

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102418\
 Data File : VD060190.D
 Acq On : 24 Oct 2018 19:07
 Operator : JC/SY
 Sample : J5651-01
 Misc : 5.86/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200030

Quant Time: Oct 25 03:36:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 06:56:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	950878	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	7.44	114	1513824	50.00	ug/l	0.02
63) Chlorobenzene-d5	11.28	117	727233	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.38	152	163529	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.78	65	585203	81.19	ug/l	0.02
Spiked Amount			Recovery	=	162.38%	
35) Dibromofluoromethane	6.32	113	692311	60.22	ug/l	0.02
Spiked Amount			Recovery	=	120.44%	
50) Toluene-d8	9.45	98	1076637	32.84	ug/l	0.01
Spiked Amount			Recovery	=	65.68%	
62) 4-Bromofluorobenzene	12.43	95	261260	21.29	ug/l	0.01
Spiked Amount			Recovery	=	42.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Trichlorofluoromethane	2.50	101	19565	2.476	ug/l	88
8) Diethyl Ether	2.82	74	2351	1.447	ug/l	72
11) Tert butyl alcohol	3.95	59	1634	3.161	ug/l #	74
16) Acetone	3.15	43	61472	47.001	ug/l	97
18) Methyl Acetate	3.54	43	34334	12.214	ug/l	98
20) Methylene Chloride	3.71	84	158717	12.163	ug/l	94
25) 2-Butanone	5.61	43	14660	4.487	ug/l #	90
29) Tetrahydrofuran	5.95	42	3300	1.739	ug/l #	80
31) Cyclohexane	6.40	56	17541	1.123	ug/l #	1
36) 1,1-Dichloropropene	6.40	75	70421	4.868	ug/l #	47
37) Ethyl Acetate	5.61	43	14660	1.527	ug/l #	71
38) Carbon Tetrachloride	6.40	117	74474	5.672	ug/l #	15
76) 1,2,3-Trichloropropane	12.43	75	108527	46.083	ug/l #	45
81) trans-1,4-Dichloro-2-buten	12.43	75	109108	164.883	ug/l #	13
86) p-Isopropyltoluene	13.35	119	18015	1.939	ug/l	96
95) Naphthalene	14.97	128	6837	1.183	ug/l #	64
96) 1,2,3-Trichlorobenzene	15.10	180	24469	7.216	ug/l #	19

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 495

Delta R.T. 0.01 min

Lab File: VD060190.D

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MSVOA_D

ClientSampleId :

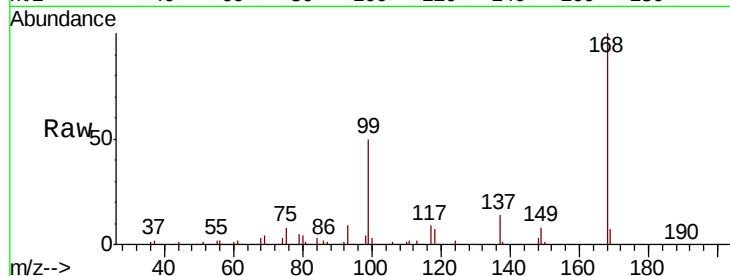
RBR-200030

Tot Ion:168 Resp: 950878

Ion Ratio Lower Upper

168 100

99 50.3 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

6.40

400000

300000

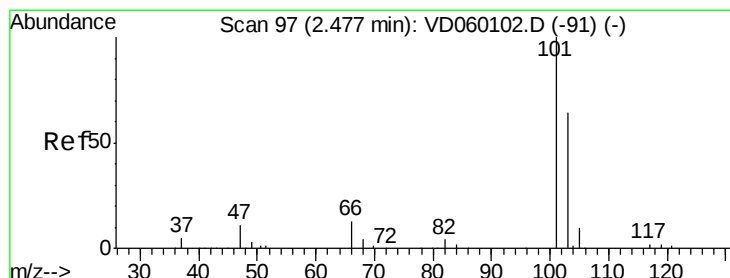
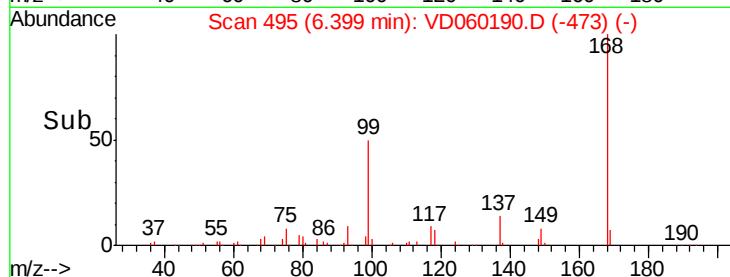
200000

100000

0

Time-->

6.30 6.40 6.50 6.60



#7

Trichlorofluoromethane

Concen: 2.476 ug/l

RT: 2.50 min Scan# 99

Delta R.T. 0.02 min

Lab File: VD060190.D

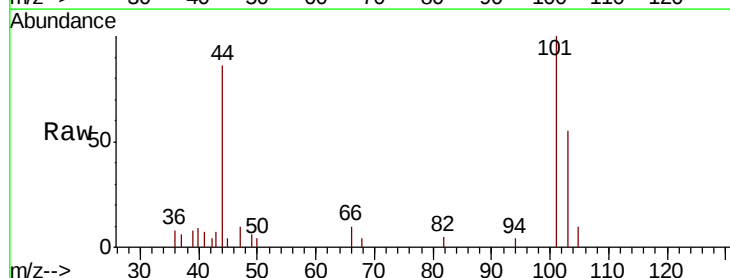
Acq: 24 Oct 2018 19:07

Tgt Ion:101 Resp: 19565

Ion Ratio Lower Upper

101 100

103 55.3 51.5 77.3



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V

2.50

10000

8000

6000

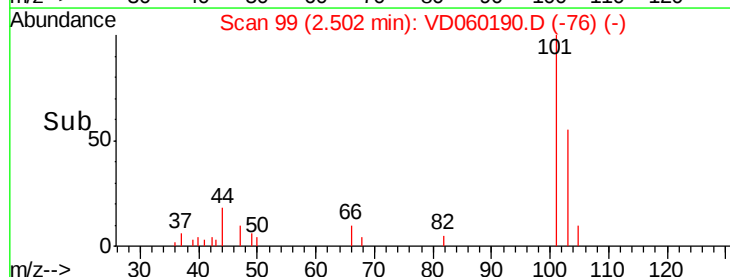
4000

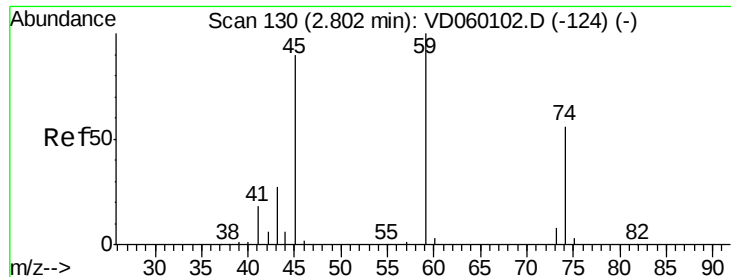
2000

0

Time-->

2.45 2.50 2.55 2.60





#8

Diethyl Ether

Concen: 1.447 ug/l

RT: 2.82 min Scan# 131

Delta R.T. 0.01 min

Lab File: VD060190.D

Acq: 24 Oct 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

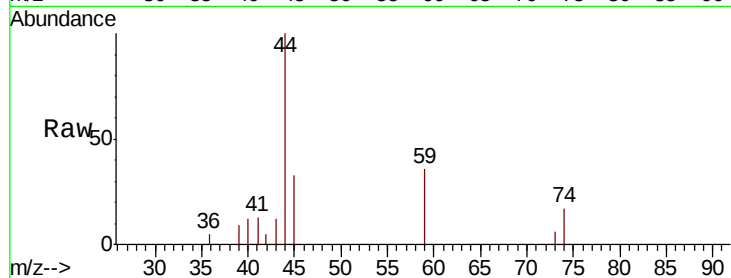
RBR-200030

Tot Ion: 74 Resp: 2351

Ion Ratio Lower Upper

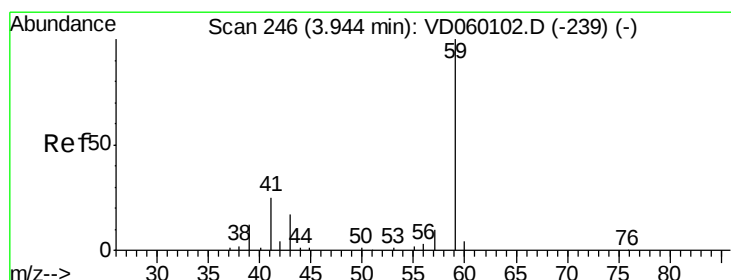
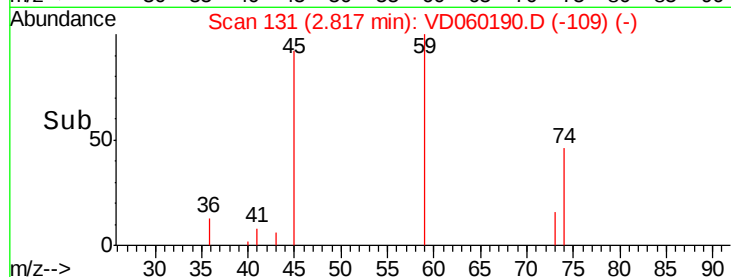
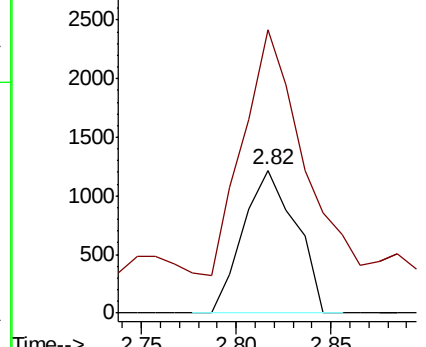
74 100

