

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032719\
 Data File : VD061371.D
 Acq On : 28 Mar 2019 1:47
 Operator : VA/AP
 Sample : K1693-13RE
 Misc : 6.16g/5ml/MSVOA D/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BFB

Quant Time: Mar 28 05:43:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 02:13:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	20082	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.19	114	47130	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.34	117	39716	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	17013	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.42	65	18383	107.16	ug/l	-0.01
Spiked Amount			Recovery	=	214.32%	
35) Dibromofluoromethane	6.89	113	21881	60.75	ug/l	-0.01
Spiked Amount			Recovery	=	121.50%	
50) Toluene-d8	10.38	98	31071	35.97	ug/l	0.00
Spiked Amount			Recovery	=	71.94%	
62) 4-Bromofluorobenzene	13.53	95	17037	51.43	ug/l	-0.01
Spiked Amount			Recovery	=	102.86%	

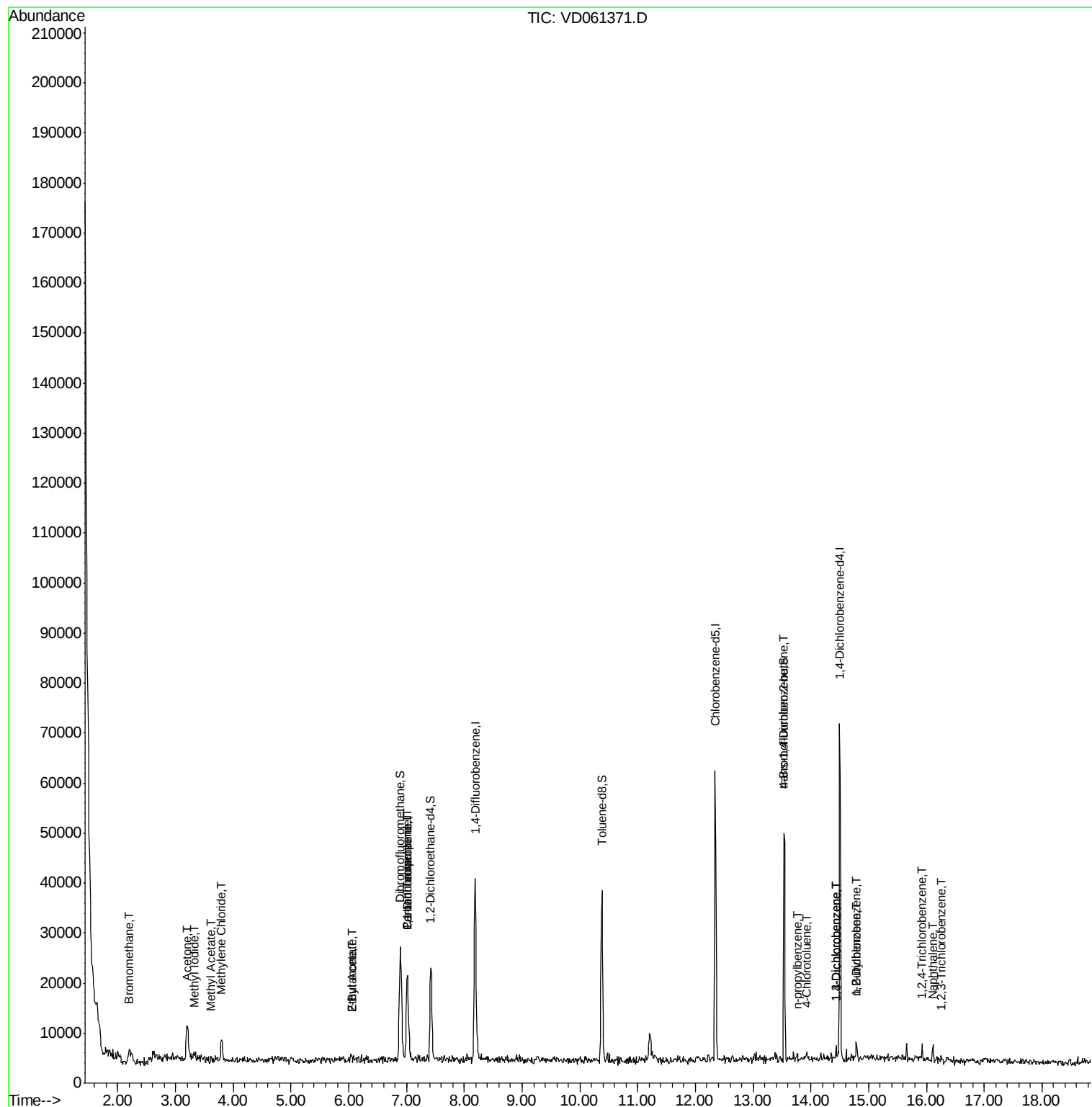
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	946	29.705	ug/l #	10
10) Methyl Iodide	3.31	142	2601	9.808	ug/l #	89
16) Acetone	3.20	43	13874	314.608	ug/l	99
18) Methyl Acetate	3.62	43	529	5.705	ug/l #	55
20) Methylene Chloride	3.80	84	2696	9.352	ug/l #	84
25) 2-Butanone	6.05	43	669	12.060	ug/l #	54
36) 1,1-Dichloropropene	7.02	75	732	1.780	ug/l #	38
37) Ethyl Acetate	6.05	43	669	3.803	ug/l #	65
38) Carbon Tetrachloride	7.02	117	1193	2.547	ug/l #	10
78) n-propylbenzene	13.75	91	1501	1.036	ug/l #	52
81) trans-1,4-Dichloro-2-buten	13.53	75	5694	75.989	ug/l #	18
82) 4-Chlorotoluene	13.93	91	993	1.161	ug/l #	36
87) 1,3-Dichlorobenzene	14.44	146	1237	2.081	ug/l	91
88) 1,4-Dichlorobenzene	14.44	146	1237	2.134	ug/l	91
89) n-Butylbenzene	14.78	91	1217	1.286	ug/l	85
91) 1,2-Dichlorobenzene	14.79	146	955	1.959	ug/l	87
93) 1,2,4-Trichlorobenzene	15.93	180	1130	5.088	ug/l	93
95) Naphthalene	16.11	128	3019	8.917	ug/l #	86
96) 1,2,3-Trichlorobenzene	16.25	180	658	6.732	ug/l #	75

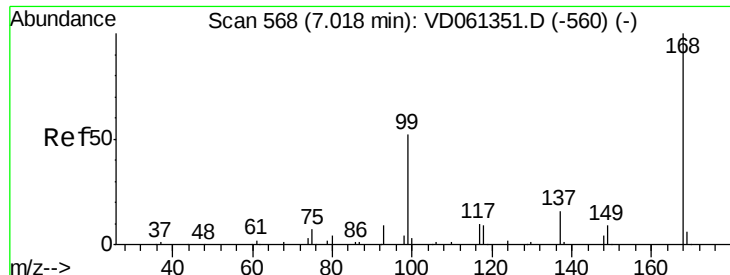
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.01 min Scan# 567

Delta R.T. -0.01 min

Lab File: VD061371.D

Acq: 28 Mar 2019 1:47

Instrument :

MSVOA_D

ClientSampleId :

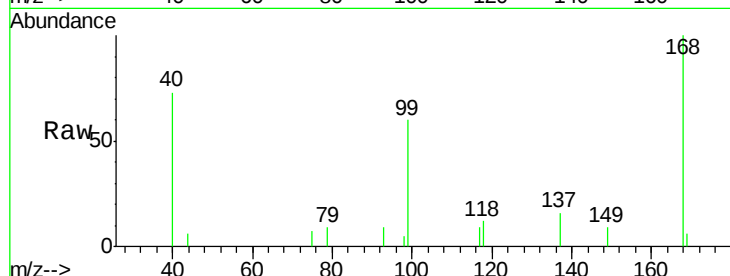
BFB

Tot Ion:168 Resp: 20082

Ion Ratio Lower Upper

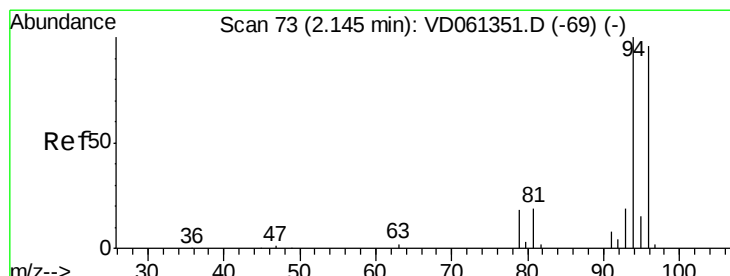
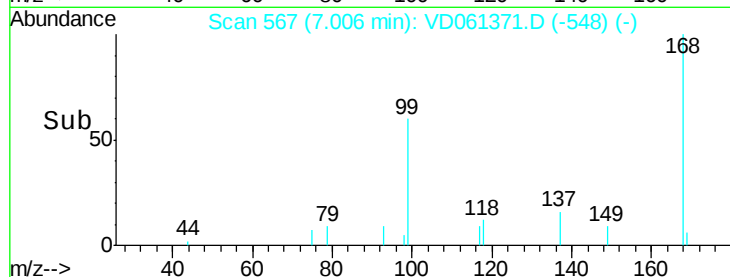
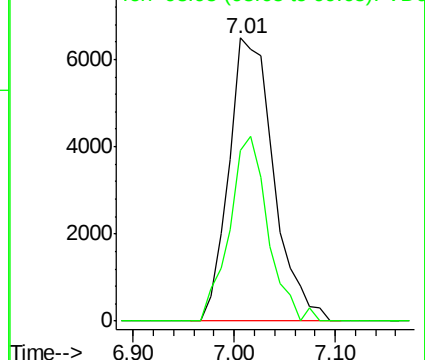
168 100

