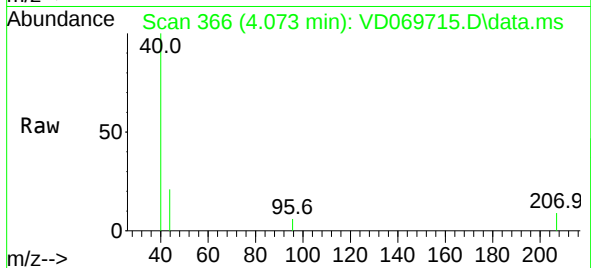
61 0.0 126.4 189.6#

98 0.0 48.9 73.3#

Instrument :

MSVOA_D

ClientSampleId :



#13

Acrolein

Concen: 55.671 ug/l

RT: 4.150 min Scan# 379

Delta R.T. 0.224 min

Lab File: VD069715.D

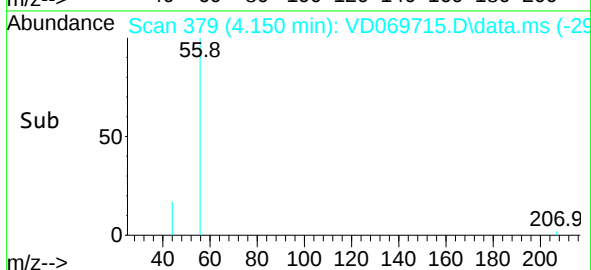
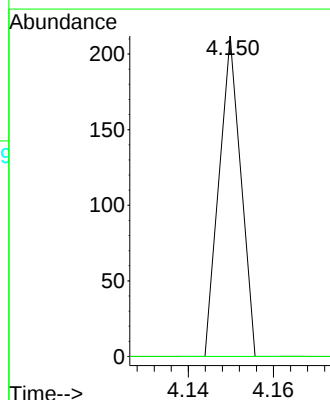
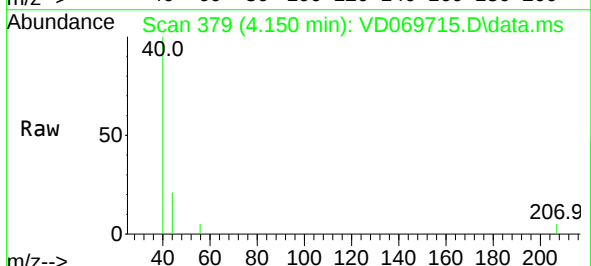
Acq: 15 Jul 2021 18:59

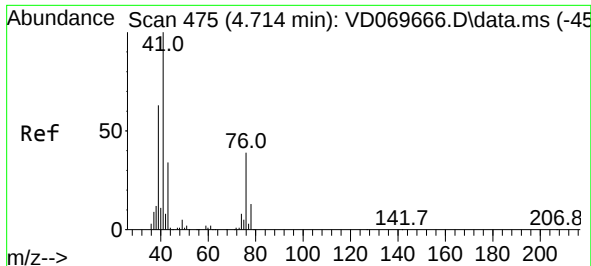
Tgt Ion: 56 Resp: 75

Ion Ratio Lower Upper

56 100

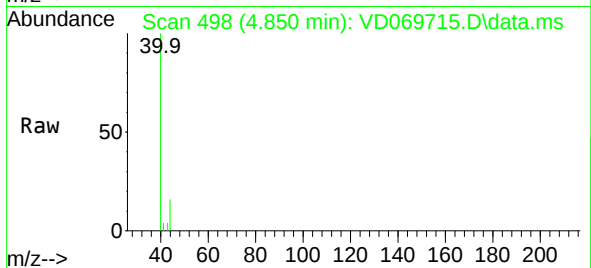
55 0.0 55.3 82.9#



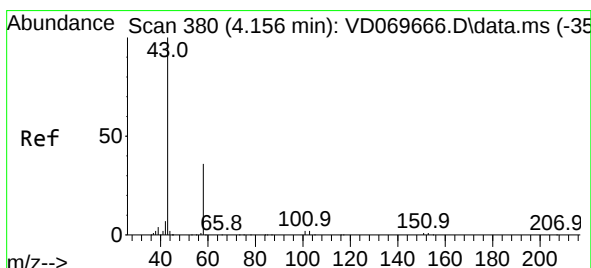
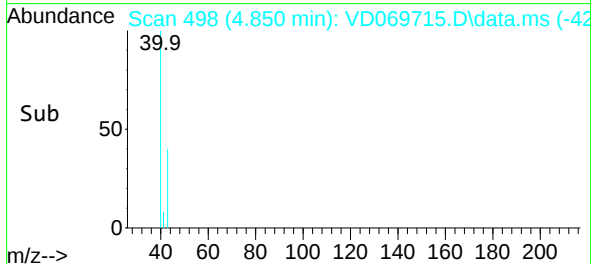
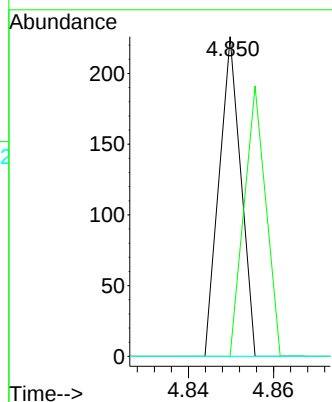


#14
Allyl chloride
Concen: 3.034 ug/l
RT: 4.850 min Scan# 498
Delta R.T. 0.136 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

Instrument :
MSVOA_D
ClientSampleId :

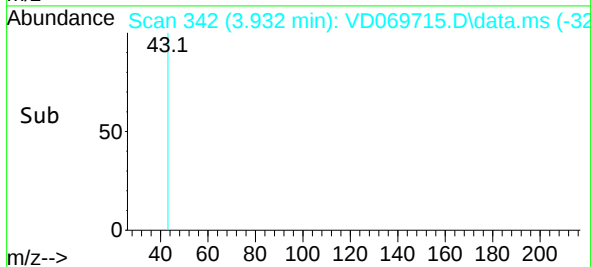
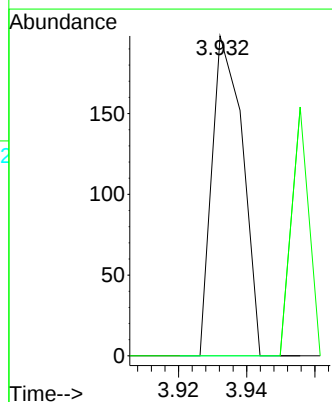
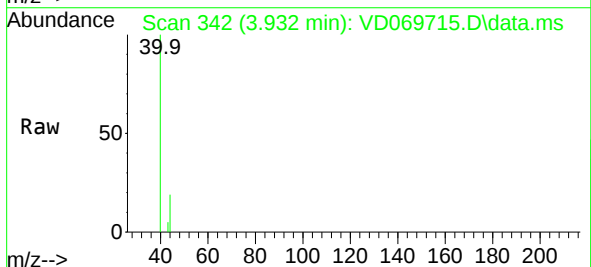


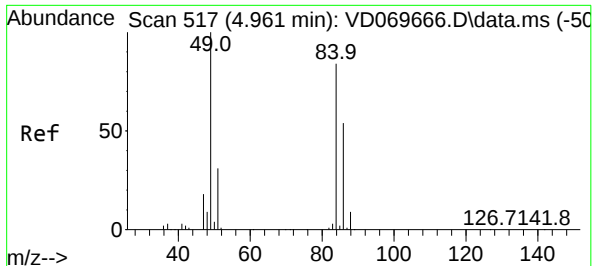
Tgt Ion: 41 Resp: 80
Ion Ratio Lower Upper
41 100
39 83.8 49.4 74.2#
76 0.0 30.7 46.1#



#16
Acetone
Concen: 40.592 ug/l
RT: 3.932 min Scan# 342
Delta R.T. -0.224 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

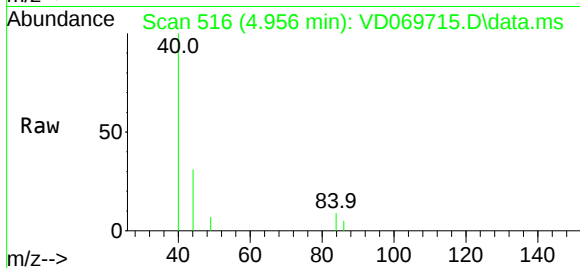
Tgt Ion: 43 Resp: 124
Ion Ratio Lower Upper
43 100
58 0.0 28.6 42.8#



