

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 :
 135-20RE

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			Recovery	=	200.96%	
35) Dibromofluoromethane	6.91	113	3951	49.82	ug/l	-0.02
Spiked Amount			Recovery	=	99.64%	
50) Toluene-d8	10.41	98	9251	49.02	ug/l	-0.01
Spiked Amount			Recovery	=	98.04%	
62) 4-Bromofluorobenzene	13.55	95	3850	50.86	ug/l	-0.01
Spiked Amount			Recovery	=	101.72%	

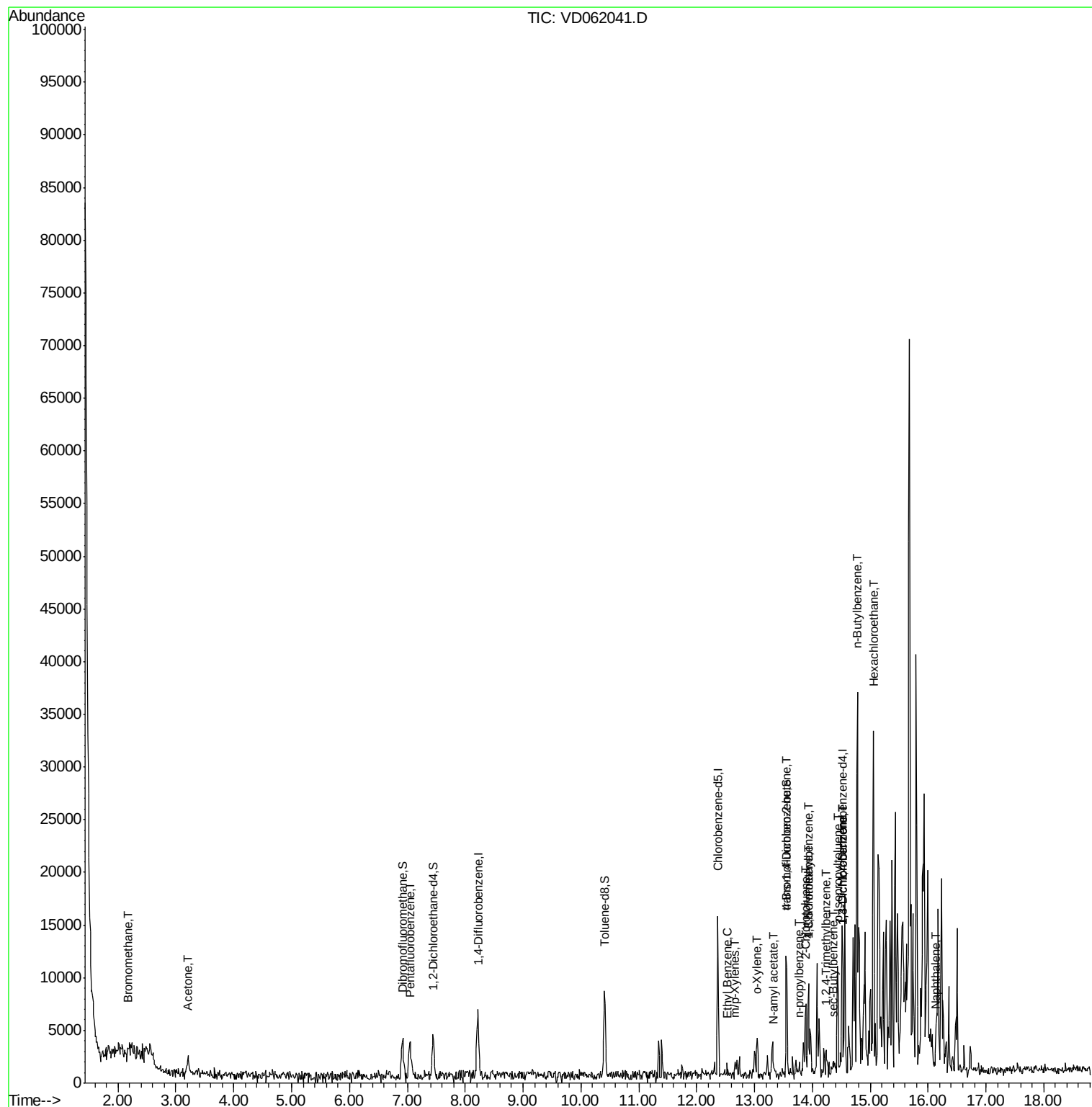
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	267	20.715	ug/l #	12
16) Acetone	3.21	43	3563	303.168	ug/l #	50
67) Ethyl Benzene	12.53	91	1004	3.263	ug/l #	44
68) m/p-Xylenes	12.66	106	235	2.113	ug/l #	60
69) o-Xylene	13.05	106	1578	15.507	ug/l	41
74) N-amyl acetate	13.34	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

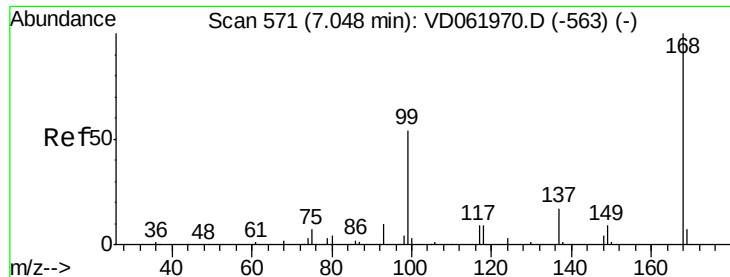
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#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 :

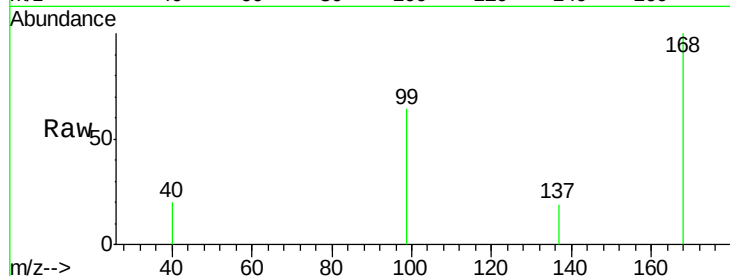
135-20RE

Tot Ion:168 Resp: 6289

Ion Ratio Lower Upper

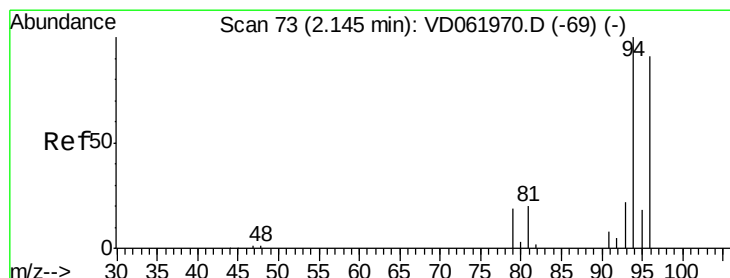
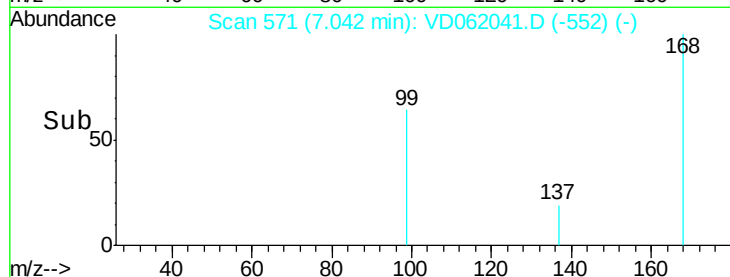
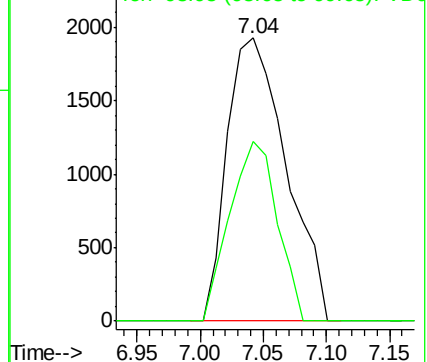
168 100

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

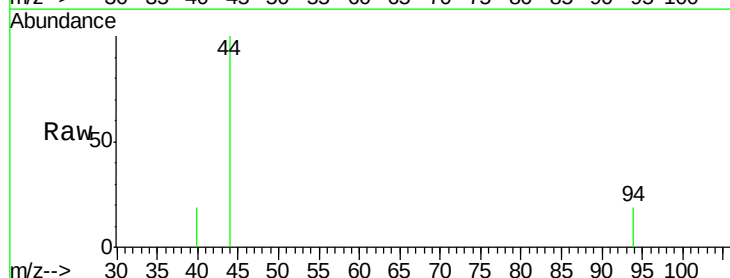
Tgt Ion: 94 Resp: 267

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

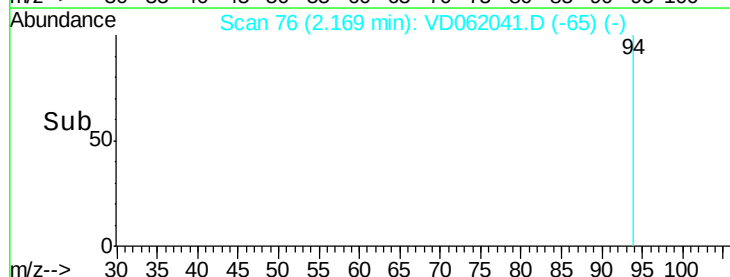
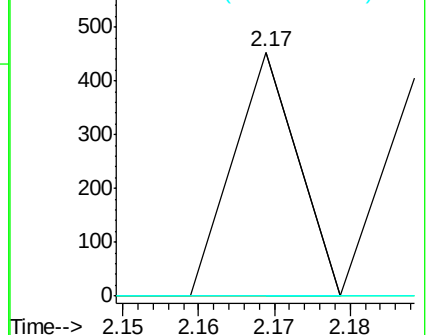
93 0.0 18.5 27.7#