45 198.0 80.3 241.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 3.161 ug/l

RT: 3.95 min Scan# 246

Delta R.T. 0.00 min

Lab File: VD060190.D

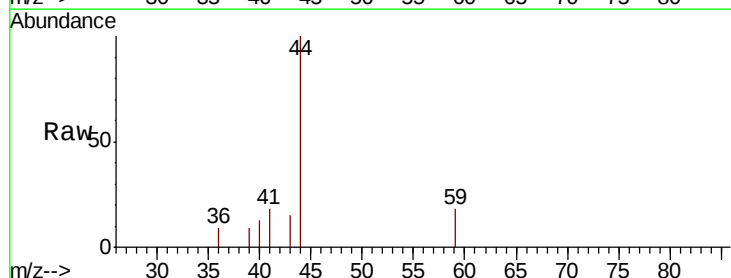
Acq: 24 Oct 2018 19:07

Tgt Ion: 59 Resp: 1634

Ion Ratio Lower Upper

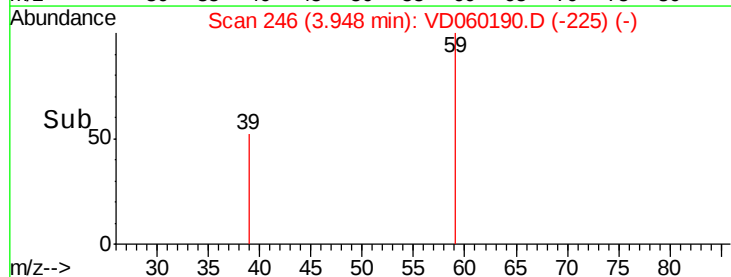
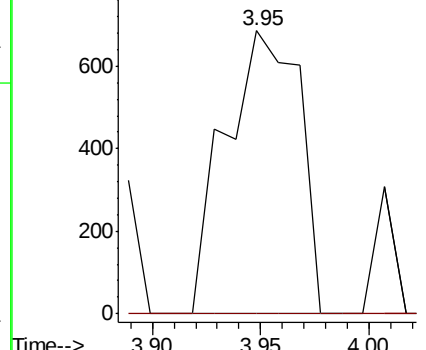
59 100

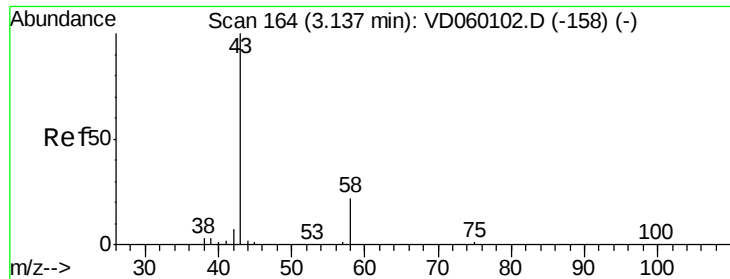
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 47.001 ug/l

RT: 3.15 min Scan# 165

Delta R.T. 0.01 min

Lab File: VD060190.D

Acq: 24 Oct 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

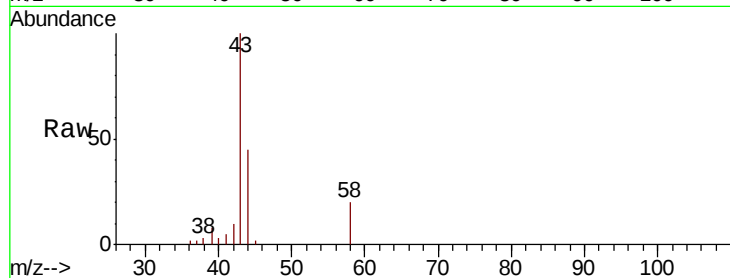
RBR-200030

Tot Ion: 43 Resp: 61472

Ion Ratio Lower Upper

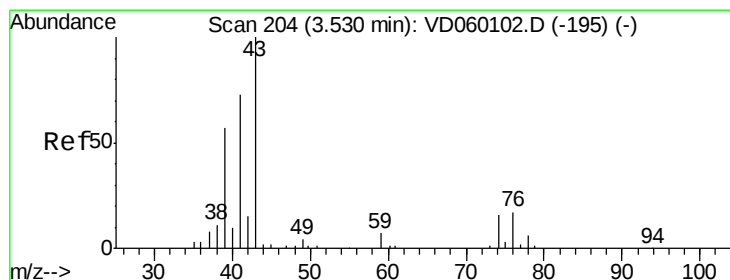
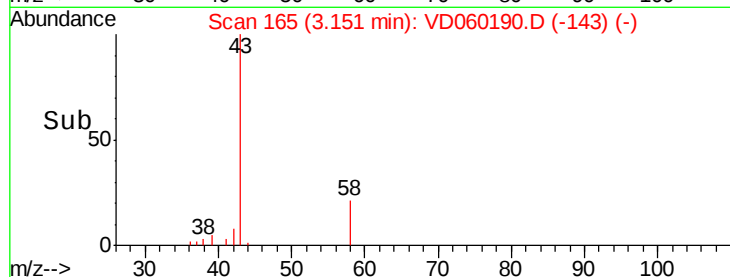
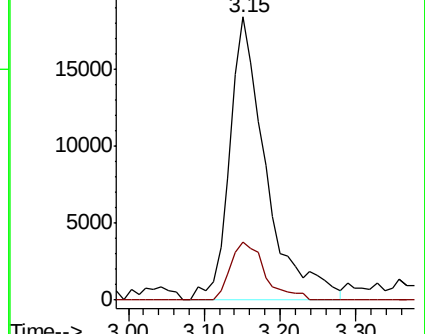
43 100

58 20.5 17.7 26.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 12.214 ug/l

RT: 3.54 min Scan# 205

Delta R.T. 0.01 min

Lab File: VD060190.D

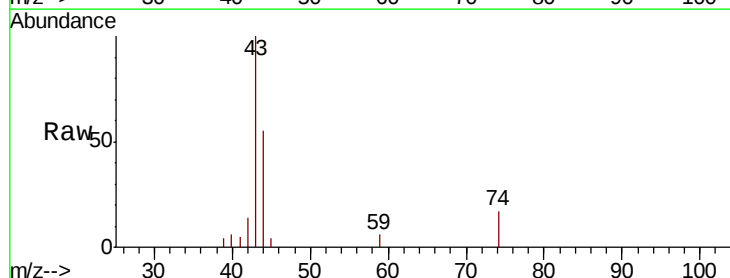
Acq: 24 Oct 2018 19:07

Tgt Ion: 43 Resp: 34334

Ion Ratio Lower Upper

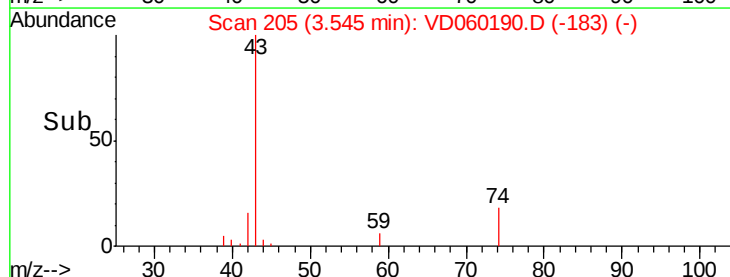
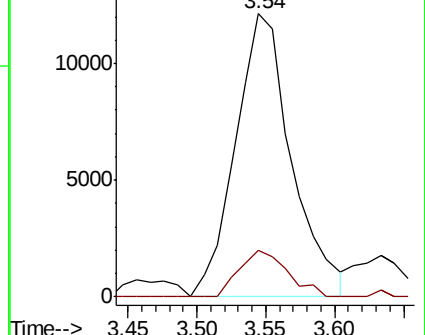
43 100

