

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD032719\
 Data File : VD061362.D
 Acq On : 27 Mar 2019 19:19
 Operator : VA/AP
 Sample : K2086-05
 Misc : 10.03g/5ml/MSVOA_D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CS-15

Quant Time: Mar 28 04:37:25 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	7.03	168	24023	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.19	114	45169	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	41400	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	17100	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	12242	59.65	ug/l	0.00
Spiked Amount			Recovery	=	119.30%	
35) Dibromofluoromethane	6.91	113	15211	44.07	ug/l	0.00
Spiked Amount			Recovery	=	88.14%	
50) Toluene-d8	10.38	98	30079	36.33	ug/l	0.00
Spiked Amount			Recovery	=	72.66%	
62) 4-Bromofluorobenzene	13.54	95	12472	39.29	ug/l	0.00
Spiked Amount			Recovery	=	78.58%	

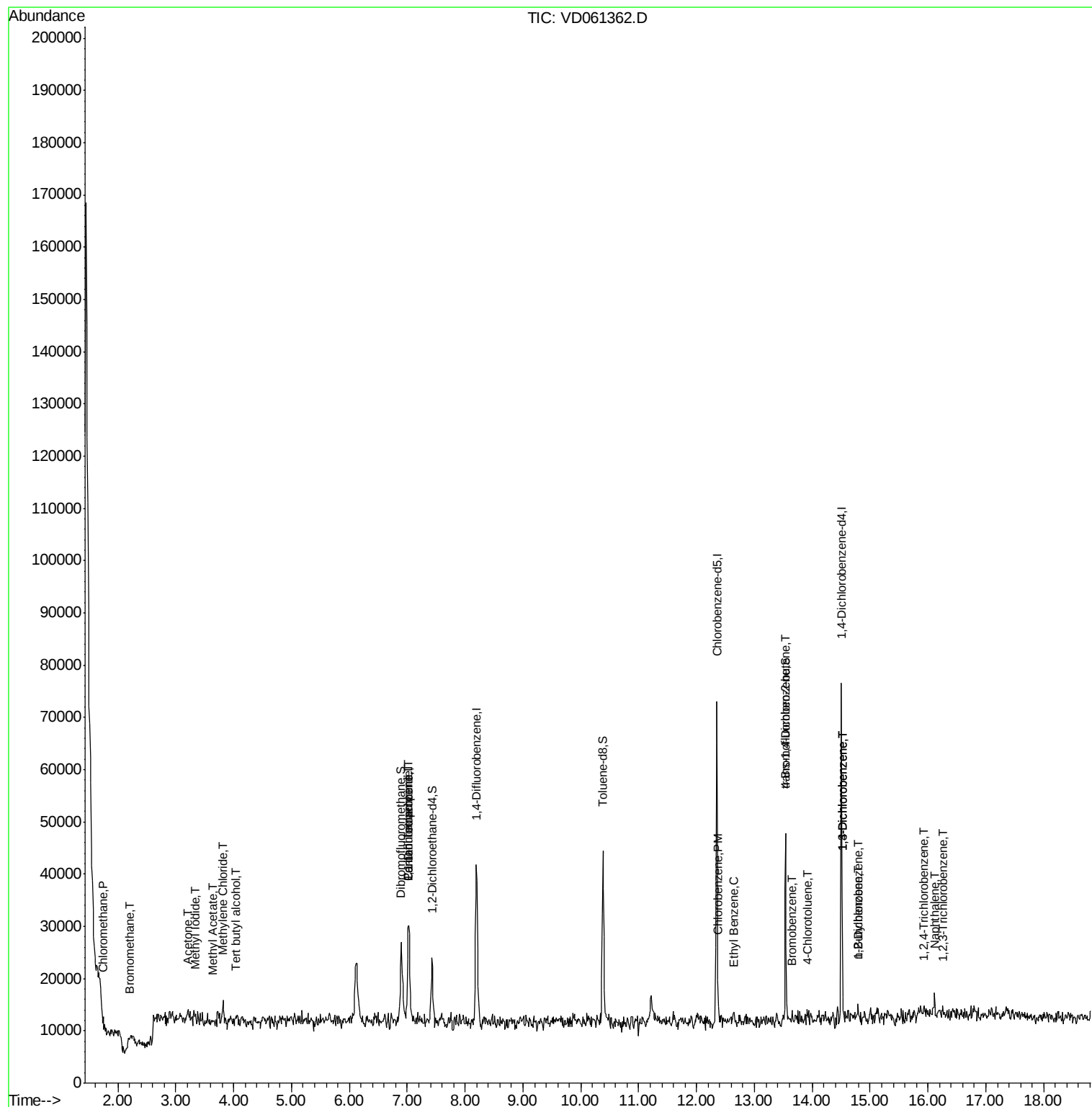
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.76	50	604	2.887	ug/l #	42
5) Bromomethane	2.20	94	1751	45.963	ug/l #	69
10) Methyl Iodide	3.33	142	6868	17.465	ug/l #	90
11) Tert butyl alcohol	4.04	59	224	17.527	ug/l #	76
16) Acetone	3.22	43	4418	83.748	ug/l	91
18) Methyl Acetate	3.63	43	617	5.563	ug/l #	55
20) Methylene Chloride	3.81	84	2458	6.653	ug/l #	85
36) 1,1-Dichloropropene	7.03	75	1491	3.782	ug/l #	38
38) Carbon Tetrachloride	7.01	117	1229	2.738	ug/l #	10
65) Chlorobenzene	12.38	112	974	1.151	ug/l #	41
67) Ethyl Benzene	12.65	91	1441	1.116	ug/l	90
77) Bromobenzene	13.65	156	521	1.477	ug/l	83
81) trans-1,4-Dichloro-2-buten	13.54	75	4852	64.423	ug/l #	18
82) 4-Chlorotoluene	13.92	91	1057	1.229	ug/l #	36
87) 1,3-Dichlorobenzene	14.52	146	1739	2.911	ug/l	82
88) 1,4-Dichlorobenzene	14.52	146	1739	2.985	ug/l	84
89) n-Butylbenzene	14.78	91	1214	1.276	ug/l #	68
91) 1,2-Dichlorobenzene	14.79	146	877	1.790	ug/l	93
93) 1,2,4-Trichlorobenzene	15.93	180	726	3.252	ug/l #	80
95) Naphthalene	16.11	128	2402	7.059	ug/l #	81
96) 1,2,3-Trichlorobenzene	16.26	180	271	2.759	ug/l #	75

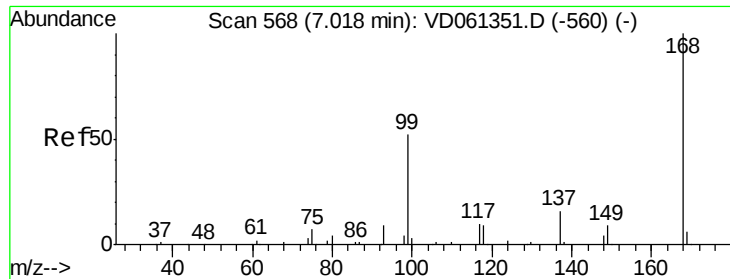
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Mar 28 02:13:53 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.02 min

Lab File: VD061362.D

Acq: 27 Mar 2019 19:19

Instrument :

MSVOA_D

ClientSampleId :

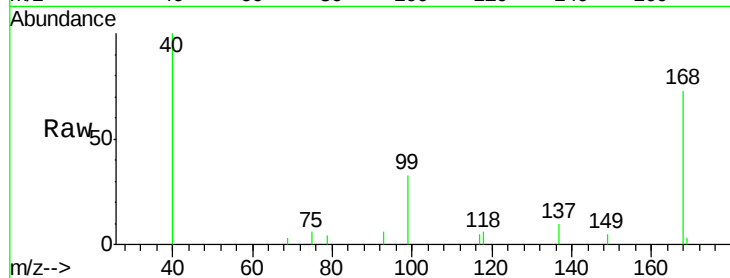
CS-15

Tgt Ion:168 Resp: 24023

Ion Ratio Lower Upper

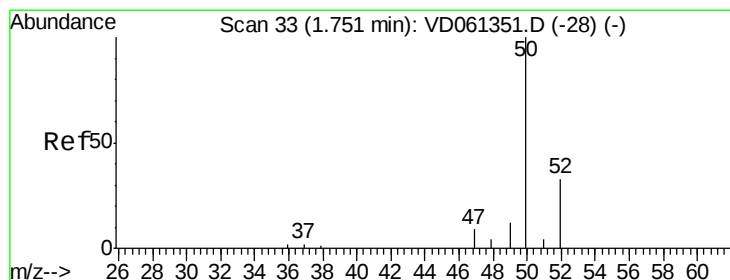
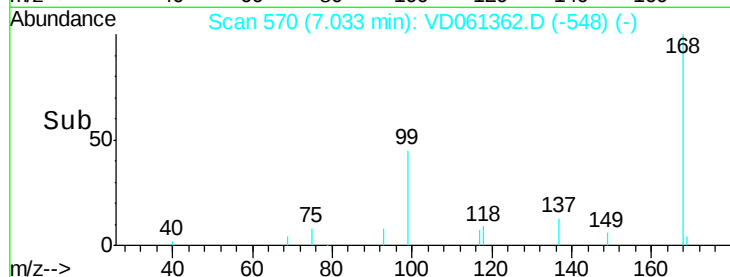
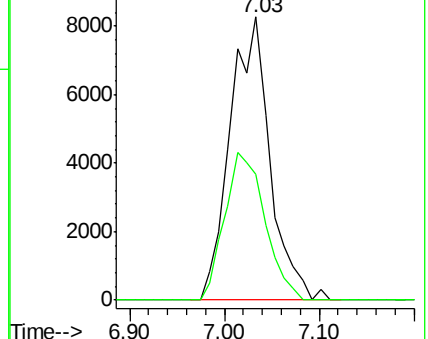
168 100

99 44.7 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 2.887 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.01 min

