

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062518\
 Data File : VD059403.D
 Acq On : 25 Jun 2018 17:12
 Operator : VA/AP
 Sample : J3669-04
 Misc : 6.34g/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

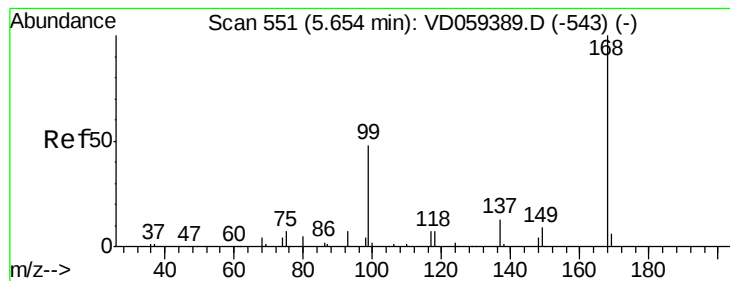
Quant Time: Jun 26 06:47:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D062518S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 07:29:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	796718	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	6.69	114	1044003	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.68	117	839838	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	482315	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	350322	43.00	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	86.00%	
35) Dibromofluoromethane	5.54	113	370689	43.59	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	87.18%	
50) Toluene-d8	8.70	98	803925	40.44	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	80.88%	
62) 4-Bromofluorobenzene	11.92	95	359917	43.53	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	87.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.80	94	464	Below Cal	#	4
11) Tert butyl alcohol	3.19	59	328	1.164	ug/l #	72
16) Acetone	2.60	43	27696	26.934	ug/l #	77
18) Methyl Acetate	2.93	43	1098	Below Cal	#	66
20) Methylene Chloride	3.06	84	27614	7.566	ug/l	91
25) 2-Butanone	4.82	43	3628	1.684	ug/l #	57
31) Cyclohexane	5.62	56	16609	Below Cal	#	1
36) 1,1-Dichloropropene	5.63	75	62314	6.580	ug/l #	51
38) Carbon Tetrachloride	5.63	117	66800	6.841	ug/l #	15
44) Trichloroethene	6.97	130	394588	53.026	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.92	75	173376	114.658	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.02 min

Lab File: VD059403.D

Acq: 25 Jun 2018 17:12

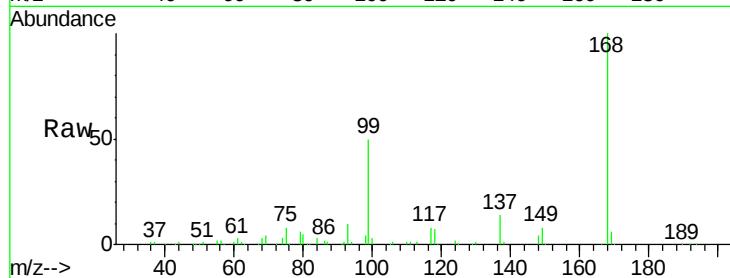
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 796718

Ion Ratio Lower Upper

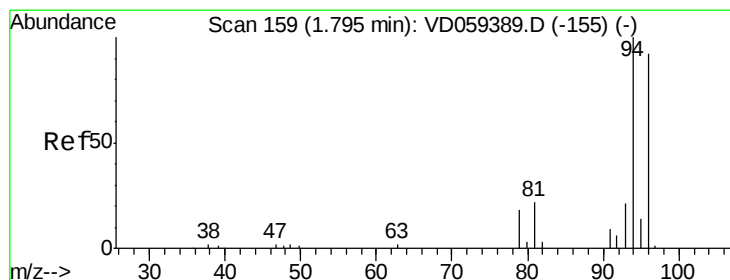
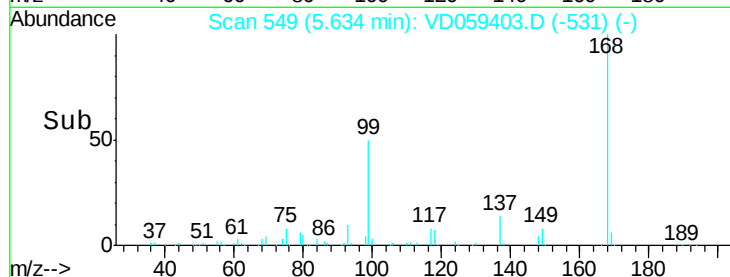
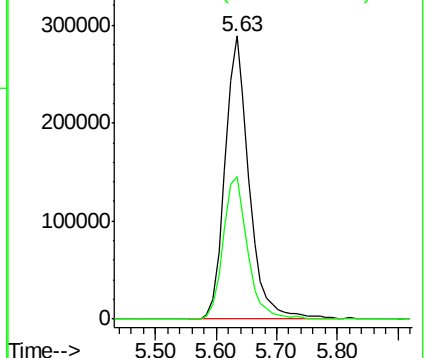
168 100

99 50.3 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: 1.80 min Scan# 160

Delta R.T. 0.01 min

Lab File: VD059403.D

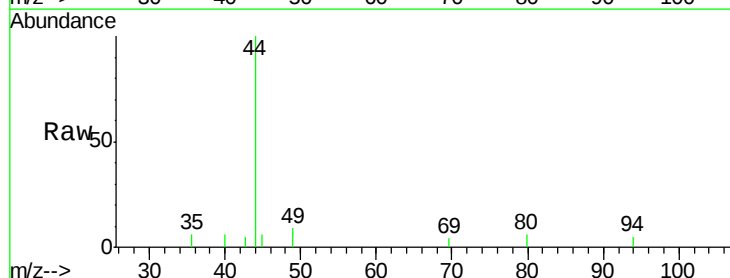
Acq: 25 Jun 2018 17:12

Tgt Ion: 94 Resp: 464

Ion Ratio Lower Upper

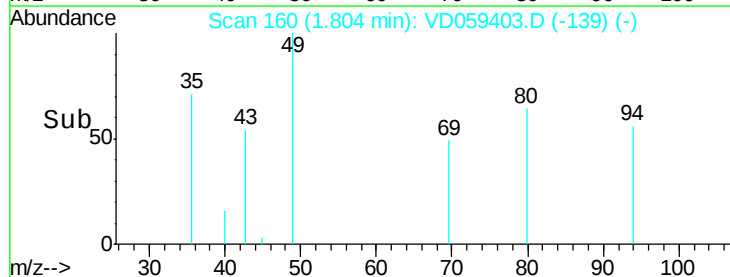
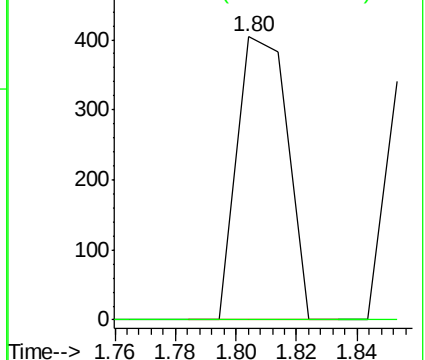
94 100

