

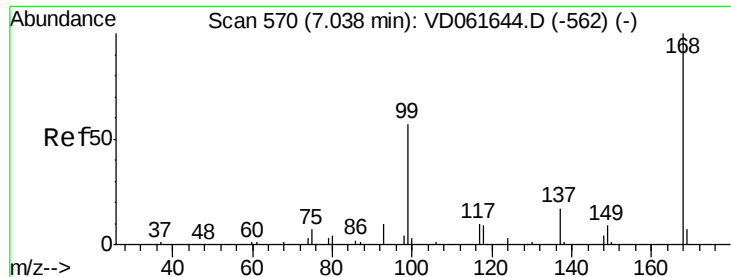
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040819\
 Data File : VD061660.D
 Acq On : 8 Apr 2019 19:46
 Operator : VA/AP
 Sample : K2305-02
 Misc : 4.09g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 09 01:22:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 10:04:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	188136	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	309307	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.38	117	275236	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	129140	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.47	65	103709	72.72	ug/l	0.01
Spiked Amount 50.000			Recovery	=	145.44%	
35) Dibromofluoromethane	6.93	113	129560	60.46	ug/l	0.01
Spiked Amount 50.000			Recovery	=	120.92%	
50) Toluene-d8	10.42	98	257619	47.85	ug/l	0.01
Spiked Amount 50.000			Recovery	=	95.70%	
62) 4-Bromofluorobenzene	13.56	95	119348	68.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	136.16%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.16	94	376	1.060	ug/l #	12
8) Diethyl Ether	2.88	74	696	1.072	ug/l	77
11) Tert butyl alcohol	4.00	59	2479	25.938	ug/l #	72
16) Acetone	3.22	43	21756	51.035	ug/l	97
20) Methylene Chloride	3.82	84	37081	15.329	ug/l	92
31) Cyclohexane	7.06	56	2810	1.047	ug/l #	12
36) 1,1-Dichloropropene	7.05	75	12884	4.759	ug/l #	46
38) Carbon Tetrachloride	7.05	117	17486	5.512	ug/l #	11
76) 1,2,3-Trichloropropane	13.56	75	34390	19.574	ug/l #	47
81) trans-1,4-Dichloro-2-buten	13.56	75	43977	82.485	ug/l #	20

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD061660.D

Acq: 8 Apr 2019 19:46

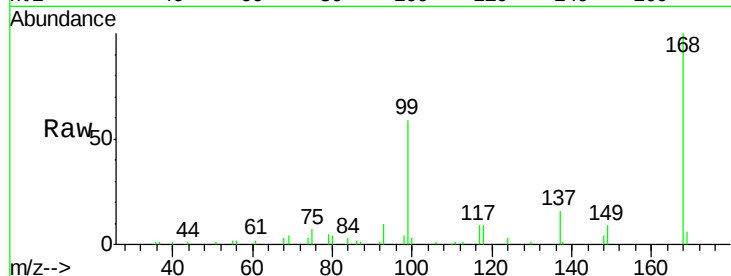
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 188136

Ion Ratio Lower Upper

168 100

99 59.0 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

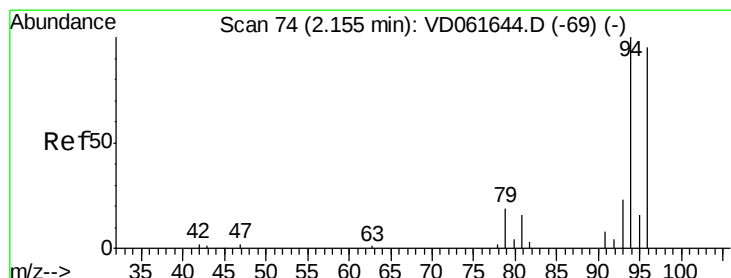
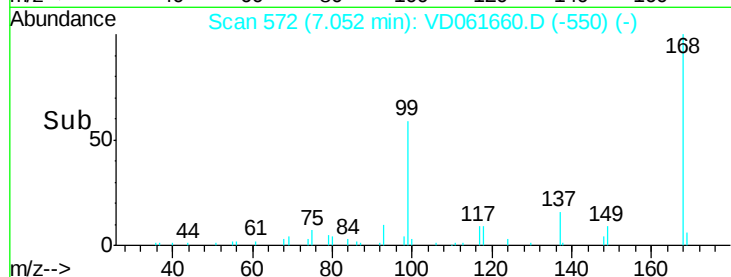
60000

40000

20000

0

Time--> 6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 1.060 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.00 min

Lab File: VD061660.D

Acq: 8 Apr 2019 19:46

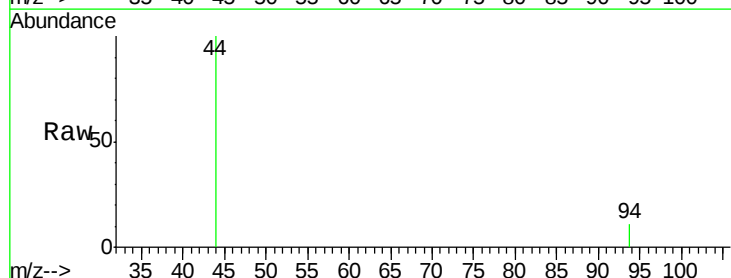
Tgt Ion: 94 Resp: 376

Ion Ratio Lower Upper

94 100

96 0.0 75.8 113.8#

93 0.0 18.6 28.0#



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

500

400

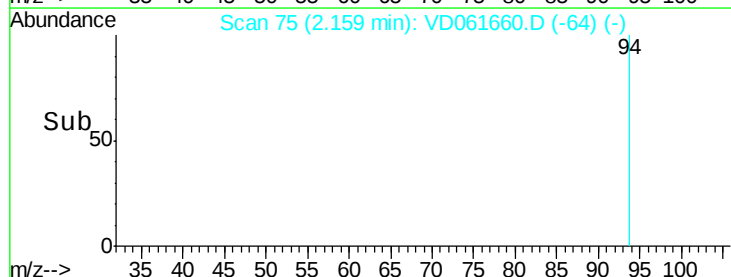
300

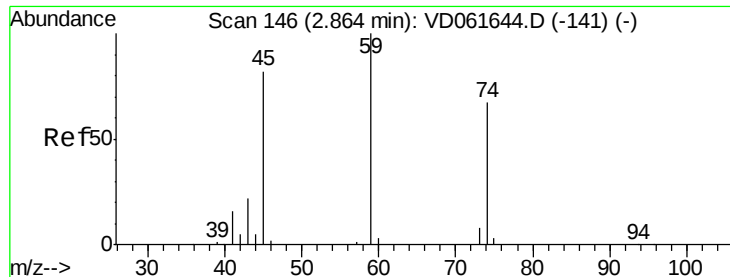
200

100

0

Time--> 2.12 2.14 2.16 2.18





#8

Diethyl Ether

Concen: 1.072 ug/l

RT: 2.88 min Scan# 148

Delta R.T. 0.01 min

Lab File: VD061660.D

Acq: 8 Apr 2019 19:46

Instrument :

