

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062718\
 Data File : VD059444.D
 Acq On : 27 Jun 2018 15:02
 Operator : VA/AP
 Sample : J3629-07
 Misc : 5.65g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 28 02:58:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D062518S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 07:29:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	571010	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	787694	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	472188	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	121176	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.02	65	272111	46.60	ug/l	0.00
Spiked Amount			Recovery	=	93.20%	
35) Dibromofluoromethane	5.55	113	277739	43.29	ug/l	0.00
Spiked Amount			Recovery	=	86.58%	
50) Toluene-d8	8.71	98	480553	32.04	ug/l	0.00
Spiked Amount			Recovery	=	64.08%	
62) 4-Bromofluorobenzene	11.93	95	135452	21.71	ug/l	0.00
Spiked Amount			Recovery	=	43.42%	

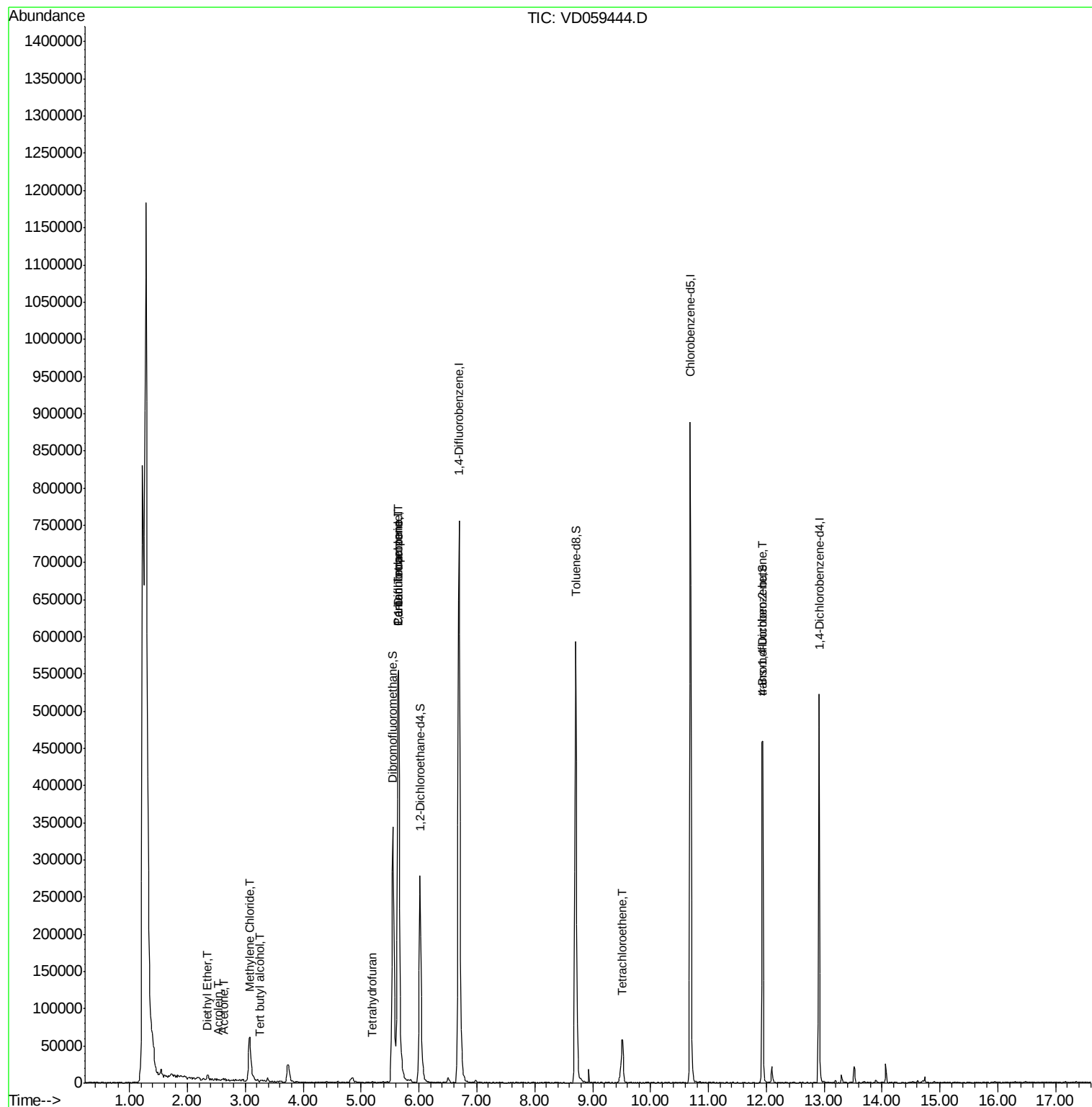
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.86	94	215	Below Cal	#	4
8) Diethyl Ether	2.35	74	1697	1.896	ug/l	55
11) Tert butyl alcohol	3.26	59	293	1.450	ug/l #	72
13) Acrolein	2.53	56	184	1.019	ug/l #	16
16) Acetone	2.62	43	3962	5.376	ug/l	99
18) Methyl Acetate	2.94	43	747	Below Cal	#	66
20) Methylene Chloride	3.08	84	31576	13.635	ug/l	98
29) Tetrahydrofuran	5.20	42	1377	1.631	ug/l #	51
31) Cyclohexane	5.65	56	14047	Below Cal	#	15
36) 1,1-Dichloropropene	5.64	75	48339	6.765	ug/l #	48
38) Carbon Tetrachloride	5.64	117	45888	6.229	ug/l #	15
64) Tetrachloroethene	9.52	164	18134	4.378	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.93	75	63763	167.841	ug/l #	1

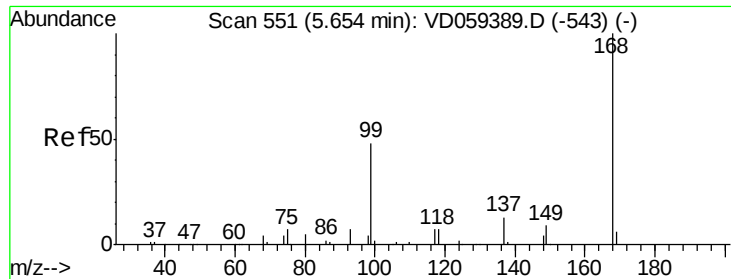
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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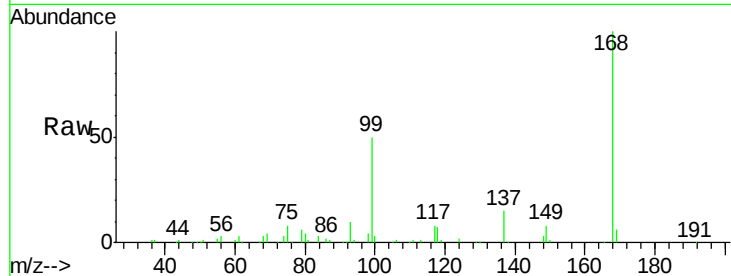