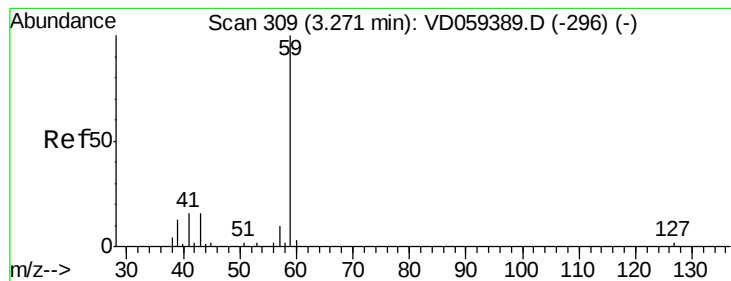
96 0.0 73.4 110.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



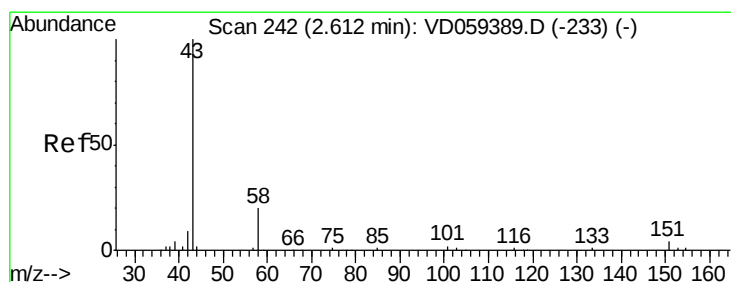
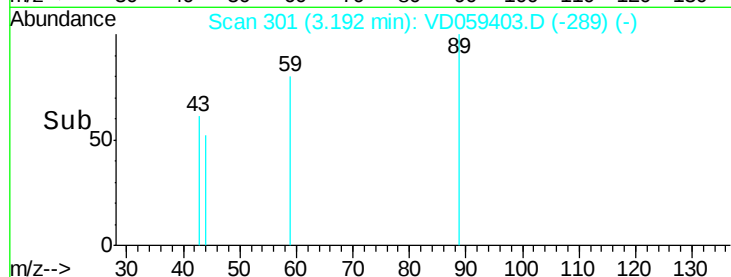
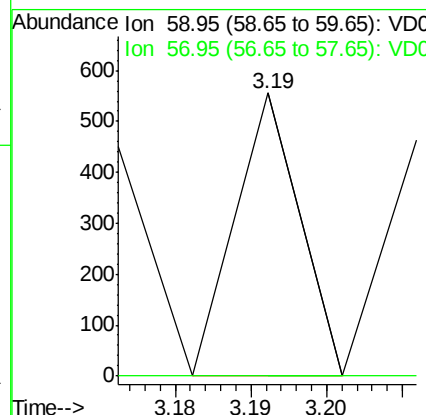
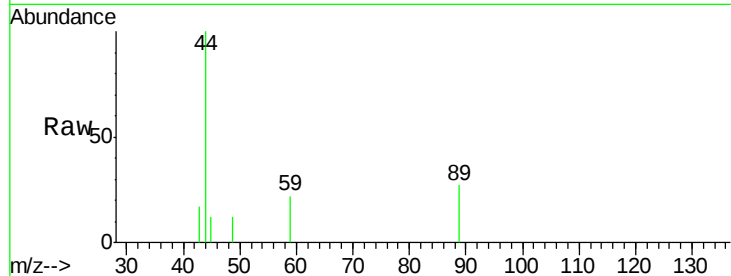


#11

Tert butyl alcohol
 Concen: 1.164 ug/l
 RT: 3.19 min Scan# 301
 Delta R.T. -0.08 min
 Lab File: VD059403.D
 Acq: 25 Jun 2018 17:12

Instrument :
 MSVOA_D
 ClientSampled :

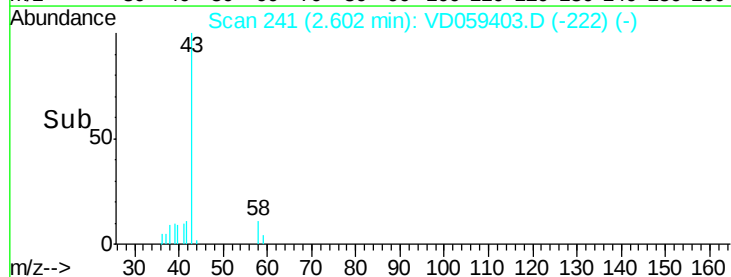
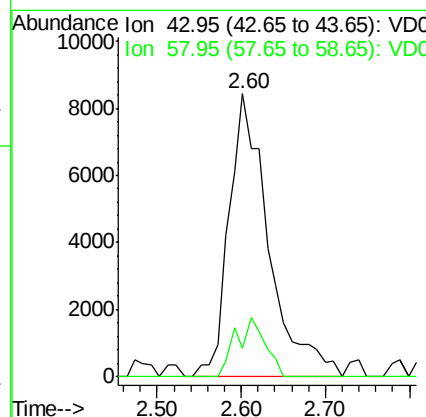
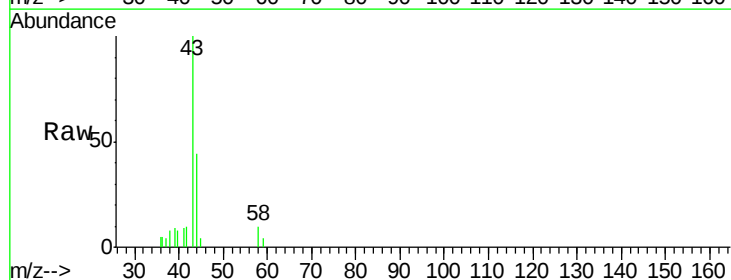
Tot Ion: 59 Resp: 328
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

