

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058358.D
 Acq On : 23 Jun 2018 23:21
 Operator : VA/AP
 Sample : J3669-04
 Misc : 6.37g/5ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 01:13:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	822546	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	6.71	114	1080199	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.70	117	890284	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	486867	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	420705	50.64	ug/l	0.02
Spiked Amount 50.000			Recovery	=	101.28%	
35) Dibromofluoromethane	5.57	113	429092	48.81	ug/l	0.02
Spiked Amount 50.000			Recovery	=	97.62%	
50) Toluene-d8	8.72	98	982089	46.17	ug/l	0.01
Spiked Amount 50.000			Recovery	=	92.34%	
62) 4-Bromofluorobenzene	11.94	95	422242	48.60	ug/l	0.01
Spiked Amount 50.000			Recovery	=	97.20%	

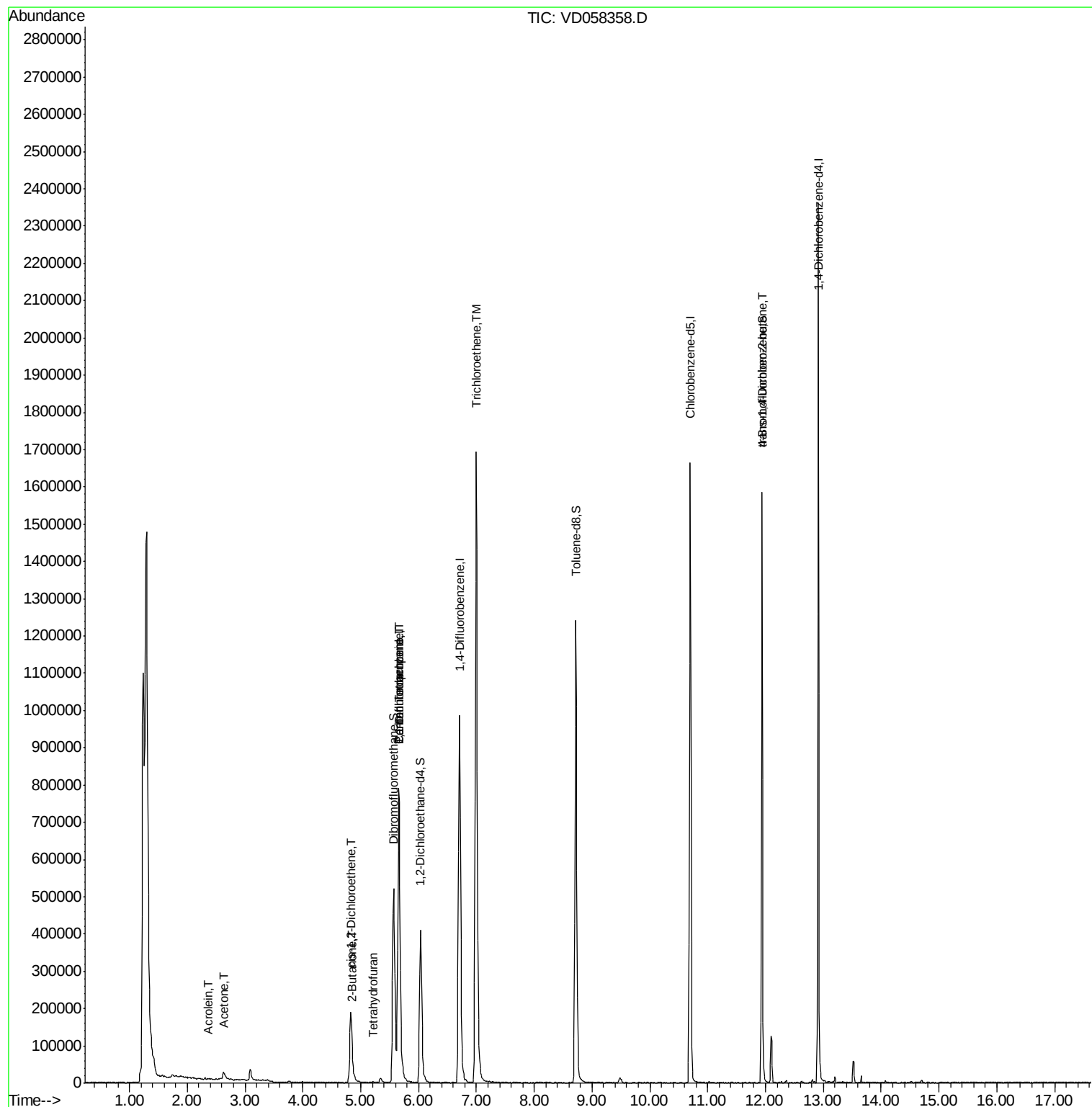
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.38	85	863	Below Cal	#	43
3) Chloromethane	1.48	50	437	Below Cal	#	43
5) Bromomethane	1.84	94	281	Below Cal	#	3
13) Acrolein	2.37	56	180	1.15	ug/l	11
16) Acetone	2.63	43	45022	39.62	ug/l	90
20) Methylene Chloride	3.09	84	11141	Below Cal		96
25) 2-Butanone	4.86	43	4368	1.76	ug/l	60
27) cis-1,2-Dichloroethene	4.83	96	118244	15.32	ug/l	87
29) Tetrahydrofuran	5.21	42	2337	1.77	ug/l	53
31) Cyclohexane	5.66	56	17865	Below Cal	#	1
36) 1,1-Dichloropropene	5.67	75	67863	6.35	ug/l	51
38) Carbon Tetrachloride	5.66	117	69605	6.56	ug/l	15
44) Trichloroethene	7.00	130	700617	91.66	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.94	75	198086	114.26	ug/l	1
82) 4-Chlorotoluene	12.33	91	656	Below Cal	#	45

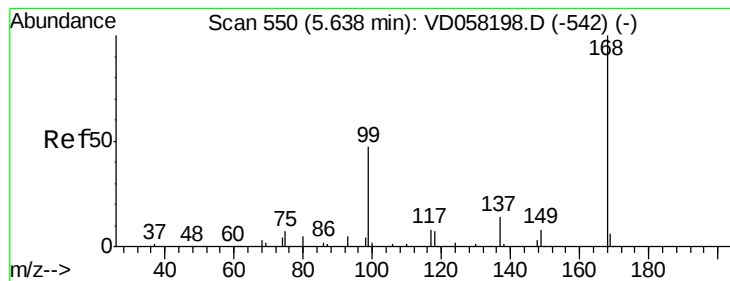
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 553

Delta R.T. 0.03 min

Lab File: VD058358.D

Acq: 23 Jun 2018 23:21

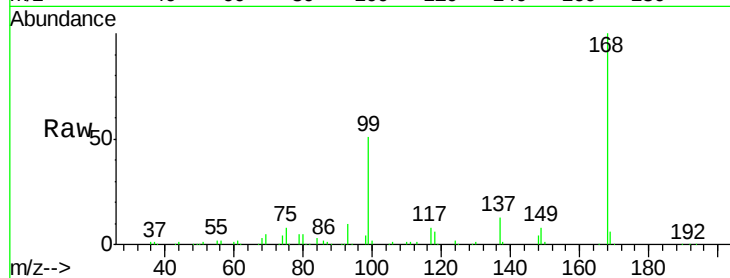
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 822546

Ion Ratio Lower Upper

168 100

99 51.0 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.67

300000

250000

200000

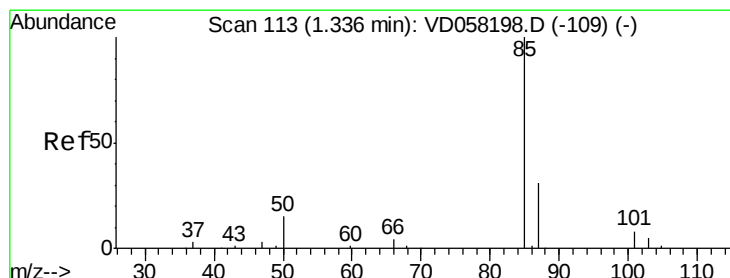
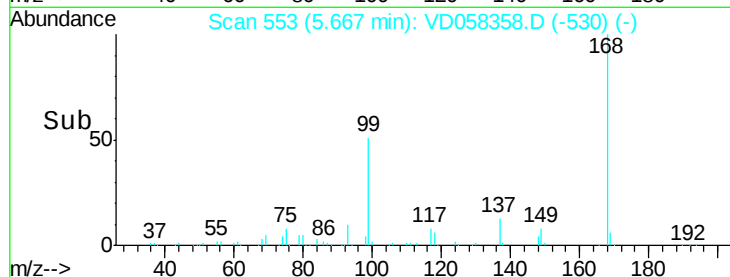
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.38 min Scan# 117

