

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD071921\
 Data File : VD069745.D
 Acq On : 19 Jul 2021 12:03
 Operator : VA/SY
 Sample : M3038-01
 Misc : 5.06G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 20 02:10:53 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)

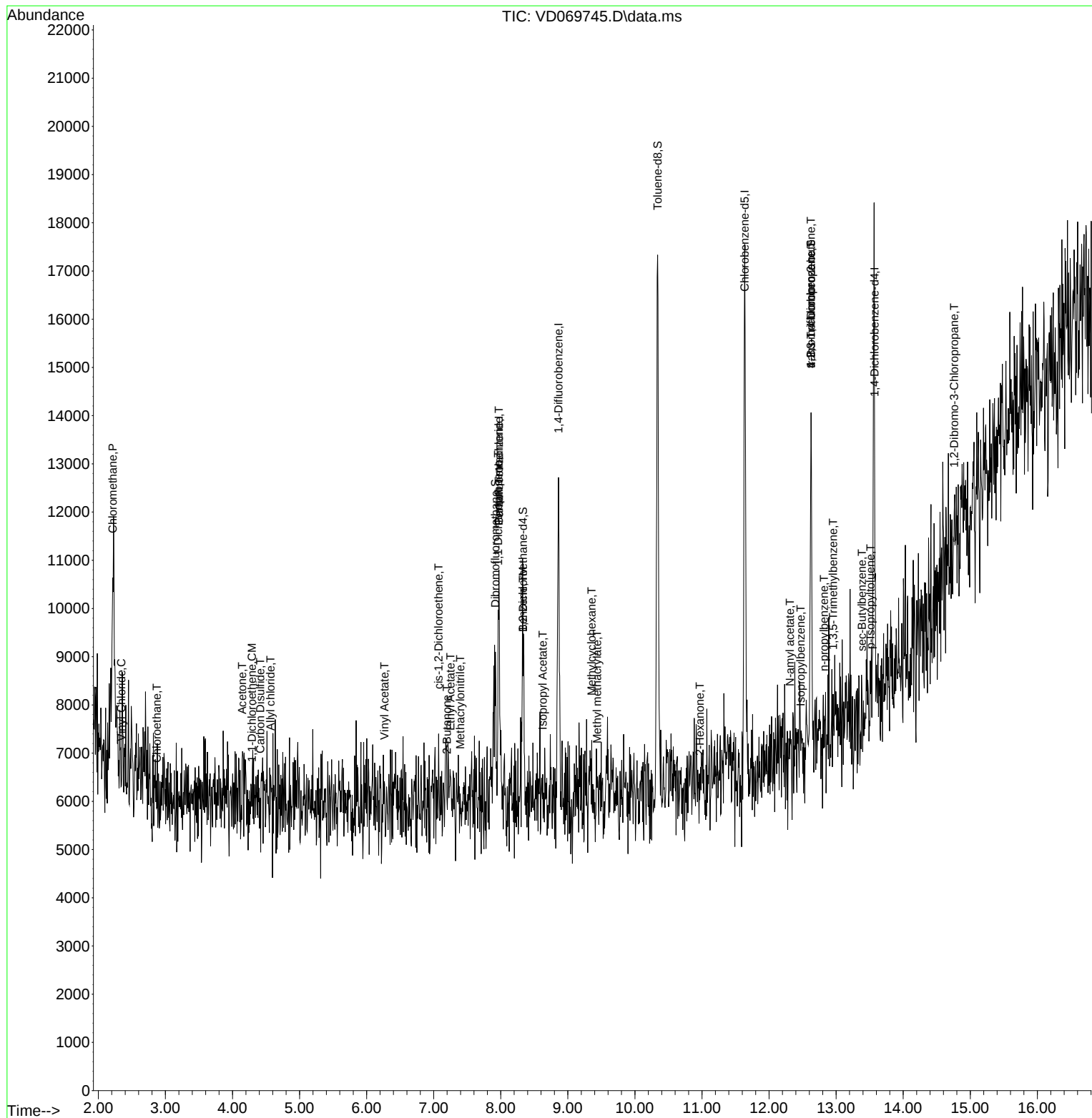
Internal Standards						
1) Pentafluorobenzene	7.973	168	3715	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	6254	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.637	117	6799	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	2541	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	3307	71.292	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 142.580%			
35) Dibromofluoromethane	7.920	113	2188	52.149	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.300%			
50) Toluene-d8	10.337	98	8890	54.539	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 109.080%			
62) 4-Bromofluorobenzene	12.626	95	2928	53.860	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 107.720%			
Target Compounds						Qvalue
3) Chloromethane	2.214	50	237	4.253	ug/l #	49
4) Vinyl Chloride	2.344	62	124	2.194	ug/l #	43
6) Chloroethane	2.873	64	141	3.900	ug/l #	43
12) 1,1-Dichloroethene	4.291	96	63	1.555	ug/l #	1
14) Allyl chloride	4.567	41	68	1.086	ug/l #	26
16) Acetone	4.144	43	338	44.729	ug/l #	39
17) Carbon Disulfide	4.414	76	99	1.122	ug/l #	74
18) Methyl Acetate	4.908	43	56	Below Cal	#	49
20) Methylene Chloride	4.955	84	239	Below Cal	#	3
23) Vinyl Acetate	6.267	43	70	16.325	ug/l #	72
25) 2-Butanone	7.196	43	76	6.932	ug/l #	47
27) cis-1,2-Dichloroethene	7.073	96	68	1.303	ug/l #	1
36) 1,1-Dichloropropene	7.961	75	419	6.494	ug/l #	42
37) Ethyl Acetate	7.249	43	70	2.868	ug/l #	67
38) Carbon Tetrachloride	7.973	117	374	6.330	ug/l #	13
39) Methylcyclohexane	9.355	83	140	3.704	ug/l #	16
40) Benzene	8.332	78	443	2.381	ug/l #	51
41) Methacrylonitrile	7.396	41	79	6.246	ug/l #	18
43) Isopropyl Acetate	8.626	43	74	1.656	ug/l #	47
48) Methyl methacrylate	9.437	41	85	4.686	ug/l #	13
59) 2-Hexanone	10.967	43	56	3.630	ug/l #	22
73) Isopropylbenzene	12.473	105	327	1.807	ug/l #	49
74) N-amyl acetate	12.314	43	113	2.874	ug/l #	40
76) 1,2,3-Trichloropropane	12.626	75	1248	50.557	ug/l #	100
78) n-propylbenzene	12.820	91	277	1.207	ug/l #	54
80) 1,3,5-Trimethylbenzene	12.955	105	442	2.880	ug/l #	29
81) trans-1,4-Dichloro-2-b...	12.626	75	1248	135.869	ug/l #	14
85) sec-Butylbenzene	13.384	105	201	1.022	ug/l #	58
86) p-Isopropyltoluene	13.514	119	319	1.992	ug/l #	50
92) 1,2-Dibromo-3-Chloropr...	14.761	75	55	10.246	ug/l #	8

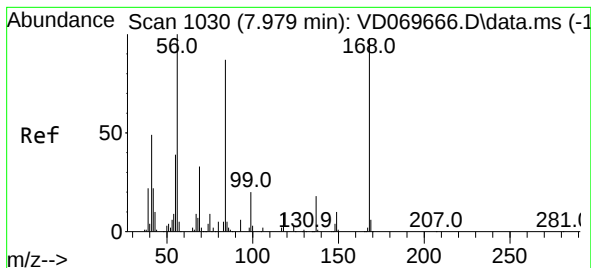
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

Quant Time: Jul 20 02:10:53 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071321S.M
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QLast Update : Wed Jul 14 06:00:31 2021
Response via : Initial Calibration

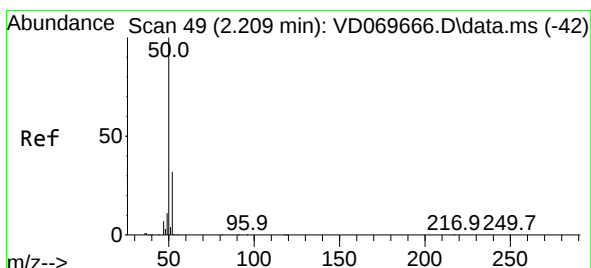
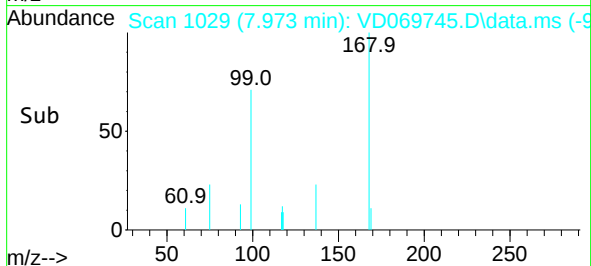
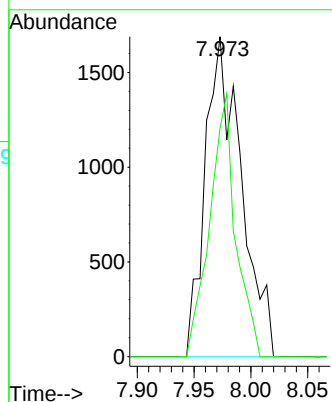
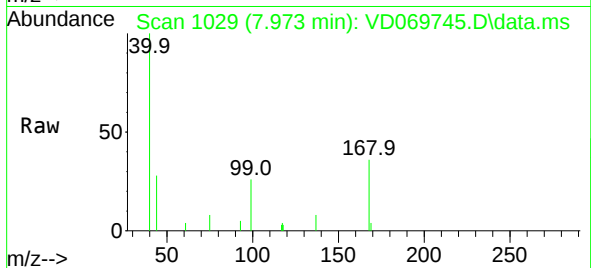




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

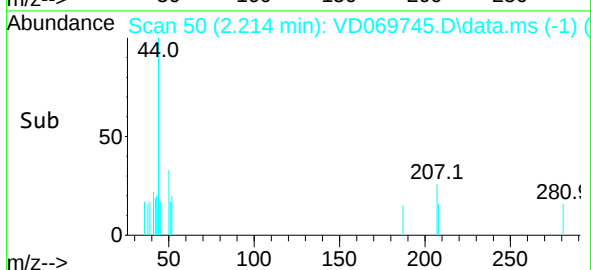
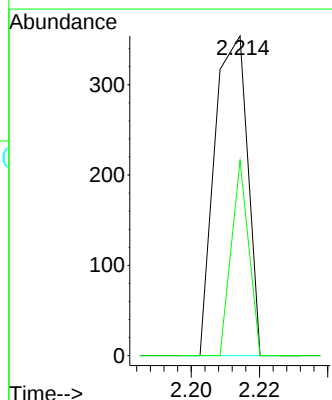
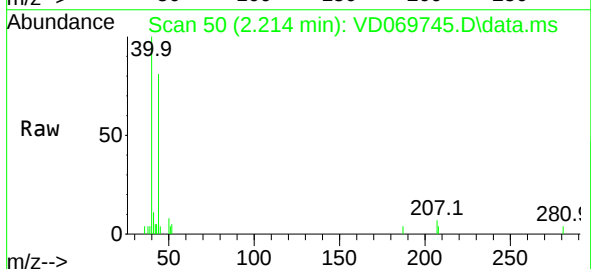
Instrument :
MSVOA_D
ClientSampleId :

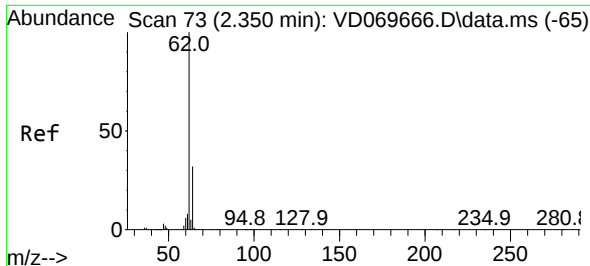
Tgt Ion:168 Resp: 3715
Ion Ratio Lower Upper
168 100
99 71.4 51.8 77.6