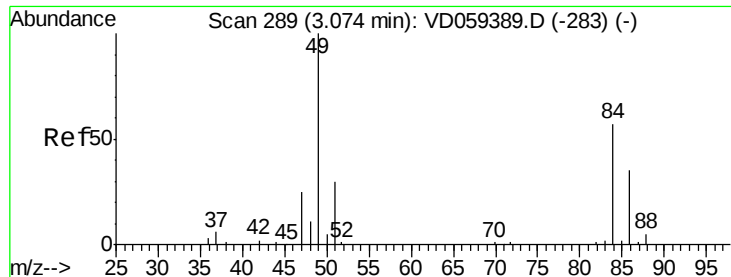


#16

Acetone
 Concen: 26.934 ug/l
 RT: 2.60 min Scan# 241
 Delta R.T. -0.01 min
 Lab File: VD059403.D
 Acq: 25 Jun 2018 17:12

Tgt Ion: 43 Resp: 27696
 Ion Ratio Lower Upper
 43 100
 58 10.3 16.8 25.2#

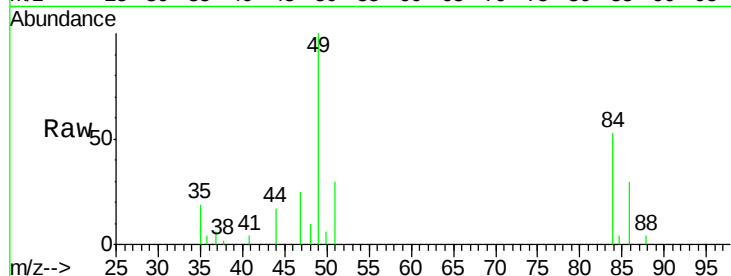




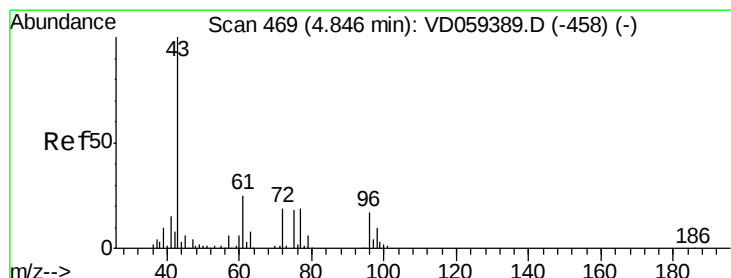
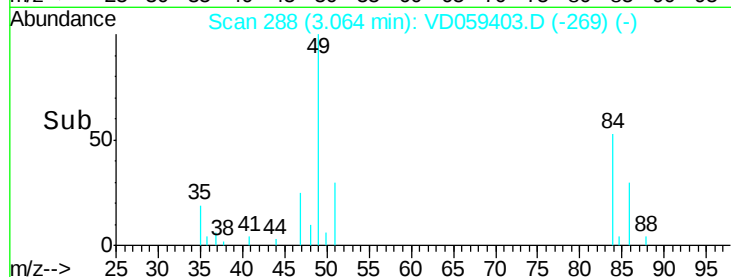
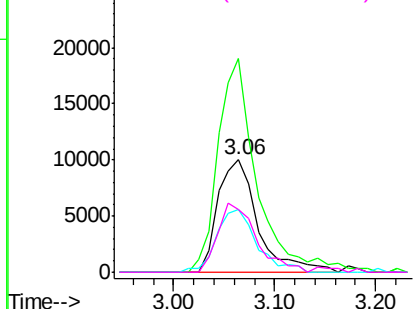
#20
Methvlene Chloride
Concen: 7.566 ug/l
RT: 3.06 min Scan# 288
Delta R.T. -0.01 min
Lab File: VD059403.D
Acq: 25 Jun 2018 17:12

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 27614
Ion Ratio Lower Upper
84 100
49 190.0 140.3 210.5
51 56.4 41.6 62.4
86 56.1 49.4 74.2

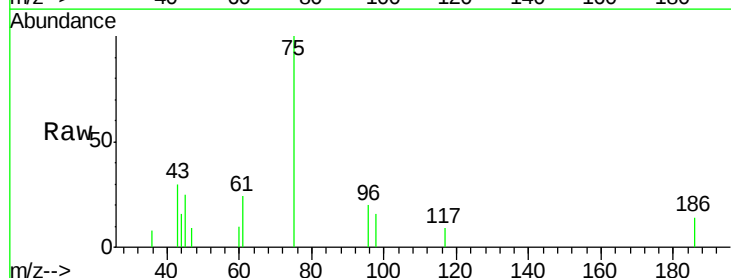


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

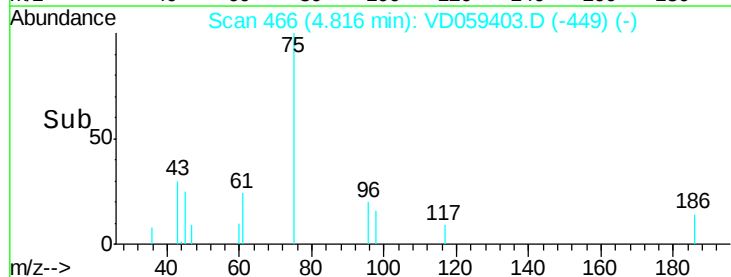
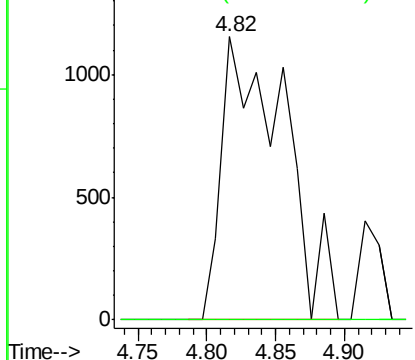


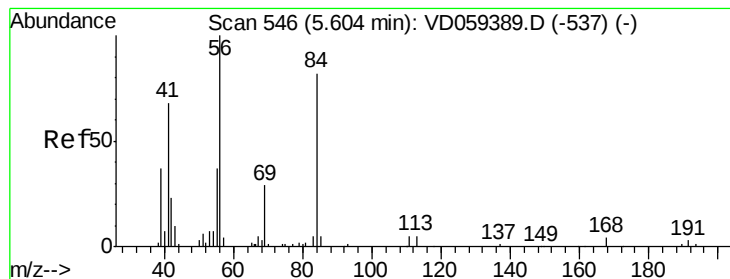
#25
2-Butanone
Concen: 1.684 ug/l
RT: 4.82 min Scan# 466
Delta R.T. -0.03 min
Lab File: VD059403.D
Acq: 25 Jun 2018 17:12

