

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062618\
 Data File : VD059430.D
 Acq On : 26 Jun 2018 18:17
 Operator : VA/AP
 Sample : J3676-05
 Misc : 4.84g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 27 05:52:44 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	5.64	168	28181	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.69	114	48348	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.68	117	38674	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	17175	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	28012	97.20	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	194.40%	
35) Dibromofluoromethane	5.54	113	19633	49.85	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	99.70%	
50) Toluene-d8	8.70	98	28880	31.37	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	62.74%	
62) 4-Bromofluorobenzene	11.92	95	13249	34.60	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	69.20%	

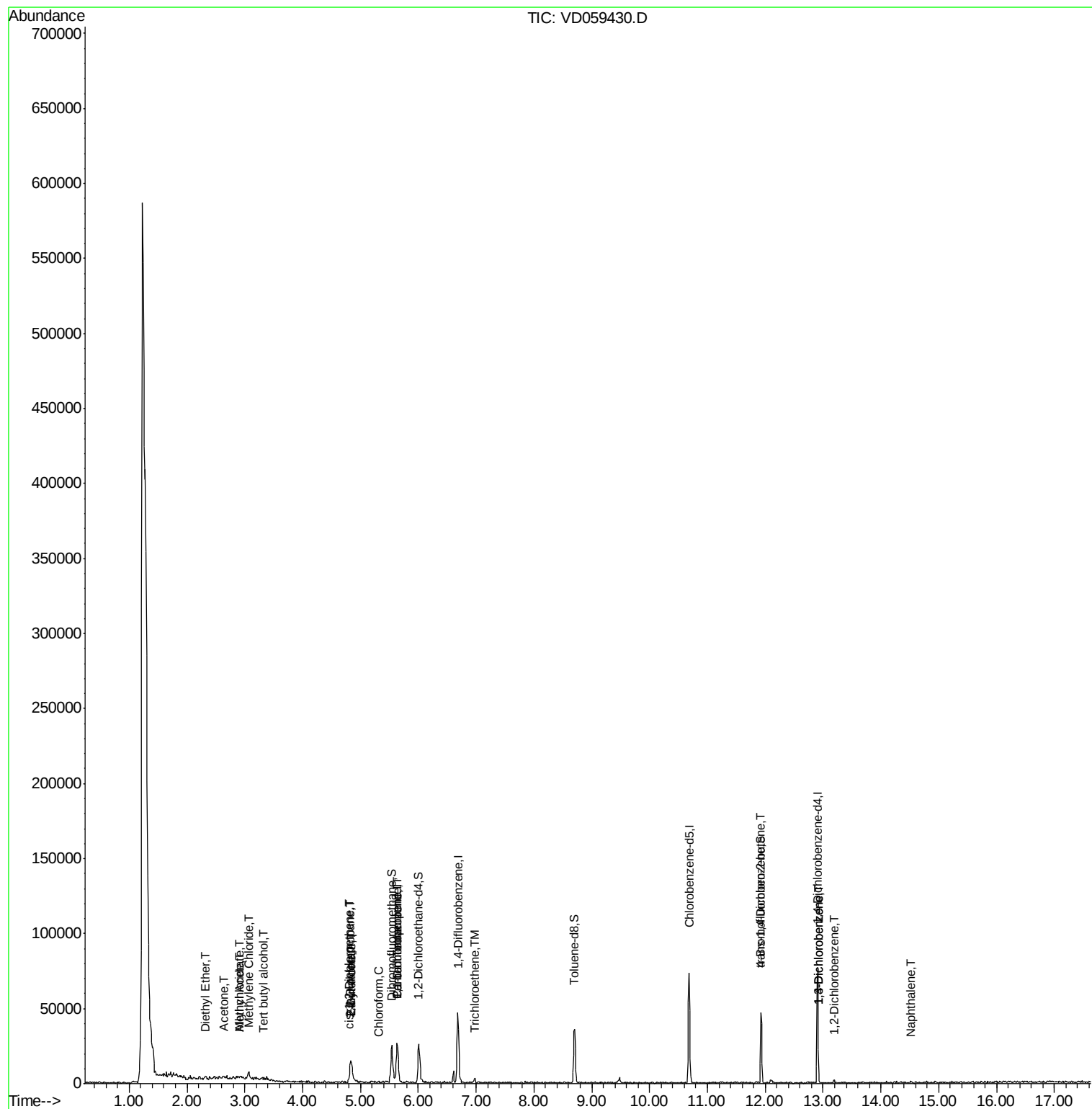
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.32	74	231	5.231	ug/l #	1
11) Tert butyl alcohol	3.33	59	182	18.255	ug/l #	72
14) Allyl chloride	2.93	41	233	1.096	ug/l #	76
16) Acetone	2.63	43	1506	41.405	ug/l #	55
18) Methyl Acetate	2.92	43	1161	12.295	ug/l #	66
20) Methylene Chloride	3.07	84	1942	17.637	ug/l #	60
25) 2-Butanone	4.85	43	1141	14.975	ug/l #	57
26) 2,2-Dichloropropane	4.82	77	542	1.527	ug/l #	55
27) cis-1,2-Dichloroethene	4.80	96	701	2.541	ug/l #	1
30) Chloroform	5.32	83	1061	2.127	ug/l #	20
31) Cyclohexane	5.62	56	421	Below Cal	#	17
36) 1,1-Dichloropropene	5.63	75	1822	4.154	ug/l #	44
37) Ethyl Acetate	4.85	43	1141	4.272	ug/l #	69
38) Carbon Tetrachloride	5.63	117	1882	4.162	ug/l #	12
44) Trichloroethene	6.97	130	995	2.887	ug/l	61
81) trans-1,4-Dichloro-2-buten	11.92	75	6845	127.122	ug/l #	1
87) 1,3-Dichlorobenzene	12.93	146	890	1.773	ug/l	77
88) 1,4-Dichlorobenzene	12.93	146	890	1.797	ug/l	76
91) 1,2-Dichlorobenzene	13.19	146	610	1.434	ug/l	91
95) Naphthalene	14.51	128	1225	2.234	ug/l #	71

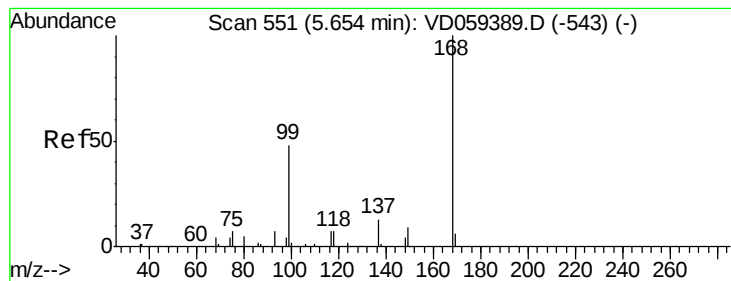
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jun 25 07:29:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD059430.D

Acq: 26 Jun 2018 18:17

Instrument :

MSVOA_D

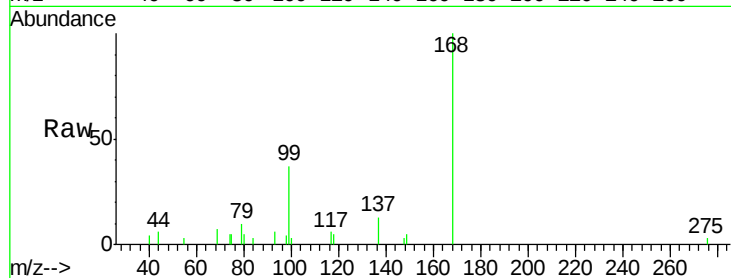
ClientSampled :

Tot Ion:168 Resp: 28181

Ion Ratio Lower Upper

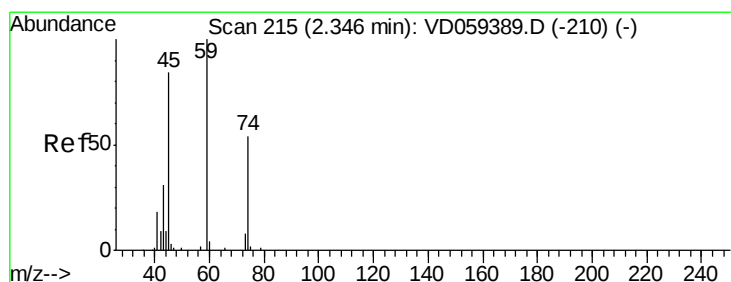
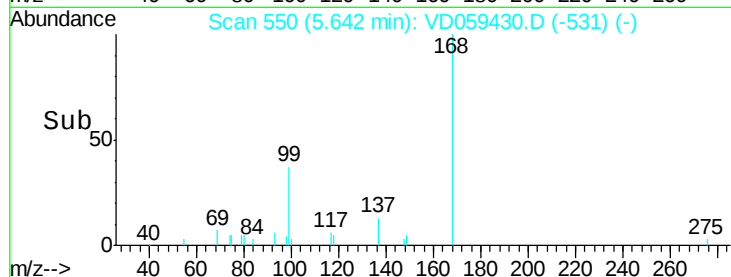
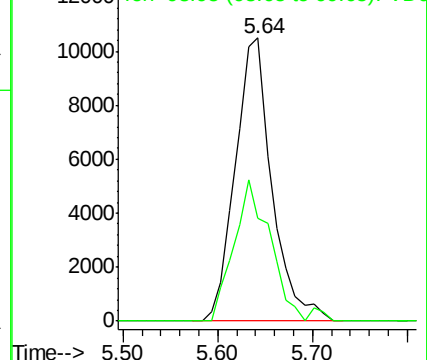
168 100

99 36.6 41.0 61.6#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 5.231 ug/l