#3
Chloromethane
Concen: 4.253 ug/l
RT: 2.214 min Scan# 50
Delta R.T. 0.005 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

Tgt Ion: 50 Resp: 237
Ion Ratio Lower Upper
50 100
52 61.0 25.9 38.9#

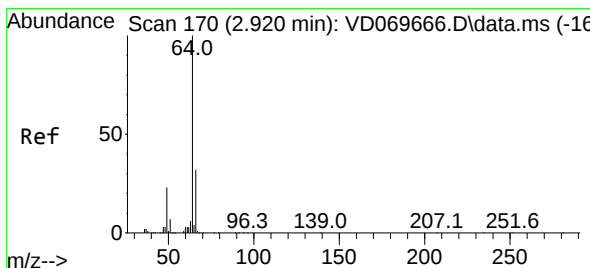
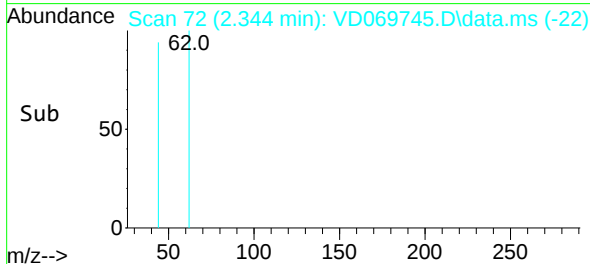
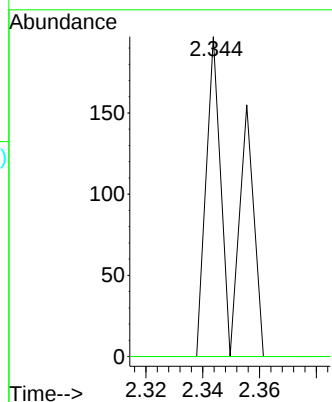
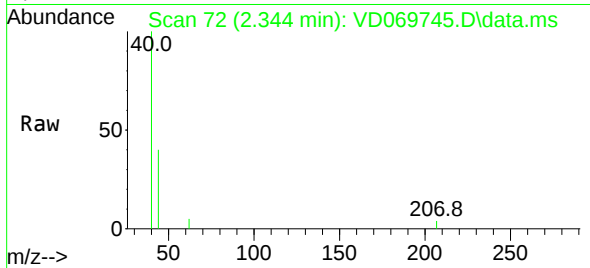




#4
 Vinyl Chloride
 Concen: 2.194 ug/l
 RT: 2.344 min Scan# 72
 Delta R.T. -0.006 min
 Lab File: VD069745.D
 Acq: 19 Jul 2021 12:03

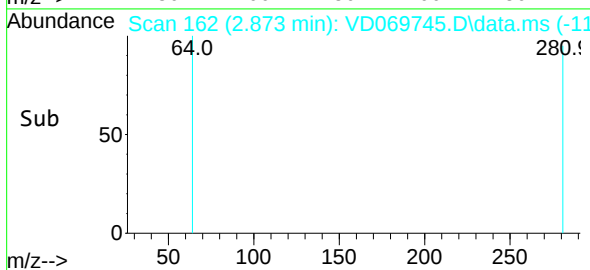
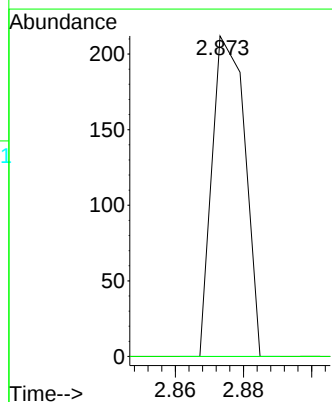
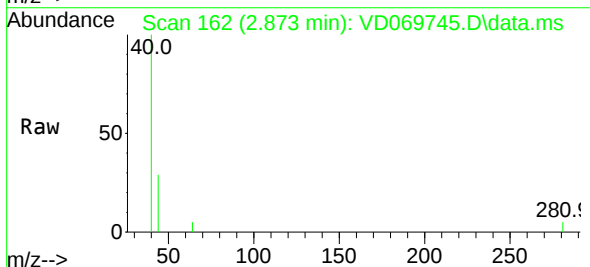
Instrument :
 MSVOA_D
 ClientSampleID :

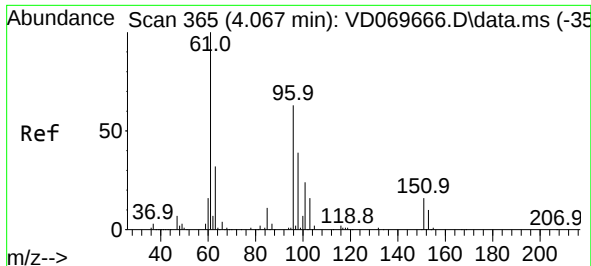
Tgt Ion: 62 Resp: 124
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.6 38.4#



#6
 Chloroethane
 Concen: 3.900 ug/l
 RT: 2.873 min Scan# 162
 Delta R.T. -0.047 min
 Lab File: VD069745.D
 Acq: 19 Jul 2021 12:03

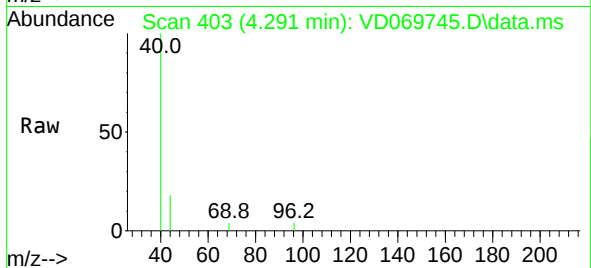
Tgt Ion: 64 Resp: 141
 Ion Ratio Lower Upper
 64 100
 66 0.0 25.4 38.2#



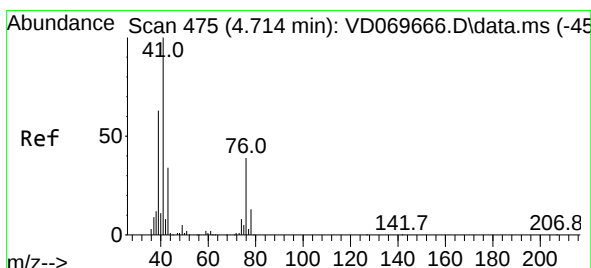
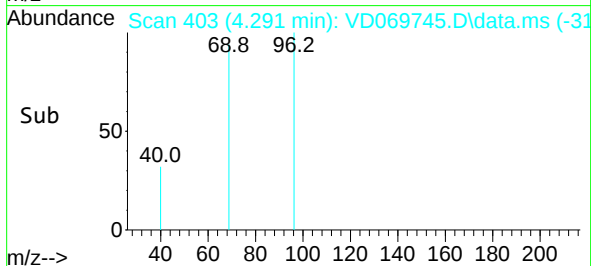
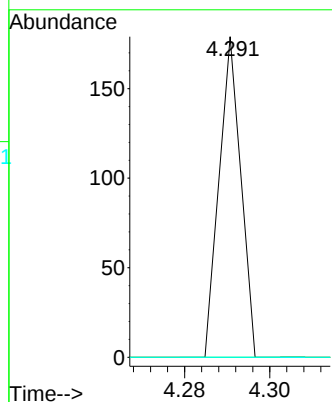


#12
1,1-Dichloroethene
Concen: 1.555 ug/l
RT: 4.291 min Scan# 403
Delta R.T. 0.224 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

Instrument :
MSVOA_D
ClientSampleId :

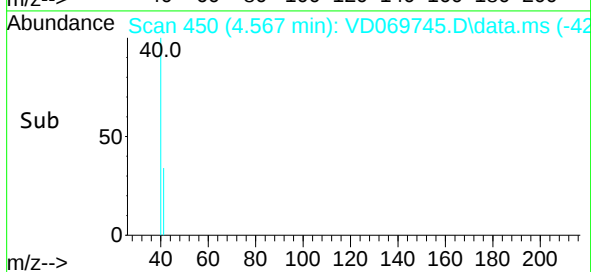
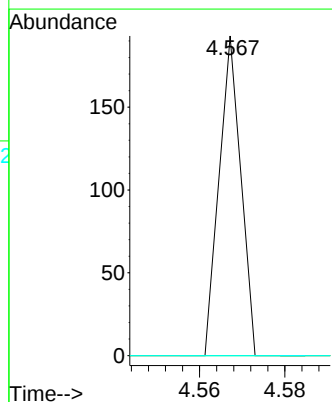
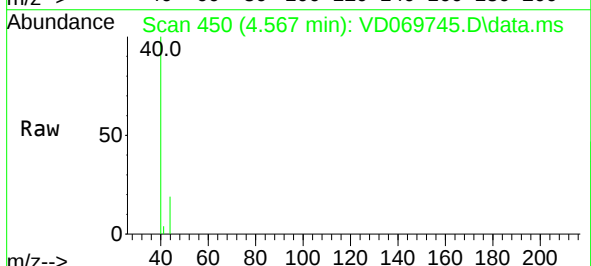


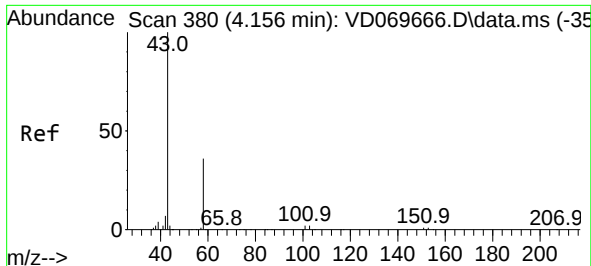
Tgt Ion: 96 Resp: 63
Ion Ratio Lower Upper
96 100
61 0.0 126.4 189.6#
98 0.0 48.9 73.3#



#14
Allyl chloride
Concen: 1.086 ug/l
RT: 4.567 min Scan# 450
Delta R.T. -0.147 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

Tgt Ion: 41 Resp: 68
Ion Ratio Lower Upper
41 100
39 0.0 49.4 74.2#
76 0.0 30.7 46.1#

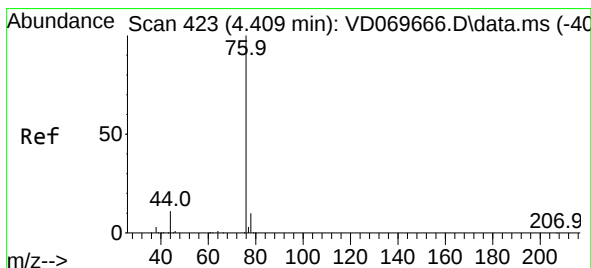
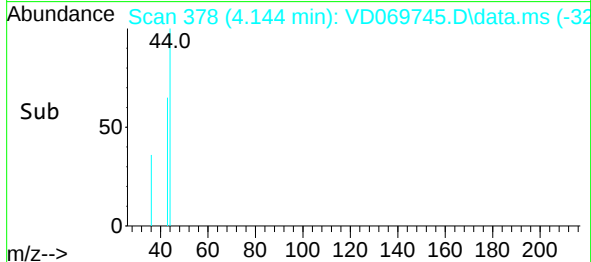
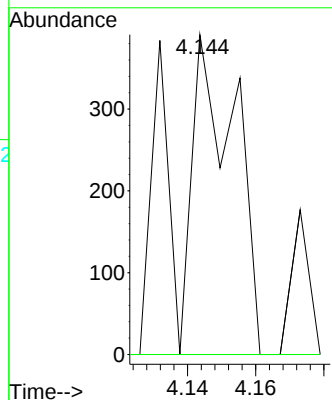
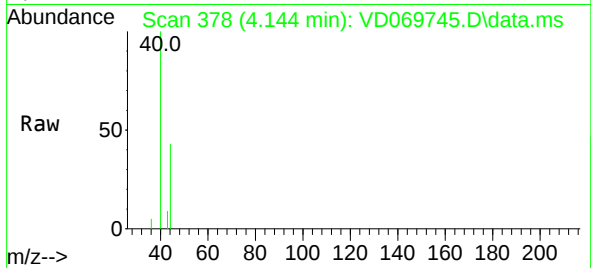




