

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041119\
 Data File : VD061764.D
 Acq On : 12 Apr 2019 4:43
 Operator : VA/AP
 Sample : K2342-10
 Misc : 4.76g/5ml/MSVOA D/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 12 05:54:35 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	7.03	168	438198	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	737883	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	487419	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	171492	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	195446	58.84	ug/l	0.00
Spiked Amount			Recovery	=	117.68%	
35) Dibromofluoromethane	6.92	113	306561	59.97	ug/l	0.00
Spiked Amount			Recovery	=	119.94%	
50) Toluene-d8	10.40	98	675217	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
62) 4-Bromofluorobenzene	13.55	95	200247	43.09	ug/l	0.00
Spiked Amount			Recovery	=	86.18%	

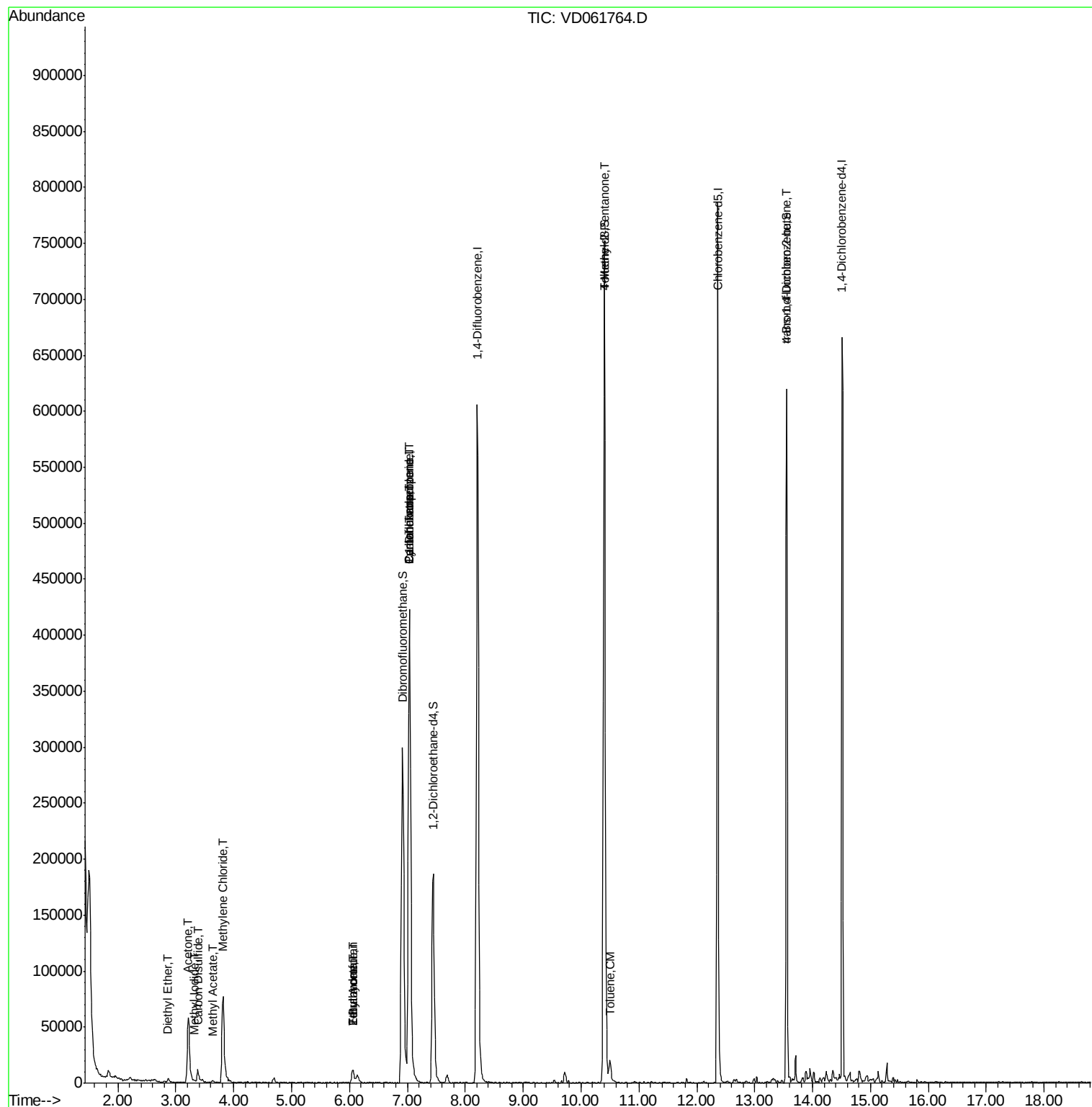
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.86	74	1531	1.012	ug/l	81
10) Methyl Iodide	3.32	142	436	3.706	ug/l #	38
16) Acetone	3.22	43	117726	118.566	ug/l	99
17) Carbon Disulfide	3.38	76	20050	1.351	ug/l #	94
18) Methyl Acetate	3.64	43	3098	1.658	ug/l #	53
20) Methylene Chloride	3.82	84	60999	10.826	ug/l	94
25) 2-Butanone	6.06	43	27525	24.046	ug/l #	89
29) Tetrahydrofuran	6.05	42	1165	2.108	ug/l #	1
31) Cyclohexane	7.03	56	7208	1.153	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	32417	5.020	ug/l #	48
37) Ethyl Acetate	6.06	43	27525	10.464	ug/l #	68
38) Carbon Tetrachloride	7.03	117	42979	5.679	ug/l #	13
51) 4-Methyl-2-Pentanone	10.39	43	2809	1.244	ug/l #	1
52) Toluene	10.50	92	11431	1.175	ug/l	84
81) trans-1,4-Dichloro-2-buten	13.55	75	73686	104.076	ug/l #	20

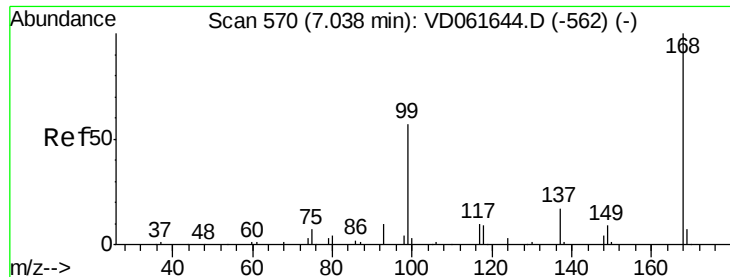
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD041119\
Data File : VD061764.D
Acq On : 12 Apr 2019 4:43
Operator : VA/AP
Sample : K2342-10
Misc : 4.76a/5ml/MSVOA D/SOIL
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

Quant Time: Apr 12 05:54:35 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
Quant Title : SW846 8260
QLast Update : Mon Apr 08 10:04:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.00 min

Lab File: VD061764.D

Acq: 12 Apr 2019 4:43

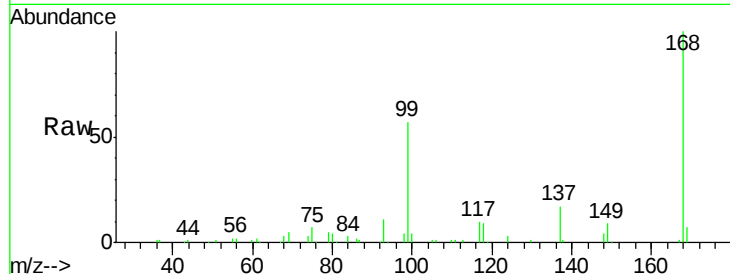
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 438198

Ion Ratio Lower Upper

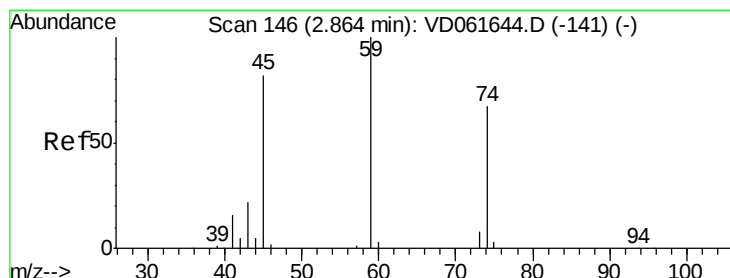
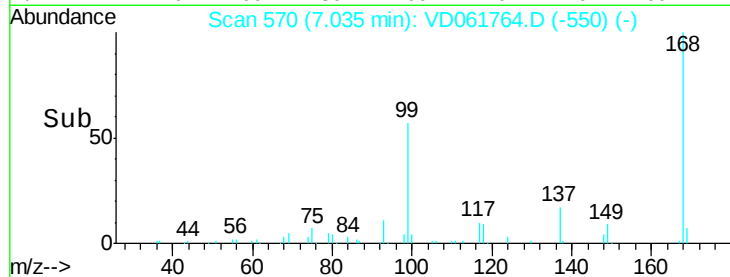
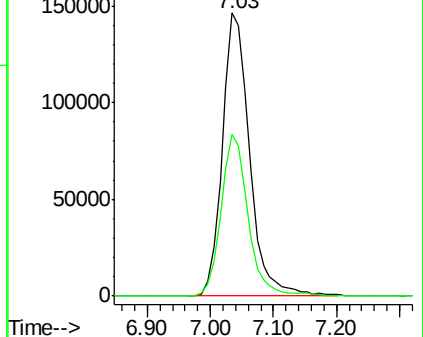
168 100

