

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062418\
 Data File : VD058380.D
 Acq On : 24 Jun 2018 19:11
 Operator : VA/AP
 Sample : J3671-22
 Misc : 5.35g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 04:05:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	717535	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.70	114	932480	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	763907	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.92	152	407936	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	407147	56.18	ug/l	0.02
Spiked Amount			Recovery	=	112.36%	
35) Dibromofluoromethane	5.55	113	418611	55.16	ug/l	0.00
Spiked Amount			Recovery	=	110.32%	
50) Toluene-d8	8.71	98	933004	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	11.93	95	423884	56.51	ug/l	0.00
Spiked Amount			Recovery	=	113.02%	

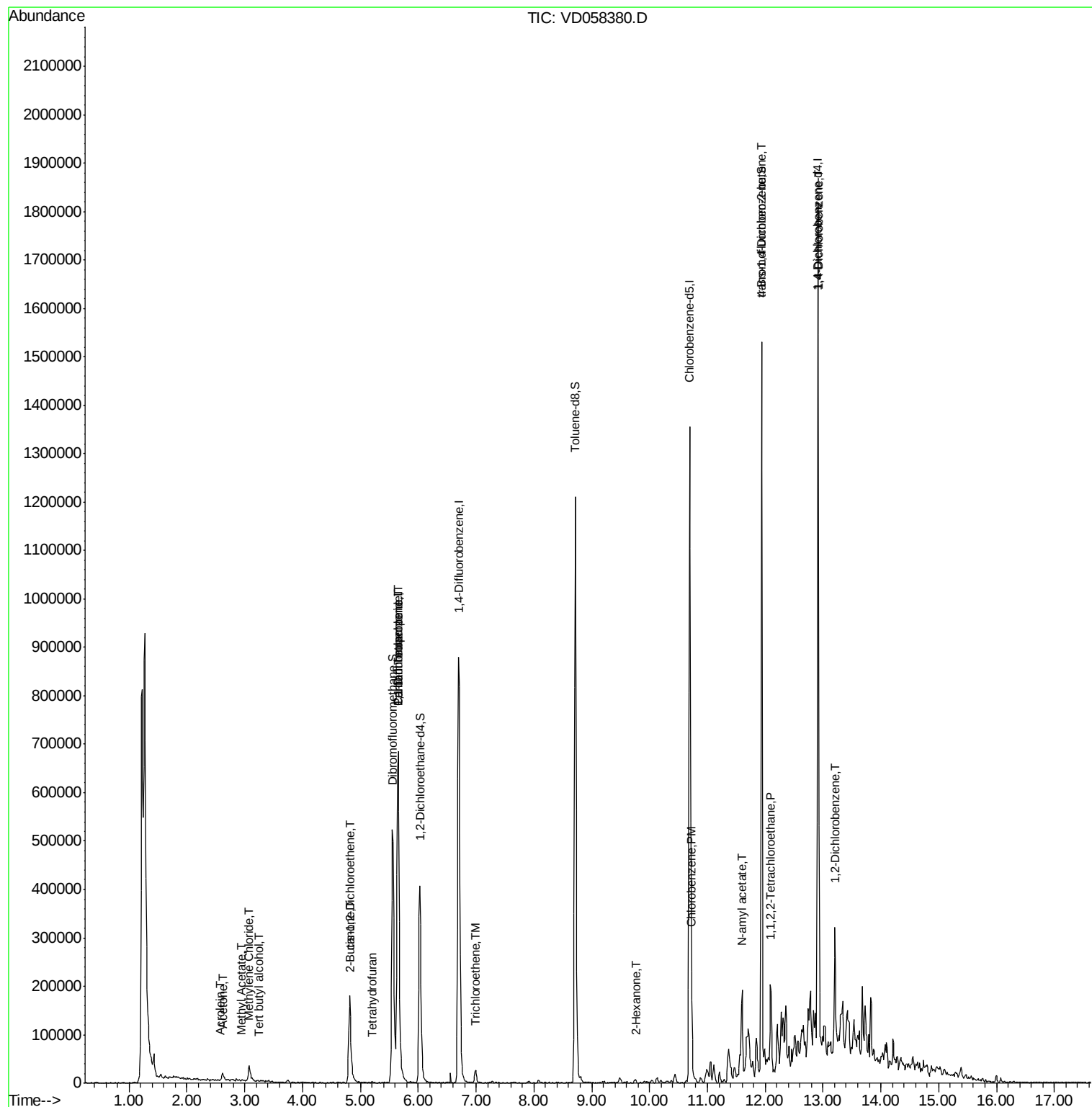
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.35	85	207	Below Cal	#	43
3) Chloromethane	1.46	50	361	Below Cal	#	43
5) Bromomethane	1.80	94	192	Below Cal	#	3
11) Tert butyl alcohol	3.25	59	345	1.443	ug/l #	78
13) Acrolein	2.57	56	190	1.392	ug/l #	11
16) Acetone	2.62	43	30913	31.188	ug/l #	79
18) Methyl Acetate	2.94	43	3142	1.486	ug/l #	65
20) Methylene Chloride	3.07	84	15173	1.214	ug/l	91
25) 2-Butanone	4.84	43	3354	1.553	ug/l #	60
27) cis-1,2-Dichloroethene	4.82	96	103360	15.352	ug/l	76
29) Tetrahydrofuran	5.21	42	1557	1.354	ug/l #	65
31) Cyclohexane	5.64	56	15971	Below Cal	#	1
36) 1,1-Dichloropropene	5.64	75	57761	6.262	ug/l #	50
38) Carbon Tetrachloride	5.65	117	56615	6.177	ug/l #	14
44) Trichloroethene	6.99	130	12574	1.906	ug/l	79
59) 2-Hexanone	9.76	43	3864	1.170	ug/l #	32
65) Chlorobenzene	10.73	112	70083	4.905	ug/l	96
74) N-amyl acetate	11.60	43	27281	2.892	ug/l #	58
75) 1,1,2,2-Tetrachloroethane	12.09	83	6353	1.119	ug/l #	57
81) trans-1,4-Dichloro-2-buten	11.93	75	192637	132.613	ug/l #	1
82) 4-Chlorotoluene	12.33	91	2629	Below Cal		79
88) 1,4-Dichlorobenzene	12.93	146	17363	1.400	ug/l #	76
91) 1,2-Dichlorobenzene	13.19	146	27295	2.526	ug/l	94

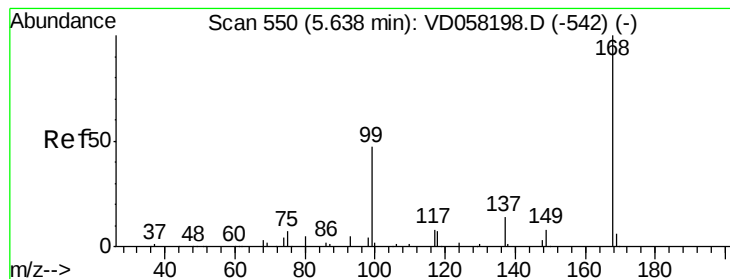
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062418\
Data File : VD058380.D
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Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.02 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

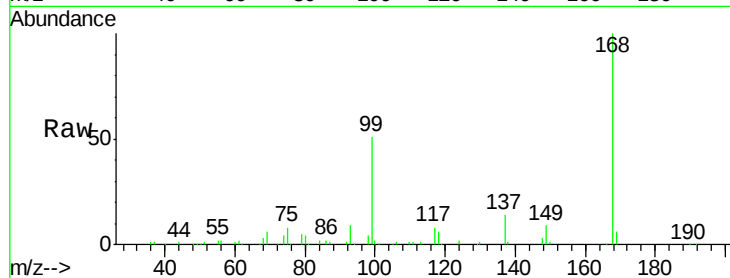
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 717535

Ion Ratio Lower Upper

168 100

99 51.2 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.65

250000

200000

150000

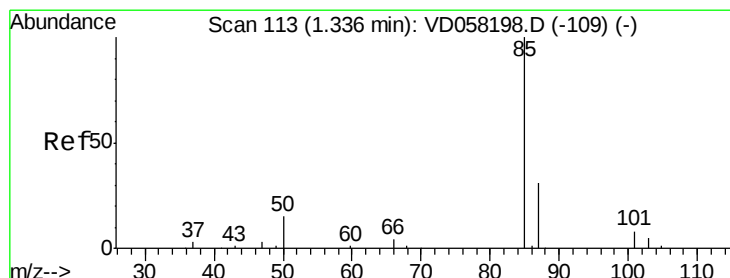
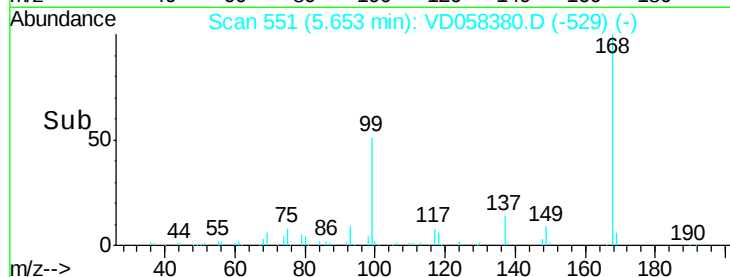
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.35 min Scan# 114

Delta R.T. 0.02 min

Lab File: VD058380.D

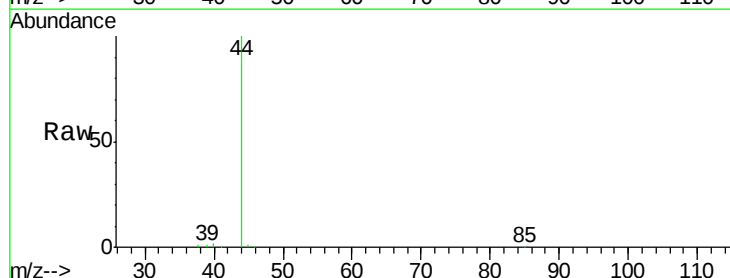
Acq: 24 Jun 2018 19:11

Tgt Ion: 85 Resp: 207

Ion Ratio Lower Upper

85 100

87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.35

400

300

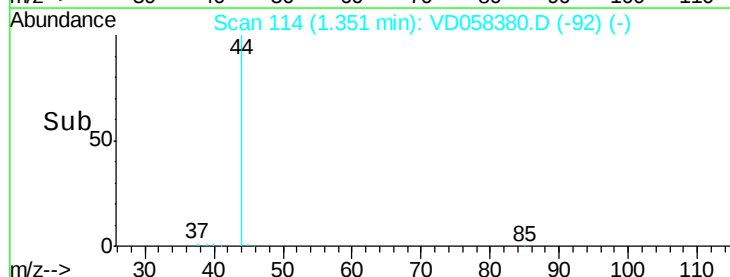
200

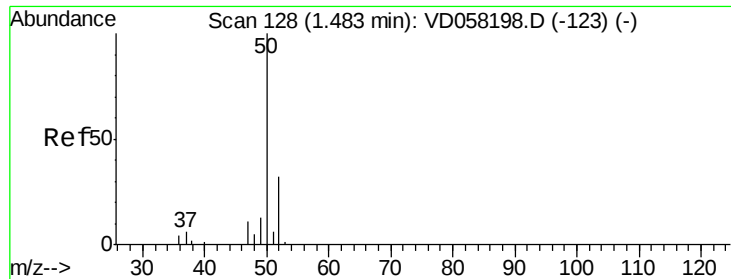
100

0

Time-->

1.32 1.34 1.36 1.38





#3

Chloromethane

Concen: Below Cal

RT: 1.46 min Scan# 125

Delta R.T. -0.02 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

Instrument :

