

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042519\
 Data File : VD062041.D
 Acq On : 25 Apr 2019 16:21
 Operator : VA/AP
 Sample : K2544-01RE
 Misc : 5.65u/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 26 01:14:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	6289	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.21	114	11468	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.37	117	9977	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	3314	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	4946	100.48	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	200.96%	
35) Dibromofluoromethane	6.91	113	3951	49.82	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	99.64%	
50) Toluene-d8	10.41	98	9251	49.02	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	98.04%	
62) 4-Bromofluorobenzene	13.55	95	3850	50.86	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	101.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	267	20.715	ug/l #	12
16) Acetone	3.21	43	3563	303.168	ug/l #	50
67) Ethyl Benzene	12.53	91	1004	3.263	ug/l #	44
68) m/p-Xylenes	12.66	106	235	2.113	ug/l #	60
69) o-Xylene	13.05	106	1578	15.507	ug/l	41
74) N-amyl acetate	13.34	43	185	3.249	ug/l #	49
78) n-propylbenzene	13.77	91	990	3.912	ug/l #	54
79) 2-Chlorotoluene	13.88	91	177	1.155	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.93	105	3995	22.664	ug/l	77
81) trans-1,4-Dichloro-2-buten	13.55	75	1615	126.639	ug/l #	16
82) 4-Chlorotoluene	13.93	91	329	1.949	ug/l #	37
84) 1,2,4-Trimethylbenzene	14.24	105	2018	11.990	ug/l	96
85) sec-Butylbenzene	14.37	105	236	1.070	ug/l #	60
86) p-Isopropyltoluene	14.43	119	4533	22.956	ug/l	92
87) 1,3-Dichlorobenzene	14.53	146	180	1.621	ug/l #	25
88) 1,4-Dichlorobenzene	14.53	146	180	1.733	ug/l #	25
89) n-Butylbenzene	14.78	91	3565	20.109	ug/l #	1
90) Hexachloroethane	15.06	117	914	17.117	ug/l #	20
95) Naphthalene	16.12	128	284	3.559	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD062041.D

Acq: 25 Apr 2019 16:21

Instrument :

MSVOA_D

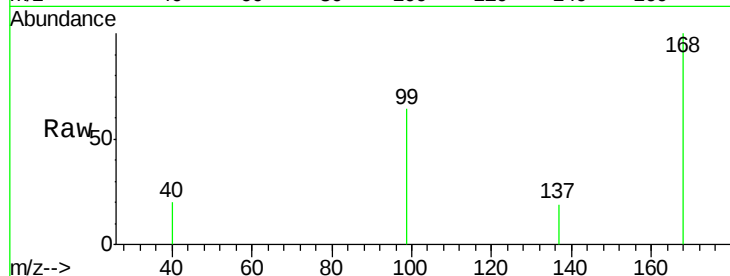
ClientSampleId :

Tot Ion:168 Resp: 6289

Ion Ratio Lower Upper

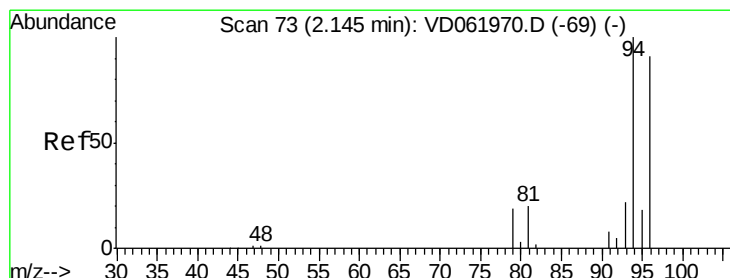
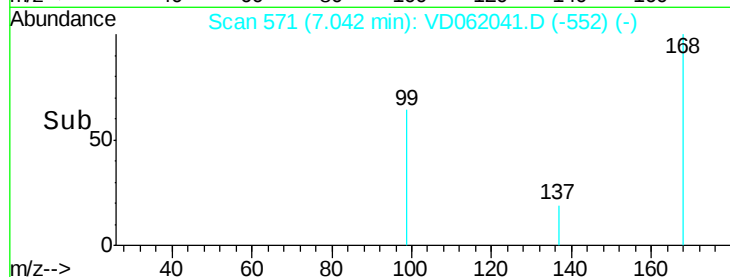
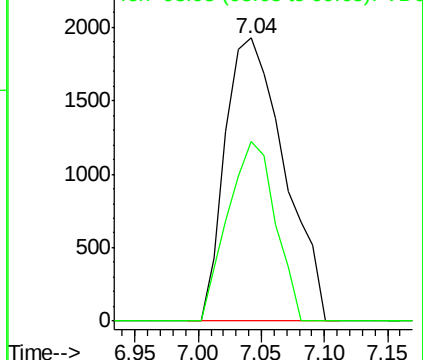
168 100

99 63.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 20.715 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.01 min

Lab File: VD062041.D

Acq: 25 Apr 2019 16:21

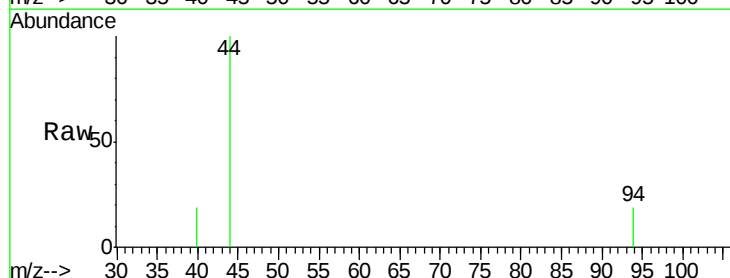
Tgt Ion: 94 Resp: 267

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

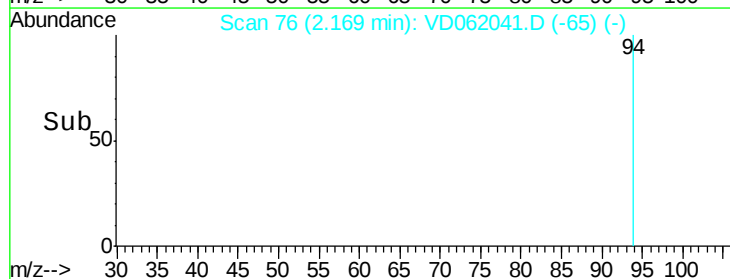
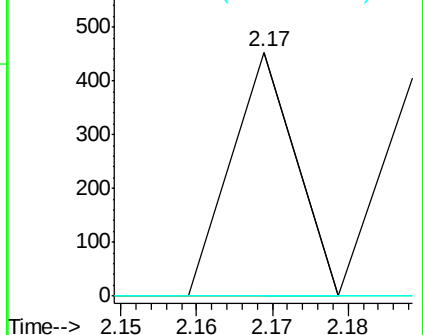
93 0.0 18.5 27.7#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#16

Acetone

Concen: 303.168 ug/l

RT: 3.21 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD062041.D

Acq: 25 Apr 2019 16:21

Instrument :

MSVOA_D

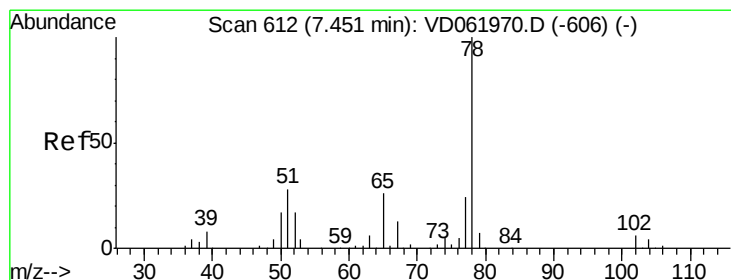
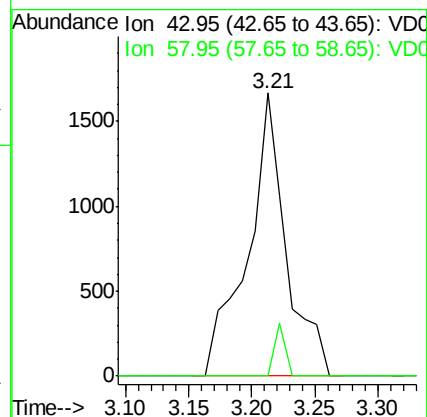
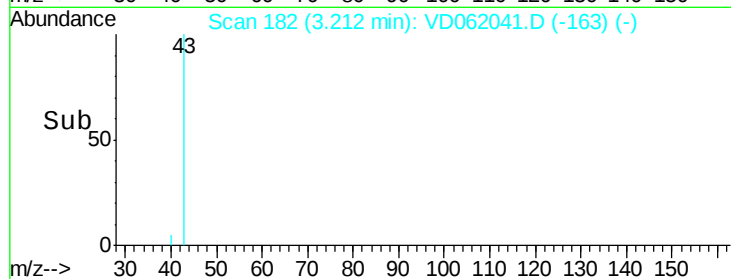
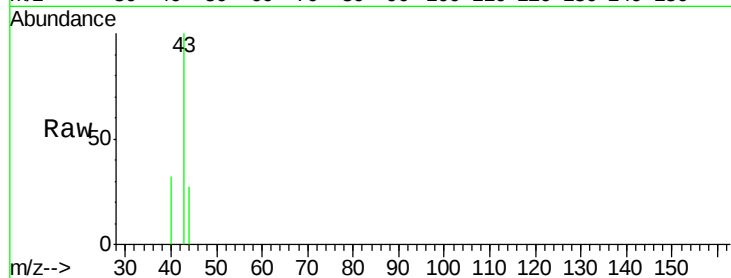
ClientSampleId :

