

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD103118\
 Data File : VD060253.D
 Acq On : 31 Oct 2018 20:38
 Operator : VA/AP
 Sample : J5377-01
 Misc : 5.63q/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200036

Quant Time: Oct 31 23:55:47 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	6.41	168	1461465	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	7.45	114	2120305	50.00	ug/l	0.03
63) Chlorobenzene-d5	11.28	117	1685808	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	13.38	152	814269	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.79	65	547068	49.38	ug/l	0.03
Spiked Amount	50.000		Recovery	=	98.76%	
35) Dibromofluoromethane	6.34	113	667180	41.44	ug/l	0.04
Spiked Amount	50.000		Recovery	=	82.88%	
50) Toluene-d8	9.46	98	1862904	40.57	ug/l	0.03
Spiked Amount	50.000		Recovery	=	81.14%	
62) 4-Bromofluorobenzene	12.43	95	678064	39.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.88%	

Target Compounds

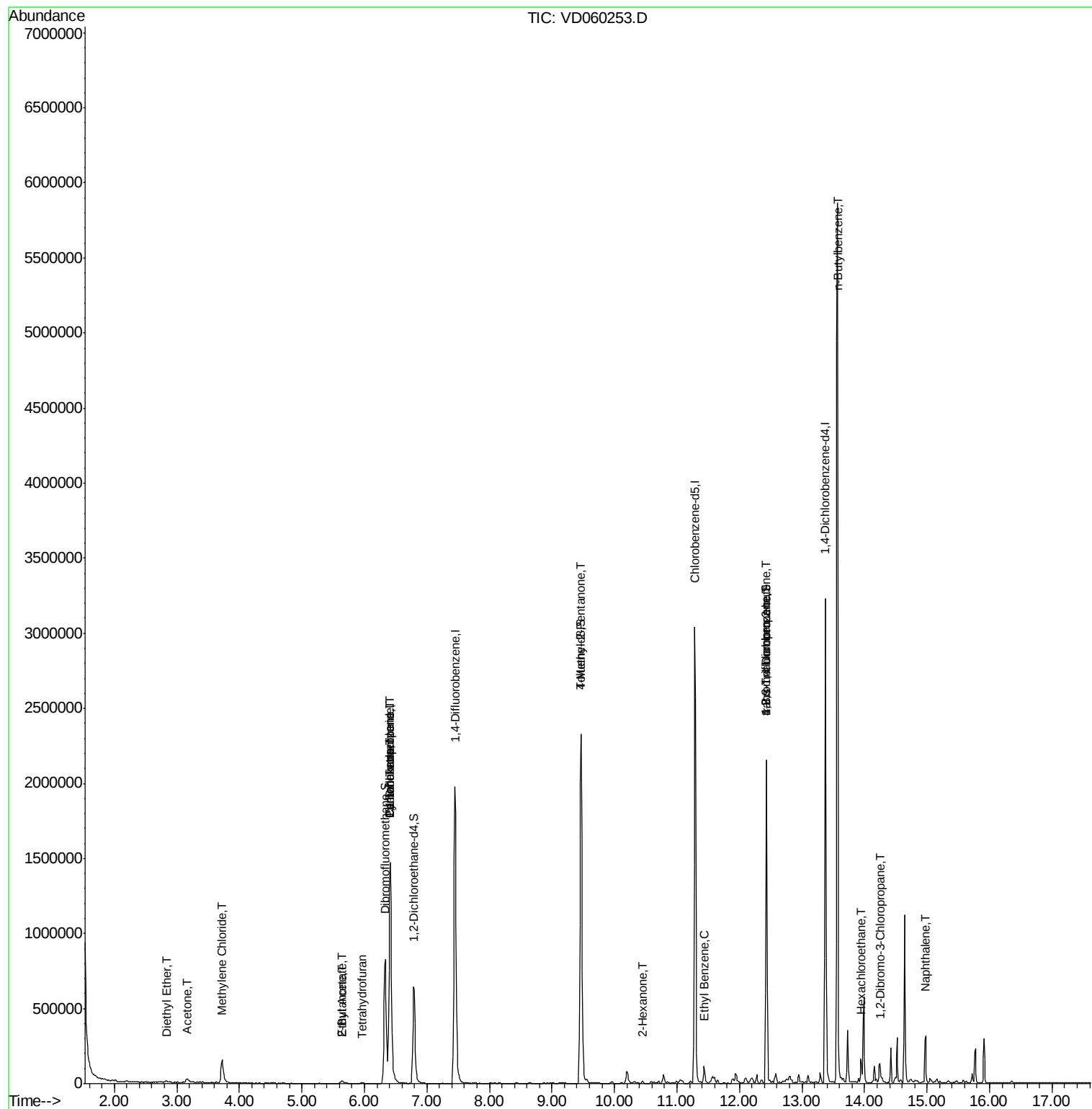
					Qvalue
8) Diethyl Ether	2.82	74	3543	1.418	ug/l 96
16) Acetone	3.16	43	59521	29.610	ug/l 100
20) Methylene Chloride	3.73	84	98860	2.131	ug/l 98
25) 2-Butanone	5.63	43	19943	3.971	ug/l # 87
29) Tetrahydrofuran	5.96	42	3999	1.371	ug/l # 56
31) Cyclohexane	6.41	56	27828	1.159	ug/l # 1
36) 1,1-Dichloropropene	6.40	75	102966	5.082	ug/l # 46
37) Ethyl Acetate	5.63	43	19943	1.483	ug/l # 71
38) Carbon Tetrachloride	6.41	117	113593	6.177	ug/l # 15
51) 4-Methyl-2-Pentanone	9.46	43	11766	1.054	ug/l # 1
59) 2-Hexanone	10.45	43	9809	1.222	ug/l # 30
67) Ethyl Benzene	11.43	91	74468	1.260	ug/l 98
76) 1,2,3-Trichloropropane	12.43	75	270499	23.067	ug/l # 45
81) trans-1,4-Dichloro-2-buten	12.43	75	273532	83.015	ug/l # 13
89) n-Butylbenzene	13.57	91	406715	9.009	ug/l # 38
90) Hexachloroethane	13.94	117	48835	4.561	ug/l # 15
92) 1,2-Dibromo-3-Chloropropan	14.25	75	2200	1.405	ug/l # 1
95) Naphthalene	14.98	128	205796	7.153	ug/l 98

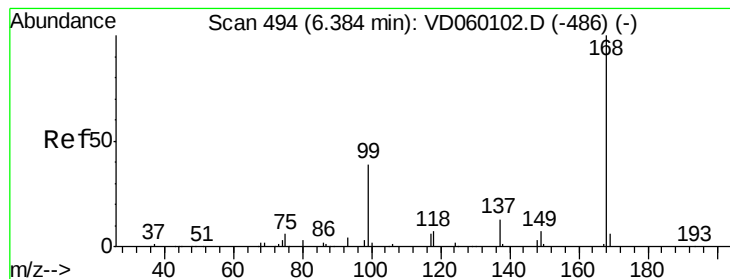
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 02 06:56:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 497

Delta R.T. 0.03 min

Lab File: VD060253.D

Acq: 31 Oct 2018 20:38

Instrument :

MSVOA_D

ClientSampleId :

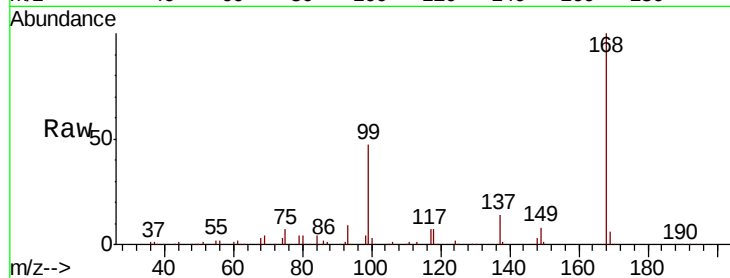
RBR-200036

Tot Ion:168 Resp: 1461465

Ion Ratio Lower Upper

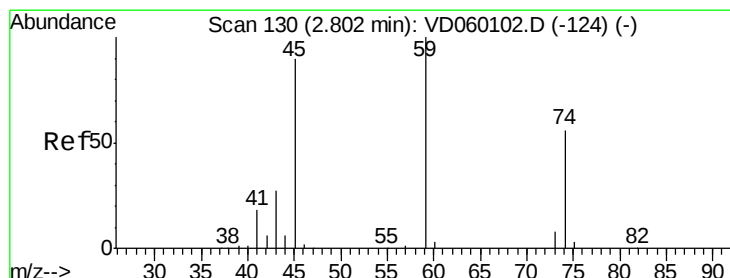
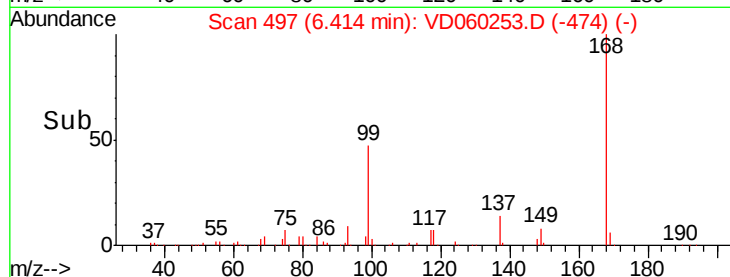
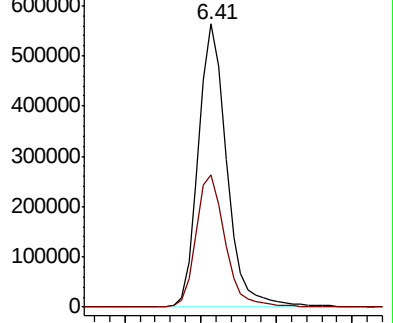
168 100