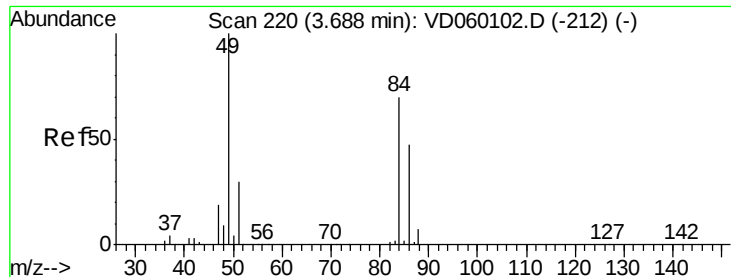
74 16.7 12.6 19.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

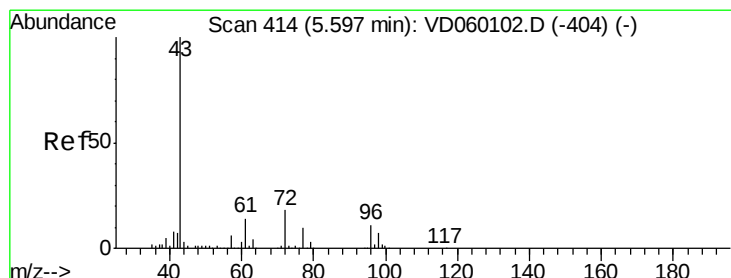
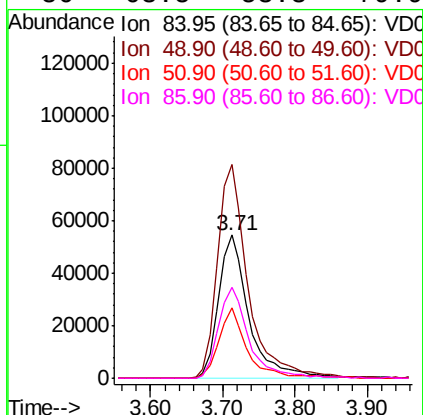
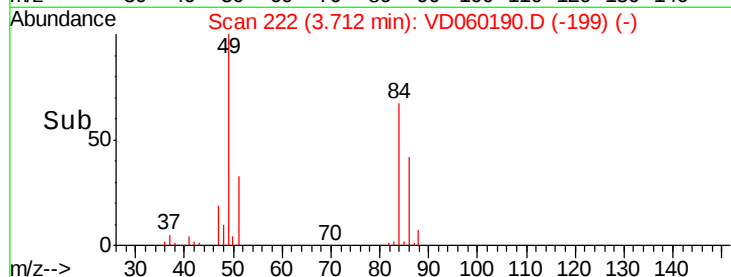
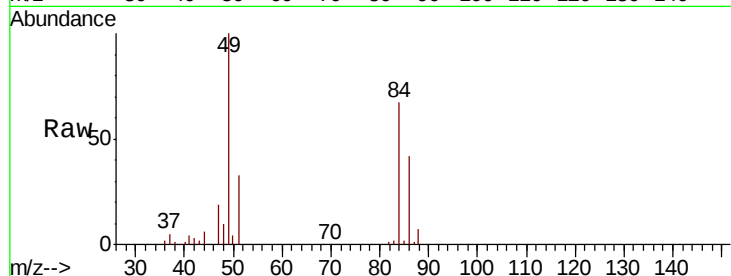




#20
Methvlene Chloride
Concen: 12.163 ug/l
RT: 3.71 min Scan# 222
Delta R.T. 0.03 min
Lab File: VD060190.D
Acq: 24 Oct 2018 19:07

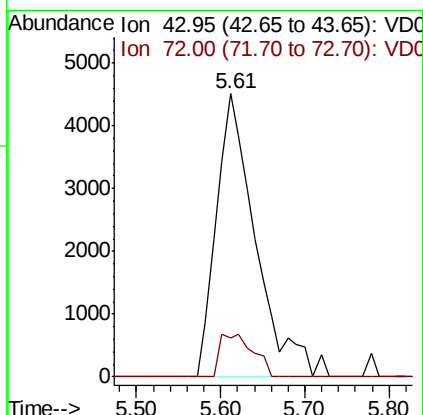
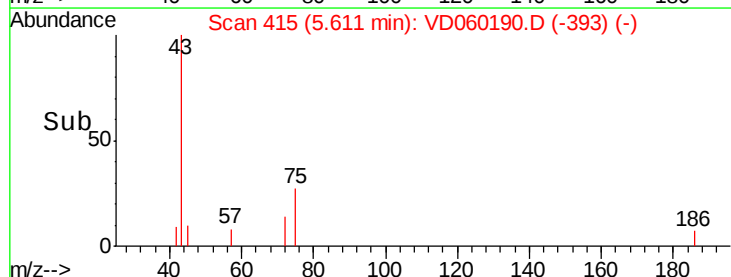
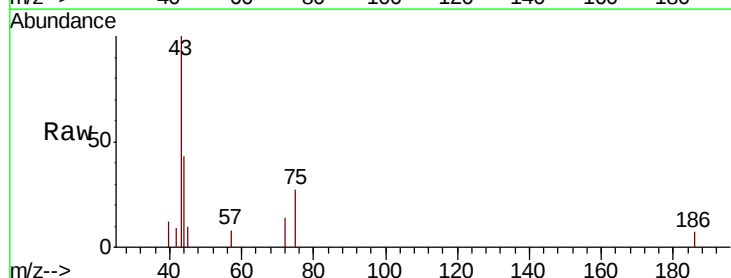
Instrument :
MSVOA_D
ClientSampleId :
RBR-200030

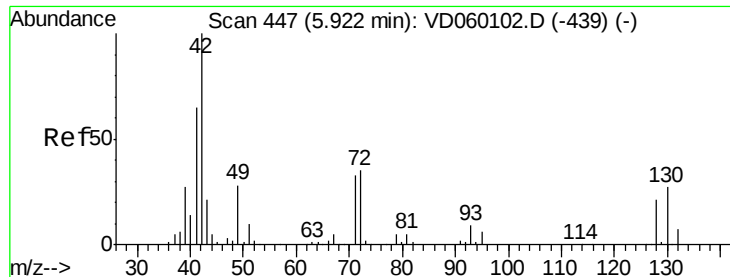
Tot Ion: 84 Resp: 158717
Ion Ratio Lower Upper
84 100
49 149.4 114.6 172.0
51 49.2 33.8 50.8
86 63.5 53.3 79.9



#25
2-Butanone
Concen: 4.487 ug/l
RT: 5.61 min Scan# 415
Delta R.T. 0.01 min
Lab File: VD060190.D
Acq: 24 Oct 2018 19:07

Tgt Ion: 43 Resp: 14660
Ion Ratio Lower Upper
43 100
72 13.6 14.5 21.7#





#29

Tetrahydrofuran

Concen: 1.739 ug/l

RT: 5.95 min Scan# 449

Delta R.T. 0.02 min

Lab File: VD060190.D

Acq: 24 Oct 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

RBR-200030

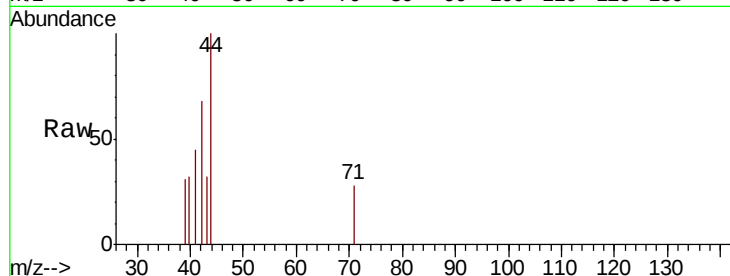
Tot Ion: 42 Resp: 3300

Ion Ratio Lower Upper

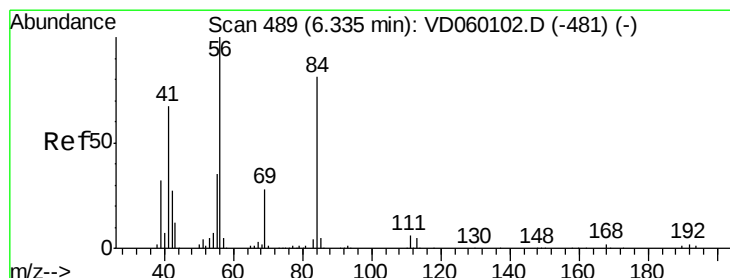
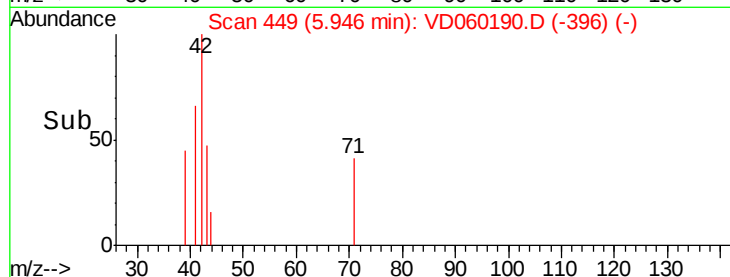
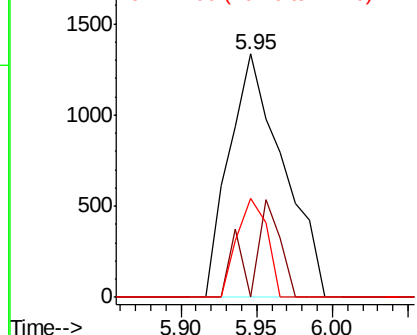
42 100

