

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101018\
 Data File : VD060173.D
 Acq On : 10 Oct 2018 14:11
 Operator : VA/AP
 Sample : J5366-01
 Misc : 6.07g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR200035

Quant Time: Oct 11 01:10:49 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	1143254	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	7.43	114	1531397	50.00	ug/l	0.01
63) Chlorobenzene-d5	11.28	117	1279223	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.37	152	637921	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.77	65	465332	53.70	ug/l	0.01
Spiked Amount			Recovery	=	107.40%	
35) Dibromofluoromethane	6.31	113	555439	47.76	ug/l	0.01
Spiked Amount			Recovery	=	95.52%	
50) Toluene-d8	9.45	98	1494013	45.05	ug/l	0.01
Spiked Amount			Recovery	=	90.10%	
62) 4-Bromofluorobenzene	12.42	95	570853	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	

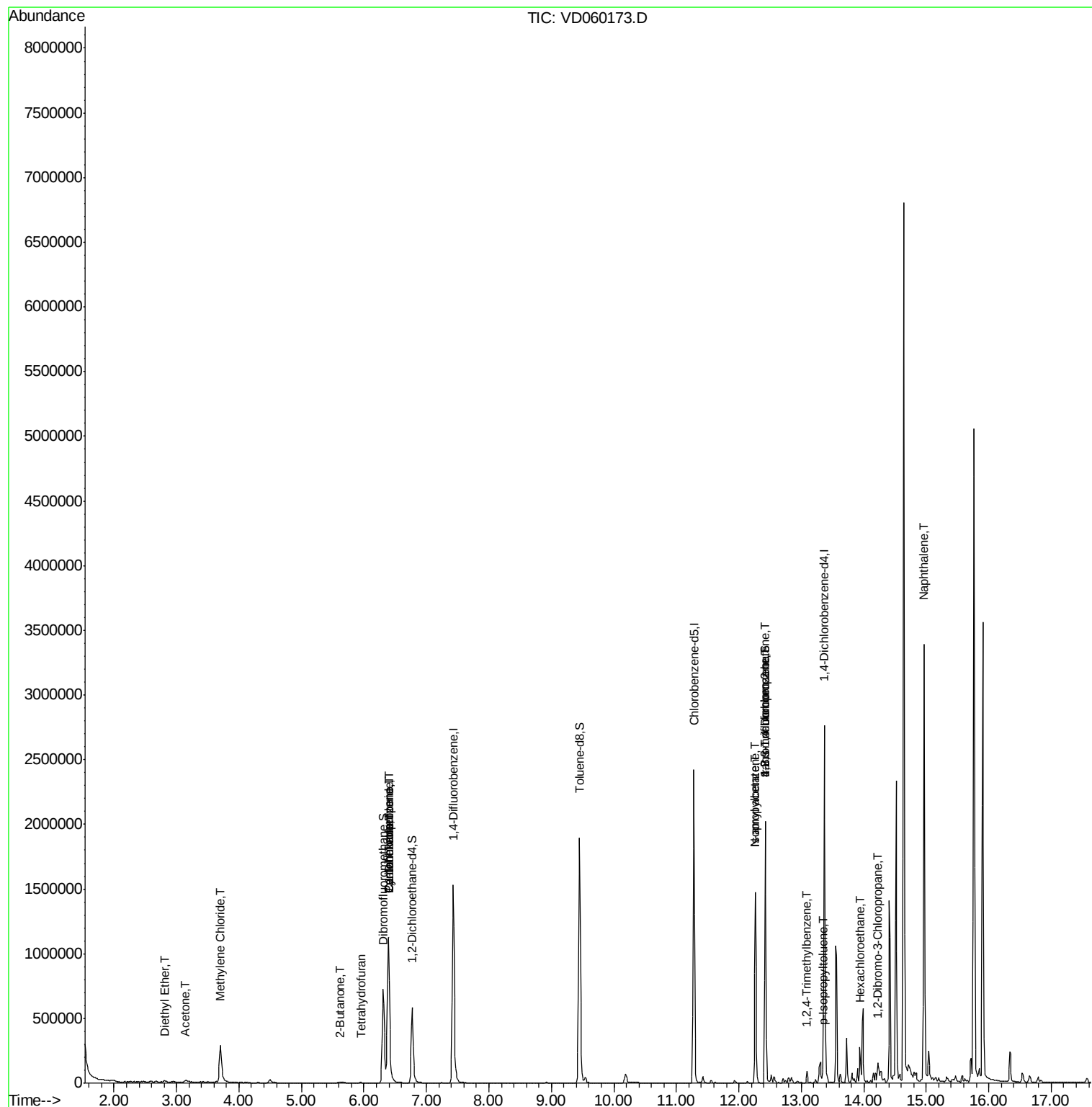
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.82	74	3024	1.548	ug/l	91
16) Acetone	3.14	43	25443	16.180	ug/l	100
20) Methylene Chloride	3.70	84	182308	11.410	ug/l	99
25) 2-Butanone	5.62	43	4677	1.191	ug/l #	59
29) Tetrahydrofuran	5.96	42	2948	1.292	ug/l #	61
31) Cyclohexane	6.40	56	21918	1.167	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	80963	5.533	ug/l #	45
38) Carbon Tetrachloride	6.40	117	89106	6.709	ug/l #	15
73) Isopropylbenzene	12.26	105	49329	1.172	ug/l #	67
74) N-amyl acetate	12.26	43	37730	2.448	ug/l #	29
76) 1,2,3-Trichloropropane	12.42	75	228212	24.841	ug/l #	45
81) trans-1,4-Dichloro-2-buten	12.42	75	233113	90.305	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.09	105	37996	1.107	ug/l	89
86) p-Isopropyltoluene	13.34	119	40808	1.126	ug/l	95
90) Hexachloroethane	13.94	117	91339	10.888	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.23	75	2106	1.717	ug/l #	1
95) Naphthalene	14.97	128	2411160	106.969	ug/l	99

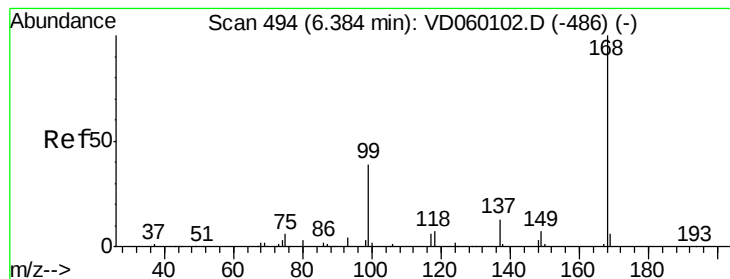
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 495

Delta R.T. 0.01 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

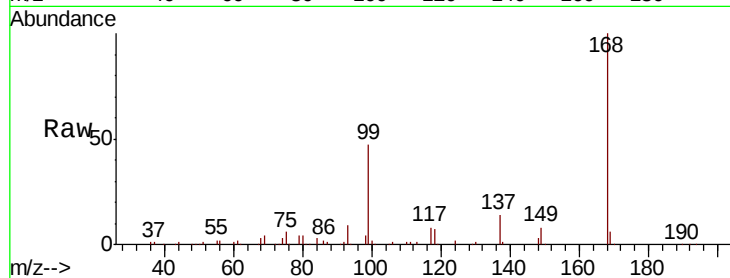
RBR200035

Tot Ion:168 Resp: 1143254

Ion Ratio Lower Upper

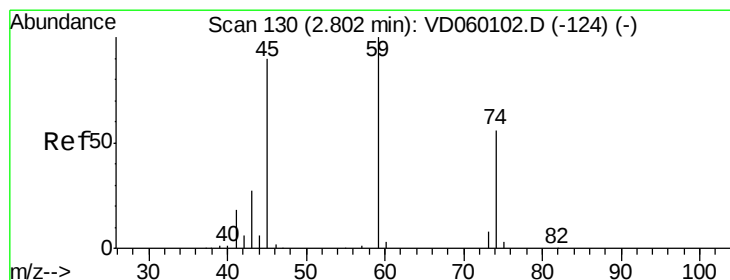
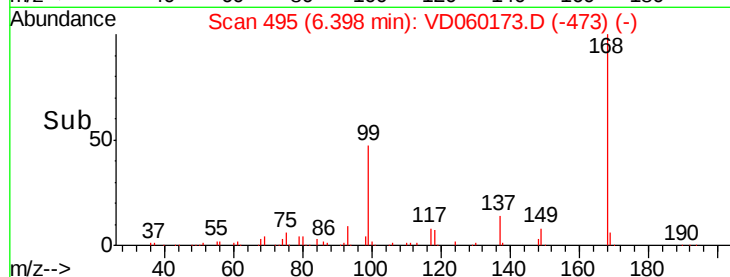
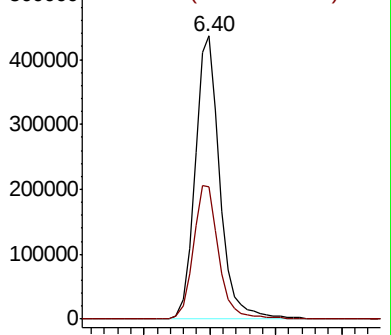
168 100