99 57.2 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.012 ug/l

RT: 2.86 min Scan# 146

Delta R.T. -0.00 min

Lab File: VD061764.D

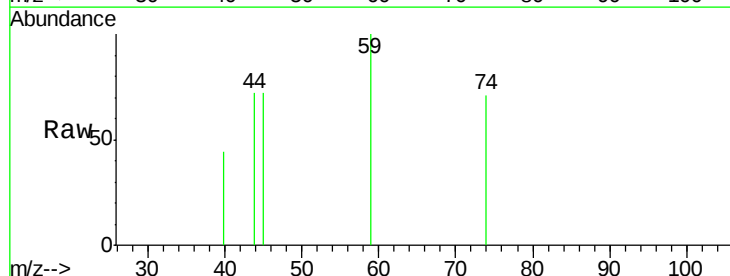
Acq: 12 Apr 2019 4:43

Tgt Ion: 74 Resp: 1531

Ion Ratio Lower Upper

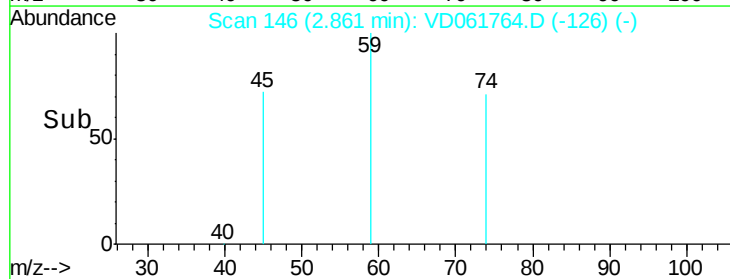
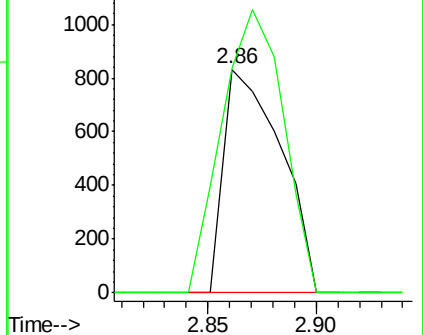
74 100

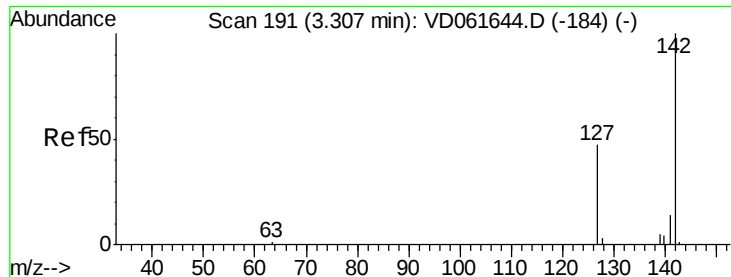
45 100.7 61.0 183.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

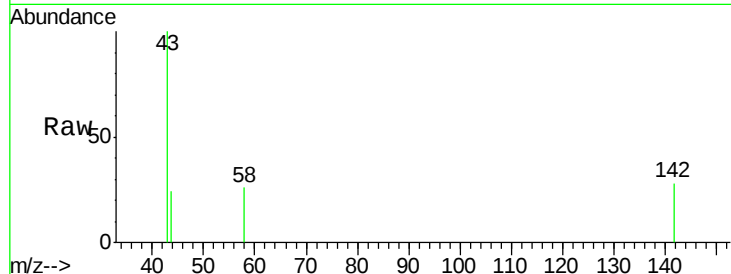




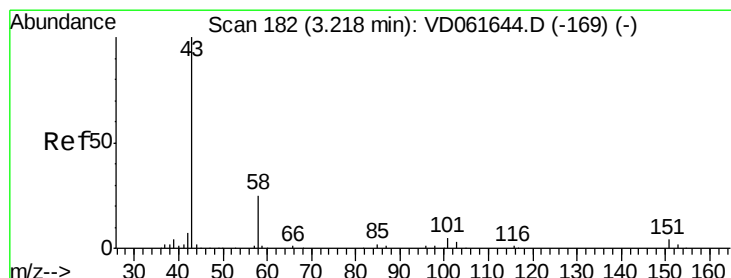
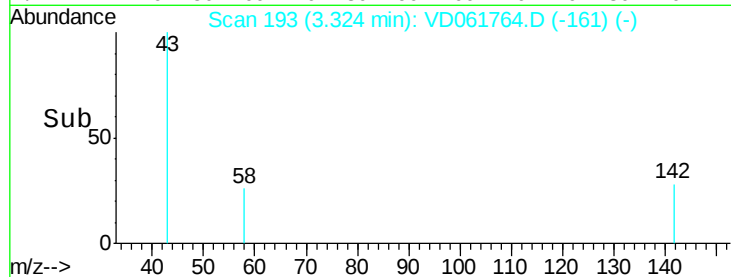
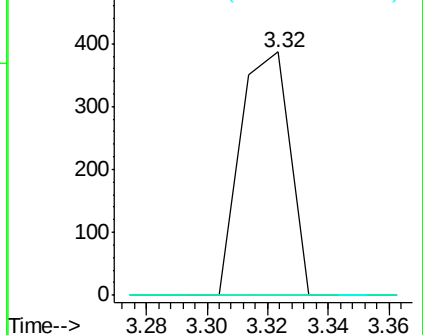
#10
Methvl Iodide
Concen: 3.706 ug/l
RT: 3.32 min Scan# 193
Delta R.T. 0.02 min
Lab File: VD061764.D
Acq: 12 Apr 2019 4:43

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:142 Resp: 436
Ion Ratio Lower Upper
142 100
127 0.0 37.2 55.8#
141 0.0 10.8 16.2#

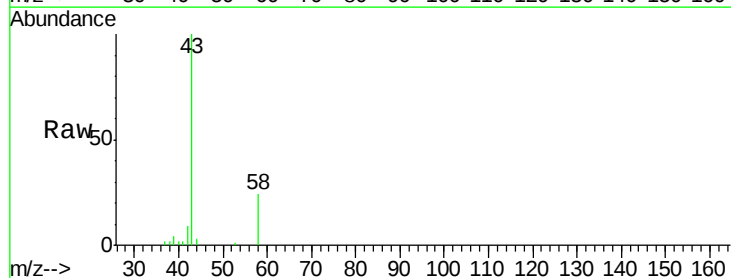


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

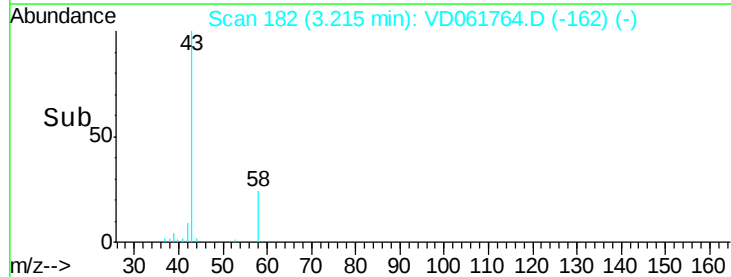
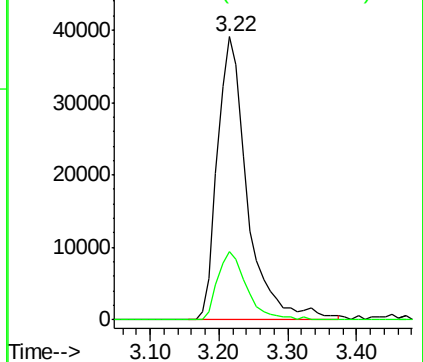