MSVOA_D

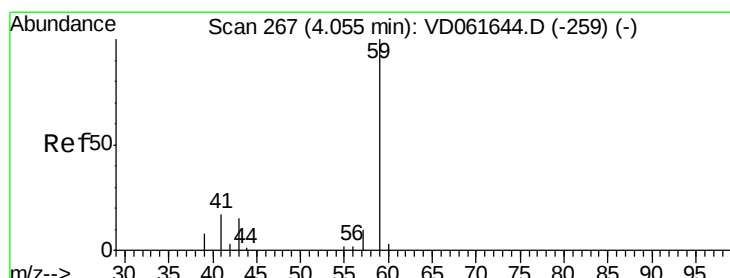
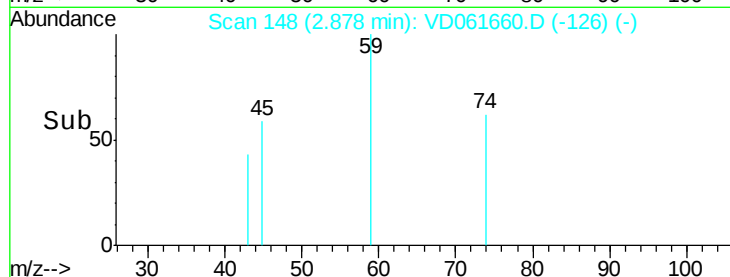
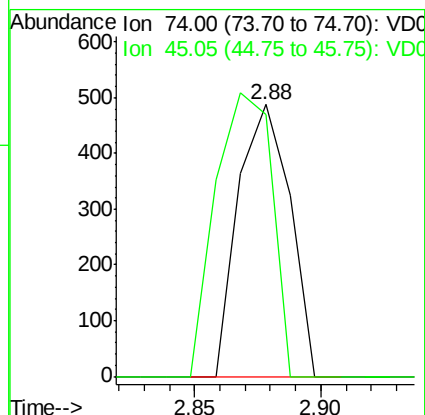
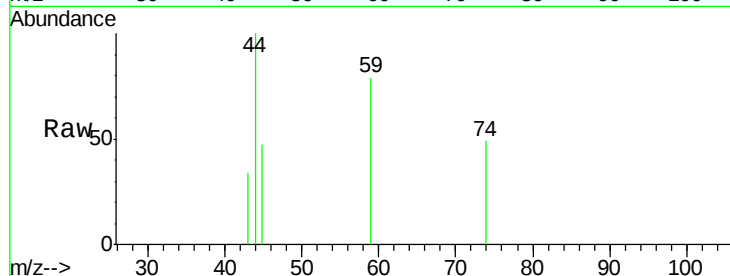
ClientSampleId :

Tot Ion: 74 Resp: 696

Ion Ratio Lower Upper

74 100

45 96.1 61.0 183.0



#11

Tert butyl alcohol

Concen: 25.938 ug/l

RT: 4.00 min Scan# 262

Delta R.T. -0.05 min

Lab File: VD061660.D

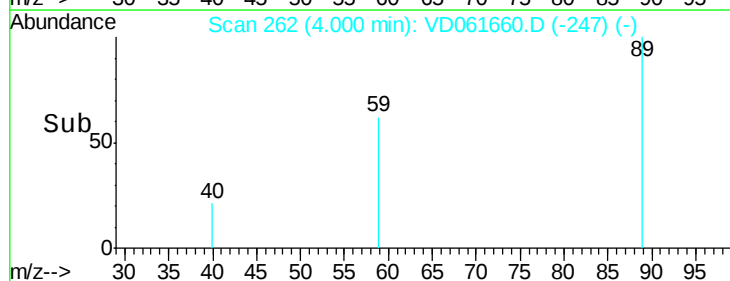
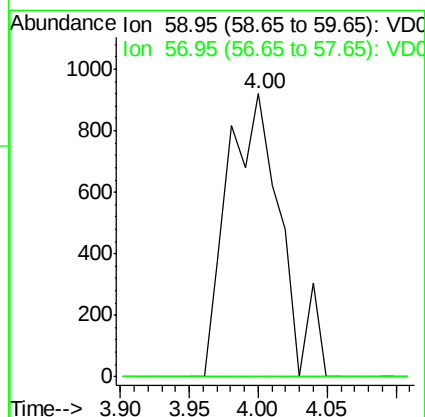
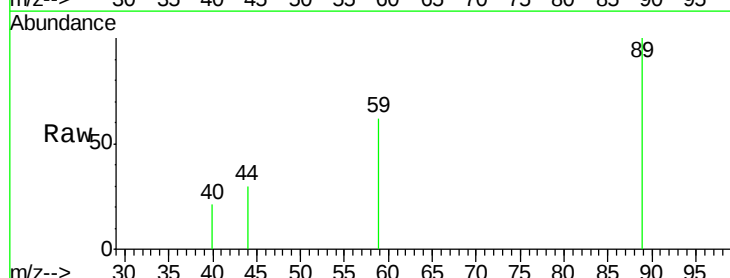
Acq: 8 Apr 2019 19:46

