

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041619\
 Data File : VD061820.D
 Acq On : 16 Apr 2019 19:50
 Operator : VA/AP
 Sample : K2377-02
 Misc : 5.76g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 17 00:59:22 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	324670	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.23	114	668942	50.00	ug/l	-0.04
63) Chlorobenzene-d5	12.37	117	636568	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.52	152	245368	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	222181	81.65	ug/l	-0.03
Spiked Amount			Recovery	=	163.30%	
35) Dibromofluoromethane	6.94	113	324769	64.26	ug/l	-0.04
Spiked Amount			Recovery	=	128.52%	
50) Toluene-d8	10.41	98	604794	50.51	ug/l	-0.04
Spiked Amount			Recovery	=	101.02%	
62) 4-Bromofluorobenzene	13.56	95	234905	48.40	ug/l	-0.02
Spiked Amount			Recovery	=	96.80%	

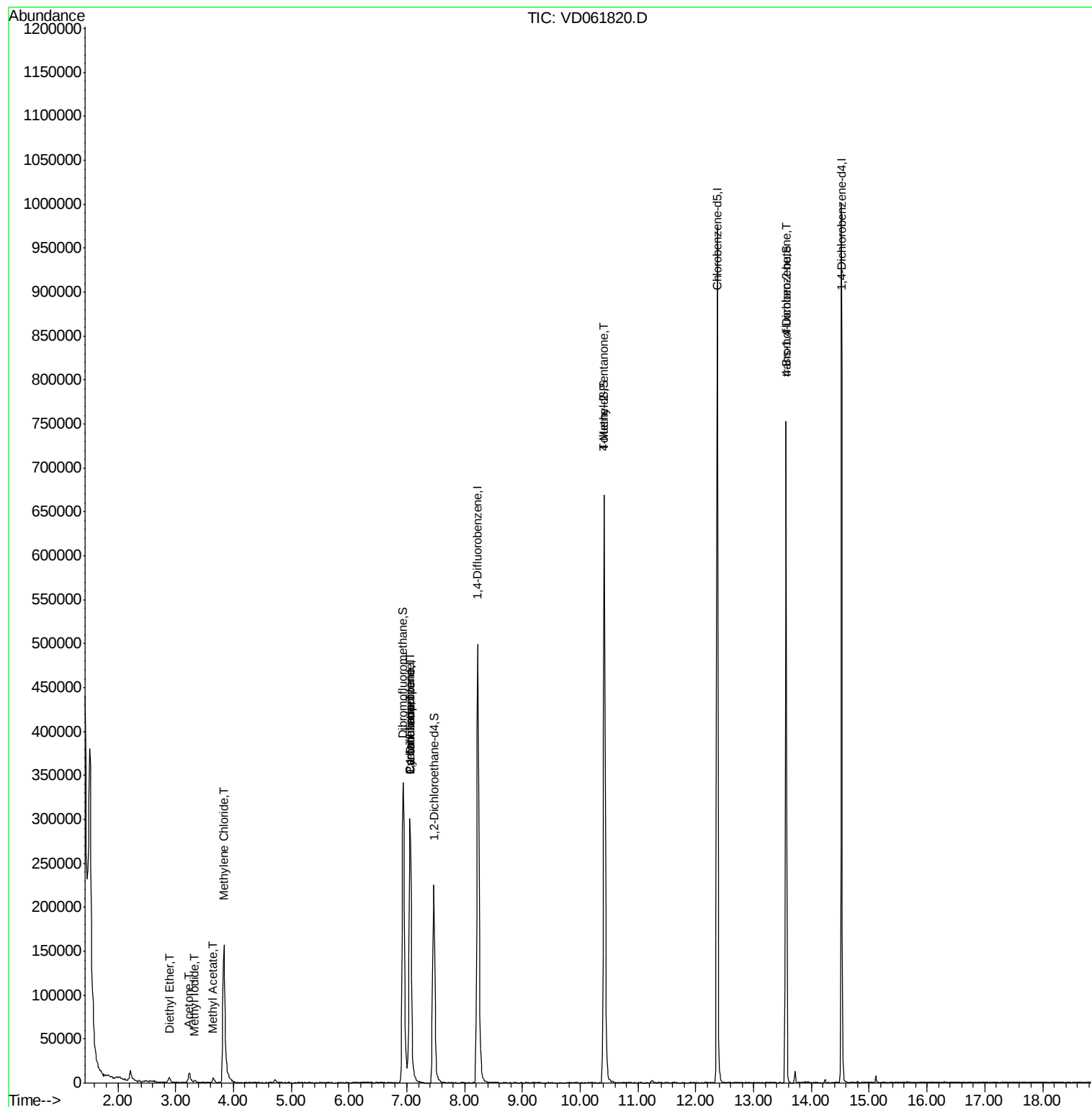
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	1151	Below Cal	#	57
8) Diethyl Ether	2.89	74	2513	2.359	ug/l	75
10) Methyl Iodide	3.32	142	3726	4.113	ug/l #	74
16) Acetone	3.23	43	24370	36.339	ug/l	94
18) Methyl Acetate	3.65	43	9001	6.696	ug/l #	82
20) Methylene Chloride	3.83	84	118650	34.138	ug/l	99
31) Cyclohexane	7.05	56	4891	1.187	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	23406	4.282	ug/l #	47
38) Carbon Tetrachloride	7.05	117	30480	4.416	ug/l #	16
51) 4-Methyl-2-Pentanone	10.41	43	2583	1.283	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.56	75	89938	83.712	ug/l #	16

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

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Quant Title : SW846 8260
QLast Update : Tue Apr 16 08:53:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD061820.D

Acq: 16 Apr 2019 19:50

Instrument :

MSVOA_D

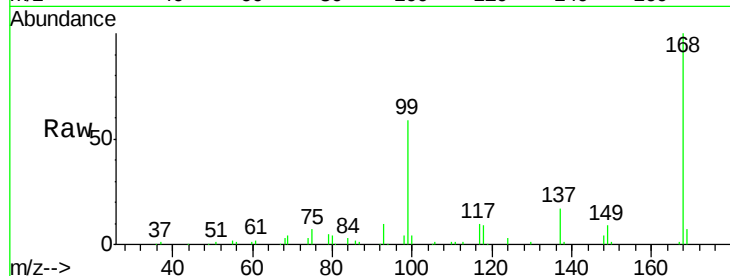
ClientSampleId :

Tot Ion:168 Resp: 324670

Ion Ratio Lower Upper

168 100

99 59.0 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

120000

100000

80000

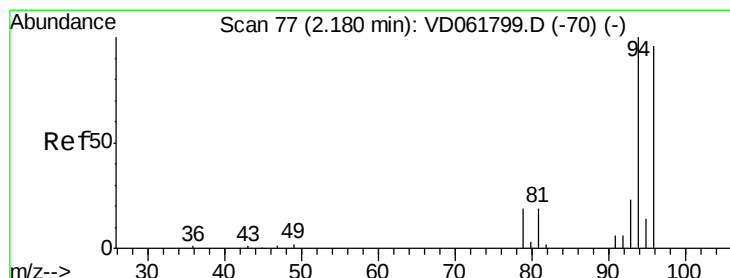
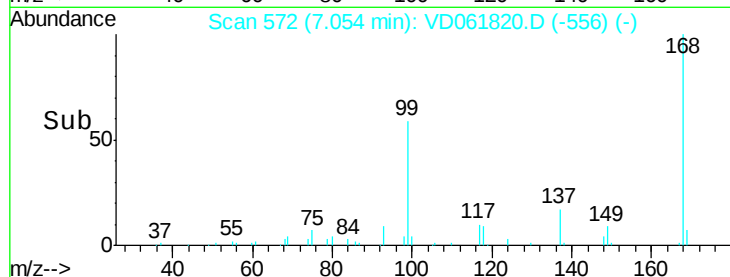
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.18 min Scan# 77