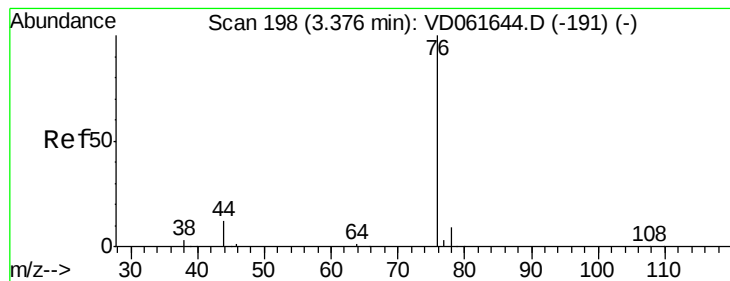
#16
Acetone
Concen: 118.566 ug/l
RT: 3.22 min Scan# 182
Delta R.T. -0.00 min
Lab File: VD061764.D
Acq: 12 Apr 2019 4:43

Tgt Ion: 43 Resp: 117726
Ion Ratio Lower Upper
43 100
58 24.3 19.7 29.5



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 1.351 ug/l

RT: 3.38 min Scan# 199

Delta R.T. 0.01 min

Lab File: VD061764.D

Acq: 12 Apr 2019 4:43

Instrument :

MSVOA_D

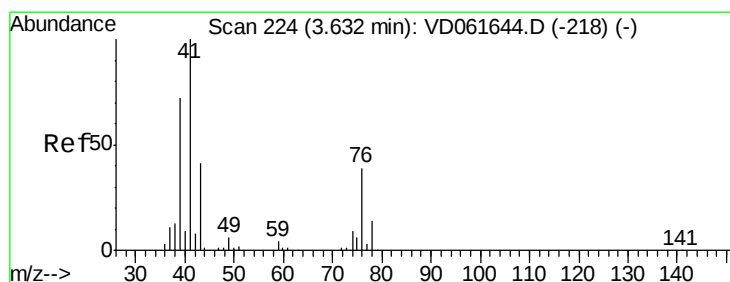
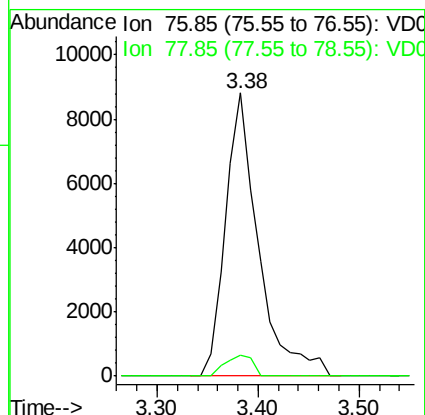
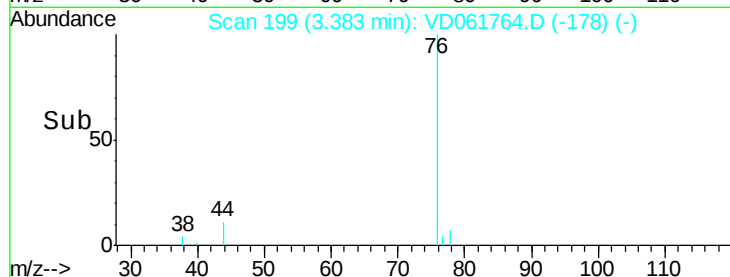
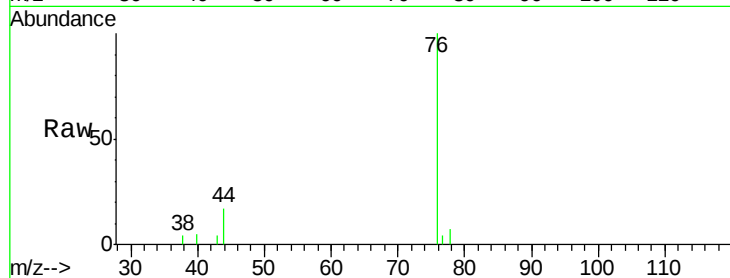
ClientSampleId :

Tot Ion: 76 Resp: 20050

Ion Ratio Lower Upper

76 100

78 7.3 7.4 11.2#



#18

Methyl Acetate

Concen: 1.658 ug/l

RT: 3.64 min Scan# 225

Delta R.T. 0.01 min

Lab File: VD061764.D

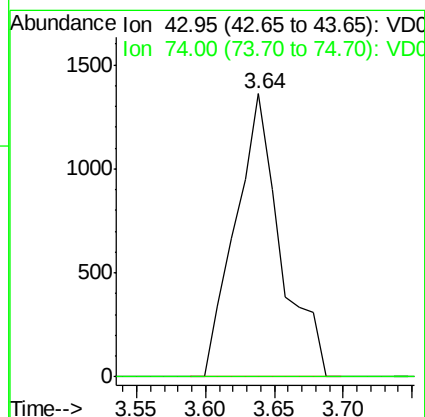
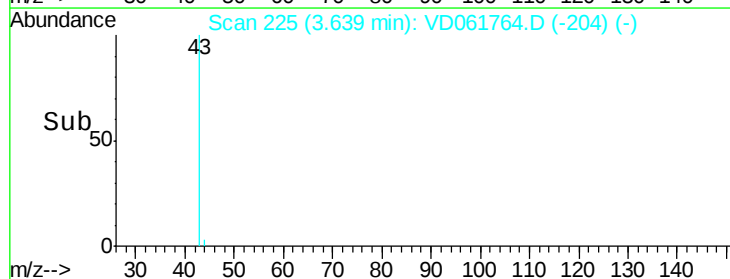
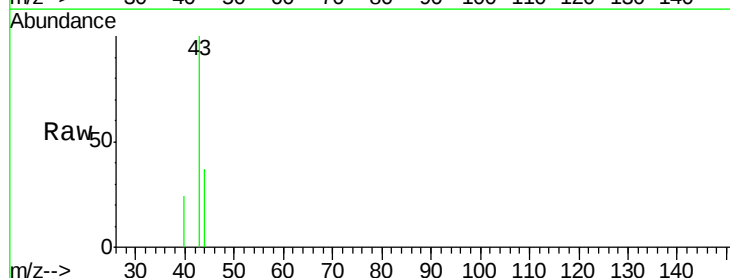
Acq: 12 Apr 2019 4:43

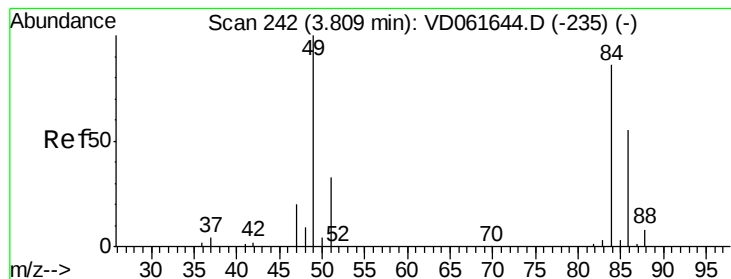
Tgt Ion: 43 Resp: 3098

Ion Ratio Lower Upper

43 100

74 0.0 18.2 27.2#





#20

Methvlene Chloride

Concen: 10.826 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD061764.D

Acq: 12 Apr 2019 4:43

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 84 Resp: 60999

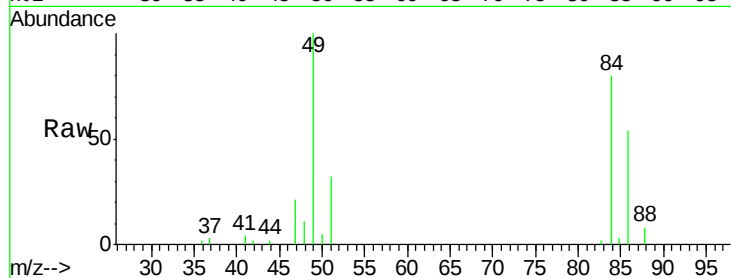
Ion Ratio Lower Upper

84 100

49 124.4 93.0 139.4

51 40.0 30.4 45.6

86 67.1 51.0 76.4

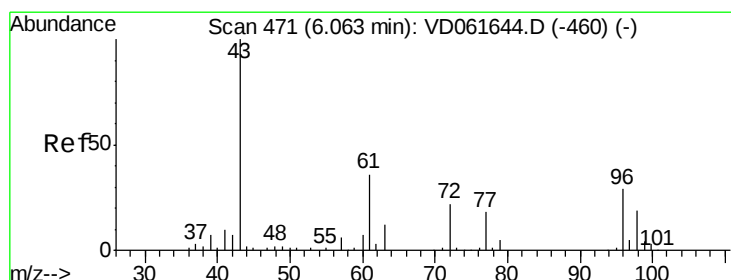
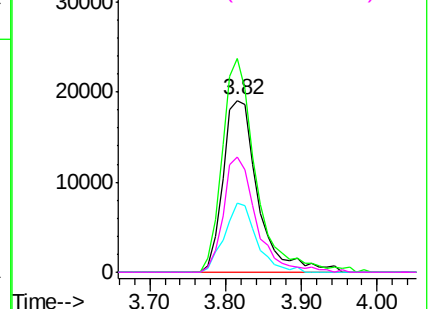
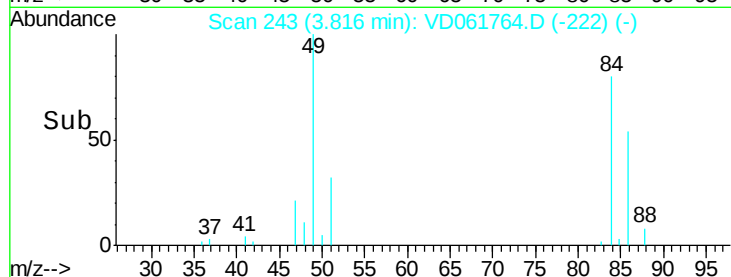