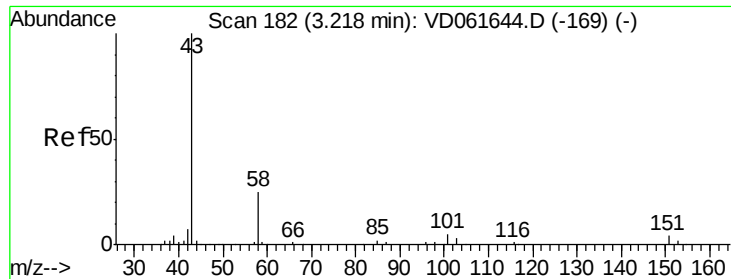
Tgt Ion: 59 Resp: 2479

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#

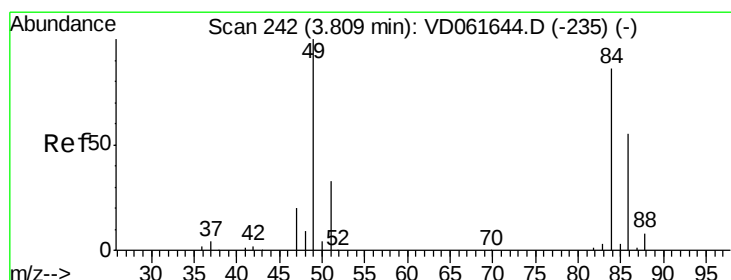
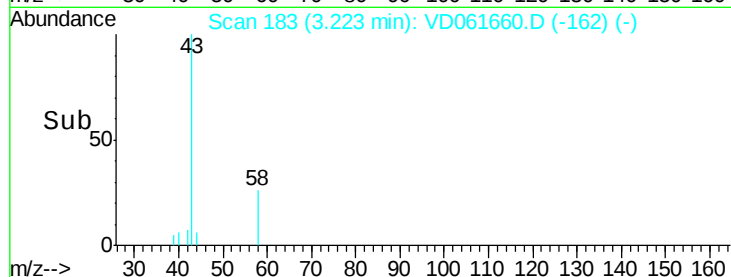
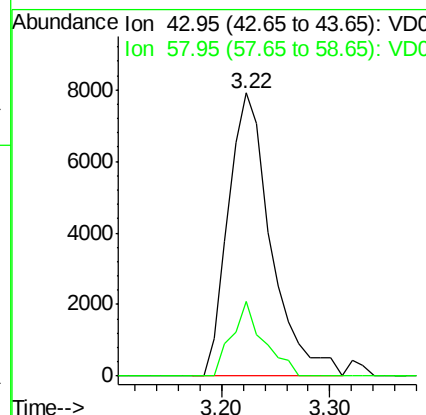
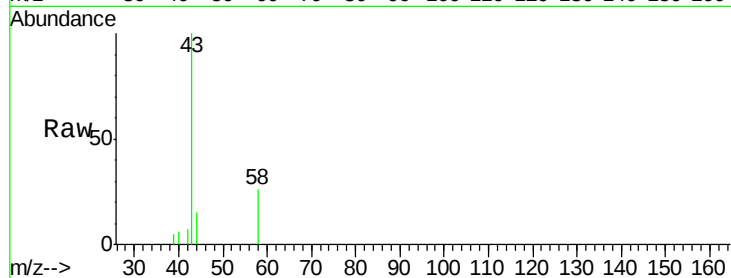




#16
Acetone
Concen: 51.035 ug/l
RT: 3.22 min Scan# 183
Delta R.T. 0.00 min
Lab File: VD061660.D
Acq: 8 Apr 2019 19:46

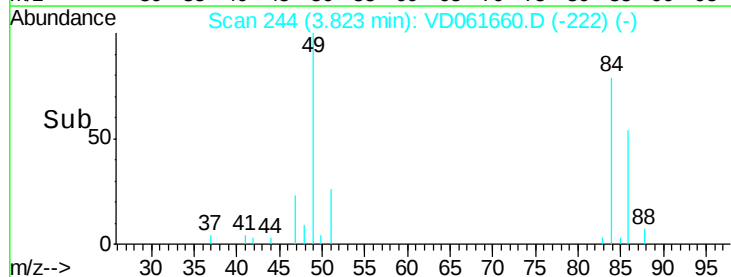
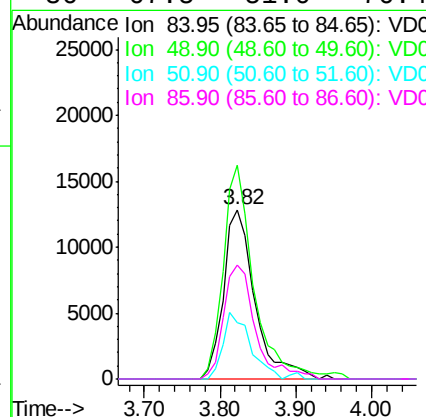
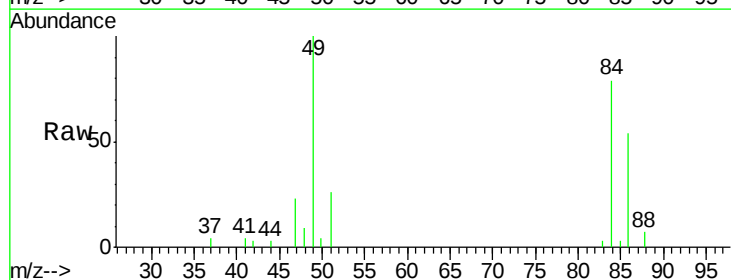
Instrument :
MSVOA_D
ClientSampleId :

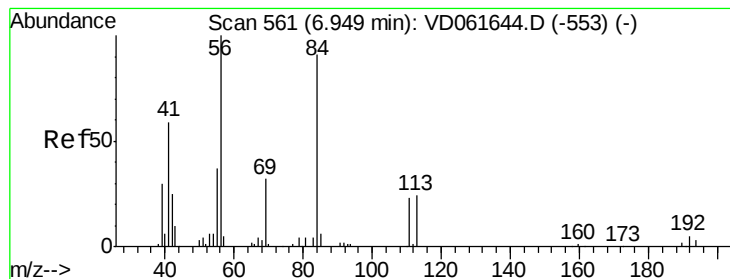
Tot Ion: 43 Resp: 21756
Ion Ratio Lower Upper
43 100
58 26.3 19.7 29.5



#20
Methylene Chloride
Concen: 15.329 ug/l
RT: 3.82 min Scan# 244
Delta R.T. 0.02 min
Lab File: VD061660.D
Acq: 8 Apr 2019 19:46

Tgt Ion: 84 Resp: 37081
Ion Ratio Lower Upper
84 100
49 126.1 93.0 139.4
51 33.4 30.4 45.6
86 67.5 51.0 76.4





