

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040419\
 Data File : VD061597.D
 Acq On : 4 Apr 2019 23:41
 Operator : VA/AP
 Sample : K2232-02
 Misc : 3.88g/5ml/MSVOA D/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

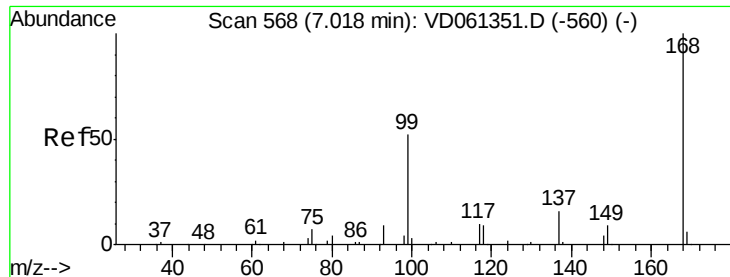
Quant Time: Apr 05 01:42:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	440136	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.20	114	772957	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	676647	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	241426	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	183458	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
35) Dibromofluoromethane	6.90	113	239702	40.58	ug/l	0.00
Spiked Amount			Recovery	=	81.16%	
50) Toluene-d8	10.38	98	562357	39.69	ug/l	0.00
Spiked Amount			Recovery	=	79.38%	
62) 4-Bromofluorobenzene	13.54	95	228342	42.03	ug/l	0.00
Spiked Amount			Recovery	=	84.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.85	74	1921	1.166	ug/l #	1
16) Acetone	3.21	43	59437	61.496	ug/l #	86
18) Methyl Acetate	3.62	43	2697	1.327	ug/l #	55
20) Methylene Chloride	3.80	84	82701	13.887	ug/l	96
25) 2-Butanone	6.03	43	4531	3.727	ug/l #	89
29) Tetrahydrofuran	6.44	42	1403	2.381	ug/l #	43
31) Cyclohexane	7.02	56	6709	1.036	ug/l #	1
36) 1,1-Dichloropropene	7.02	75	33211	4.923	ug/l #	46
37) Ethyl Acetate	6.10	43	5274	1.828	ug/l #	11
38) Carbon Tetrachloride	7.02	117	43761	5.645	ug/l #	14
48) Methyl methacrylate	8.95	41	2720	1.174	ug/l #	41
51) 4-Methyl-2-Pentanone	10.28	43	2697	1.056	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.54	75	86355	81.212	ug/l #	18

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.00 min

Lab File: VD061597.D

Acq: 4 Apr 2019 23:41

Instrument :

MSVOA_D

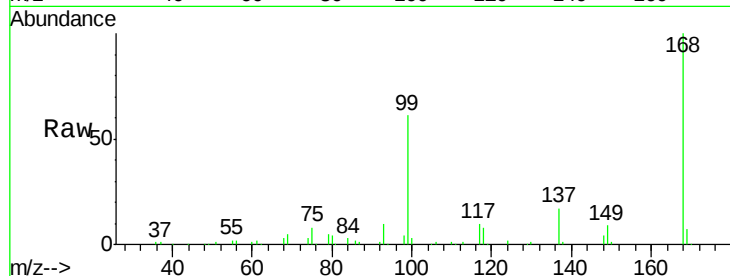
ClientSampleId :

Tot Ion:168 Resp: 440136

Ion Ratio Lower Upper

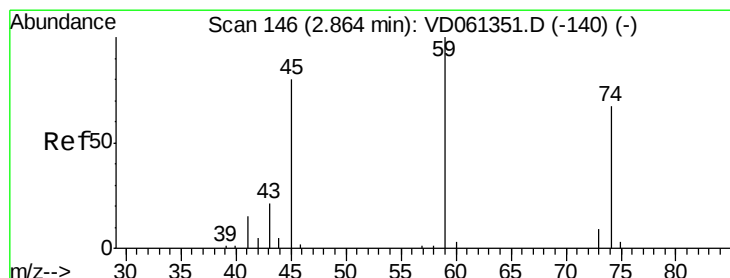
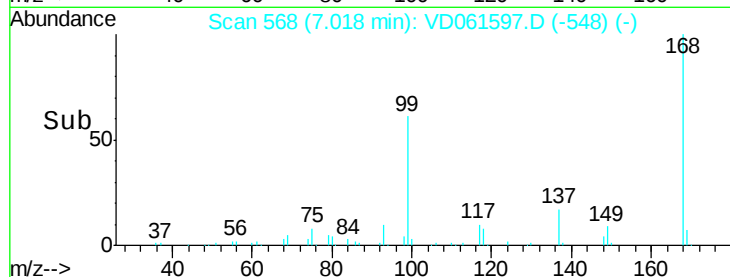
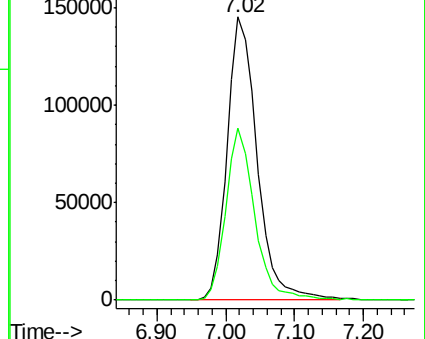
168 100

99 60.7 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.166 ug/l

RT: 2.85 min Scan# 145

Delta R.T. -0.01 min

Lab File: VD061597.D

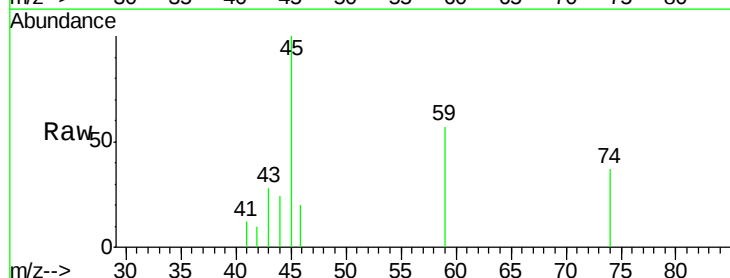
Acq: 4 Apr 2019 23:41

Tgt Ion: 74 Resp: 1921

Ion Ratio Lower Upper

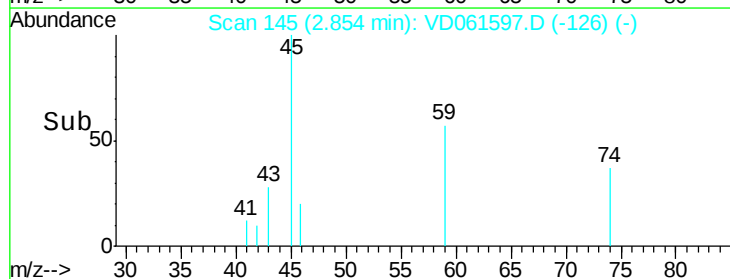
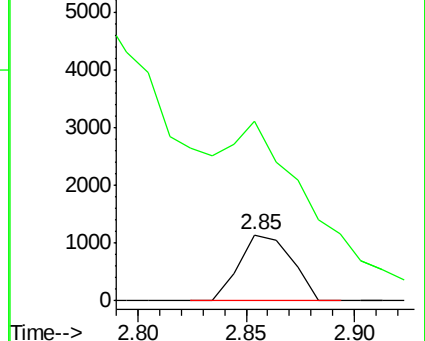
74 100

45 273.0 59.7 179.1#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#16

Acetone

Concen: 61.496 ug/l

RT: 3.21 min Scan# 181

Delta R.T. 0.01 min

Lab File: VD061597.D

Acq: 4 Apr 2019 23:41

Instrument :