MSVOA_D

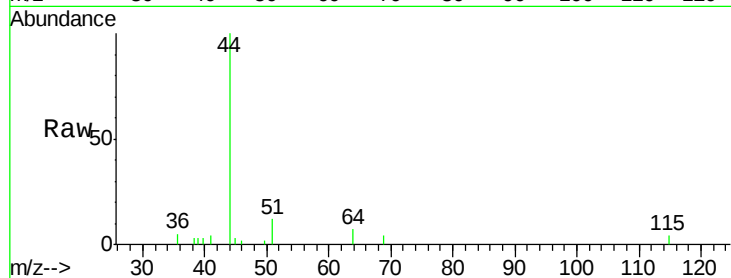
ClientSampleId :

Tot Ion: 50 Resp: 361

Ion Ratio Lower Upper

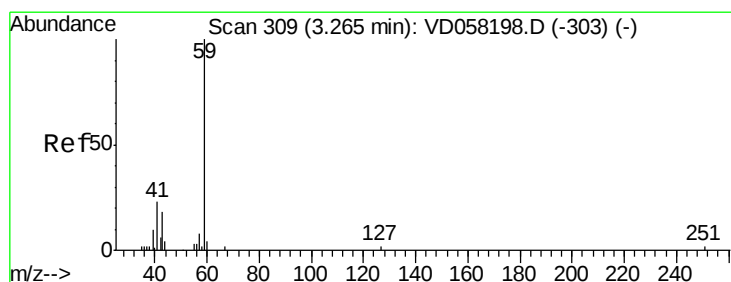
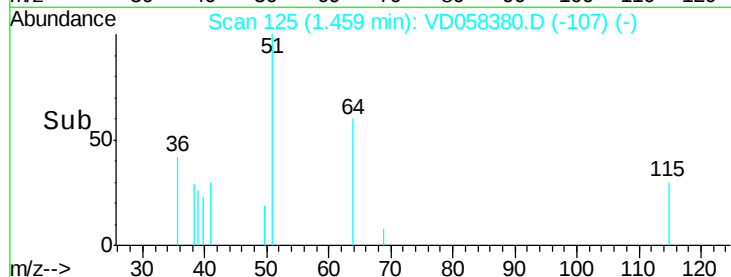
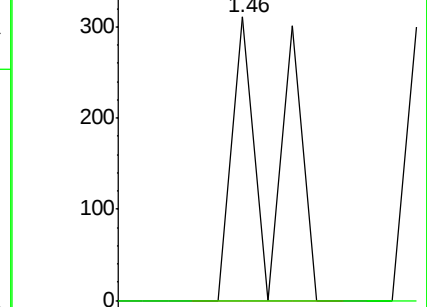
50 100

52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#11

Tert butyl alcohol

Concen: 1.443 ug/l

RT: 3.25 min Scan# 307

Delta R.T. -0.01 min

Lab File: VD058380.D

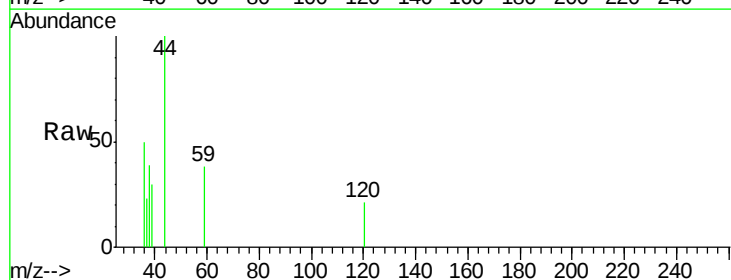
Acq: 24 Jun 2018 19:11

Tgt Ion: 59 Resp: 345

Ion Ratio Lower Upper

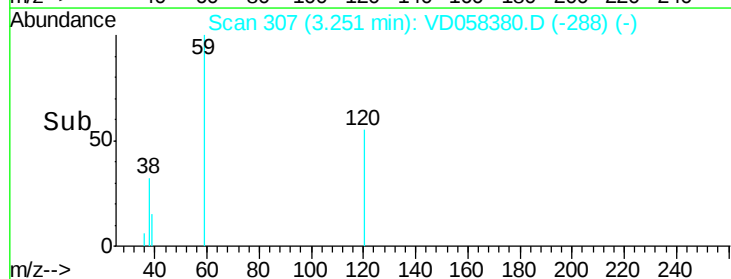
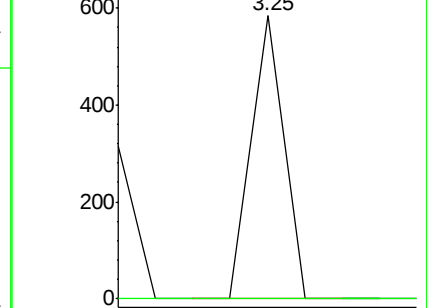
59 100

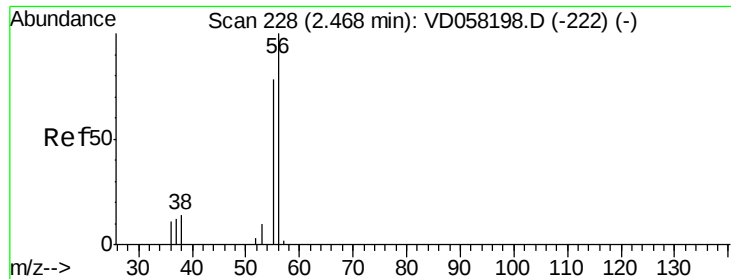
57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.392 ug/l

RT: 2.57 min Scan# 238

Delta R.T. 0.10 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

Instrument :

MSVOA_D

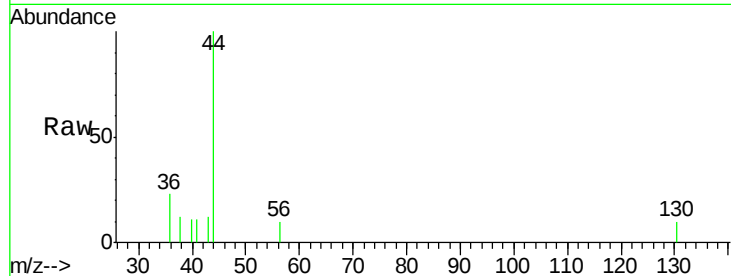
ClientSampleId :

Tot Ion: 56 Resp: 190

Ion Ratio Lower Upper

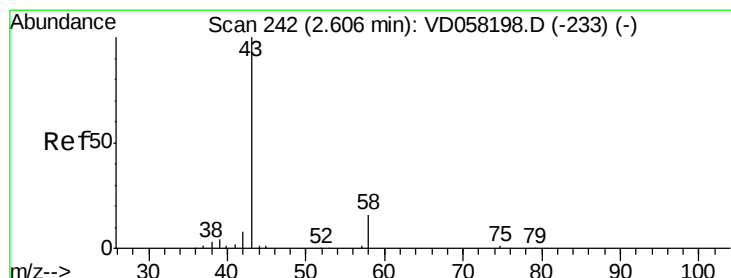
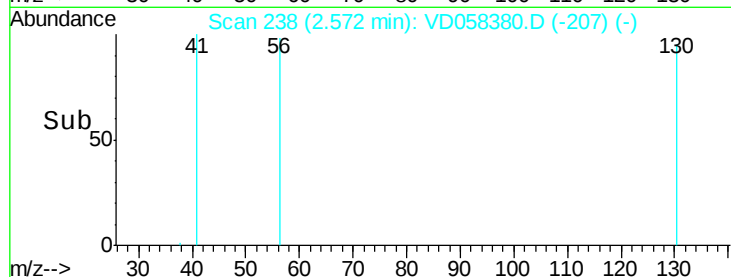
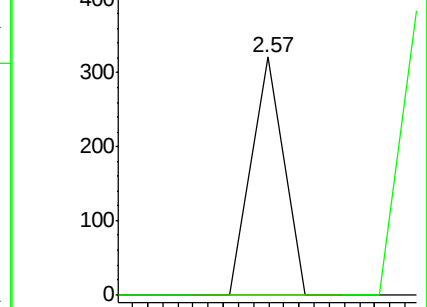
56 100

55 0.0 62.1 93.1#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 31.188 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD058380.D

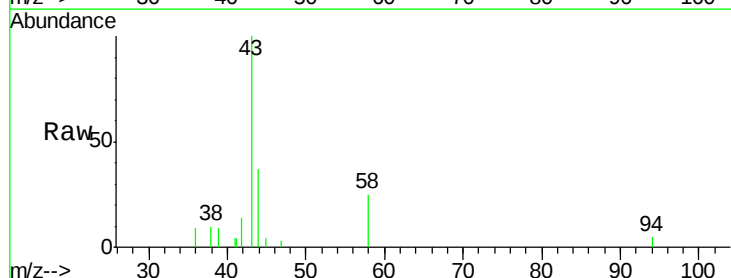
Acq: 24 Jun 2018 19:11

Tgt Ion: 43 Resp: 30913

Ion Ratio Lower Upper

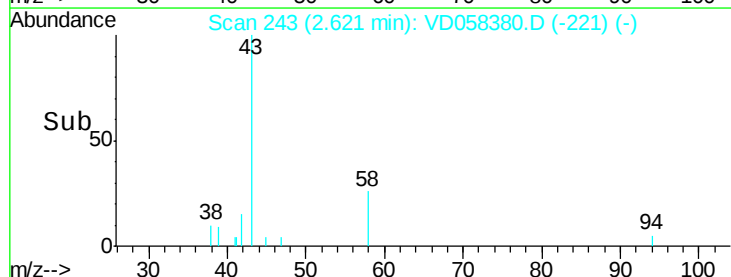
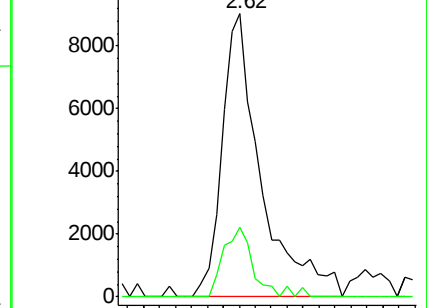
43 100

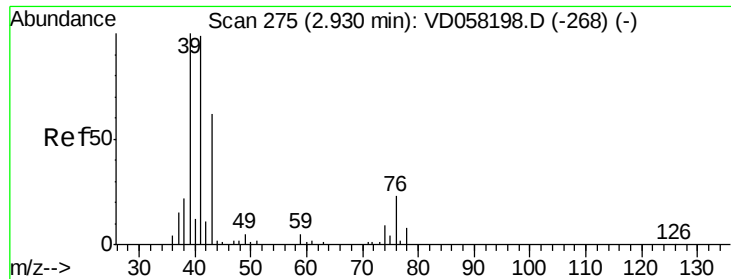
58 24.7 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

