

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062819\
 Data File : VD062961.D
 Acq On : 28 Jun 2019 12:56
 Operator : VA/AP
 Sample : K3552-14
 Misc : 5.02g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 M-7A

Quant Time: Jun 29 00:14:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	31923	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.19	114	69775	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.35	117	65835	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.50	152	51624	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	65892	189.89	ug/l	-0.04
Spiked Amount			Recovery	=	379.78%	
35) Dibromofluoromethane	6.89	113	42347	71.98	ug/l	-0.04
Spiked Amount			Recovery	=	143.96%	
50) Toluene-d8	10.39	98	51489	40.21	ug/l	-0.03
Spiked Amount			Recovery	=	80.42%	
62) 4-Bromofluorobenzene	13.54	95	42068	72.25	ug/l	-0.02
Spiked Amount			Recovery	=	144.50%	

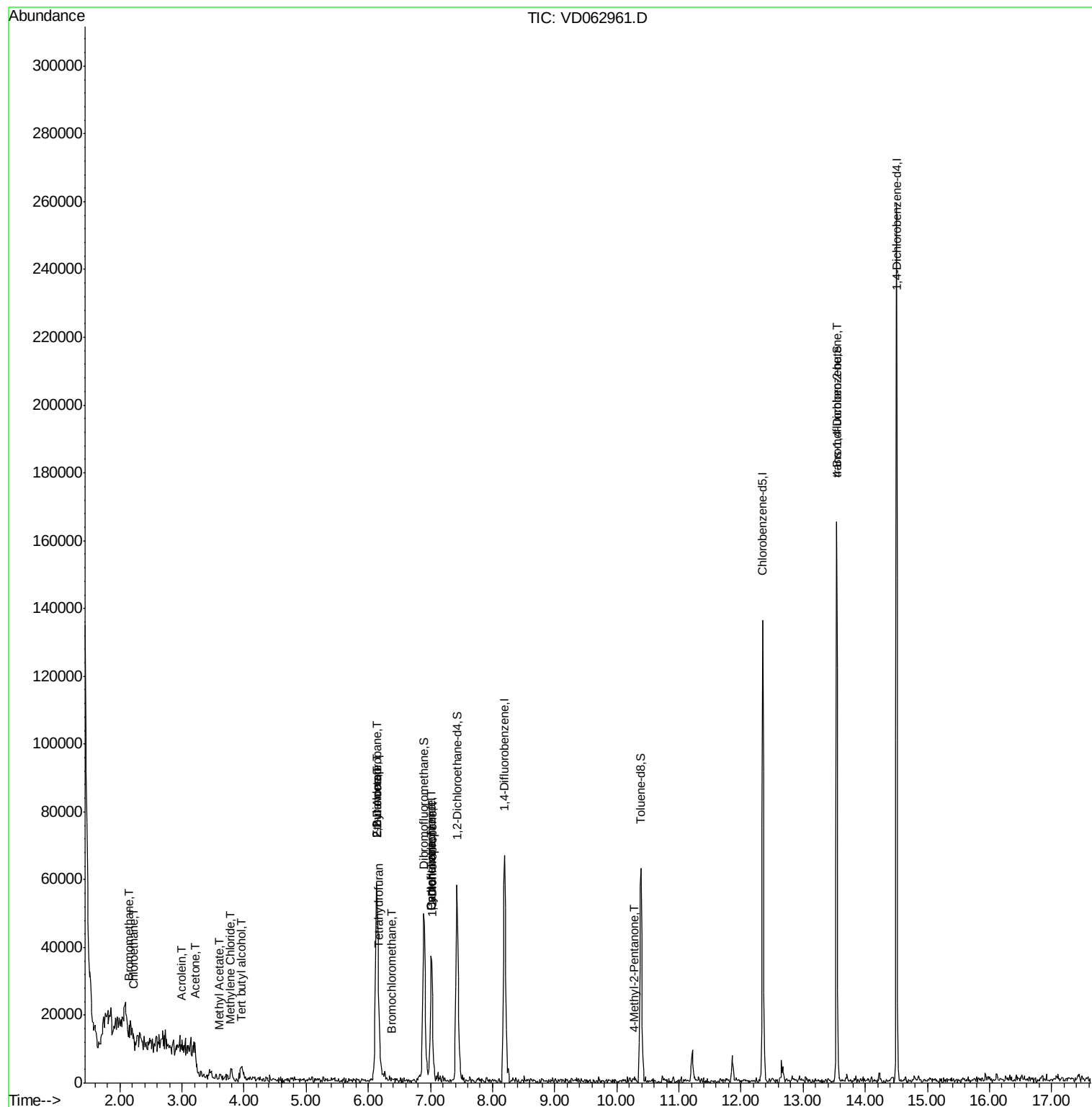
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	1708	11.840	ug/l #	13
6) Chloroethane	2.22	64	673	4.826	ug/l #	11
11) Tert butyl alcohol	3.97	59	3190	201.849	ug/l #	77
13) Acrolein	2.99	56	201	12.458	ug/l #	15
16) Acetone	3.21	43	20853	297.675	ug/l #	91
18) Methyl Acetate	3.60	43	256	2.444	ug/l #	58
20) Methylene Chloride	3.78	84	1022	3.862	ug/l #	61
25) 2-Butanone	6.15	43	3833	59.061	ug/l #	64
26) 2,2-Dichloropropane	6.13	77	2927	5.571	ug/l #	58
28) Bromochloromethane	6.36	49	184	1.054	ug/l #	4
29) Tetrahydrofuran	6.18	42	206	6.709	ug/l #	33
31) Cyclohexane	7.01	56	850	2.609	ug/l #	1
36) 1,1-Dichloropropene	7.03	75	2229	3.375	ug/l #	46
37) Ethyl Acetate	6.15	43	3833	12.999	ug/l #	1
38) Carbon Tetrachloride	7.00	117	2932	2.951	ug/l #	13
51) 4-Methyl-2-Pentanone	10.27	43	690	2.810	ug/l #	41
81) trans-1,4-Dichloro-2-buten	13.54	75	21864	139.981	ug/l #	2

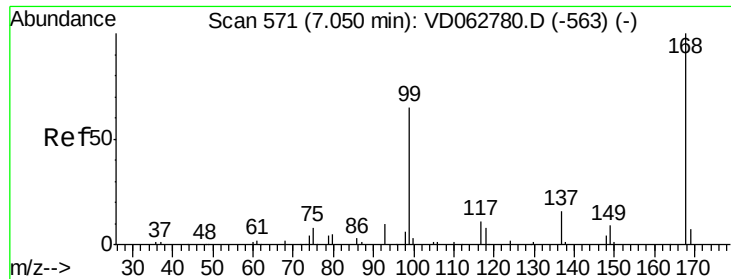
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.01 min Scan# 567

Delta R.T. -0.04 min

Lab File: VD062961.D

Acq: 28 Jun 2019 12:56

Instrument :

MSVOA_D

ClientSampleId :

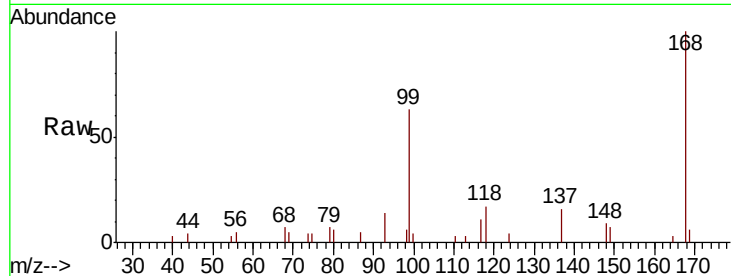
M-7A

Tot Ion:168 Resp: 31923

Ion Ratio Lower Upper

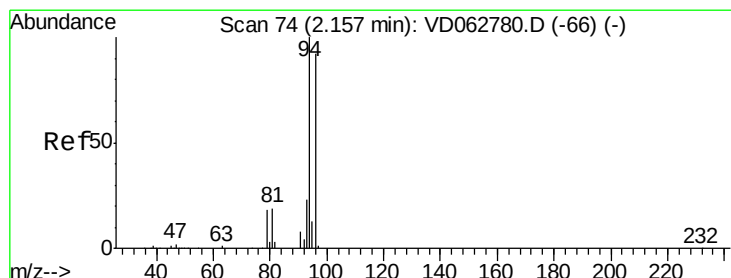
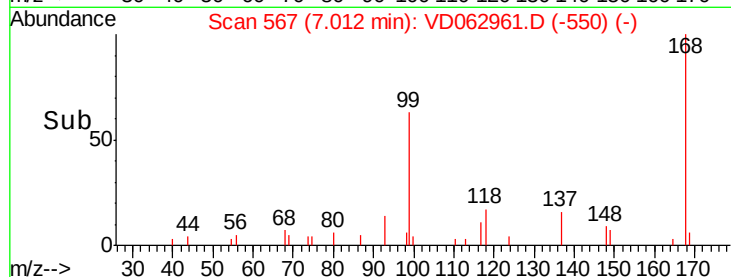
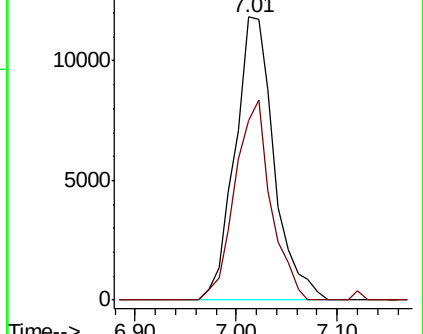
168 100