Delta R.T. 0.04 min

Lab File: VD058358.D

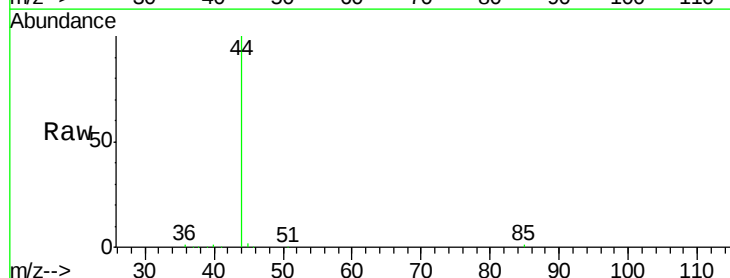
Acq: 23 Jun 2018 23:21

Tgt Ion: 85 Resp: 863

Ion Ratio Lower Upper

85 100

87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.38

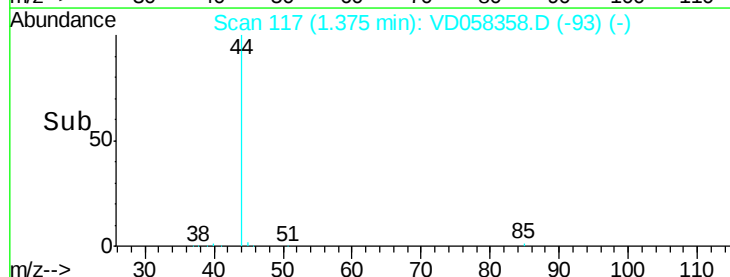
600

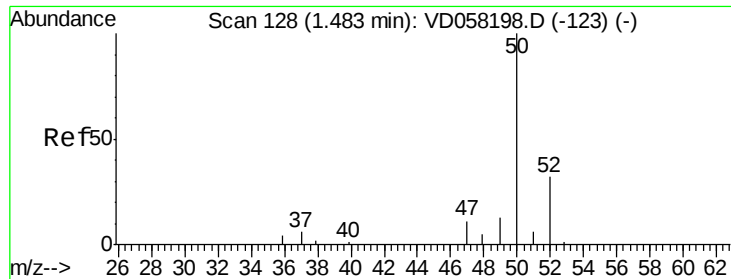
400

200

0

Time--> 1.35 1.40





#3

Chloromethane

Concen: Below Cal

RT: 1.48 min Scan# 128

Delta R.T. 0.00 min

Lab File: VD058358.D

Acq: 23 Jun 2018 23:21

Instrument :

MSVOA_D

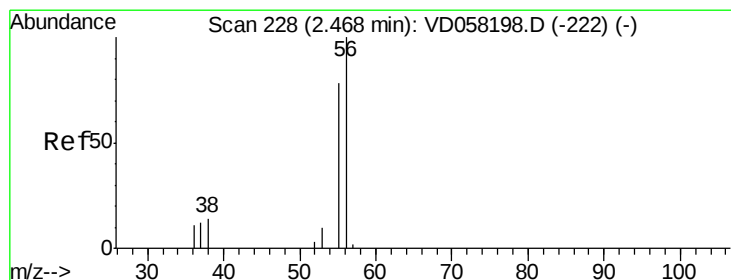
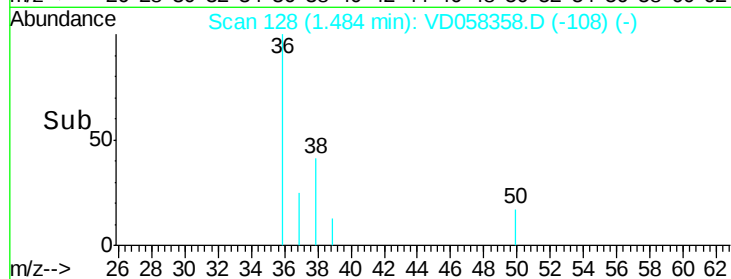
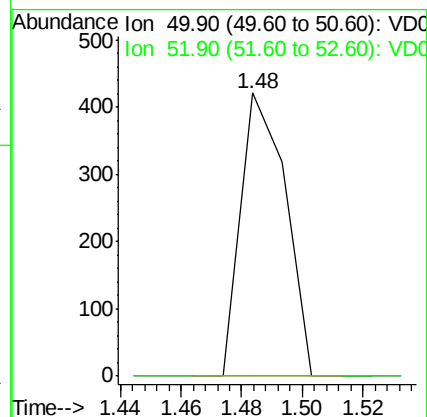
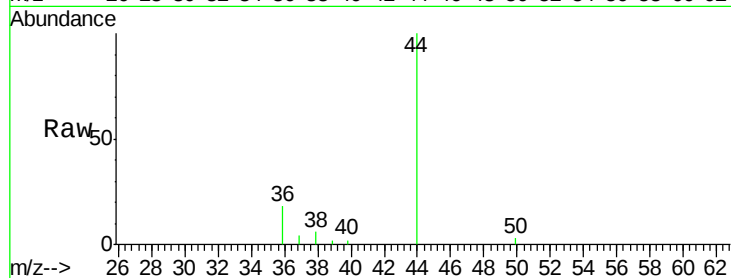
ClientSampleId :

Tot Ion: 50 Resp: 437

Ion Ratio Lower Upper

50 100

52 0.0 25.0 37.4#



#13

Acrolein

Concen: 1.15 ug/l

RT: 2.37 min Scan# 218

Delta R.T. -0.10 min

Lab File: VD058358.D

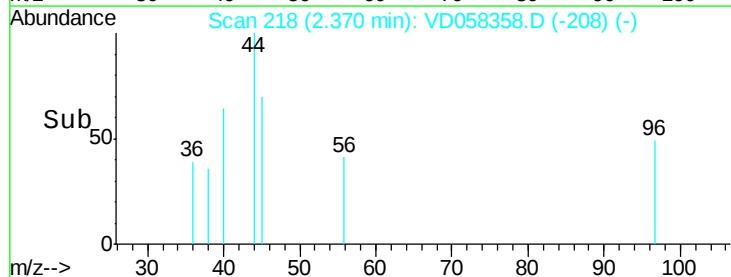
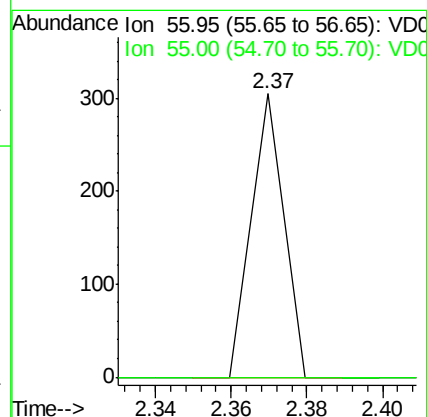
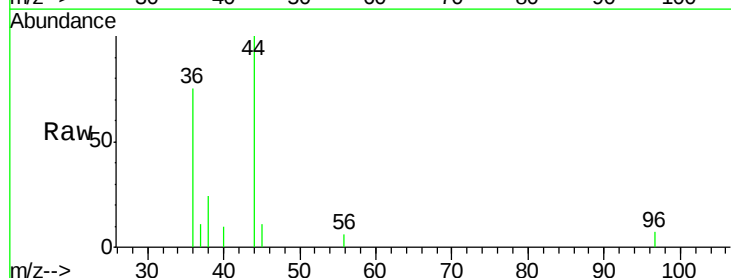
Acq: 23 Jun 2018 23:21