Tot Ion: 43 Resp: 3563

Ion Ratio Lower Upper

43 100

58 0.0 19.9 29.9#



#33

1,2-Dichloroethane-d4

Concen: 100.485 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD062041.D

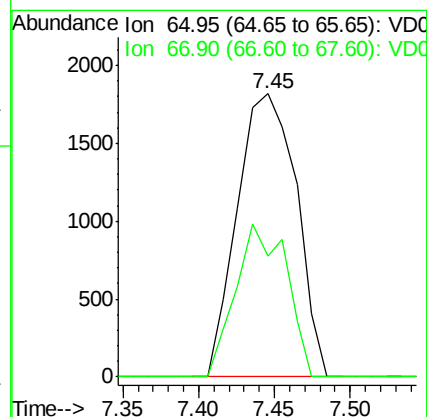
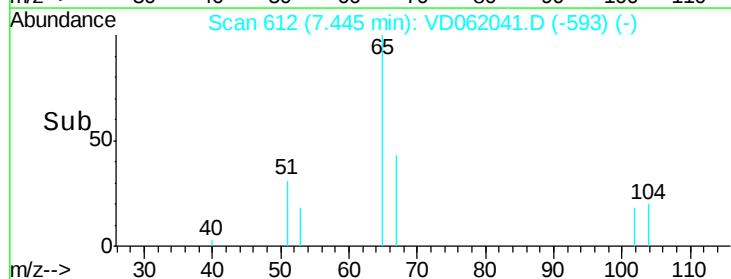
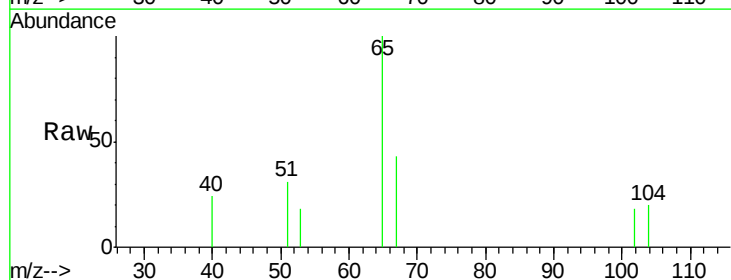
Acq: 25 Apr 2019 16:21

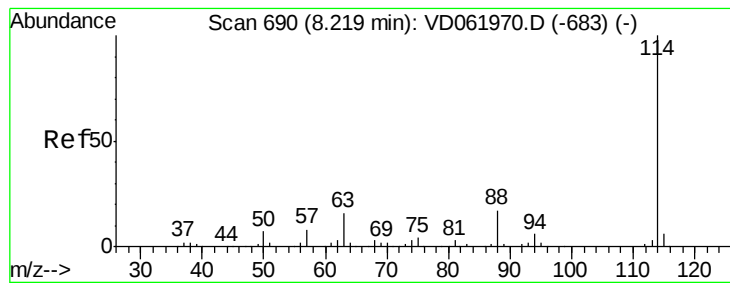
Tgt Ion: 65 Resp: 4946

Ion Ratio Lower Upper

65 100

67 42.8 0.0 98.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 690

Delta R.T. -0.01 min

Lab File: VD062041.D

Acq: 25 Apr 2019 16:21

Instrument :

MSVOA_D

ClientSampleId :

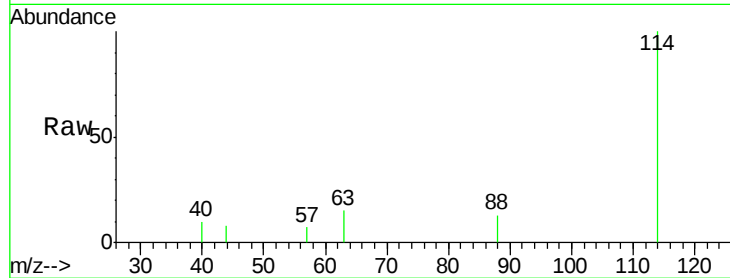
Tot Ion:114 Resp: 11468

Ion Ratio Lower Upper

114 100

63 15.5 0.0 32.4

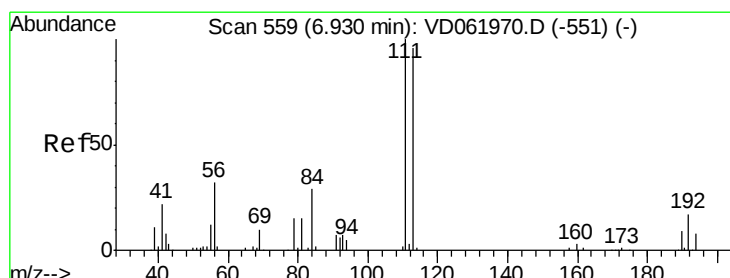
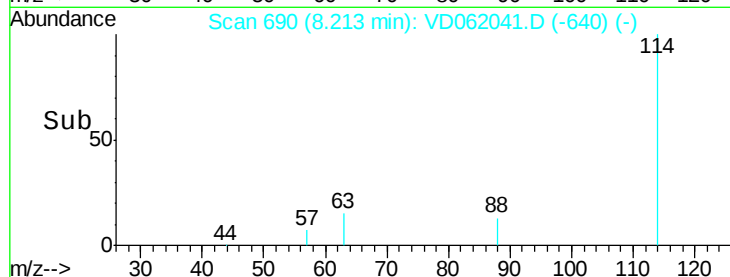
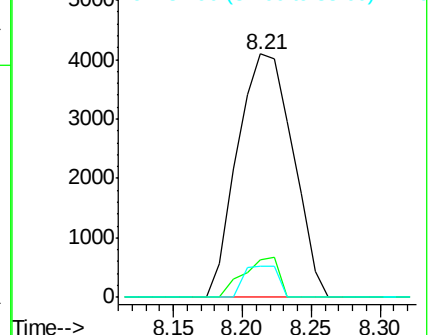
88 12.7 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 49.816 ug/l

RT: 6.91 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD062041.D

Acq: 25 Apr 2019 16:21

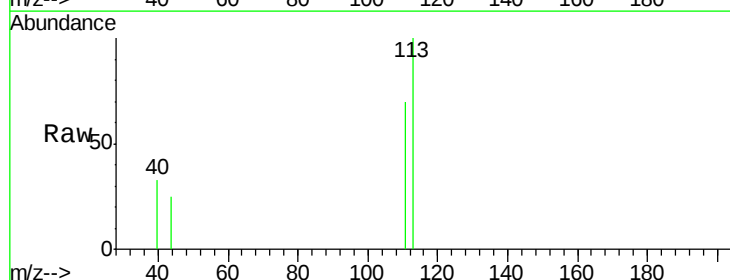
Tgt Ion:113 Resp: 3951

Ion Ratio Lower Upper

113 100

111 69.7 78.5 117.7#

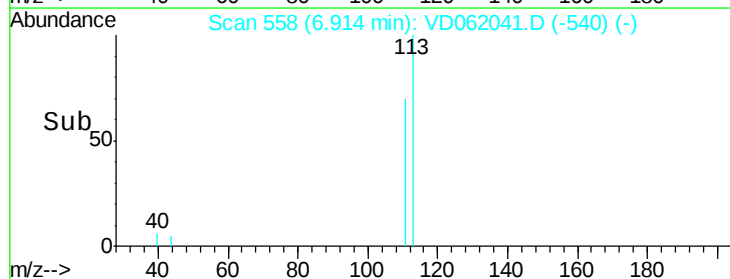
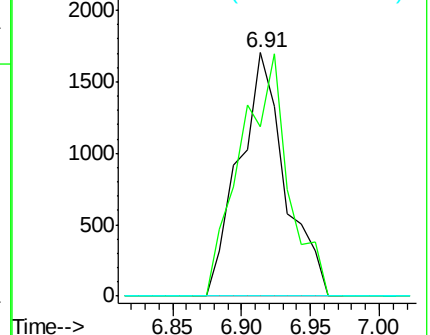
192 0.0 13.0 19.4#