99 63.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 11.840 ug/l

RT: 2.14 min Scan# 72

Delta R.T. -0.02 min

Lab File: VD062961.D

Acq: 28 Jun 2019 12:56

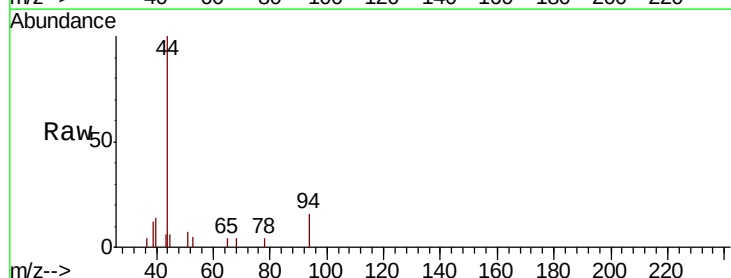
Tgt Ion: 94 Resp: 1708

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.2#

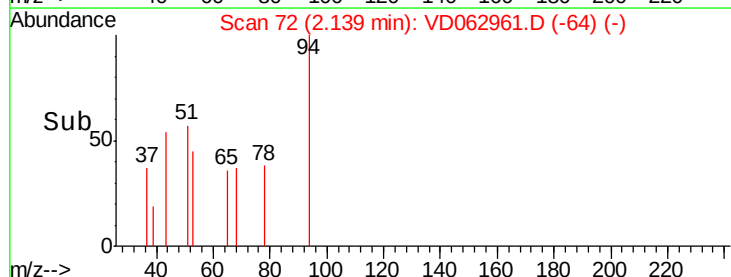
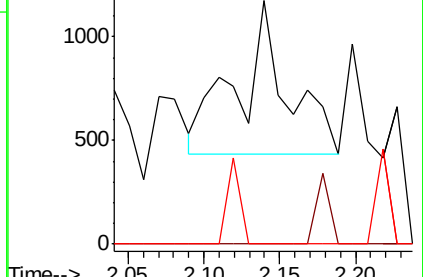
93 0.0 18.2 27.4#

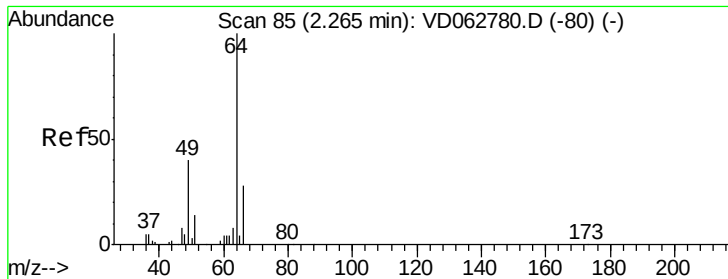


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#6

Chloroethane

Concen: 4.826 ug/l

RT: 2.22 min Scan# 80

Delta R.T. -0.05 min

Lab File: VD062961.D

Acq: 28 Jun 2019 12:56

Instrument :

MSVOA_D

ClientSampled :

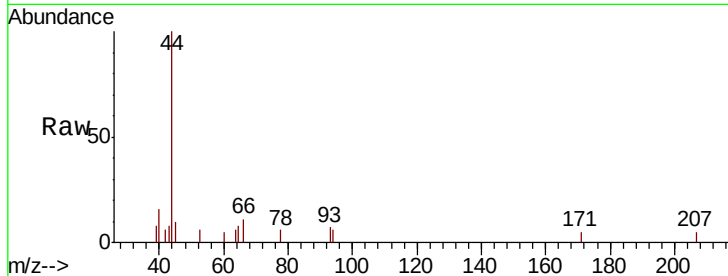
M-7A

Tot Ion: 64 Resp: 673

Ion Ratio Lower Upper

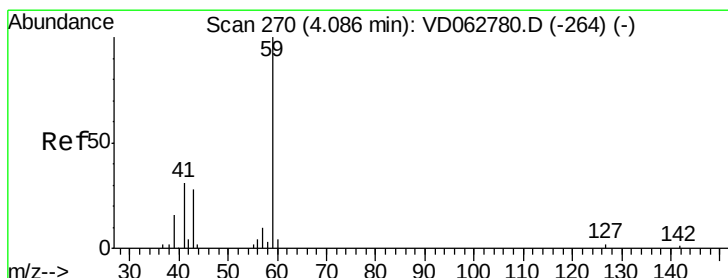
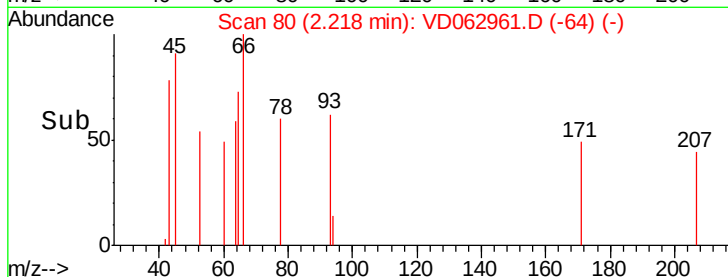
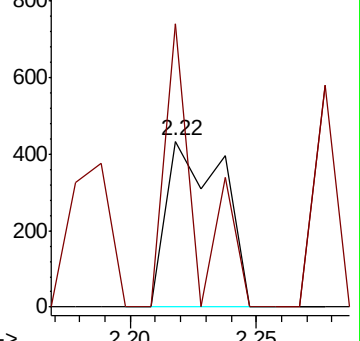
64 100

66 76.2 23.0 34.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#11

Tert butyl alcohol

Concen: 201.849 ug/l

RT: 3.97 min Scan# 258

Delta R.T. -0.12 min

Lab File: VD062961.D

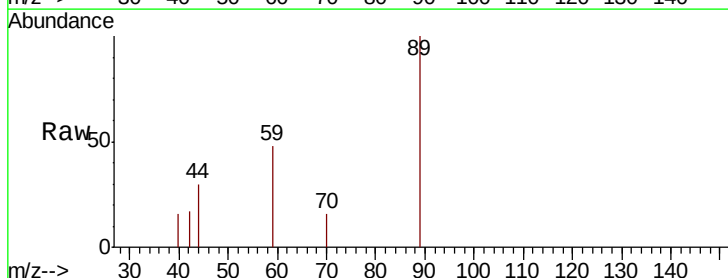
Acq: 28 Jun 2019 12:56

Tgt Ion: 59 Resp: 3190

Ion Ratio Lower Upper

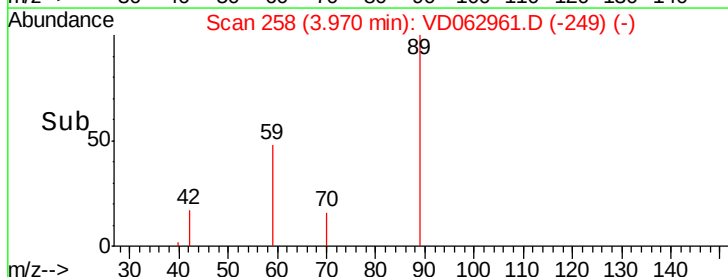
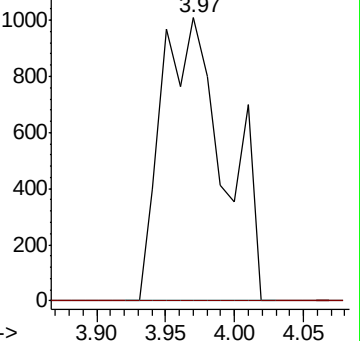
59 100

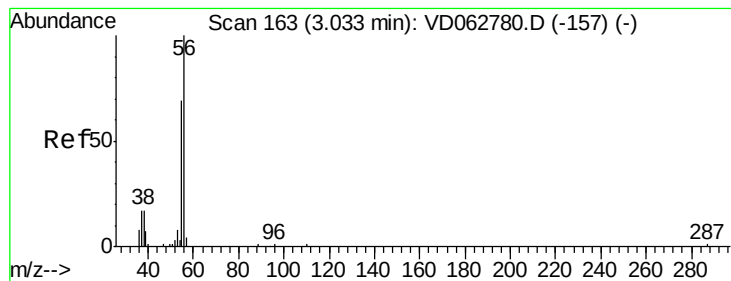
57 0.0 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 12.458 ug/l

RT: 2.99 min Scan# 158

Delta R.T. -0.05 min

Lab File: VD062961.D

Acq: 28 Jun 2019 12:56

Instrument :

MSVOA_D

ClientSampleId :