Tgt Ion: 43 Resp: 3628
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





#31

Cyclohexane

Concen: Below Cal

RT: 5.62 min Scan# 548

Delta R.T. 0.02 min

Lab File: VD059403.D

Acq: 25 Jun 2018 17:12

Instrument :

MSVOA_D

ClientSampleId :

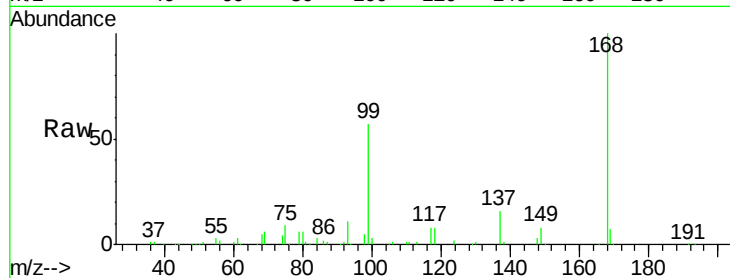
Tot Ion: 56 Resp: 16609

Ion Ratio Lower Upper

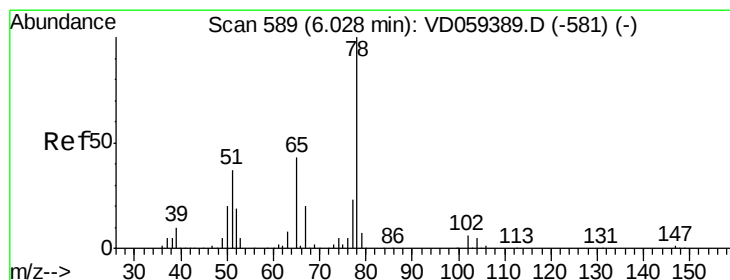
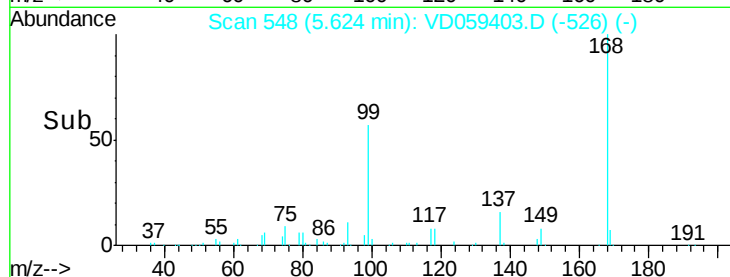
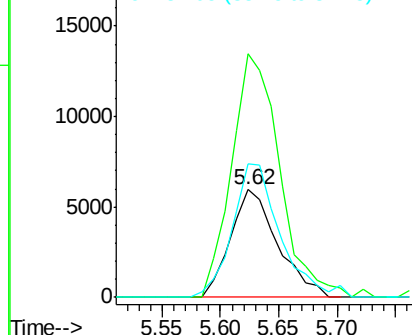
56 100

69 226.3 22.9 34.3#

84 123.9 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: 6.01 min Scan# 587

Delta R.T. -0.02 min

Lab File: VD059403.D

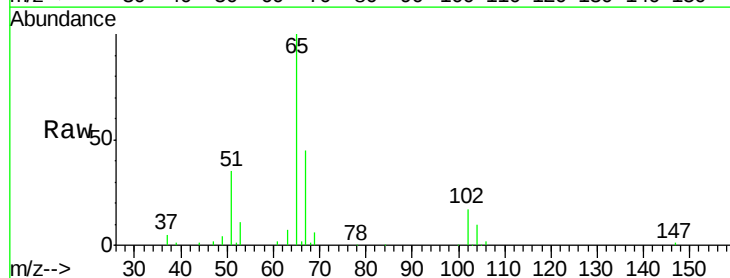
Acq: 25 Jun 2018 17:12

Tgt Ion: 65 Resp: 350322

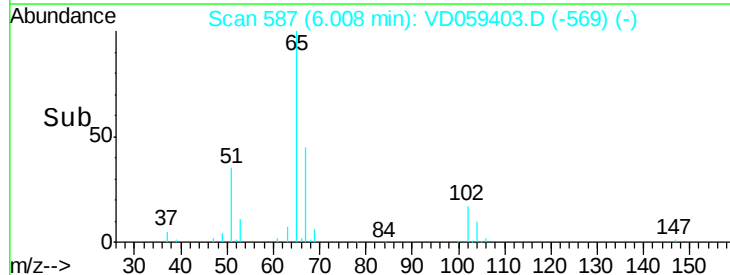
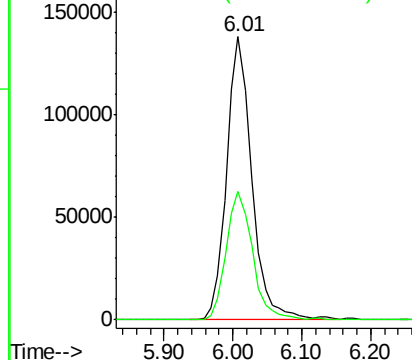
Ion Ratio Lower Upper

