

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111318\
 Data File : VD060358.D
 Acq On : 13 Nov 2018 14:06
 Operator : JC/SY
 Sample : J5901-02
 Misc : 5.43g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 14 05:49:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 06 13:56:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.42	168	1684383	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.45	114	2412066	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.29	117	1903742	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	944127	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.79	65	560035	46.44	ug/l	0.00
Spiked Amount			Recovery	=	92.88%	
35) Dibromofluoromethane	6.33	113	781084	43.43	ug/l	0.00
Spiked Amount			Recovery	=	86.86%	
50) Toluene-d8	9.47	98	2229695	42.36	ug/l	0.00
Spiked Amount			Recovery	=	84.72%	
62) 4-Bromofluorobenzene	12.43	95	772479	40.50	ug/l	0.00
Spiked Amount			Recovery	=	81.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	225	Below Cal	#	41
11) Tert butyl alcohol	3.96	59	4895	9.884	ug/l #	70
16) Acetone	3.17	43	62021	29.647	ug/l	95
18) Methyl Acetate	3.57	43	5313	1.191	ug/l #	63
20) Methylene Chloride	3.73	84	38528	2.076	ug/l	97
25) 2-Butanone	5.66	43	42303	9.728	ug/l #	81
26) 2,2-Dichloropropane	5.66	77	39743	1.697	ug/l #	50
31) Cyclohexane	6.41	56	33464	1.162	ug/l #	1
36) 1,1-Dichloropropene	6.42	75	118708	4.981	ug/l #	47
37) Ethyl Acetate	5.66	43	42303	3.858	ug/l #	7
38) Carbon Tetrachloride	6.42	117	131802	5.962	ug/l #	15
51) 4-Methyl-2-Pentanone	9.46	43	11982	1.337	ug/l #	1
76) 1,2,3-Trichloropropane	12.43	75	246894	21.861	ug/l #	44
81) trans-1,4-Dichloro-2-buten	12.43	75	319575	99.390	ug/l #	15
89) n-Butylbenzene	13.65	91	430	Below Cal	#	73

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.42 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD060358.D

Acq: 13 Nov 2018 14:06

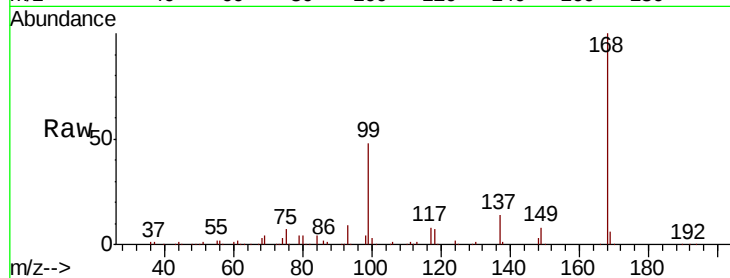
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 1684383

Ion Ratio Lower Upper

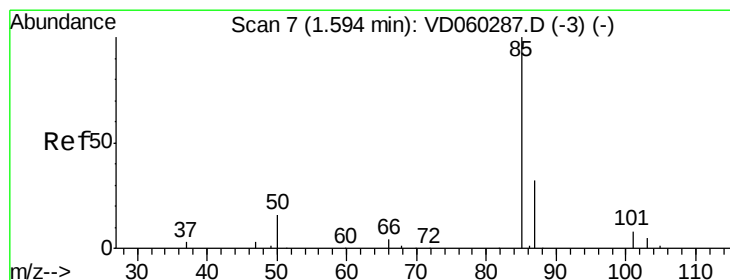
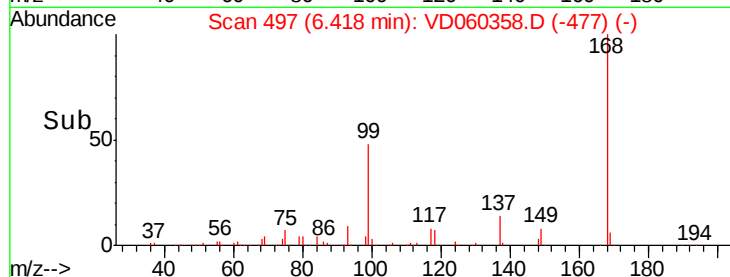
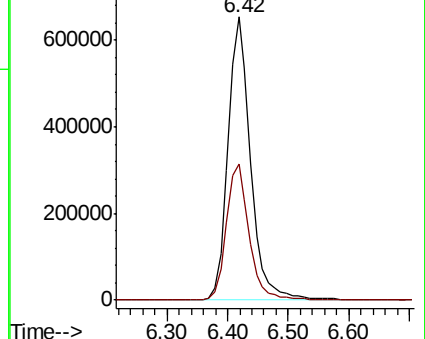
168 100

99 48.1 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.60 min Scan# 7

Delta R.T. 0.00 min

Lab File: VD060358.D

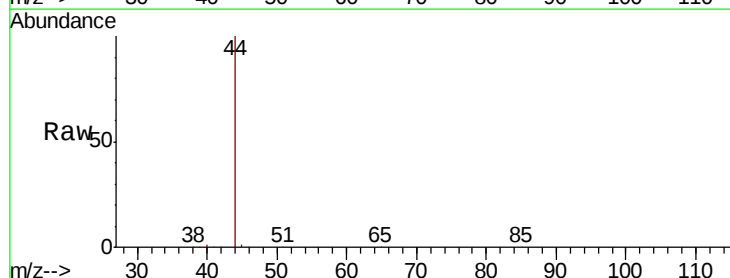
Acq: 13 Nov 2018 14:06

Tgt Ion: 85 Resp: 225

Ion Ratio Lower Upper

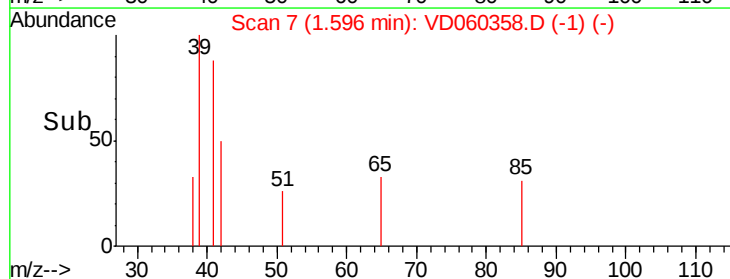
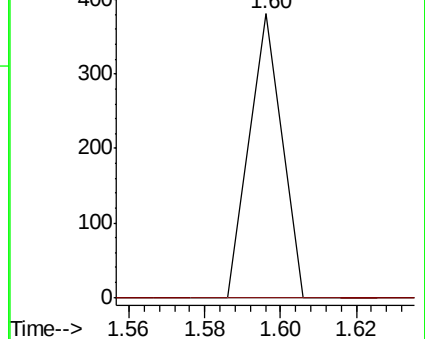
85 100

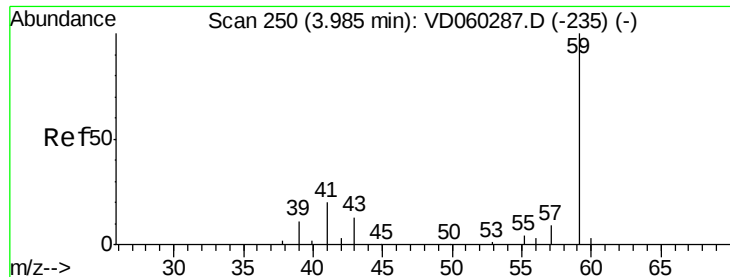
87 0.0 16.8 50.4#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

