

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031419\
 Data File : VD061069.D
 Acq On : 14 Mar 2019 17:18
 Operator : VA/AP
 Sample : K1901-05
 Misc : 3.60µl/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4(0.5-1.5)

Quant Time: Mar 15 02:13:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

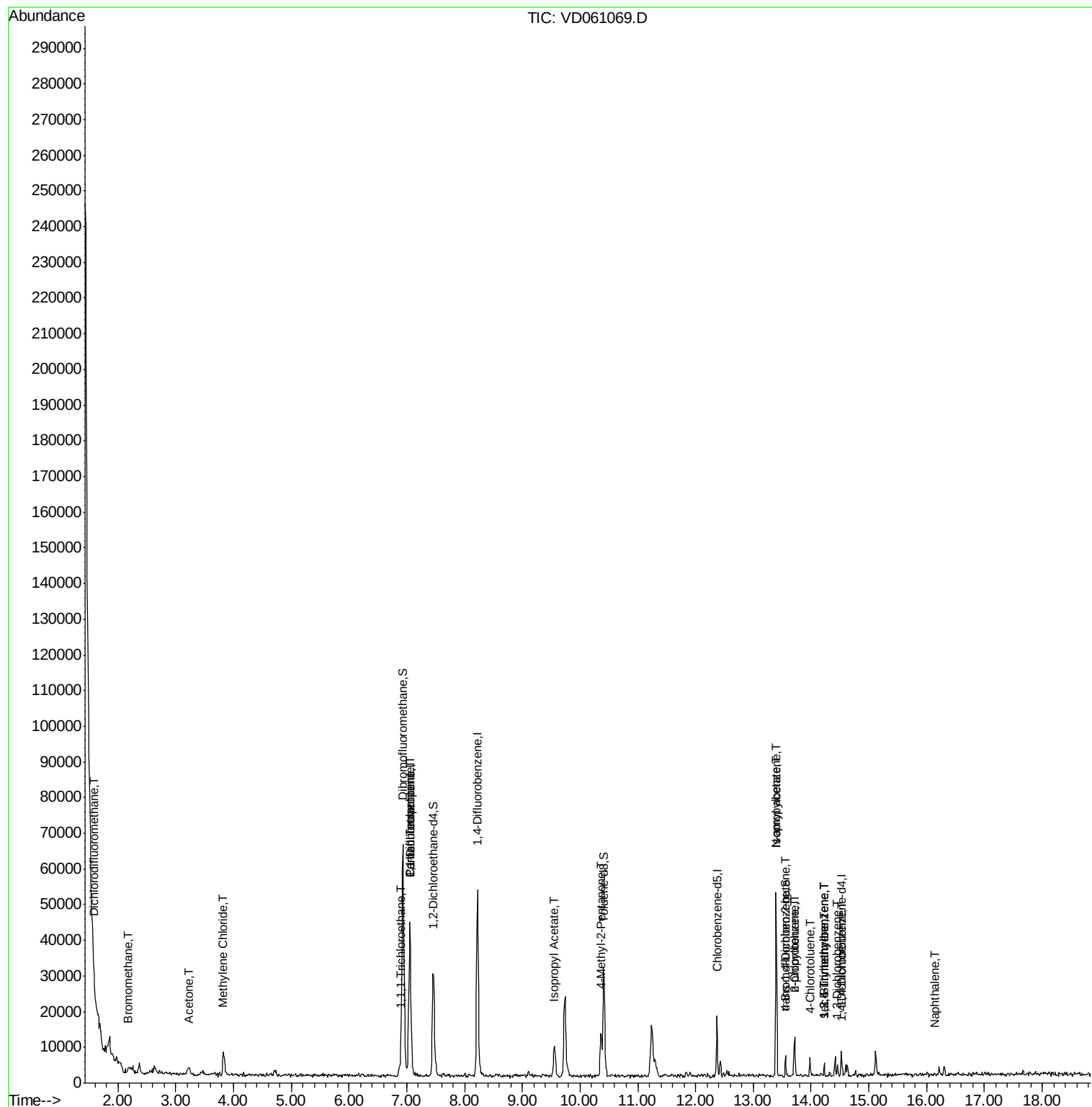
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	47518	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	67253	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	11567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	2037	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.46	65	29676	75.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	150.06%	
35) Dibromofluoromethane	6.93	113	62358	124.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	249.88%	
50) Toluene-d8	10.41	98	29278	23.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	46.72%	
62) 4-Bromofluorobenzene	13.56	95	2079	4.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	8.54%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.59	85	515	1.094	ug/l #	42
5) Bromomethane	2.19	94	780	9.966	ug/l #	8
16) Acetone	3.22	43	5628	49.759	ug/l	90
20) Methylene Chloride	3.82	84	4850	5.228	ug/l #	85
32) 1,1,1-Trichloroethane	6.88	97	2529	3.252	ug/l	94
36) 1,1-Dichloropropene	7.05	75	2958	5.103	ug/l #	39
38) Carbon Tetrachloride	7.05	117	3866	6.054	ug/l #	11
43) Isopropyl Acetate	9.55	43	7755	20.582	ug/l #	43
51) 4-Methyl-2-Pentanone	10.36	43	2083	9.024	ug/l #	37
73) Isopropylbenzene	13.39	105	2119	14.434	ug/l #	49
74) N-amyl acetate	13.40	43	1143	27.651	ug/l #	45
78) n-propylbenzene	13.72	91	541	3.148	ug/l #	54
79) 2-Chlorotoluene	13.72	91	541	5.718	ug/l #	38
80) 1,3,5-Trimethylbenzene	14.24	105	211	1.893	ug/l #	31
81) trans-1,4-Dichloro-2-buten	13.56	75	535	61.921	ug/l #	17
82) 4-Chlorotoluene	13.98	91	577	5.158	ug/l #	39
84) 1,2,4-Trimethylbenzene	14.24	105	211	1.893	ug/l #	31
85) sec-Butylbenzene	14.24	105	211	1.417	ug/l #	58
87) 1,3-Dichlorobenzene	14.45	146	183	2.735	ug/l #	25
88) 1,4-Dichlorobenzene	14.54	146	262	3.984	ug/l #	25
95) Naphthalene	16.13	128	190	4.831	ug/l #	70

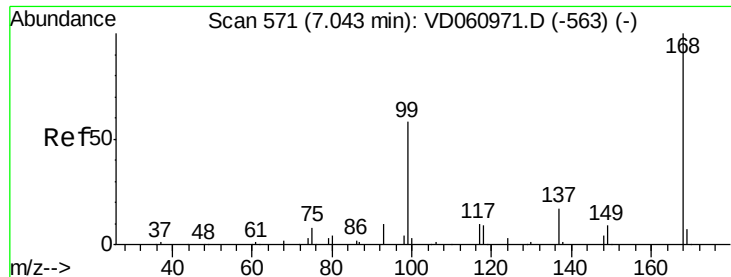
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD031419\
Data File : VD061069.D
Acq On : 14 Mar 2019 17:18
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Sample : K1901-05
Misc : 3.60g/5ml/MSVOA D/SOIL
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
SB-4(0.5-1.5)

Quant Time: Mar 15 02:13:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD061069.D

Acq: 14 Mar 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

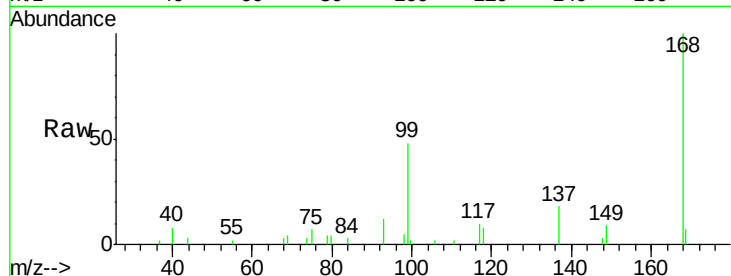
SB-4(0.5-1.5)

Tot Ion:168 Resp: 47518

Ion Ratio Lower Upper

168 100

99 47.9 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

15000

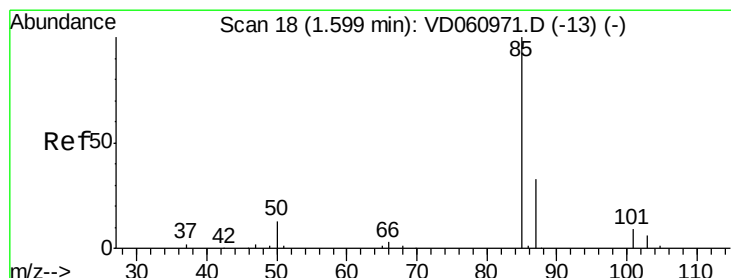
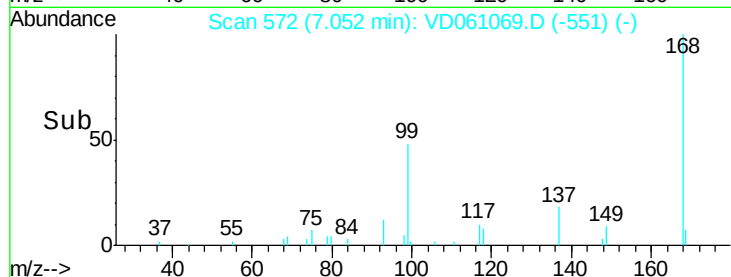
10000

5000

0

Time-->

6.90 7.00 7.10 7.20



#2

Dichlorodifluoromethane

Concen: 1.094 ug/l

RT: 1.59 min Scan# 17

Delta R.T. -0.01 min

Lab File: VD061069.D

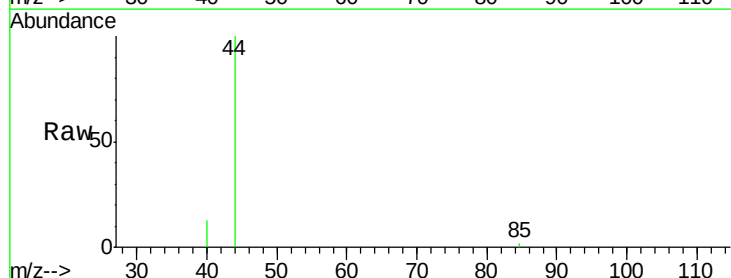
Acq: 14 Mar 2019 17:18

Tgt Ion: 85 Resp: 515

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.4#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.59