#31

Cvclohexane

Concen: 1.047 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.11 min

Lab File: VD061660.D

Acq: 8 Apr 2019 19:46

Instrument :
MSVOA_D
ClientSampleId :

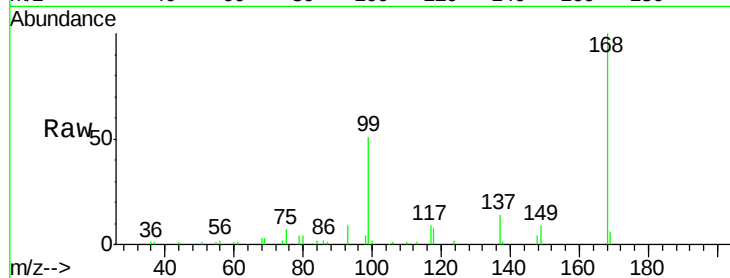
Tot Ion: 56 Resp: 2810

Ion Ratio Lower Upper

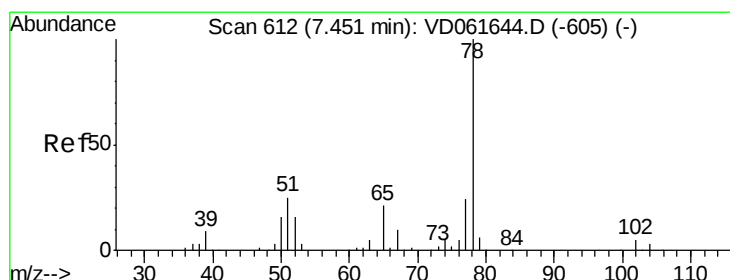
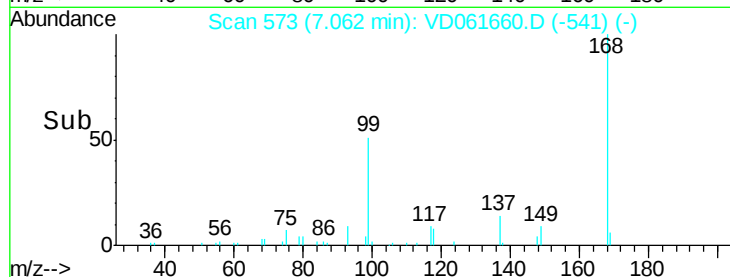
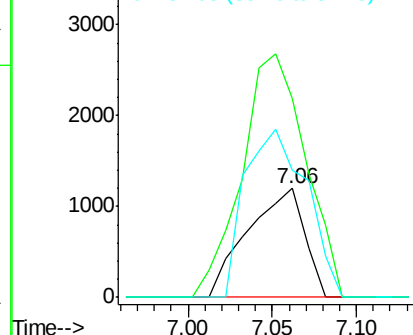
56 100

69 183.1 25.8 38.6#

84 117.0 74.2 111.2#



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. 0.01 min

Lab File: VD061660.D

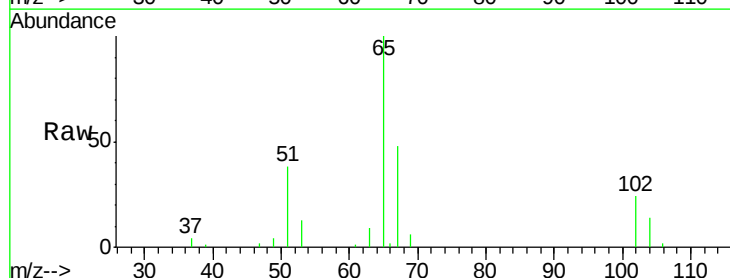
Acq: 8 Apr 2019 19:46

Tgt Ion: 65 Resp: 103709

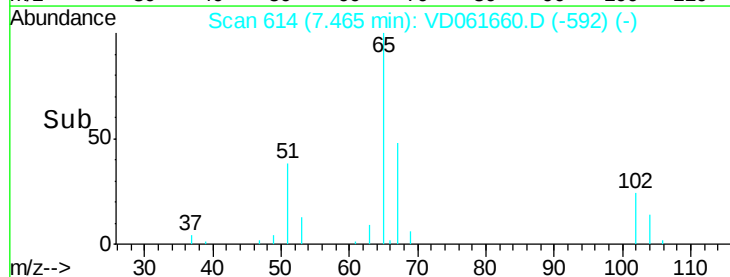
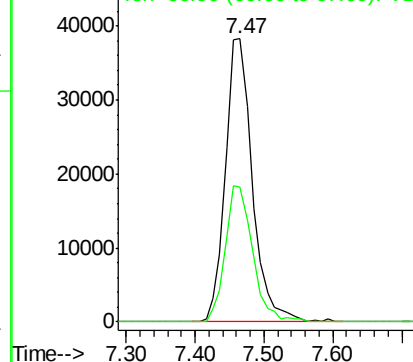
Ion Ratio Lower Upper