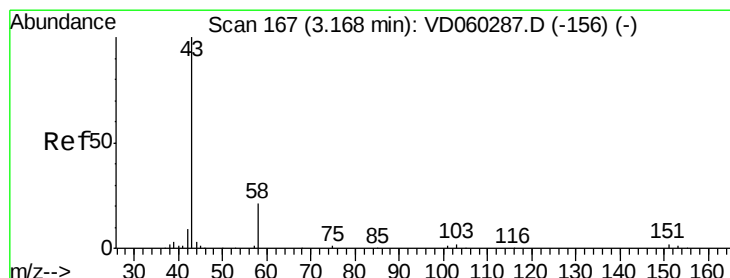
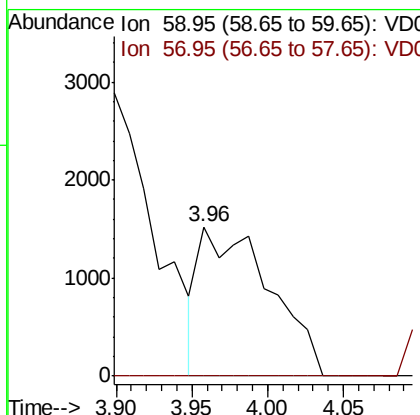
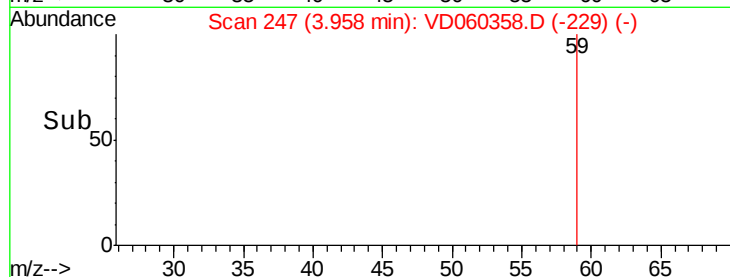
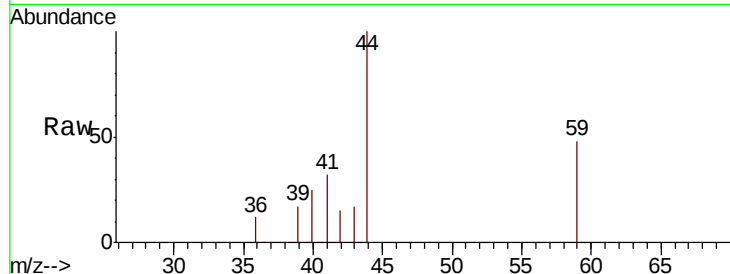




#11
Tert butyl alcohol
Concen: 9.884 ug/l
RT: 3.96 min Scan# 247
Delta R.T. -0.03 min
Lab File: VD060358.D
Acq: 13 Nov 2018 14:06

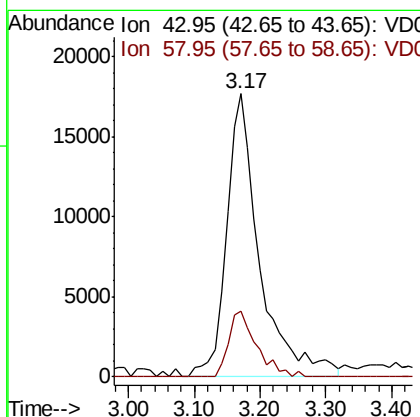
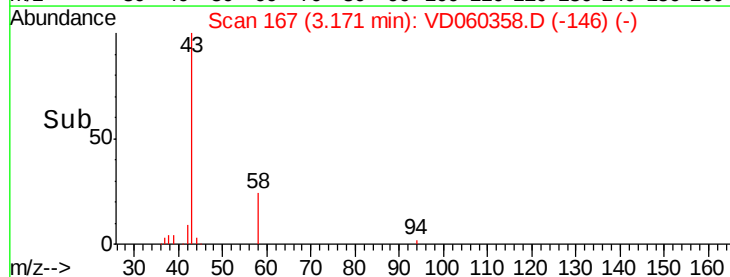
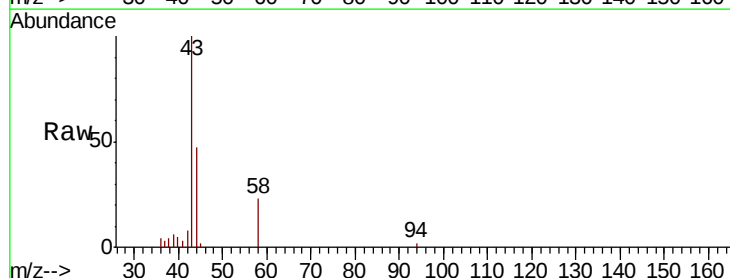
Instrument :
MSVOA_D
ClientSampleId :

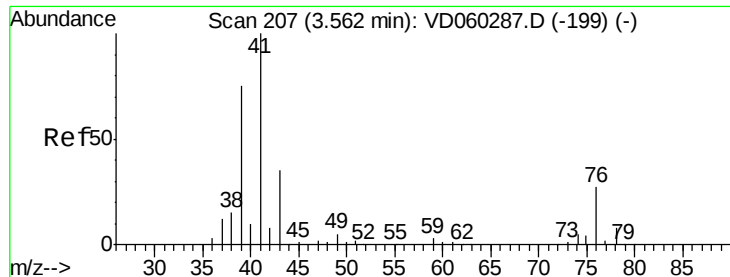
Tot Ion: 59 Resp: 4895
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#



#16
Acetone
Concen: 29.647 ug/l
RT: 3.17 min Scan# 167
Delta R.T. 0.00 min
Lab File: VD060358.D
Acq: 13 Nov 2018 14:06

Tgt Ion: 43 Resp: 62021
Ion Ratio Lower Upper
43 100
58 23.4 16.9 25.3

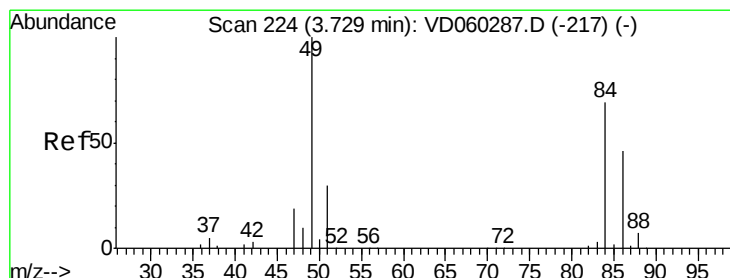
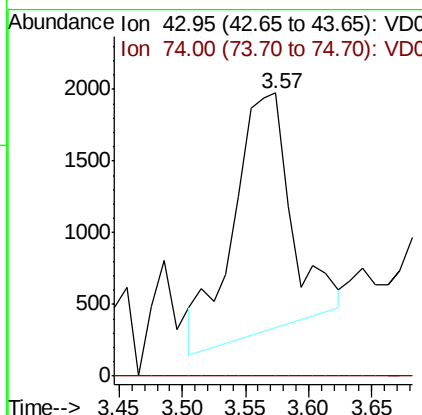
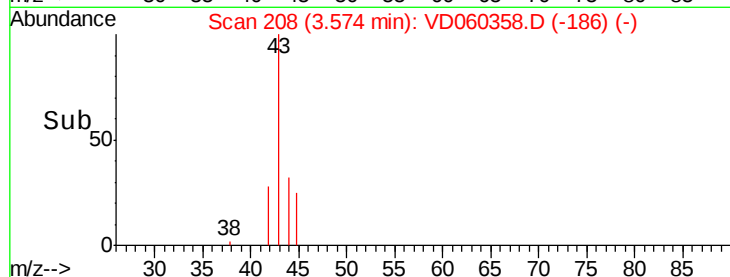
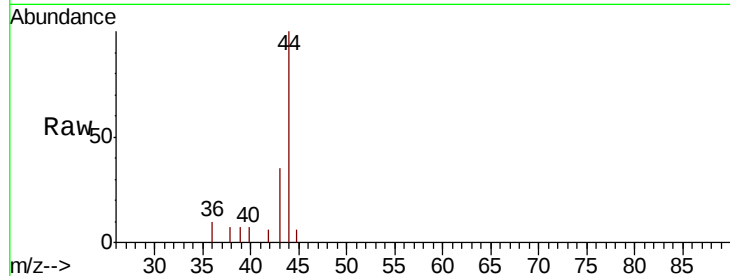