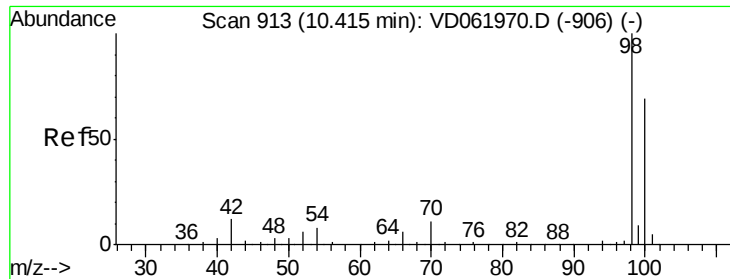


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

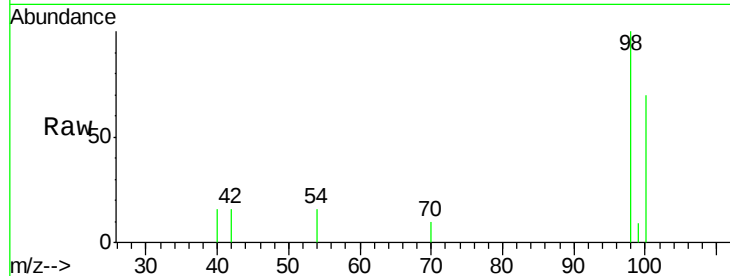




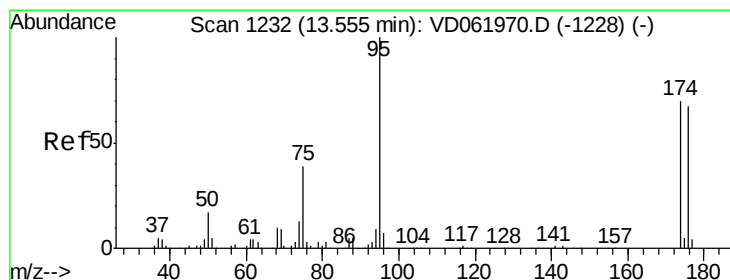
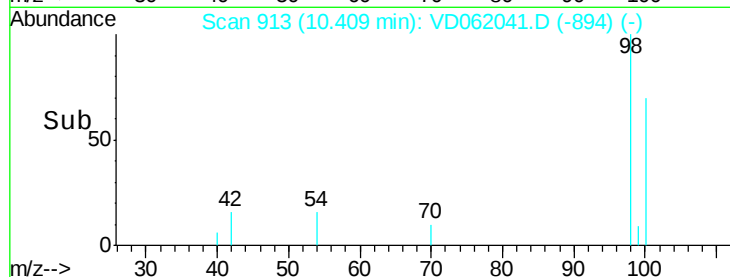
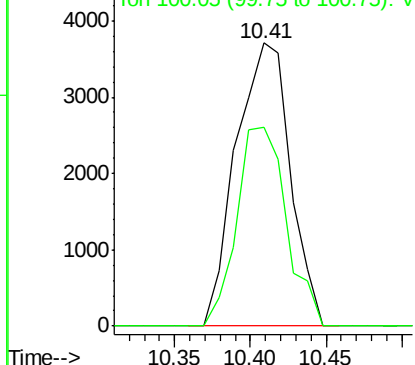
#50
Toluene-d8
Concen: 49.019 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.01 min
Lab File: VD062041.D
Acq: 25 Apr 2019 16:21

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 9251
Ion Ratio Lower Upper
98 100
100 70.2 53.8 80.8

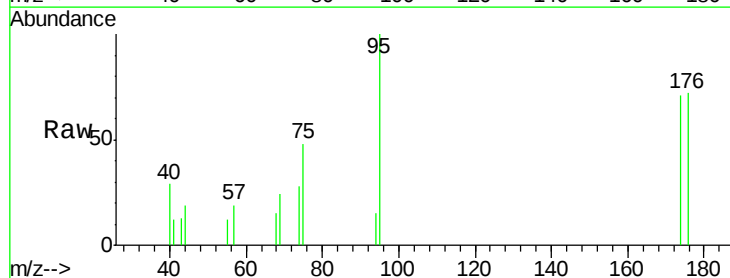


Abundance Ion 98.05 (97.75 to 98.75): VD061970.D (-906) (-)
Ion 100.05 (99.75 to 100.75): VD061970.D (-906) (-)

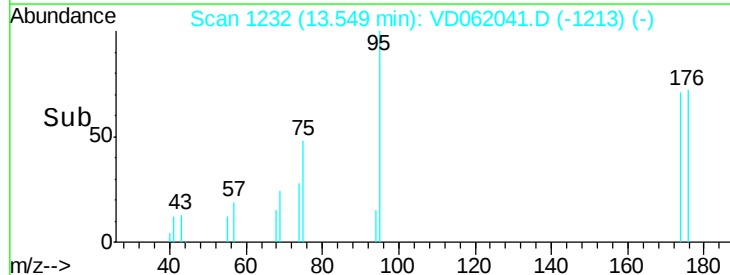
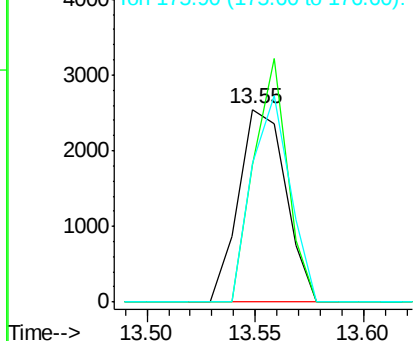


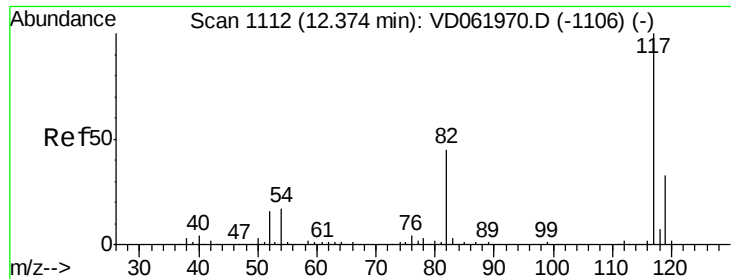
#62
4-Bromofluorobenzene
Concen: 50.862 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD062041.D
Acq: 25 Apr 2019 16:21

Tgt Ion: 95 Resp: 3850
Ion Ratio Lower Upper
95 100
174 71.3 0.0 181.8
176 71.9 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VD061970.D (-1228) (-)
Ion 173.90 (173.60 to 174.60): VD061970.D (-1228) (-)
Ion 175.90 (175.60 to 176.60): VD061970.D (-1228) (-)

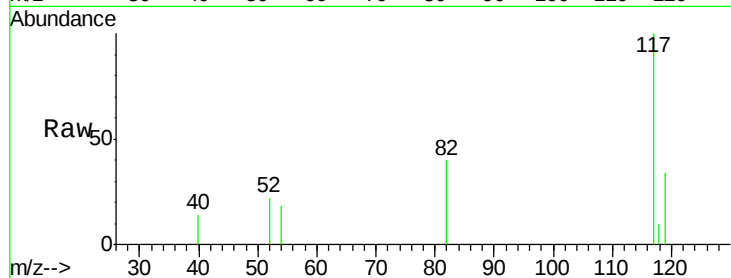




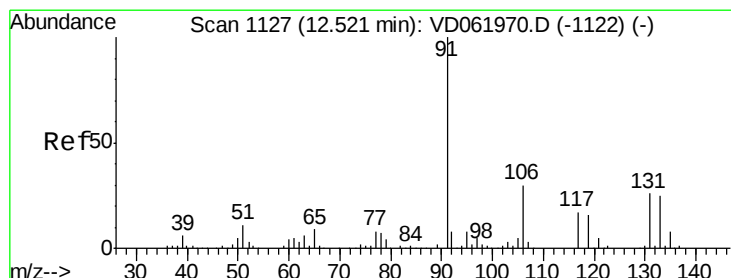
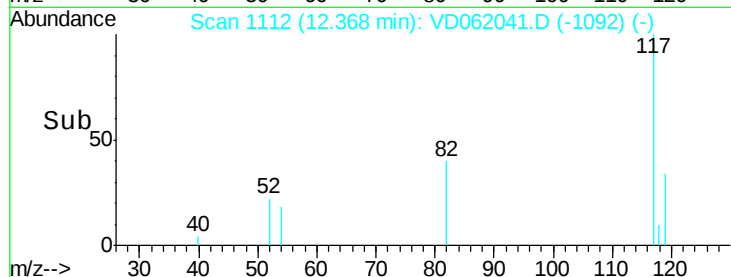
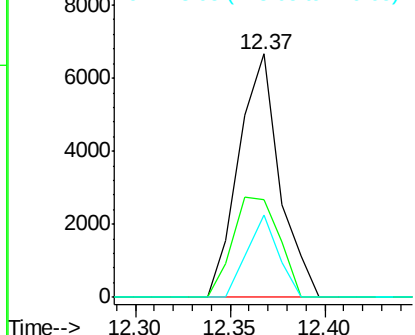
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD062041.D
Acq: 25 Apr 2019 16:21

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 9977
Ion Ratio Lower Upper
117 100
82 40.3 36.2 54.2
119 33.6 26.2 39.4

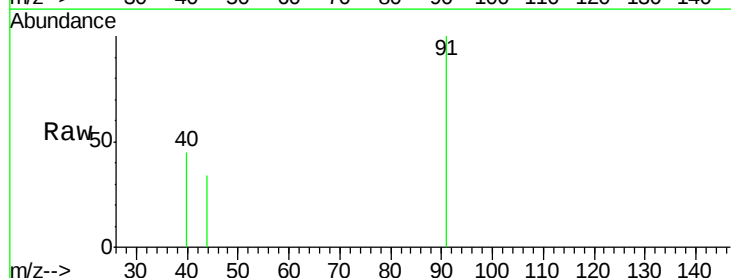


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

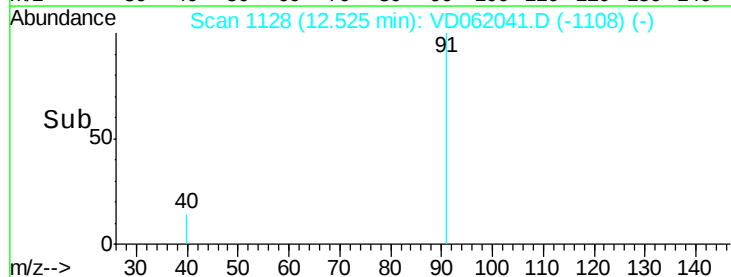
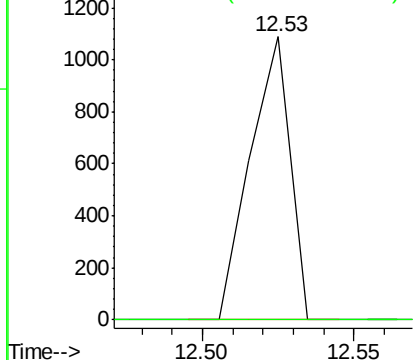