RT: 2.32 min Scan# 212

Delta R.T. -0.03 min

Lab File: VD059430.D

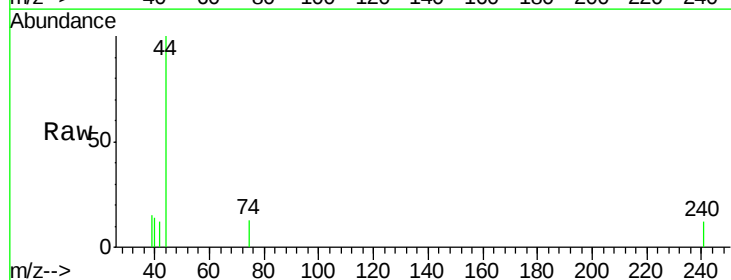
Acq: 26 Jun 2018 18:17

Tgt Ion: 74 Resp: 231

Ion Ratio Lower Upper

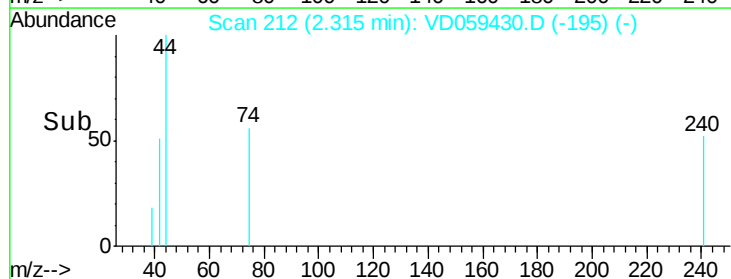
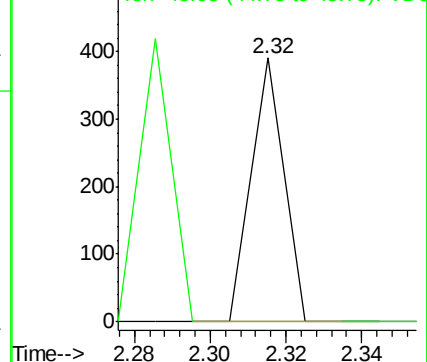
74 100

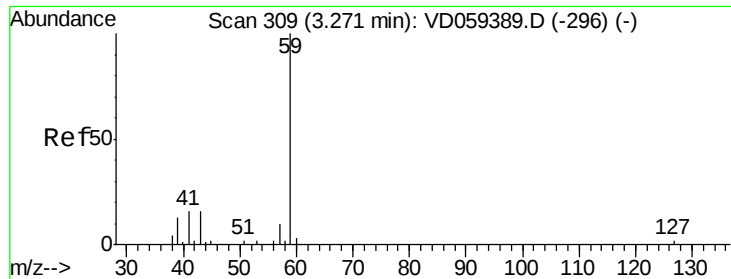
45 0.0 78.0 233.8#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



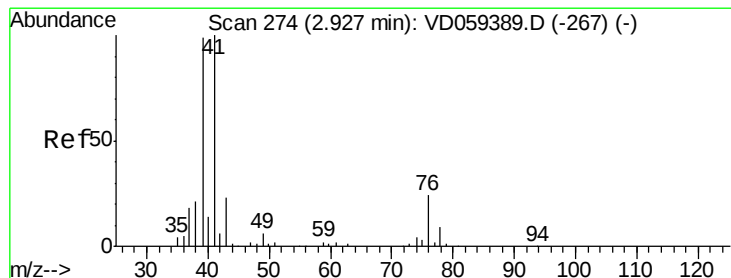
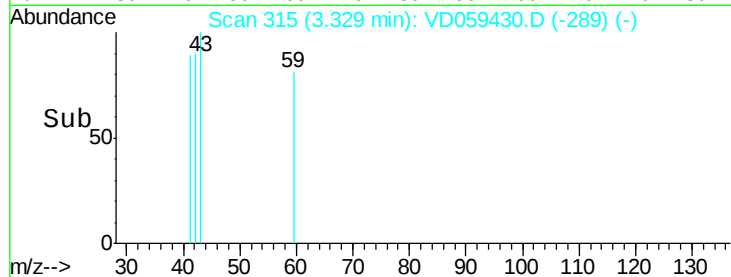
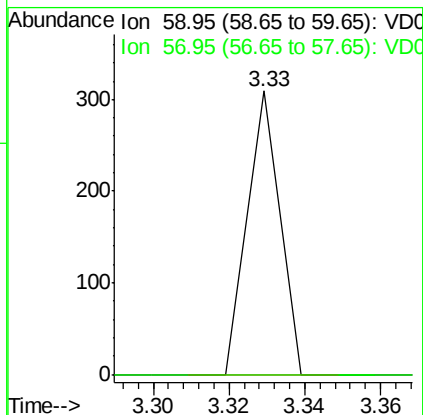
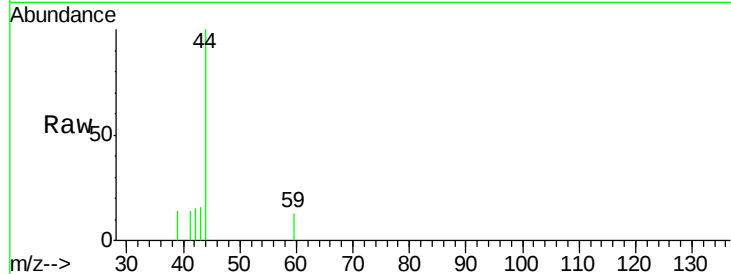


#11

Tert butyl alcohol
Concen: 18.255 ug/l
RT: 3.33 min Scan# 315
Delta R.T. 0.06 min
Lab File: VD059430.D
Acq: 26 Jun 2018 18:17

Instrument :
MSVOA_D
ClientSampleId :

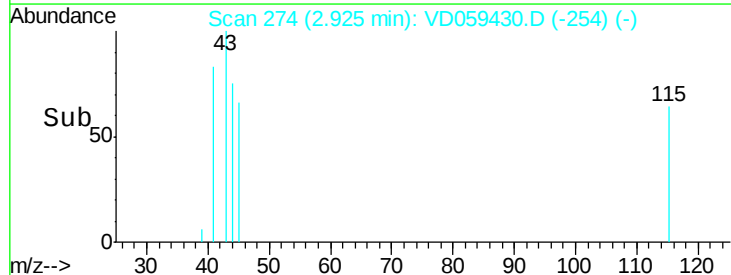
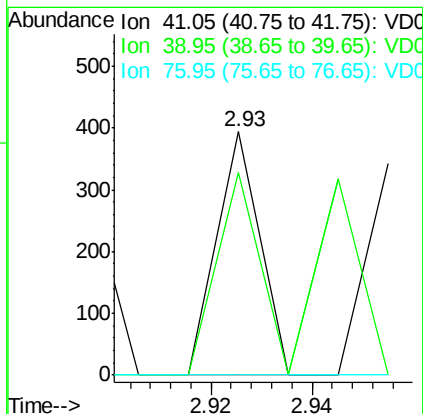
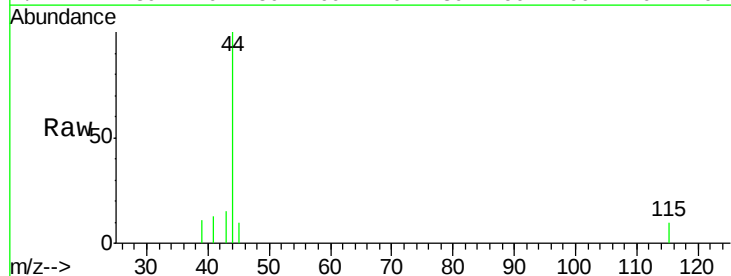
Tot Ion: 59 Resp: 182
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

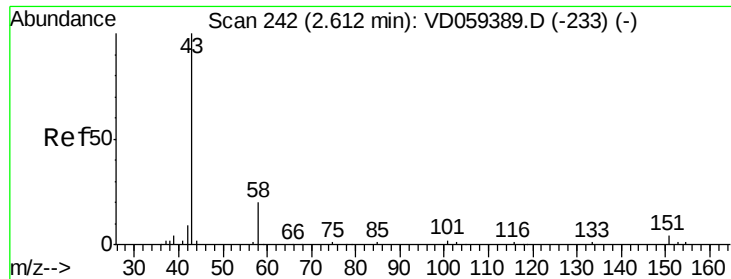


#14

Allyl chloride
Concen: 1.096 ug/l
RT: 2.93 min Scan# 274
Delta R.T. -0.00 min
Lab File: VD059430.D
Acq: 26 Jun 2018 18:17

Tgt Ion: 41 Resp: 233
Ion Ratio Lower Upper
41 100
39 83.5 79.1 118.7
76 0.0 21.9 32.9#





#16

Acetone

Concen: 41.405 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD059430.D

Acq: 26 Jun 2018 18:17

Instrument :

MSVOA_D

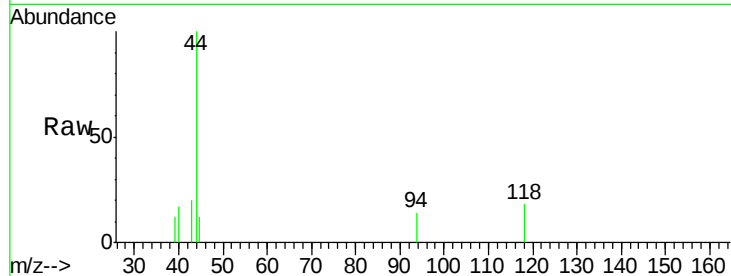
ClientSampleId :

Tot Ion: 43 Resp: 1506

Ion Ratio Lower Upper

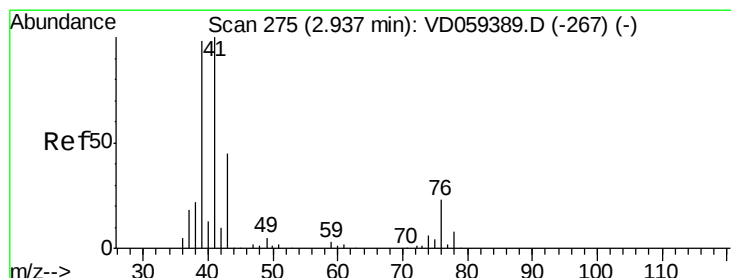
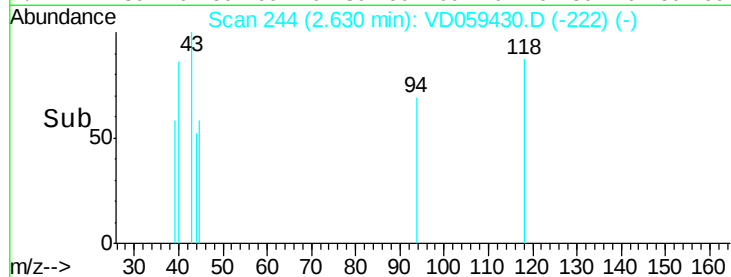
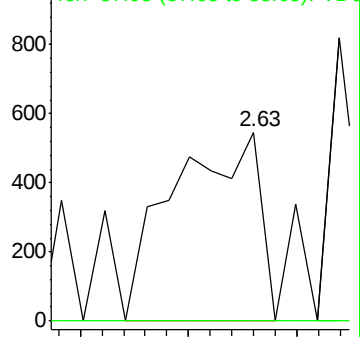
43 100

