

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\
 Data File : VD058046.D
 Acq On : 9 Jun 2018 6:23
 Operator : VA/AP
 Sample : J3353-01
 Misc : 5.50µl/5ml/MSVOA D/SOIL
 ALS Vial : 65 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 11 04:06:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

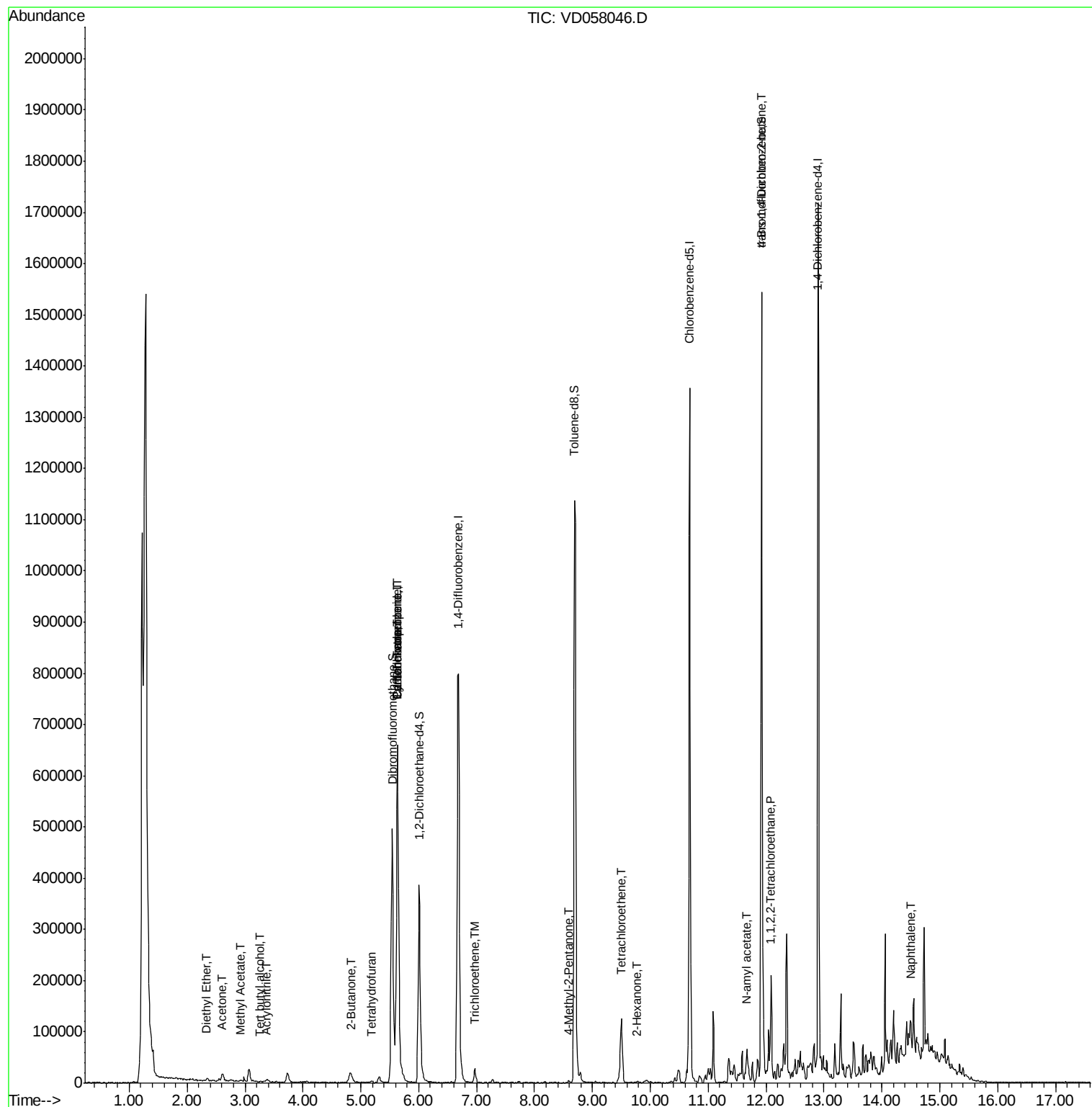
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	641119	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	6.69	114	845981	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	709317	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	360633	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.01	65	377899	58.96	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	117.92%	
35) Dibromofluoromethane	5.54	113	395235	60.38	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	120.76%	
50) Toluene-d8	8.70	98	924314	59.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	118.80%	
62) 4-Bromofluorobenzene	11.92	95	382313	56.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.64%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.34	74	1815	1.742	ug/l	99
11) Tert butyl alcohol	3.26	59	513	2.988	ug/l #	74
15) Acrylonitrile	3.36	53	1143	1.138	ug/l #	74
16) Acetone	2.61	43	32534	35.231	ug/l	95
18) Methyl Acetate	2.92	43	3134	1.754	ug/l #	66
20) Methylene Chloride	3.07	84	11906	Below Cal		86
25) 2-Butanone	4.84	43	4435	2.113	ug/l #	64
29) Tetrahydrofuran	5.18	42	2942	2.674	ug/l #	58
31) Cyclohexane	5.63	56	22025	1.976	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	57638	6.184	ug/l #	52
38) Carbon Tetrachloride	5.64	117	54954	5.983	ug/l #	16
44) Trichloroethene	6.98	130	10777	1.695	ug/l	81
51) 4-Methyl-2-Pentanone	8.59	43	4470	1.046	ug/l #	86
59) 2-Hexanone	9.78	43	5196	1.659	ug/l	84
64) Tetrachloroethene	9.50	164	35725	5.634	ug/l	96
74) N-amyl acetate	11.66	43	11869	1.288	ug/l #	10
75) 1,1,2,2-Tetrachloroethane	12.07	83	5752	1.104	ug/l #	82
81) trans-1,4-Dichloro-2-buten	11.92	75	186469	138.973	ug/l #	6
82) 4-Chlorotoluene	12.32	91	7819	Below Cal		97
89) n-Butylbenzene	13.19	91	8046	Below Cal		97
95) Naphthalene	14.51	128	16125	1.385	ug/l	98

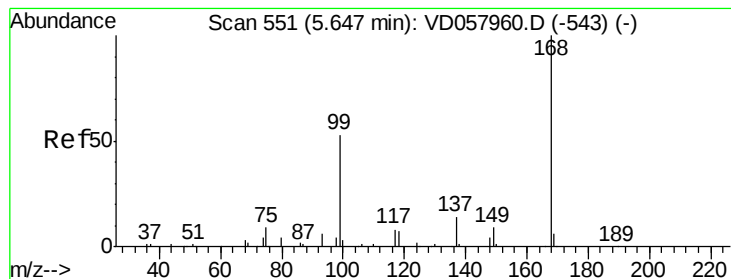
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 07 08:57:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.02 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

Instrument :

MSVOA_D

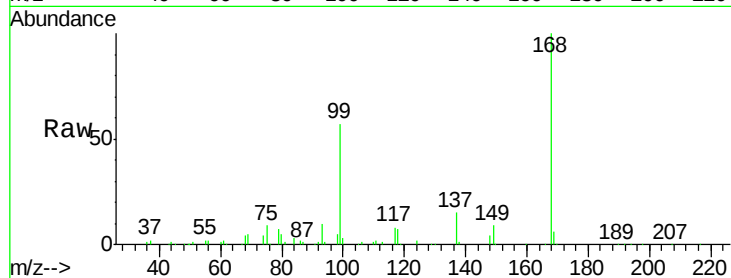
ClientSampleId :

Tot Ion:168 Resp: 641119

Ion Ratio Lower Upper

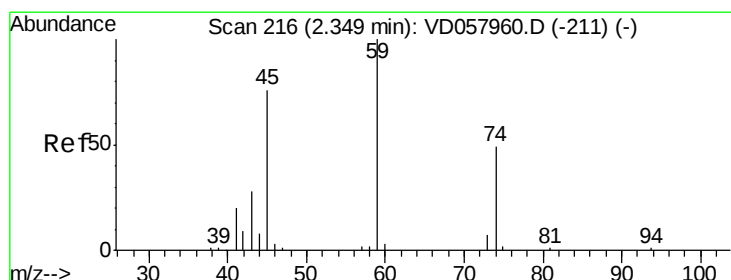
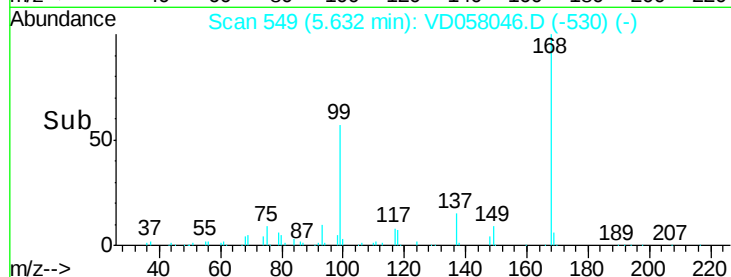
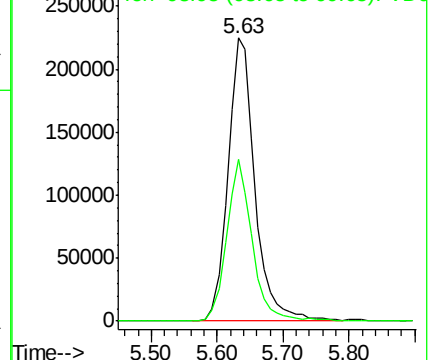
168 100