99 46.9 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.418 ug/l

RT: 2.82 min Scan# 132

Delta R.T. 0.02 min

Lab File: VD060253.D

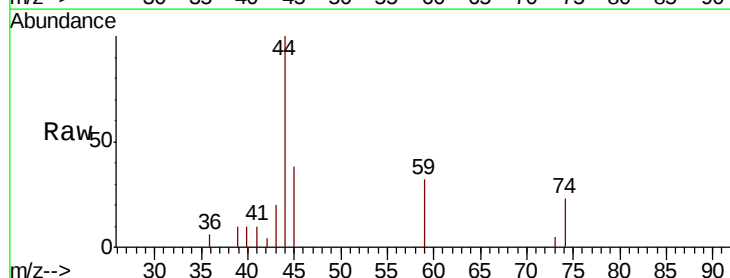
Acq: 31 Oct 2018 20:38

Tgt Ion: 74 Resp: 3543

Ion Ratio Lower Upper

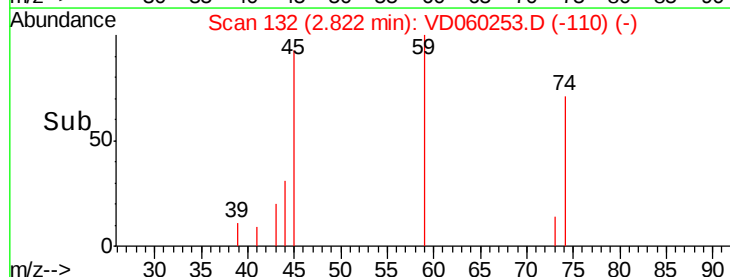
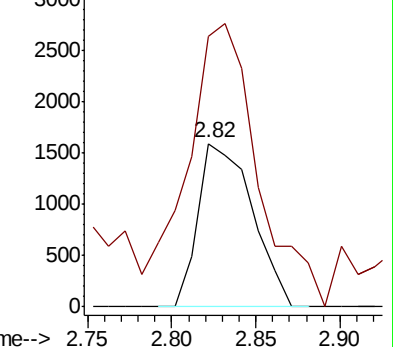
74 100

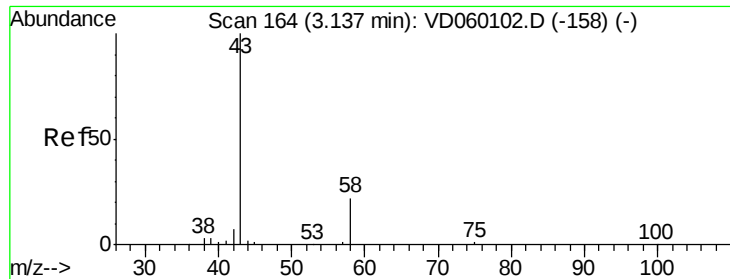
45 165.4 80.3 241.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#16

Acetone

Concen: 29.610 ug/l

RT: 3.16 min Scan# 166

Delta R.T. 0.02 min

Lab File: VD060253.D

Acq: 31 Oct 2018 20:38

Instrument :

MSVOA_D

ClientSampleId :

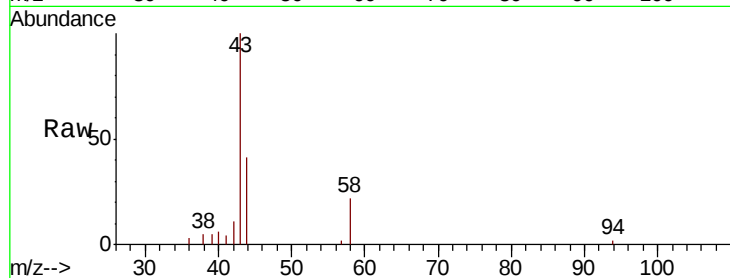
RBR-200036

Tot Ion: 43 Resp: 59521

Ion Ratio Lower Upper

43 100

58 22.3 17.7 26.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.16

15000

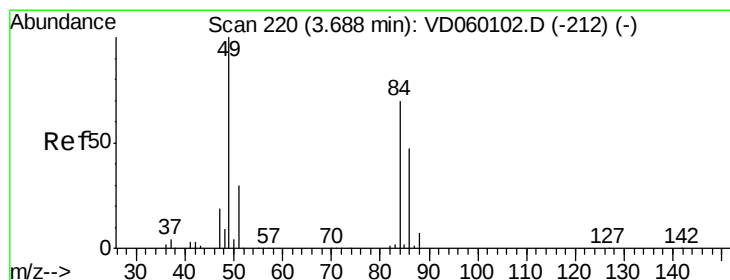
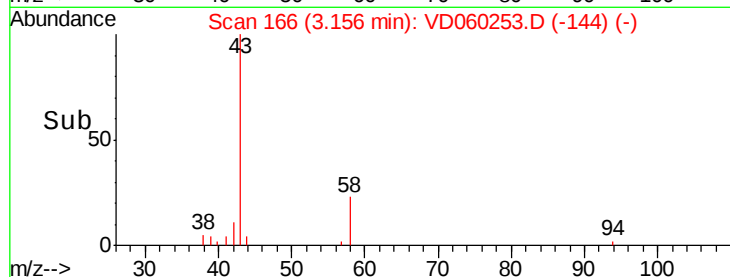
10000

5000

0

Time-->

3.10 3.20 3.30



#20

Methylene Chloride

Concen: 2.131 ug/l

RT: 3.73 min Scan# 224

Delta R.T. 0.04 min

Lab File: VD060253.D

Acq: 31 Oct 2018 20:38

Tgt Ion: 84 Resp: 98860

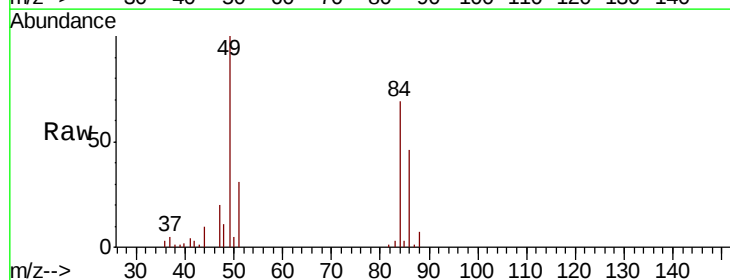
Ion Ratio Lower Upper

84 100

49 145.6 114.6 172.0

51 44.6 33.8 50.8

86 67.5 53.3 79.9



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

60000

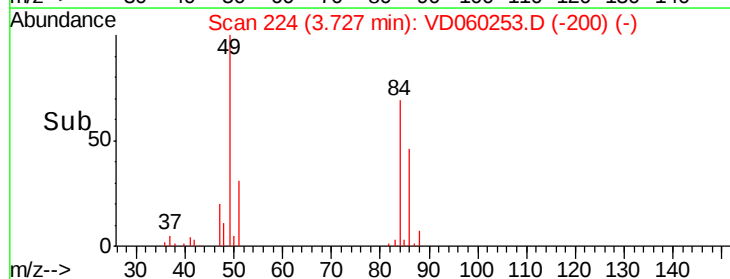
40000

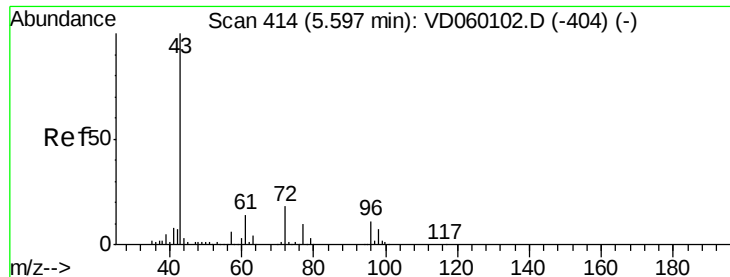
20000

0

Time-->

3.60 3.70 3.80 3.90





#25

2-Butanone

Concen: 3.971 ug/l

RT: 5.63 min Scan# 417

Delta R.T. 0.03 min

Lab File: VD060253.D

Acq: 31 Oct 2018 20:38

Instrument :

MSVOA_D

ClientSampleId :

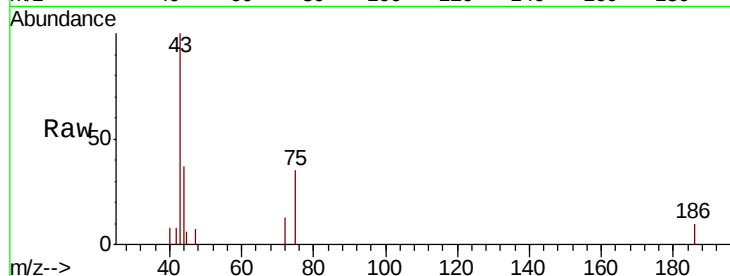
RBR-200036

Tot Ion: 43 Resp: 19943

Ion Ratio Lower Upper

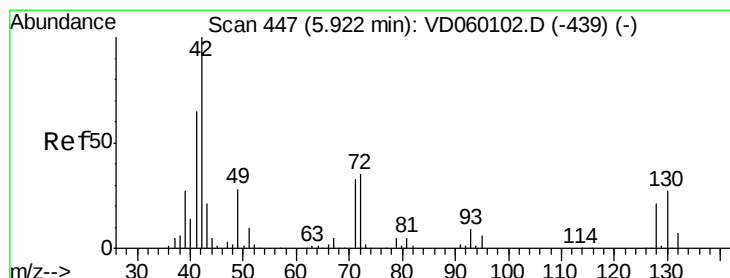
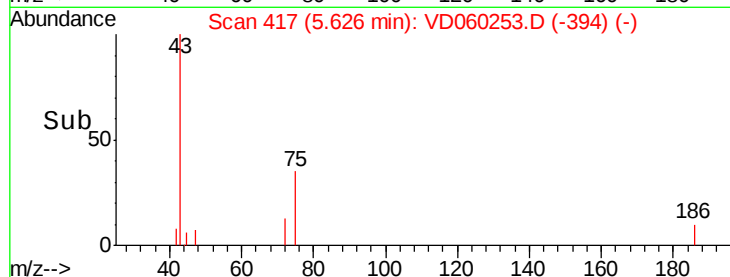
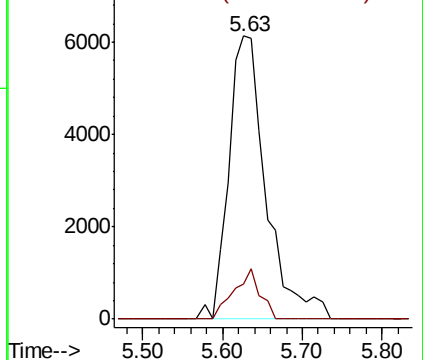
43 100

