

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD062121\
 Data File : VD069502.D
 Acq On : 21 Jun 2021 16:00
 Operator : VA/SY
 Sample : M2759-01RE
 Misc : 5.40G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 22 05:08:14 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D062121S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 22 04:33:24 2021
 Response via : Initial Calibration

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

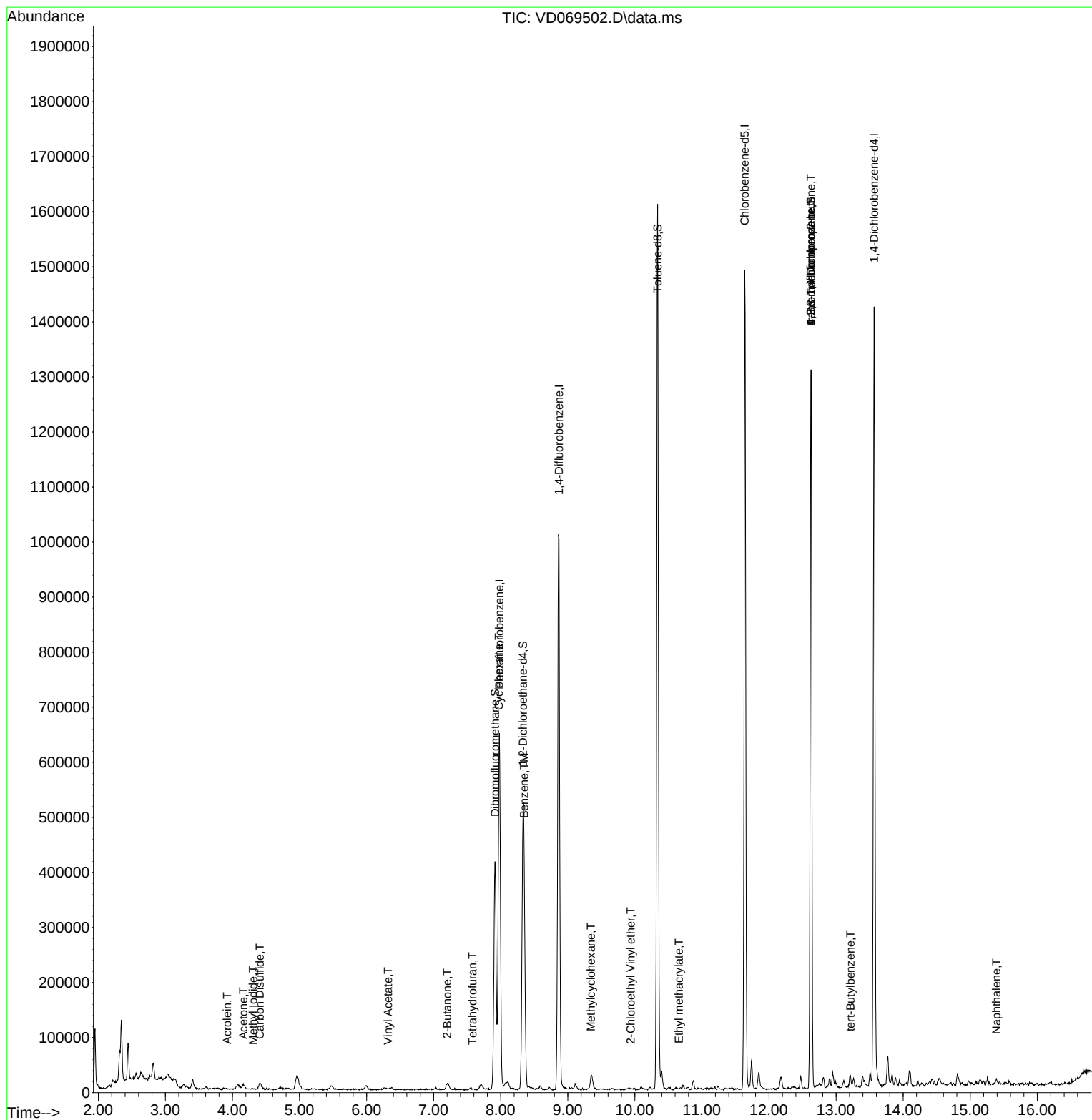
Internal Standards						
1) Pentafluorobenzene	7.979	168	440547	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	846021	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	833023	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	352599	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	309519	56.365	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	112.720%
35) Dibromofluoromethane	7.914	113	296894	51.914	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.820%
50) Toluene-d8	10.338	98	1080217	50.357	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	100.720%
62) 4-Bromofluorobenzene	12.626	95	371455	52.672	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	105.340%
Target Compounds						
					Qvalue	
5) Bromomethane	2.779	94	3601	Below Cal	#	75
10) Methyl Iodide	4.309	142	2473	4.434	ug/l #	70
11) Tert butyl alcohol	5.226	59	830	Below Cal	#	83
13) Acrolein	3.921	56	344	1.125	ug/l #	70
16) Acetone	4.162	43	17535	18.972	ug/l	98
17) Carbon Disulfide	4.409	76	20698	1.445	ug/l	98
18) Methyl Acetate	4.732	43	1190	Below Cal	#	71
20) Methylene Chloride	4.962	84	20554	Below Cal	#	89
23) Vinyl Acetate	6.320	43	1989	19.246	ug/l #	70
25) 2-Butanone	7.203	43	1882	1.602	ug/l	96
29) Tetrahydrofuran	7.579	42	1296	2.013	ug/l #	46
31) Cyclohexane	7.973	56	18068	2.444	ug/l #	46
39) Methylcyclohexane	9.344	83	9611	1.173	ug/l	92
40) Benzene	8.350	78	264822	11.063	ug/l	100
56) Ethyl methacrylate	10.656	69	526	2.675	ug/l #	8
58) 2-Chloroethyl Vinyl ether	9.938	63	553	10.790	ug/l #	47
76) 1,2,3-Trichloropropane	12.626	75	194492	56.192	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	194492	140.303	ug/l #	13
83) tert-Butylbenzene	13.214	119	6508	2.334	ug/l	81
95) Naphthalene	15.391	128	8766	4.099	ug/l	96

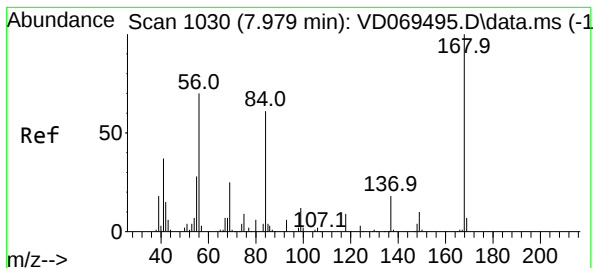
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. 0.000 min

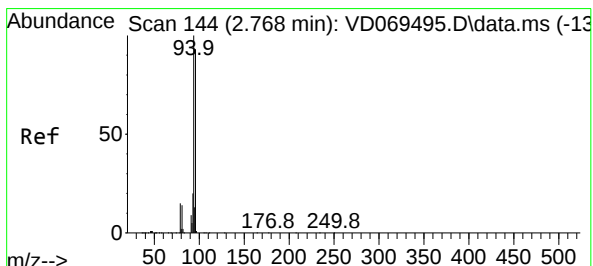
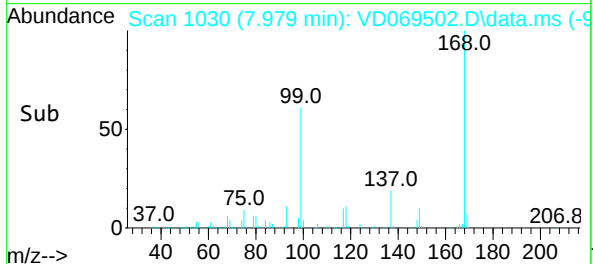
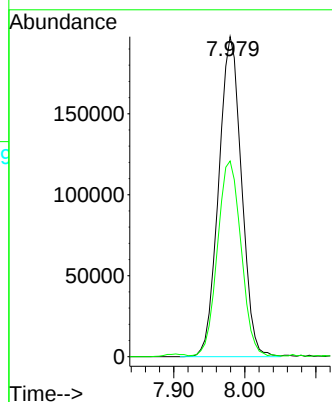
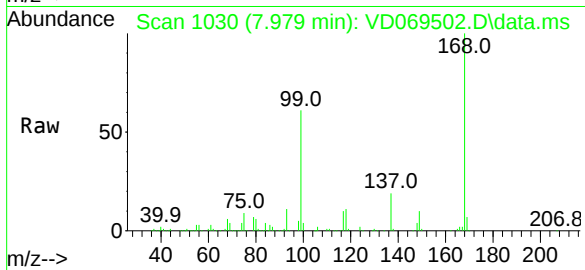
Lab File: VD069502.D