99 57.4 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: 1.742 ug/l

RT: 2.34 min Scan# 215

Delta R.T. -0.01 min

Lab File: VD058046.D

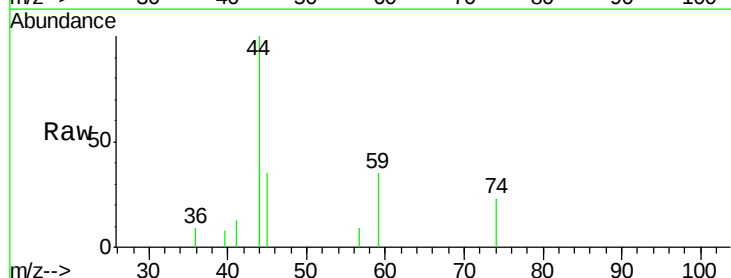
Acq: 9 Jun 2018 6:23

Tgt Ion: 74 Resp: 1815

Ion Ratio Lower Upper

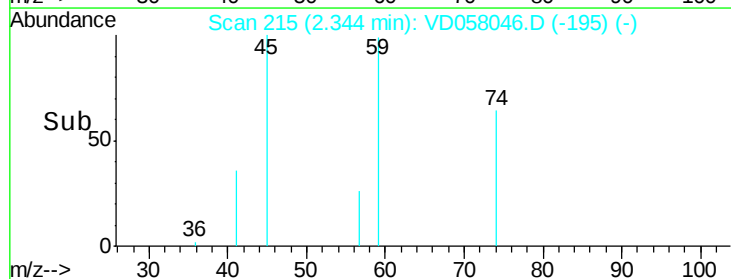
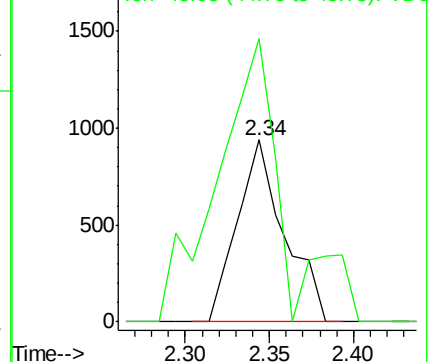
74 100

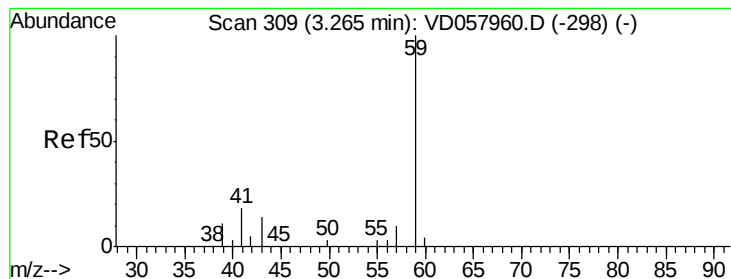
45 155.7 77.1 231.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



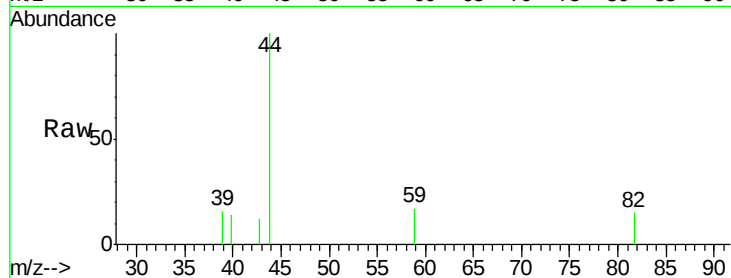


#11

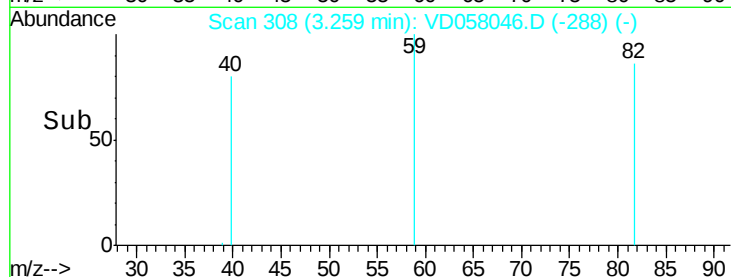
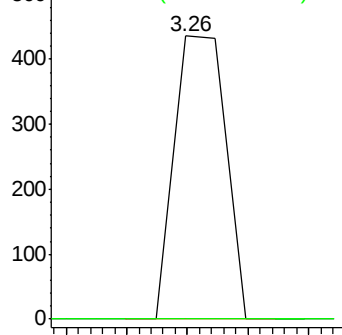
Tert butyl alcohol
 Concen: 2.988 ug/l
 RT: 3.26 min Scan# 308
 Delta R.T. -0.01 min
 Lab File: VD058046.D
 Acq: 9 Jun 2018 6:23

Instrument :
 MSVOA_D
 ClientSampleId :

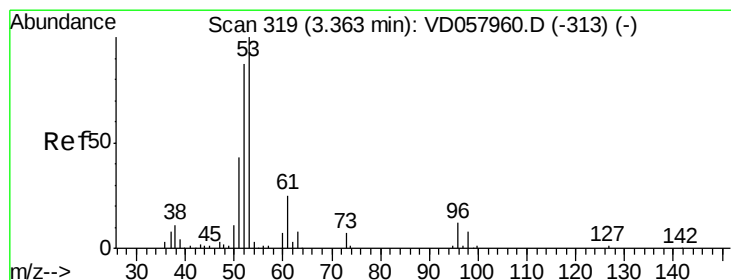
Tot Ion: 59 Resp: 513
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



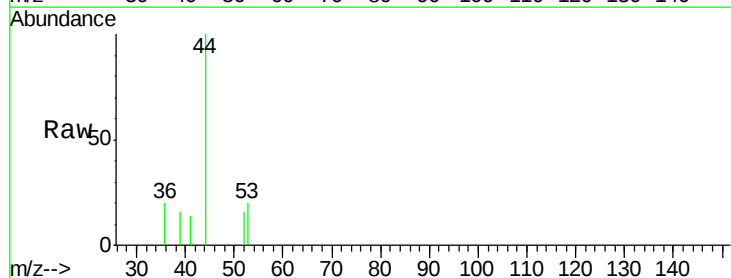
Time-->



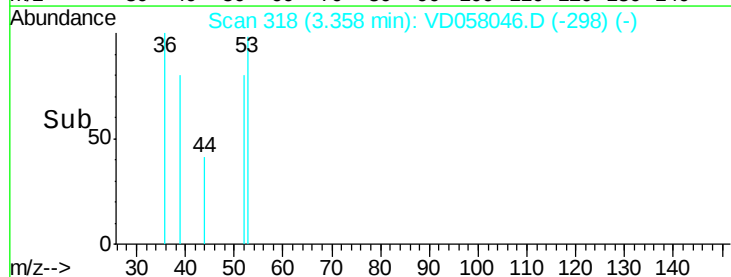
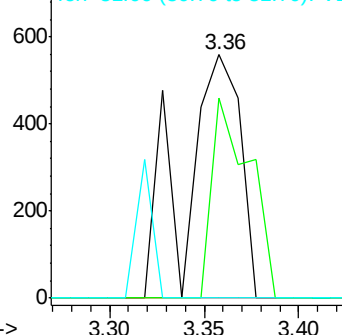
#15

Acrylonitrile
 Concen: 1.138 ug/l
 RT: 3.36 min Scan# 318
 Delta R.T. -0.01 min
 Lab File: VD058046.D
 Acq: 9 Jun 2018 6:23

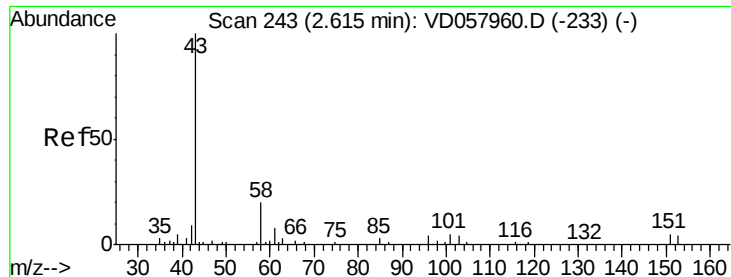
Tgt Ion: 53 Resp: 1143
 Ion Ratio Lower Upper
 53 100
 52 82.3 69.9 104.9
 51 0.0 34.3 51.5#



Abundance Ion 53.00 (52.70 to 53.70): VDC
 Ion 52.00 (51.70 to 52.70): VDC
 Ion 51.00 (50.70 to 51.70): VDC



Time-->



#16

Acetone

Concen: 35.231 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

Instrument :

MSVOA_D

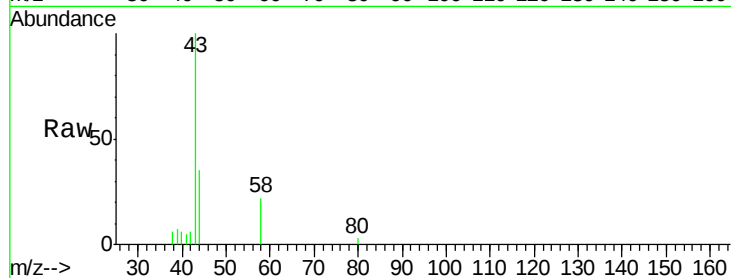
ClientSampleId :

Tot Ion: 43 Resp: 32534

Ion Ratio Lower Upper

43 100

58 22.2 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.61

10000

8000

6000

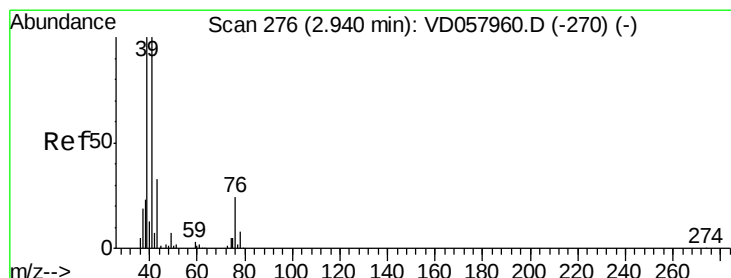
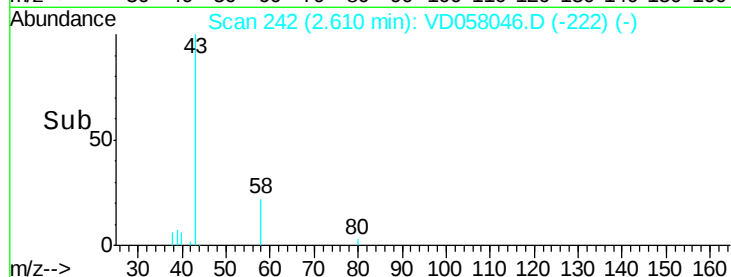
4000