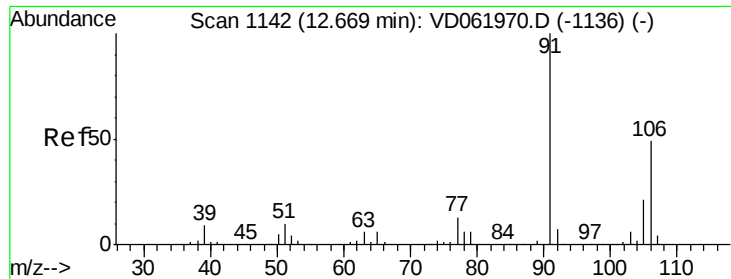
#67
Ethyl Benzene
Concen: 3.263 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VD062041.D
Acq: 25 Apr 2019 16:21

Tgt Ion: 91 Resp: 1004
Ion Ratio Lower Upper
91 100
106 0.0 24.7 37.1#



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.05 (105.75 to 106.75): V

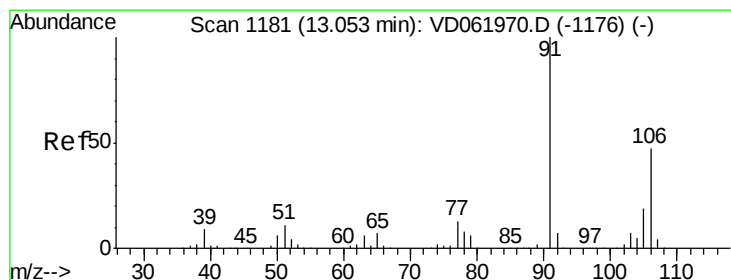
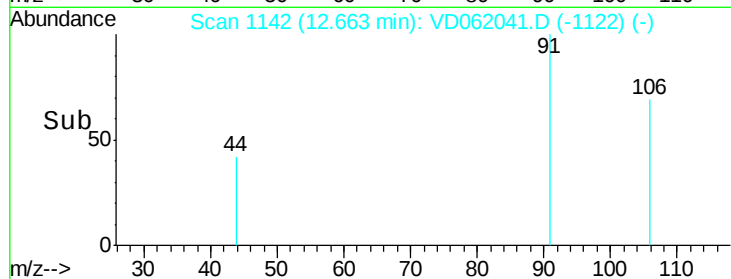
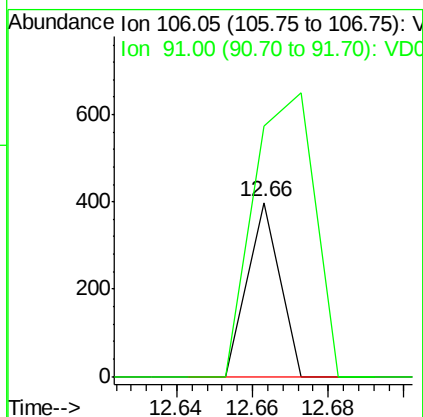
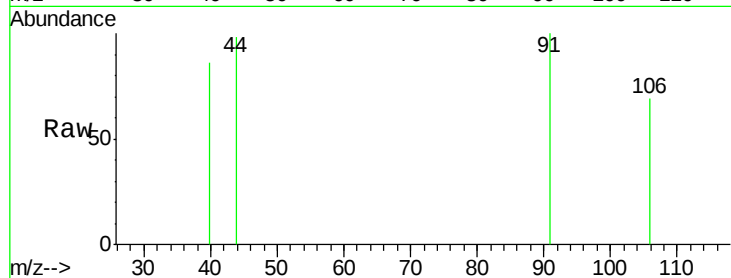




#68
m/p-Xylenes
Concen: 2.113 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD062041.D
Acq: 25 Apr 2019 16:21

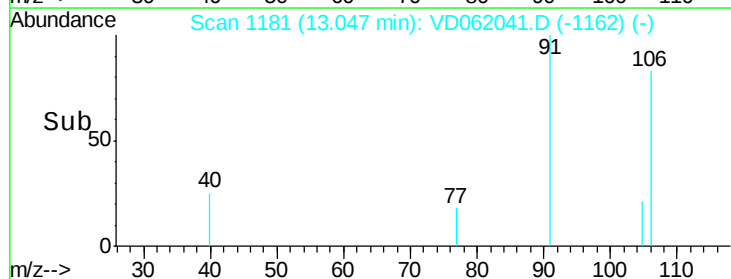
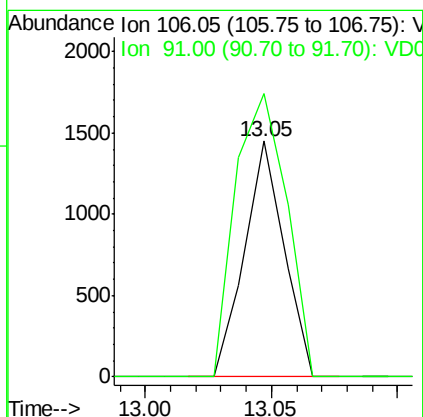
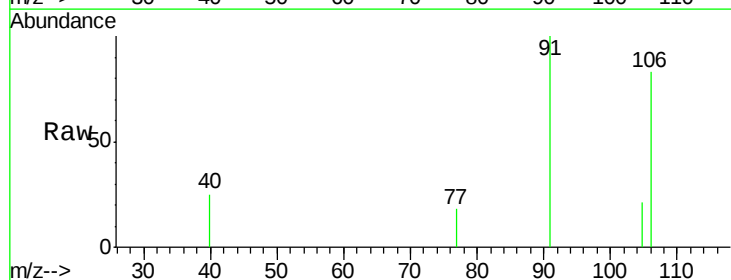
Instrument :
MSVOA_D
ClientSampleId :

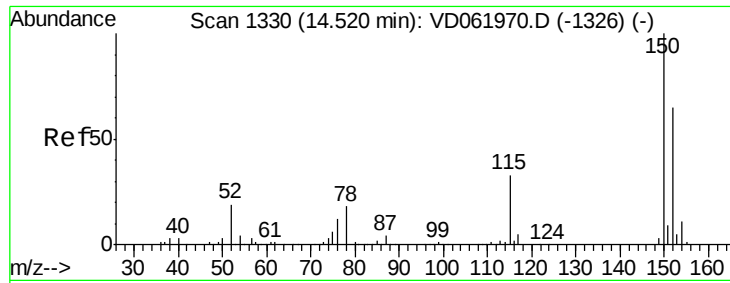
Tot Ion:106 Resp: 235
Ion Ratio Lower Upper
106 100
91 144.0 164.0 246.0#



#69
o-Xylene
Concen: 15.507 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD062041.D
Acq: 25 Apr 2019 16:21

Tgt Ion:106 Resp: 1578
Ion Ratio Lower Upper
106 100
91 120.2 106.7 319.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD062041.D

Acq: 25 Apr 2019 16:21

Instrument :

MSVOA_D

ClientSampleId :

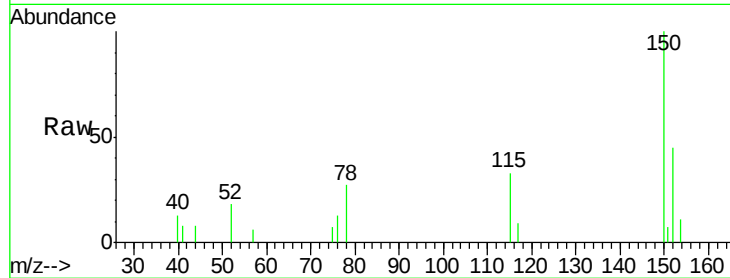
Tot Ion:152 Resp: 3314

Ion Ratio Lower Upper

152 100

115 73.0 30.9 92.7

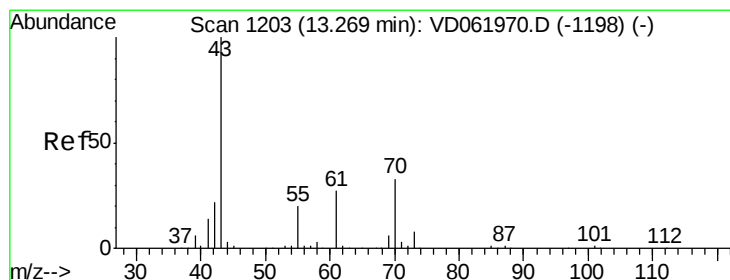
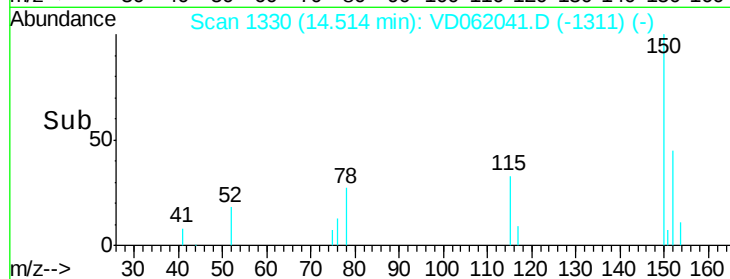
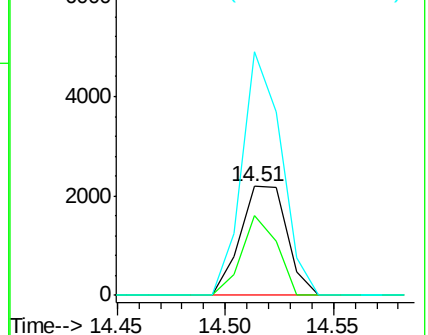
150 223.3 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 3.249 ug/l