99 46.6 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: 1.548 ug/l

RT: 2.82 min Scan# 131

Delta R.T. 0.01 min

Lab File: VD060173.D

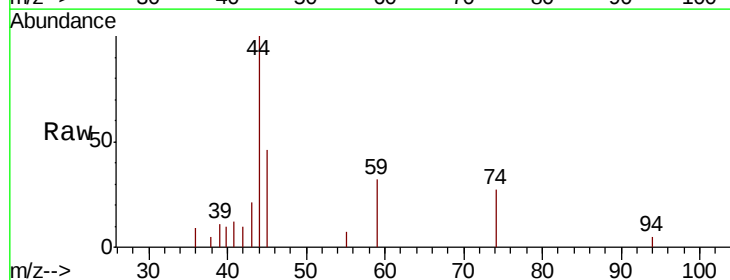
Acq: 10 Oct 2018 14:11

Tgt Ion: 74 Resp: 3024

Ion Ratio Lower Upper

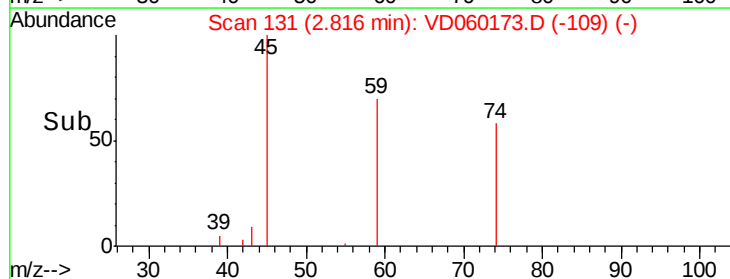
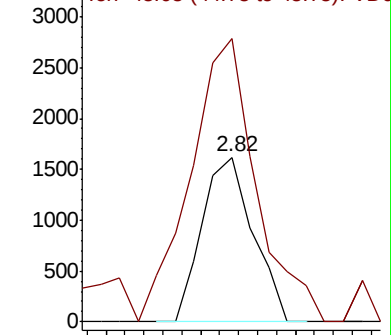
74 100

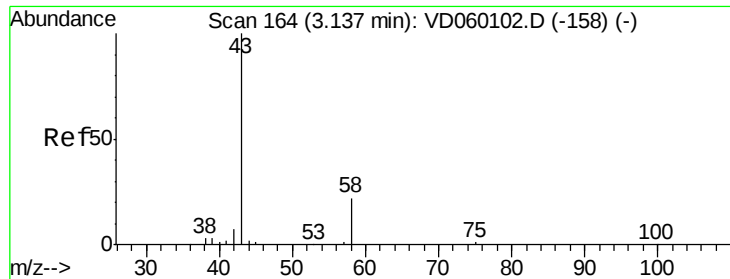
45 172.2 80.3 241.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#16

Acetone

Concen: 16.180 ug/l

RT: 3.14 min Scan# 164

Delta R.T. 0.00 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

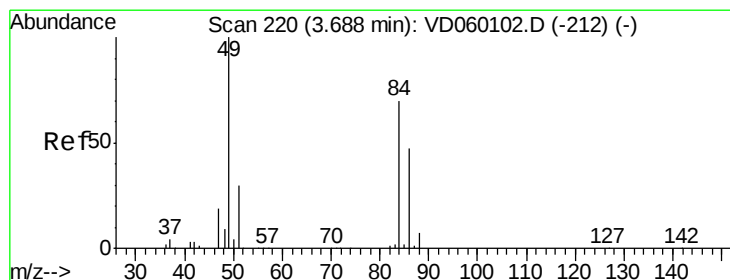
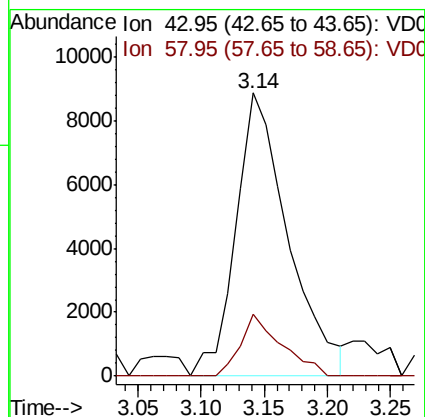
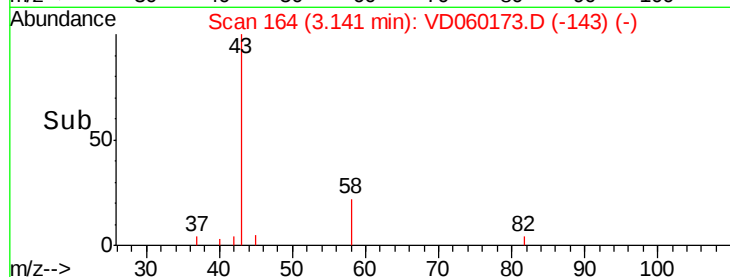
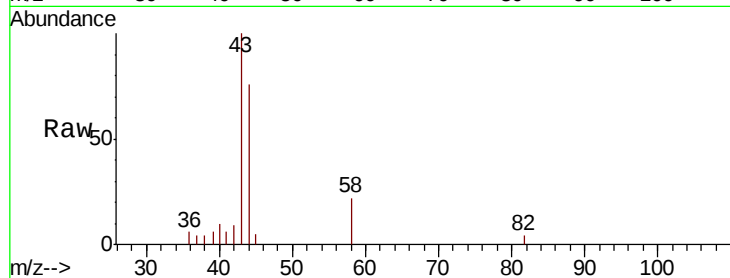
RBR200035

Tot Ion: 43 Resp: 25443

Ion Ratio Lower Upper

43 100

58 21.9 17.7 26.5



#20

Methylene Chloride

Concen: 11.410 ug/l

RT: 3.70 min Scan# 221

Delta R.T. 0.01 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

Tgt Ion: 84 Resp: 182308

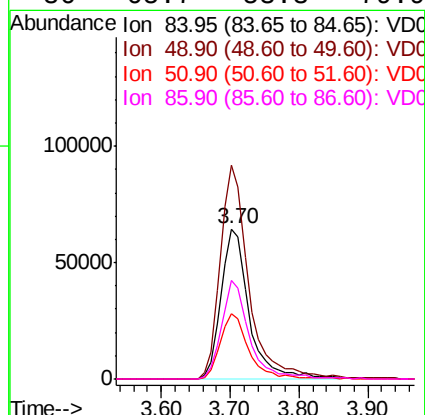
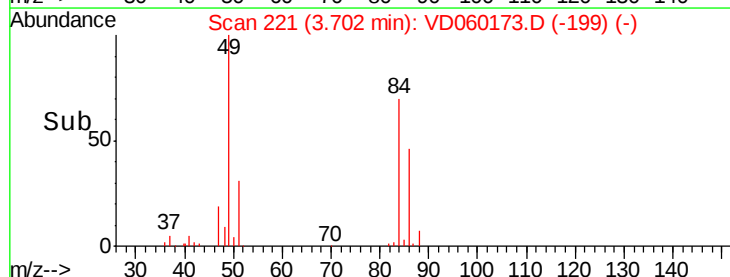
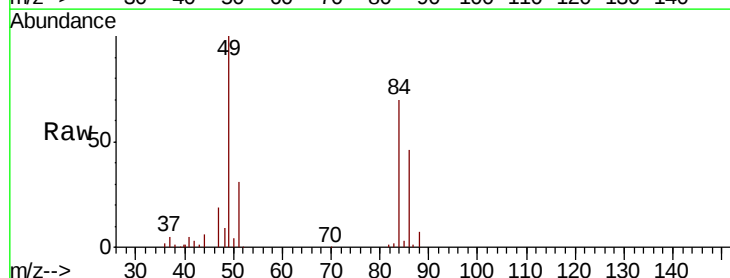
Ion Ratio Lower Upper

