

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD041619\
 Data File : VD061842.D
 Acq On : 17 Apr 2019 8:22
 Operator : VA/AP
 Sample : K2423-15
 Misc : 5.77g/5ml/MSVOA_D/SOIL
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP4-B

Quant Time: Apr 17 12:28:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 08:53:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	397062	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.22	114	717338	50.00	ug/l	-0.04
63) Chlorobenzene-d5	12.37	117	625758	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.52	152	274934	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	172042	51.70	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	103.40%	
35) Dibromofluoromethane	6.93	113	254238	46.91	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	93.82%	
50) Toluene-d8	10.41	98	572102	44.55	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	89.10%	
62) 4-Bromofluorobenzene	13.56	95	227893	43.79	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	87.58%	

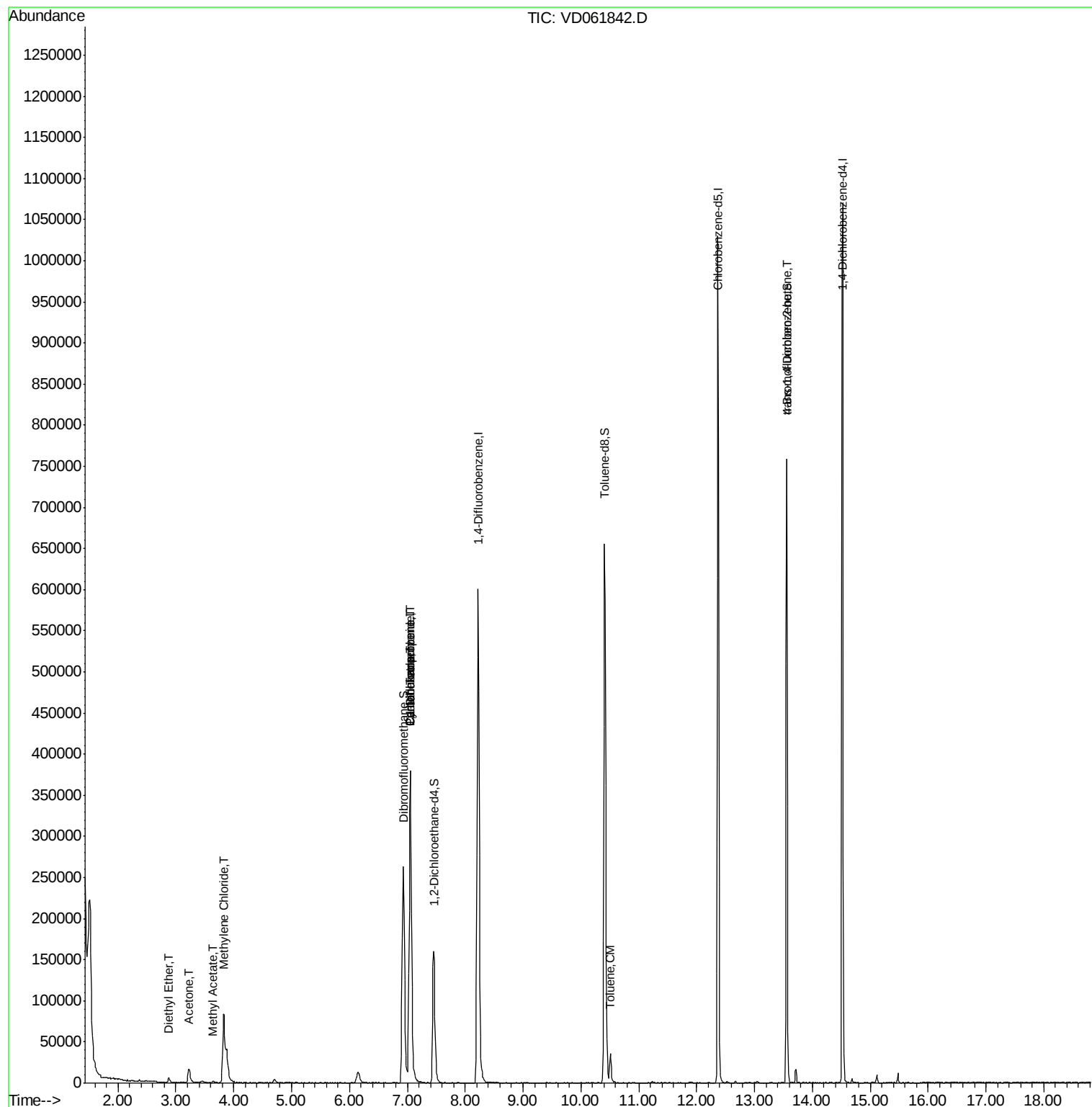
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	497	Below Cal	#	12
8) Diethyl Ether	2.88	74	2953	2.267	ug/l	71
16) Acetone	3.23	43	37526	45.754	ug/l #	89
18) Methyl Acetate	3.65	43	3718	2.262	ug/l #	53
20) Methylene Chloride	3.83	84	65928	12.755	ug/l	94
31) Cyclohexane	7.05	56	7855	1.559	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	30021	5.121	ug/l #	47
38) Carbon Tetrachloride	7.05	117	39846	5.383	ug/l #	15
52) Toluene	10.51	92	18778	2.082	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.56	75	90422	75.453	ug/l #	16

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD061842.D

Acq: 17 Apr 2019 8:22

Instrument :

MSVOA_D

ClientSampleId :