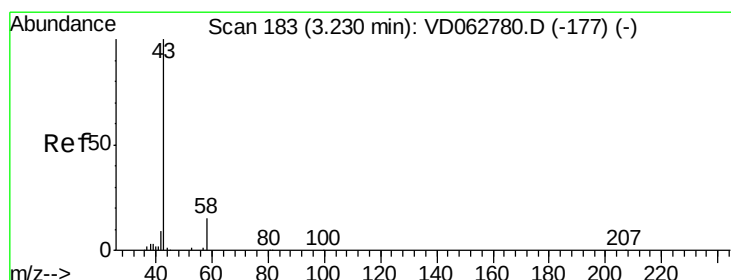
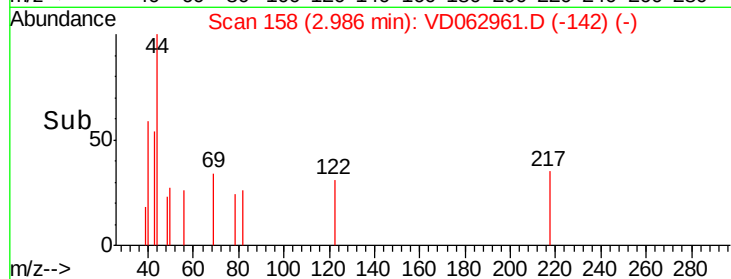
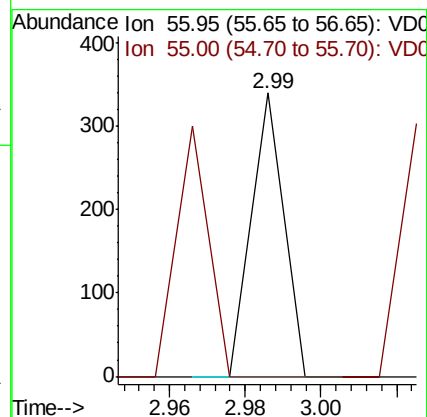
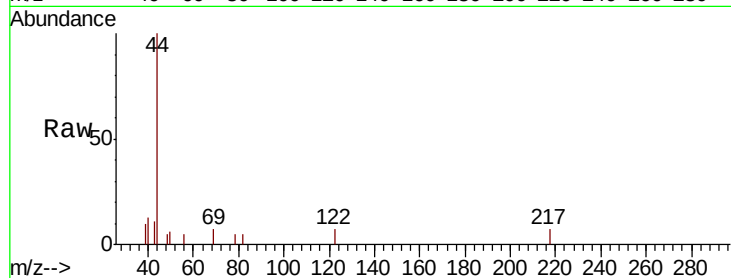
M-7A

Tot Ion: 56 Resp: 201

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#



#16

Acetone

Concen: 297.675 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.02 min

Lab File: VD062961.D

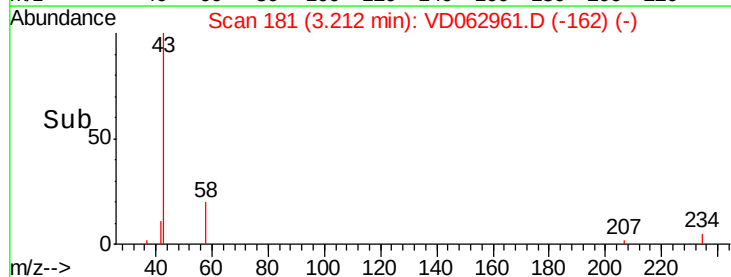
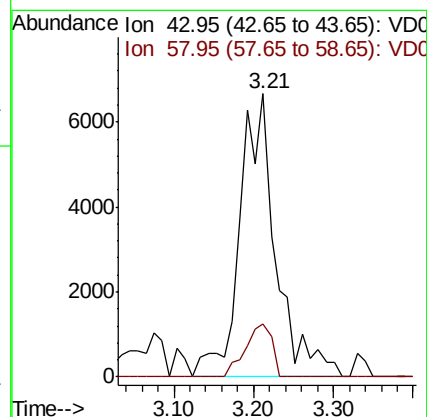
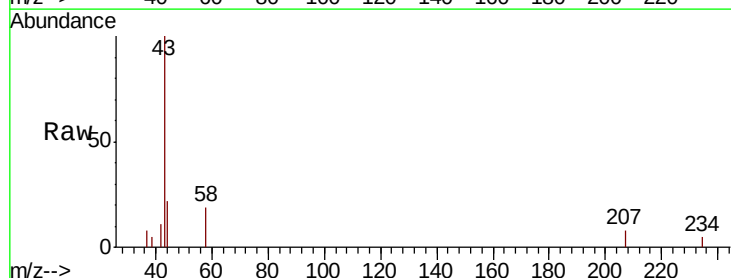
Acq: 28 Jun 2019 12:56

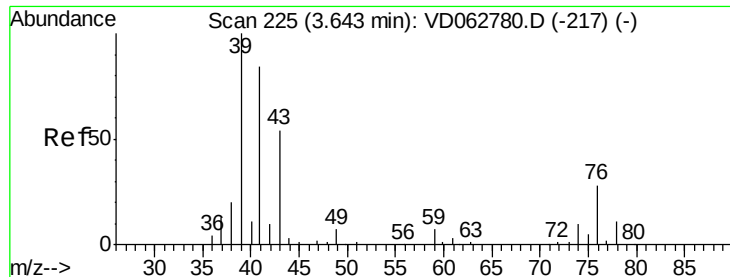
Tgt Ion: 43 Resp: 20853

Ion Ratio Lower Upper

43 100

58 18.8 11.9 17.9#

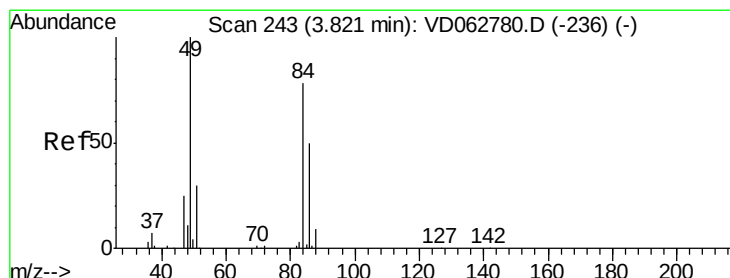
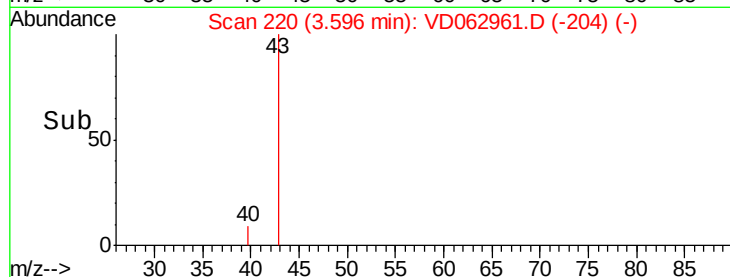
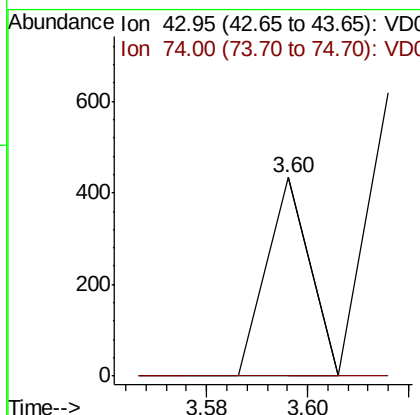
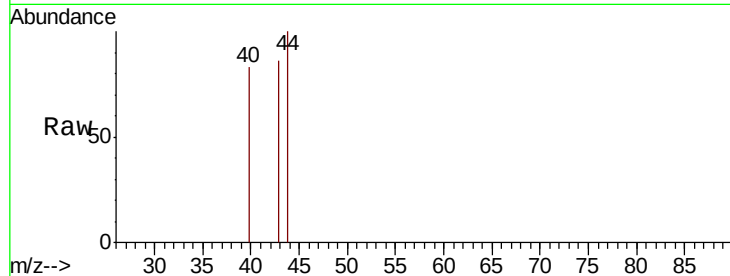




#18
Methyl Acetate
Concen: 2.444 ug/l
RT: 3.60 min Scan# 220
Delta R.T. -0.05 min
Lab File: VD062961.D
Acq: 28 Jun 2019 12:56

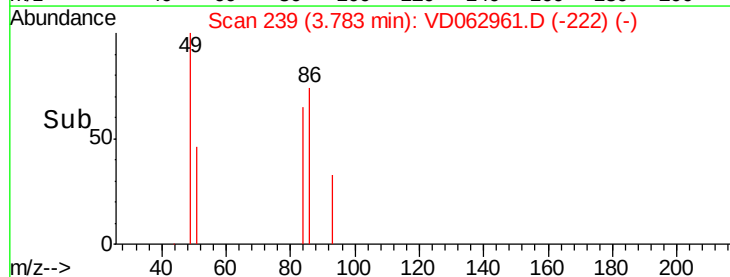
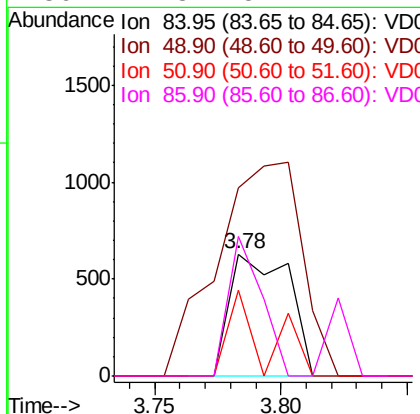
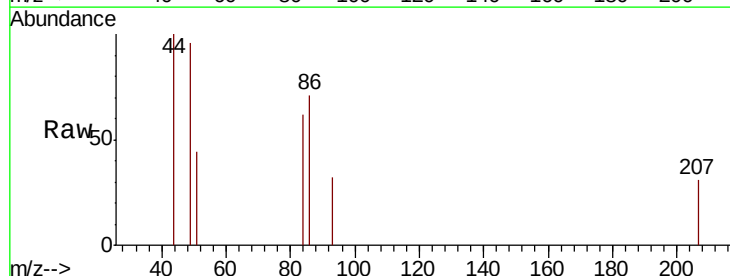
Instrument :
MSVOA_D
ClientSampleId :
M-7A