Acq: 21 Jun 2021 16:00

Tgt Ion:168 Resp: 440547

Ion Ratio Lower Upper

Ion	Ratio	Lower	Upper
168	100		
99	60.9	49.3	73.9



#5

Bromomethane

Concen: Below Cal

RT: 2.779 min Scan# 146

Delta R.T. 0.011 min

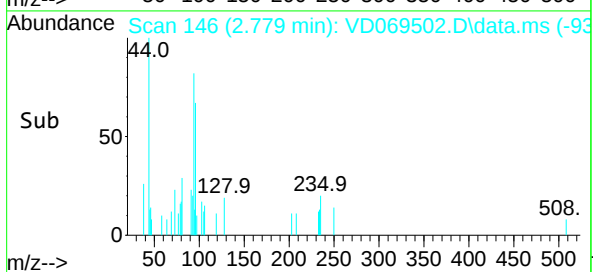
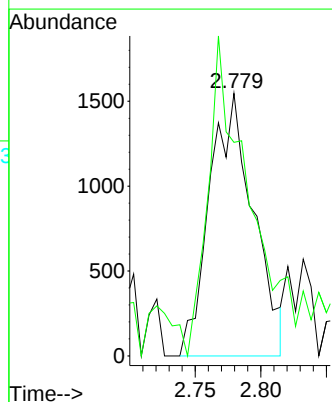
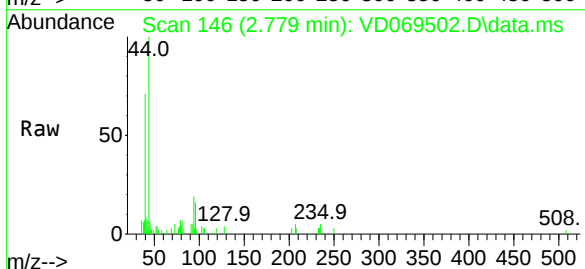
Lab File: VD069502.D

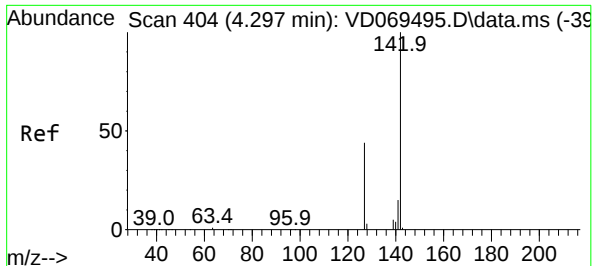
Acq: 21 Jun 2021 16:00

Tgt Ion: 94 Resp: 3601

Ion Ratio Lower Upper

Ion	Ratio	Lower	Upper
94	100		
96	69.5	74.6	111.8#

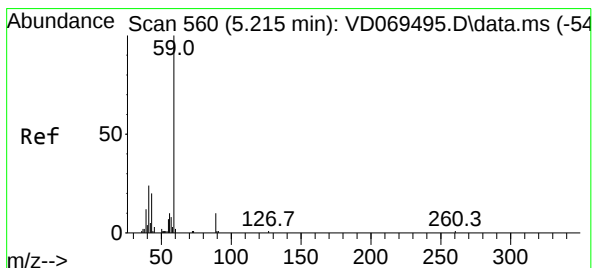
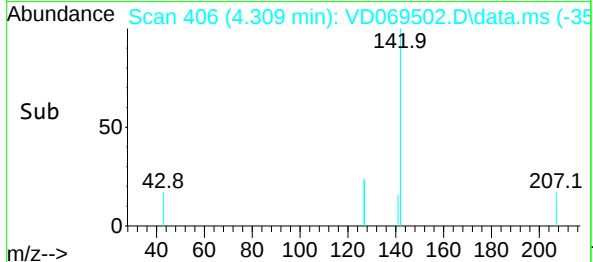
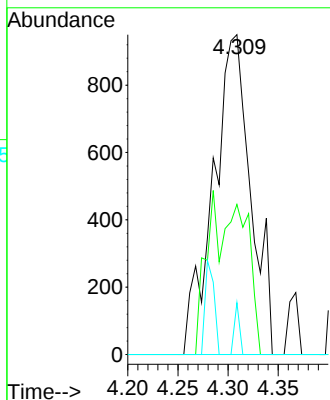
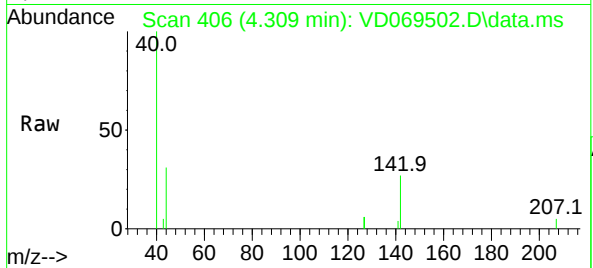




#10
Methyl Iodide
Concen: 4.434 ug/l
RT: 4.309 min Scan# 406
Delta R.T. 0.012 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

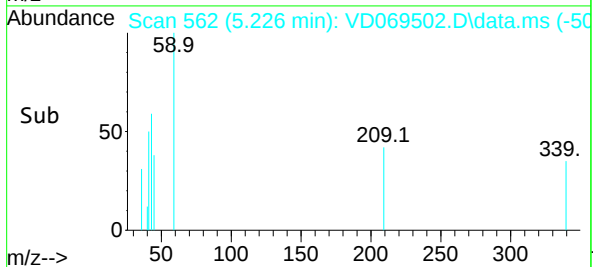
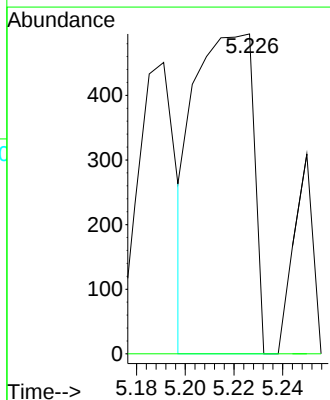
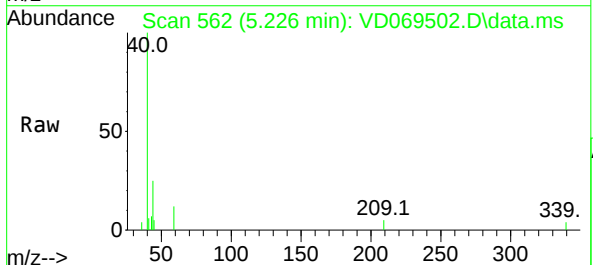
Instrument :
MSVOA_D
ClientSampleId :

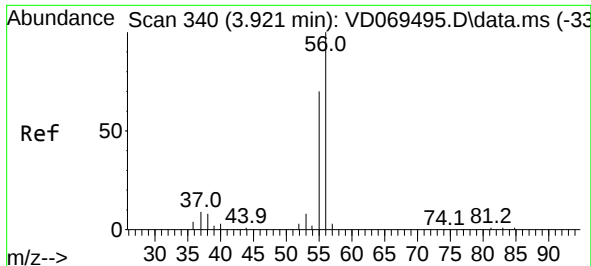
Tgt Ion:142 Resp: 2473
Ion Ratio Lower Upper
142 100
127 25.9 36.5 54.7#
141 2.2 12.0 18.0#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.226 min Scan# 562
Delta R.T. 0.011 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

Tgt Ion: 59 Resp: 830
Ion Ratio Lower Upper
59 100
57 0.0 4.6 7.0#

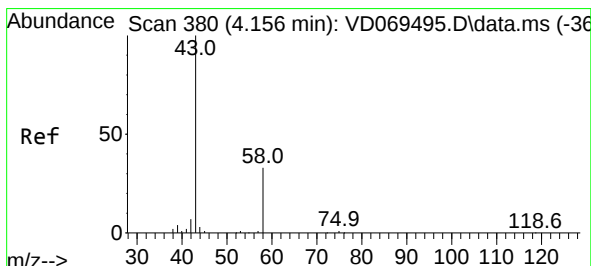
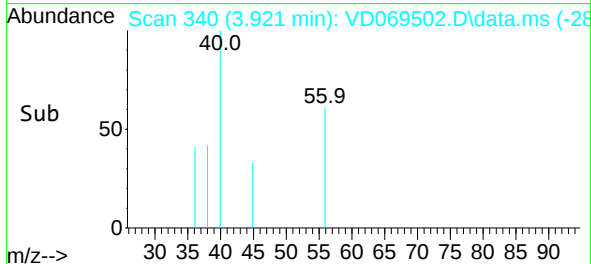
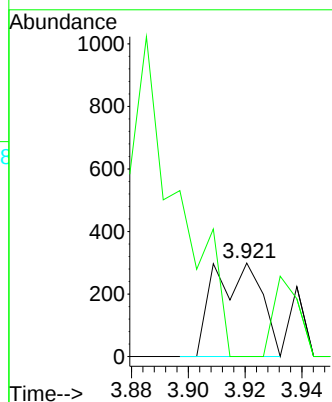
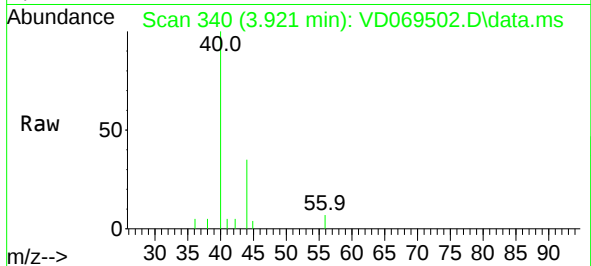