99 60.4 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 29.705 ug/l

RT: 2.18 min Scan# 77

Delta R.T. 0.04 min

Lab File: VD061371.D

Acq: 28 Mar 2019 1:47

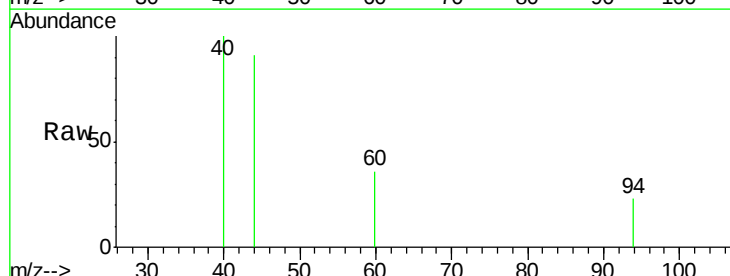
Tgt Ion: 94 Resp: 946

Ion Ratio Lower Upper

94 100

96 0.0 78.3 117.5#

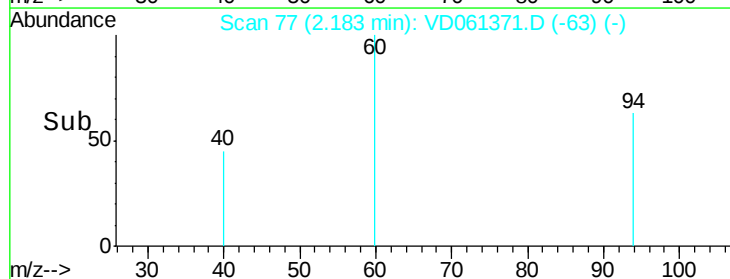
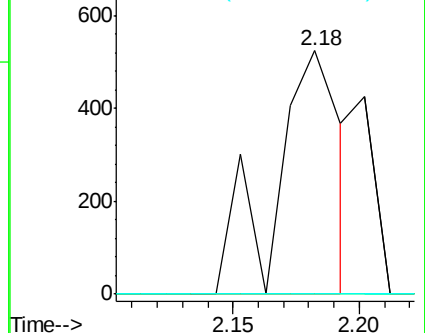
93 0.0 15.6 23.4#

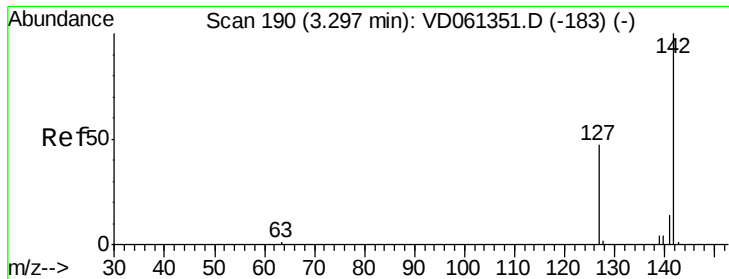


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

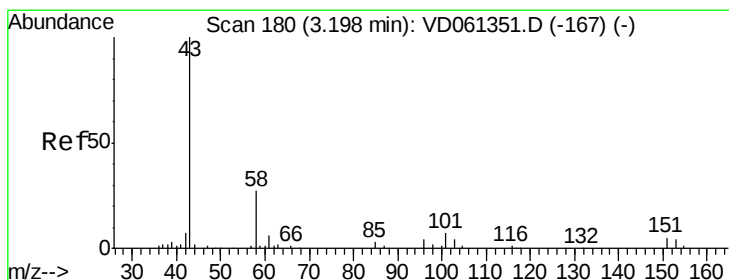
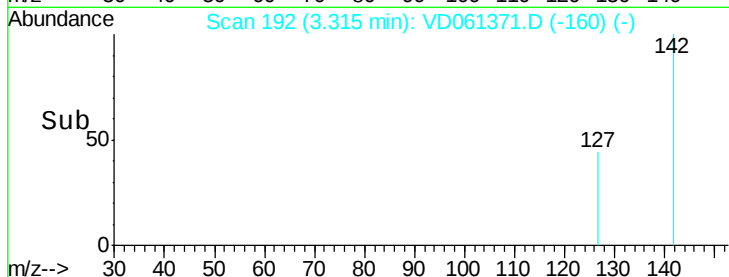
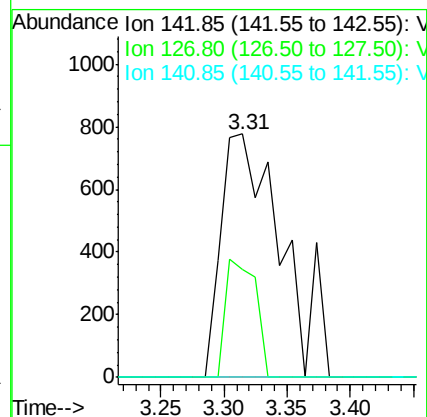
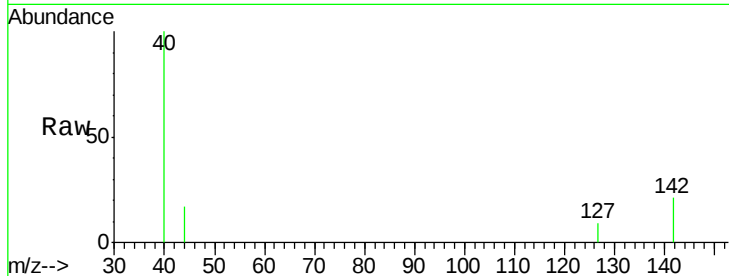




#10
Methvl Iodide
Concen: 9.808 ug/l
RT: 3.31 min Scan# 192
Delta R.T. 0.02 min
Lab File: VD061371.D
Acq: 28 Mar 2019 1:47

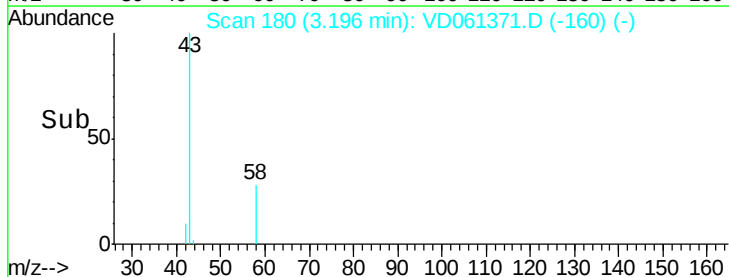
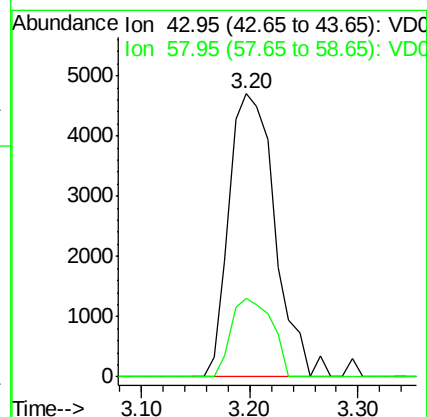
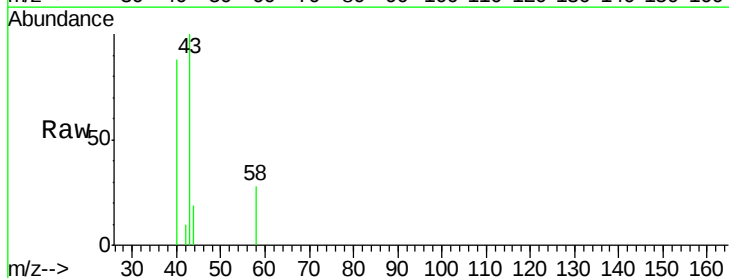
Instrument :
MSVOA_D
ClientSampleId :
BFB

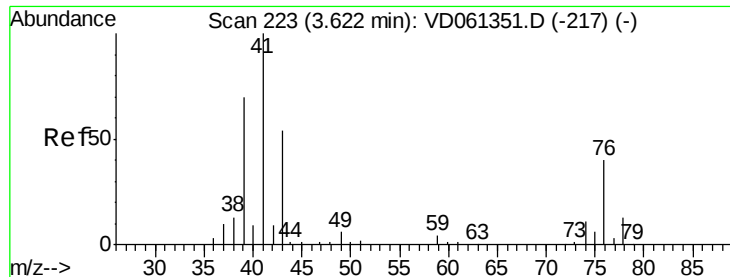
Tot Ion:142 Resp: 2601
Ion Ratio Lower Upper
142 100
127 44.3 37.7 56.5
141 0.0 11.5 17.3#



#16
Acetone
Concen: 314.608 ug/l
RT: 3.20 min Scan# 180
Delta R.T. -0.00 min
Lab File: VD061371.D
Acq: 28 Mar 2019 1:47

Tgt Ion: 43 Resp: 13874
Ion Ratio Lower Upper
43 100
58 27.6 21.5 32.3

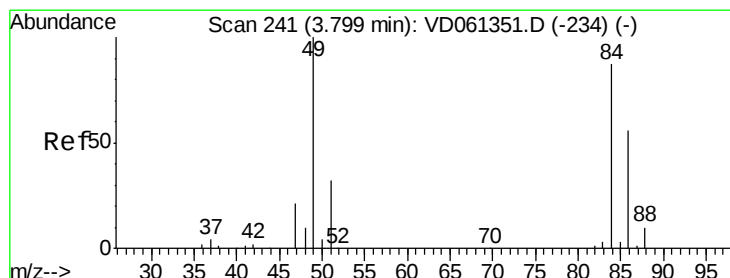
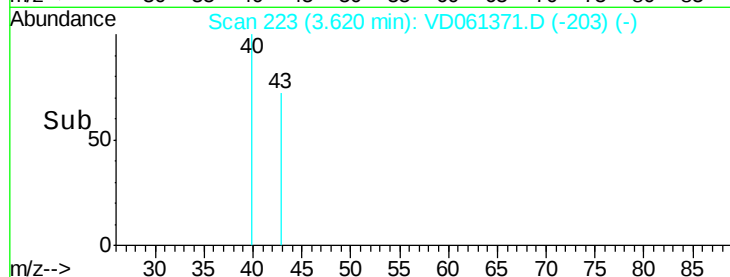
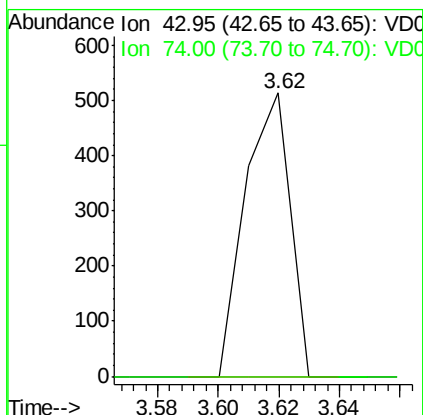
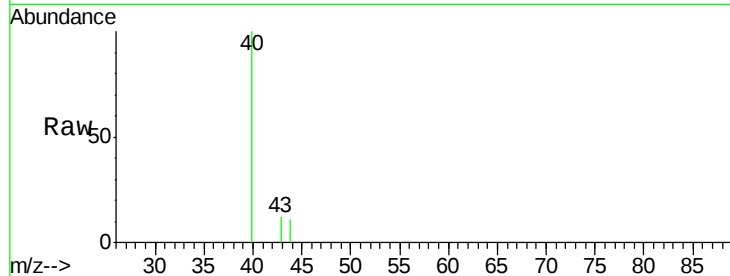