Abundance Ion 83.95 (83.65 to 84.65): VDC

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



#25

2-Butanone

Concen: 24.046 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.00 min

Lab File: VD061764.D

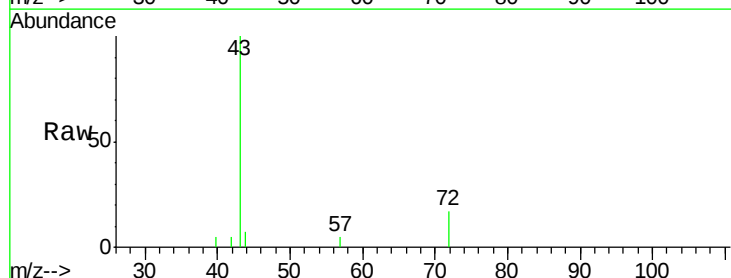
Acq: 12 Apr 2019 4:43

Tgt Ion: 43 Resp: 27525

Ion Ratio Lower Upper

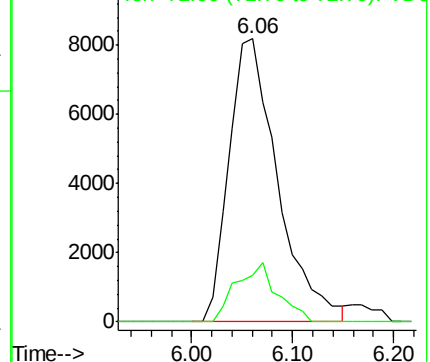
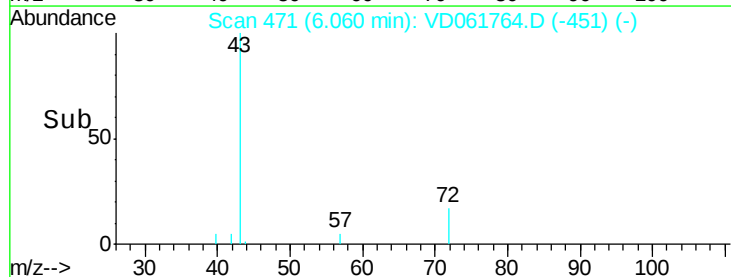
43 100

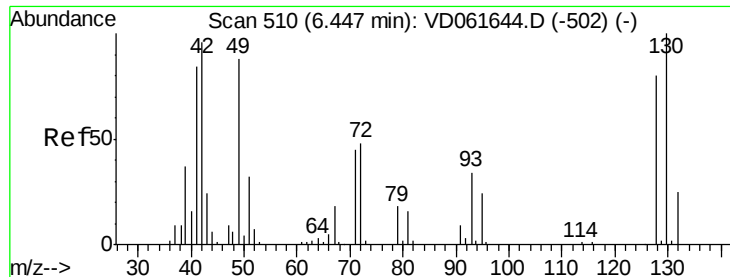
72 16.6 17.4 26.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

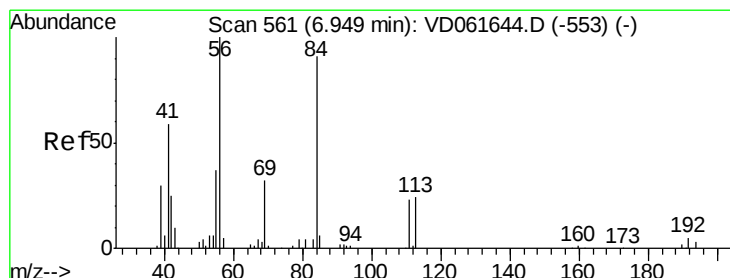
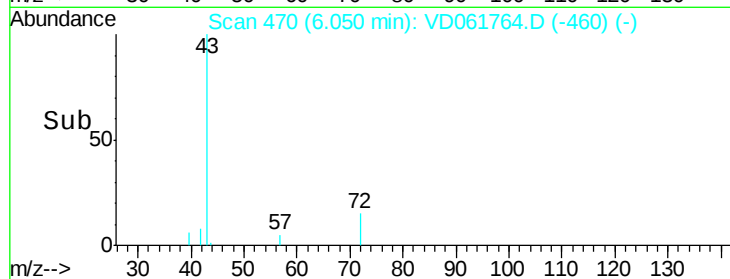
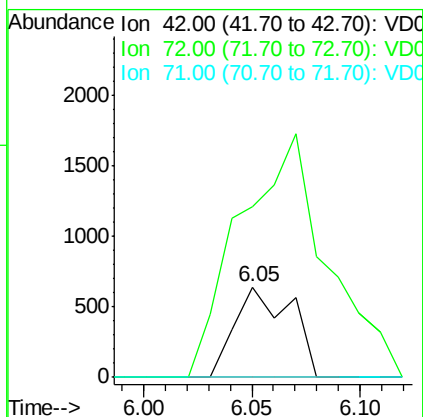
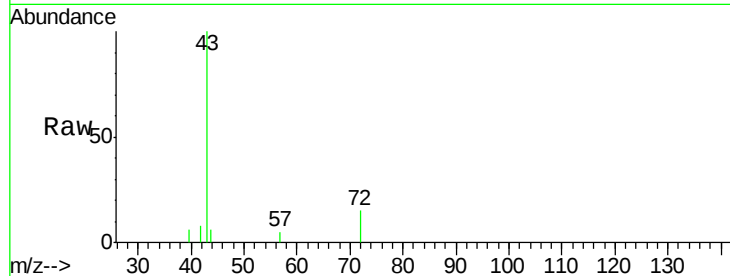




#29
Tetrahydrofuran
Concen: 2.108 ug/l
RT: 6.05 min Scan# 470
Delta R.T. -0.40 min
Lab File: VD061764.D
Acq: 12 Apr 2019 4:43

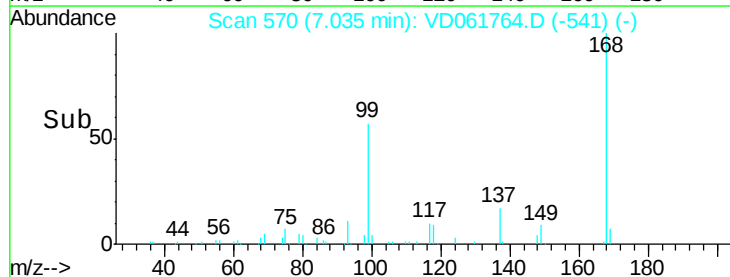
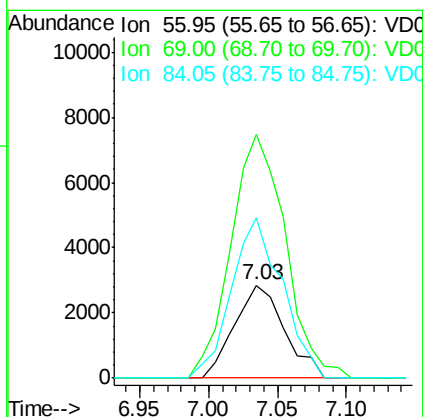
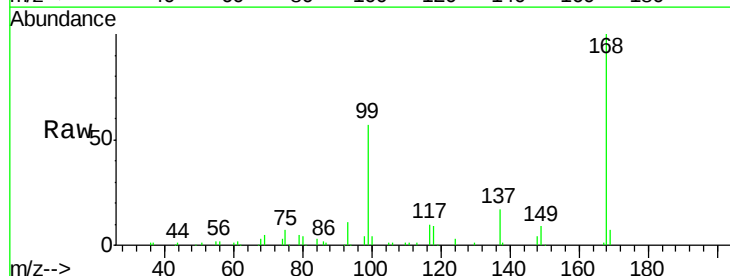
Instrument :
MSVOA_D
ClientSampleId :