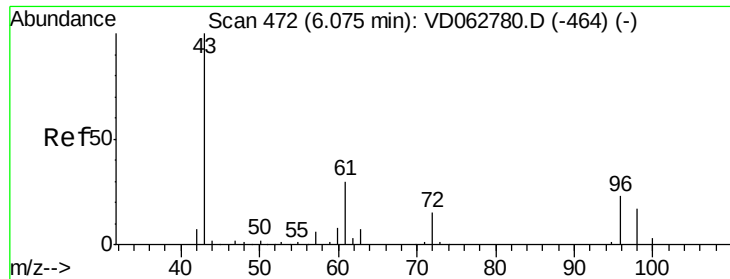
Tot Ion: 43 Resp: 256
Ion Ratio Lower Upper
43 100
74 0.0 15.2 22.8#



#20
Methylene Chloride
Concen: 3.862 ug/l
RT: 3.78 min Scan# 239
Delta R.T. -0.04 min
Lab File: VD062961.D
Acq: 28 Jun 2019 12:56

Tgt Ion: 84 Resp: 1022
Ion Ratio Lower Upper
84 100
49 154.5 102.9 154.3#
51 70.4 31.2 46.8#
86 114.8 51.4 77.2#





#25

2-Butanone

Concen: 59.061 ug/l

RT: 6.15 min Scan# 479

Delta R.T. 0.07 min

Lab File: VD062961.D

Acq: 28 Jun 2019 12:56

Instrument :

MSVOA_D

ClientSampleId :

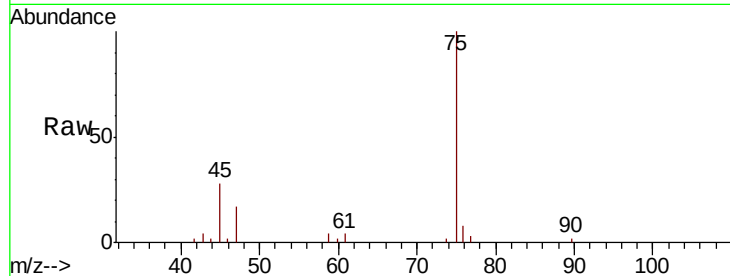
M-7A

Tot Ion: 43 Resp: 3833

Ion Ratio Lower Upper

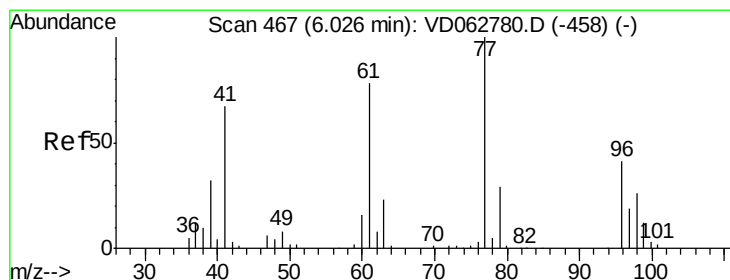
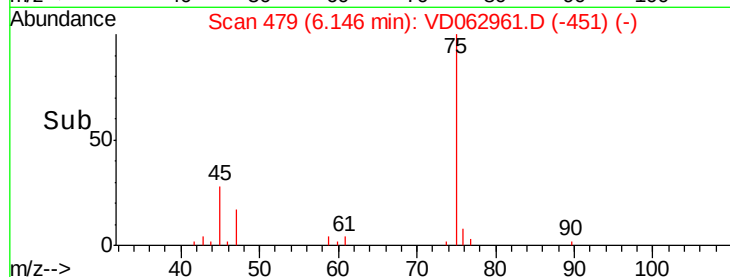
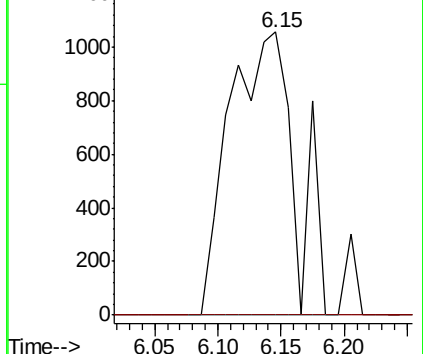
43 100

72 0.0 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 5.571 ug/l

RT: 6.13 min Scan# 477

Delta R.T. 0.10 min

Lab File: VD062961.D

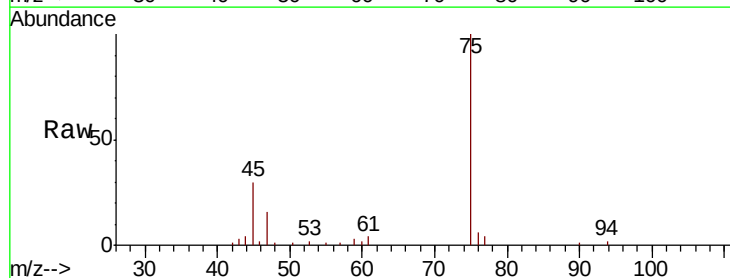
Acq: 28 Jun 2019 12:56

Tgt Ion: 77 Resp: 2927

Ion Ratio Lower Upper

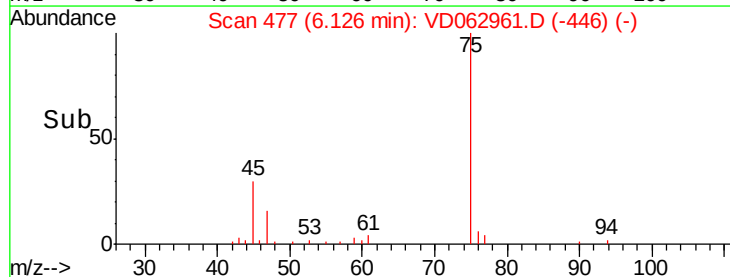
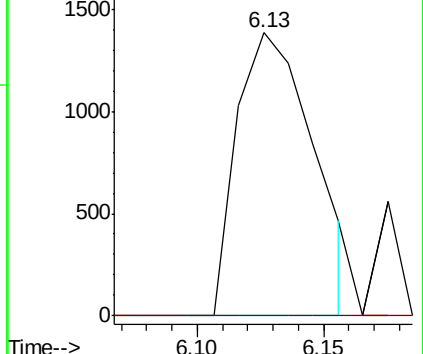
77 100

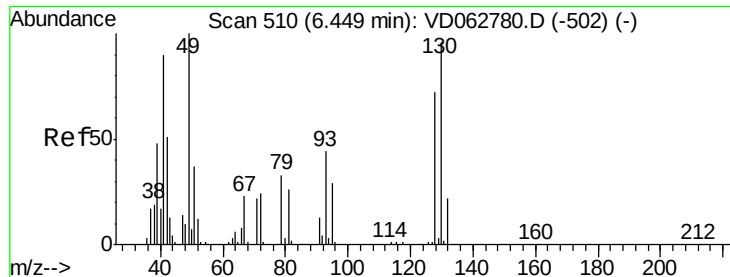
97 0.0 9.5 28.5#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#28

Bromochloromethane

Concen: 1.054 ug/l

RT: 6.36 min Scan# 501

Delta R.T. -0.09 min

Lab File: VD062961.D

Acq: 28 Jun 2019 12:56

Instrument :

MSVOA_D

ClientSampleId :

M-7A

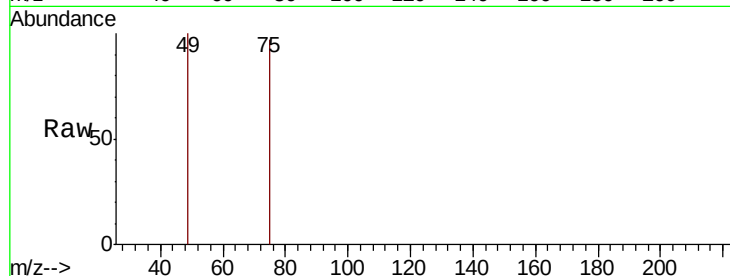
Tot Ion: 49 Resp: 184

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.6

130 0.0 76.6 114.8#



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC

6.36

300

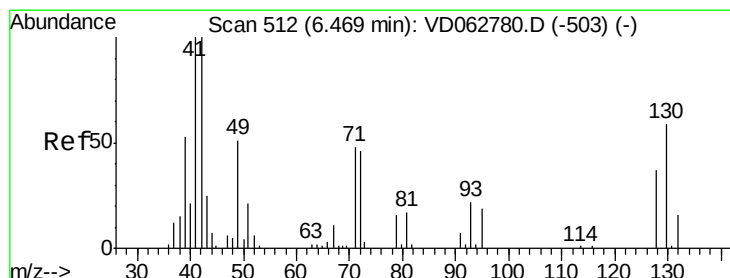
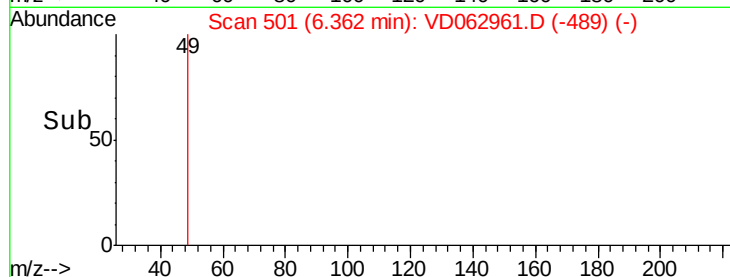
200