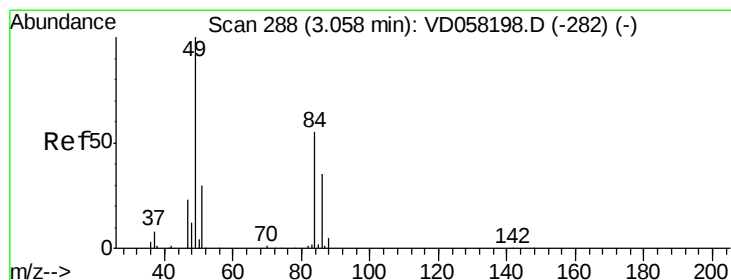
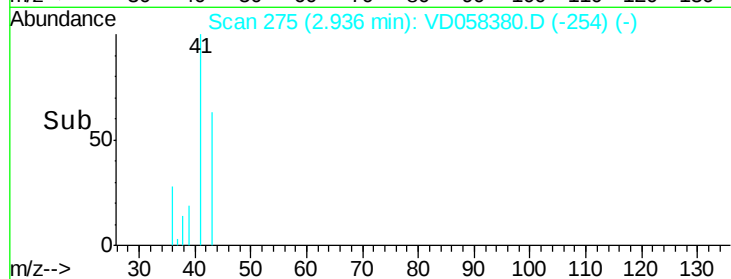
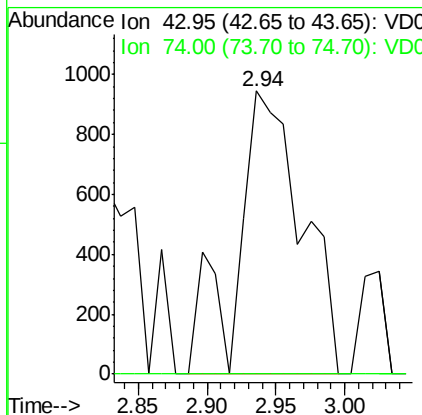
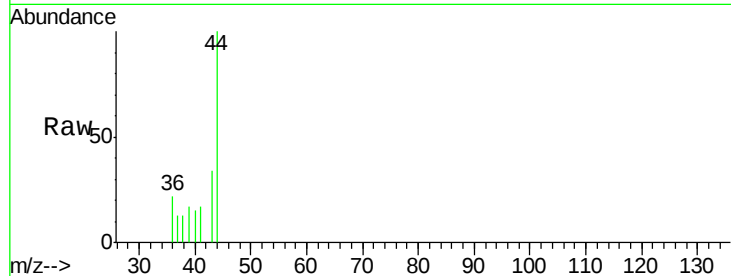




#18
Methyl Acetate
Concen: 1.486 ug/l
RT: 2.94 min Scan# 275
Delta R.T. 0.01 min
Lab File: VD058380.D
Acq: 24 Jun 2018 19:11

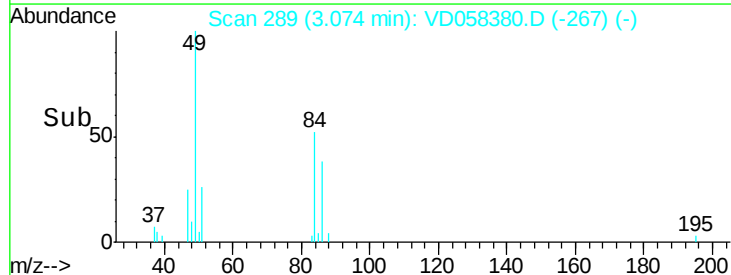
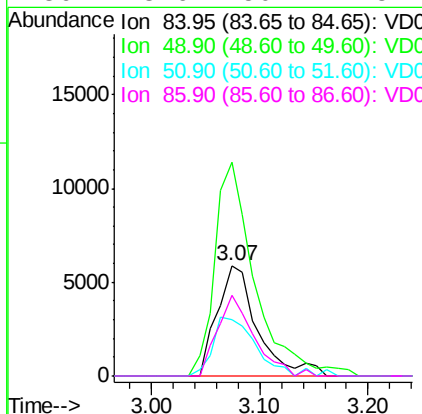
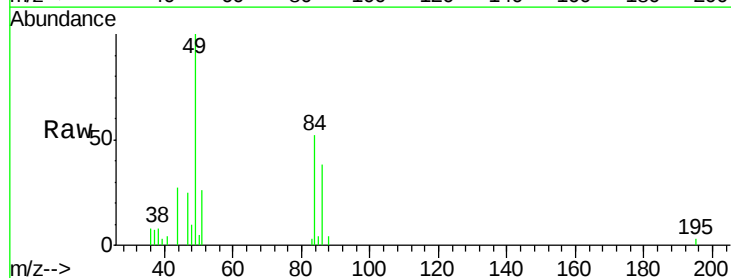
Instrument :
MSVOA_D
ClientSampled :

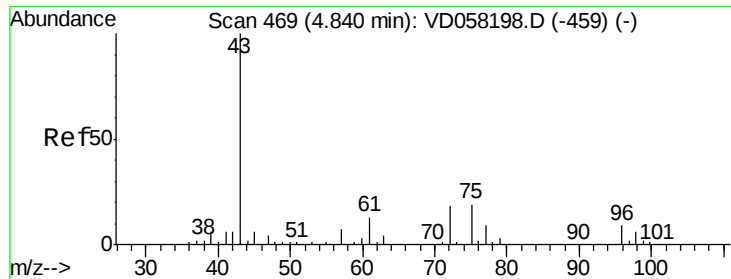
Tot Ion: 43 Resp: 3142
Ion Ratio Lower Upper
43 100
74 0.0 11.7 17.5#



#20
Methylene Chloride
Concen: 1.214 ug/l
RT: 3.07 min Scan# 289
Delta R.T. 0.02 min
Lab File: VD058380.D
Acq: 24 Jun 2018 19:11

Tgt Ion: 84 Resp: 15173
Ion Ratio Lower Upper
84 100
49 193.9 145.0 217.6
51 51.3 42.9 64.3
86 73.6 50.1 75.1





#25

2-Butanone

Concen: 1.553 ug/l

RT: 4.84 min Scan# 468

Delta R.T. -0.00 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

Instrument :

MSVOA_D

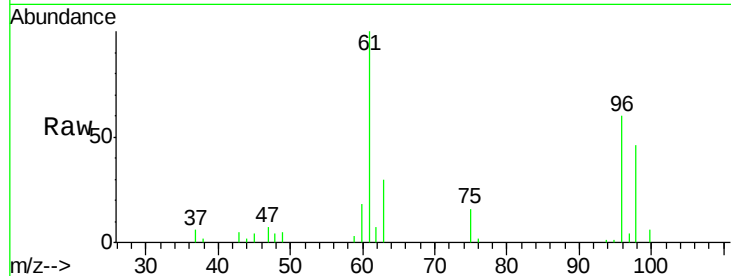
ClientSampleId :

Tot Ion: 43 Resp: 3354

Ion Ratio Lower Upper

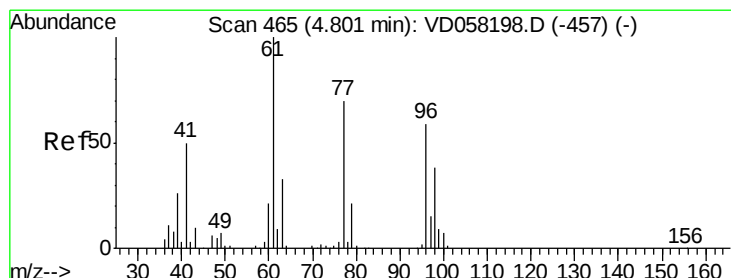
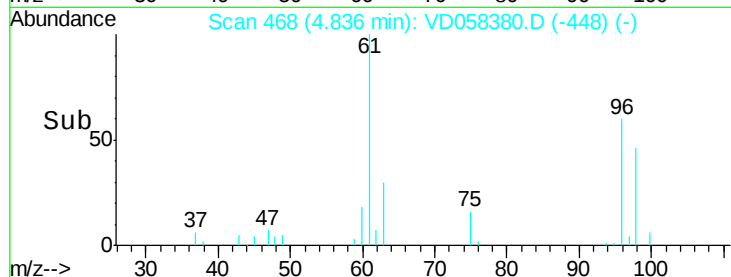
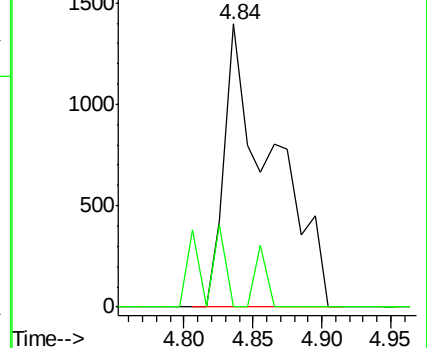
43 100

72 0.0 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#27

cis-1,2-Dichloroethene

Concen: 15.352 ug/l

RT: 4.82 min Scan# 466

Delta R.T. 0.02 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

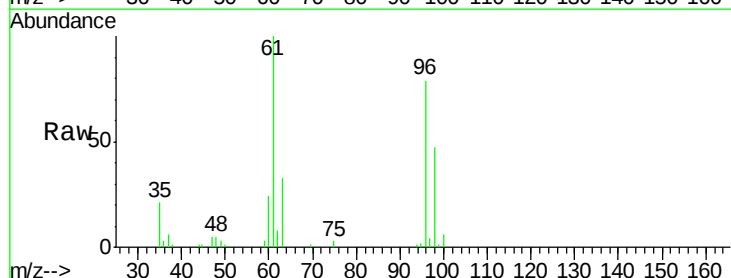
Tgt Ion: 96 Resp: 103360

Ion Ratio Lower Upper

96 100

61 127.0 0.0 338.6

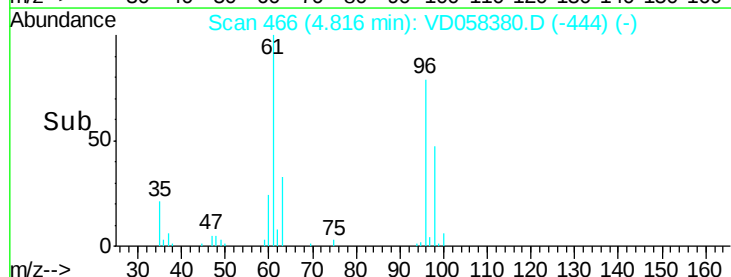
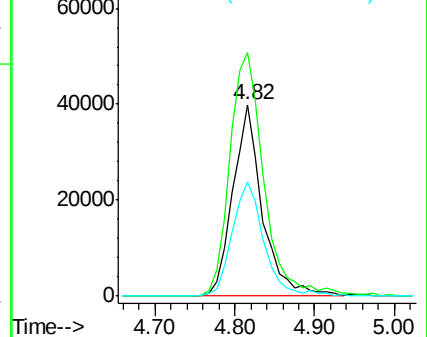
98 59.7 0.0 130.2