500

400

300

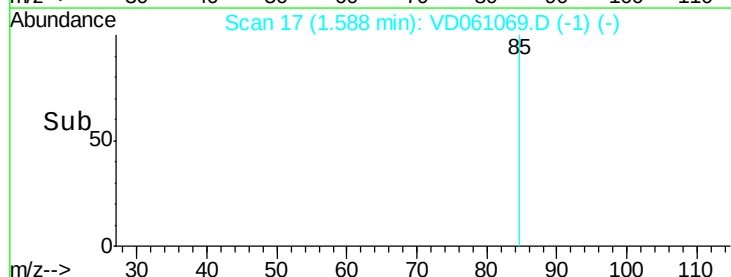
200

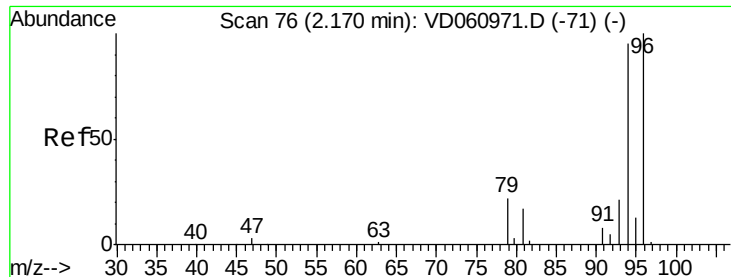
100

0

Time-->

1.56 1.58 1.60 1.62





#5

Bromomethane

Concen: 9.966 ug/l

RT: 2.19 min Scan# 78

Delta R.T. 0.02 min

Lab File: VD061069.D

Acq: 14 Mar 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

SB-4(0.5-1.5)

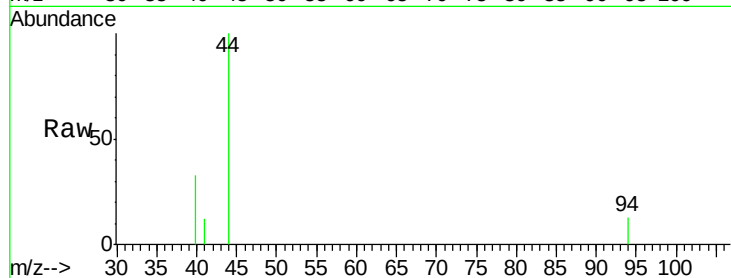
Tot Ion: 94 Resp: 780

Ion Ratio Lower Upper

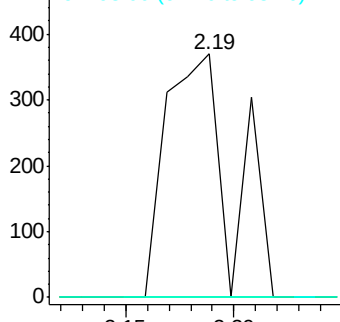
94 100

96 0.0 84.0 126.0#

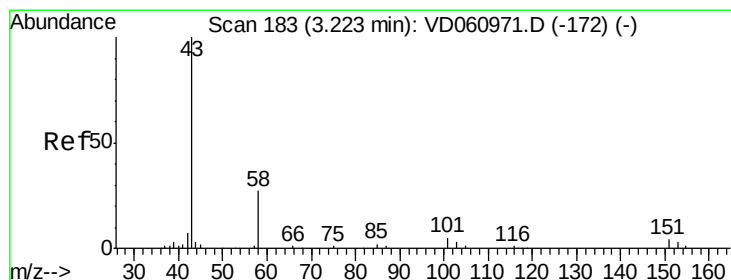
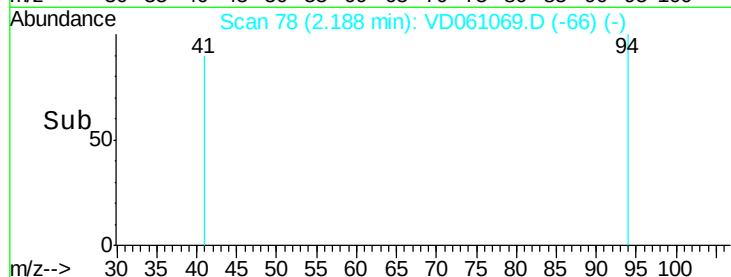
93 0.0 17.3 25.9#



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



Time-->



#16

Acetone

Concen: 49.759 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD061069.D

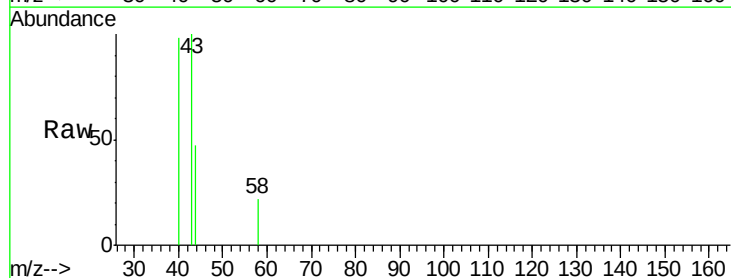
Acq: 14 Mar 2019 17:18

Tgt Ion: 43 Resp: 5628

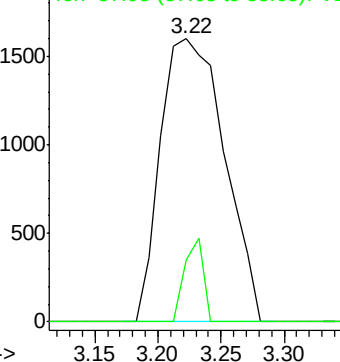
Ion Ratio Lower Upper

43 100

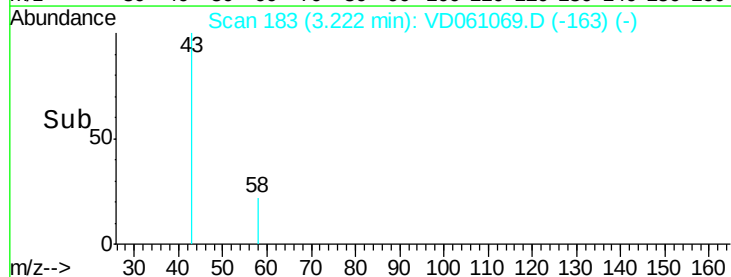
58 21.8 21.6 32.4

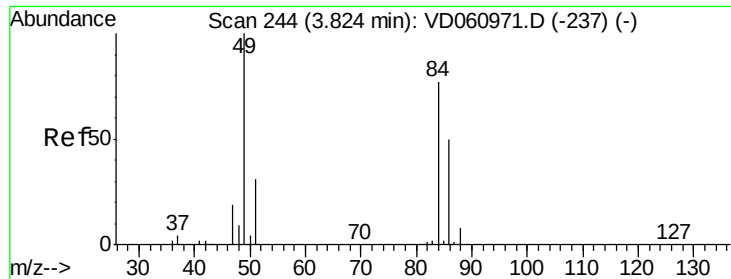


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC



Time-->

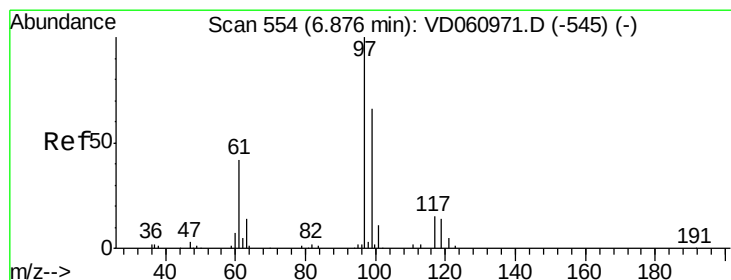
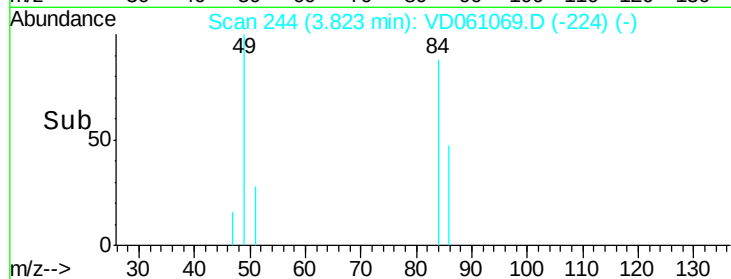
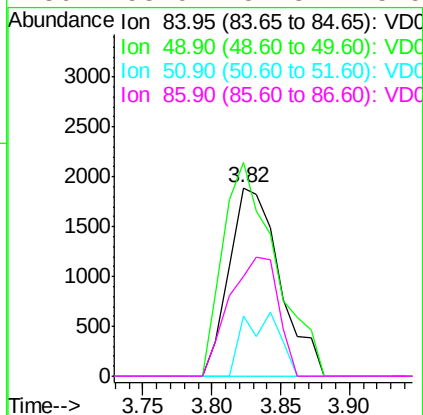
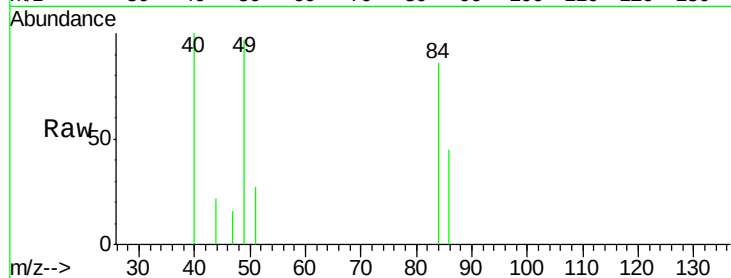




#20
Methylene Chloride
Concen: 5.228 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.00 min
Lab File: VD061069.D
Acq: 14 Mar 2019 17:18

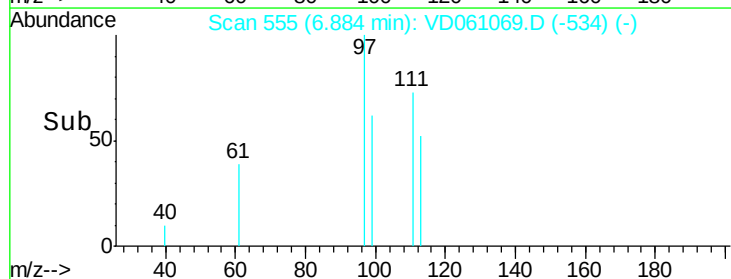
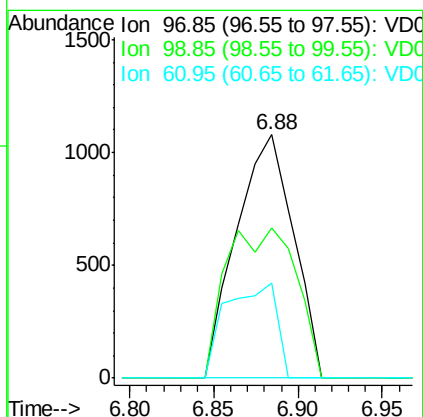
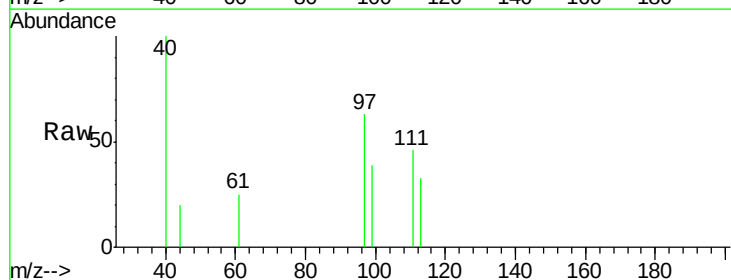
Instrument :
MSVOA_D
ClientSampleId :
SB-4(0.5-1.5)