100

0

6.34 6.36 6.38

Time-->



#29

Tetrahydrofuran

Concen: 6.709 ug/l

RT: 6.18 min Scan# 482

Delta R.T. -0.29 min

Lab File: VD062961.D

Acq: 28 Jun 2019 12:56

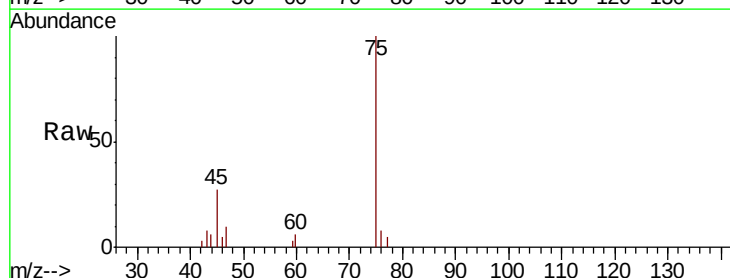
Tgt Ion: 42 Resp: 206

Ion Ratio Lower Upper

42 100

72 0.0 35.0 52.6#

71 0.0 33.3 49.9#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

6.18

400

300

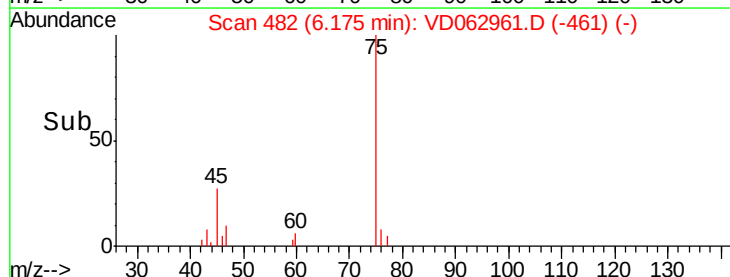
200

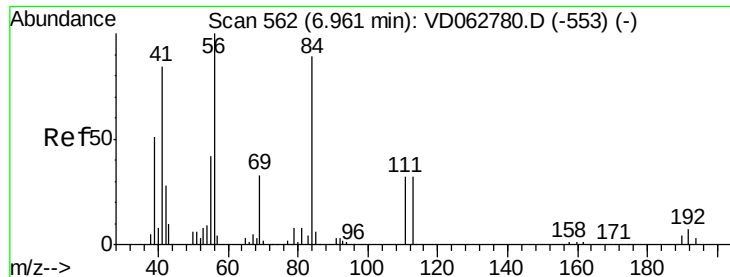
100

0

6.16 6.18 6.20

Time-->

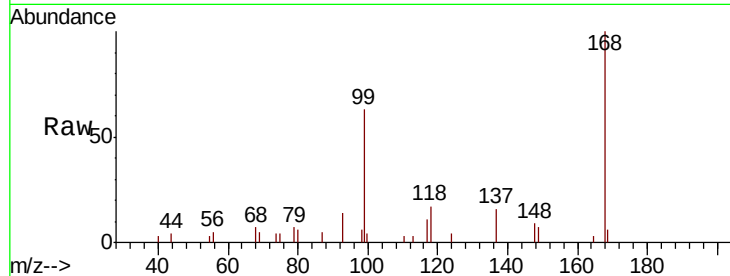




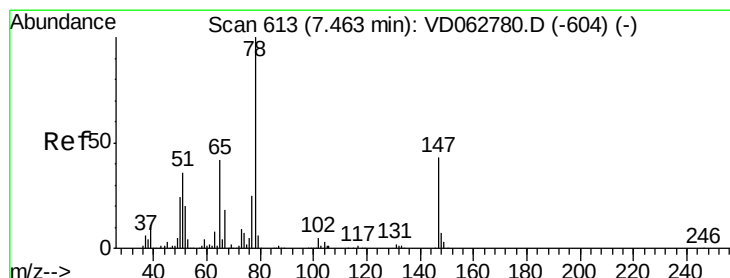
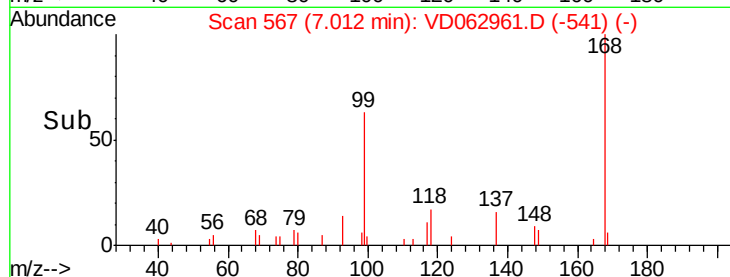
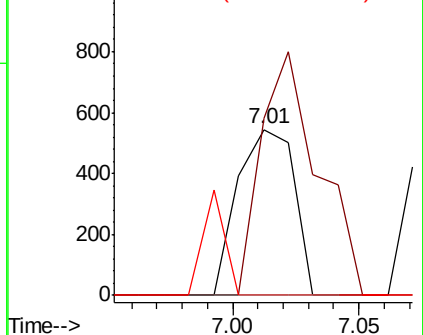
#31
Cyclohexane
Concen: 2.609 ug/l
RT: 7.01 min Scan# 567
Delta R.T. 0.05 min
Lab File: VD062961.D
Acq: 28 Jun 2019 12:56

Instrument :
MSVOA_D
ClientSampleId :
M-7A

Tot Ion: 56 Resp: 850
Ion Ratio Lower Upper
56 100
69 107.2 26.6 39.8#
84 0.0 75.5 113.3#

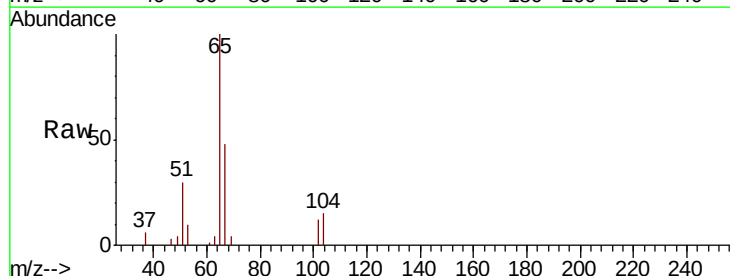


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

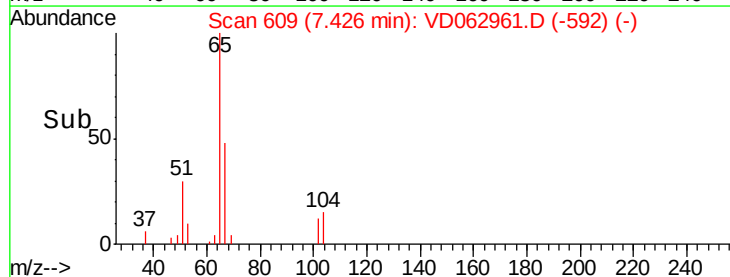
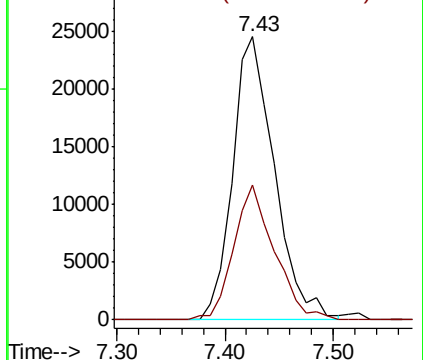


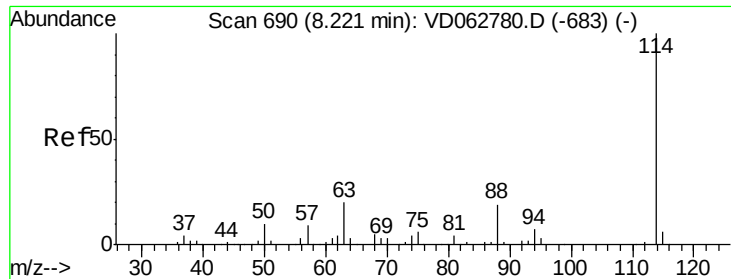
#33
1,2-Dichloroethane-d4
Concen: 189.891 ug/l
RT: 7.43 min Scan# 609
Delta R.T. -0.04 min
Lab File: VD062961.D
Acq: 28 Jun 2019 12:56

Tgt Ion: 65 Resp: 65892
Ion Ratio Lower Upper
65 100
67 47.8 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