72 22.0 26.9 40.3#

71 22.6 26.7 40.1#



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: 1.123 ug/l

RT: 6.40 min Scan# 495

Delta R.T. 0.06 min

Lab File: VD060190.D

Acq: 24 Oct 2018 19:07

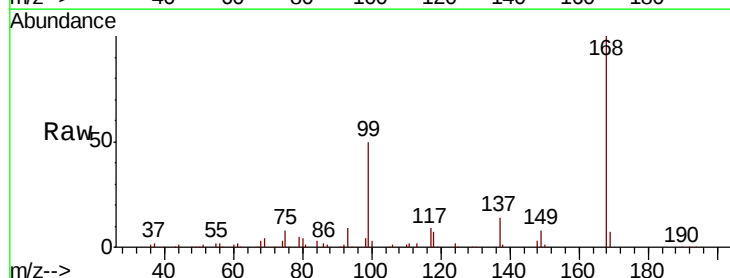
Tgt Ion: 56 Resp: 17541

Ion Ratio Lower Upper

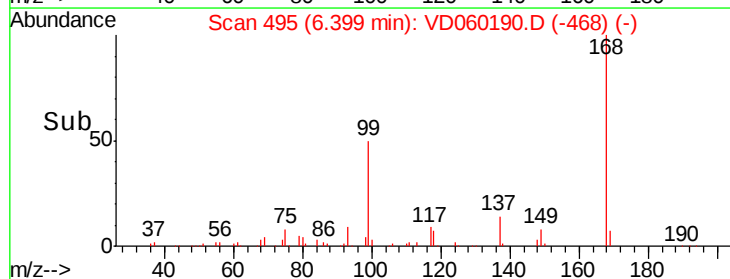
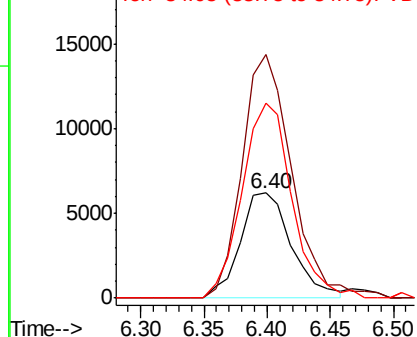
56 100

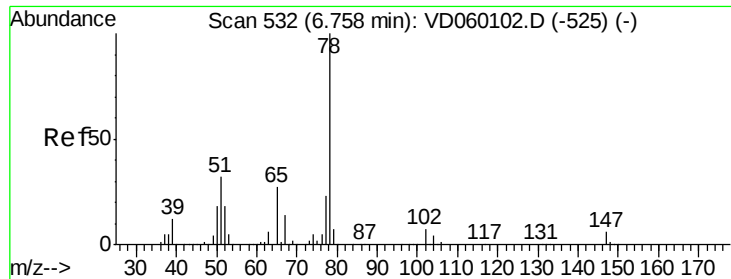
69 231.7 22.8 34.2#

84 185.9 64.9 97.3#



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

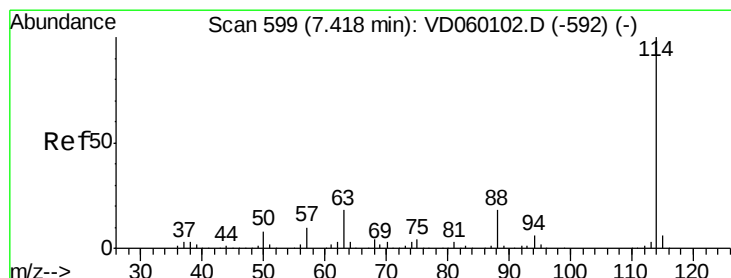
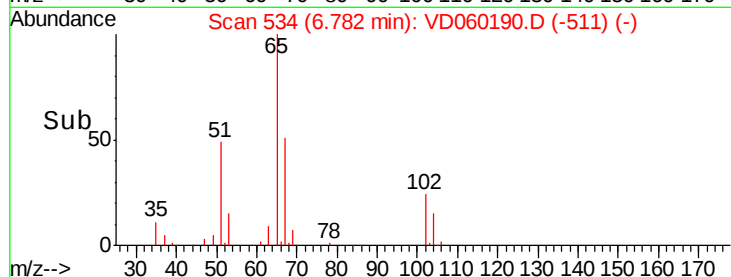
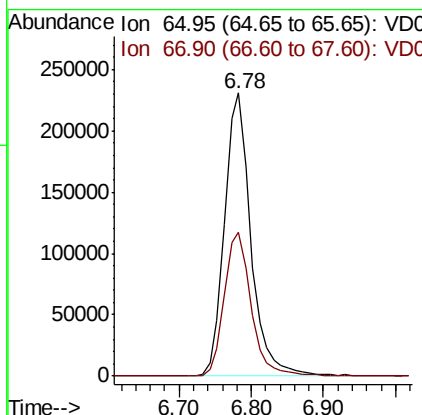
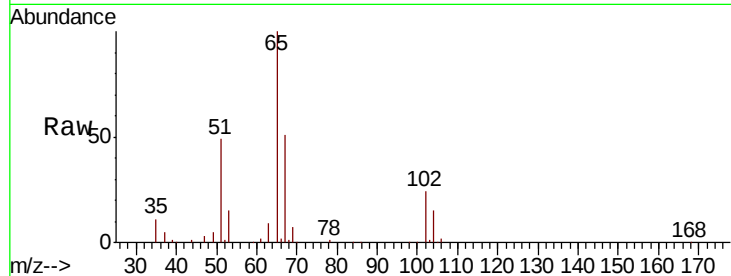




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.78 min Scan# 534
 Delta R.T. 0.02 min
 Lab File: VD060190.D
 Acq: 24 Oct 2018 19:07

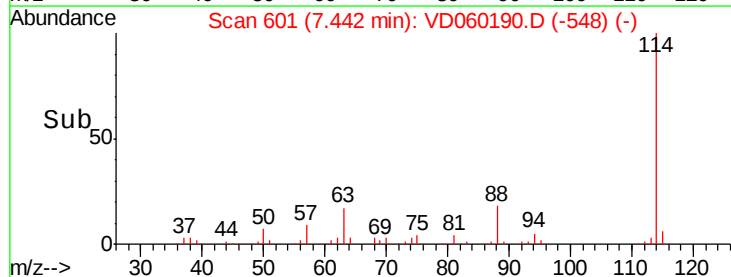
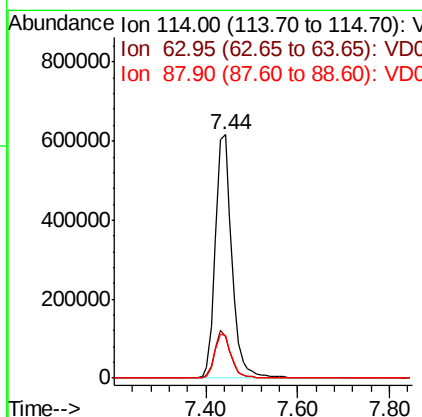
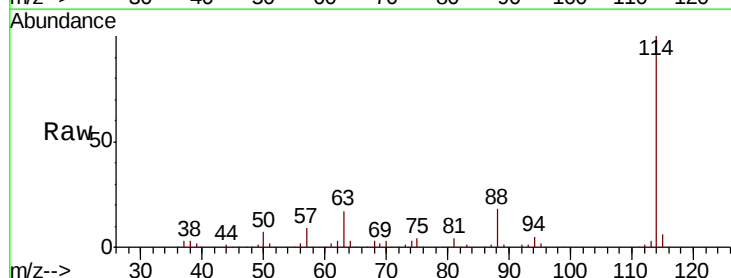
Instrument :
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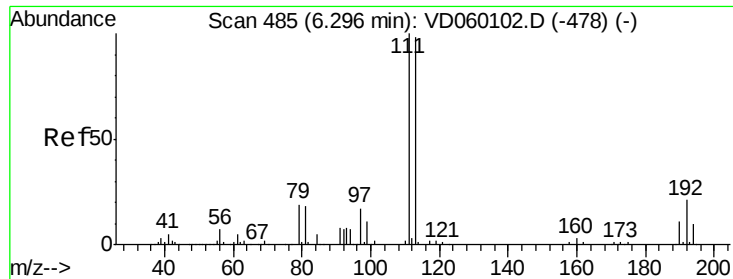
Tot Ion: 65 Resp: 585203
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 601
 Delta R.T. 0.02 min
 Lab File: VD060190.D
 Acq: 24 Oct 2018 19:07