Lab File: VD061362.D

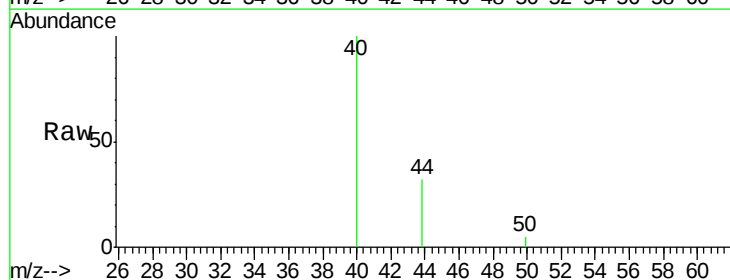
Acq: 27 Mar 2019 19:19

Tgt Ion: 50 Resp: 604

Ion Ratio Lower Upper

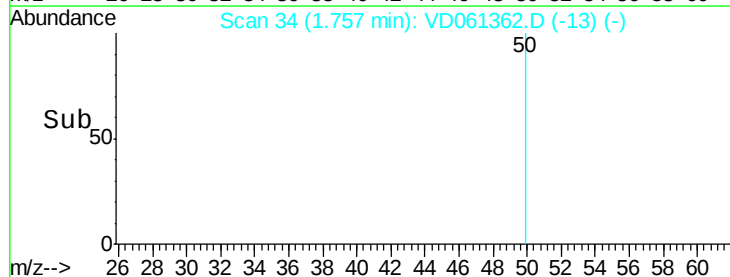
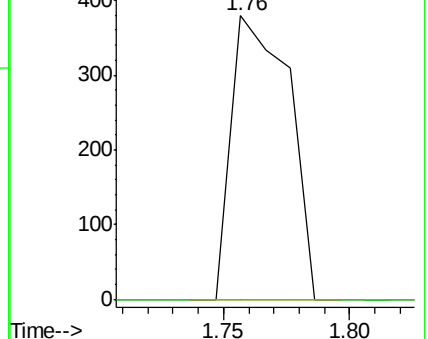
50 100

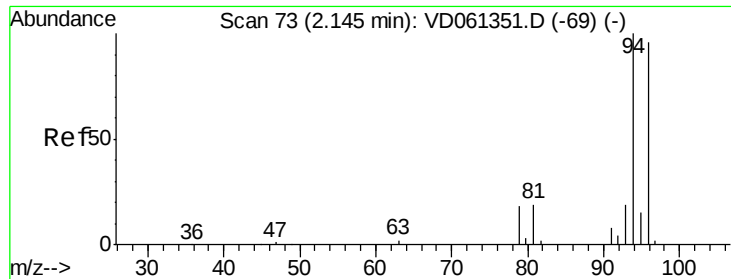
52 0.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

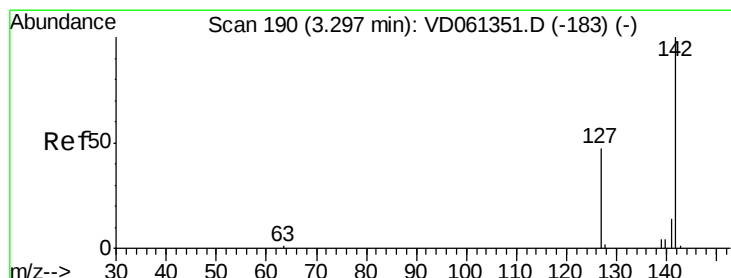
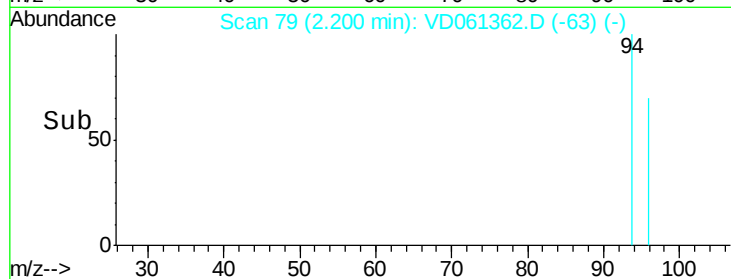
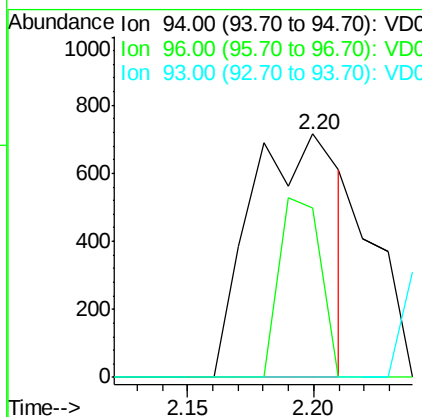
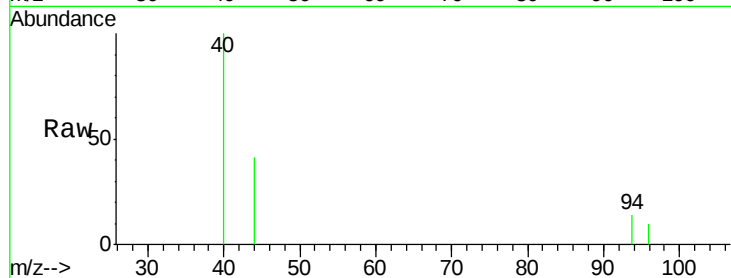




#5
Bromomethane
Concen: 45.963 ug/l
RT: 2.20 min Scan# 79
Delta R.T. 0.05 min
Lab File: VD061362.D
Acq: 27 Mar 2019 19:19

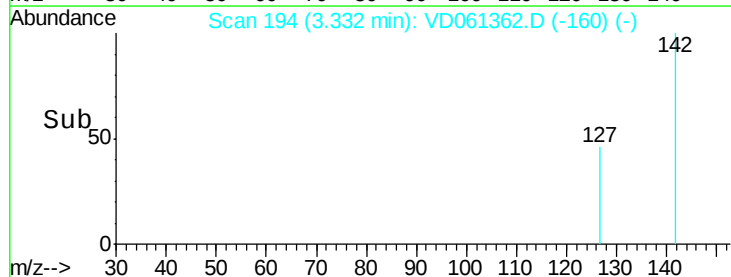
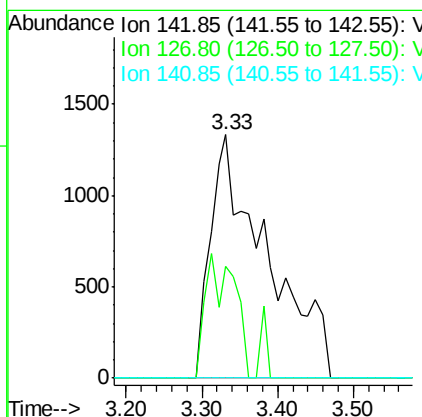
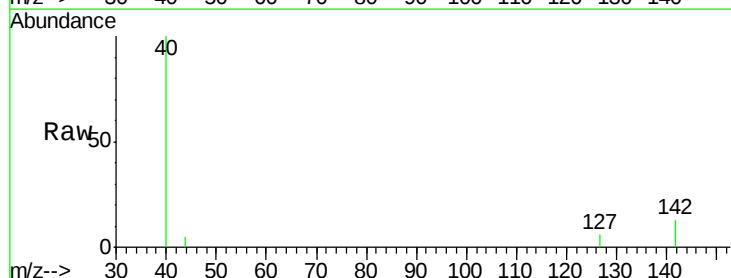
Instrument :
MSVOA_D
ClientSampleId :
CS-15

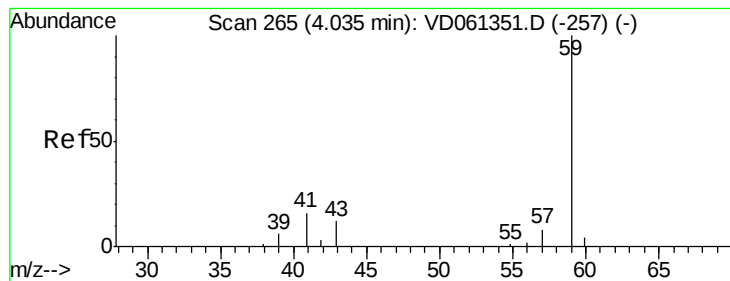
Tgt Ion: 94 Resp: 1751
Ion Ratio Lower Upper
94 100
96 69.8 78.3 117.5#
93 0.0 15.6 23.4#



#10
Methyl Iodide
Concen: 17.465 ug/l
RT: 3.33 min Scan# 194
Delta R.T. 0.04 min
Lab File: VD061362.D
Acq: 27 Mar 2019 19:19

Tgt Ion: 142 Resp: 6868
Ion Ratio Lower Upper
142 100
127 46.0 37.7 56.5
141 0.0 11.5 17.3#



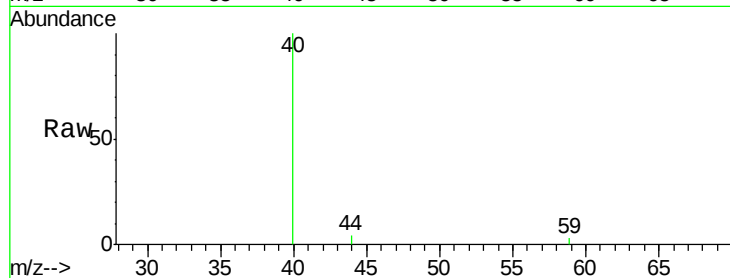


#11

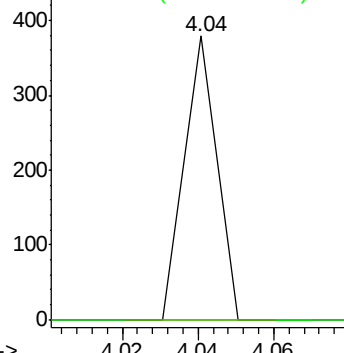
Tert butyl alcohol
 Concen: 17.527 ug/l
 RT: 4.04 min Scan# 266
 Delta R.T. 0.01 min
 Lab File: VD061362.D
 Acq: 27 Mar 2019 19:19

Instrument :
 MSVOA_D
 ClientSampleId :
 CS-15

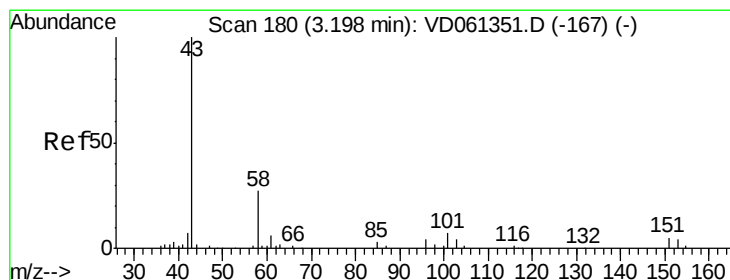
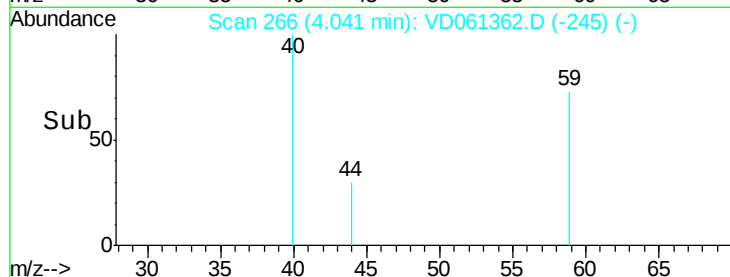
Tgt Ion: 59 Resp: 224
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