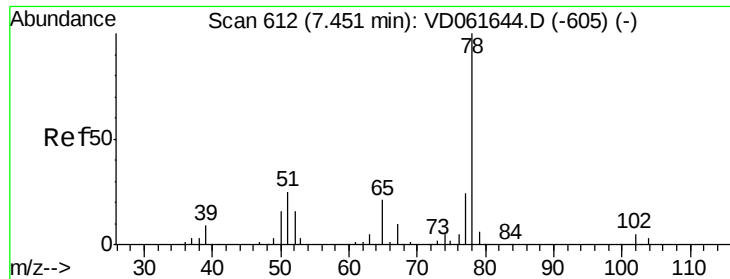
Tot Ion: 42 Resp: 1165
Ion Ratio Lower Upper
42 100
72 416.7 37.0 55.6#
71 0.0 36.5 54.7#



#31
Cyclohexane
Concen: 1.153 ug/l
RT: 7.03 min Scan# 570
Delta R.T. 0.09 min
Lab File: VD061764.D
Acq: 12 Apr 2019 4:43

Tgt Ion: 56 Resp: 7208
Ion Ratio Lower Upper
56 100
69 262.7 25.8 38.6#
84 173.6 74.2 111.2#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.00 min

Lab File: VD061764.D

Acq: 12 Apr 2019 4:43

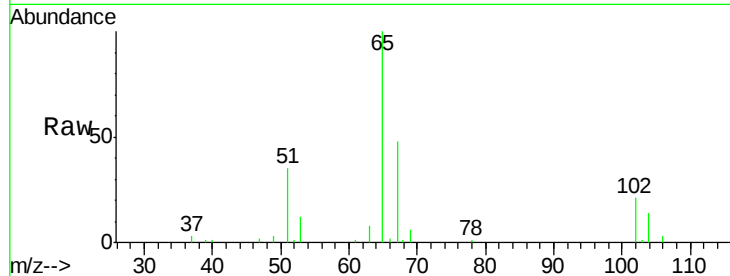
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 65 Resp: 195446

Ion Ratio Lower Upper

65 100

67 48.0 0.0 99.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

80000

60000

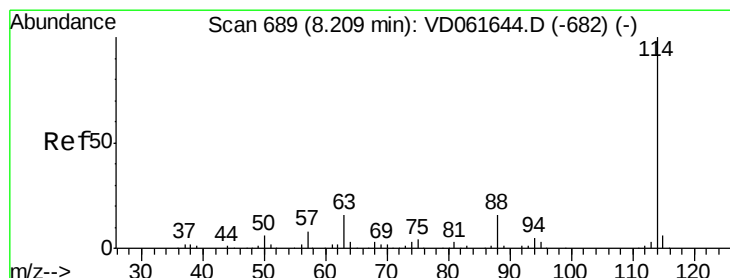
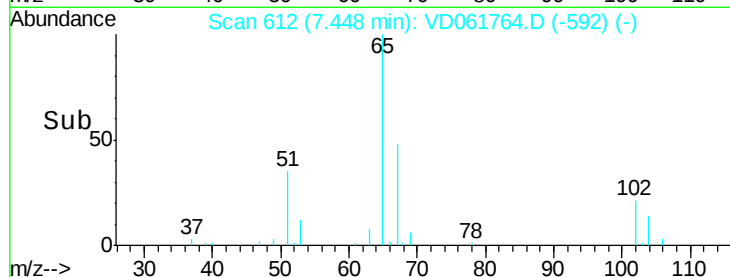
40000

20000

0

Time-->

7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.00 min

Lab File: VD061764.D

Acq: 12 Apr 2019 4:43

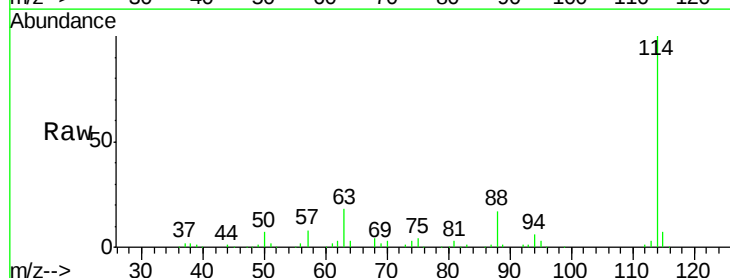
Tgt Ion: 114 Resp: 737883

Ion Ratio Lower Upper

114 100

63 17.7 0.0 31.2

88 17.0 0.0 31.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.21

300000

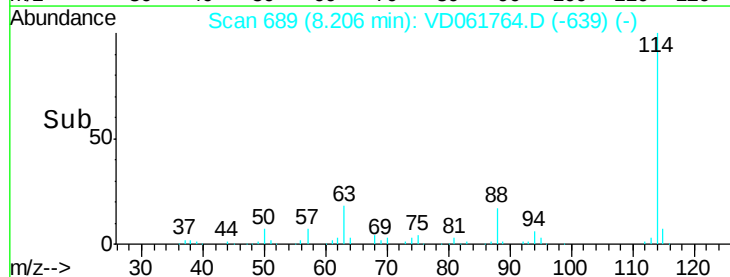
200000

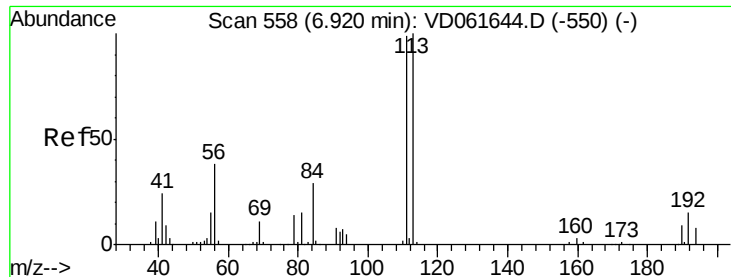
100000

0

Time-->

8.00 8.20 8.40 8.60

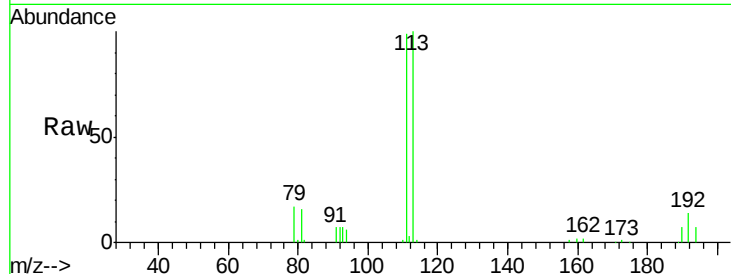




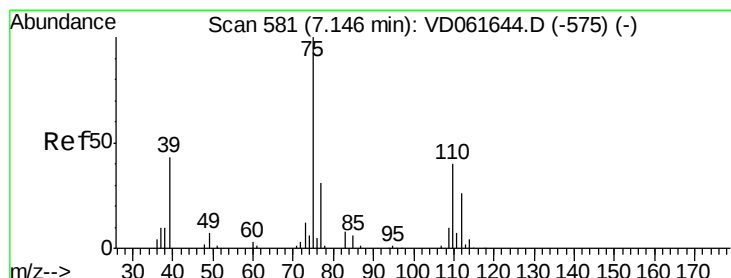
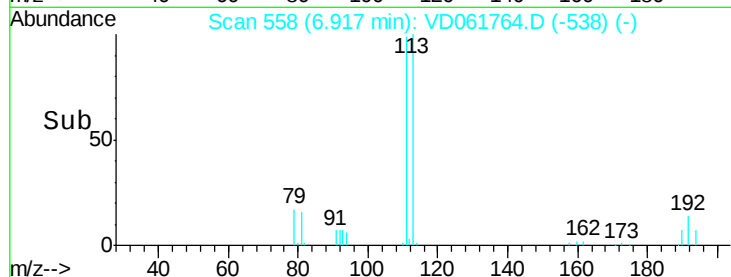
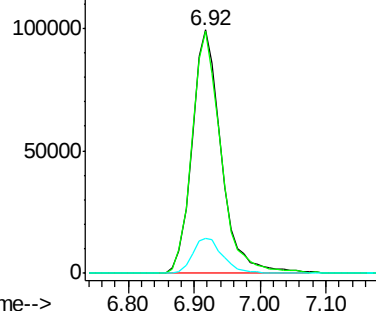
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.00 min
 Lab File: VD061764.D
 Acq: 12 Apr 2019 4:43

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 306561
 Ion Ratio Lower Upper
 113 100
 111 99.3 79.3 118.9
 192 14.3 12.3 18.5