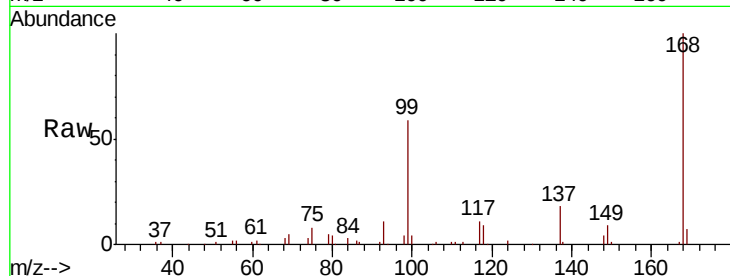
TP4-B

Tgt Ion:168 Resp: 397062

Ion Ratio Lower Upper

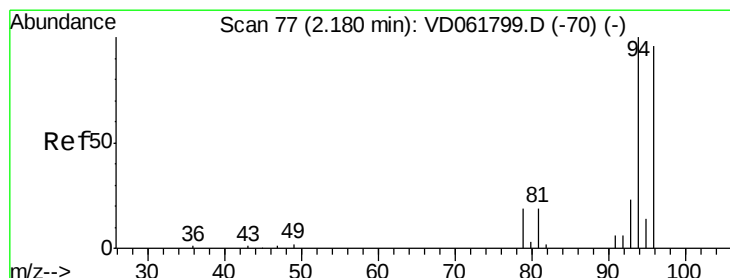
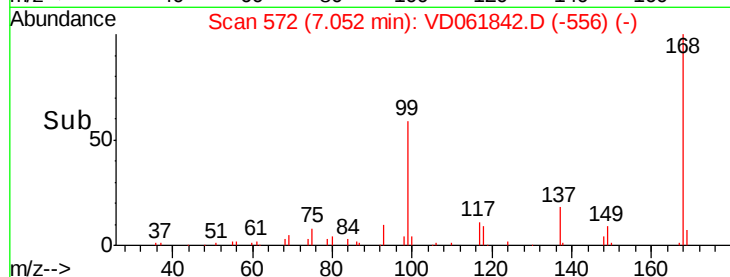
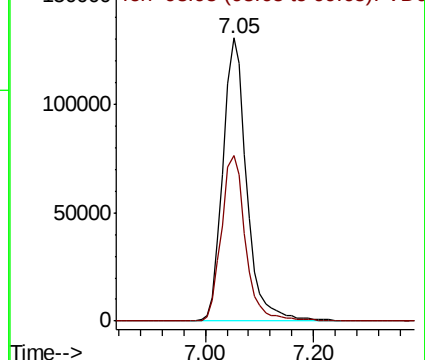
168 100

99 58.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.16 min Scan# 75

Delta R.T. -0.02 min

Lab File: VD061842.D

Acq: 17 Apr 2019 8:22

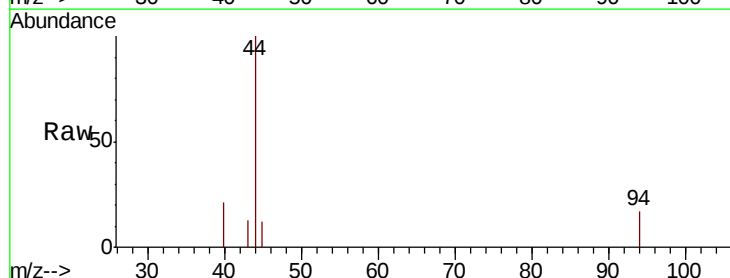
Tgt Ion: 94 Resp: 497

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

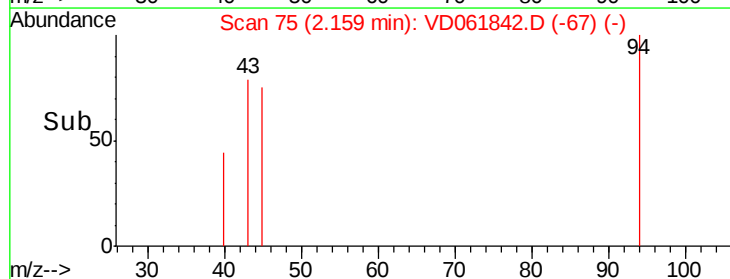
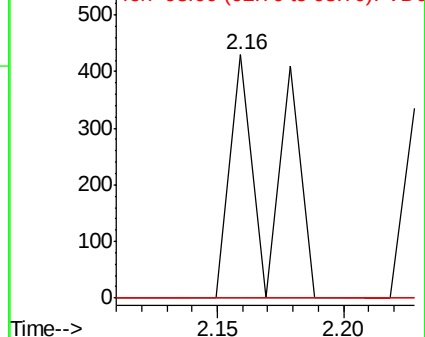
93 0.0 18.5 27.7#

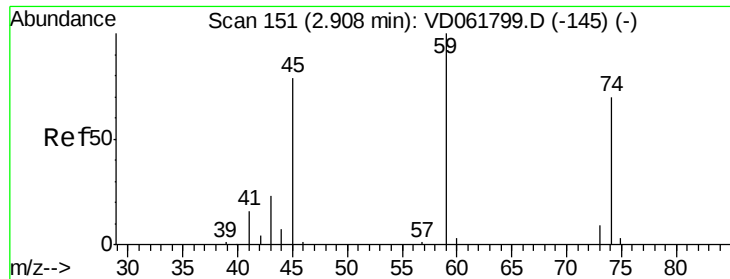


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#8

Diethyl Ether

Concen: 2.267 ug/l

RT: 2.88 min Scan# 148

Delta R.T. -0.03 min

Lab File: VD061842.D

Acq: 17 Apr 2019 8:22

Instrument :

MSVOA_D

ClientSampleId :

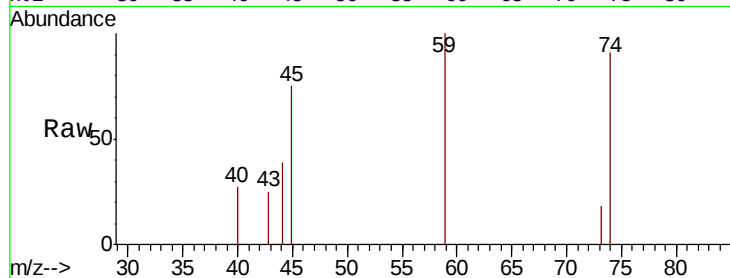
TP4-B

Tgt Ion: 74 Resp: 2953

Ion Ratio Lower Upper

74 100

45 82.8 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

2.88

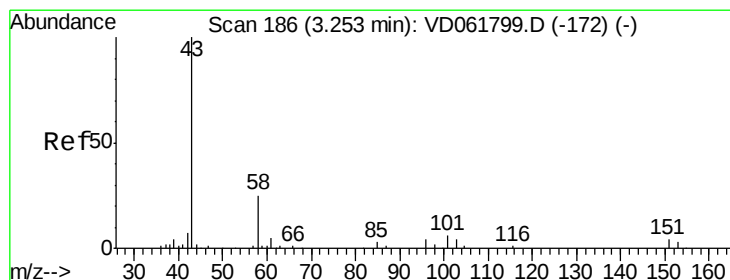
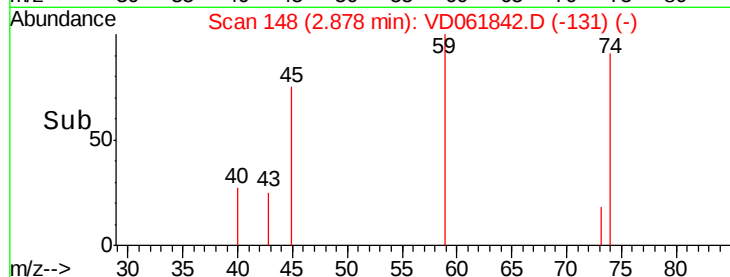
1500