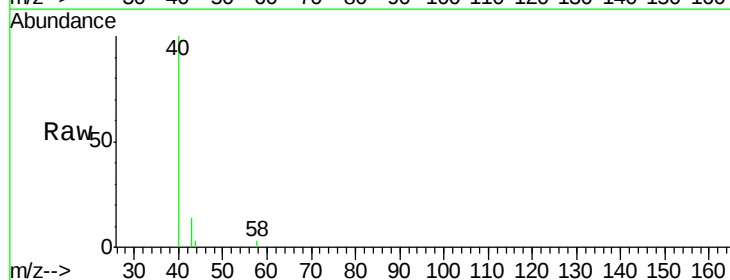
Time-->



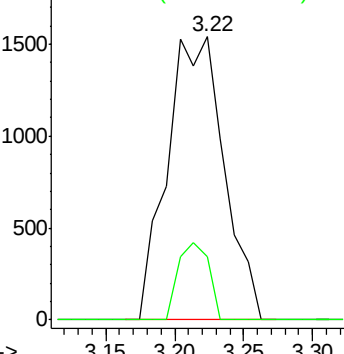
#16

Acetone
 Concen: 83.748 ug/l
 RT: 3.22 min Scan# 183
 Delta R.T. 0.03 min
 Lab File: VD061362.D
 Acq: 27 Mar 2019 19:19

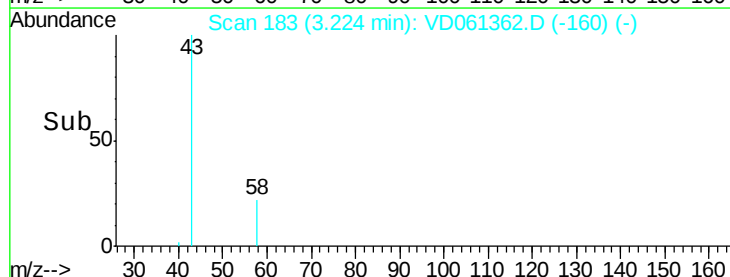
Tgt Ion: 43 Resp: 4418
 Ion Ratio Lower Upper
 43 100
 58 22.3 21.5 32.3

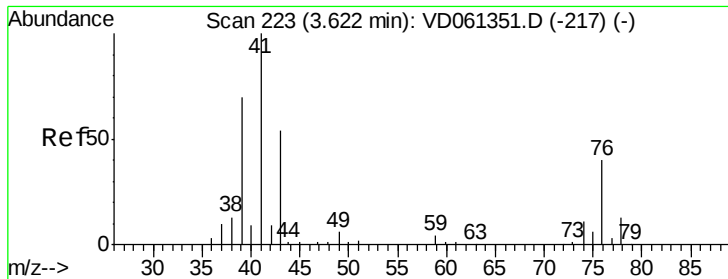


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 57.95 (57.65 to 58.65): VDC



Time-->

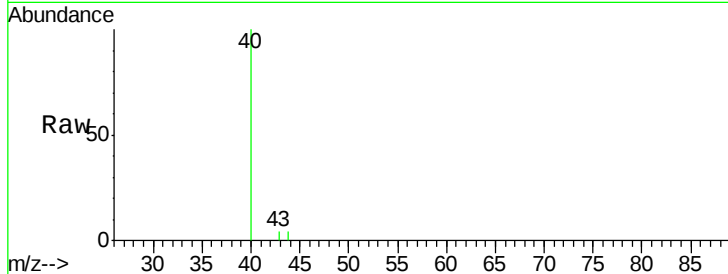




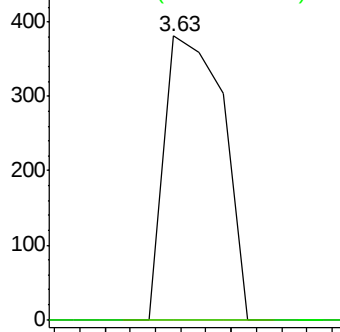
#18
Methyl Acetate
Concen: 5.563 ug/l
RT: 3.63 min Scan# 224
Delta R.T. 0.01 min
Lab File: VD061362.D
Acq: 27 Mar 2019 19:19

Instrument :
MSVOA_D
ClientSampleId :
CS-15

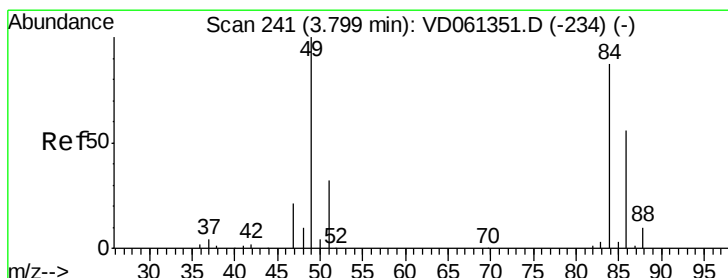
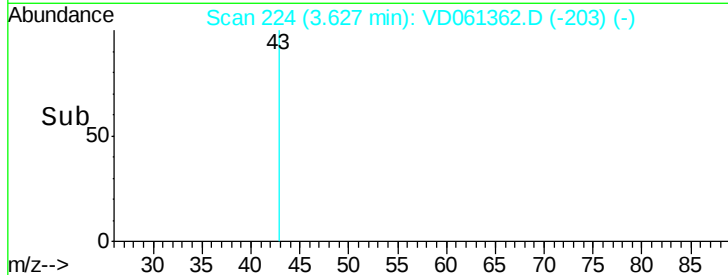
Tgt Ion: 43 Resp: 617
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

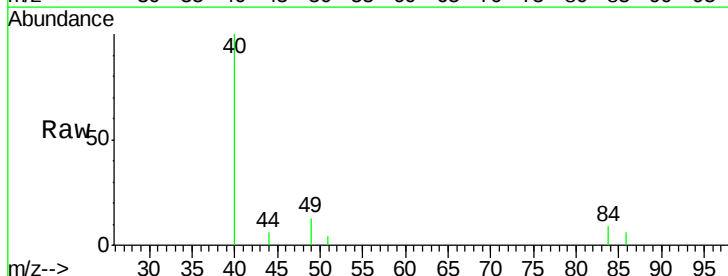


Time-->

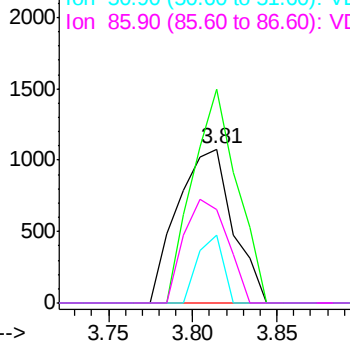


#20
Methylene Chloride
Concen: 6.653 ug/l
RT: 3.81 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD061362.D
Acq: 27 Mar 2019 19:19

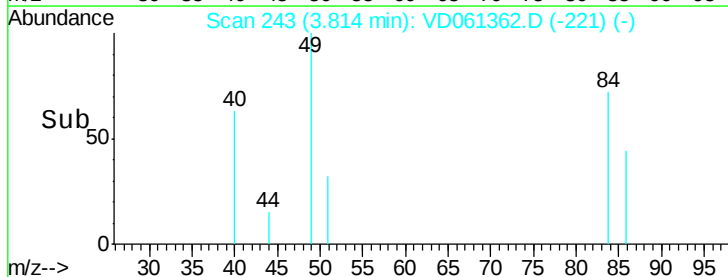
Tgt Ion: 84 Resp: 2458
Ion Ratio Lower Upper
84 100
49 138.8 91.8 137.8#
51 43.9 29.8 44.8
86 60.9 51.8 77.6

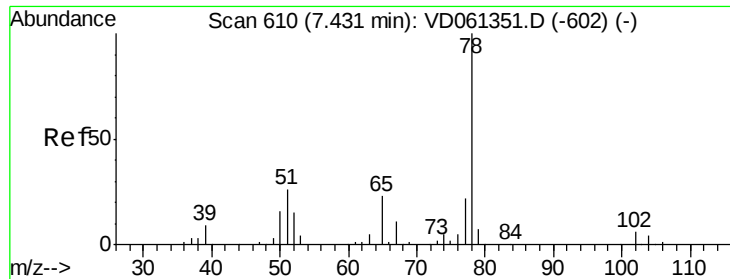


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC



Time-->





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.00 min

Lab File: VD061362.D

Acq: 27 Mar 2019 19:19

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ClientSampleId :

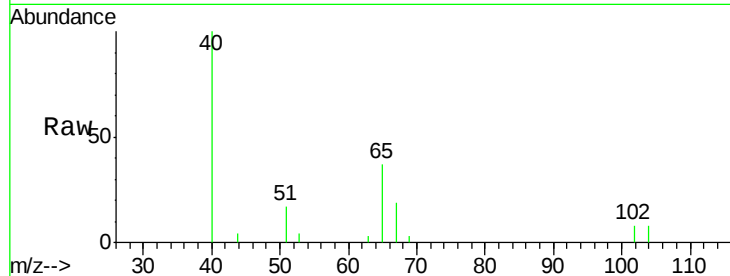
CS-15

Tgt Ion: 65 Resp: 12242

Ion Ratio Lower Upper

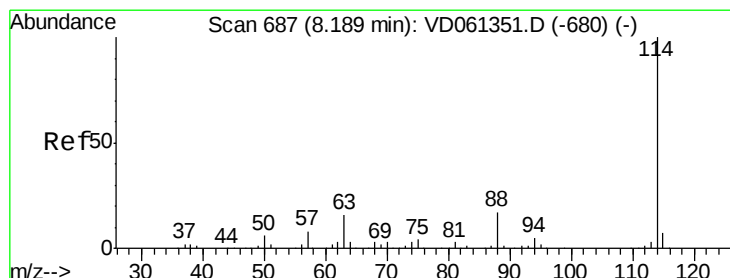
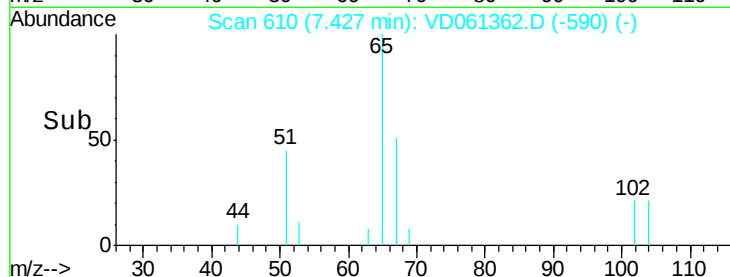
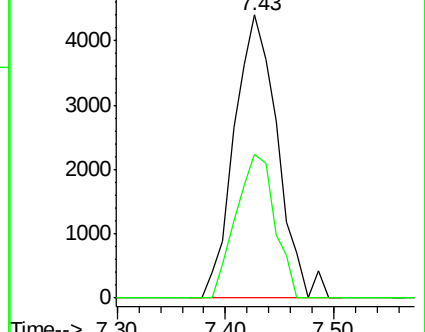
65 100