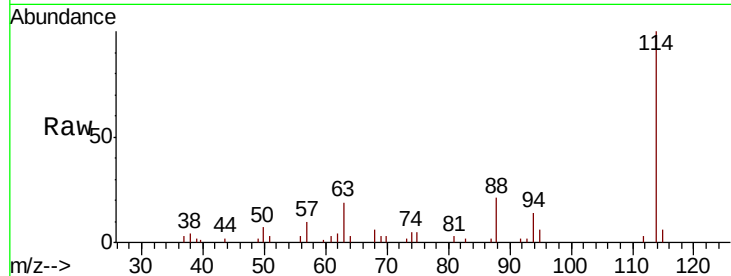




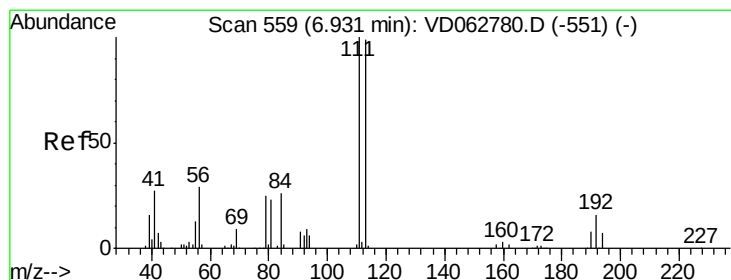
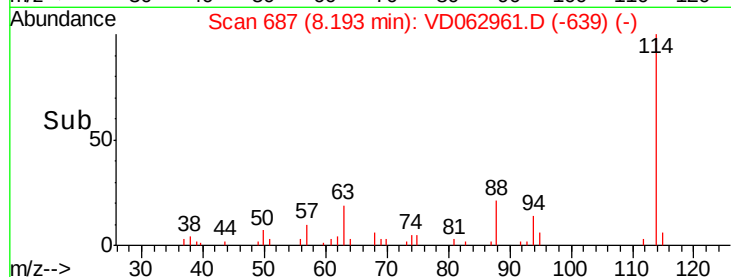
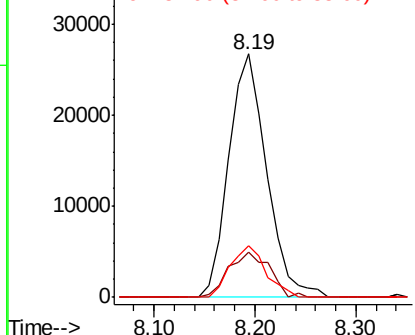
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.19 min Scan# 687
 Delta R.T. -0.03 min
 Lab File: VD062961.D
 Acq: 28 Jun 2019 12:56

Instrument :
 MSVOA_D
 ClientSampleId :
 M-7A

Tot Ion:114 Resp: 69775
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 40.0
 88 21.2 0.0 38.8

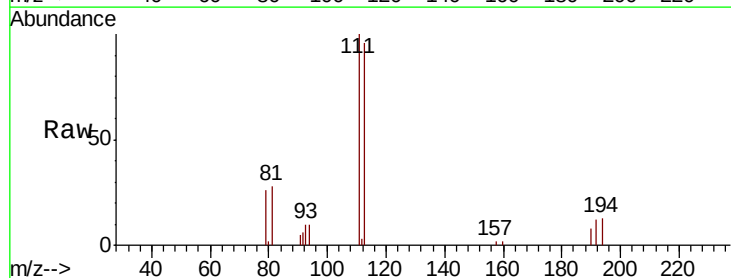


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

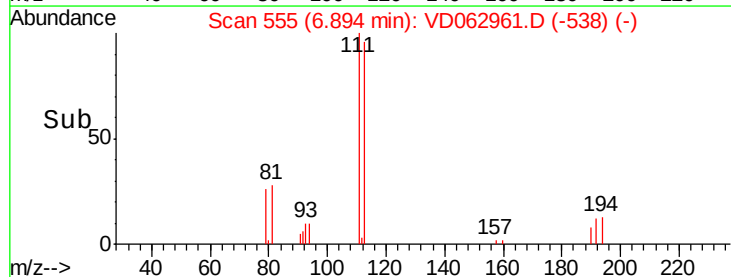
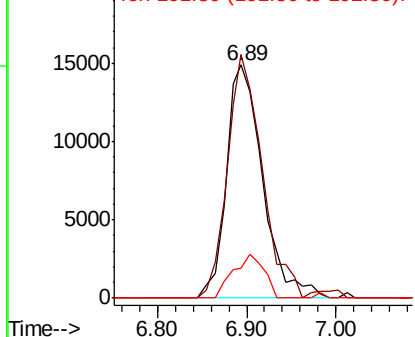


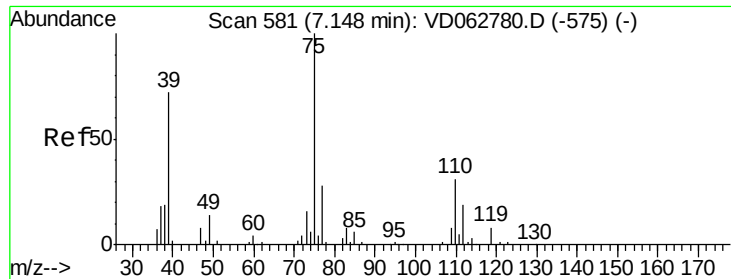
#35
 Dibromofluoromethane
 Concen: 71.977 ug/l
 RT: 6.89 min Scan# 555
 Delta R.T. -0.04 min
 Lab File: VD062961.D
 Acq: 28 Jun 2019 12:56

Tgt Ion:113 Resp: 42347
 Ion Ratio Lower Upper
 113 100
 111 104.5 81.2 121.8
 192 12.6 12.9 19.3#



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: 3.375 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.12 min

Lab File: VD062961.D

Acq: 28 Jun 2019 12:56

Instrument :

MSVOA_D

ClientSampleId :

M-7A

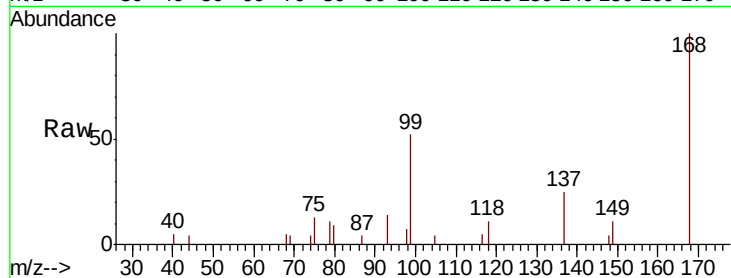
Tot Ion: 75 Resp: 2229

Ion Ratio Lower Upper

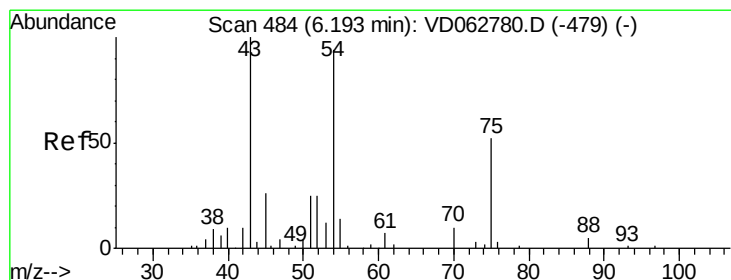
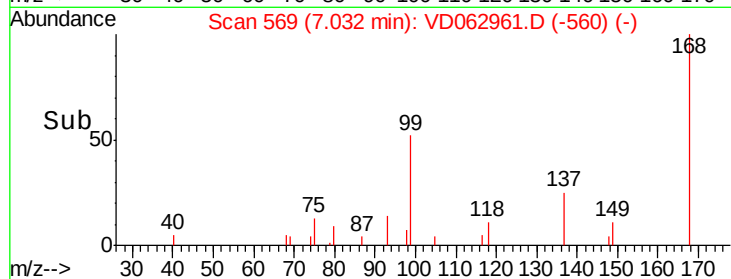
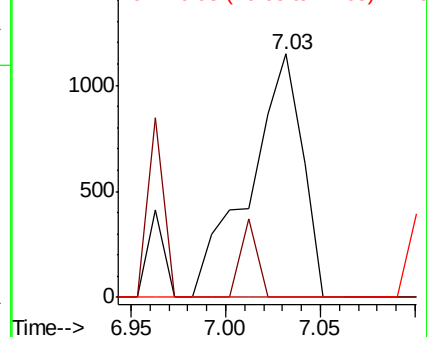
75 100

110 0.0 15.0 45.1#

77 0.0 22.2 33.2#



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: 12.999 ug/l

RT: 6.15 min Scan# 479

Delta R.T. -0.05 min

Lab File: VD062961.D

Acq: 28 Jun 2019 12:56

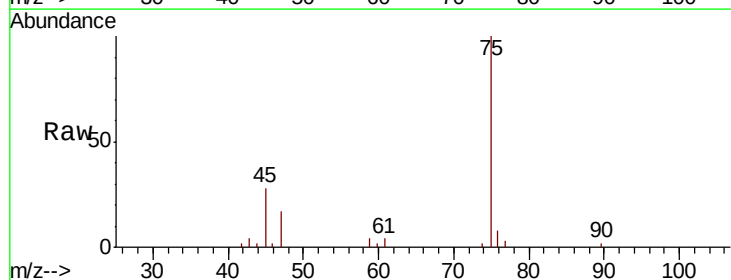
Tgt Ion: 43 Resp: 3833

Ion Ratio Lower Upper

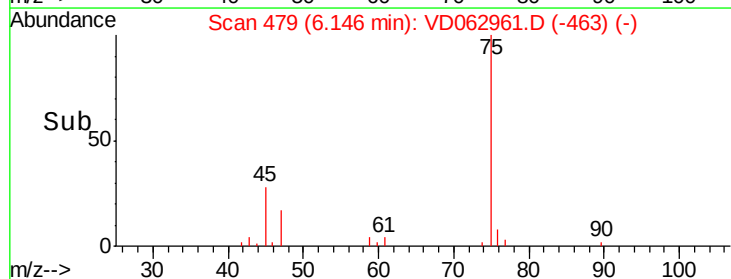
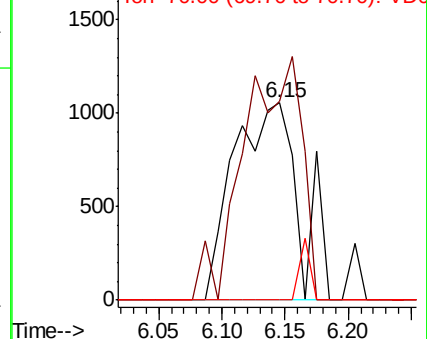
43 100