MSVOA_D

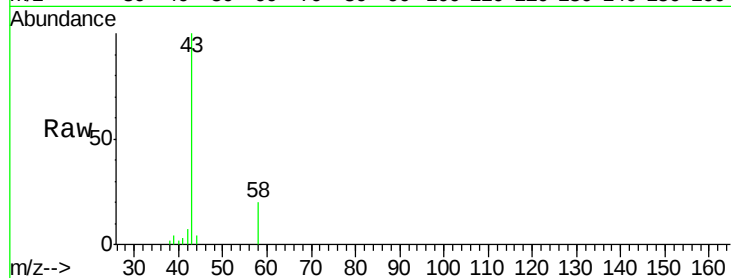
ClientSampleId :

Tot Ion: 43 Resp: 59437

Ion Ratio Lower Upper

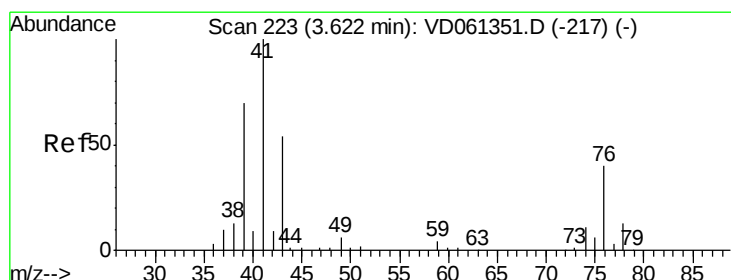
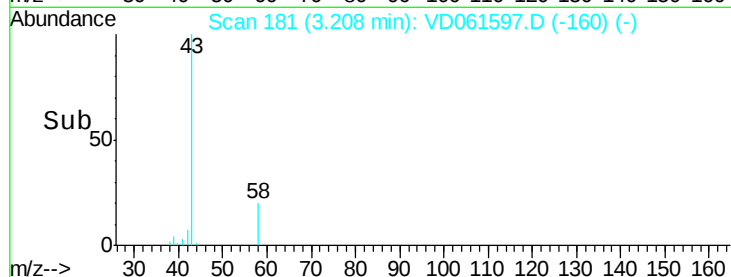
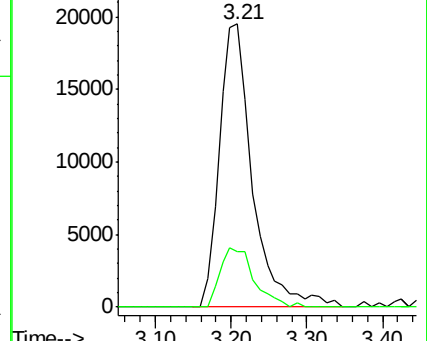
43 100

58 19.7 21.5 32.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.327 ug/l

RT: 3.62 min Scan# 223

Delta R.T. 0.00 min

Lab File: VD061597.D

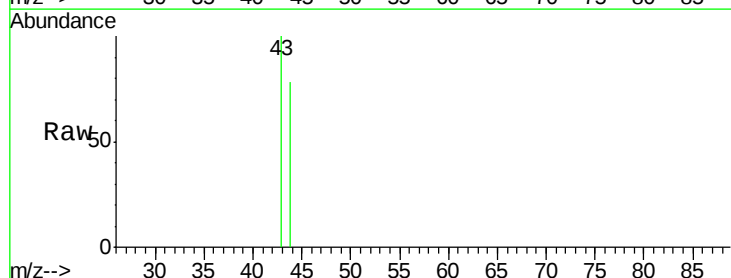
Acq: 4 Apr 2019 23:41

Tgt Ion: 43 Resp: 2697

Ion Ratio Lower Upper

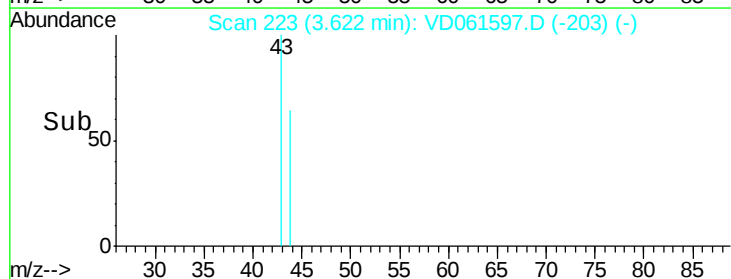
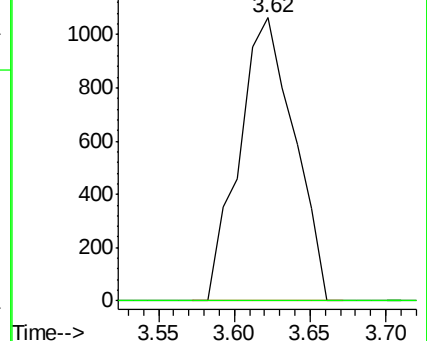
43 100

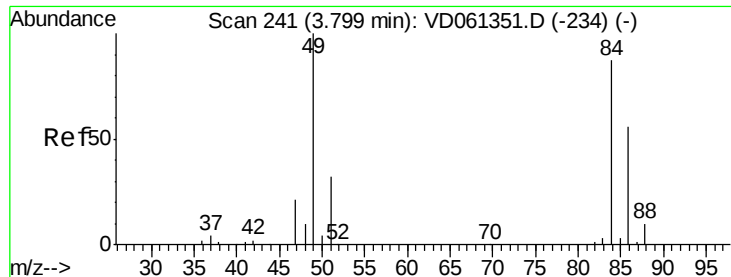
74 0.0 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

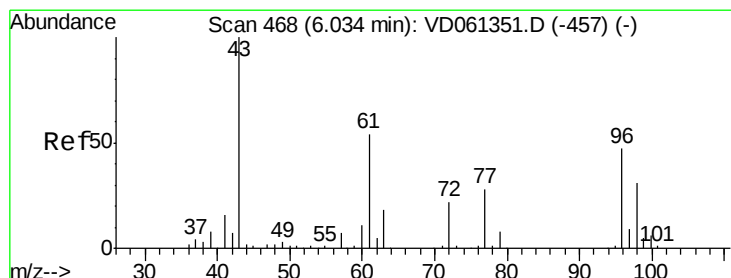
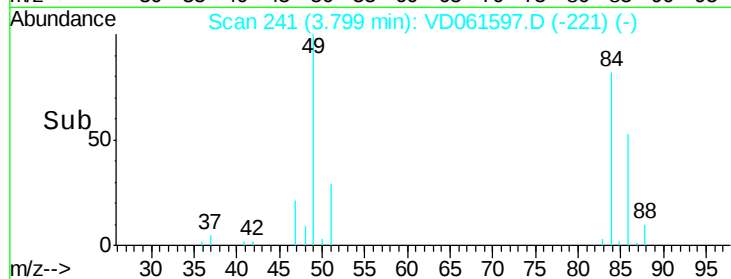
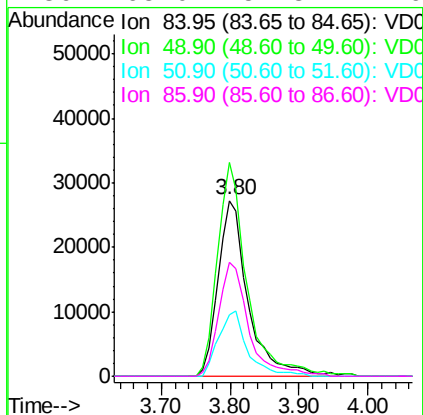
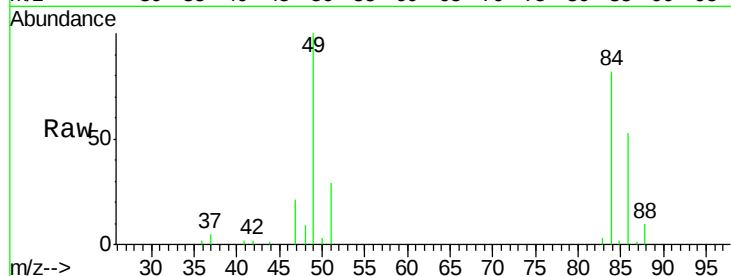