67 51.0 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.19 min Scan# 688

Delta R.T. 0.01 min

Lab File: VD061362.D

Acq: 27 Mar 2019 19:19

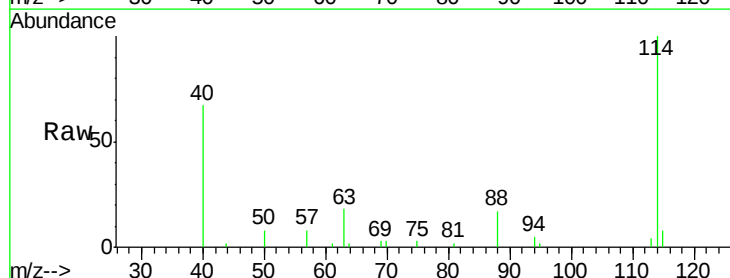
Tgt Ion: 114 Resp: 45169

Ion Ratio Lower Upper

114 100

63 17.6 0.0 31.6

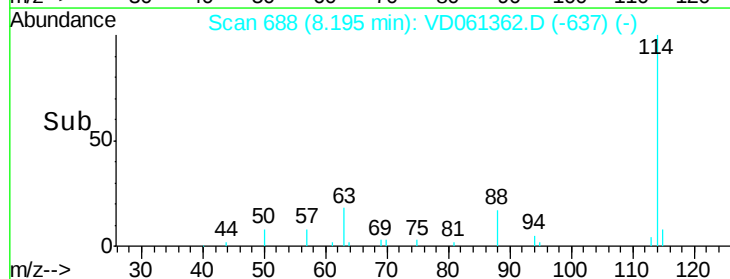
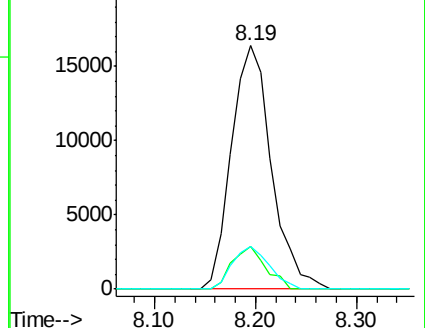
88 17.4 0.0 33.4

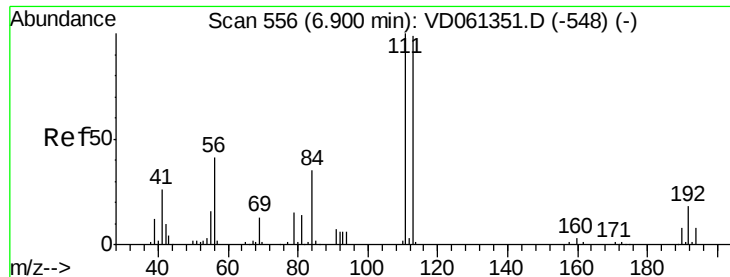


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

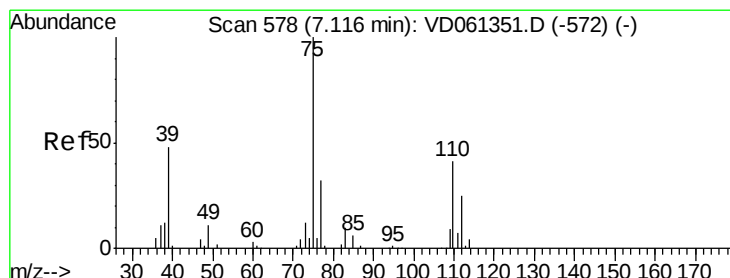
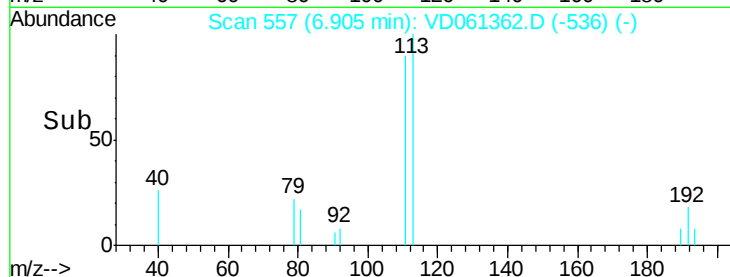
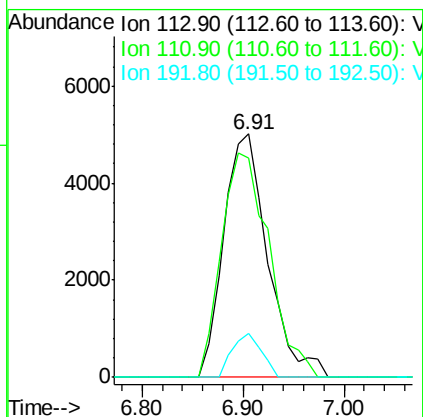
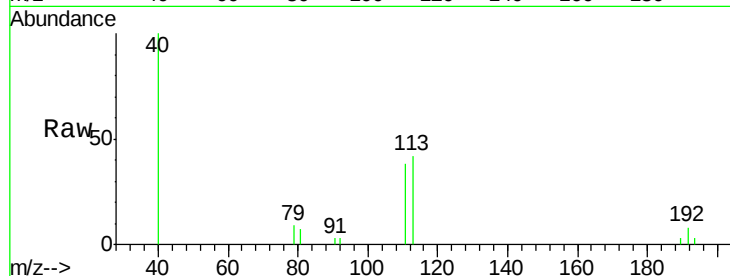




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. 0.01 min
 Lab File: VD061362.D
 Acq: 27 Mar 2019 19:19

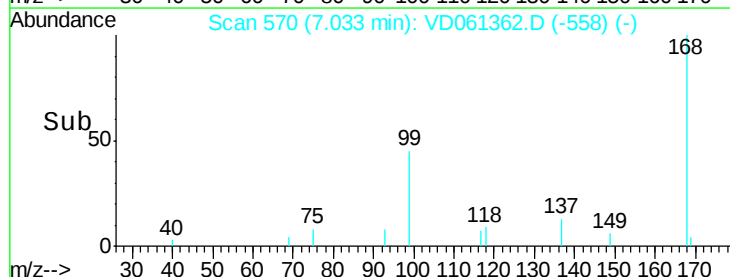
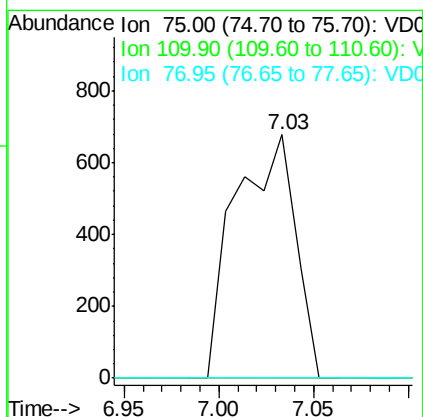
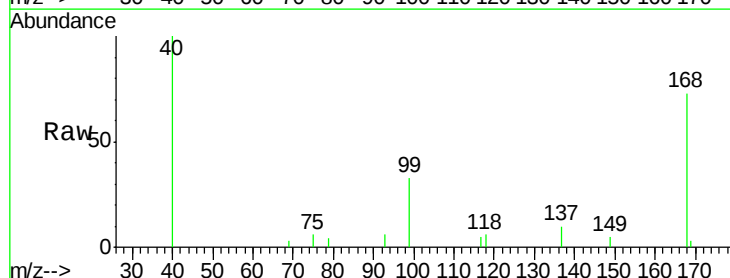
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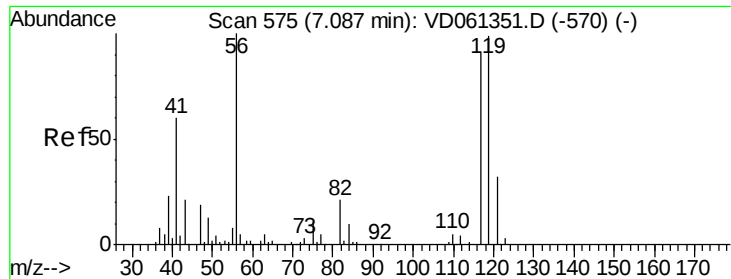
Tgt Ion: 113 Resp: 15211
 Ion Ratio Lower Upper
 113 100
 111 90.3 81.0 121.6
 192 17.9 14.4 21.6



#36
 1,1-Dichloropropene
 Concen: 3.782 ug/l
 RT: 7.03 min Scan# 570
 Delta R.T. -0.08 min
 Lab File: VD061362.D
 Acq: 27 Mar 2019 19:19

Tgt Ion: 75 Resp: 1491
 Ion Ratio Lower Upper
 75 100
 110 0.0 20.4 61.3#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 2.738 ug/l

RT: 7.01 min Scan# 568

Delta R.T. -0.07 min

Lab File: VD061362.D

Acq: 27 Mar 2019 19:19

Instrument :

MSVOA_D

ClientSampled :

CS-15

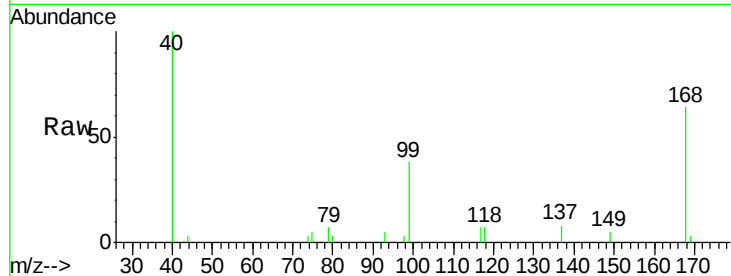
Tgt Ion:117 Resp: 1229

Ion Ratio Lower Upper

117 100

119 0.0 80.1 120.1#

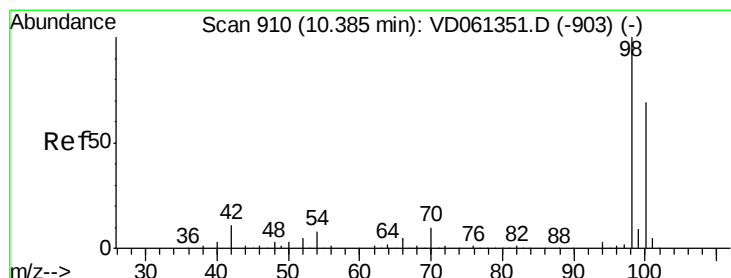
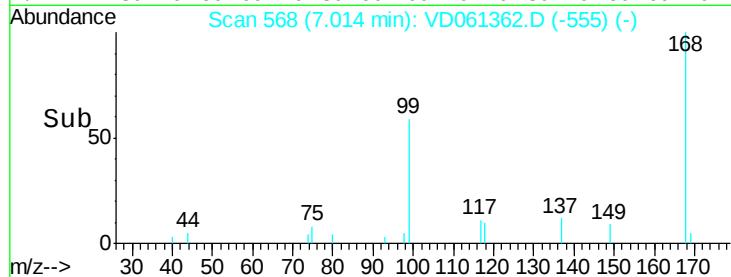
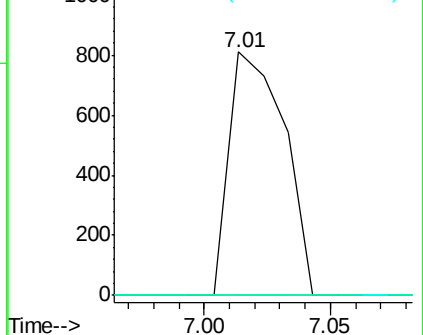
121 0.0 25.6 38.4#