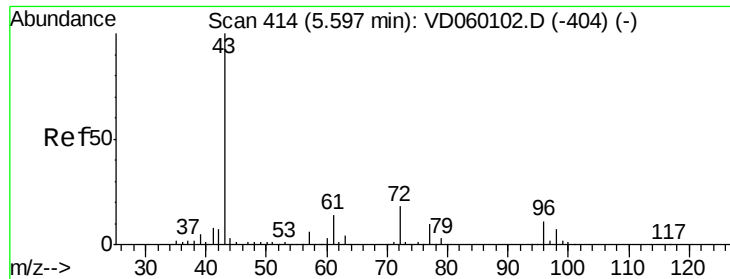
84 100

49 142.1 114.6 172.0

51 43.8 33.8 50.8

86 65.7 53.3 79.9





#25

2-Butanone

Concen: 1.191 ug/l

RT: 5.62 min Scan# 416

Delta R.T. 0.02 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

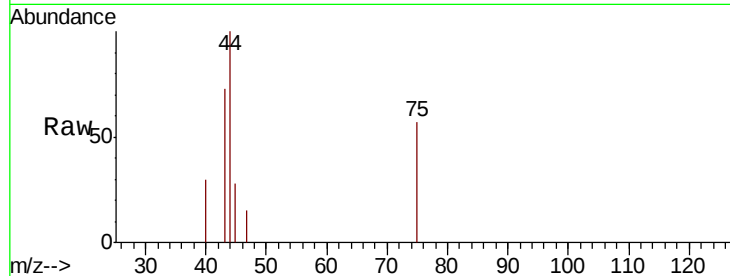
RBR200035

Tot Ion: 43 Resp: 4677

Ion Ratio Lower Upper

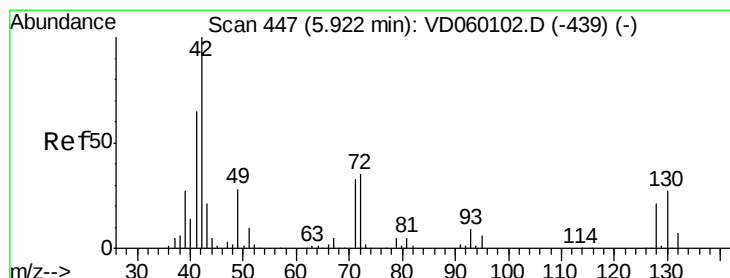
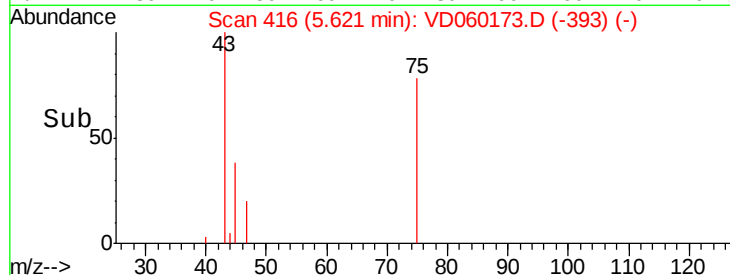
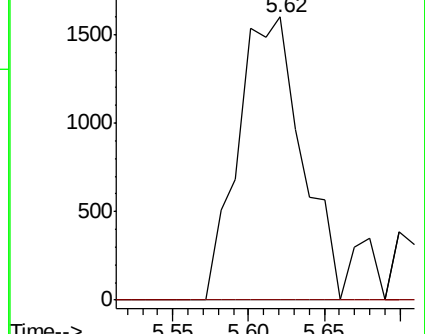
43 100

72 0.0 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: 1.292 ug/l

RT: 5.96 min Scan# 450

Delta R.T. 0.03 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

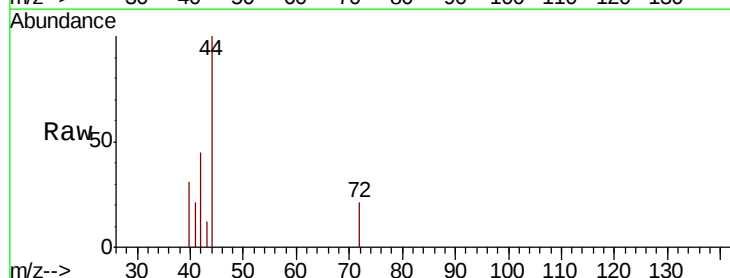
Tgt Ion: 42 Resp: 2948

Ion Ratio Lower Upper

42 100

72 10.8 26.9 40.3#

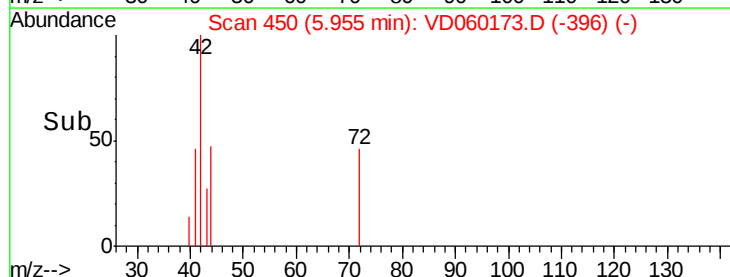
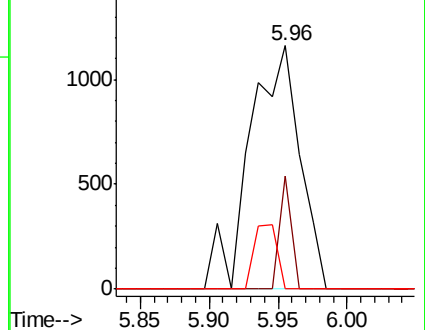
71 12.2 26.7 40.1#

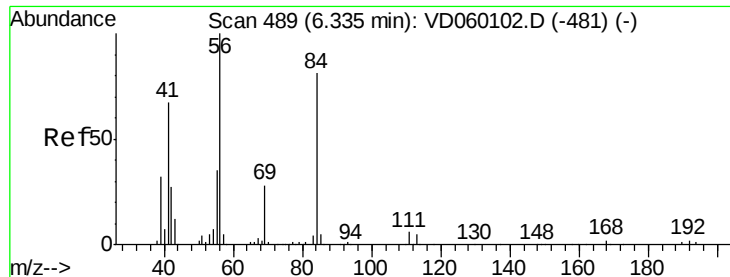


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

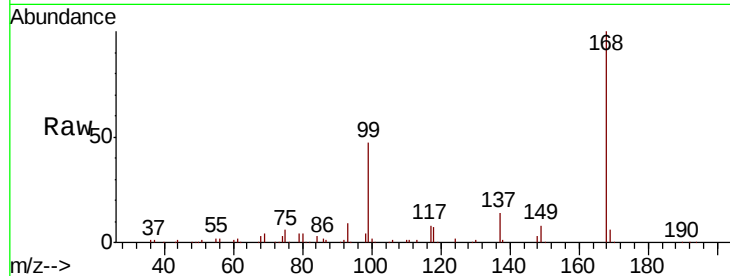




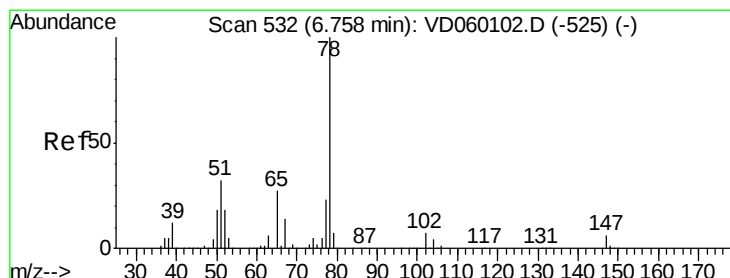
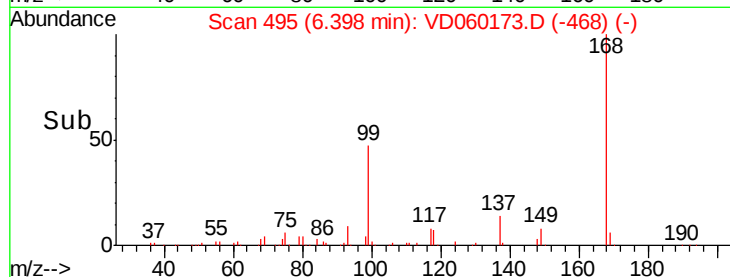
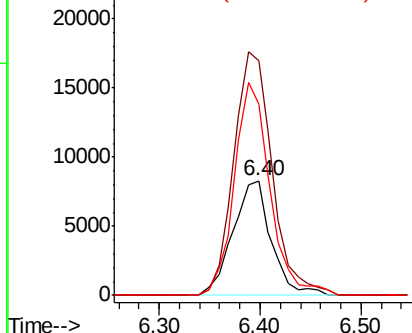
#31
Cyclohexane
Concen: 1.167 ug/l
RT: 6.40 min Scan# 495
Delta R.T. 0.06 min
Lab File: VD060173.D
Acq: 10 Oct 2018 14:11

Instrument :
MSVOA_D
ClientSampleID :
RBR200035

Tot Ion: 56 Resp: 21918
Ion Ratio Lower Upper
56 100
69 205.3 22.8 34.2#
84 167.4 64.9 97.3#

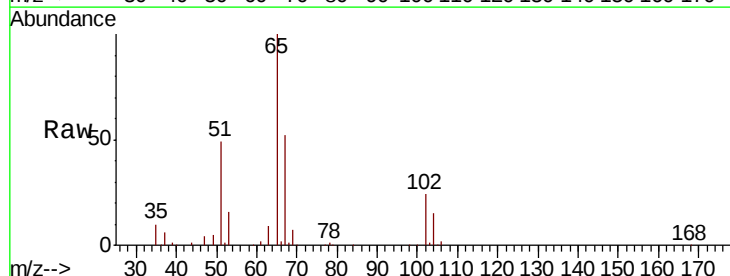


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

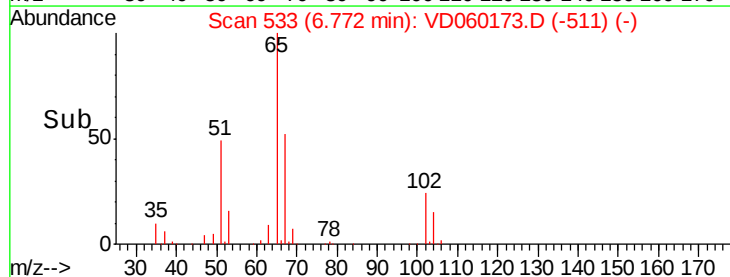
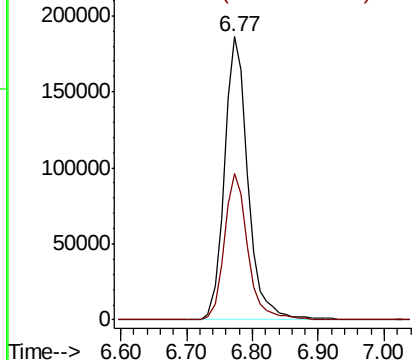