#20
Methylene Chloride
Concen: 13.887 ug/l
RT: 3.80 min Scan# 241
Delta R.T. 0.00 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

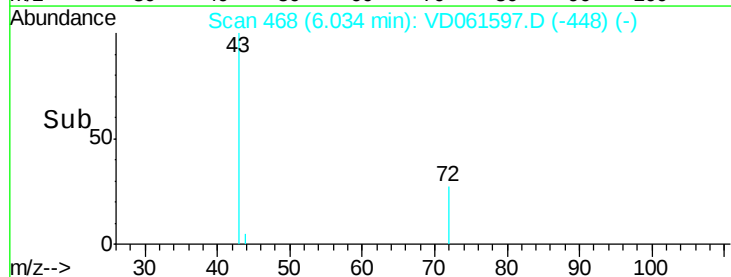
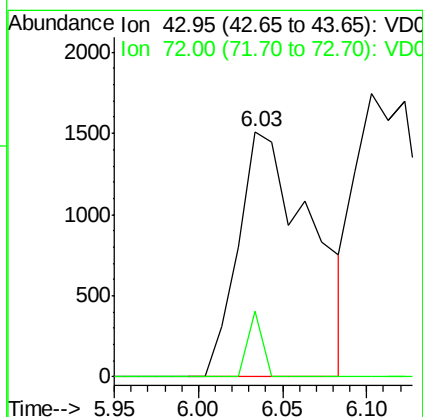
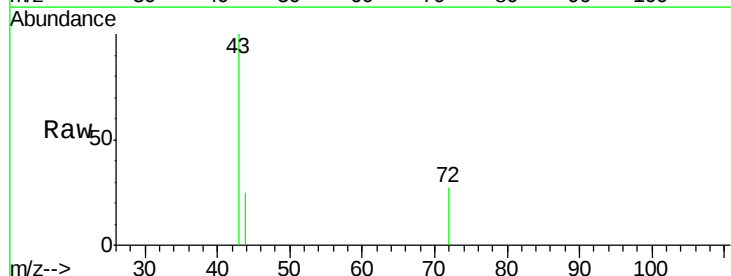
Instrument :
MSVOA_D
ClientSampleId :

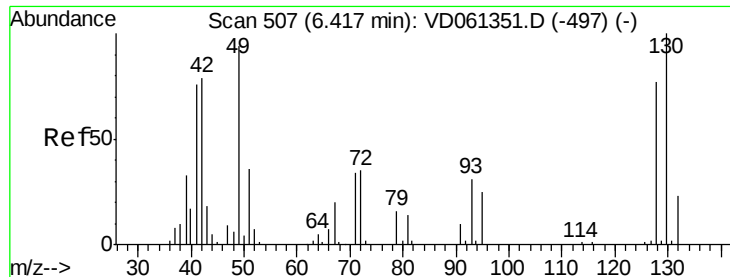
Tot Ion: 84 Resp: 82701
Ion Ratio Lower Upper
84 100
49 121.7 91.8 137.8
51 35.4 29.8 44.8
86 65.0 51.8 77.6



#25
2-Butanone
Concen: 3.727 ug/l
RT: 6.03 min Scan# 468
Delta R.T. 0.00 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

Tgt Ion: 43 Resp: 4531
Ion Ratio Lower Upper
43 100
72 26.9 17.2 25.8#

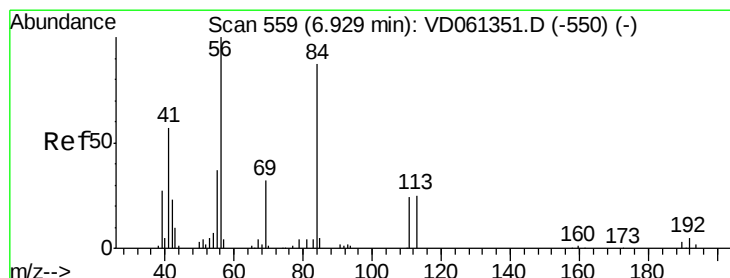
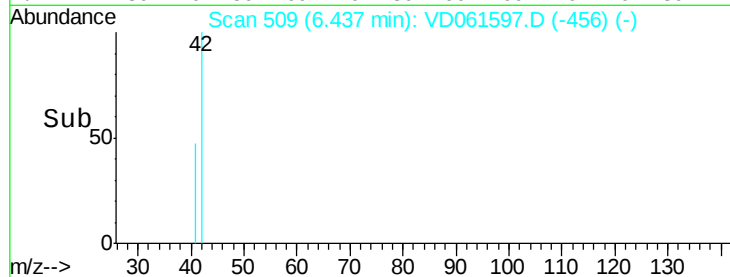
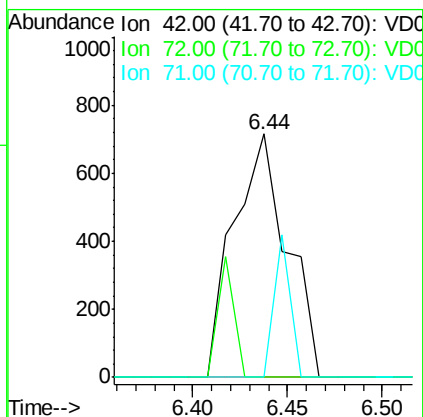
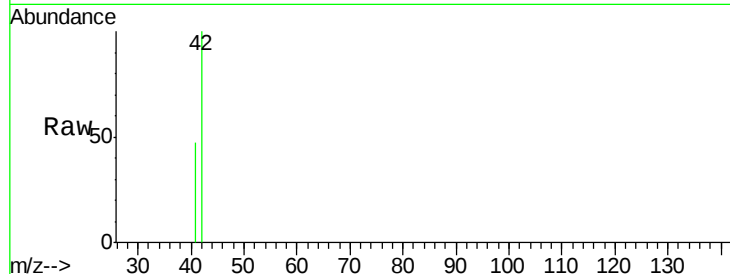




#29
Tetrahydrofuran
Concen: 2.381 ug/l
RT: 6.44 min Scan# 509
Delta R.T. 0.02 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