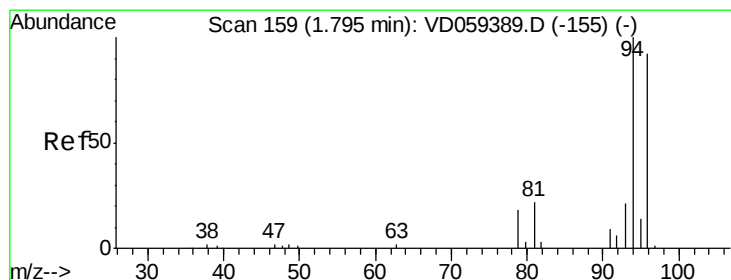
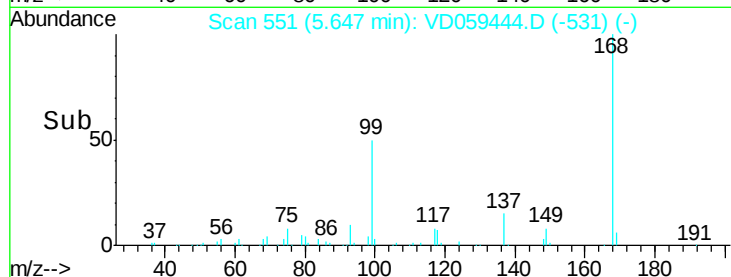
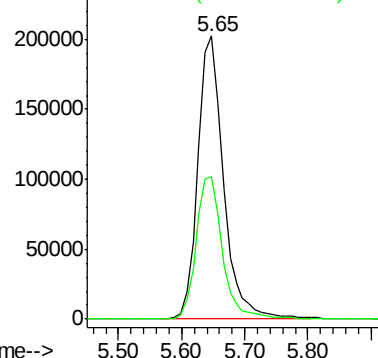
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 551
Delta R.T. -0.01 min
Lab File: VD059444.D
Acq: 27 Jun 2018 15:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 571010
Ion Ratio Lower Upper
168 100
99 50.4 41.0 61.6

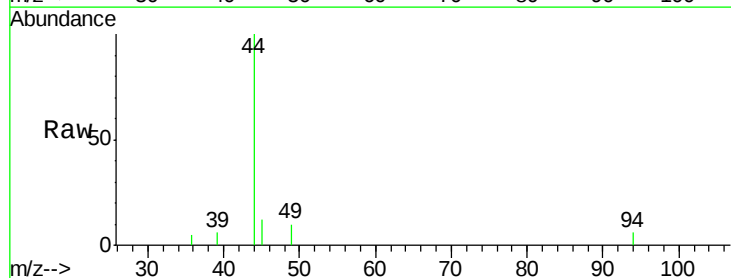


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.95 (98.65 to 99.65): VDC

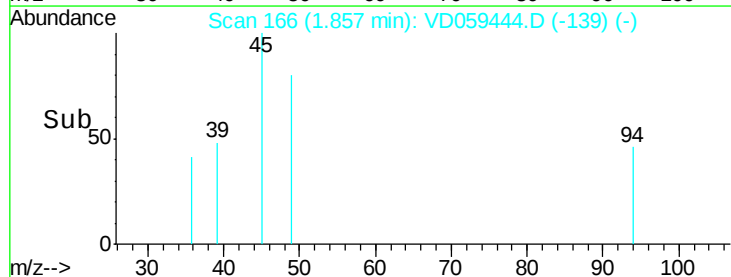
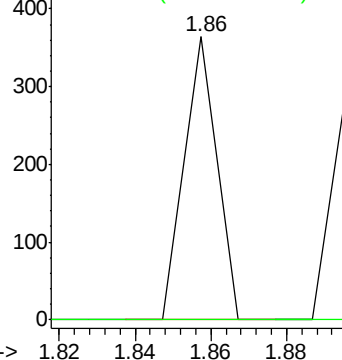


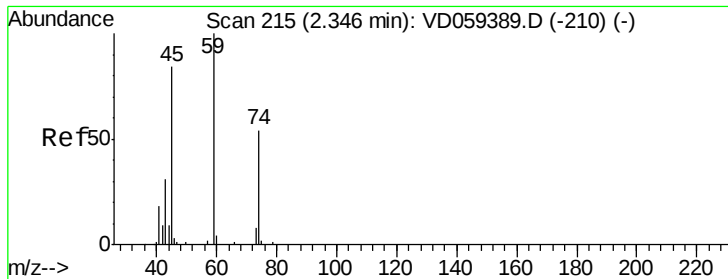
#5
Bromomethane
Concen: Below Cal
RT: 1.86 min Scan# 166
Delta R.T. 0.06 min
Lab File: VD059444.D
Acq: 27 Jun 2018 15:02

Tgt Ion: 94 Resp: 215
Ion Ratio Lower Upper
94 100
96 0.0 73.4 110.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC
Ion 95.90 (95.60 to 96.60): VDC





#8

Diethyl Ether

Concen: 1.896 ug/l

RT: 2.35 min Scan# 216

Delta R.T. 0.00 min

Lab File: VD059444.D

Acq: 27 Jun 2018 15:02

Instrument :

MSVOA_D

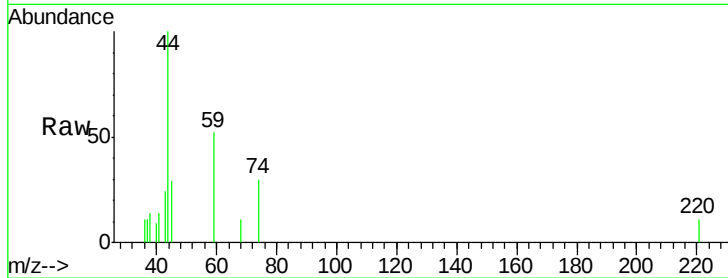
ClientSampleId :

Tot Ion: 74 Resp: 1697

Ion Ratio Lower Upper

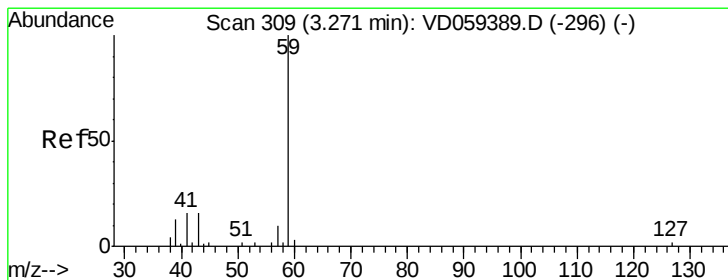
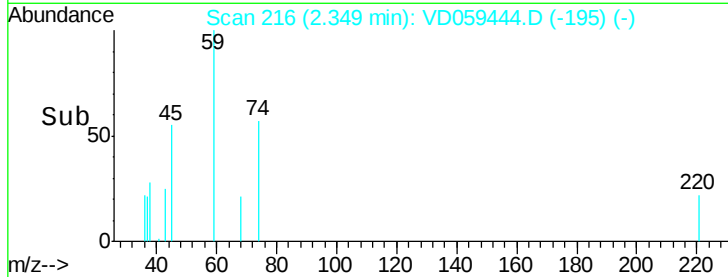
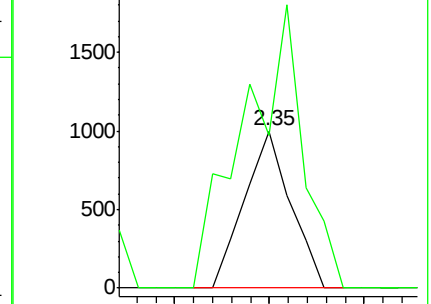
74 100