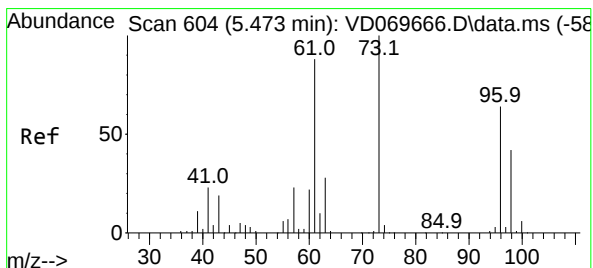
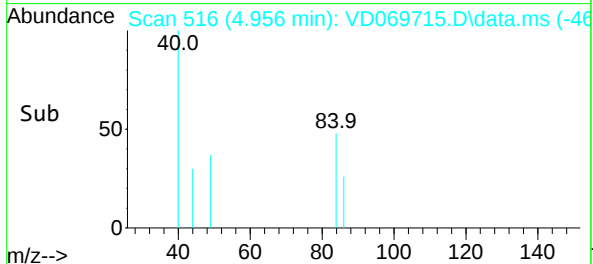
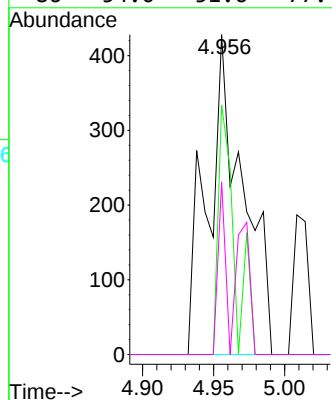


#20
Methylene Chloride
Concen: 23.856 ug/l
RT: 4.956 min Scan# 516
Delta R.T. -0.005 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

Instrument :
MSVOA_D
ClientSampleId :

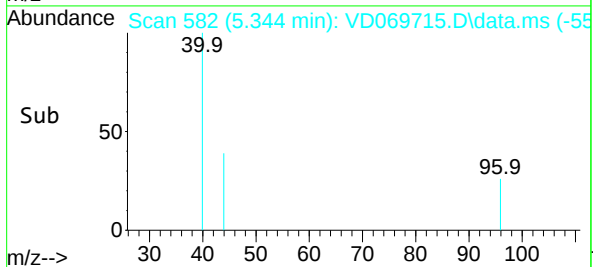
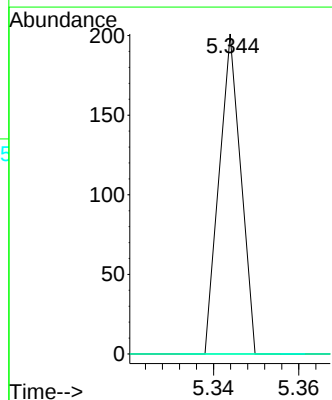
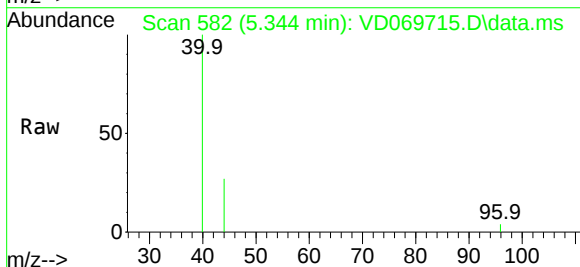


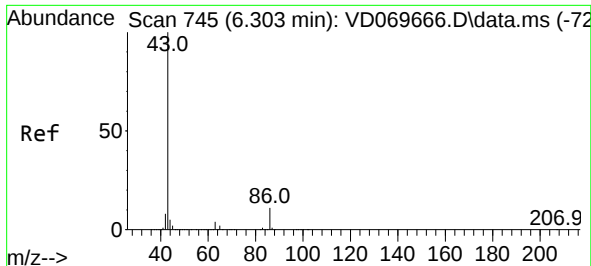
Tgt Ion:	84	Resp:	739
Ion	Ratio	Lower	Upper
84	100		
49	78.0	95.5	143.3#
51	0.0	29.7	44.5#
86	54.0	51.6	77.4



#21
trans-1,2-Dichloroethene
Concen: 3.484 ug/l
RT: 5.344 min Scan# 582
Delta R.T. -0.129 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

Tgt Ion:	96	Resp:	71
Ion	Ratio	Lower	Upper
96	100		
61	0.0	110.9	166.3#
98	0.0	52.2	78.2#

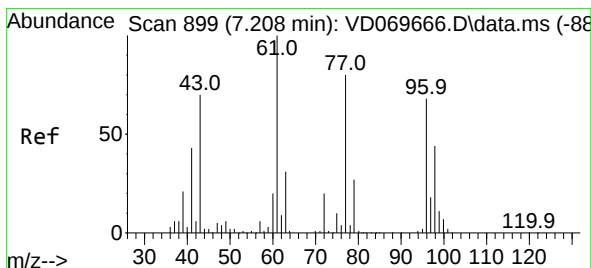
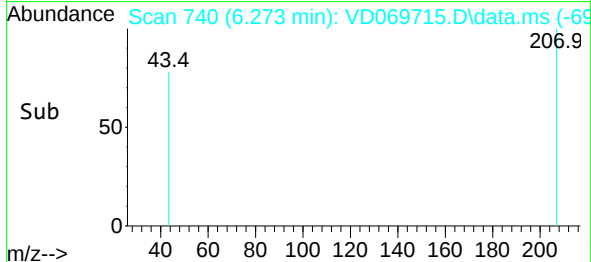
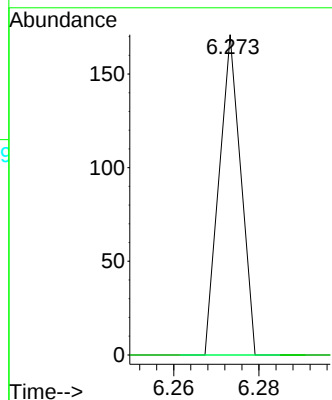
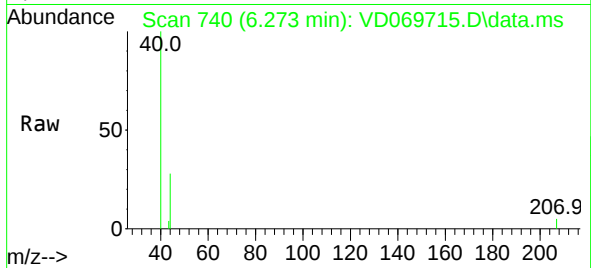




#23
 Vinyl Acetate
 Concen: 17.256 ug/l
 RT: 6.273 min Scan# 740
 Delta R.T. -0.030 min
 Lab File: VD069715.D
 Acq: 15 Jul 2021 18:59

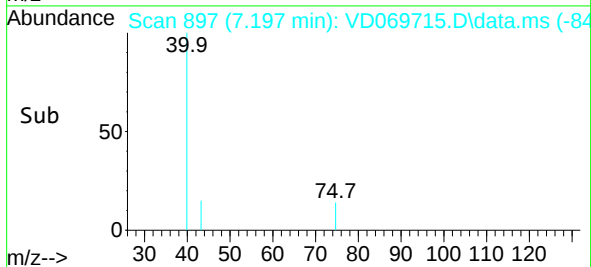
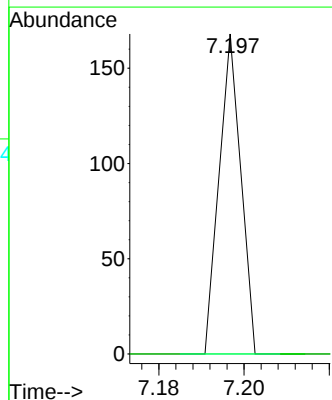
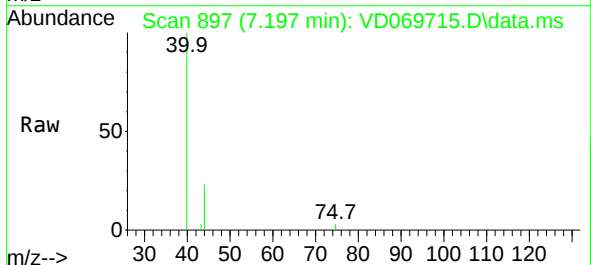
Instrument :
 MSVOA_D
 ClientSampleID :