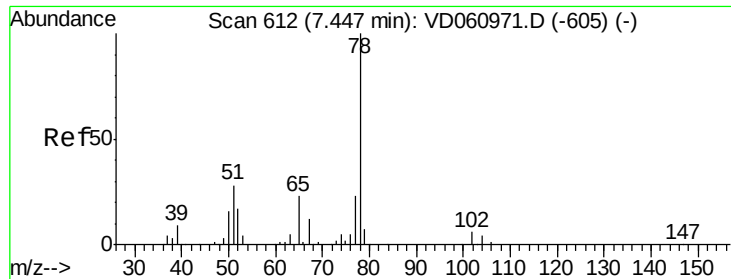
Tot Ion: 84 Resp: 4850
Ion Ratio Lower Upper
84 100
49 113.3 104.2 156.2
51 31.9 32.3 48.5#
86 53.0 52.3 78.5



#32
1,1,1-Trichloroethane
Concen: 3.252 ug/l
RT: 6.88 min Scan# 555
Delta R.T. 0.01 min
Lab File: VD061069.D
Acq: 14 Mar 2019 17:18

Tgt Ion: 97 Resp: 2529
Ion Ratio Lower Upper
97 100
99 61.5 53.2 79.8
61 39.3 33.8 50.8

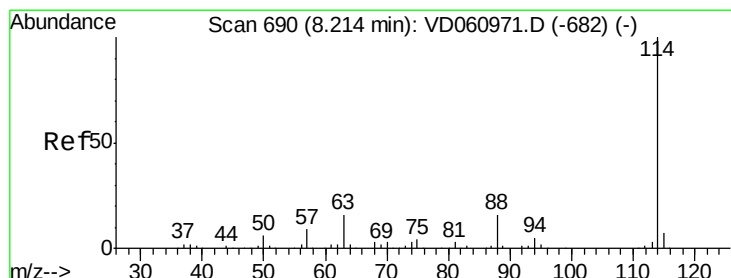
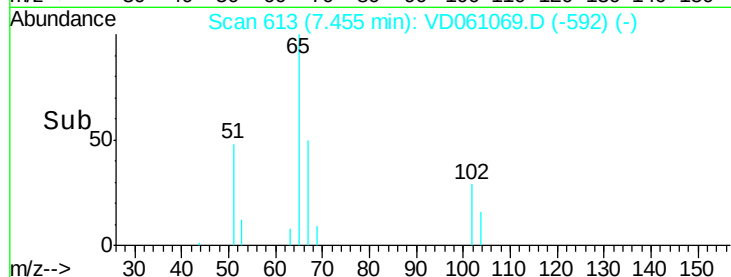
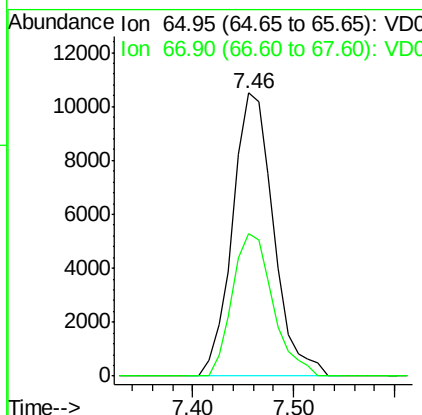
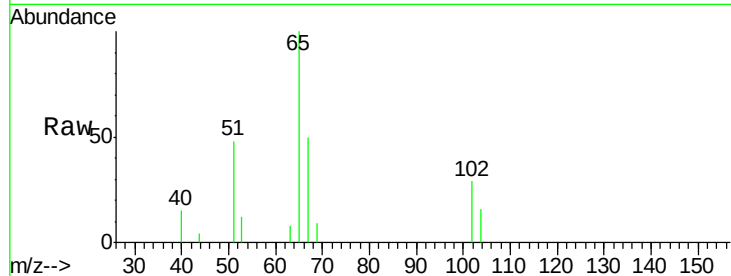




#33
 1,2-Dichloroethane-d4
 Concen: 3.252 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.01 min
 Lab File: VD061069.D
 Acq: 14 Mar 2019 17:18

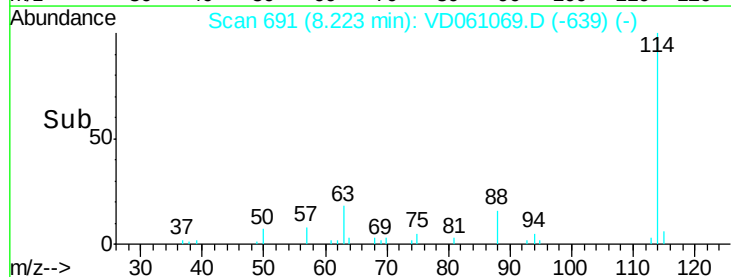
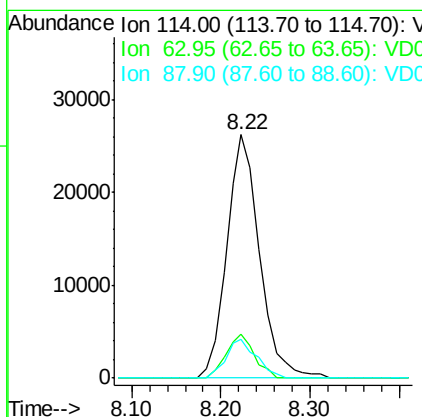
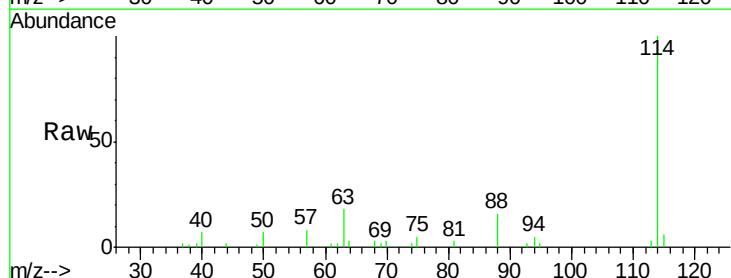
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4(0.5-1.5)

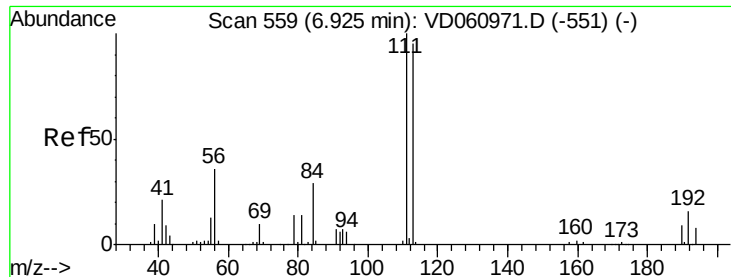
Tot Ion: 65 Resp: 29676
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VD061069.D
 Acq: 14 Mar 2019 17:18

Tgt Ion: 114 Resp: 67253
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 31.4
 88 16.2 0.0 33.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD061069.D

Acq: 14 Mar 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

SB-4(0.5-1.5)

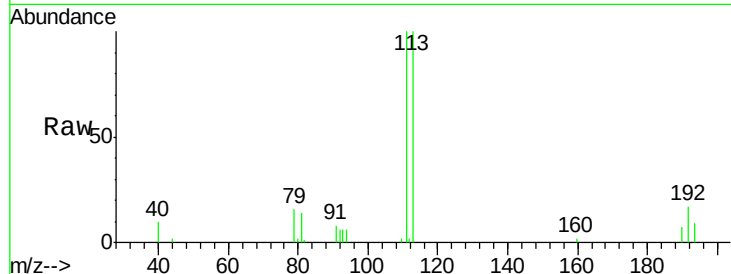
Tot Ion:113 Resp: 62358

Ion Ratio Lower Upper

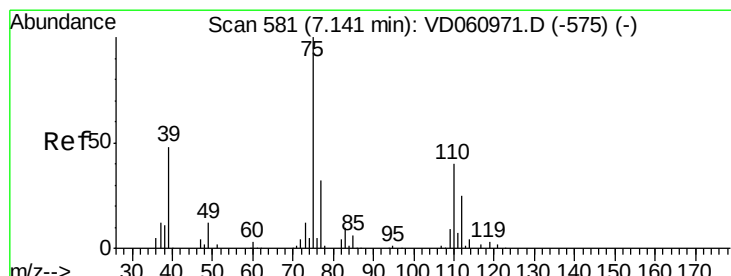
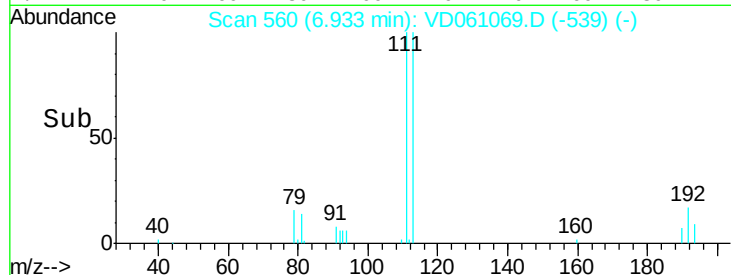
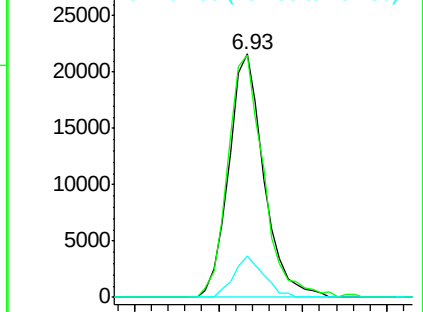
113 100

111 99.5 84.2 126.4

192 16.9 13.1 19.7



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: 5.103 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.09 min