45 96.9 78.0 233.8



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 1.450 ug/l

RT: 3.26 min Scan# 308

Delta R.T. -0.02 min

Lab File: VD059444.D

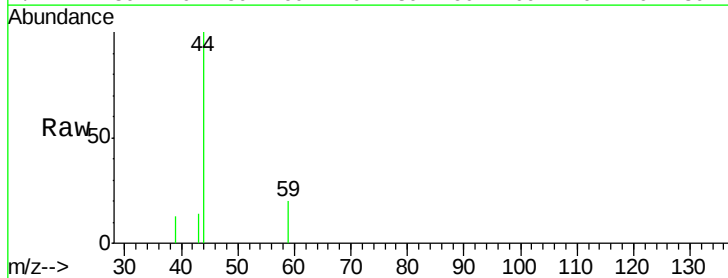
Acq: 27 Jun 2018 15:02

Tgt Ion: 59 Resp: 293

Ion Ratio Lower Upper

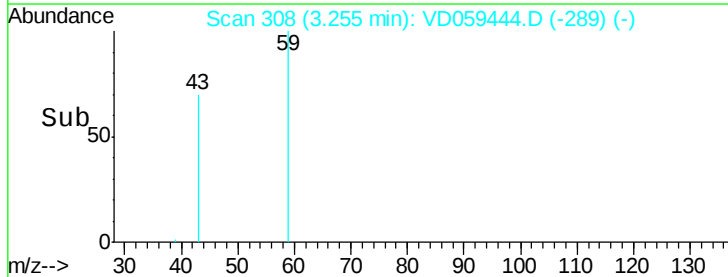
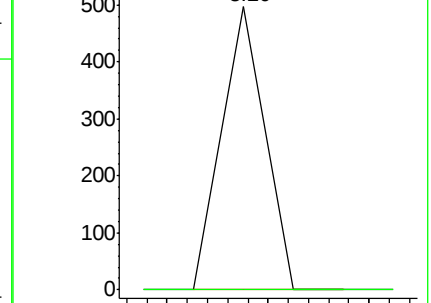
59 100

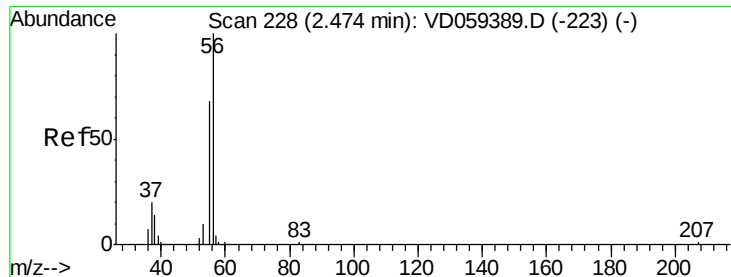
57 0.0 8.3 12.5#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.019 ug/l

RT: 2.53 min Scan# 234

Delta R.T. 0.05 min

Lab File: VD059444.D

Acq: 27 Jun 2018 15:02

Instrument :

MSVOA_D

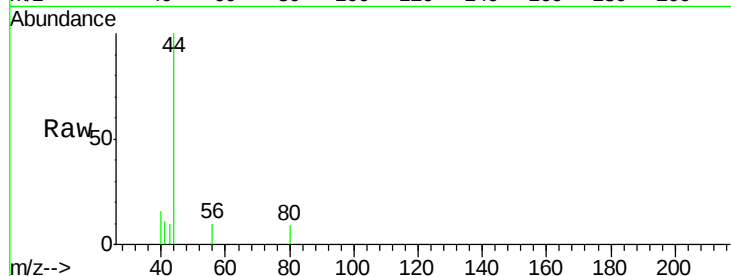
ClientSampled :

Tot Ion: 56 Resp: 184

Ion Ratio Lower Upper

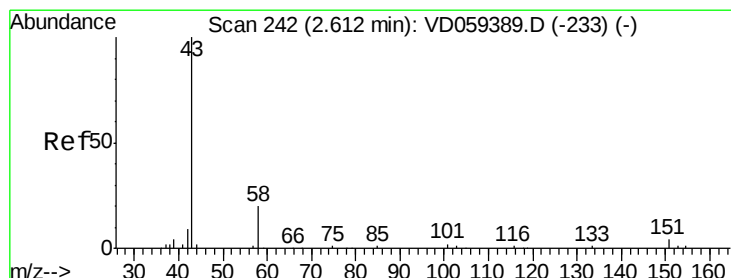
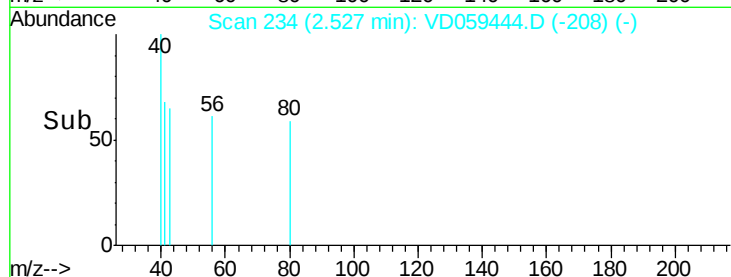
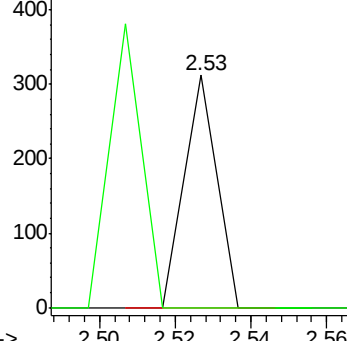
56 100

55 0.0 54.6 82.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 5.376 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.00 min

Lab File: VD059444.D

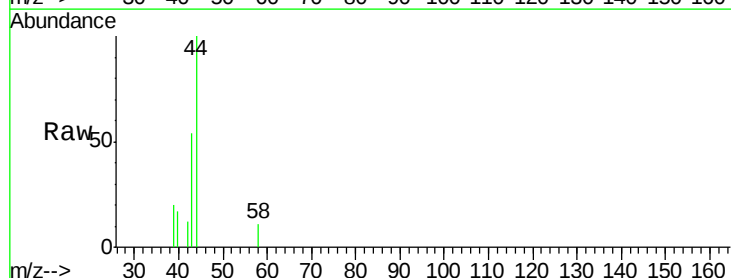
Acq: 27 Jun 2018 15:02

Tgt Ion: 43 Resp: 3962

Ion Ratio Lower Upper

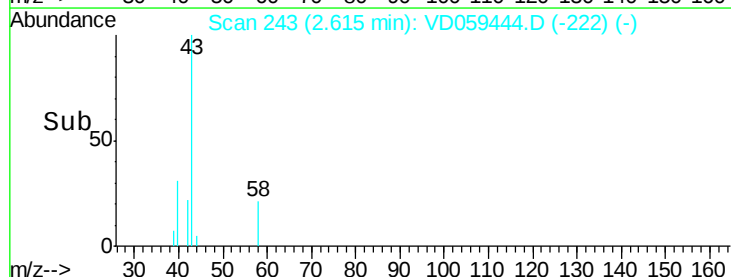
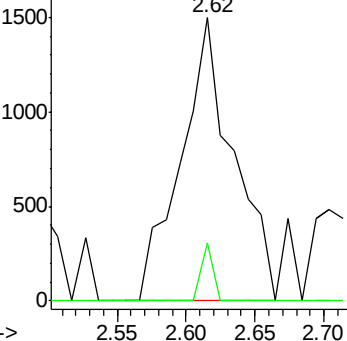
43 100

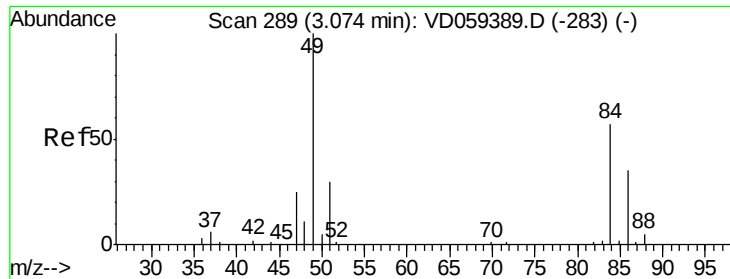
58 20.7 16.8 25.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