#18
Methyl Acetate
Concen: 1.191 ug/l
RT: 3.57 min Scan# 208
Delta R.T. 0.01 min
Lab File: VD060358.D
Acq: 13 Nov 2018 14:06

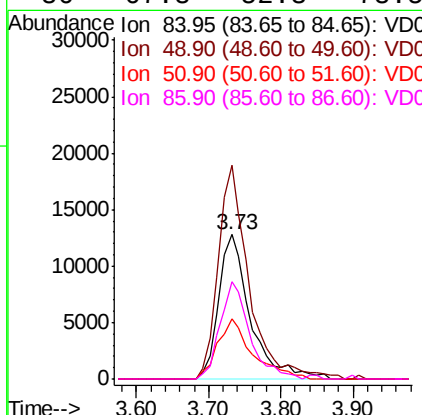
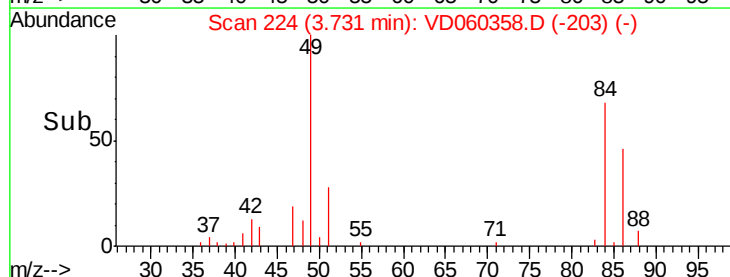
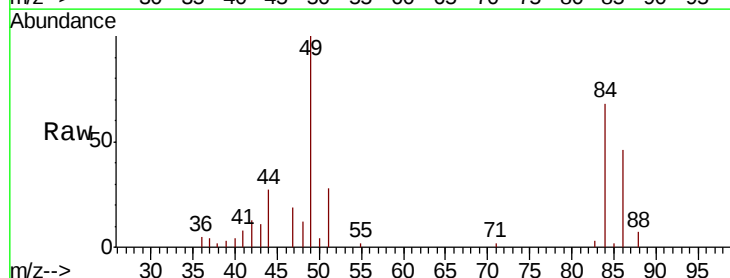
Instrument :
MSVOA_D
ClientSampled :

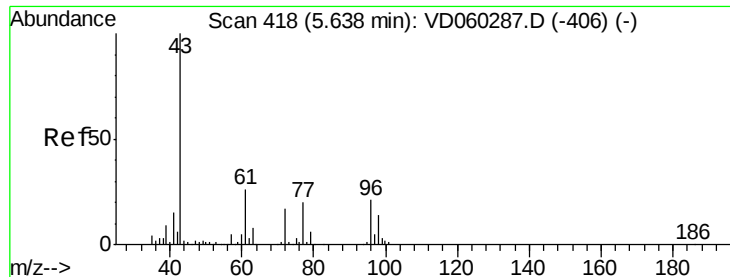
Tot Ion: 43 Resp: 5313
Ion Ratio Lower Upper
43 100
74 0.0 12.4 18.6#



#20
Methylene Chloride
Concen: 2.076 ug/l
RT: 3.73 min Scan# 224
Delta R.T. 0.00 min
Lab File: VD060358.D
Acq: 13 Nov 2018 14:06

Tgt Ion: 84 Resp: 38528
Ion Ratio Lower Upper
84 100
49 148.0 115.6 173.4
51 41.8 35.6 53.4
86 67.8 52.3 78.5





#25

2-Butanone

Concen: 9.728 ug/l

RT: 5.66 min Scan# 420

Delta R.T. 0.02 min

Lab File: VD060358.D

Acq: 13 Nov 2018 14:06

Instrument :

MSVOA_D

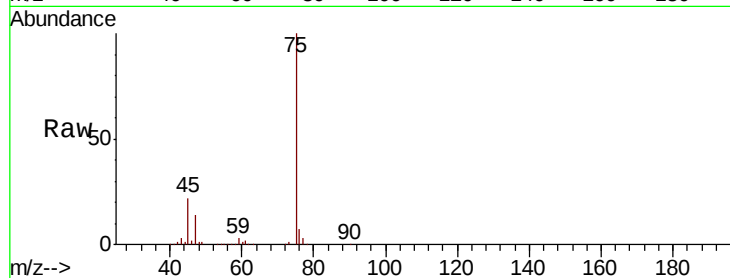
ClientSampled :

Tot Ion: 43 Resp: 42303

Ion Ratio Lower Upper

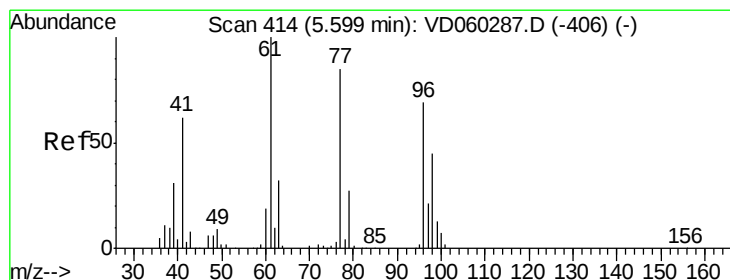
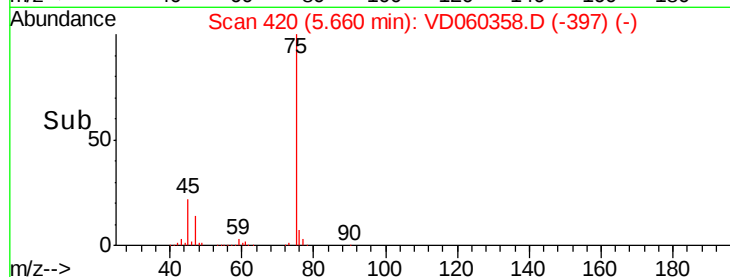
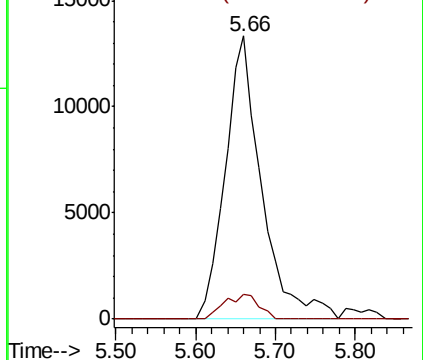
43 100

72 8.9 13.8 20.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 1.697 ug/l

RT: 5.66 min Scan# 420

Delta R.T. 0.06 min

Lab File: VD060358.D

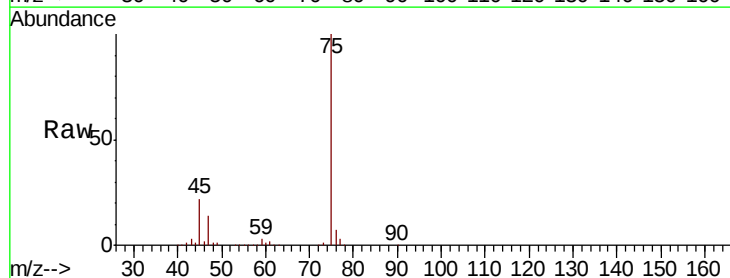
Acq: 13 Nov 2018 14:06

Tgt Ion: 77 Resp: 39743

Ion Ratio Lower Upper

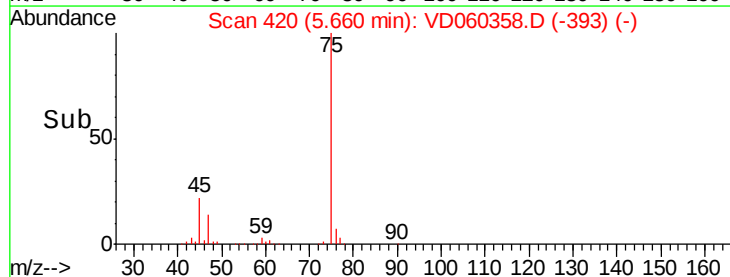
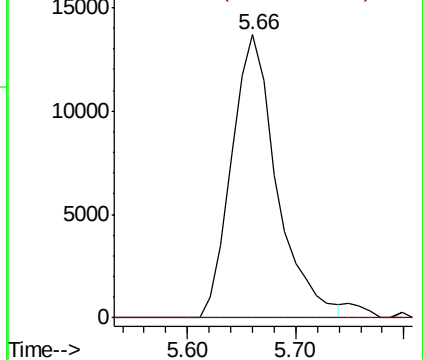
77 100