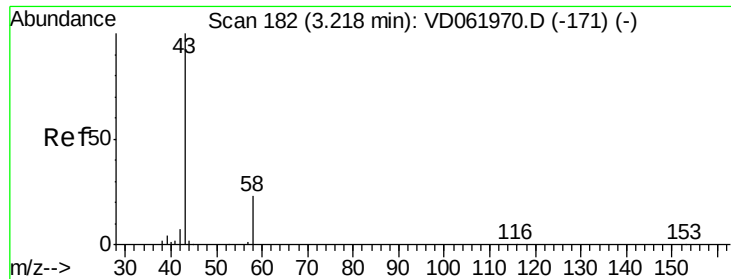


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

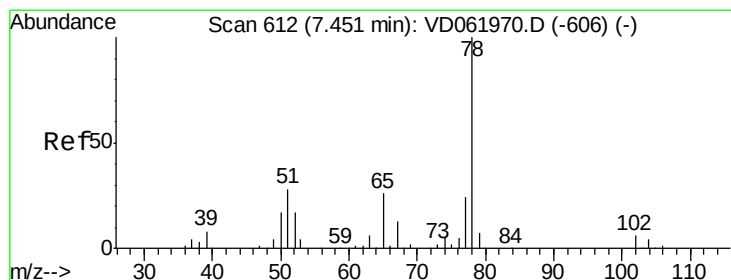
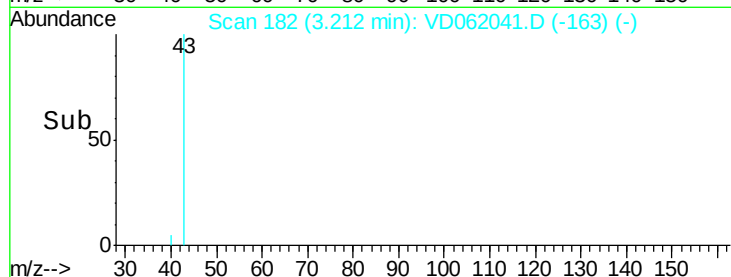
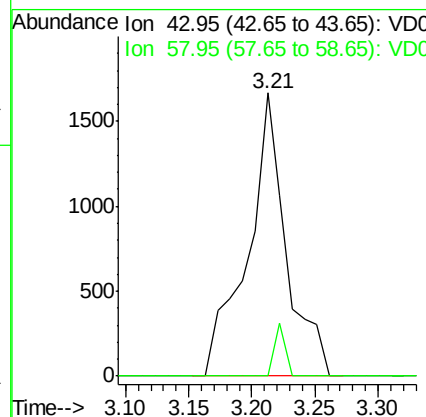
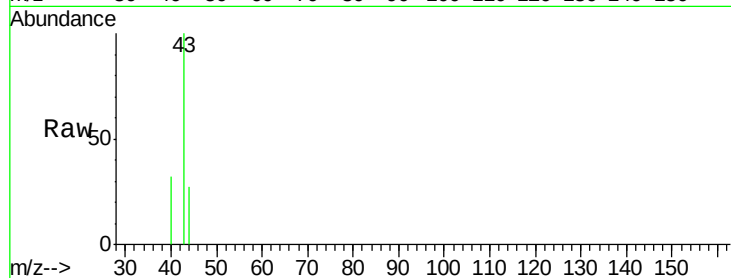




#16
Acetone
Concen: 303.168 ug/l
RT: 3.21 min Scan# 182
Delta R.T. -0.01 min
Lab File: VD062041.D
Acq: 25 Apr 2019 16:21

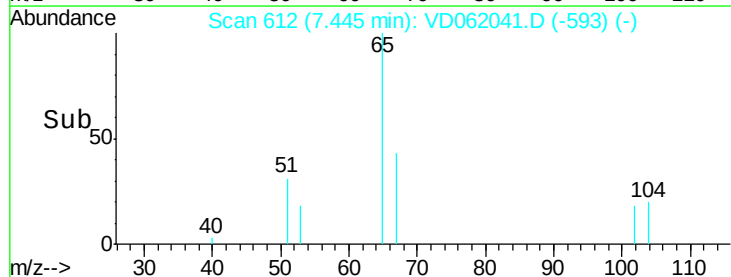
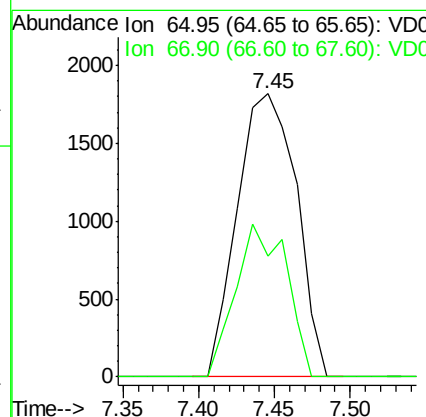
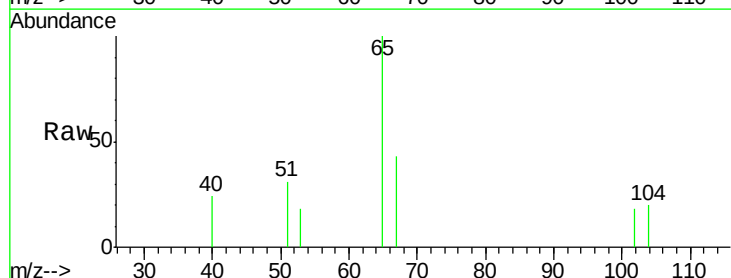
Instrument :
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135-20RE

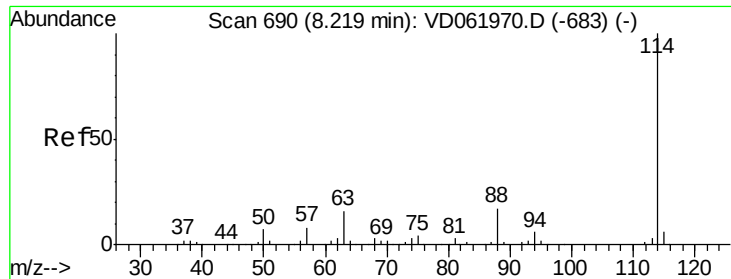
Tot Ion: 43 Resp: 3563
Ion Ratio Lower Upper
43 100
58 0.0 19.9 29.9#



#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

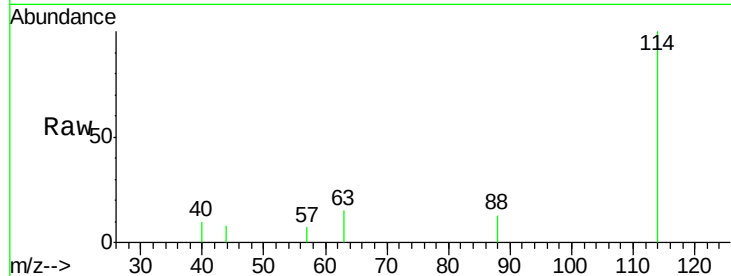




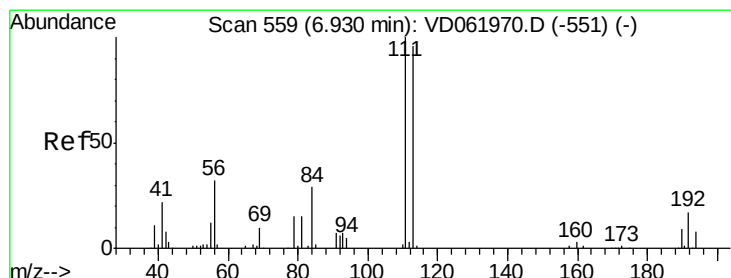
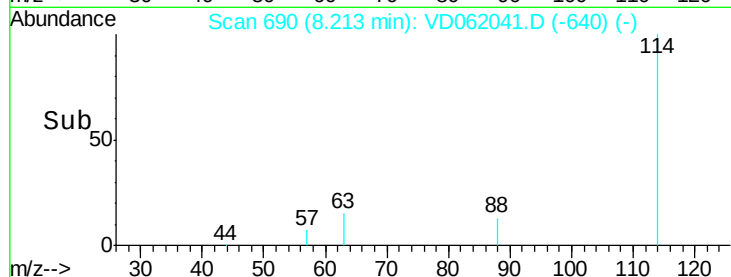
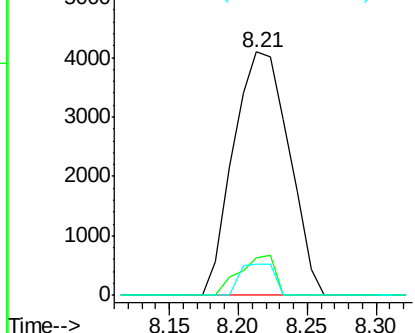
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VD062041.D
 Acq: 25 Apr 2019 16:21