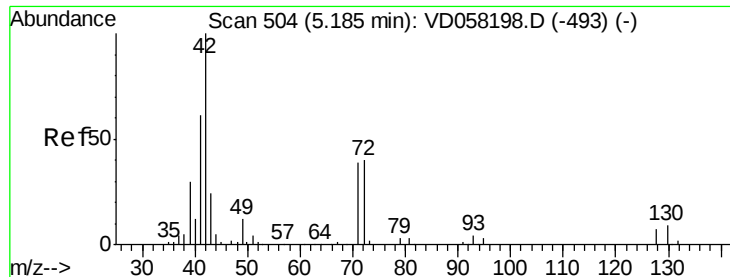


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC

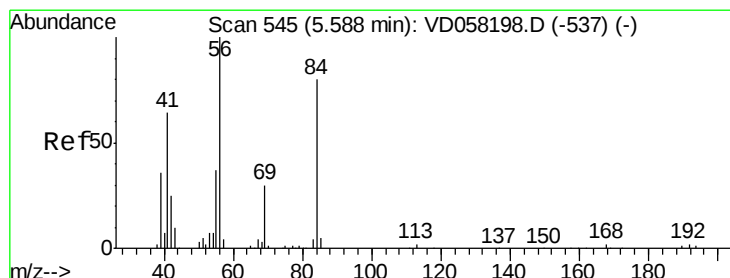
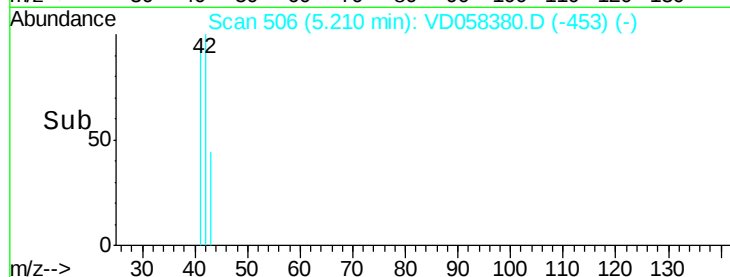
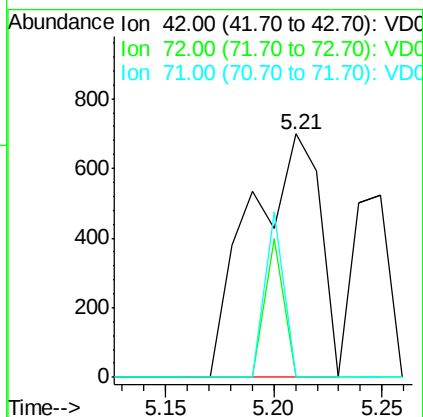
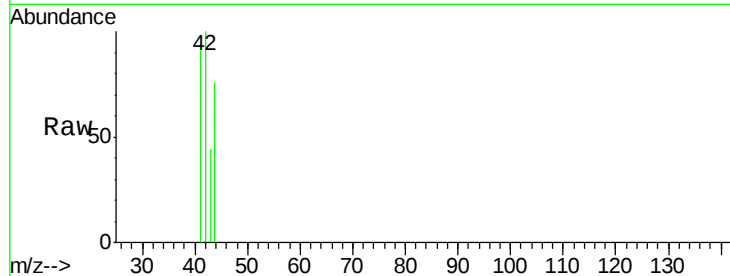




#29
Tetrahydrofuran
Concen: 1.354 ug/l
RT: 5.21 min Scan# 506
Delta R.T. 0.03 min
Lab File: VD058380.D
Acq: 24 Jun 2018 19:11

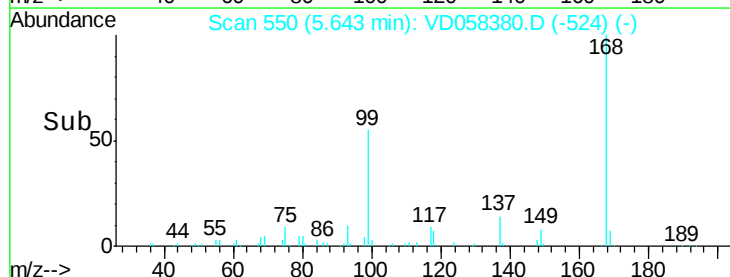
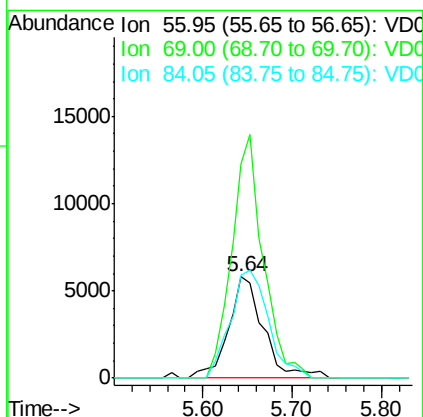
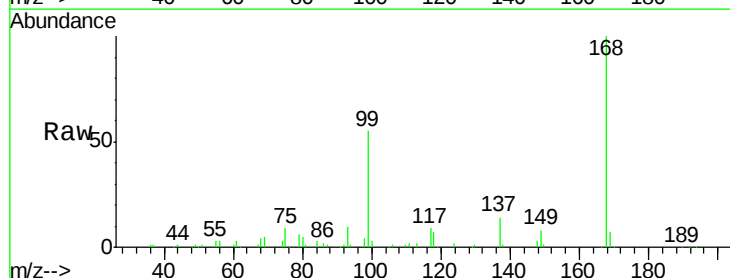
Instrument :
MSVOA_D
ClientSampled :

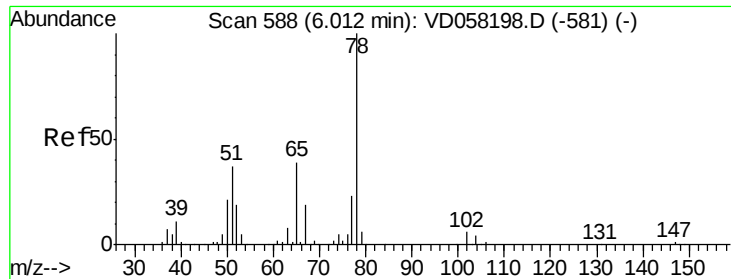
Tot Ion: 42 Resp: 1557
Ion Ratio Lower Upper
42 100
72 15.0 30.2 45.2#
71 18.0 30.1 45.1#



#31
Cyclohexane
Concen: Below Cal
RT: 5.64 min Scan# 550
Delta R.T. 0.06 min
Lab File: VD058380.D
Acq: 24 Jun 2018 19:11

Tgt Ion: 56 Resp: 15971
Ion Ratio Lower Upper
56 100
69 210.8 23.6 35.4#
84 101.4 65.2 97.8#

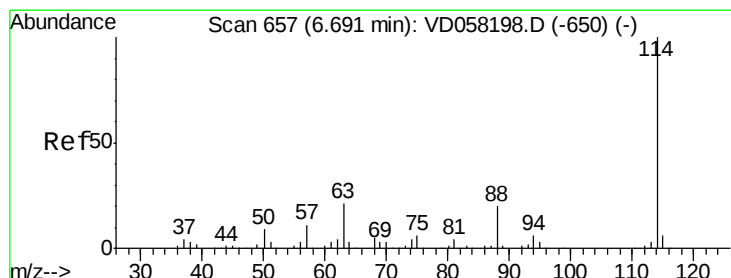
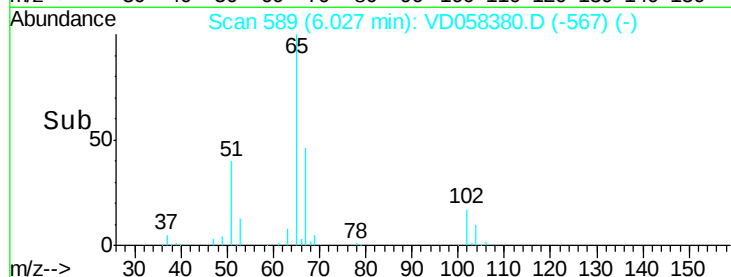
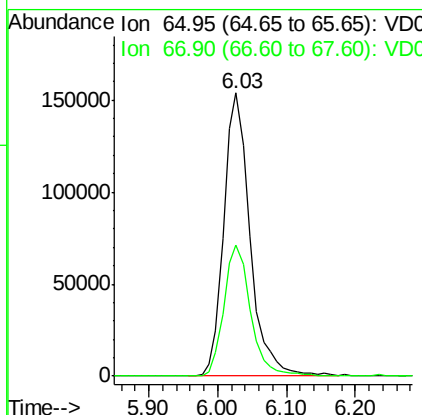
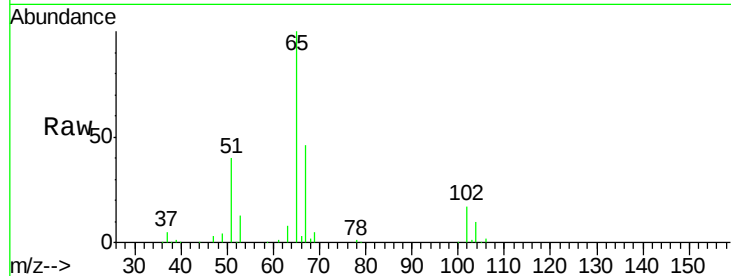




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.03 min Scan# 589
 Delta R.T. 0.02 min
 Lab File: VD058380.D
 Acq: 24 Jun 2018 19:11

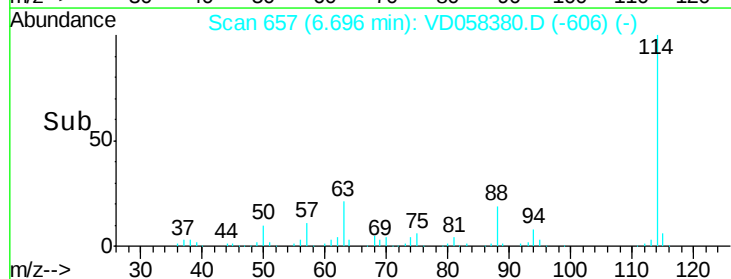
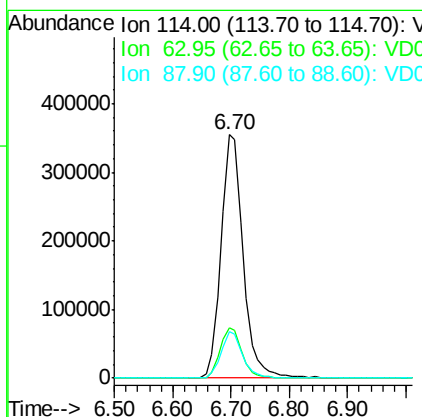
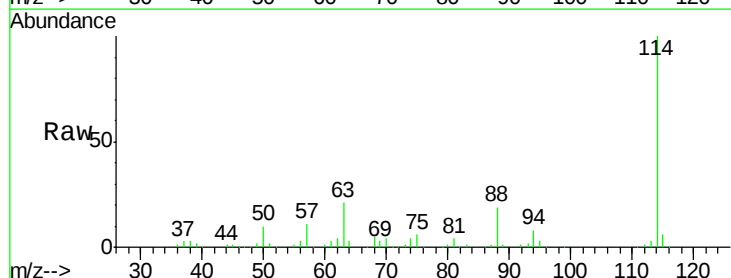
Instrument :
 MSVOA_D
 ClientSampleId :