Delta R.T. 0.00 min

Lab File: VD061820.D

Acq: 16 Apr 2019 19:50

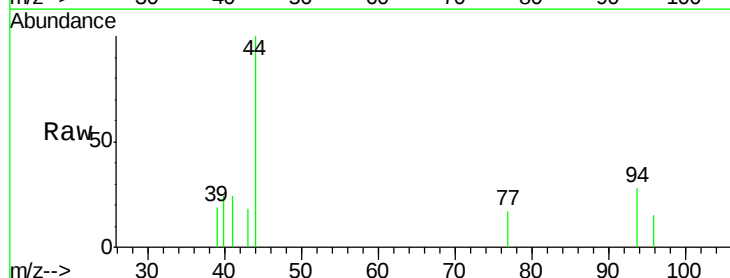
Tgt Ion: 94 Resp: 1151

Ion Ratio Lower Upper

94 100

96 54.4 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

2.18

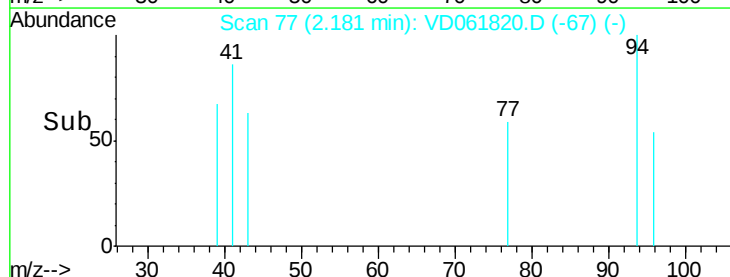
600

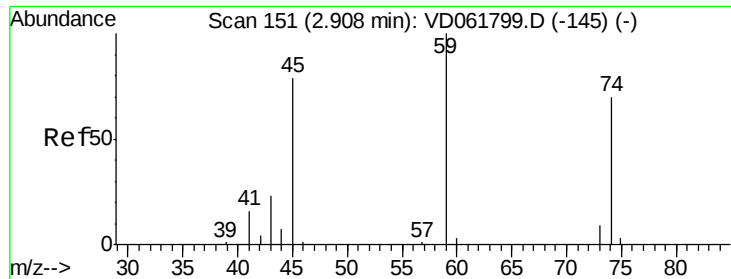
400

200

0

Time-->





#8

Diethyl Ether

Concen: 2.359 ug/l

RT: 2.89 min Scan# 149

Delta R.T. -0.02 min

Lab File: VD061820.D

Acq: 16 Apr 2019 19:50

Instrument :

MSVOA_D

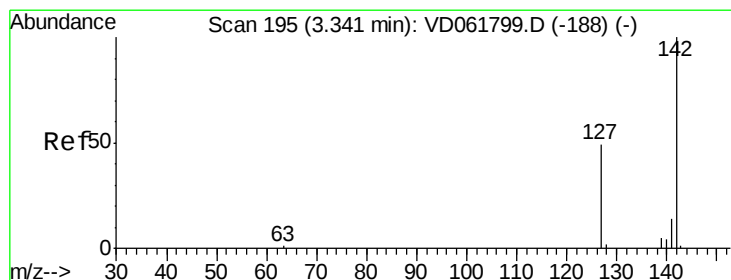
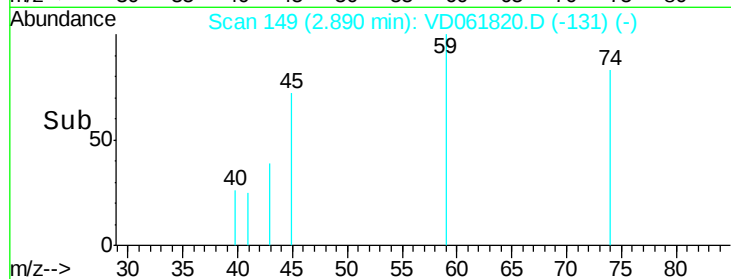
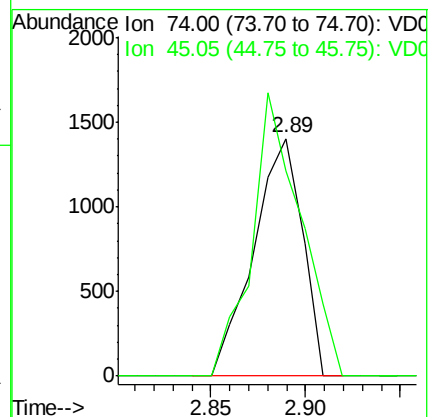
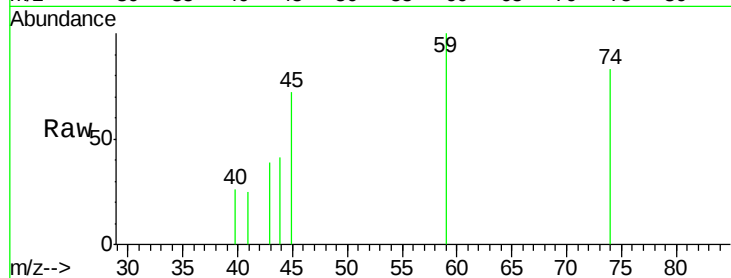
ClientSampleId :