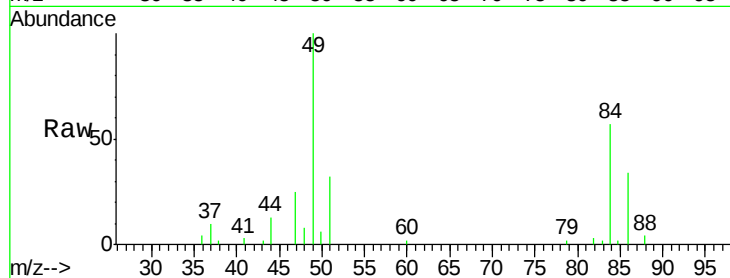




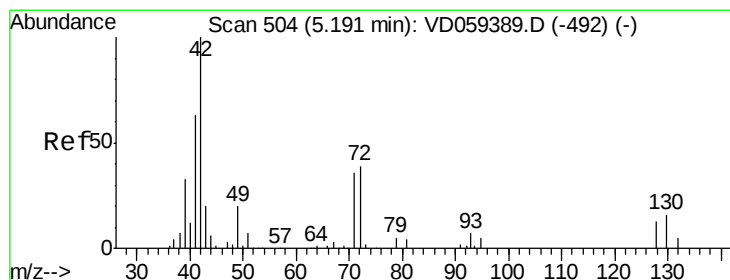
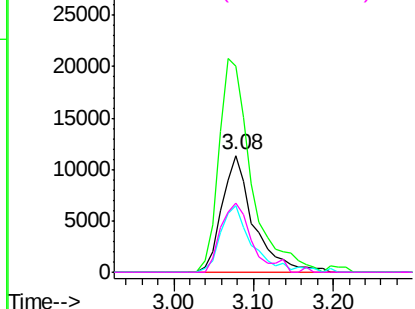
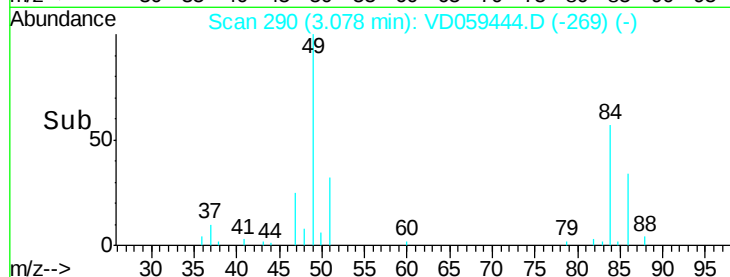
#20
Methvlene Chloride
Concen: 13.635 ug/l
RT: 3.08 min Scan# 290
Delta R.T. 0.00 min
Lab File: VD059444.D
Acq: 27 Jun 2018 15:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 31576
Ion Ratio Lower Upper
84 100
49 176.6 140.3 210.5
51 57.1 41.6 62.4
86 59.4 49.4 74.2

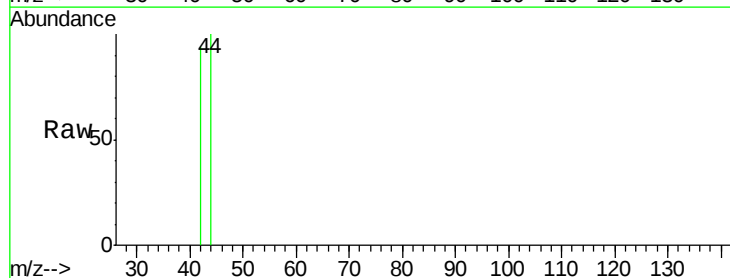


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

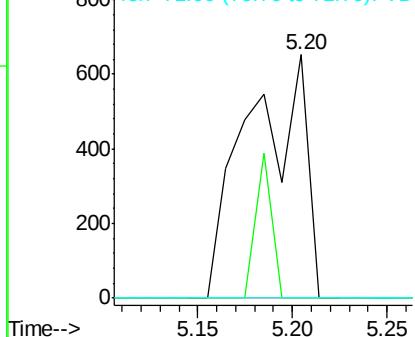
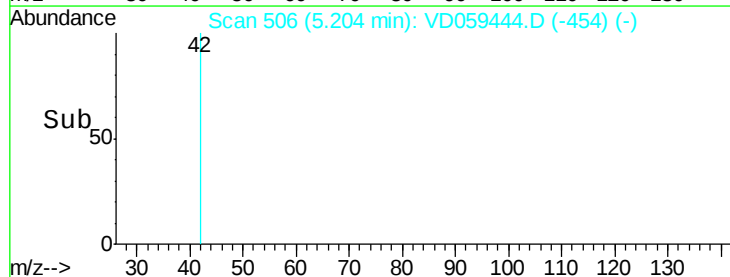


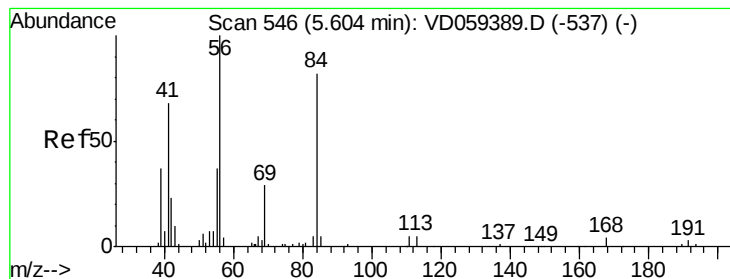
#29
Tetrahydrofuran
Concen: 1.631 ug/l
RT: 5.20 min Scan# 506
Delta R.T. 0.01 min
Lab File: VD059444.D
Acq: 27 Jun 2018 15:02

Tgt Ion: 42 Resp: 1377
Ion Ratio Lower Upper
42 100
72 16.7 31.4 47.2#
71 0.0 29.7 44.5#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: Below Cal

RT: 5.65 min Scan# 551

Delta R.T. 0.04 min

Lab File: VD059444.D

Acq: 27 Jun 2018 15:02

Instrument :
MSVOA_D
ClientSampleId :

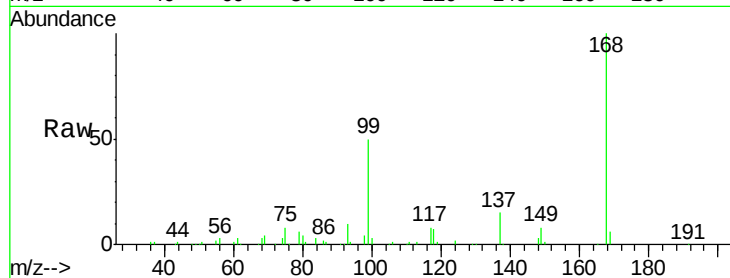
Tot Ion: 56 Resp: 14047

Ion Ratio Lower Upper

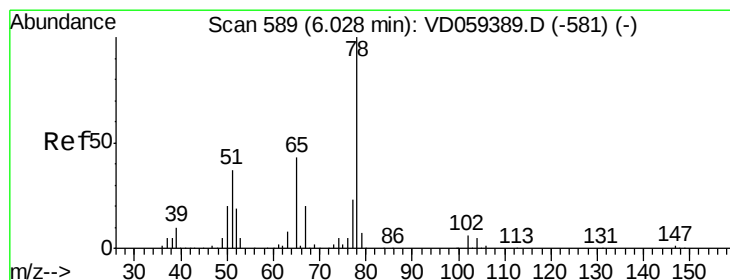
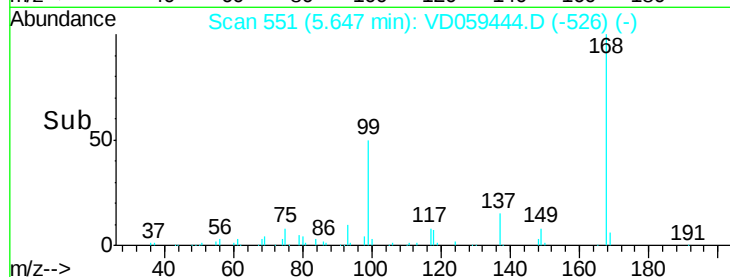
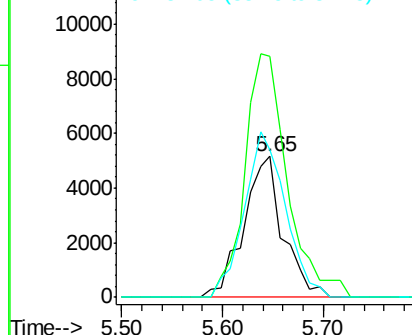
56 100