1000

500

0

Time-->



#16

Acetone

Concen: 45.754 ug/l

RT: 3.23 min Scan# 184

Delta R.T. -0.02 min

Lab File: VD061842.D

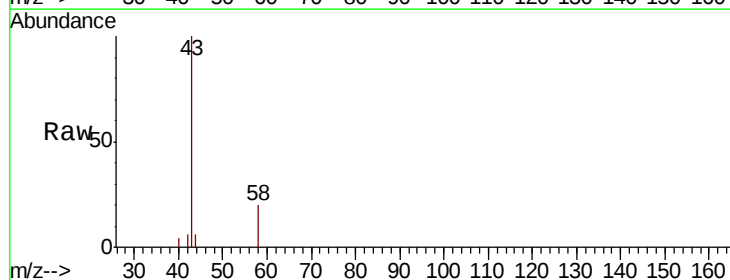
Acq: 17 Apr 2019 8:22

Tgt Ion: 43 Resp: 37526

Ion Ratio Lower Upper

43 100

58 19.6 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

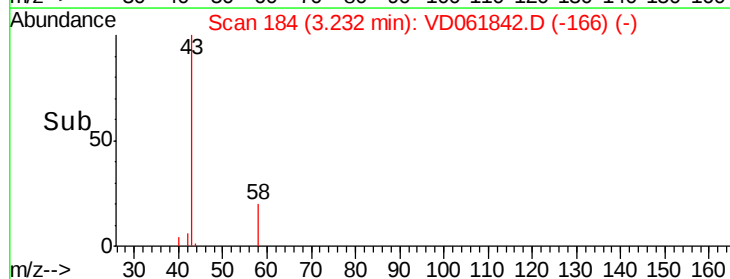
3.23

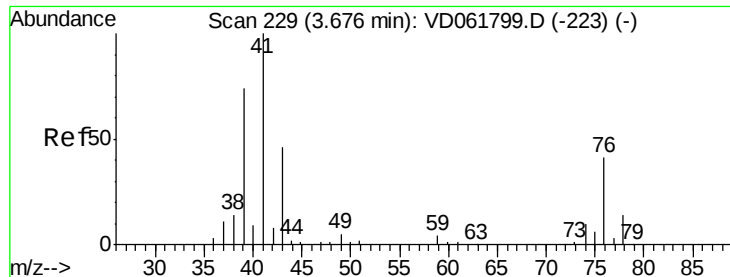
10000

5000

0

Time-->

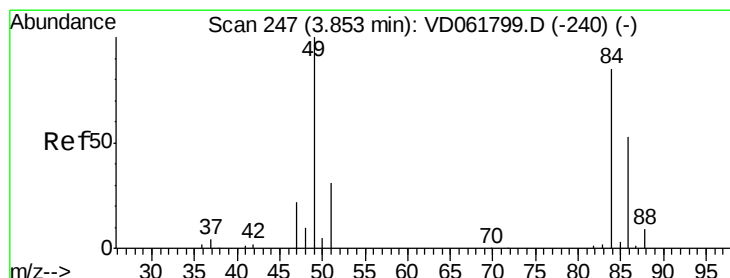
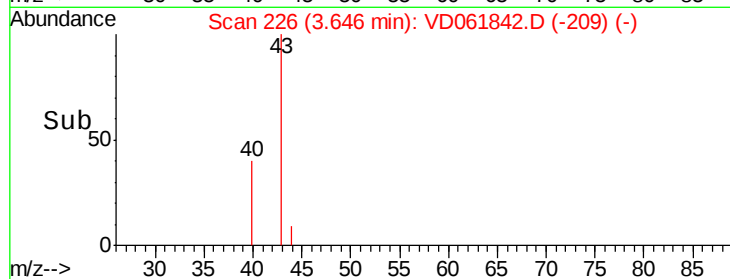
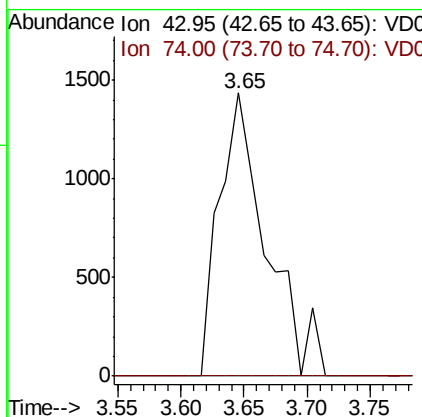
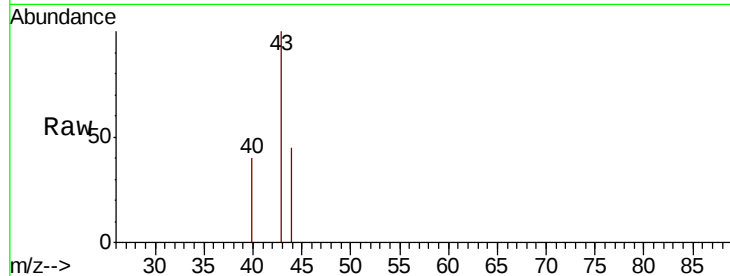




#18
Methyl Acetate
Concen: 2.262 ug/l
RT: 3.65 min Scan# 226
Delta R.T. -0.03 min
Lab File: VD061842.D
Acq: 17 Apr 2019 8:22

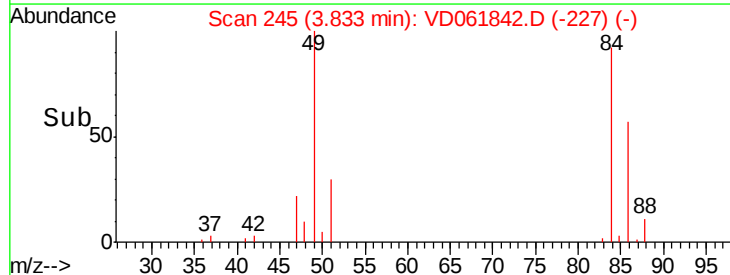
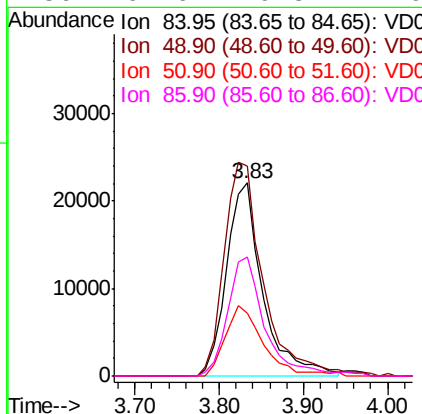
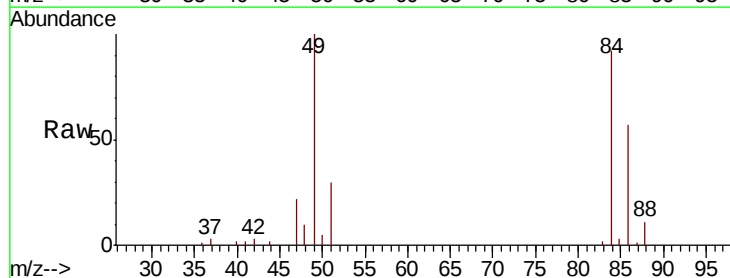
Instrument :
MSVOA_D
ClientSampleId :
TP4-B