Tgt Ion: 114 Resp: 1513824
 Ion Ratio Lower Upper
 114 100
 63 16.8 0.0 36.0
 88 17.6 0.0 36.2

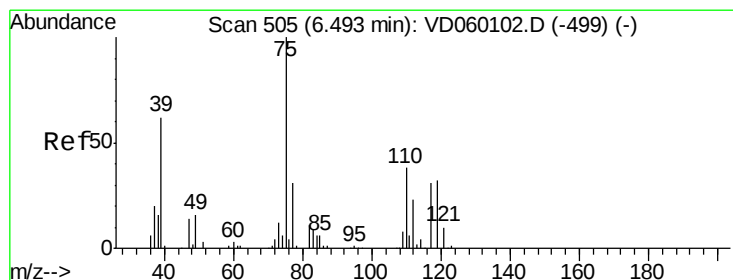
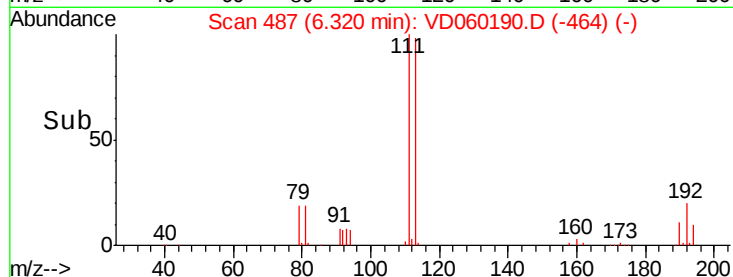
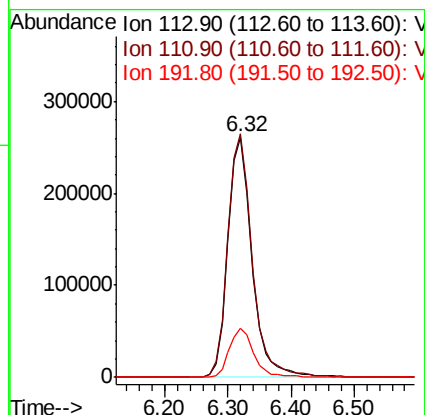
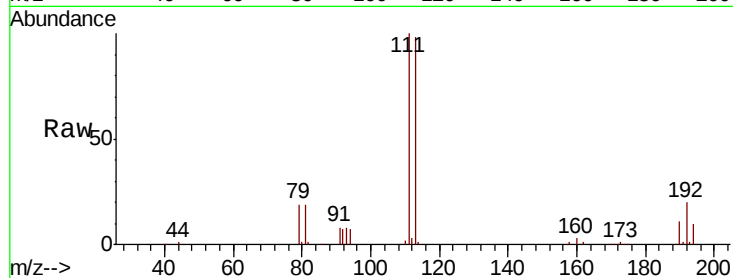




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.32 min Scan# 487
Delta R.T. 0.02 min
Lab File: VD060190.D
Acq: 24 Oct 2018 19:07

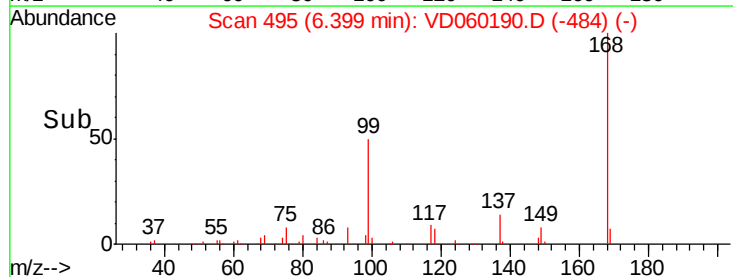
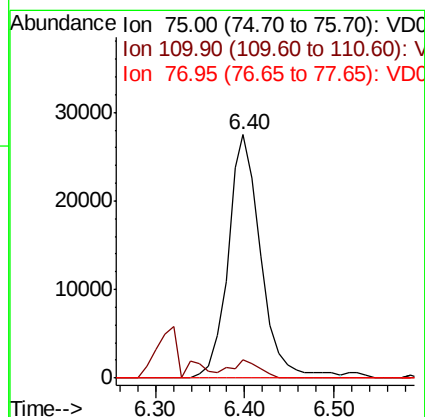
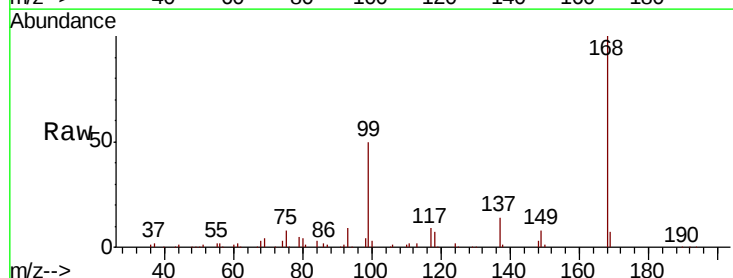
Instrument :
MSVOA_D
ClientSampleId :
RBR-200030

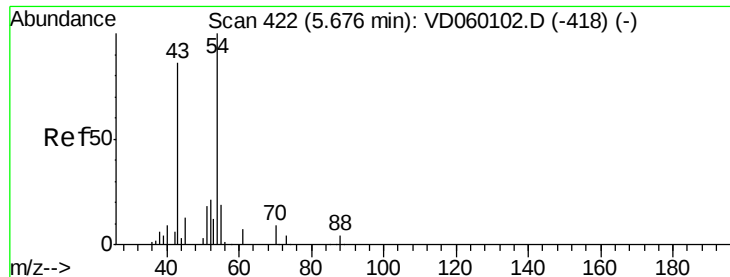
Tot Ion:113 Resp: 692311
Ion Ratio Lower Upper
113 100
111 101.5 81.5 122.3
192 20.7 17.4 26.0



#36
1,1-Dichloropropene
Concen: 4.868 ug/l
RT: 6.40 min Scan# 495
Delta R.T. -0.09 min
Lab File: VD060190.D
Acq: 24 Oct 2018 19:07

Tgt Ion: 75 Resp: 70421
Ion Ratio Lower Upper
75 100
110 7.3 19.0 57.0#
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 1.527 ug/l

RT: 5.61 min Scan# 415

Delta R.T. -0.06 min

Lab File: VD060190.D

Acq: 24 Oct 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

RBR-200030

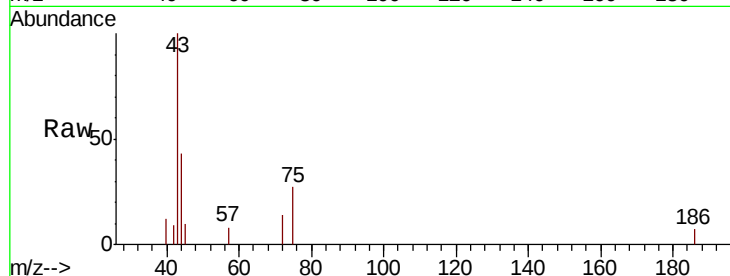
Tot Ion: 43 Resp: 14660

Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

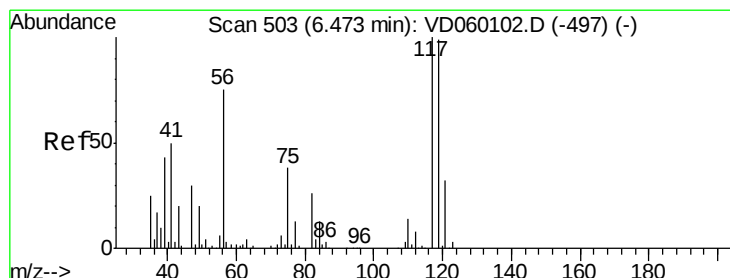
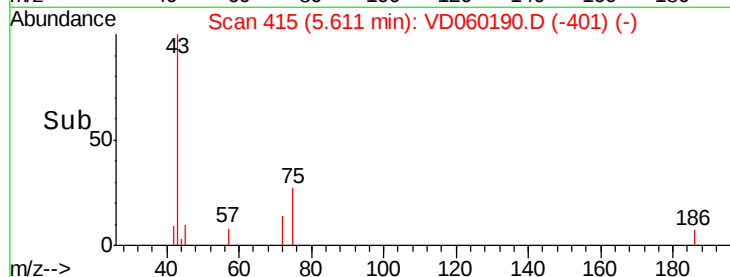
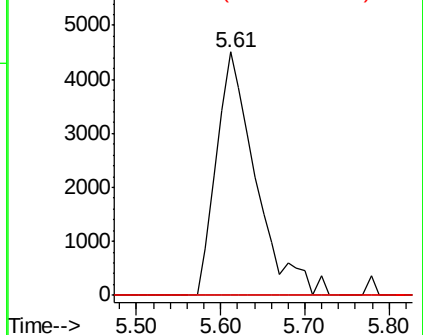
70 0.0 6.3 9.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 5.672 ug/l