Instrument :
 MSVOA_D
 ClientSampleId :
 135-20RE

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

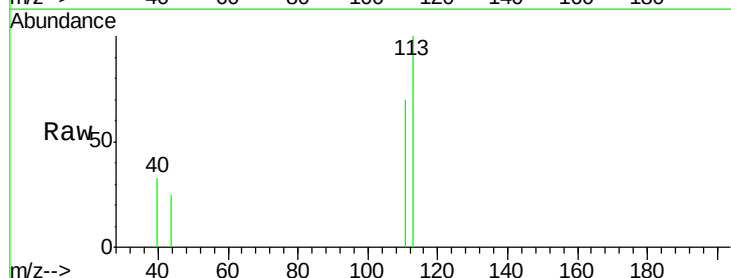


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

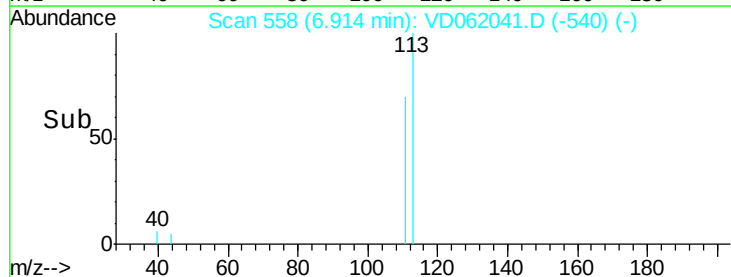
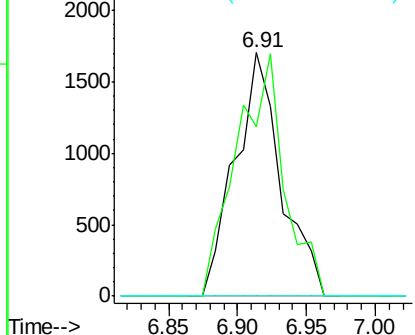


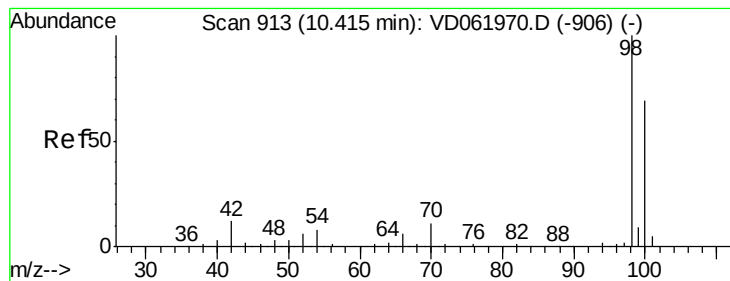
#35
 Dibromofluoromethane
 Concen: 49.816 ug/l
 RT: 6.91 min Scan# 558
 Delta R.T. -0.02 min
 Lab File: VD062041.D
 Acq: 25 Apr 2019 16:21

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 :

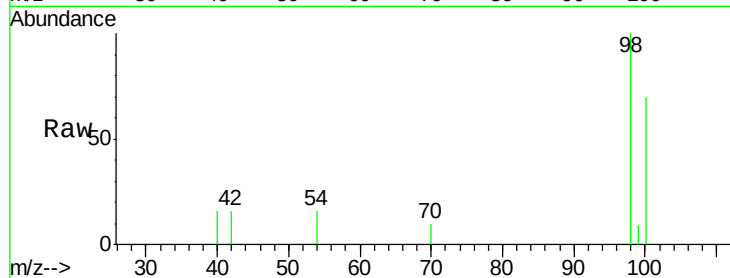
135-20RE

Tot Ion: 98 Resp: 9251

Ion Ratio Lower Upper

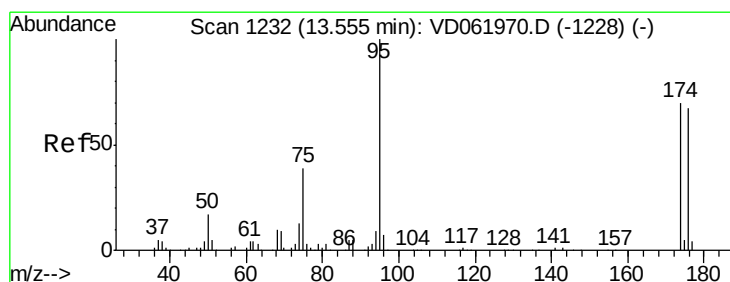
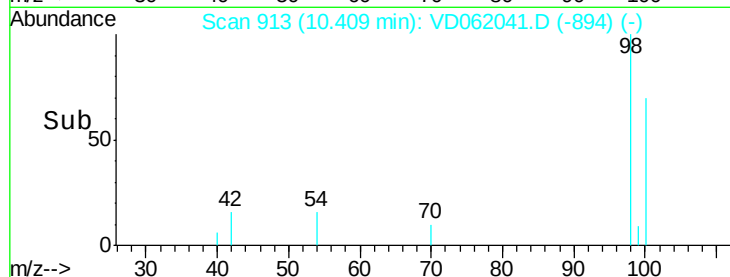
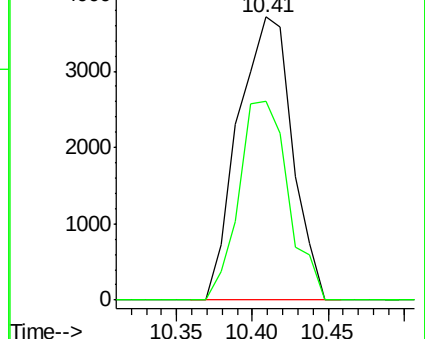
98 100

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

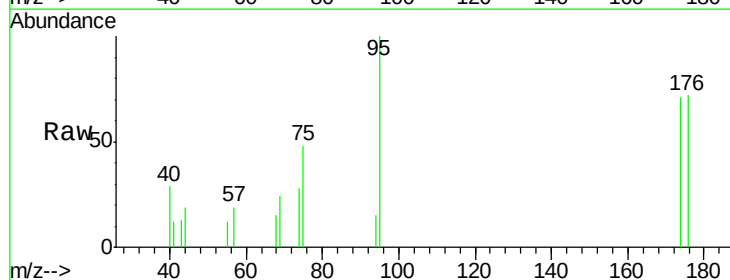
Tgt Ion: 95 Resp: 3850

Ion Ratio Lower Upper

95 100

174 71.3 0.0 181.8

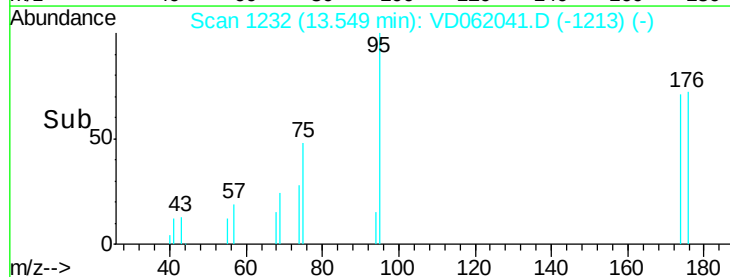
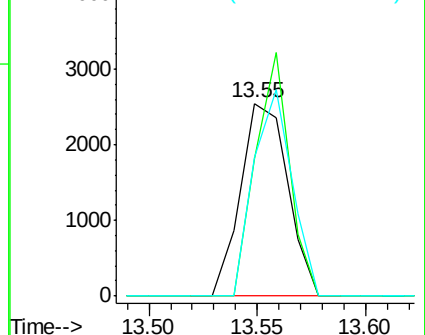
176 71.9 0.0 174.4

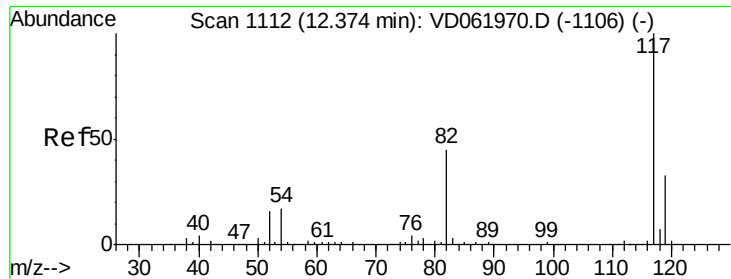


Abundance Ion 95.00 (94.70 to 95.70): VD061970.D (-1228) (-)

Ion 173.90 (173.60 to 174.60): VD061970.D (-1228) (-)

Ion 175.90 (175.60 to 176.60): VD061970.D (-1228) (-)

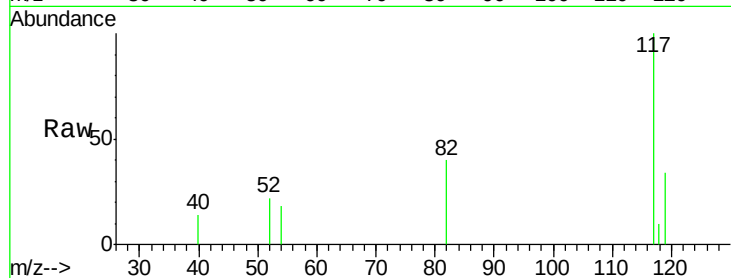




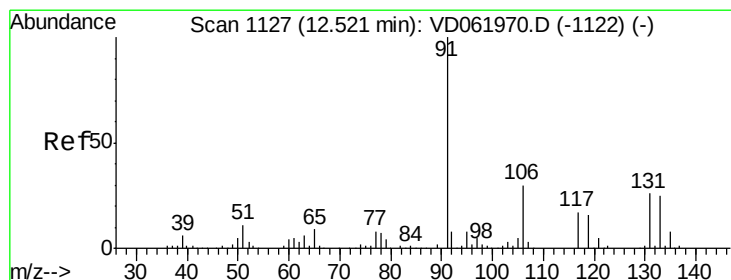
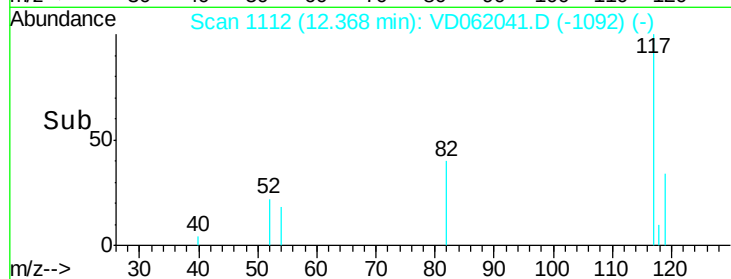
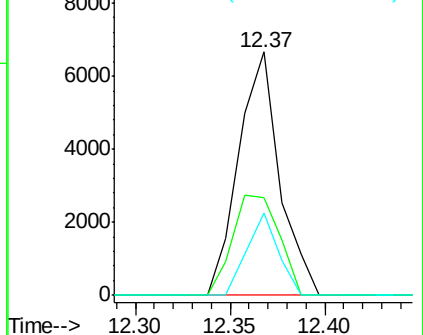
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD062041.D
Acq: 25 Apr 2019 16:21