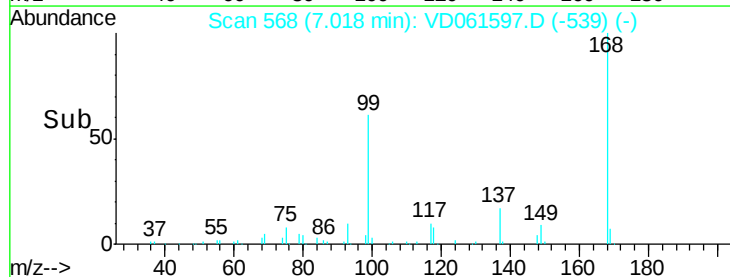
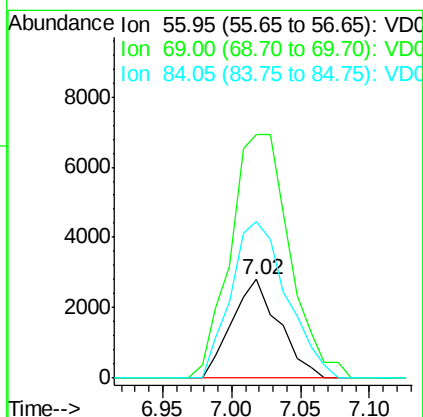
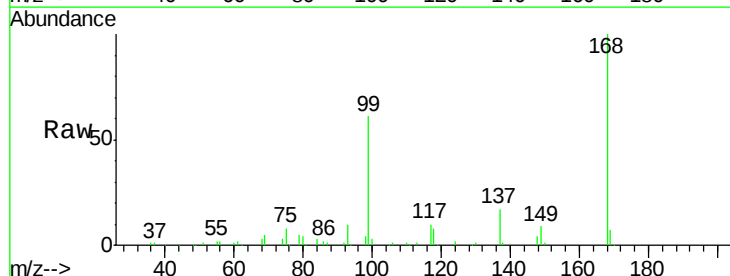
Instrument :
MSVOA_D
ClientSampleID :

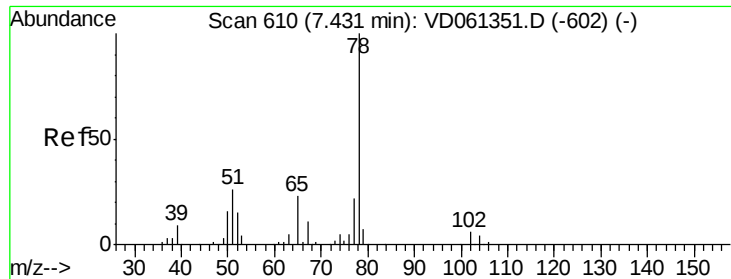
Tot Ion: 42 Resp: 1403
Ion Ratio Lower Upper
42 100
72 0.0 37.4 56.0#
71 17.7 36.7 55.1#



#31
Cyclohexane
Concen: 1.036 ug/l
RT: 7.02 min Scan# 568
Delta R.T. 0.09 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

Tgt Ion: 56 Resp: 6709
Ion Ratio Lower Upper
56 100
69 247.0 25.7 38.5#
84 158.6 70.6 105.8#

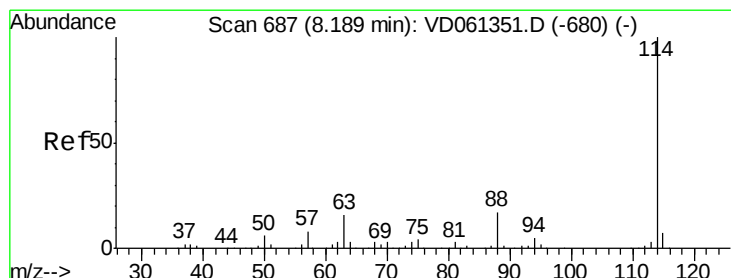
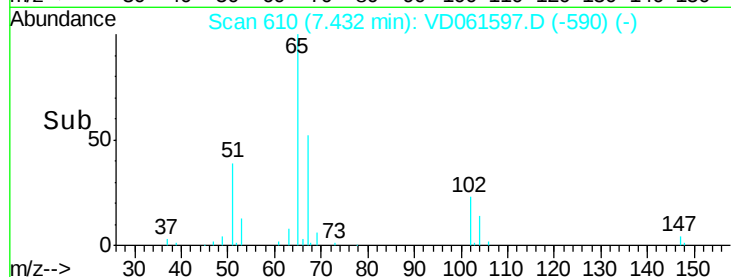
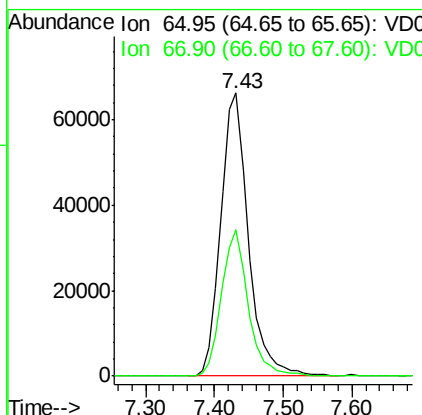
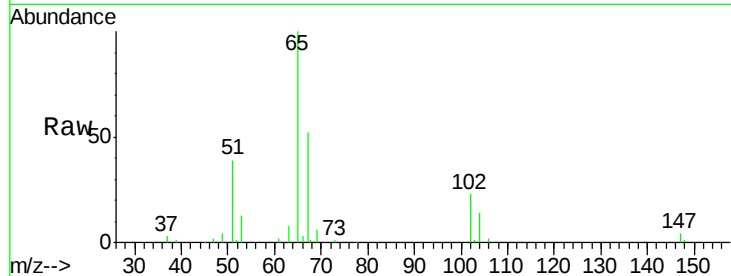




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.43 min Scan# 610
 Delta R.T. 0.00 min
 Lab File: VD061597.D
 Acq: 4 Apr 2019 23:41

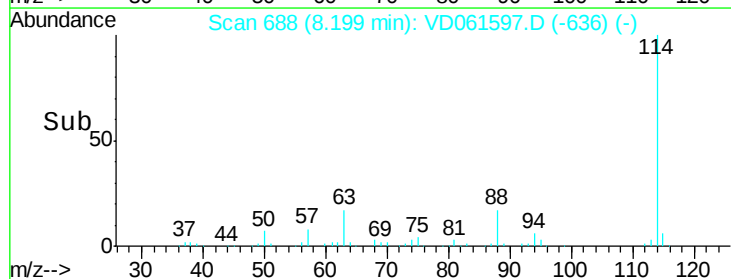
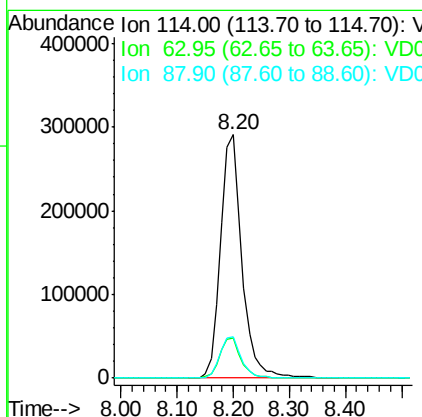
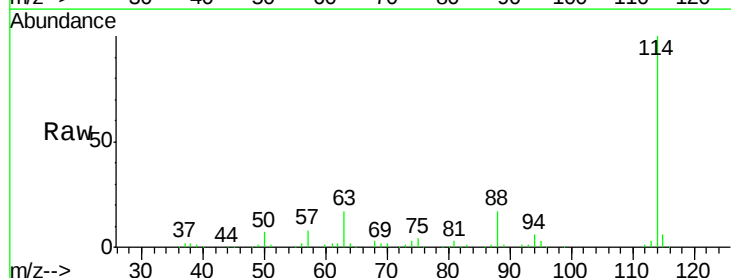
Instrument :
 MSVOA_D
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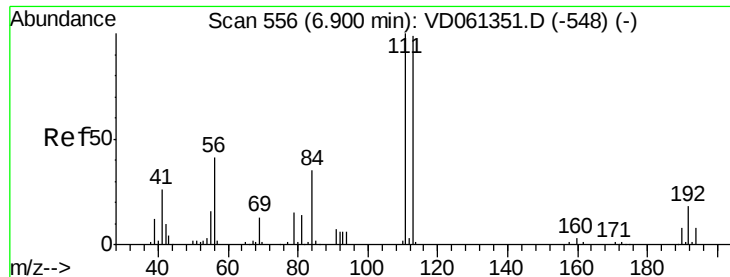
Tot Ion: 65 Resp: 183458
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 688
 Delta R.T. 0.01 min
 Lab File: VD061597.D
 Acq: 4 Apr 2019 23:41