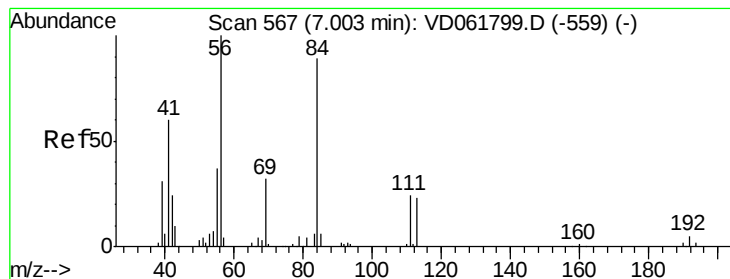
Tgt Ion: 43 Resp: 3718
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#20
Methylene Chloride
Concen: 12.755 ug/l
RT: 3.83 min Scan# 245
Delta R.T. -0.02 min
Lab File: VD061842.D
Acq: 17 Apr 2019 8:22

Tgt Ion: 84 Resp: 65928
Ion Ratio Lower Upper
84 100
49 108.7 94.0 141.0
51 32.2 29.0 43.4
86 61.6 49.8 74.6





#31

Cyclohexane

Concen: 1.559 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.05 min

Lab File: VD061842.D

Acq: 17 Apr 2019 8:22

Instrument :

MSVOA_D

ClientSampleId :

TP4-B

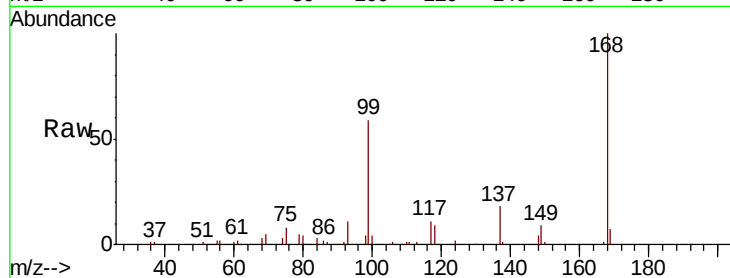
Tgt Ion: 56 Resp: 7855

Ion Ratio Lower Upper

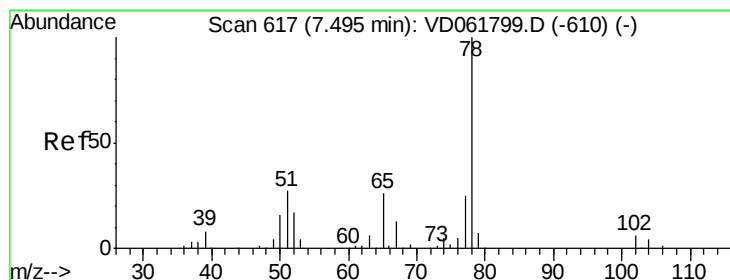
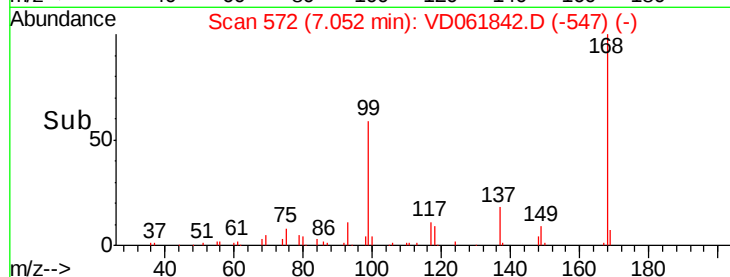
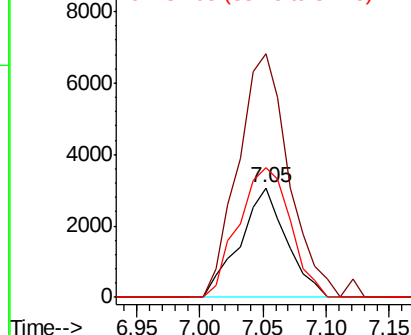
56 100

69 222.9 25.8 38.6#

84 118.8 72.2 108.4#



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: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.04 min

Lab File: VD061842.D

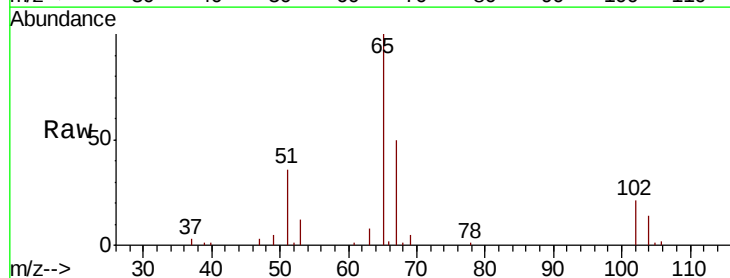
Acq: 17 Apr 2019 8:22

Tgt Ion: 65 Resp: 172042

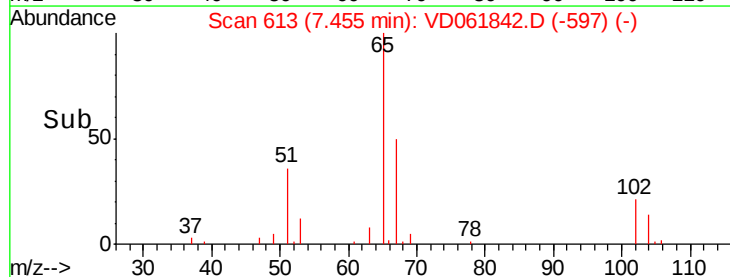
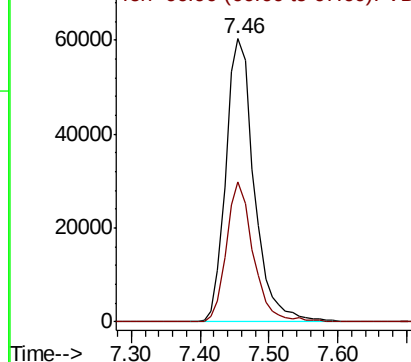
Ion Ratio Lower Upper