Tot Ion: 74 Resp: 2513

Ion Ratio Lower Upper

74 100

45 86.5 56.9 170.7



#10

Methyl Iodide

Concen: 4.113 ug/l

RT: 3.32 min Scan# 193

Delta R.T. -0.02 min

Lab File: VD061820.D

Acq: 16 Apr 2019 19:50

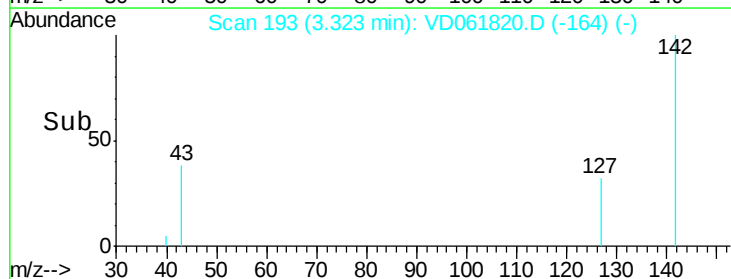
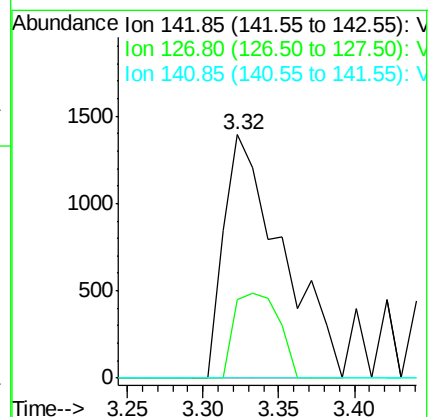
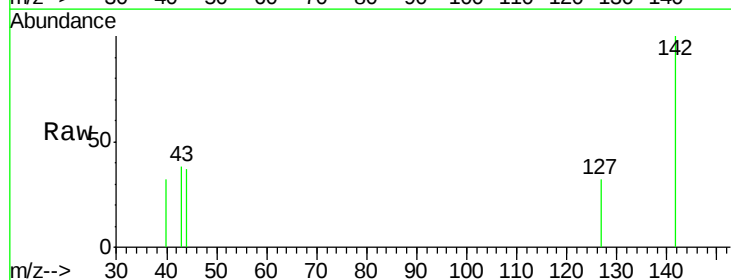
Tgt Ion: 142 Resp: 3726

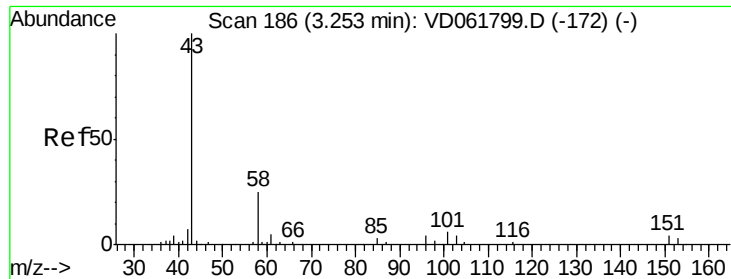
Ion Ratio Lower Upper

142 100

127 32.5 38.8 58.2#

141 0.0 11.4 17.0#





#16

Acetone

Concen: 36.339 ug/l

RT: 3.23 min Scan# 184

Delta R.T. -0.02 min

Lab File: VD061820.D

Acq: 16 Apr 2019 19:50

Instrument :

MSVOA_D

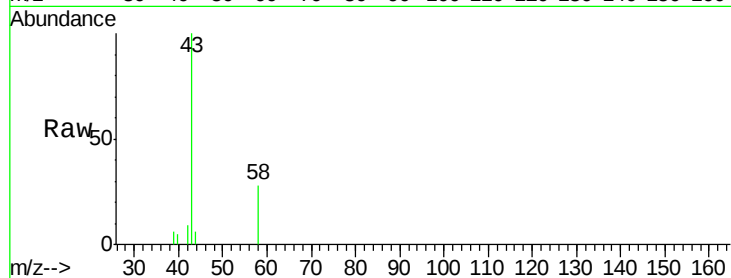
ClientSampleId :

Tot Ion: 43 Resp: 24370

Ion Ratio Lower Upper

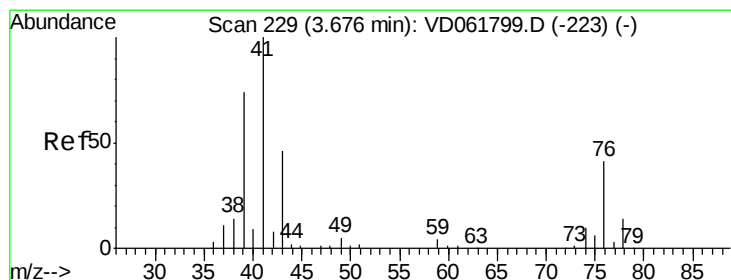
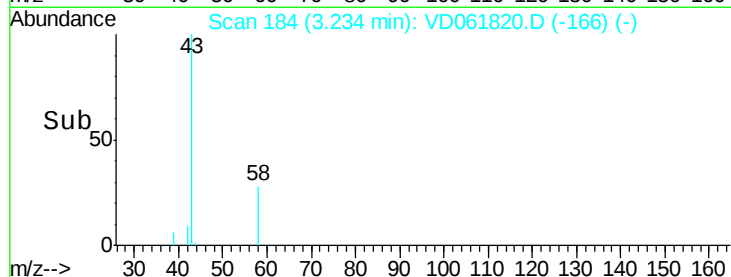
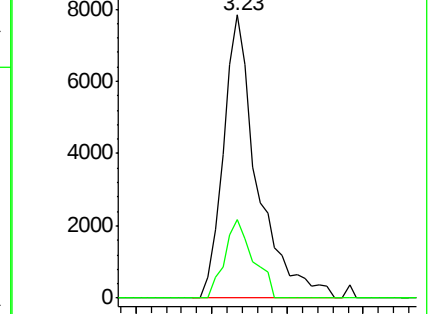
43 100

58 27.7 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 6.696 ug/l

RT: 3.65 min Scan# 226

Delta R.T. -0.03 min

Lab File: VD061820.D

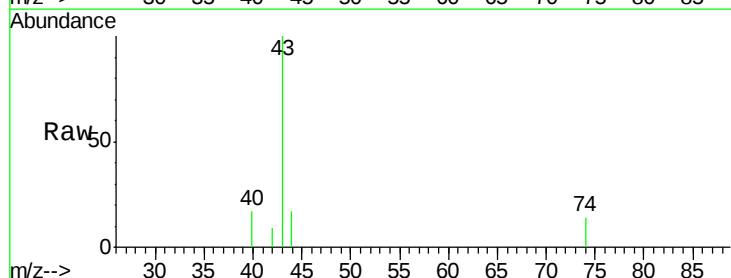
Acq: 16 Apr 2019 19:50

Tgt Ion: 43 Resp: 9001

Ion Ratio Lower Upper

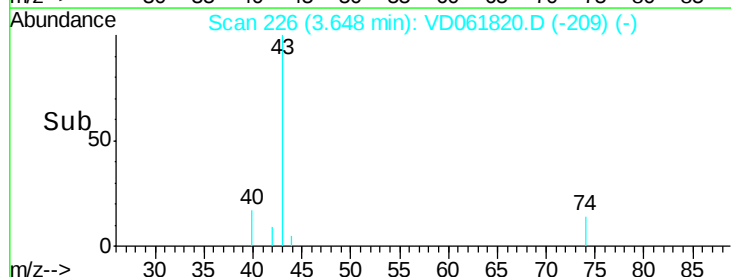
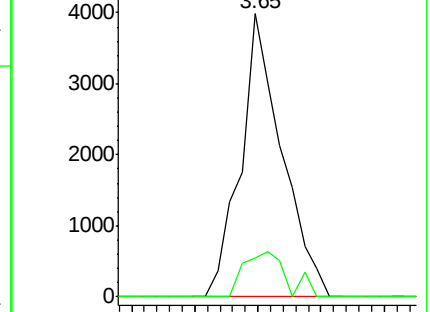
43 100