RT: 13.34 min Scan# 1211

Delta R.T. 0.08 min

Lab File: VD062041.D

Acq: 25 Apr 2019 16:21

Tgt Ion: 43 Resp: 185

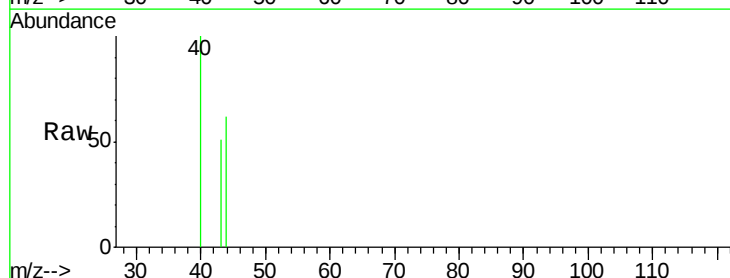
Ion Ratio Lower Upper

43 100

70 0.0 24.2 36.4#

55 0.0 16.0 24.0#

61 0.0 21.6 32.4#

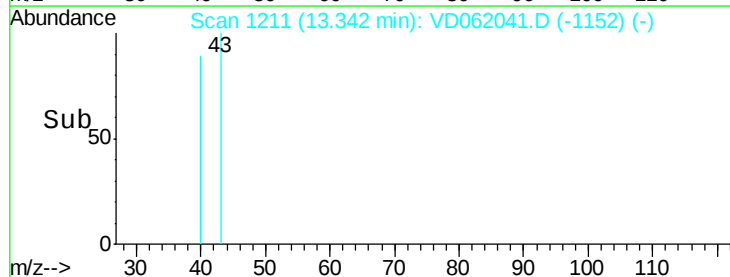
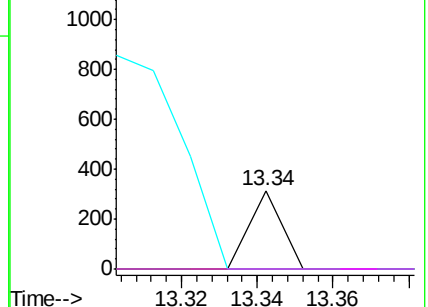


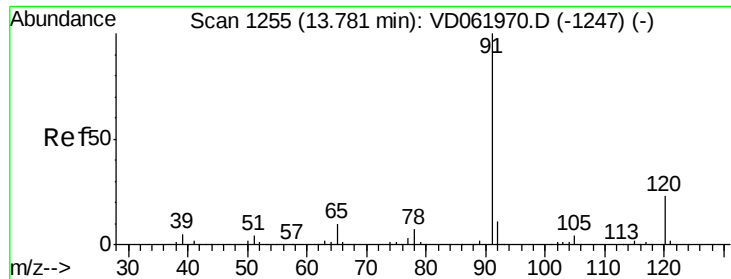
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#78

n-propylbenzene

Concen: 3.912 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VD062041.D

Acq: 25 Apr 2019 16:21

Instrument :

MSVOA_D

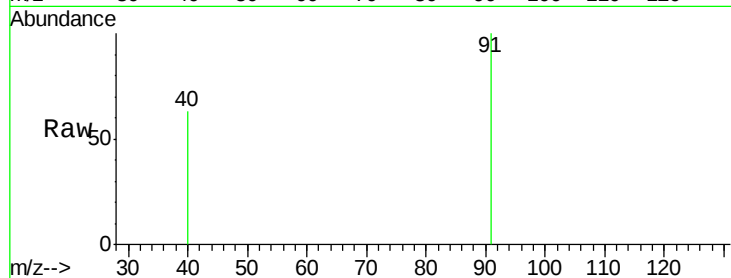
ClientSampled :

Tot Ion: 91 Resp: 990

Ion Ratio Lower Upper

91 100

120 0.0 11.1 33.1#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V

13.77

800

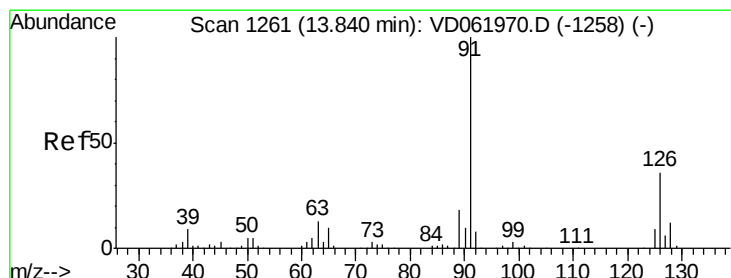
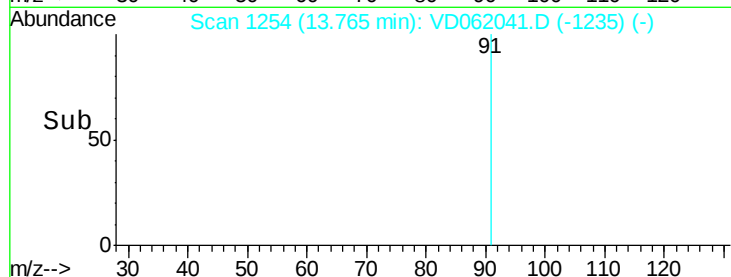
600

400

200

0

Time-->



#79

2-Chlorotoluene

Concen: 1.155 ug/l

RT: 13.88 min Scan# 1266

Delta R.T. 0.04 min

Lab File: VD062041.D

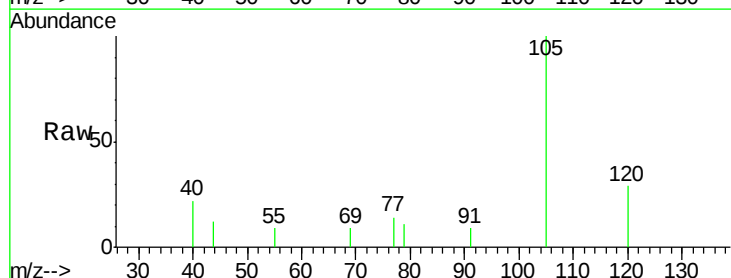
Acq: 25 Apr 2019 16:21

Tgt Ion: 91 Resp: 177

Ion Ratio Lower Upper

91 100

126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

13.88

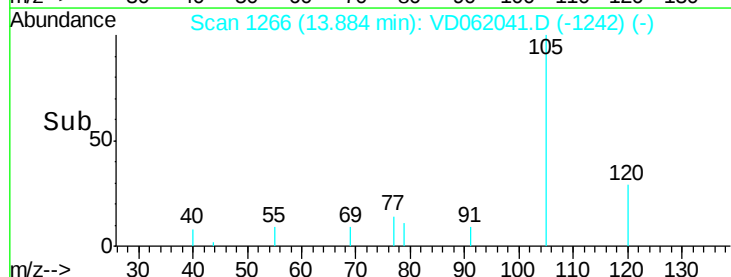
300

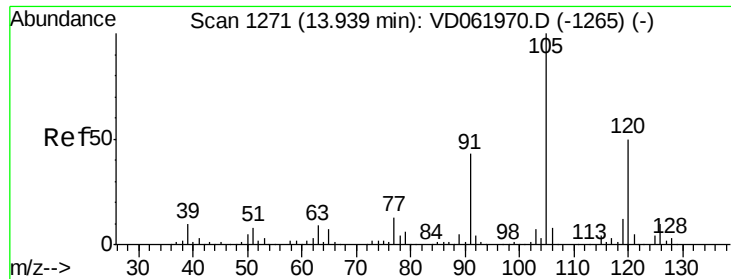
200

100

0

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 22.664 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VD062041.D

Acq: 25 Apr 2019 16:21

Instrument :

MSVOA_D

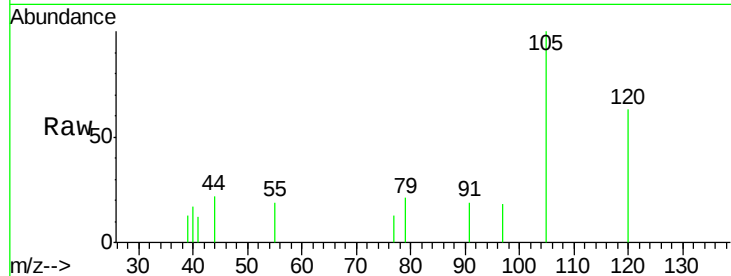
ClientSampleId :