Lab File: VD061069.D

Acq: 14 Mar 2019 17:18

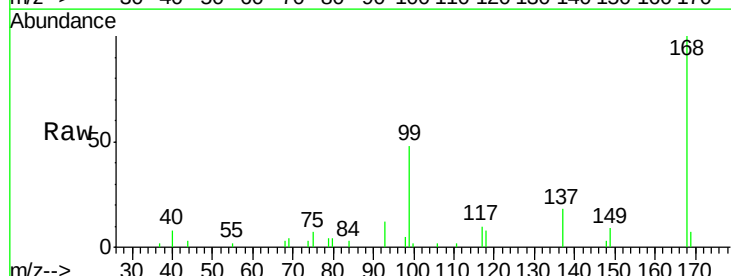
Tgt Ion: 75 Resp: 2958

Ion Ratio Lower Upper

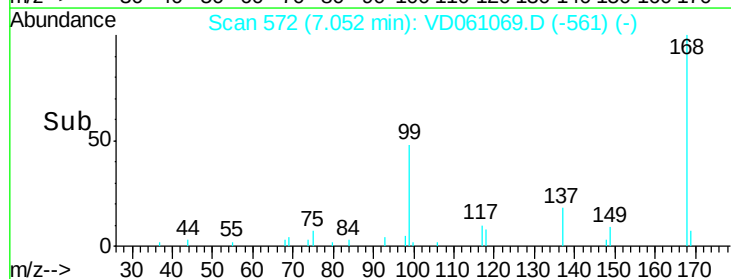
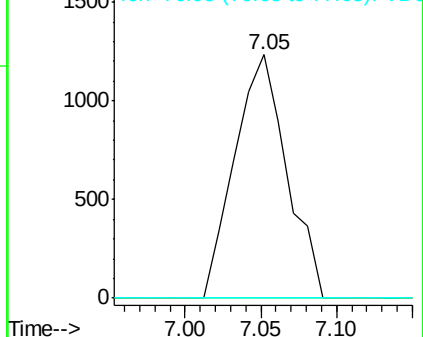
75 100

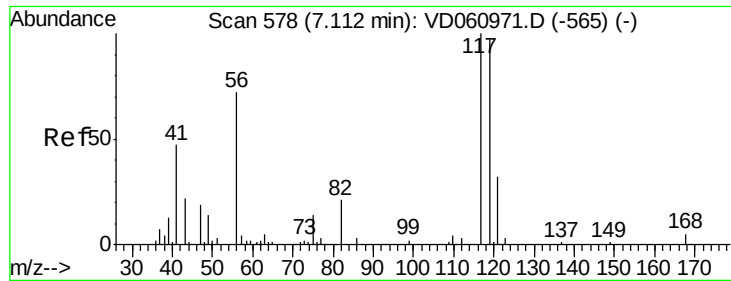
110 0.0 19.7 59.1#

77 0.0 24.7 37.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 6.054 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.06 min

Lab File: VD061069.D

Acq: 14 Mar 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

SB-4(0.5-1.5)

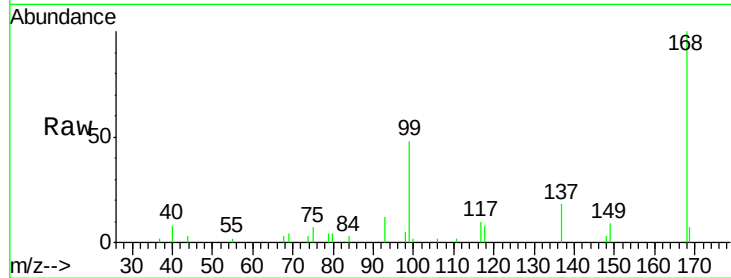
Tot Ion:117 Resp: 3866

Ion Ratio Lower Upper

117 100

119 0.0 77.8 116.8#

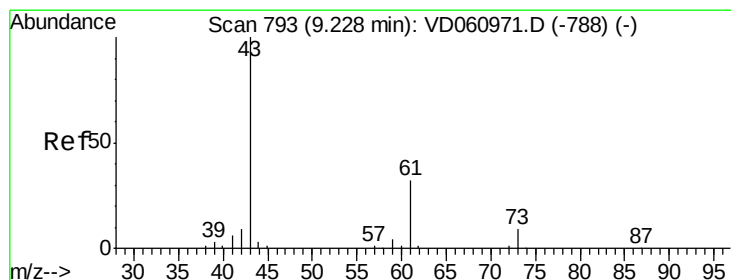
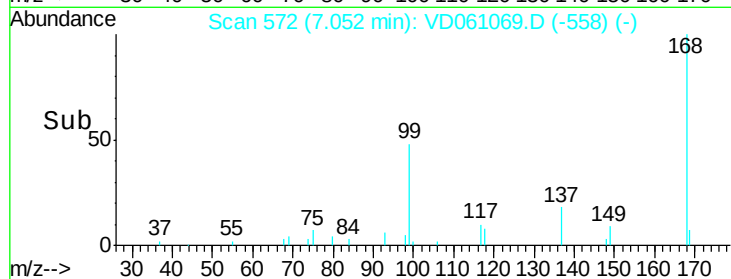
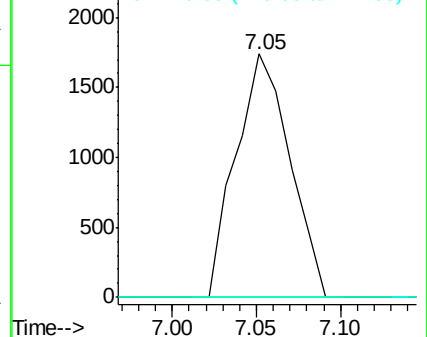
121 0.0 25.3 37.9#



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



#43

Isopropyl Acetate

Concen: 20.582 ug/l

RT: 9.55 min Scan# 826

Delta R.T. 0.32 min

Lab File: VD061069.D

Acq: 14 Mar 2019 17:18

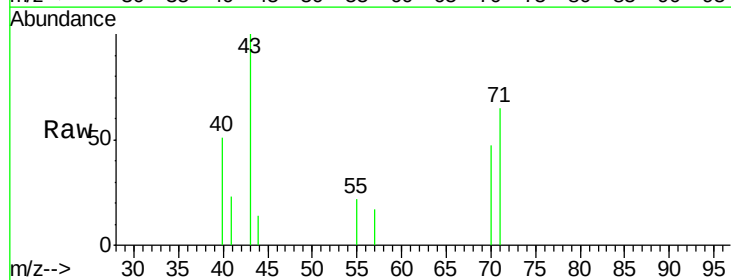
Tgt Ion: 43 Resp: 7755

Ion Ratio Lower Upper

43 100

61 0.0 25.6 38.4#

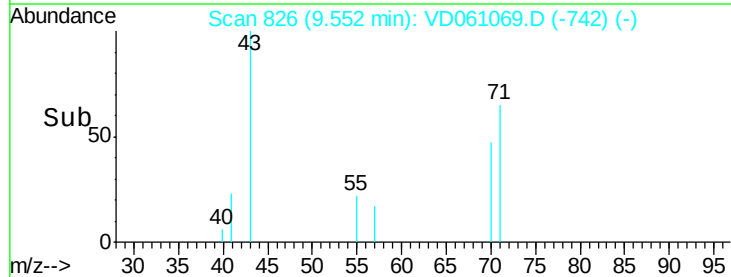
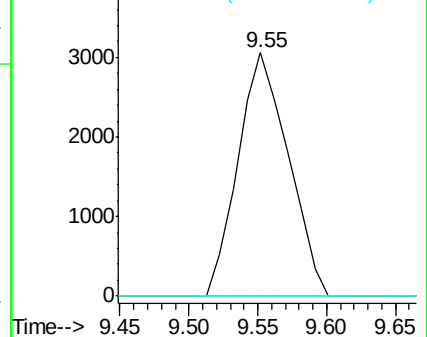
87 0.0 0.2 0.4#

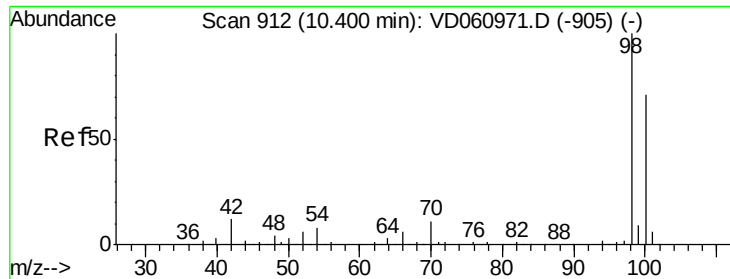


Abundance Ion 42.95 (42.65 to 43.65): V

Ion 60.95 (60.65 to 61.65): V

Ion 87.00 (86.70 to 87.70): V

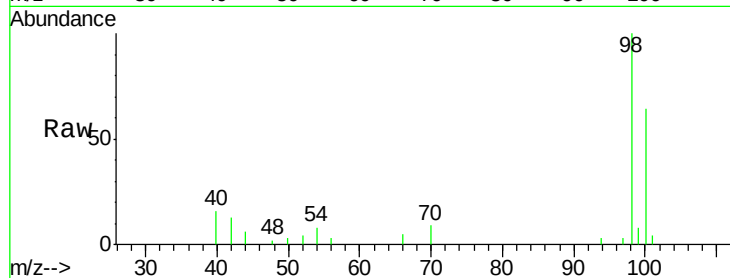




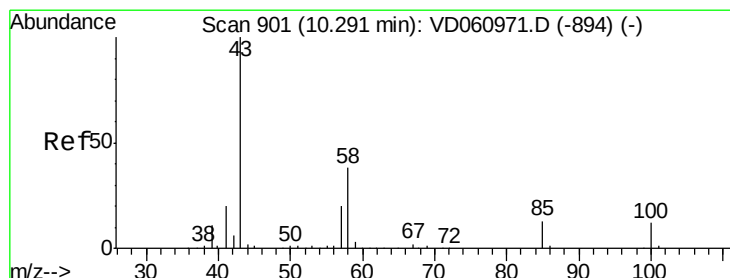
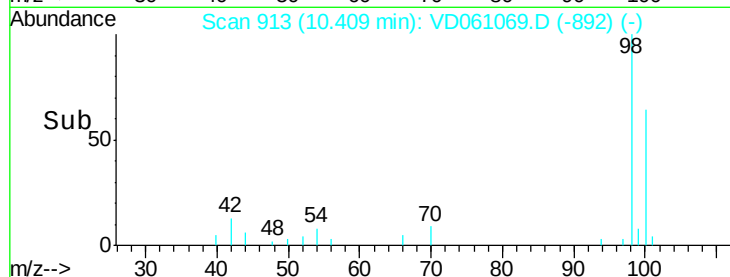
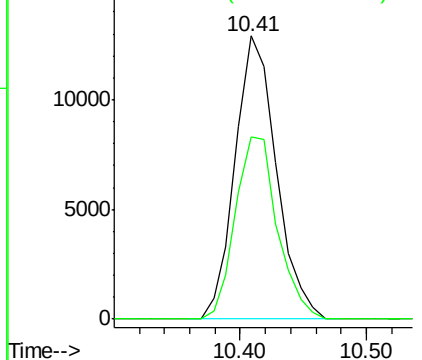
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD061069.D
Acq: 14 Mar 2019 17:18