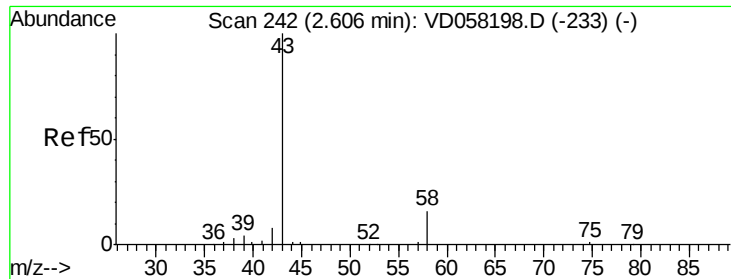
Tgt Ion: 56 Resp: 180

Ion Ratio Lower Upper

56 100

55 0.0 62.1 93.1#





#16

Acetone

Concen: 39.62 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD058358.D

Acq: 23 Jun 2018 23:21

Instrument :

MSVOA_D

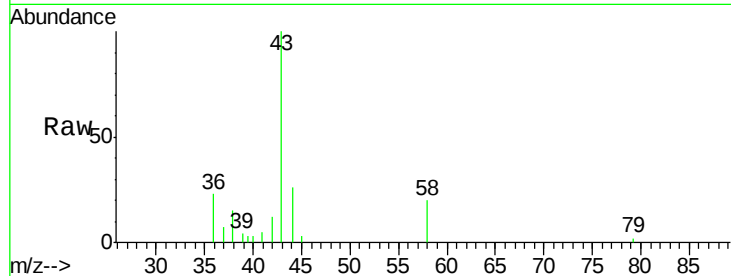
ClientSampleId :

Tot Ion: 43 Resp: 45022

Ion Ratio Lower Upper

43 100

58 20.1 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.63

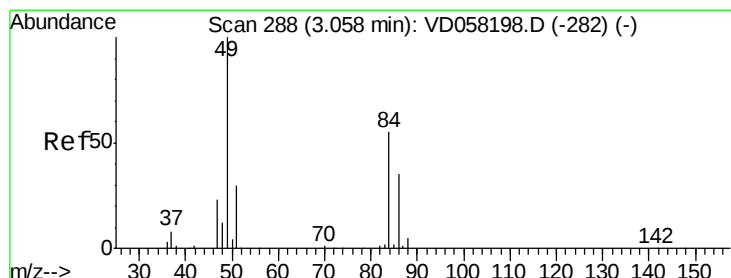
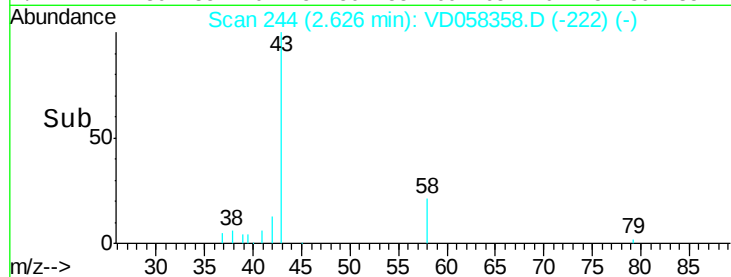
15000

10000

5000

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 3.09 min Scan# 291

Delta R.T. 0.03 min

Lab File: VD058358.D

Acq: 23 Jun 2018 23:21

Tgt Ion: 84 Resp: 11141

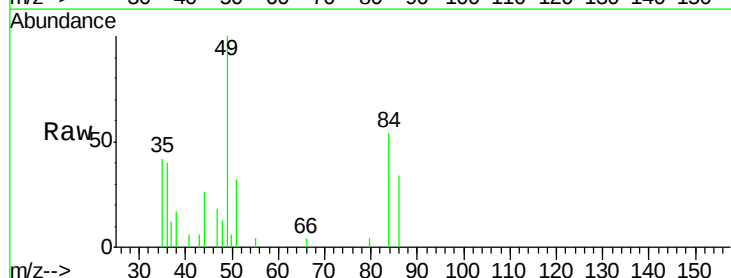
Ion Ratio Lower Upper

84 100

49 186.4 145.0 217.6

51 59.5 42.9 64.3

86 63.3 50.1 75.1



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

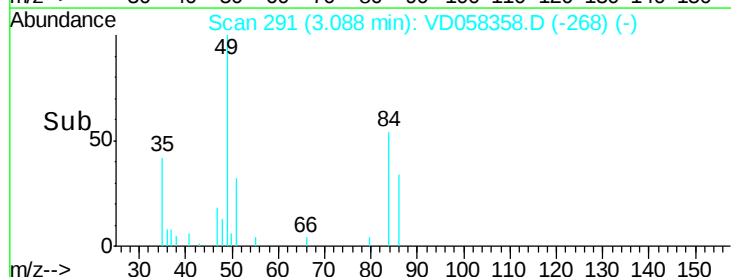
Ion 85.90 (85.60 to 86.60): VDC

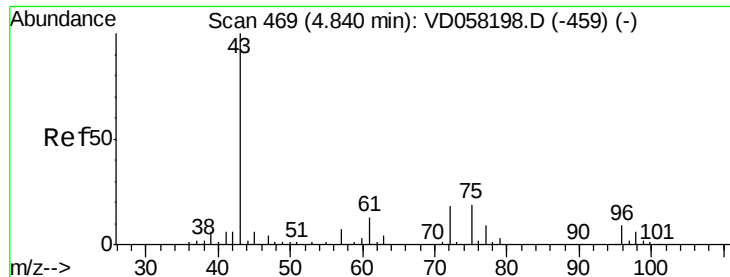
10000

5000

0

Time-->





#25

2-Butanone

Concen: 1.76 ug/l

RT: 4.86 min Scan# 471

Delta R.T. 0.02 min

Lab File: VD058358.D

Acq: 23 Jun 2018 23:21

Instrument :

MSVOA_D

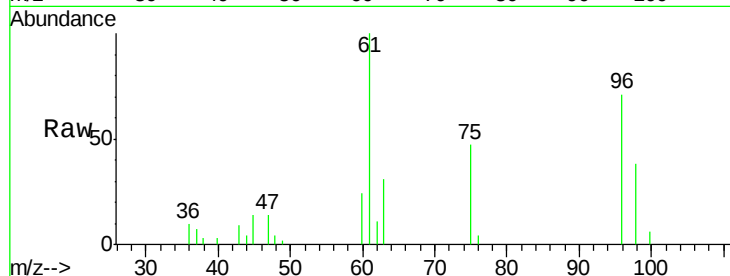
ClientSampleId :

Tot Ion: 43 Resp: 4368

Ion Ratio Lower Upper

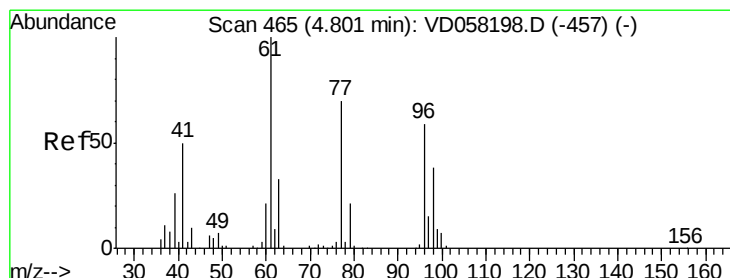
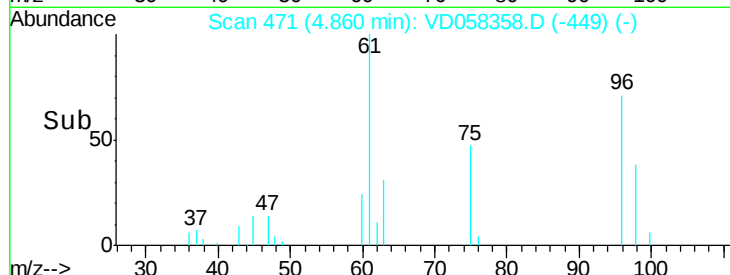
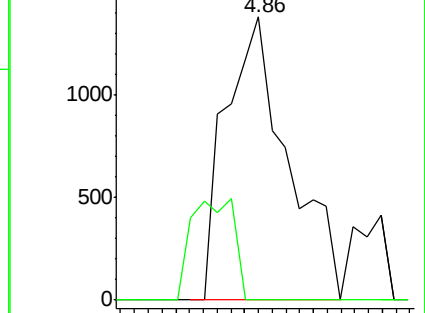
43 100