2000

0

Time-->

2.50 2.60 2.70



#18

Methyl Acetate

Concen: 1.754 ug/l

RT: 2.92 min Scan# 274

Delta R.T. -0.02 min

Lab File: VD058046.D

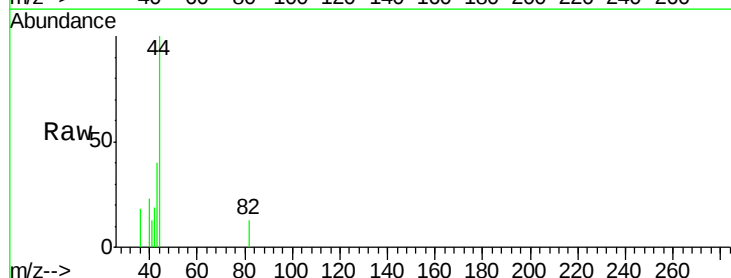
Acq: 9 Jun 2018 6:23

Tgt Ion: 43 Resp: 3134

Ion Ratio Lower Upper

43 100

74 0.0 11.2 16.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

2.92

1000

800

600

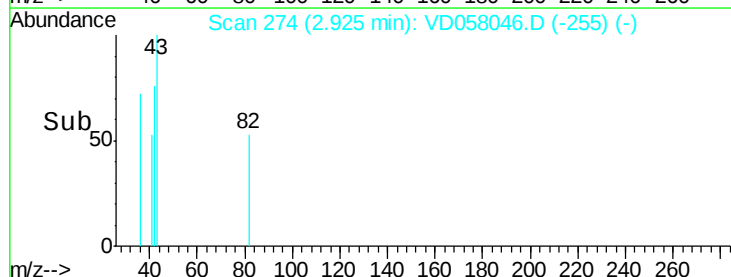
400

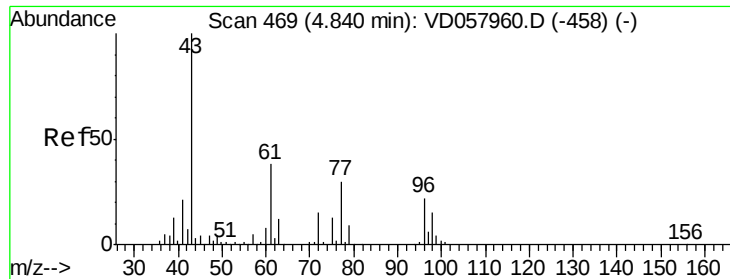
200

0

Time-->

2.85 2.90 2.95 3.00





#25

2-Butanone

Concen: 2.113 ug/l

RT: 4.84 min Scan# 469

Delta R.T. 0.00 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

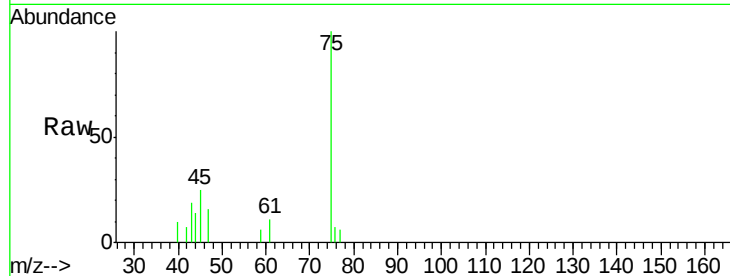
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 4435

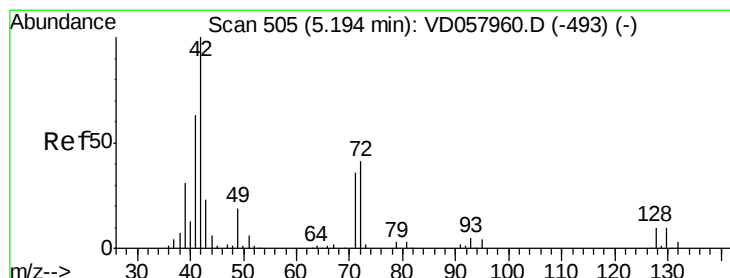
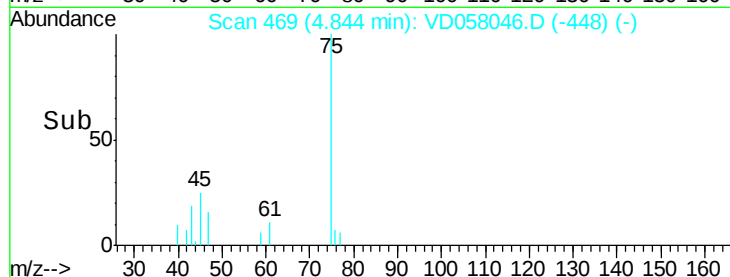
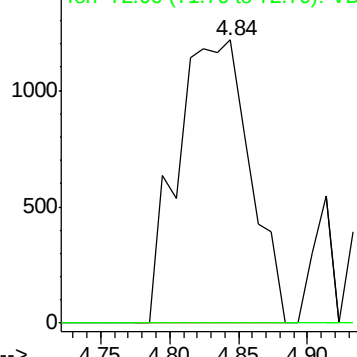
Ion Ratio Lower Upper

43 100

72 0.0 12.0 18.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 2.674 ug/l

RT: 5.18 min Scan# 503

Delta R.T. -0.02 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

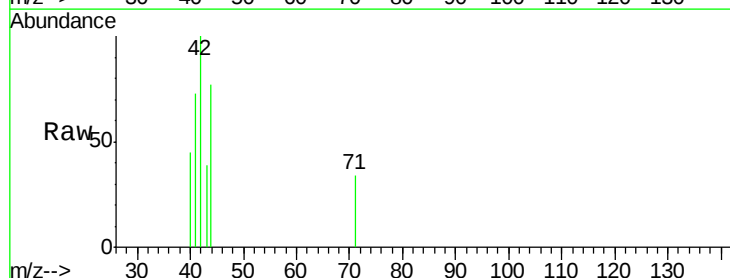
Tgt Ion: 42 Resp: 2942

Ion Ratio Lower Upper

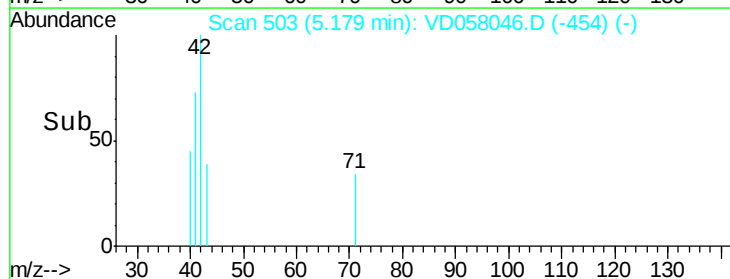
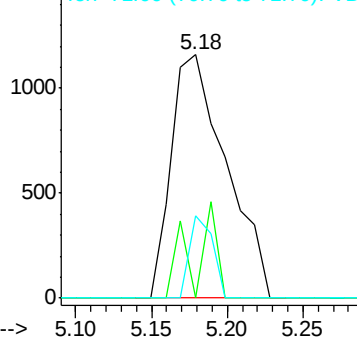
42 100

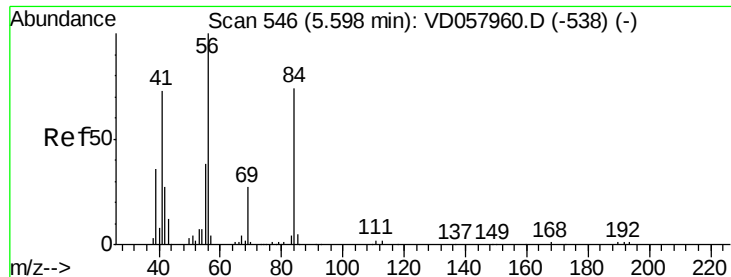
72 7.3 28.5 42.7#

71 14.1 27.9 41.9#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

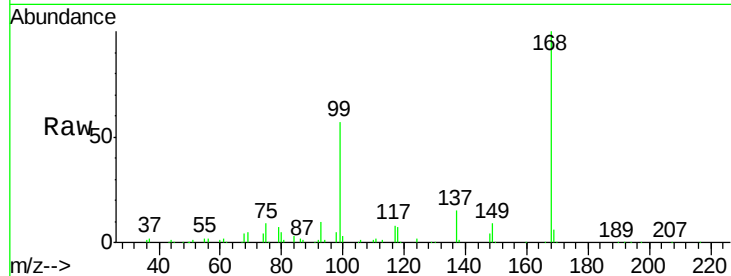




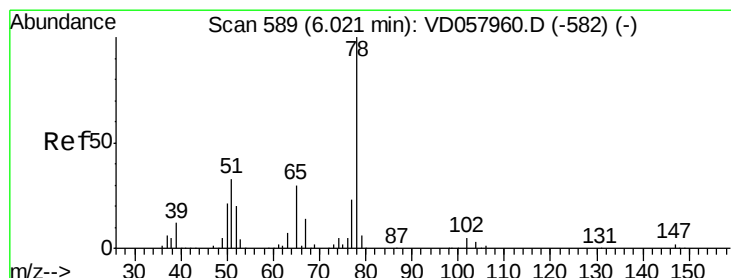
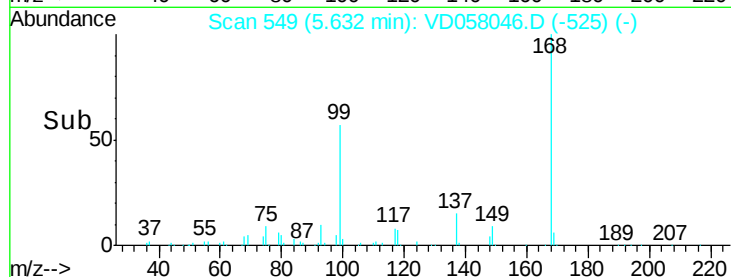
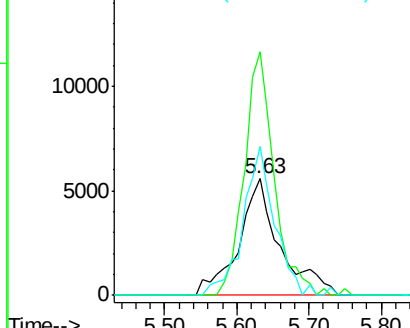
#31
Cyclohexane
Concen: 1.976 ug/l
RT: 5.63 min Scan# 549
Delta R.T. 0.03 min
Lab File: VD058046.D
Acq: 9 Jun 2018 6:23