#16
Acetone
Concen: 44.729 ug/l
RT: 4.144 min Scan# 378
Delta R.T. -0.012 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

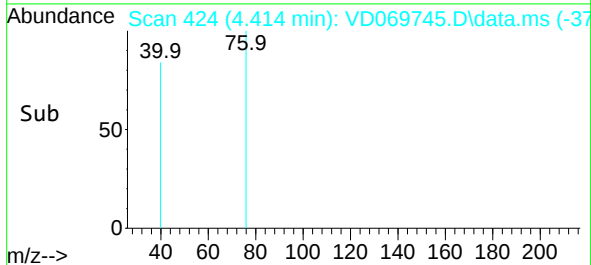
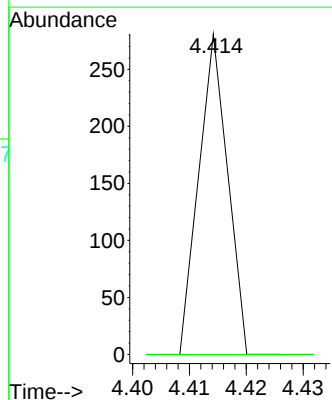
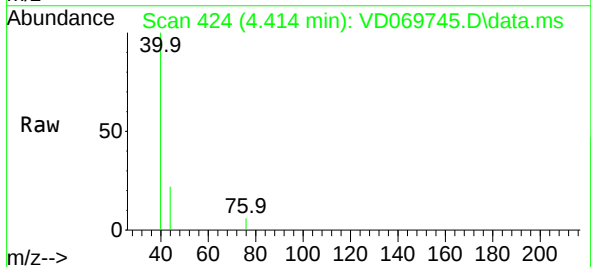
Instrument :
MSVOA_D
ClientSampled :

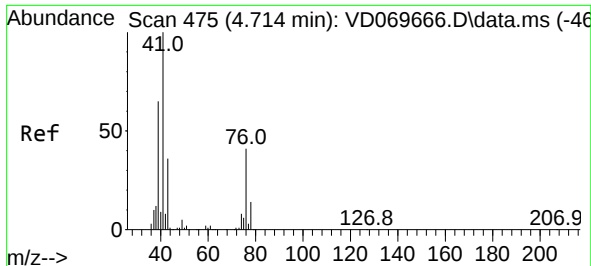
Tgt Ion: 43 Resp: 338
Ion Ratio Lower Upper
43 100
58 0.0 28.6 42.8#



#17
Carbon Disulfide
Concen: 1.122 ug/l
RT: 4.414 min Scan# 424
Delta R.T. 0.005 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

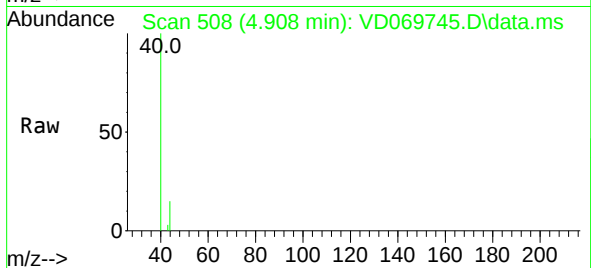
Tgt Ion: 76 Resp: 99
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



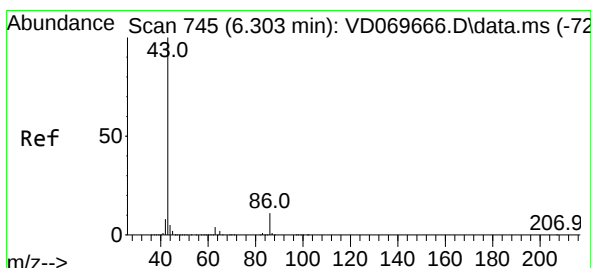
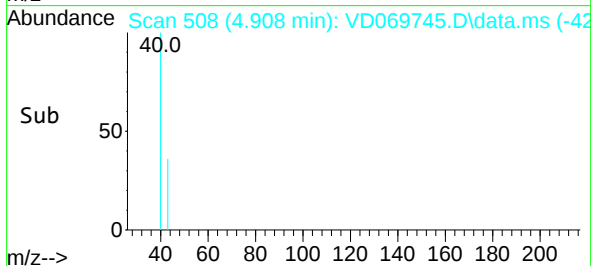
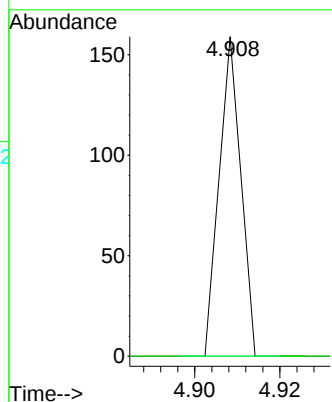


#18
Methyl Acetate
Concen: Below Cal
RT: 4.908 min Scan# 508
Delta R.T. 0.194 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

Instrument :
MSVOA_D
ClientSampleId :

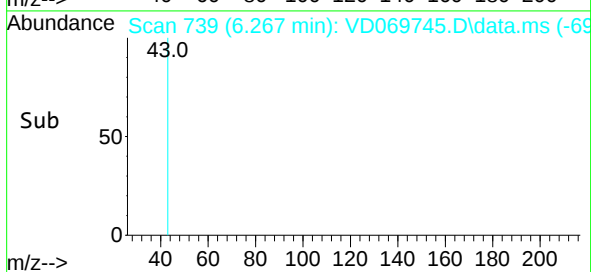
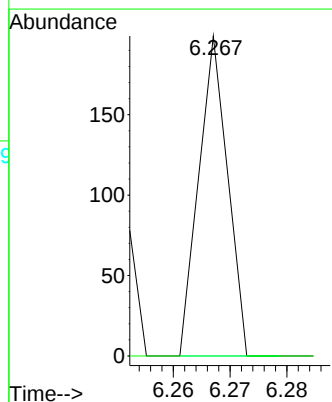
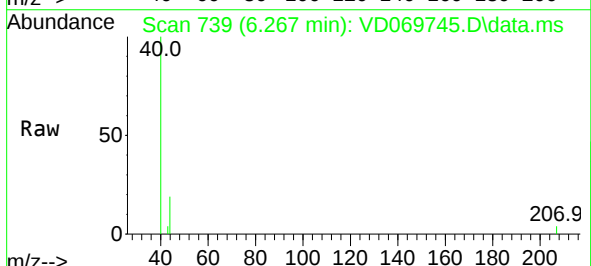


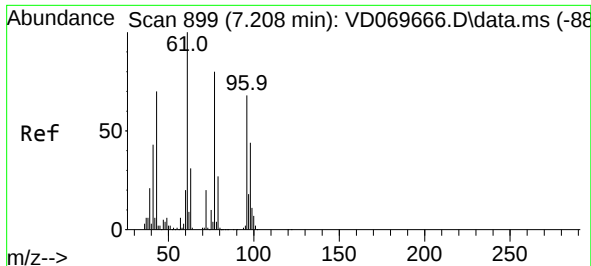
Tgt Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
74 0.0 20.6 30.8#



#23
Vinyl Acetate
Concen: 16.325 ug/l
RT: 6.267 min Scan# 739
Delta R.T. -0.036 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

Tgt Ion: 43 Resp: 70
Ion Ratio Lower Upper
43 100
86 0.0 8.6 12.8#

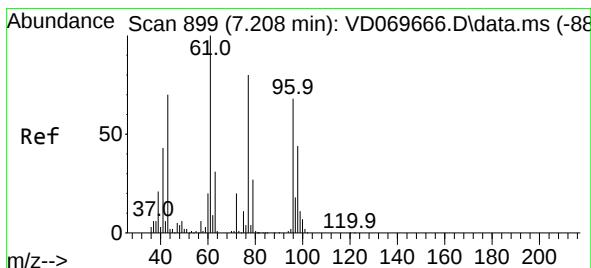
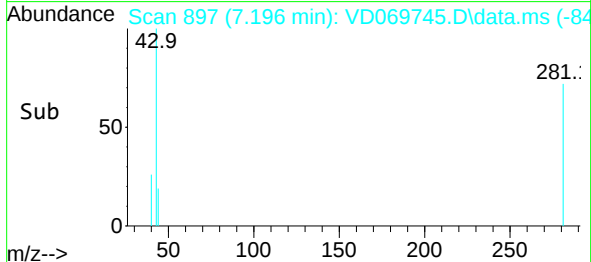
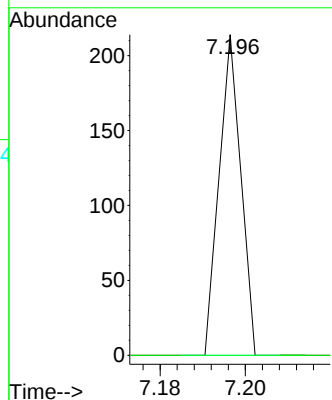
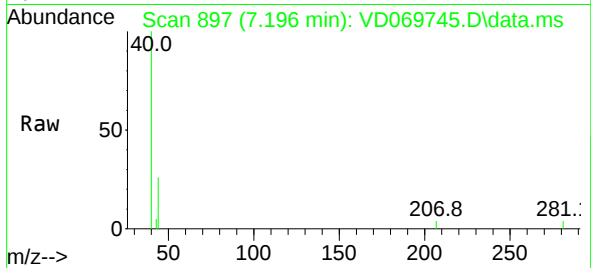




#25
2-Butanone
Concen: 6.932 ug/l
RT: 7.196 min Scan# 897
Delta R.T. -0.012 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

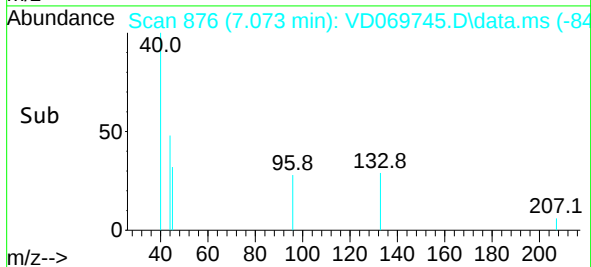
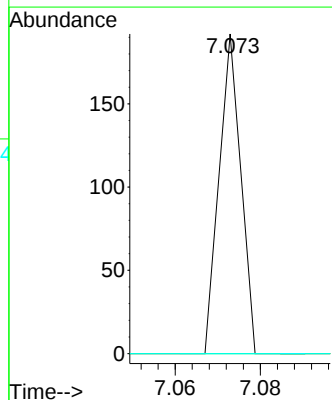
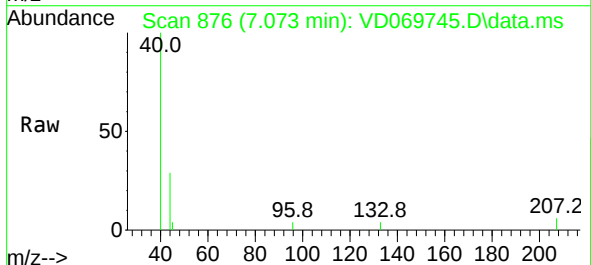
Instrument :
MSVOA_D
ClientSampled :