58 0.0 16.8 25.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 12.295 ug/l

RT: 2.92 min Scan# 273

Delta R.T. -0.02 min

Lab File: VD059430.D

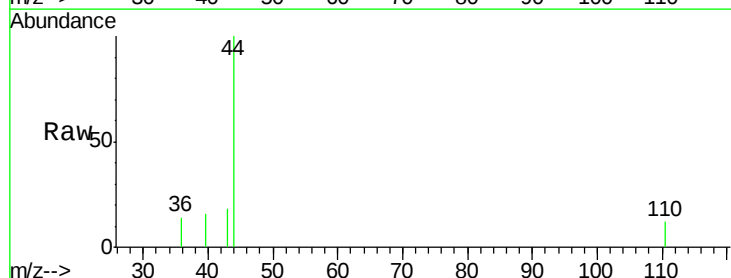
Acq: 26 Jun 2018 18:17

Tgt Ion: 43 Resp: 1161

Ion Ratio Lower Upper

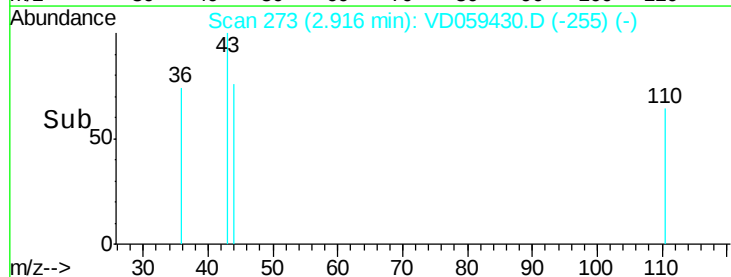
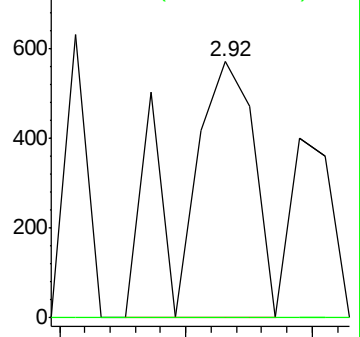
43 100

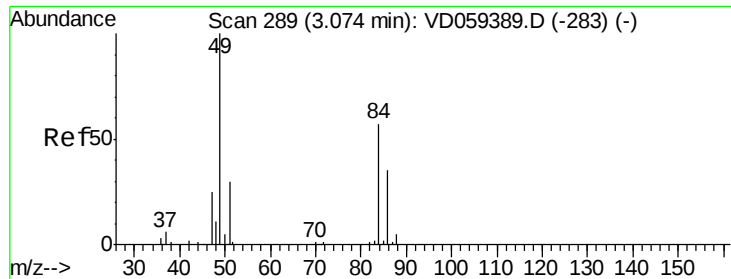
74 0.0 11.0 16.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

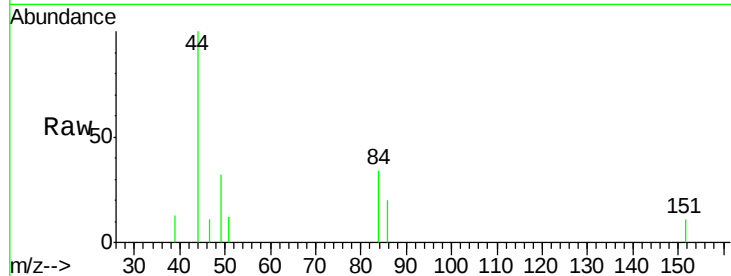




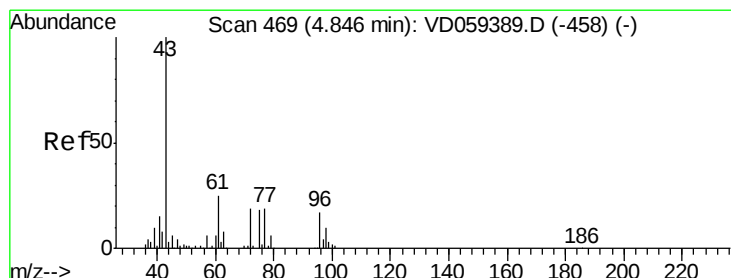
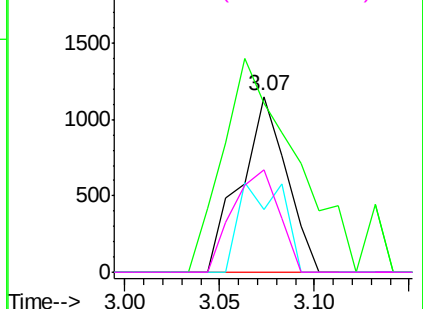
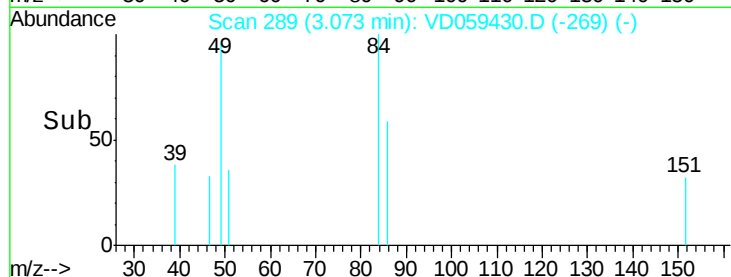
#20
Methvlene Chloride
Concen: 17.637 ug/l
RT: 3.07 min Scan# 289
Delta R.T. -0.00 min
Lab File: VD059430.D
Acq: 26 Jun 2018 18:17

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 1942
Ion Ratio Lower Upper
84 100
49 95.8 140.3 210.5#
51 36.1 41.6 62.4#
86 58.6 49.4 74.2

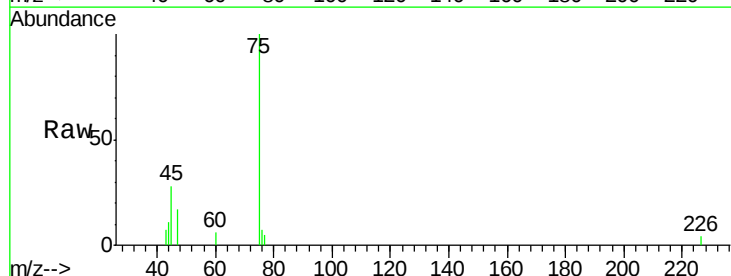


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

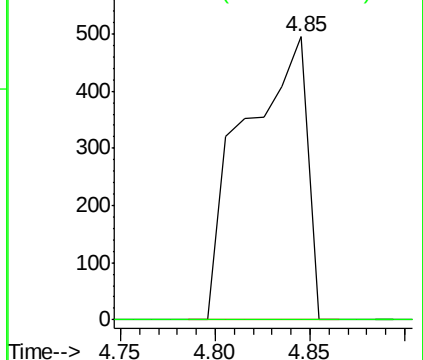
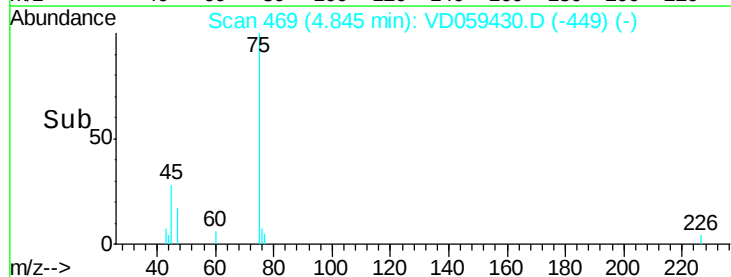


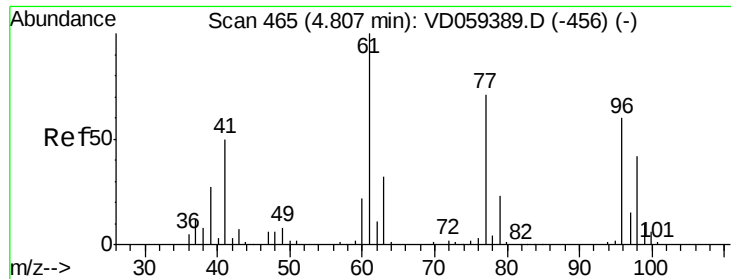
#25
2-Butanone
Concen: 14.975 ug/l
RT: 4.85 min Scan# 469
Delta R.T. -0.00 min
Lab File: VD059430.D
Acq: 26 Jun 2018 18:17

Tgt Ion: 43 Resp: 1141
Ion Ratio Lower Upper
43 100
72 0.0 15.4 23.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: 1.527 ug/l

RT: 4.82 min Scan# 466

Delta R.T. 0.01 min

Lab File: VD059430.D

Acq: 26 Jun 2018 18:17

Instrument :

MSVOA_D

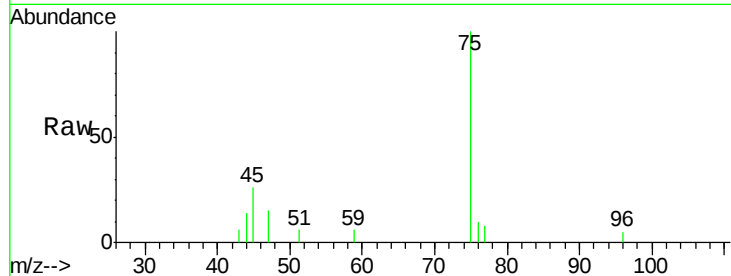
ClientSampleId :

Tot Ion: 77 Resp: 542

Ion Ratio Lower Upper

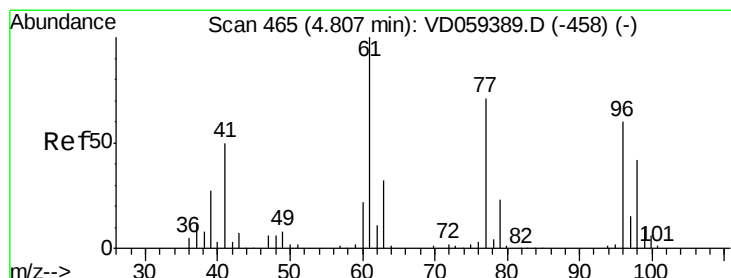
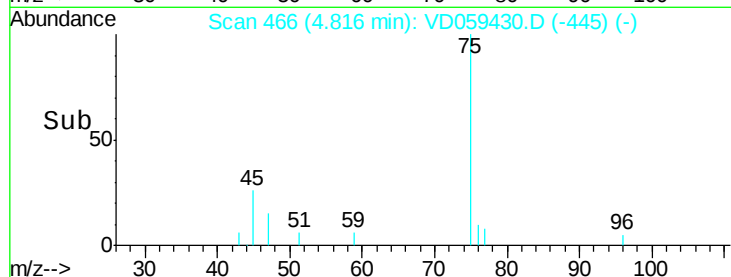
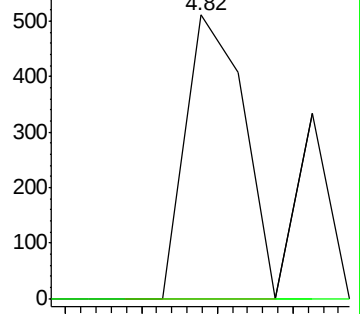
77 100