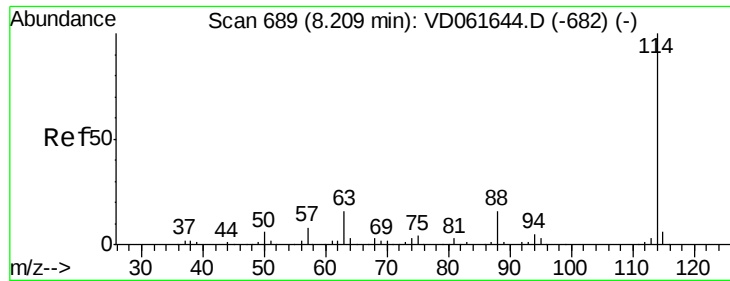
65 100

67 47.8 0.0 99.4



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

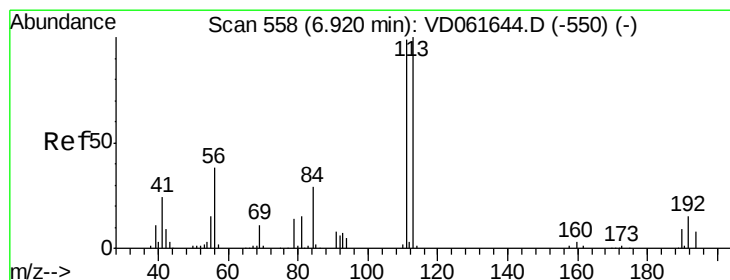
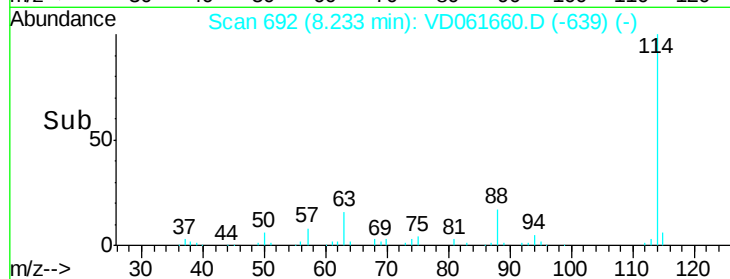
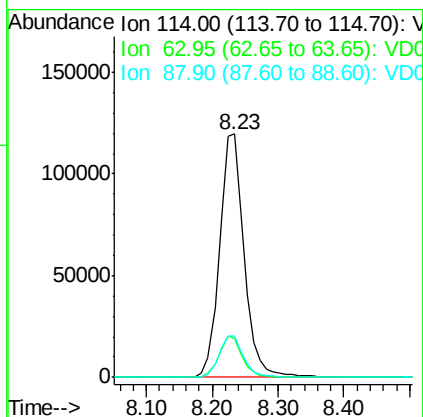
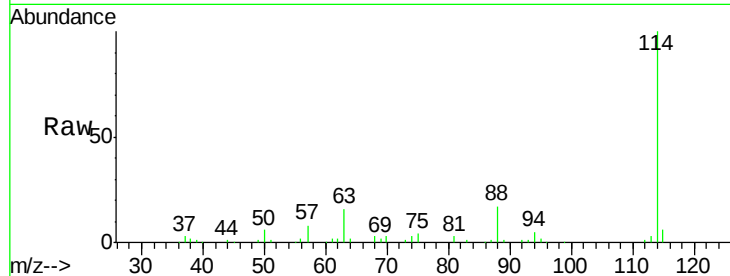




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 692
 Delta R.T. 0.02 min
 Lab File: VD061660.D
 Acq: 8 Apr 2019 19:46

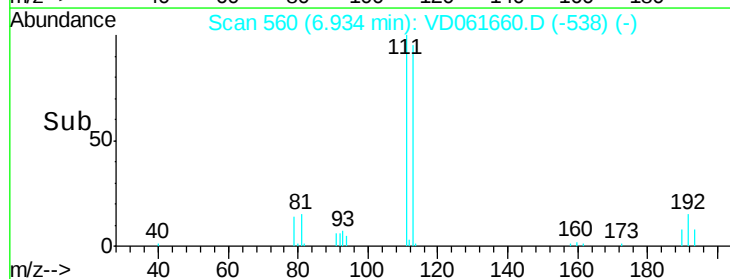
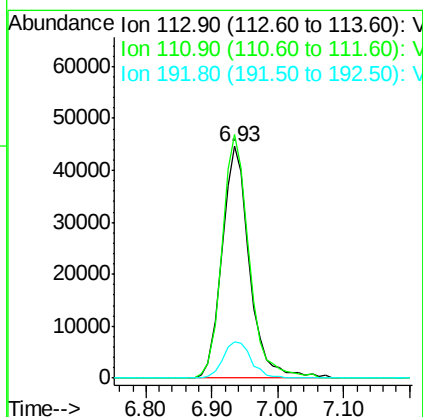
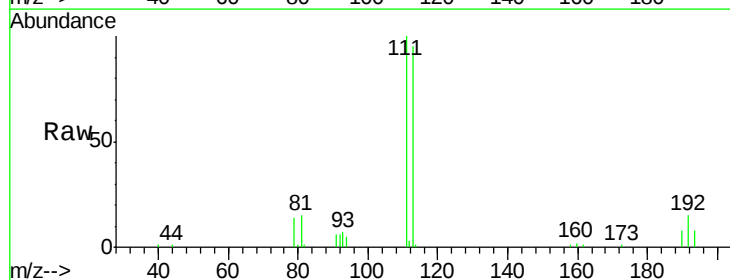
Instrument :
 MSVOA_D
 ClientSampleId :

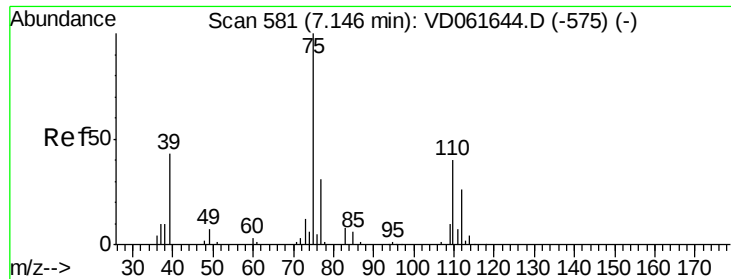
Tot Ion:114 Resp: 309307
 Ion Ratio Lower Upper
 114 100
 63 16.2 0.0 31.2
 88 16.8 0.0 31.8



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 560
 Delta R.T. 0.01 min
 Lab File: VD061660.D
 Acq: 8 Apr 2019 19:46

Tgt Ion:113 Resp: 129560
 Ion Ratio Lower Upper
 113 100
 111 105.0 79.3 118.9
 192 15.6 12.3 18.5





#36

1,1-Dichloropropene

Concen: 4.759 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.09 min

Lab File: VD061660.D

Acq: 8 Apr 2019 19:46

Instrument :

MSVOA_D

ClientSampled :