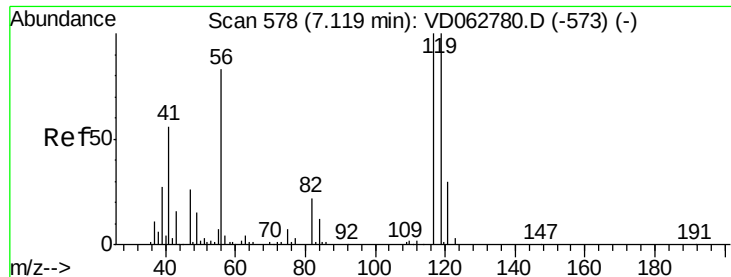
61 100.6 11.6 17.4#

70 0.0 6.4 9.6#



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: 2.951 ug/l

RT: 7.00 min Scan# 566

Delta R.T. -0.12 min

Lab File: VD062961.D

Acq: 28 Jun 2019 12:56

Instrument :

MSVOA_D

ClientSampleId :

M-7A

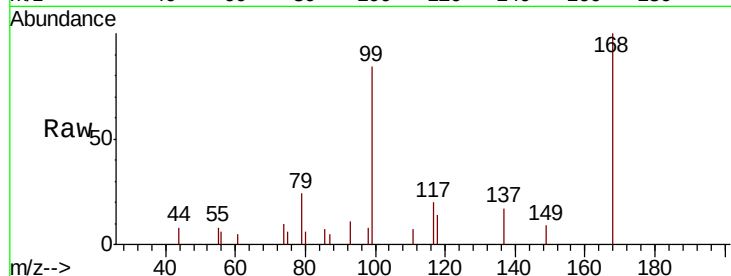
Tot Ion:117 Resp: 2932

Ion Ratio Lower Upper

117 100

119 0.0 75.4 113.2#

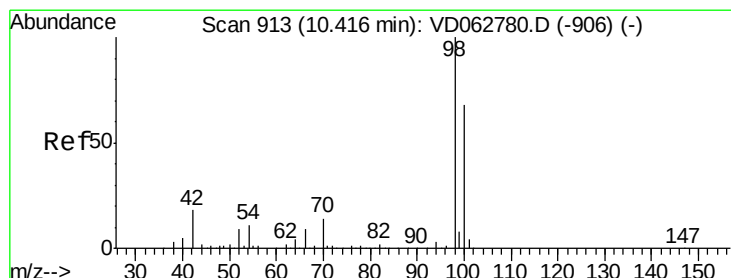
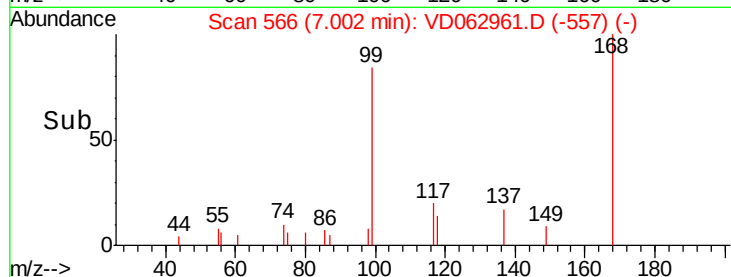
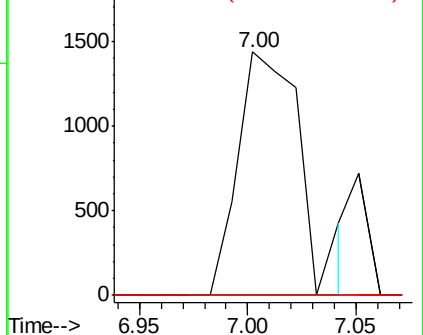
121 0.0 22.3 33.5#



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: 40.210 ug/l

RT: 10.39 min Scan# 910

Delta R.T. -0.03 min

Lab File: VD062961.D

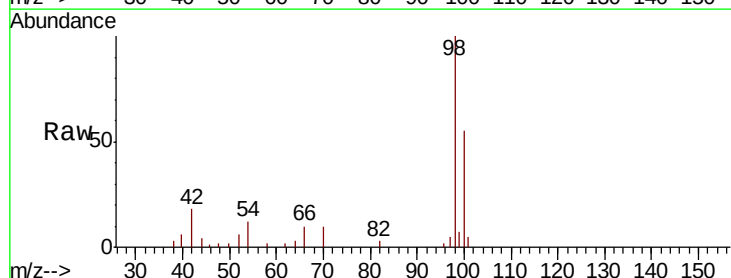
Acq: 28 Jun 2019 12:56

Tgt Ion: 98 Resp: 51489

Ion Ratio Lower Upper

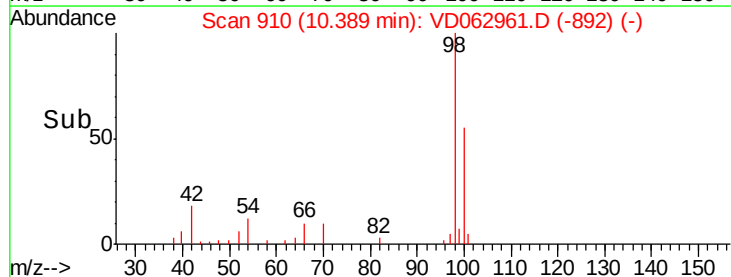
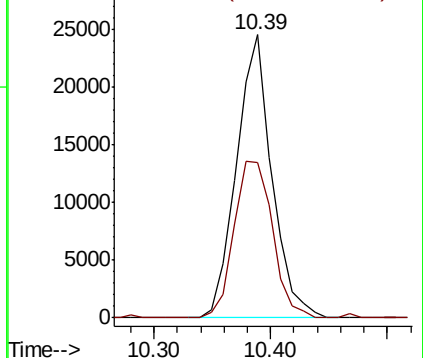
98 100

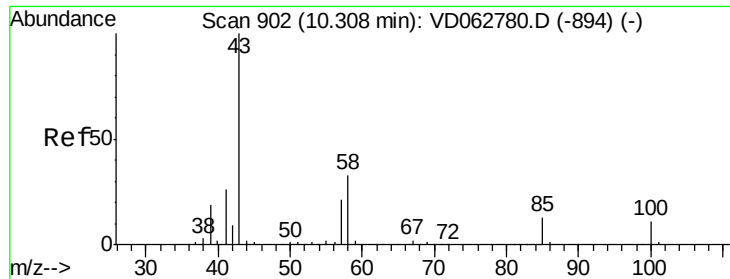
100 55.0 54.7 82.1



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 2.810 ug/l

RT: 10.27 min Scan# 898

Delta R.T. -0.04 min

Lab File: VD062961.D

Acq: 28 Jun 2019 12:56

Instrument :

MSVOA_D

ClientSampleId :

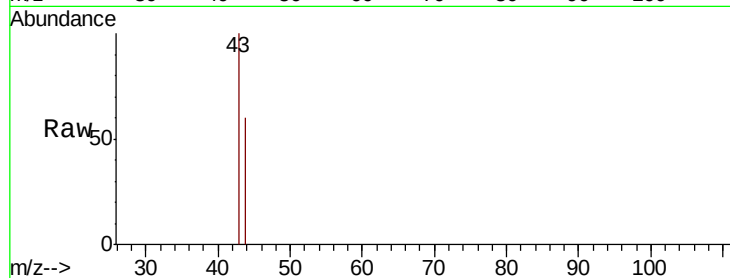
M-7A

Tot Ion: 43 Resp: 690

Ion Ratio Lower Upper

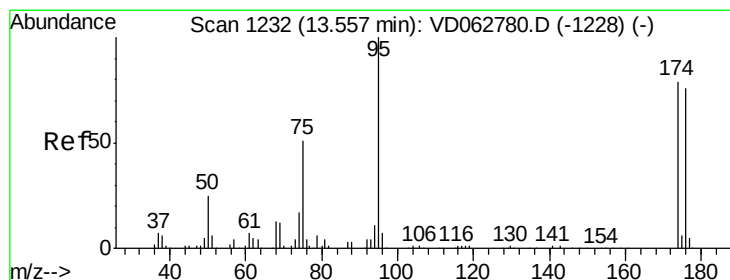
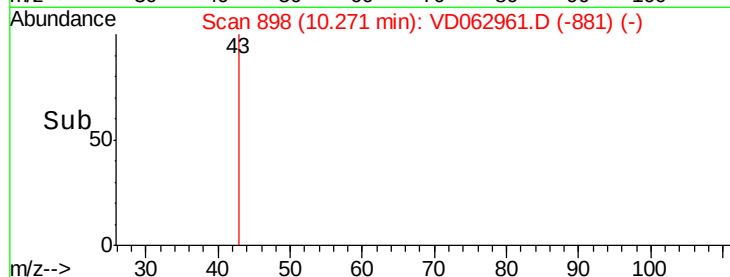
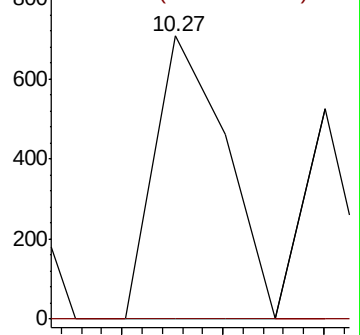
43 100