72 0.0 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#27

cis-1,2-Dichloroethene

Concen: 15.32 ug/l

RT: 4.83 min Scan# 468

Delta R.T. 0.03 min

Lab File: VD058358.D

Acq: 23 Jun 2018 23:21

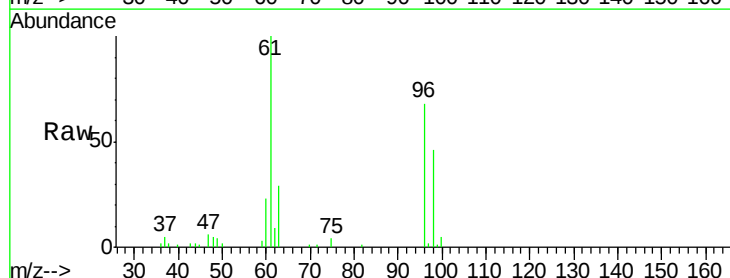
Tgt Ion: 96 Resp: 118244

Ion Ratio Lower Upper

96 100

61 146.2 0.0 338.6

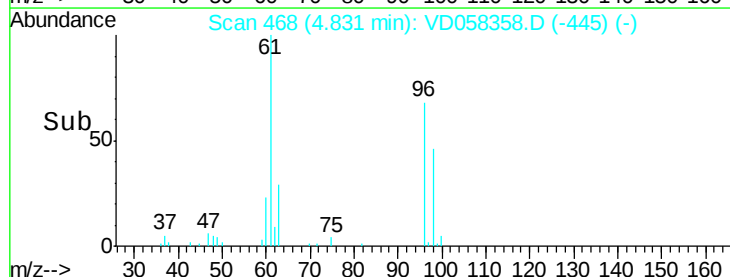
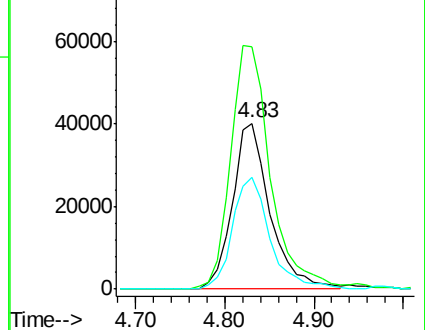
98 67.7 0.0 130.2

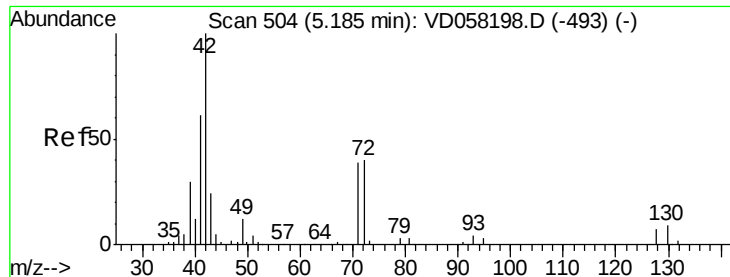


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC

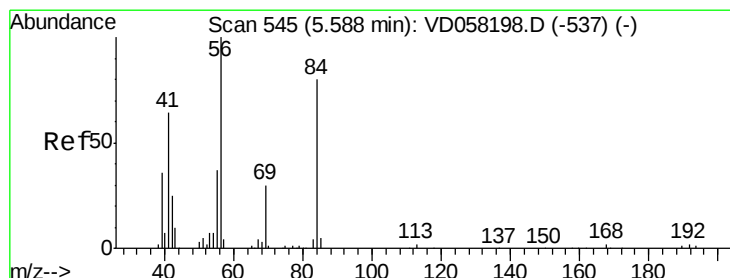
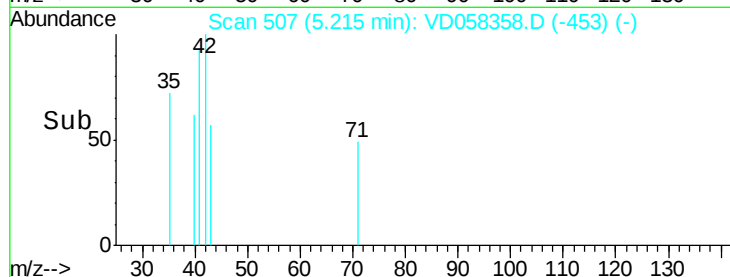
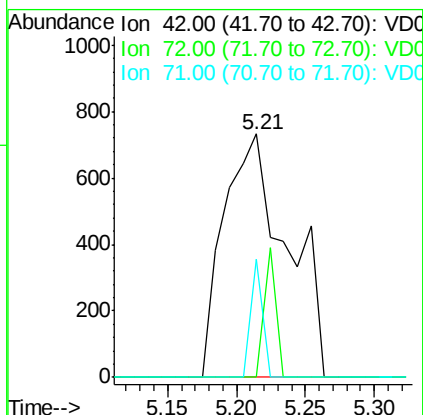
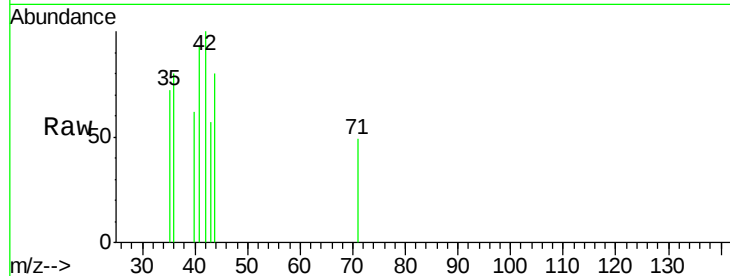




#29
Tetrahydrofuran
Concen: 1.77 ug/l
RT: 5.21 min Scan# 507
Delta R.T. 0.03 min
Lab File: VD058358.D
Acq: 23 Jun 2018 23:21

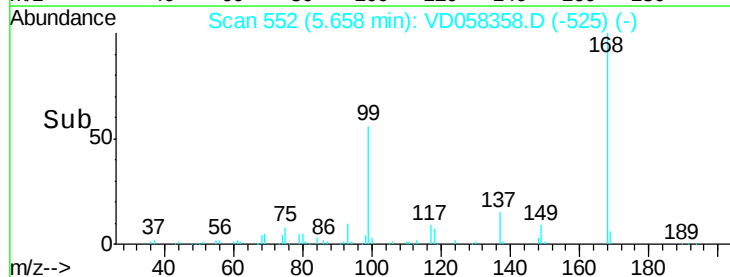
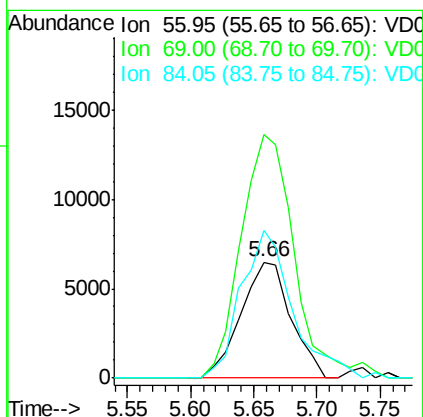
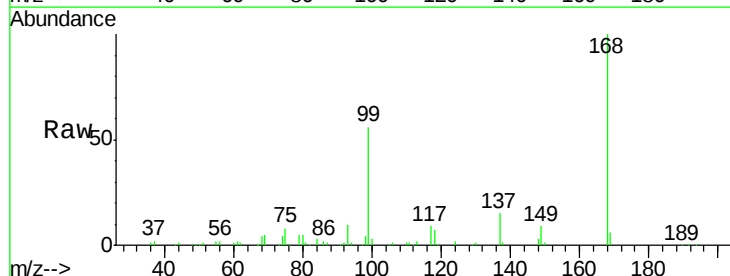
Instrument :
MSVOA_D
ClientSampled :