72 12.5 14.5 21.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.371 ug/l

RT: 5.96 min Scan# 451

Delta R.T. 0.04 min

Lab File: VD060253.D

Acq: 31 Oct 2018 20:38

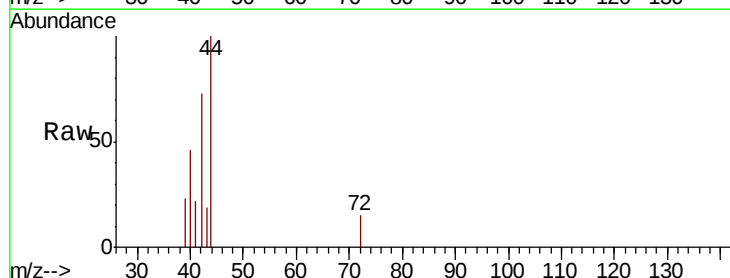
Tgt Ion: 42 Resp: 3999

Ion Ratio Lower Upper

42 100

72 16.4 26.9 40.3#

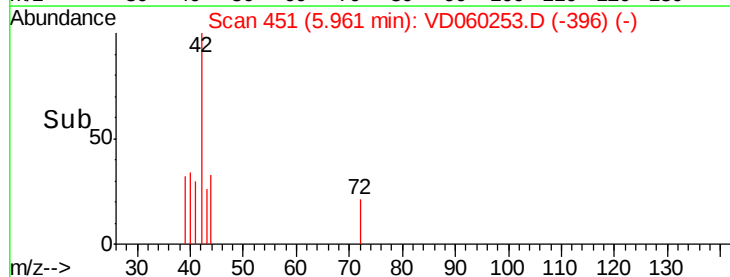
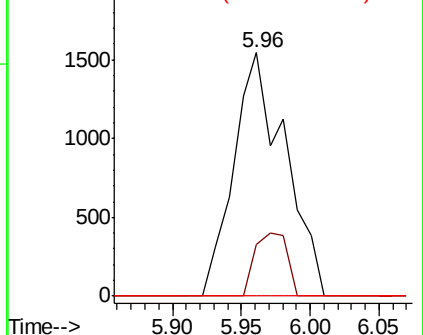
71 0.0 26.7 40.1#

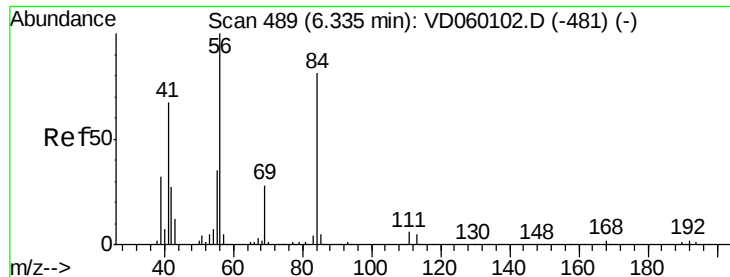


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

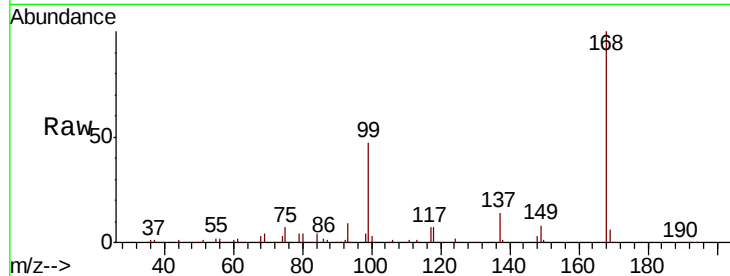




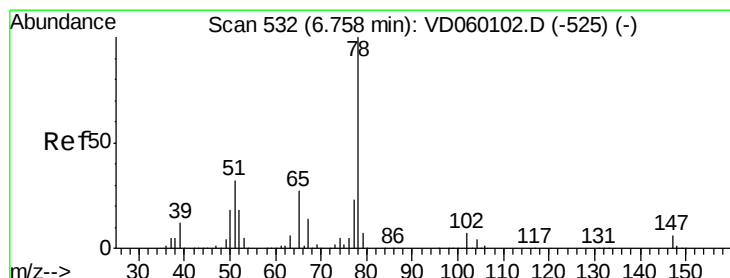
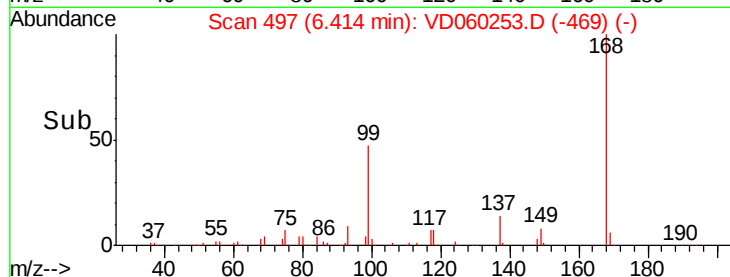
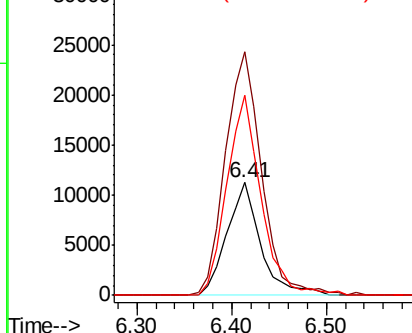
#31
Cyclohexane
Concen: 1.159 ug/l
RT: 6.41 min Scan# 497
Delta R.T. 0.08 min
Lab File: VD060253.D
Acq: 31 Oct 2018 20:38

Instrument :
MSVOA_D
ClientSampleId :
RBR-200036

Tot Ion: 56 Resp: 27828
Ion Ratio Lower Upper
56 100
69 216.0 22.8 34.2#
84 177.2 64.9 97.3#

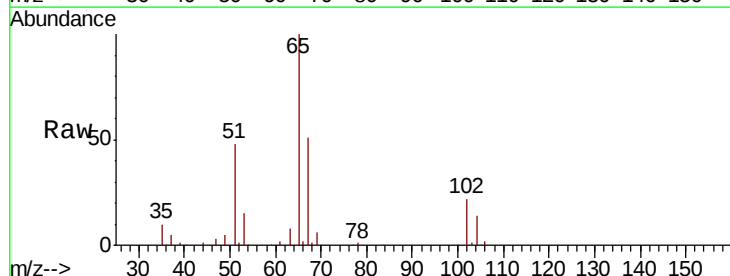


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

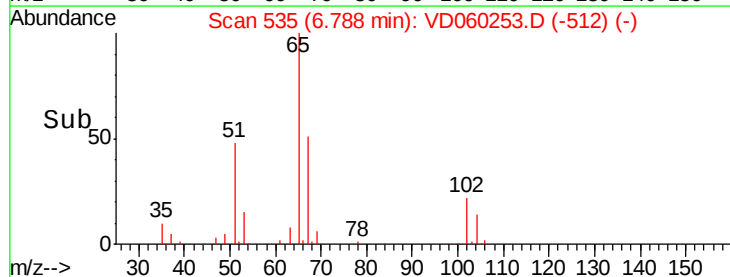
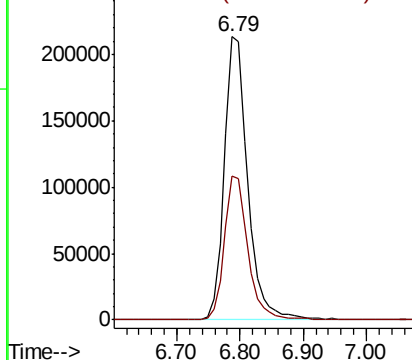


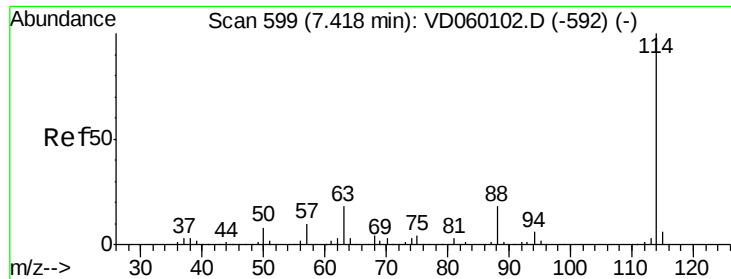
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.79 min Scan# 535
Delta R.T. 0.03 min
Lab File: VD060253.D
Acq: 31 Oct 2018 20:38