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.38 min Scan# 910

Delta R.T. -0.00 min

Lab File: VD061362.D

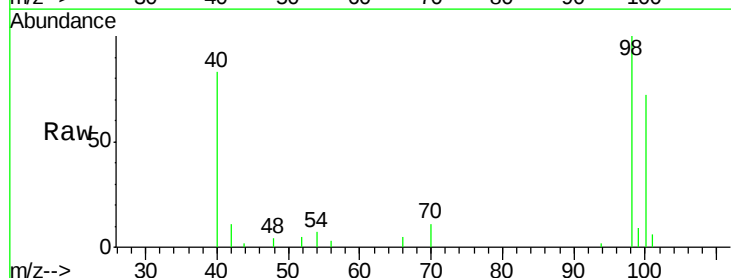
Acq: 27 Mar 2019 19:19

Tgt Ion: 98 Resp: 30079

Ion Ratio Lower Upper

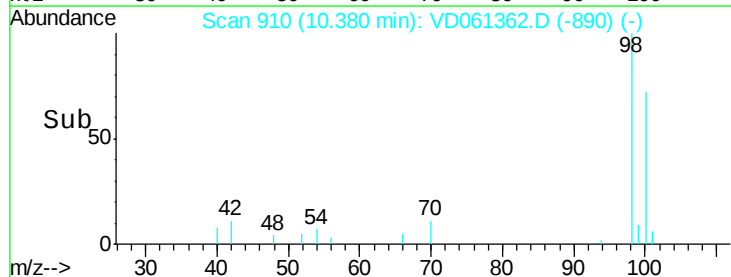
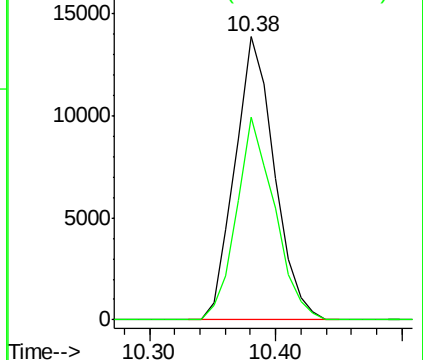
98 100

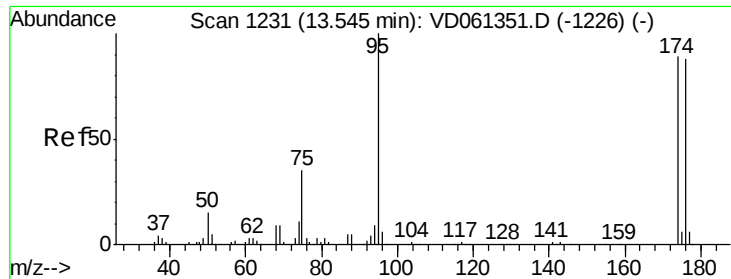
100 71.8 56.2 84.2



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD061362.D

Acq: 27 Mar 2019 19:19

Instrument :

MSVOA_D

ClientSampleId :

CS-15

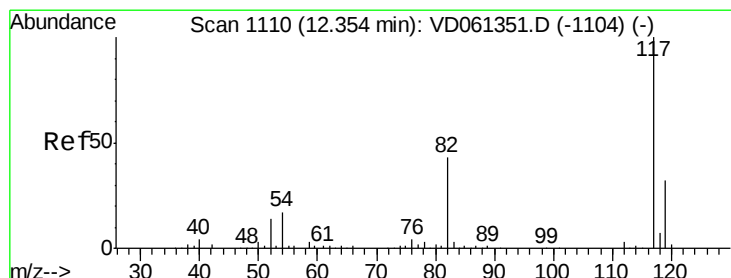
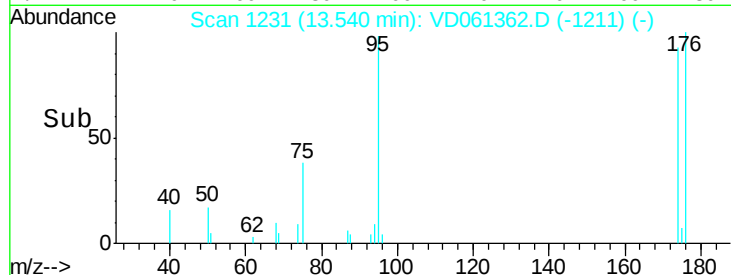
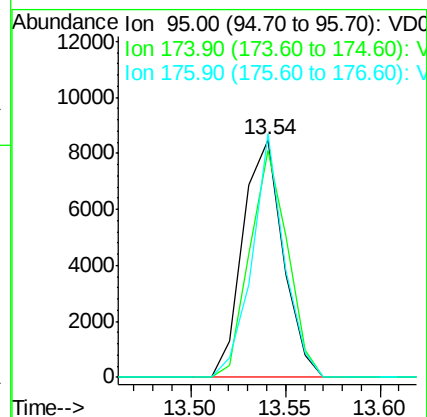
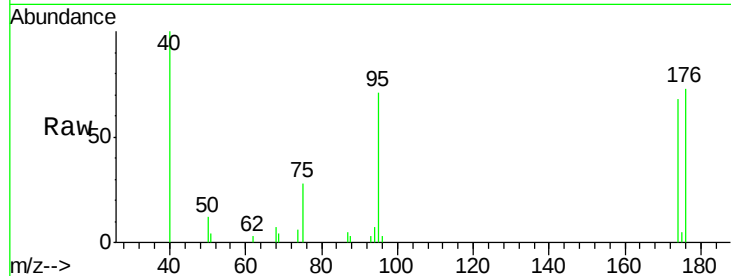
Tgt Ion: 95 Resp: 12472

Ion Ratio Lower Upper

95 100

174 95.7 0.0 178.0

176 102.4 0.0 175.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.35 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VD061362.D

Acq: 27 Mar 2019 19:19

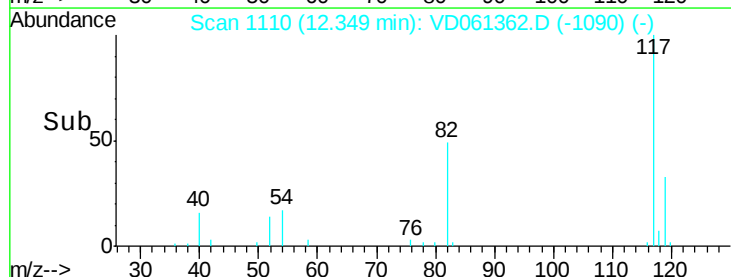
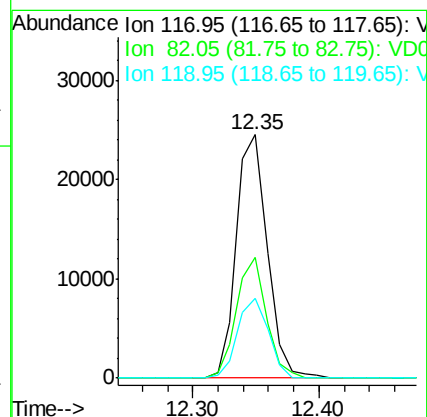
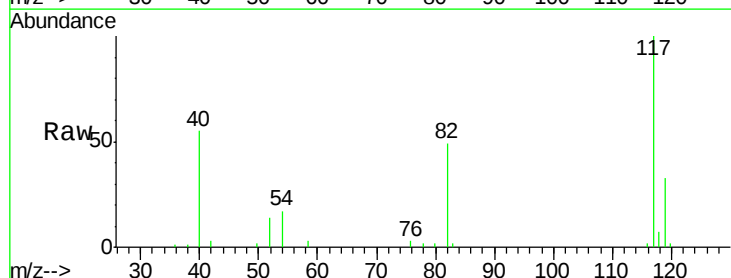
Tgt Ion: 117 Resp: 41400

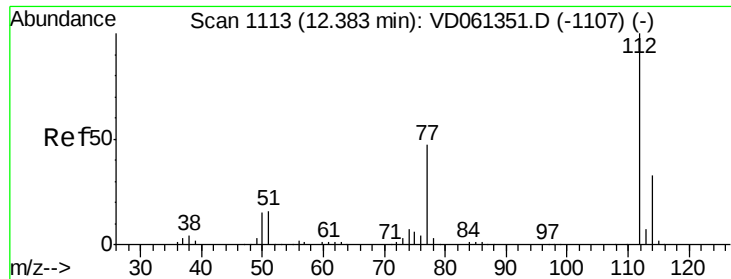
Ion Ratio Lower Upper

117 100

82 49.4 34.4 51.6

119 32.7 25.8 38.6





#65

Chlorobenzene

Concen: 1.151 ug/l

RT: 12.38 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VD061362.D

Acq: 27 Mar 2019 19:19

Instrument :

MSVOA_D

ClientSampleId :

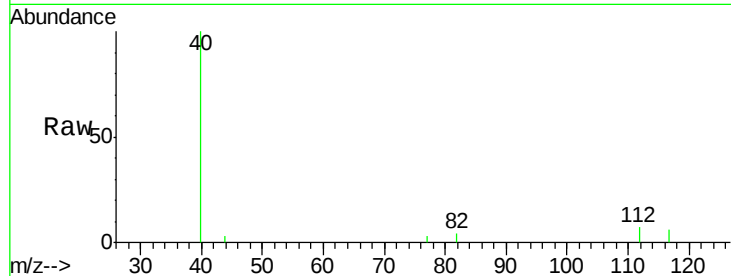
CS-15

Tgt Ion: 112 Resp: 974

Ion Ratio Lower Upper

112 100

114 0.0 26.6 39.8#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V

12.38

800

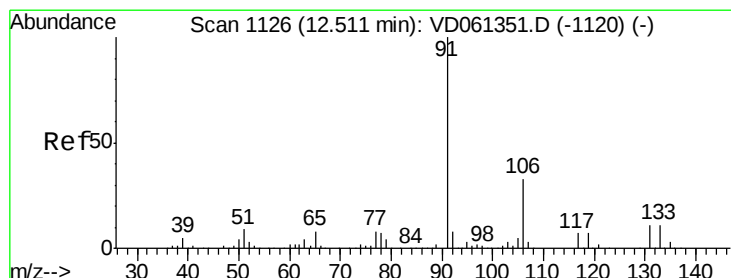
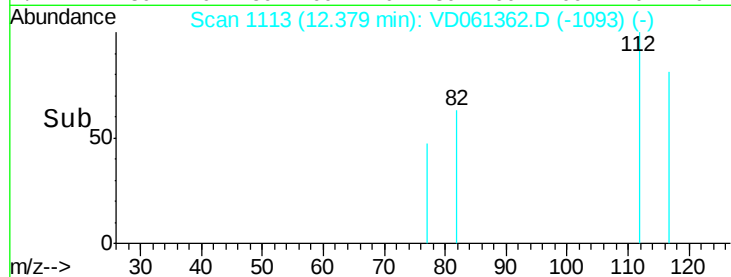
600

