

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041619\
 Data File : VD061836.D
 Acq On : 17 Apr 2019 5:35
 Operator : VA/AP
 Sample : K2423-03
 Misc : 6.34g/5ml/MSVOA D/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 17 07:02:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 08:53:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	497833	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.22	114	792651	50.00	ug/l	-0.04
63) Chlorobenzene-d5	12.36	117	682136	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.52	152	311151	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	173321	41.54	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	83.08%	
35) Dibromofluoromethane	6.92	113	263951	44.08	ug/l	-0.05
Spiked Amount 50.000			Recovery	=	88.16%	
50) Toluene-d8	10.40	98	591619	41.69	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	83.38%	
62) 4-Bromofluorobenzene	13.55	95	243932	42.41	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	84.82%	

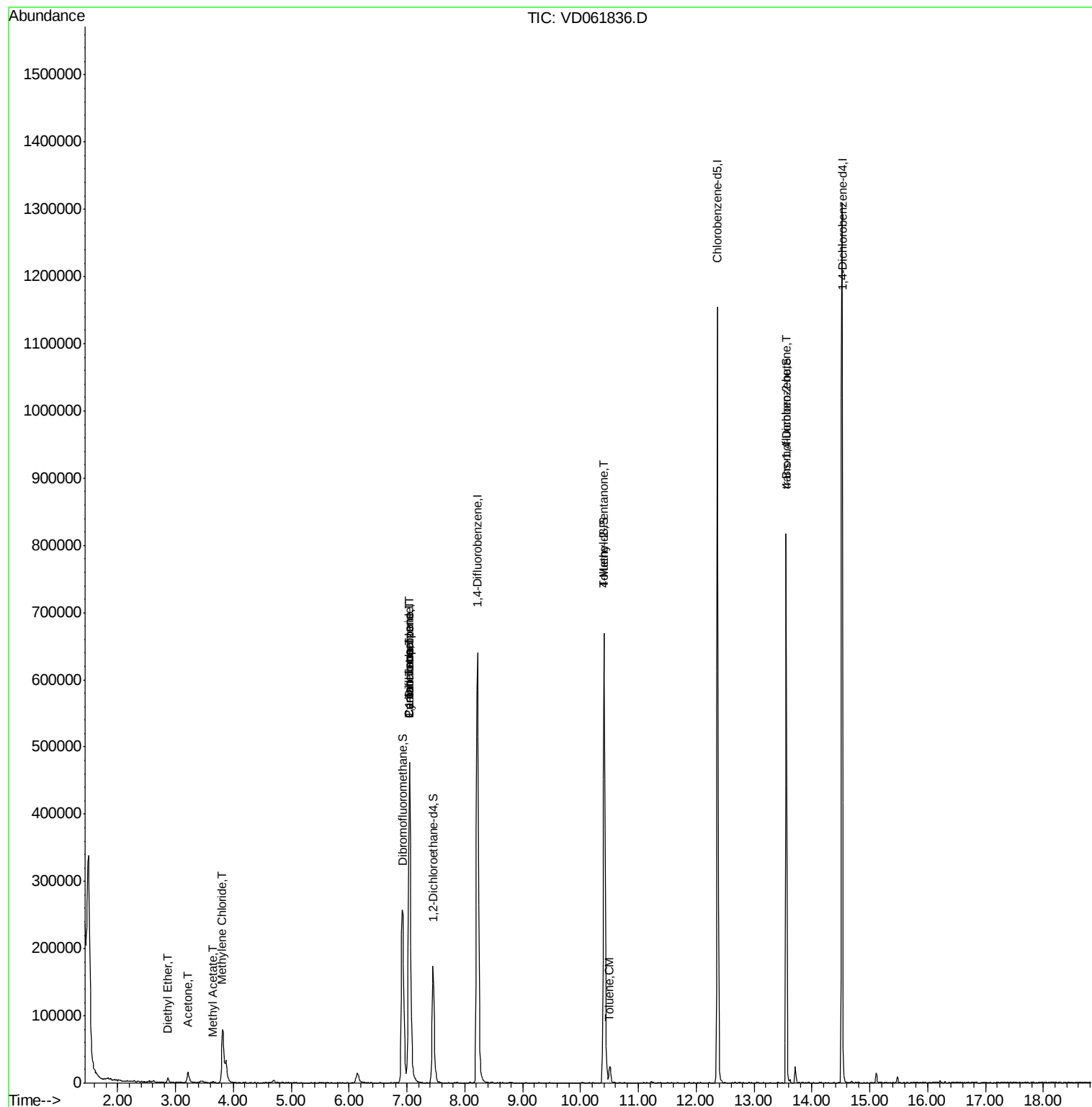
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.15	94	448	Below Cal	#	12
8) Diethyl Ether	2.86	74	2696	1.650	ug/l	84
16) Acetone	3.22	43	31837	30.960	ug/l	99
18) Methyl Acetate	3.65	43	3111	1.509	ug/l #	53
20) Methylene Chloride	3.81	84	60417	7.964	ug/l	98
31) Cyclohexane	7.04	56	8710	1.378	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	35111	5.421	ug/l #	47
38) Carbon Tetrachloride	7.05	117	48450	5.924	ug/l #	16
51) 4-Methyl-2-Pentanone	10.40	43	2553	1.070	ug/l #	1
52) Toluene	10.50	92	13971	1.402	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.55	75	94064	69.625	ug/l #	16

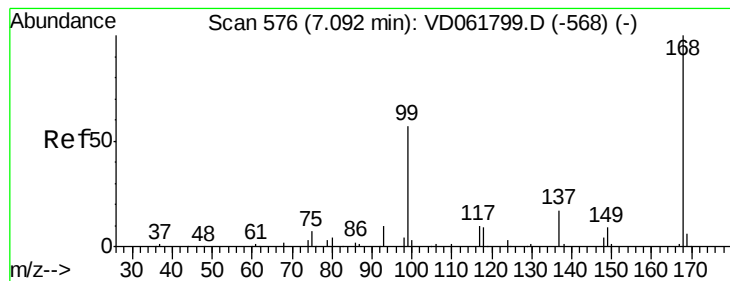
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.04 min

Lab File: VD061836.D

Acq: 17 Apr 2019 5:35

Instrument :

MSVOA_D

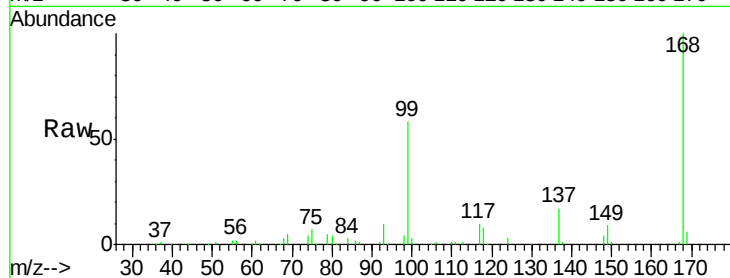
ClientSampleId :