#18
Methyl Acetate
Concen: 5.705 ug/l
RT: 3.62 min Scan# 223
Delta R.T. -0.00 min
Lab File: VD061371.D
Acq: 28 Mar 2019 1:47

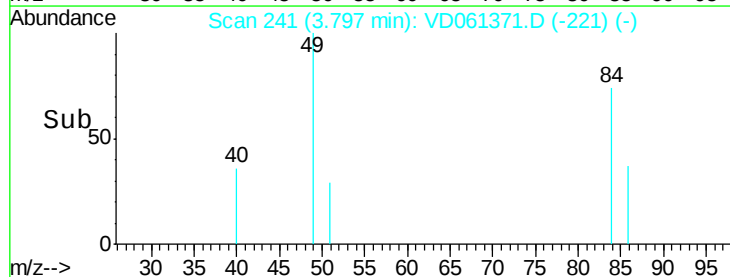
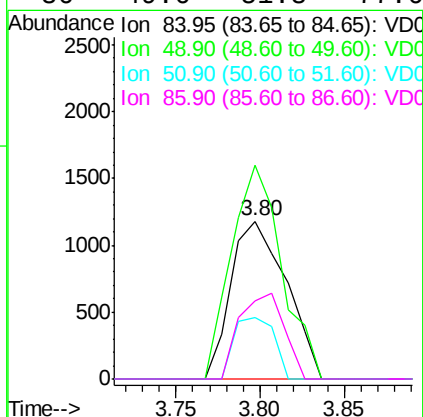
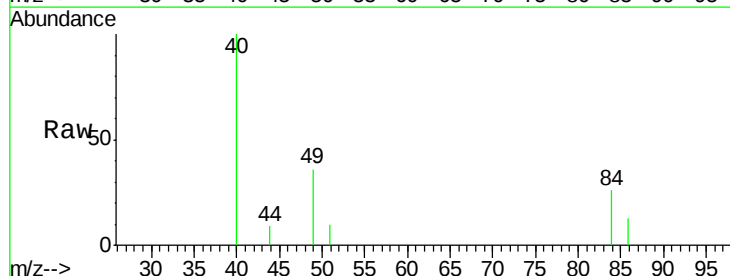
Instrument :
MSVOA_D
ClientSampleId :
BFB

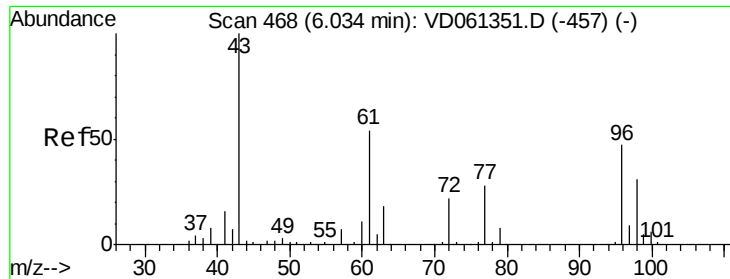
Tot Ion: 43 Resp: 529
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#20
Methylene Chloride
Concen: 9.352 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.00 min
Lab File: VD061371.D
Acq: 28 Mar 2019 1:47

Tgt Ion: 84 Resp: 2696
Ion Ratio Lower Upper
84 100
49 135.3 91.8 137.8
51 38.6 29.8 44.8
86 49.6 51.8 77.6#





#25

2-Butanone

Concen: 12.060 ug/l

RT: 6.05 min Scan# 470

Delta R.T. 0.02 min

Lab File: VD061371.D

Acq: 28 Mar 2019 1:47

Instrument :

MSVOA_D

ClientSampleId :

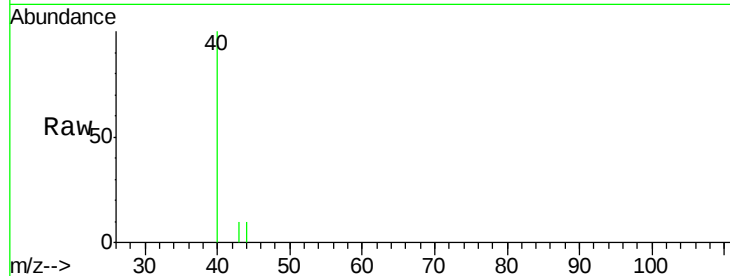
BFB

Tot Ion: 43 Resp: 669

Ion Ratio Lower Upper

43 100

72 0.0 17.2 25.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.05

400

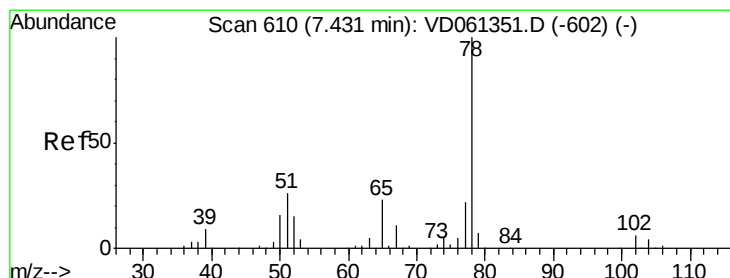
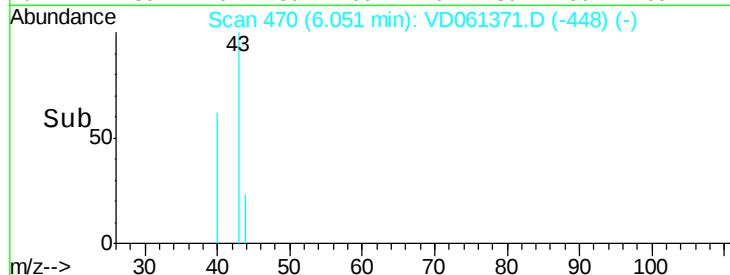
300

200

100

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.42 min Scan# 609

Delta R.T. -0.01 min

Lab File: VD061371.D

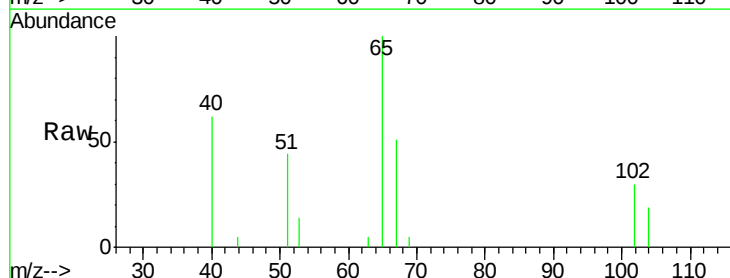
Acq: 28 Mar 2019 1:47

Tgt Ion: 65 Resp: 18383

Ion Ratio Lower Upper

65 100

67 51.3 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.42

8000

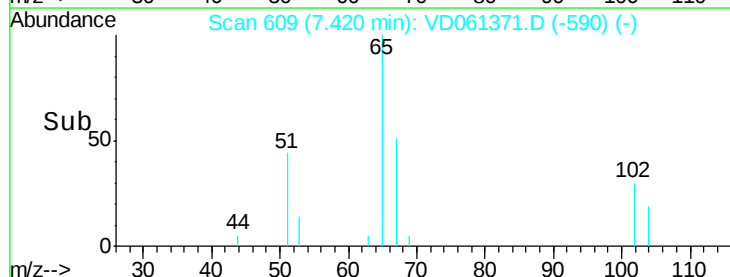
6000

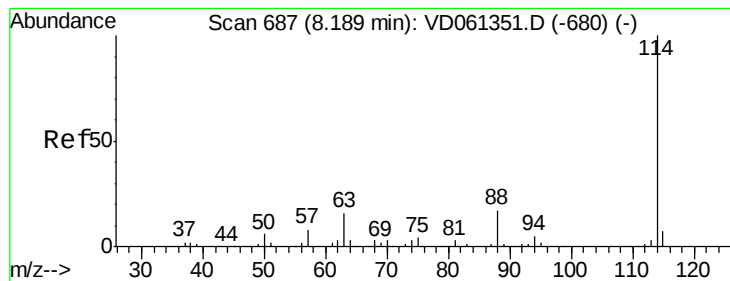
4000

2000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.19 min Scan# 687

Delta R.T. -0.00 min

Lab File: VD061371.D

Acq: 28 Mar 2019 1:47

Instrument :

MSVOA_D

ClientSampled :

BFB

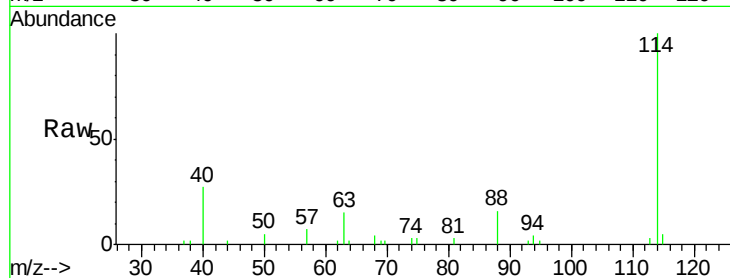
Tot Ion:114 Resp: 47130

Ion Ratio Lower Upper

114 100

63 14.6 0.0 31.6

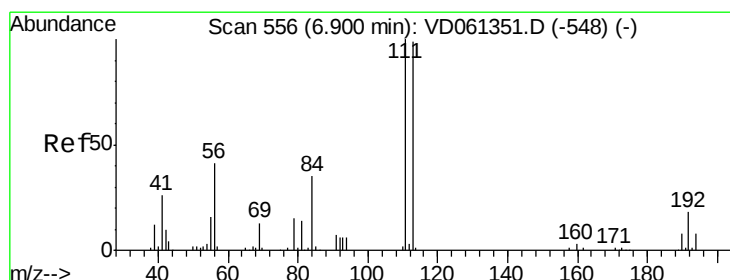
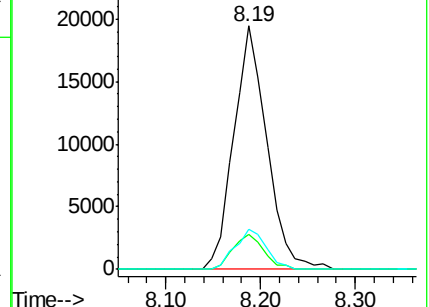
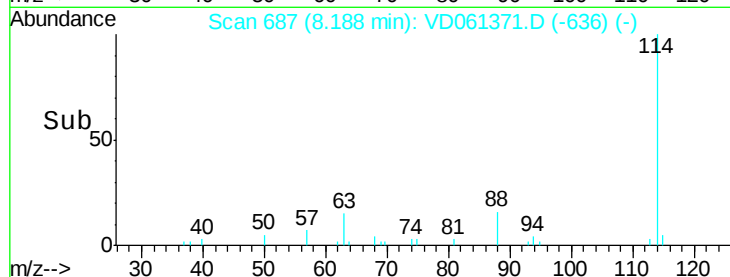
88 16.3 0.0 33.4