#13
Acrolein
Concen: 1.125 ug/l
RT: 3.921 min Scan# 340
Delta R.T. 0.000 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

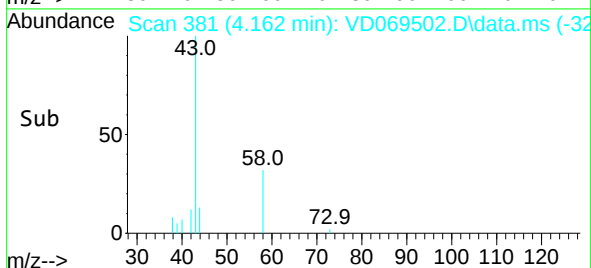
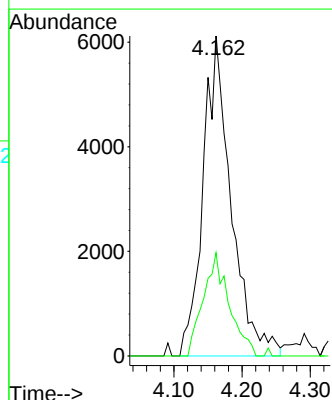
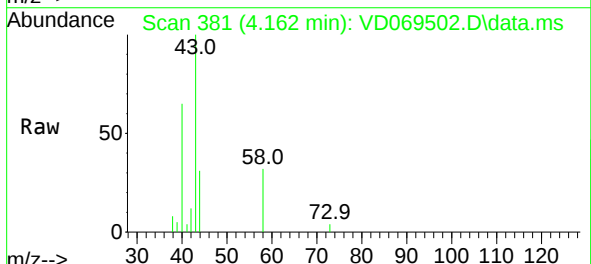
Instrument :
MSVOA_D
ClientSampled :

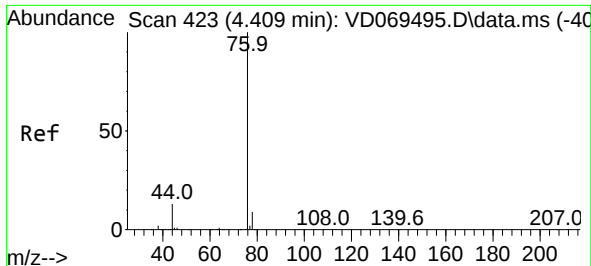
Tgt Ion: 56 Resp: 344
Ion Ratio Lower Upper
56 100
55 45.3 56.0 84.0#



#16
Acetone
Concen: 18.972 ug/l
RT: 4.162 min Scan# 381
Delta R.T. 0.006 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

Tgt Ion: 43 Resp: 17535
Ion Ratio Lower Upper
43 100
58 32.2 26.8 40.2

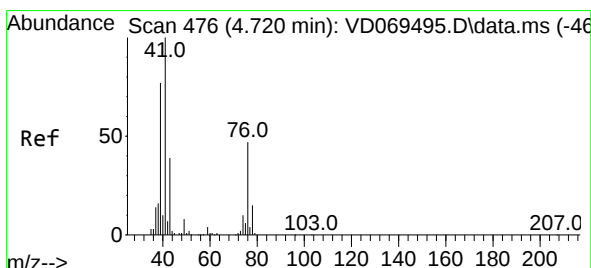
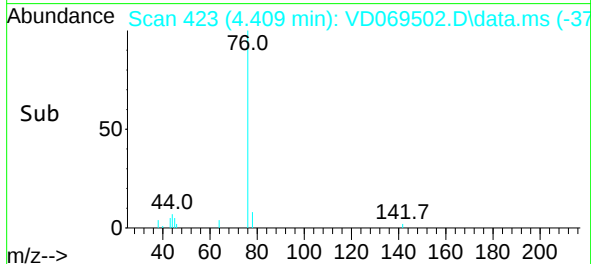
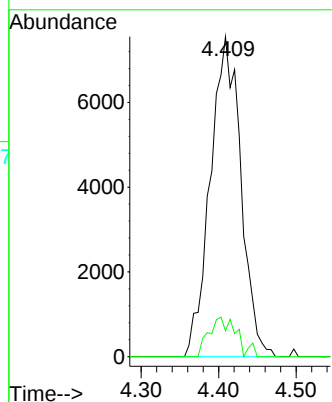
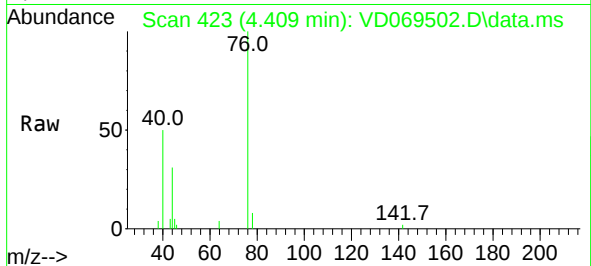




#17
Carbon Disulfide
Concen: 1.445 ug/l
RT: 4.409 min Scan# 423
Delta R.T. 0.000 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

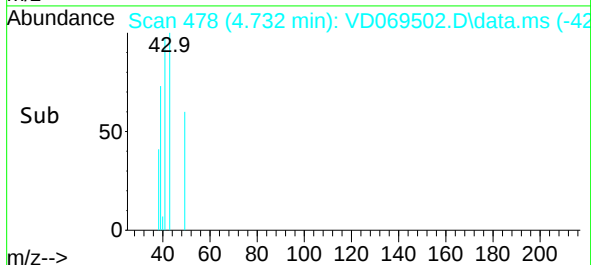
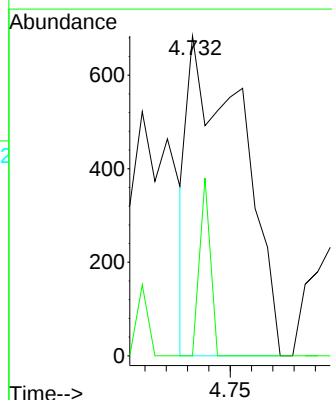
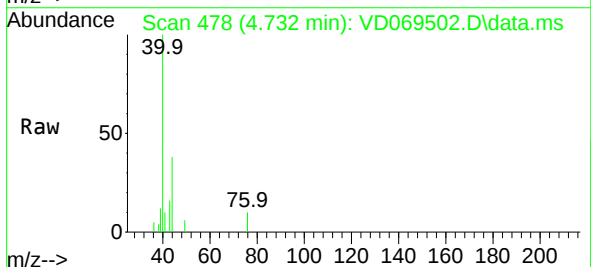
Instrument :
MSVOA_D
ClientSampled :

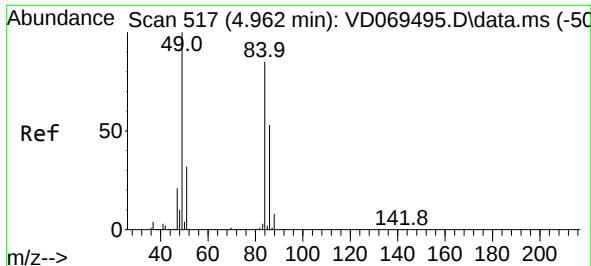
Tgt Ion: 76 Resp: 20698
Ion Ratio Lower Upper
76 100
78 8.1 7.0 10.4



#18
Methyl Acetate
Concen: Below Cal
RT: 4.732 min Scan# 478
Delta R.T. 0.012 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