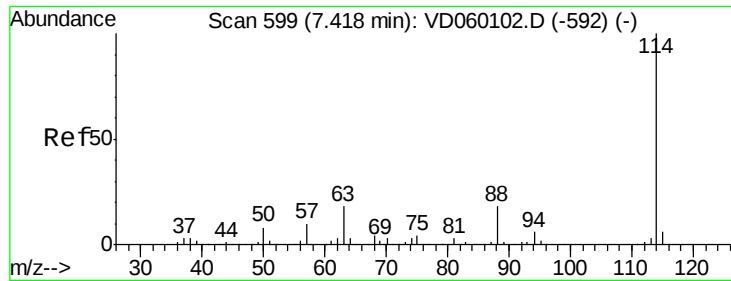
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.77 min Scan# 533
Delta R.T. 0.01 min
Lab File: VD060173.D
Acq: 10 Oct 2018 14:11

Tgt Ion: 65 Resp: 465332
Ion Ratio Lower Upper
65 100
67 51.8 0.0 106.2



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

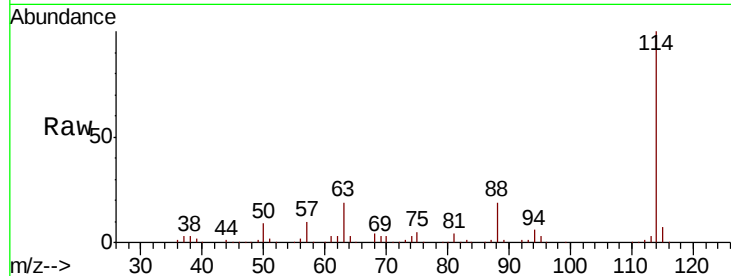




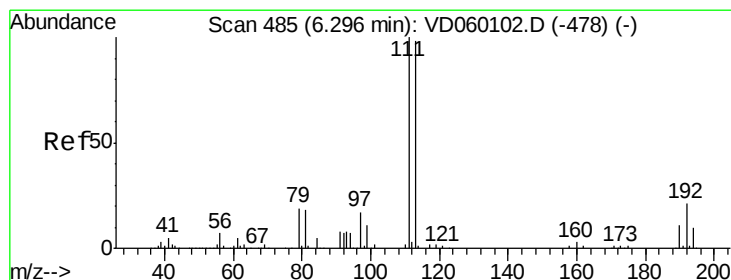
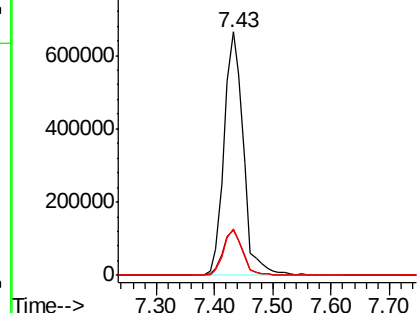
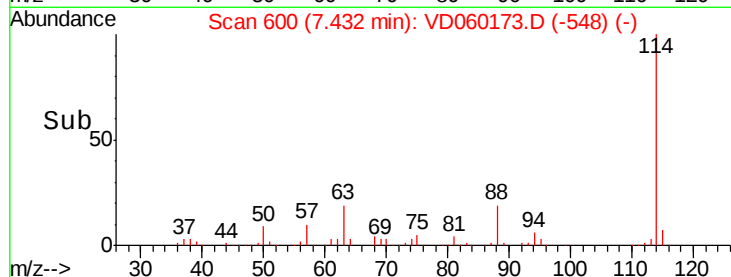
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.43 min Scan# 600
 Delta R.T. 0.01 min
 Lab File: VD060173.D
 Acq: 10 Oct 2018 14:11

Instrument :
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 RBR200035

Tot Ion:114 Resp: 1531397
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 36.0
 88 18.9 0.0 36.2

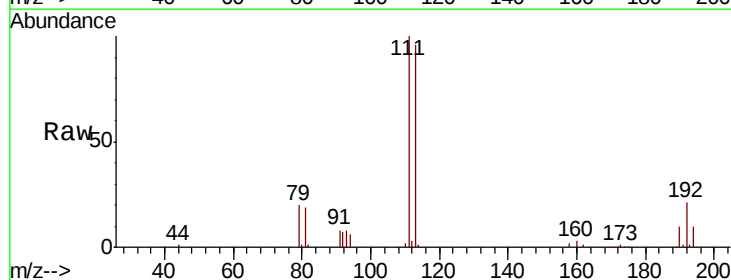


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

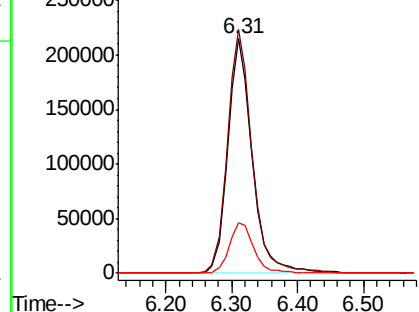
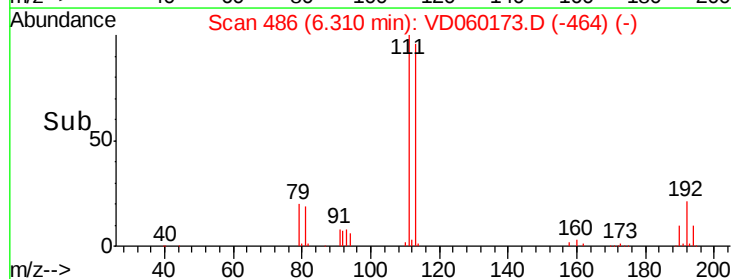


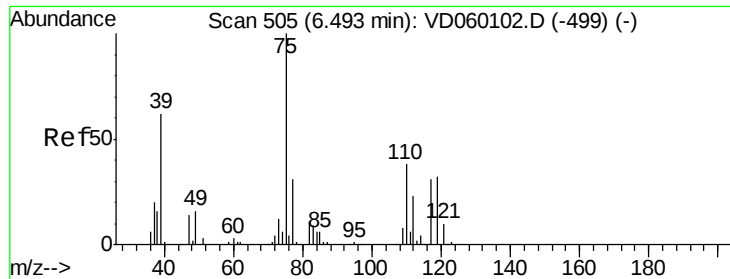
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.31 min Scan# 486
 Delta R.T. 0.01 min
 Lab File: VD060173.D
 Acq: 10 Oct 2018 14:11

Tgt Ion:113 Resp: 555439
 Ion Ratio Lower Upper
 113 100
 111 103.9 81.5 122.3
 192 21.6 17.4 26.0



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





#36

1,1-Dichloropropene

Concen: 5.533 ug/l

RT: 6.39 min Scan# 494

Delta R.T. -0.10 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

RBR200035

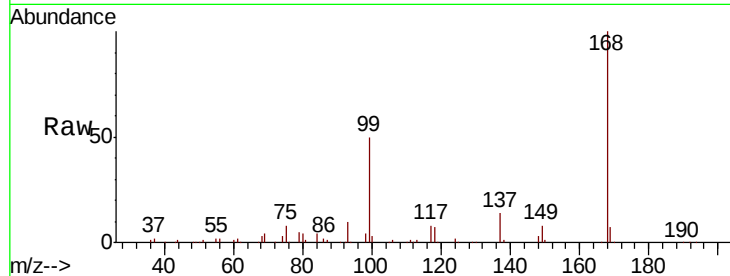
Tot Ion: 75 Resp: 80963

Ion Ratio Lower Upper

75 100

110 5.8 19.0 57.0#

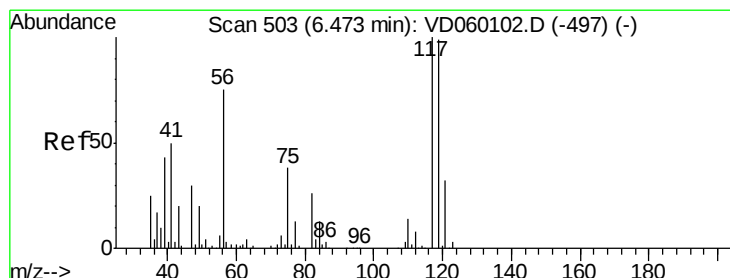
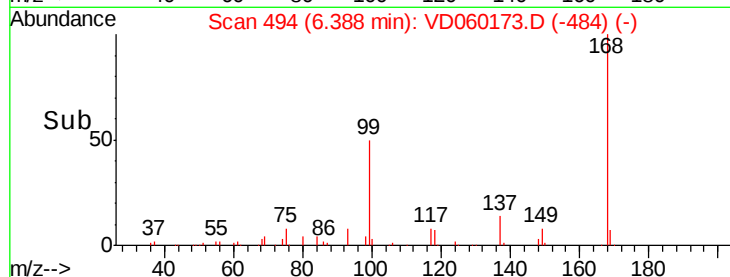
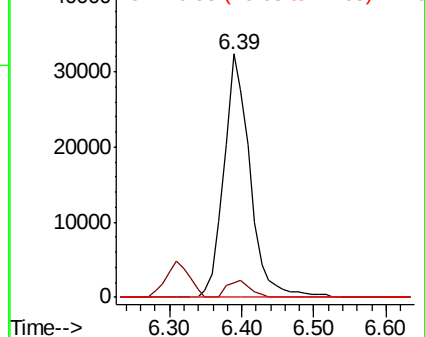
77 0.0 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 6.709 ug/l