400

200

0

Time-->



#67

Ethyl Benzene

Concen: 1.116 ug/l

RT: 12.65 min Scan# 1141

Delta R.T. 0.14 min

Lab File: VD061362.D

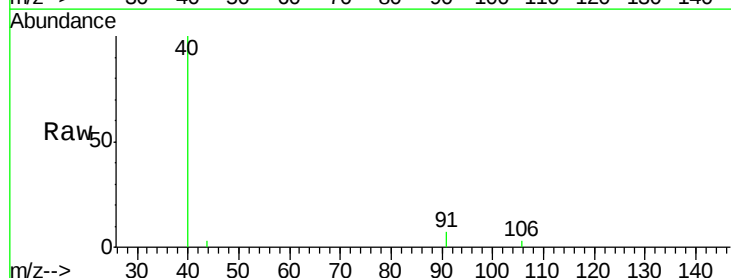
Acq: 27 Mar 2019 19:19

Tgt Ion: 91 Resp: 1441

Ion Ratio Lower Upper

91 100

106 38.3 26.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.05 (105.75 to 106.75): V

12.65

1000

800

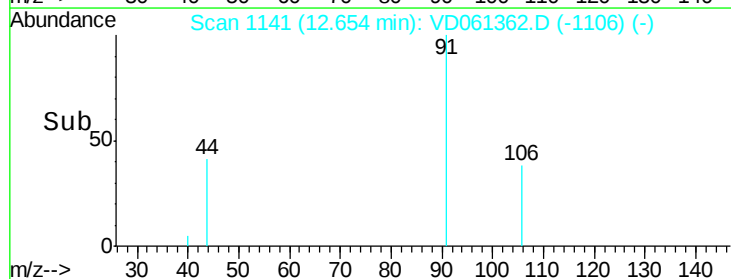
600

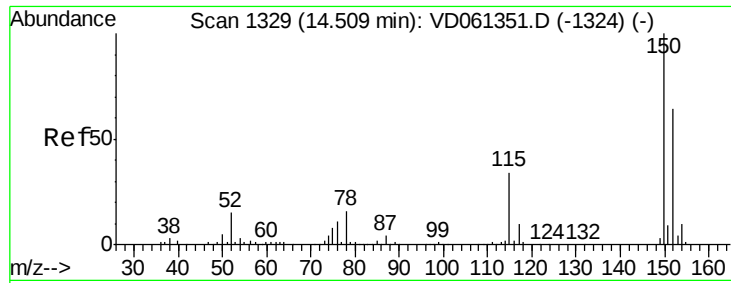
400

200

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VD061362.D

Acq: 27 Mar 2019 19:19

Instrument :

MSVOA_D

ClientSampleId :

CS-15

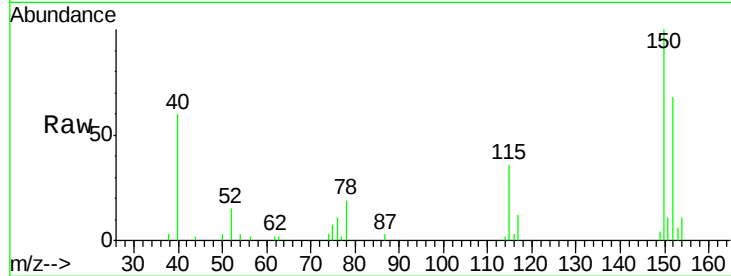
Tgt Ion:152 Resp: 17100

Ion Ratio Lower Upper

152 100

115 53.4 26.9 80.6

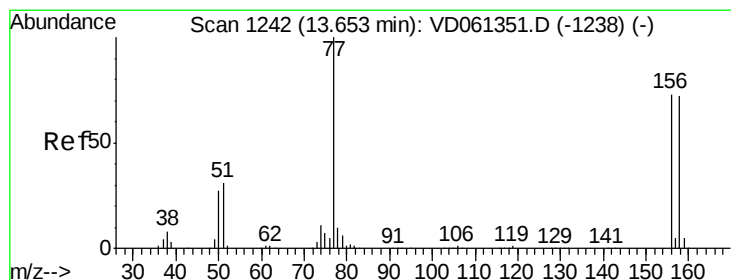
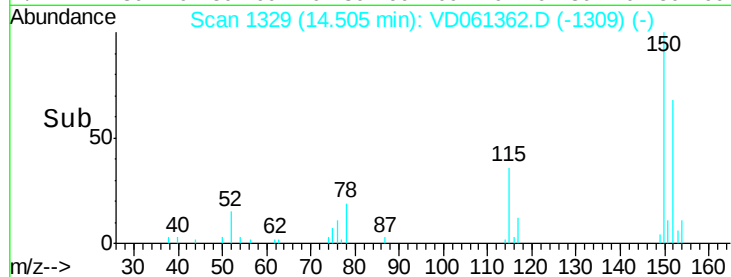
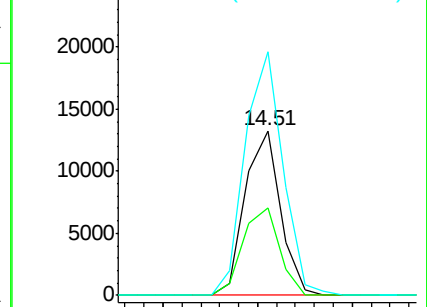
150 147.9 0.0 318.0



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



#77

Bromobenzene

Concen: 1.477 ug/l

RT: 13.65 min Scan# 1242

Delta R.T. -0.00 min

Lab File: VD061362.D

Acq: 27 Mar 2019 19:19

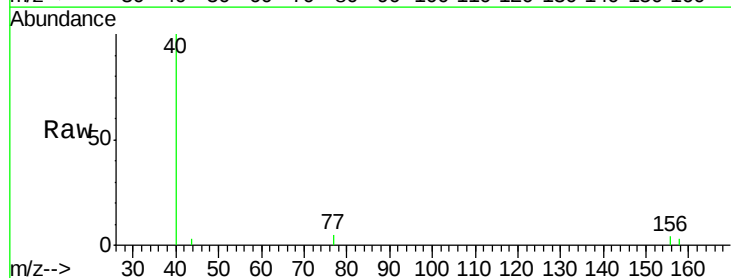
Tgt Ion:156 Resp: 521

Ion Ratio Lower Upper

156 100

77 126.9 68.5 205.6

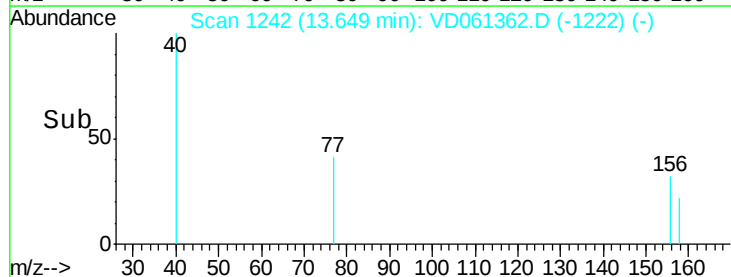
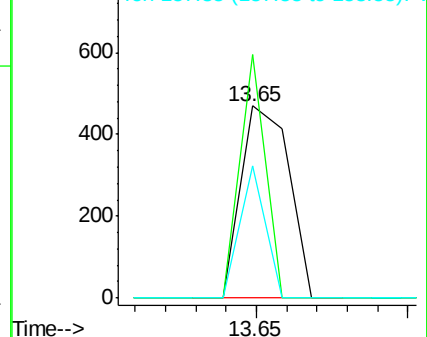
158 68.7 49.1 147.3

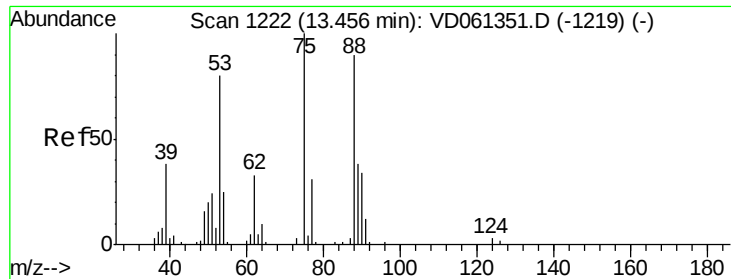


Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V

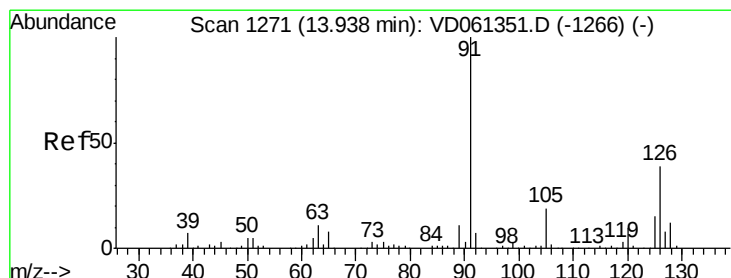
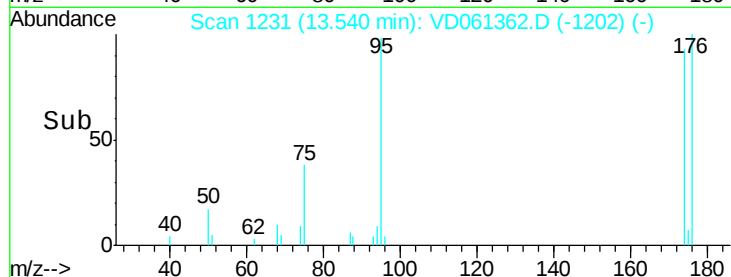
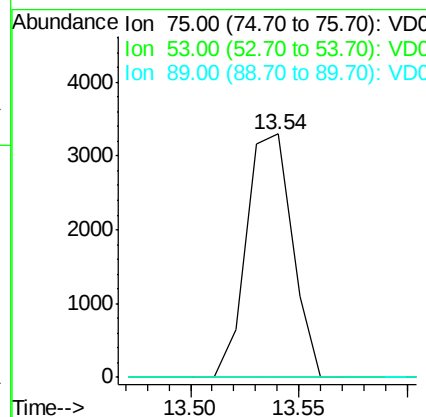
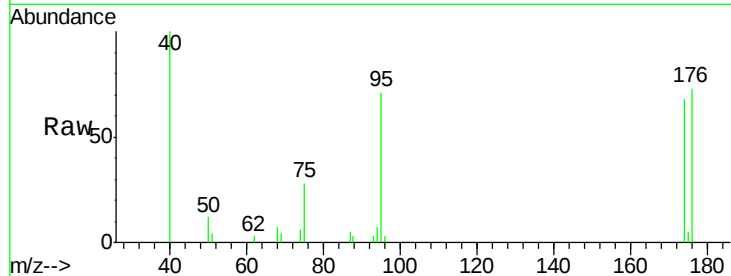