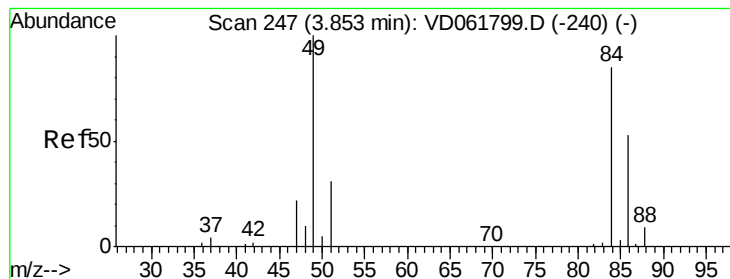
74 13.9 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: 34.138 ug/l

RT: 3.83 min Scan# 245

Delta R.T. -0.02 min

Lab File: VD061820.D

Acq: 16 Apr 2019 19:50

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 84 Resp: 118650

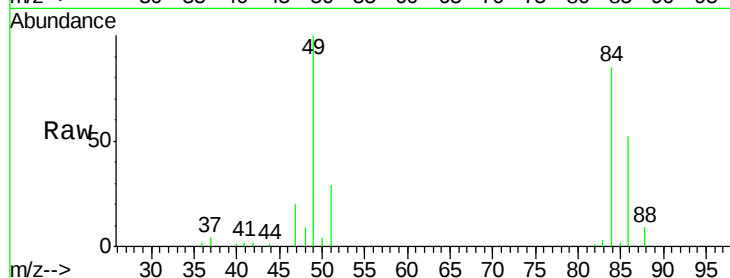
Ion Ratio Lower Upper

84 100

49 117.4 94.0 141.0

51 34.6 29.0 43.4

86 61.2 49.8 74.6

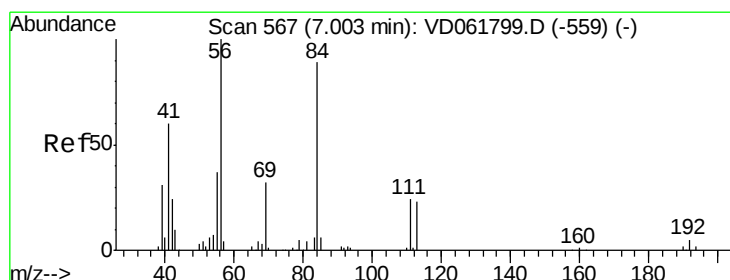
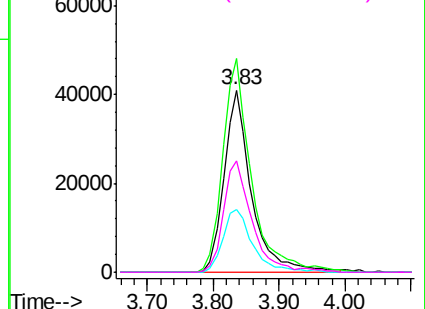
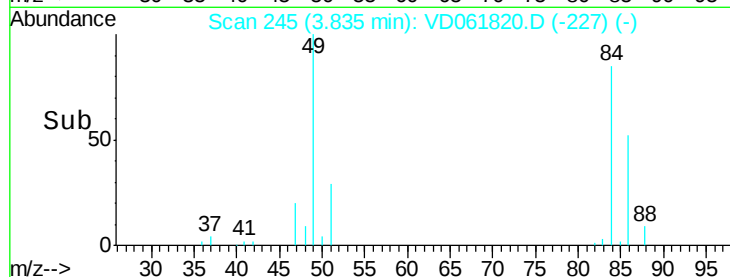


Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 1.187 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.05 min

Lab File: VD061820.D

Acq: 16 Apr 2019 19:50

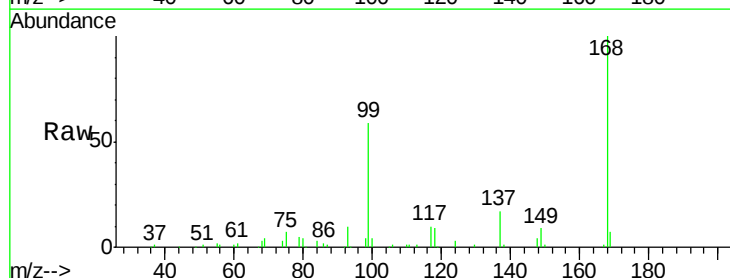
Tgt Ion: 56 Resp: 4891

Ion Ratio Lower Upper

56 100

69 287.1 25.8 38.6#

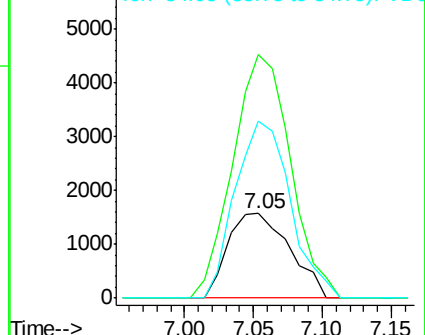
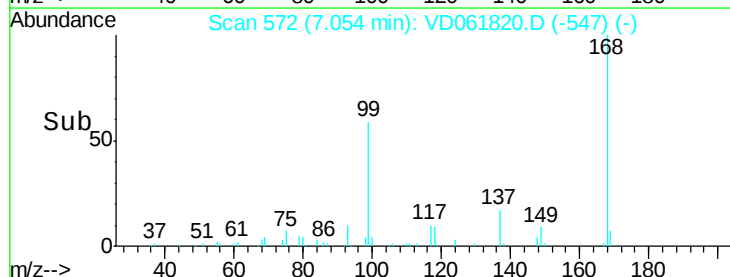
84 209.1 72.2 108.4#