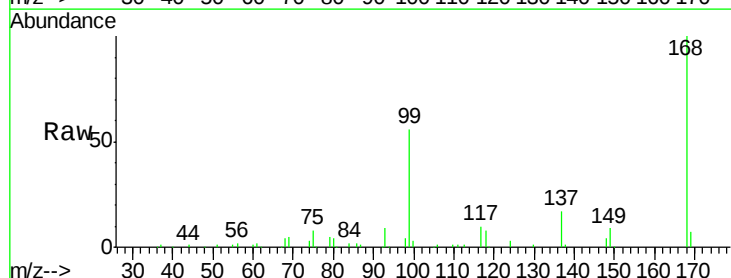


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

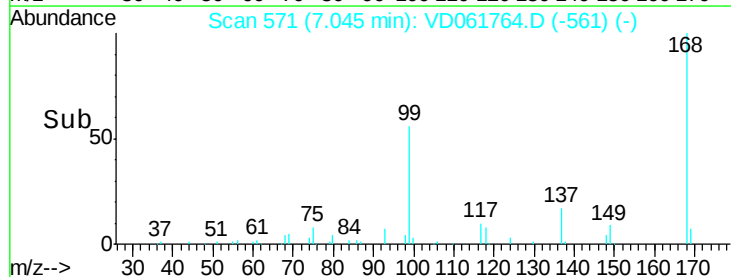
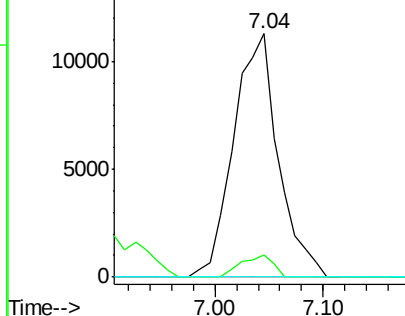


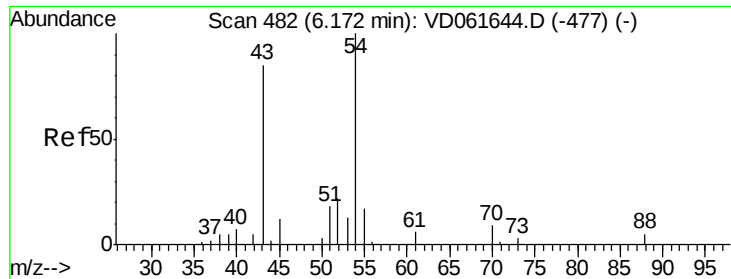
#36
 1,1-Dichloropropene
 Concen: 5.020 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.10 min
 Lab File: VD061764.D
 Acq: 12 Apr 2019 4:43

Tgt Ion: 75 Resp: 32417
 Ion Ratio Lower Upper
 75 100
 110 9.1 19.7 59.0#
 77 0.0 24.8 37.2#



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

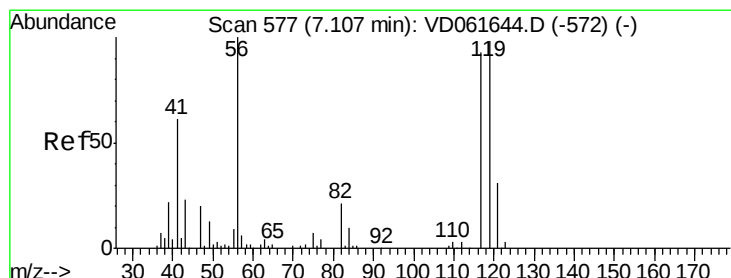
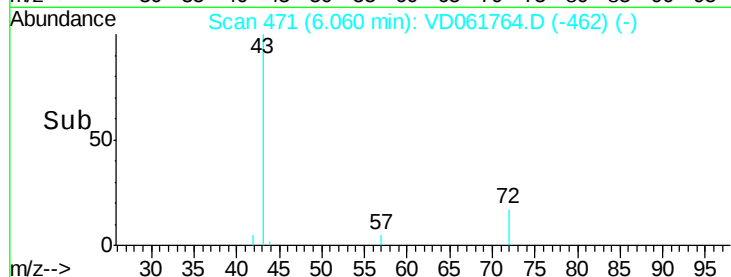
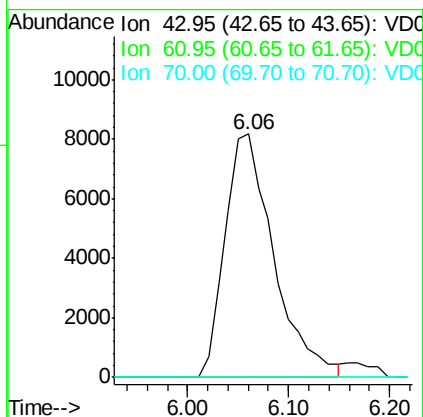
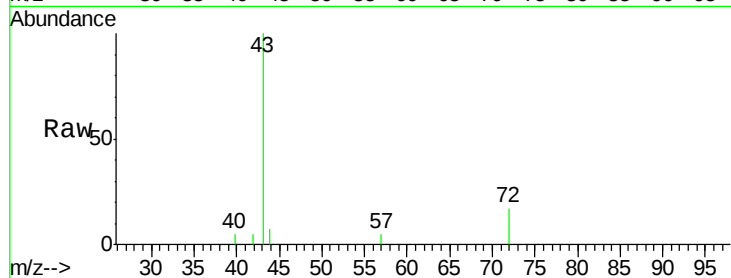




#37
Ethyl Acetate
Concen: 10.464 ug/l
RT: 6.06 min Scan# 471
Delta R.T. -0.11 min
Lab File: VD061764.D
Acq: 12 Apr 2019 4:43

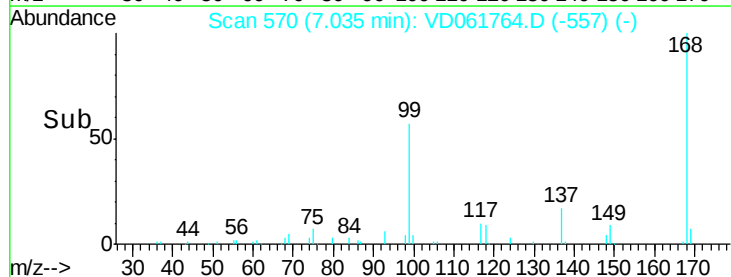
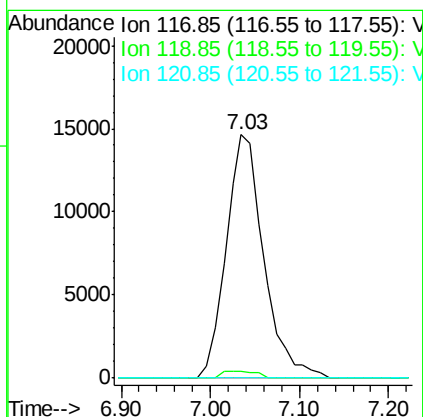
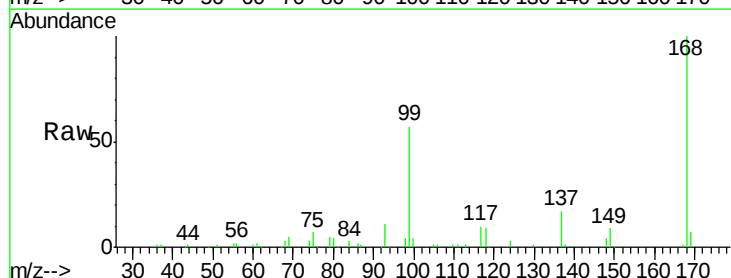
Instrument :
MSVOA_D
ClientSampled :

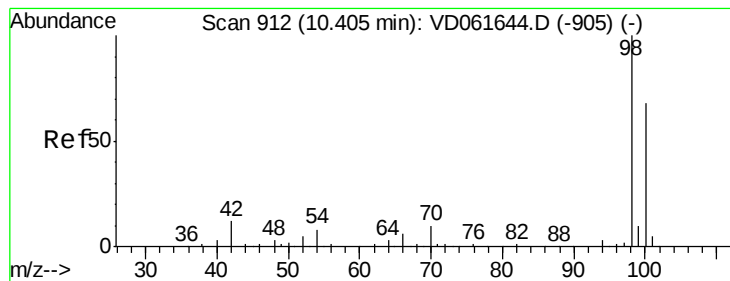
Tot Ion: 43 Resp: 27525
Ion Ratio Lower Upper
43 100
61 0.0 11.9 17.9#
70 0.0 6.9 10.3#



#38
Carbon Tetrachloride
Concen: 5.679 ug/l
RT: 7.03 min Scan# 570
Delta R.T. -0.07 min
Lab File: VD061764.D
Acq: 12 Apr 2019 4:43

Tgt Ion: 117 Resp: 42979
Ion Ratio Lower Upper
117 100
119 2.7 77.9 116.9#
121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.00 min