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: 6.89 min Scan# 555

Delta R.T. -0.01 min

Lab File: VD061371.D

Acq: 28 Mar 2019 1:47

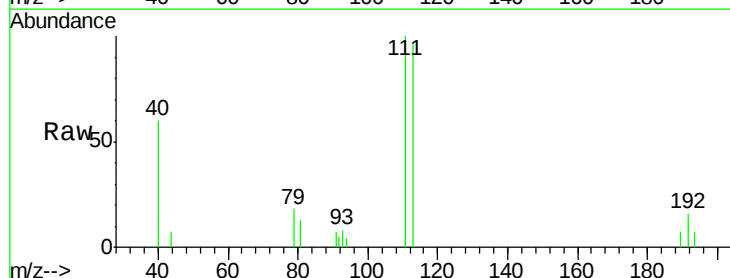
Tgt Ion:113 Resp: 21881

Ion Ratio Lower Upper

113 100

111 102.8 81.0 121.6

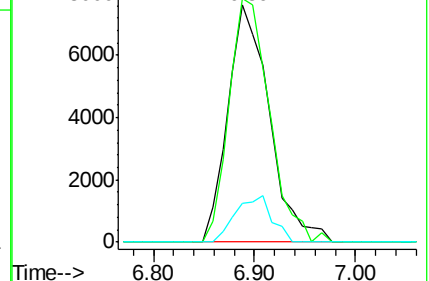
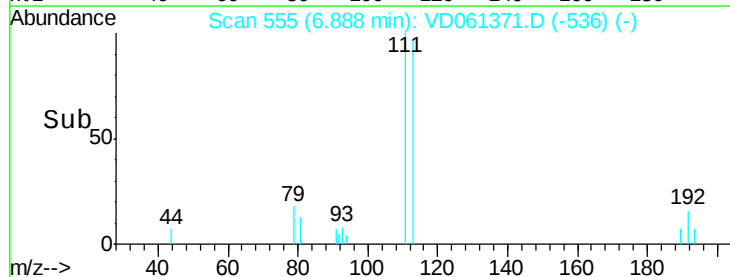
192 16.2 14.4 21.6

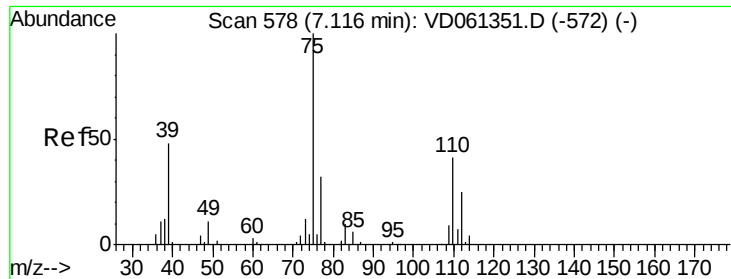


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

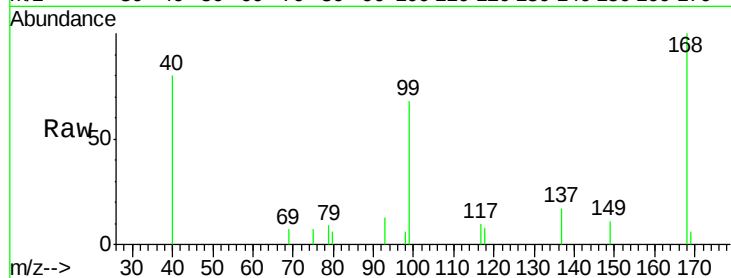




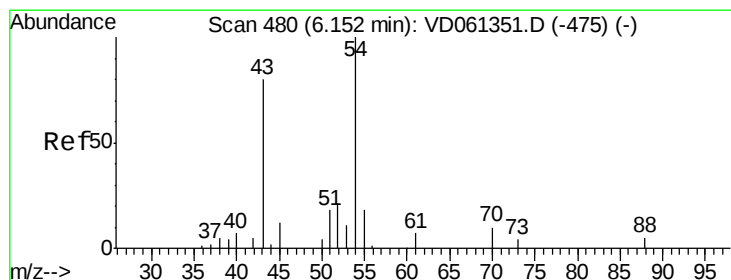
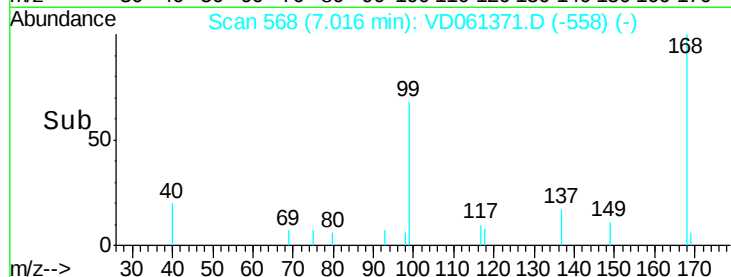
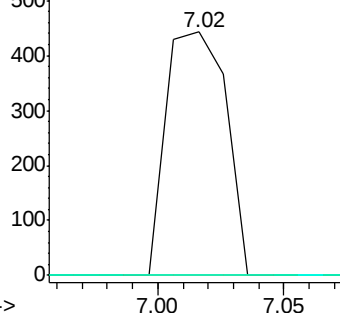
#36
 1,1-Dichloropropene
 Concen: 1.780 ug/l
 RT: 7.02 min Scan# 568
 Delta R.T. -0.10 min
 Lab File: VD061371.D
 Acq: 28 Mar 2019 1:47

Instrument :
 MSVOA_D
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Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	20.4	61.3#
77	0.0	24.9	37.3#

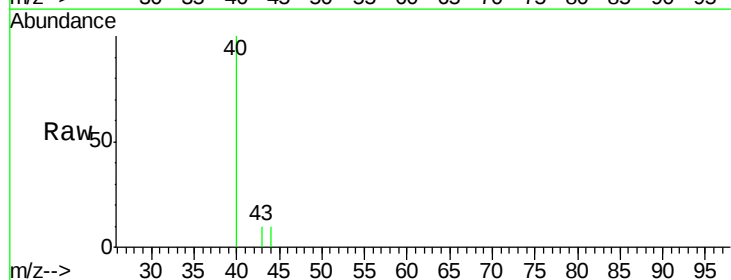


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

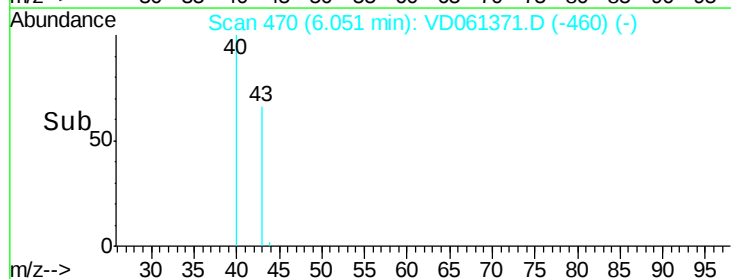
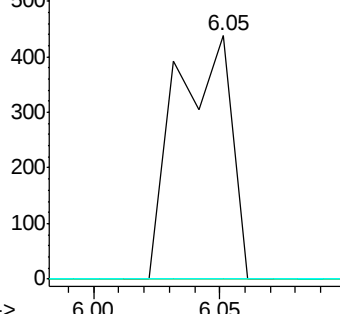


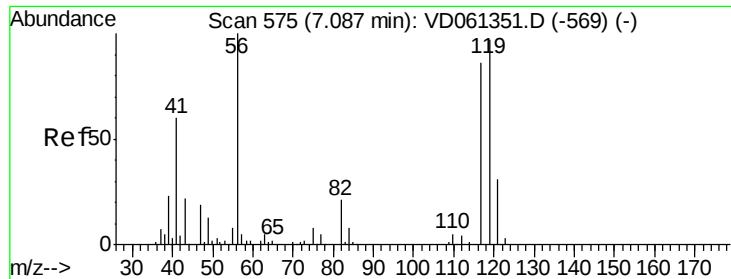
#37
 Ethyl Acetate
 Concen: 3.803 ug/l
 RT: 6.05 min Scan# 470
 Delta R.T. -0.10 min
 Lab File: VD061371.D
 Acq: 28 Mar 2019 1:47

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	13.8	20.8#
70	0.0	7.8	11.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 70.00 (69.70 to 70.70): VDC

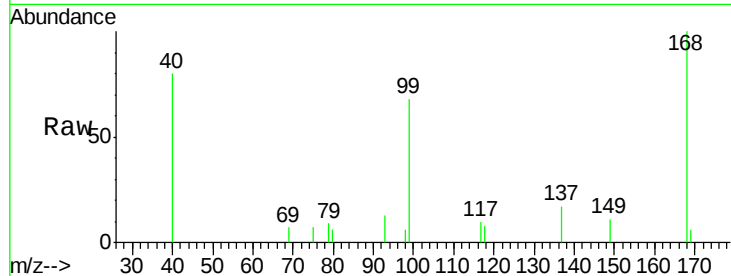




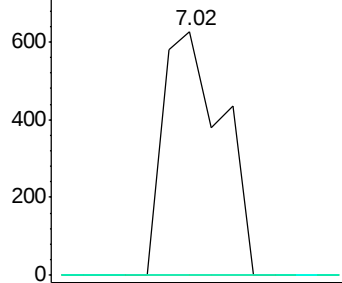
#38
Carbon Tetrachloride
Concen: 2.547 ug/l
RT: 7.02 min Scan# 568
Delta R.T. -0.07 min
Lab File: VD061371.D
Acq: 28 Mar 2019 1:47