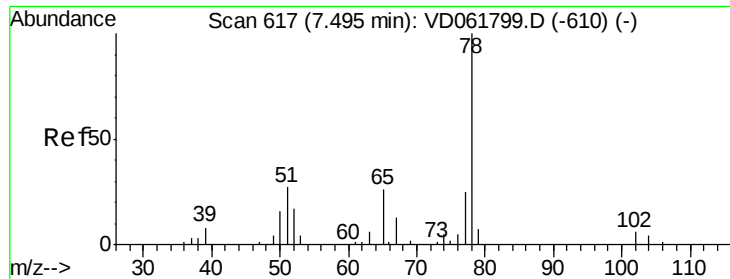


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

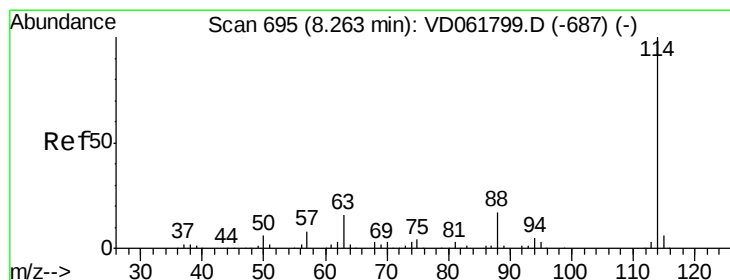
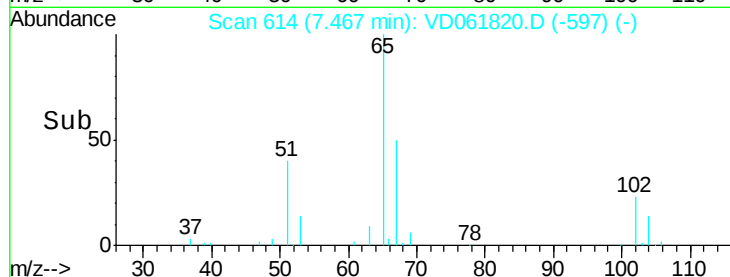
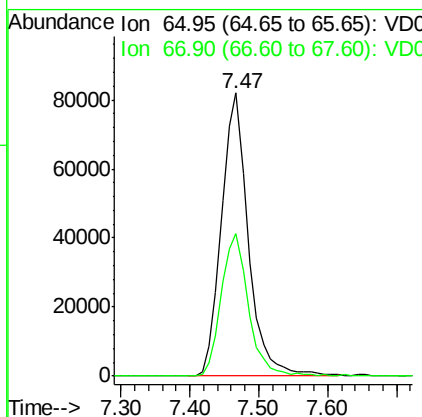
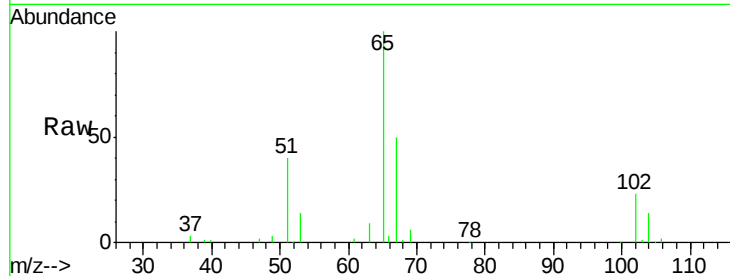




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.47 min Scan# 614
 Delta R.T. -0.03 min
 Lab File: VD061820.D
 Acq: 16 Apr 2019 19:50

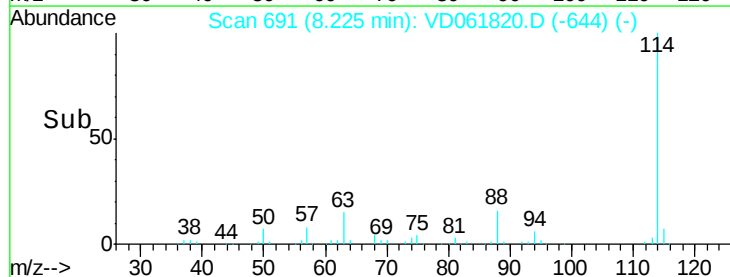
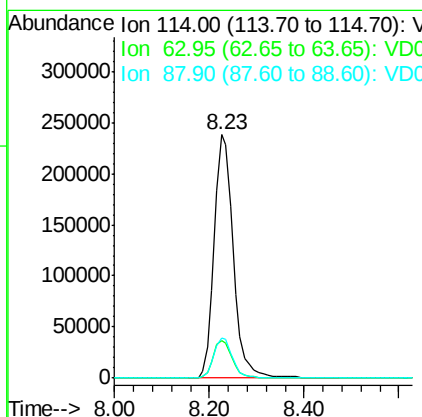
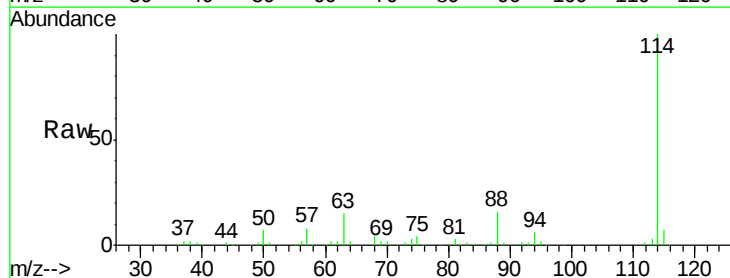
Instrument :
 MSVOA_D
 ClientSampleId :

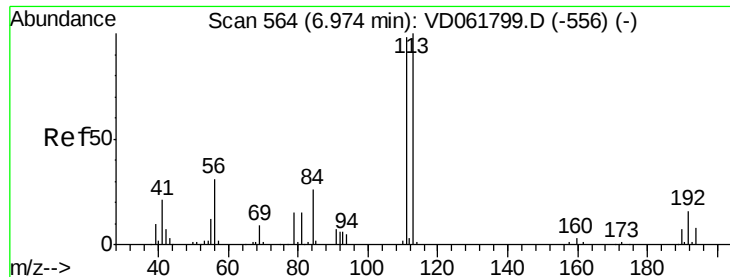
Tot Ion: 65 Resp: 222181
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. -0.04 min
 Lab File: VD061820.D
 Acq: 16 Apr 2019 19:50

Tgt Ion: 114 Resp: 668942
 Ion Ratio Lower Upper
 114 100
 63 15.4 0.0 32.4
 88 16.4 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.94 min Scan# 560

Delta R.T. -0.04 min

Lab File: VD061820.D

Acq: 16 Apr 2019 19:50

Instrument :
MSVOA_D
ClientSampleId :

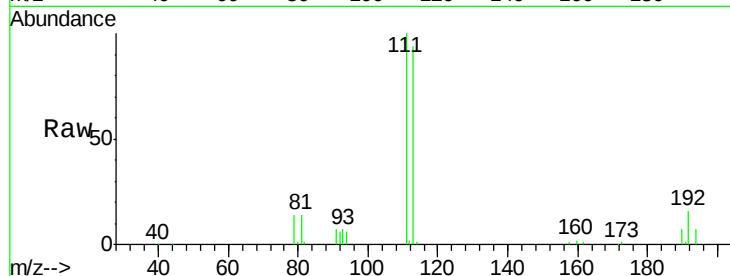
Tot Ion:113 Resp: 324769

Ion Ratio Lower Upper

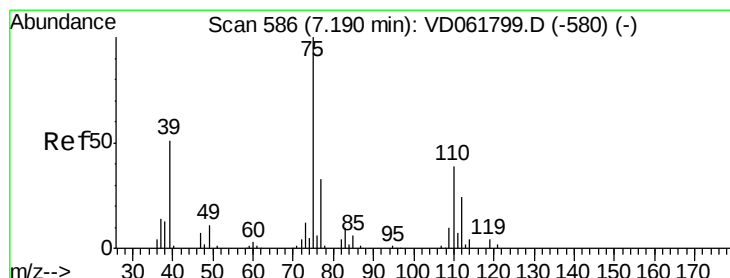
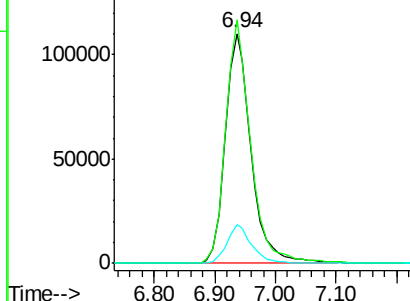
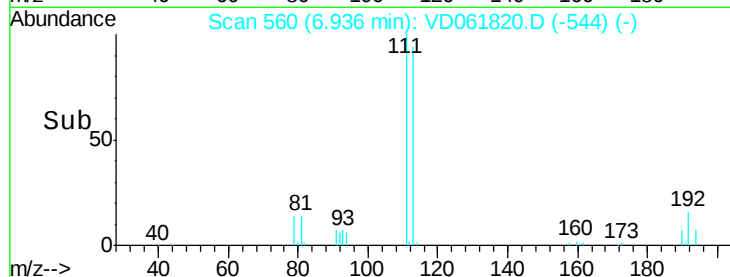
113 100