Lab File: VD061764.D

Acq: 12 Apr 2019 4:43

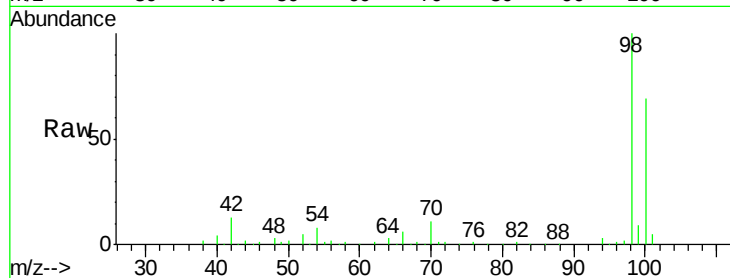
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 675217

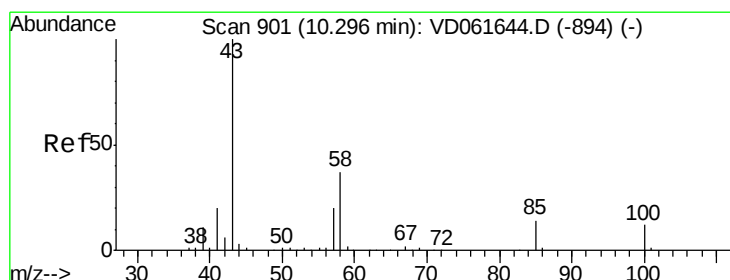
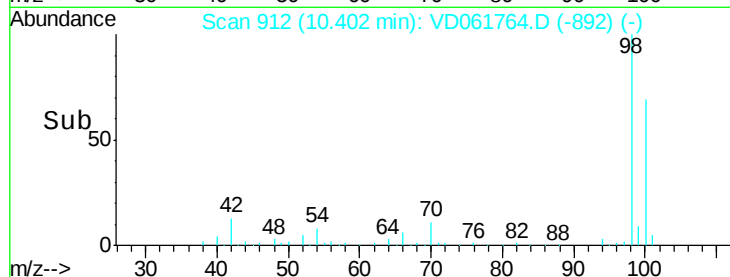
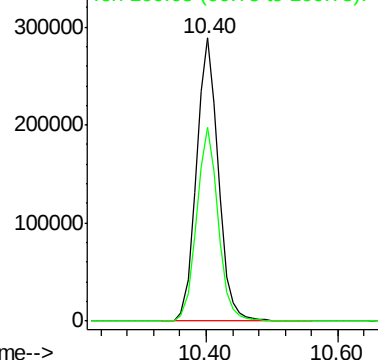
Ion Ratio Lower Upper

98 100

100 68.6 55.4 83.0



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



#51

4-Methyl-2-Pentanone

Concen: 1.244 ug/l

RT: 10.39 min Scan# 911

Delta R.T. 0.10 min

Lab File: VD061764.D

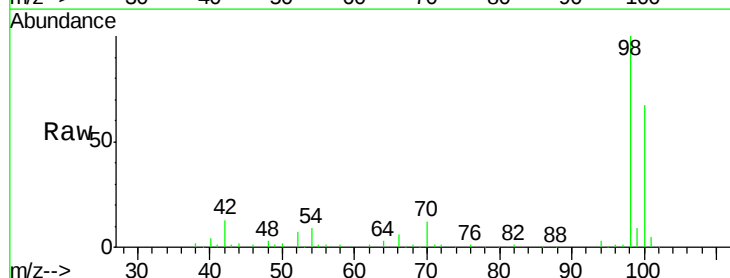
Acq: 12 Apr 2019 4:43

Tgt Ion: 43 Resp: 2809

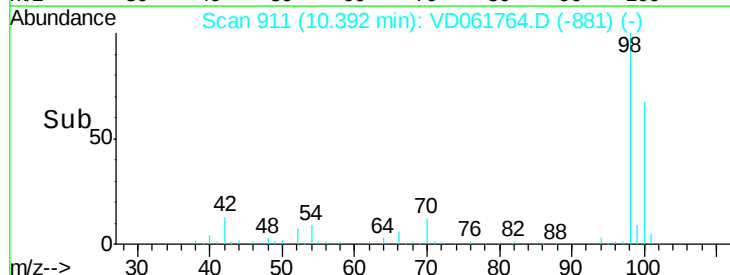
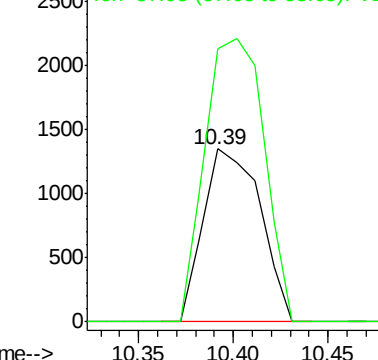
Ion Ratio Lower Upper

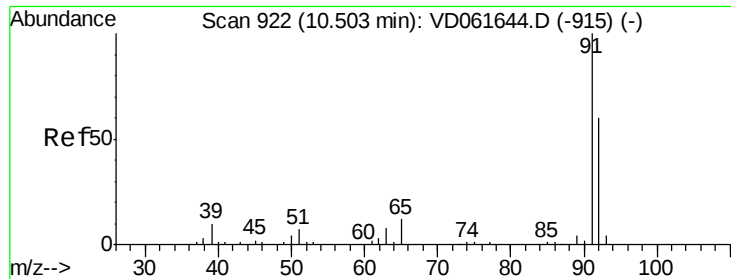
43 100

58 158.1 29.8 44.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#52

Toluene

Concen: 1.175 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.00 min

Lab File: VD061764.D

Acq: 12 Apr 2019 4:43

Instrument :

MSVOA_D

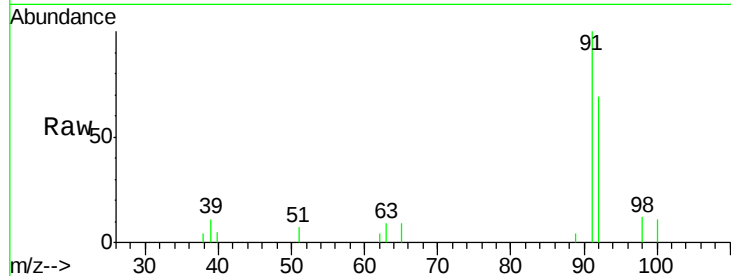
ClientSampleId :

Tot Ion: 92 Resp: 11431

Ion Ratio Lower Upper

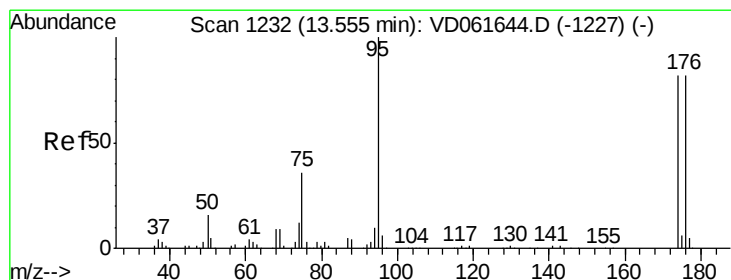
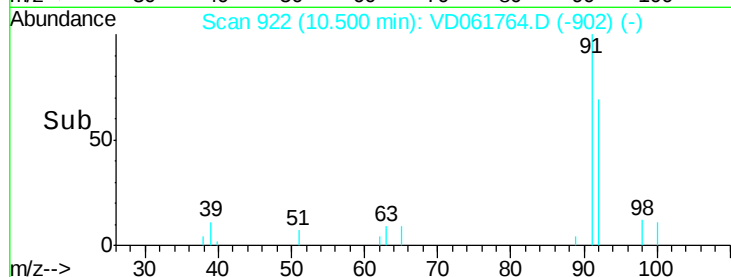
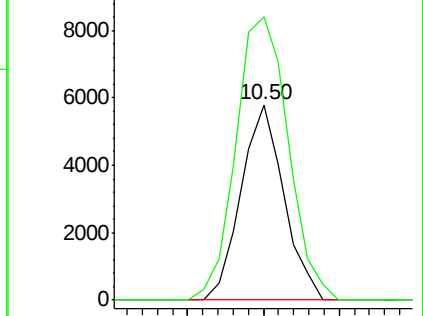
92 100