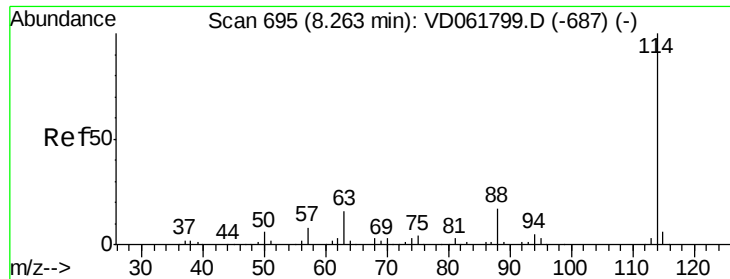
65 100

67 49.5 0.0 98.0



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

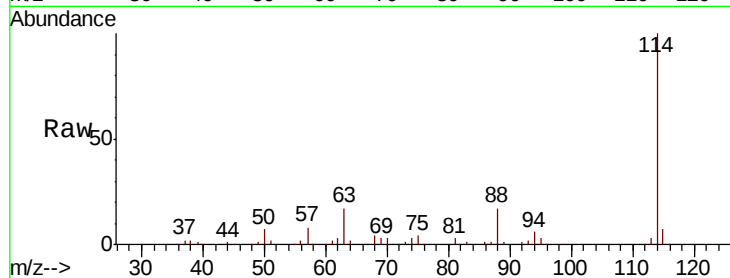




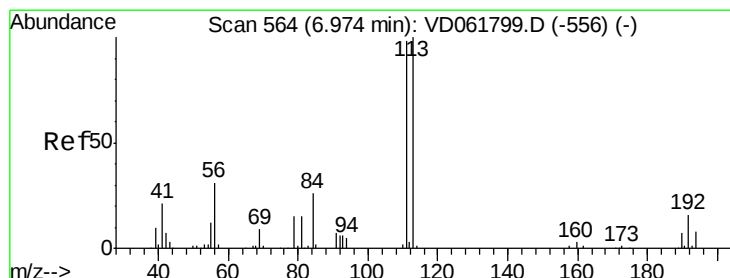
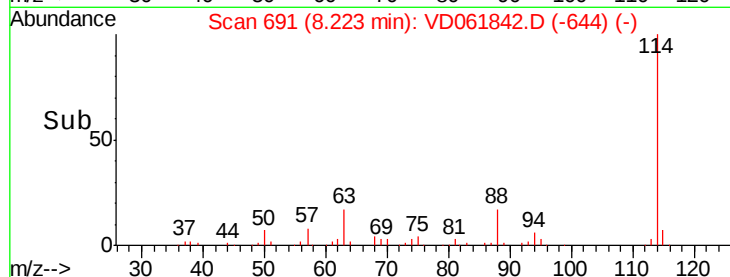
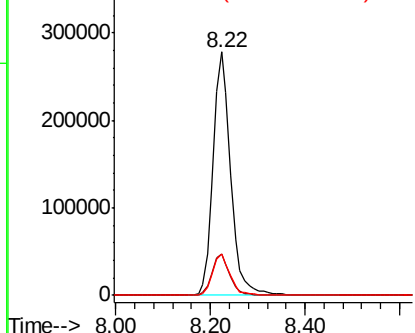
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 691
 Delta R.T. -0.04 min
 Lab File: VD061842.D
 Acq: 17 Apr 2019 8:22

Instrument :
 MSVOA_D
 ClientSampleId :
 TP4-B

Tgt Ion:114 Resp: 717338
 Ion Ratio Lower Upper
 114 100
 63 16.8 0.0 32.4
 88 17.1 0.0 33.6

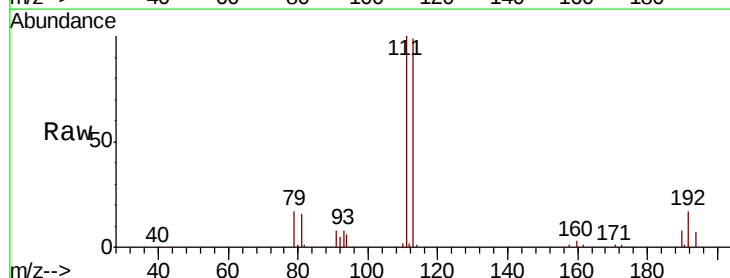


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

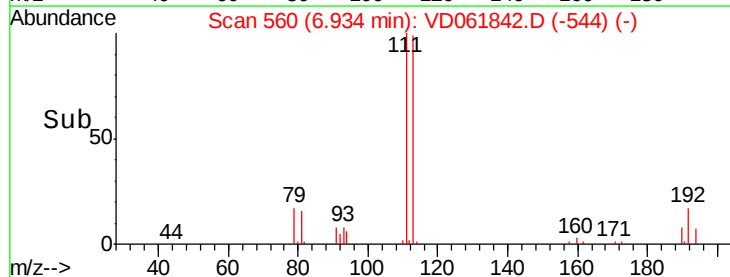
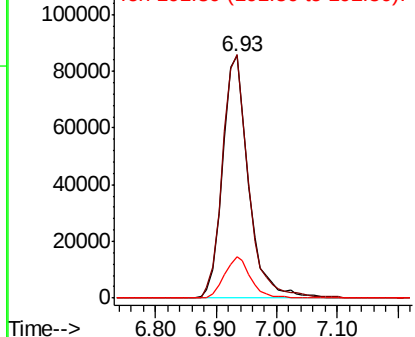


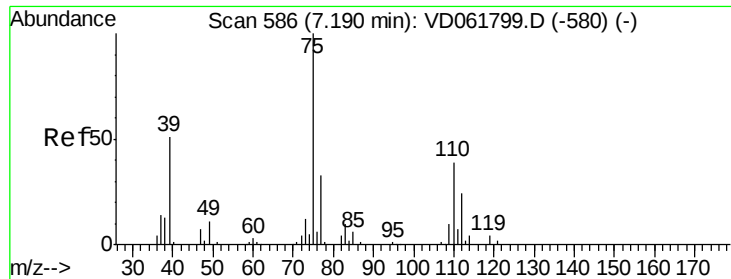
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 560
 Delta R.T. -0.04 min
 Lab File: VD061842.D
 Acq: 17 Apr 2019 8:22

Tgt Ion:113 Resp: 254238
 Ion Ratio Lower Upper
 113 100
 111 100.6 78.5 117.7
 192 16.8 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