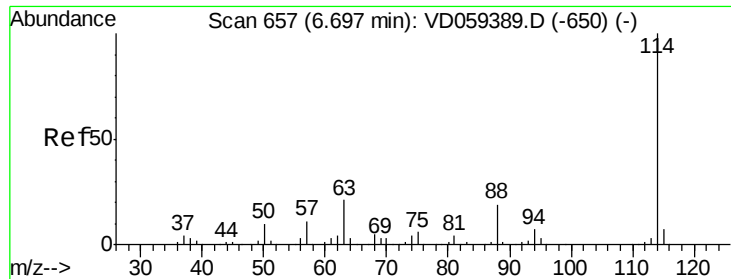
65 100

67 45.2 0.0 93.8



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

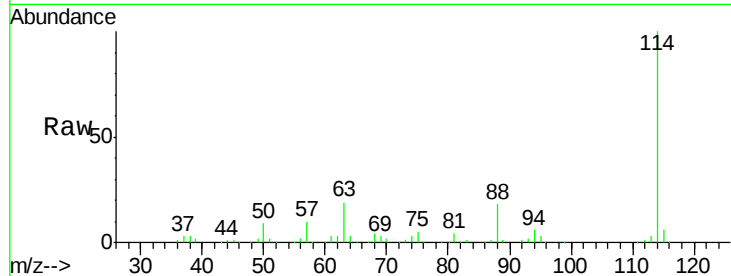




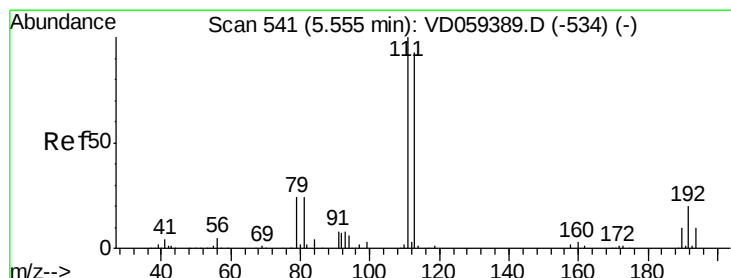
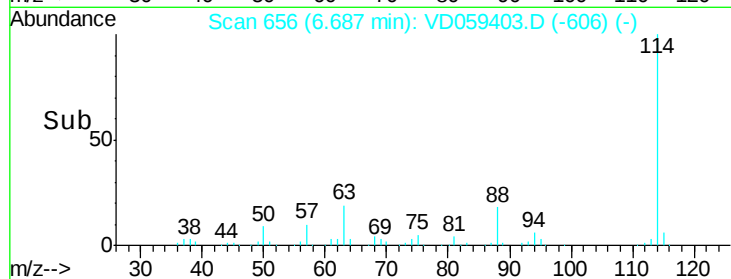
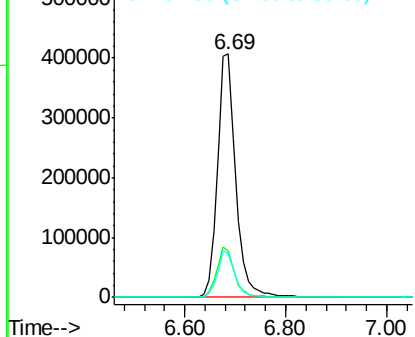
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 656
 Delta R.T. -0.01 min
 Lab File: VD059403.D
 Acq: 25 Jun 2018 17:12

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 1044003
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 42.4
 88 18.0 0.0 38.0

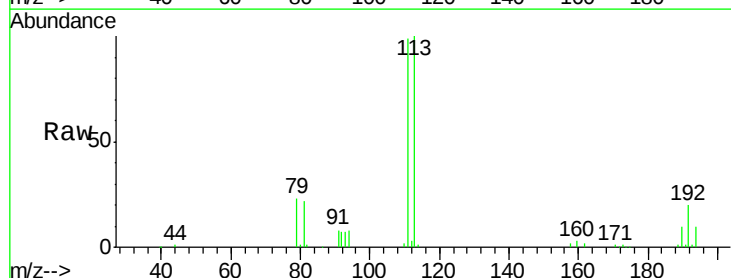


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

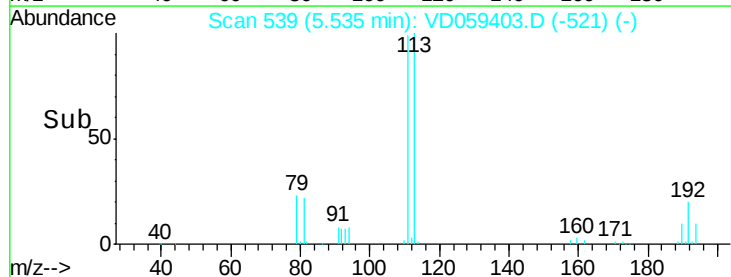
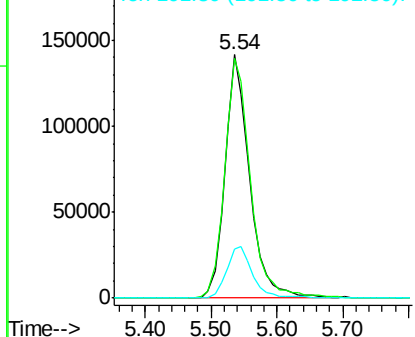


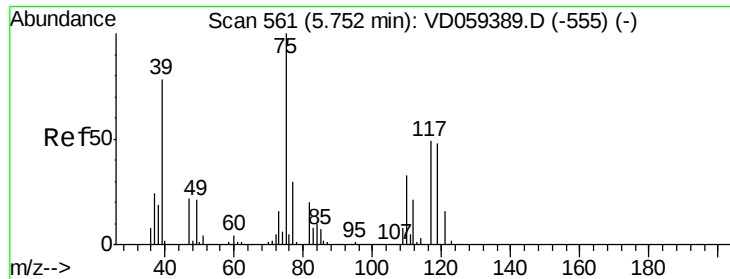
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.54 min Scan# 539
 Delta R.T. -0.02 min
 Lab File: VD059403.D
 Acq: 25 Jun 2018 17:12

Tgt Ion:113 Resp: 370689
 Ion Ratio Lower Upper
 113 100
 111 98.6 85.7 128.5
 192 20.1 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: 6.580 ug/l