111 105.8 78.5 117.7

192 16.9 13.0 19.4



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: 4.282 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.14 min

Lab File: VD061820.D

Acq: 16 Apr 2019 19:50

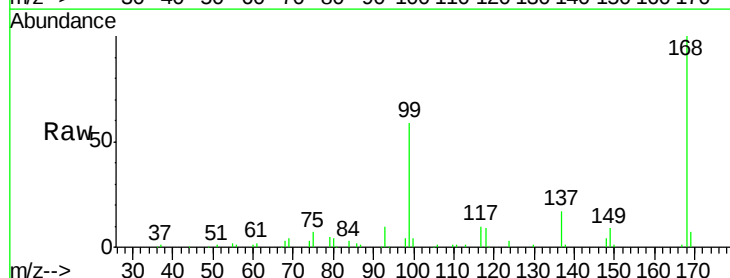
Tgt Ion: 75 Resp: 23406

Ion Ratio Lower Upper

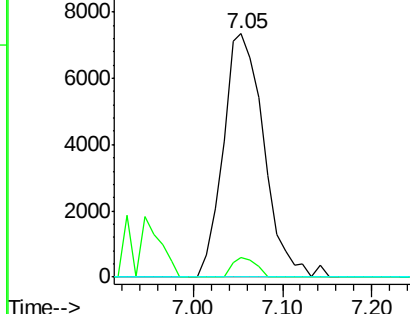
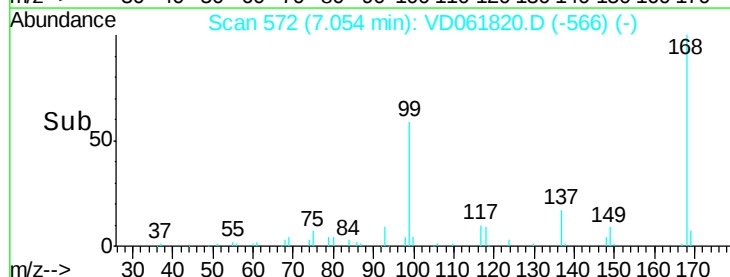
75 100

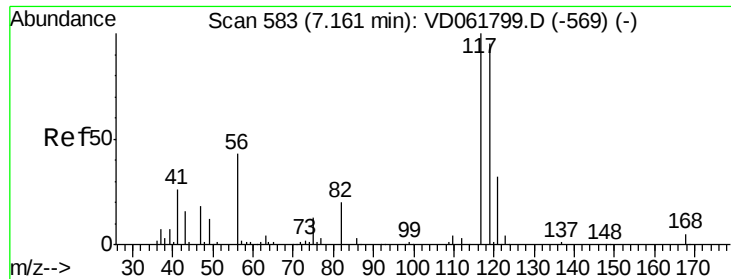
110 7.9 19.1 57.1#

77 0.0 25.6 38.4#



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: 4.416 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.11 min

Lab File: VD061820.D

Acq: 16 Apr 2019 19:50

Instrument :

MSVOA_D

ClientSampleId :

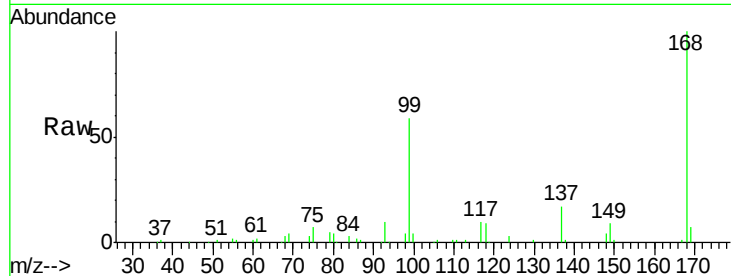
Tot Ion:117 Resp: 30480

Ion Ratio Lower Upper

117 100

119 4.2 75.8 113.8#

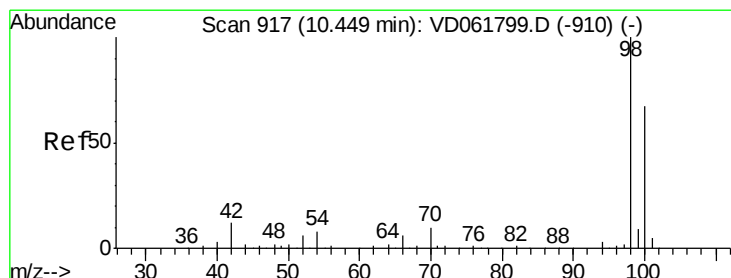
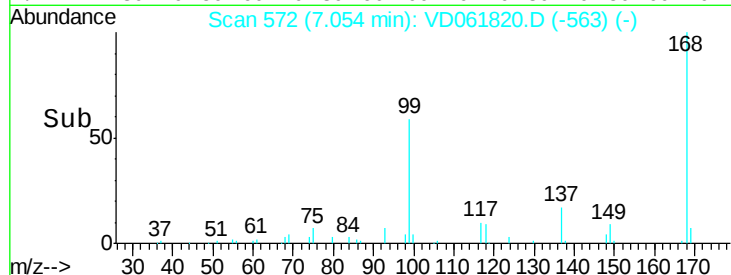
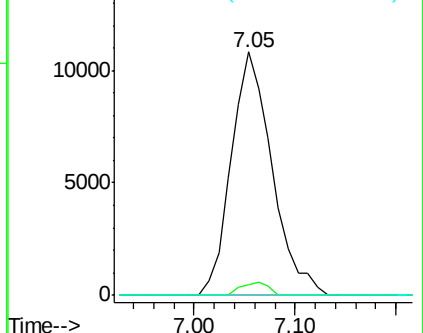
121 0.0 25.9 38.9#



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.04 min

Lab File: VD061820.D

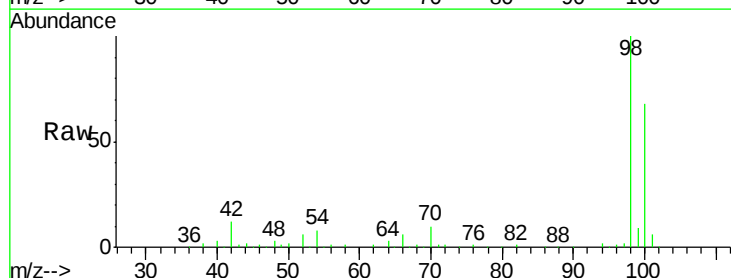
Acq: 16 Apr 2019 19:50

Tgt Ion: 98 Resp: 604794

Ion Ratio Lower Upper

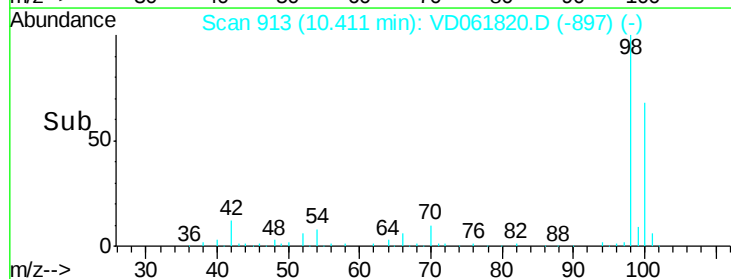
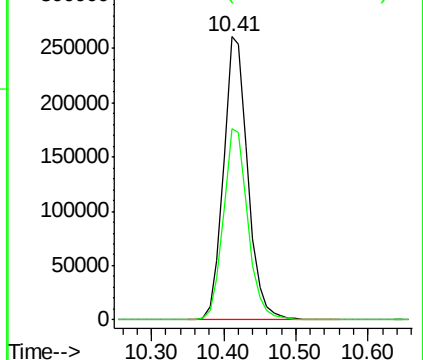
98 100