Tgt Ion: 43 Resp: 1190
Ion Ratio Lower Upper
43 100
74 11.3 21.0 31.4#

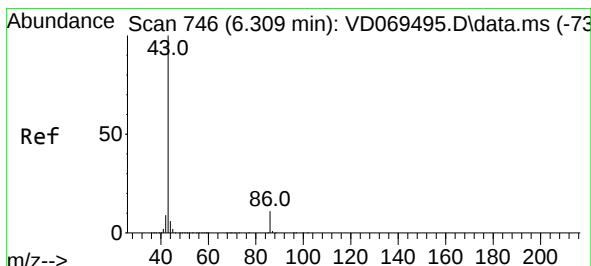
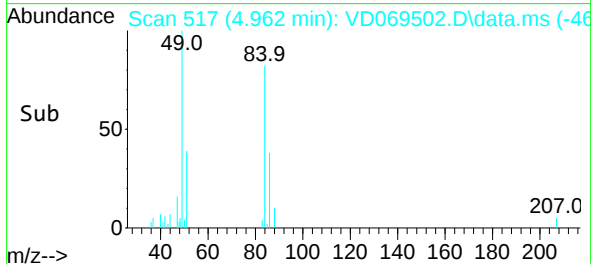
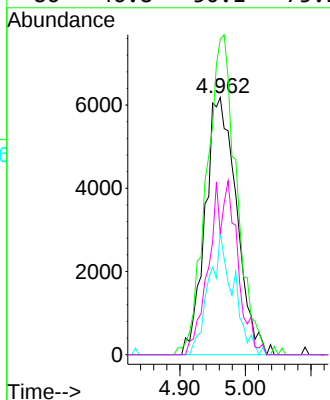
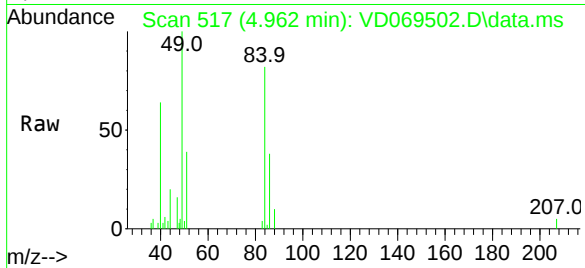




#20
Methylene Chloride
Concen: Below Cal
RT: 4.962 min Scan# 517
Delta R.T. -0.000 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

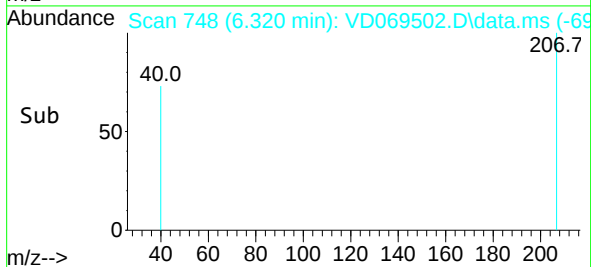
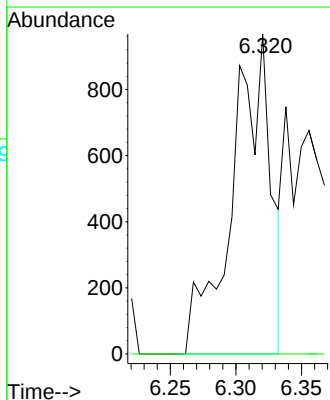
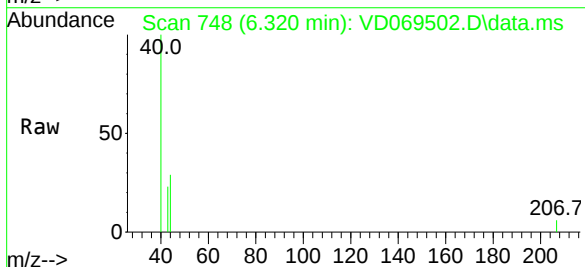
Instrument :
MSVOA_D
ClientSampled :

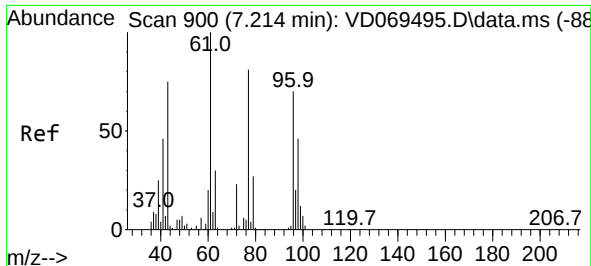
Tgt Ion:	84	Resp:	20554
Ion	Ratio	Lower	Upper
84	100		
49	122.6	94.0	141.0
51	47.4	29.7	44.5#
86	46.8	50.1	75.1#



#23
Vinyl Acetate
Concen: 19.246 ug/l
RT: 6.320 min Scan# 748
Delta R.T. 0.011 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

Tgt Ion:	43	Resp:	1989
Ion	Ratio	Lower	Upper
43	100		
86	0.0	9.1	13.7#

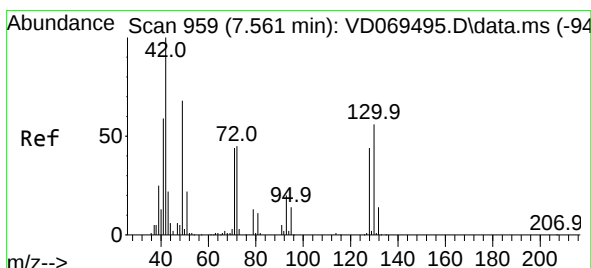
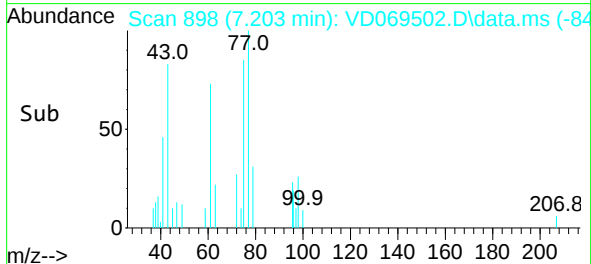
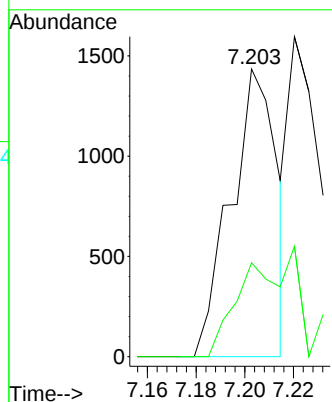
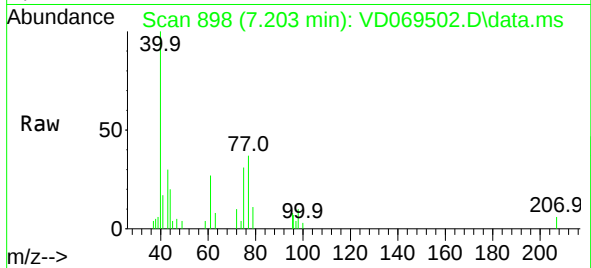




#25
2-Butanone
Concen: 1.602 ug/l
RT: 7.203 min Scan# 898
Delta R.T. -0.012 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

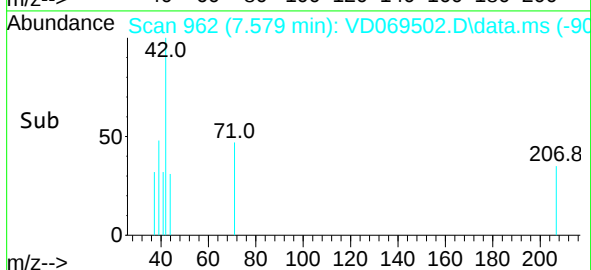
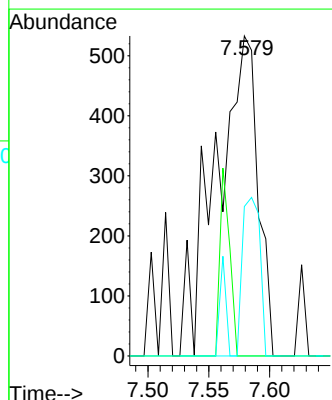
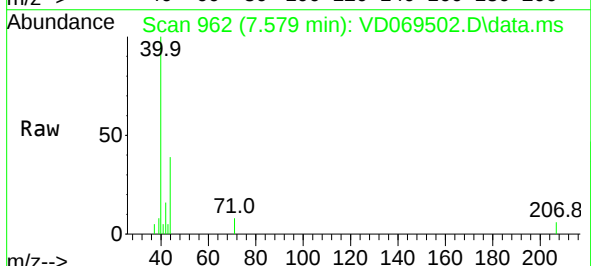
Instrument :
MSVOA_D
ClientSampled :

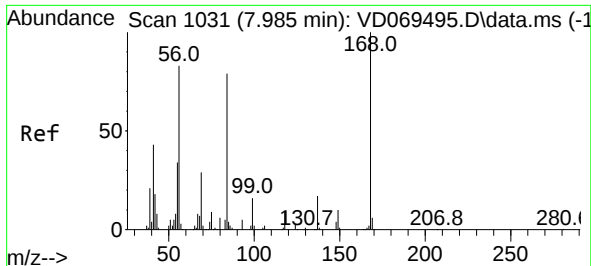
Tgt Ion: 43 Resp: 1882
Ion Ratio Lower Upper
43 100
72 32.6 24.3 36.5



#29
Tetrahydrofuran
Concen: 2.013 ug/l
RT: 7.579 min Scan# 962
Delta R.T. 0.018 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

Tgt Ion: 42 Resp: 1296
Ion Ratio Lower Upper
42 100
72 0.0 37.9 56.9#
71 20.4 35.1 52.7#