Tot Ion:168 Resp: 497833

Ion Ratio Lower Upper

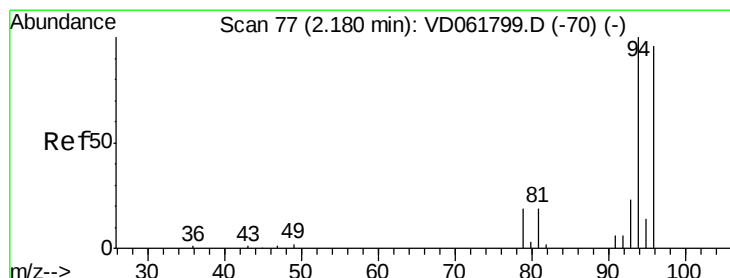
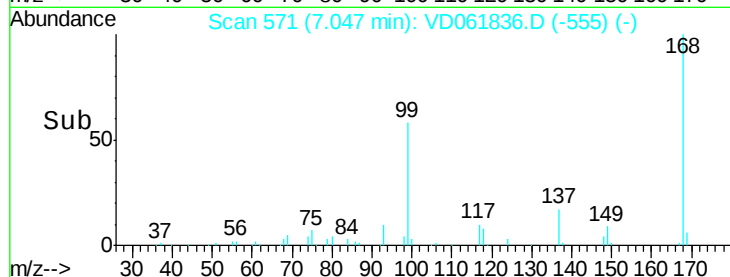
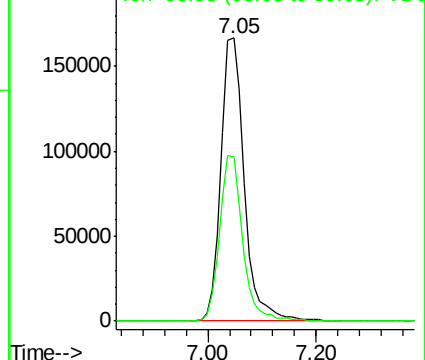
168 100

99 58.0 46.5 69.7



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: 2.15 min Scan# 74

Delta R.T. -0.02 min

Lab File: VD061836.D

Acq: 17 Apr 2019 5:35

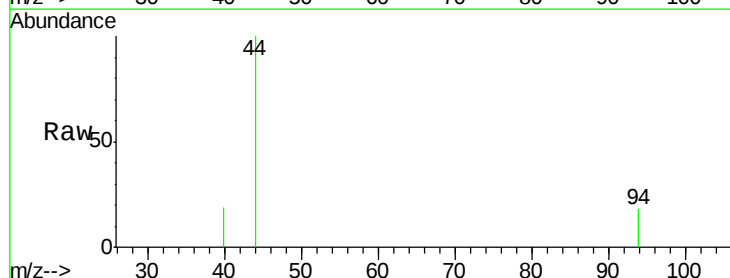
Tgt Ion: 94 Resp: 448

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

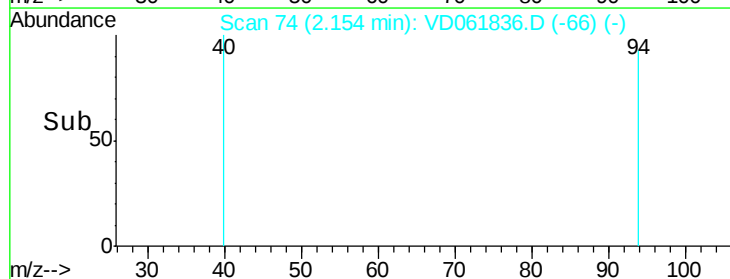
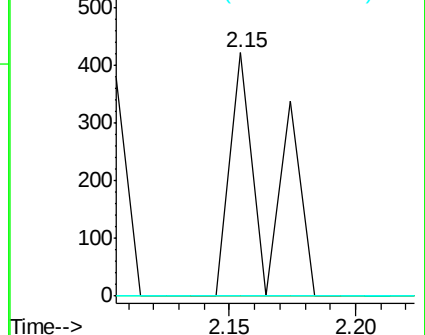
93 0.0 18.5 27.7#

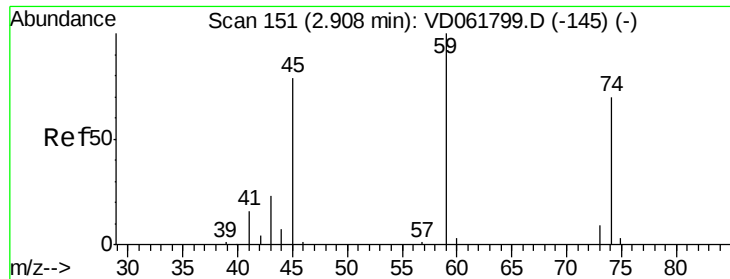


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#8

Diethyl Ether

Concen: 1.650 ug/l

RT: 2.86 min Scan# 146

Delta R.T. -0.04 min

Lab File: VD061836.D

Acq: 17 Apr 2019 5:35

Instrument :

MSVOA_D

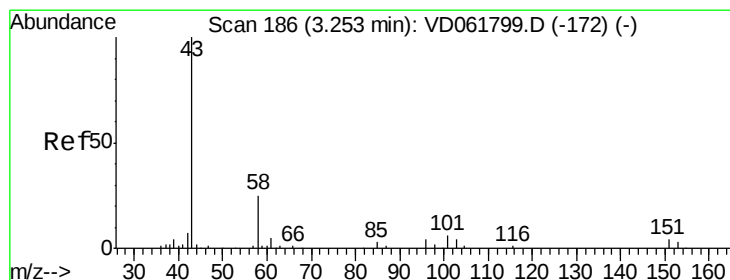
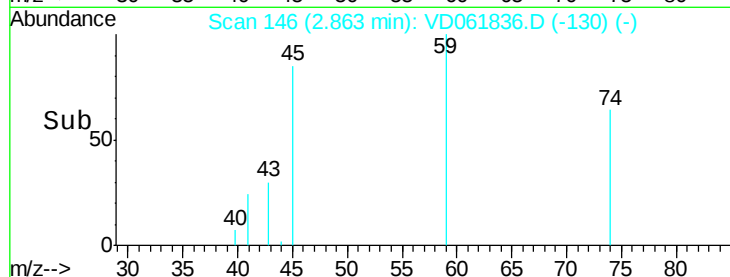
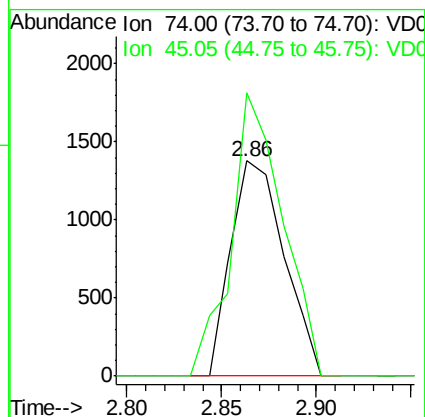
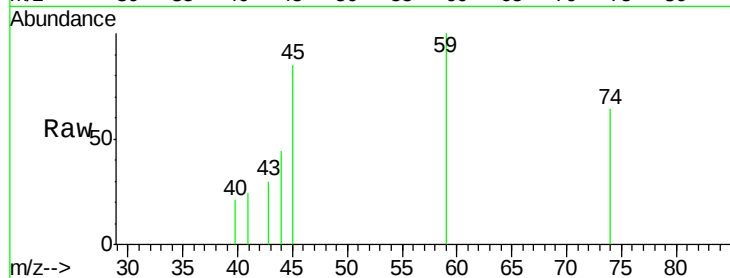
ClientSampleId :