Instrument :
MSVOA_D
ClientSampleId :
135-20RE

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

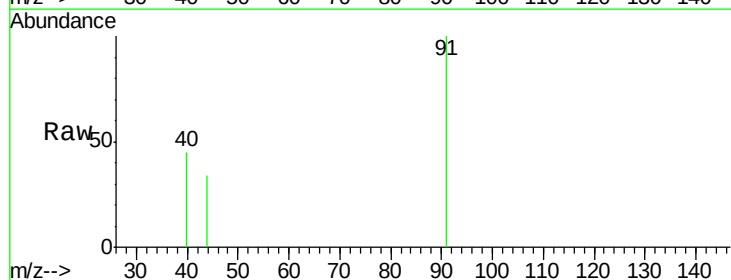


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

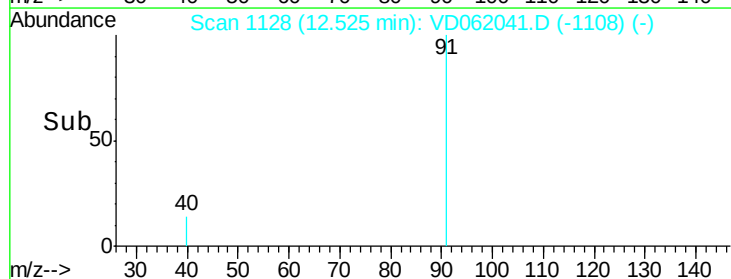
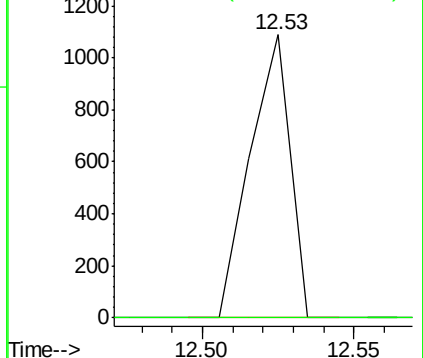


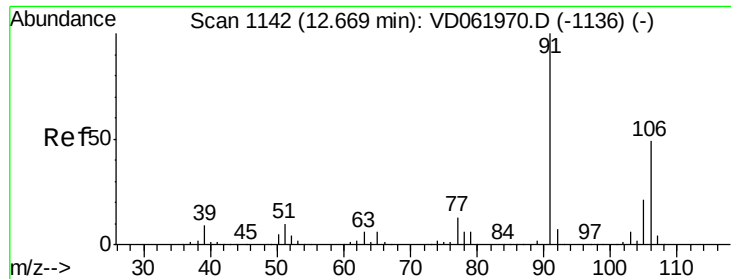
#67
Ethyl Benzene
Concen: 3.263 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VD062041.D
Acq: 25 Apr 2019 16:21

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

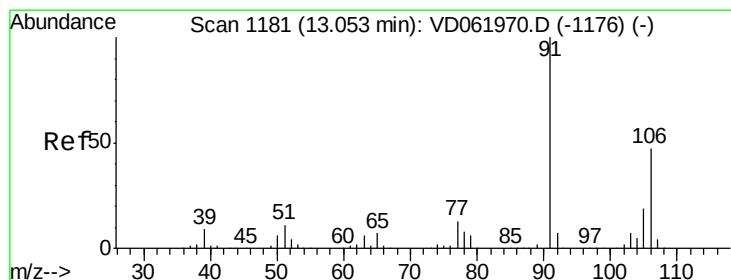
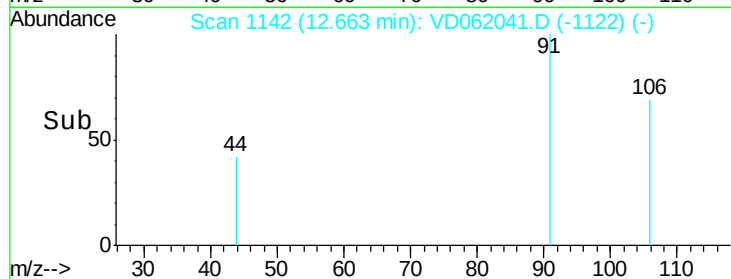
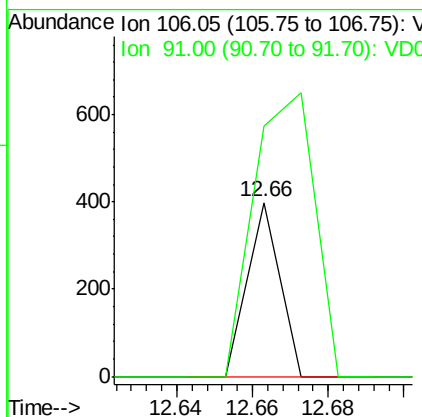
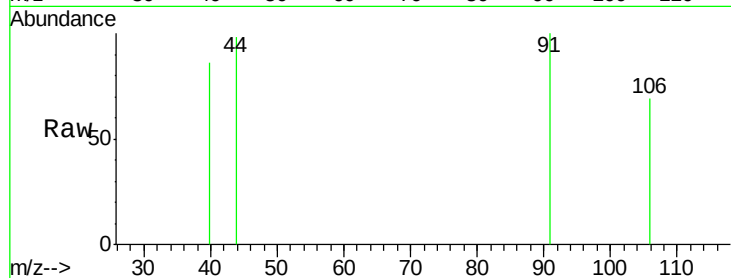




#68
m/p-Xylenes
Concen: 2.113 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD062041.D
Acq: 25 Apr 2019 16:21

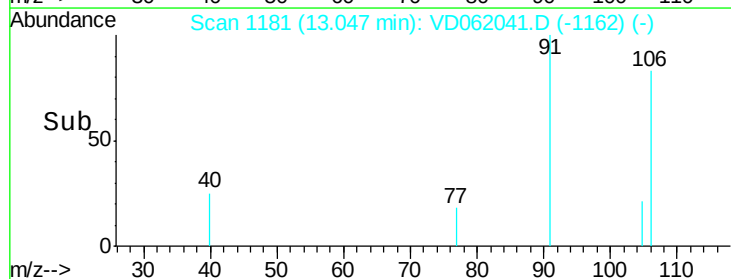
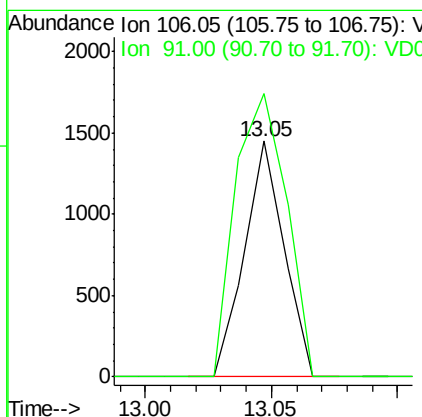
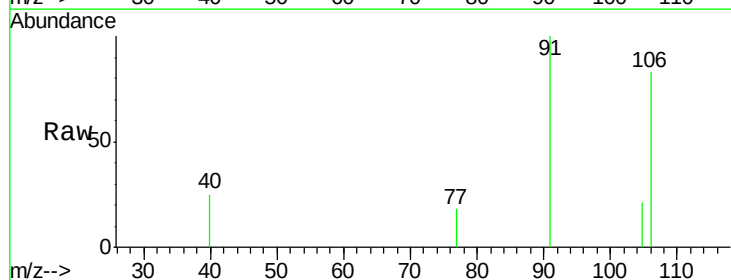
Instrument :
MSVOA_D
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135-20RE

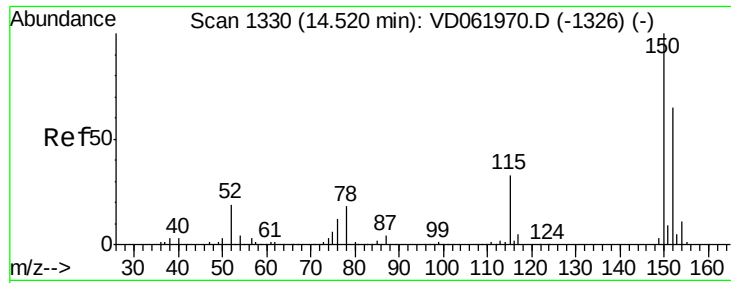
Tot Ion:106 Resp: 235
Ion Ratio Lower Upper
106 100
91 144.0 164.0 246.0#