RT: 6.40 min Scan# 495

Delta R.T. -0.07 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

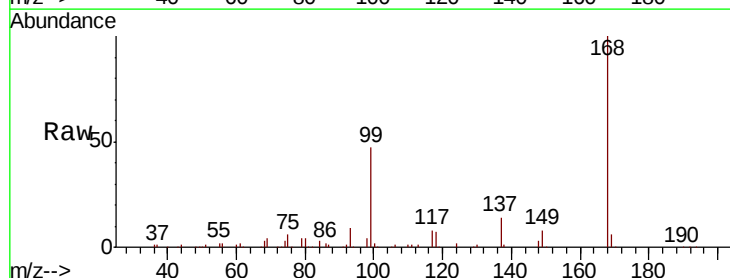
Tgt Ion: 117 Resp: 89106

Ion Ratio Lower Upper

117 100

119 4.9 77.8 116.6#

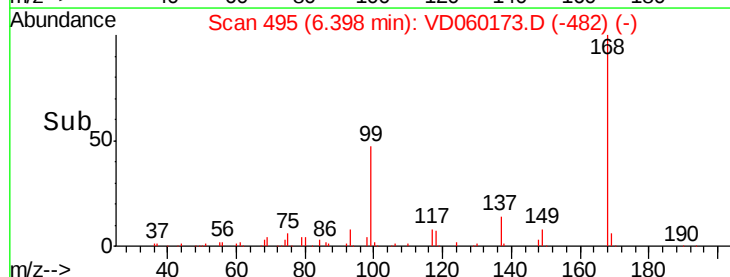
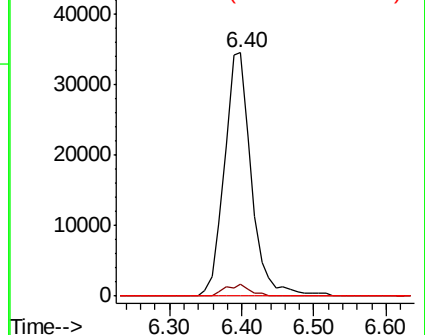
121 0.0 24.8 37.2#

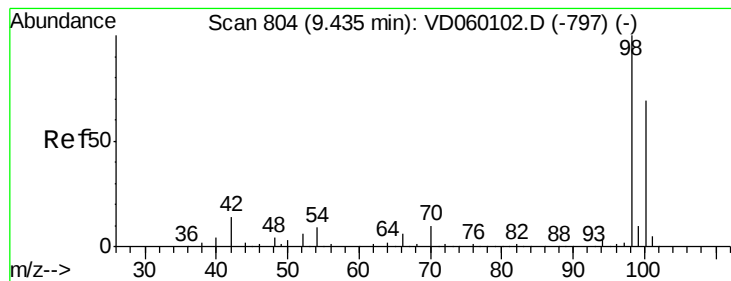


Abundance Ion 116.85 (116.55 to 117.55): V

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: VD060173.D

Acq: 10 Oct 2018 14:11

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ClientSampleId :

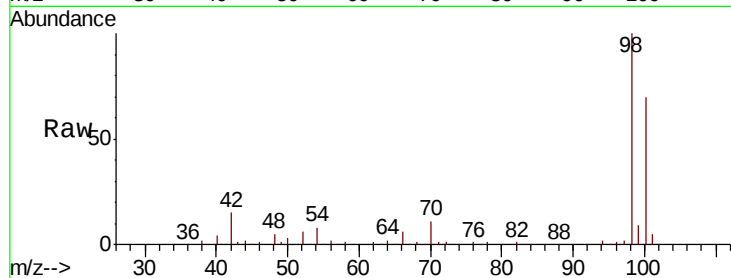
RBR200035

Tot Ion: 98 Resp: 1494013

Ion Ratio Lower Upper

98 100

100 69.7 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VD060102.D (-797) (-)

Ion 100.05 (99.75 to 100.75): VD060102.D (-797) (-)

800000

600000

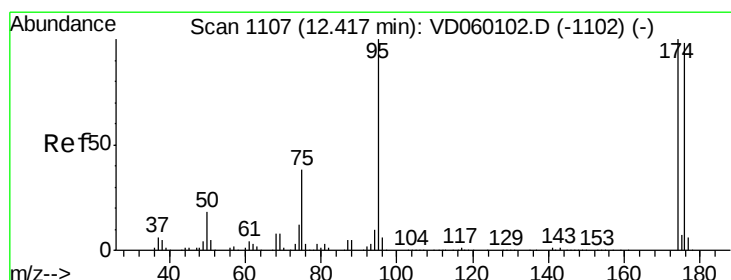
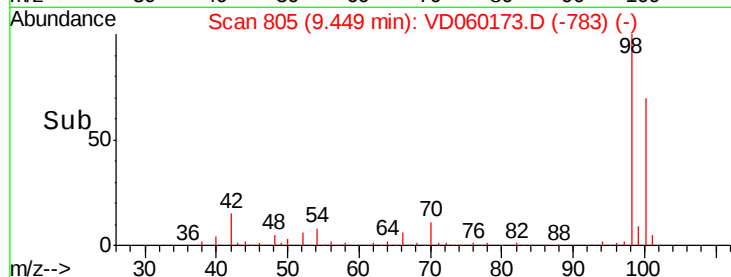
400000

200000

0

9.30 9.40 9.50 9.60 9.70

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

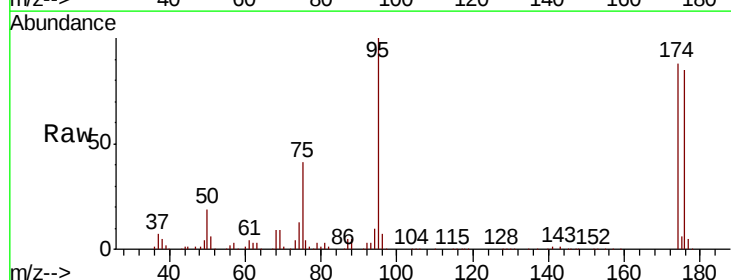
Tgt Ion: 95 Resp: 570853

Ion Ratio Lower Upper

95 100

174 87.8 0.0 200.2

176 85.1 0.0 195.6



Abundance Ion 95.00 (94.70 to 95.70): VD060102.D (-1102) (-)

Ion 173.90 (173.60 to 174.60): VD060102.D (-1102) (-)

Ion 175.90 (175.60 to 176.60): VD060102.D (-1102) (-)