Tot Ion: 74 Resp: 2696

Ion Ratio Lower Upper

74 100

45 131.4 56.9 170.7



#16

Acetone

Concen: 30.960 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.03 min

Lab File: VD061836.D

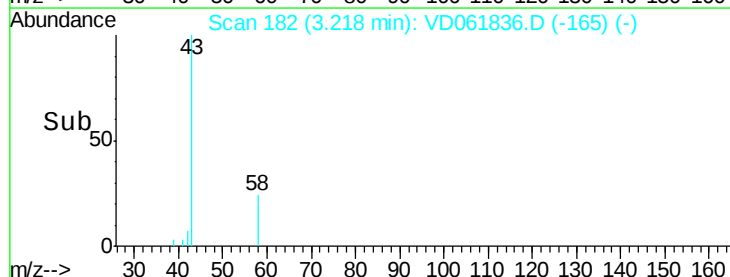
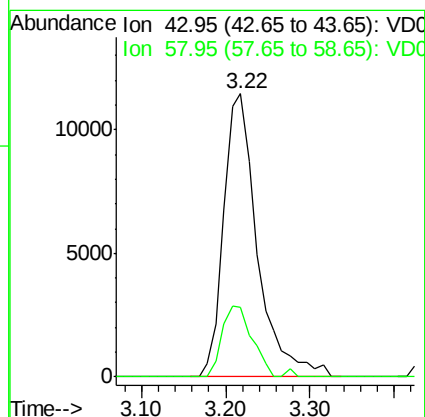
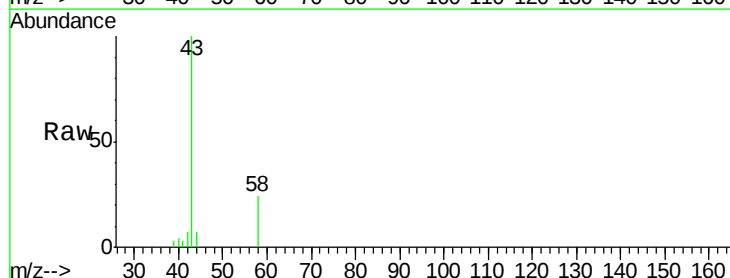
Acq: 17 Apr 2019 5:35

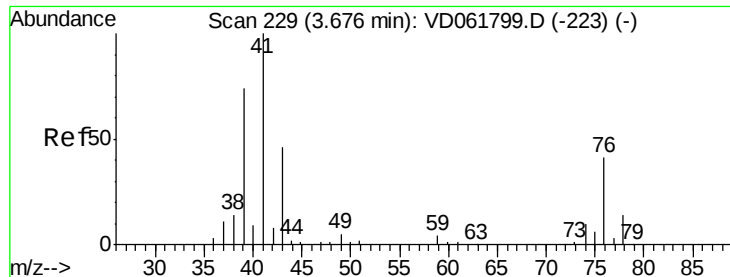
Tgt Ion: 43 Resp: 31837

Ion Ratio Lower Upper

43 100

58 24.5 19.9 29.9





#18

Methyl Acetate

Concen: 1.509 ug/l

RT: 3.65 min Scan# 226

Delta R.T. -0.03 min

Lab File: VD061836.D

Acq: 17 Apr 2019 5:35

Instrument :

MSVOA_D

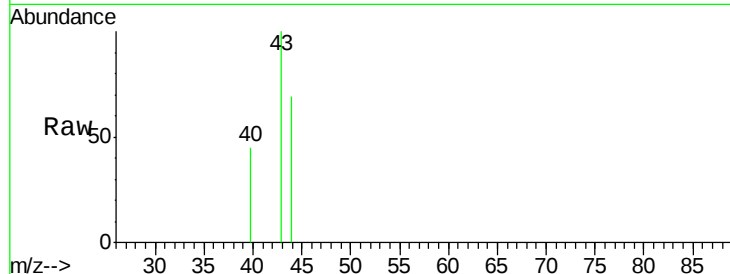
ClientSampled :

Tot Ion: 43 Resp: 3111

Ion Ratio Lower Upper

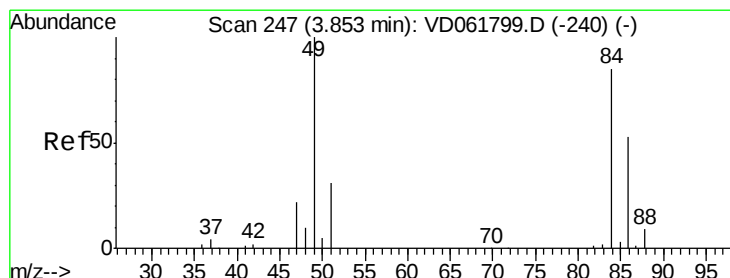
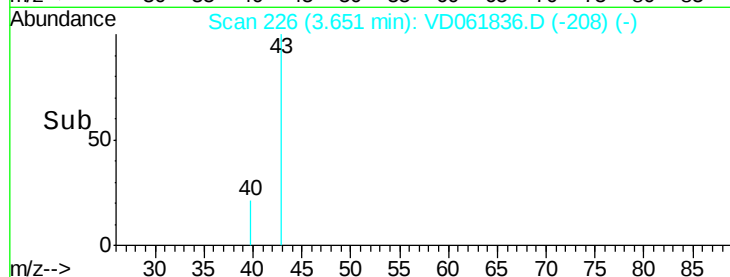
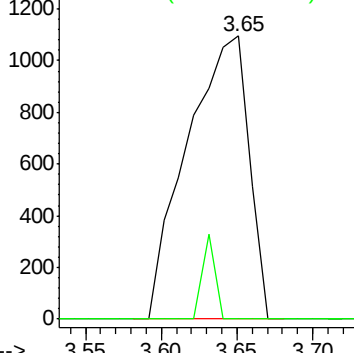
43 100

74 0.0 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC



#20

Methylene Chloride

Concen: 7.964 ug/l

RT: 3.81 min Scan# 242

Delta R.T. -0.04 min

Lab File: VD061836.D

Acq: 17 Apr 2019 5:35

Tgt Ion: 84 Resp: 60417

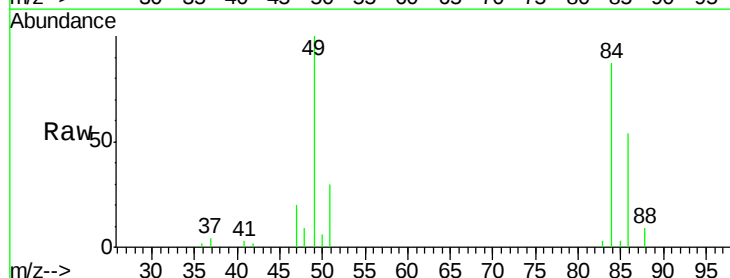
Ion Ratio Lower Upper

84 100

49 114.6 94.0 141.0

51 34.2 29.0 43.4

86 61.4 49.8 74.6

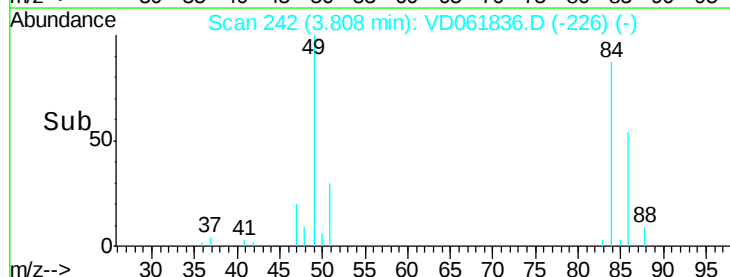
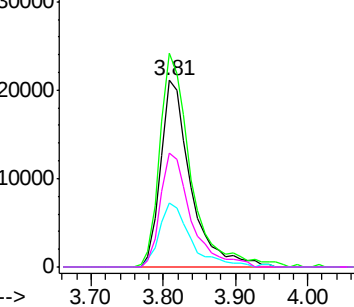