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 22025
Ion Ratio Lower Upper
56 100
69 209.4 21.5 32.3#
84 128.5 61.0 91.6#

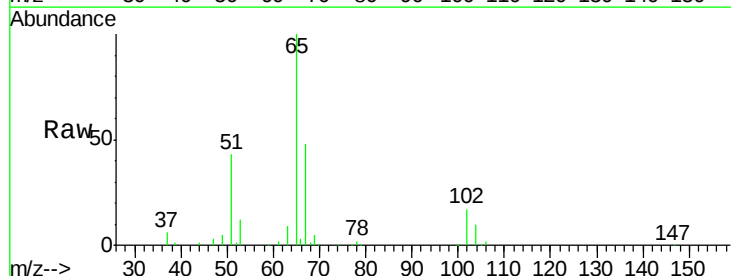


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

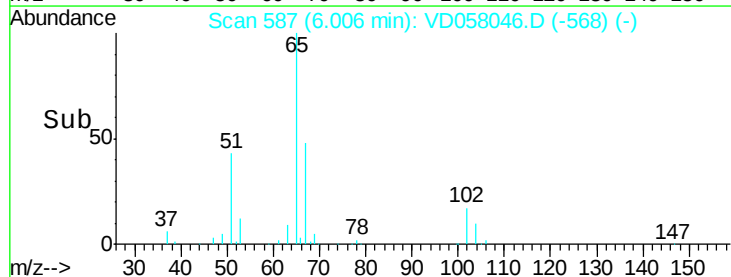
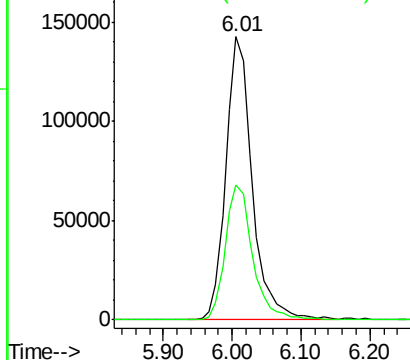


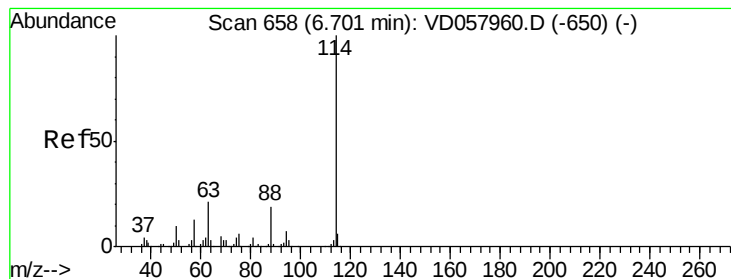
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.01 min Scan# 587
Delta R.T. -0.02 min
Lab File: VD058046.D
Acq: 9 Jun 2018 6:23

Tgt Ion: 65 Resp: 377899
Ion Ratio Lower Upper
65 100
67 47.6 0.0 94.0



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: 6.69 min Scan# 656

Delta R.T. -0.02 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

Instrument :
MSVOA_D
ClientSampleId :

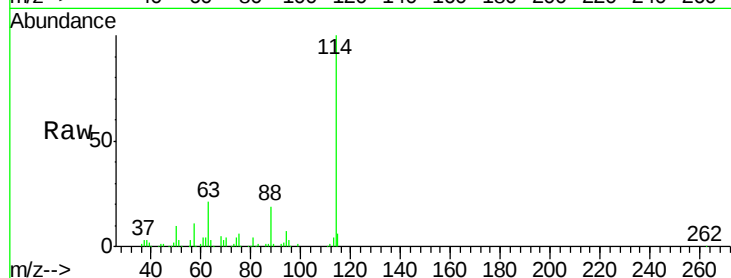
Tot Ion:114 Resp: 845981

Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.8

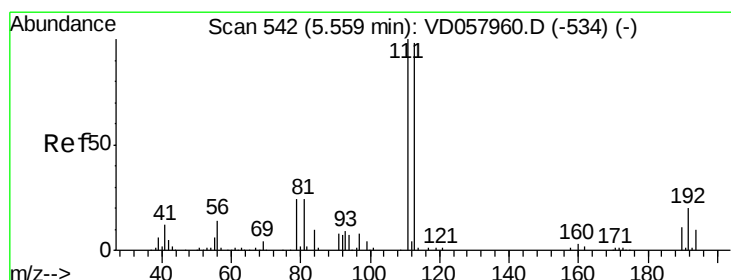
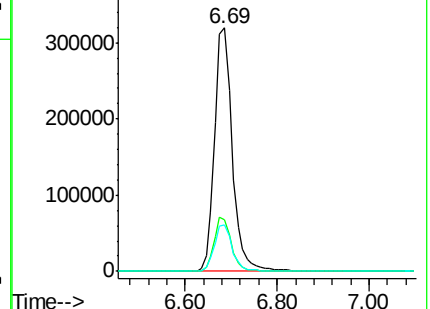
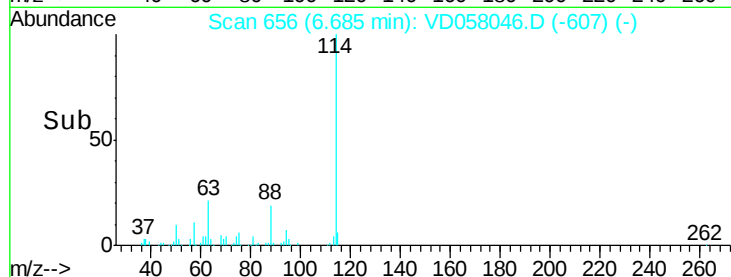
88 19.2 0.0 37.8



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: 5.54 min Scan# 540

Delta R.T. -0.02 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

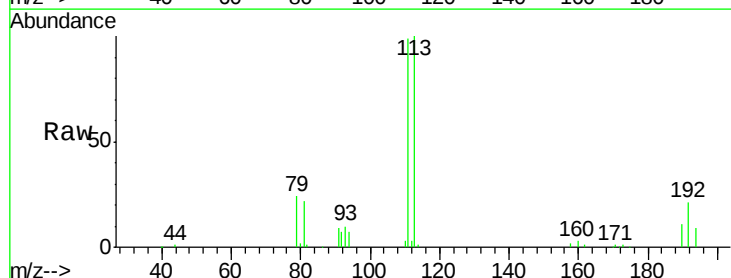
Tgt Ion:113 Resp: 395235

Ion Ratio Lower Upper

113 100

111 99.1 81.5 122.3

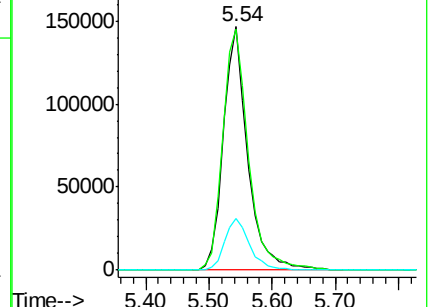
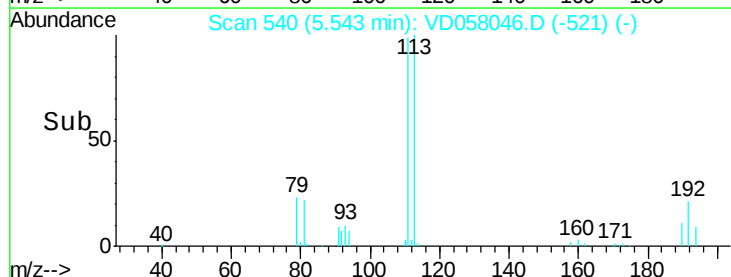
192 21.0 16.4 24.6

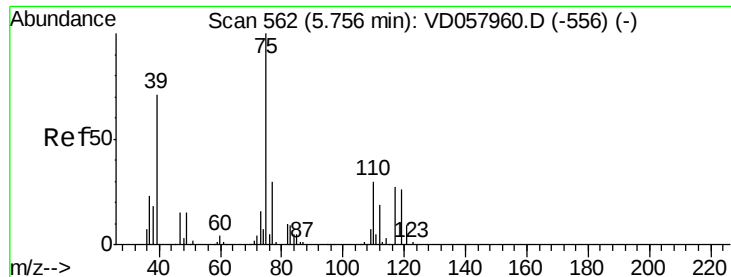


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.184 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.12 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

Instrument :
MSVOA_D
ClientSampleId :