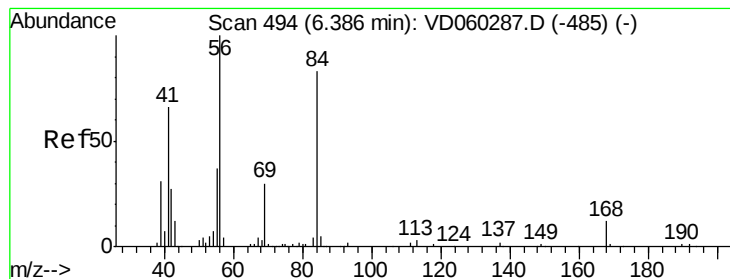
97 0.0 12.6 37.8#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#31

Cyclohexane

Concen: 1.162 ug/l

RT: 6.41 min Scan# 496

Delta R.T. 0.02 min

Lab File: VD060358.D

Acq: 13 Nov 2018 14:06

Instrument :

MSVOA_D

ClientSampleId :

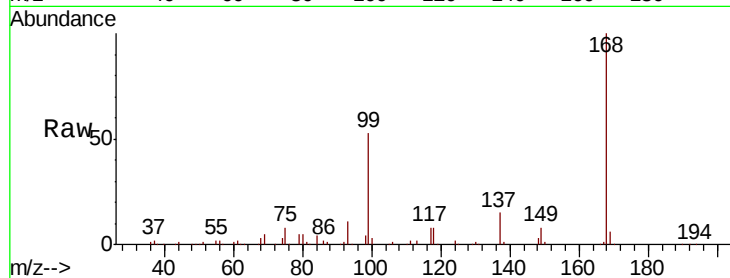
Tot Ion: 56 Resp: 33464

Ion Ratio Lower Upper

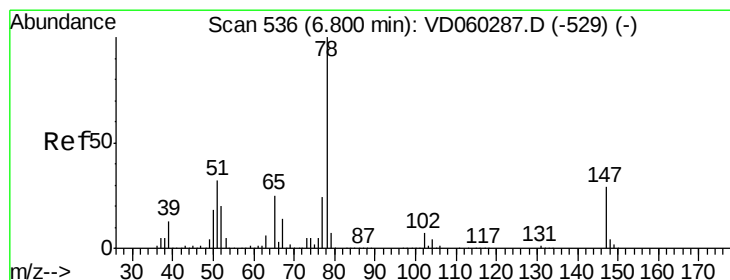
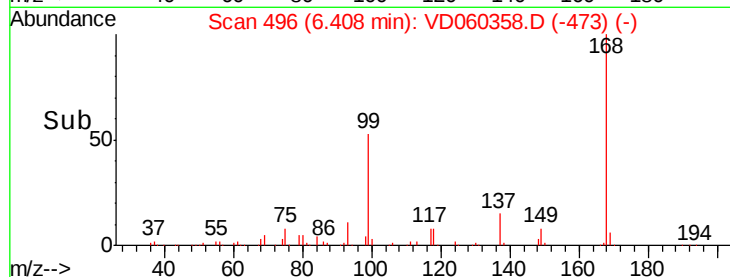
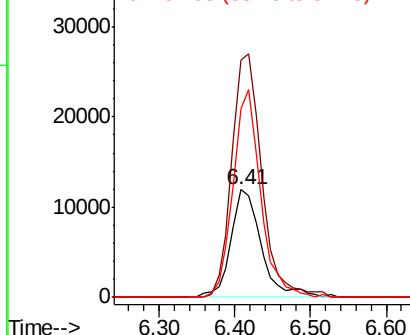
56 100

69 219.8 22.2 33.2#

84 175.3 63.0 94.4#



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: 6.79 min Scan# 535

Delta R.T. -0.01 min

Lab File: VD060358.D

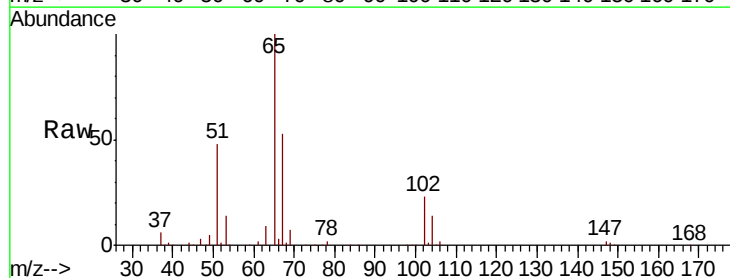
Acq: 13 Nov 2018 14:06

Tgt Ion: 65 Resp: 560035

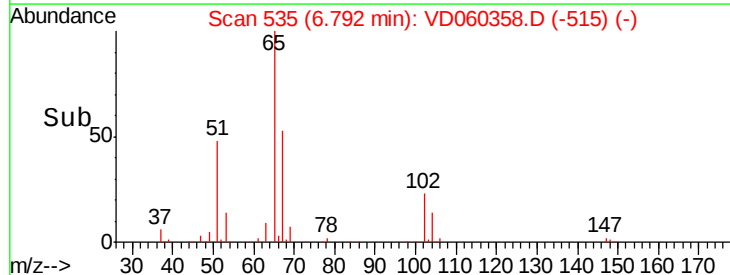
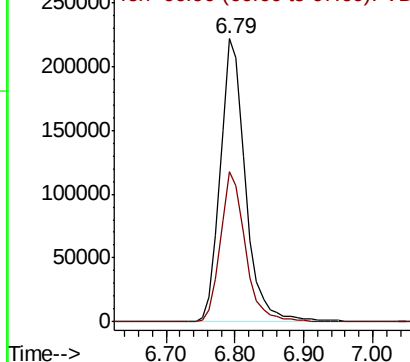
Ion Ratio Lower Upper