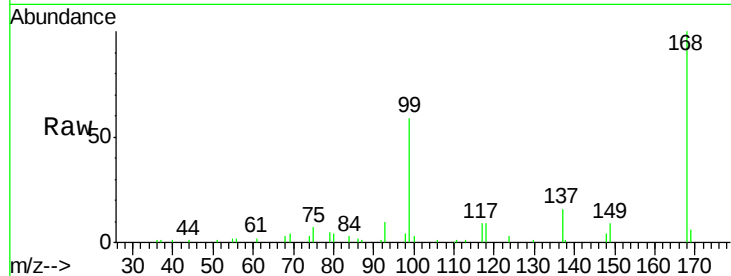
Tot Ion: 75 Resp: 12884

Ion Ratio Lower Upper

75 100

110 7.0 19.7 59.0#

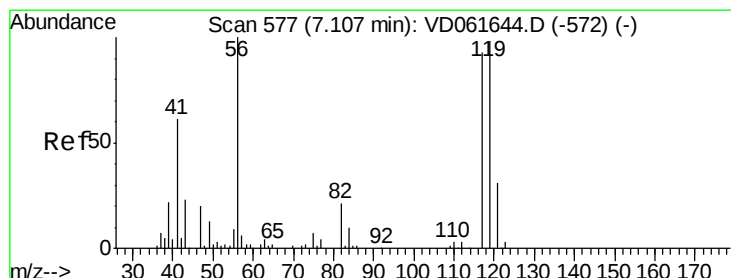
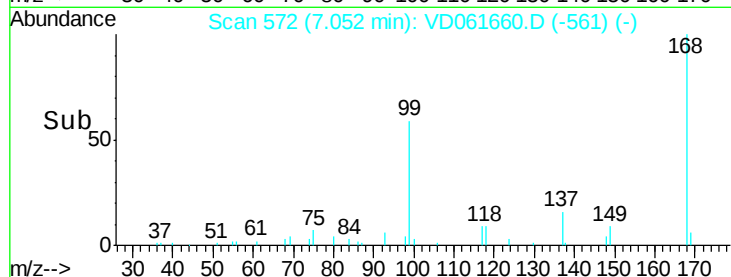
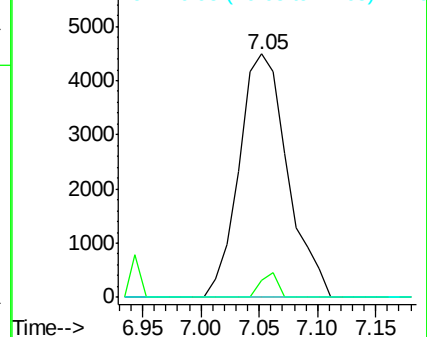
77 0.0 24.8 37.2#



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



#38

Carbon Tetrachloride

Concen: 5.512 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.05 min

Lab File: VD061660.D

Acq: 8 Apr 2019 19:46

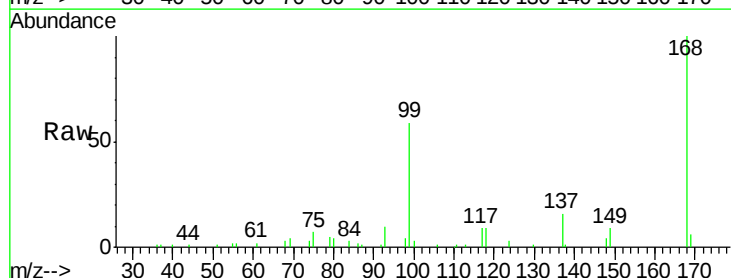
Tgt Ion: 117 Resp: 17486

Ion Ratio Lower Upper

117 100

119 0.0 77.9 116.9#

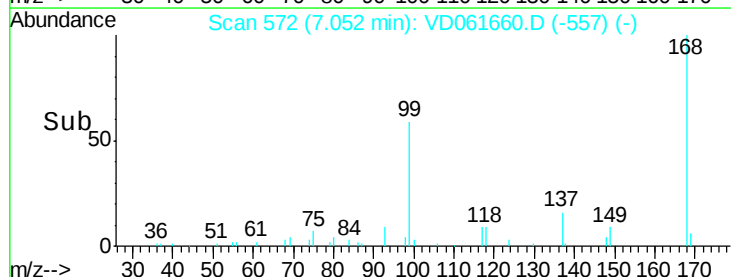
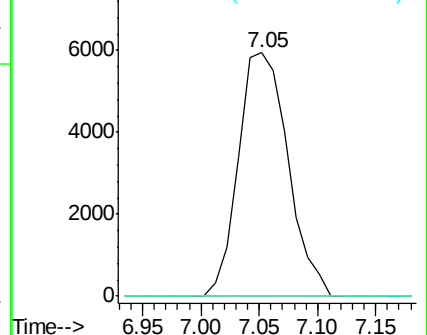
121 0.0 24.7 37.1#