69 171.1 22.9 34.3#

84 104.4 67.3 100.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.02 min Scan# 589

Delta R.T. -0.01 min

Lab File: VD059444.D

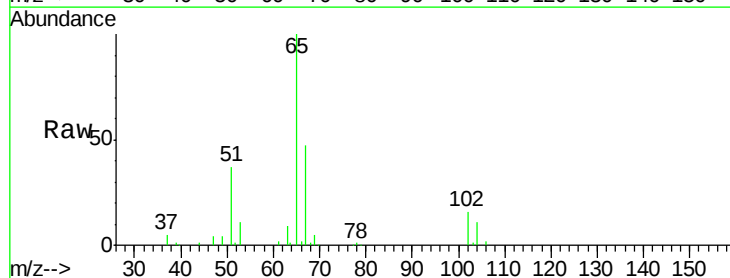
Acq: 27 Jun 2018 15:02

Tgt Ion: 65 Resp: 272111

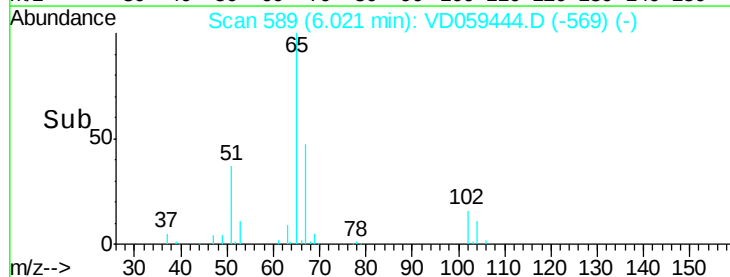
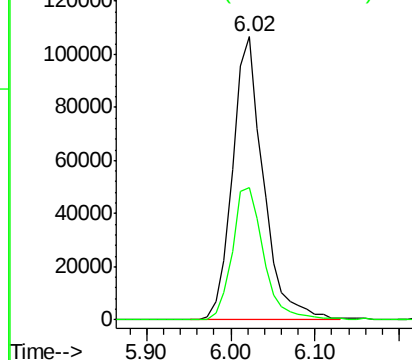
Ion Ratio Lower Upper

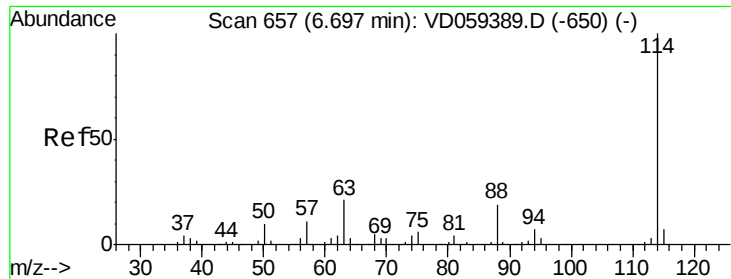
65 100

67 46.7 0.0 93.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

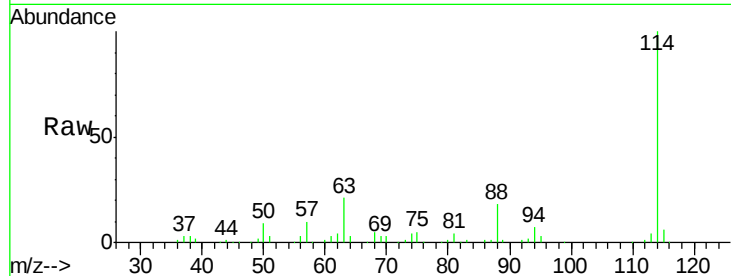




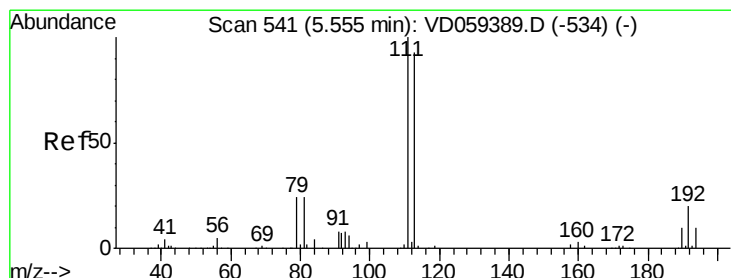
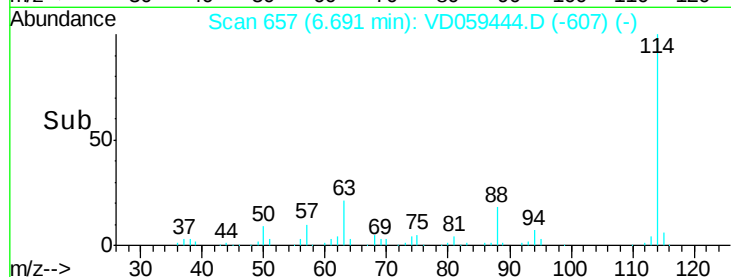
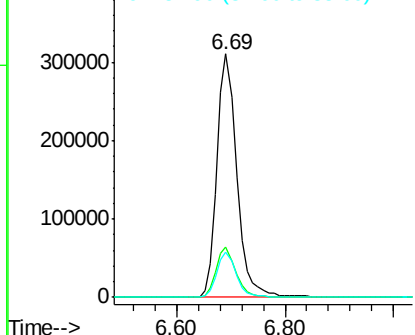
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 657
 Delta R.T. -0.01 min
 Lab File: VD059444.D
 Acq: 27 Jun 2018 15:02

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 787694
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.4
 88 18.4 0.0 38.0

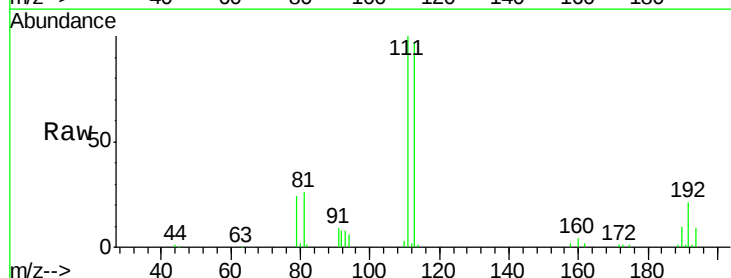


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

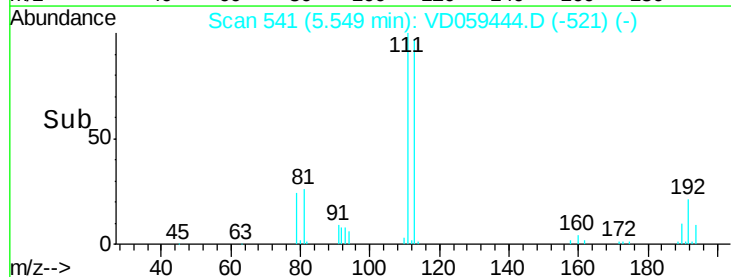
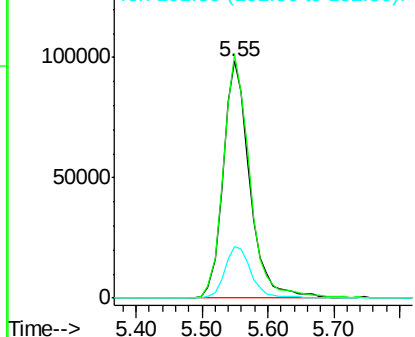