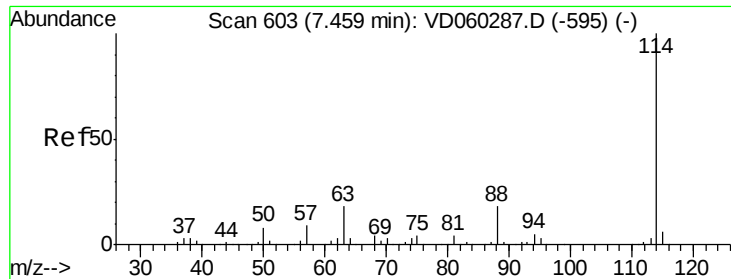
65 100

67 53.0 0.0 109.8



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

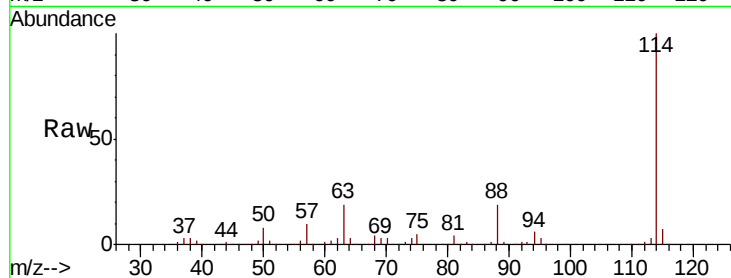




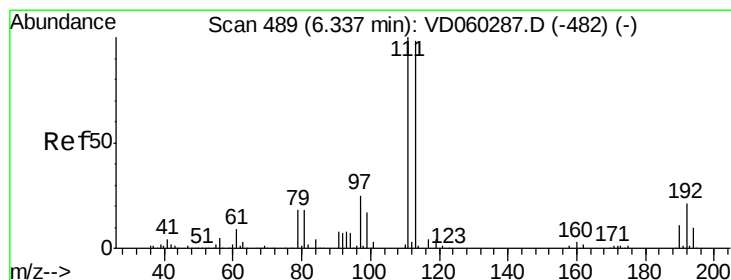
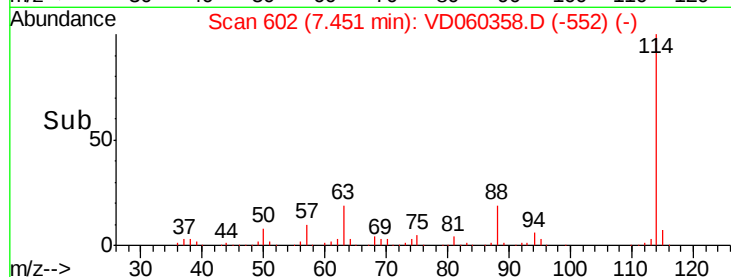
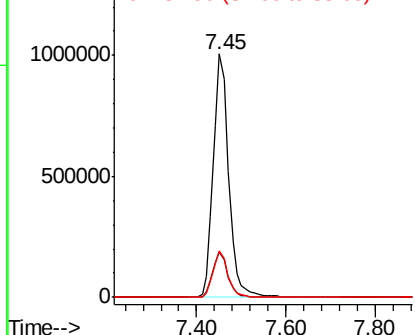
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 7.45 min Scan# 602
Delta R.T. -0.01 min
Lab File: VD060358.D
Acq: 13 Nov 2018 14:06

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:114 Resp: 2412066
Ion Ratio Lower Upper
114 100
63 18.8 0.0 34.0
88 19.0 0.0 35.4

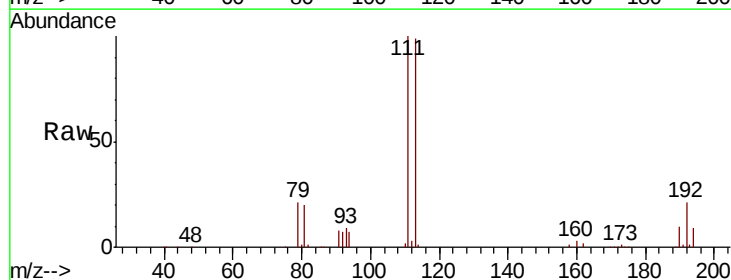


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 62.95 (62.65 to 63.65): V
Ion 87.90 (87.60 to 88.60): V

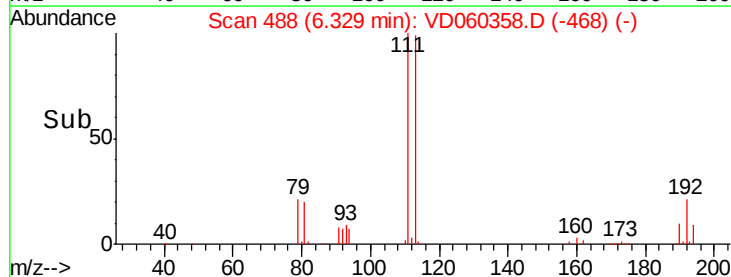
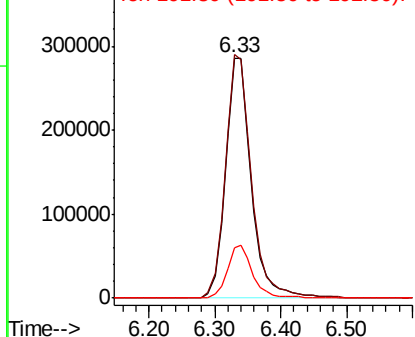


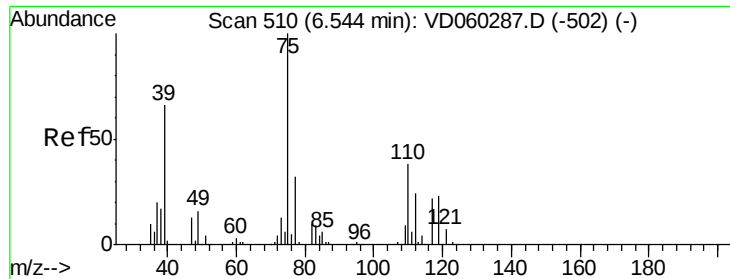
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.33 min Scan# 488
Delta R.T. -0.01 min
Lab File: VD060358.D
Acq: 13 Nov 2018 14:06

Tgt Ion:113 Resp: 781084
Ion Ratio Lower Upper
113 100
111 101.4 81.6 122.4
192 21.0 16.5 24.7



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: 4.981 ug/l

RT: 6.42 min Scan# 497

Delta R.T. -0.13 min

Lab File: VD060358.D

Acq: 13 Nov 2018 14:06

Instrument :

MSVOA_D

ClientSampleId :

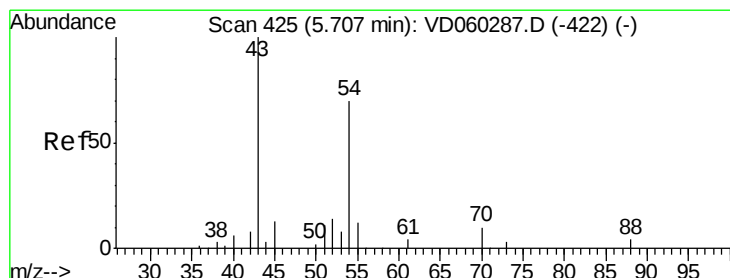
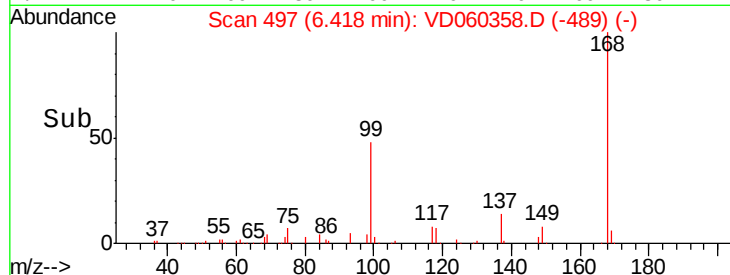
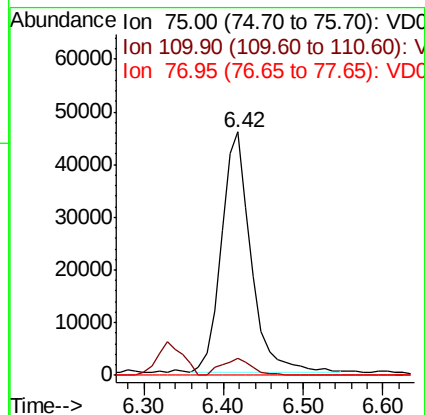
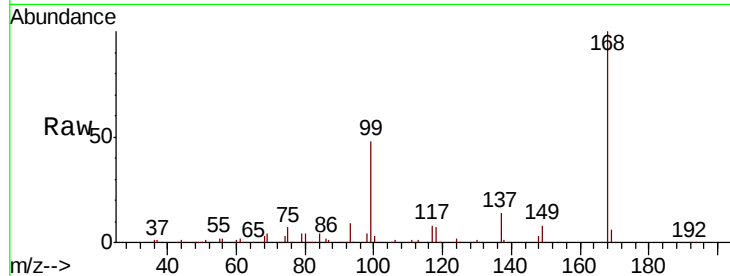
Tot Ion: 75 Resp: 118708