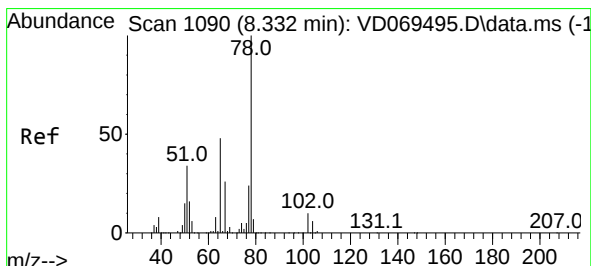
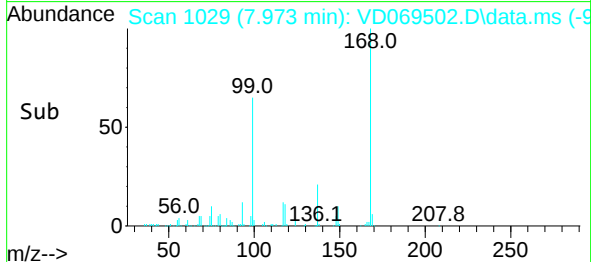
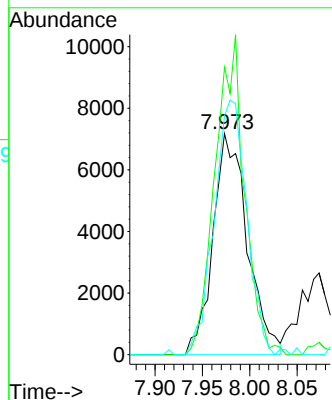
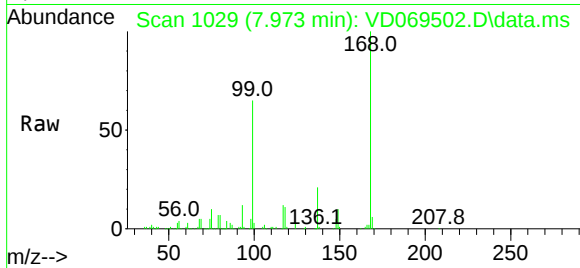




#31
Cyclohexane
Concen: 2.444 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

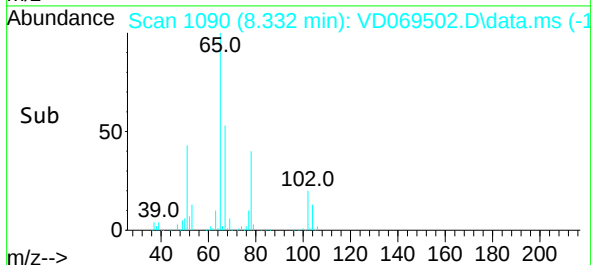
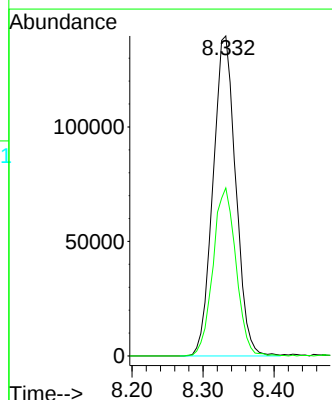
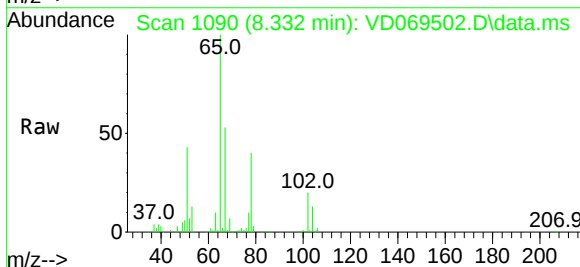
Instrument :
MSVOA_D
ClientSampled :

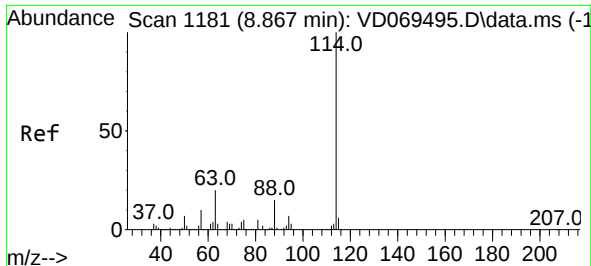
Tgt Ion: 56 Resp: 18068
Ion Ratio Lower Upper
56 100
69 130.0 28.0 42.0#
84 107.9 75.7 113.5



#33
1,2-Dichloroethane-d4
Concen: 56.365 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

Tgt Ion: 65 Resp: 309519
Ion Ratio Lower Upper
65 100
67 53.1 0.0 105.6

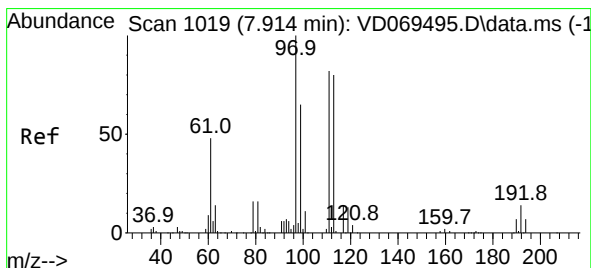
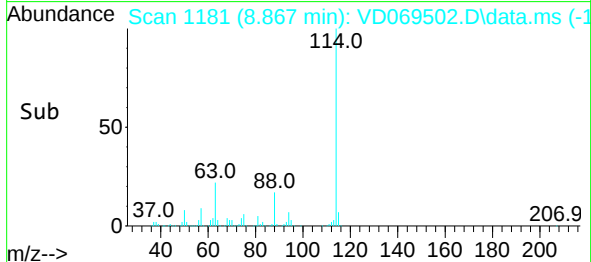
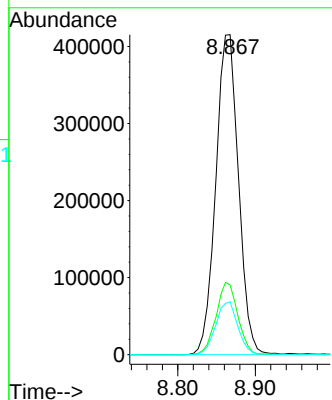
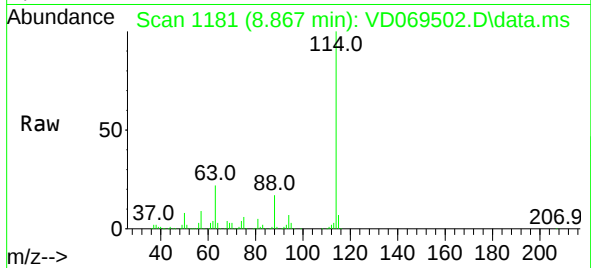




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

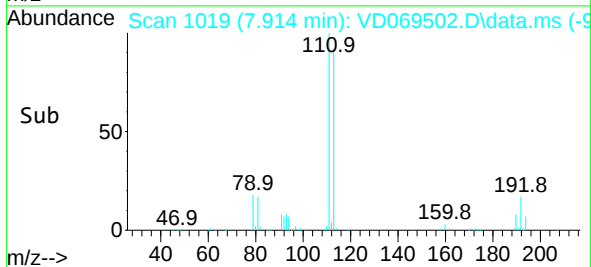
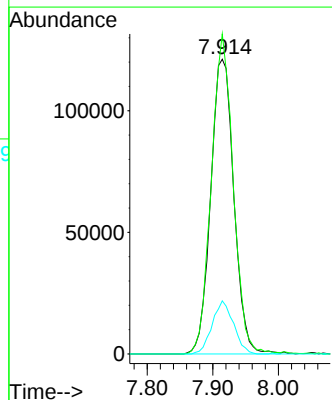
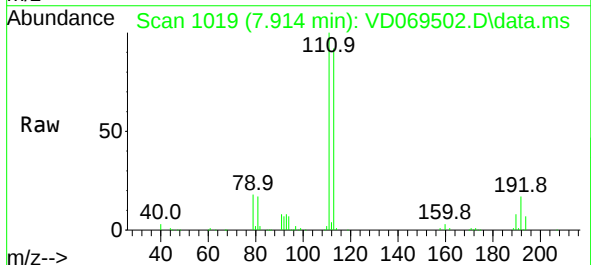
Instrument :
MSVOA_D
ClientSampled :

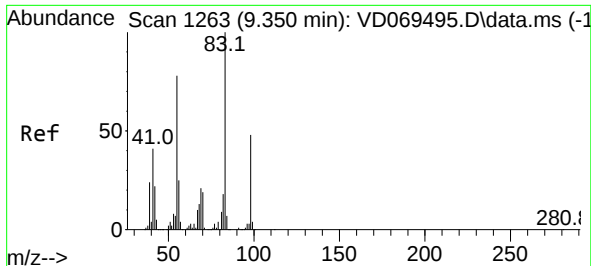
Tgt Ion:114 Resp: 846021
Ion Ratio Lower Upper
114 100
63 21.8 0.0 39.6
88 16.6 0.0 29.8