58 0.0 26.6 40.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: 72.251 ug/l

RT: 13.54 min Scan# 1230

Delta R.T. -0.02 min

Lab File: VD062961.D

Acq: 28 Jun 2019 12:56

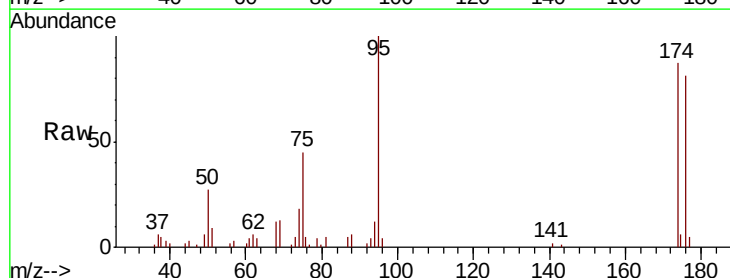
Tgt Ion: 95 Resp: 42068

Ion Ratio Lower Upper

95 100

174 86.9 0.0 158.0

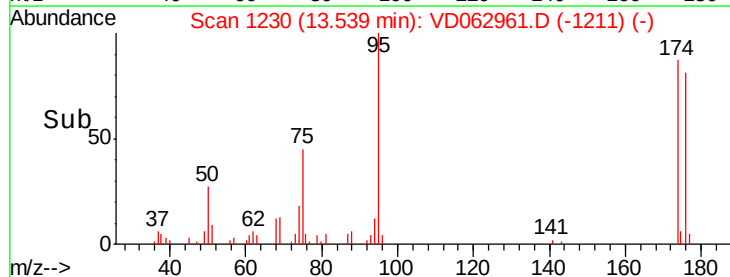
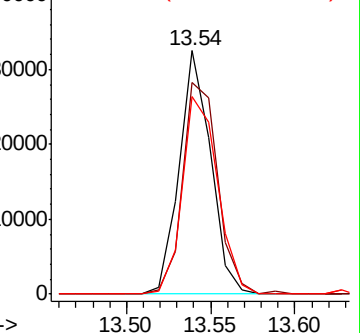
176 81.3 0.0 151.6

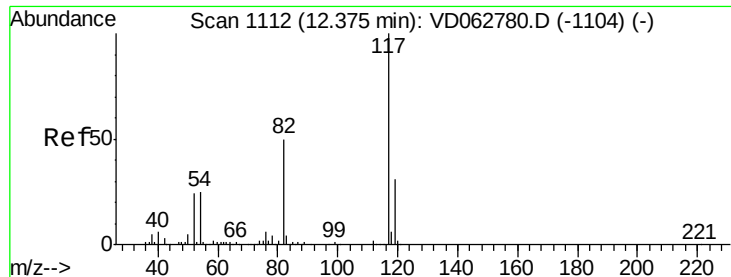


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

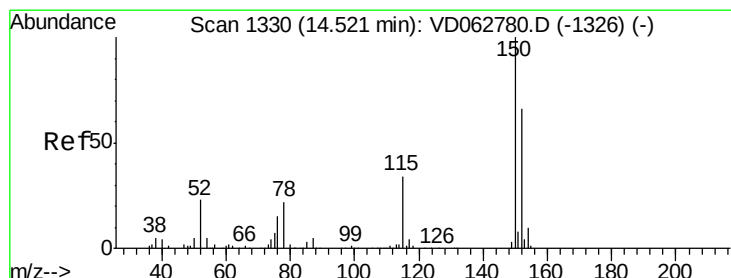
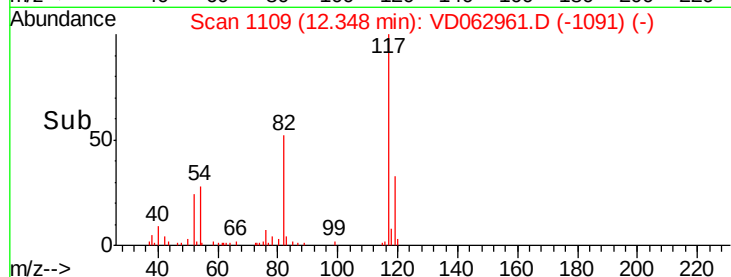
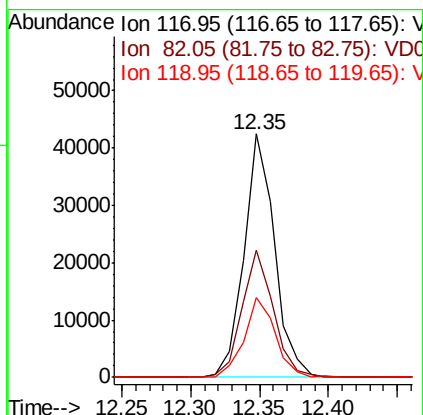
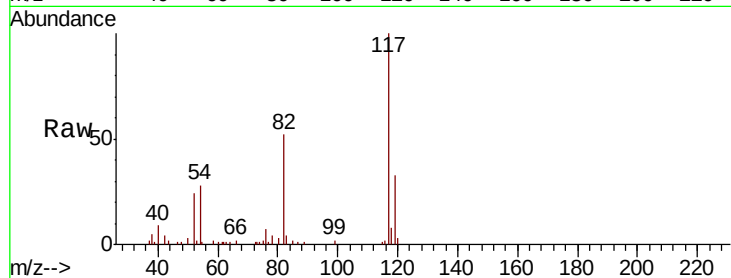




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1109
Delta R.T. -0.03 min
Lab File: VD062961.D
Acq: 28 Jun 2019 12:56

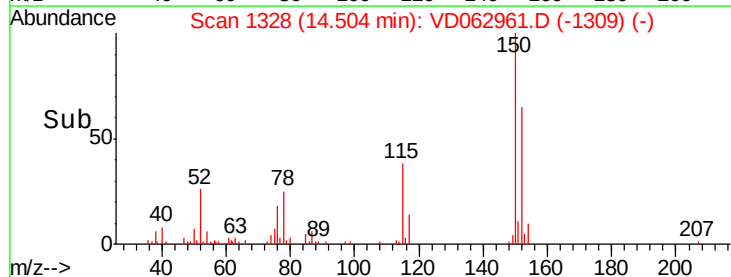
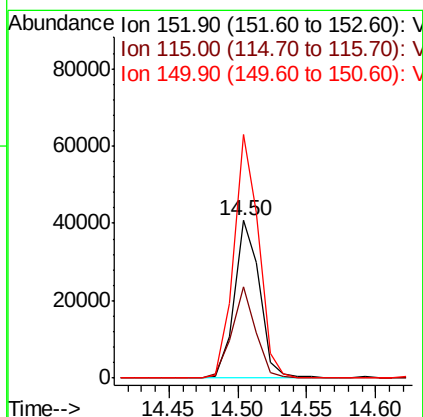
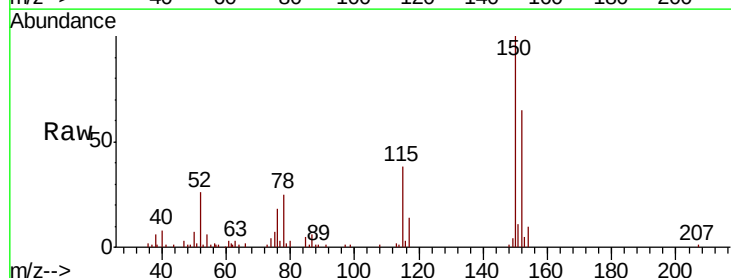
Instrument :
MSVOA_D
ClientSampled :
M-7A

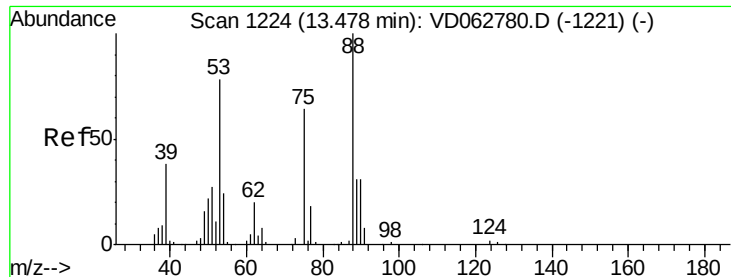
Tot Ion:117 Resp: 65835
Ion Ratio Lower Upper
117 100
82 52.4 40.4 60.6
119 33.0 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. -0.02 min
Lab File: VD062961.D
Acq: 28 Jun 2019 12:56

Tgt Ion:152 Resp: 51624
Ion Ratio Lower Upper
152 100
115 58.3 29.2 87.6
150 154.8 0.0 305.8





#81

trans-1,4-Dichloro-2-butene

Concen: 139.981 ug/l

RT: 13.54 min Scan# 1230

Delta R.T. 0.06 min

Lab File: VD062961.D

Acq: 28 Jun 2019 12:56

Instrument :

MSVOA_D

ClientSampleId :

M-7A

Tot Ion: 75 Resp: 21864

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

89 0.0 39.4 59.2#