Tgt Ion: 65 Resp: 547068
Ion Ratio Lower Upper
65 100
67 51.0 0.0 106.2



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

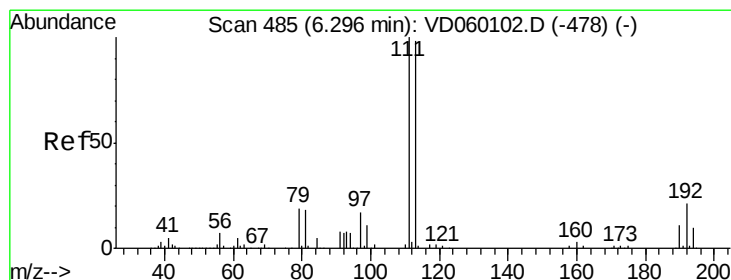
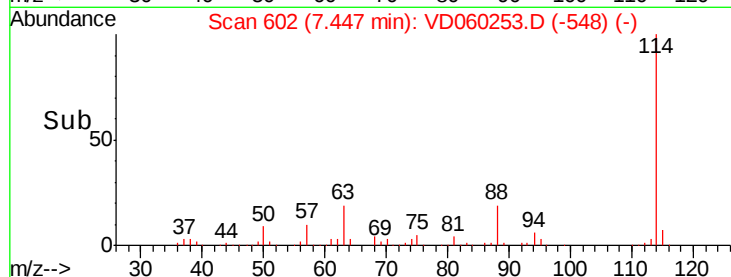
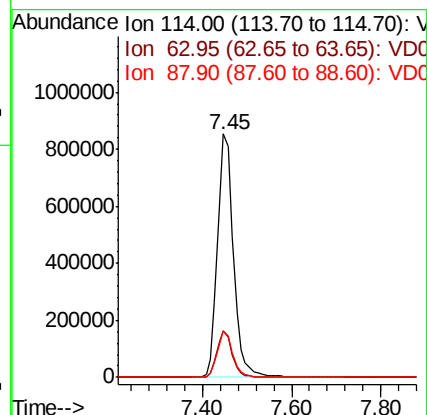
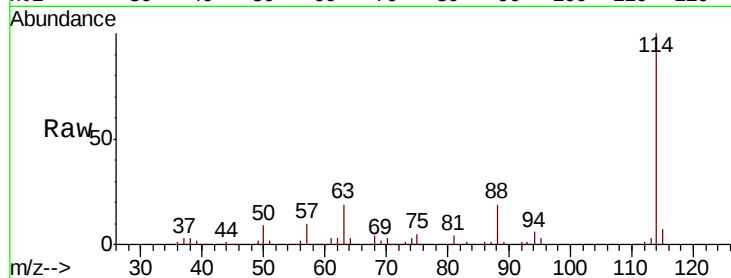




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.45 min Scan# 602
 Delta R.T. 0.03 min
 Lab File: VD060253.D
 Acq: 31 Oct 2018 20:38

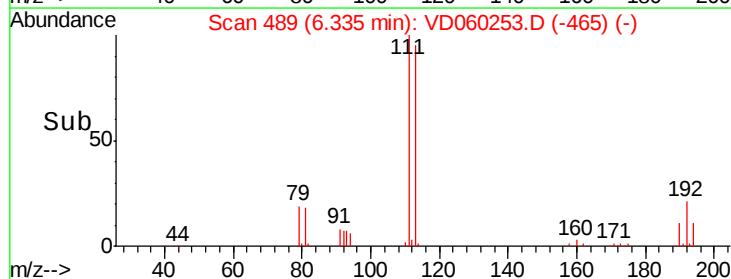
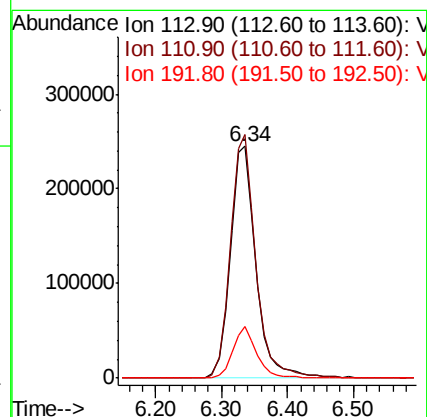
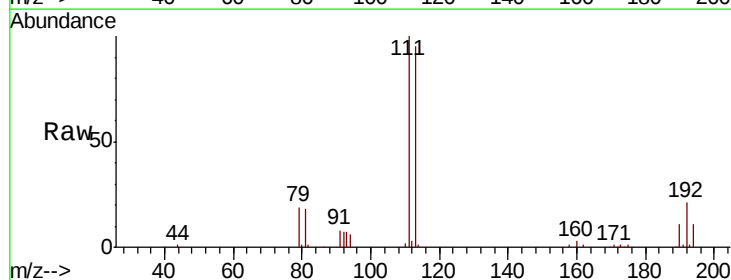
Instrument :
 MSVOA_D
 ClientSampled :
 RBR-200036

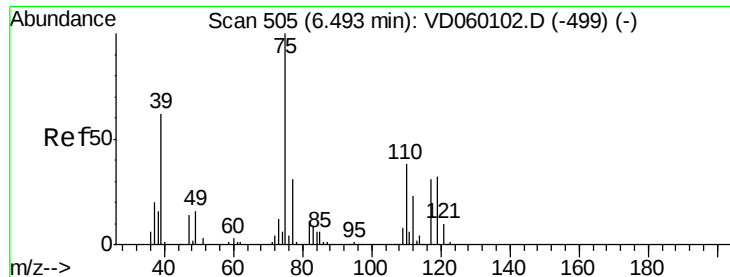
Tot Ion:114 Resp: 2120305
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 36.0
 88 18.9 0.0 36.2



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.34 min Scan# 489
 Delta R.T. 0.04 min
 Lab File: VD060253.D
 Acq: 31 Oct 2018 20:38

Tgt Ion:113 Resp: 667180
 Ion Ratio Lower Upper
 113 100
 111 105.0 81.5 122.3
 192 22.2 17.4 26.0





#36

1,1-Dichloropropene

Concen: 5.082 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.09 min

Lab File: VD060253.D

Acq: 31 Oct 2018 20:38

Instrument :

MSVOA_D

ClientSampleId :

RBR-200036

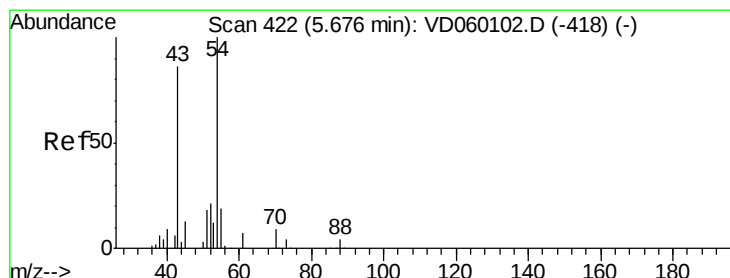
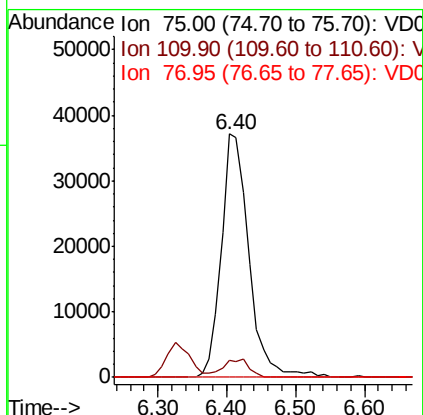
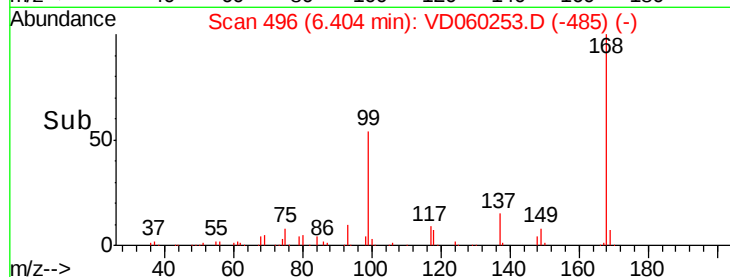
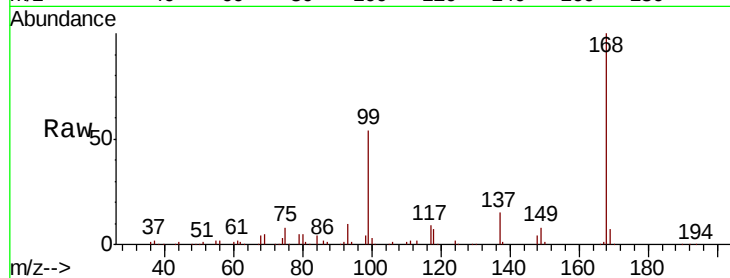
Tot Ion: 75 Resp: 102966

Ion Ratio Lower Upper

75 100

110 7.1 19.0 57.0#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 1.483 ug/l

RT: 5.63 min Scan# 417

Delta R.T. -0.05 min

Lab File: VD060253.D

Acq: 31 Oct 2018 20:38

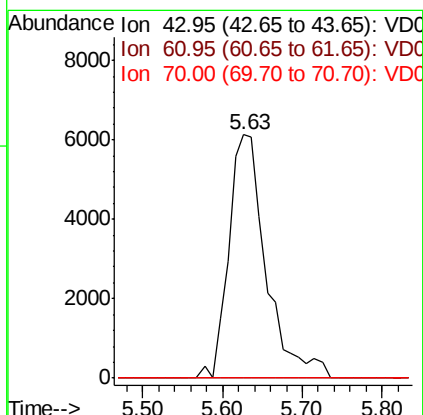
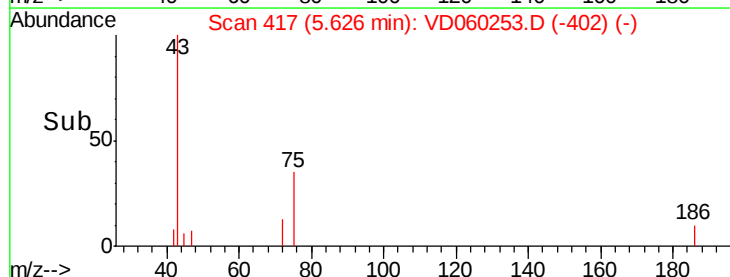
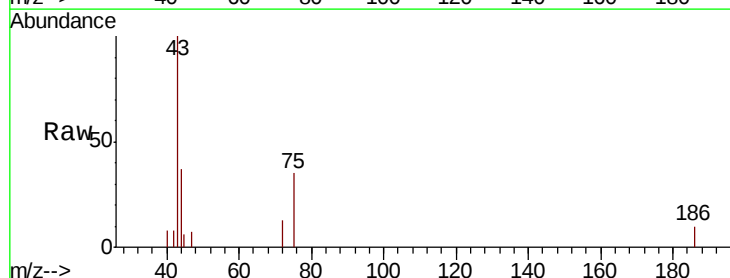
Tgt Ion: 43 Resp: 19943