#35
Dibromofluoromethane
Concen: 51.914 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

Tgt Ion:113 Resp: 296894
Ion Ratio Lower Upper
113 100
111 102.5 81.8 122.8
192 16.6 13.8 20.6





#39

Methylcyclohexane

Concen: 1.173 ug/l

RT: 9.344 min Scan# 1262

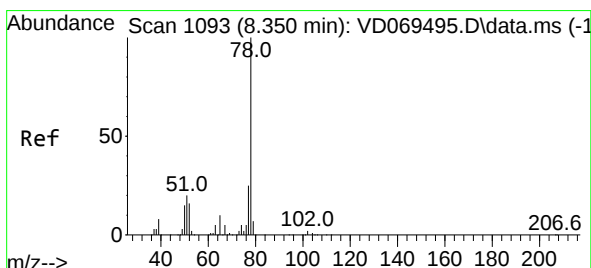
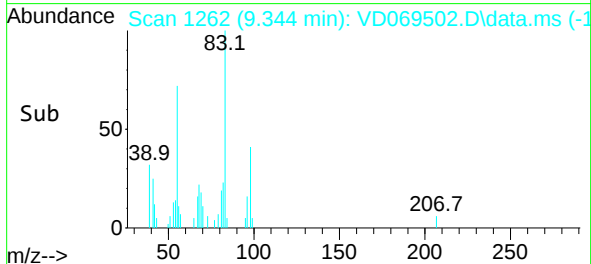
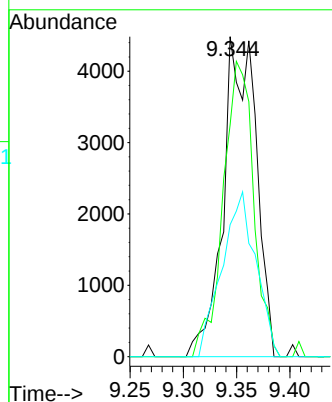
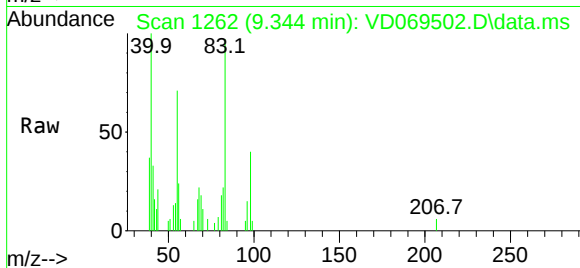
Delta R.T. -0.006 min

Lab File: VD069502.D

Acq: 21 Jun 2021 16:00

Tgt Ion: 83 Resp: 9611

Ion	Ratio	Lower	Upper
83	100		
55	72.4	62.6	93.8
98	41.2	38.7	58.1



#40

Benzene

Concen: 11.063 ug/l

RT: 8.350 min Scan# 1093

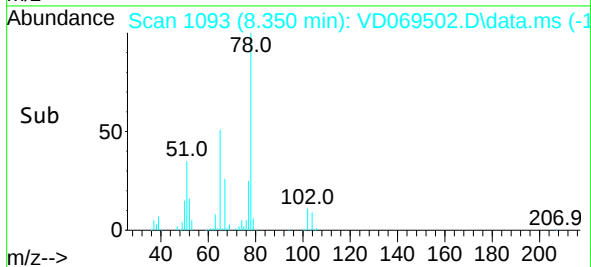
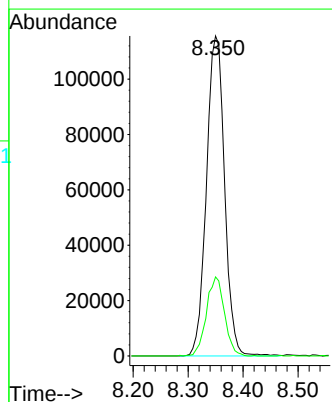
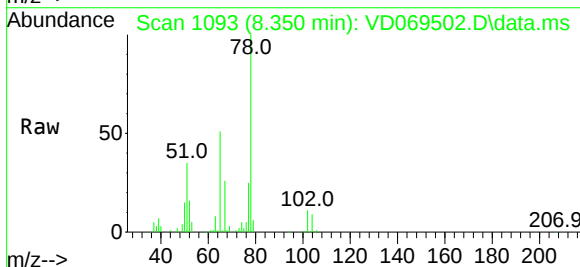
Delta R.T. 0.000 min

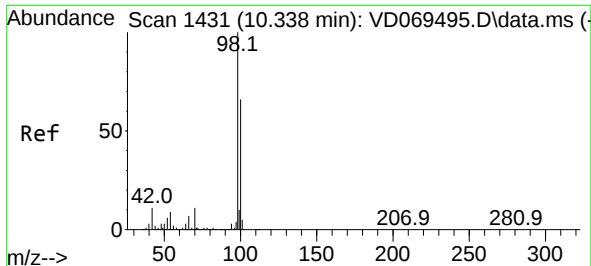
Lab File: VD069502.D

Acq: 21 Jun 2021 16:00

Tgt Ion: 78 Resp: 264822

Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.7	29.5

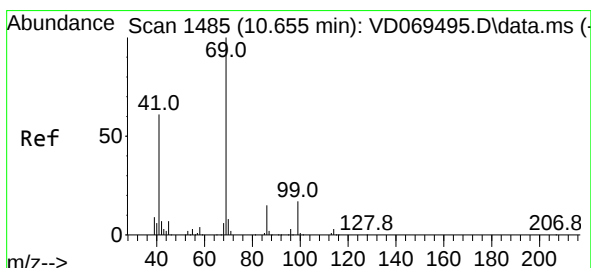
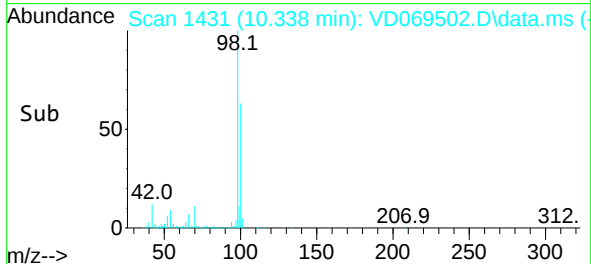
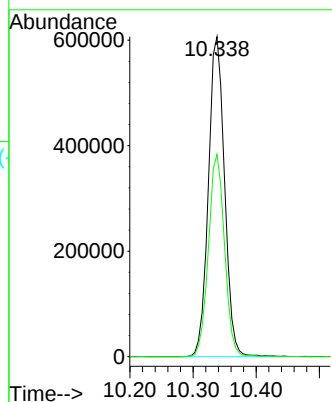
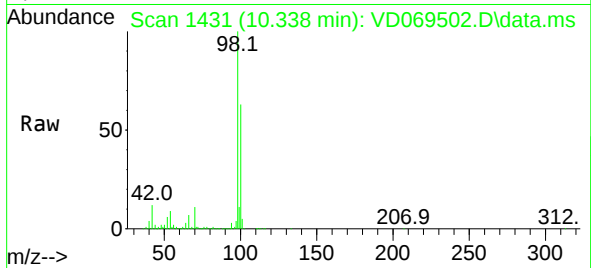




#50
Toluene-d8
Concen: 50.357 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

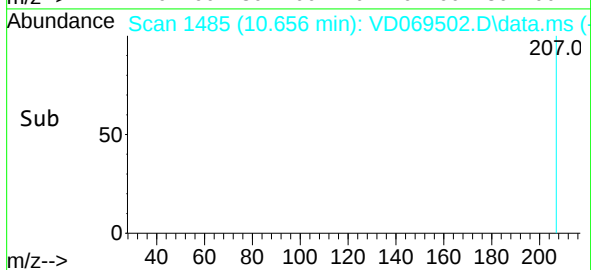
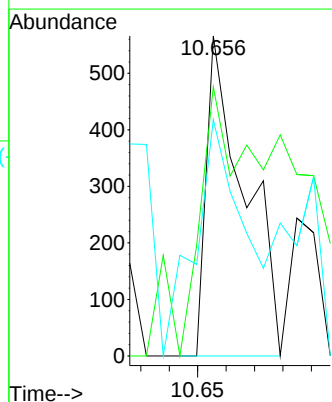
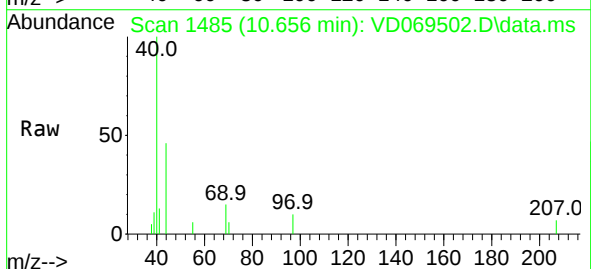
Instrument :
MSVOA_D
ClientSampled :