97 0.0 10.7 32.1#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



#27

cis-1,2-Dichloroethene

Concen: 2.541 ug/l

RT: 4.80 min Scan# 464

Delta R.T. -0.01 min

Lab File: VD059430.D

Acq: 26 Jun 2018 18:17

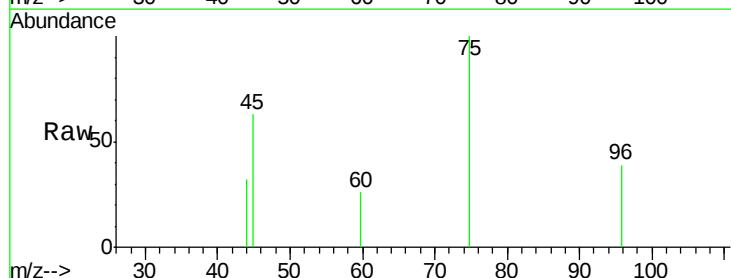
Tgt Ion: 96 Resp: 701

Ion Ratio Lower Upper

96 100

61 0.0 0.0 335.8

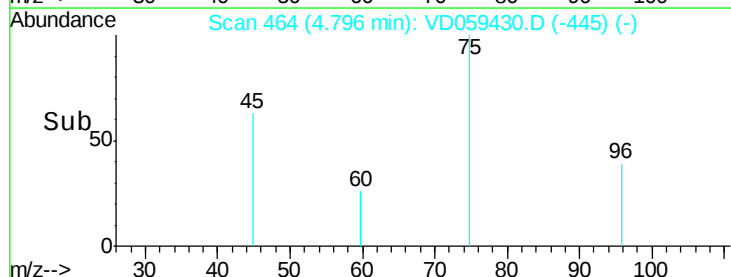
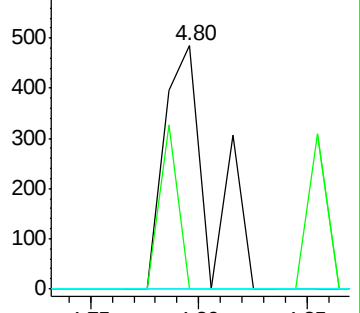
98 0.0 0.0 141.0

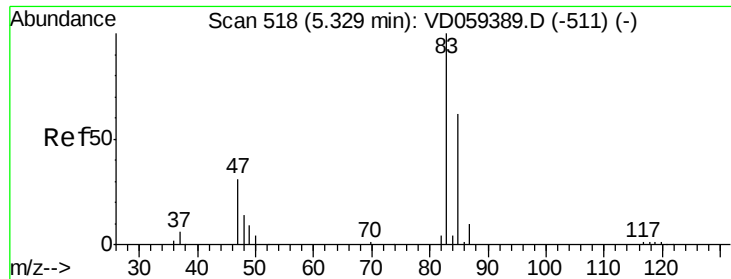


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC

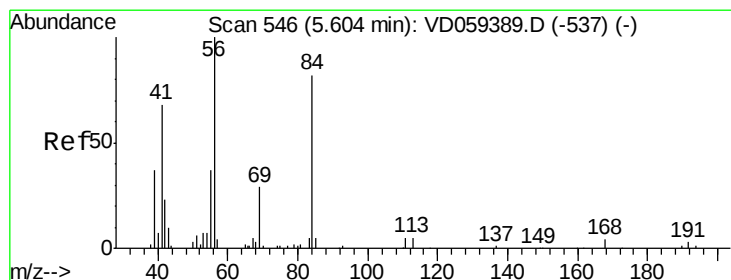
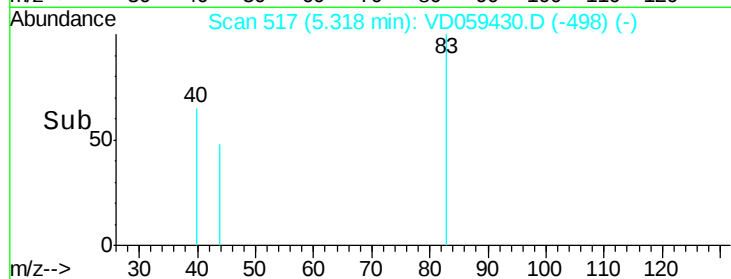
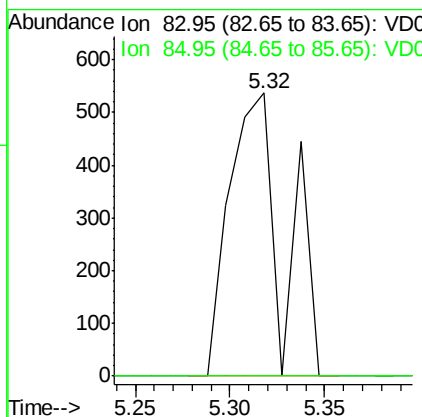
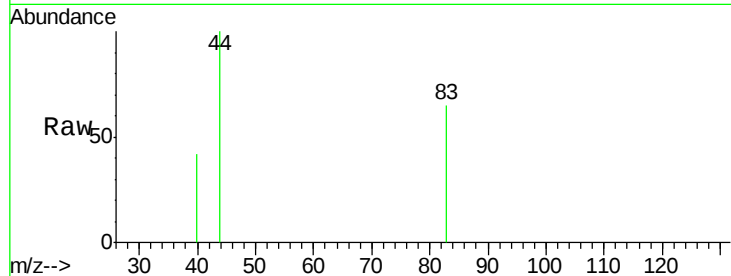




#30
Chloroform
Concen: 2.127 ug/l
RT: 5.32 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD059430.D
Acq: 26 Jun 2018 18:17

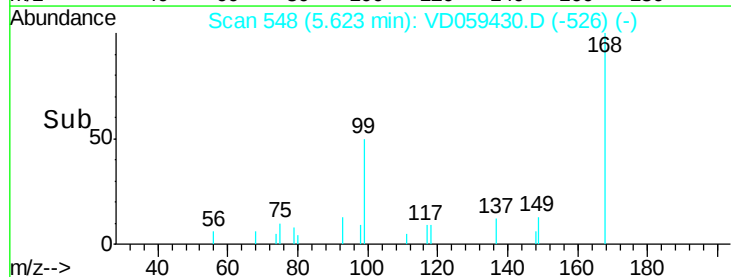
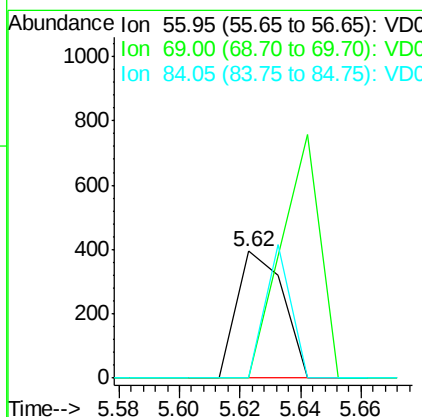
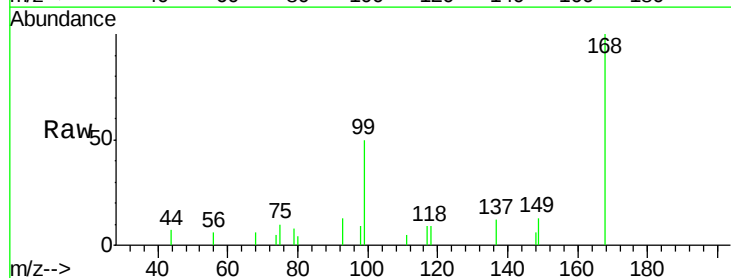
Instrument :
MSVOA_D
ClientSampled :

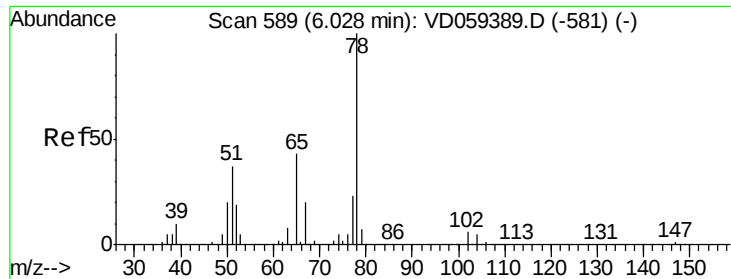
Tot Ion: 83 Resp: 1061
Ion Ratio Lower Upper
83 100
85 0.0 49.3 73.9#



#31
Cyclohexane
Concen: Below Cal
RT: 5.62 min Scan# 548
Delta R.T. 0.02 min
Lab File: VD059430.D
Acq: 26 Jun 2018 18:17

Tgt Ion: 56 Resp: 421
Ion Ratio Lower Upper
56 100
69 0.0 22.9 34.3#
84 0.0 67.3 100.9#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.01 min Scan# 587

Delta R.T. -0.02 min

Lab File: VD059430.D

Acq: 26 Jun 2018 18:17

Instrument :

MSVOA_D

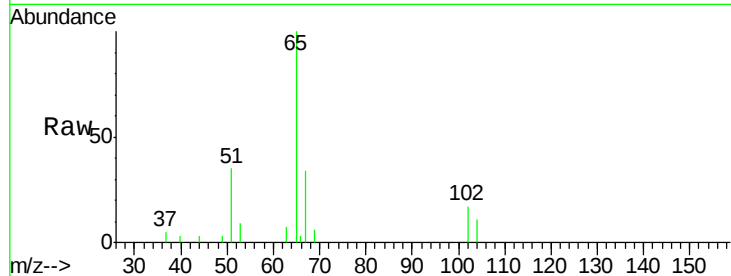
ClientSampleId :