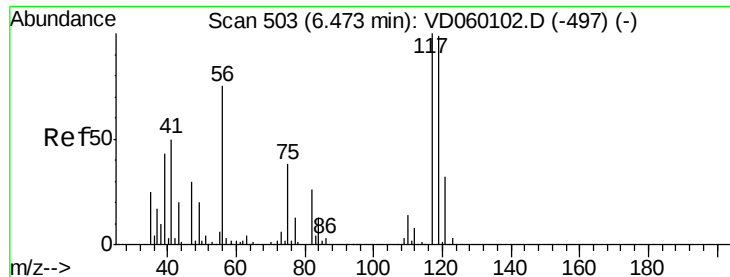
Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

70 0.0 6.3 9.5#

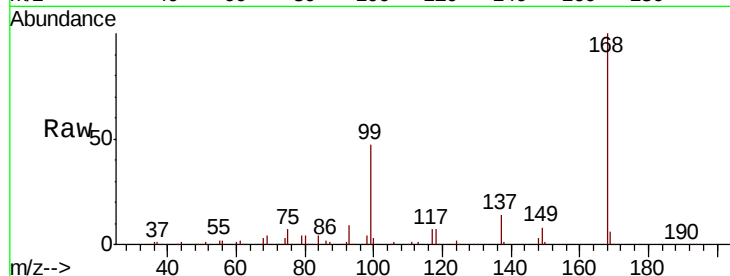




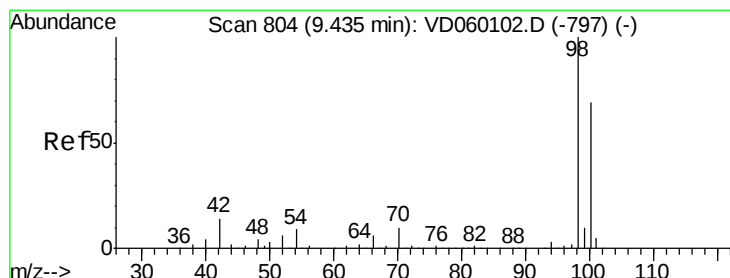
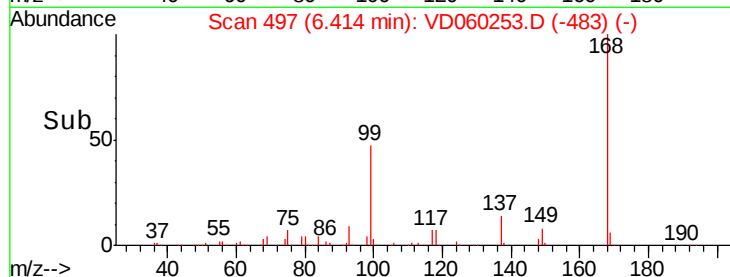
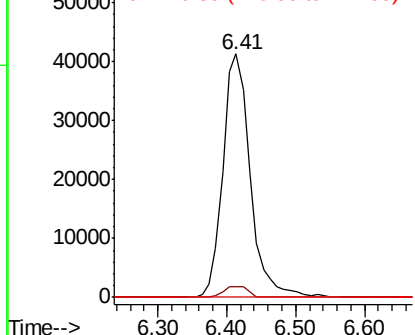
#38
Carbon Tetrachloride
Concen: 6.177 ug/l
RT: 6.41 min Scan# 497
Delta R.T. -0.06 min
Lab File: VD060253.D
Acq: 31 Oct 2018 20:38

Instrument :
MSVOA_D
ClientSampled :
RBR-200036

Tot Ion:117 Resp: 113593
Ion Ratio Lower Upper
117 100
119 4.5 77.8 116.6#
121 0.0 24.8 37.2#

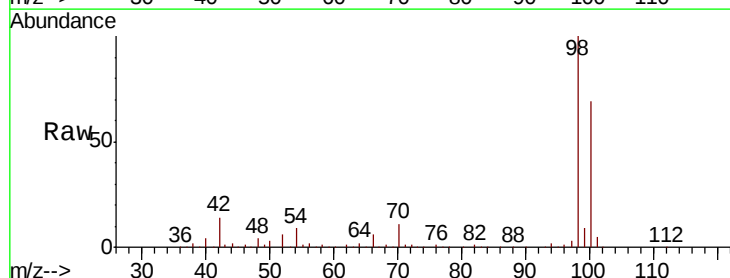


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

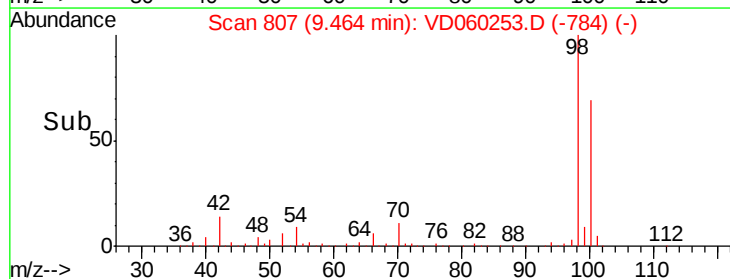
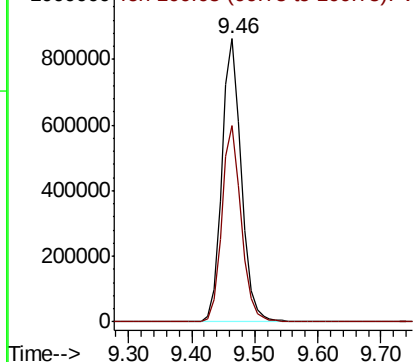


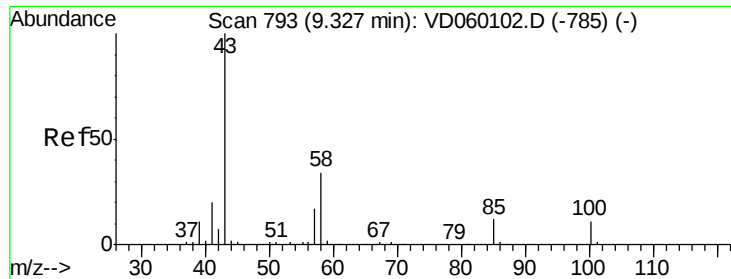
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.46 min Scan# 807
Delta R.T. 0.03 min
Lab File: VD060253.D
Acq: 31 Oct 2018 20:38

Tgt Ion: 98 Resp: 1862904
Ion Ratio Lower Upper
98 100
100 69.2 55.4 83.0



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





#51

4-Methyl-2-Pentanone

Concen: 1.054 ug/l

RT: 9.46 min Scan# 807

Delta R.T. 0.14 min

Lab File: VD060253.D

Acq: 31 Oct 2018 20:38

Instrument :

MSVOA_D

ClientSampleId :

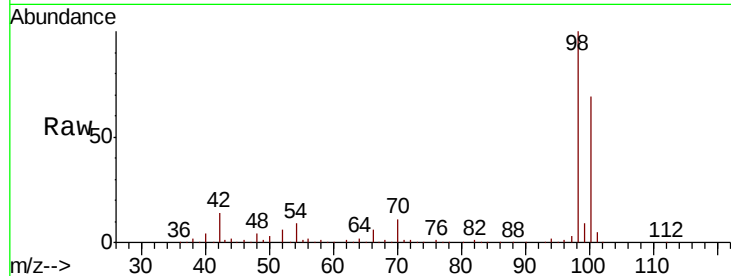
RBR-200036

Tot Ion: 43 Resp: 11766

Ion Ratio Lower Upper

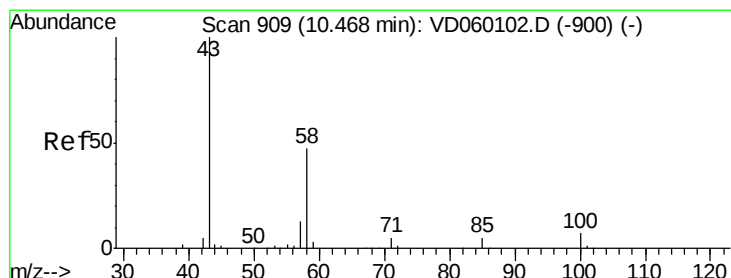
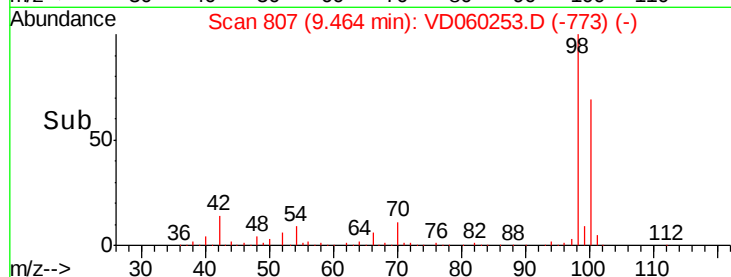
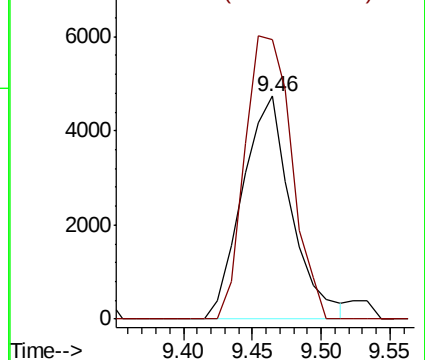
43 100