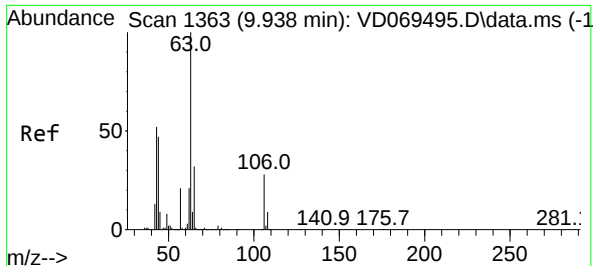
Tgt Ion: 98 Resp: 1080217
Ion Ratio Lower Upper
98 100
100 63.0 52.3 78.5



#56
Ethyl methacrylate
Concen: 2.675 ug/l
RT: 10.656 min Scan# 1485
Delta R.T. 0.001 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

Tgt Ion: 69 Resp: 526
Ion Ratio Lower Upper
69 100
41 125.5 49.4 74.0#
39 95.2 26.9 40.3#

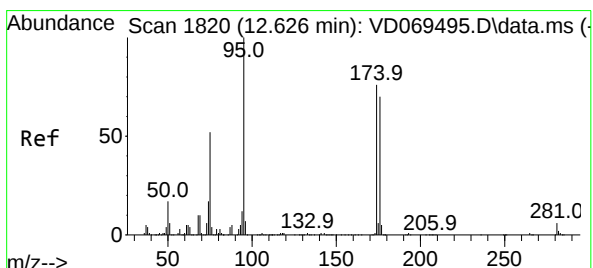
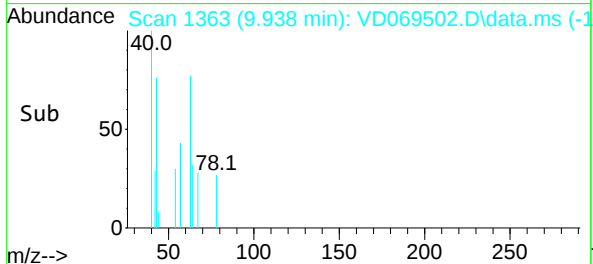
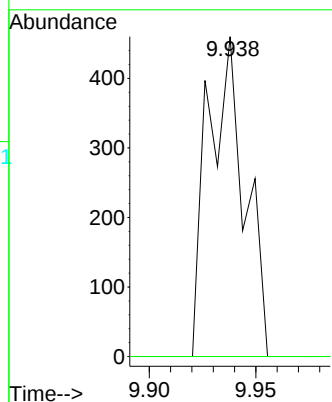
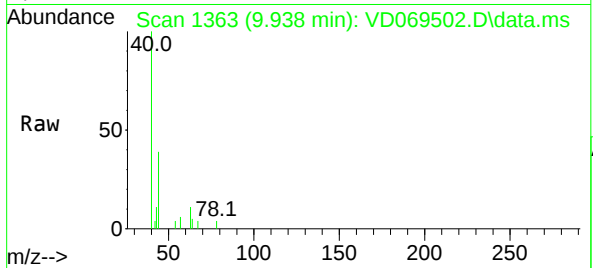




#58
2-Chloroethyl Vinyl ether
Concen: 10.790 ug/l
RT: 9.938 min Scan# 1363
Delta R.T. -0.000 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

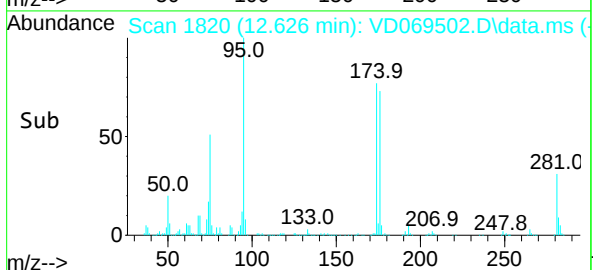
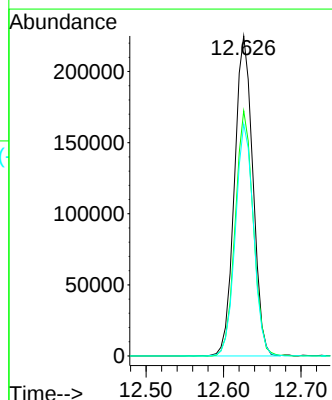
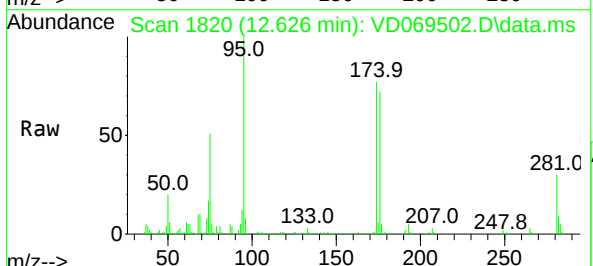
Instrument :
MSVOA_D
ClientSampled :

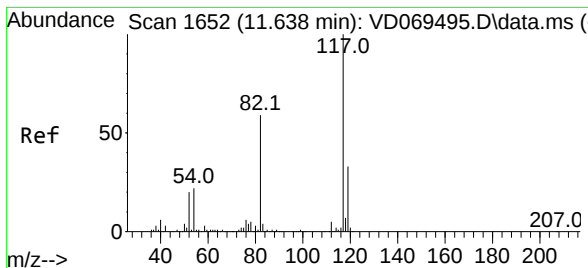
Tgt Ion: 63 Resp: 553
Ion Ratio Lower Upper
63 100
106 0.0 22.2 33.2#



#62
4-Bromofluorobenzene
Concen: 52.672 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

Tgt Ion: 95 Resp: 371455
Ion Ratio Lower Upper
95 100
174 75.0 0.0 148.0
176 71.3 0.0 139.8

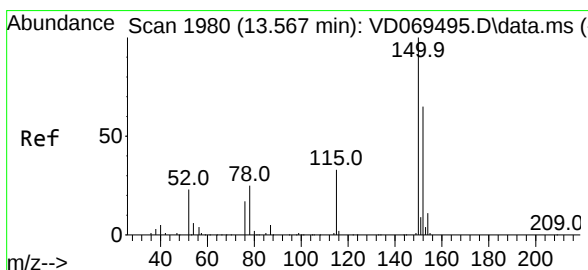
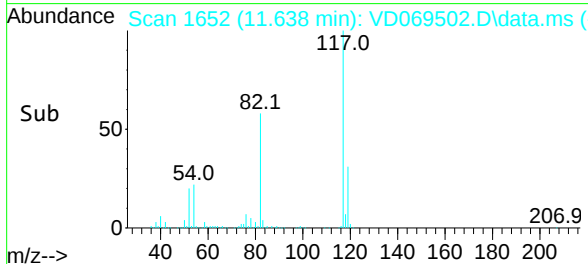
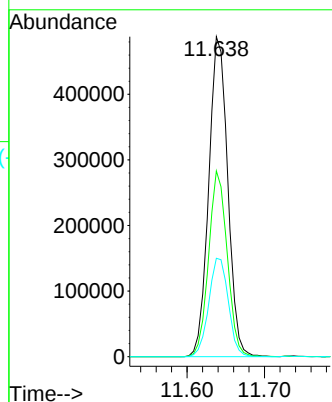
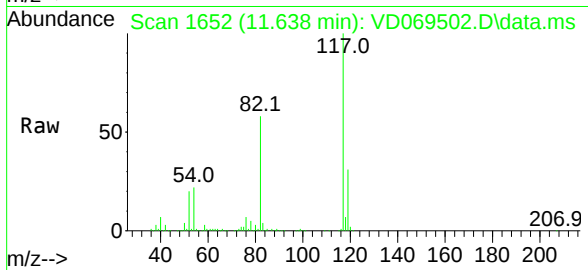




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

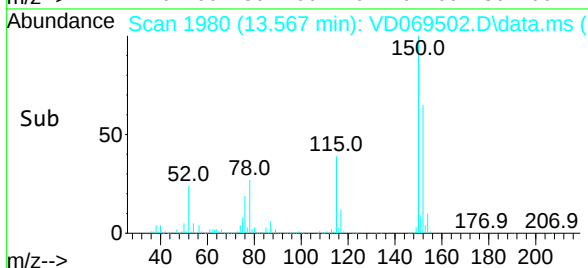
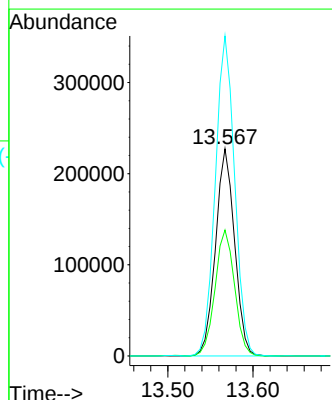
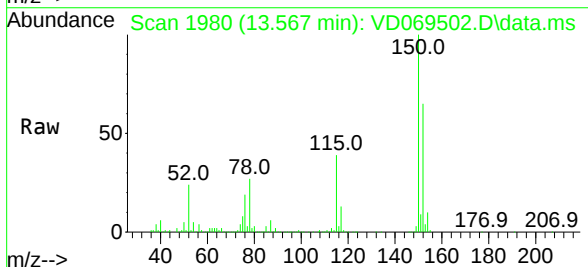
Instrument :
MSVOA_D
ClientSampleId :