Tot Ion: 65 Resp: 28012

Ion Ratio Lower Upper

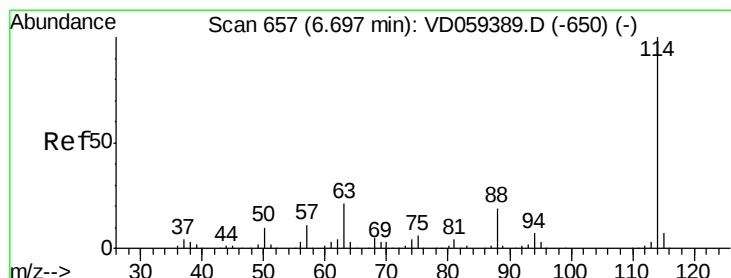
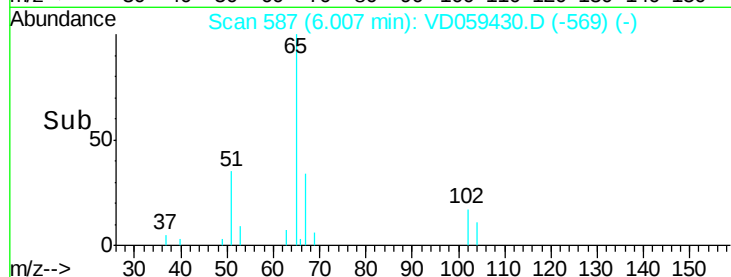
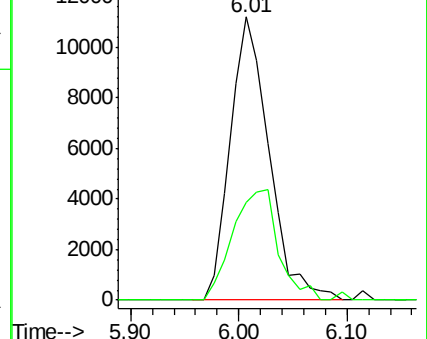
65 100

67 34.4 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# 656

Delta R.T. -0.01 min

Lab File: VD059430.D

Acq: 26 Jun 2018 18:17

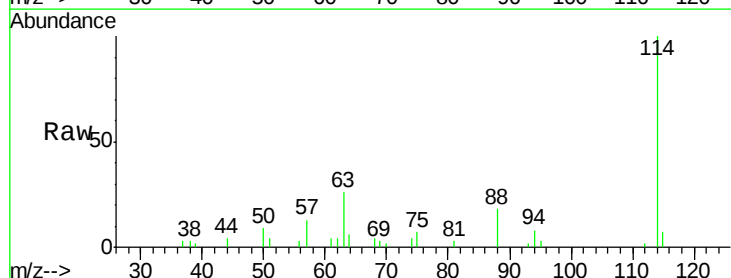
Tgt Ion: 114 Resp: 48348

Ion Ratio Lower Upper

114 100

63 25.9 0.0 42.4

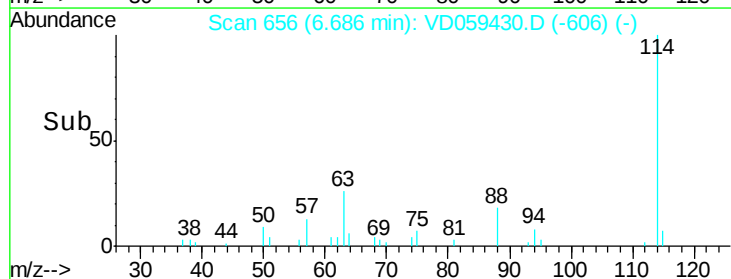
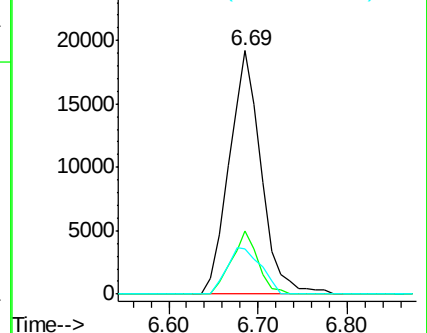
88 18.4 0.0 38.0

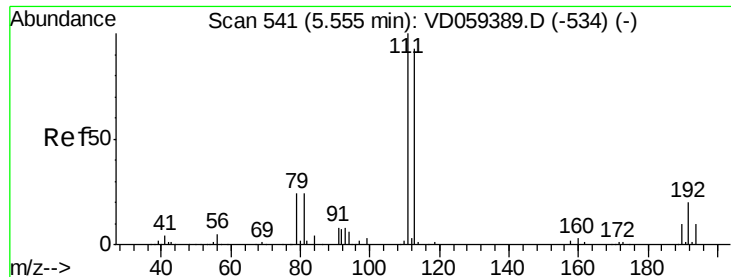


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.54 min Scan# 540

Delta R.T. -0.01 min

Lab File: VD059430.D

Acq: 26 Jun 2018 18:17

Instrument :

MSVOA_D

ClientSampleId :

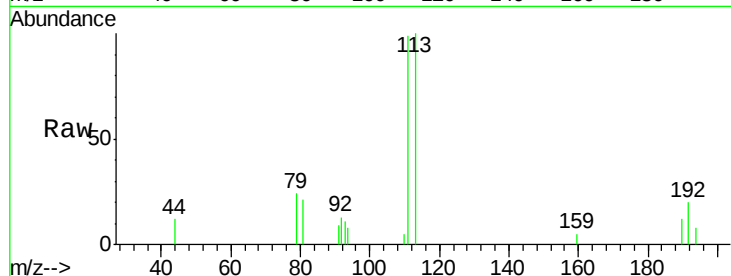
Tot Ion:113 Resp: 19633

Ion Ratio Lower Upper

113 100

111 98.9 85.7 128.5

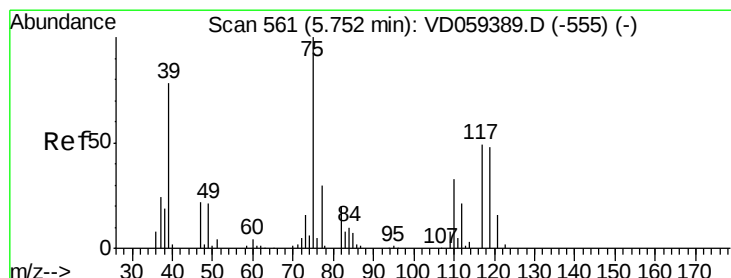
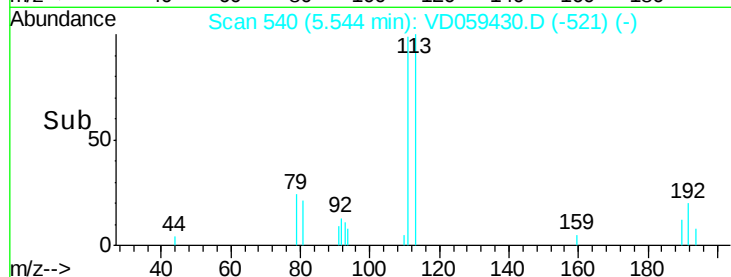
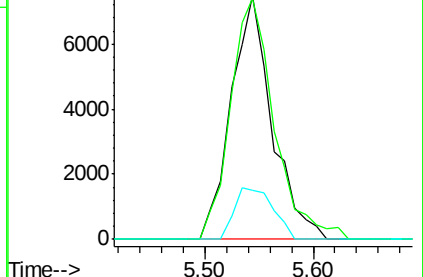
192 20.3 16.9 25.3



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: 4.154 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.12 min

Lab File: VD059430.D

Acq: 26 Jun 2018 18:17

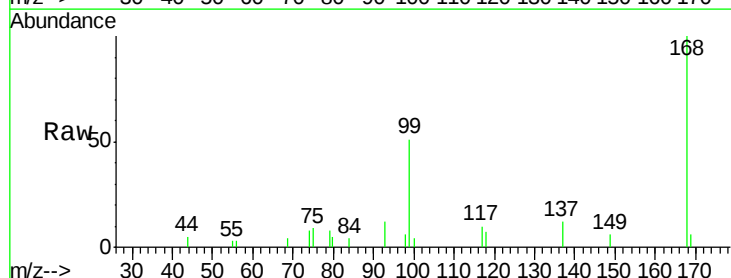
Tgt Ion: 75 Resp: 1822

Ion Ratio Lower Upper

75 100

110 0.0 16.1 48.2#

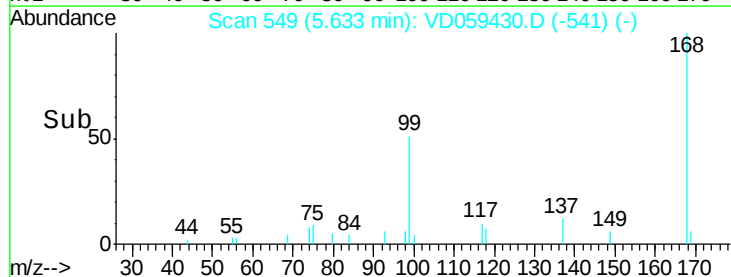
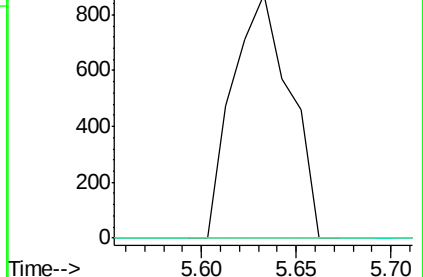
77 0.0 23.4 35.2#