500000

400000

300000

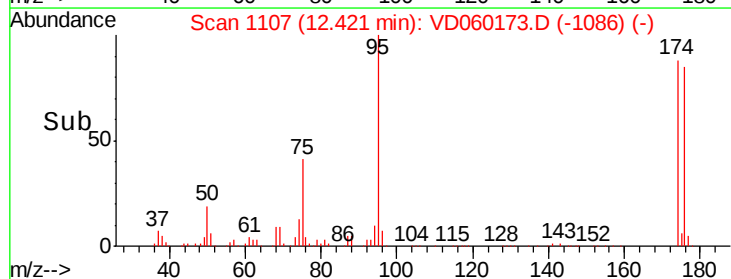
200000

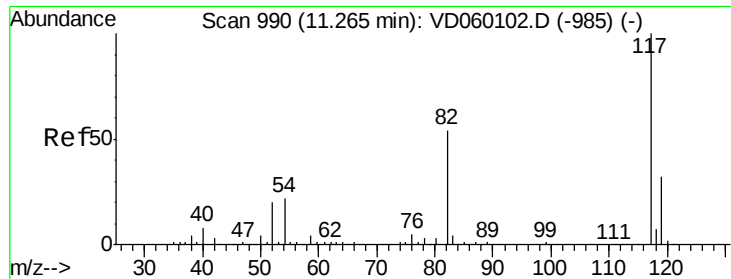
100000

0

12.40 12.42 12.44 12.46 12.48 12.50

Time-->

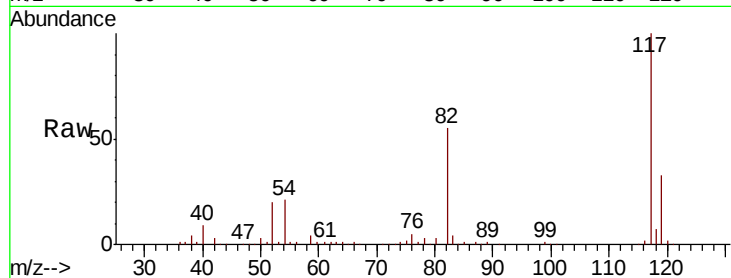




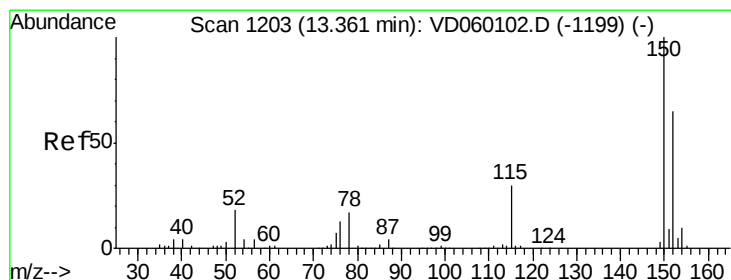
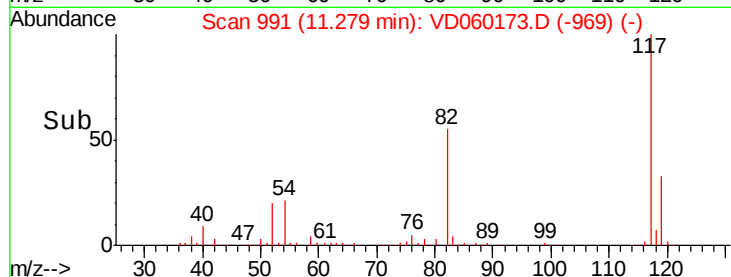
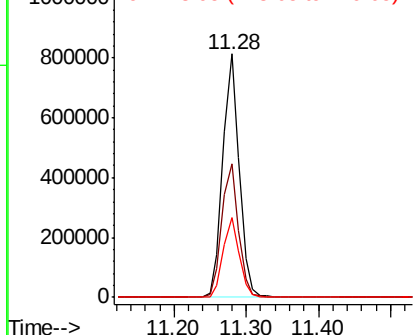
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD060173.D
Acq: 10 Oct 2018 14:11

Instrument :
MSVOA_D
ClientSampleId :
RBR200035

Tot Ion:117 Resp: 1279223
Ion Ratio Lower Upper
117 100
82 54.7 43.4 65.2
119 32.8 26.0 39.0

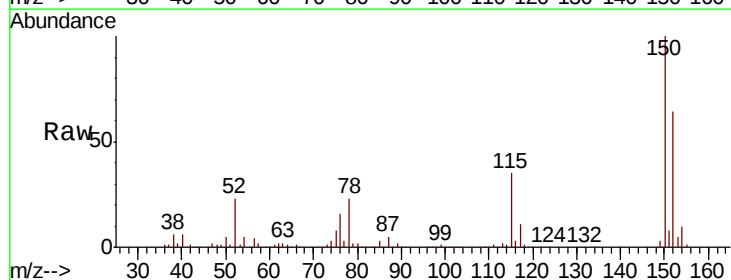


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

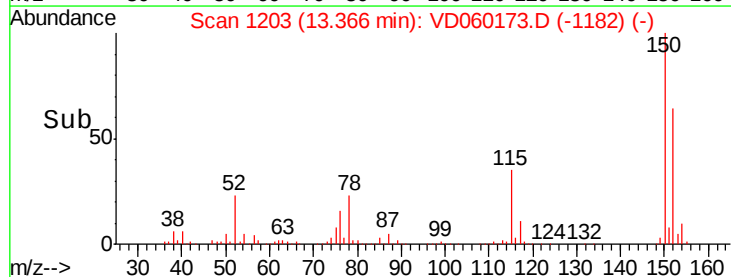
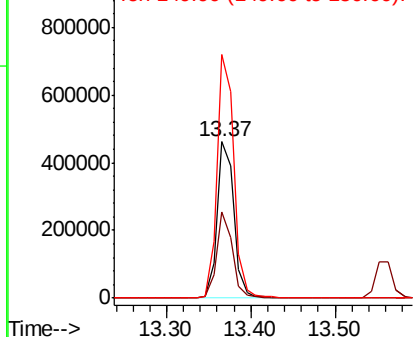


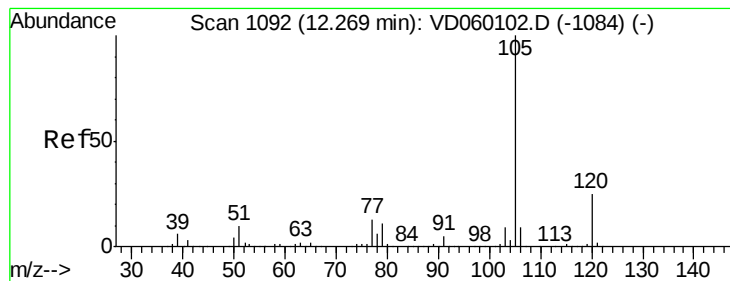
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1203
Delta R.T. 0.00 min
Lab File: VD060173.D
Acq: 10 Oct 2018 14:11

Tgt Ion:152 Resp: 637921
Ion Ratio Lower Upper
152 100
115 54.8 27.1 81.2
150 155.9 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





#73

Isopropylbenzene

Concen: 1.172 ug/l

RT: 12.26 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

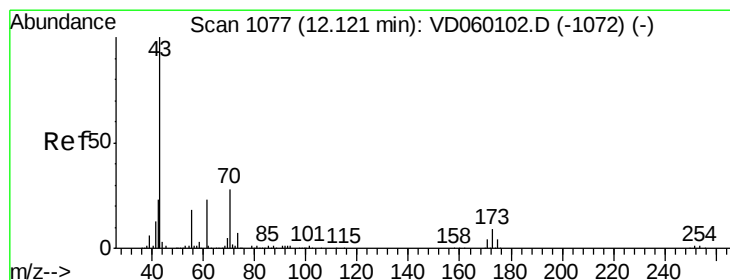
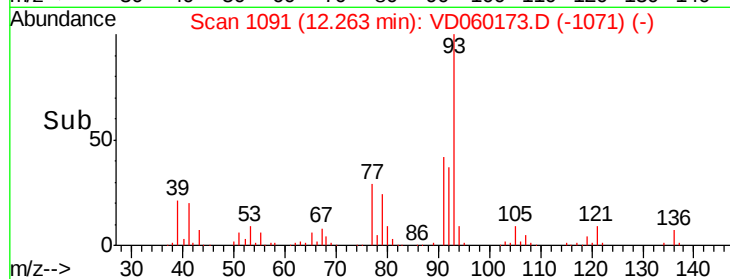
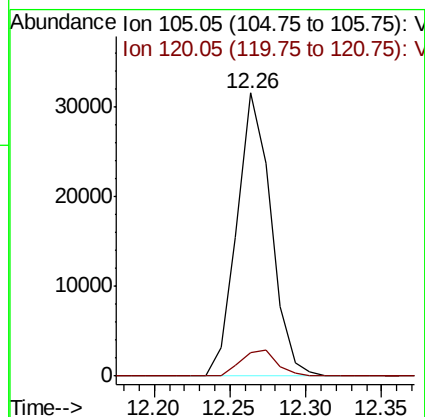
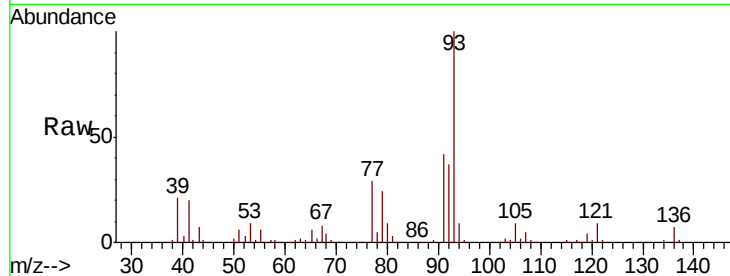
RBR200035