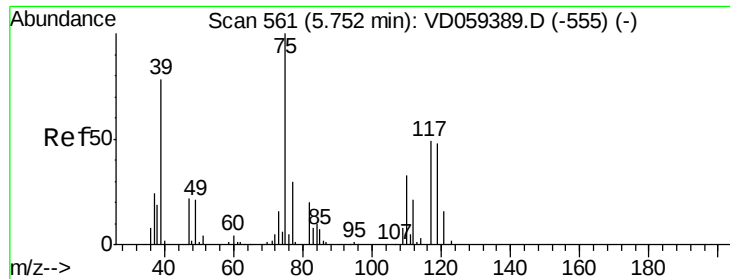
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.55 min Scan# 541
 Delta R.T. -0.01 min
 Lab File: VD059444.D
 Acq: 27 Jun 2018 15:02

Tgt Ion:113 Resp: 277739
 Ion Ratio Lower Upper
 113 100
 111 102.9 85.7 128.5
 192 21.9 16.9 25.3



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: 6.765 ug/l

RT: 5.64 min Scan# 550

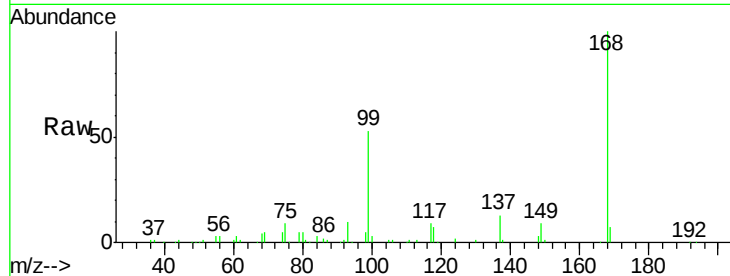
Delta R.T. -0.11 min

Lab File: VD059444.D

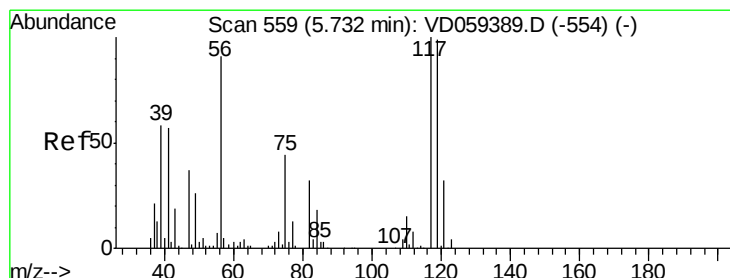
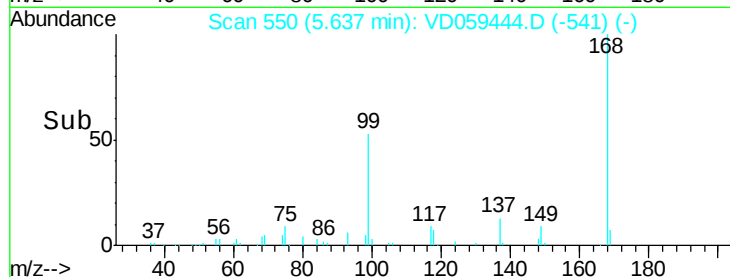
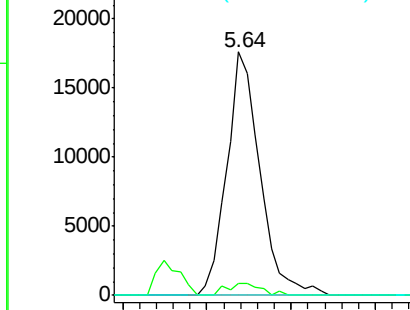
Acq: 27 Jun 2018 15:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 75 Resp: 48339
Ion Ratio Lower Upper
75 100
110 4.9 16.1 48.2#
77 0.0 23.4 35.2#



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



#38

Carbon Tetrachloride

Concen: 6.229 ug/l

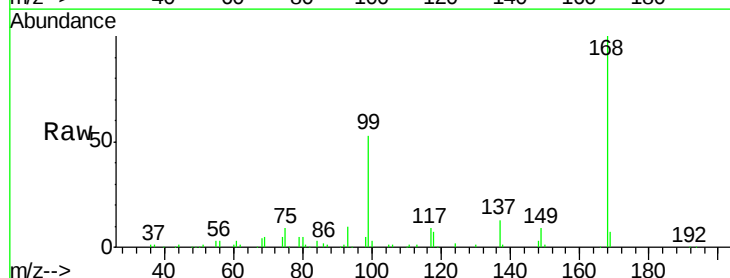
RT: 5.64 min Scan# 550

Delta R.T. -0.09 min

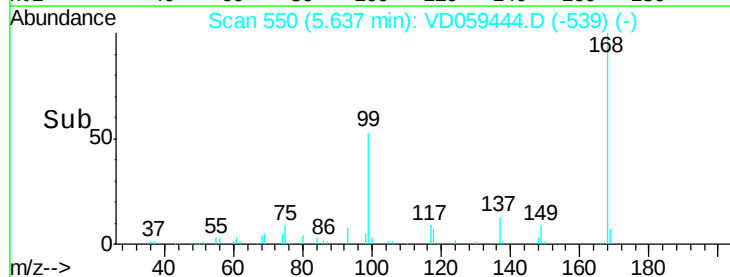
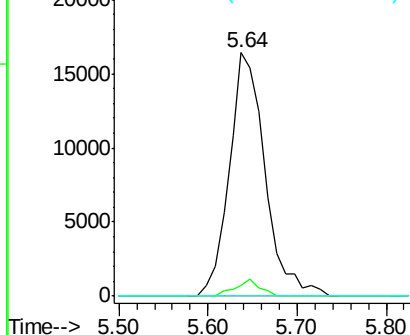
Lab File: VD059444.D

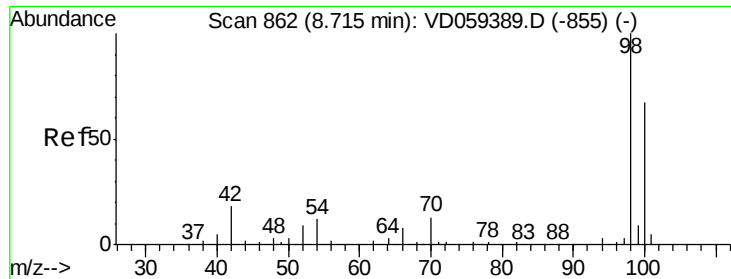
Acq: 27 Jun 2018 15:02

Tgt Ion: 117 Resp: 45888
Ion Ratio Lower Upper
117 100
119 4.3 76.6 115.0#
121 0.0 25.0 37.4#



Abundance Ion 116.85 (116.55 to 117.55): VDC
Ion 118.85 (118.55 to 119.55): VDC
Ion 120.85 (120.55 to 121.55): VDC