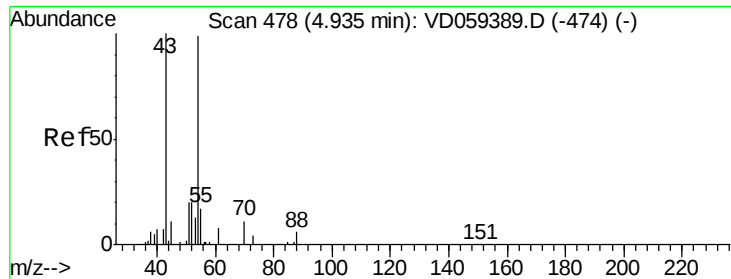


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

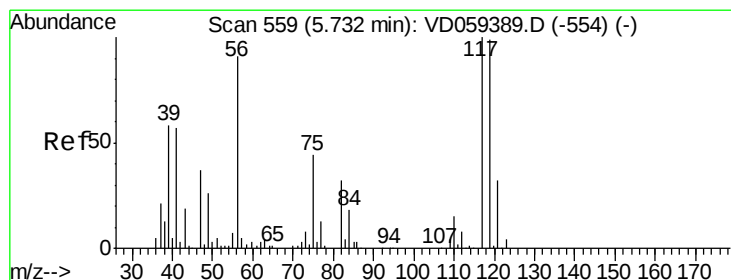
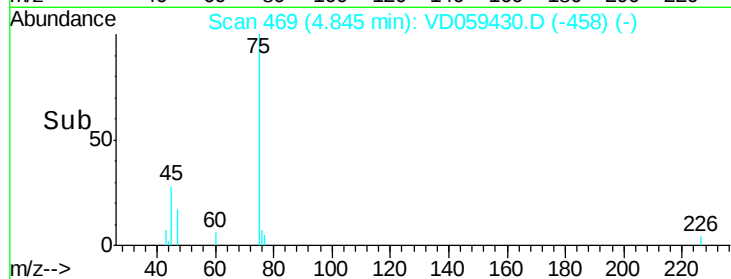
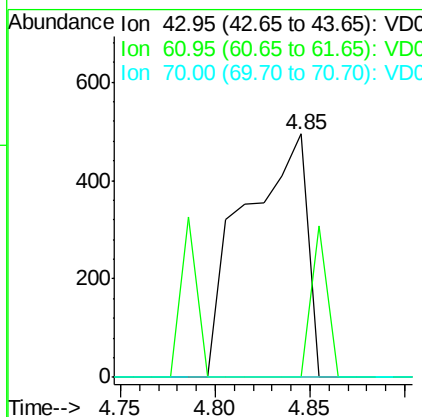
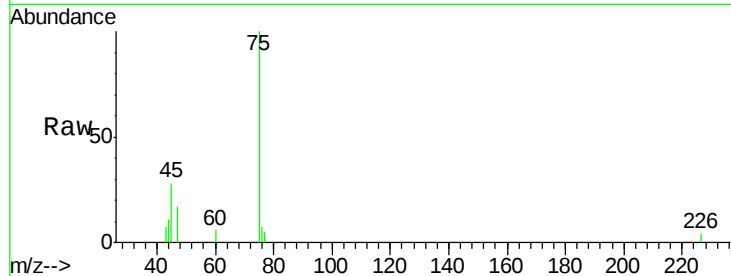




#37
Ethyl Acetate
Concen: 4.272 ug/l
RT: 4.85 min Scan# 469
Delta R.T. -0.09 min
Lab File: VD059430.D
Acq: 26 Jun 2018 18:17

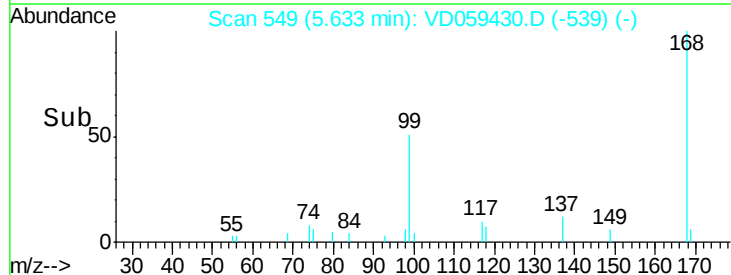
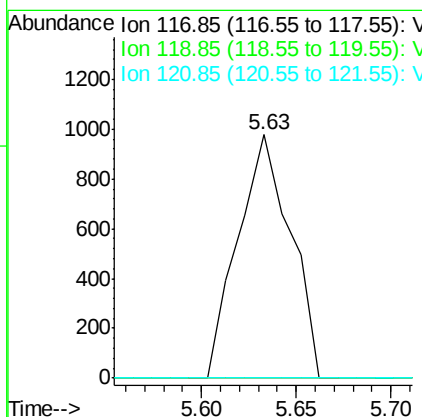
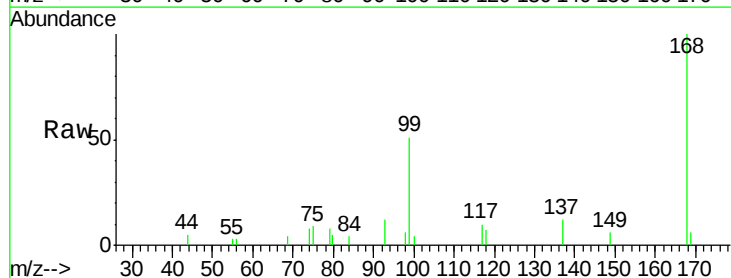
Instrument :
MSVOA_D
ClientSampleId :

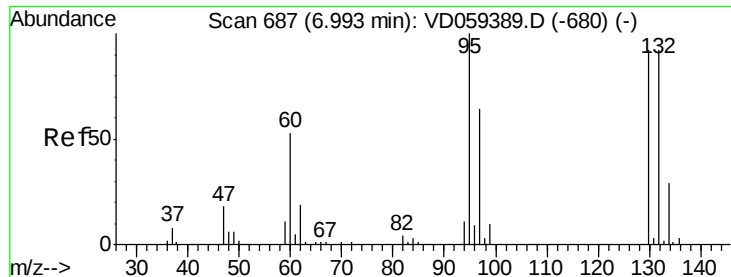
Tot Ion: 43 Resp: 1141
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.8#
70 0.0 6.1 9.1#



#38
Carbon Tetrachloride
Concen: 4.162 ug/l
RT: 5.63 min Scan# 549
Delta R.T. -0.10 min
Lab File: VD059430.D
Acq: 26 Jun 2018 18:17

Tgt Ion: 117 Resp: 1882
Ion Ratio Lower Upper
117 100
119 0.0 76.6 115.0#
121 0.0 25.0 37.4#





#44

Trichloroethene

Concen: 2.887 ug/l

RT: 6.97 min Scan# 685

Delta R.T. -0.02 min

Lab File: VD059430.D

Acq: 26 Jun 2018 18:17

Instrument :

MSVOA_D

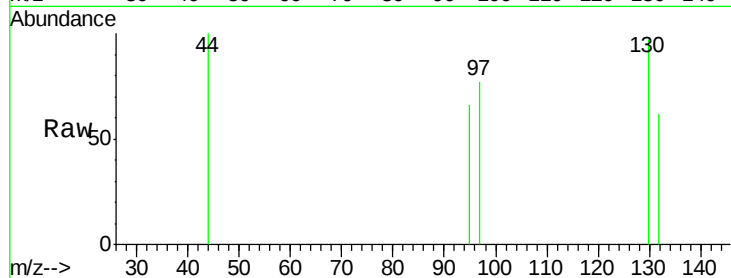
ClientSampleId :

Tot Ion:130 Resp: 995

Ion Ratio Lower Upper

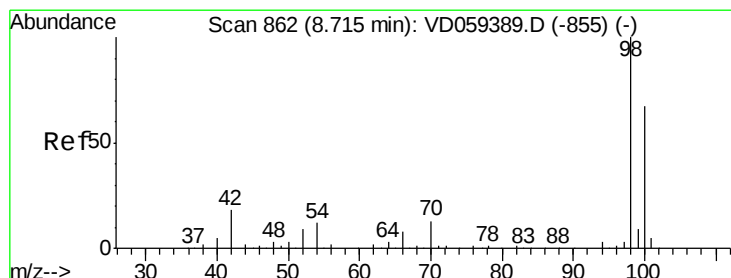
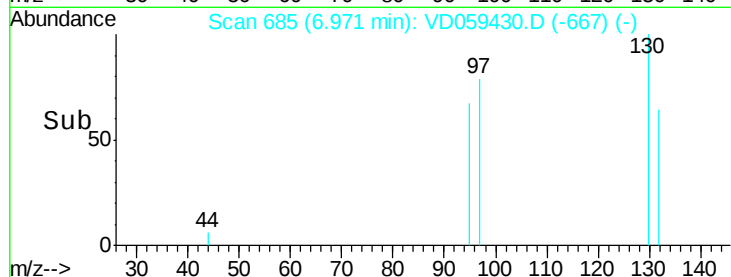
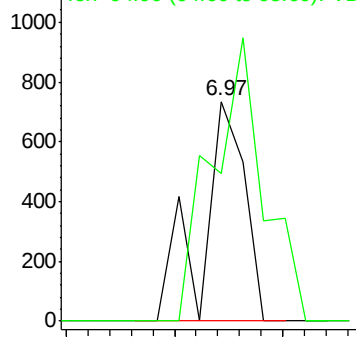
130 100

95 67.5 0.0 216.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD059430.D

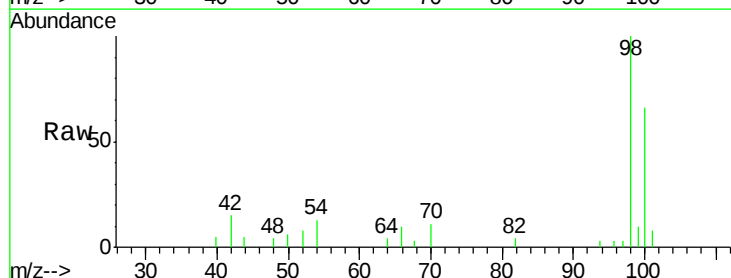
Acq: 26 Jun 2018 18:17

Tgt Ion: 98 Resp: 28880

Ion Ratio Lower Upper

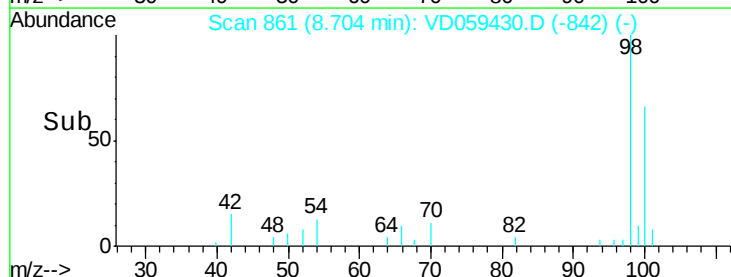
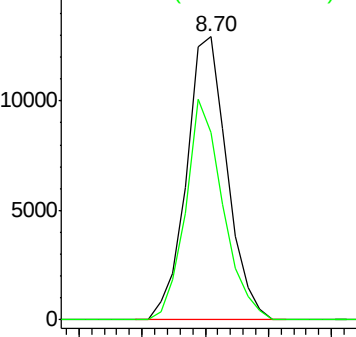
98 100