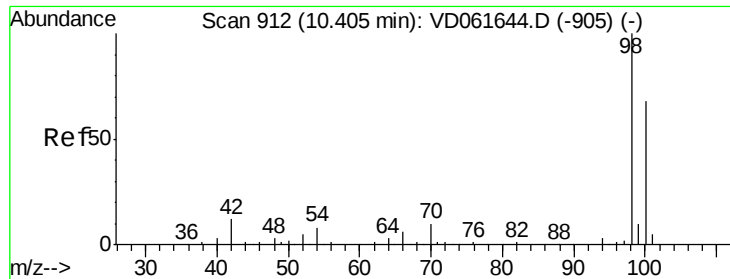


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

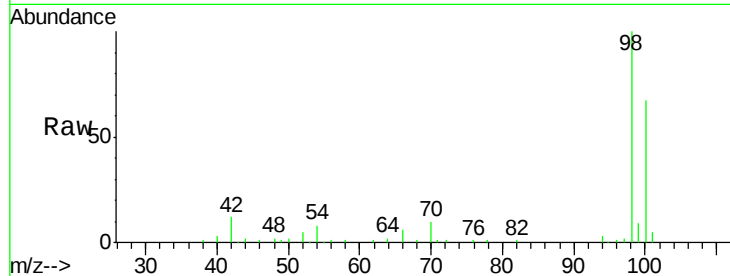




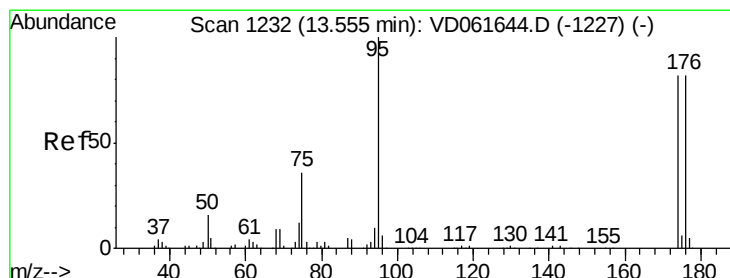
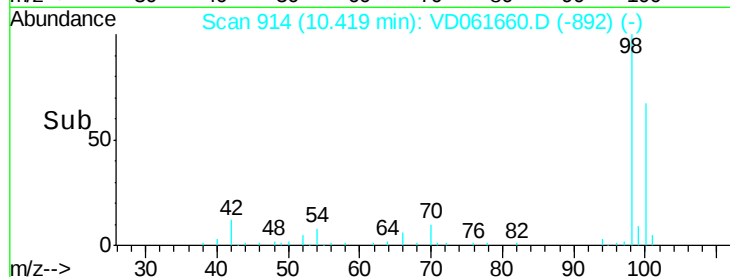
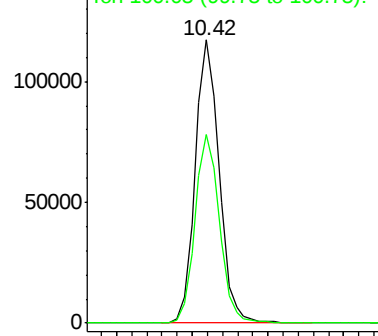
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD061660.D
Acq: 8 Apr 2019 19:46

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 257619
Ion Ratio Lower Upper
98 100
100 66.9 55.4 83.0

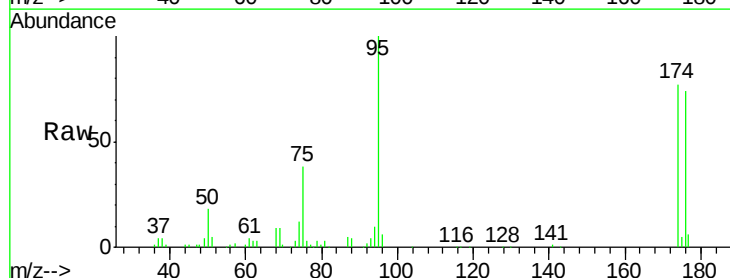


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

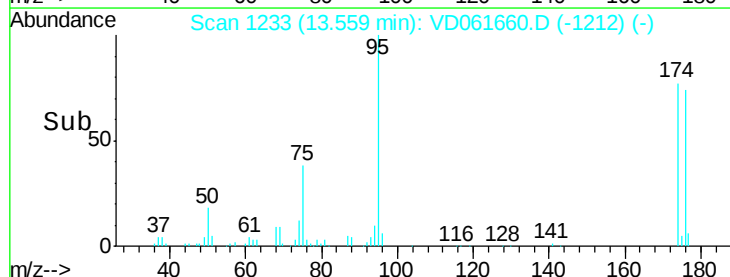
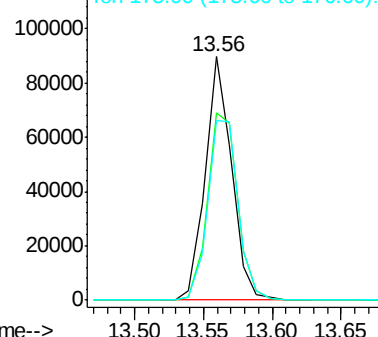


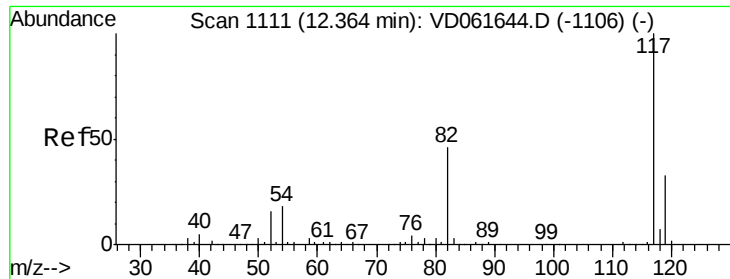
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD061660.D
Acq: 8 Apr 2019 19:46

Tgt Ion: 95 Resp: 119348
Ion Ratio Lower Upper
95 100
174 77.0 0.0 164.6
176 73.7 0.0 165.0



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

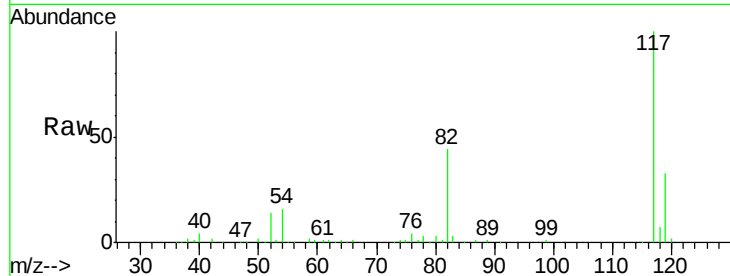




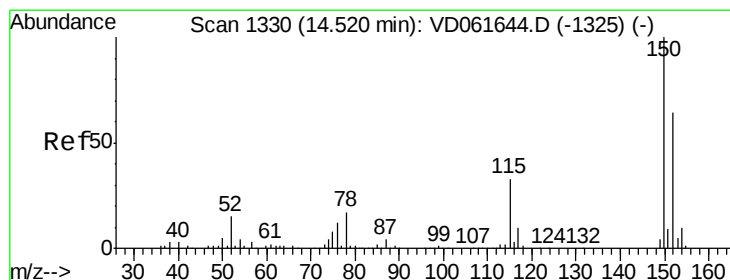
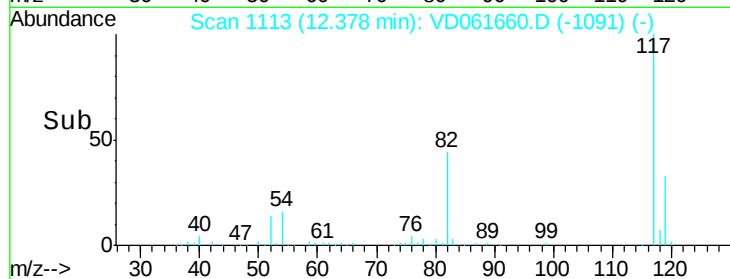
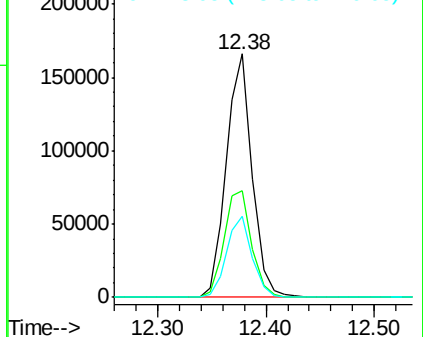
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD061660.D
Acq: 8 Apr 2019 19:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 275236
Ion Ratio Lower Upper
117 100
82 43.9 36.8 55.2
119 33.3 26.1 39.1