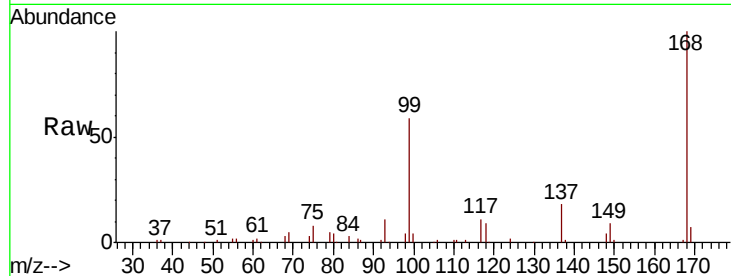




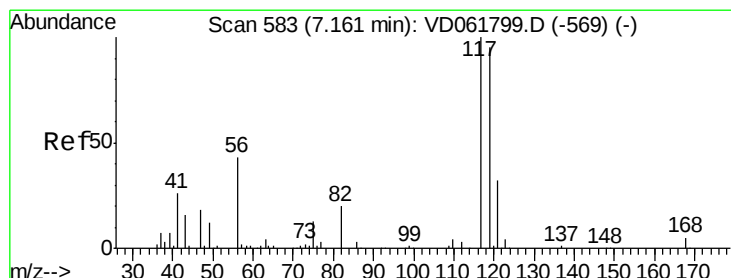
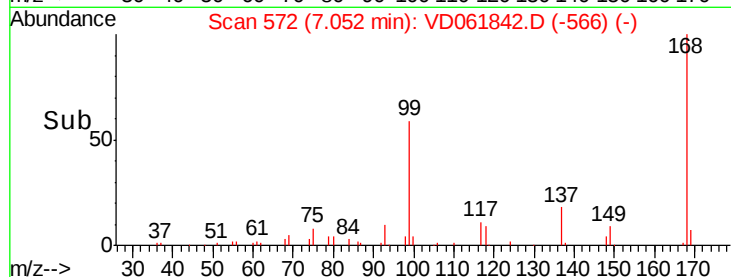
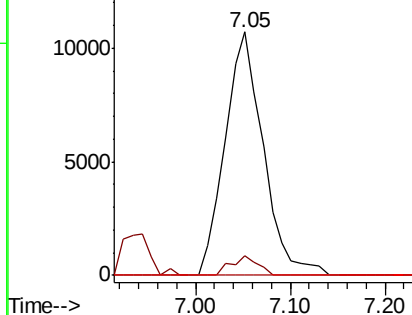
#36
 1,1-Dichloropropene
 Concen: 5.121 ug/l
 RT: 7.05 min Scan# 572
 Delta R.T. -0.14 min
 Lab File: VD061842.D
 Acq: 17 Apr 2019 8:22

Instrument :
 MSVOA_D
 ClientSampleId :
 TP4-B

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	19.1	57.1#
77	0.0	25.6	38.4#

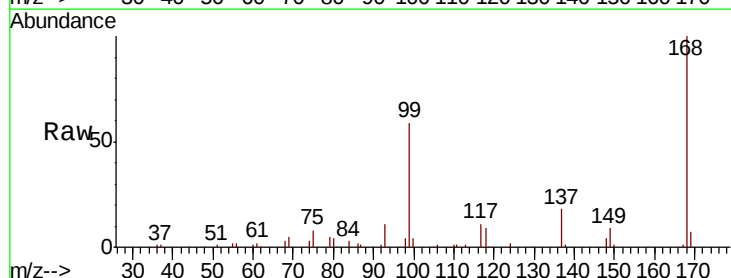


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

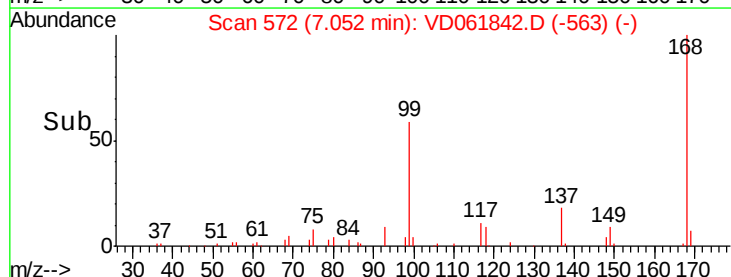
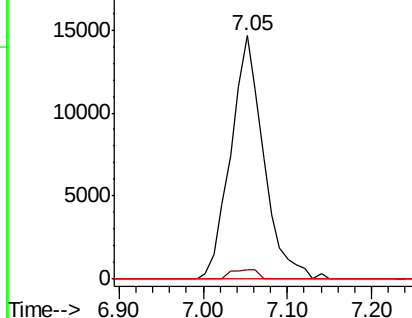


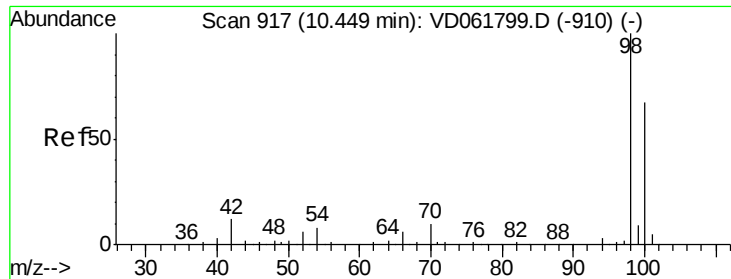
#38
 Carbon Tetrachloride
 Concen: 5.383 ug/l
 RT: 7.05 min Scan# 572
 Delta R.T. -0.11 min
 Lab File: VD061842.D
 Acq: 17 Apr 2019 8:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.8	75.8	113.8#
121	0.0	25.9	38.9#



Abundance Ion 116.85 (116.55 to 117.55): VDC
 Ion 118.85 (118.55 to 119.55): VDC
 Ion 120.85 (120.55 to 121.55): VDC

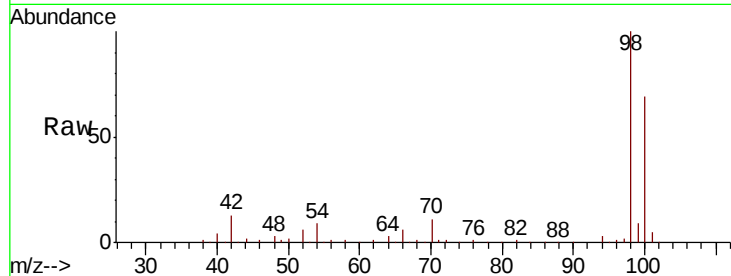




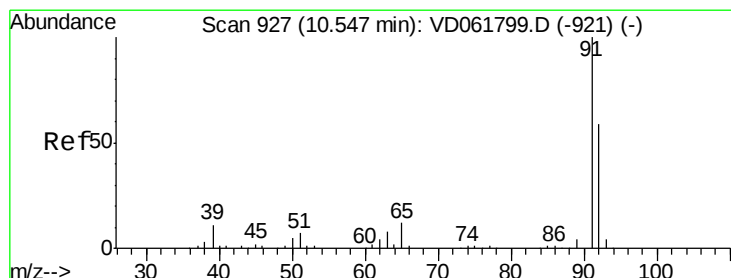
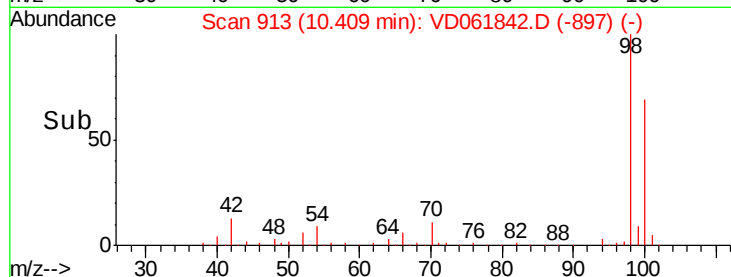
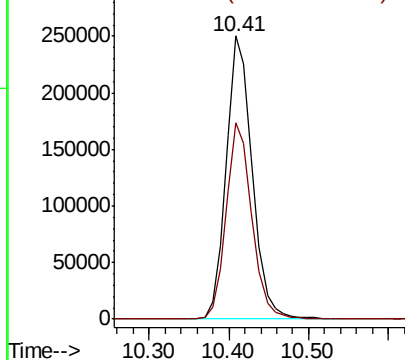
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.04 min
Lab File: VD061842.D
Acq: 17 Apr 2019 8:22