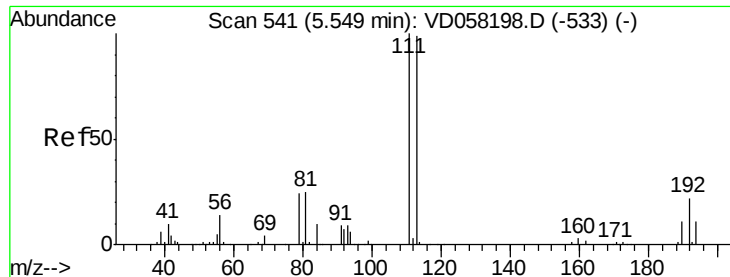
Tot Ion: 65 Resp: 407147
 Ion Ratio Lower Upper
 65 100
 67 46.2 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.70 min Scan# 657
 Delta R.T. 0.01 min
 Lab File: VD058380.D
 Acq: 24 Jun 2018 19:11

Tgt Ion: 114 Resp: 932480
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 42.6
 88 18.9 0.0 40.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.55 min Scan# 541

Delta R.T. 0.01 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

Instrument :
MSVOA_D
ClientSampleId :

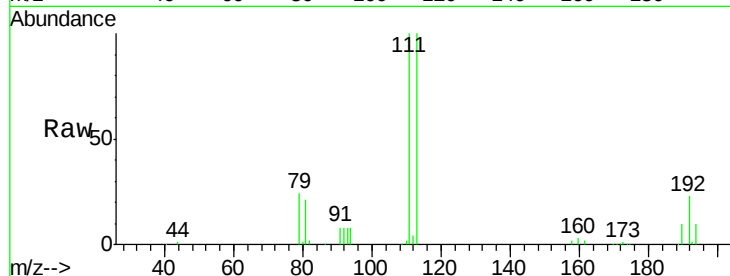
Tot Ion:113 Resp: 418611

Ion Ratio Lower Upper

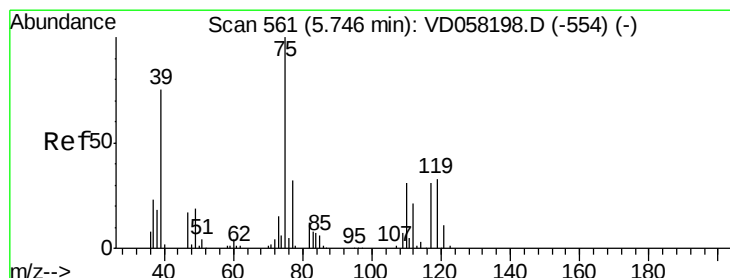
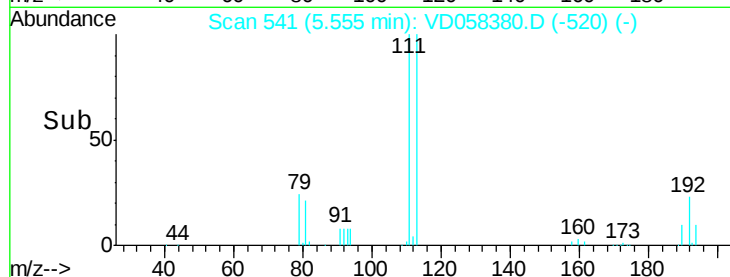
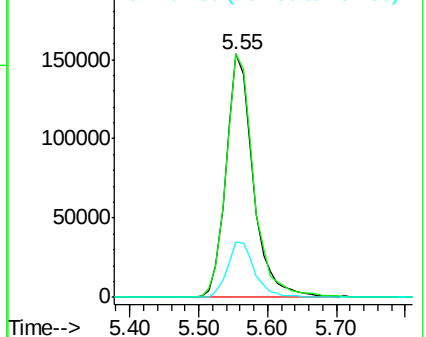
113 100

111 100.0 80.6 121.0

192 22.9 17.8 26.6



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: 6.262 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.10 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

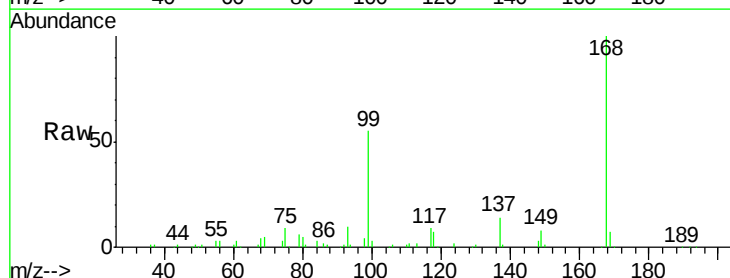
Tgt Ion: 75 Resp: 57761

Ion Ratio Lower Upper

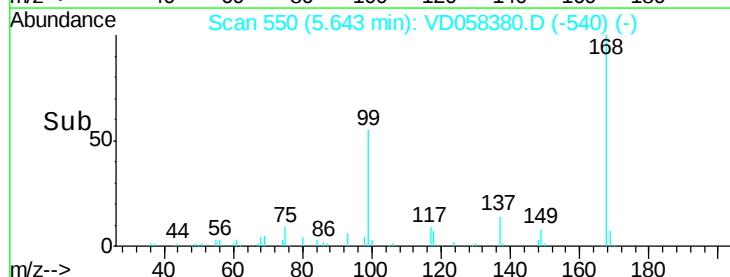
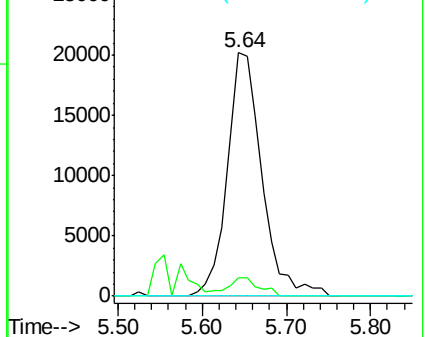
75 100

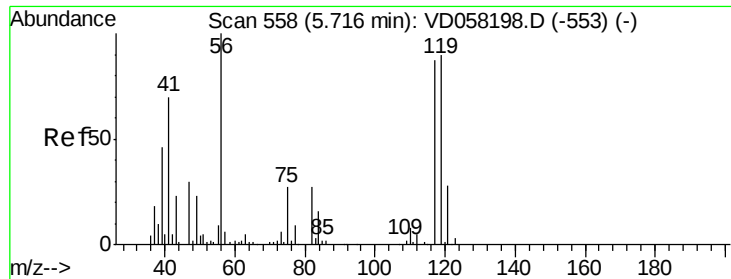
110 7.4 15.4 46.4#

77 0.0 25.4 38.2#



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





#38

Carbon Tetrachloride

Concen: 6.177 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.06 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

Instrument :

MSVOA_D

ClientSampled :

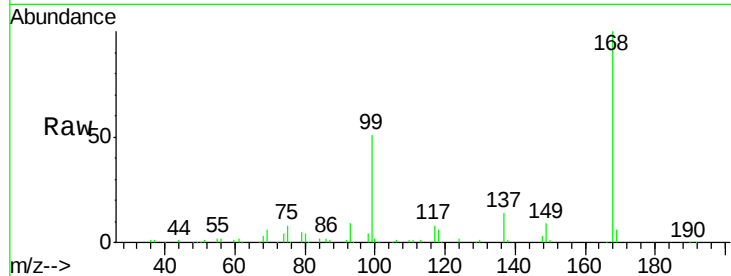
Tot Ion:117 Resp: 56615

Ion Ratio Lower Upper

117 100

119 3.7 78.8 118.2#

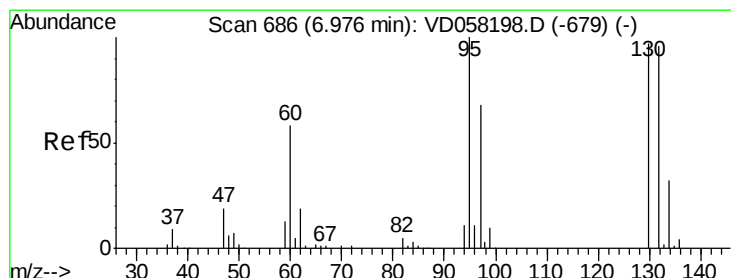
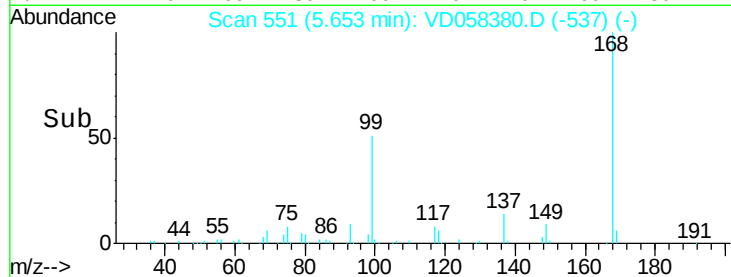
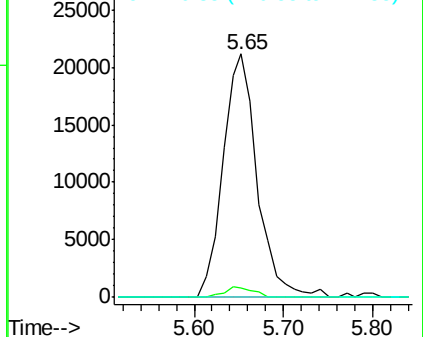
121 0.0 25.0 37.6#



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



#44

Trichloroethene

Concen: 1.906 ug/l

RT: 6.99 min Scan# 687

Delta R.T. 0.02 min

Lab File: VD058380.D

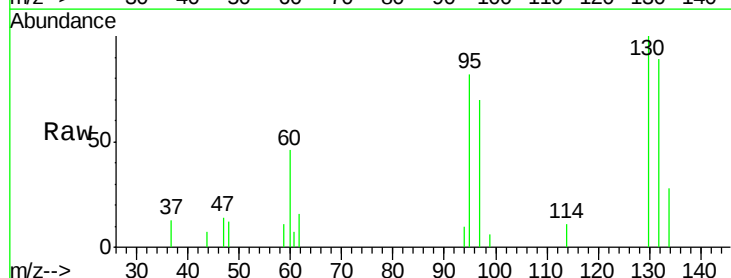
Acq: 24 Jun 2018 19:11

Tgt Ion:130 Resp: 12574

Ion Ratio Lower Upper

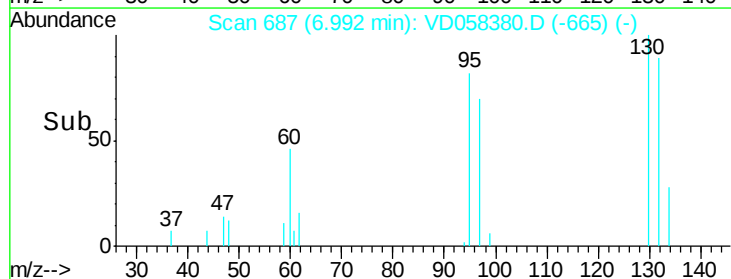
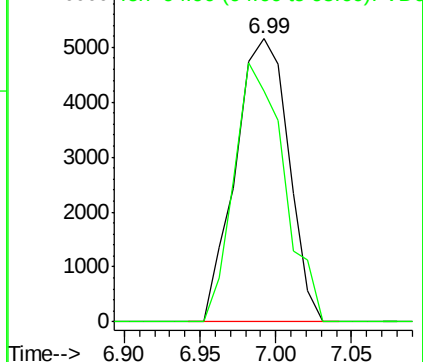
130 100