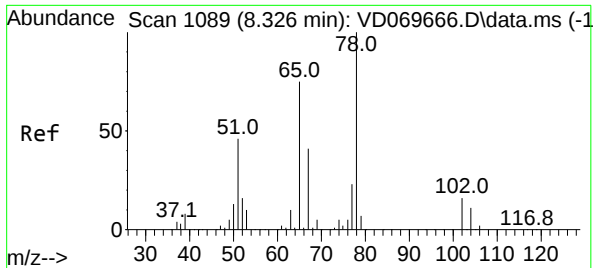
Tgt Ion: 43 Resp: 76
Ion Ratio Lower Upper
43 100
72 0.0 22.6 33.8#



#27
cis-1,2-Dichloroethene
Concen: 1.303 ug/l
RT: 7.073 min Scan# 876
Delta R.T. -0.135 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

Tgt Ion: 96 Resp: 68
Ion Ratio Lower Upper
96 100
61 0.0 0.0 295.8
98 0.0 0.0 127.2

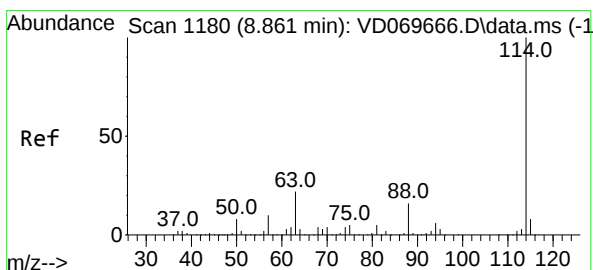
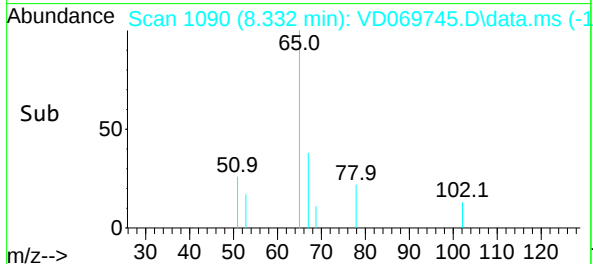
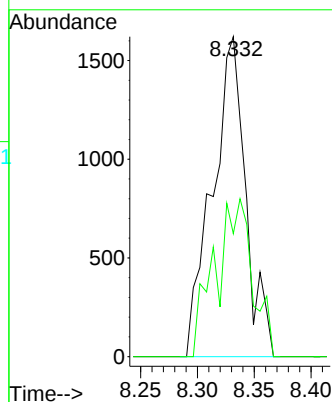
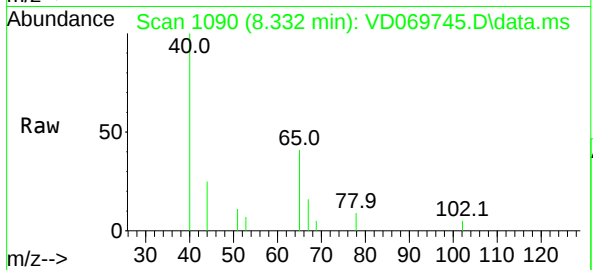




#33
1,2-Dichloroethane-d4
Concen: 71.292 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

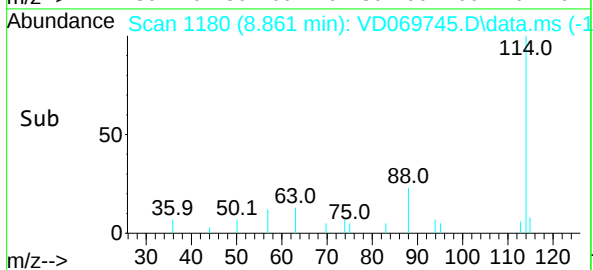
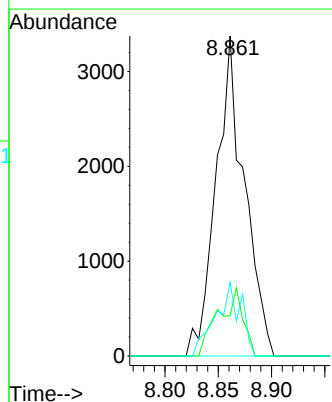
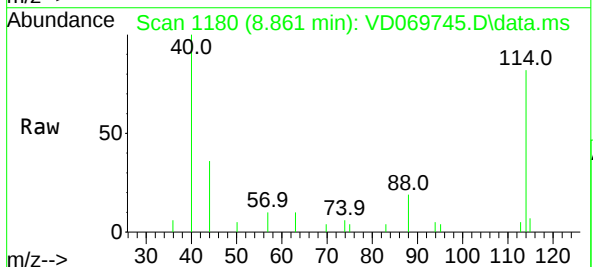
Instrument :
MSVOA_D
ClientSampled :

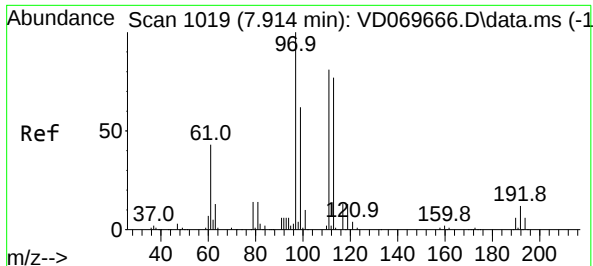
Tgt Ion: 65 Resp: 3307
Ion Ratio Lower Upper
65 100
67 55.1 0.0 107.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

Tgt Ion: 114 Resp: 6254
Ion Ratio Lower Upper
114 100
63 12.6 0.0 43.4
88 23.1 0.0 32.0





#35

Dibromofluoromethane

Concen: 52.149 ug/l

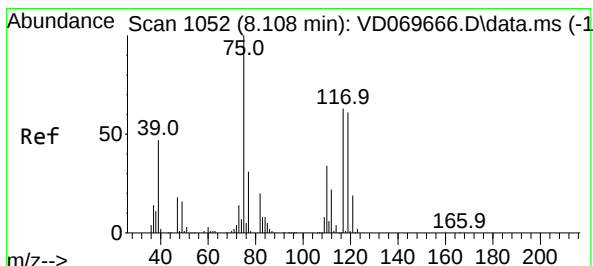
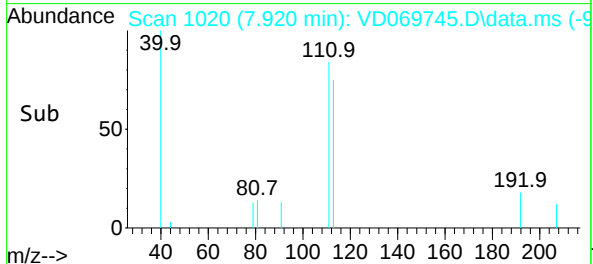
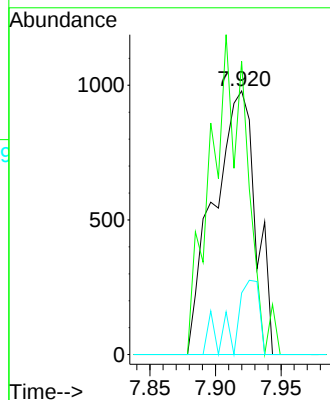
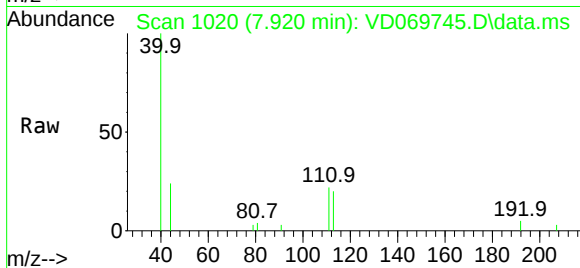
RT: 7.920 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VD069745.D

Acq: 19 Jul 2021 12:03

Tgt Ion:	113	Resp:	2188
Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.6	123.8
192	15.1	12.7	19.1



#36

1,1-Dichloropropene

Concen: 6.494 ug/l

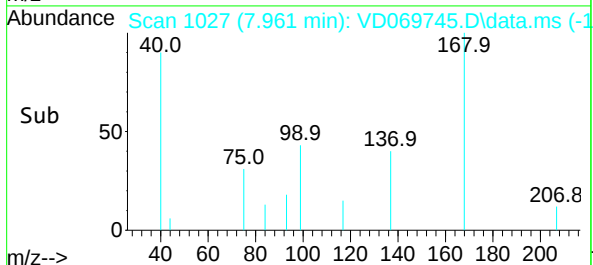
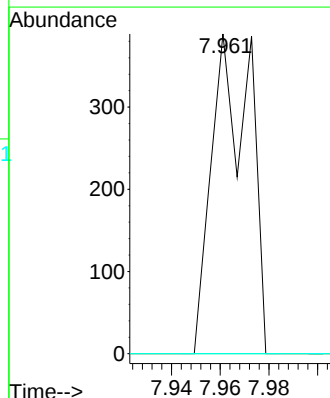
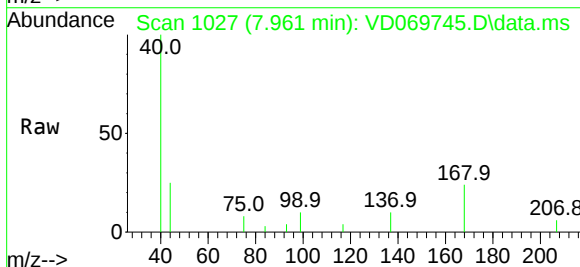
RT: 7.961 min Scan# 1027

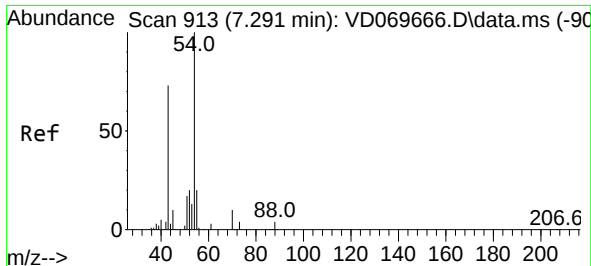
Delta R.T. -0.147 min

Lab File: VD069745.D

Acq: 19 Jul 2021 12:03

Tgt Ion:	75	Resp:	419
Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.7	50.0#
77	0.0	25.3	37.9#