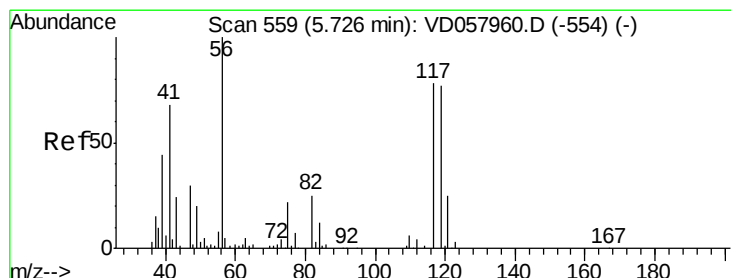
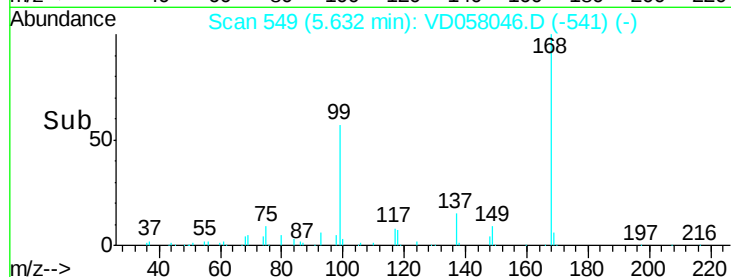
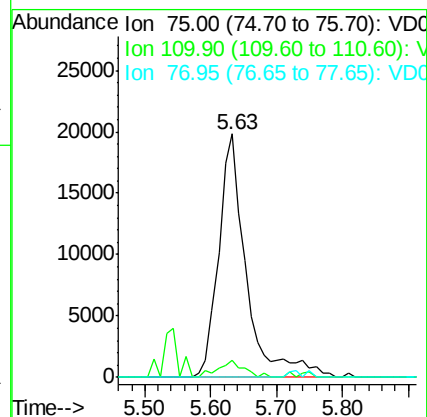
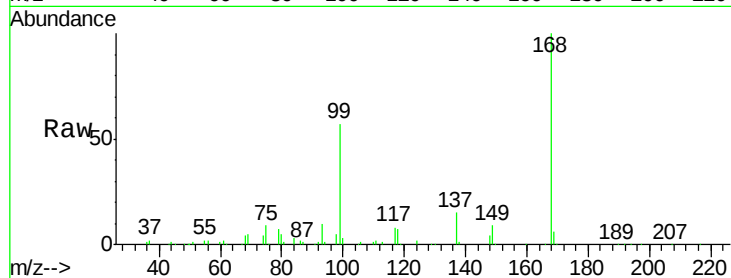
Tot Ion: 75 Resp: 57638

Ion Ratio Lower Upper

75 100

110 7.2 14.8 44.3#

77 0.0 23.9 35.9#



#38

Carbon Tetrachloride

Concen: 5.983 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.08 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

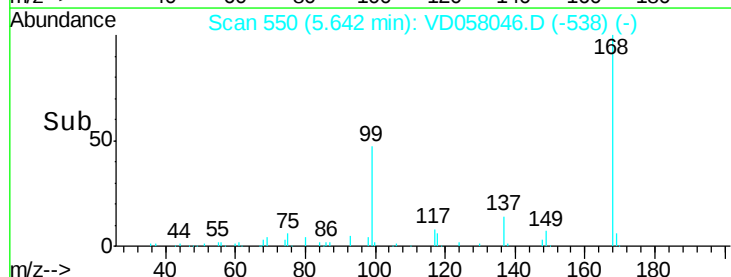
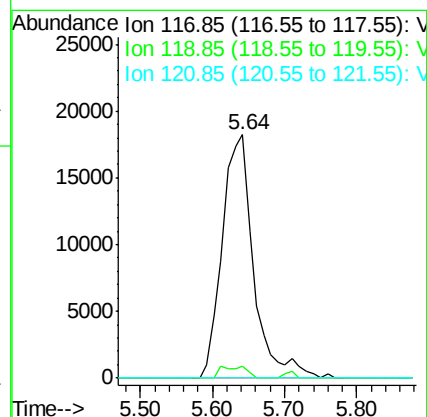
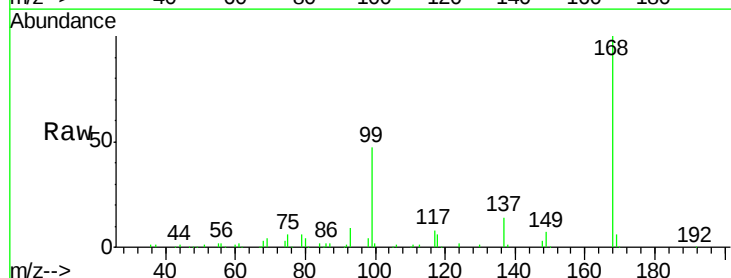
Tgt Ion: 117 Resp: 54954

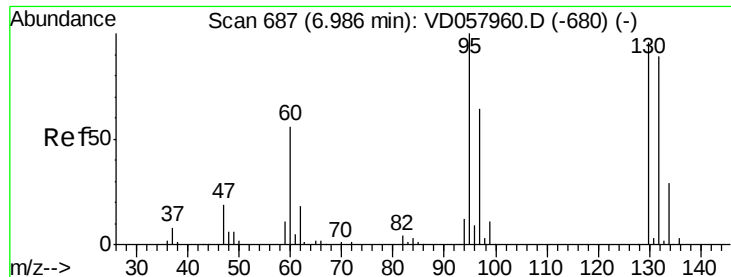
Ion Ratio Lower Upper

117 100

119 5.1 76.1 114.1#

121 0.0 24.9 37.3#





#44

Trichloroethene

Concen: 1.695 ug/l

RT: 6.98 min Scan# 686

Delta R.T. -0.01 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

Instrument :

MSVOA_D

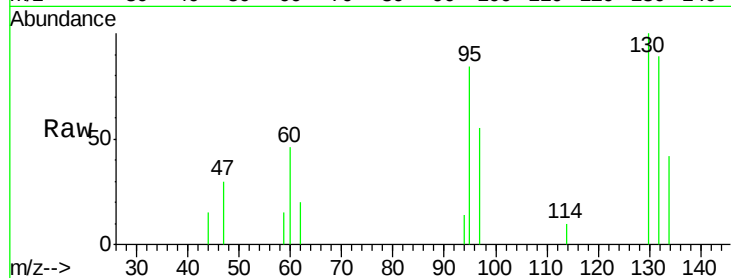
ClientSampleId :

Tot Ion:130 Resp: 10777

Ion Ratio Lower Upper

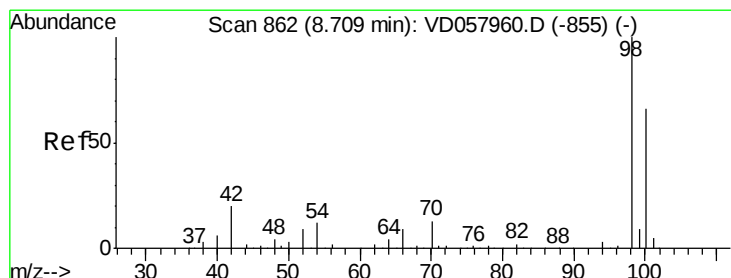
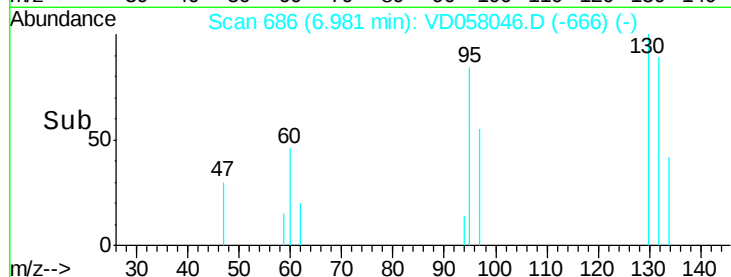
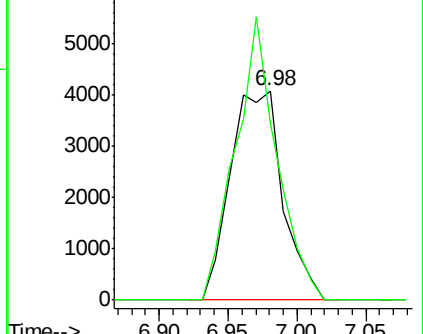
130 100

95 84.4 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD058046.D

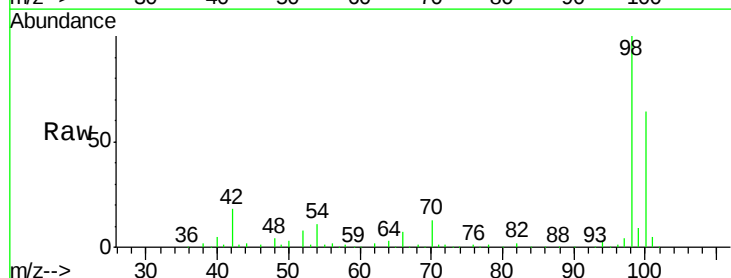
Acq: 9 Jun 2018 6:23

Tgt Ion: 98 Resp: 924314

Ion Ratio Lower Upper

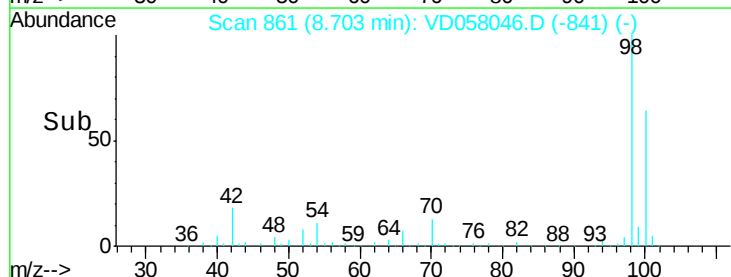
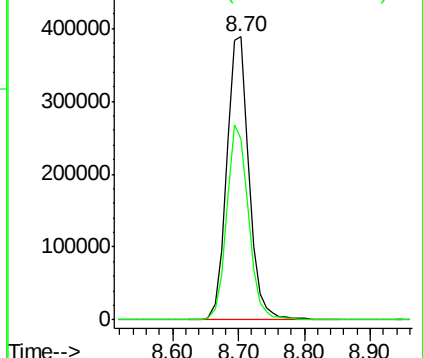
98 100

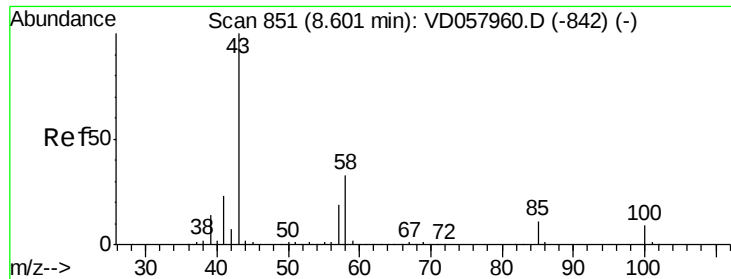
100 63.8 53.4 80.0



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: 1.046 ug/l

RT: 8.59 min Scan# 849

Delta R.T. -0.02 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

Instrument :