Tgt Ion: 114 Resp: 772957
 Ion Ratio Lower Upper
 114 100
 63 16.5 0.0 31.6
 88 16.9 0.0 33.4

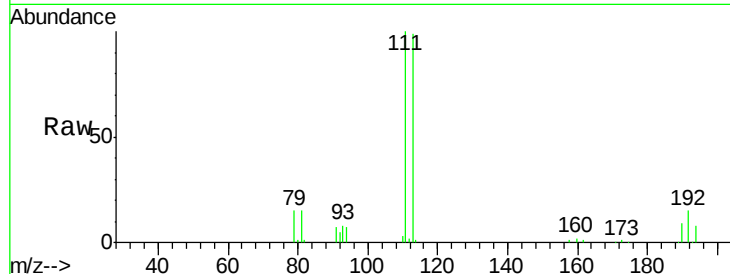




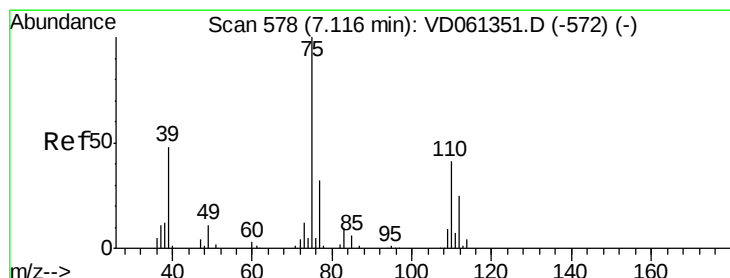
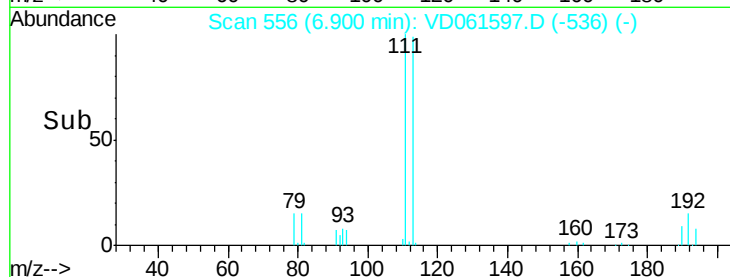
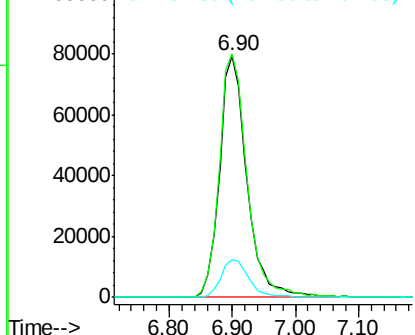
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.90 min Scan# 556
Delta R.T. 0.00 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:113 Resp: 239702
Ion Ratio Lower Upper
113 100
111 100.8 81.0 121.6
192 15.5 14.4 21.6

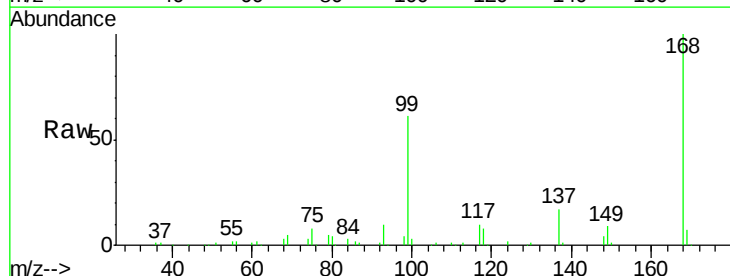


Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V

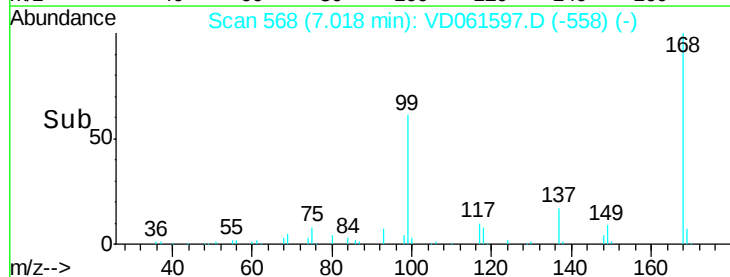
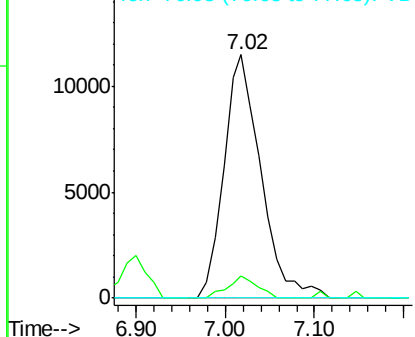


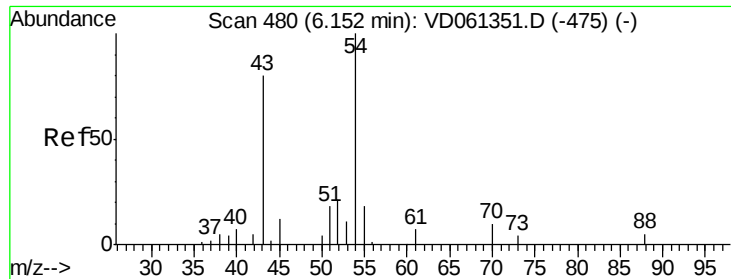
#36
1,1-Dichloropropene
Concen: 4.923 ug/l
RT: 7.02 min Scan# 568
Delta R.T. -0.10 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

Tgt Ion: 75 Resp: 33211
Ion Ratio Lower Upper
75 100
110 8.9 20.4 61.3#
77 0.0 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC

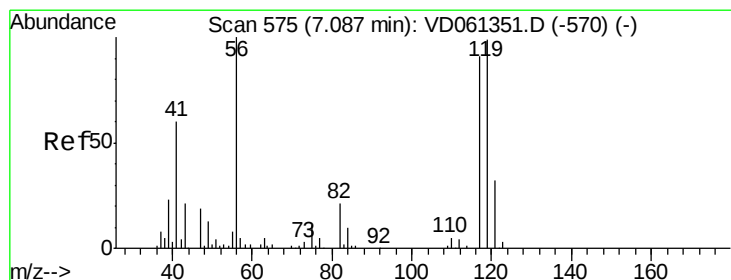
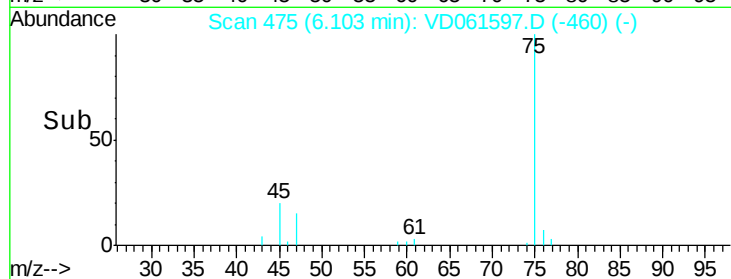
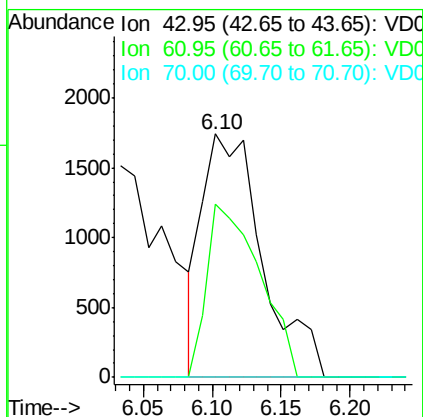
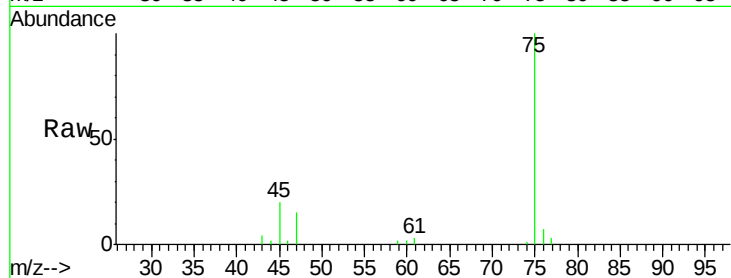