Tot Ion:105 Resp: 49329

Ion Ratio Lower Upper

105 100

120 8.3 12.6 37.6#



#74

N-ethyl acetate

Concen: 2.448 ug/l

RT: 12.26 min Scan# 1091

Delta R.T. 0.14 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

Tgt Ion: 43 Resp: 37730

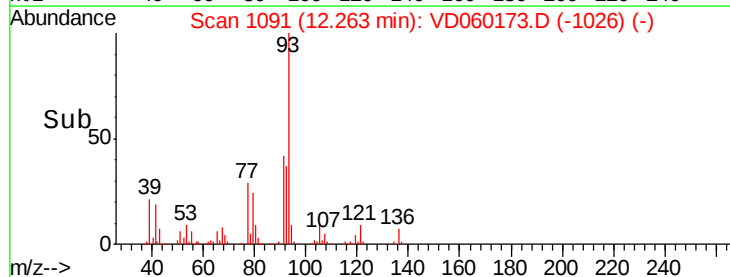
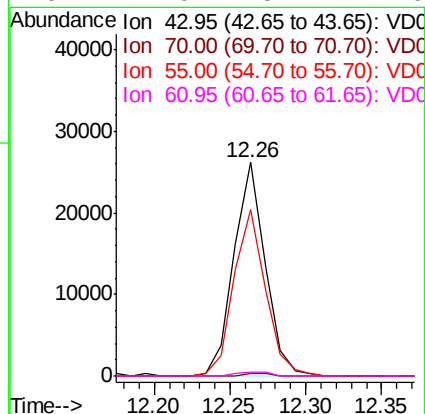
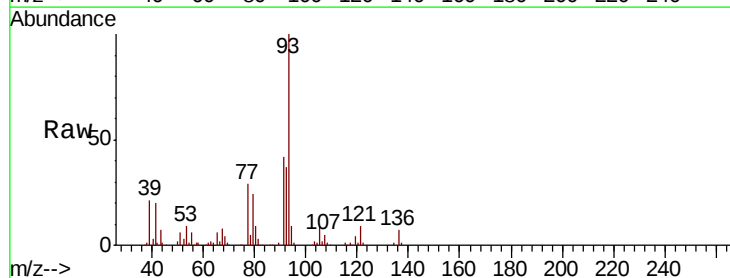
Ion Ratio Lower Upper

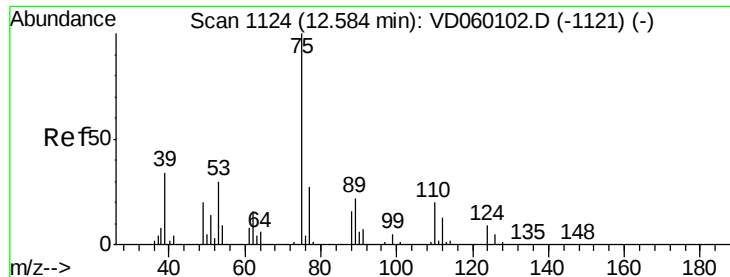
43 100

70 1.2 22.1 33.1#

55 77.8 14.1 21.1#

61 2.0 18.4 27.6#





#76

1,2,3-Trichloropropane

Concen: 24.841 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.16 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

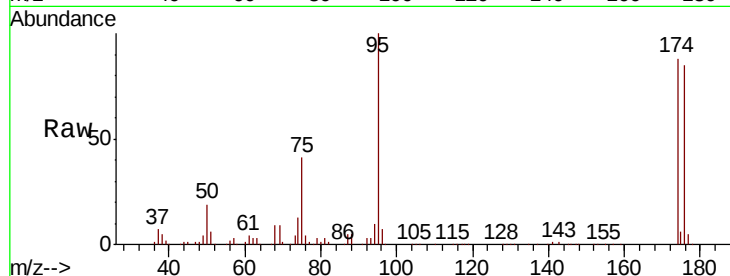
RBR200035

Tot Ion: 75 Resp: 228212

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

12.42

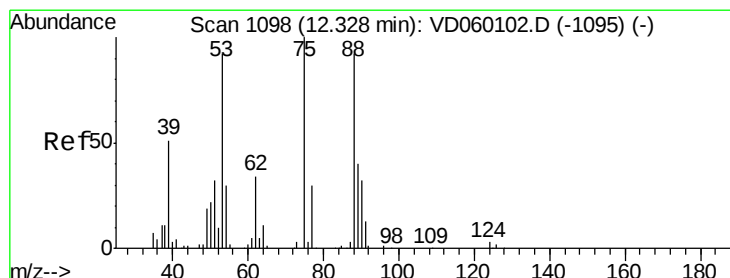
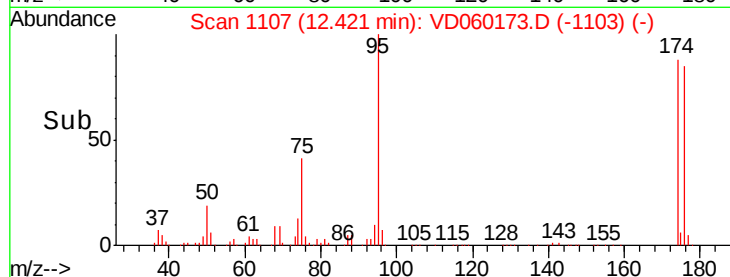
150000

100000

50000

0

Time--> 12.35 12.40 12.45 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 90.305 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.09 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

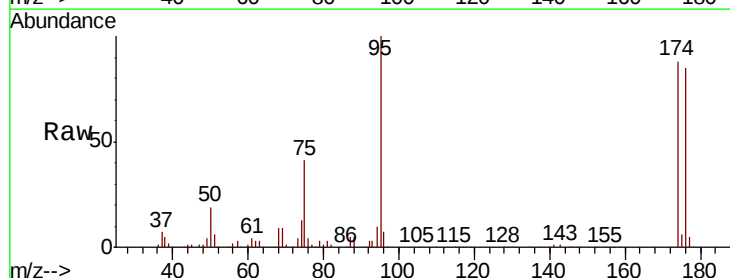
Tgt Ion: 75 Resp: 233113

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

12.42

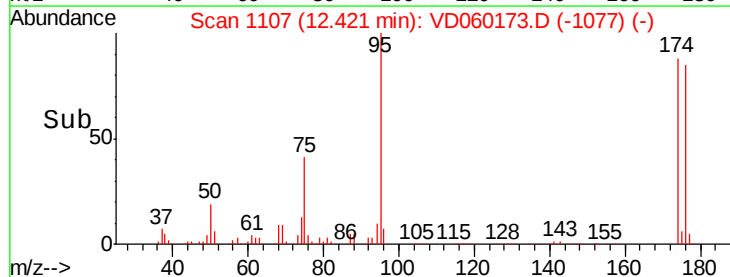
150000

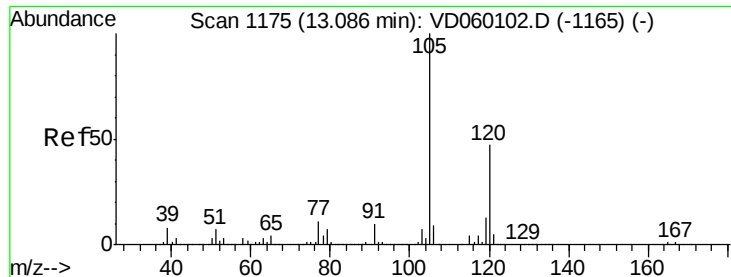
100000

50000

0

Time--> 12.35 12.40 12.45 12.50





#84

1,2,4-Trimethylbenzene

Concen: 1.107 ug/l

RT: 13.09 min Scan# 1175

Delta R.T. 0.00 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

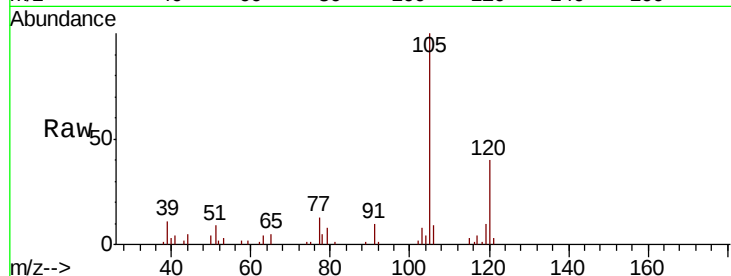
RBR200035

Tot Ion:105 Resp: 37996

Ion Ratio Lower Upper

105 100

120 39.6 23.4 70.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

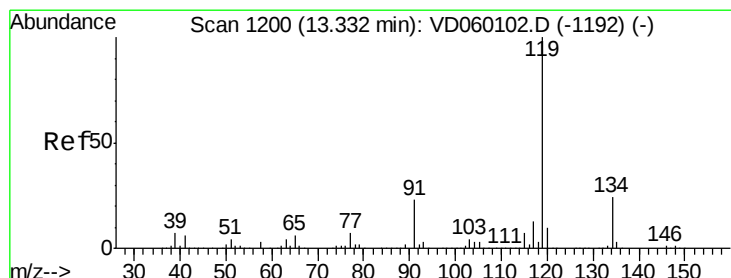
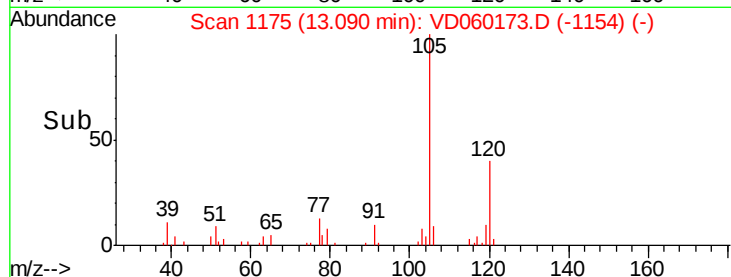
30000