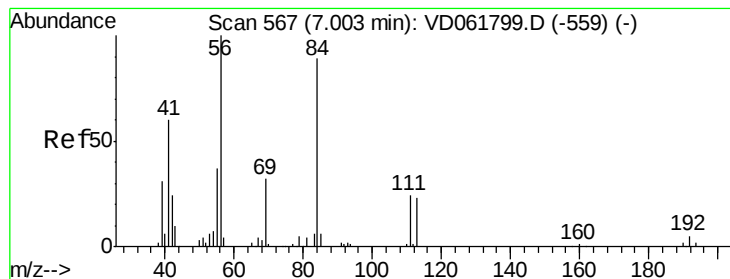
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#31

Cyclohexane

Concen: 1.378 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.03 min

Lab File: VD061836.D

Acq: 17 Apr 2019 5:35

Instrument :

MSVOA_D

ClientSampleId :

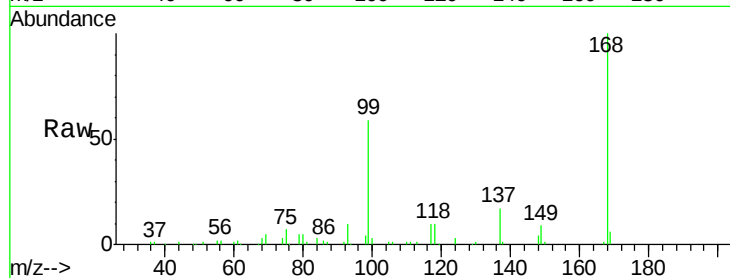
Tot Ion: 56 Resp: 8710

Ion Ratio Lower Upper

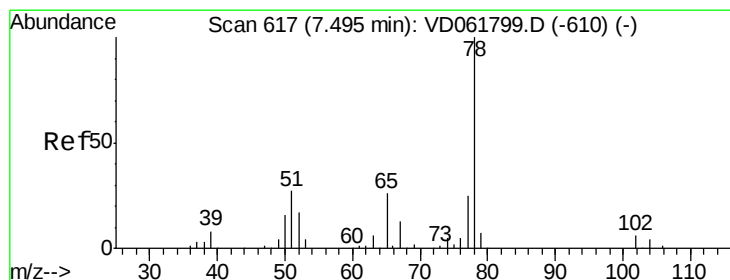
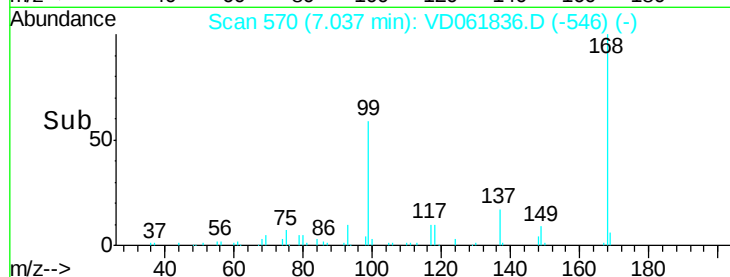
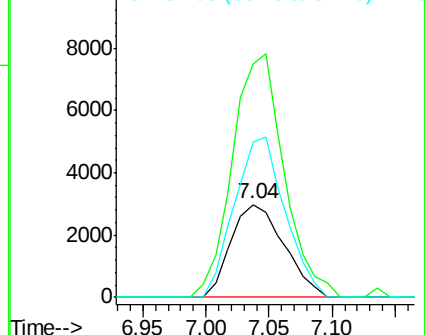
56 100

69 251.6 25.8 38.6#

84 166.8 72.2 108.4#



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: 7.45 min Scan# 612

Delta R.T. -0.04 min

Lab File: VD061836.D

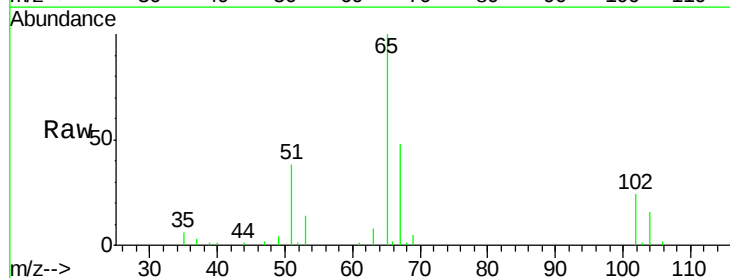
Acq: 17 Apr 2019 5:35

Tgt Ion: 65 Resp: 173321

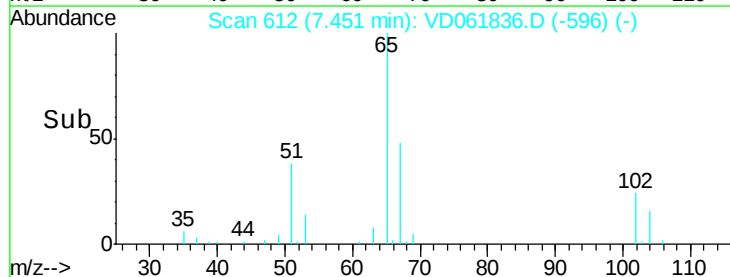
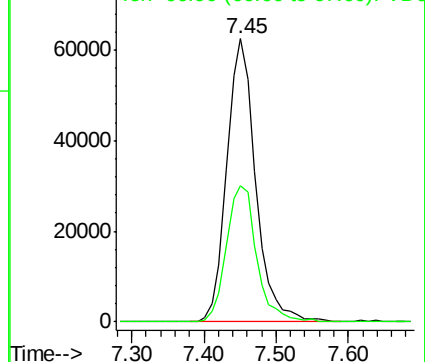
Ion Ratio Lower Upper