MSVOA_D

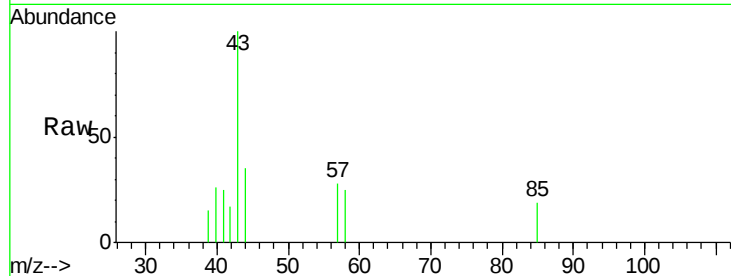
ClientSampleId :

Tot Ion: 43 Resp: 4470

Ion Ratio Lower Upper

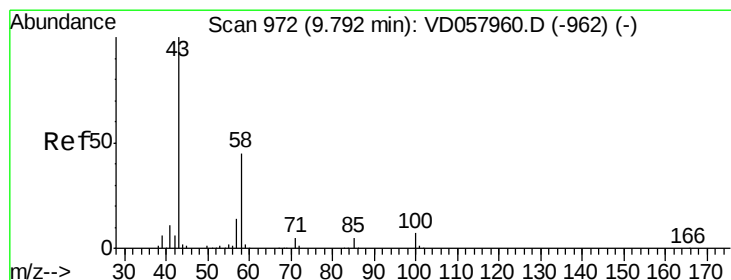
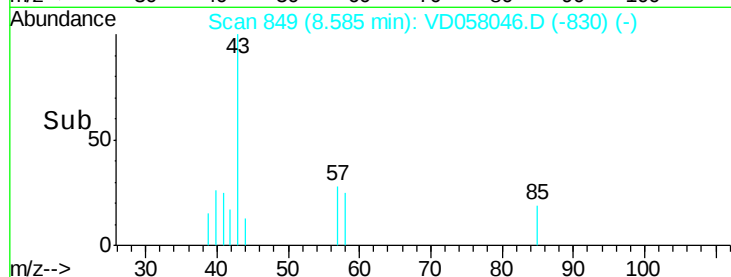
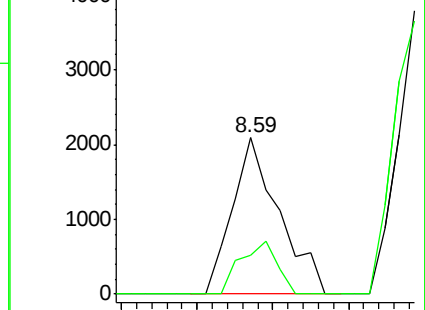
43 100

58 24.7 26.2 39.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#59

2-Hexanone

Concen: 1.659 ug/l

RT: 9.78 min Scan# 970

Delta R.T. -0.02 min

Lab File: VD058046.D

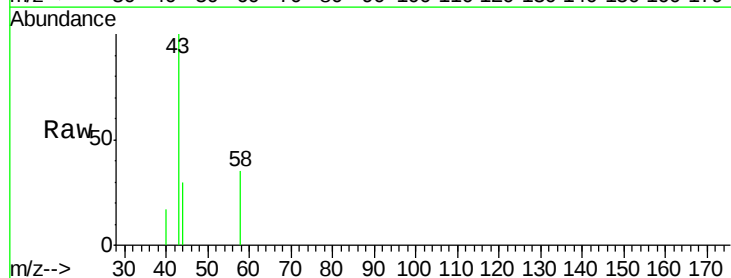
Acq: 9 Jun 2018 6:23

Tgt Ion: 43 Resp: 5196

Ion Ratio Lower Upper

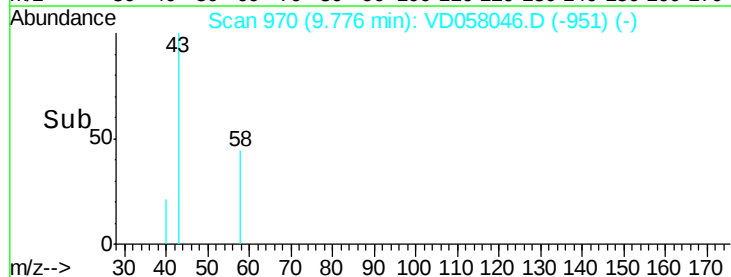
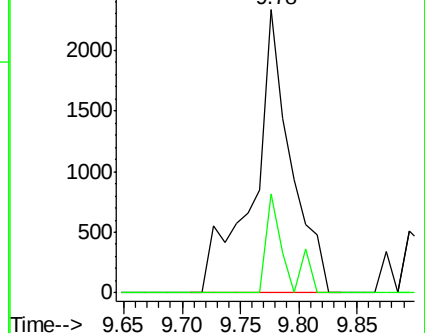
43 100

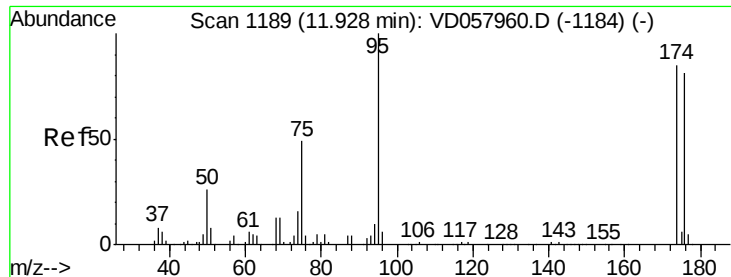
58 34.8 22.5 67.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 11.92 min Scan# 1188

Delta R.T. -0.01 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

Instrument :

MSVOA_D

ClientSampleId :

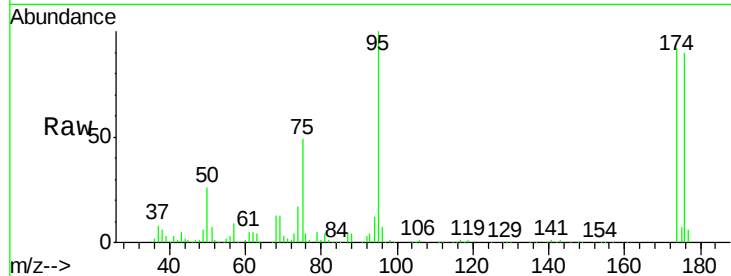
Tot Ion: 95 Resp: 382313

Ion Ratio Lower Upper

95 100

174 92.0 0.0 169.4

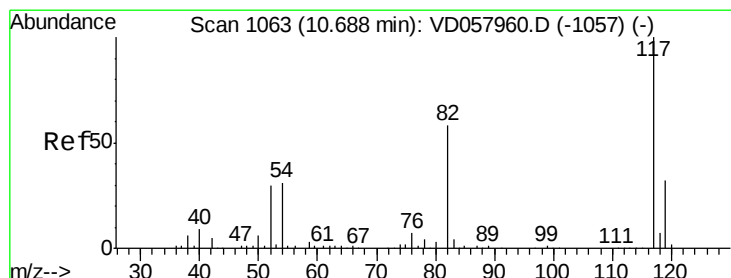
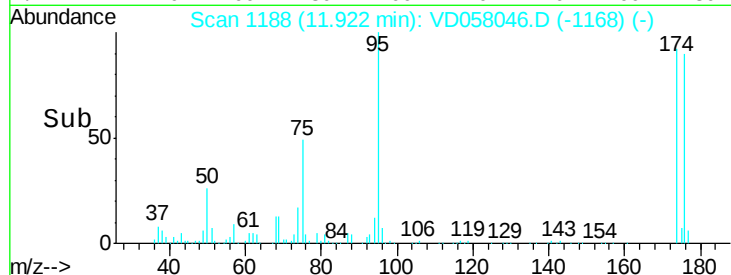
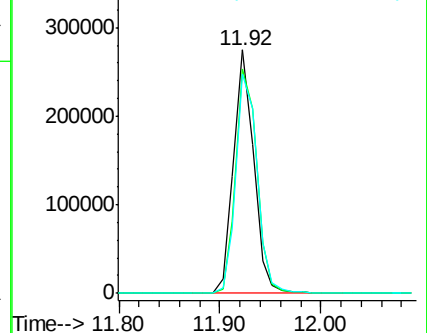
176 90.0 0.0 162.6



Abundance Ion 95.00 (94.70 to 95.70): V

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: 10.68 min Scan# 1062

Delta R.T. -0.01 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

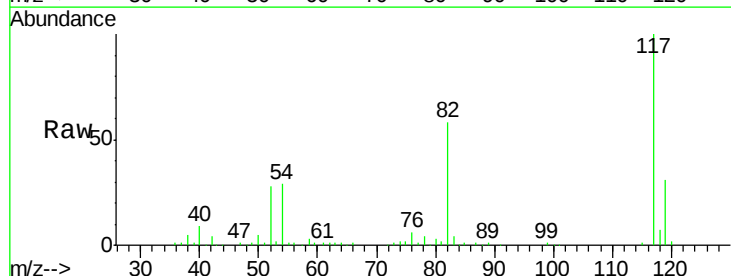
Tgt Ion: 117 Resp: 709317

Ion Ratio Lower Upper

117 100

82 57.6 46.8 70.2

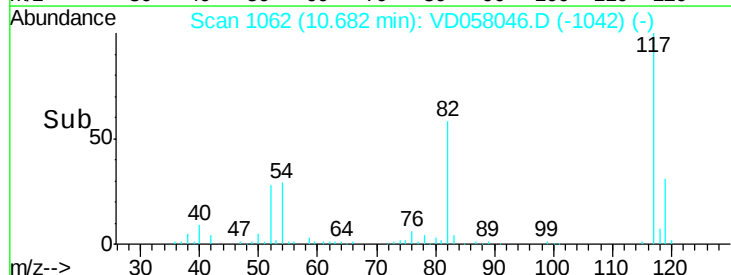
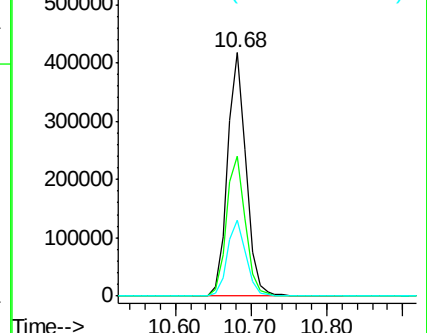
119 31.3 25.8 38.6