Ion Ratio Lower Upper

75 100

110 6.9 18.0 54.0#

77 0.0 25.6 38.4#



#37

Ethyl Acetate

Concen: 3.858 ug/l

RT: 5.66 min Scan# 420

Delta R.T. -0.05 min

Lab File: VD060358.D

Acq: 13 Nov 2018 14:06

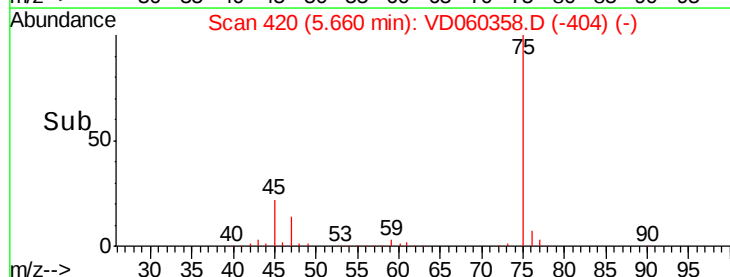
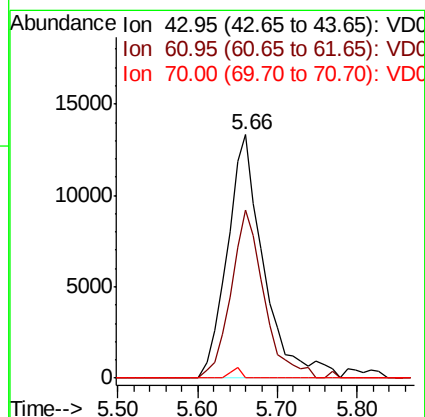
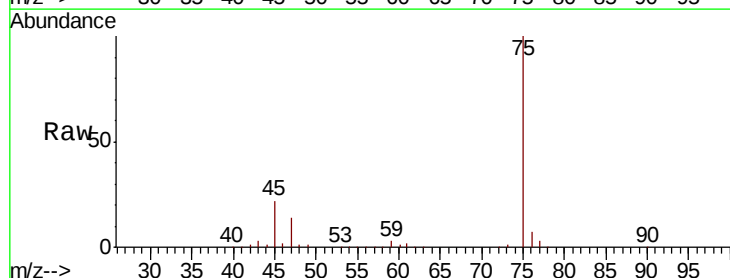
Tgt Ion: 43 Resp: 42303

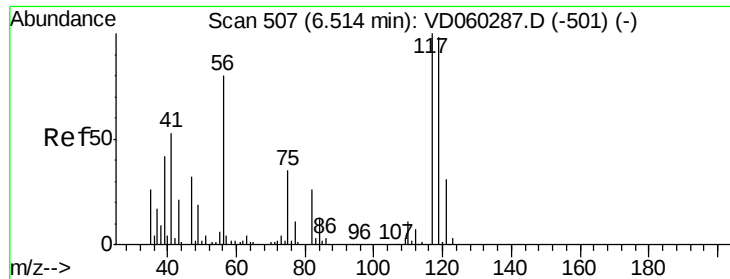
Ion Ratio Lower Upper

43 100

61 68.8 11.8 17.6#

70 0.0 6.2 9.4#

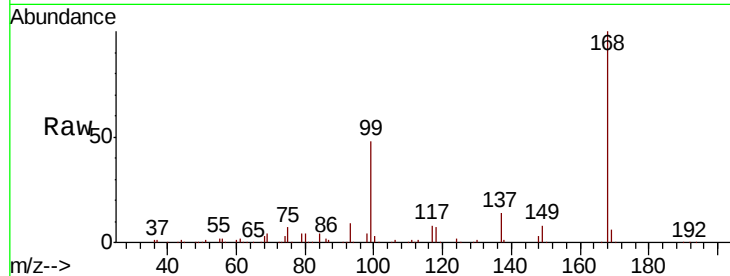




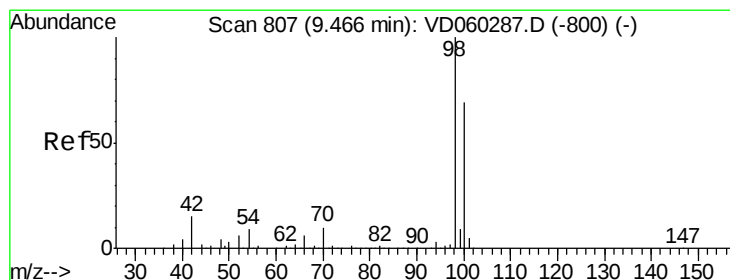
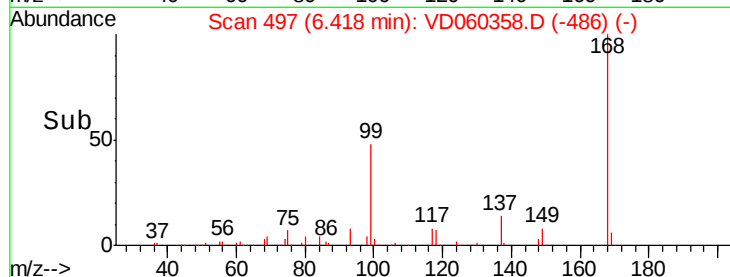
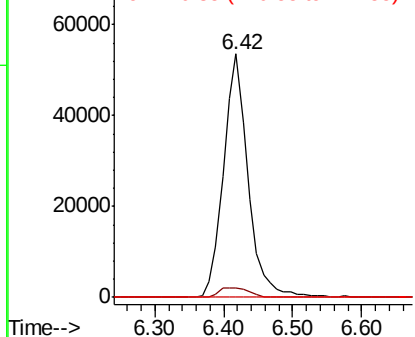
#38
Carbon Tetrachloride
Concen: 5.962 ug/l
RT: 6.42 min Scan# 497
Delta R.T. -0.10 min
Lab File: VD060358.D
Acq: 13 Nov 2018 14:06

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 131802
Ion Ratio Lower Upper
117 100
119 3.6 76.6 115.0#
121 0.0 24.3 36.5#

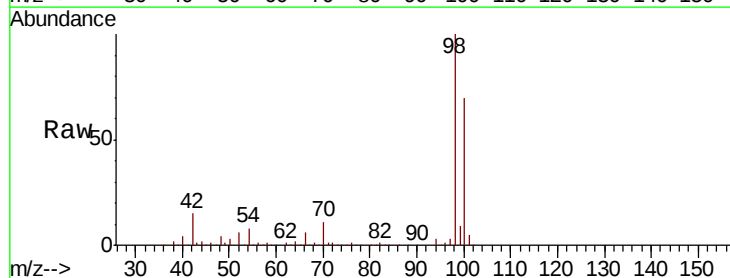


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

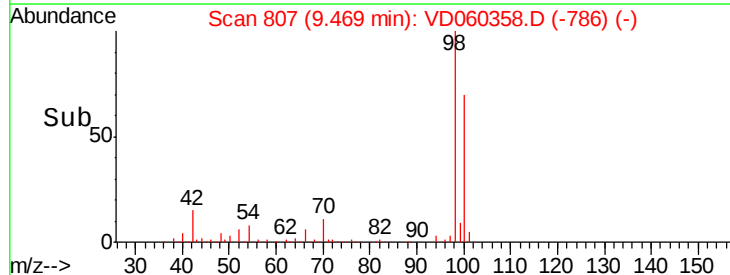
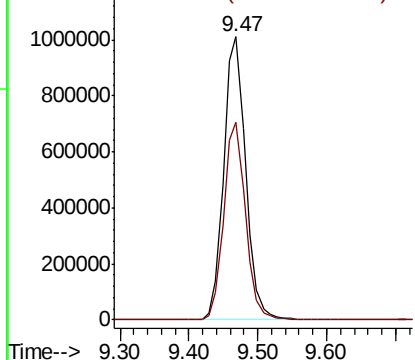