Instrument :
MSVOA_D
ClientSampleId :
SB-4(0.5-1.5)

Tot Ion: 98 Resp: 29278
Ion Ratio Lower Upper
98 100
100 64.4 57.4 86.2

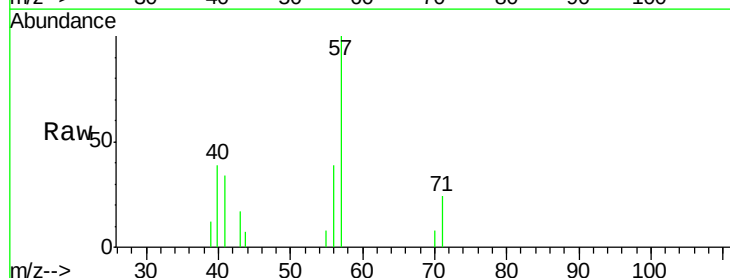


Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)
Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

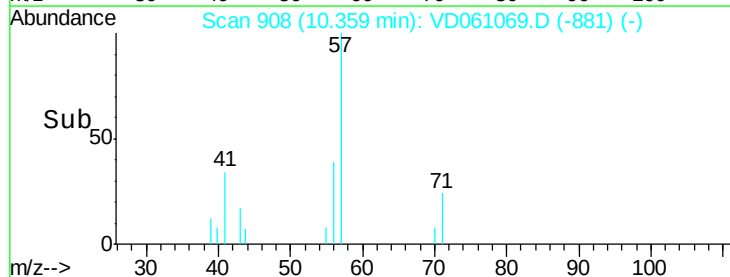
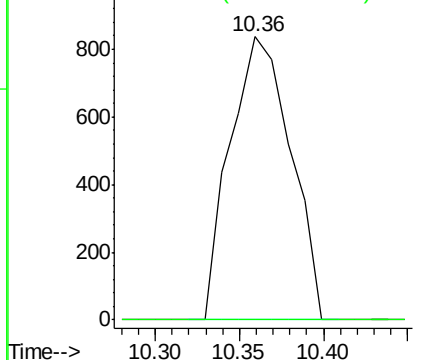


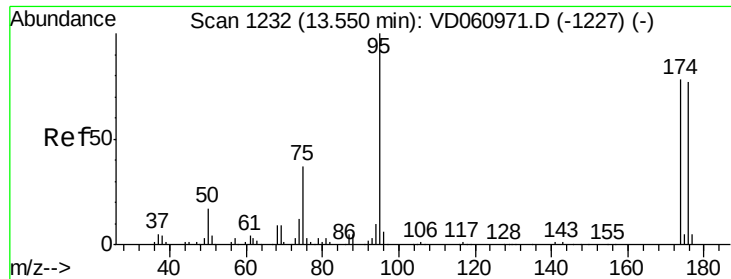
#51
4-Methyl-2-Pentanone
Concen: 9.024 ug/l
RT: 10.36 min Scan# 908
Delta R.T. 0.07 min
Lab File: VD061069.D
Acq: 14 Mar 2019 17:18

Tgt Ion: 43 Resp: 2083
Ion Ratio Lower Upper
43 100
58 0.0 30.2 45.2#



Abundance Ion 42.95 (42.65 to 43.65): VD060971.D (-894) (-)
Ion 57.95 (57.65 to 58.65): VD060971.D (-894) (-)

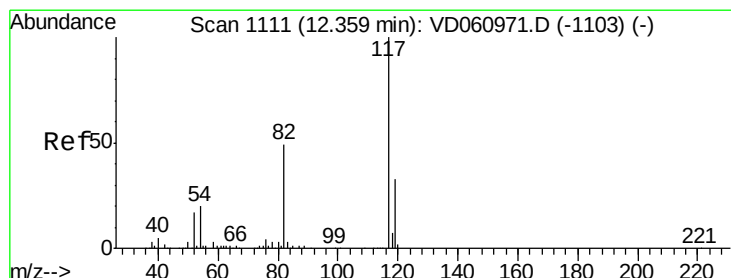
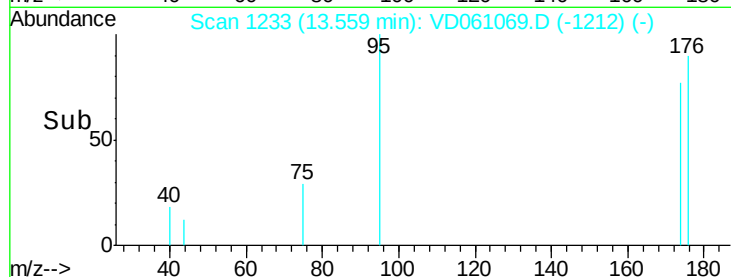
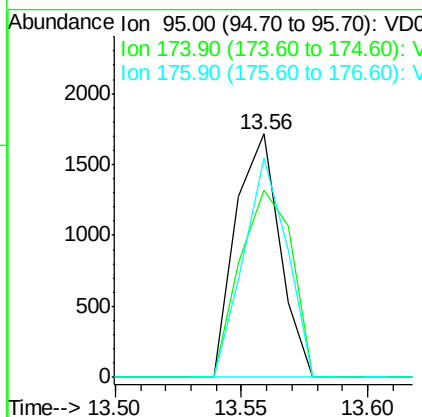
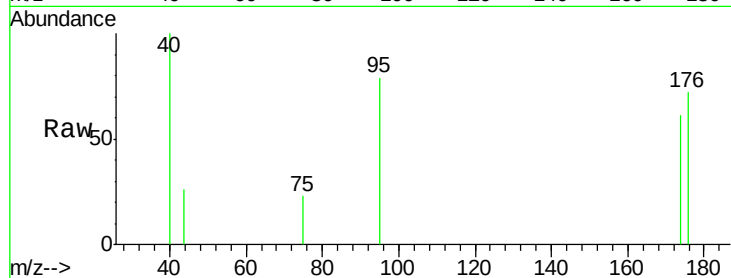




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD061069.D
Acq: 14 Mar 2019 17:18

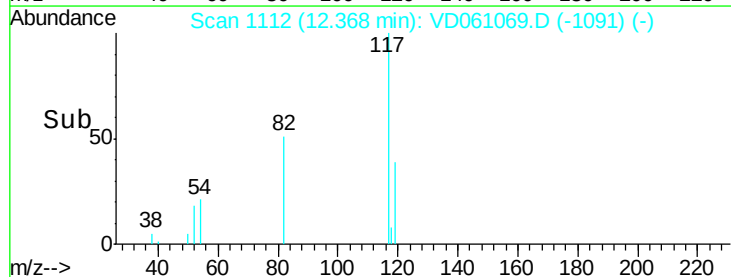
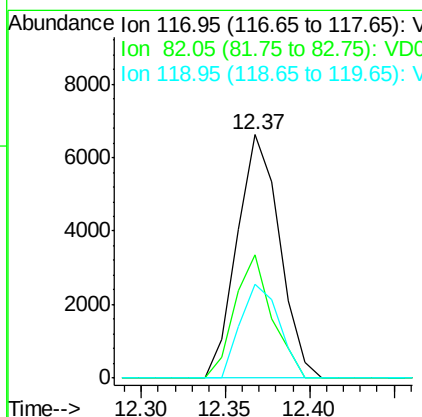
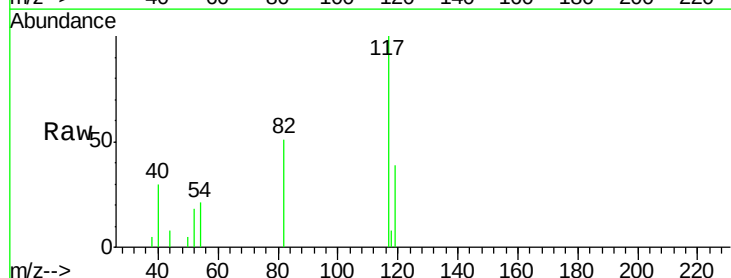
Instrument :
MSVOA_D
ClientSampleId :
SB-4(0.5-1.5)

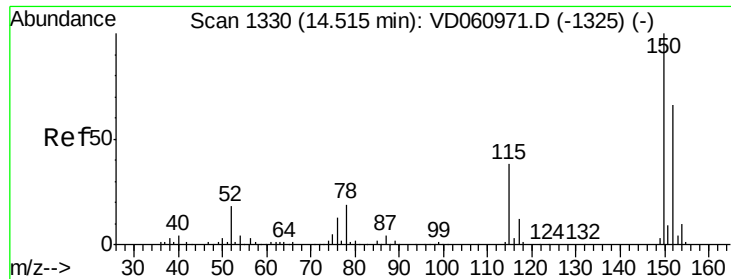
Tot Ion: 95 Resp: 2079
Ion Ratio Lower Upper
95 100
174 76.8 0.0 155.6
176 90.0 0.0 153.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061069.D
Acq: 14 Mar 2019 17:18

Tgt Ion: 117 Resp: 11567
Ion Ratio Lower Upper
117 100
82 50.7 38.9 58.3
119 38.7 26.6 39.8

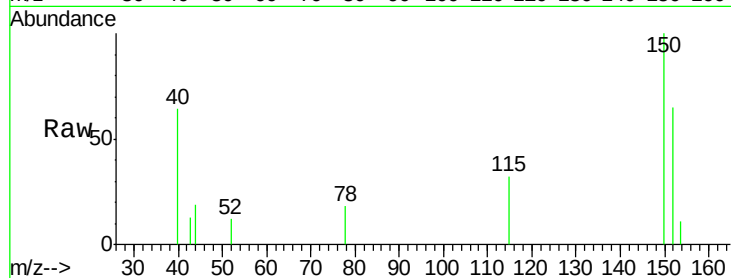




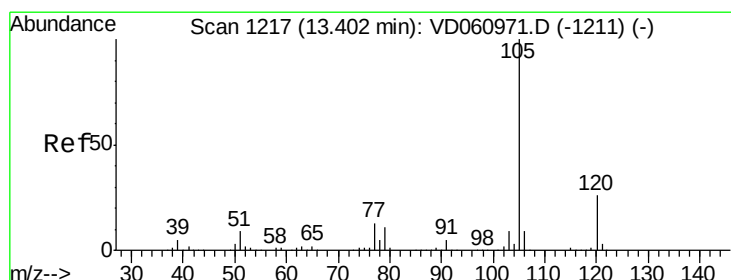
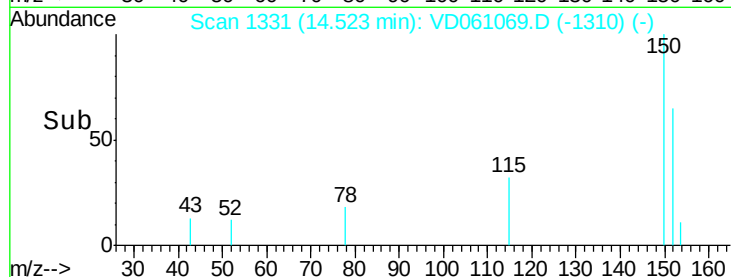
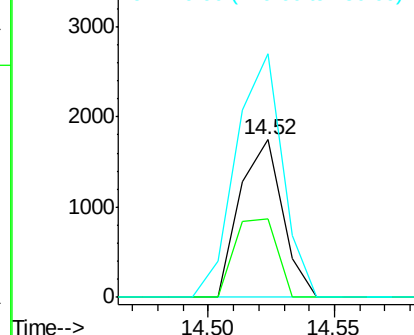
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1331
 Delta R.T. 0.01 min
 Lab File: VD061069.D
 Acq: 14 Mar 2019 17:18