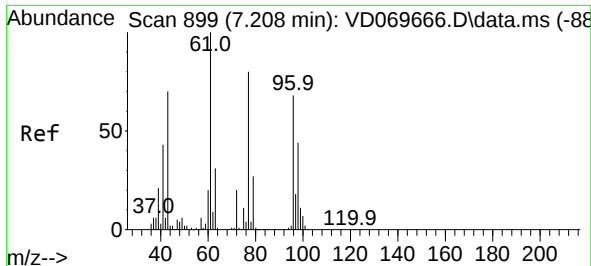
Tgt Ion: 43 Resp: 60
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.6 12.8#



#25
 2-Butanone
 Concen: 12.775 ug/l
 RT: 7.197 min Scan# 897
 Delta R.T. -0.011 min
 Lab File: VD069715.D
 Acq: 15 Jul 2021 18:59

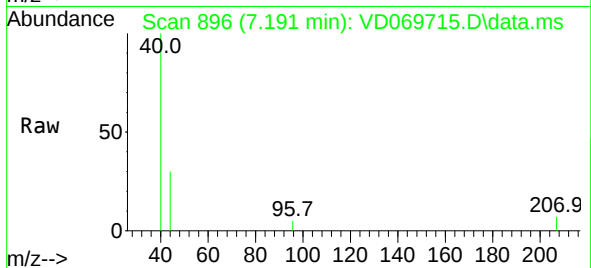
Tgt Ion: 43 Resp: 59
 Ion Ratio Lower Upper
 43 100
 72 0.0 22.6 33.8#



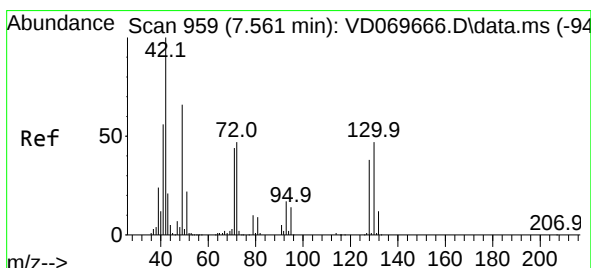
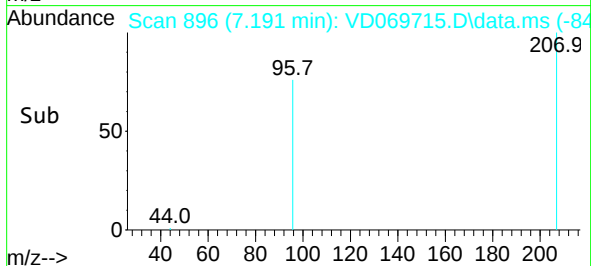
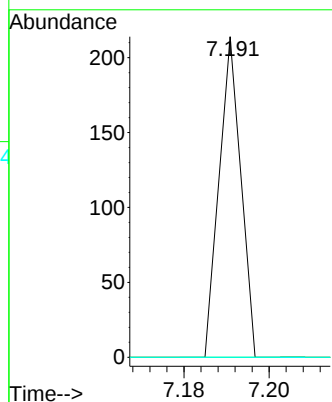


#27
 cis-1,2-Dichloroethene
 Concen: 3.457 ug/l
 RT: 7.191 min Scan# 896
 Delta R.T. -0.017 min
 Lab File: VD069715.D
 Acq: 15 Jul 2021 18:59

Instrument :
 MSVOA_D
 ClientSampleId :

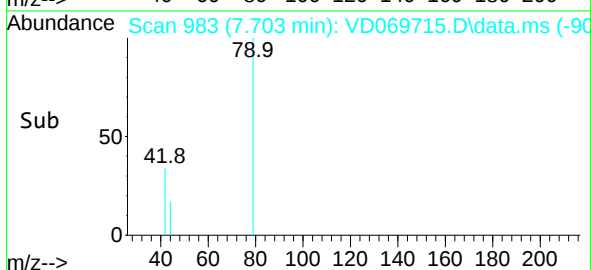
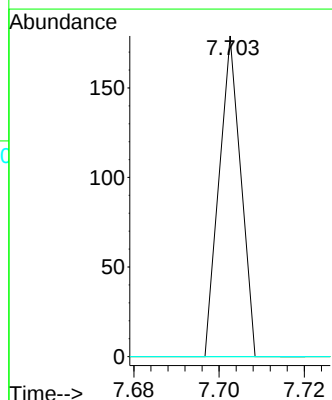
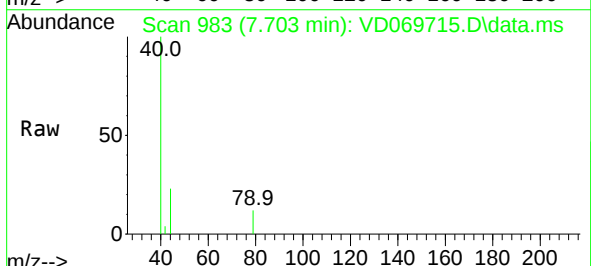


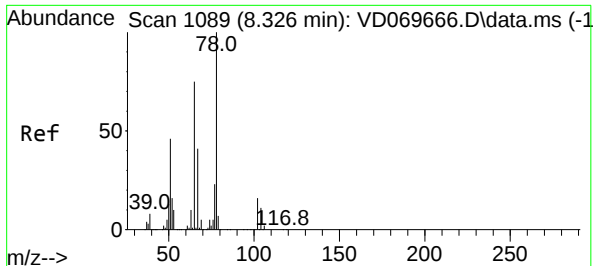
Tgt Ion:	96	Resp:	76
Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	295.8
98	0.0	0.0	127.2



#29
 Tetrahydrofuran
 Concen: 22.017 ug/l
 RT: 7.703 min Scan# 983
 Delta R.T. 0.142 min
 Lab File: VD069715.D
 Acq: 15 Jul 2021 18:59

Tgt Ion:	42	Resp:	63
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.5	54.7#
71	0.0	33.4	50.0#

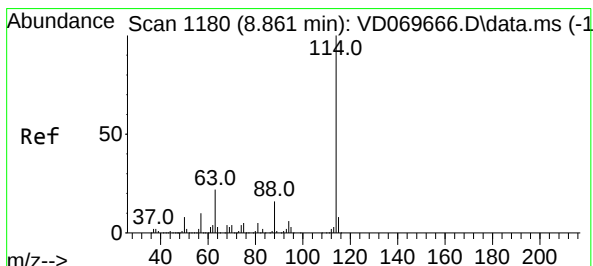
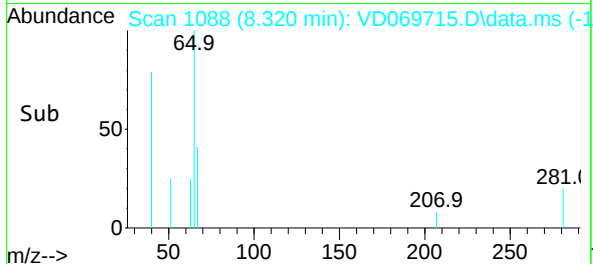
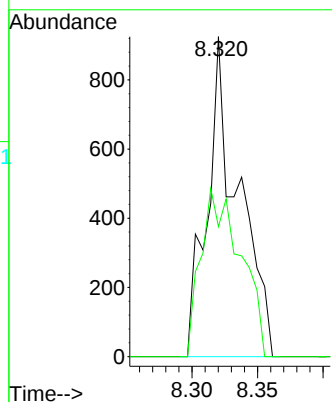
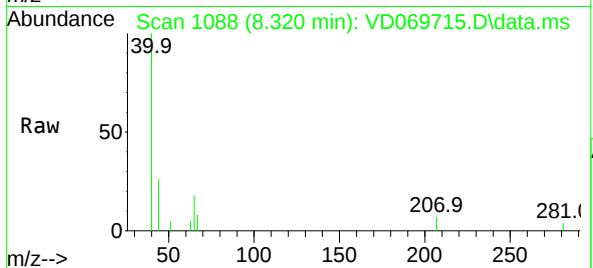