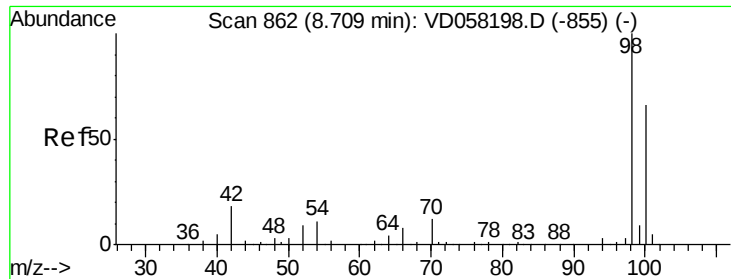
95 81.8 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V

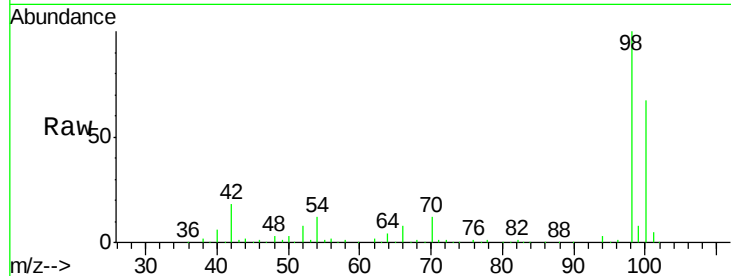




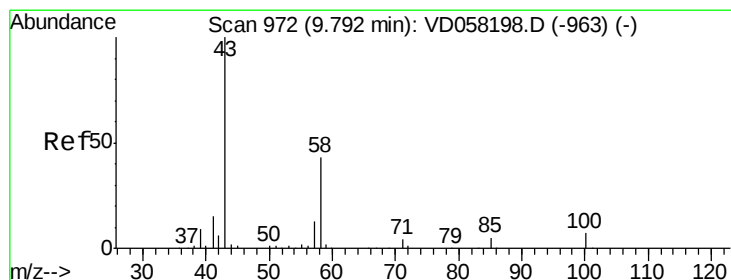
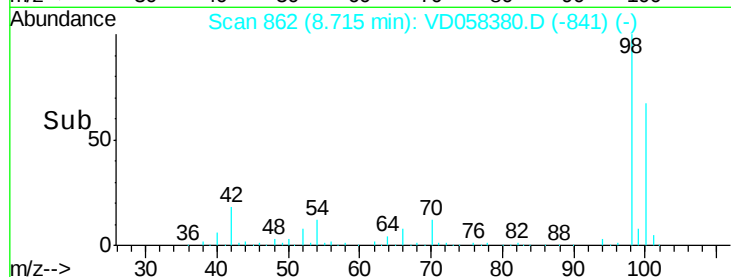
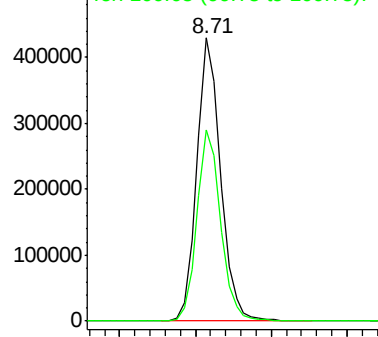
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.71 min Scan# 862
Delta R.T. 0.01 min
Lab File: VD058380.D
Acq: 24 Jun 2018 19:11

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 933004
Ion Ratio Lower Upper
98 100
100 67.4 53.6 80.4

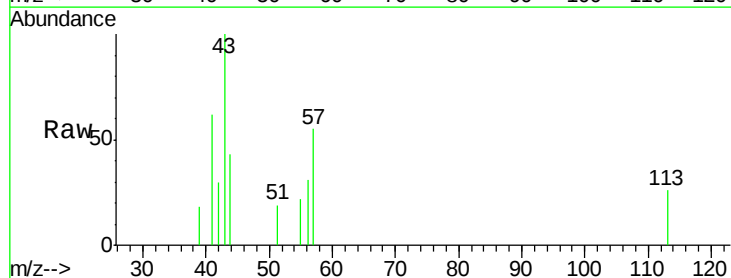


Abundance Ion 98.05 (97.75 to 98.75): VD058198.D (-855) (-)
Ion 100.05 (99.75 to 100.75): VD058198.D (-855) (-)

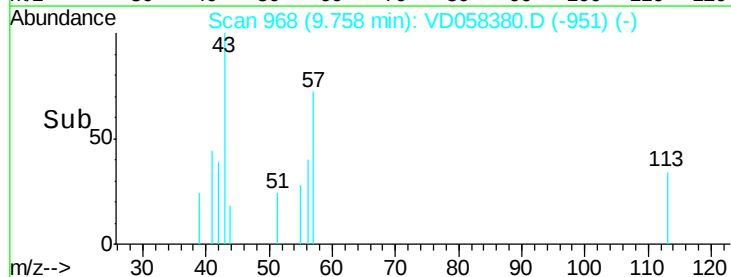
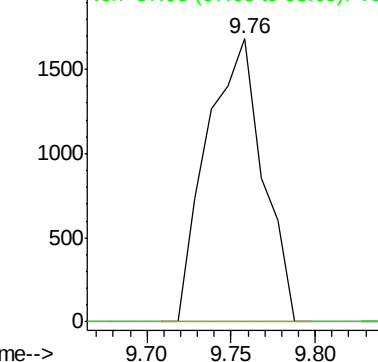


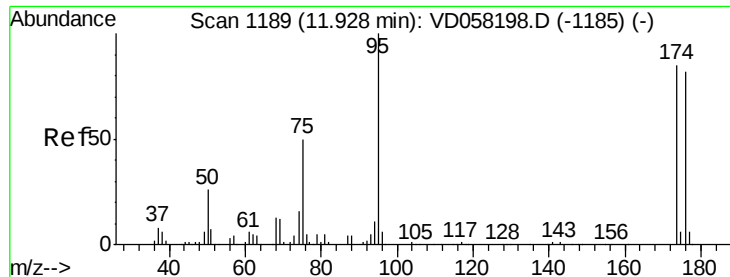
#59
2-Hexanone
Concen: 1.170 ug/l
RT: 9.76 min Scan# 968
Delta R.T. -0.03 min
Lab File: VD058380.D
Acq: 24 Jun 2018 19:11

Tgt Ion: 43 Resp: 3864
Ion Ratio Lower Upper
43 100
58 0.0 21.7 65.1#



Abundance Ion 42.95 (42.65 to 43.65): VD058198.D (-963) (-)
Ion 57.95 (57.65 to 58.65): VD058198.D (-963) (-)





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.01 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

Instrument :

MSVOA_D

ClientSampleId :

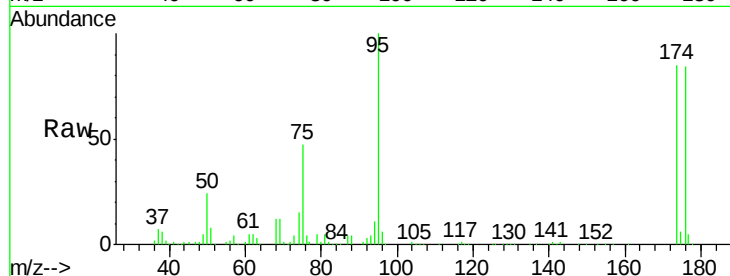
Tot Ion: 95 Resp: 423884

Ion Ratio Lower Upper

95 100

174 84.5 0.0 170.2

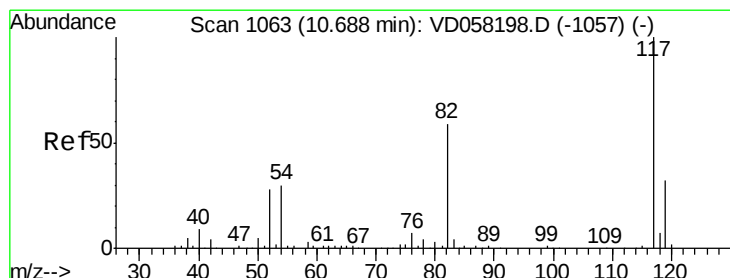
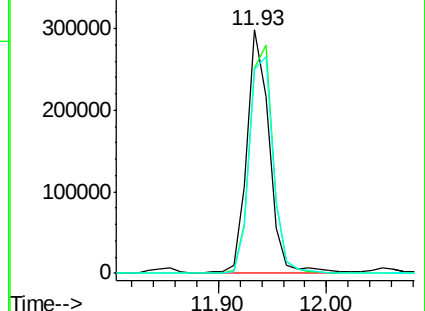
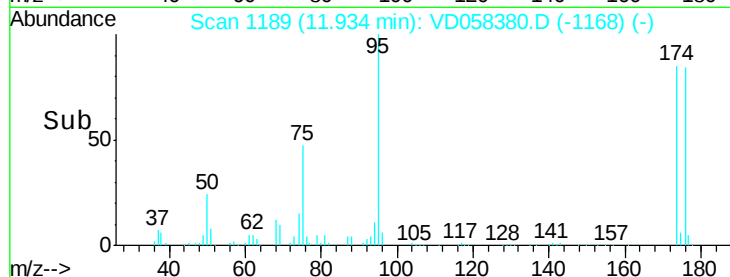
176 83.6 0.0 164.6



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: 10.69 min Scan# 1063

Delta R.T. 0.01 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

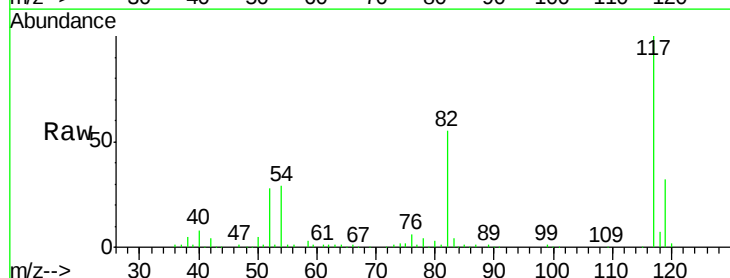
Tgt Ion: 117 Resp: 763907

Ion Ratio Lower Upper

117 100

82 54.7 47.0 70.6

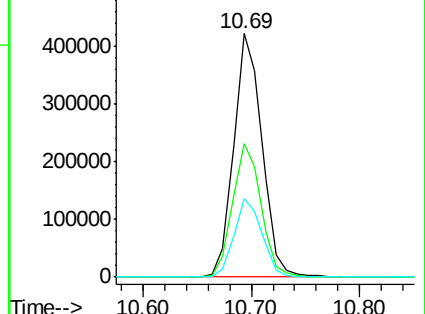
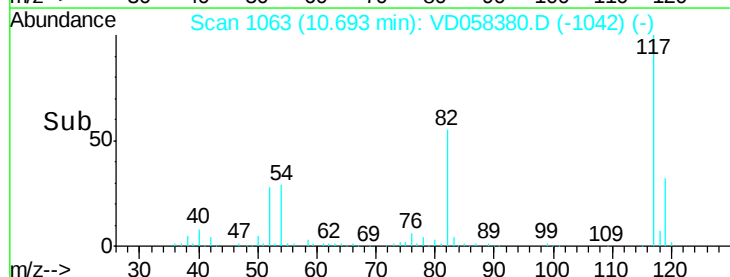
119 32.0 25.3 37.9