58 125.7 27.2 40.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#59

2-Hexanone

Concen: 1.222 ug/l

RT: 10.45 min Scan# 907

Delta R.T. -0.02 min

Lab File: VD060253.D

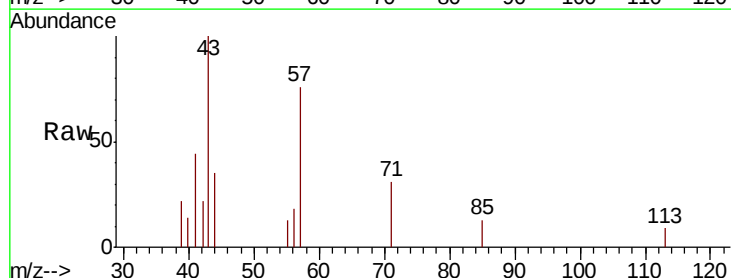
Acq: 31 Oct 2018 20:38

Tgt Ion: 43 Resp: 9809

Ion Ratio Lower Upper

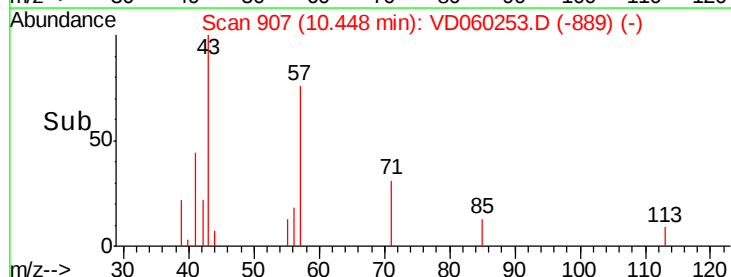
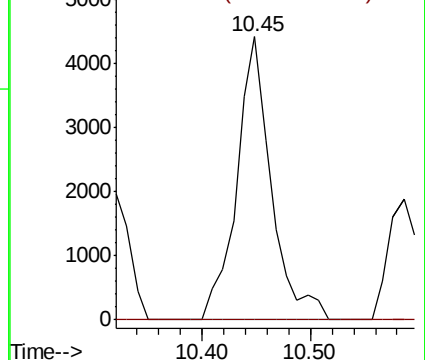
43 100

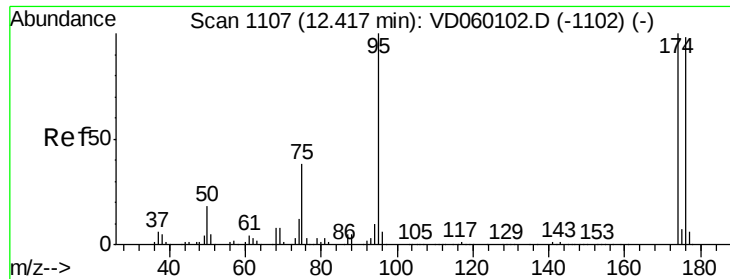
58 0.0 23.3 69.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VD060253.D

Acq: 31 Oct 2018 20:38

Instrument :

MSVOA_D

ClientSampleId :

RBR-200036

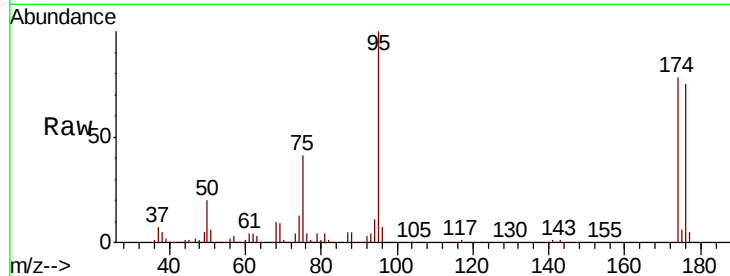
Tot Ion: 95 Resp: 678064

Ion Ratio Lower Upper

95 100

174 77.9 0.0 200.2

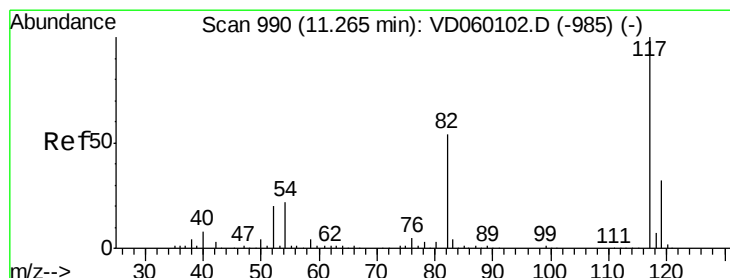
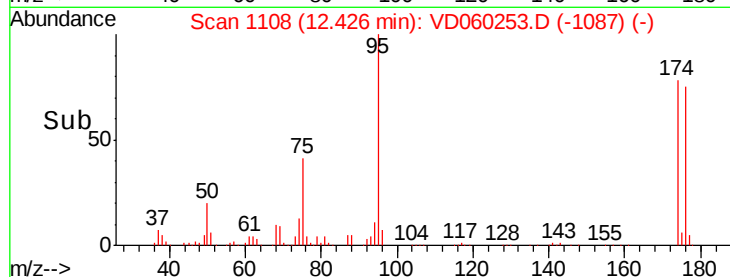
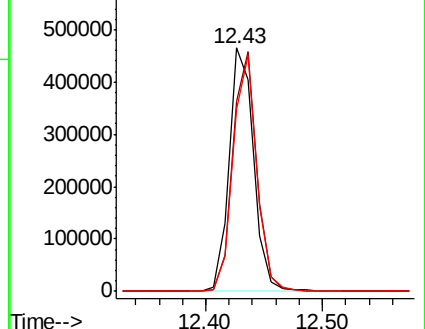
176 74.8 0.0 195.6



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: 11.28 min Scan# 992

Delta R.T. 0.02 min

Lab File: VD060253.D

Acq: 31 Oct 2018 20:38

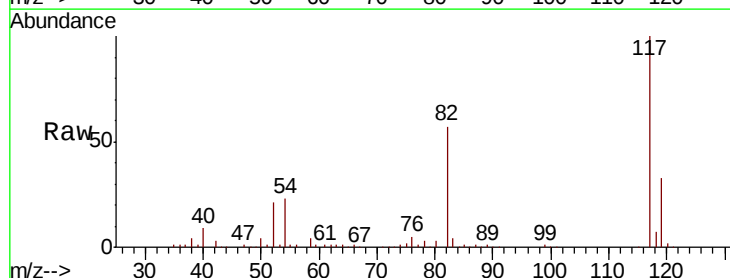
Tgt Ion: 117 Resp: 1685808

Ion Ratio Lower Upper

117 100

82 56.9 43.4 65.2

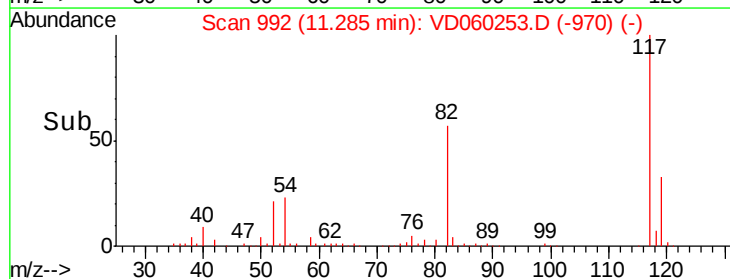
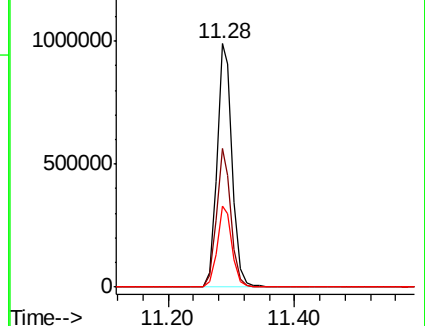
119 33.1 26.0 39.0

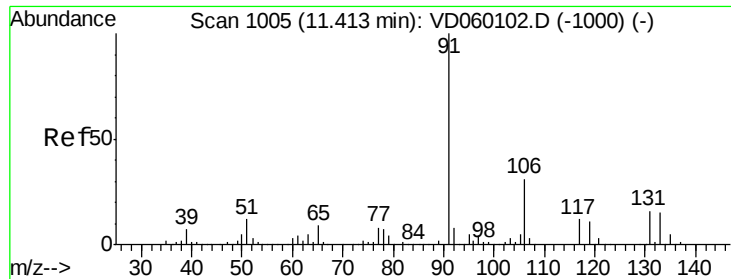


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

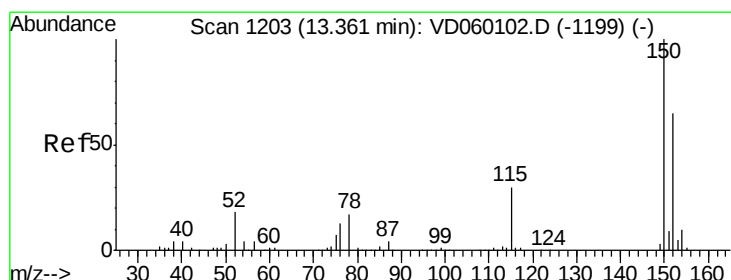
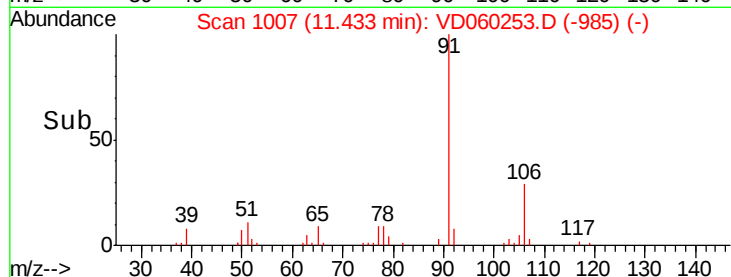
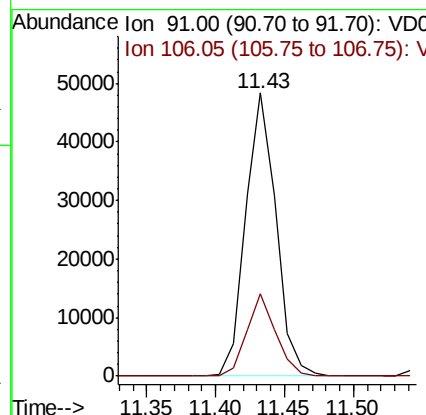
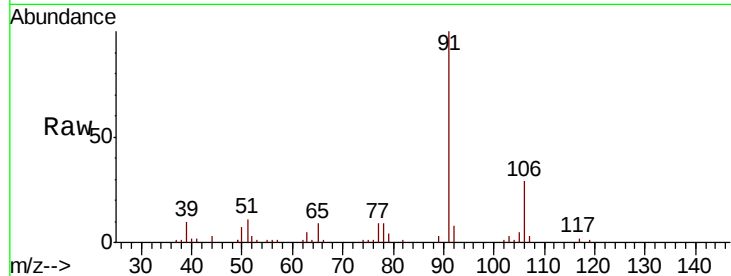