#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

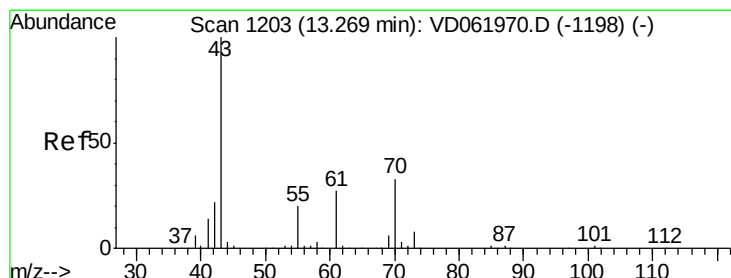
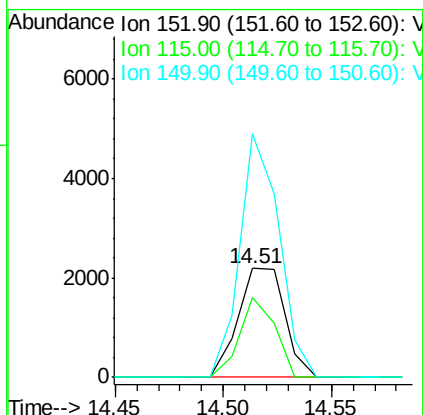
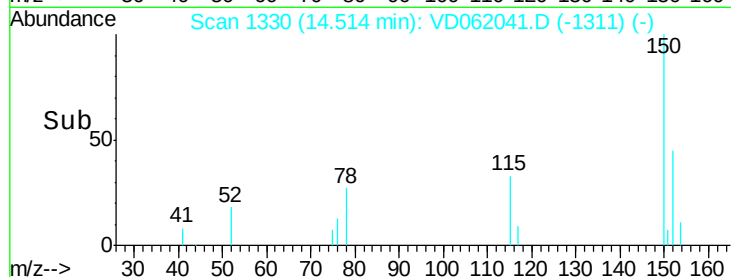
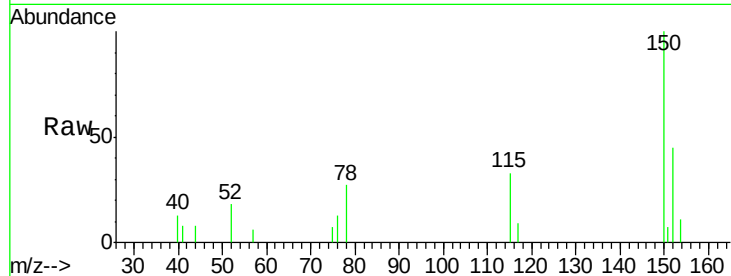




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.51 min Scan# 1330
 Delta R.T. -0.01 min
 Lab File: VD062041.D
 Acq: 25 Apr 2019 16:21

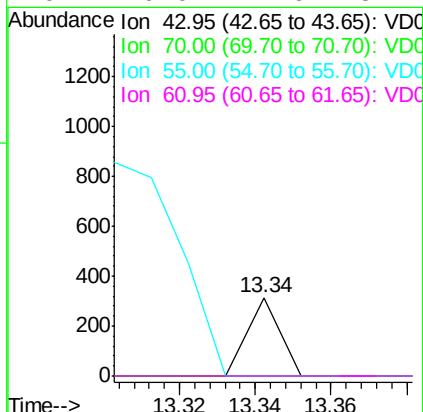
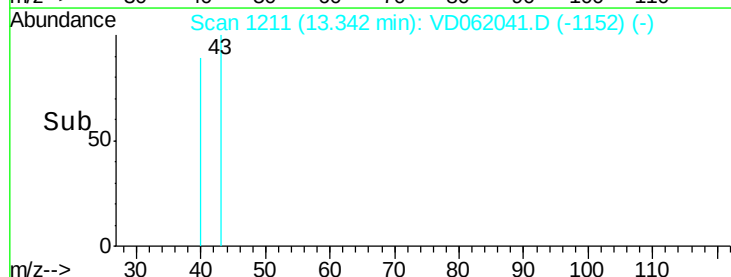
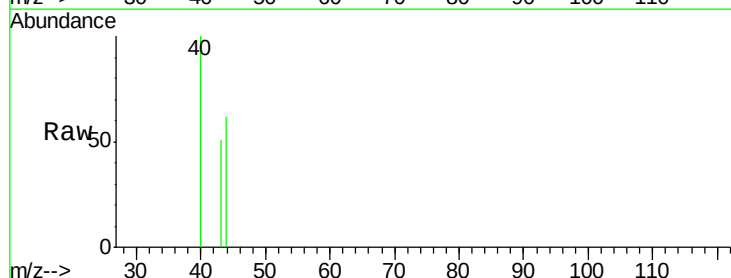
Instrument :
 MSVOA_D
 ClientSampleId :
 135-20RE

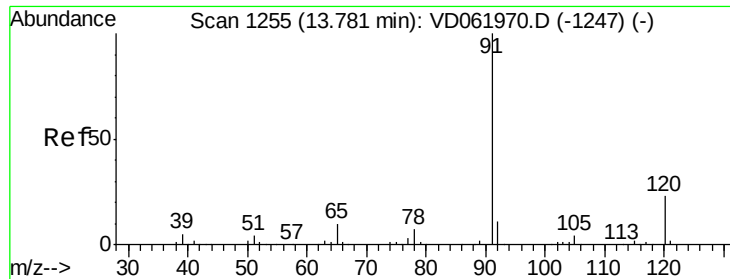
Tot Ion:152 Resp: 3314
 Ion Ratio Lower Upper
 152 100
 115 73.0 30.9 92.7
 150 223.3 0.0 314.8



#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#





#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

ClientSampleId :

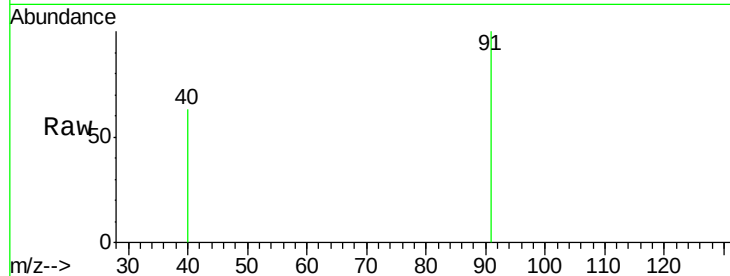
135-20RE

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

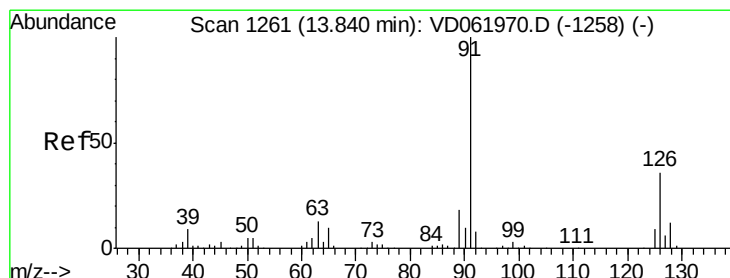
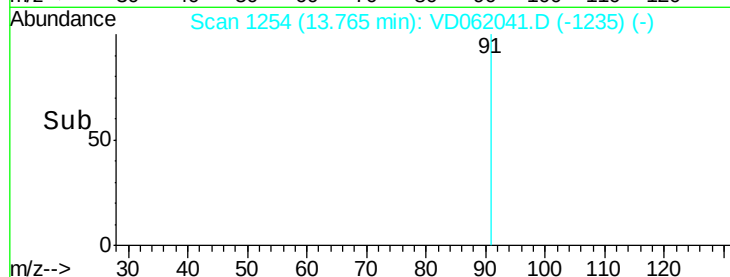
600