#37

Ethyl Acetate

Concen: 2.868 ug/l

RT: 7.249 min Scan# 906

Delta R.T. -0.042 min

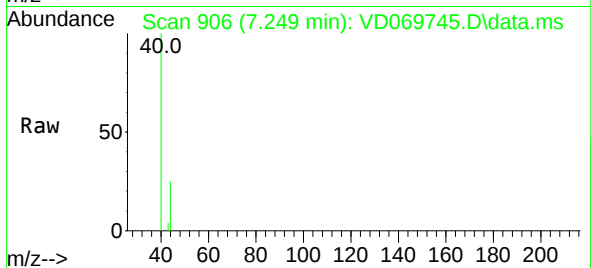
Lab File: VD069745.D

Acq: 19 Jul 2021 12:03

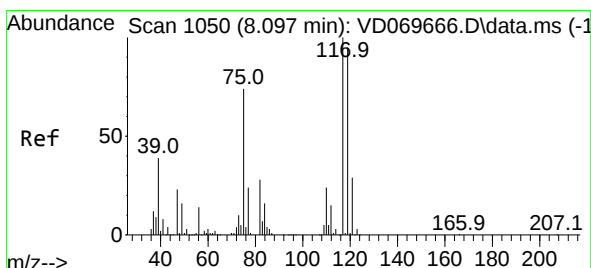
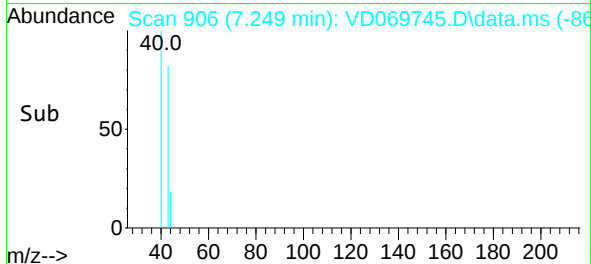
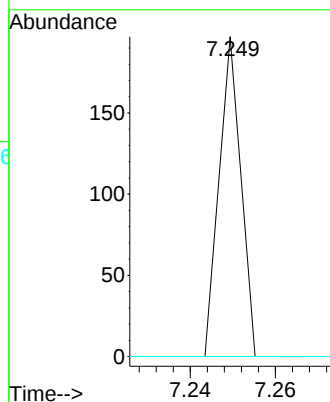
Instrument :

MSVOA_D

ClientSampleId :



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



#38

Carbon Tetrachloride

Concen: 6.330 ug/l

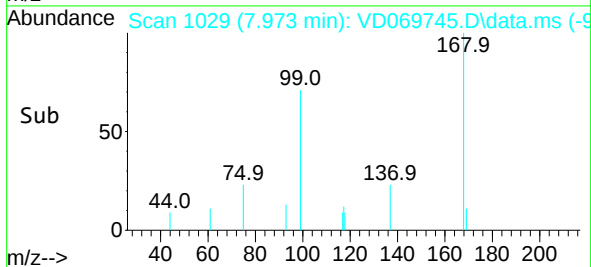
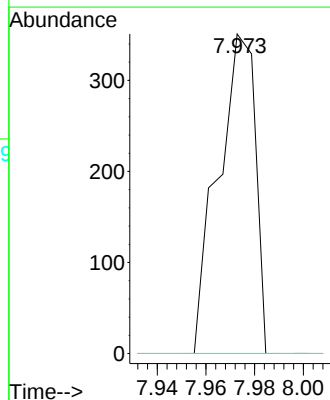
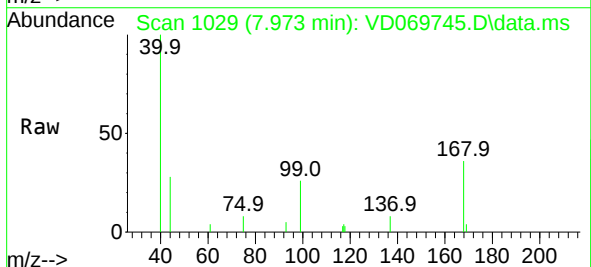
RT: 7.973 min Scan# 1029

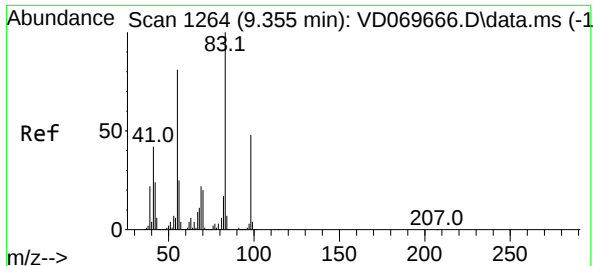
Delta R.T. -0.124 min

Lab File: VD069745.D

Acq: 19 Jul 2021 12:03

Tgt Ion:	117	Resp:	374
Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.7	113.5#
121	0.0	23.0	34.6#





#39

Methylcyclohexane

Concen: 3.704 ug/l

RT: 9.355 min Scan# 1264

Delta R.T. 0.000 min

Lab File: VD069745.D

Acq: 19 Jul 2021 12:03

Tgt Ion: 83 Resp: 140

Ion Ratio Lower Upper

83 100

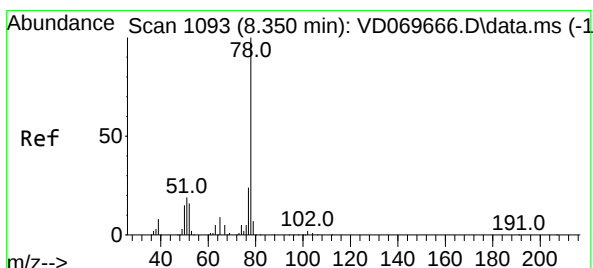
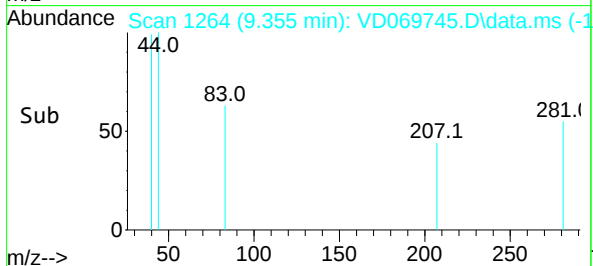
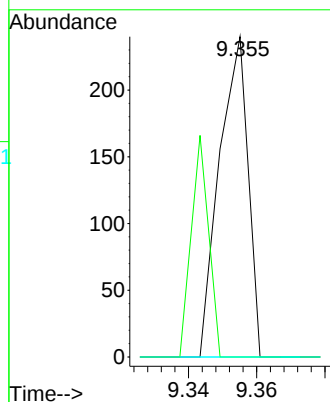
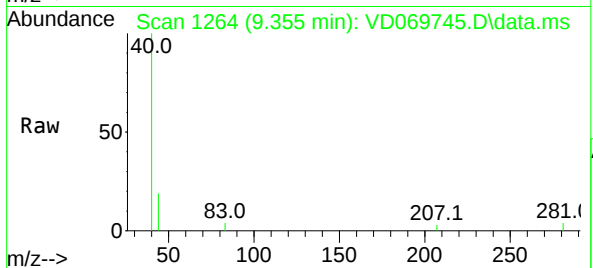
55 0.0 64.6 97.0#

98 0.0 38.4 57.6#

Instrument :

MSVOA_D

ClientSampleId :



#40

Benzene

Concen: 2.381 ug/l

RT: 8.332 min Scan# 1090

Delta R.T. -0.018 min

Lab File: VD069745.D

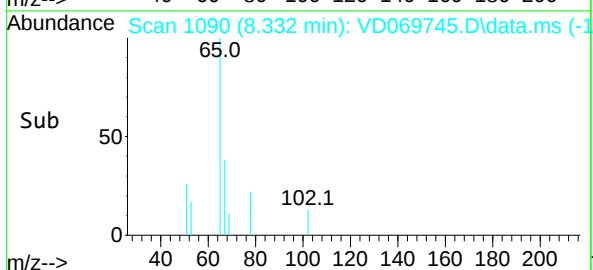
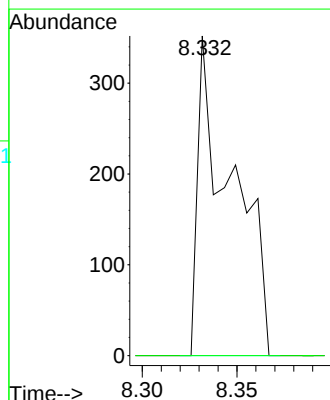
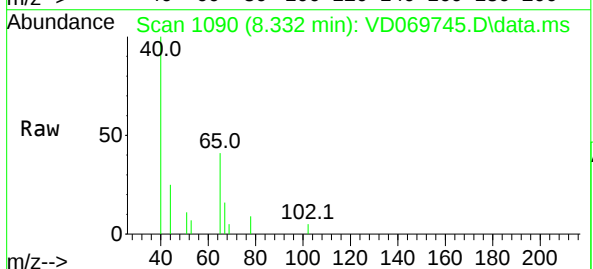
Acq: 19 Jul 2021 12:03

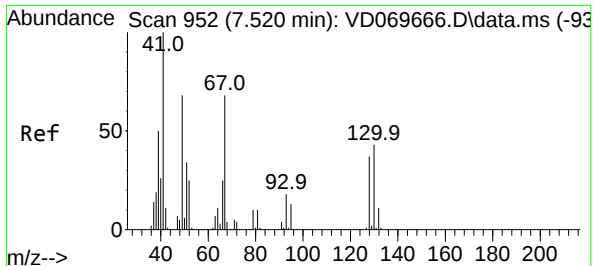
Tgt Ion: 78 Resp: 443

Ion Ratio Lower Upper

78 100

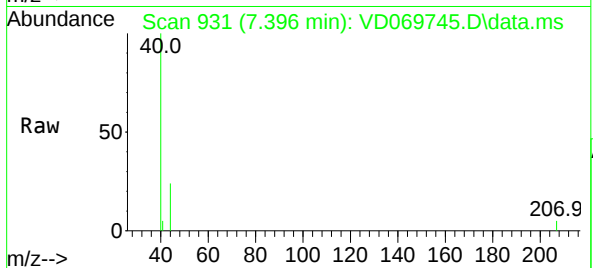
77 0.0 19.4 29.0#



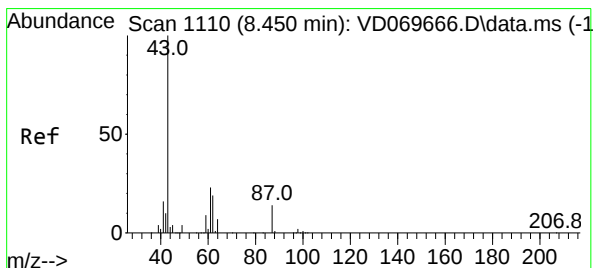
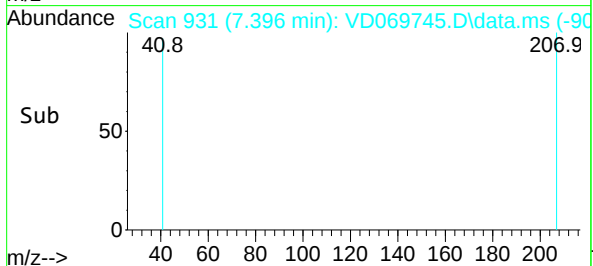
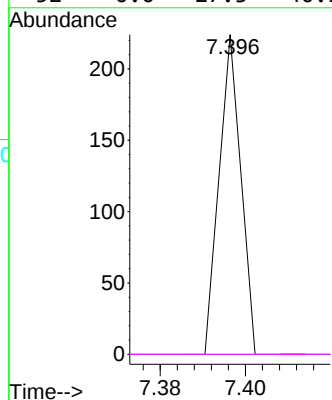


#41
Methacrylonitrile
Concen: 6.246 ug/l
RT: 7.396 min Scan# 931
Delta R.T. -0.124 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

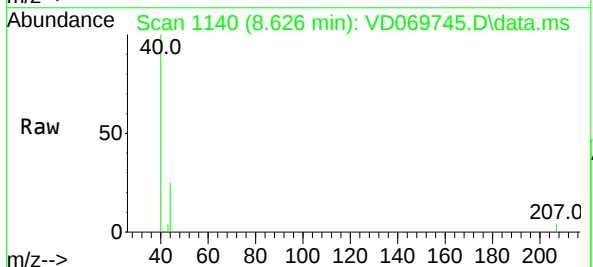
Instrument :
MSVOA_D
ClientSampleId :