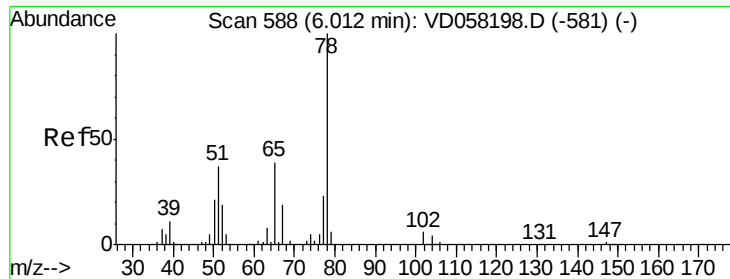
Tot Ion: 42 Resp: 2337
Ion Ratio Lower Upper
42 100
72 9.8 30.2 45.2#
71 9.0 30.1 45.1#



#31
Cyclohexane
Concen: Below Cal
RT: 5.66 min Scan# 552
Delta R.T. 0.07 min
Lab File: VD058358.D
Acq: 23 Jun 2018 23:21

Tgt Ion: 56 Resp: 17865
Ion Ratio Lower Upper
56 100
69 210.6 23.6 35.4#
84 128.0 65.2 97.8#

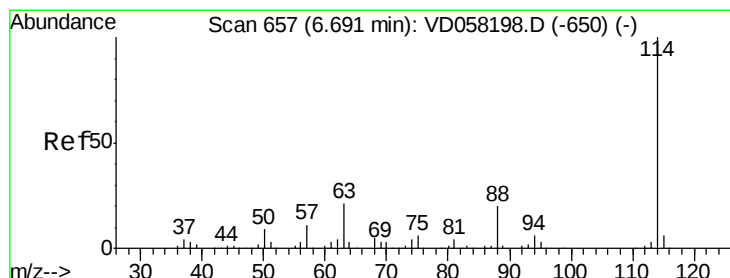
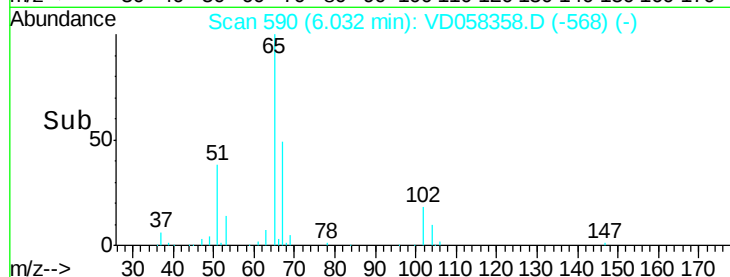
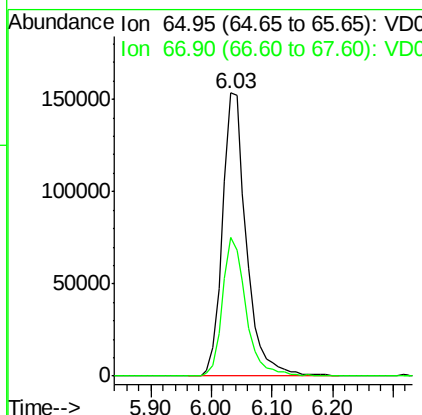
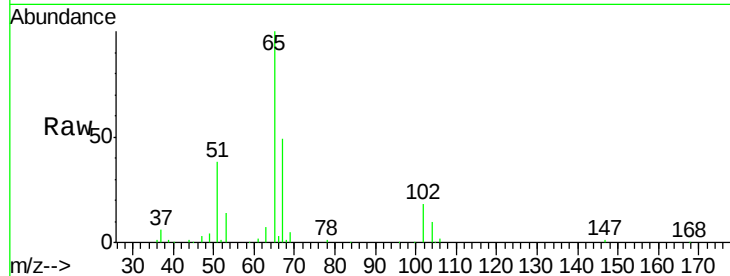




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 6.03 min Scan# 590
 Delta R.T. 0.02 min
 Lab File: VD058358.D
 Acq: 23 Jun 2018 23:21

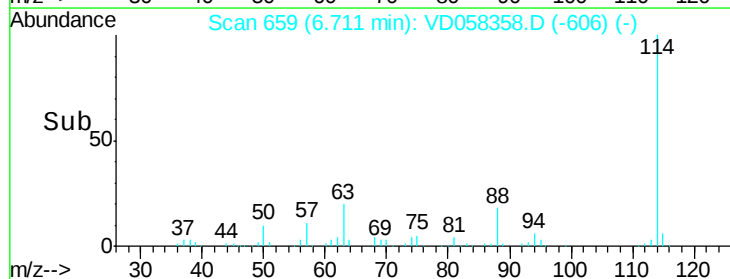
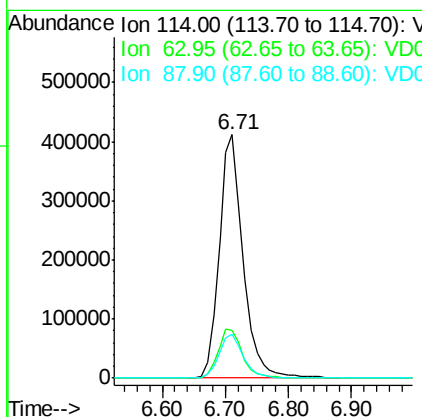
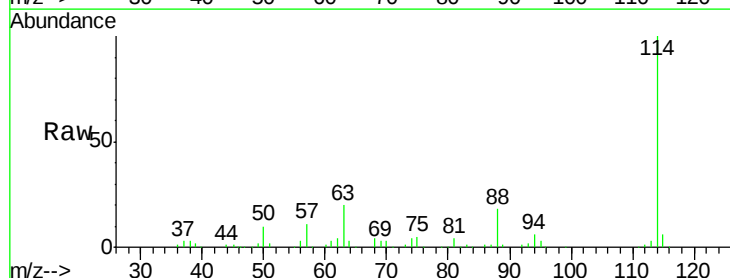
Instrument :
 MSVOA_D
 ClientSampleId :

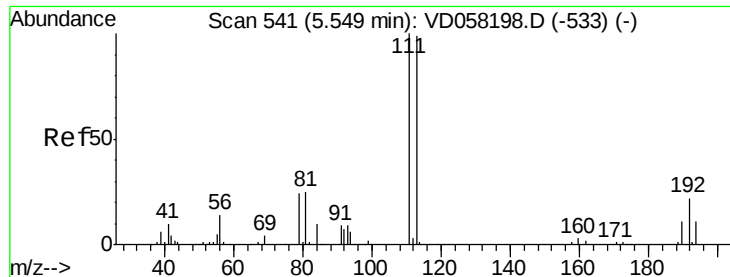
Tot Ion: 65 Resp: 420705
 Ion Ratio Lower Upper
 65 100
 67 48.8 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.71 min Scan# 659
 Delta R.T. 0.02 min
 Lab File: VD058358.D
 Acq: 23 Jun 2018 23:21

Tgt Ion: 114 Resp: 1080199
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 42.6
 88 18.0 0.0 40.6