#81
trans-1,4-Dichloro-2-butene
Concen: 64.423 ug/l
RT: 13.54 min Scan# 1231
Delta R.T. 0.08 min
Lab File: VD061362.D
Acq: 27 Mar 2019 19:19

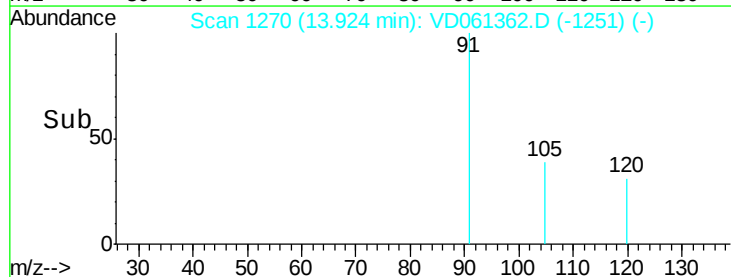
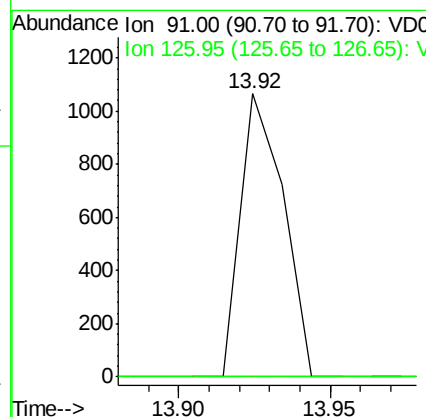
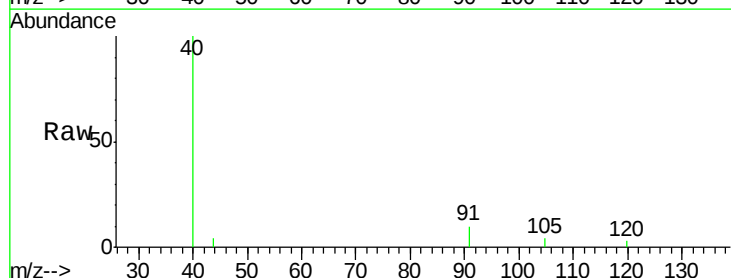
Instrument :
MSVOA_D
ClientSampleId :
CS-15

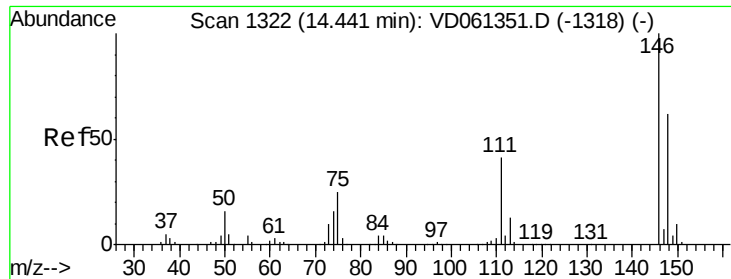
Tgt Ion: 75 Resp: 4852
Ion Ratio Lower Upper
75 100
53 0.0 63.8 95.8#
89 0.0 30.5 45.7#



#82
4-Chlorotoluene
Concen: 1.229 ug/l
RT: 13.92 min Scan# 1270
Delta R.T. -0.01 min
Lab File: VD061362.D
Acq: 27 Mar 2019 19:19

Tgt Ion: 91 Resp: 1057
Ion Ratio Lower Upper
91 100
126 0.0 19.6 58.8#

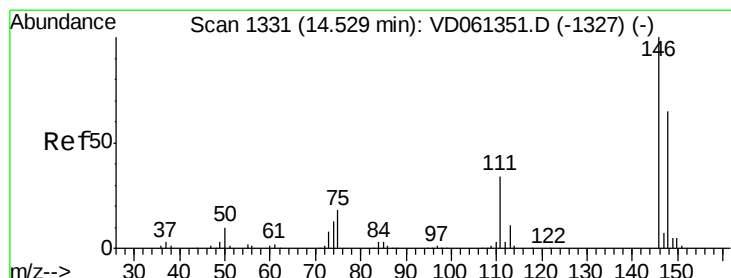
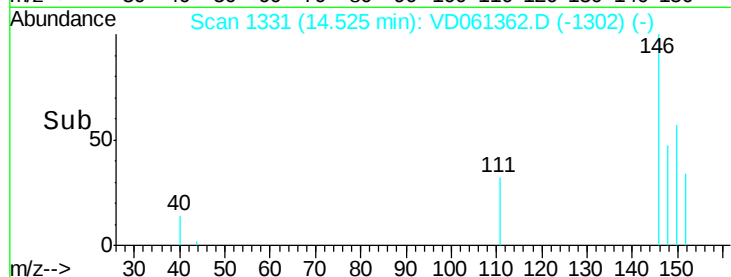
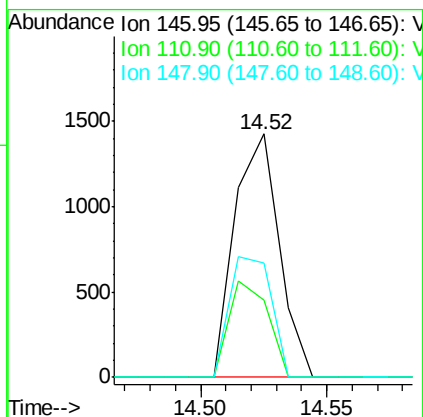
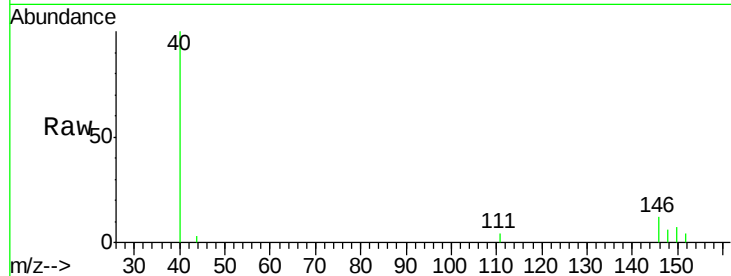




#87
 1,3-Dichlorobenzene
 Concen: 2.911 ug/l
 RT: 14.52 min Scan# 1331
 Delta R.T. 0.08 min
 Lab File: VD061362.D
 Acq: 27 Mar 2019 19:19

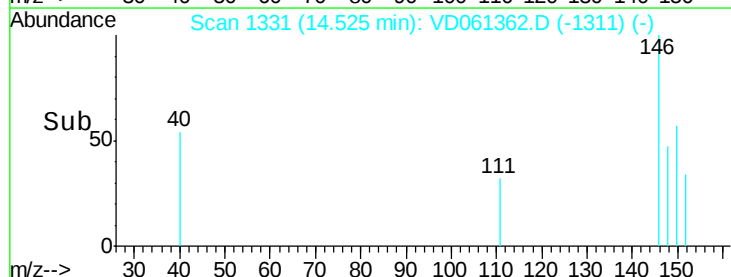
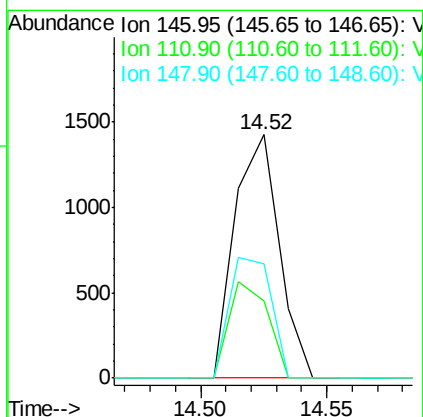
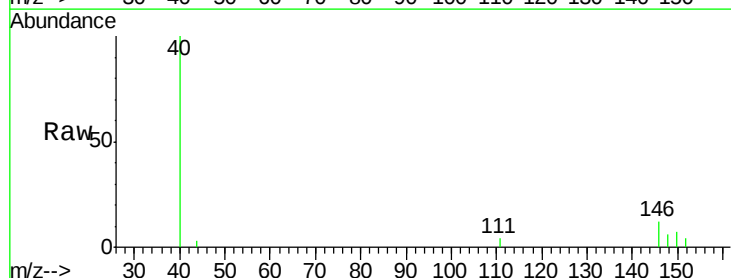
Instrument :
 MSVOA_D
 ClientSampleID :
 CS-15

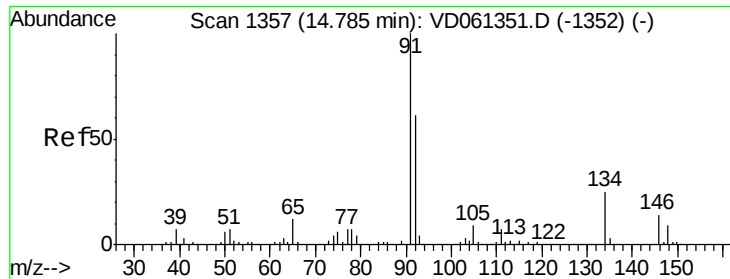
Tgt Ion:146 Resp: 1739
 Ion Ratio Lower Upper
 146 100
 111 31.6 20.6 61.9
 148 47.1 31.1 93.3



#88
 1,4-Dichlorobenzene
 Concen: 2.985 ug/l
 RT: 14.52 min Scan# 1331
 Delta R.T. -0.00 min
 Lab File: VD061362.D
 Acq: 27 Mar 2019 19:19

Tgt Ion:146 Resp: 1739
 Ion Ratio Lower Upper
 146 100
 111 31.6 16.8 50.4
 148 47.1 32.6 98.0





#89

n-Butylbenzene

Concen: 1.276 ug/l

RT: 14.78 min Scan# 1357

Delta R.T. -0.00 min

Lab File: VD061362.D

Acq: 27 Mar 2019 19:19

Instrument :

MSVOA_D

ClientSampleId :