RT: 5.63 min Scan# 549

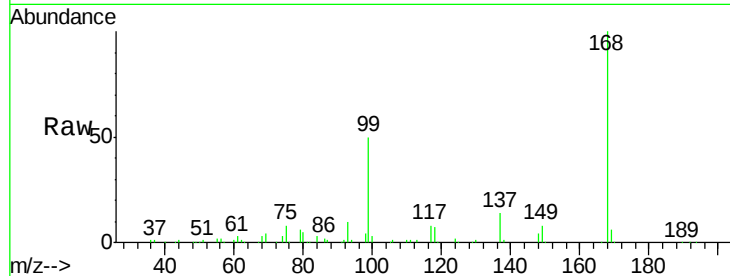
Delta R.T. -0.12 min

Lab File: VD059403.D

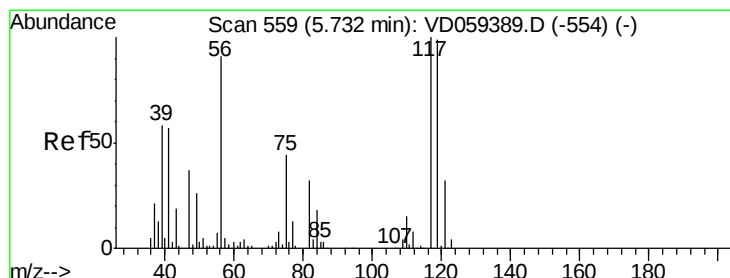
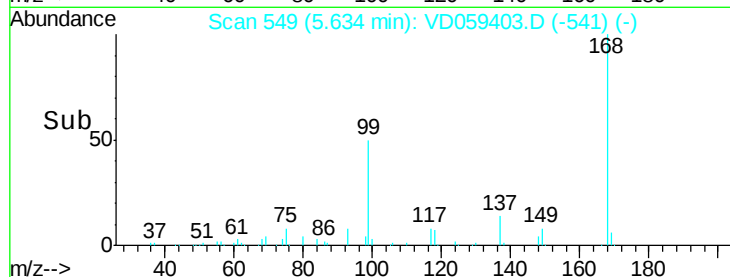
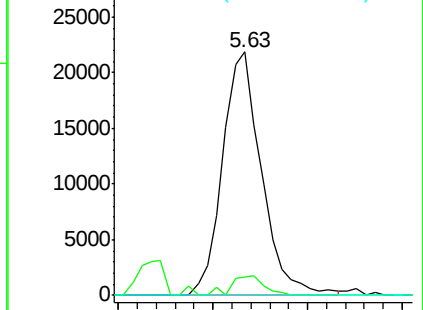
Acq: 25 Jun 2018 17:12

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:	75	Resp:	62314
Ion	Ratio	Lower	Upper
75	100		
110	7.3	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: 6.841 ug/l

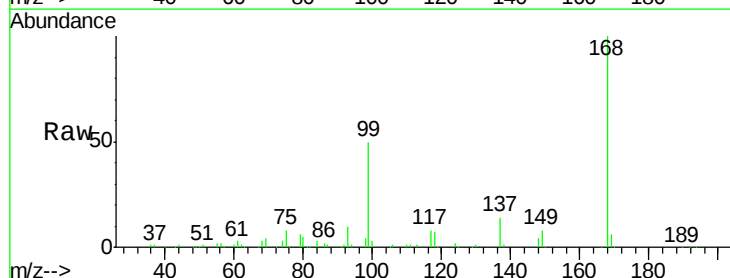
RT: 5.63 min Scan# 549

Delta R.T. -0.10 min

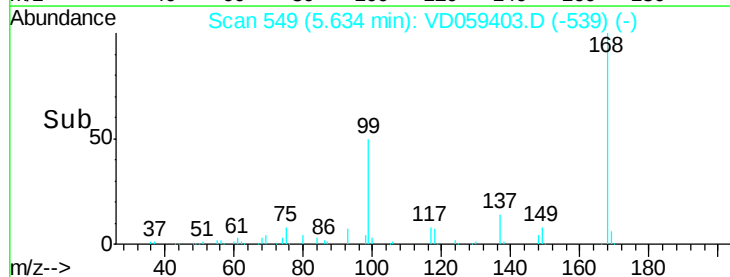
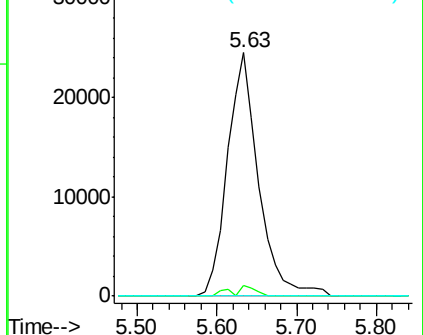
Lab File: VD059403.D

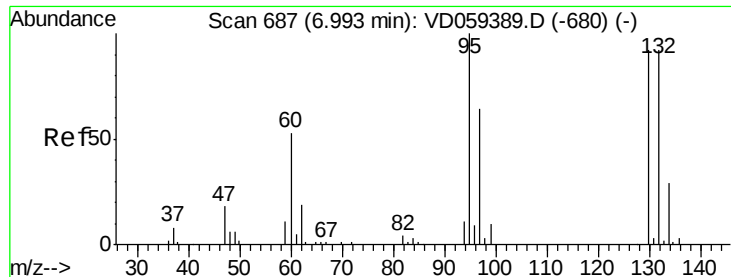
Acq: 25 Jun 2018 17:12

Tgt Ion:	117	Resp:	66800
Ion	Ratio	Lower	Upper
117	100		
119	4.4	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





#44

Trichloroethene

Concen: 53.026 ug/l

RT: 6.97 min Scan# 685

Delta R.T. -0.02 min

Lab File: VD059403.D

Acq: 25 Jun 2018 17:12

Instrument :

MSVOA_D

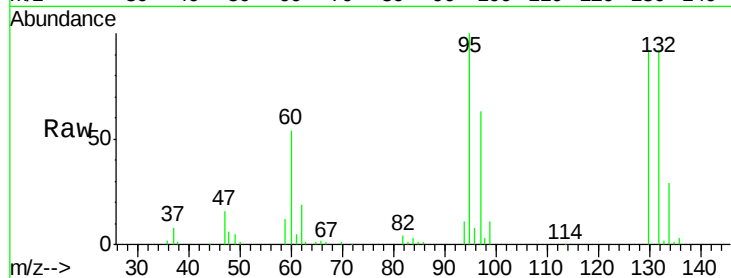
ClientSampleId :

Tot Ion:130 Resp: 394588

Ion Ratio Lower Upper

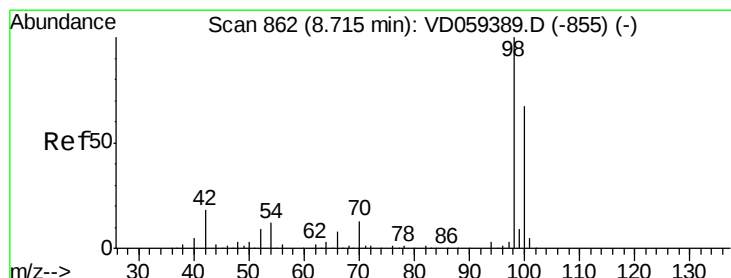
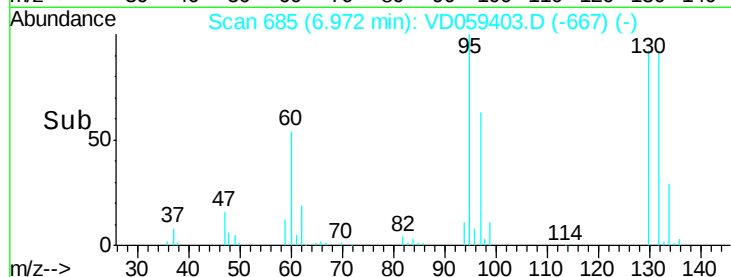
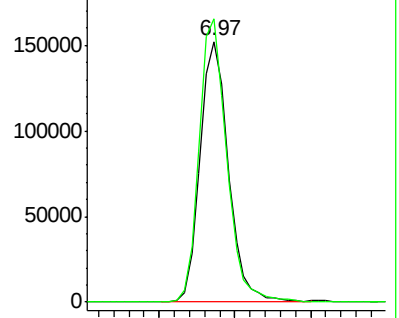
130 100