Instrument :
MSVOA_D
ClientSampleId :
BFB

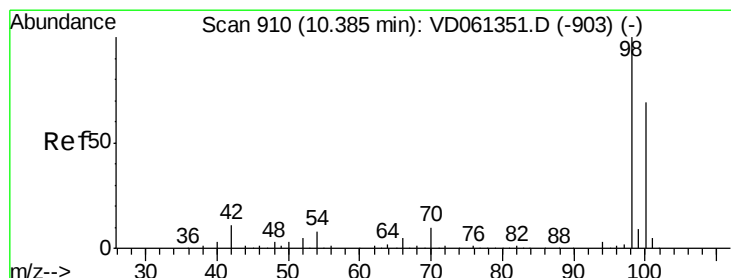
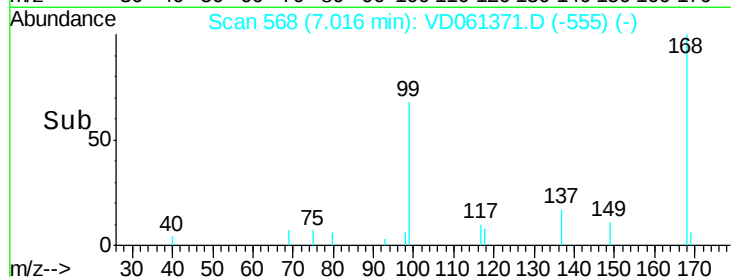
Tot Ion:117 Resp: 1193
Ion Ratio Lower Upper
117 100
119 0.0 80.1 120.1#
121 0.0 25.6 38.4#



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

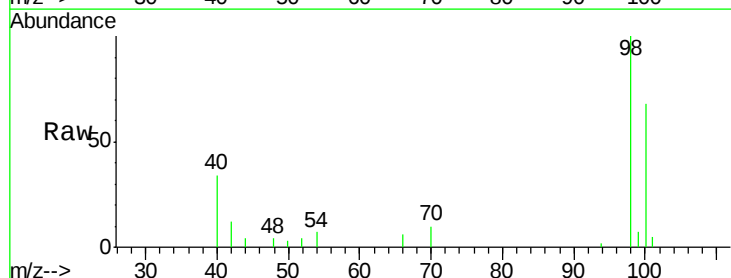


Time-->

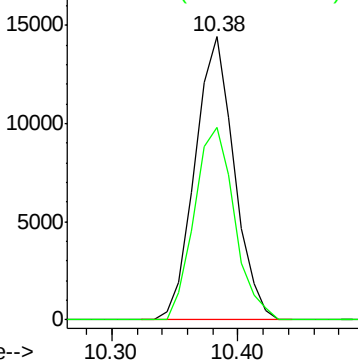


#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.38 min Scan# 910
Delta R.T. -0.00 min
Lab File: VD061371.D
Acq: 28 Mar 2019 1:47

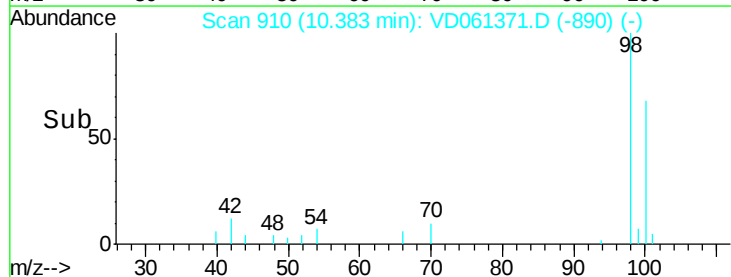
Tgt Ion: 98 Resp: 31071
Ion Ratio Lower Upper
98 100
100 68.2 56.2 84.2

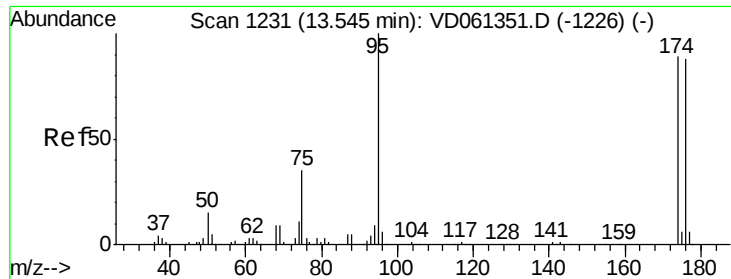


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC



Time-->





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.53 min Scan# 1230

Delta R.T. -0.01 min

Lab File: VD061371.D

Acq: 28 Mar 2019 1:47

Instrument :

MSVOA_D

ClientSampleId :

BFB

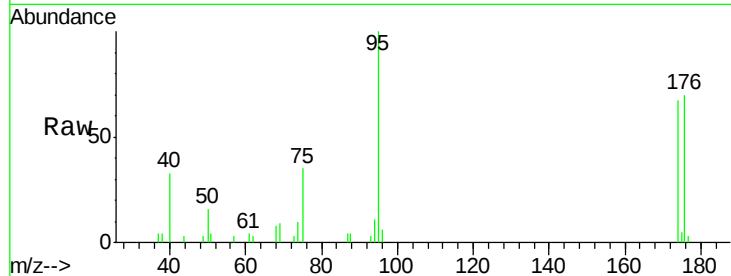
Tot Ion: 95 Resp: 17037

Ion Ratio Lower Upper

95 100

174 67.2 0.0 178.0

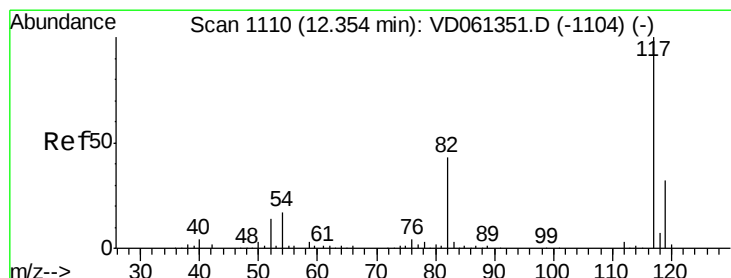
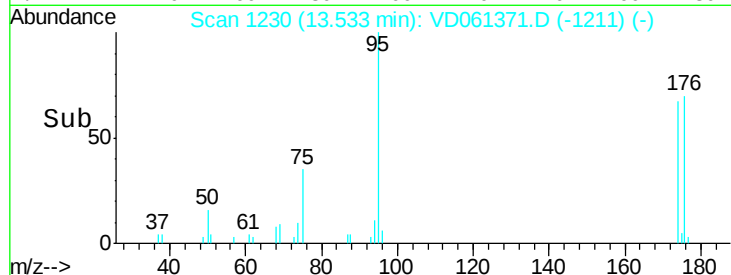
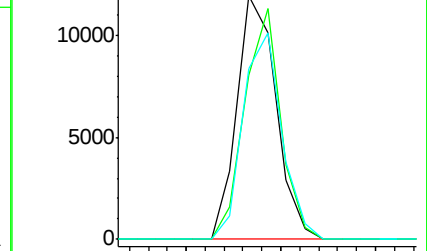
176 70.1 0.0 175.0



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.34 min Scan# 1109

Delta R.T. -0.01 min

Lab File: VD061371.D

Acq: 28 Mar 2019 1:47

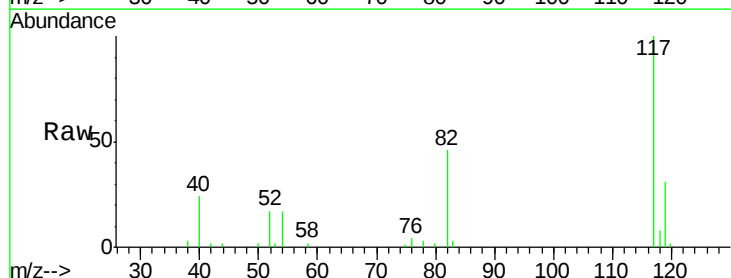
Tgt Ion: 117 Resp: 39716

Ion Ratio Lower Upper

117 100

82 45.9 34.4 51.6

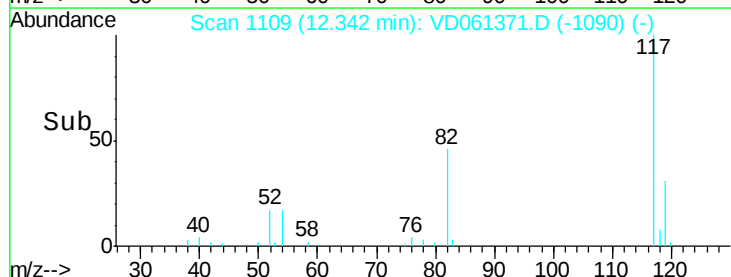
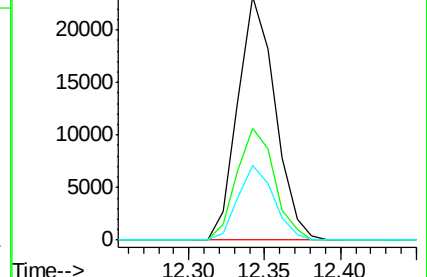
119 30.9 25.8 38.6

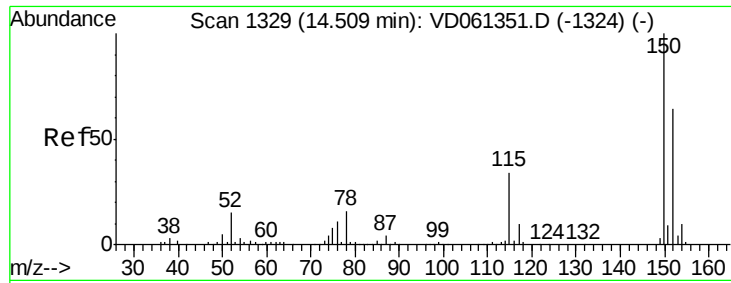


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.51 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VD061371.D