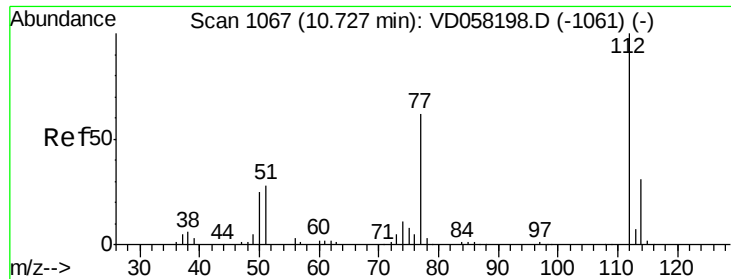


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

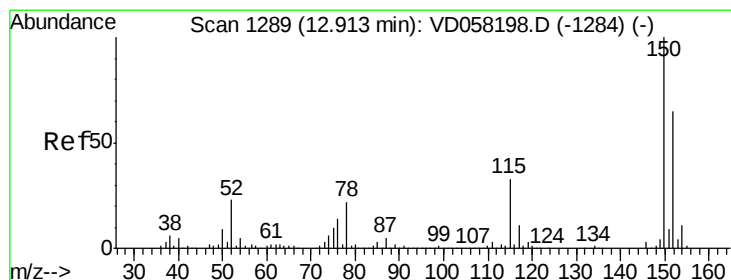
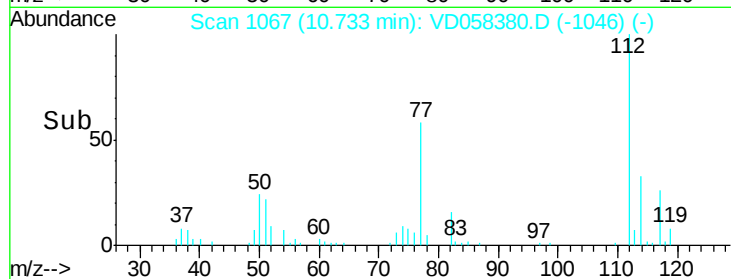
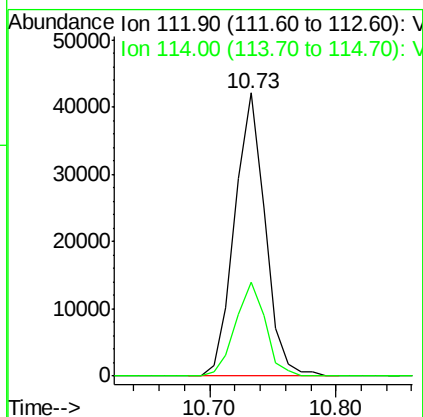
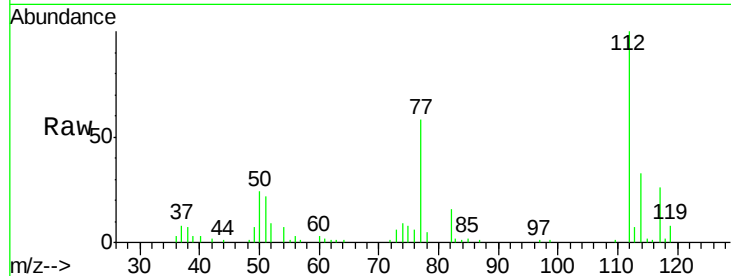




#65
Chlorobenzene
Concen: 4.905 ug/l
RT: 10.73 min Scan# 1067
Delta R.T. 0.01 min
Lab File: VD058380.D
Acq: 24 Jun 2018 19:11

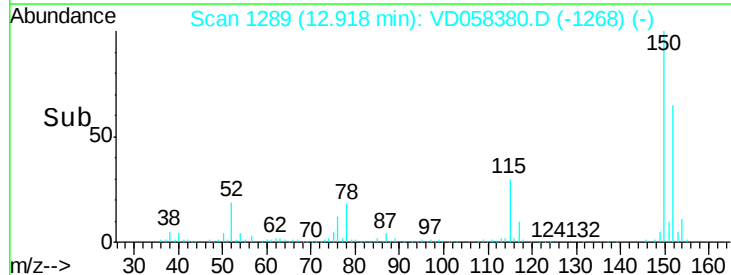
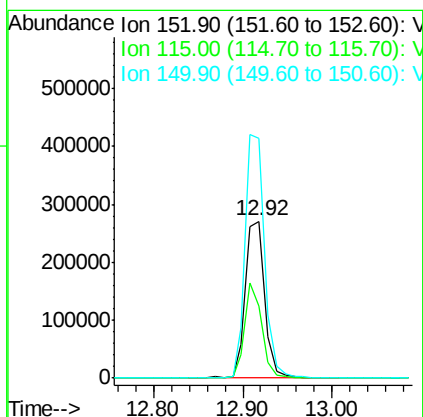
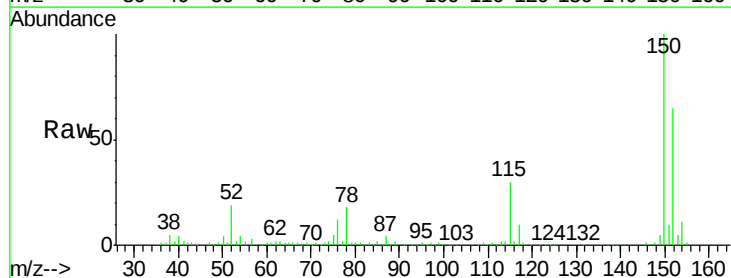
Instrument :
MSVOA_D
ClientSampleId :

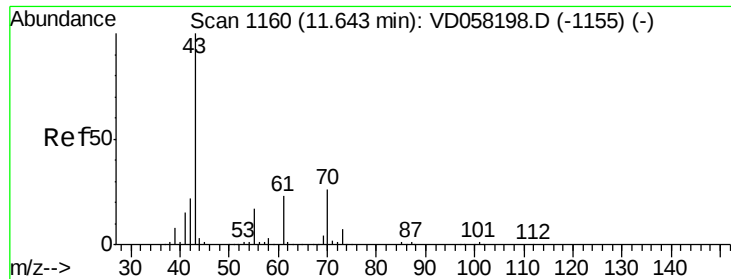
Tot Ion:112 Resp: 70083
Ion Ratio Lower Upper
112 100
114 33.3 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.92 min Scan# 1289
Delta R.T. 0.01 min
Lab File: VD058380.D
Acq: 24 Jun 2018 19:11

Tgt Ion:152 Resp: 407936
Ion Ratio Lower Upper
152 100
115 45.9 25.1 75.3
150 152.8 0.0 308.8





#74

N-amvl acetate

Concen: 2.892 ug/l

RT: 11.60 min Scan# 1155

Delta R.T. -0.04 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 27281

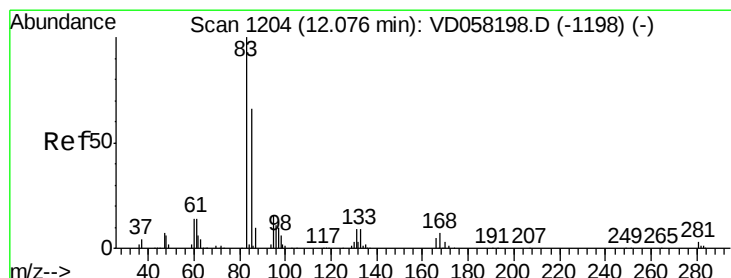
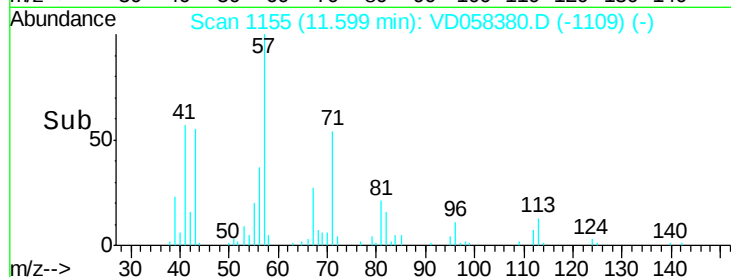
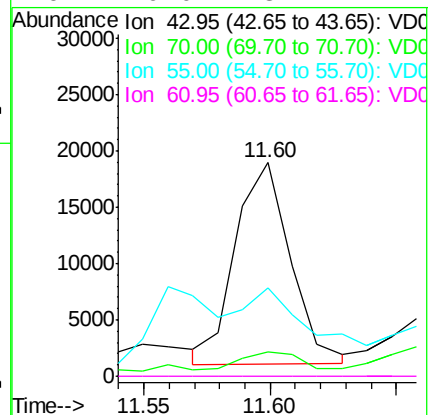
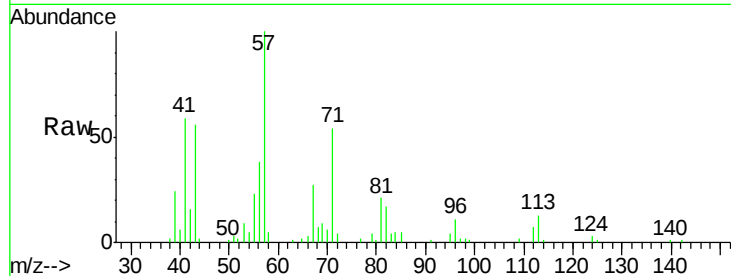
Ion Ratio Lower Upper