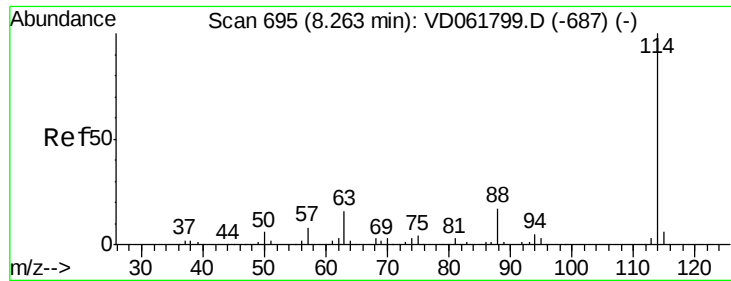
65 100

67 48.1 0.0 98.0



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

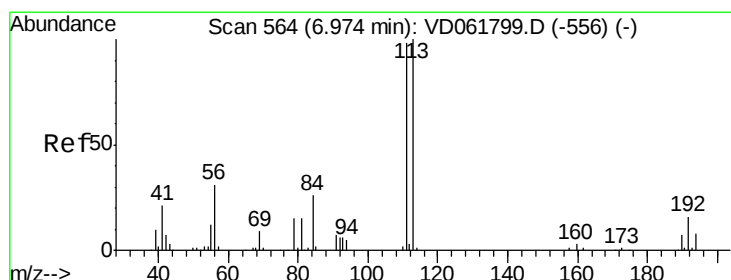
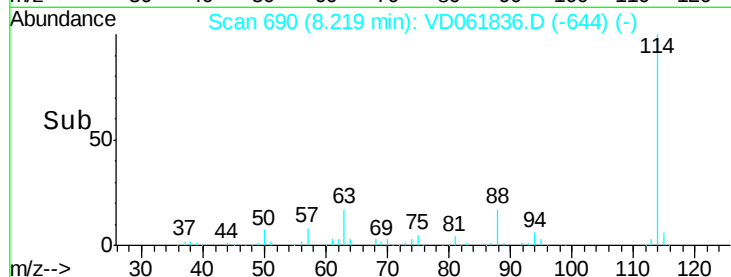
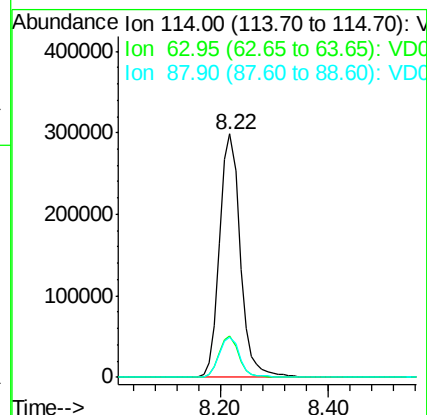
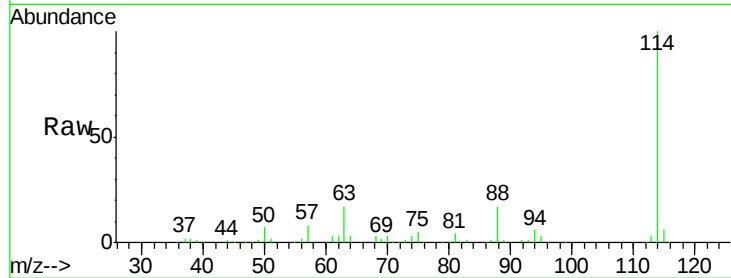




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.04 min
 Lab File: VD061836.D
 Acq: 17 Apr 2019 5:35

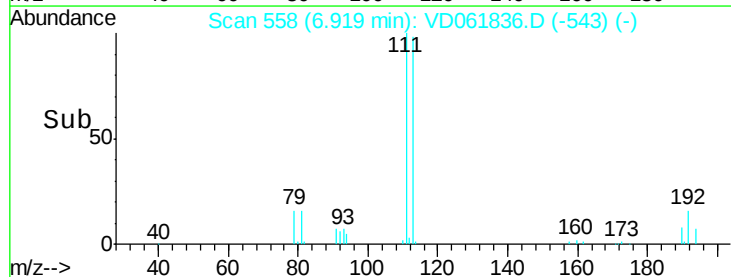
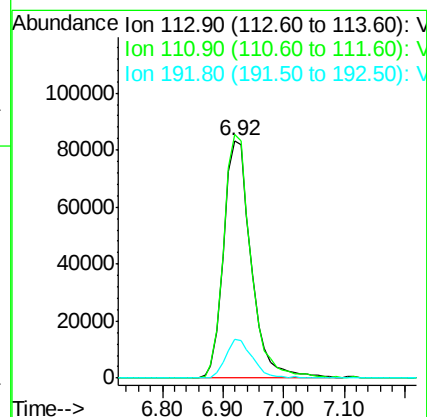
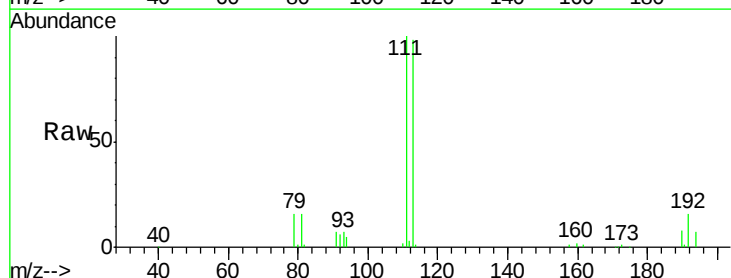
Instrument :
 MSVOA_D
 ClientSampleId :

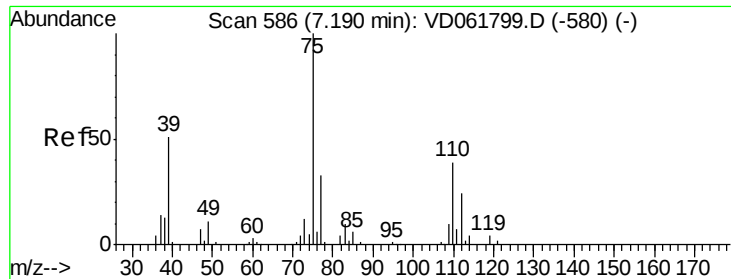
Tot Ion:114 Resp: 792651
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 32.4
 88 16.5 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.05 min
 Lab File: VD061836.D
 Acq: 17 Apr 2019 5:35

Tgt Ion:113 Resp: 263951
 Ion Ratio Lower Upper
 113 100
 111 102.4 78.5 117.7
 192 16.5 13.0 19.4





#36

1,1-Dichloropropene

Concen: 5.421 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.14 min

Lab File: VD061836.D

Acq: 17 Apr 2019 5:35

Instrument :

MSVOA_D

ClientSampleId :

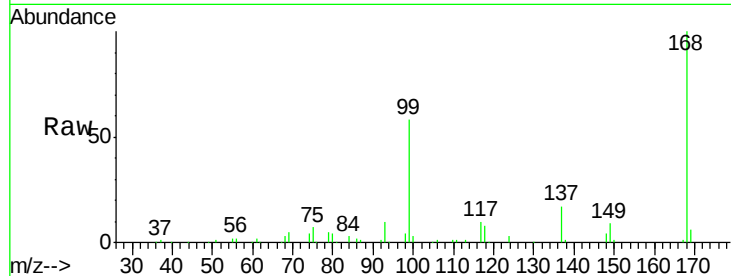
Tot Ion: 75 Resp: 35111

Ion Ratio Lower Upper

75 100

110 8.8 19.1 57.1#

77 0.0 25.6 38.4#

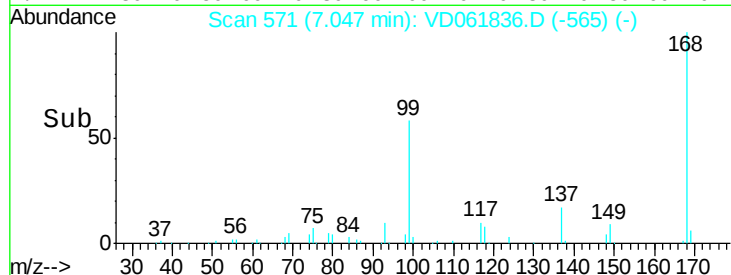


Abundance Ion 75.00 (74.70 to 75.70): V

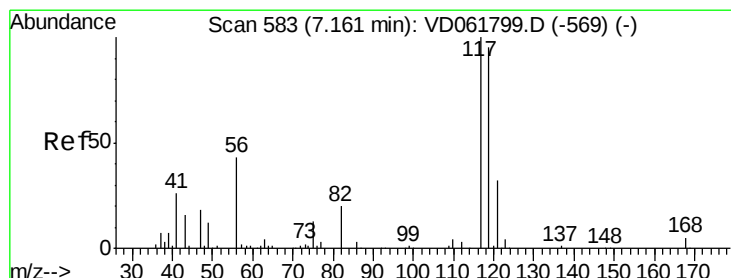
Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 5.924 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.11 min