#33
1,2-Dichloroethane-d4
Concen: 78.246 ug/l
RT: 8.320 min Scan# 1088
Delta R.T. -0.006 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

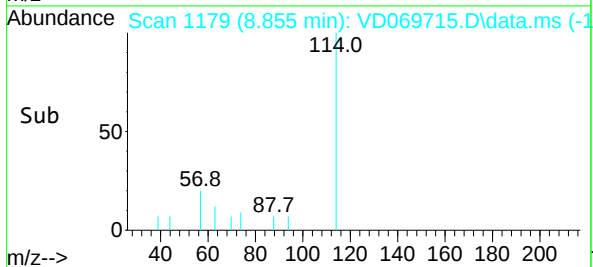
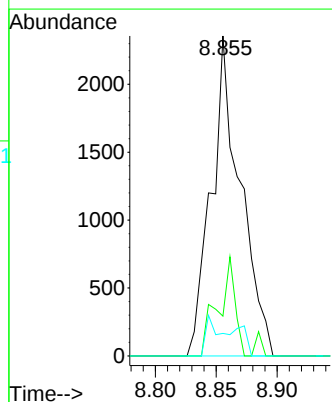
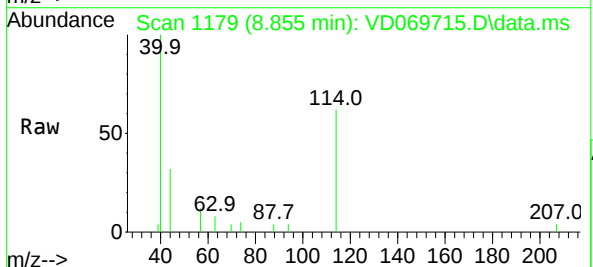
Instrument :
MSVOA_D
ClientSampleId :

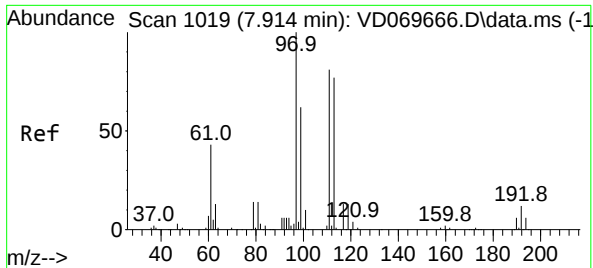
Tgt Ion: 65 Resp: 1529
Ion Ratio Lower Upper
65 100
67 67.0 0.0 107.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1179
Delta R.T. -0.006 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

Tgt Ion: 114 Resp: 3913
Ion Ratio Lower Upper
114 100
63 12.4 0.0 43.4
88 7.0 0.0 32.0

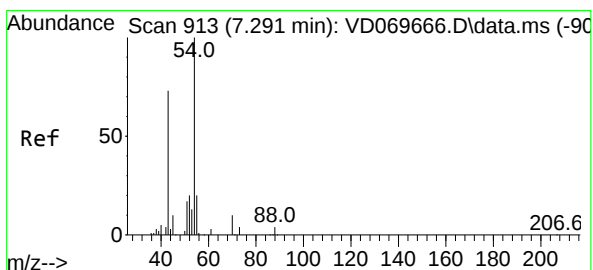
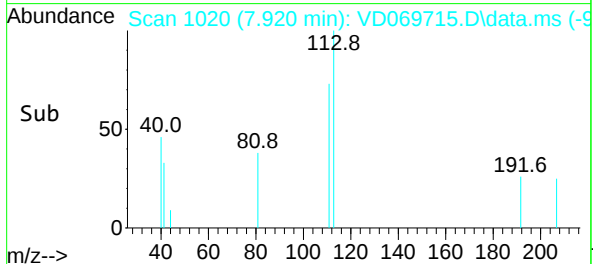
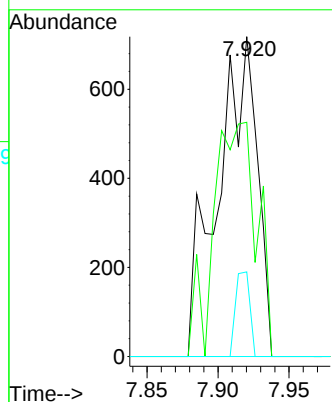
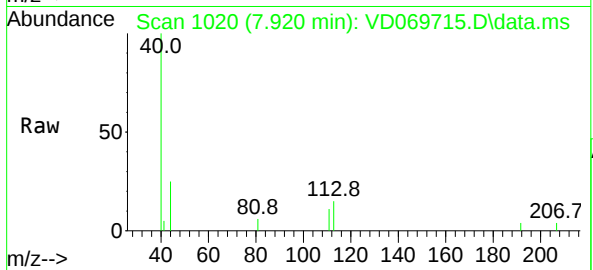




#35
Dibromofluoromethane
Concen: 53.102 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. 0.006 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

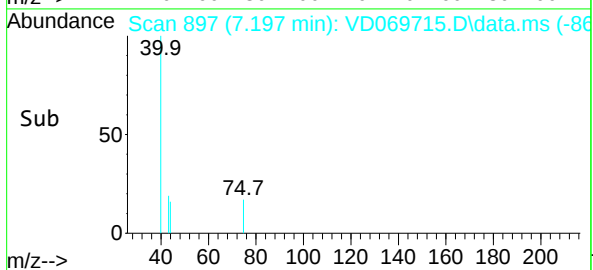
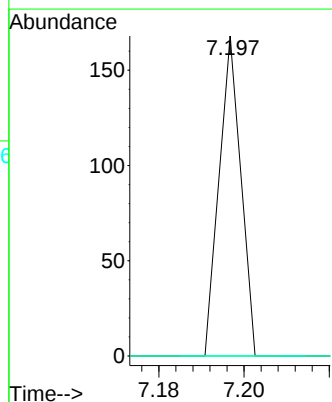
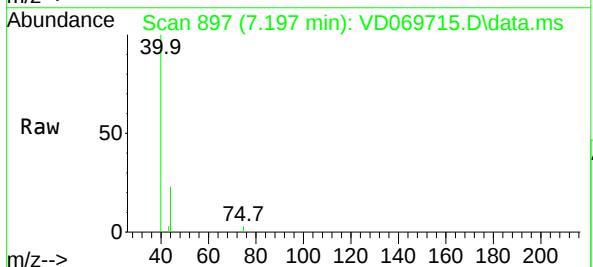
Instrument :
MSVOA_D
ClientSampleId :

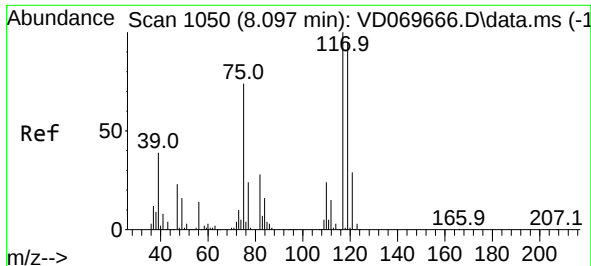
Tgt Ion:113 Resp: 1394
Ion Ratio Lower Upper
113 100
111 80.1 82.6 123.8#
192 9.5 12.7 19.1#



#37
Ethyl Acetate
Concen: 3.864 ug/l
RT: 7.197 min Scan# 897
Delta R.T. -0.094 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

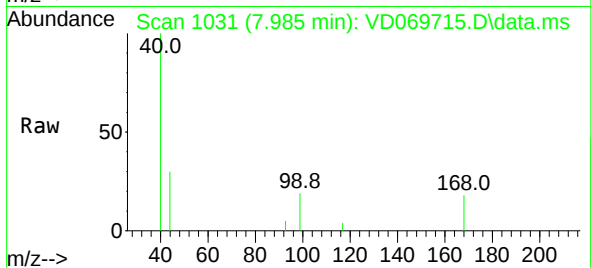
Tgt Ion: 43 Resp: 59
Ion Ratio Lower Upper
43 100
61 0.0 12.1 18.1#
70 0.0 8.4 12.6#