20000

10000

0

Time-->



#86

p-Isopropyltoluene

Concen: 1.126 ug/l

RT: 13.34 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

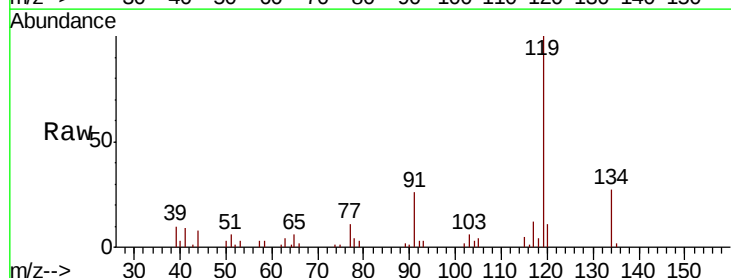
Tgt Ion:119 Resp: 40808

Ion Ratio Lower Upper

119 100

134 26.9 12.3 36.8

91 26.5 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

40000

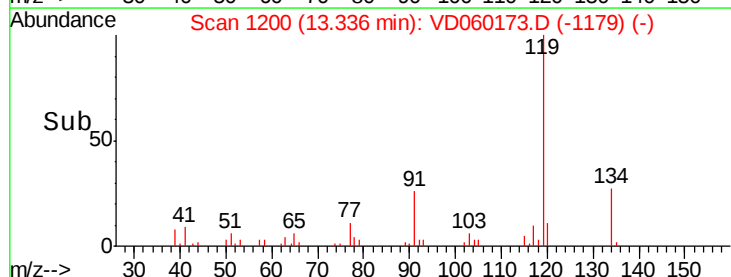
30000

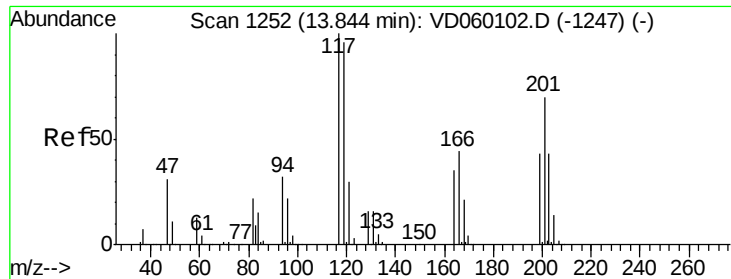
20000

10000

0

Time-->





#90

Hexachloroethane

Concen: 10.888 ug/l

RT: 13.94 min Scan# 1261

Delta R.T. 0.09 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

Instrument :

MSVOA_D

ClientSampleId :

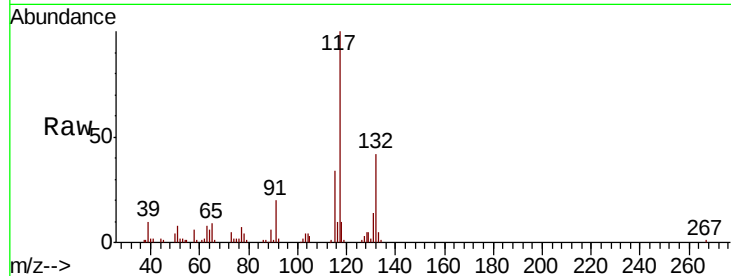
RBR200035

Tot Ion:117 Resp: 91339

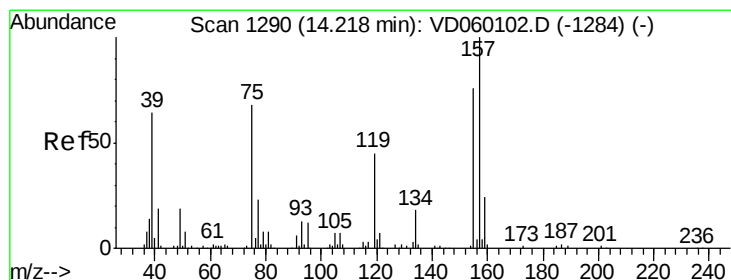
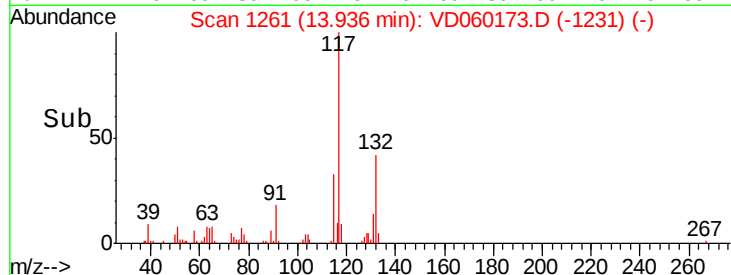
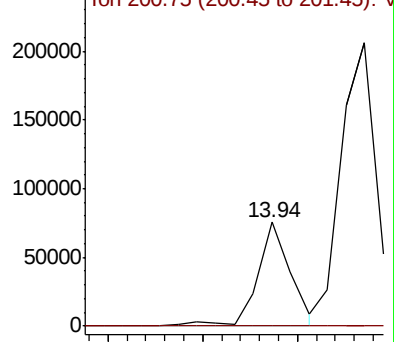
Ion Ratio Lower Upper

117 100

201 0.0 34.8 104.5#



Abundance Ion 116.85 (116.55 to 117.55): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.717 ug/l

RT: 14.23 min Scan# 1291

Delta R.T. 0.01 min

Lab File: VD060173.D

Acq: 10 Oct 2018 14:11

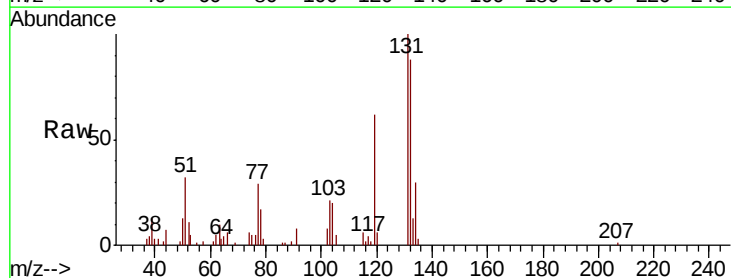
Tgt Ion: 75 Resp: 2106

Ion Ratio Lower Upper

75 100

155 0.0 55.9 167.7#

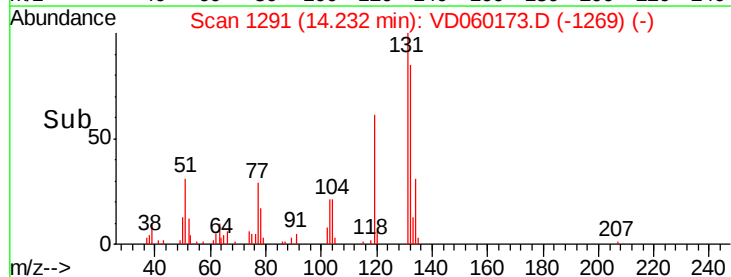
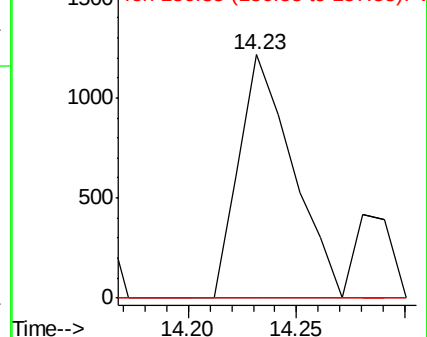
157 0.0 73.3 219.8#

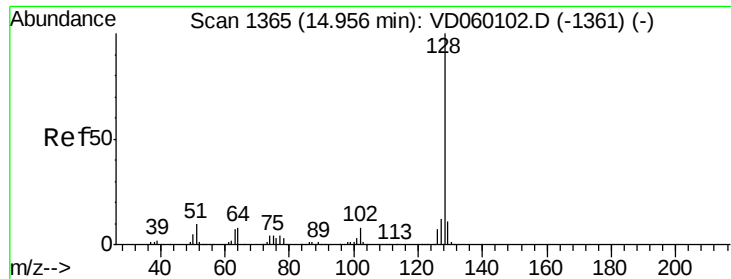


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

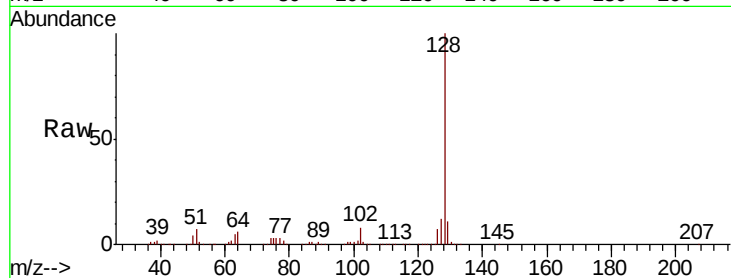




#95
Naphthalene
Concen: 106.969 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VD060173.D
Acq: 10 Oct 2018 14:11

Instrument :
MSVOA_D
ClientSampleId :
RBR200035

Tot Ion:128 Resp: 2411160
Ion Ratio Lower Upper
128 100
127 12.2 9.9 14.9
129 11.3 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