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4(0.5-1.5)

Tot Ion:152 Resp: 2037
 Ion Ratio Lower Upper
 152 100
 115 49.5 28.6 85.9
 150 154.8 0.0 310.6

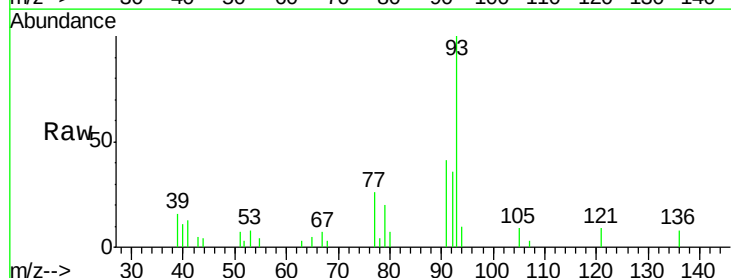


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V

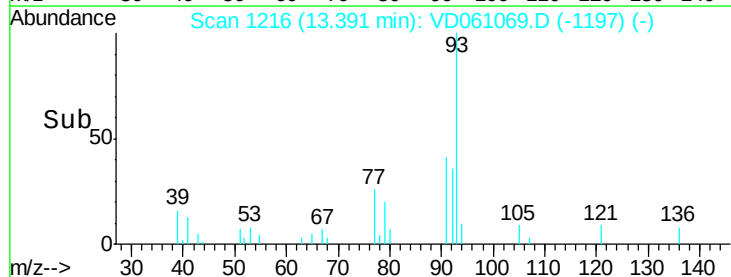
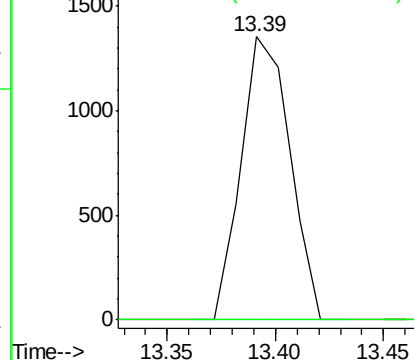


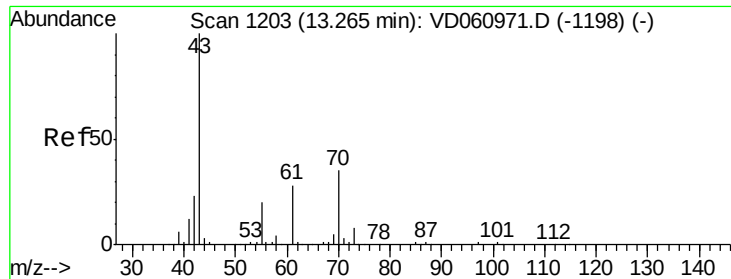
#73
 Isopropylbenzene
 Concen: 14.434 ug/l
 RT: 13.39 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: VD061069.D
 Acq: 14 Mar 2019 17:18

Tgt Ion:105 Resp: 2119
 Ion Ratio Lower Upper
 105 100
 120 0.0 12.8 38.4#



Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V





#74

N-amyl acetate

Concen: 27.651 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.14 min

Lab File: VD061069.D

Acq: 14 Mar 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

SB-4(0.5-1.5)

Tot Ion: 43 Resp: 1143

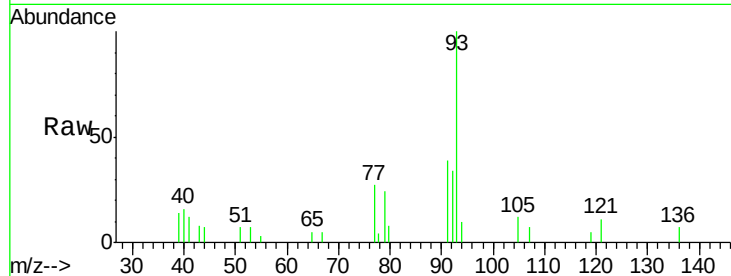
Ion Ratio Lower Upper

43 100

70 0.0 27.7 41.5#

55 42.5 16.2 24.2#

61 0.0 22.3 33.5#

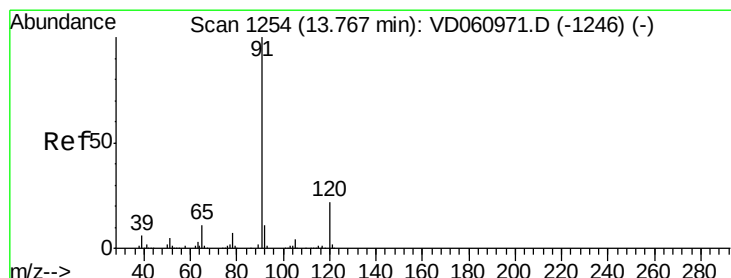
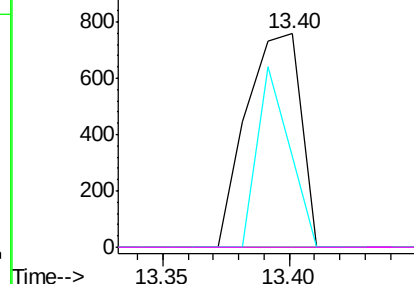
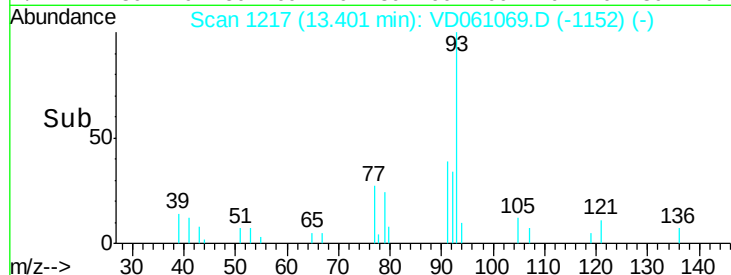


Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 3.148 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. -0.05 min

Lab File: VD061069.D

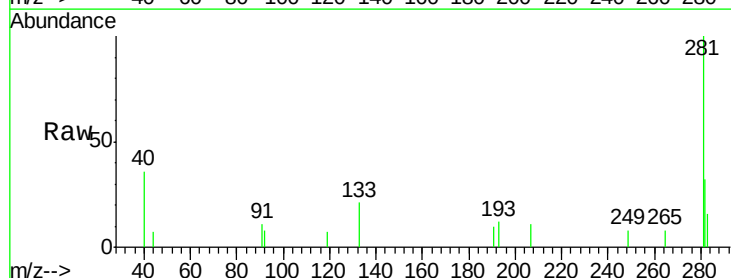
Acq: 14 Mar 2019 17:18

Tgt Ion: 91 Resp: 541

Ion Ratio Lower Upper

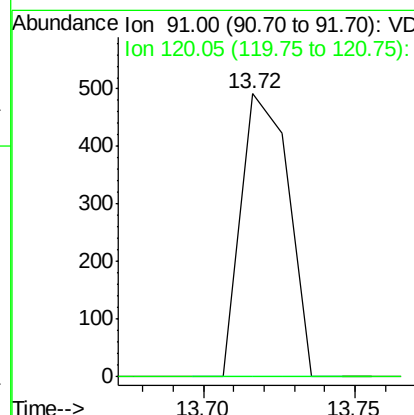
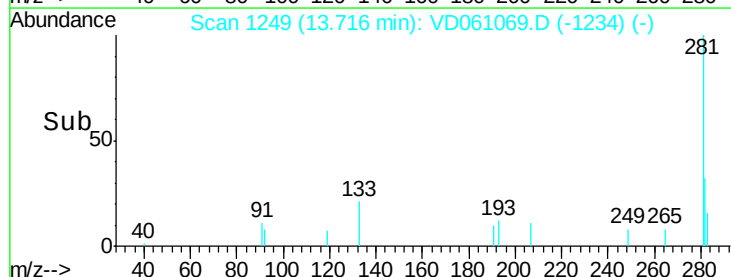
91 100

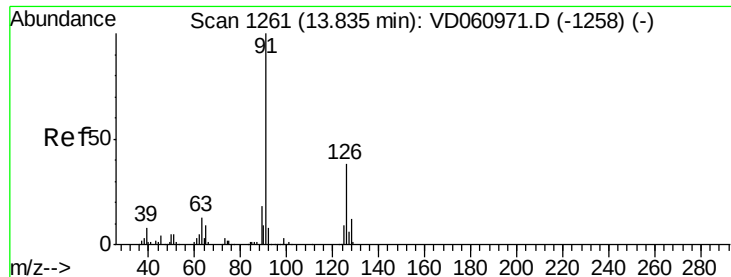
120 0.0 10.8 32.3#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 5.718 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. -0.12 min

Lab File: VD061069.D

Acq: 14 Mar 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

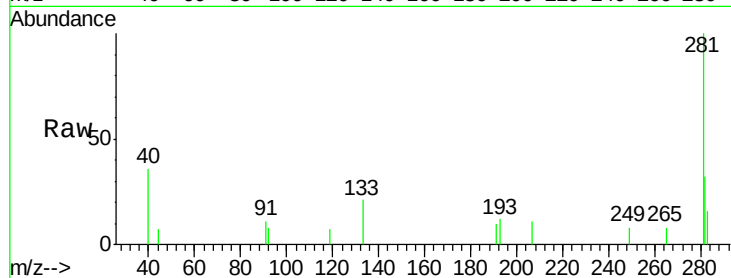
SB-4(0.5-1.5)