Lab File: VD061836.D

Acq: 17 Apr 2019 5:35

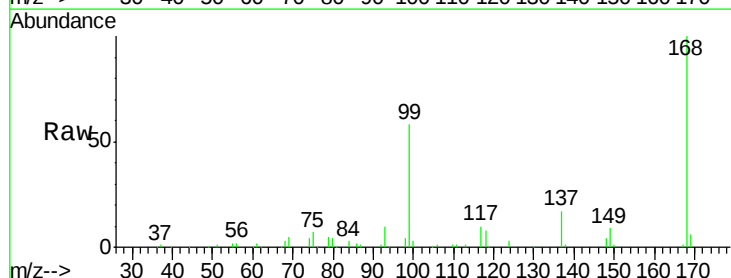
Tgt Ion: 117 Resp: 48450

Ion Ratio Lower Upper

117 100

119 5.0 75.8 113.8#

121 0.0 25.9 38.9#

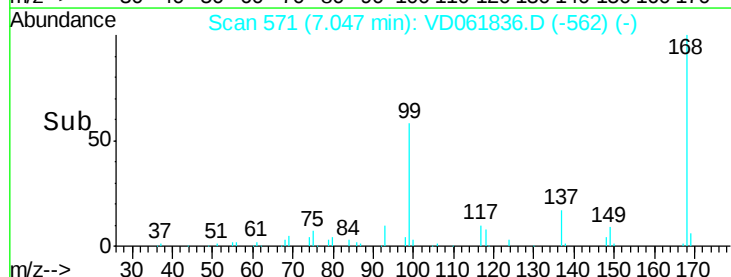


Abundance Ion 116.85 (116.55 to 117.55): V

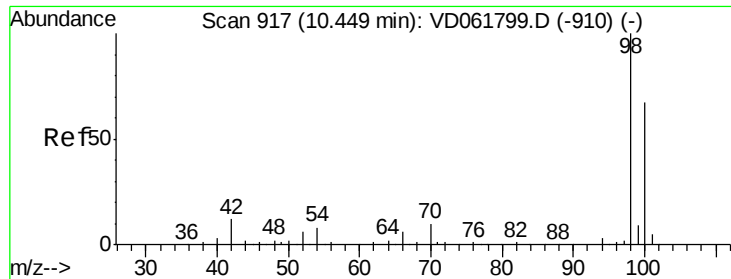
Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

Time-->



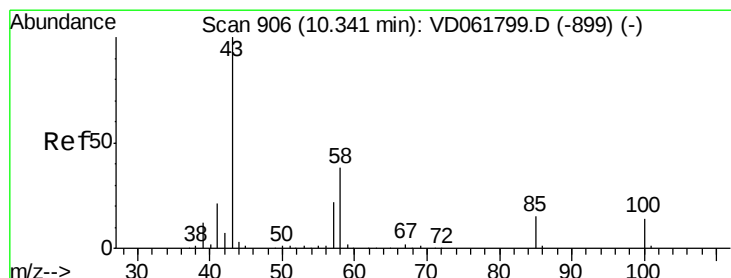
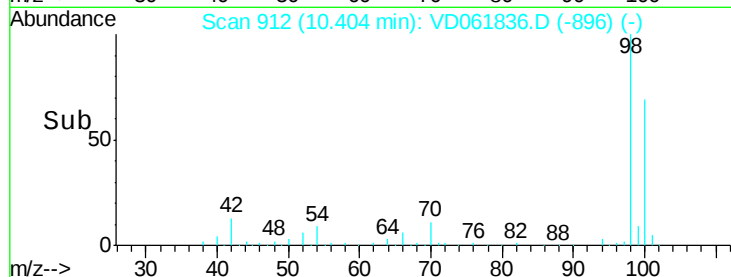
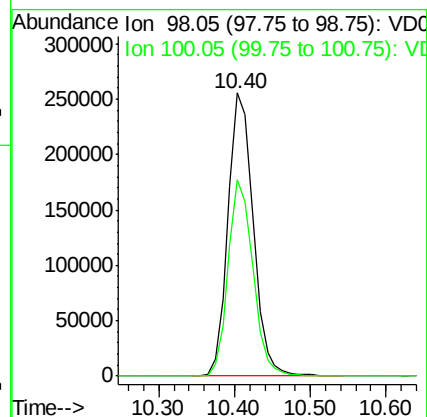
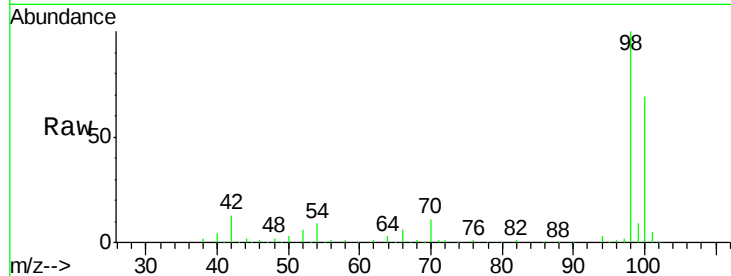
Time-->



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.04 min
Lab File: VD061836.D
Acq: 17 Apr 2019 5:35

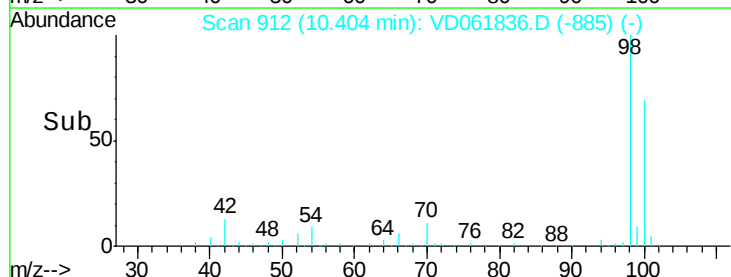
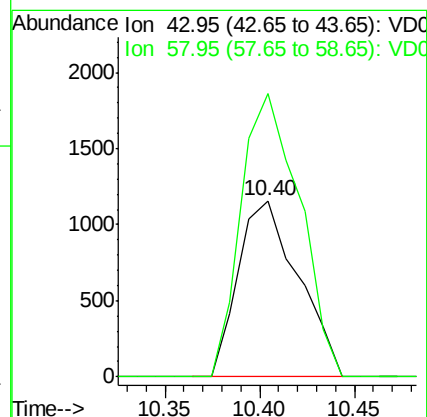
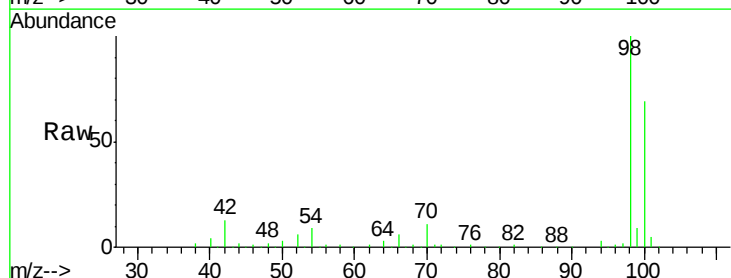
Instrument :
MSVOA_D
ClientSampleId :