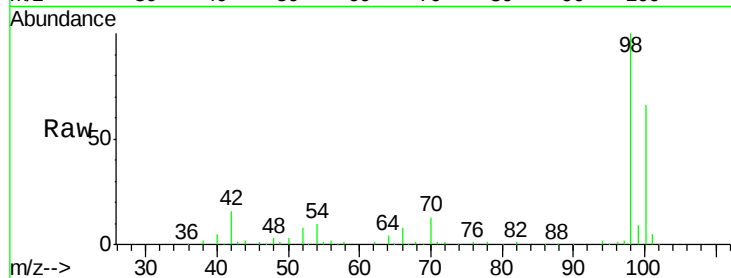




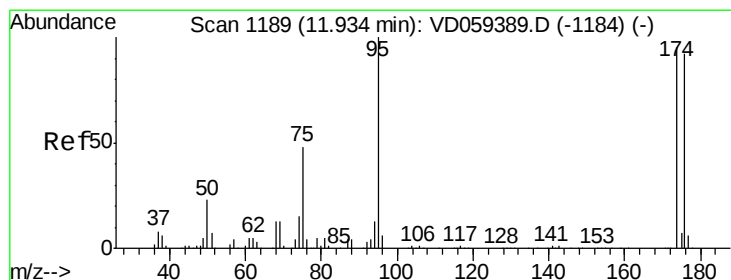
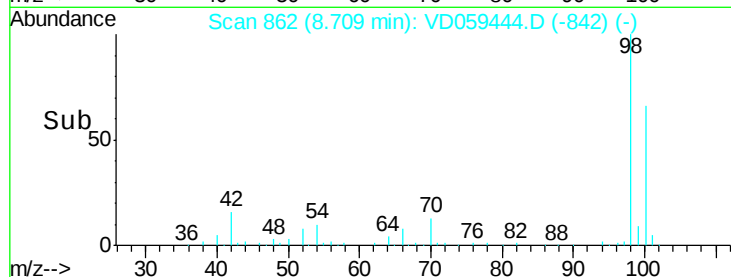
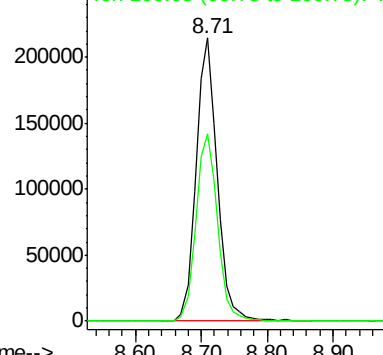
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.71 min Scan# 862
Delta R.T. -0.01 min
Lab File: VD059444.D
Acq: 27 Jun 2018 15:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 480553
Ion Ratio Lower Upper
98 100
100 66.2 54.4 81.6

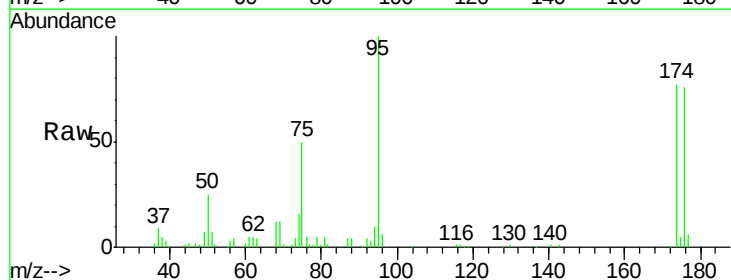


Abundance Ion 98.05 (97.75 to 98.75): VD0
Ion 100.05 (99.75 to 100.75): VD

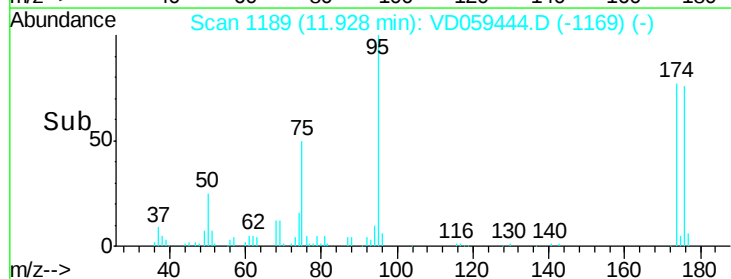
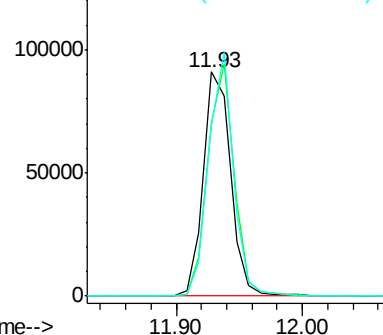


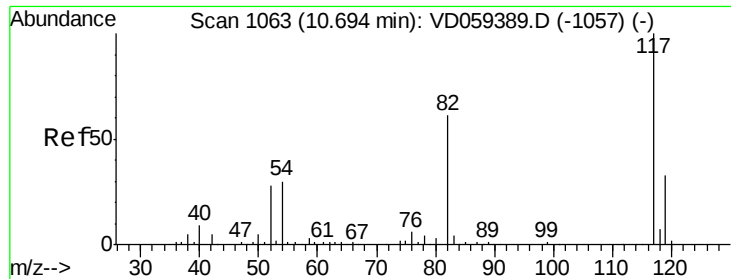
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1189
Delta R.T. -0.01 min
Lab File: VD059444.D
Acq: 27 Jun 2018 15:02

Tgt Ion: 95 Resp: 135452
Ion Ratio Lower Upper
95 100
174 77.2 0.0 190.4
176 76.3 0.0 183.2



Abundance Ion 95.00 (94.70 to 95.70): VD0
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.69 min Scan# 1063

Delta R.T. -0.01 min

Lab File: VD059444.D

Acq: 27 Jun 2018 15:02

Instrument :

MSVOA_D

ClientSampleId :

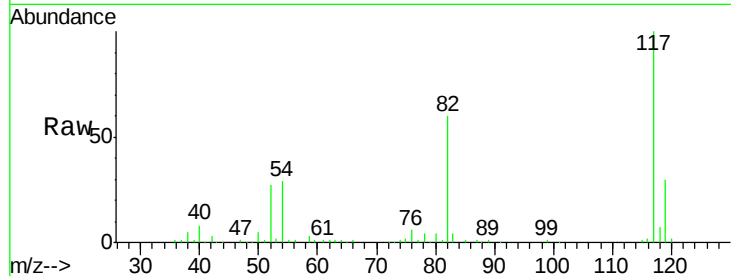
Tot Ion:117 Resp: 472188

Ion Ratio Lower Upper

117 100

82 59.6 49.0 73.6

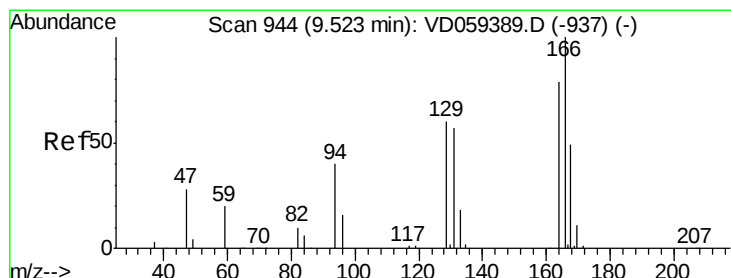
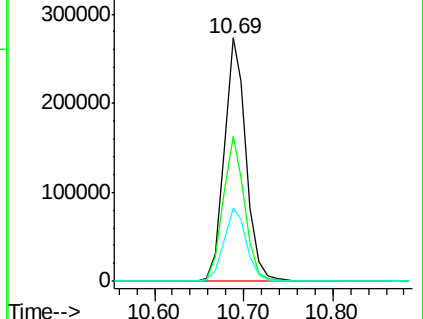
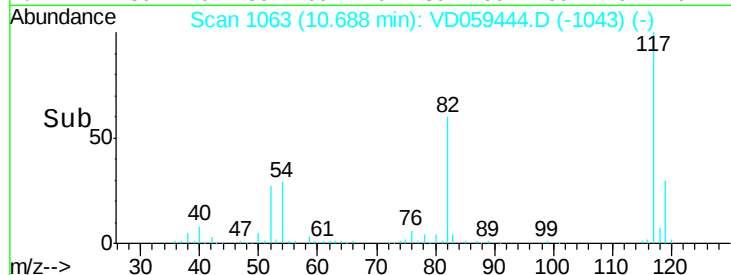
119 30.2 26.2 39.4