Tot Ion: 91 Resp: 541

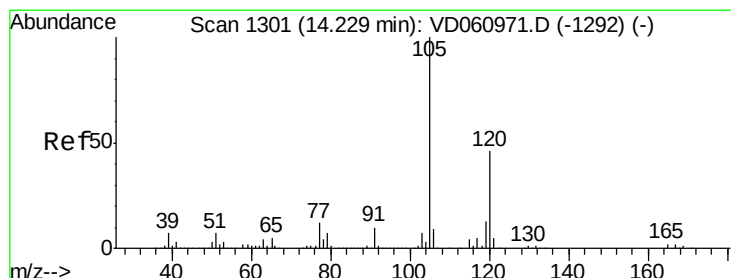
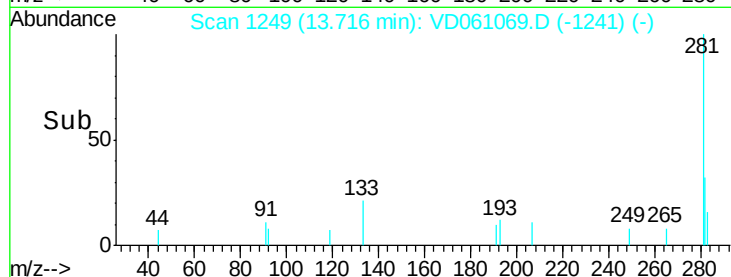
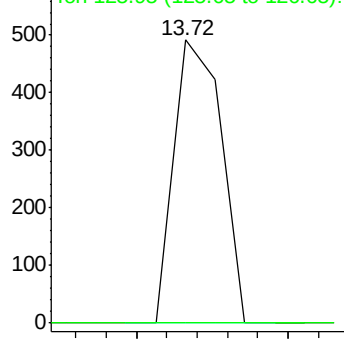
Ion Ratio Lower Upper

91 100

126 0.0 18.6 55.6#



Abundance Ion 91.00 (90.70 to 91.70): V



#80

1,3,5-Trimethylbenzene

Concen: 1.893 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD061069.D

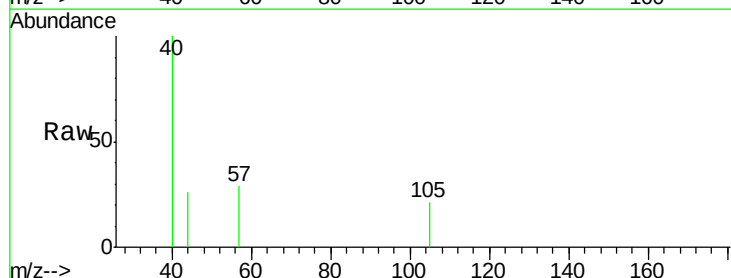
Acq: 14 Mar 2019 17:18

Tgt Ion: 105 Resp: 211

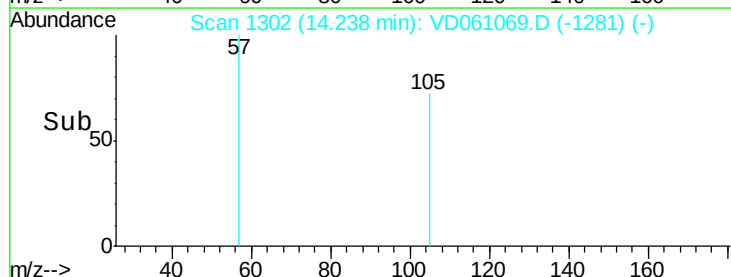
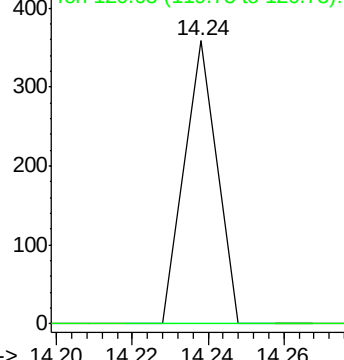
Ion Ratio Lower Upper

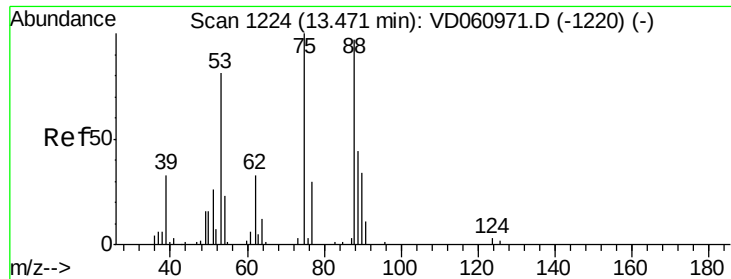
105 100

120 0.0 22.9 68.5#



Abundance Ion 105.05 (104.75 to 105.75): V

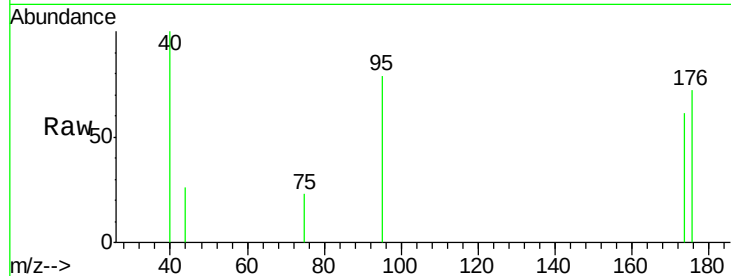




#81
trans-1,4-Dichloro-2-butene
Concen: 61.921 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.09 min
Lab File: VD061069.D
Acq: 14 Mar 2019 17:18

Instrument :
MSVOA_D
ClientSampleId :
SB-4(0.5-1.5)

Tot Ion: 75 Resp: 535
Ion Ratio Lower Upper
75 100
53 0.0 64.4 96.6#
89 0.0 34.8 52.2#



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

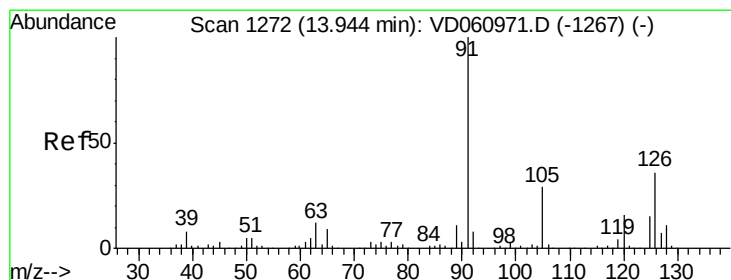
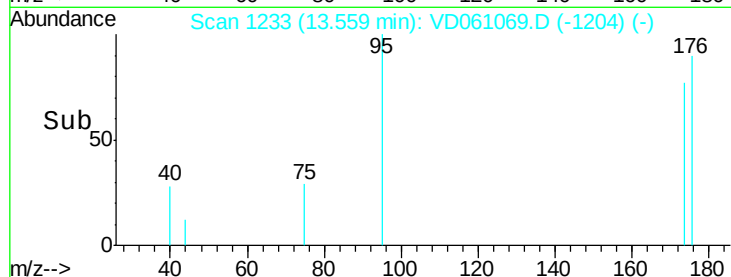
13.56

400

200

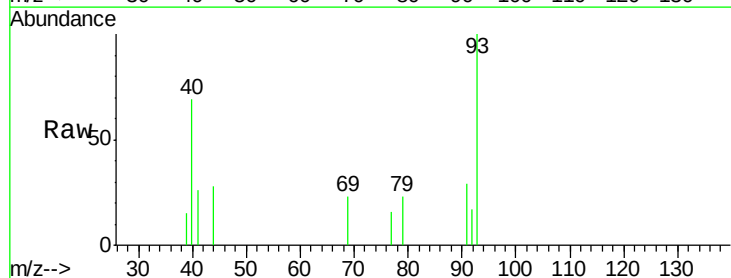
0

Time-->



#82
4-Chlorotoluene
Concen: 5.158 ug/l
RT: 13.98 min Scan# 1276
Delta R.T. 0.04 min
Lab File: VD061069.D
Acq: 14 Mar 2019 17:18

Tgt Ion: 91 Resp: 577
Ion Ratio Lower Upper
91 100
126 0.0 18.0 54.0#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

13.98

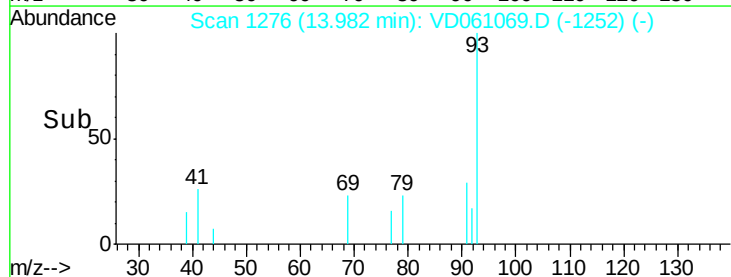
600

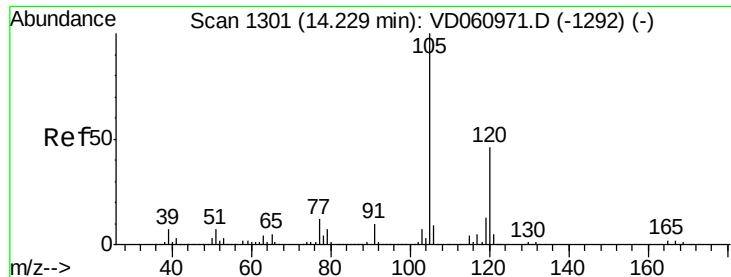
400

200

0

Time-->

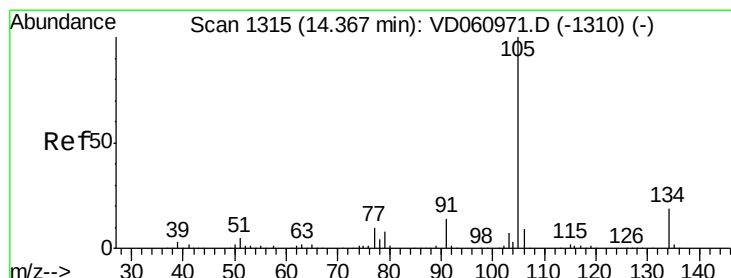
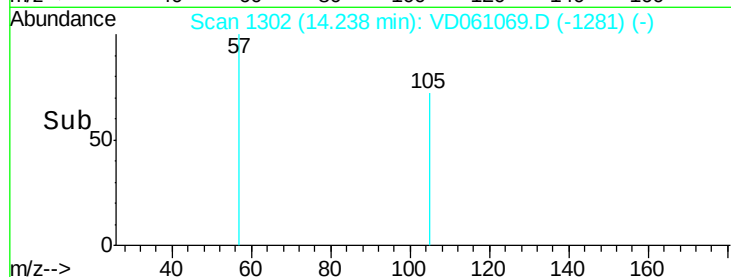
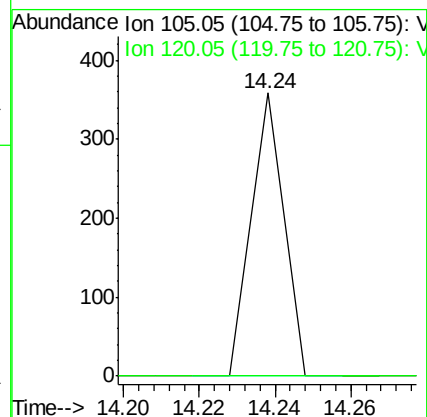
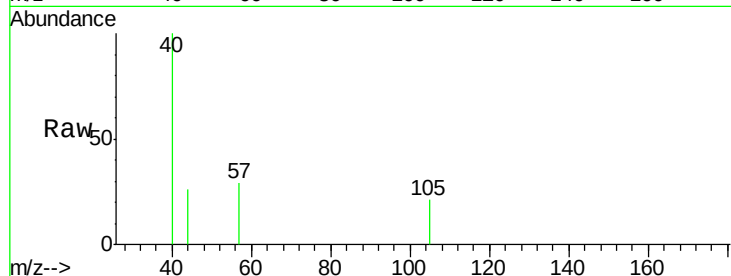