Acq: 28 Mar 2019 1:47

Instrument :

MSVOA_D

ClientSampleId :

BFB

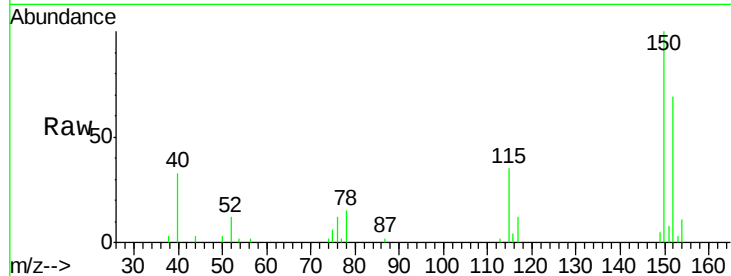
Tot Ion:152 Resp: 17013

Ion Ratio Lower Upper

152 100

115 56.0 26.9 80.6

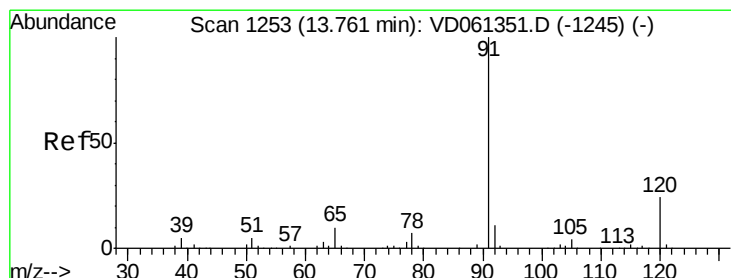
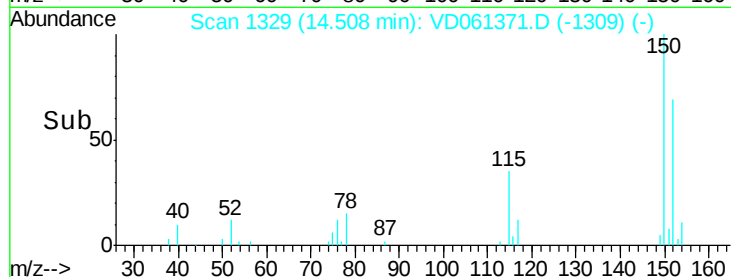
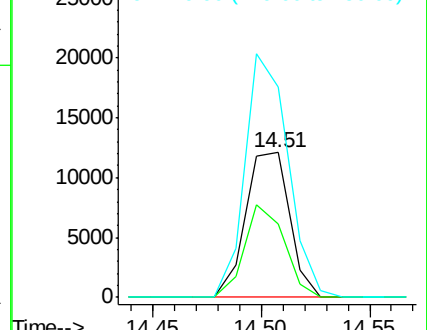
150 146.0 0.0 318.0



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



#78

n-propylbenzene

Concen: 1.036 ug/l

RT: 13.75 min Scan# 1252

Delta R.T. -0.01 min

Lab File: VD061371.D

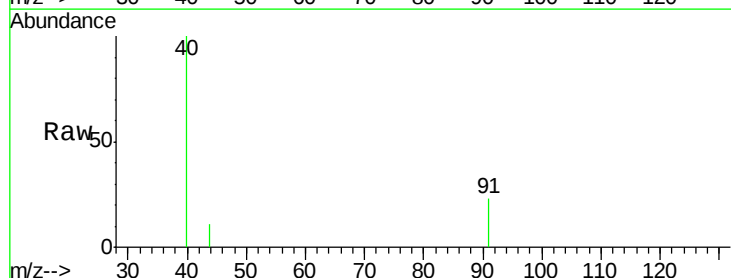
Acq: 28 Mar 2019 1:47

Tgt Ion: 91 Resp: 1501

Ion Ratio Lower Upper

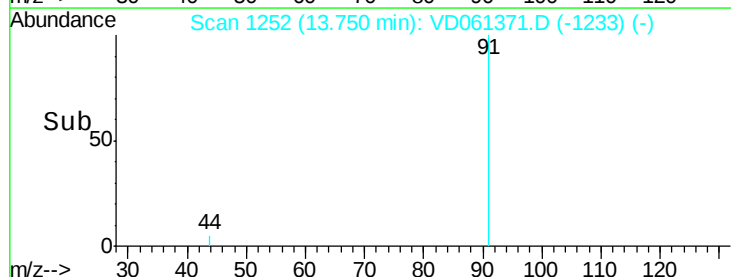
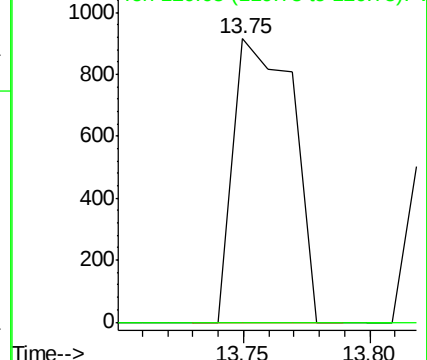
91 100

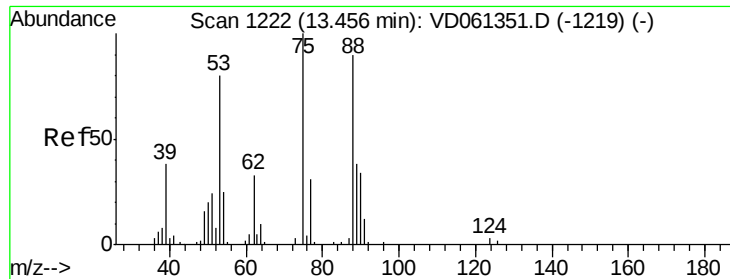
120 0.0 11.8 35.3#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

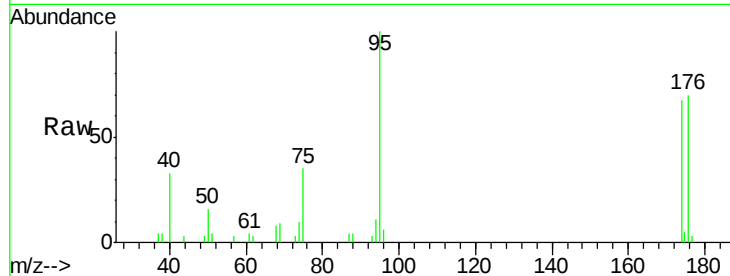




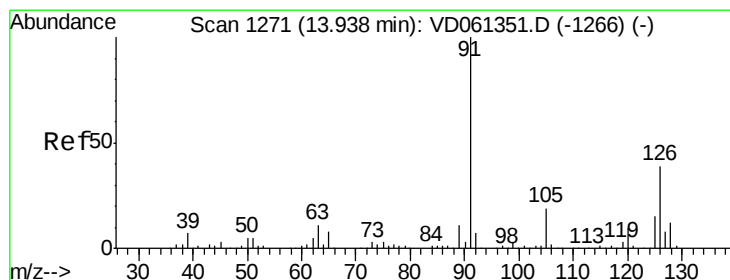
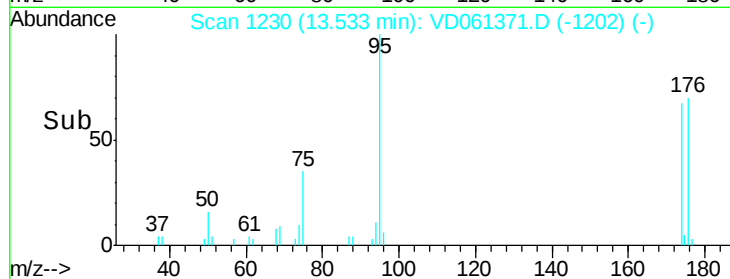
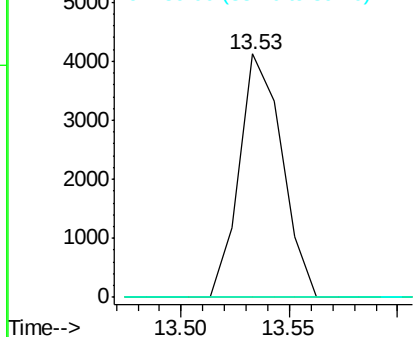
#81
trans-1,4-Dichloro-2-butene
Concen: 75.989 ug/l
RT: 13.53 min Scan# 1230
Delta R.T. 0.08 min
Lab File: VD061371.D
Acq: 28 Mar 2019 1:47

Instrument :
MSVOA_D
ClientSampled :
BFB

Tot Ion: 75 Resp: 5694
Ion Ratio Lower Upper
75 100
53 0.0 63.8 95.8#
89 0.0 30.5 45.7#

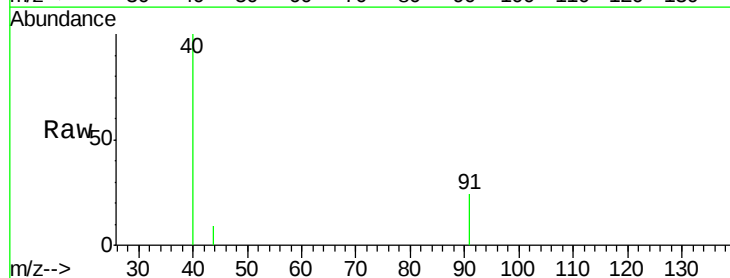


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

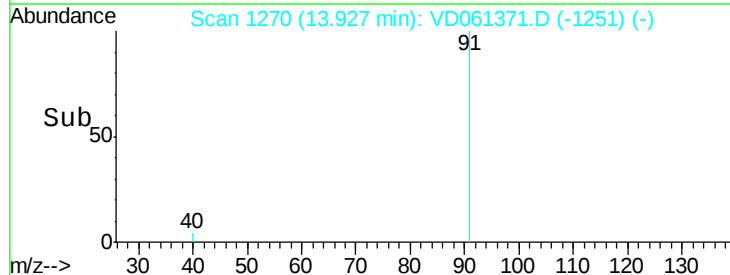
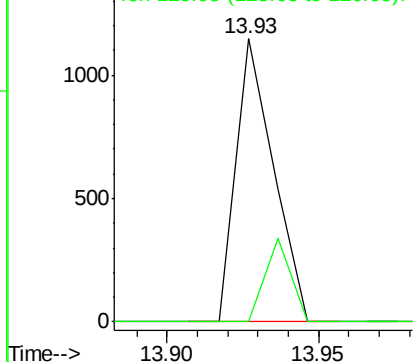