#37
Ethyl Acetate
Concen: 1.828 ug/l
RT: 6.10 min Scan# 475
Delta R.T. -0.05 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

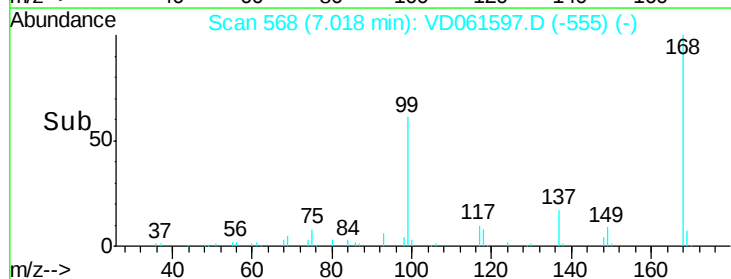
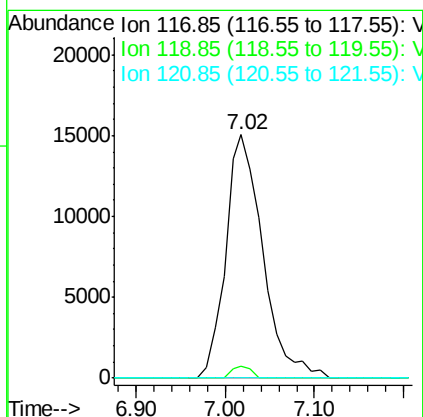
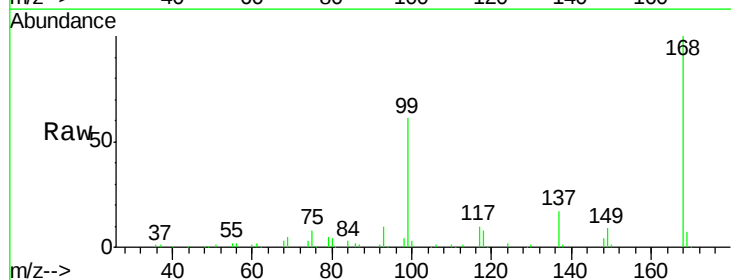
Instrument :
MSVOA_D
ClientSampleID :

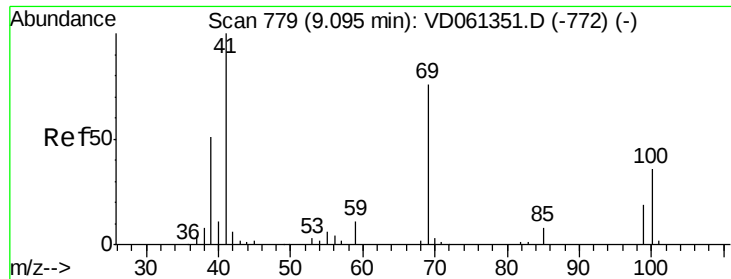
Tot Ion: 43 Resp: 5274
Ion Ratio Lower Upper
43 100
61 71.2 13.8 20.8#
70 0.0 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 5.645 ug/l
RT: 7.02 min Scan# 568
Delta R.T. -0.07 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

Tgt Ion: 117 Resp: 43761
Ion Ratio Lower Upper
117 100
119 4.8 80.1 120.1#
121 0.0 25.6 38.4#

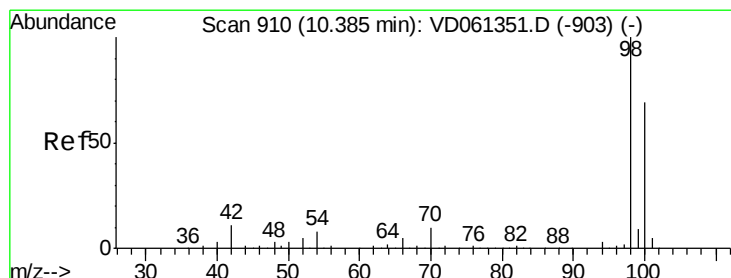
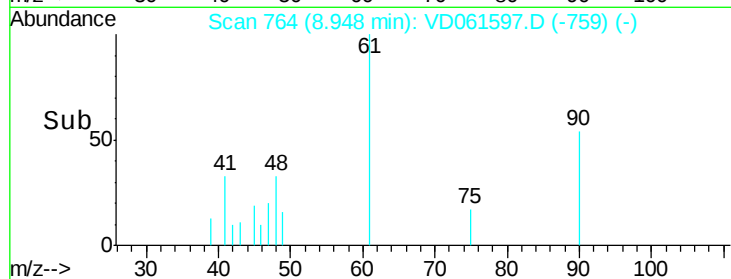
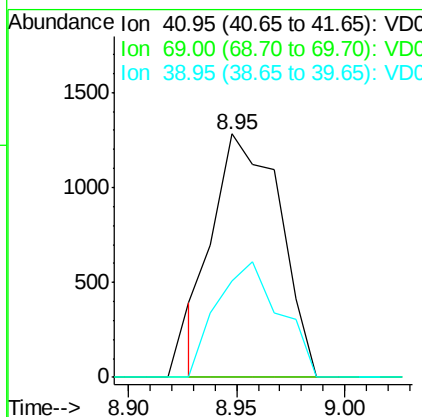
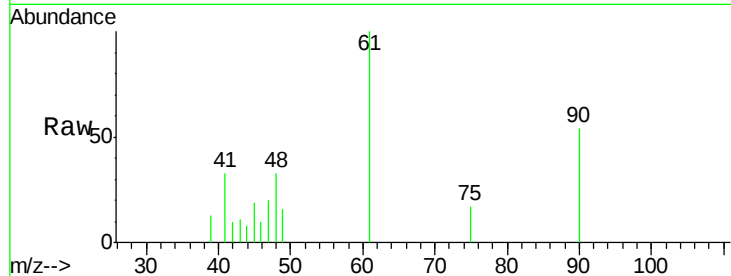




#48
Methvl methacrylate
Concen: 1.174 ug/l
RT: 8.95 min Scan# 764
Delta R.T. -0.15 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