91 145.0 133.0 199.4



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. -0.00 min

Lab File: VD061764.D

Acq: 12 Apr 2019 4:43

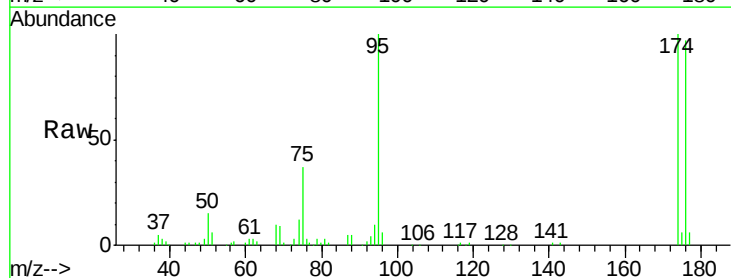
Tgt Ion: 95 Resp: 200247

Ion Ratio Lower Upper

95 100

174 100.0 0.0 164.6

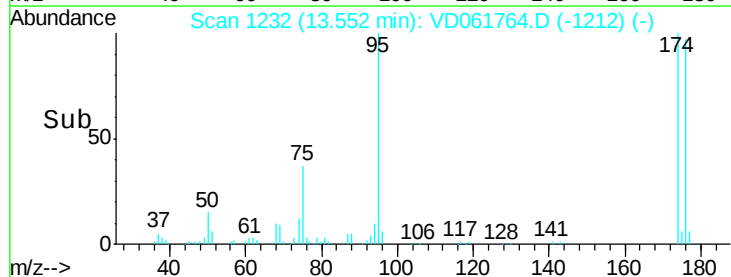
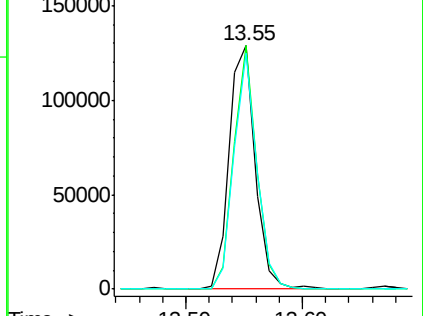
176 96.6 0.0 165.0

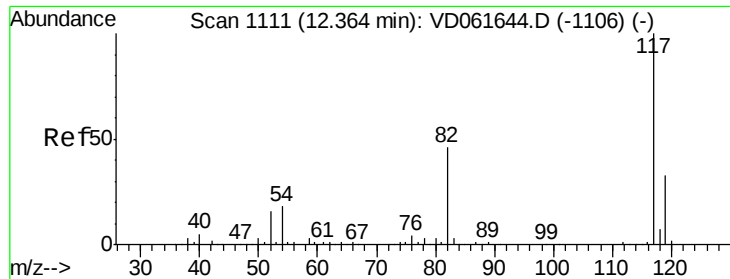


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

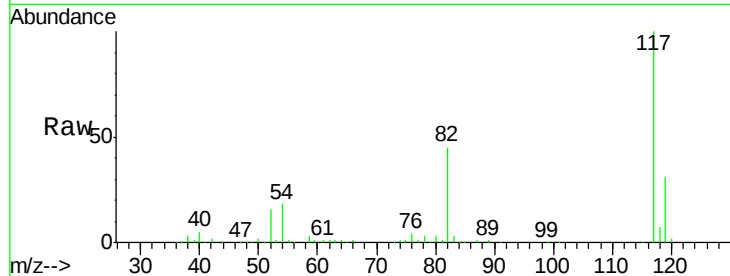




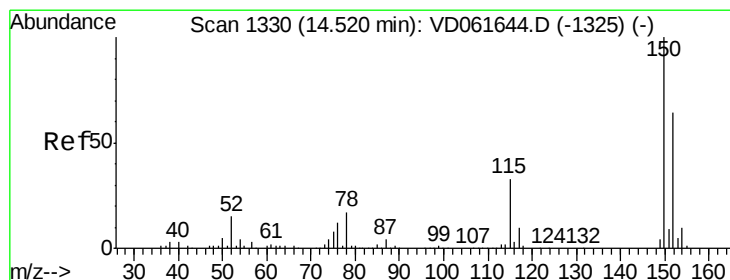
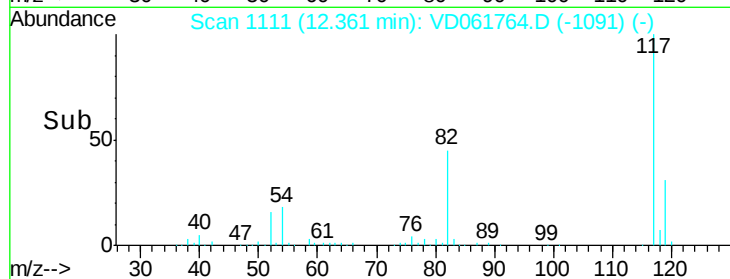
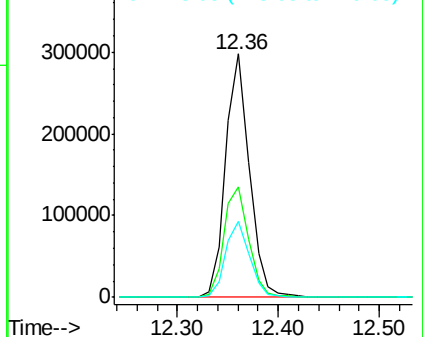
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD061764.D
Acq: 12 Apr 2019 4:43

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 487419
Ion Ratio Lower Upper
117 100
82 45.4 36.8 55.2
119 31.2 26.1 39.1

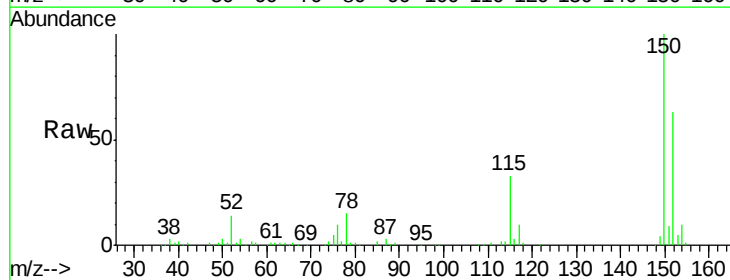


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

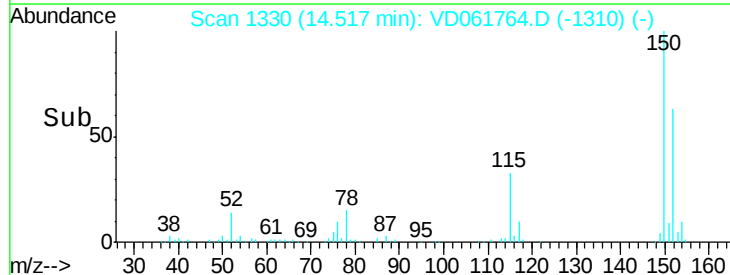
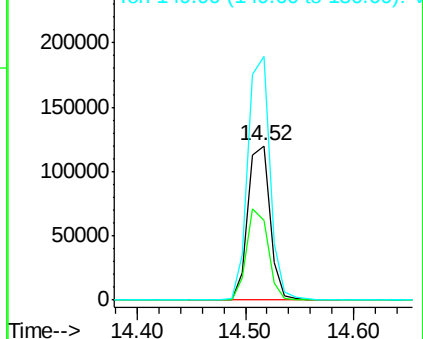


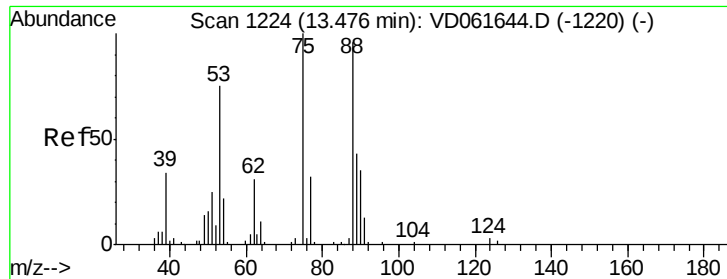
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD061764.D
Acq: 12 Apr 2019 4:43

Tgt Ion:152 Resp: 171492
Ion Ratio Lower Upper
152 100
115 51.7 26.4 79.2
150 158.0 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





#81

trans-1,4-Dichloro-2-butene

Concen: 104.076 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061764.D

Acq: 12 Apr 2019 4:43

Instrument :

MSVOA_D

ClientSampleId :

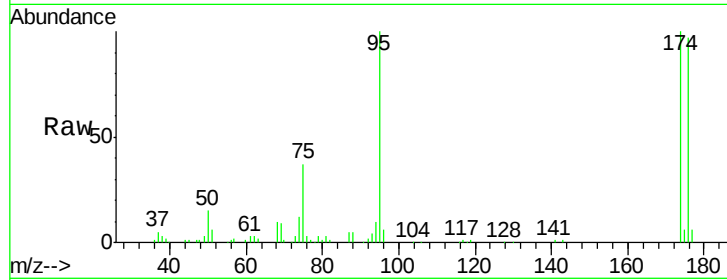
Tot Ion: 75 Resp: 73686

Ion Ratio Lower Upper

75 100

53 0.0 60.2 90.2#

89 0.0 34.2 51.2#



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