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.57 min Scan# 543

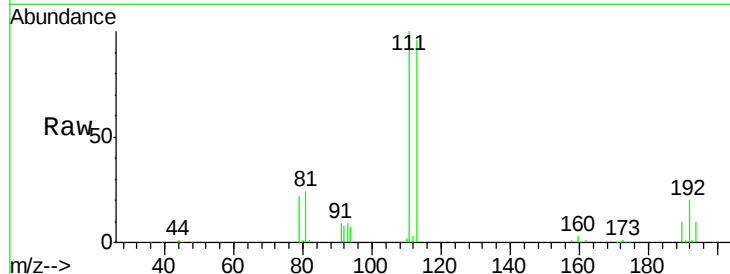
Delta R.T. 0.02 min

Lab File: VD058358.D

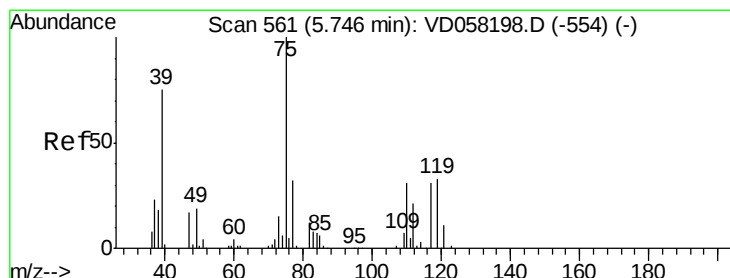
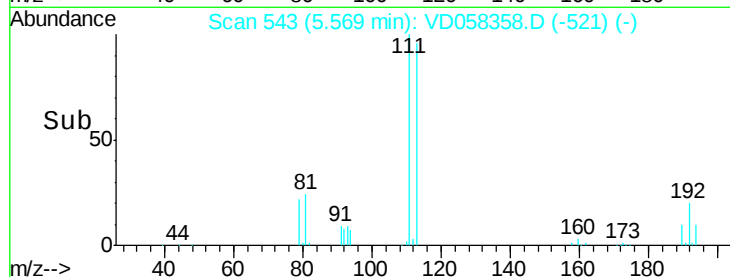
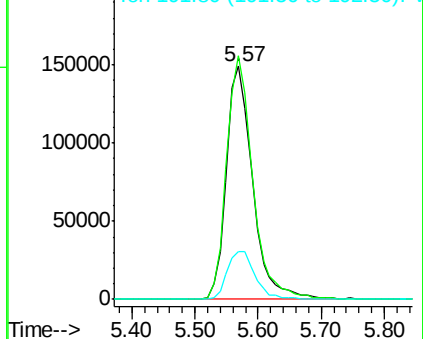
Acq: 23 Jun 2018 23:21

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	113	Resp:	429092
Ion	Ratio	Lower	Upper
113	100		
111	104.6	80.6	121.0
192	20.5	17.8	26.6



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: 6.35 ug/l

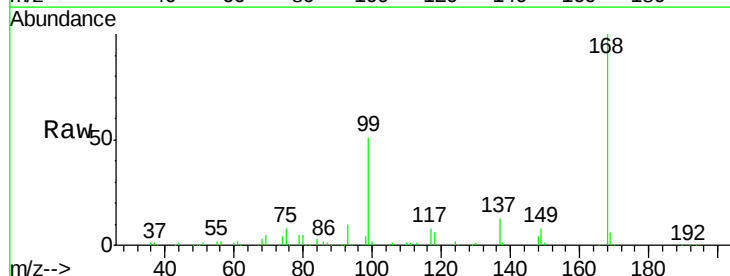
RT: 5.67 min Scan# 553

Delta R.T. -0.08 min

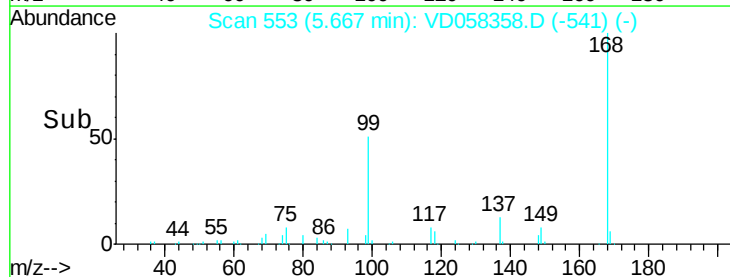
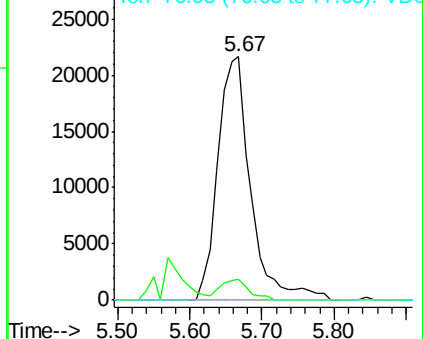
Lab File: VD058358.D

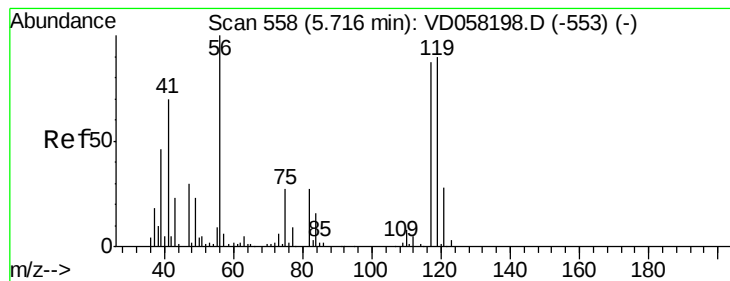
Acq: 23 Jun 2018 23:21

Tgt Ion:	75	Resp:	67863
Ion	Ratio	Lower	Upper
75	100		
110	8.4	15.4	46.4#
77	0.0	25.4	38.2#



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





#38

Carbon Tetrachloride

Concen: 6.56 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.06 min

Lab File: VD058358.D

Acq: 23 Jun 2018 23:21

Instrument :

MSVOA_D

ClientSampleId :

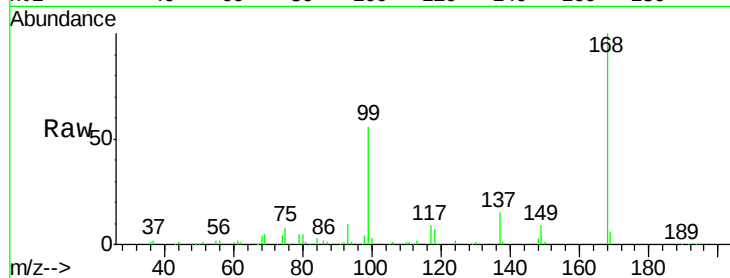
Tot Ion:117 Resp: 69605

Ion Ratio Lower Upper

117 100

119 5.3 78.8 118.2#

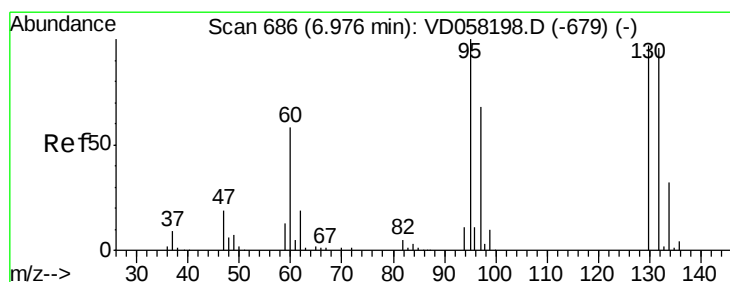
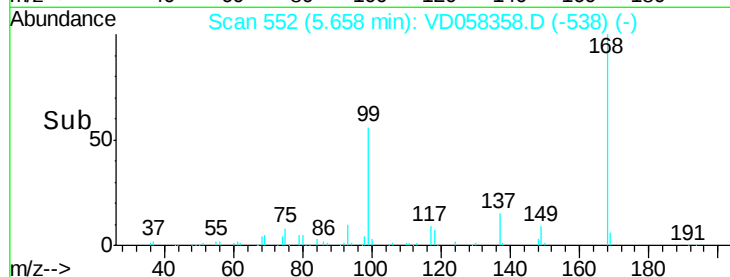
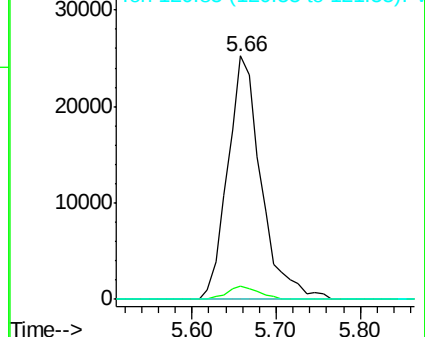
121 0.0 25.0 37.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#44