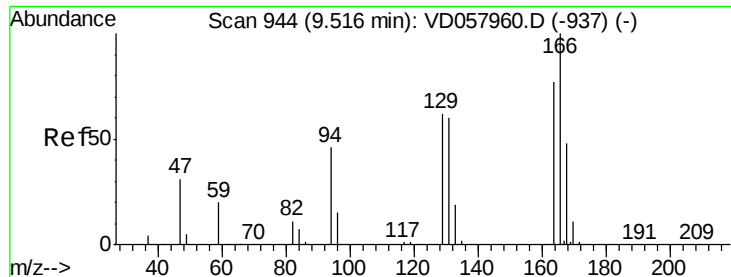


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#64

Tetrachloroethene

Concen: 5.634 ug/l

RT: 9.50 min Scan# 942

Delta R.T. -0.02 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:164 Resp: 35725

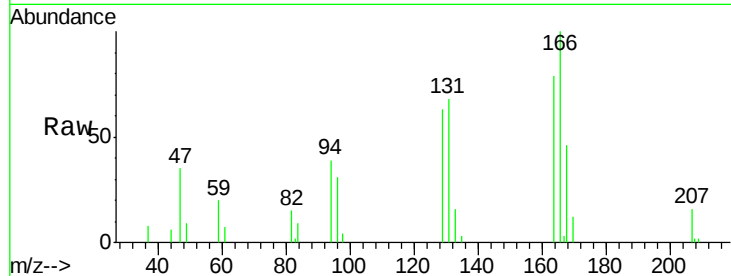
Ion Ratio Lower Upper

164 100

166 126.2 104.4 156.6

129 79.9 65.0 97.6

131 85.9 62.9 94.3

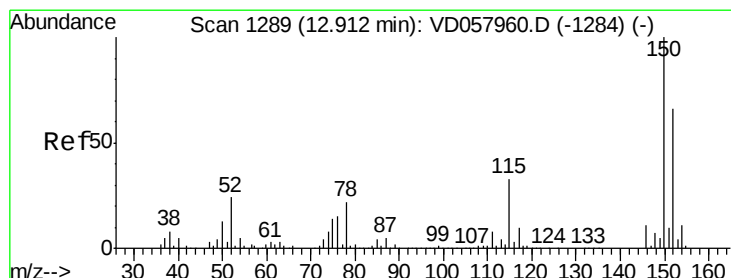
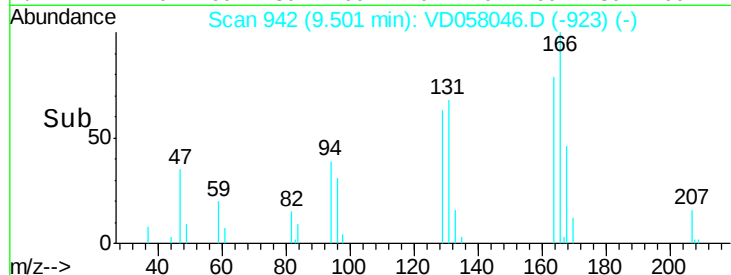
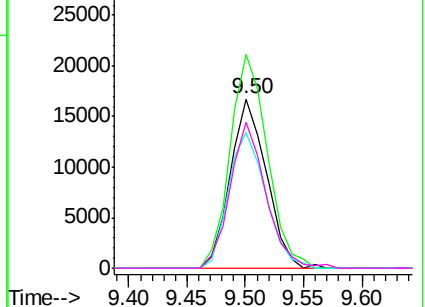


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.90 min Scan# 1287

Delta R.T. -0.02 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

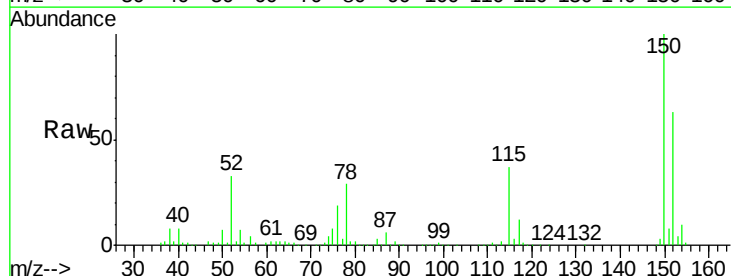
Tgt Ion:152 Resp: 360633

Ion Ratio Lower Upper

152 100

115 58.5 25.6 76.6

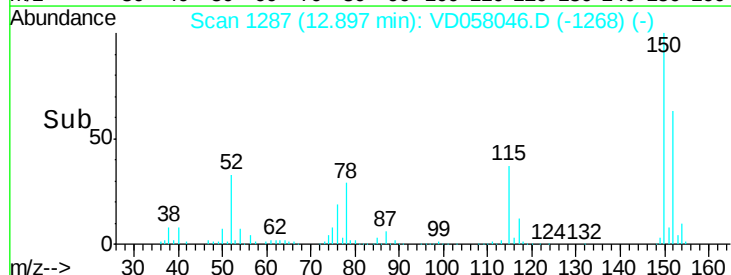
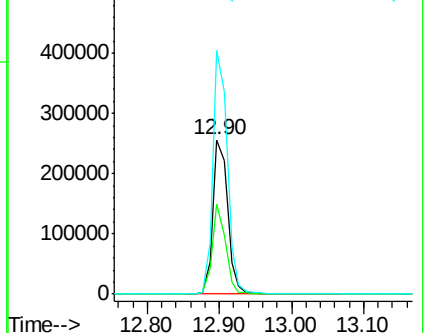
150 157.9 0.0 306.8

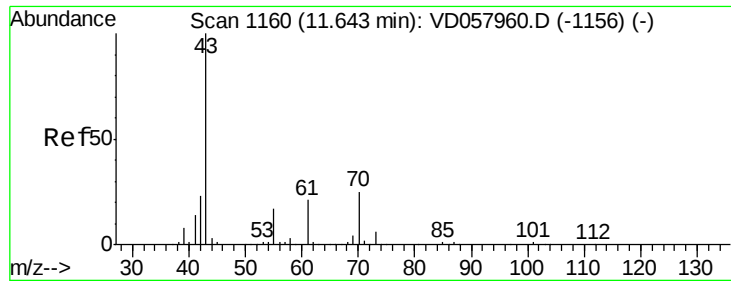


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.288 ug/l

RT: 11.66 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 11869

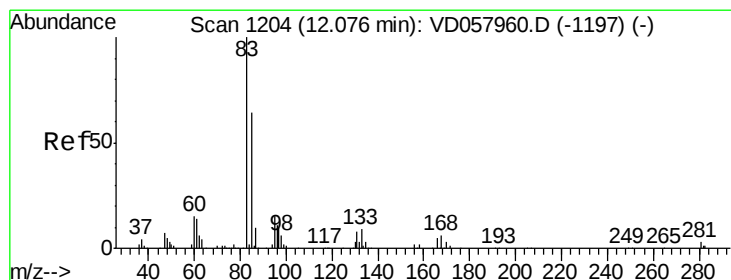
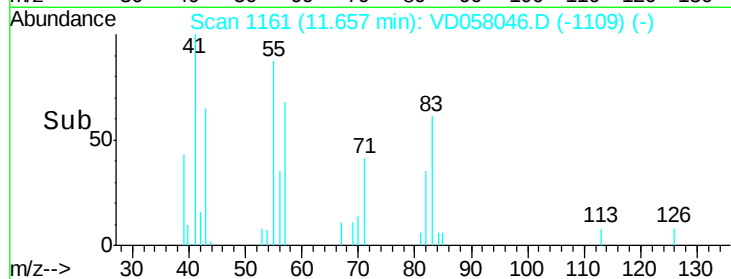
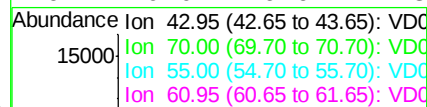
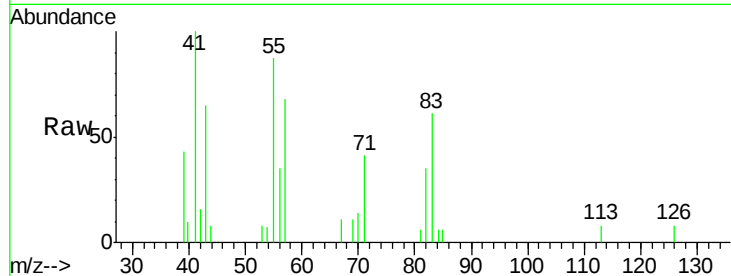
Ion Ratio Lower Upper

43 100

70 21.8 20.3 30.5

55 133.9 13.9 20.9#

61 0.0 16.6 24.8#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.104 ug/l

RT: 12.07 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

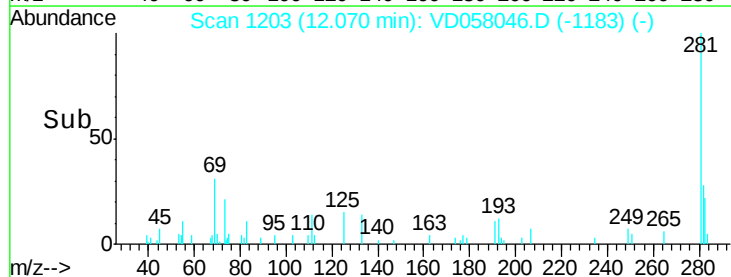
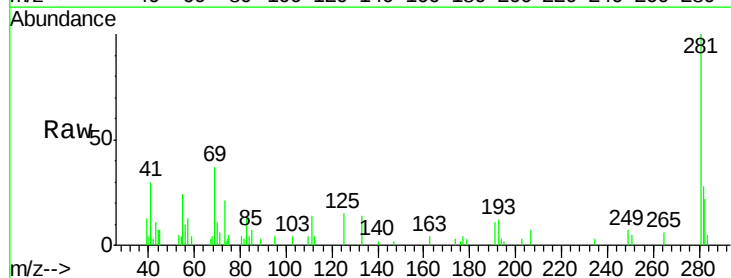
Tgt Ion: 83 Resp: 5752