95 108.5 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# 860

Delta R.T. -0.02 min

Lab File: VD059403.D

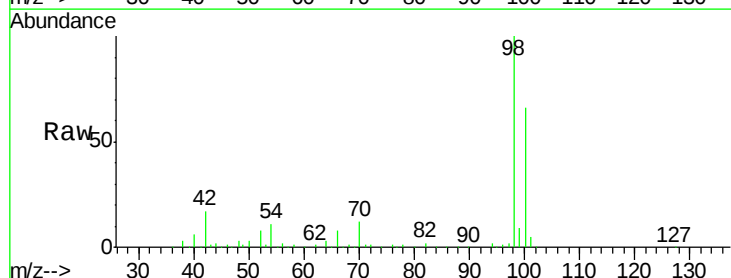
Acq: 25 Jun 2018 17:12

Tgt Ion: 98 Resp: 803925

Ion Ratio Lower Upper

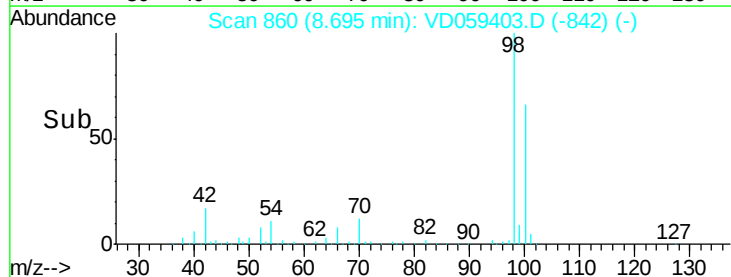
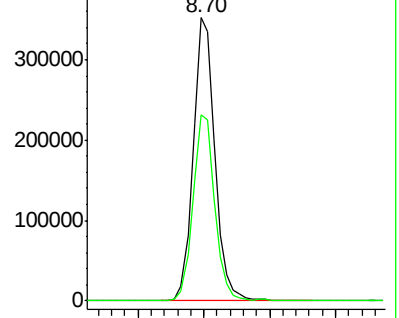
98 100

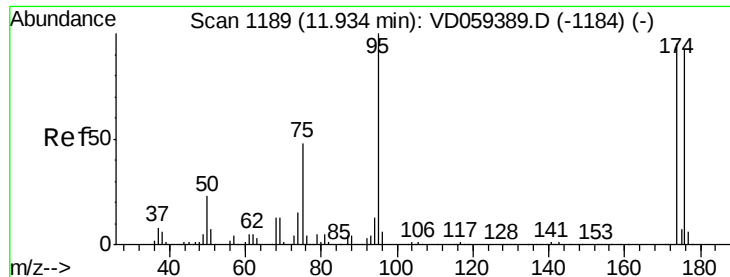
100 65.6 54.4 81.6



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# 1189

Delta R.T. -0.01 min

Lab File: VD059403.D

Acq: 25 Jun 2018 17:12

Instrument :

MSVOA_D

ClientSampleId :

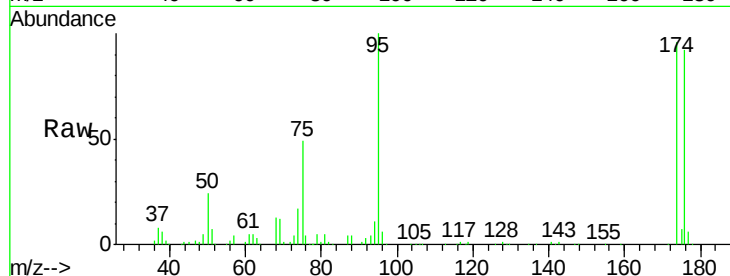
Tot Ion: 95 Resp: 359917

Ion Ratio Lower Upper

95 100

174 95.7 0.0 190.4

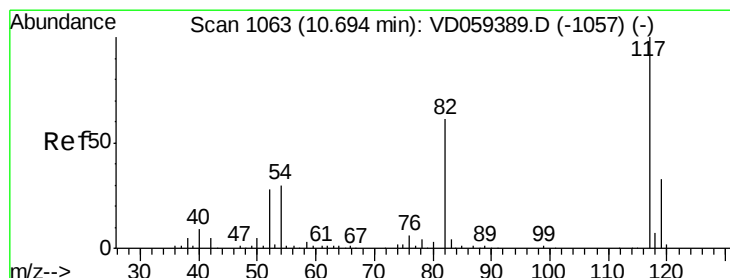
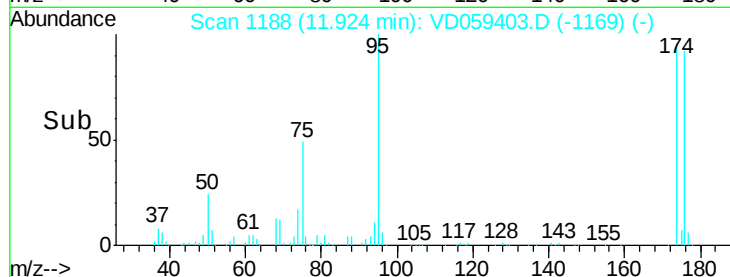
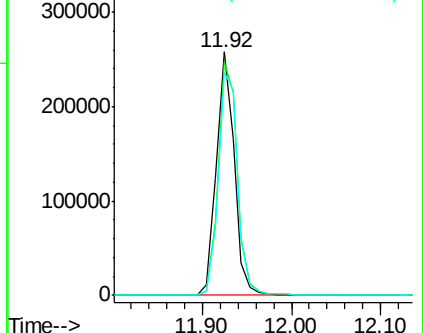
176 91.8 0.0 183.2