Instrument :
MSVOA_D
ClientSampleID :
TP4-B

Tgt Ion: 98 Resp: 572102
Ion Ratio Lower Upper
98 100
100 69.4 53.8 80.8

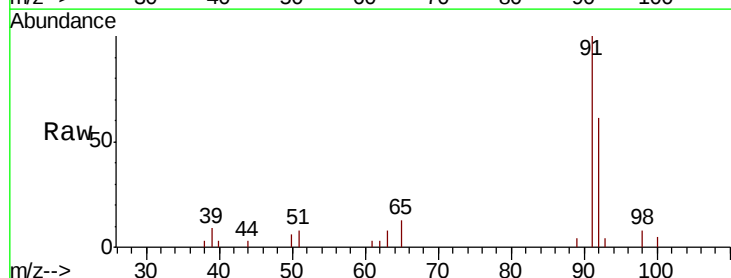


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

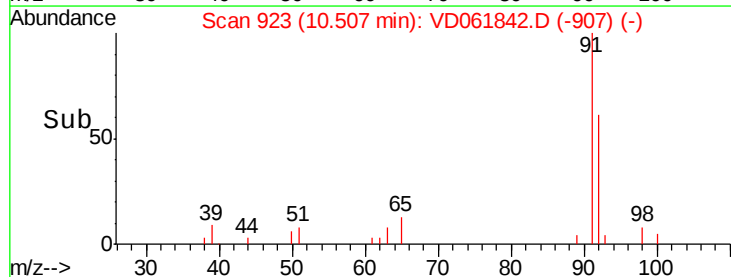
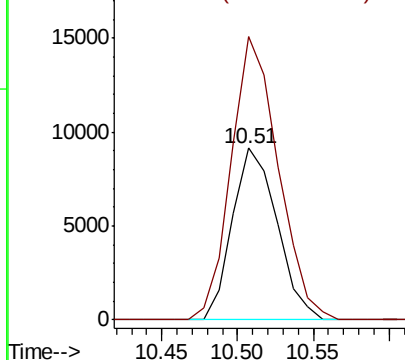


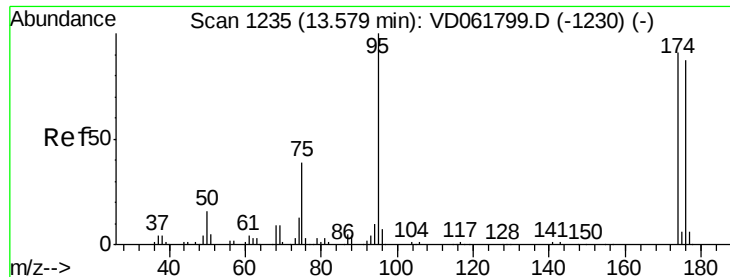
#52
Toluene
Concen: 2.082 ug/l
RT: 10.51 min Scan# 923
Delta R.T. -0.04 min
Lab File: VD061842.D
Acq: 17 Apr 2019 8:22

Tgt Ion: 92 Resp: 18778
Ion Ratio Lower Upper
92 100
91 164.7 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.02 min

Lab File: VD061842.D

Acq: 17 Apr 2019 8:22

Instrument :

MSVOA_D

ClientSampleId :

TP4-B

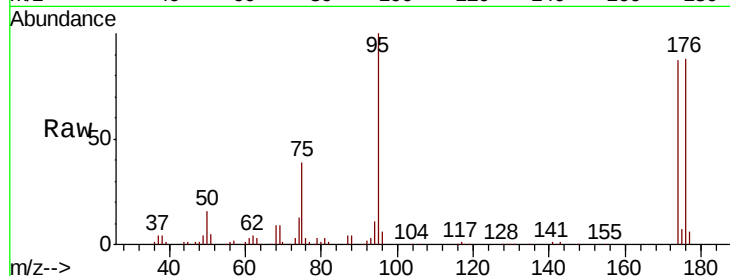
Tgt Ion: 95 Resp: 227893

Ion Ratio Lower Upper

95 100

174 87.0 0.0 181.8

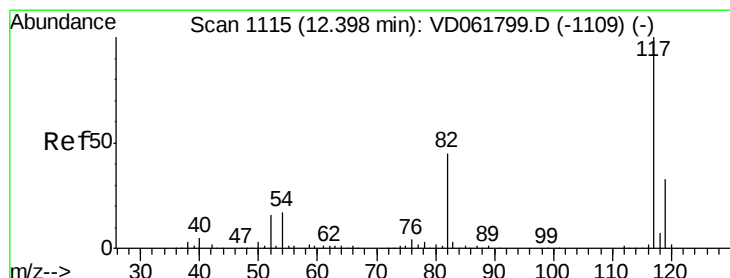
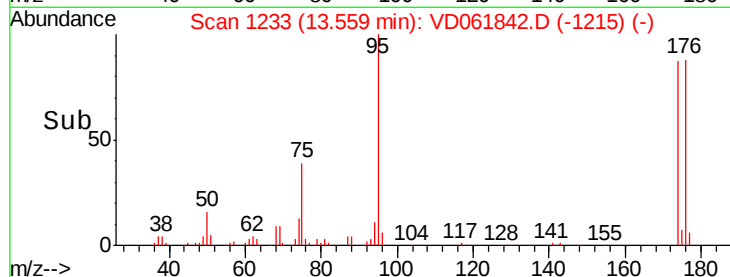
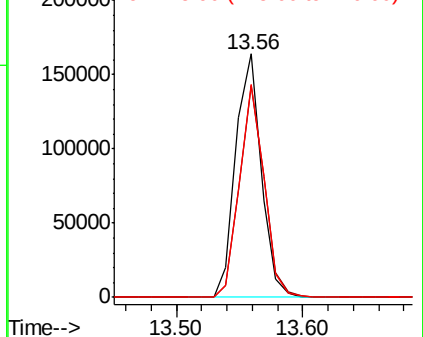
176 87.6 0.0 174.4