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

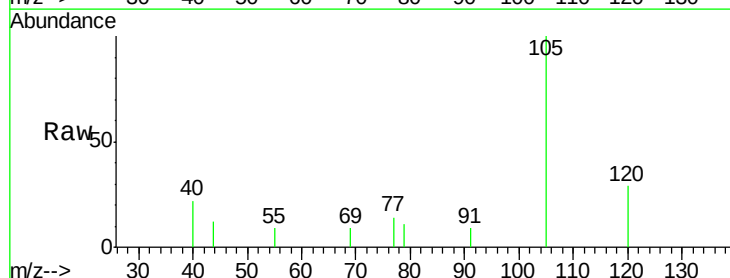
Acq: 25 Apr 2019 16:21

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

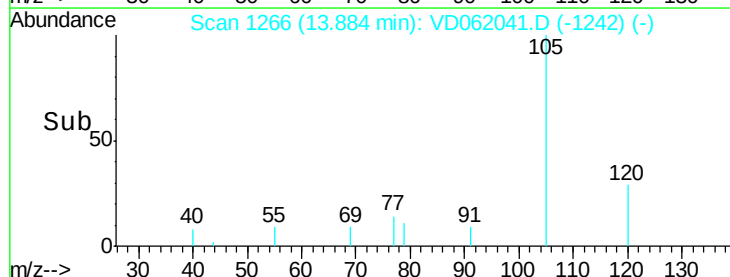
300

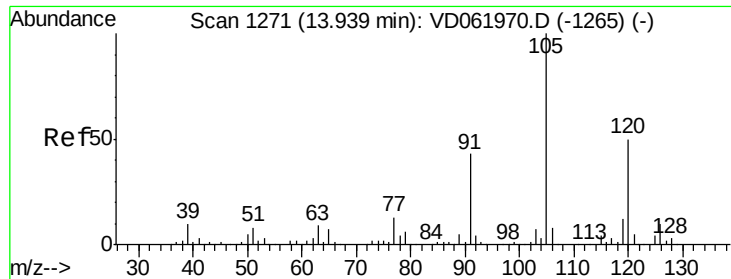
200

100

0

Time-->

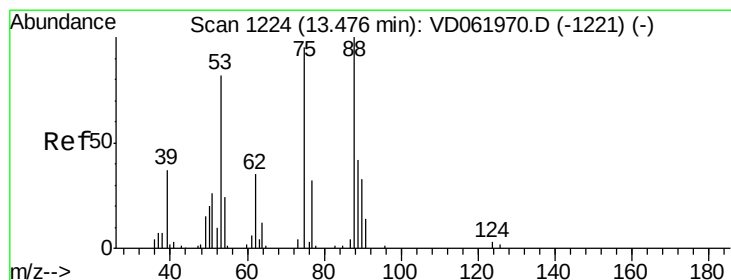
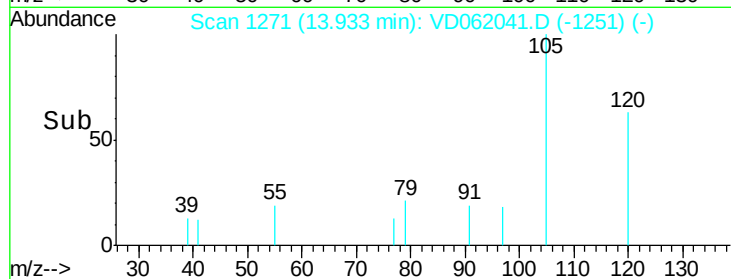
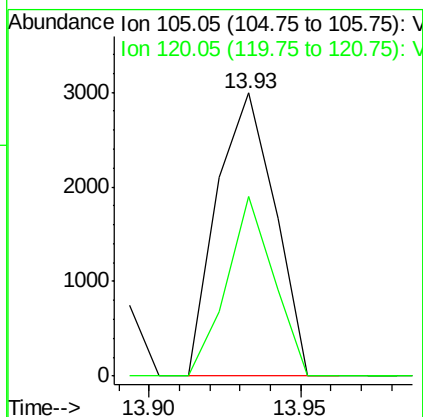
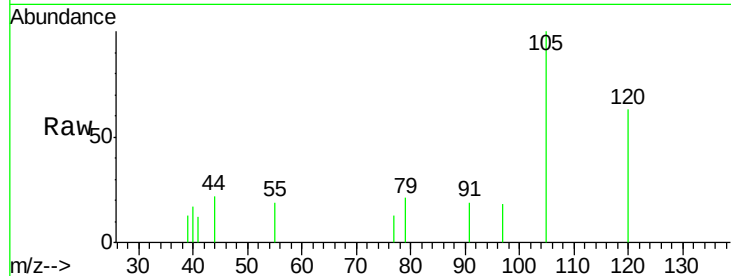




#80
 1,3,5-Trimethylbenzene
 Concen: 22.664 ug/l
 RT: 13.93 min Scan# 1271
 Delta R.T. -0.00 min
 Lab File: VD062041.D
 Acq: 25 Apr 2019 16:21

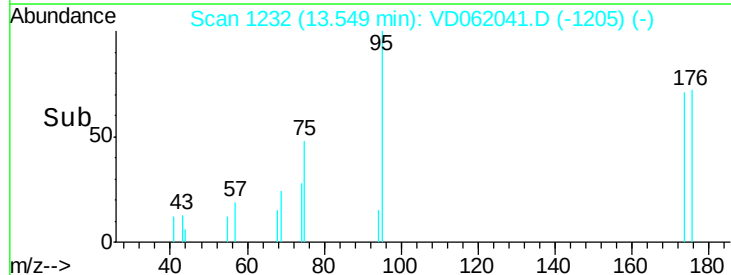
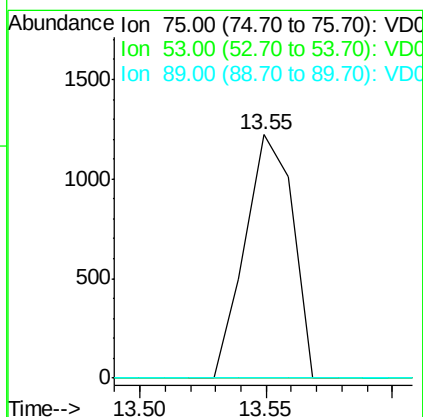
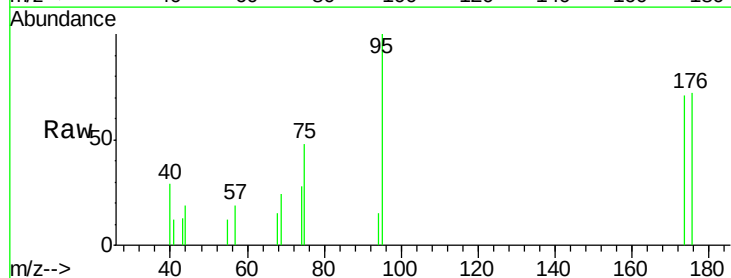
Instrument :
 MSVOA_D
 ClientSampleId :
 135-20RE

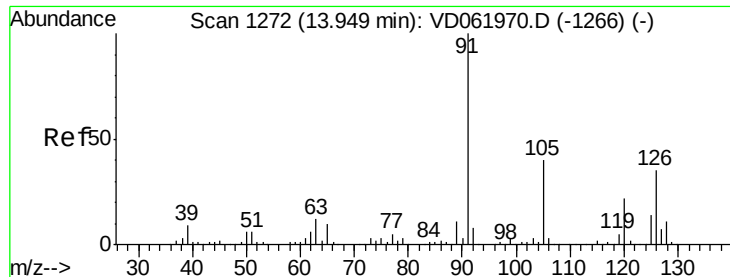
Tot Ion: 105 Resp: 3995
 Ion Ratio Lower Upper
 105 100
 120 63.4 24.0 72.0



#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#

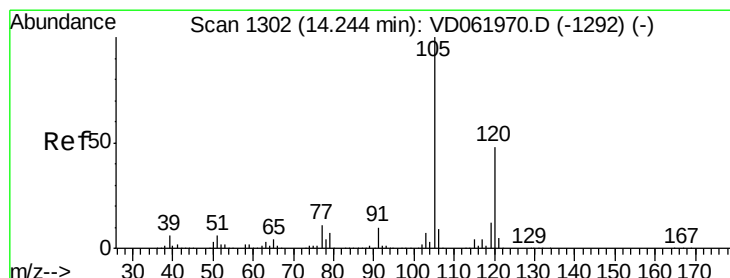
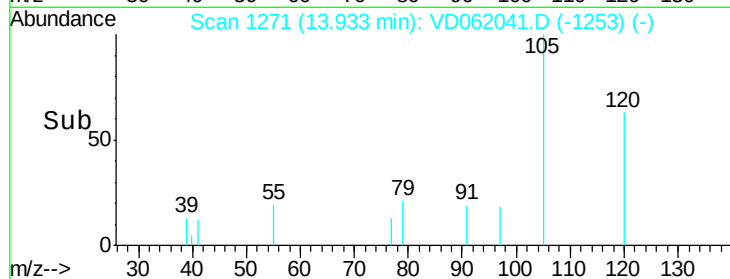
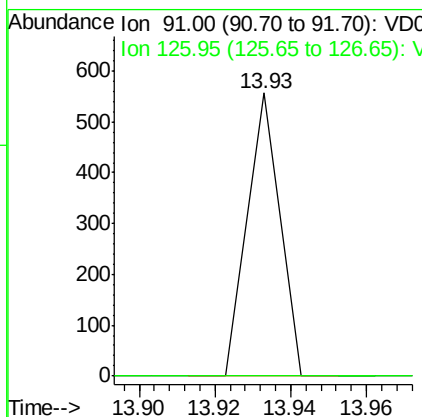
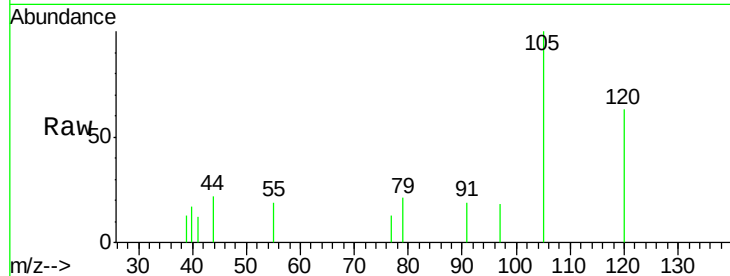




#82
 4-Chlorotoluene
 Concen: 1.949 ug/l
 RT: 13.93 min Scan# 1271
 Delta R.T. -0.02 min
 Lab File: VD062041.D
 Acq: 25 Apr 2019 16:21

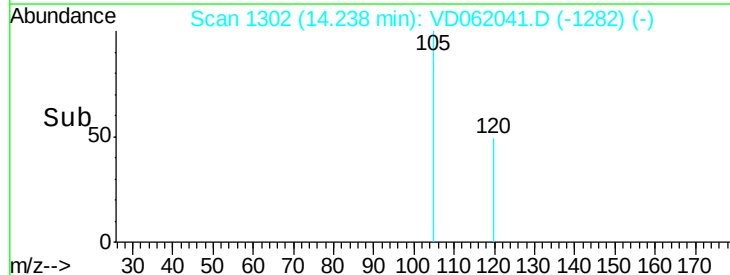
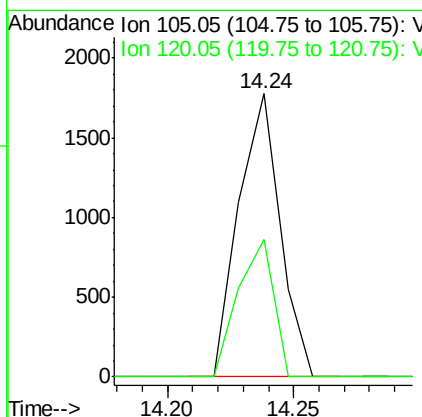
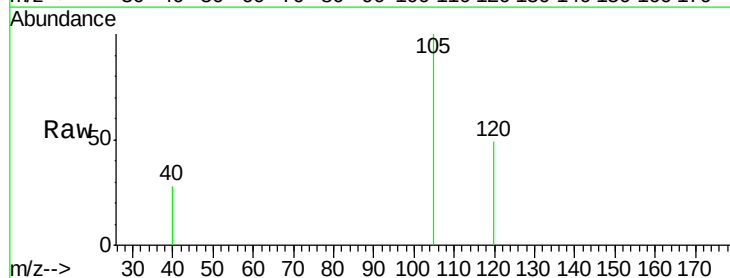
Instrument :
 MSVOA_D
 ClientSampleId :
 135-20RE