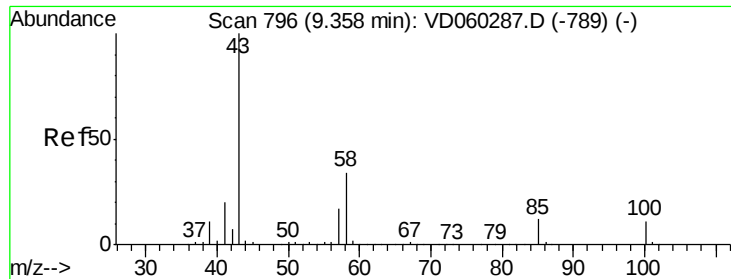
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.47 min Scan# 807
Delta R.T. 0.00 min
Lab File: VD060358.D
Acq: 13 Nov 2018 14:06

Tgt Ion: 98 Resp: 2229695
Ion Ratio Lower Upper
98 100
100 69.7 55.2 82.8



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





#51

4-Methyl-2-Pentanone

Concen: 1.337 ug/l

RT: 9.46 min Scan# 806

Delta R.T. 0.10 min

Lab File: VD060358.D

Acq: 13 Nov 2018 14:06

Instrument :

MSVOA_D

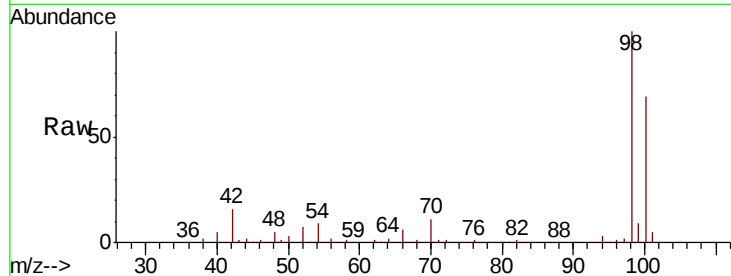
ClientSampleId :

Tot Ion: 43 Resp: 11982

Ion Ratio Lower Upper

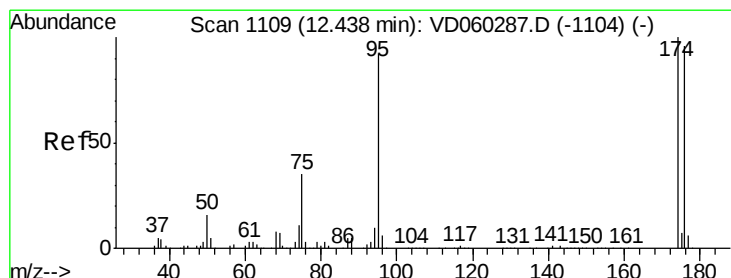
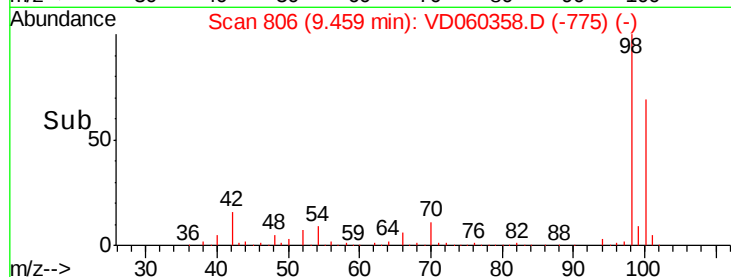
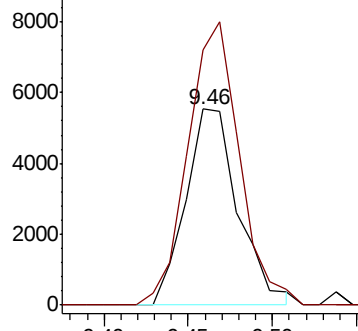
43 100

58 130.0 26.1 39.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VD060358.D

Acq: 13 Nov 2018 14:06

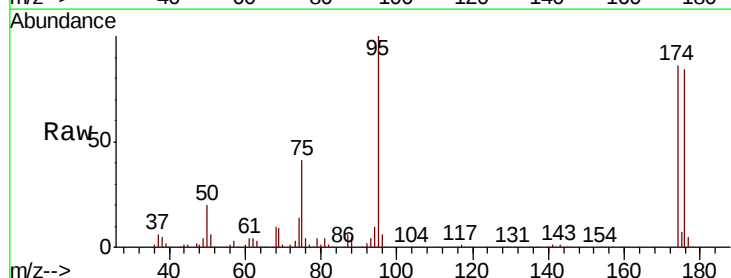
Tgt Ion: 95 Resp: 772479

Ion Ratio Lower Upper

95 100

174 85.6 0.0 160.8

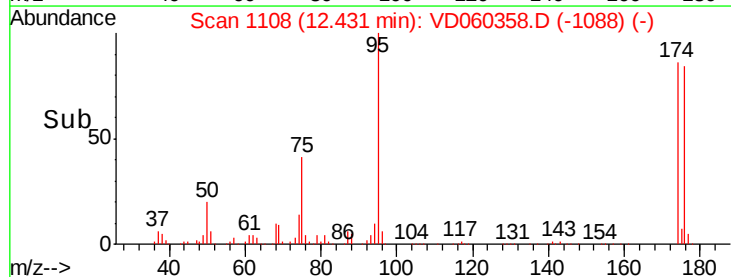
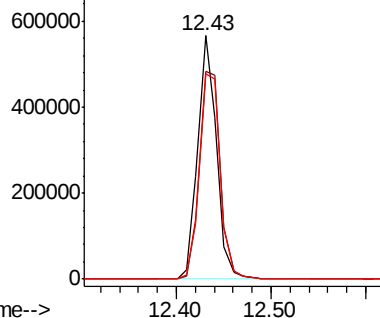
176 84.0 0.0 154.6