Abundance Ion 95.00 (94.70 to 95.70): V

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: 10.68 min Scan# 1062

Delta R.T. -0.01 min

Lab File: VD059403.D

Acq: 25 Jun 2018 17:12

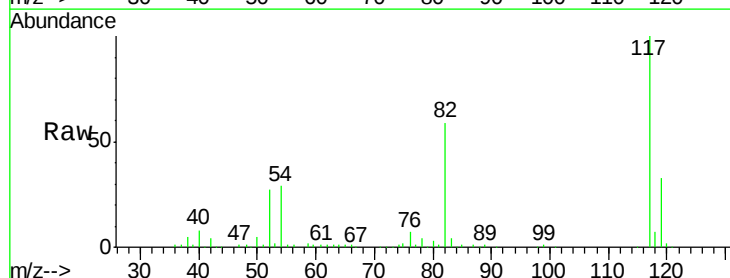
Tgt Ion: 117 Resp: 839838

Ion Ratio Lower Upper

117 100

82 59.3 49.0 73.6

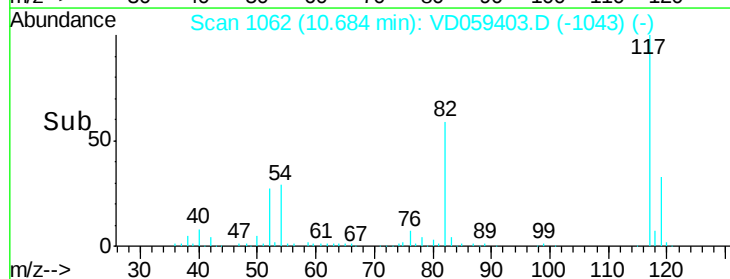
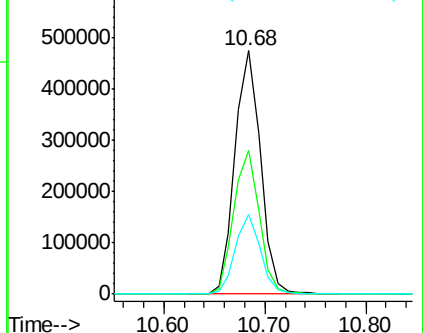
119 32.6 26.2 39.4

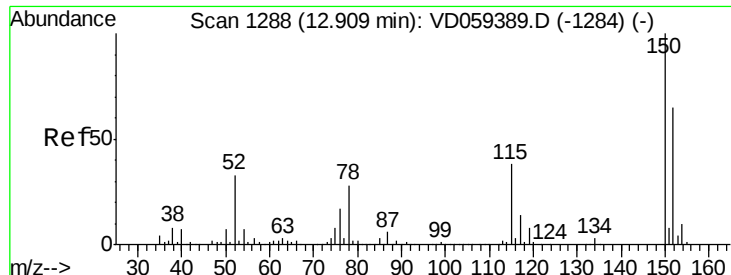


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.91 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VD059403.D

Acq: 25 Jun 2018 17:12

Instrument :

MSVOA_D

ClientSampleId :

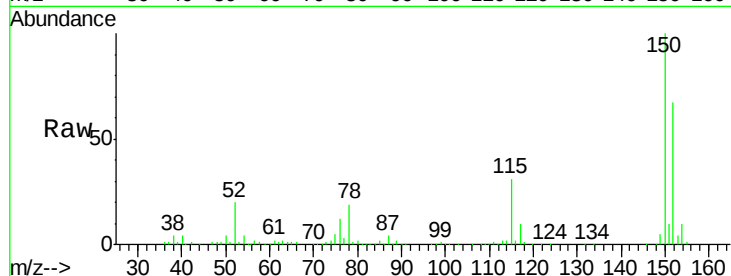
Tot Ion:152 Resp: 482315

Ion Ratio Lower Upper

152 100

115 45.7 29.4 88.3

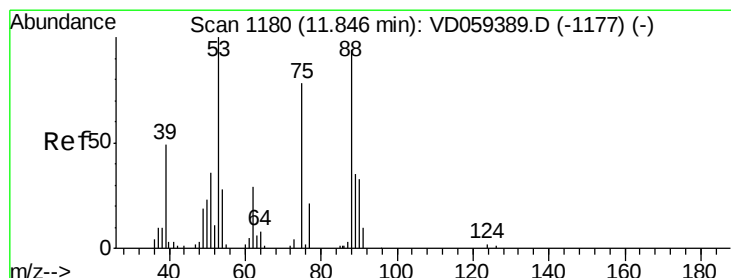
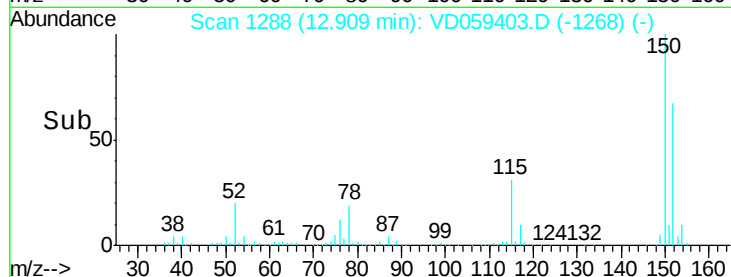
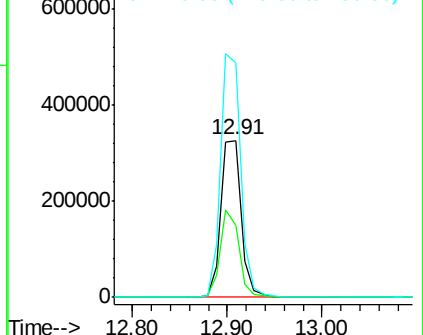
150 149.8 0.0 308.2



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: 114.658 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.08 min

Lab File: VD059403.D

Acq: 25 Jun 2018 17:12

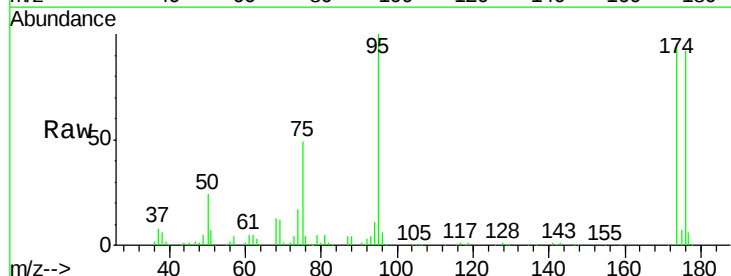
Tgt Ion: 75 Resp: 173376

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