Tot Ion:105 Resp: 3995

Ion Ratio Lower Upper

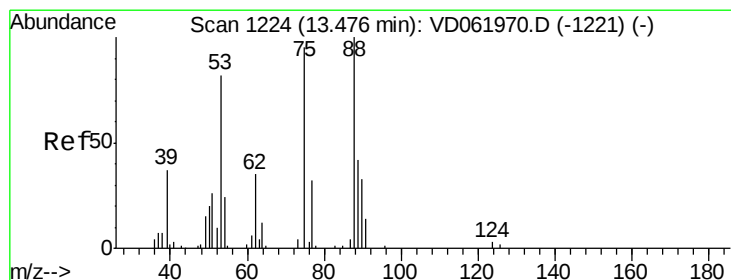
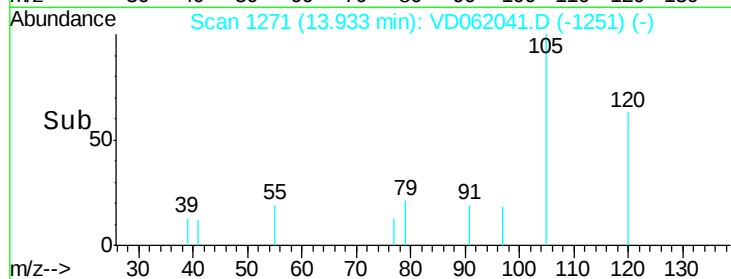
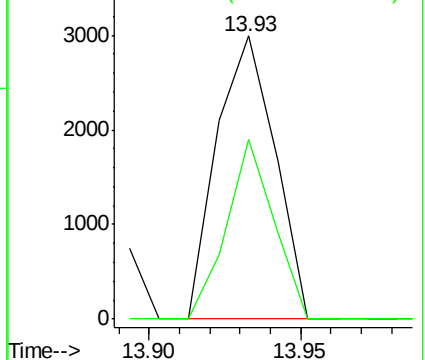
105 100

120 63.4 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 126.639 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD062041.D

Acq: 25 Apr 2019 16:21

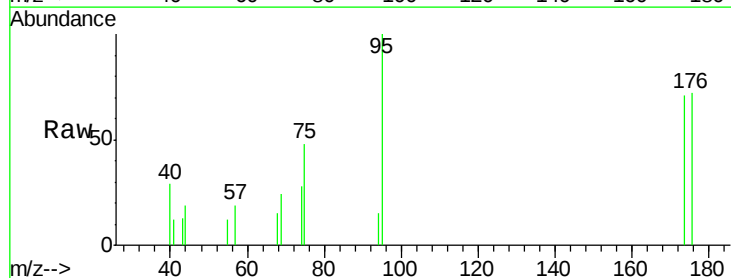
Tgt Ion: 75 Resp: 1615

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

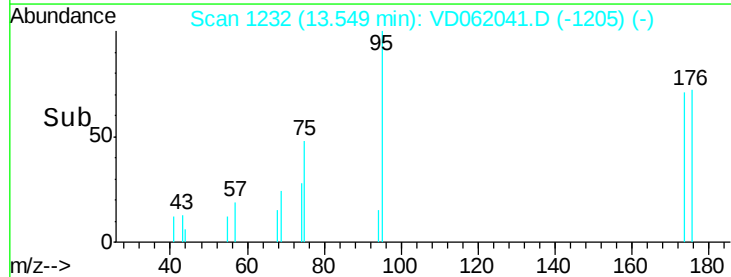
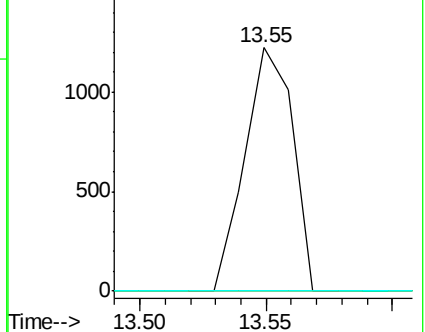
89 0.0 35.0 52.6#

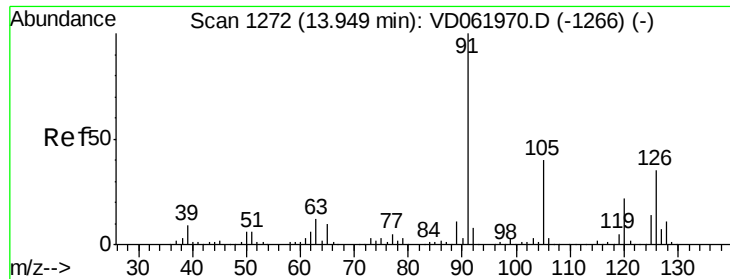


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82

4-Chlorotoluene

Concen: 1.949 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. -0.02 min

Lab File: VD062041.D

Acq: 25 Apr 2019 16:21

Instrument :

MSVOA_D

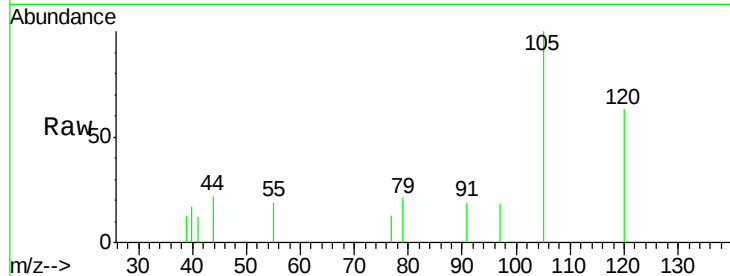
ClientSampleId :

Tot Ion: 91 Resp: 329

Ion Ratio Lower Upper

91 100

126 0.0 19.1 57.5#



Abundance Ion 91.00 (90.70 to 91.70): VD061970.D (-1266) (-)

Ion 125.95 (125.65 to 126.65): VD061970.D (-1266) (-)

13.93

600

500

400

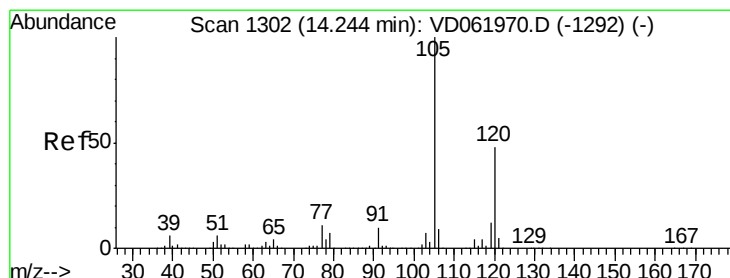
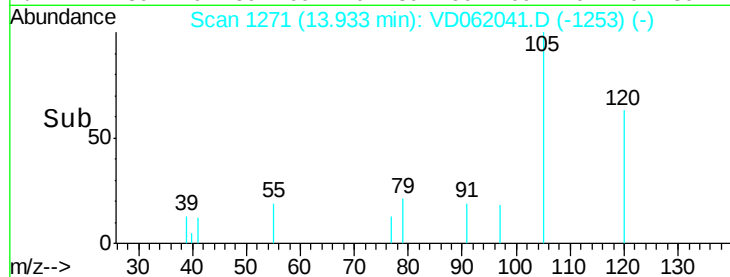
300

200

100

0

Time--> 13.90 13.92 13.94 13.96



#84

1,2,4-Trimethylbenzene

Concen: 11.990 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VD062041.D

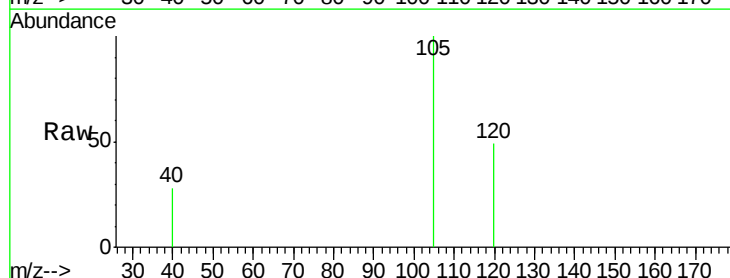
Acq: 25 Apr 2019 16:21

Tgt Ion: 105 Resp: 2018

Ion Ratio Lower Upper

105 100

120 48.8 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): VD061970.D (-1292) (-)

Ion 120.05 (119.75 to 120.75): VD061970.D (-1292) (-)