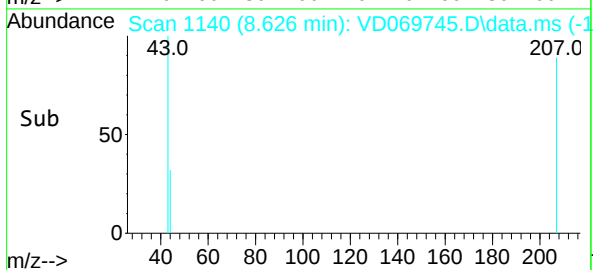
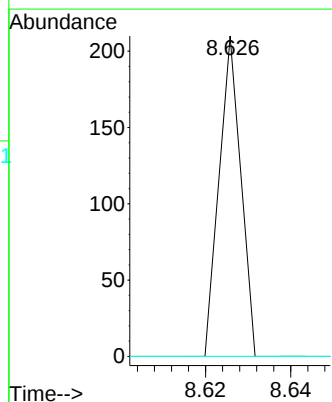
Tgt Ion:	41	Resp:	79
Ion	Ratio	Lower	Upper
41	100		
39	0.0	47.4	71.0#
67	0.0	67.0	100.6#
52	0.0	27.3	40.9#

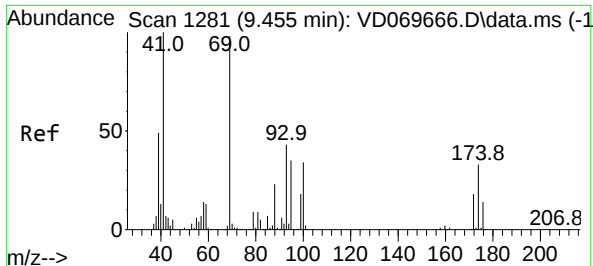


#43
Isopropyl Acetate
Concen: 1.656 ug/l
RT: 8.626 min Scan# 1140
Delta R.T. 0.176 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03



Tgt Ion:	43	Resp:	74
Ion	Ratio	Lower	Upper
43	100		
61	0.0	27.8	41.6#
87	0.0	11.0	16.6#

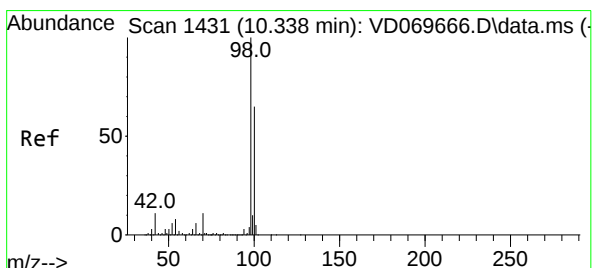
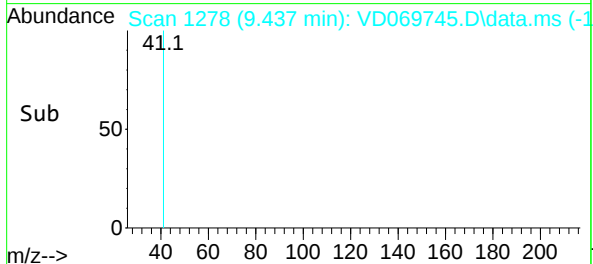
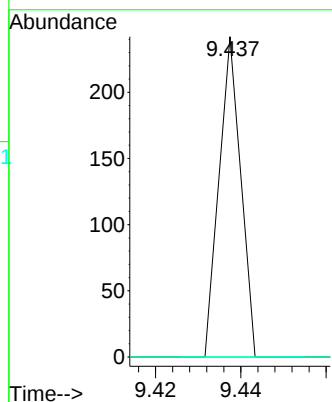
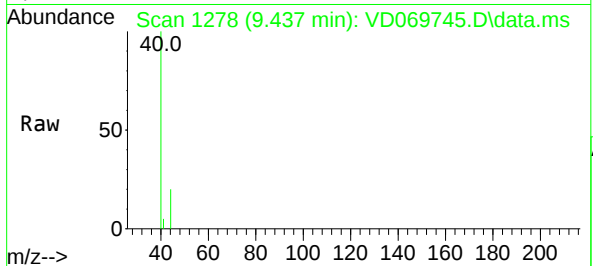




#48
Methyl methacrylate
Concen: 4.686 ug/l
RT: 9.437 min Scan# 1278
Delta R.T. -0.018 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

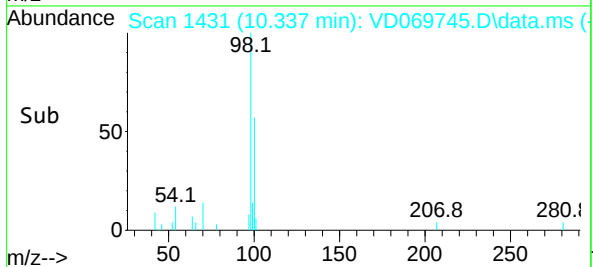
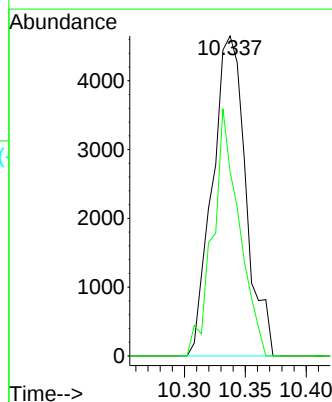
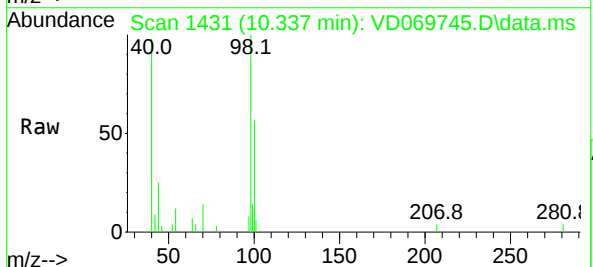
Instrument :
MSVOA_D
ClientSampled :

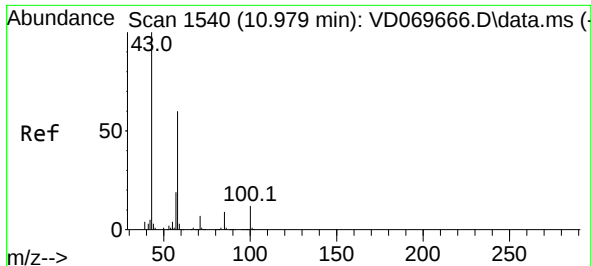
Tgt Ion: 41 Resp: 85
Ion Ratio Lower Upper
41 100
69 0.0 71.6 107.4#
39 0.0 36.7 55.1#



#50
Toluene-d8
Concen: 54.539 ug/l
RT: 10.337 min Scan# 1431
Delta R.T. -0.001 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

Tgt Ion: 98 Resp: 8890
Ion Ratio Lower Upper
98 100
100 60.6 52.2 78.2

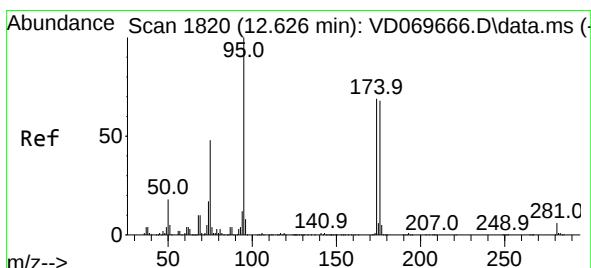
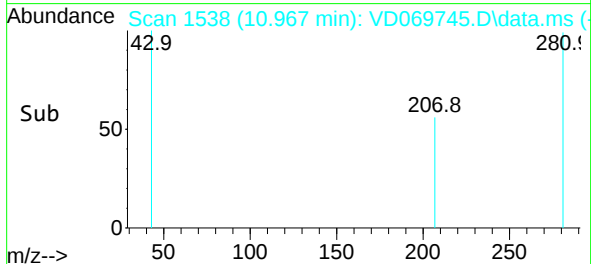
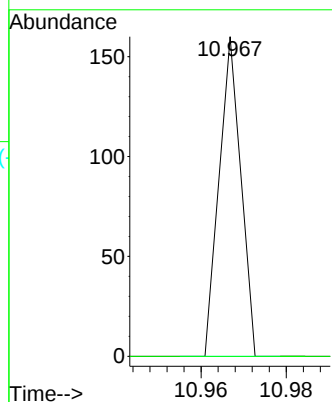
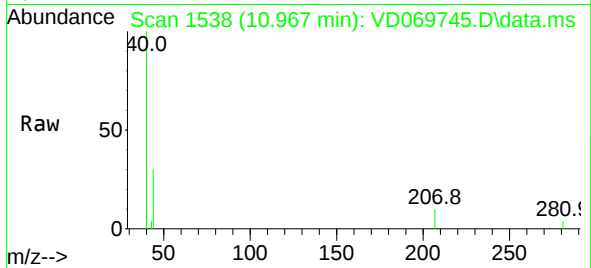




#59
2-Hexanone
Concen: 3.630 ug/l
RT: 10.967 min Scan# 1538
Delta R.T. -0.012 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

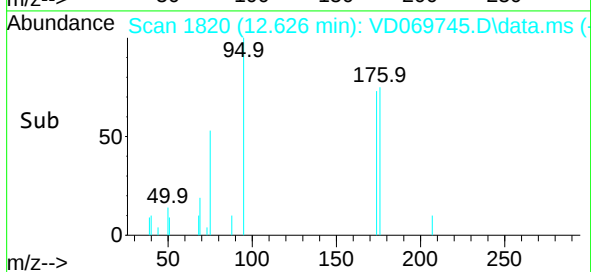
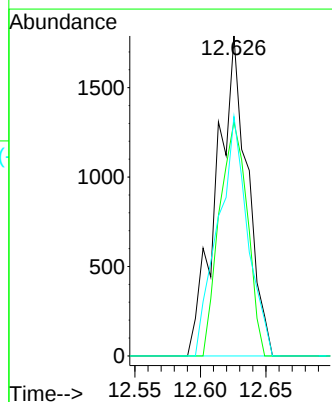
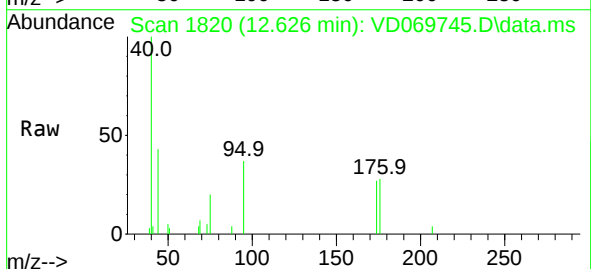
Instrument :
MSVOA_D
ClientSampled :

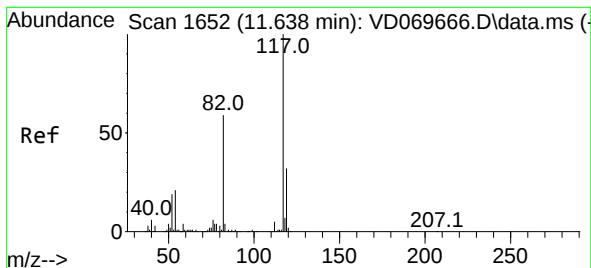
Tgt Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
58 0.0 29.1 87.4#



#62
4-Bromofluorobenzene
Concen: 53.860 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

Tgt Ion: 95 Resp: 2928
Ion Ratio Lower Upper
95 100
174 66.1 0.0 140.0
176 72.2 0.0 136.2