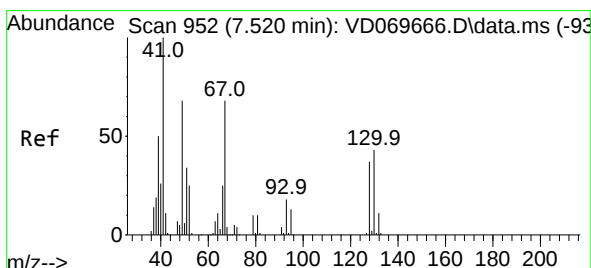
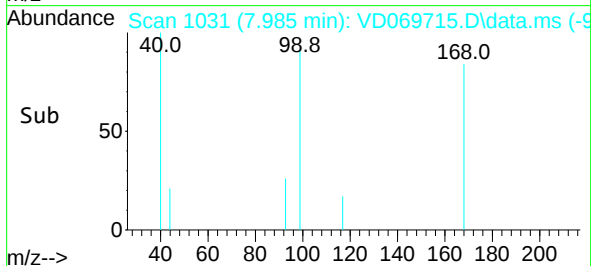
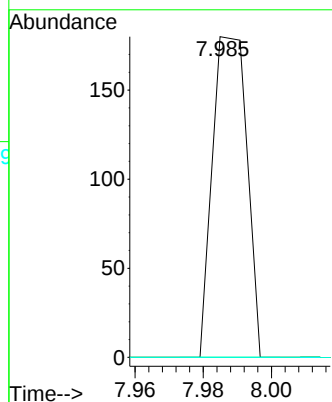


#38
Carbon Tetrachloride
Concen: 3.409 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.112 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

Instrument :
MSVOA_D
ClientSampleId :

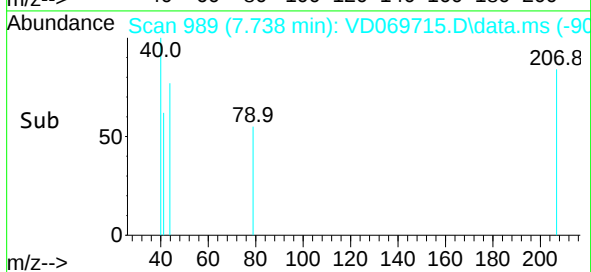
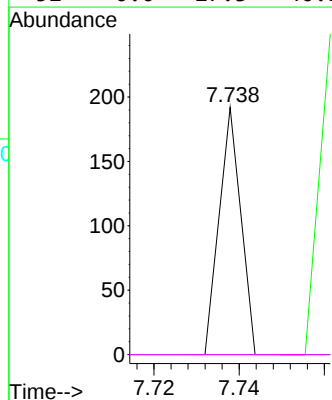
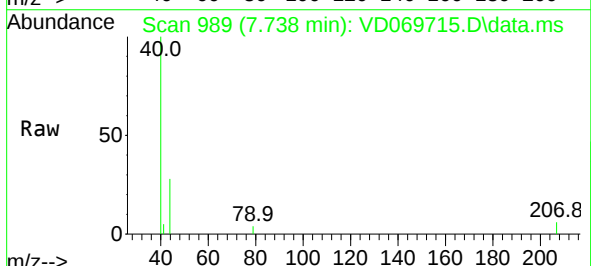


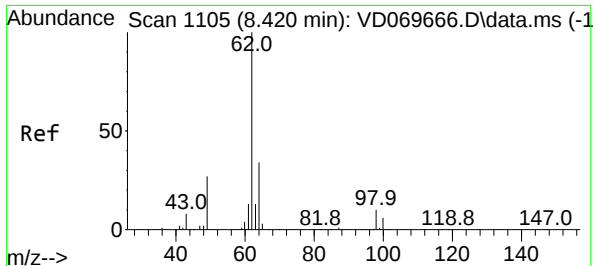
Tgt Ion:117 Resp: 126
Ion Ratio Lower Upper
117 100
119 0.0 75.7 113.5#
121 0.0 23.0 34.6#



#41
Methacrylonitrile
Concen: 8.593 ug/l
RT: 7.738 min Scan# 989
Delta R.T. 0.218 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

Tgt Ion: 41 Resp: 68
Ion Ratio Lower Upper
41 100
39 0.0 47.4 71.0#
67 0.0 67.0 100.6#
52 0.0 27.3 40.9#





#42

1,2-Dichloroethane

Concen: 1.867 ug/l

RT: 8.185 min Scan# 1065

Delta R.T. -0.235 min

Lab File: VD069715.D

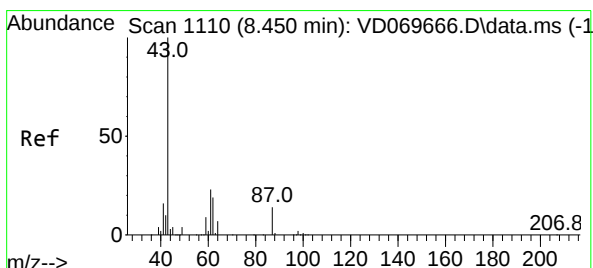
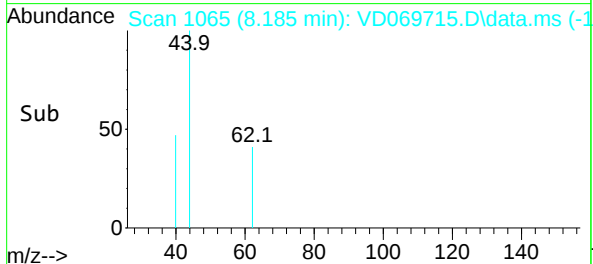
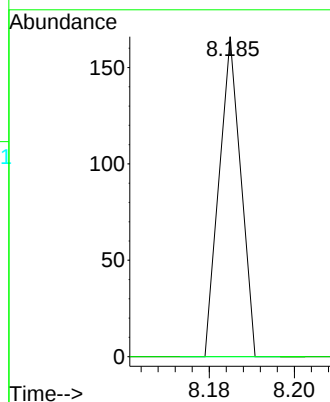
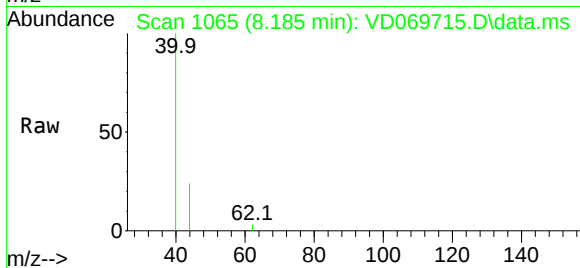
Acq: 15 Jul 2021 18:59

Tgt Ion: 62 Resp: 59

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.2



#43

Isopropyl Acetate

Concen: 1.931 ug/l

RT: 8.420 min Scan# 1105

Delta R.T. -0.030 min

Lab File: VD069715.D

Acq: 15 Jul 2021 18:59

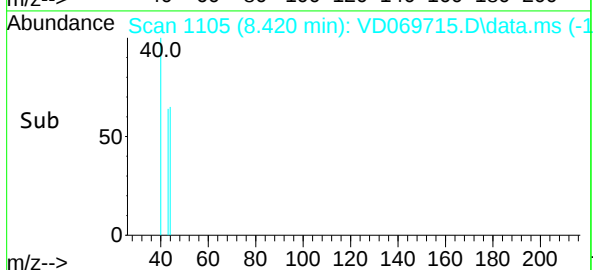
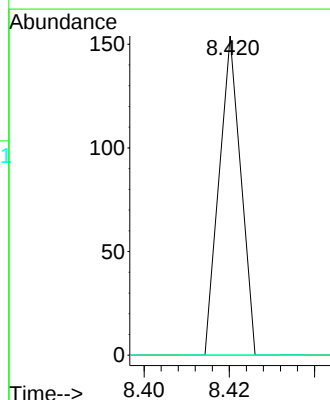
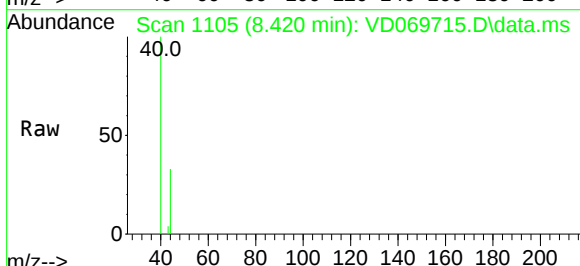
Tgt Ion: 43 Resp: 54