#84
 1,2,4-Trimethylbenzene
 Concen: 1.893 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: VD061069.D
 Acq: 14 Mar 2019 17:18

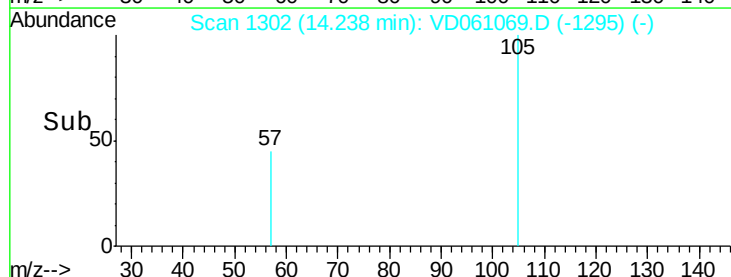
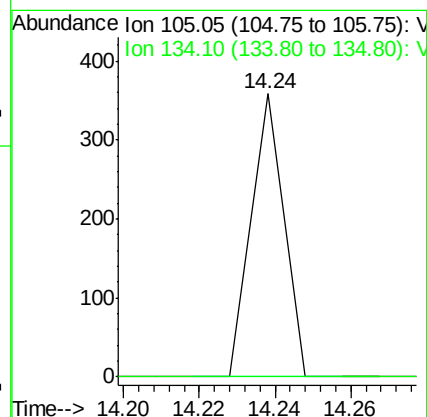
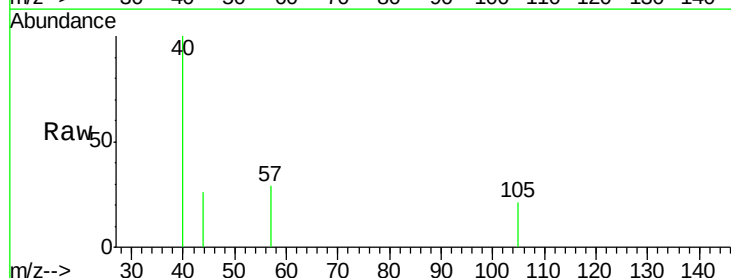
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4(0.5-1.5)

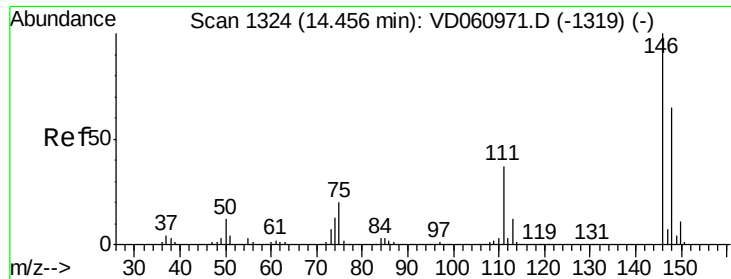
Tot Ion:105 Resp: 211
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.9 68.5#



#85
 sec-Butylbenzene
 Concen: 1.417 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. -0.13 min
 Lab File: VD061069.D
 Acq: 14 Mar 2019 17:18

Tgt Ion:105 Resp: 211
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.4 28.2#

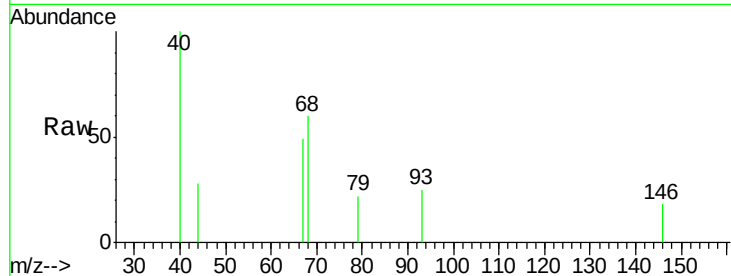




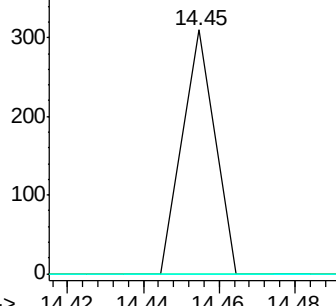
#87
 1,3-Dichlorobenzene
 Concen: 2.735 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD061069.D
 Acq: 14 Mar 2019 17:18

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4(0.5-1.5)

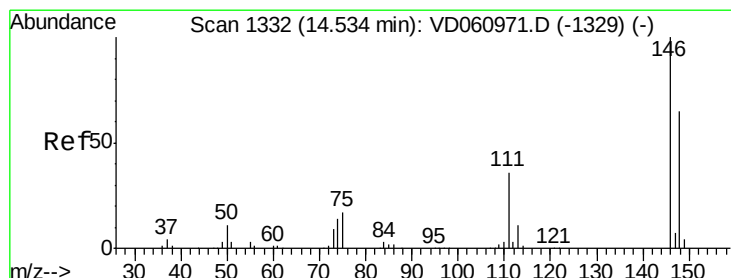
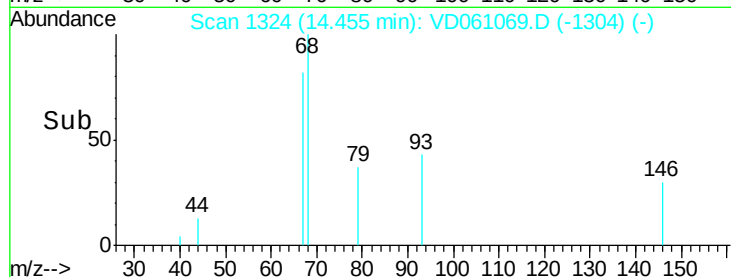
Tot Ion:146 Resp: 183
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.4 55.4#
 148 0.0 32.5 97.4#



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

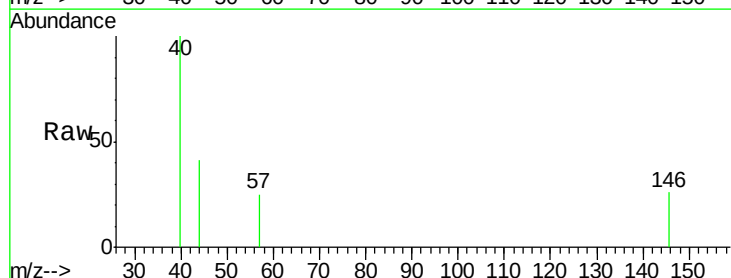


Time--> 14.42 14.44 14.46 14.48

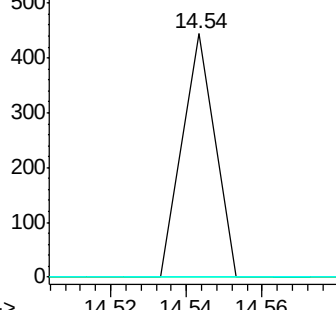


#88
 1,4-Dichlorobenzene
 Concen: 3.984 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD061069.D
 Acq: 14 Mar 2019 17:18

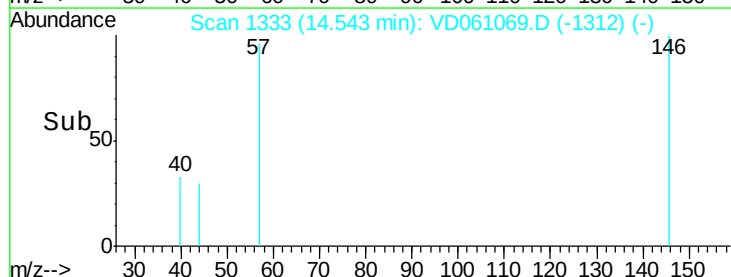
Tgt Ion:146 Resp: 262
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.4 55.2#
 148 0.0 32.5 97.5#

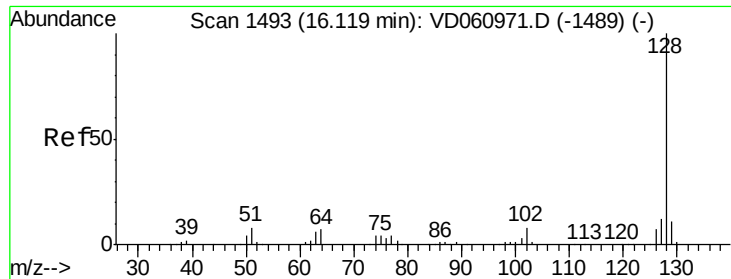


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



Time--> 14.52 14.54 14.56





#95

Naphthalene

Concen: 4.831 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD061069.D

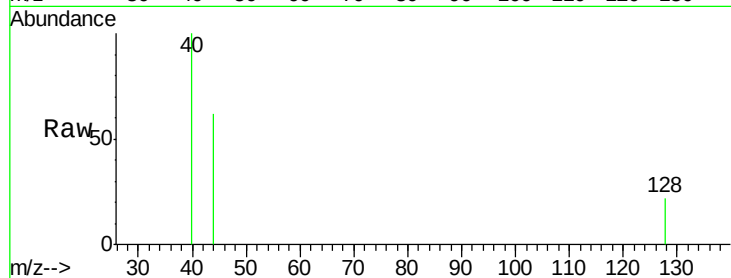
Acq: 14 Mar 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

SB-4(0.5-1.5)



Tot Ion:128 Resp: 190

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.8#

129 0.0 8.5 12.7#