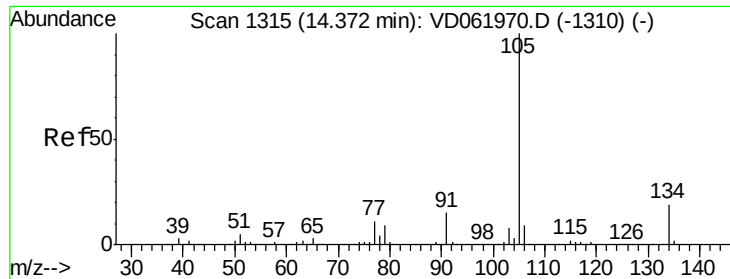
Tot Ion: 91 Resp: 329
 Ion Ratio Lower Upper
 91 100
 126 0.0 19.1 57.5#



#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

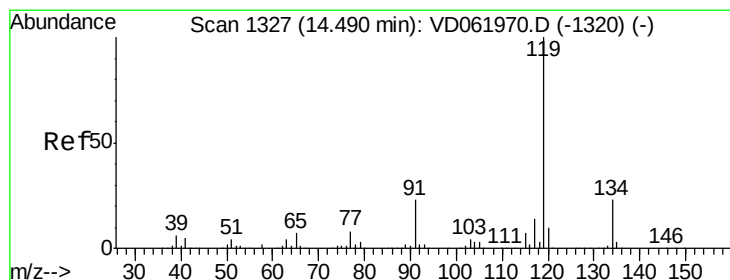
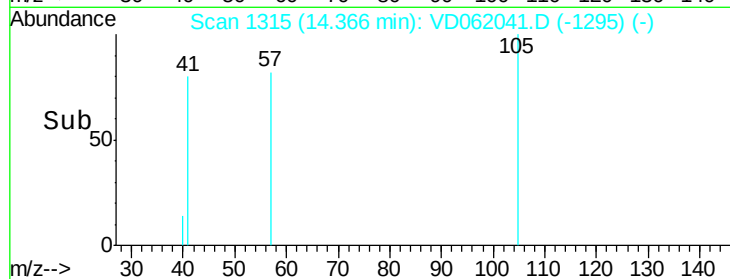
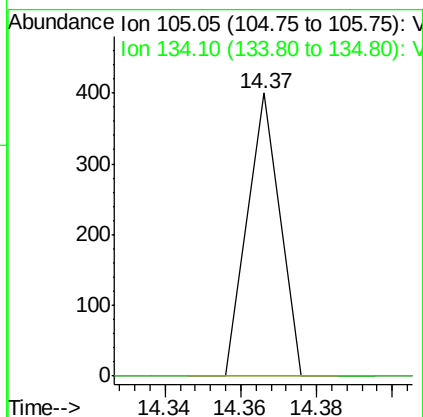
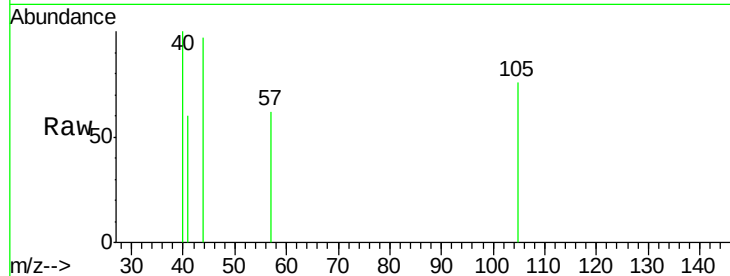




#85
 sec-Butylbenzene
 Concen: 1.070 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VD062041.D
 Acq: 25 Apr 2019 16:21

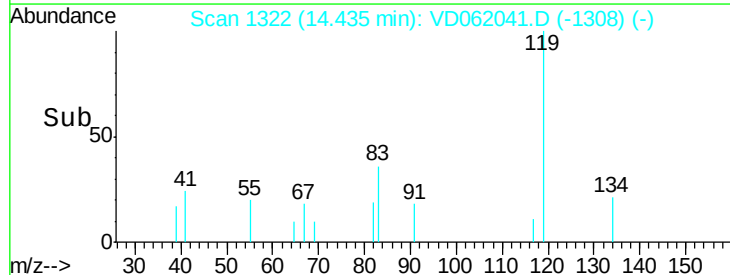
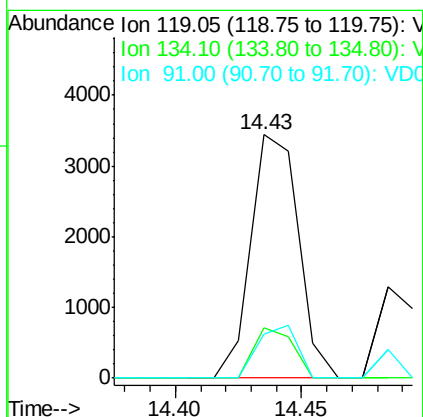
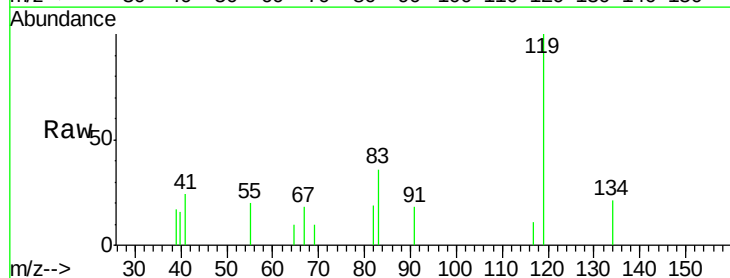
Instrument :
 MSVOA_D
 ClientSampleId :
 135-20RE

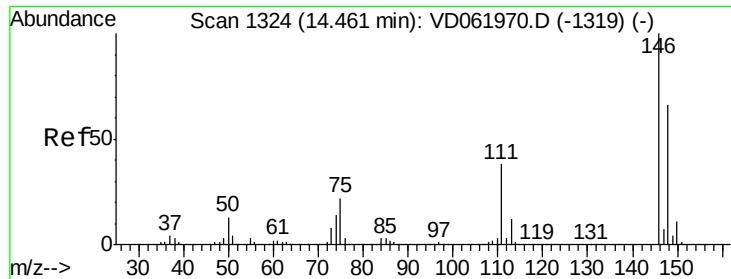
Tot Ion:105 Resp: 236
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.9 26.7#



#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

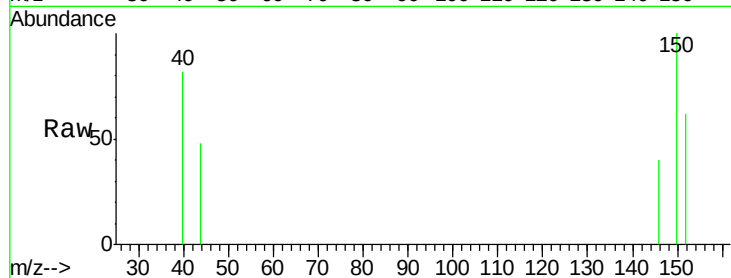




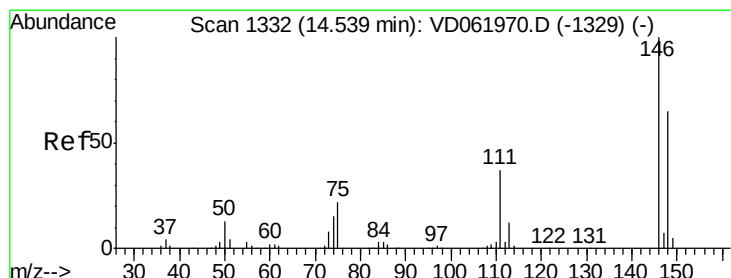
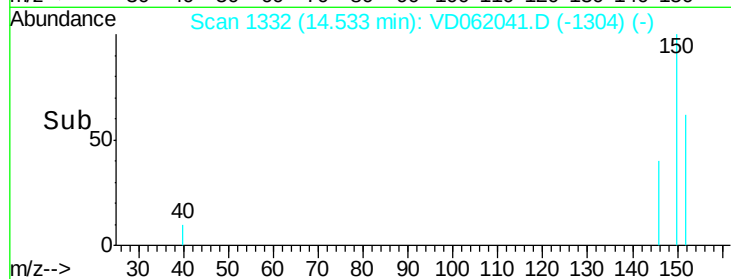
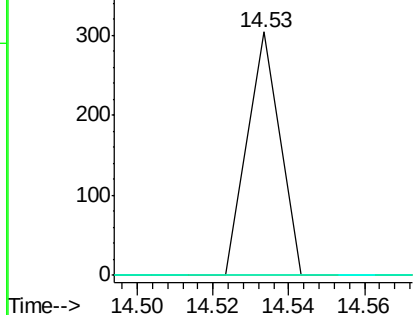
#87
 1,3-Dichlorobenzene
 Concen: 1.621 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. 0.08 min
 Lab File: VD062041.D
 Acq: 25 Apr 2019 16:21

Instrument :
 MSVOA_D
 ClientSampleId :
 135-20RE

Tot Ion:146 Resp: 180
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.0 60.0#
 148 0.0 31.8 95.4#