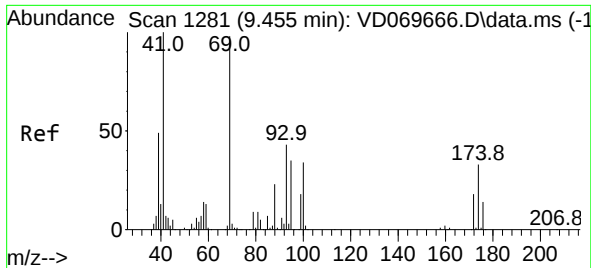
Ion Ratio Lower Upper

43 100

61 0.0 27.8 41.6#

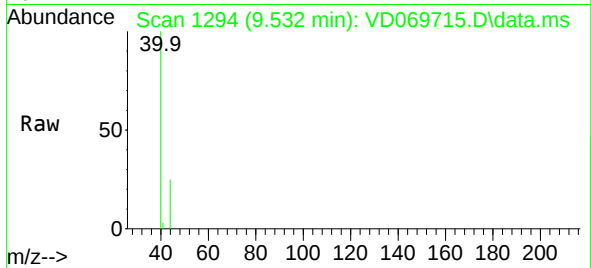
87 0.0 11.0 16.6#



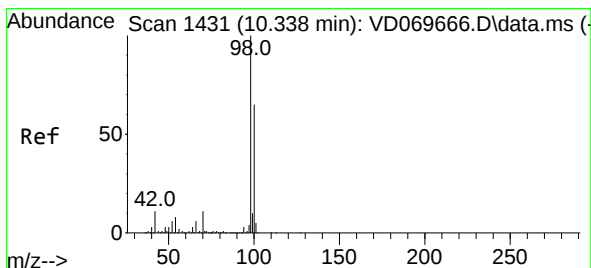
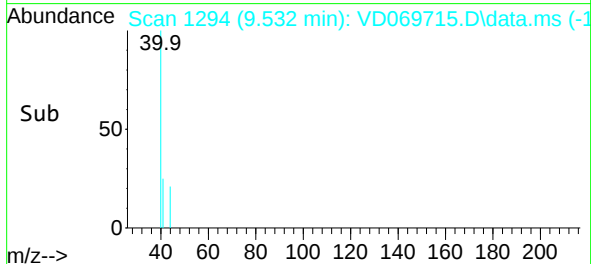
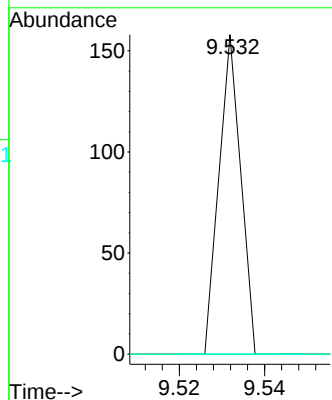


#48
Methyl methacrylate
Concen: 4.875 ug/l
RT: 9.532 min Scan# 1294
Delta R.T. 0.077 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

Instrument :
MSVOA_D
ClientSampled :

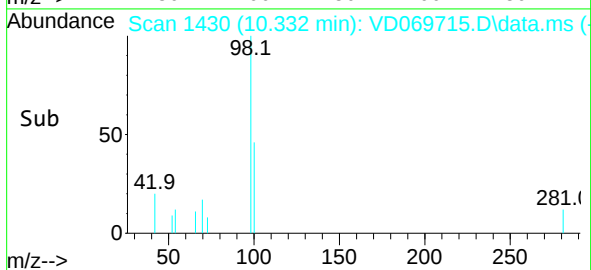
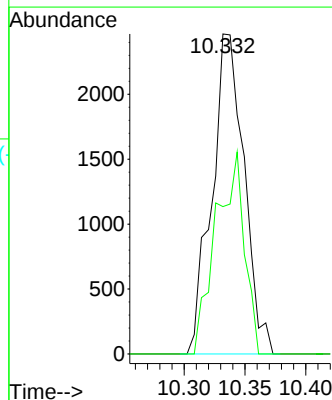
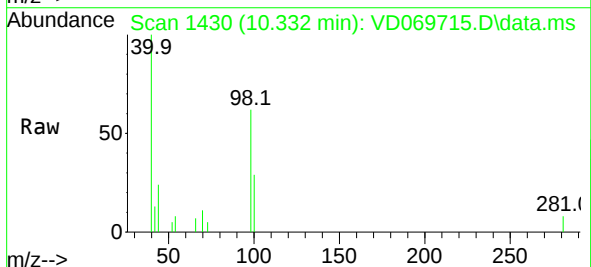


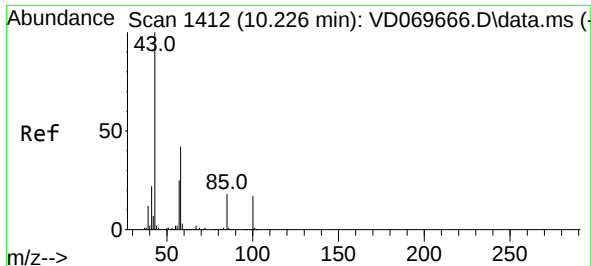
Tgt Ion: 41 Resp: 56
Ion Ratio Lower Upper
41 100
69 0.0 71.6 107.4#
39 0.0 36.7 55.1#



#50
Toluene-d8
Concen: 44.535 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

Tgt Ion: 98 Resp: 4542
Ion Ratio Lower Upper
98 100
100 55.7 52.2 78.2

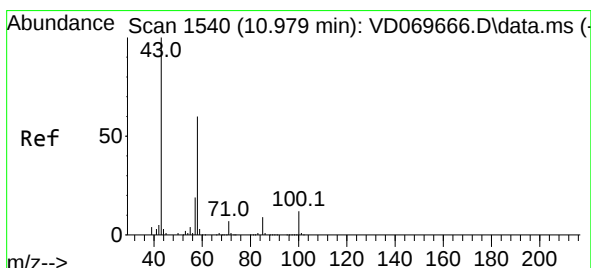
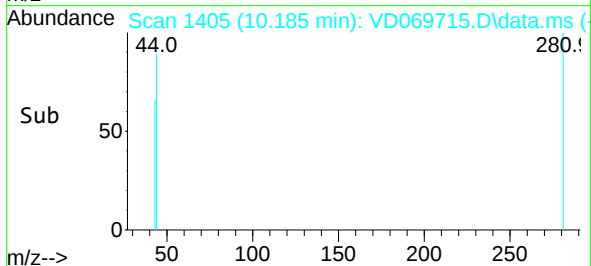
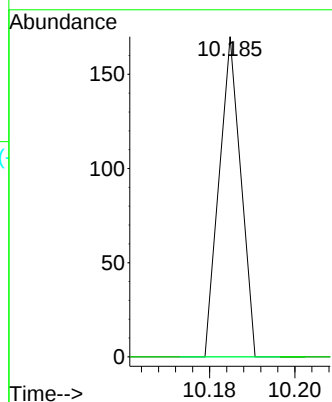
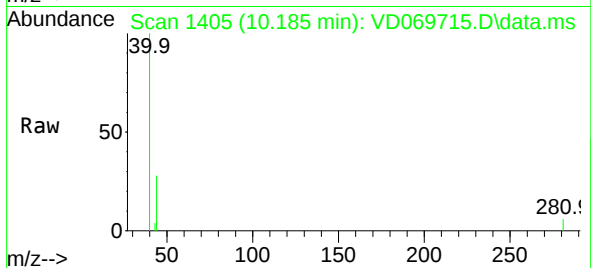




#51
4-Methyl-2-Pentanone
Concen: 4.143 ug/l
RT: 10.185 min Scan# 1405
Delta R.T. -0.041 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