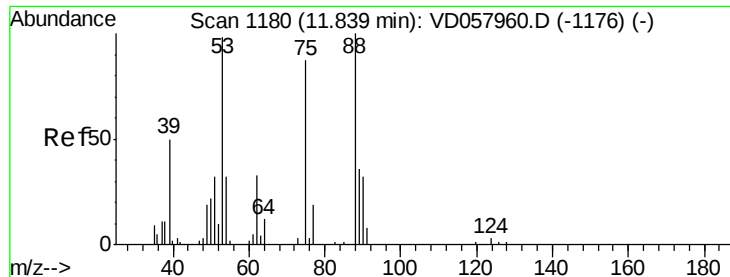
Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.6#

85 50.5 31.9 95.5





#81

trans-1,4-Dichloro-2-butene

Concen: 138.973 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.08 min

Lab File: VD058046.D

Acq: 9 Jun 2018 6:23

Instrument :

MSVOA_D

ClientSampleId :

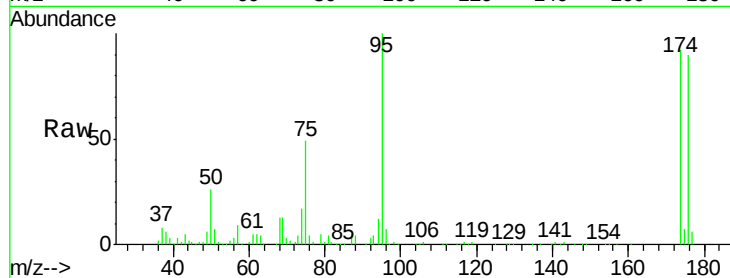
Tot Ion: 75 Resp: 186469

Ion Ratio Lower Upper

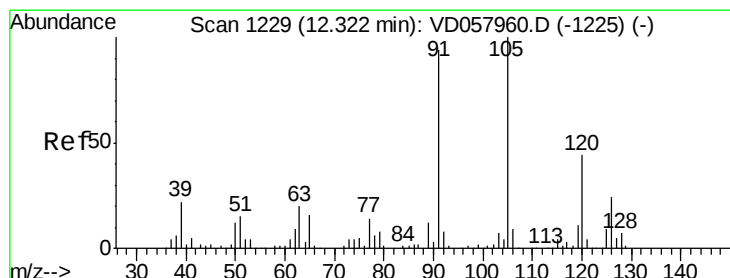
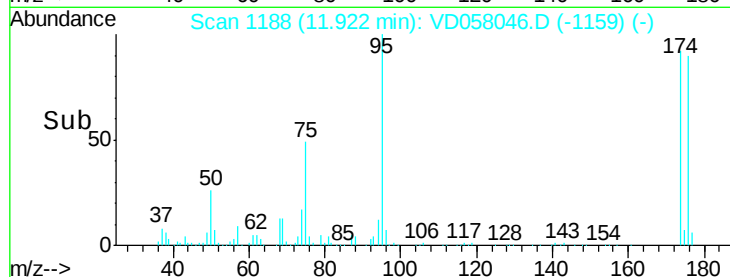
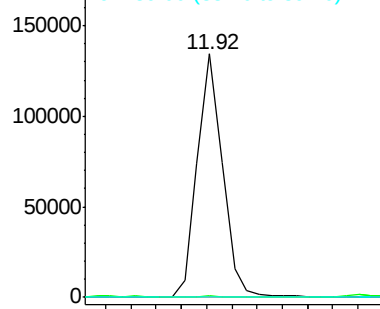
75 100

53 0.5 89.3 133.9#

89 0.0 33.3 49.9#



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



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.32 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VD058046.D

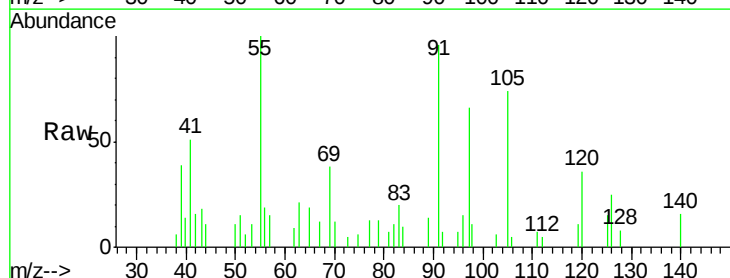
Acq: 9 Jun 2018 6:23

Tgt Ion: 91 Resp: 7819

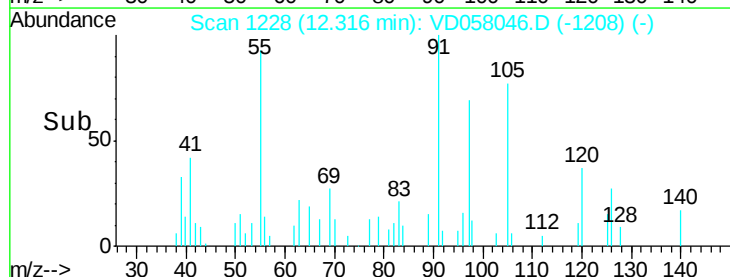
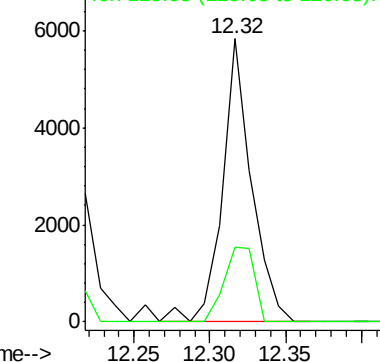
Ion Ratio Lower Upper

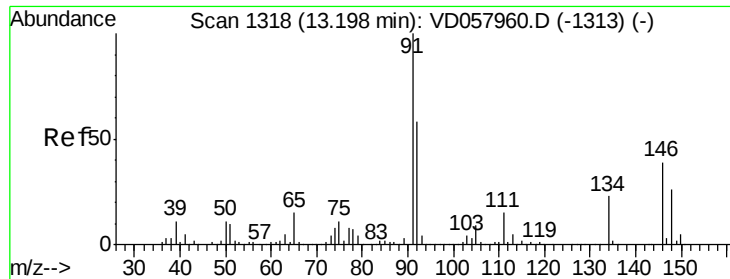
91 100

126 26.6 12.5 37.5



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

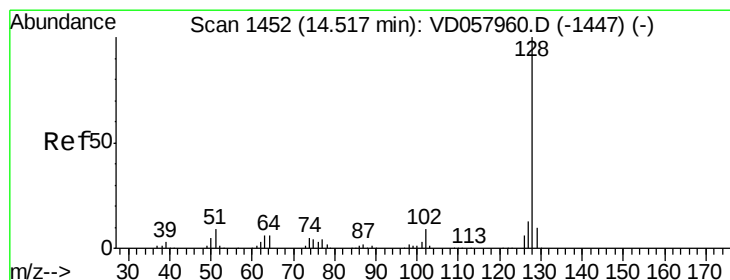
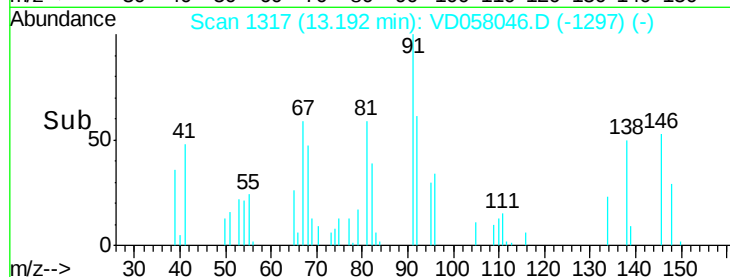
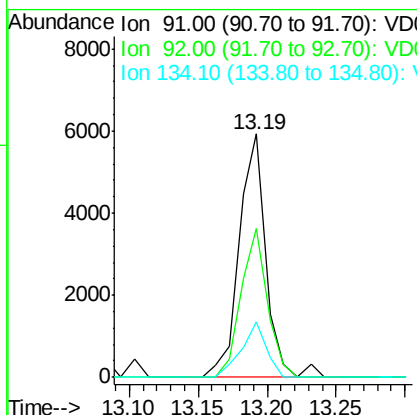
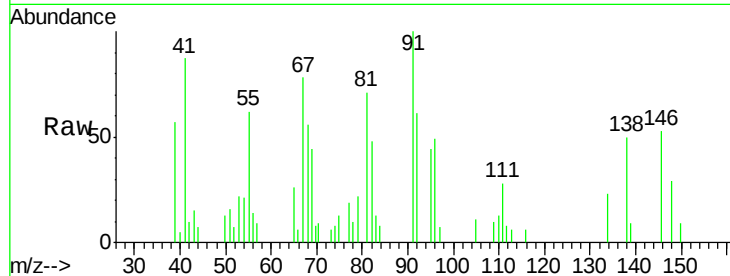




#89
n-Butylbenzene
Concen: Below Cal
RT: 13.19 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VD058046.D
Acq: 9 Jun 2018 6:23

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 91 Resp: 8046
Ion Ratio Lower Upper
91 100
92 61.2 29.2 87.6
134 22.6 11.3 33.9



#95
Naphthalene
Concen: 1.385 ug/l
RT: 14.51 min Scan# 1451
Delta R.T. -0.01 min
Lab File: VD058046.D
Acq: 9 Jun 2018 6:23

Tgt Ion: 128 Resp: 16125
Ion Ratio Lower Upper
128 100
127 13.8 10.2 15.2
129 9.6 8.2 12.2