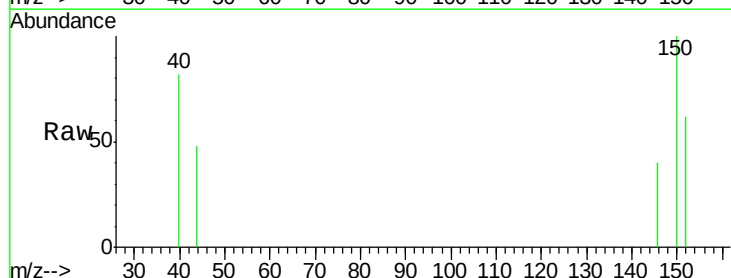


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

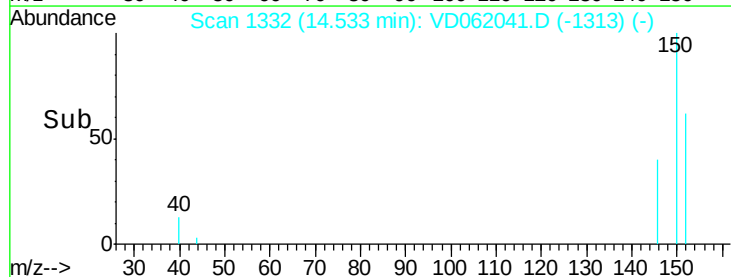
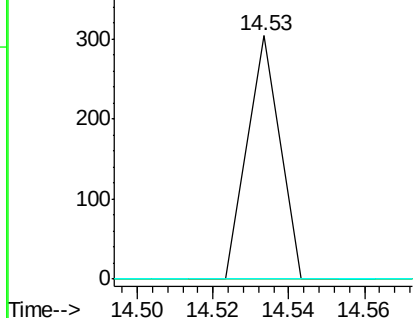


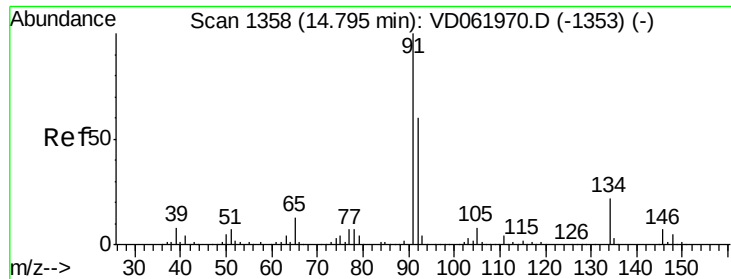
#88
 1,4-Dichlorobenzene
 Concen: 1.733 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: VD062041.D
 Acq: 25 Apr 2019 16:21

Tgt Ion:146 Resp: 180
 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

ClientSampleId :

135-20RE

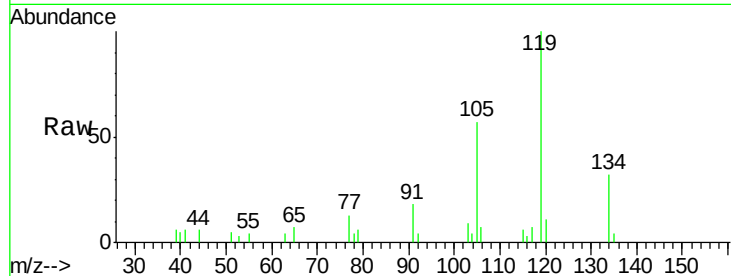
Tot Ion: 91 Resp: 3565

Ion Ratio Lower Upper

91 100

92 21.6 30.3 91.0#

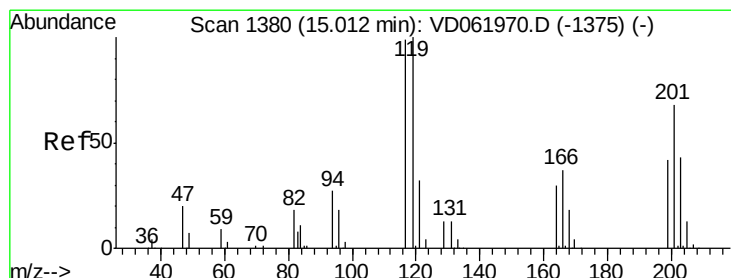
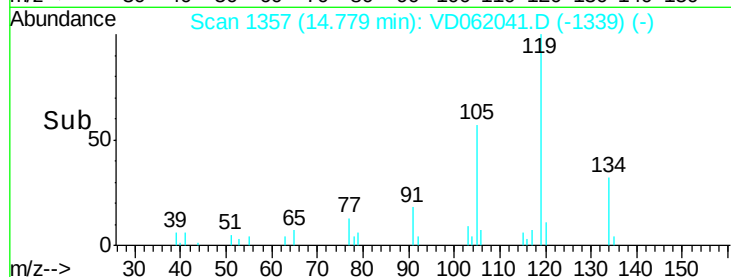
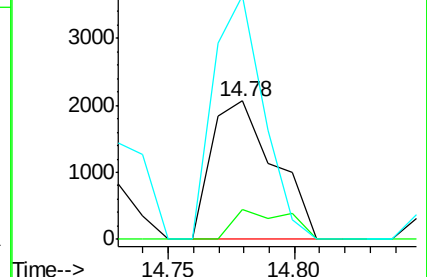
134 176.2 14.5 43.6#



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

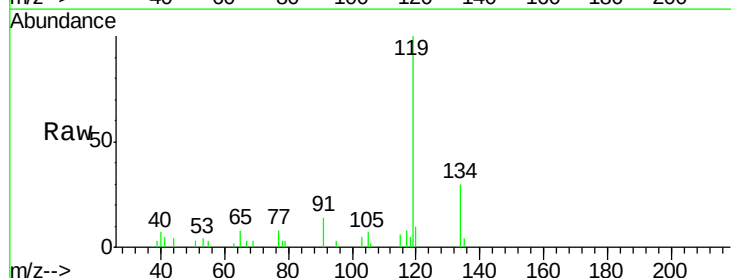
Acq: 25 Apr 2019 16:21

Tgt Ion: 117 Resp: 914

Ion Ratio Lower Upper

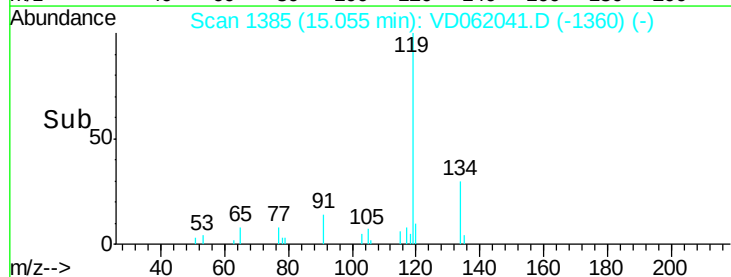
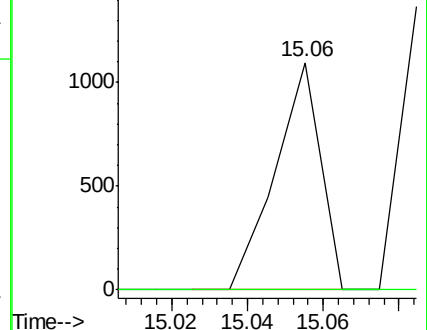
117 100

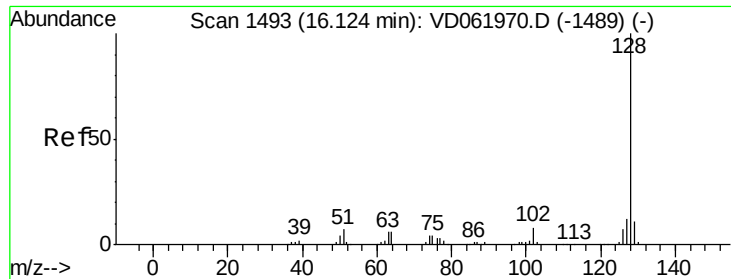
201 0.0 30.2 90.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V





#95

Naphthalene

Concen: 3.559 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VD062041.D

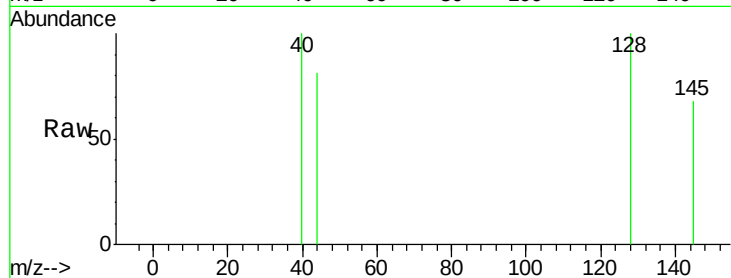
Acq: 25 Apr 2019 16:21

Instrument :

MSVOA_D

ClientSampleId :

135-20RE



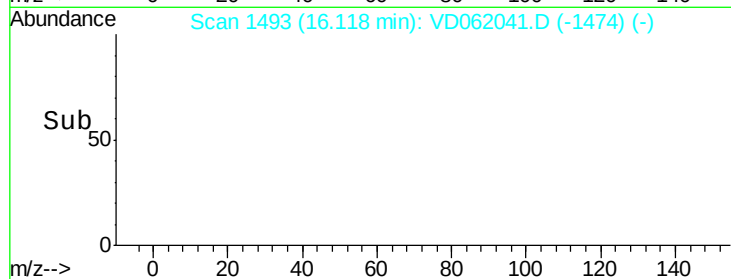
Tot Ion:128 Resp: 284

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

16.12

400

300

200

100

0

Time--> 16.08 16.10 16.12 16.14