RT: 6.40 min Scan# 495

Delta R.T. -0.07 min

Lab File: VD060190.D

Acq: 24 Oct 2018 19:07

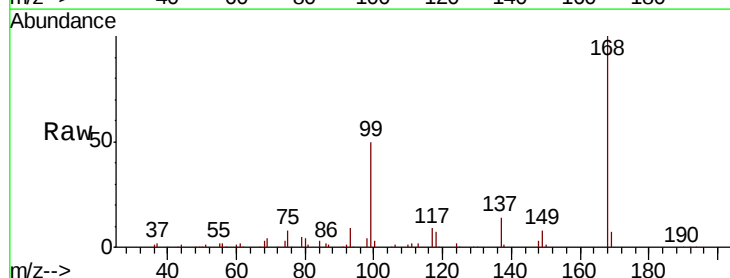
Tgt Ion: 117 Resp: 74474

Ion Ratio Lower Upper

117 100

119 4.2 77.8 116.6#

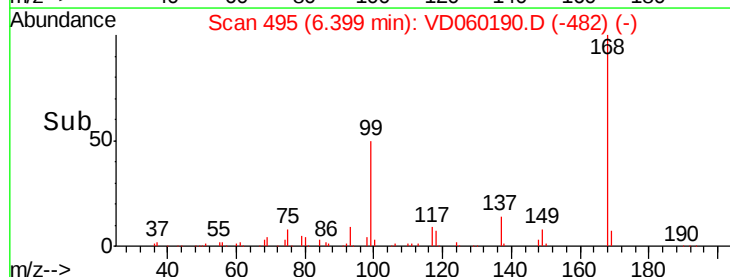
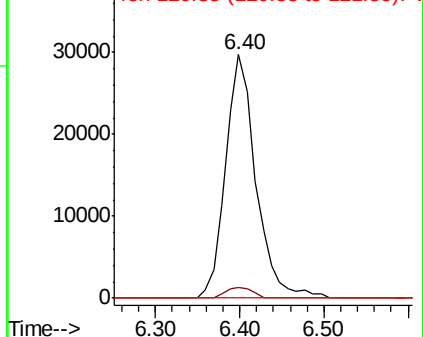
121 0.0 24.8 37.2#

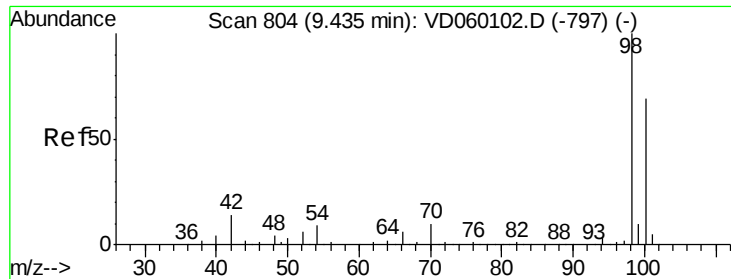


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

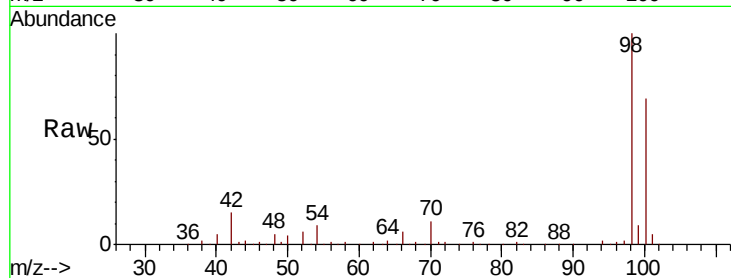




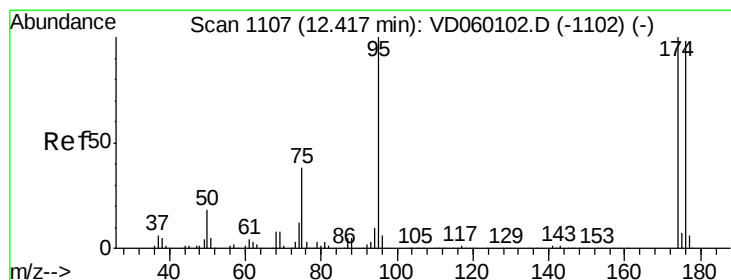
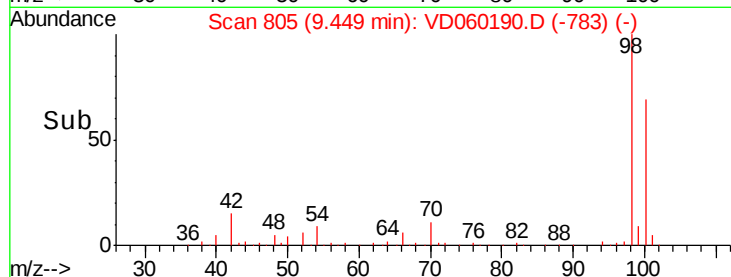
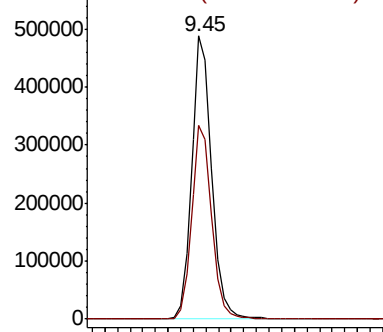
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 805
Delta R.T. 0.01 min
Lab File: VD060190.D
Acq: 24 Oct 2018 19:07

Instrument :
MSVOA_D
ClientSampleId :
RBR-200030

Tot Ion: 98 Resp: 1076637
Ion Ratio Lower Upper
98 100
100 68.5 55.4 83.0

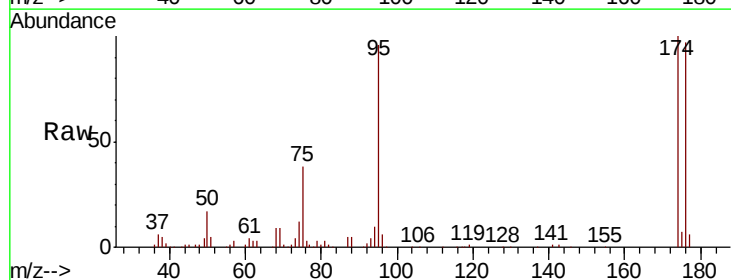


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

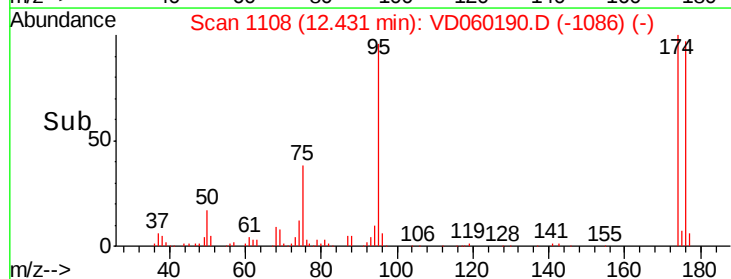
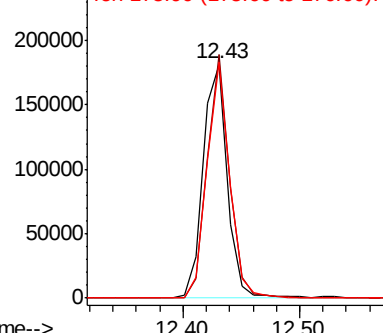


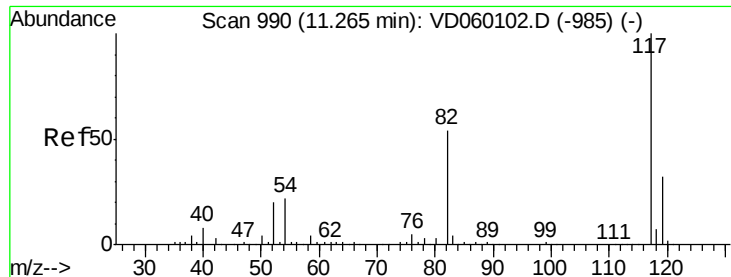
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.43 min Scan# 1108
Delta R.T. 0.01 min
Lab File: VD060190.D
Acq: 24 Oct 2018 19:07