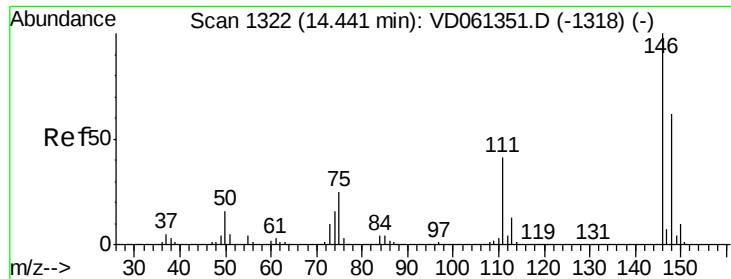
#82
4-Chlorotoluene
Concen: 1.161 ug/l
RT: 13.93 min Scan# 1270
Delta R.T. -0.01 min
Lab File: VD061371.D
Acq: 28 Mar 2019 1:47

Tgt Ion: 91 Resp: 993
Ion Ratio Lower Upper
91 100
126 0.0 19.6 58.8#



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

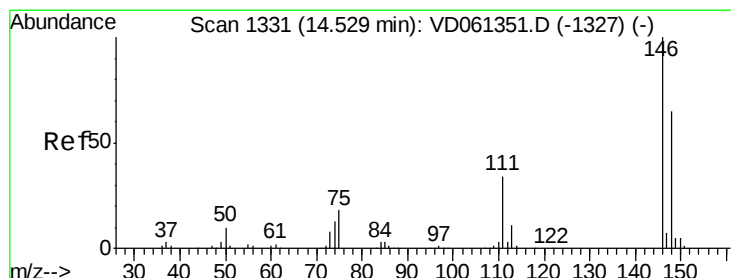
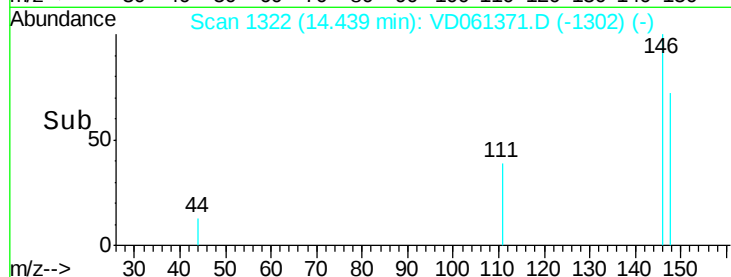
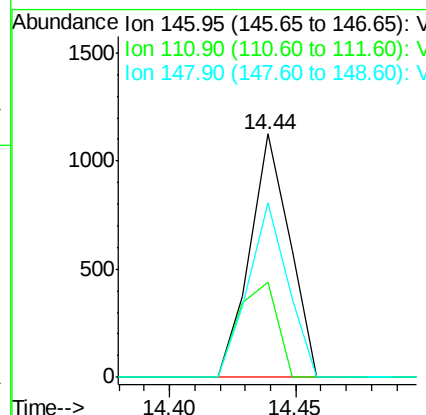
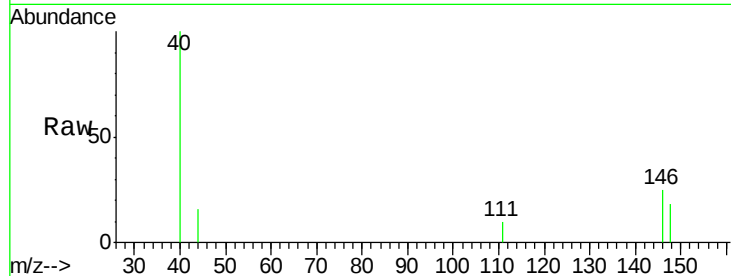




#87
 1,3-Dichlorobenzene
 Concen: 2.081 ug/l
 RT: 14.44 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VD061371.D
 Acq: 28 Mar 2019 1:47

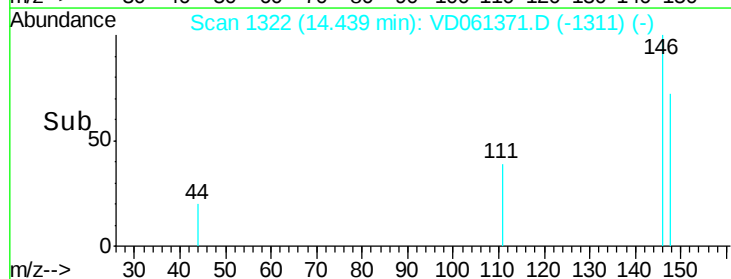
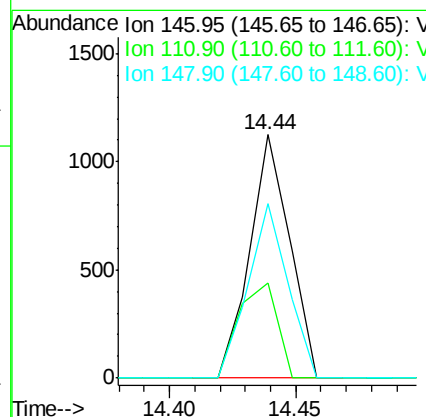
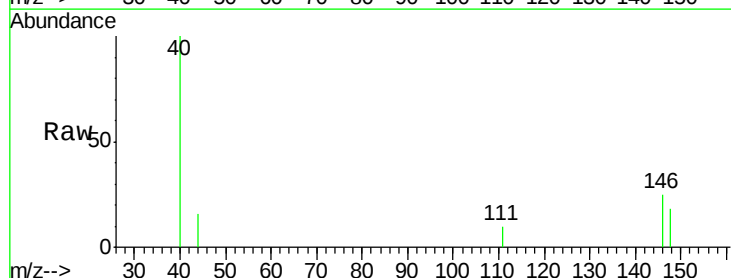
Instrument :
 MSVOA_D
 ClientSampled :
 BFB

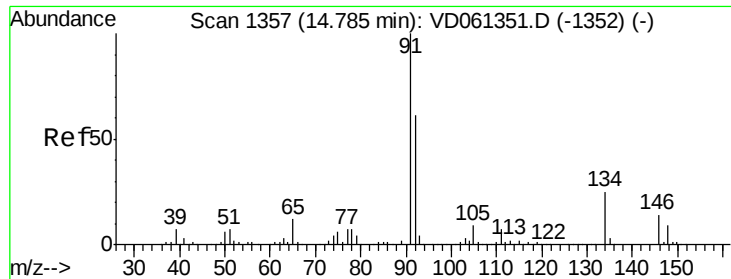
Tot Ion:146	Resp: 1237
Ion Ratio	Lower Upper
146 100	
111 38.9	20.6 61.9
148 71.8	31.1 93.3



#88
 1,4-Dichlorobenzene
 Concen: 2.134 ug/l
 RT: 14.44 min Scan# 1322
 Delta R.T. -0.09 min
 Lab File: VD061371.D
 Acq: 28 Mar 2019 1:47

Tgt Ion	146	Resp: Lower	1237 Upper
146	100		
111	38.9	16.8	50.4
148	71.8	32.6	98.0





#89

n-Butylbenzene

Concen: 1.286 ug/l

RT: 14.78 min Scan# 1357

Delta R.T. -0.00 min

Lab File: VD061371.D

Acq: 28 Mar 2019 1:47

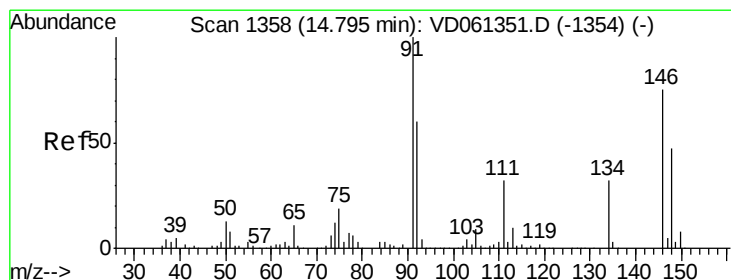
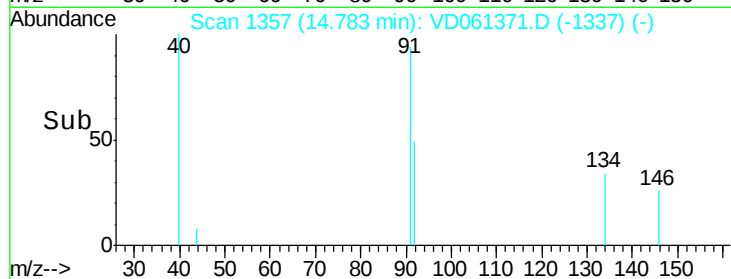
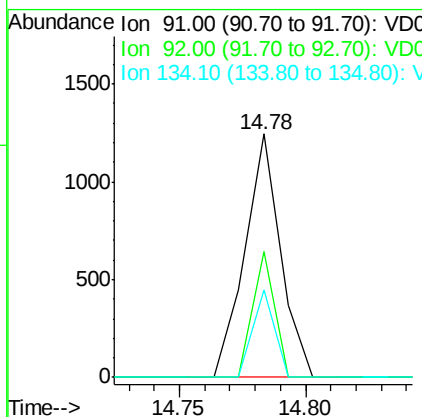
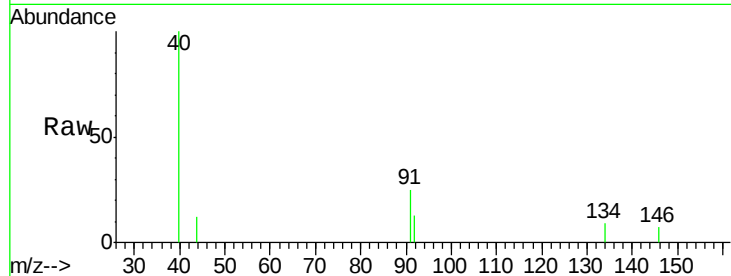
Instrument :

MSVOA_D

ClientSampleId :

BFB

Tot Ion:	91	Resp:	1217
Ion	Ratio	Lower	Upper
91	100		
92	52.0	30.3	91.0
134	36.1	12.4	37.0