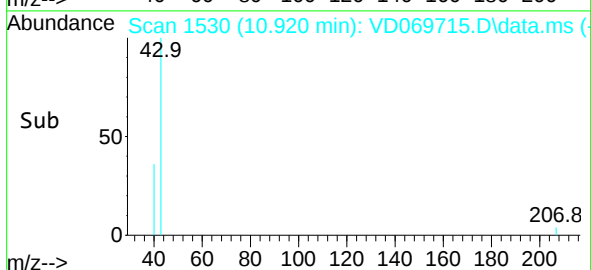
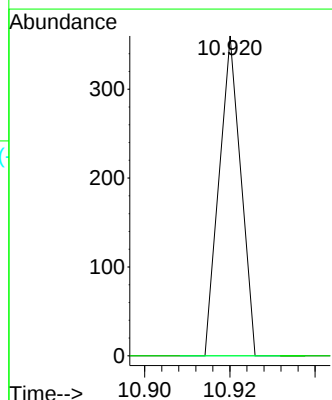
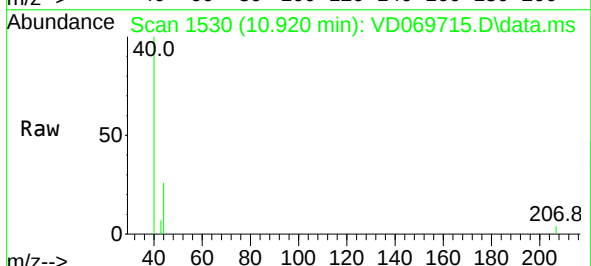
Instrument :
MSVOA_D
ClientSampleId :

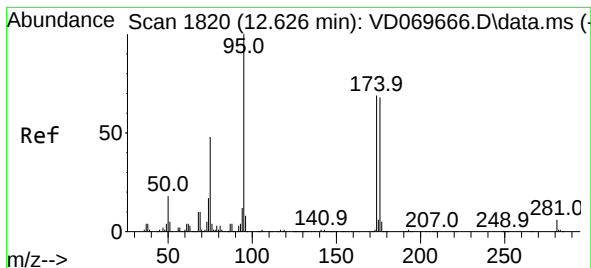
Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
58 0.0 33.5 50.3#



#59
2-Hexanone
Concen: 13.158 ug/l
RT: 10.920 min Scan# 1530
Delta R.T. -0.059 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

Tgt Ion: 43 Resp: 127
Ion Ratio Lower Upper
43 100
58 0.0 29.1 87.4#

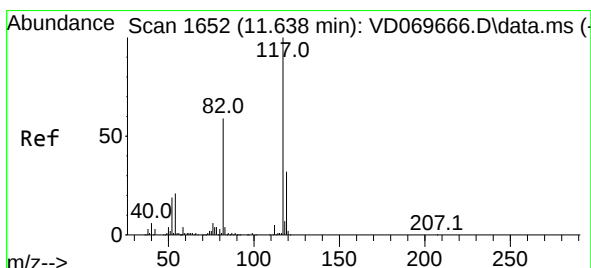
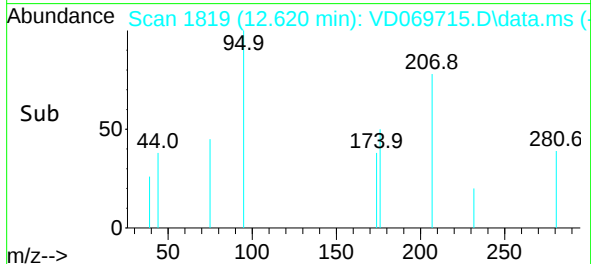
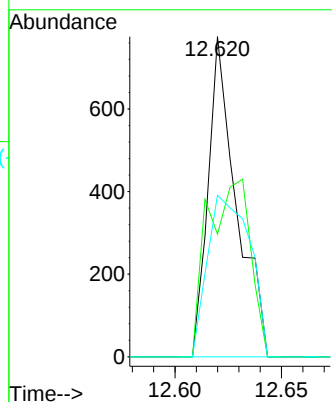
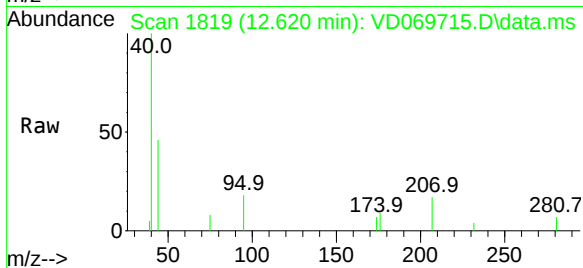




#62
4-Bromofluorobenzene
Concen: 21.021 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

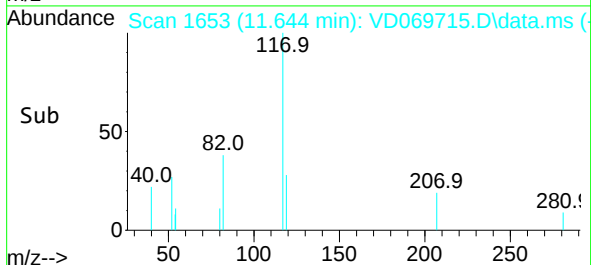
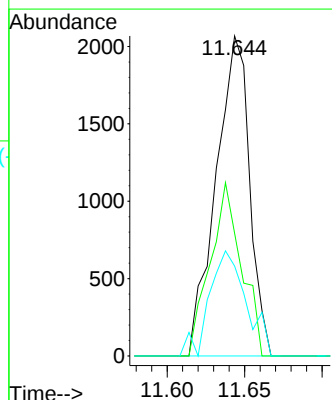
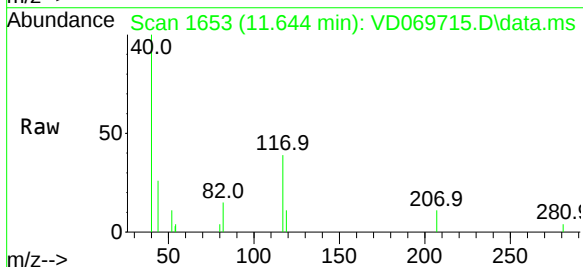
Instrument :
MSVOA_D
ClientSampleId :

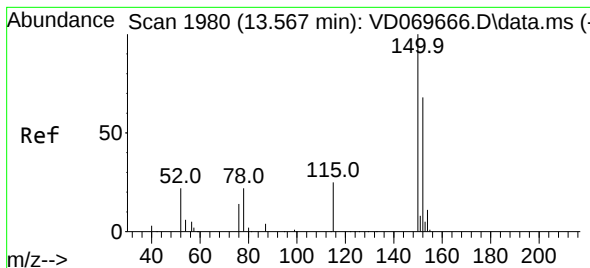
Tgt Ion:	95	Resp:	715
Ion	Ratio	Lower	Upper
95	100		
174	83.5	0.0	140.0
176	75.4	0.0	136.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. 0.006 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

Tgt Ion:	117	Resp:	3113
Ion	Ratio	Lower	Upper
117	100		
82	38.3	47.4	71.2#
119	28.1	25.5	38.3

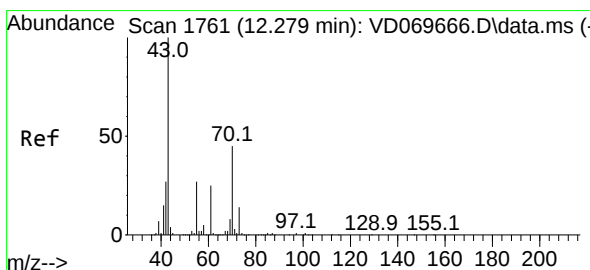
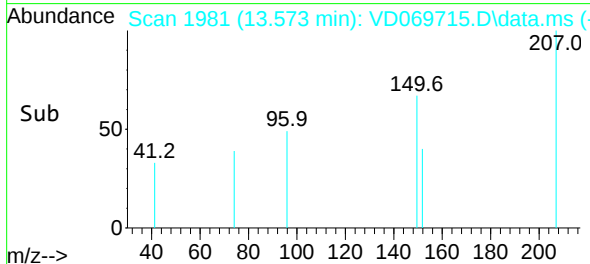
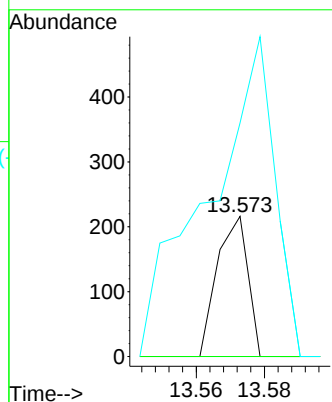
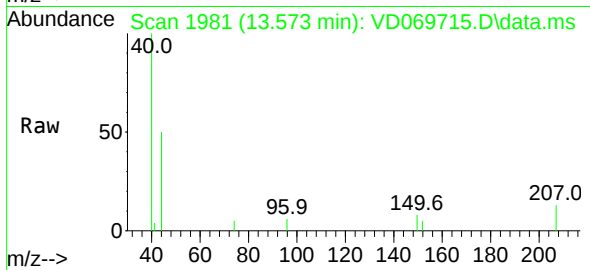