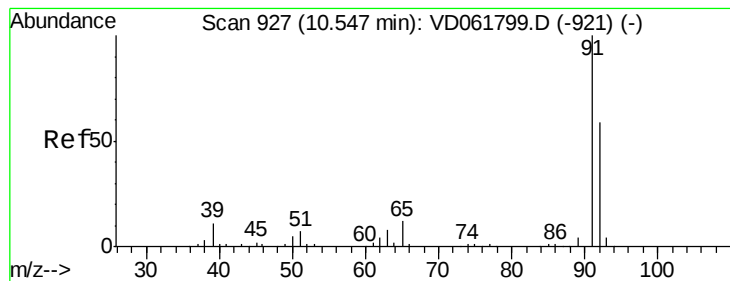
Tot Ion: 98 Resp: 591619
Ion Ratio Lower Upper
98 100
100 69.4 53.8 80.8



#51
4-Methyl-2-Pentanone
Concen: 1.070 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.06 min
Lab File: VD061836.D
Acq: 17 Apr 2019 5:35

Tgt Ion: 43 Resp: 2553
Ion Ratio Lower Upper
43 100
58 160.6 30.4 45.6#





#52

Toluene

Concen: 1.402 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.04 min

Lab File: VD061836.D

Acq: 17 Apr 2019 5:35

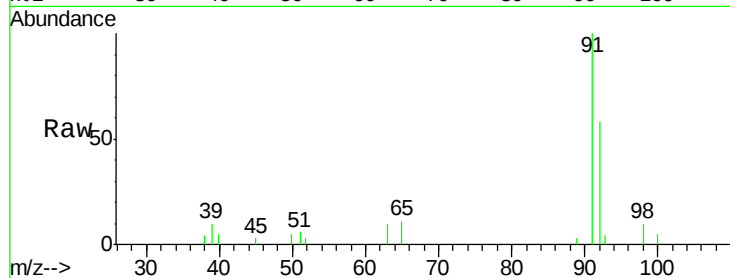
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 13971

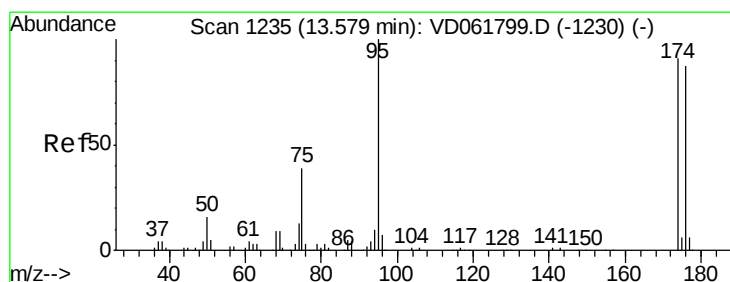
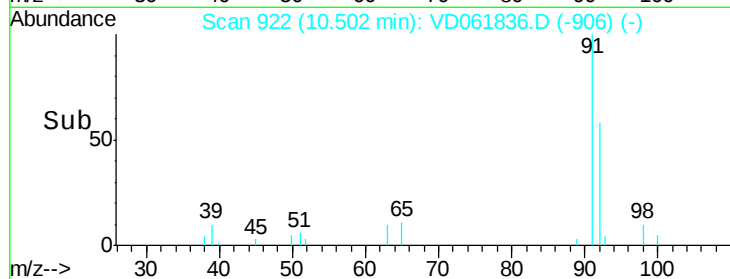
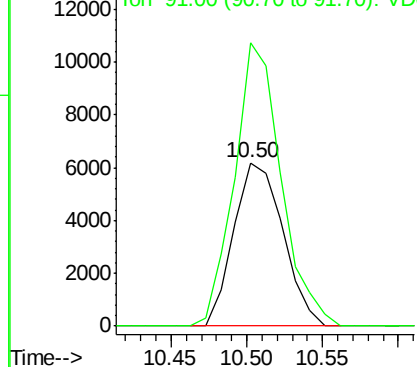
Ion Ratio Lower Upper

92 100

91 173.1 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.03 min

Lab File: VD061836.D

Acq: 17 Apr 2019 5:35

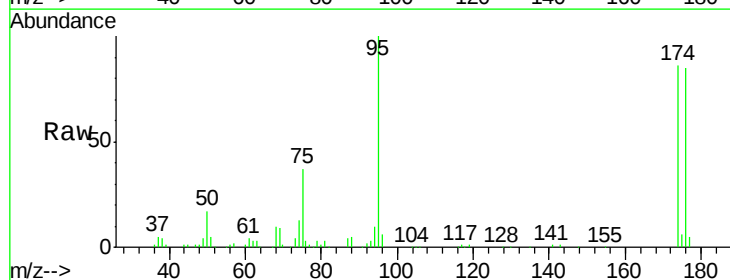
Tgt Ion: 95 Resp: 243932

Ion Ratio Lower Upper

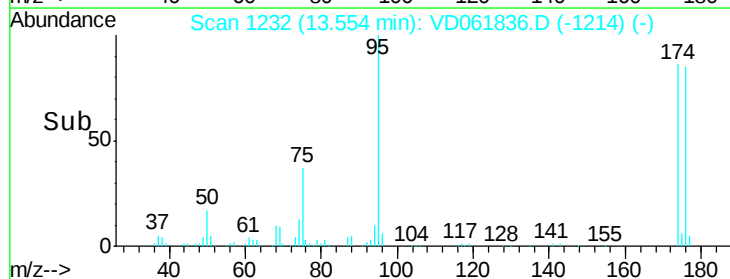
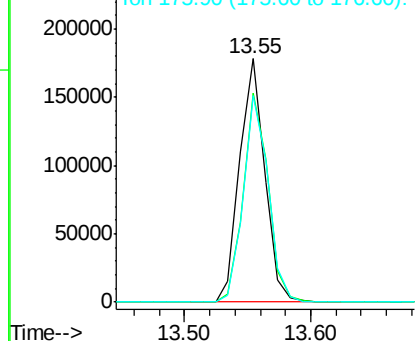
95 100