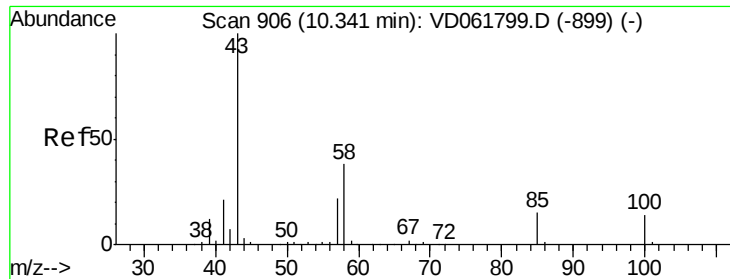
100 67.6 53.8 80.8



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: 1.283 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.07 min

Lab File: VD061820.D

Acq: 16 Apr 2019 19:50

Instrument :

MSVOA_D

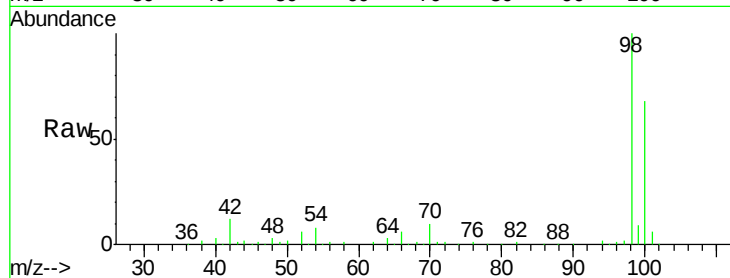
ClientSampleId :

Tot Ion: 43 Resp: 2583

Ion Ratio Lower Upper

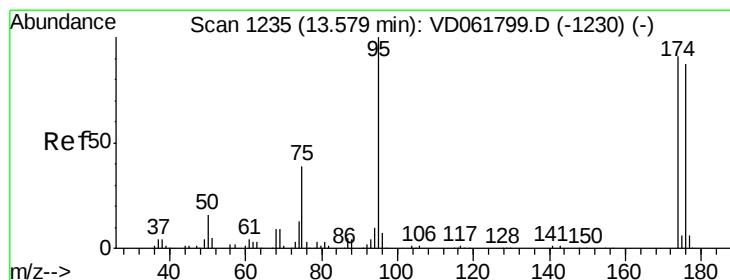
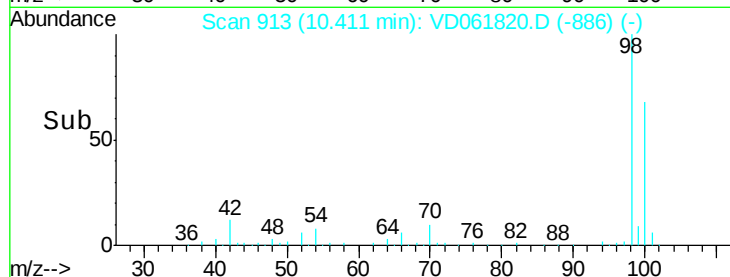
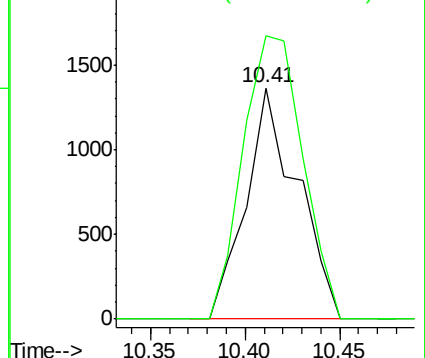
43 100

58 122.4 30.4 45.6#



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: 13.56 min Scan# 1233

Delta R.T. -0.02 min

Lab File: VD061820.D

Acq: 16 Apr 2019 19:50

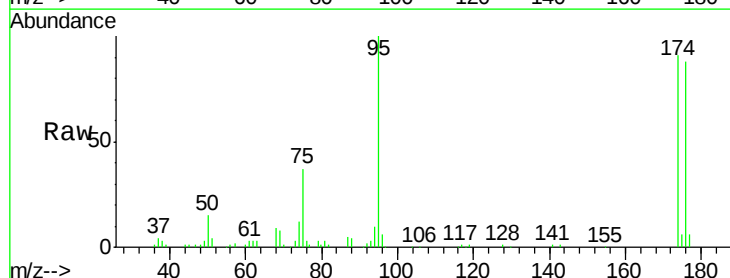
Tgt Ion: 95 Resp: 234905

Ion Ratio Lower Upper

95 100

174 90.6 0.0 181.8

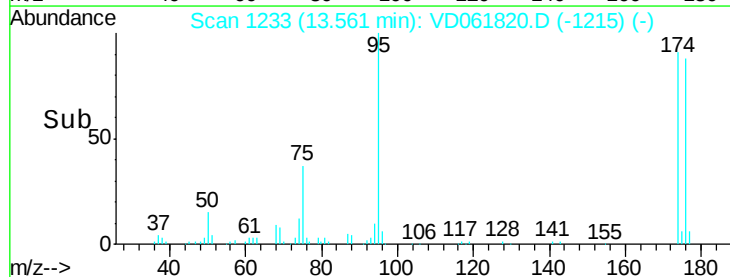
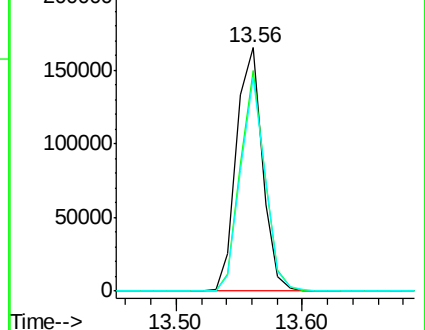
176 88.2 0.0 174.4