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. 0.006 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

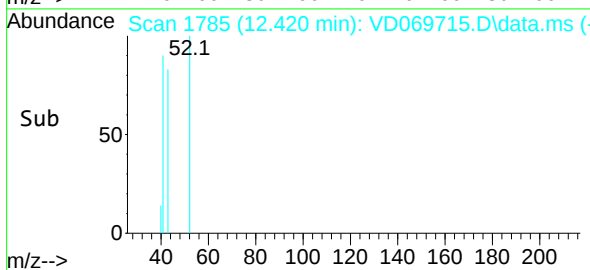
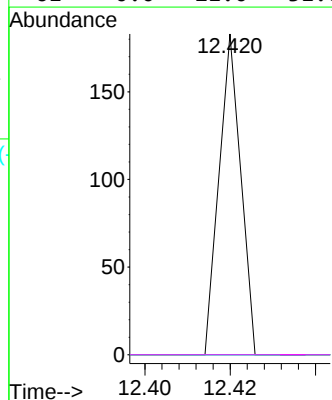
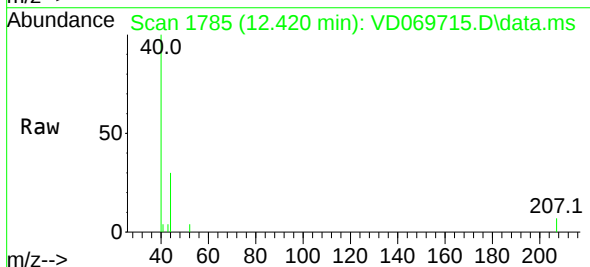
Instrument :
MSVOA_D
ClientSampleId :

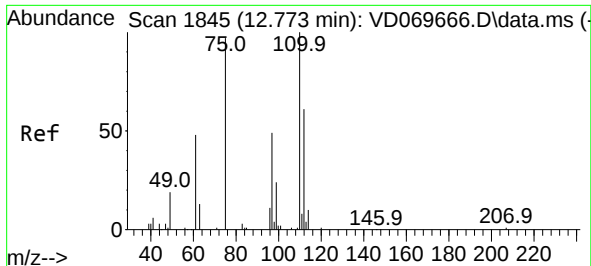
Tgt Ion:152 Resp: 134
Ion Ratio Lower Upper
152 100
115 0.0 31.7 95.1#
150 500.0 0.0 350.4#



#74
N-ethyl acetate
Concen: 31.350 ug/l
RT: 12.420 min Scan# 1785
Delta R.T. 0.141 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

Tgt Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
70 0.0 36.9 55.3#
55 0.0 22.4 33.6#
61 0.0 21.0 31.6#

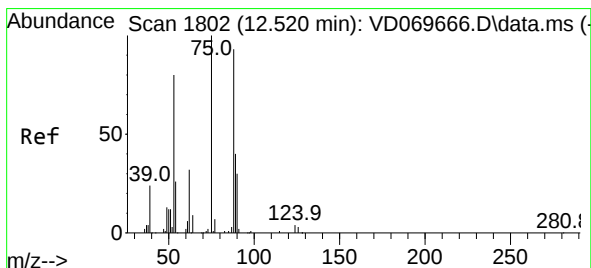
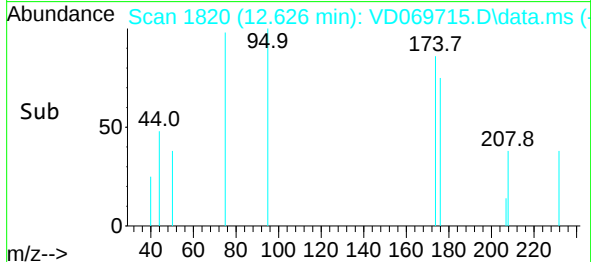
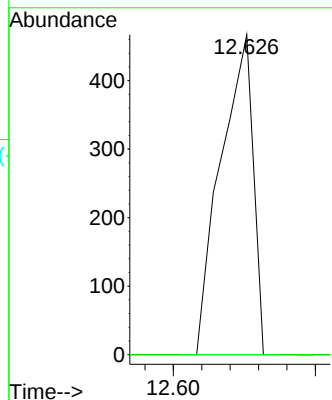
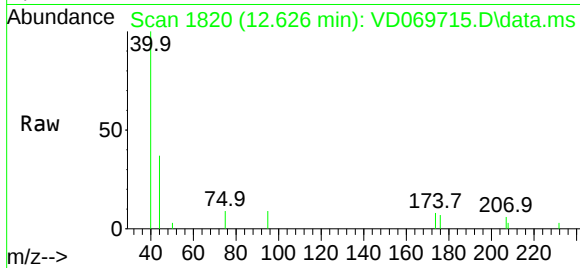




#76
1,2,3-Trichloropropane
Concen: 284.228 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

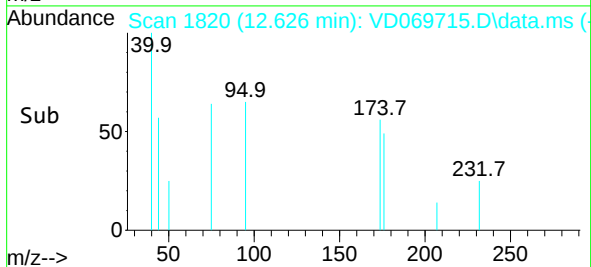
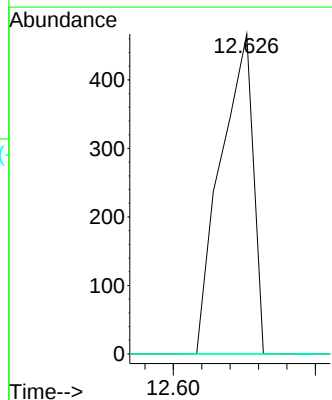
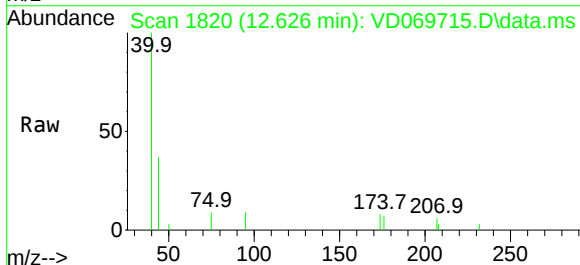
Instrument :
MSVOA_D
ClientSampleId :

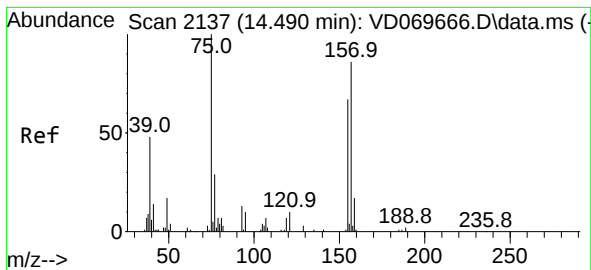
Tgt Ion: 75 Resp: 370
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 763.850 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD069715.D
Acq: 15 Jul 2021 18:59

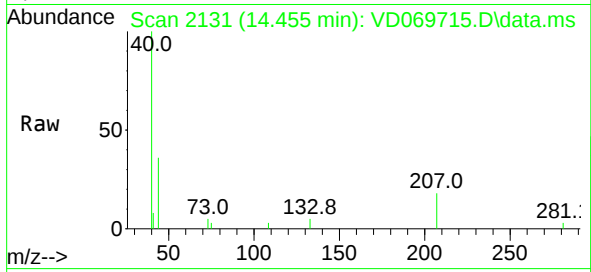
Tgt Ion: 75 Resp: 370
Ion Ratio Lower Upper
75 100
53 0.0 70.6 106.0#
89 0.0 35.1 52.7#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 215.495 ug/l
 RT: 14.455 min Scan# 2131
 Delta R.T. -0.035 min
 Lab File: VD069715.D
 Acq: 15 Jul 2021 18:59

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion: 75 Resp: 61
 Ion Ratio Lower Upper
 75 100
 155 0.0 35.9 107.7#
 157 0.0 45.6 136.9#