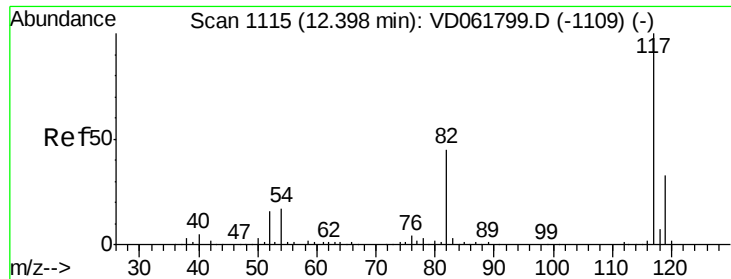
174 85.7 0.0 181.8

176 84.7 0.0 174.4



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

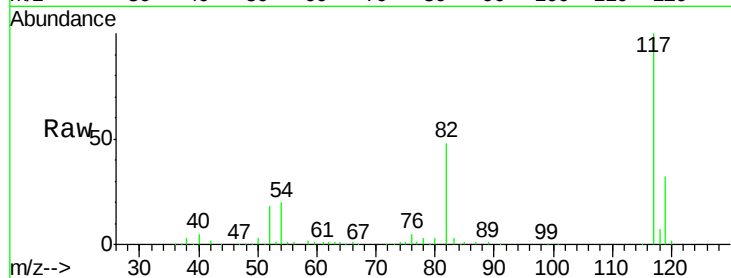




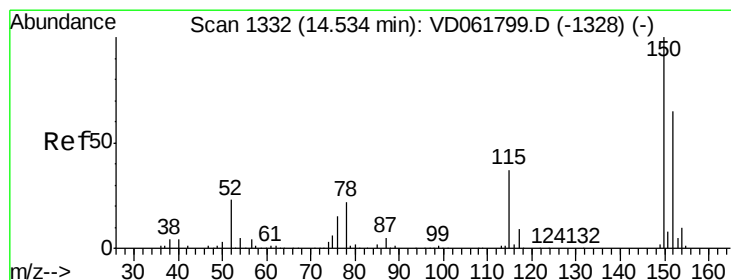
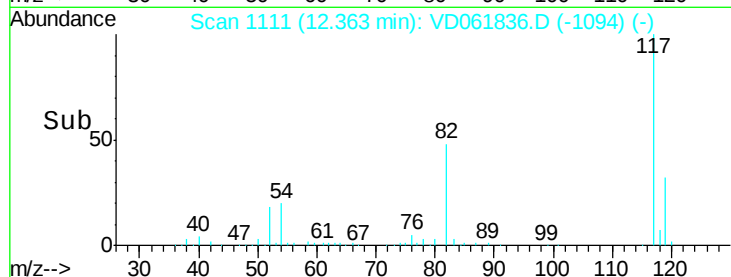
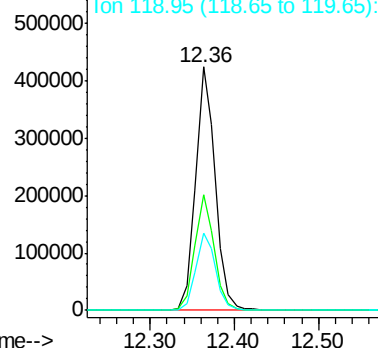
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.03 min
Lab File: VD061836.D
Acq: 17 Apr 2019 5:35

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 682136
Ion Ratio Lower Upper
117 100
82 47.6 36.2 54.2
119 31.6 26.2 39.4

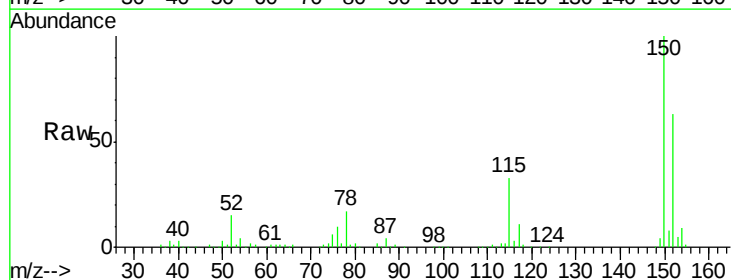


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

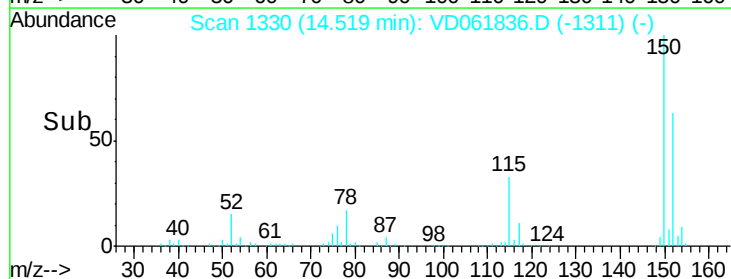
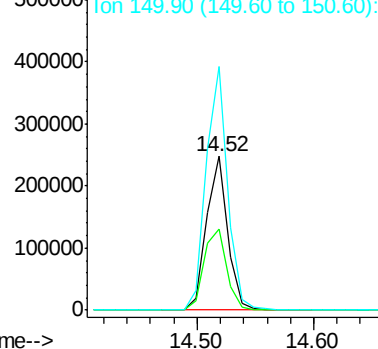


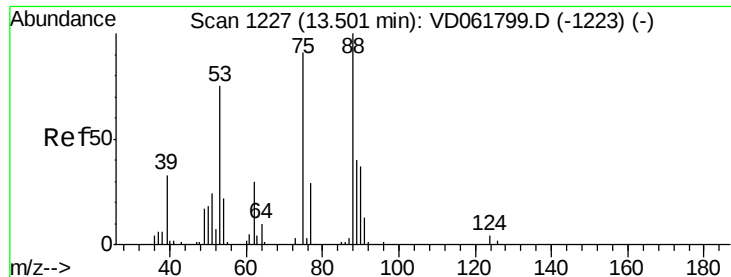
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.02 min
Lab File: VD061836.D
Acq: 17 Apr 2019 5:35

Tgt Ion:152 Resp: 311151
Ion Ratio Lower Upper
152 100
115 52.9 30.9 92.7
150 158.2 0.0 314.8



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: 69.625 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.05 min

Lab File: VD061836.D

Acq: 17 Apr 2019 5:35

Instrument :

MSVOA_D

ClientSampleId :

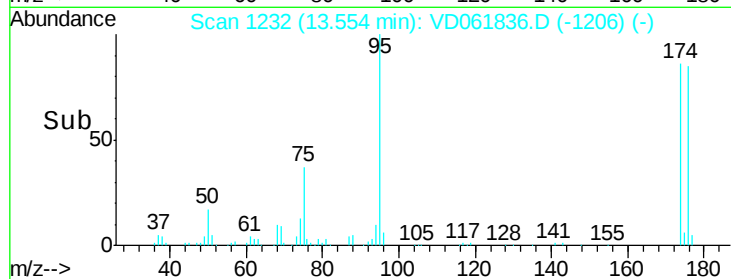
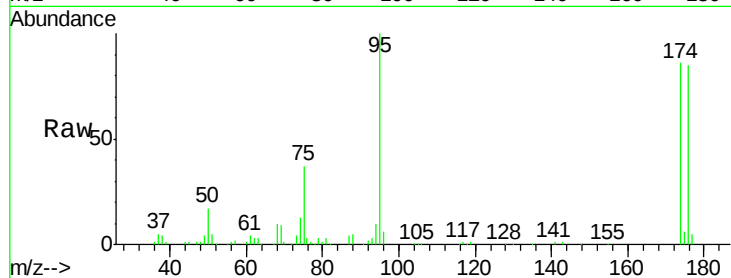
Tot Ion: 75 Resp: 94064

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