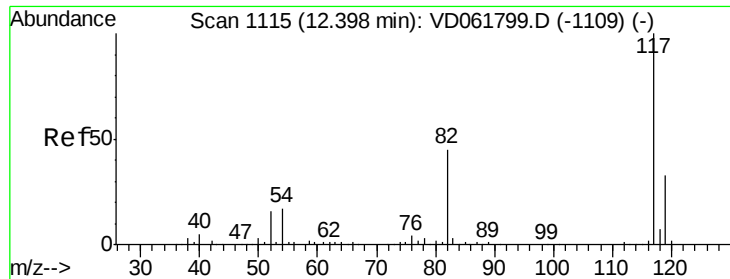


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

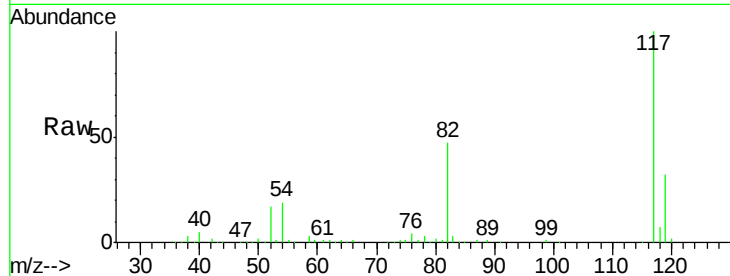




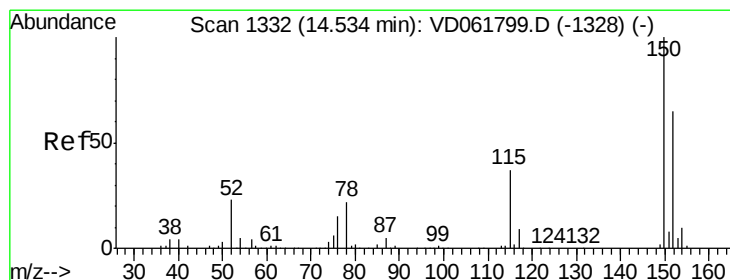
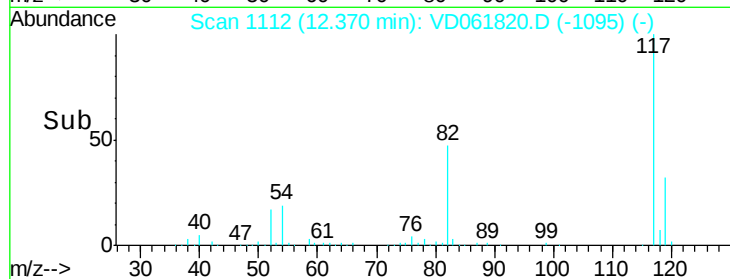
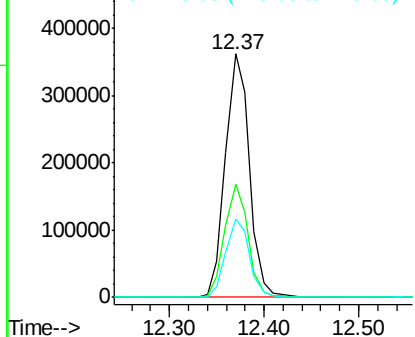
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.03 min
Lab File: VD061820.D
Acq: 16 Apr 2019 19:50

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 636568
Ion Ratio Lower Upper
117 100
82 46.7 36.2 54.2
119 32.1 26.2 39.4

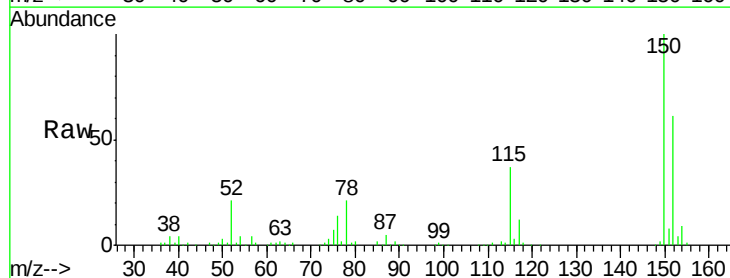


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

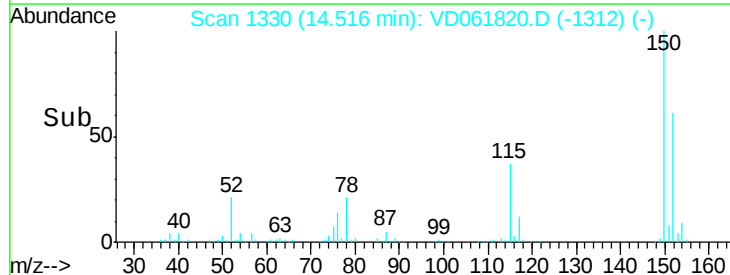
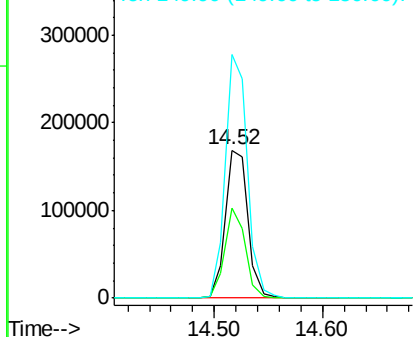


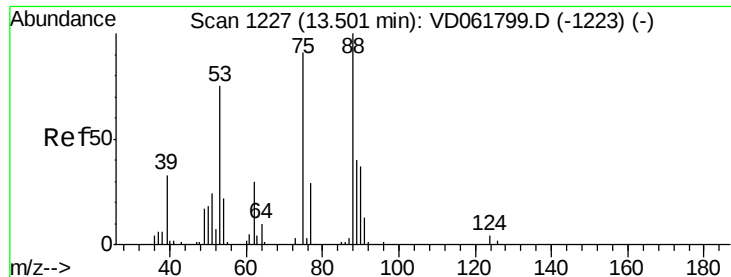
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.02 min
Lab File: VD061820.D
Acq: 16 Apr 2019 19:50

Tgt Ion:152 Resp: 245368
Ion Ratio Lower Upper
152 100
115 61.3 30.9 92.7
150 164.7 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: 83.712 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.06 min

Lab File: VD061820.D

Acq: 16 Apr 2019 19:50

Instrument :

MSVOA_D

ClientSampleId :

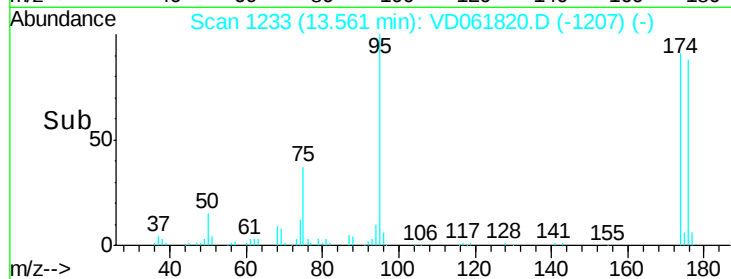
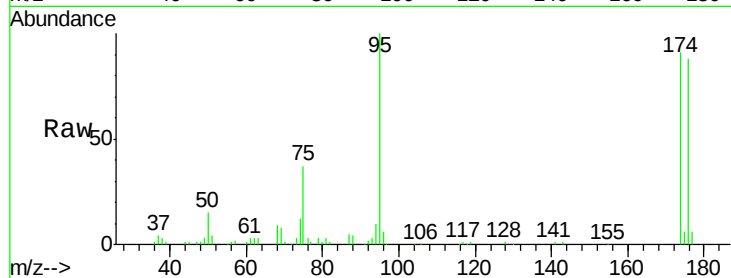
Tot Ion: 75 Resp: 89938

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