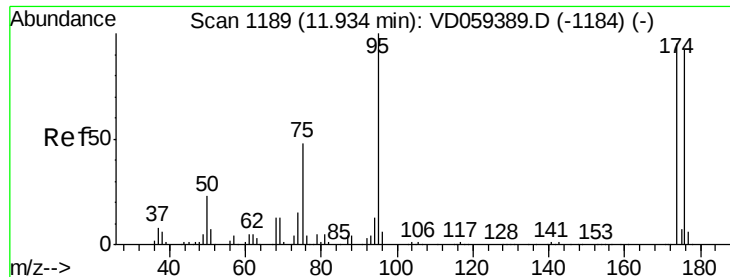
100 66.3 54.4 81.6



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

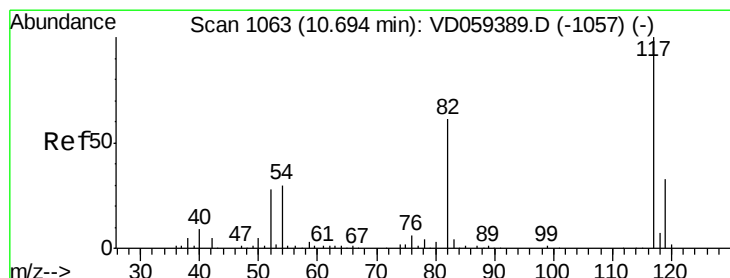
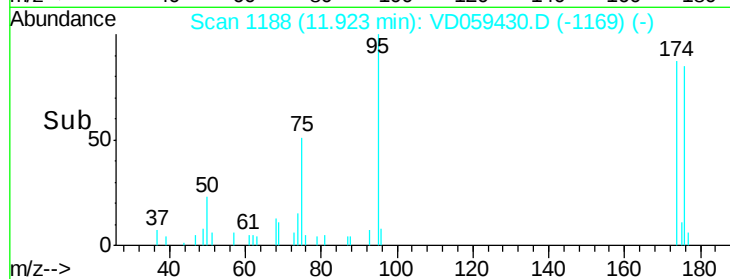
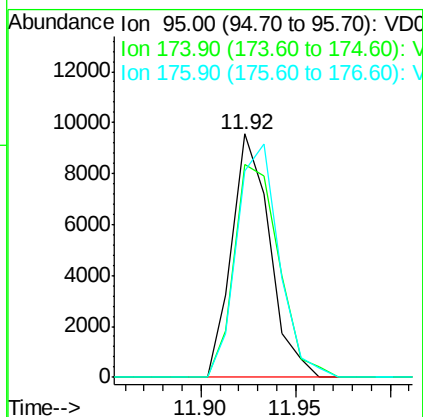
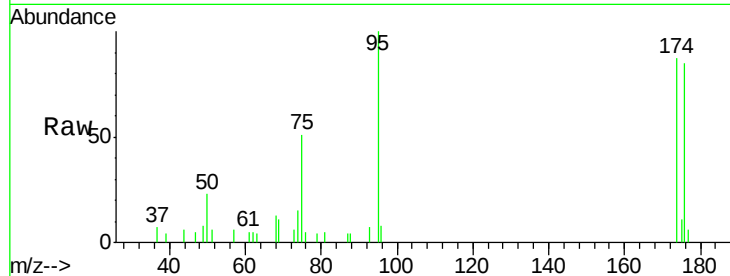




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.92 min Scan# 1188
Delta R.T. -0.01 min
Lab File: VD059430.D
Acq: 26 Jun 2018 18:17

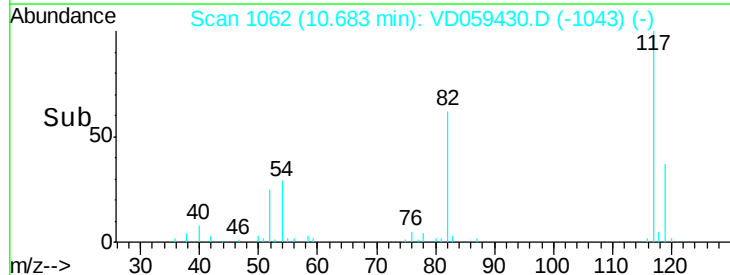
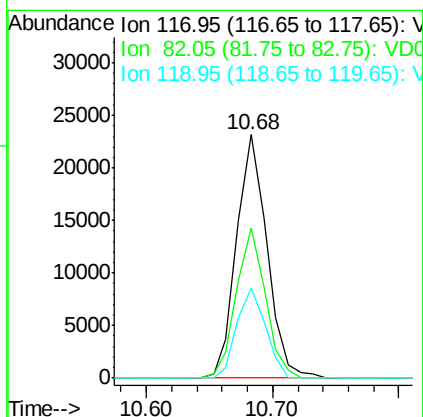
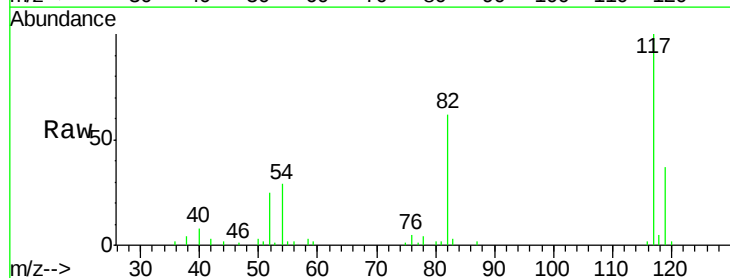
Instrument :
MSVOA_D
ClientSampleId :

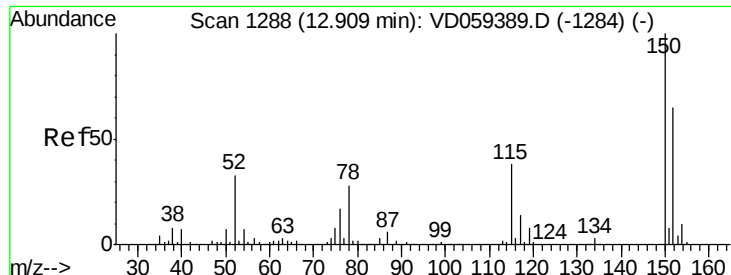
Tot Ion: 95 Resp: 13249
Ion Ratio Lower Upper
95 100
174 87.3 0.0 190.4
176 84.6 0.0 183.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.01 min
Lab File: VD059430.D
Acq: 26 Jun 2018 18:17

Tgt Ion: 117 Resp: 38674
Ion Ratio Lower Upper
117 100
82 61.9 49.0 73.6
119 36.7 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.91 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VD059430.D

Acq: 26 Jun 2018 18:17

Instrument :

MSVOA_D

ClientSampleId :

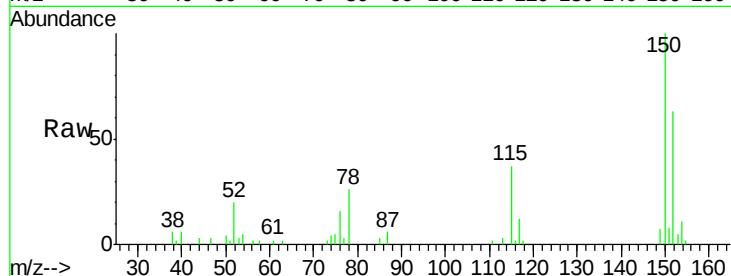
Tot Ion:152 Resp: 17175

Ion Ratio Lower Upper

152 100

115 58.8 29.4 88.3

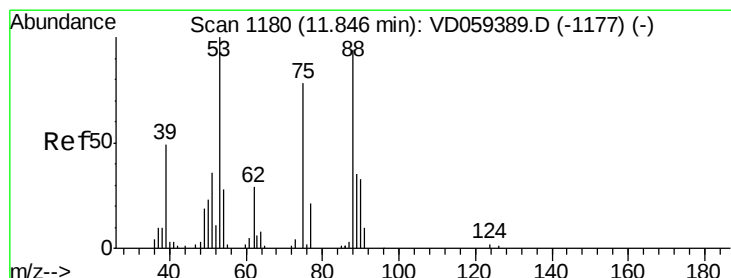
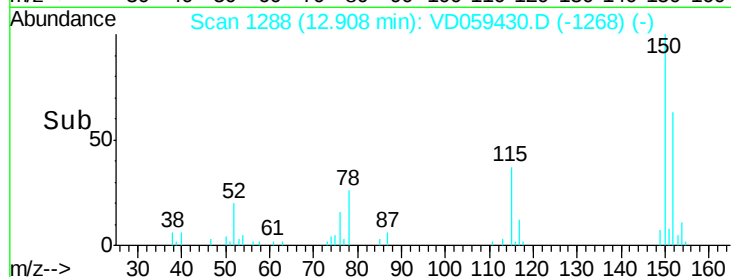
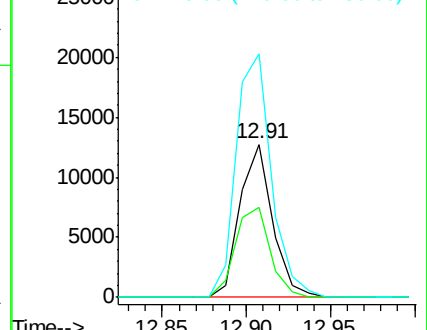
150 159.2 0.0 308.2



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: 127.122 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.08 min

Lab File: VD059430.D

Acq: 26 Jun 2018 18:17

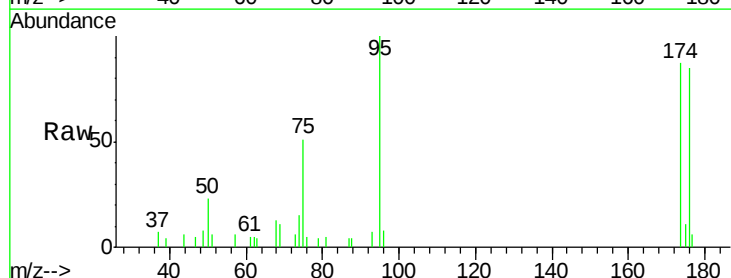
Tgt Ion: 75 Resp: 6845

Ion Ratio Lower Upper

75 100

53 0.0 102.6 154.0#

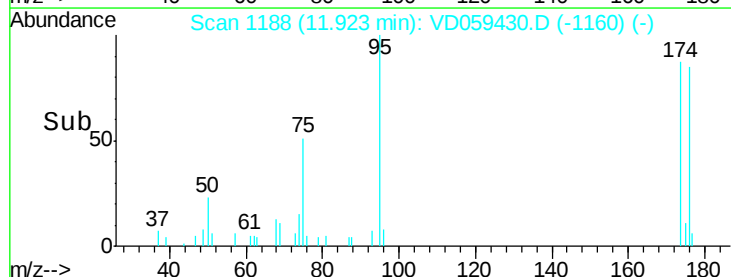
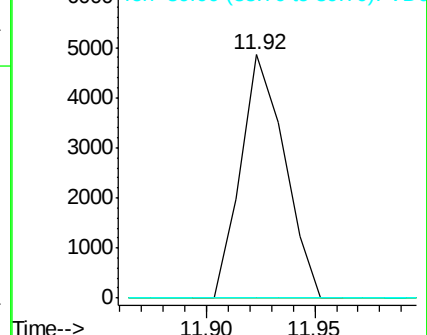
89 0.0 35.9 53.9#