14.24

2000

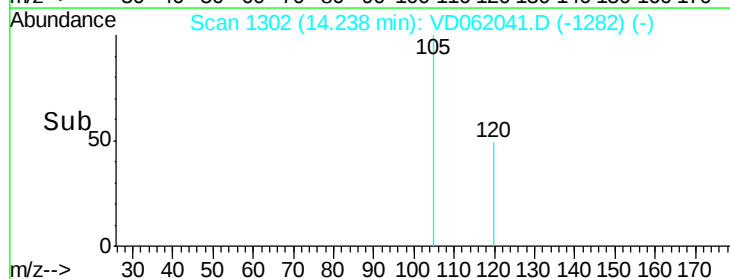
1500

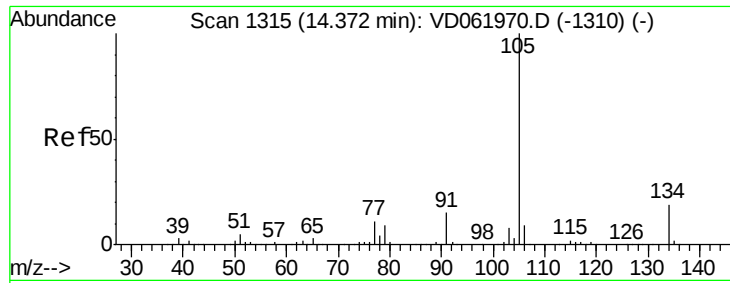
1000

500

0

Time--> 14.20 14.25

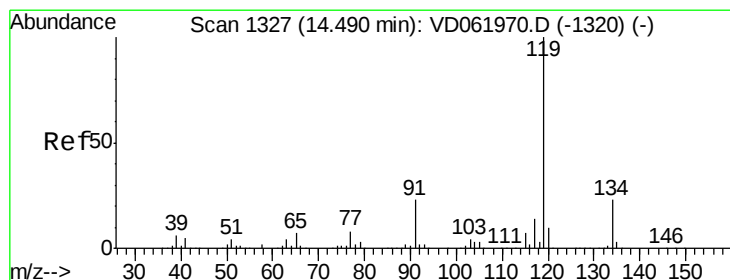
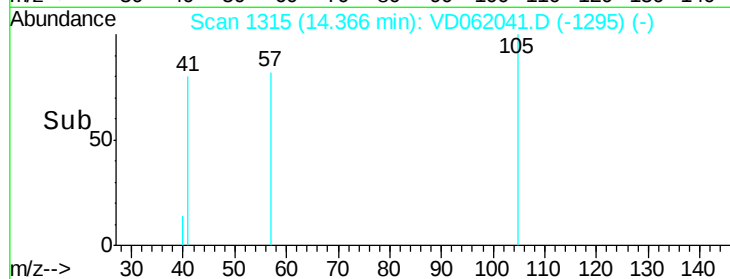
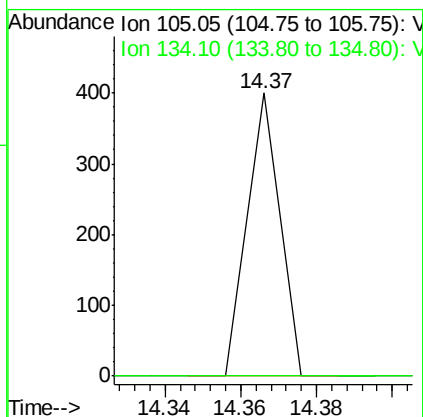
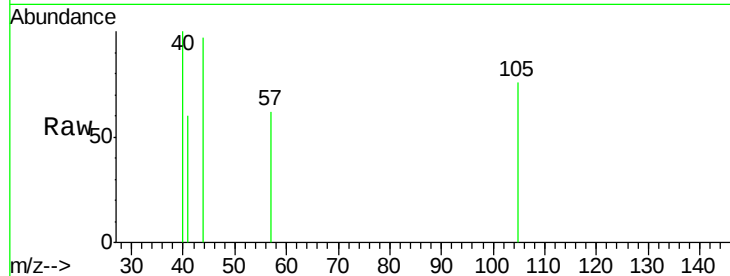




#85
 sec-Butylbenzene
 Concen: 1.070 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VD062041.D
 Acq: 25 Apr 2019 16:21

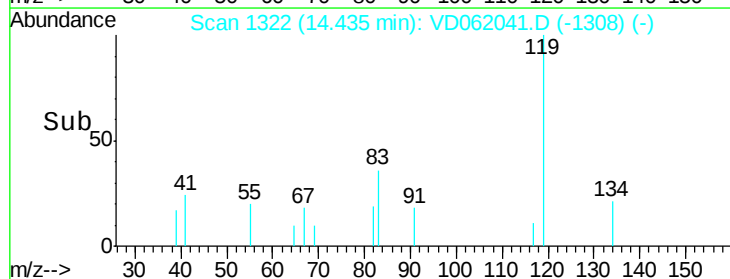
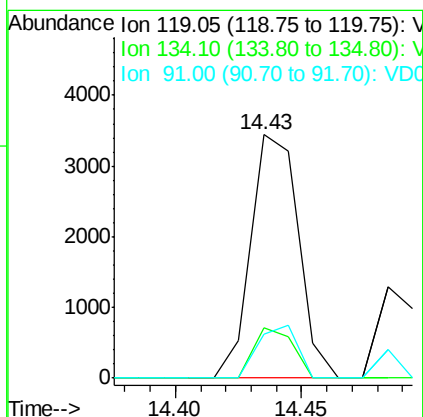
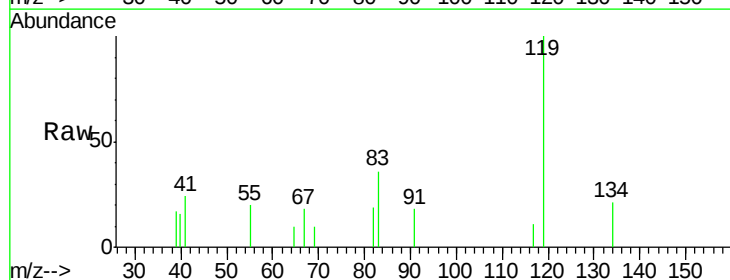
Instrument :
 MSVOA_D
 ClientSampleID :

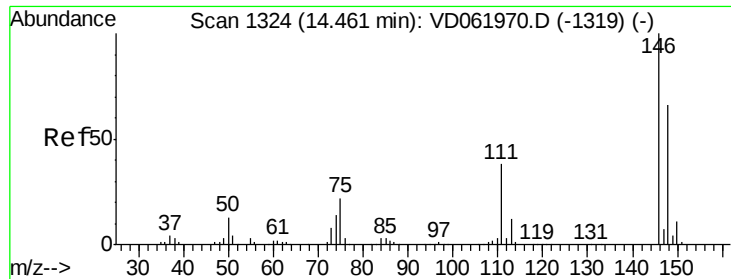
Tot Ion:105 Resp: 236
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.9 26.7#



#86
 p-Isopropyltoluene
 Concen: 22.956 ug/l
 RT: 14.43 min Scan# 1322
 Delta R.T. -0.06 min
 Lab File: VD062041.D
 Acq: 25 Apr 2019 16:21

Tgt Ion:119 Resp: 4533
 Ion Ratio Lower Upper
 119 100
 134 20.6 12.8 38.3
 91 18.1 10.7 32.1

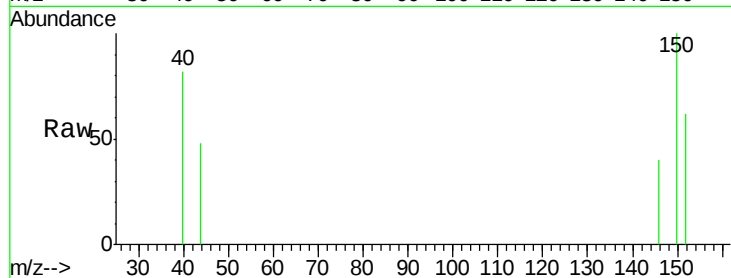




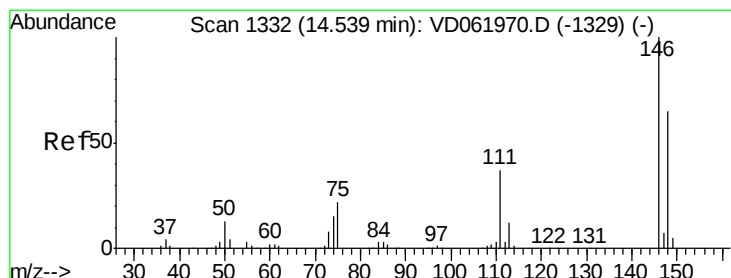
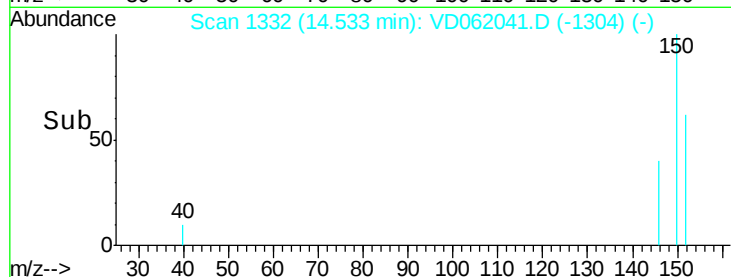
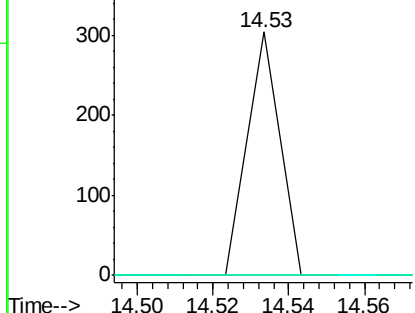
#87
 1,3-Dichlorobenzene
 Concen: 1.621 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. 0.08 min
 Lab File: VD062041.D
 Acq: 25 Apr 2019 16:21