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



#64

Tetrachloroethene

Concen: 4.378 ug/l

RT: 9.52 min Scan# 944

Delta R.T. -0.01 min

Lab File: VD059444.D

Acq: 27 Jun 2018 15:02

Tgt Ion:164 Resp: 18134

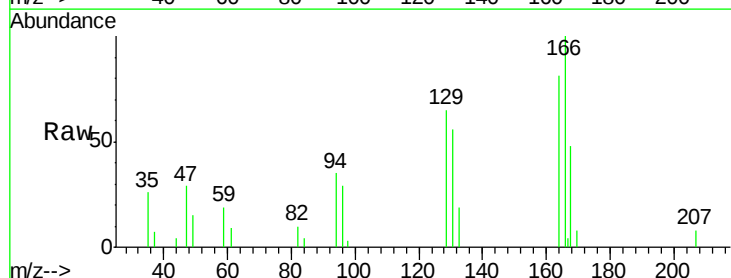
Ion Ratio Lower Upper

164 100

166 123.7 101.4 152.2

129 80.4 60.9 91.3

131 69.4 58.2 87.4

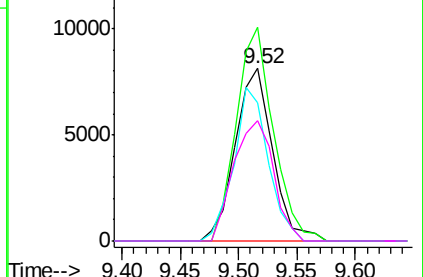
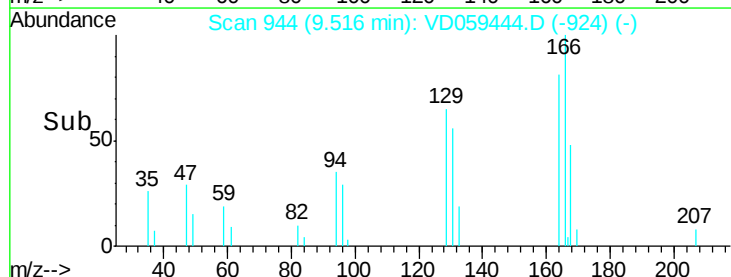


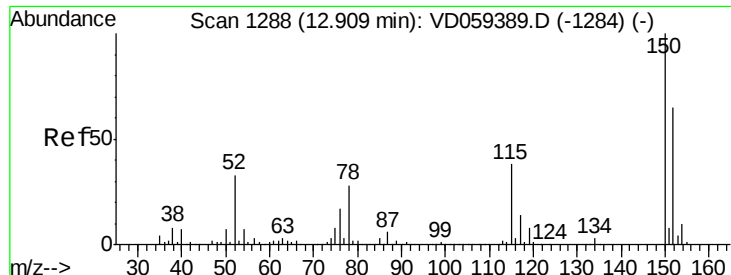
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



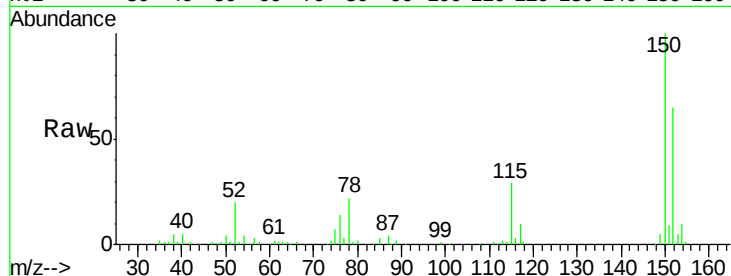


#72

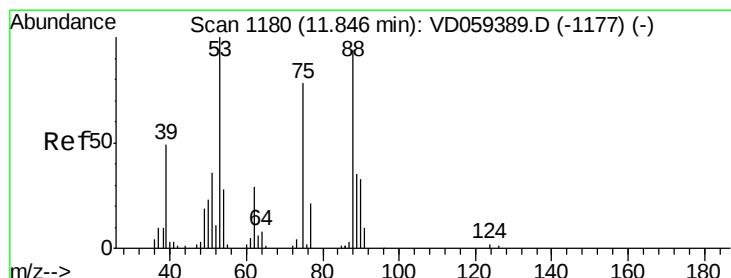
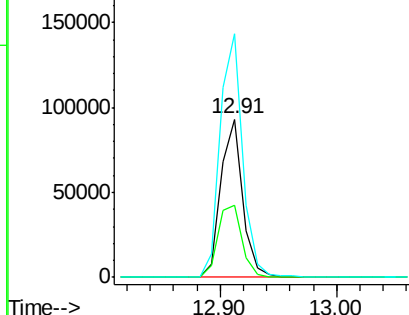
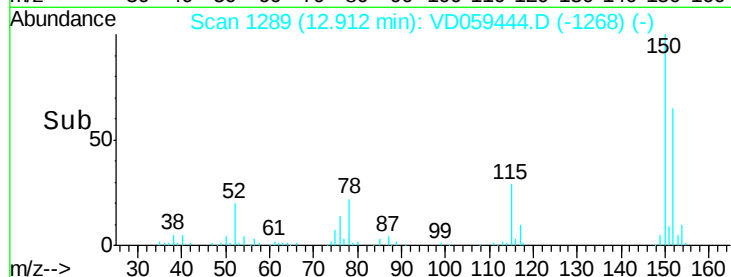
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VD059444.D
Acq: 27 Jun 2018 15:02

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:152 Resp: 121176
Ion Ratio Lower Upper
152 100
115 45.3 29.4 88.3
150 154.3 0.0 308.2



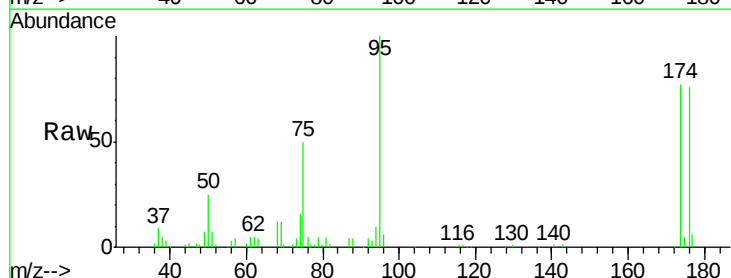
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene
Concen: 167.841 ug/l
RT: 11.93 min Scan# 1189
Delta R.T. 0.08 min
Lab File: VD059444.D
Acq: 27 Jun 2018 15:02

Tgt Ion: 75 Resp: 63763
Ion Ratio Lower Upper
75 100
53 0.0 102.6 154.0#
89 0.0 35.9 53.9#



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