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: 12.37 min Scan# 1112

Delta R.T. -0.03 min

Lab File: VD061842.D

Acq: 17 Apr 2019 8:22

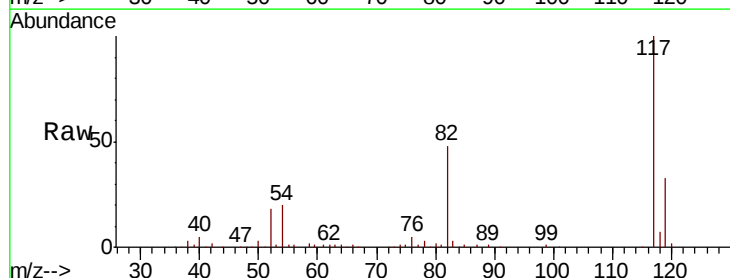
Tgt Ion: 117 Resp: 625758

Ion Ratio Lower Upper

117 100

82 48.1 36.2 54.2

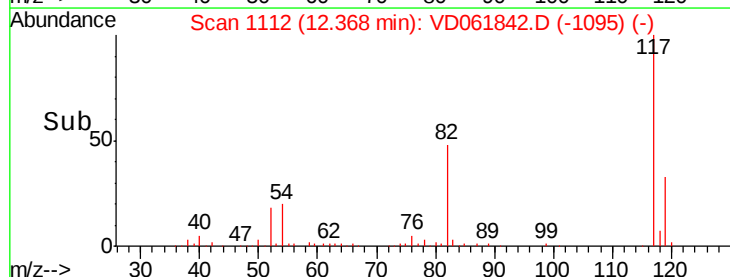
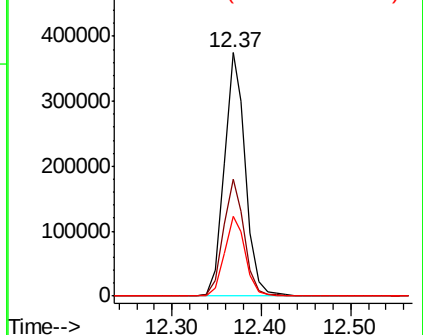
119 32.8 26.2 39.4

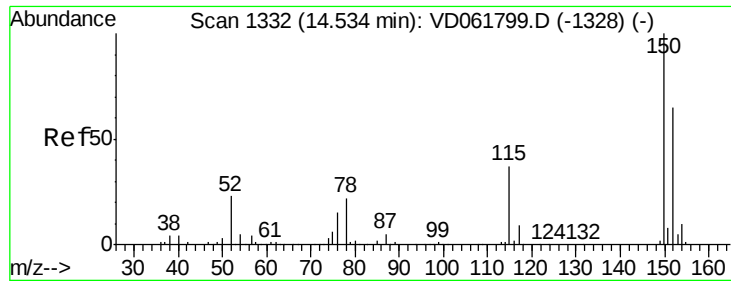


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. -0.01 min

Lab File: VD061842.D

Acq: 17 Apr 2019 8:22

Instrument :

MSVOA_D

ClientSampleId :

TP4-B

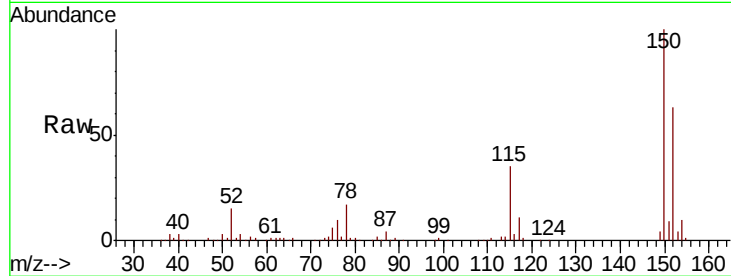
Tgt Ion: 152 Resp: 274934

Ion Ratio Lower Upper

152 100

115 55.5 30.9 92.7

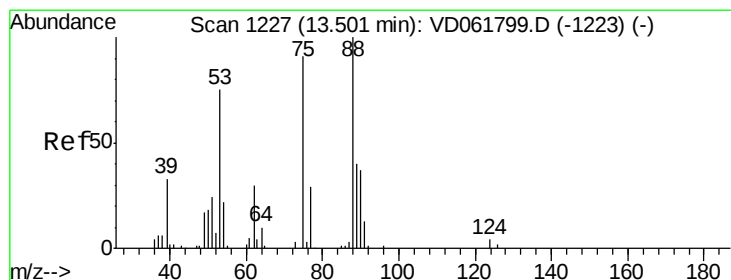
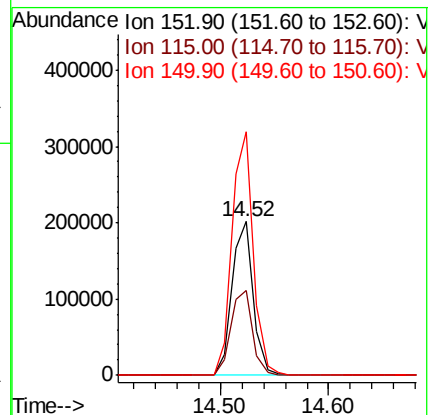
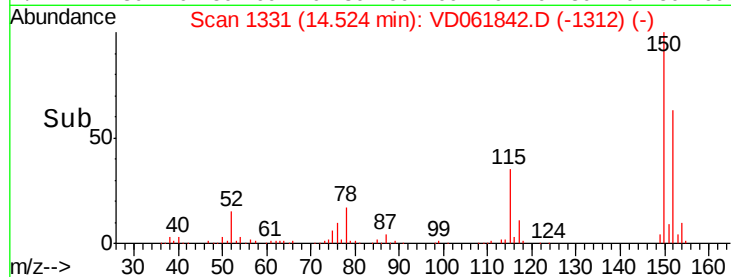
150 158.3 0.0 314.8



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



#81

trans-1,4-Dichloro-2-butene

Concen: 75.453 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.06 min

Lab File: VD061842.D

Acq: 17 Apr 2019 8:22

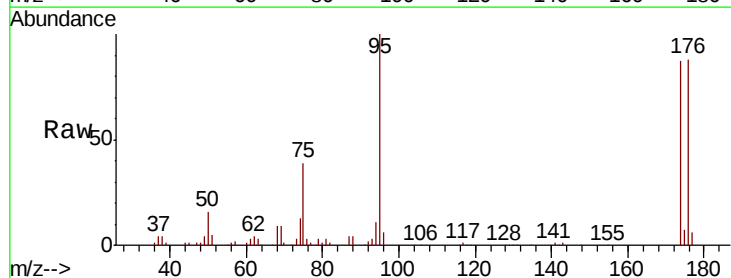
Tgt Ion: 75 Resp: 90422

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