#67
Ethyl Benzene
Concen: 1.260 ug/l
RT: 11.43 min Scan# 1007
Delta R.T. 0.02 min
Lab File: VD060253.D
Acq: 31 Oct 2018 20:38

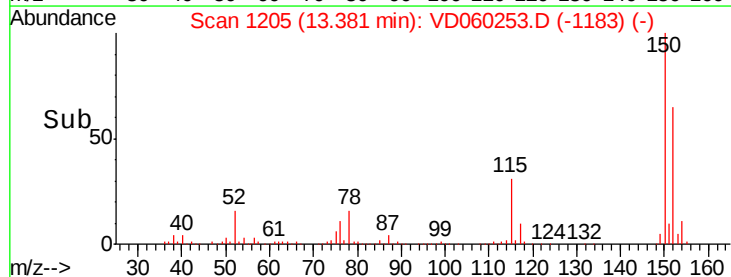
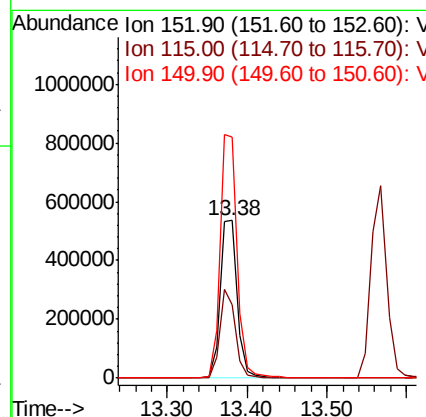
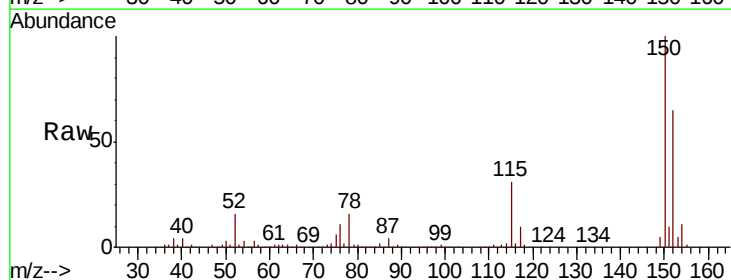
Instrument :
MSVOA_D
ClientSampleID :
RBR-200036

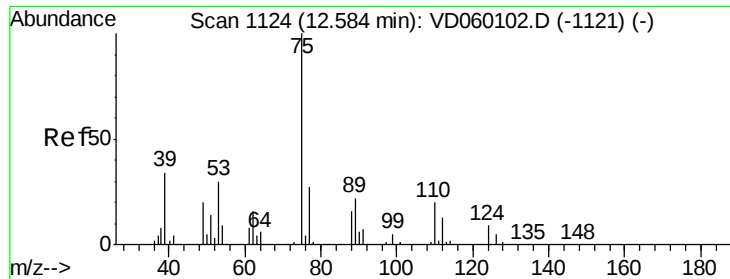
Tot Ion: 91 Resp: 74468
Ion Ratio Lower Upper
91 100
106 29.3 24.4 36.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.38 min Scan# 1205
Delta R.T. 0.02 min
Lab File: VD060253.D
Acq: 31 Oct 2018 20:38

Tgt Ion: 152 Resp: 814269
Ion Ratio Lower Upper
152 100
115 46.8 27.1 81.2
150 153.2 0.0 311.8





#76

1,2,3-Trichloropropane

Concen: 23.067 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.16 min

Lab File: VD060253.D

Acq: 31 Oct 2018 20:38

Instrument :

MSVOA_D

ClientSampleId :

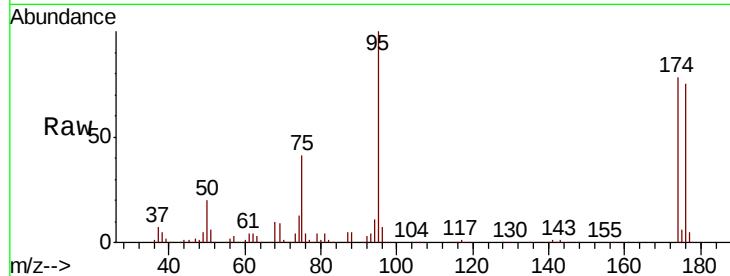
RBR-200036

Tot Ion: 75 Resp: 270499

Ion Ratio Lower Upper

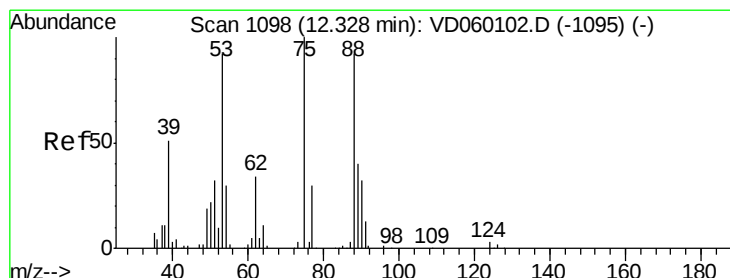
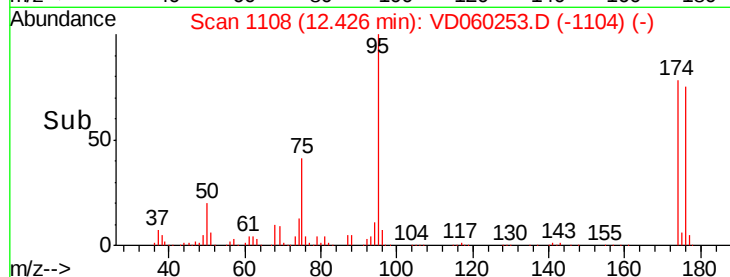
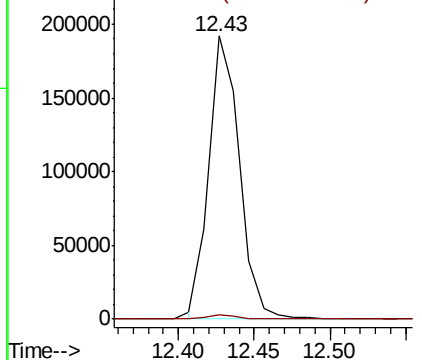
75 100

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: 83.015 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.10 min

Lab File: VD060253.D

Acq: 31 Oct 2018 20:38

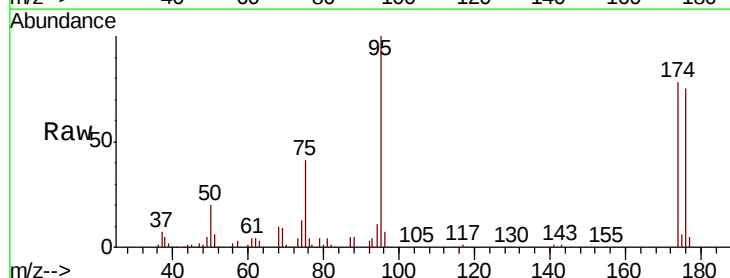
Tgt Ion: 75 Resp: 273532

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.6#

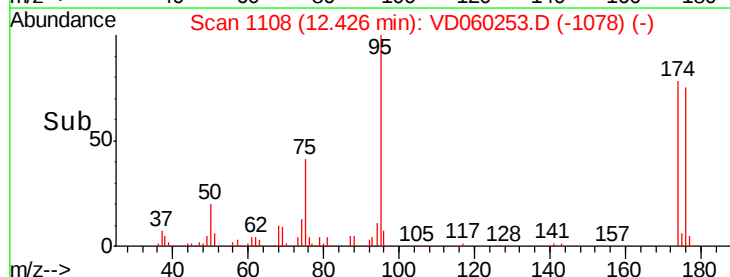
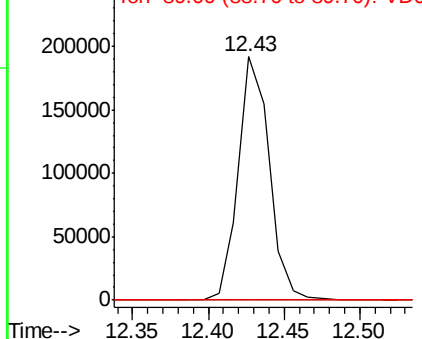
89 0.0 32.0 48.0#