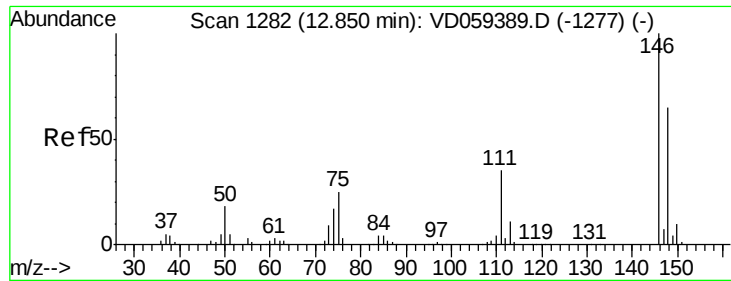


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

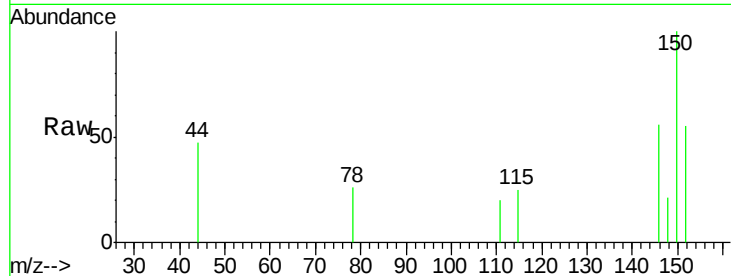




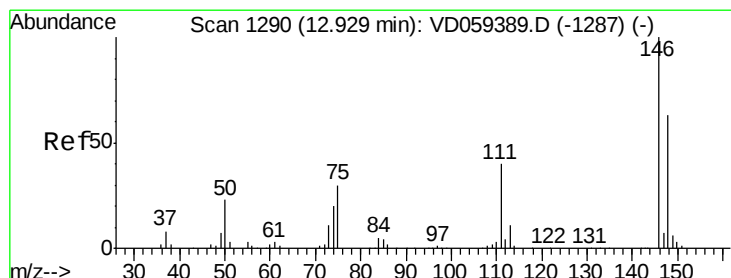
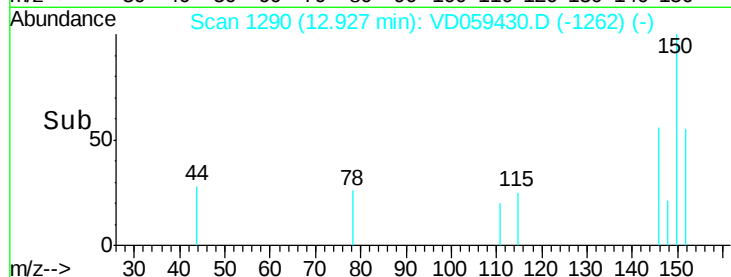
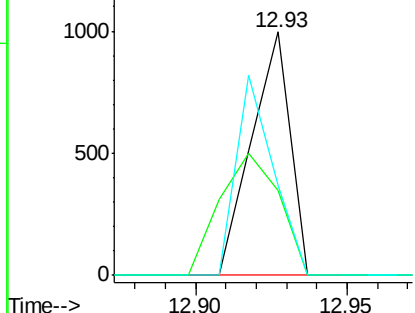
#87
 1,3-Dichlorobenzene
 Concen: 1.773 ug/l
 RT: 12.93 min Scan# 1290
 Delta R.T. 0.08 min
 Lab File: VD059430.D
 Acq: 26 Jun 2018 18:17

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:146 Resp: 890
 Ion Ratio Lower Upper
 146 100
 111 35.0 17.6 52.8
 148 36.8 32.4 97.2

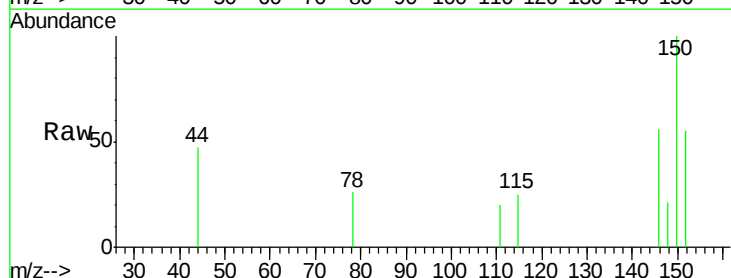


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

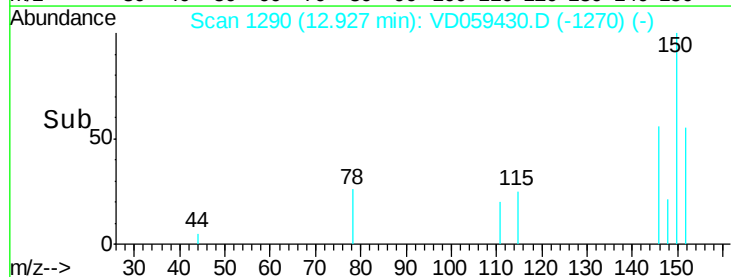
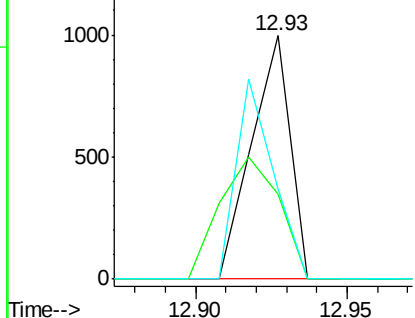


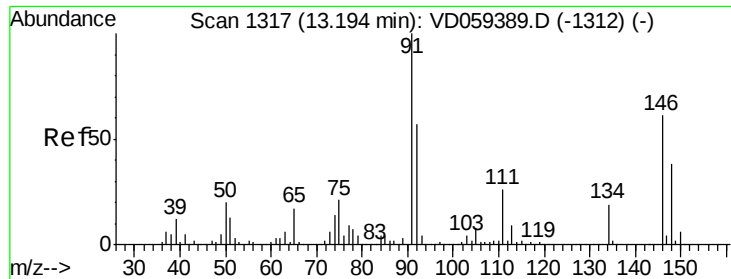
#88
 1,4-Dichlorobenzene
 Concen: 1.797 ug/l
 RT: 12.93 min Scan# 1290
 Delta R.T. -0.00 min
 Lab File: VD059430.D
 Acq: 26 Jun 2018 18:17

Tgt Ion:146 Resp: 890
 Ion Ratio Lower Upper
 146 100
 111 35.0 20.1 60.2
 148 36.8 31.4 94.0



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 1.434 ug/l

RT: 13.19 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD059430.D

Acq: 26 Jun 2018 18:17

Instrument :

MSVOA_D

ClientSampleId :

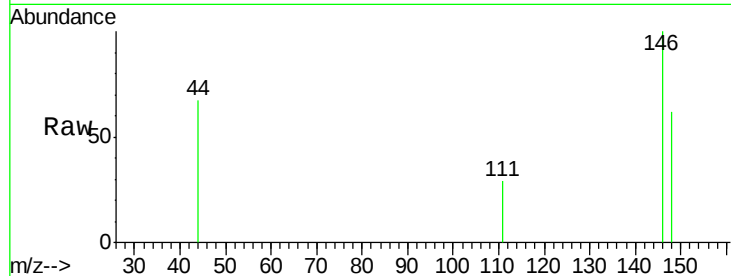
Tot Ion:146 Resp: 610

Ion Ratio Lower Upper

146 100

111 29.3 21.4 64.2

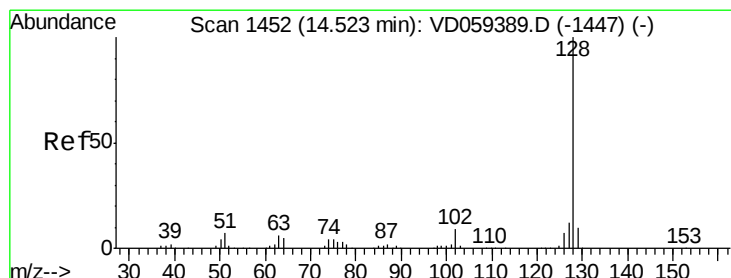
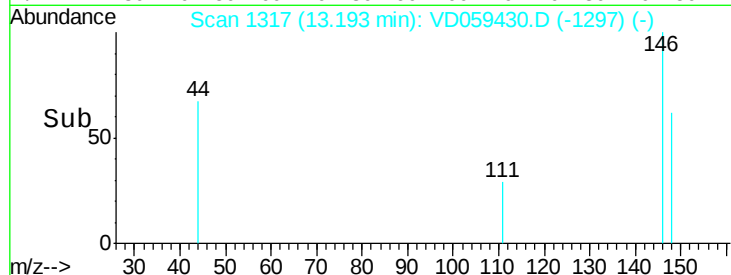
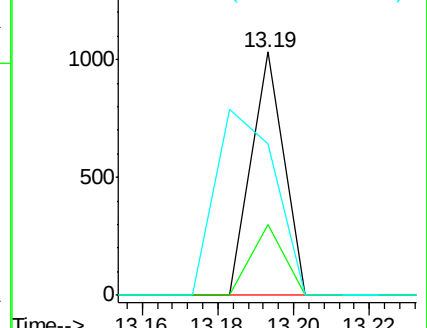
148 62.3 31.6 95.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 2.234 ug/l

RT: 14.51 min Scan# 1451

Delta R.T. -0.01 min

Lab File: VD059430.D

Acq: 26 Jun 2018 18:17

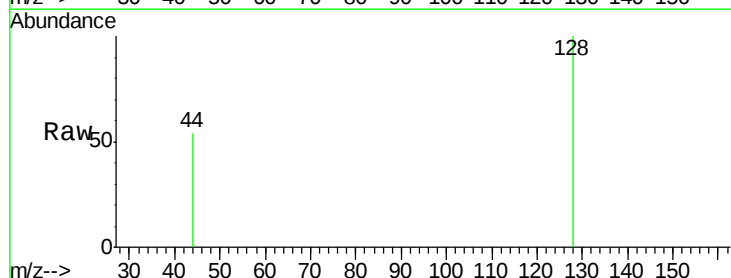
Tgt Ion:128 Resp: 1225

Ion Ratio Lower Upper

128 100

127 0.0 9.6 14.4#

129 0.0 8.2 12.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