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.0	60.0#
148	0.0	31.8	95.4#

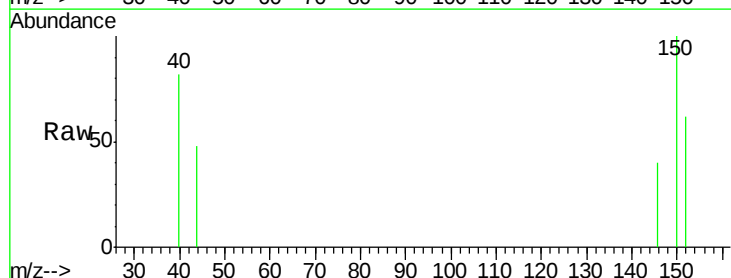


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

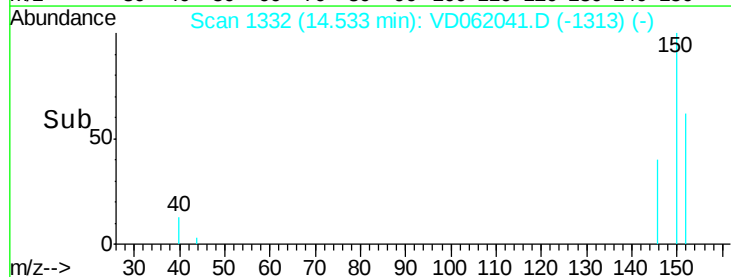
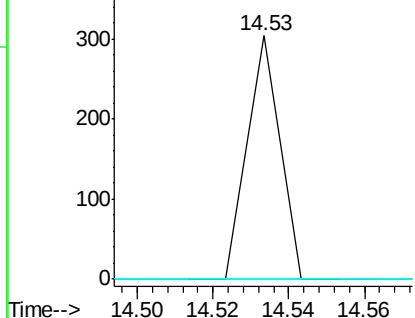


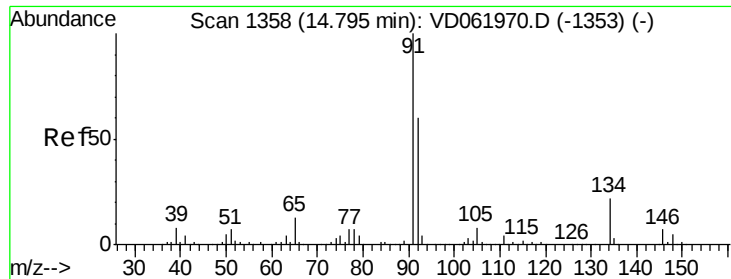
#88
 1,4-Dichlorobenzene
 Concen: 1.733 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: VD062041.D
 Acq: 25 Apr 2019 16:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.2	60.5#
148	0.0	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





#89

n-Butylbenzene

Concen: 20.109 ug/l

RT: 14.78 min Scan# 1357

Delta R.T. -0.02 min

Lab File: VD062041.D

Acq: 25 Apr 2019 16:21

Instrument :

MSVOA_D

ClientSampled :

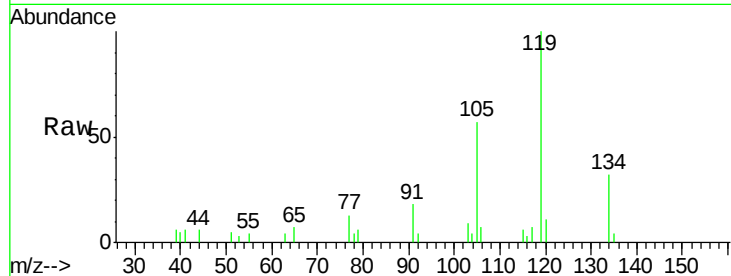
Tot Ion: 91 Resp: 3565

Ion Ratio Lower Upper

91 100

92 21.6 30.3 91.0#

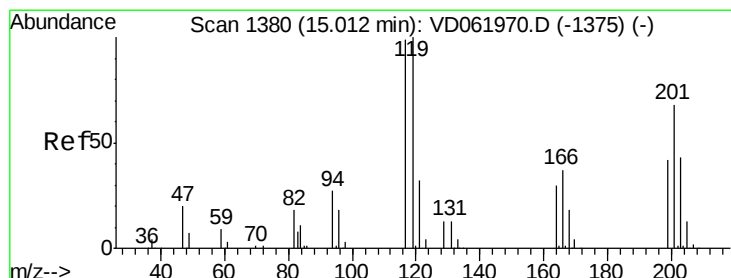
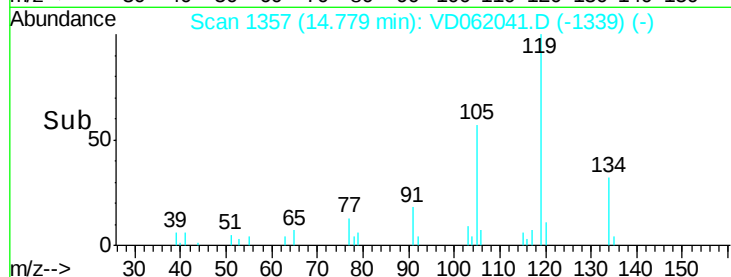
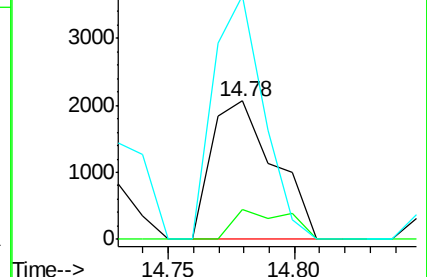
134 176.2 14.5 43.6#



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): VDC



#90

Hexachloroethane

Concen: 17.117 ug/l

RT: 15.06 min Scan# 1385

Delta R.T. 0.05 min

Lab File: VD062041.D

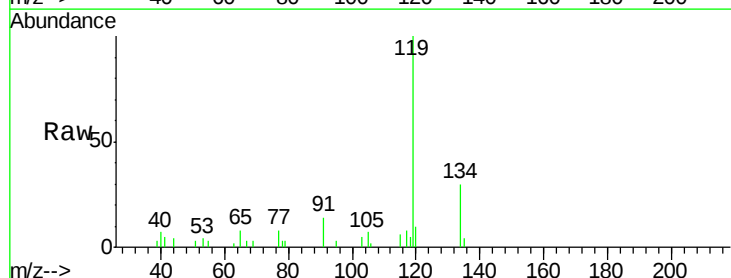
Acq: 25 Apr 2019 16:21

Tgt Ion: 117 Resp: 914

Ion Ratio Lower Upper

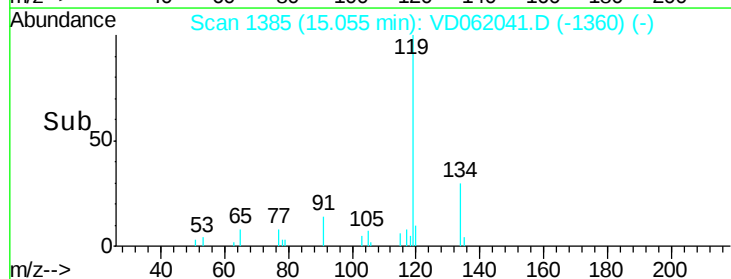
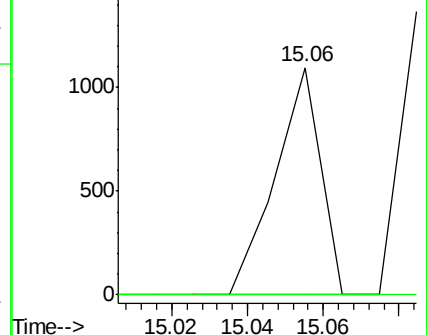
117 100

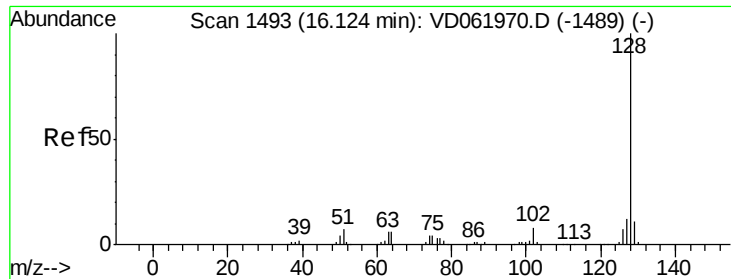
201 0.0 30.2 90.6#



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

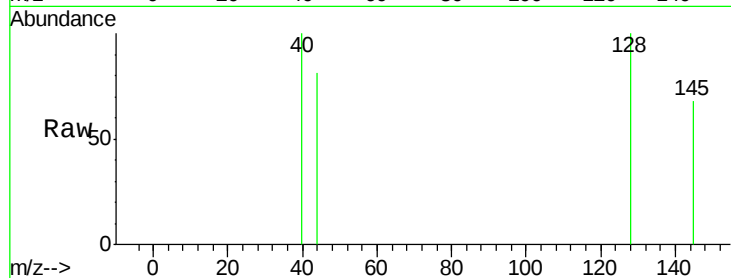




#95
Naphthalene
Concen: 3.559 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VD062041.D
Acq: 25 Apr 2019 16:21

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 284
Ion Ratio Lower Upper
128 100
127 0.0 9.8 14.8#
129 0.0 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