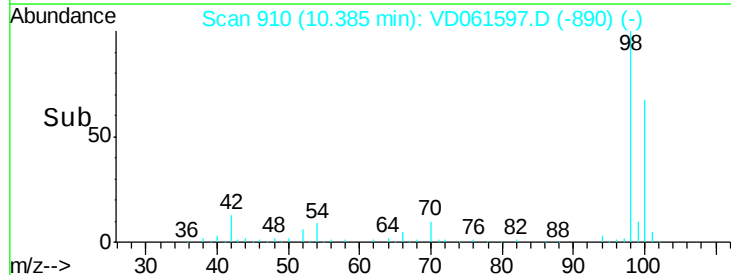
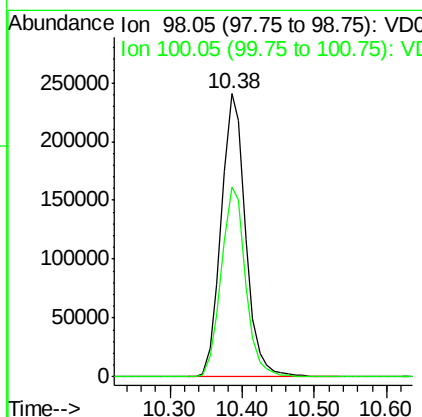
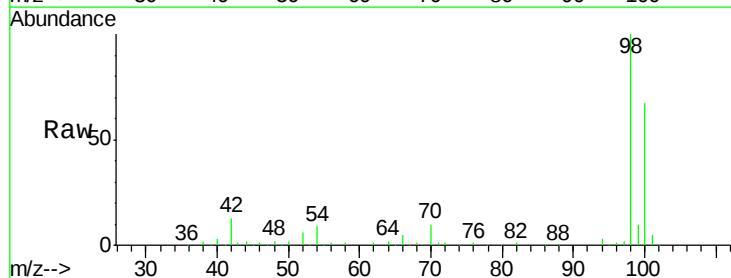
Instrument :
MSVOA_D
ClientSampleId :

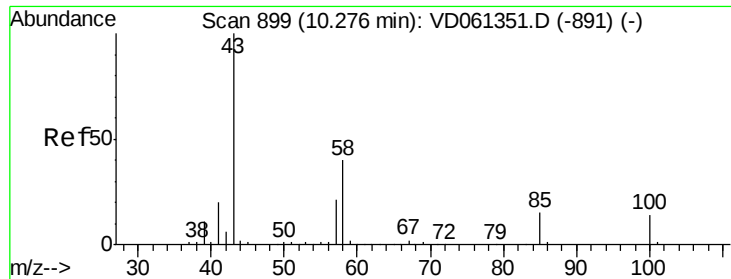
Tot Ion: 41 Resp: 2720
Ion Ratio Lower Upper
41 100
69 0.0 60.2 90.4#
39 39.9 41.4 62.2#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.38 min Scan# 910
Delta R.T. 0.00 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

Tgt Ion: 98 Resp: 562357
Ion Ratio Lower Upper
98 100
100 67.2 56.2 84.2

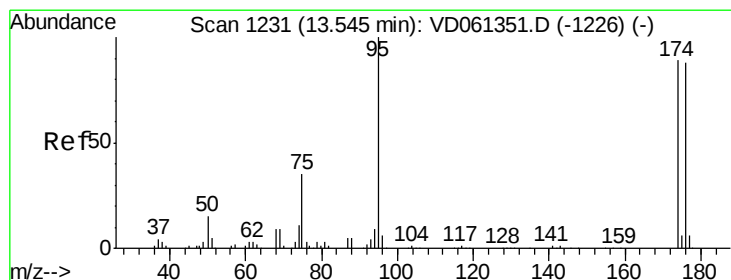
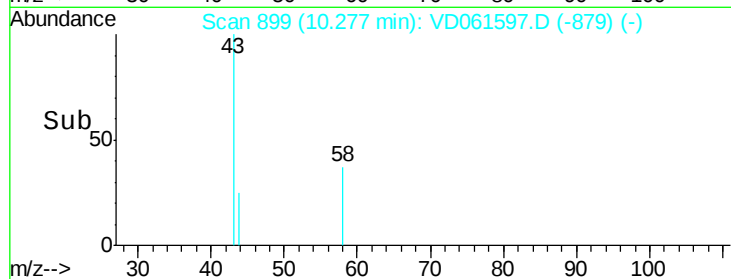
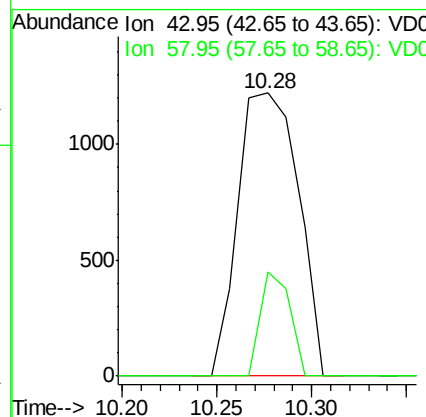
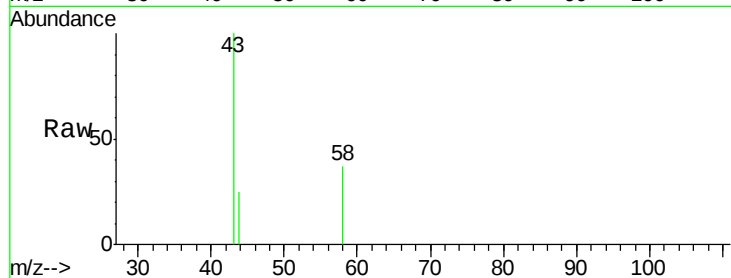




#51
4-Methyl-2-Pentanone
Concen: 1.056 ug/l
RT: 10.28 min Scan# 899
Delta R.T. 0.00 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

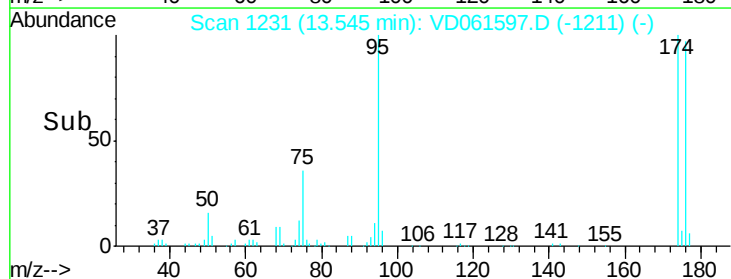
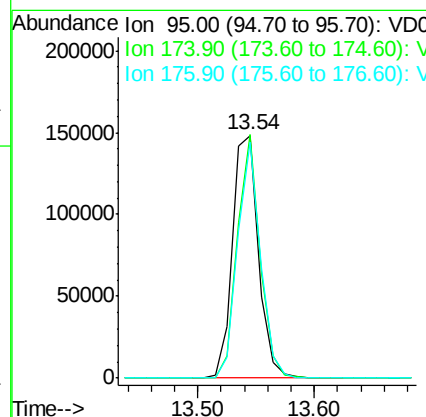
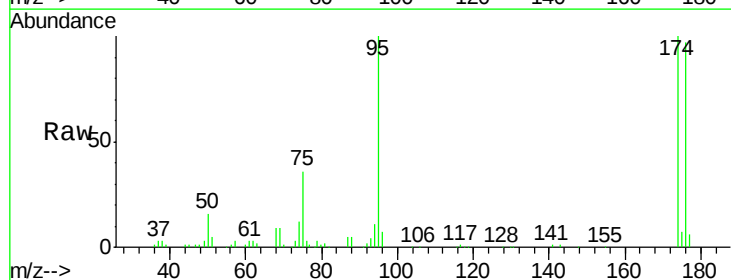
Instrument :
MSVOA_D
ClientSampleID :

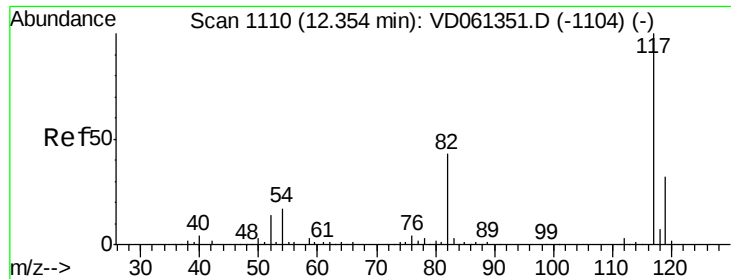
Tot Ion: 43 Resp: 2697
Ion Ratio Lower Upper
43 100
58 36.8 31.8 47.8