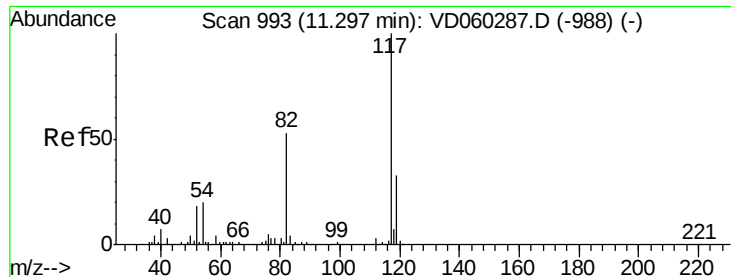


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

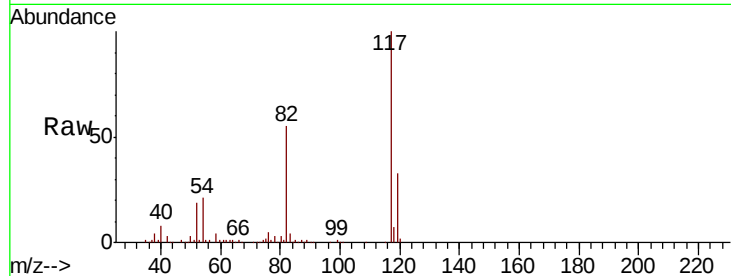




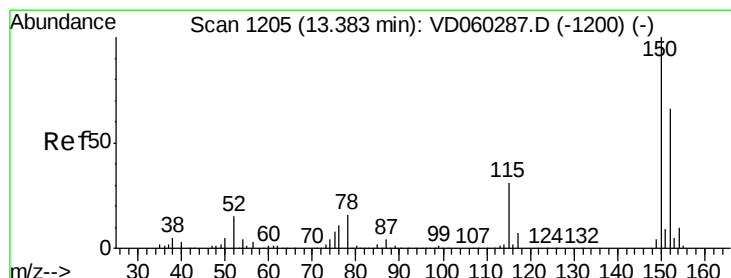
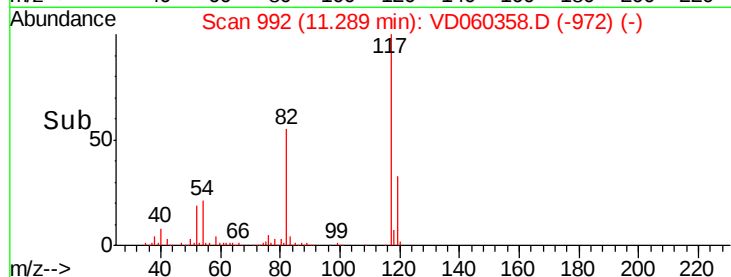
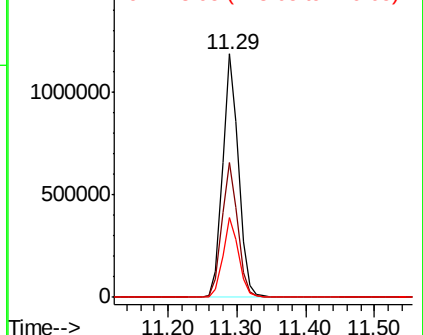
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.29 min Scan# 992
Delta R.T. -0.01 min
Lab File: VD060358.D
Acq: 13 Nov 2018 14:06

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 1903742
Ion Ratio Lower Upper
117 100
82 55.1 43.7 65.5
119 32.8 26.1 39.1

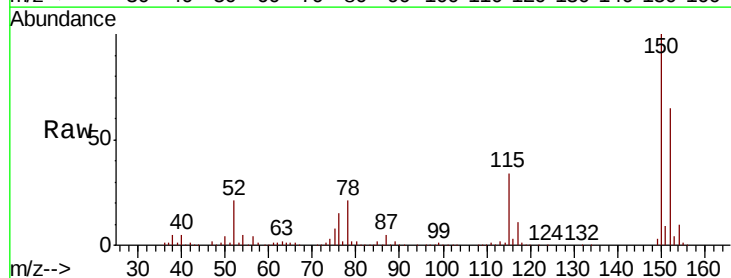


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

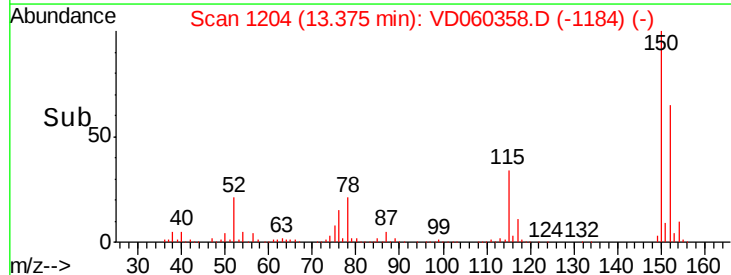
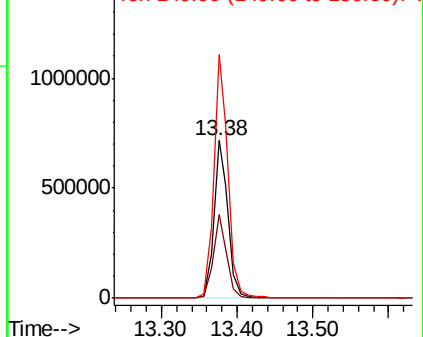


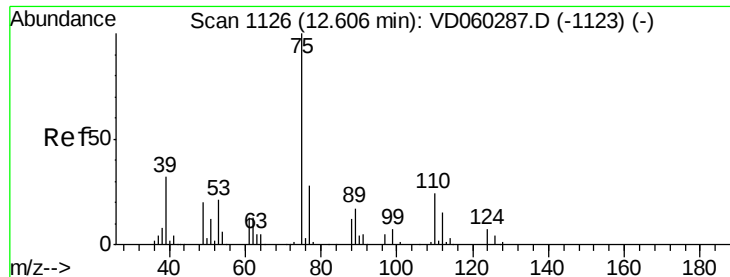
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.38 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VD060358.D
Acq: 13 Nov 2018 14:06

Tgt Ion:152 Resp: 944127
Ion Ratio Lower Upper
152 100
115 53.1 24.1 72.3
150 154.6 0.0 310.6



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

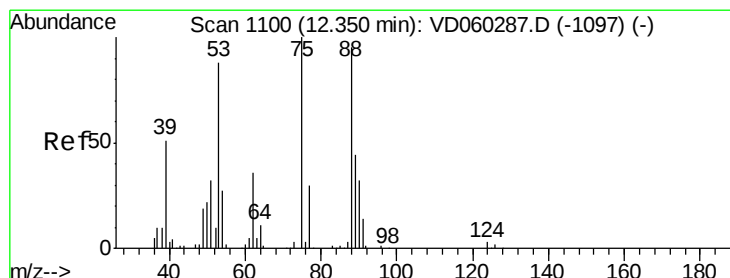
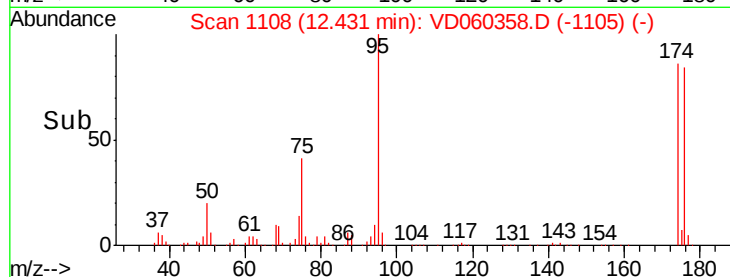
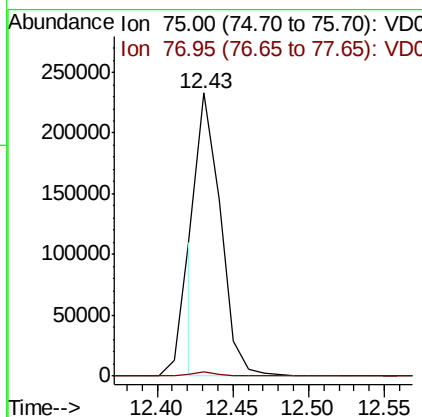
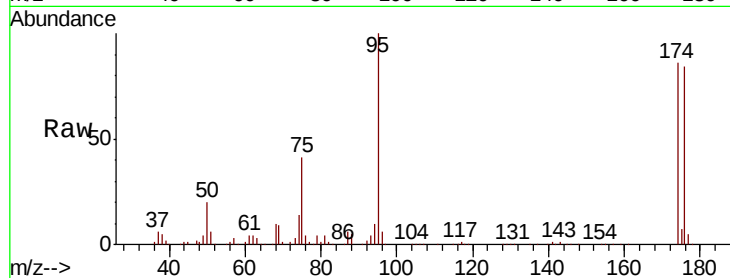




#76
 1,2,3-Trichloropropane
 Concen: 21.861 ug/l
 RT: 12.43 min Scan# 1108
 Delta R.T. -0.17 min
 Lab File: VD060358.D
 Acq: 13 Nov 2018 14:06

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 75 Resp: 246894
 Ion Ratio Lower Upper
 75 100
 77 1.5 16.4 49.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 99.390 ug/l
 RT: 12.43 min Scan# 1108
 Delta R.T. 0.08 min
 Lab File: VD060358.D
 Acq: 13 Nov 2018 14:06

Tgt Ion: 75 Resp: 319575
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.6 103.0#
 89 0.0 34.1 51.1#