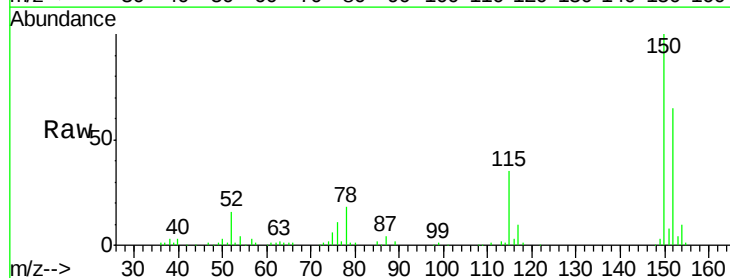


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

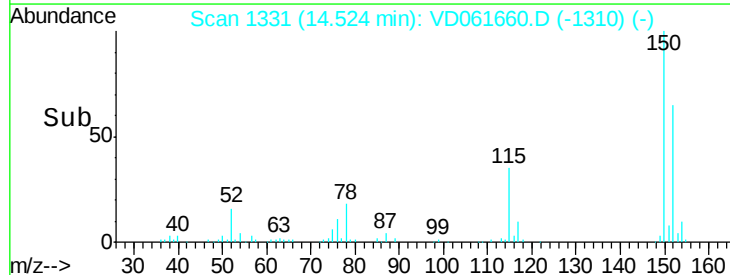
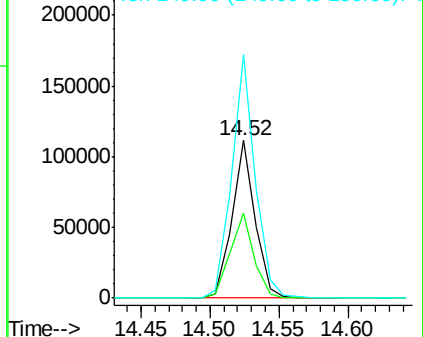


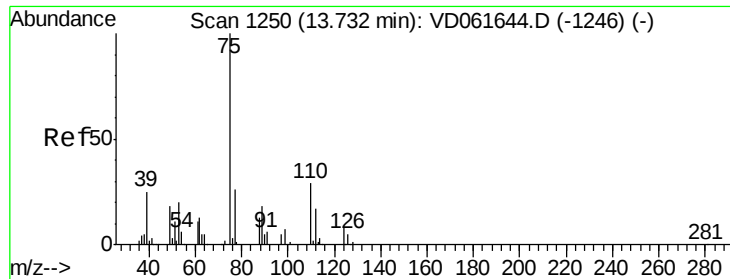
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VD061660.D
Acq: 8 Apr 2019 19:46

Tgt Ion:152 Resp: 129140
Ion Ratio Lower Upper
152 100
115 54.0 26.4 79.2
150 154.6 0.0 320.6



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: 19.574 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD061660.D

Acq: 8 Apr 2019 19:46

Instrument :

MSVOA_D

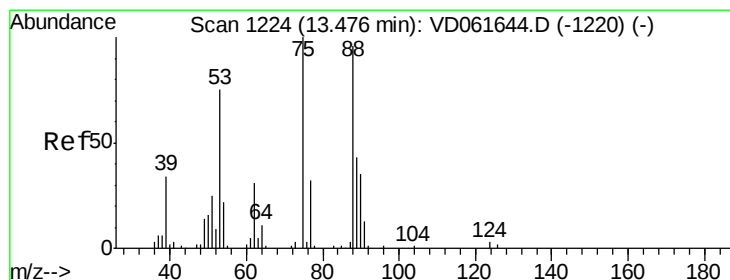
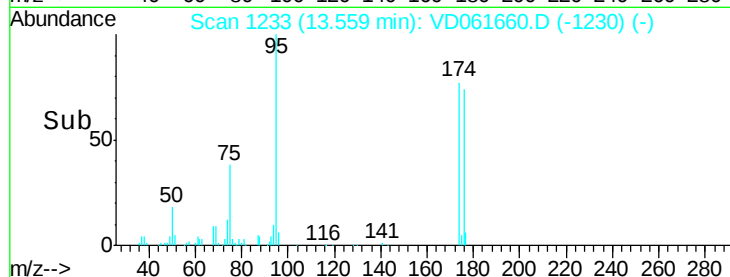
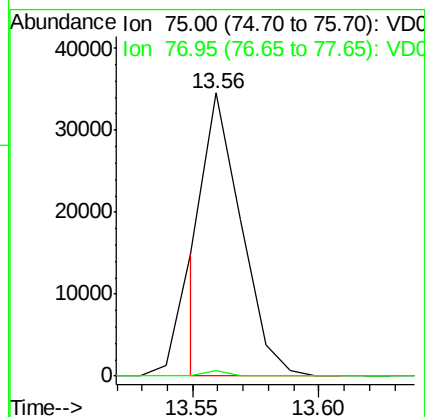
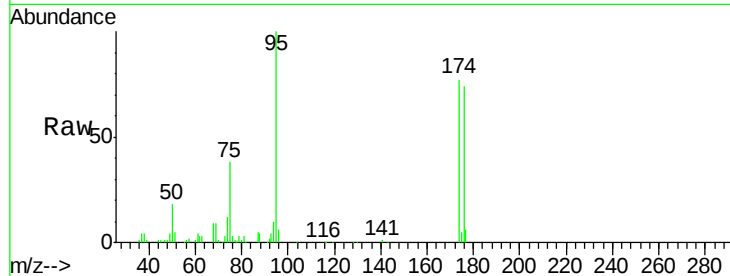
ClientSampleId :

Tot Ion: 75 Resp: 34390

Ion Ratio Lower Upper

75 100

77 2.2 15.7 47.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.485 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.08 min

Lab File: VD061660.D

Acq: 8 Apr 2019 19:46

Tgt Ion: 75 Resp: 43977

Ion Ratio Lower Upper

75 100

53 0.0 60.2 90.2#

89 0.0 34.2 51.2#