Tgt Ion: 95 Resp: 261260
Ion Ratio Lower Upper
95 100
174 104.3 0.0 200.2
176 100.8 0.0 195.6



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

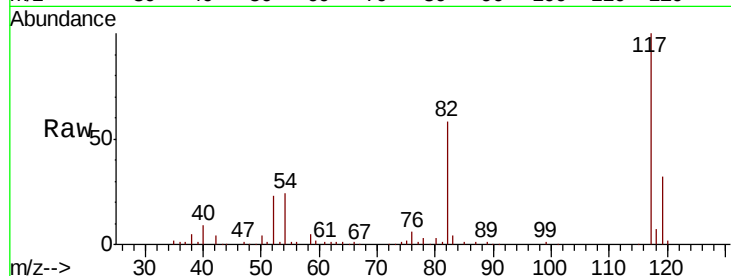




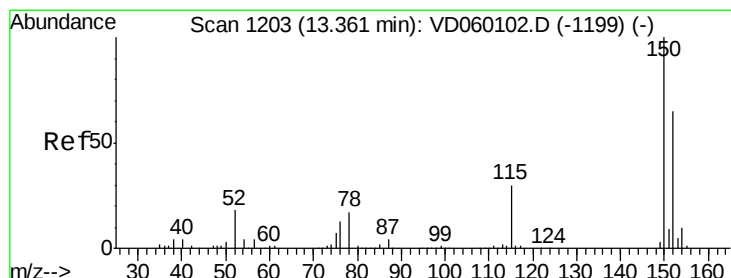
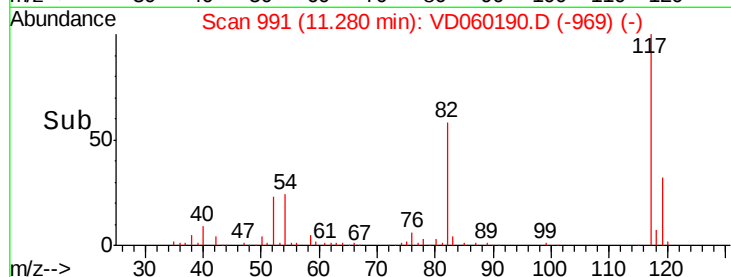
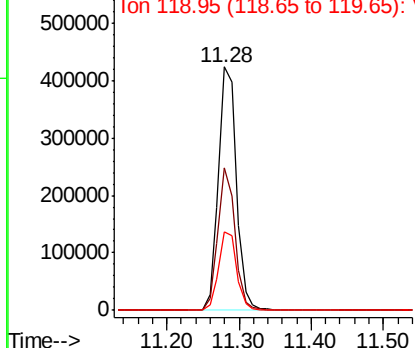
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD060190.D
Acq: 24 Oct 2018 19:07

Instrument :
MSVOA_D
ClientSampleId :
RBR-200030

Tot Ion:117 Resp: 727233
Ion Ratio Lower Upper
117 100
82 58.4 43.4 65.2
119 32.2 26.0 39.0

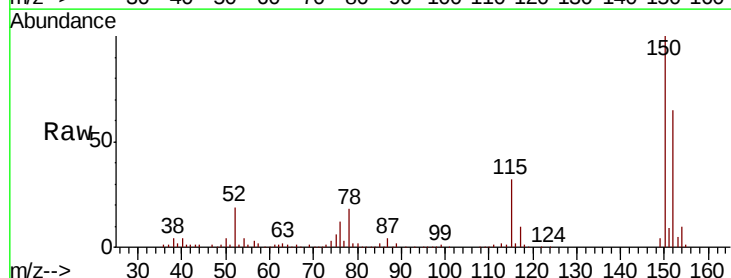


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

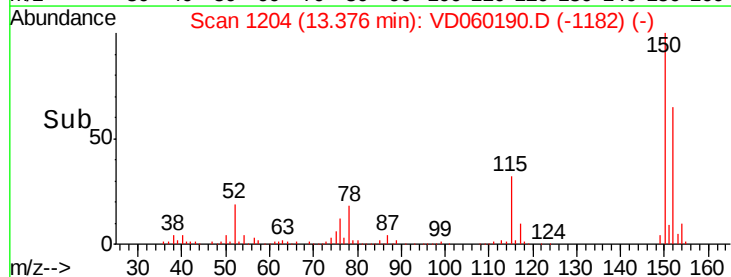
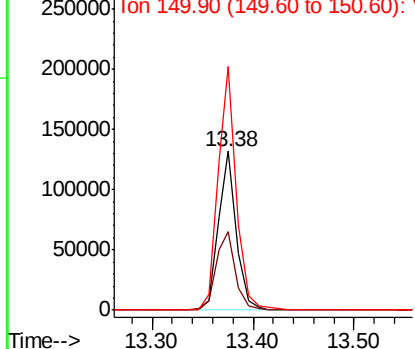


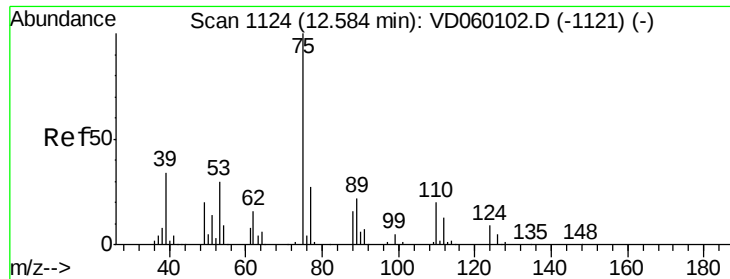
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.38 min Scan# 1204
Delta R.T. 0.01 min
Lab File: VD060190.D
Acq: 24 Oct 2018 19:07

Tgt Ion:152 Resp: 163529
Ion Ratio Lower Upper
152 100
115 49.3 27.1 81.2
150 153.6 0.0 311.8



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





#76

1,2,3-Trichloropropane

Concen: 46.083 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.15 min

Lab File: VD060190.D

Acq: 24 Oct 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

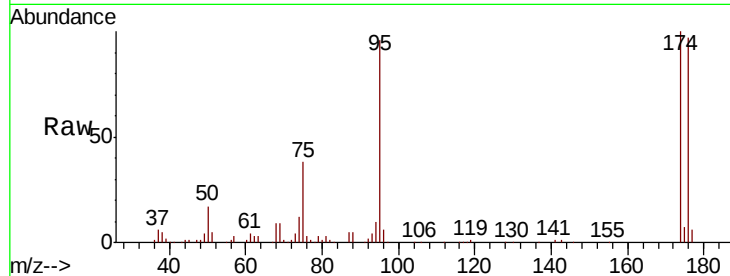
RBR-200030

Tot Ion: 75 Resp: 108527

Ion Ratio Lower Upper

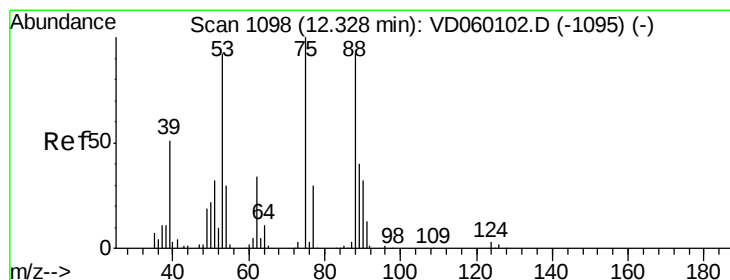
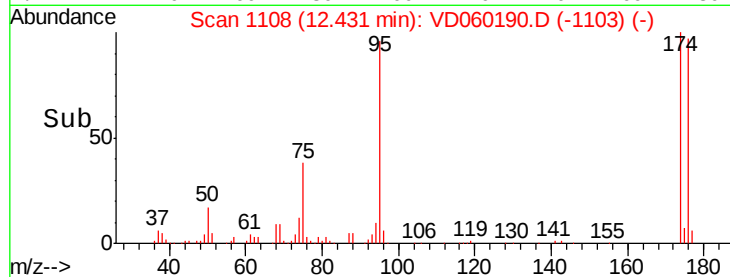
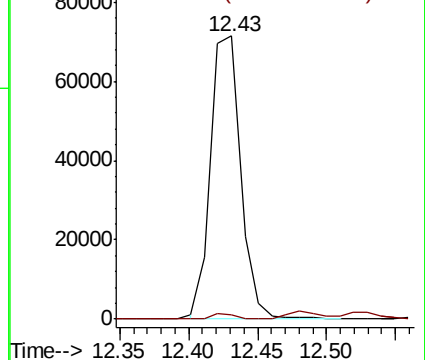
75 100