Trichloroethene

Concen: 91.66 ug/l

RT: 7.00 min Scan# 688

Delta R.T. 0.02 min

Lab File: VD058358.D

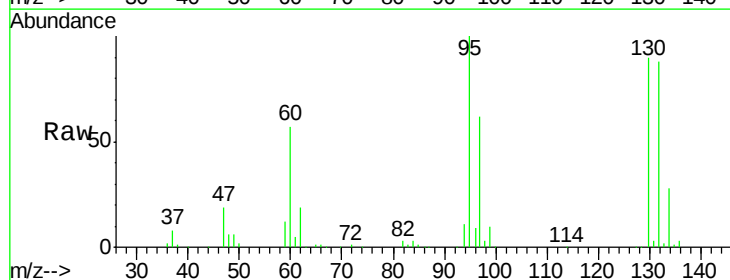
Acq: 23 Jun 2018 23:21

Tgt Ion:130 Resp: 700617

Ion Ratio Lower Upper

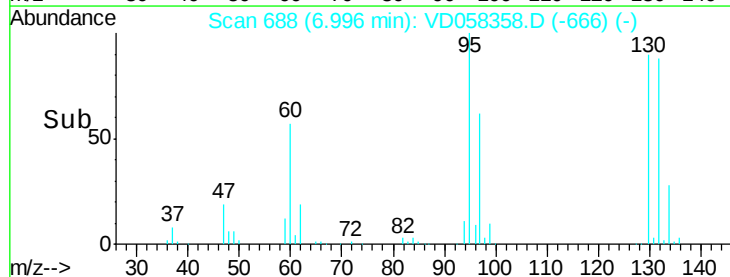
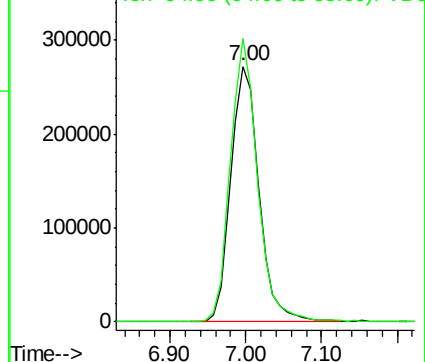
130 100

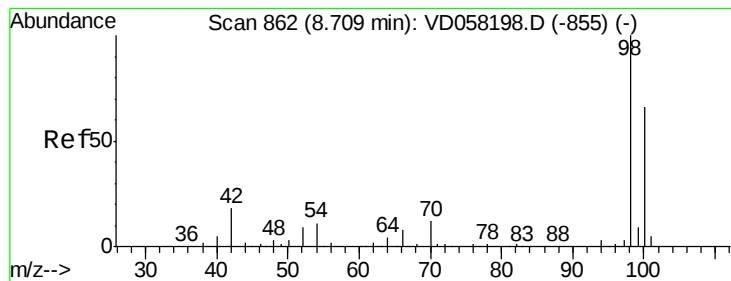
95 110.8 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058358.D

Acq: 23 Jun 2018 23:21

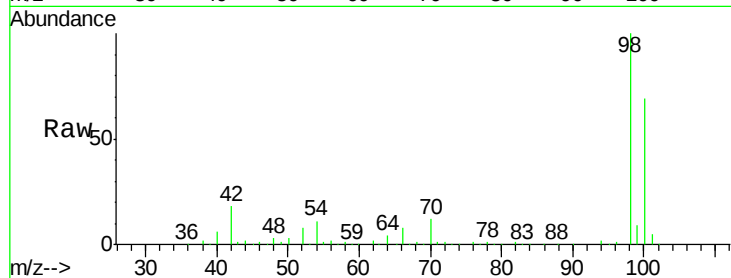
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 982089

Ion Ratio Lower Upper

98 100

100 69.2 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VD058198.D (-855) (-)

Ion 100.05 (99.75 to 100.75): VD058198.D (-855) (-)

8.72

400000

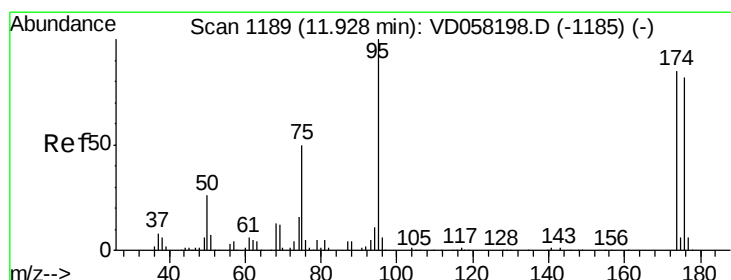
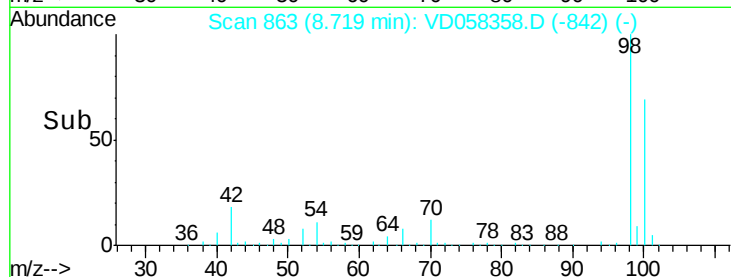
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058358.D

Acq: 23 Jun 2018 23:21

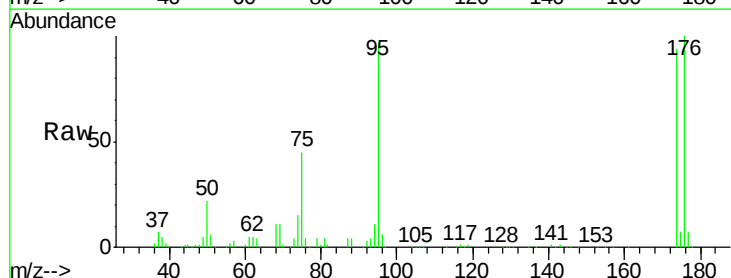
Tgt Ion: 95 Resp: 422242

Ion Ratio Lower Upper

95 100

174 97.1 0.0 170.2

176 102.8 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): VD058198.D (-1185) (-)

Ion 173.90 (173.60 to 174.60): VD058198.D (-1185) (-)

Ion 175.90 (175.60 to 176.60): VD058198.D (-1185) (-)