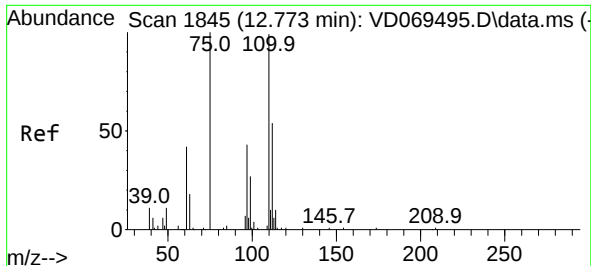
Tgt Ion:117 Resp: 833023
Ion Ratio Lower Upper
117 100
82 58.0 46.8 70.2
119 30.8 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

Tgt Ion:152 Resp: 352599
Ion Ratio Lower Upper
152 100
115 62.3 31.7 95.1
150 157.2 0.0 350.8

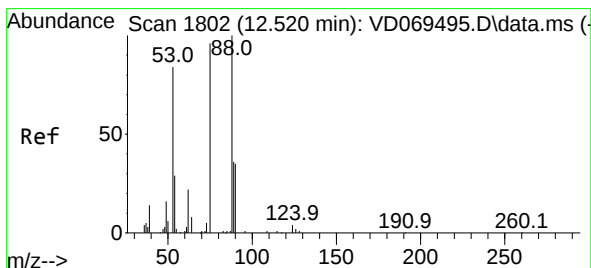
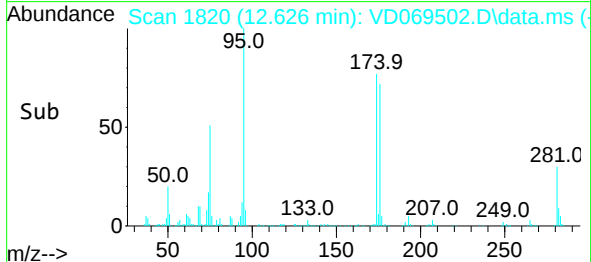
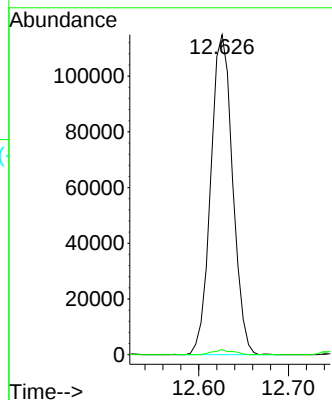
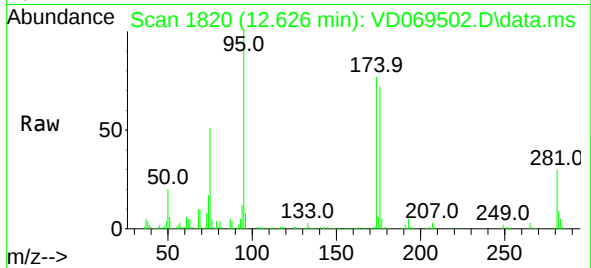




#76
1,2,3-Trichloropropane
Concen: 56.192 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

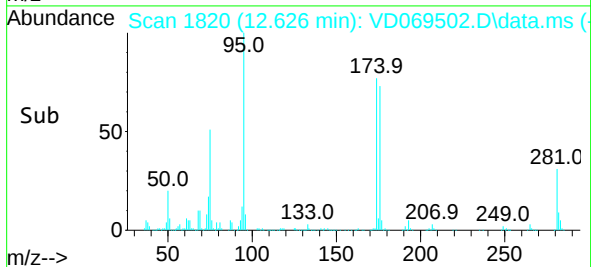
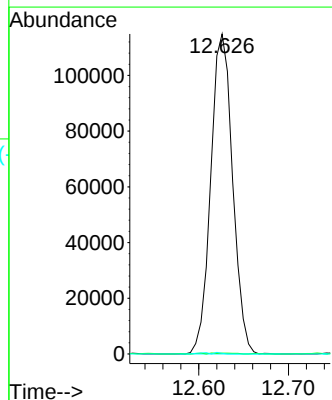
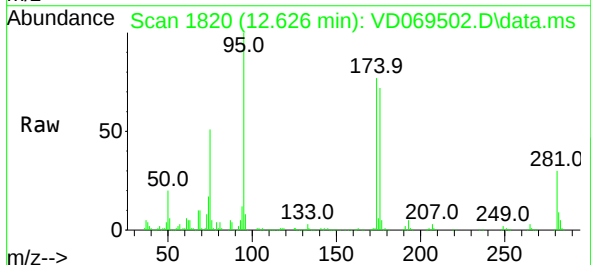
Instrument :
MSVOA_D
ClientSampleId :

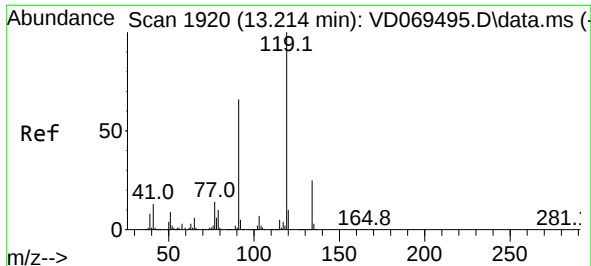
Tgt Ion: 75 Resp: 194492
Ion Ratio Lower Upper
75 100
77 1.4 162.6 487.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 140.303 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

Tgt Ion: 75 Resp: 194492
Ion Ratio Lower Upper
75 100
53 0.3 74.6 112.0#
89 0.1 35.3 52.9#

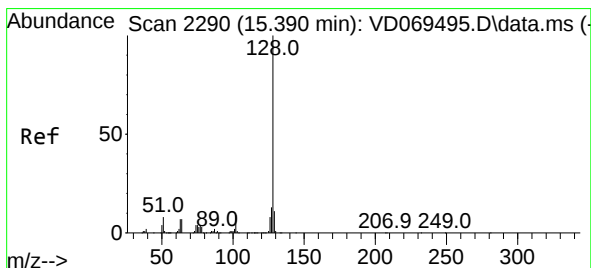
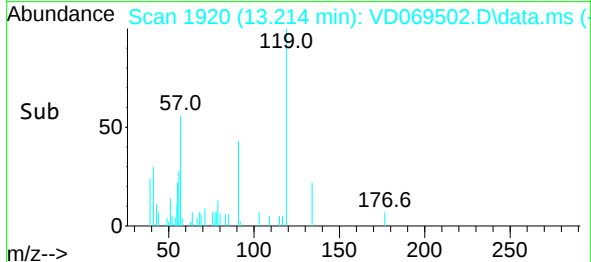
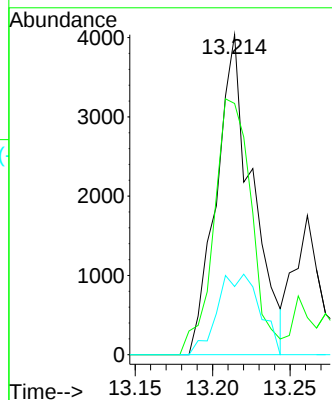
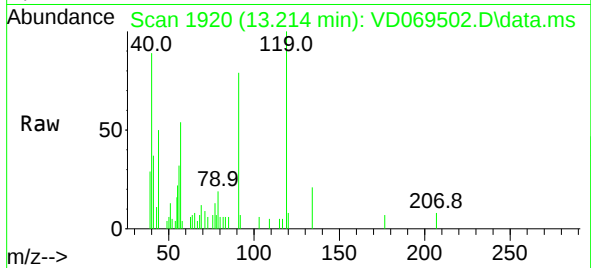




#83
tert-Butylbenzene
Concen: 2.334 ug/l
RT: 13.214 min Scan# 1920
Delta R.T. 0.000 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion:	119	Resp:	6508
Ion	Ratio	Lower	Upper
119	100		
91	83.7	32.5	97.4
134	29.7	12.9	38.7



#95
Naphthalene
Concen: 4.099 ug/l
RT: 15.391 min Scan# 2290
Delta R.T. 0.001 min
Lab File: VD069502.D
Acq: 21 Jun 2021 16:00

Tgt Ion:	128	Resp:	8766
Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.6	16.0
129	12.6	8.7	13.1