43 100

70 11.4 20.9 31.3#

55 41.6 13.5 20.3#

61 0.0 18.2 27.2#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.119 ug/l

RT: 12.09 min Scan# 1205

Delta R.T. 0.02 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

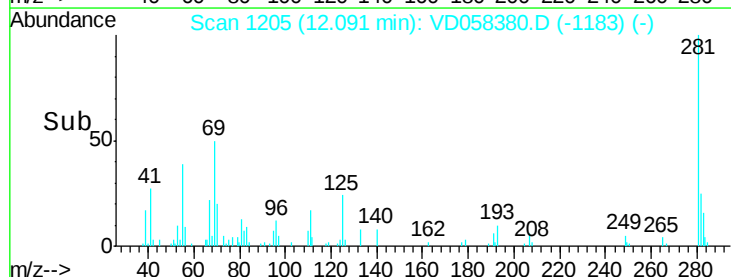
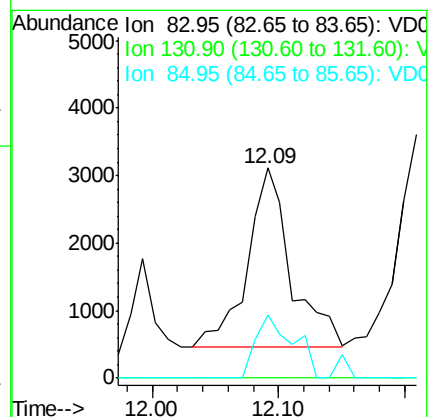
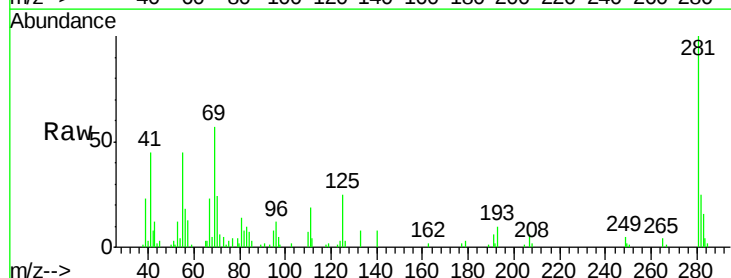
Tgt Ion: 83 Resp: 6353

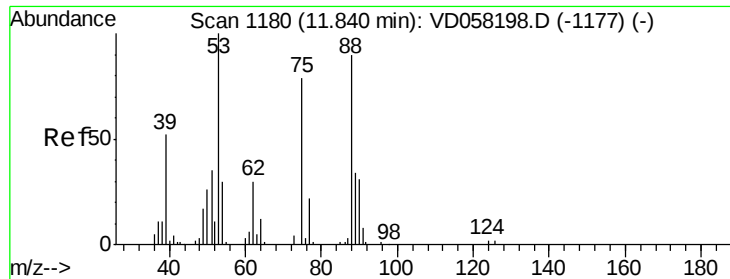
Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 30.3 33.1 99.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 132.613 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

Instrument :

MSVOA_D

ClientSampleId :

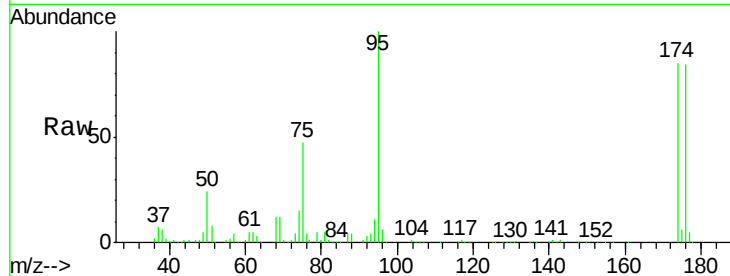
Tot Ion: 75 Resp: 192637

Ion Ratio Lower Upper

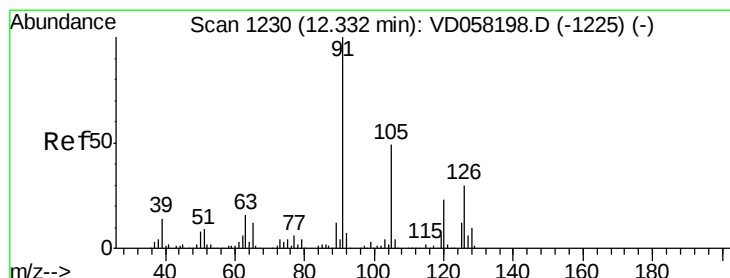
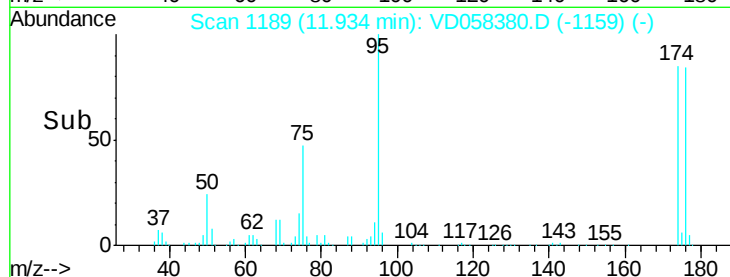
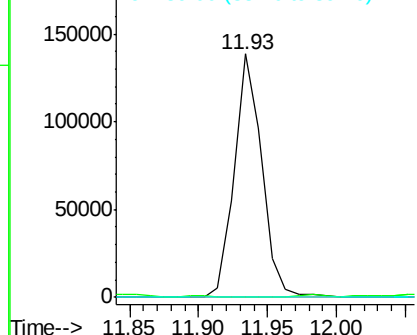
75 100

53 0.0 100.8 151.2#

89 0.0 34.6 52.0#



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: 12.33 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VD058380.D

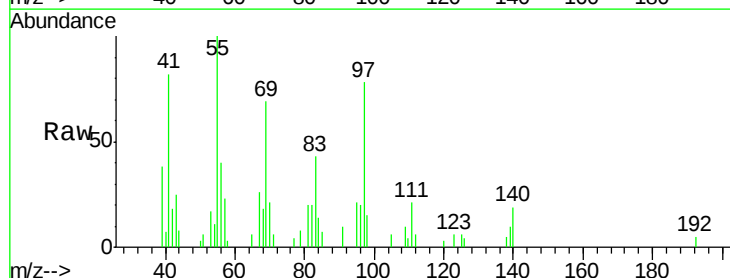
Acq: 24 Jun 2018 19:11

Tgt Ion: 91 Resp: 2629

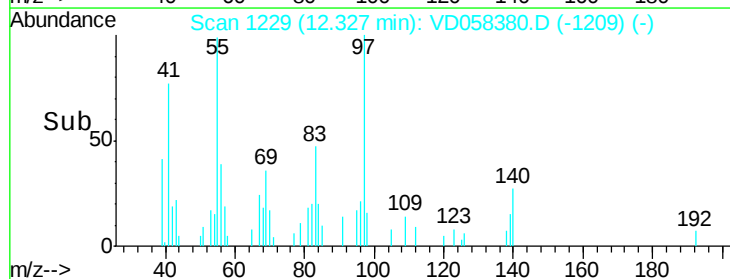
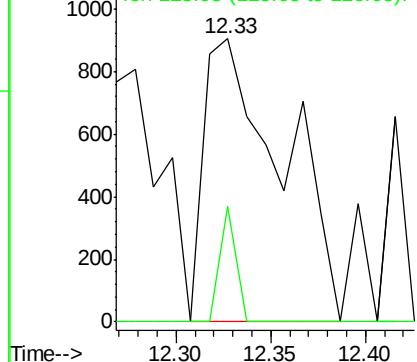
Ion Ratio Lower Upper

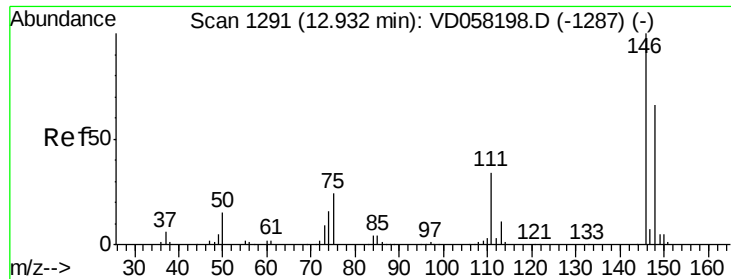
91 100

126 41.0 14.9 44.9



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





#88

1,4-Dichlorobenzene

Concen: 1.400 ug/l

RT: 12.93 min Scan# 1290

Delta R.T. -0.00 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

Instrument :

MSVOA_D

ClientSampleId :

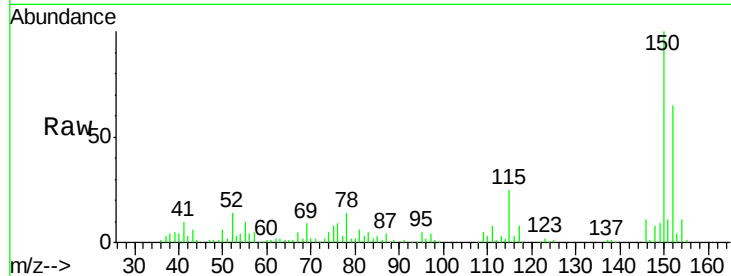
Tot Ion:146 Resp: 17363

Ion Ratio Lower Upper

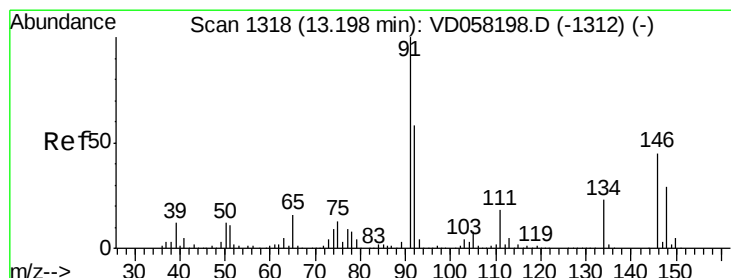
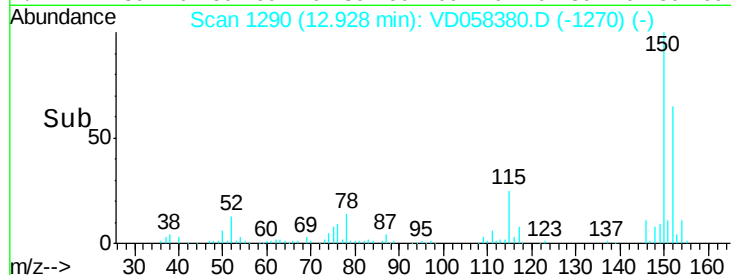
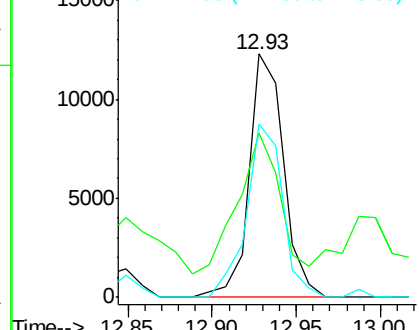
146 100

111 67.4 17.2 51.5#

148 71.1 33.1 99.3



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 2.526 ug/l

RT: 13.19 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD058380.D

Acq: 24 Jun 2018 19:11

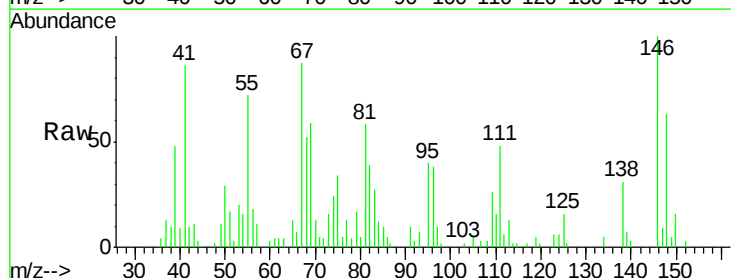
Tgt Ion:146 Resp: 27295

Ion Ratio Lower Upper

146 100

111 48.0 19.6 58.7

148 63.4 32.0 96.2



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