CS-15

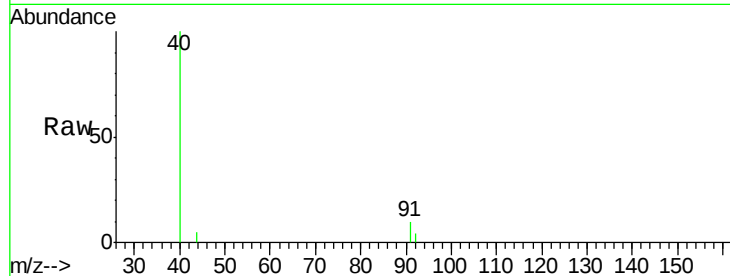
Tgt Ion: 91 Resp: 1214

Ion Ratio Lower Upper

91 100

92 41.4 30.3 91.0

134 0.0 12.4 37.0#

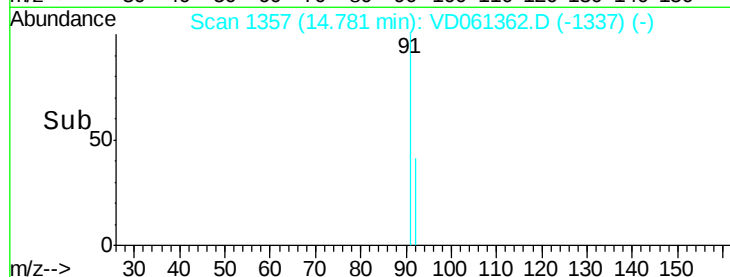


Abundance Ion 91.00 (90.70 to 91.70): V

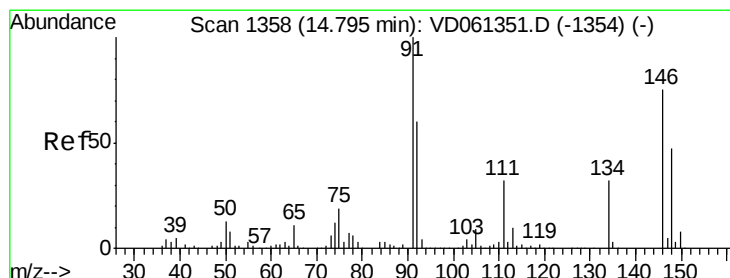
Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V

Time-->



Time-->



#91

1,2-Dichlorobenzene

Concen: 1.790 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VD061362.D

Acq: 27 Mar 2019 19:19

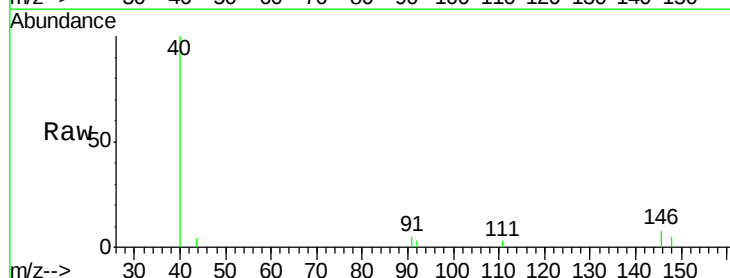
Tgt Ion: 146 Resp: 877

Ion Ratio Lower Upper

146 100

111 39.5 21.2 63.6

148 57.2 31.6 95.0

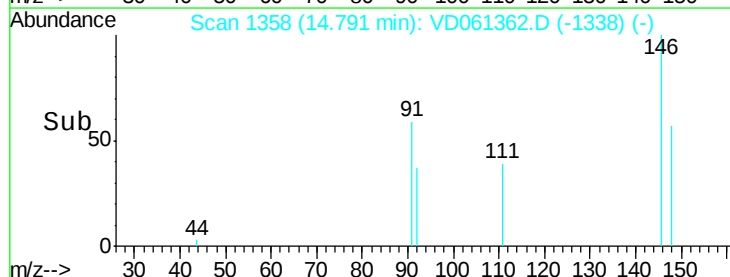


Abundance Ion 145.95 (145.65 to 146.65): V

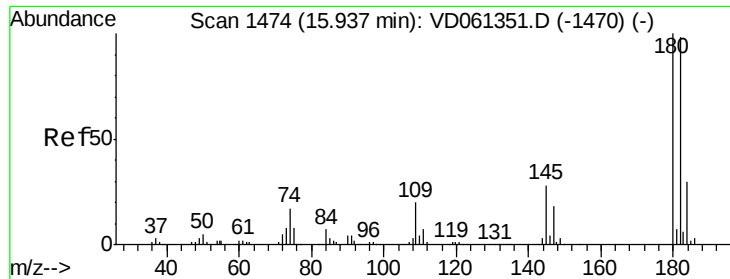
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

Time-->



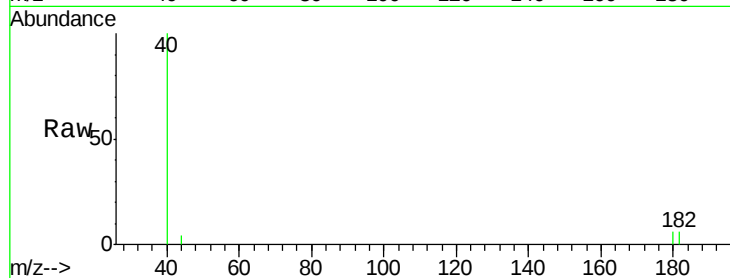
Time-->



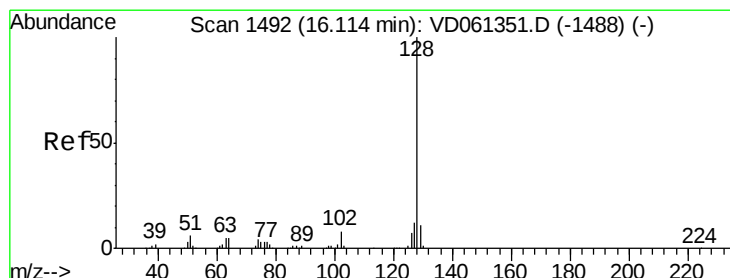
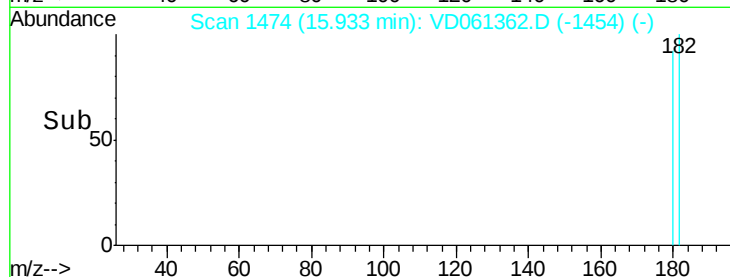
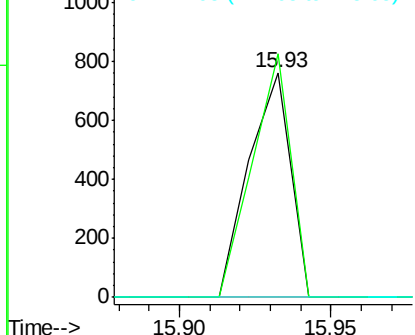
#93
 1,2,4-Trichlorobenzene
 Concen: 3.252 ug/l
 RT: 15.93 min Scan# 1474
 Delta R.T. -0.00 min
 Lab File: VD061362.D
 Acq: 27 Mar 2019 19:19

Instrument :
 MSVOA_D
 ClientSampleId :
 CS-15

Tgt Ion:180 Resp: 726
 Ion Ratio Lower Upper
 180 100
 182 108.4 48.9 146.8
 145 0.0 14.1 42.3#

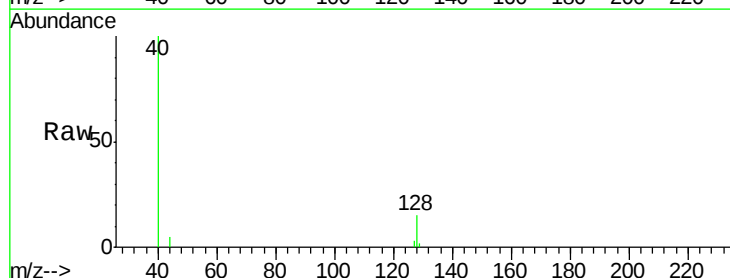


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

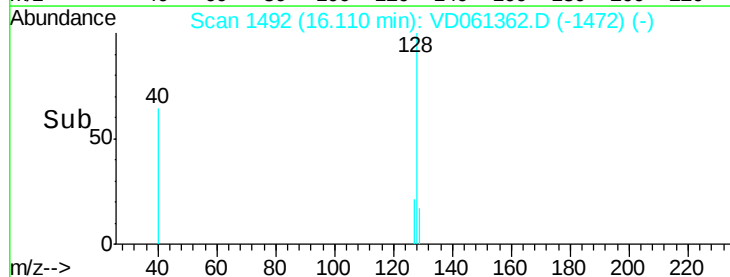
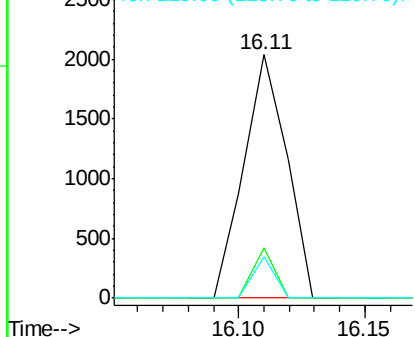


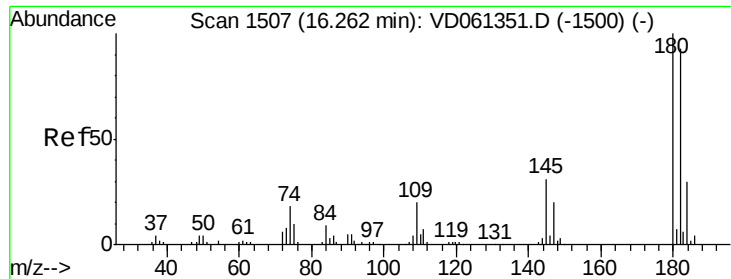
#95
 Naphthalene
 Concen: 7.059 ug/l
 RT: 16.11 min Scan# 1492
 Delta R.T. -0.00 min
 Lab File: VD061362.D
 Acq: 27 Mar 2019 19:19

Tgt Ion:128 Resp: 2402
 Ion Ratio Lower Upper
 128 100
 127 20.9 9.9 14.9#
 129 16.9 8.9 13.3#



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

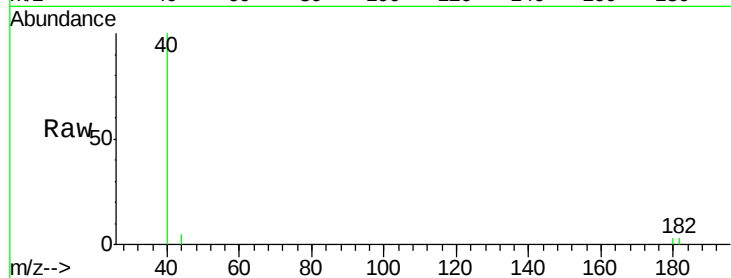




#96
 1,2,3-Trichlorobenzene
 Concen: 2.759 ug/l
 RT: 16.26 min Scan# 1507
 Delta R.T. -0.00 min
 Lab File: VD061362.D
 Acq: 27 Mar 2019 19:19

Instrument :
 MSVOA_D
 ClientSampleId :
 CS-15

Tgt Ion:180 Resp: 271
 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