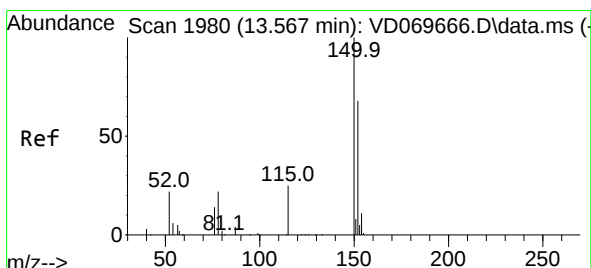
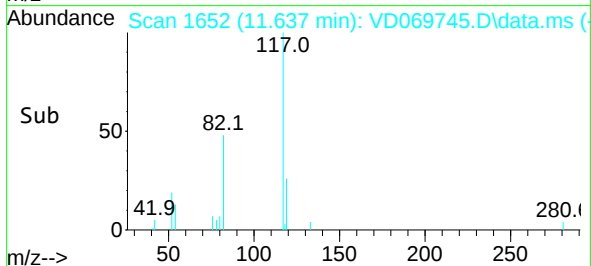
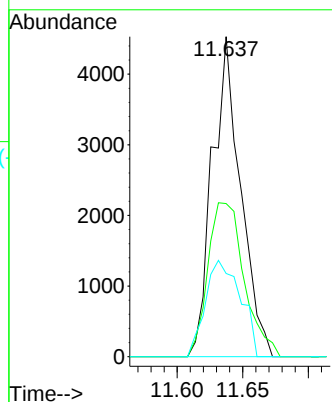
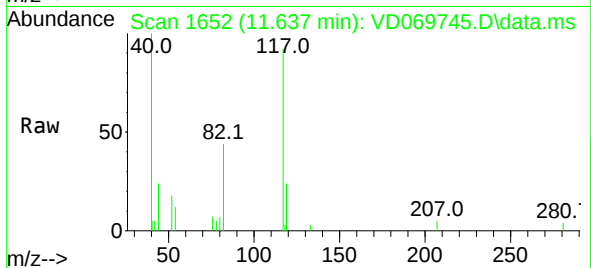




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.637 min Scan# 1652
Delta R.T. -0.001 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

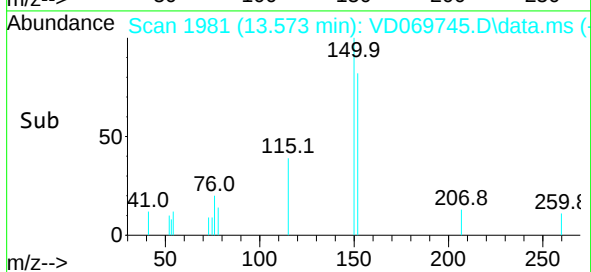
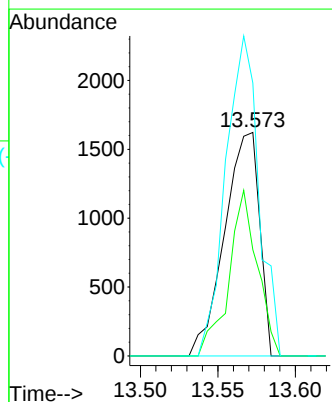
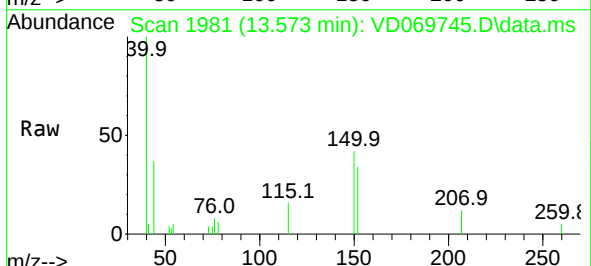
Instrument :
MSVOA_D
ClientSampleId :

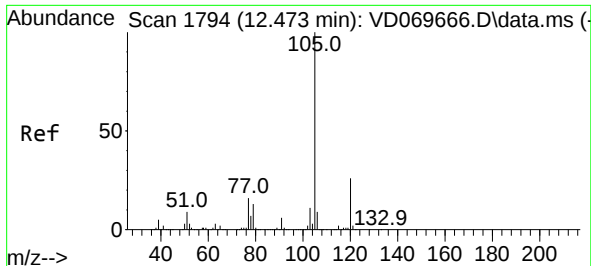
Tgt Ion:	117	Resp:	6799
Ion	Ratio	Lower	Upper
117	100		
82	47.8	47.4	71.2
119	26.0	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. 0.006 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

Tgt Ion:	152	Resp:	2541
Ion	Ratio	Lower	Upper
152	100		
115	60.2	31.7	95.1
150	135.2	0.0	350.4

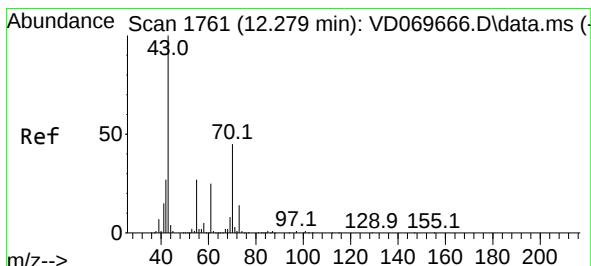
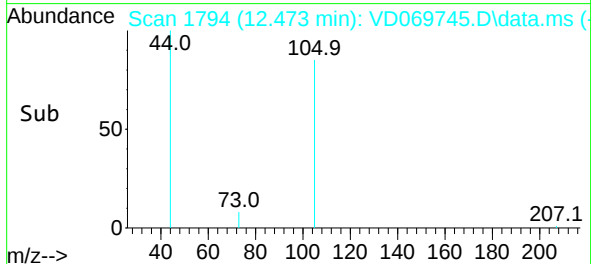
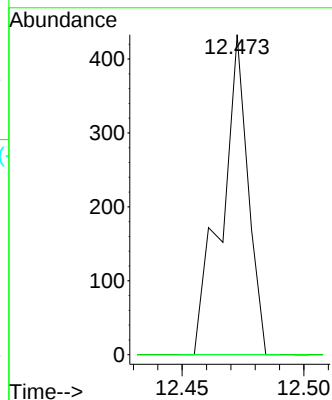
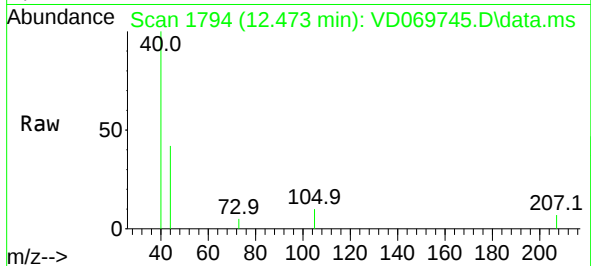




#73
Isopropylbenzene
Concen: 1.807 ug/l
RT: 12.473 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

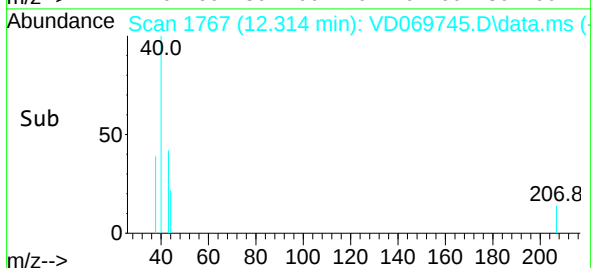
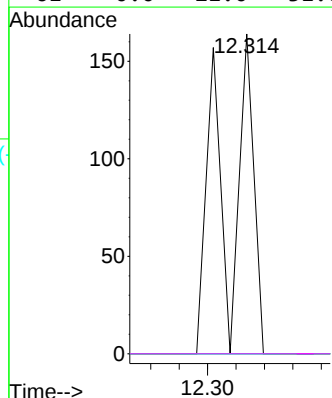
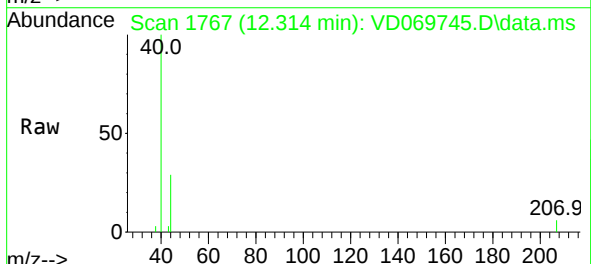
Instrument :
MSVOA_D
ClientSampled :

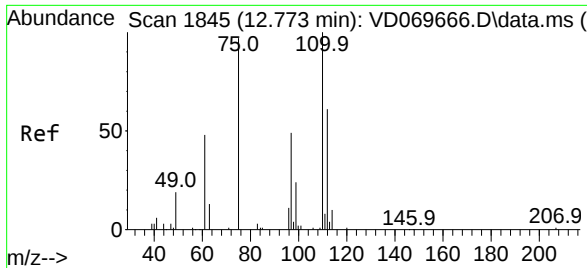
Tgt Ion:105 Resp: 327
Ion Ratio Lower Upper
105 100
120 0.0 13.0 39.0#



#74
N-ethyl acetate
Concen: 2.874 ug/l
RT: 12.314 min Scan# 1767
Delta R.T. 0.035 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

Tgt Ion: 43 Resp: 113
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#

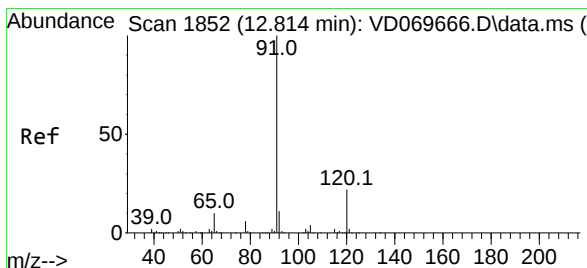
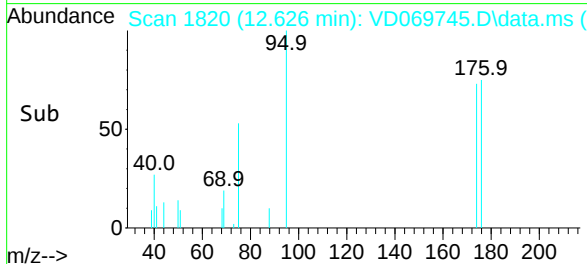
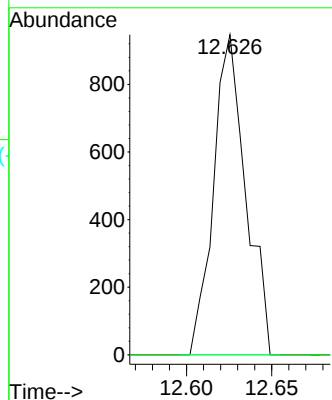
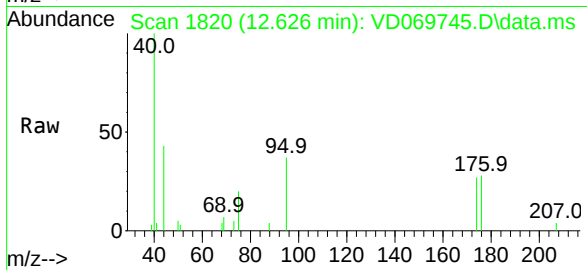




#76
1,2,3-Trichloropropane
Concen: 50.557 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