11.94

400000

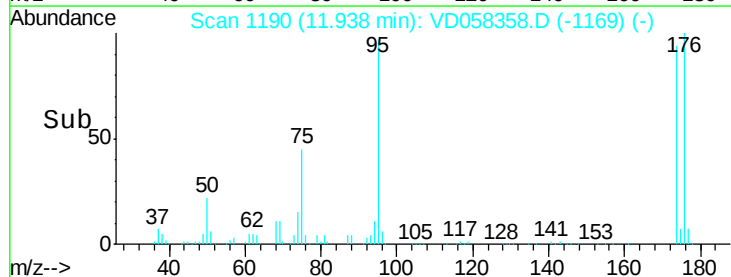
300000

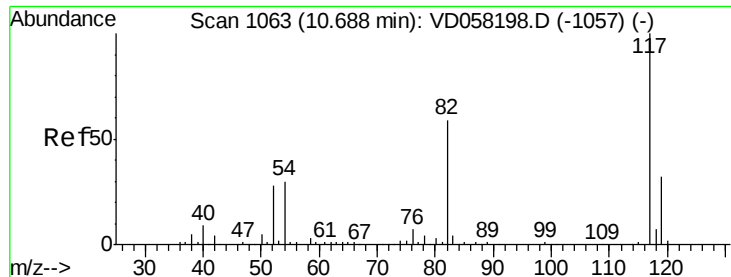
200000

100000

0

Time-->

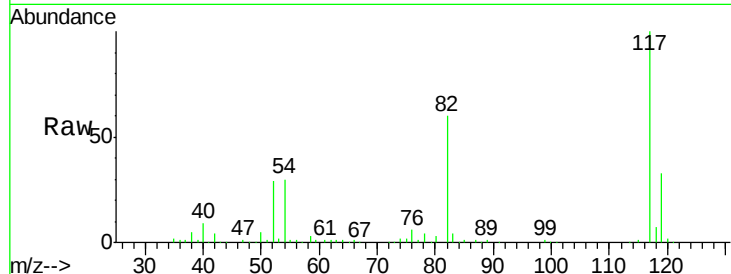




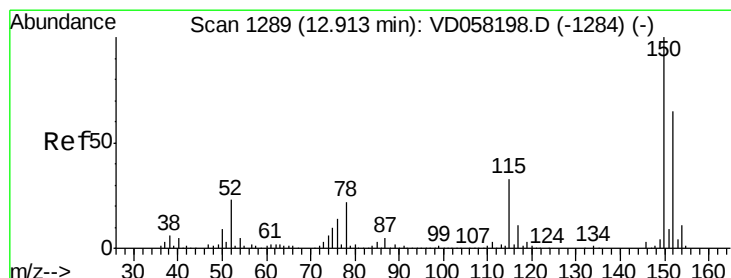
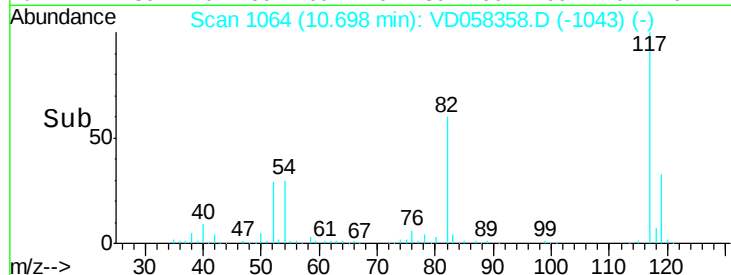
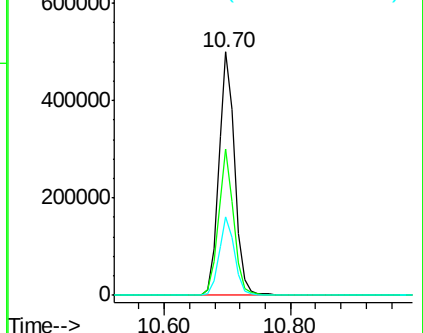
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058358.D
Acq: 23 Jun 2018 23:21

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 890284
Ion Ratio Lower Upper
117 100
82 60.3 47.0 70.6
119 32.5 25.3 37.9

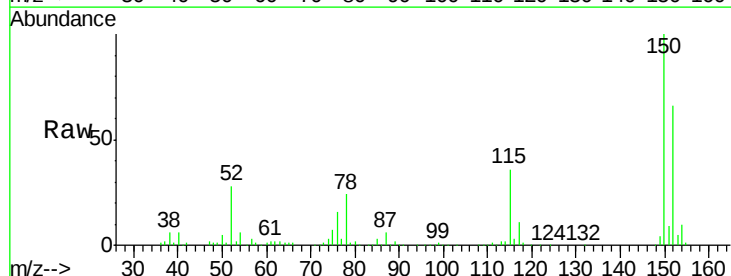


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

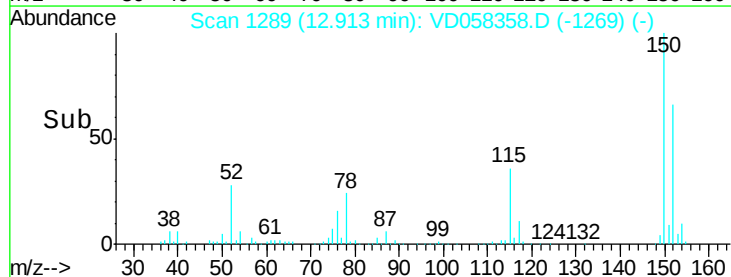
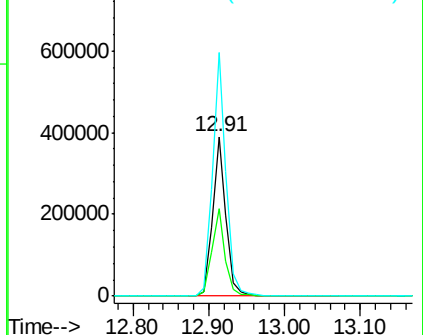


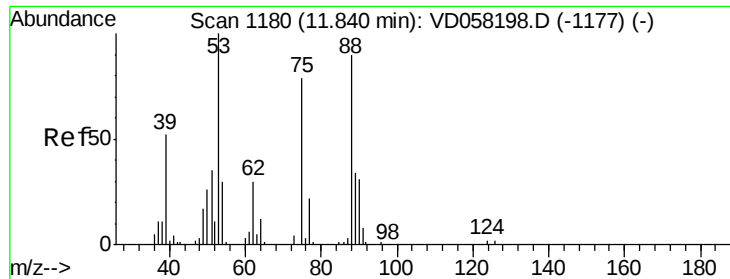
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VD058358.D
Acq: 23 Jun 2018 23:21

Tgt Ion:152 Resp: 486867
Ion Ratio Lower Upper
152 100
115 54.7 25.1 75.3
150 152.4 0.0 308.8



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: 114.26 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058358.D

Acq: 23 Jun 2018 23:21

Instrument :

MSVOA_D

ClientSampleId :

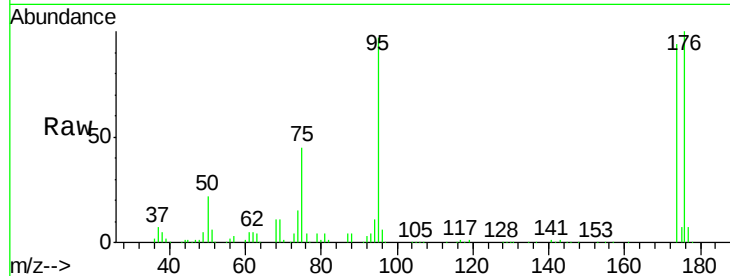
Tot Ion: 75 Resp: 198086

Ion Ratio Lower Upper

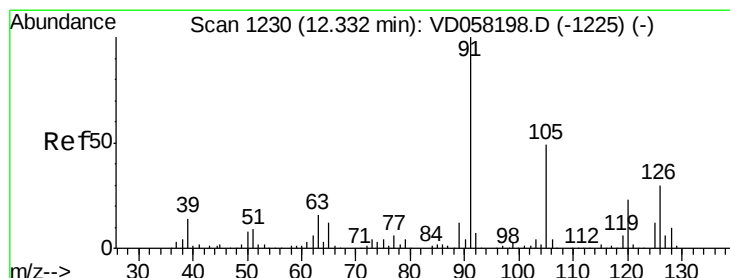
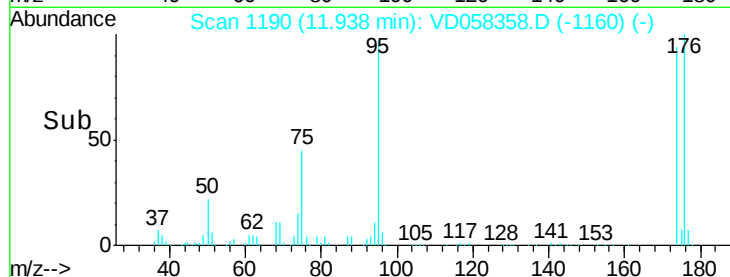
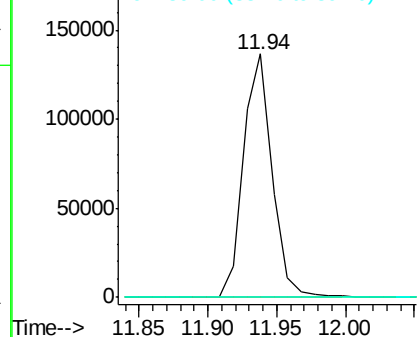
75 100

53 0.0 100.8 151.2#

89 0.0 34.6 52.0#



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



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.33 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VD058358.D

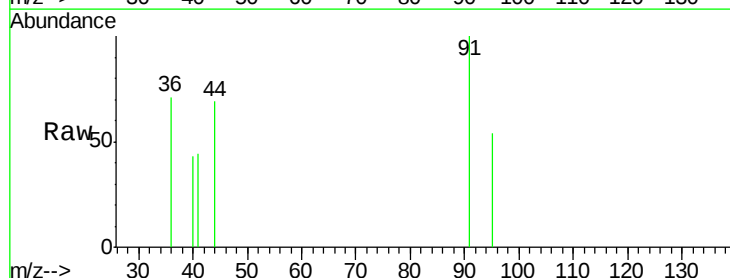
Acq: 23 Jun 2018 23:21

Tgt Ion: 91 Resp: 656

Ion Ratio Lower Upper

91 100

126 0.0 14.9 44.9#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