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.54 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

Tgt Ion: 95 Resp: 228342
Ion Ratio Lower Upper
95 100
174 100.5 0.0 178.0
176 97.2 0.0 175.0

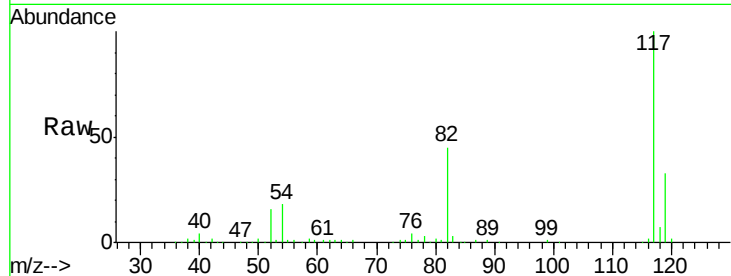




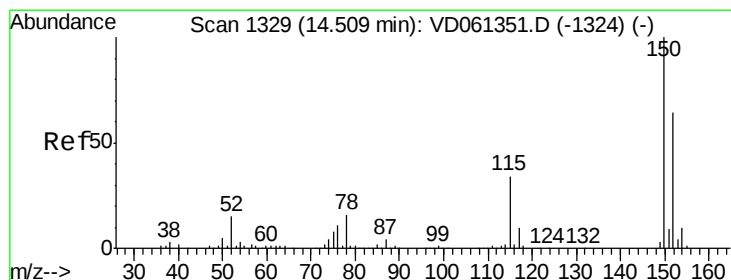
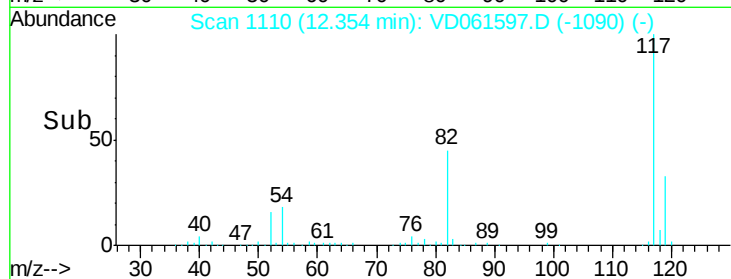
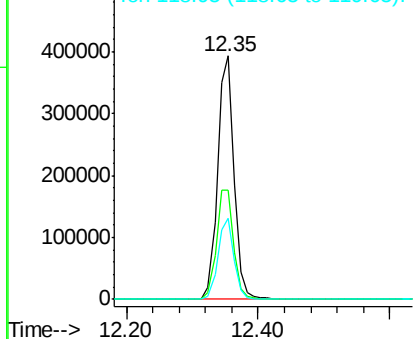
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:117 Resp: 676647
Ion Ratio Lower Upper
117 100
82 44.8 34.4 51.6
119 33.1 25.8 38.6

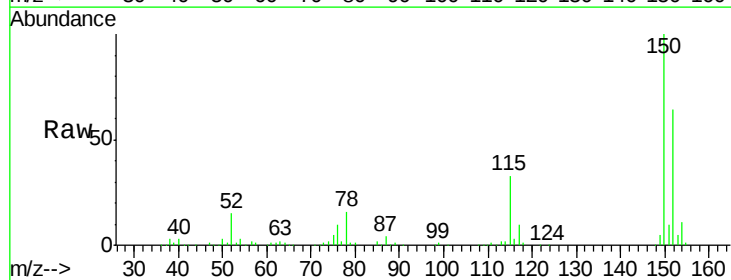


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

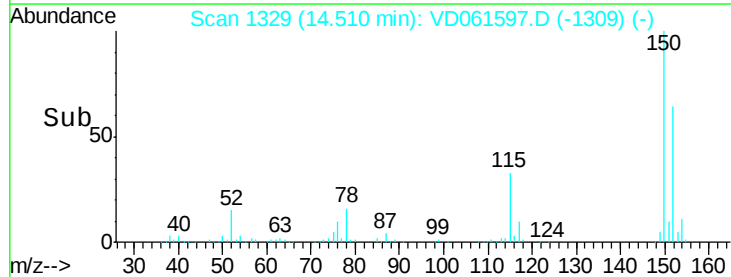
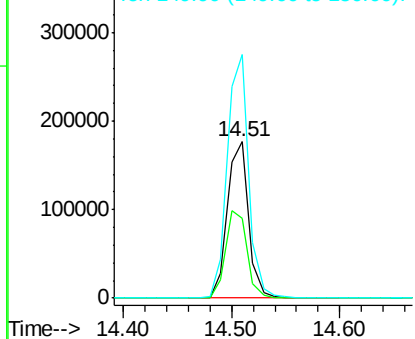


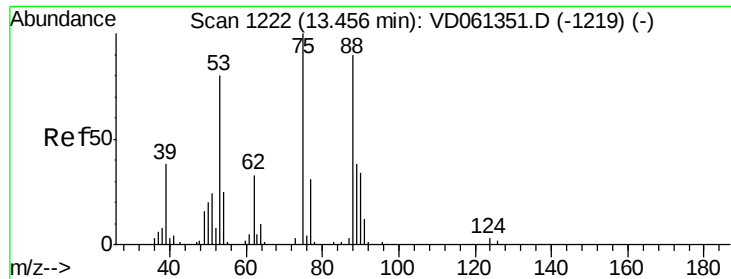
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. 0.00 min
Lab File: VD061597.D
Acq: 4 Apr 2019 23:41

Tgt Ion:152 Resp: 241426
Ion Ratio Lower Upper
152 100
115 51.0 26.9 80.6
150 155.8 0.0 318.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 81.212 ug/l

RT: 13.54 min Scan# 1230

Delta R.T. 0.08 min

Lab File: VD061597.D

Acq: 4 Apr 2019 23:41

Instrument :

MSVOA_D

ClientSampleId :

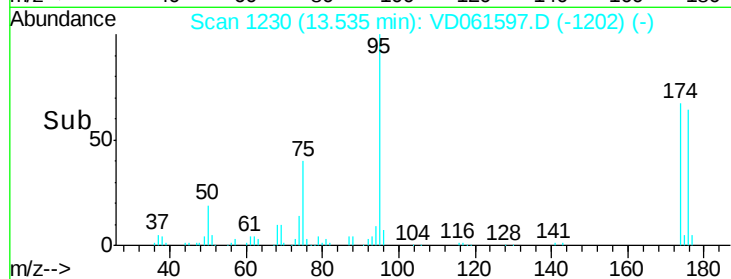
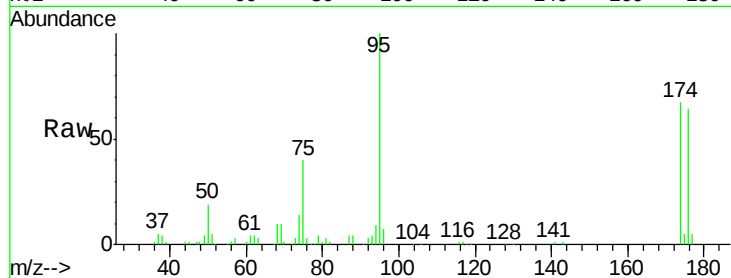
Tot Ion: 75 Resp: 86355

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