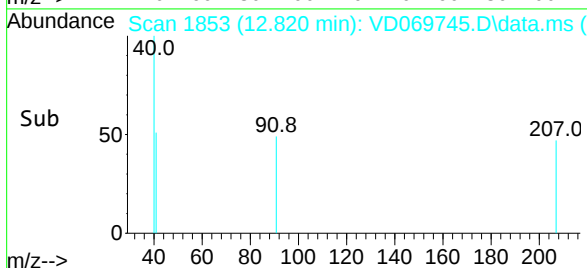
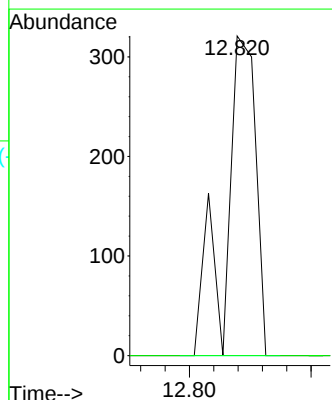
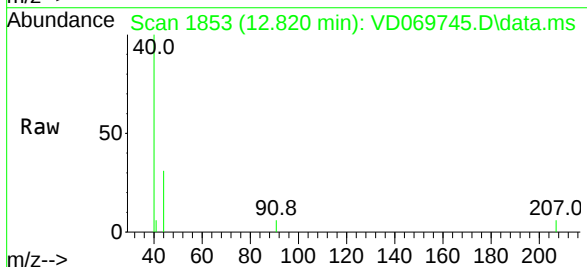
Instrument :
MSVOA_D
ClientSampleId :

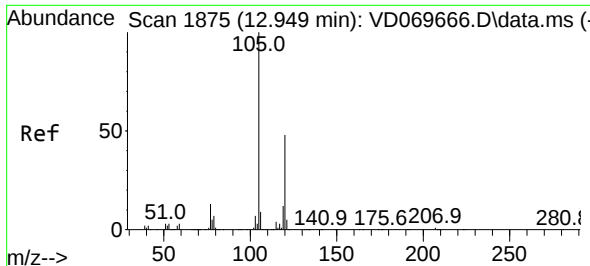
Tgt Ion: 75 Resp: 1248
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 1.207 ug/l
RT: 12.820 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

Tgt Ion: 91 Resp: 277
Ion Ratio Lower Upper
91 100
120 0.0 10.8 32.4#

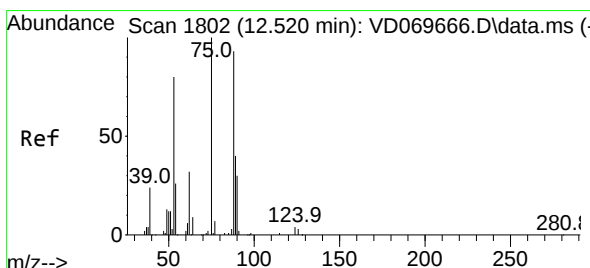
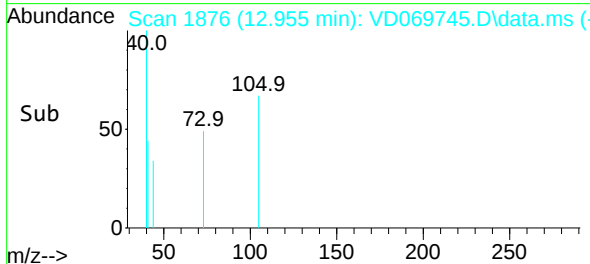
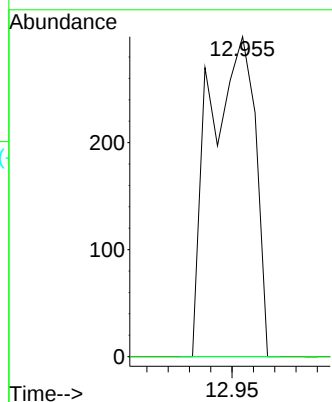
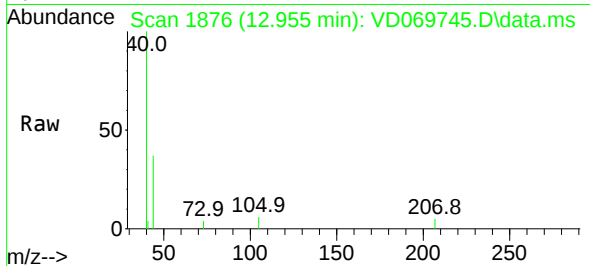




#80
1,3,5-Trimethylbenzene
Concen: 2.880 ug/l
RT: 12.955 min Scan# 1876
Delta R.T. 0.006 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

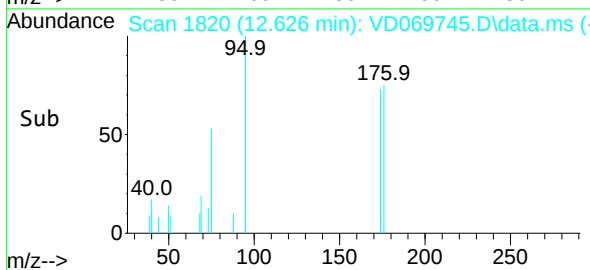
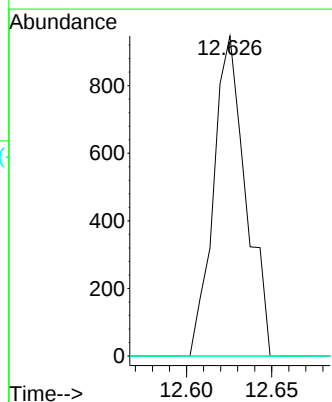
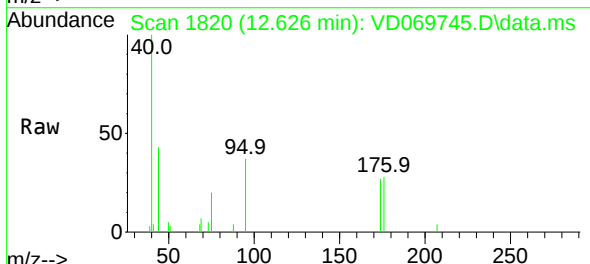
Instrument :
MSVOA_D
ClientSampled :

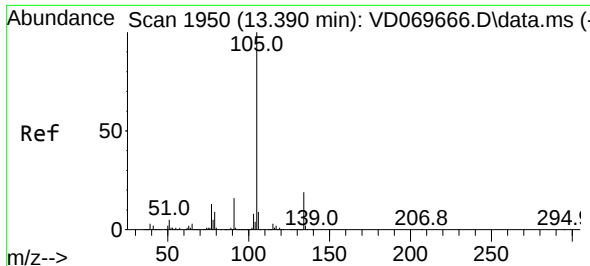
Tgt Ion:105 Resp: 442
Ion Ratio Lower Upper
105 100
120 0.0 24.1 72.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 135.869 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD069745.D
Acq: 19 Jul 2021 12:03

Tgt Ion: 75 Resp: 1248
Ion Ratio Lower Upper
75 100
53 0.0 70.6 106.0#
89 0.0 35.1 52.7#

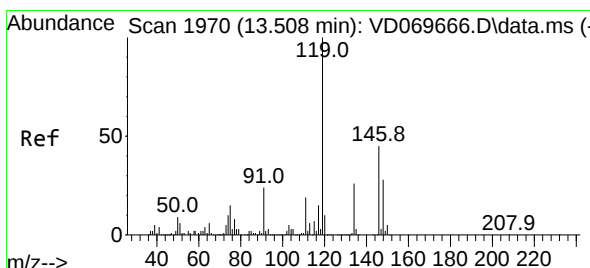
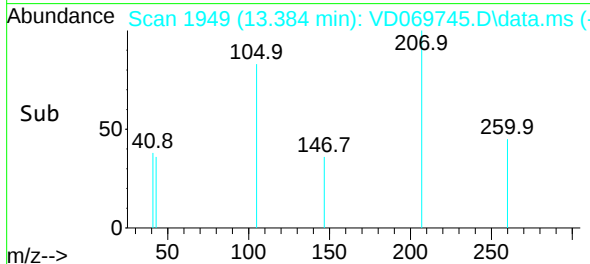
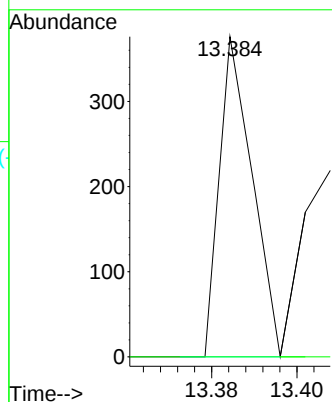
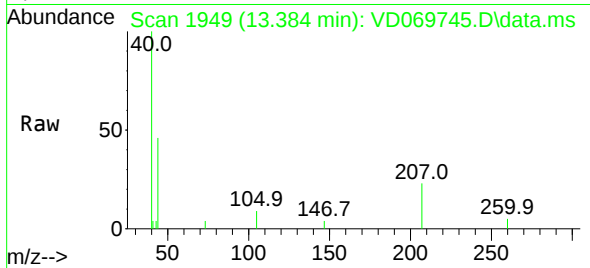




#85
 sec-Butylbenzene
 Concen: 1.022 ug/l
 RT: 13.384 min Scan# 1949
 Delta R.T. -0.006 min
 Lab File: VD069745.D
 Acq: 19 Jul 2021 12:03

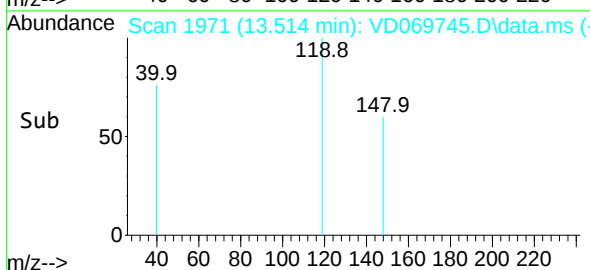
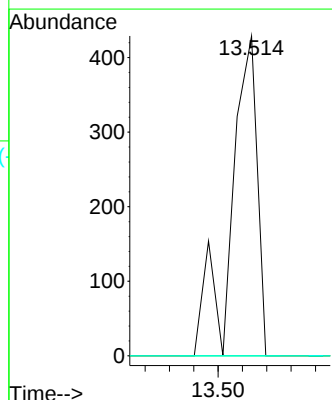
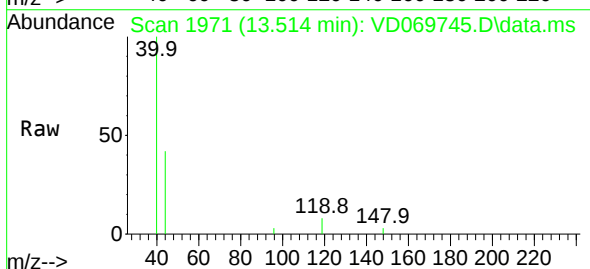
Instrument :
 MSVOA_D
 ClientSampleId :

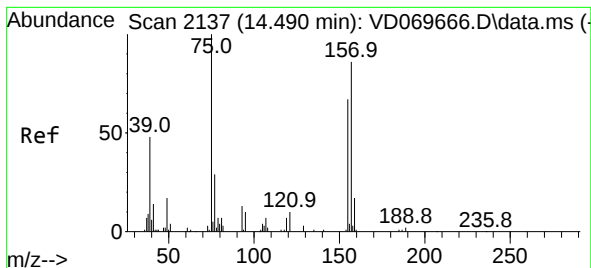
Tgt Ion:105 Resp: 201
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.4 28.3#



#86
 p-Isopropyltoluene
 Concen: 1.992 ug/l
 RT: 13.514 min Scan# 1971
 Delta R.T. 0.006 min
 Lab File: VD069745.D
 Acq: 19 Jul 2021 12:03

Tgt Ion:119 Resp: 319
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.8 38.3#
 91 0.0 12.0 36.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 10.246 ug/l

RT: 14.761 min Scan# 2183

Delta R.T. 0.271 min

Lab File: VD069745.D

Acq: 19 Jul 2021 12:03

Tgt Ion: 75 Resp: 55

Ion Ratio Lower Upper

75 100

155 0.0 35.9 107.7#

157 0.0 45.6 136.9#