#91

1,2-Dichlorobenzene

Concen: 1.959 ug/l

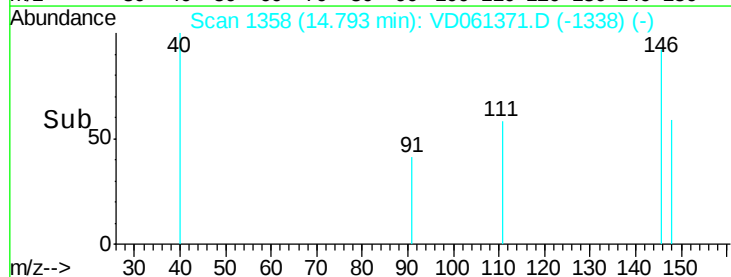
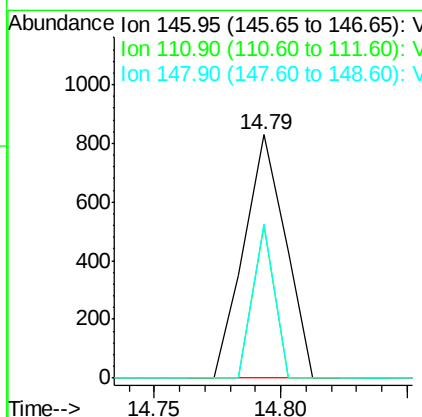
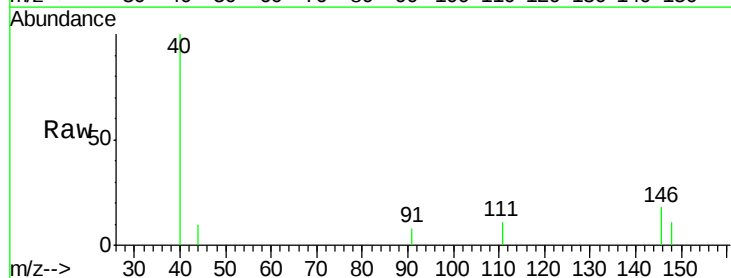
RT: 14.79 min Scan# 1358

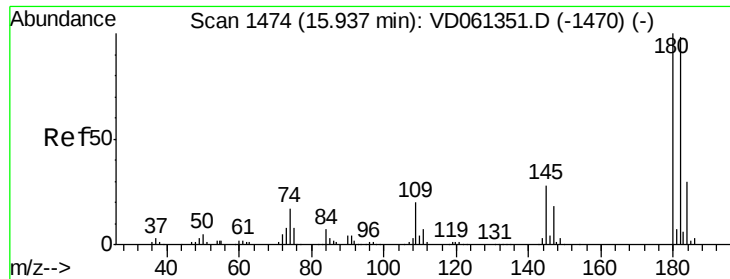
Delta R.T. -0.00 min

Lab File: VD061371.D

Acq: 28 Mar 2019 1:47

Tgt Ion:	146	Resp:	955
Ion	Ratio	Lower	Upper
146	100		
111	62.5	21.2	63.6
148	63.4	31.6	95.0

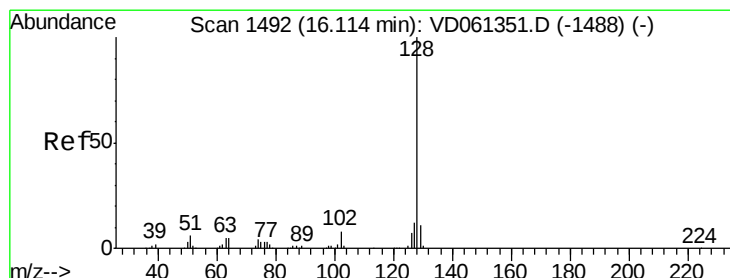
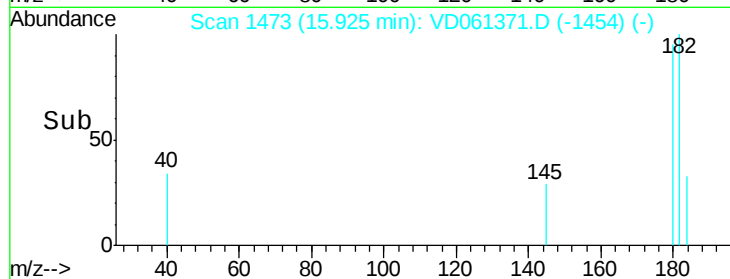
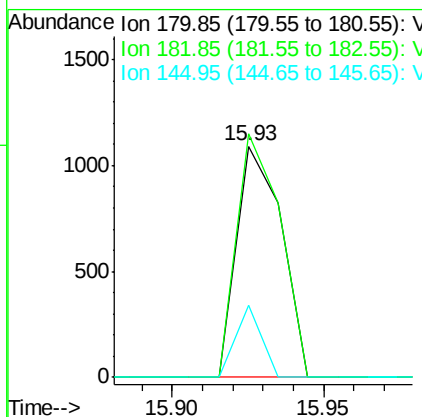
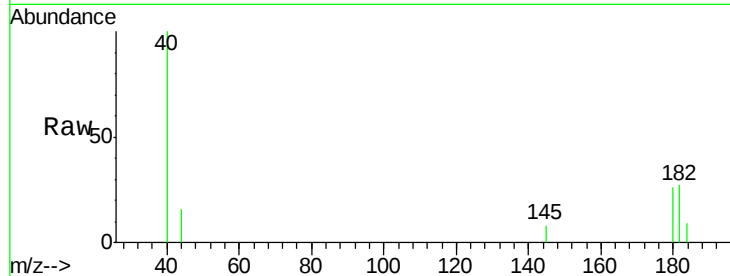




#93
 1,2,4-Trichlorobenzene
 Concen: 5.088 ug/l
 RT: 15.93 min Scan# 1473
 Delta R.T. -0.01 min
 Lab File: VD061371.D
 Acq: 28 Mar 2019 1:47

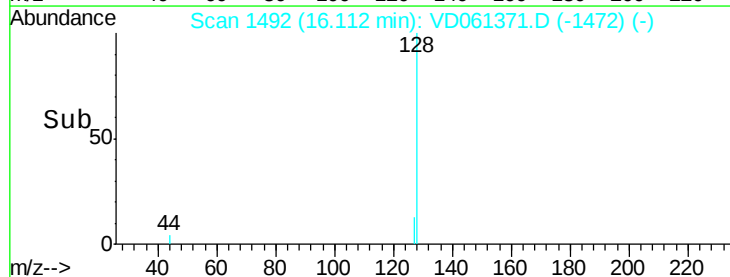
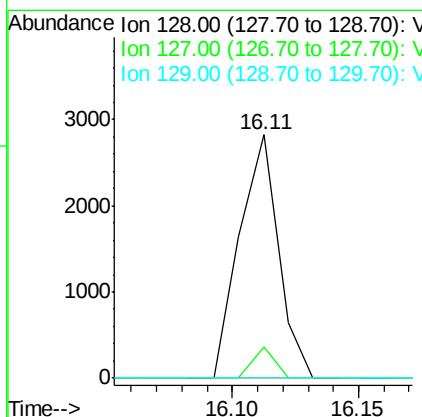
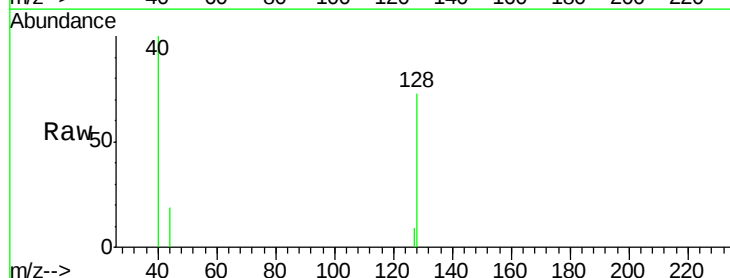
Instrument :
 MSVOA_D
 ClientSampleId :
 BFB

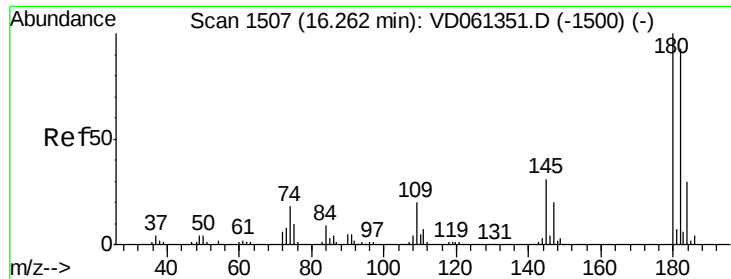
Tot Ion:180 Resp: 1130
 Ion Ratio Lower Upper
 180 100
 182 105.4 48.9 146.8
 145 31.0 14.1 42.3



#95
 Naphthalene
 Concen: 8.917 ug/l
 RT: 16.11 min Scan# 1492
 Delta R.T. -0.00 min
 Lab File: VD061371.D
 Acq: 28 Mar 2019 1:47

Tgt Ion:128 Resp: 3019
 Ion Ratio Lower Upper
 128 100
 127 12.8 9.9 14.9
 129 0.0 8.9 13.3#

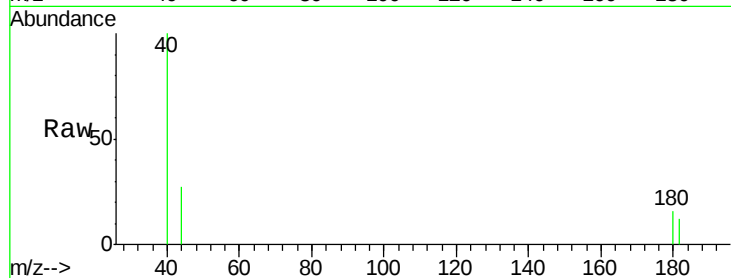




#96
 1,2,3-Trichlorobenzene
 Concen: 6.732 ug/l
 RT: 16.25 min Scan# 1506
 Delta R.T. -0.01 min
 Lab File: VD061371.D
 Acq: 28 Mar 2019 1:47

Instrument :
 MSVOA_D
 ClientSampleId :
 BFB

Tot Ion:180 Resp: 658
 Ion Ratio Lower Upper
 180 100
 182 78.8 46.4 139.1
 145 0.0 15.3 45.9#



Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