77 1.6 16.3 48.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 164.883 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.10 min

Lab File: VD060190.D

Acq: 24 Oct 2018 19:07

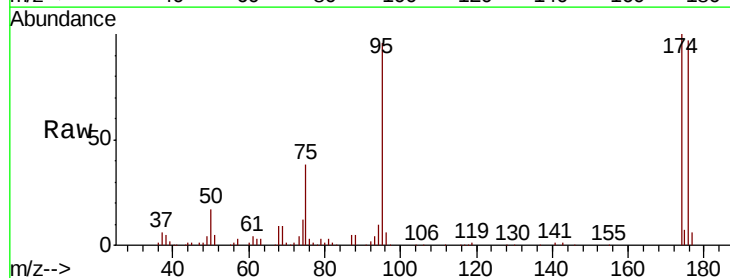
Tgt Ion: 75 Resp: 109108

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.6#

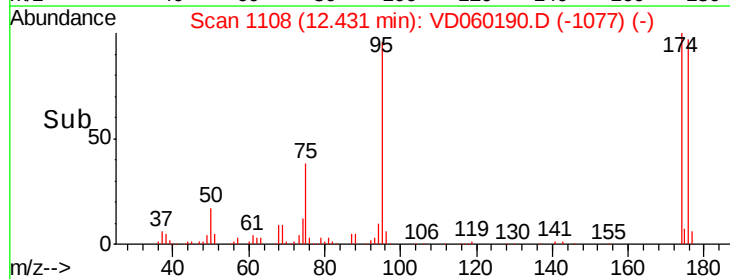
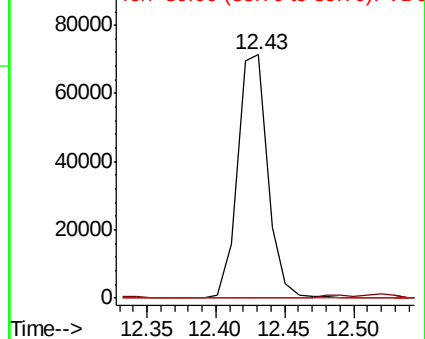
89 0.0 32.0 48.0#

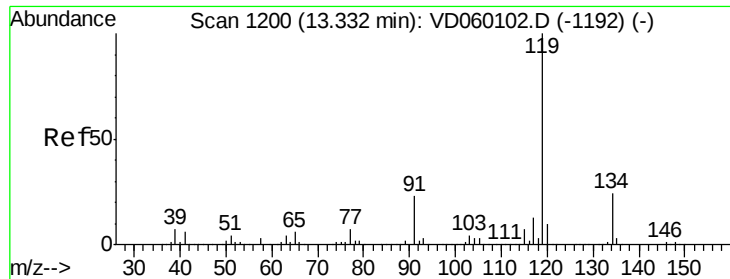


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#86

p-Isopropyltoluene

Concen: 1.939 ug/l

RT: 13.35 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VD060190.D

Acq: 24 Oct 2018 19:07

Instrument :

MSVOA_D

ClientSampleId :

RBR-200030

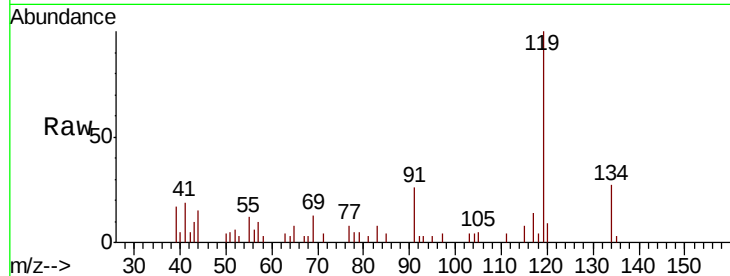
Tot Ion:119 Resp: 18015

Ion Ratio Lower Upper

119 100

134 26.5 12.3 36.8

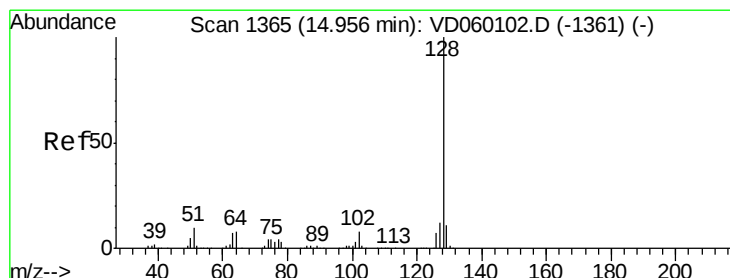
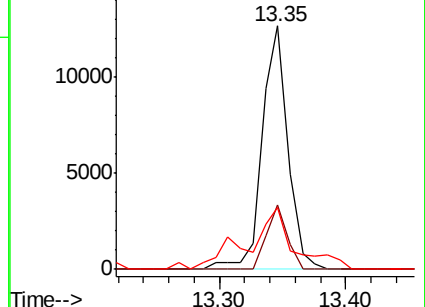
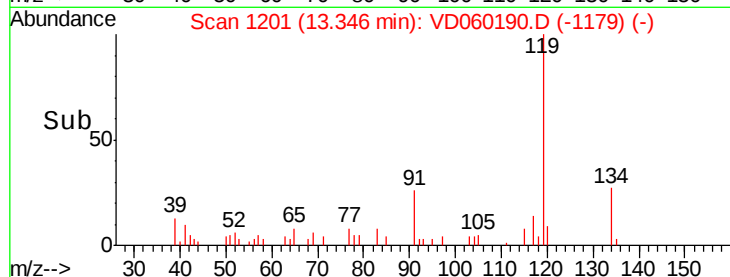
91 25.6 11.8 35.4



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V



#95

Naphthalene

Concen: 1.183 ug/l

RT: 14.97 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VD060190.D

Acq: 24 Oct 2018 19:07

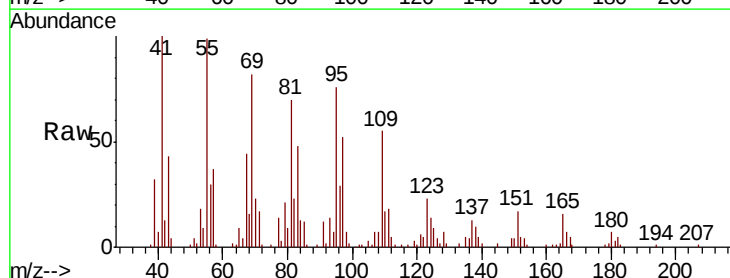
Tgt Ion:128 Resp: 6837

Ion Ratio Lower Upper

128 100

127 29.5 9.9 14.9#

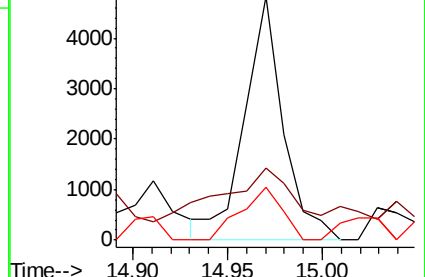
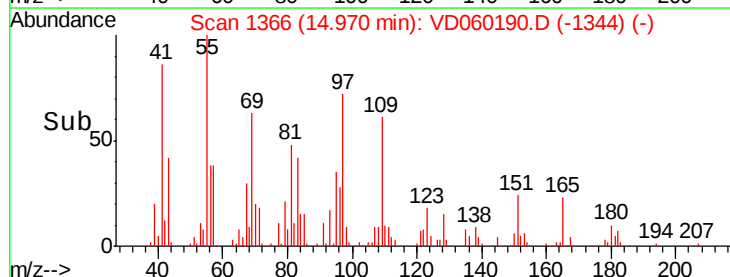
129 21.5 8.8 13.2#

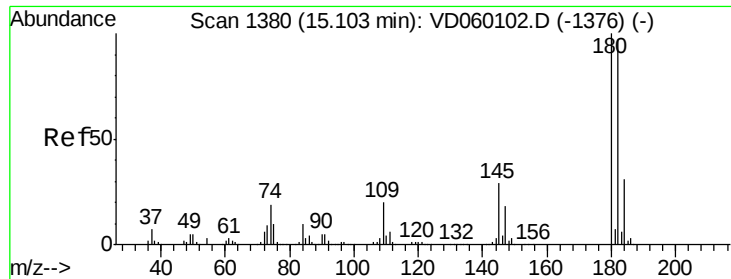


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 7.216 ug/l
 RT: 15.10 min Scan# 1379
 Delta R.T. -0.01 min
 Lab File: VD060190.D
 Acq: 24 Oct 2018 19:07

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200030

Tot Ion:180 Resp: 24469
 Ion Ratio Lower Upper
 180 100
 182 6.2 48.4 145.0#
 145 6.7 14.5 43.6#