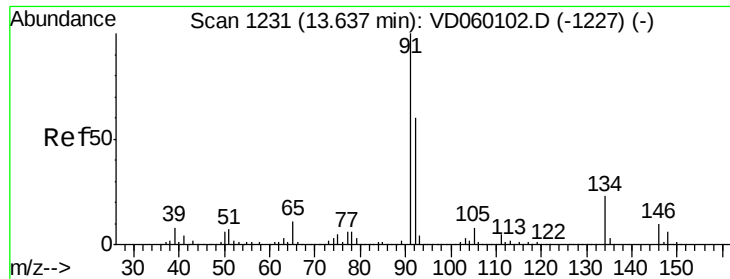


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

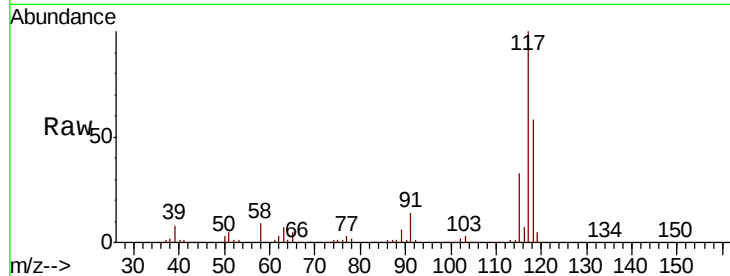




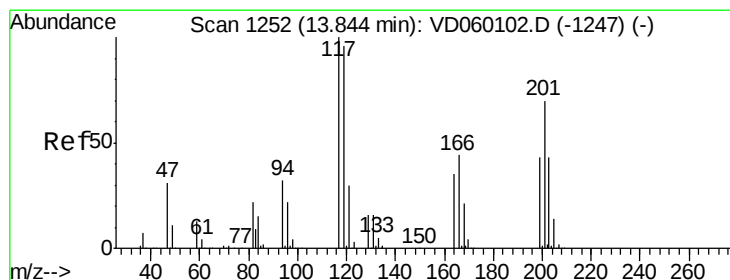
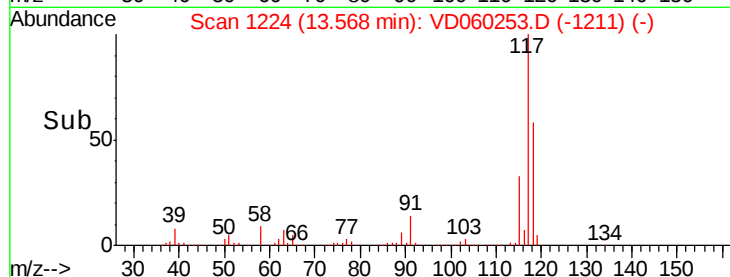
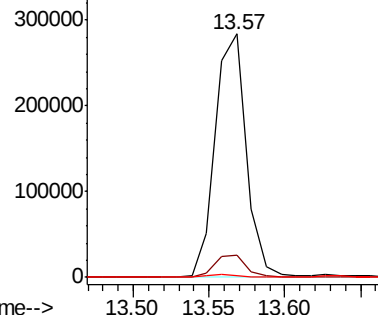
#89
n-Butylbenzene
Concen: 9.009 ug/l
RT: 13.57 min Scan# 1224
Delta R.T. -0.07 min
Lab File: VD060253.D
Acq: 31 Oct 2018 20:38

Instrument :
MSVOA_D
ClientSampleId :
RBR-200036

Tot Ion: 91 Resp: 406715
Ion Ratio Lower Upper
91 100
92 8.9 30.1 90.3#
134 0.7 11.6 34.7#

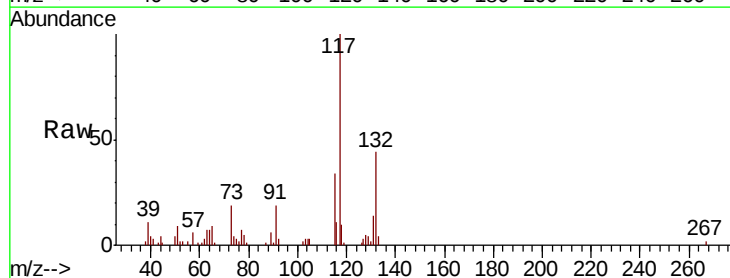


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V

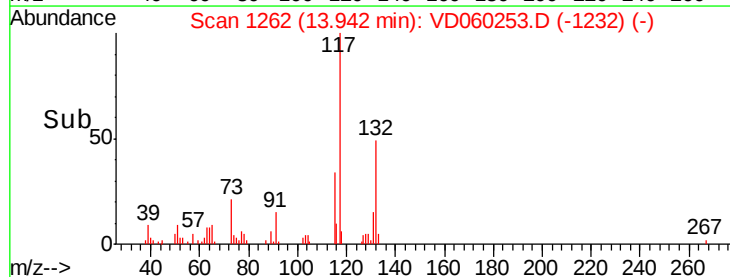
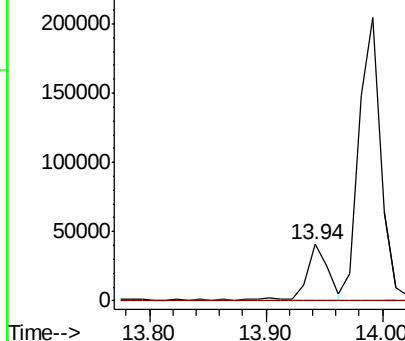


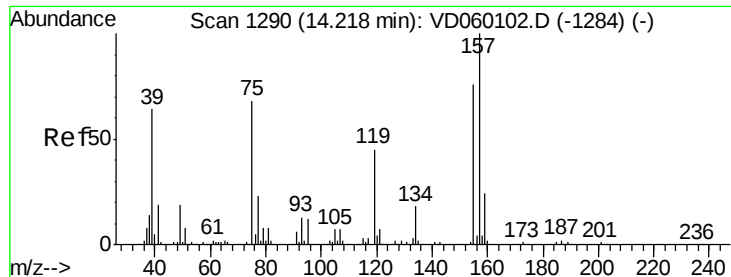
#90
Hexachloroethane
Concen: 4.561 ug/l
RT: 13.94 min Scan# 1262
Delta R.T. 0.10 min
Lab File: VD060253.D
Acq: 31 Oct 2018 20:38

Tgt Ion: 117 Resp: 48835
Ion Ratio Lower Upper
117 100
201 0.0 34.8 104.5#



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V

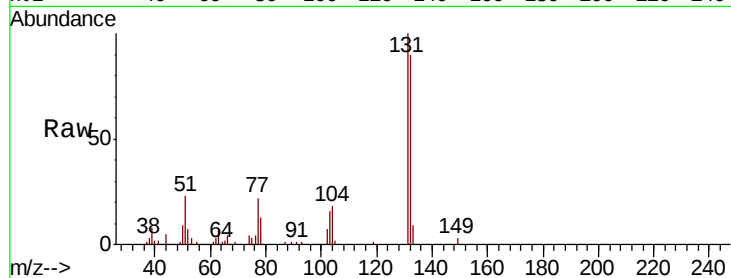




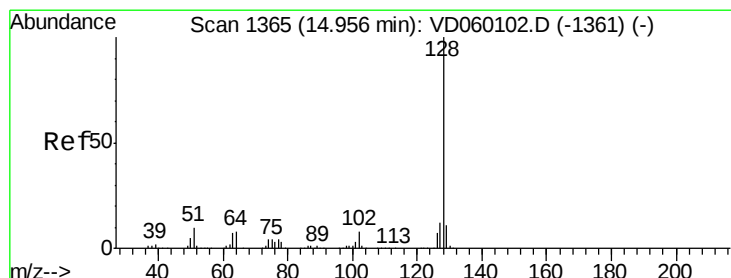
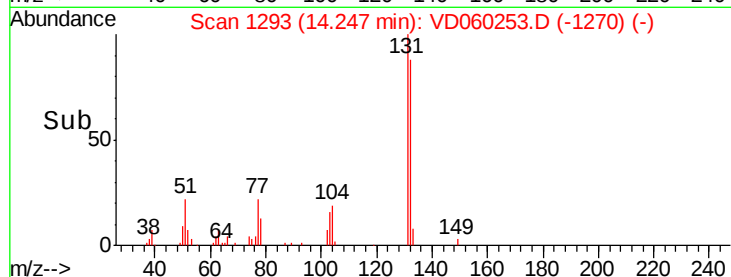
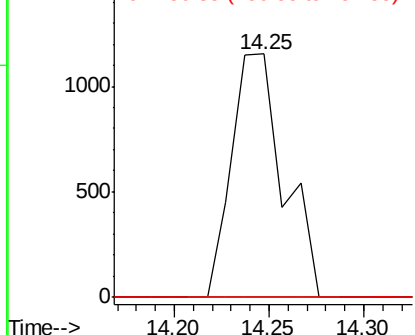
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.405 ug/l
 RT: 14.25 min Scan# 1293
 Delta R.T. 0.03 min
 Lab File: VD060253.D
 Acq: 31 Oct 2018 20:38

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200036

Tot Ion: 75 Resp: 2200
 Ion Ratio Lower Upper
 75 100
 155 0.0 55.9 167.7#
 157 0.0 73.3 219.8#

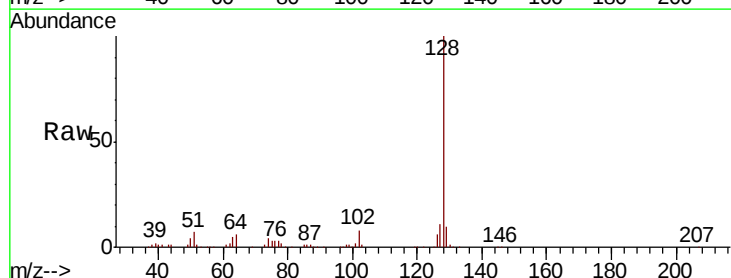


Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V



#95
 Naphthalene
 Concen: 7.153 ug/l
 RT: 14.98 min Scan# 1367
 Delta R.T. 0.02 min
 Lab File: VD060253.D
 Acq: 31 Oct 2018 20:38

Tgt Ion: 128 Resp: 205796
 Ion Ratio Lower Upper
 128 100
 127 11.4 9.9 14.9
 129 10.4 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

