

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092018\
 Data File : VD060062.D
 Acq On : 20 Sep 2018 21:54
 Operator : VA/AP
 Sample : J5017-10
 Misc : 5.07/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-N-WW-062

Quant Time: Sep 21 01:03:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	1007374	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.42	114	1383137	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.27	117	942124	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	338573	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.76	65	347909	44.29	ug/l	0.00
Spiked Amount			Recovery	=	88.58%	
35) Dibromofluoromethane	6.30	113	472531	43.73	ug/l	0.00
Spiked Amount			Recovery	=	87.46%	
50) Toluene-d8	9.43	98	1143277	38.18	ug/l	0.00
Spiked Amount			Recovery	=	76.36%	
62) 4-Bromofluorobenzene	12.42	95	345734	30.22	ug/l	0.00
Spiked Amount			Recovery	=	60.44%	

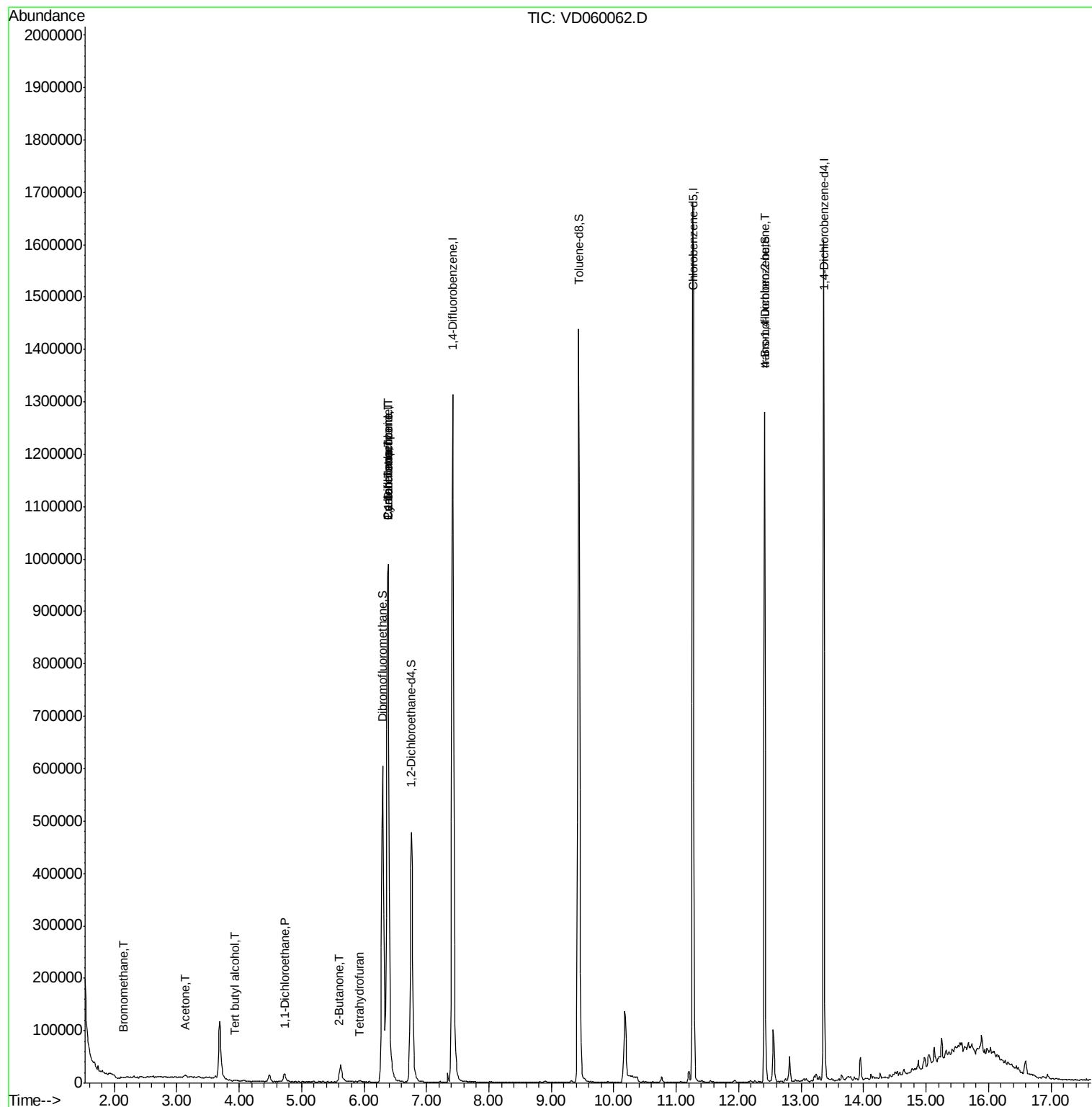
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	1100	1.23	ug/l #	54
11) Tert butyl alcohol	3.93	59	2092	3.30	ug/l #	74
16) Acetone	3.13	43	14906	9.83	ug/l	96
20) Methylene Chloride	3.69	84	66234	Below Cal		96
24) 1,1-Dichloroethane	4.73	63	23399	1.31	ug/l #	93
25) 2-Butanone	5.60	43	5684	1.39	ug/l #	61
29) Tetrahydrofuran	5.92	42	2950	1.34	ug/l #	41
31) Cyclohexane	6.37	56	23753	1.36	ug/l #	1
36) 1,1-Dichloropropene	6.37	75	71975	5.24	ug/l #	45
38) Carbon Tetrachloride	6.38	117	76655	5.98	ug/l #	15
51) 4-Methyl-2-Pentanone	9.33	43	4230	Below Cal	#	85
59) 2-Hexanone	10.47	43	2114	Below Cal		86
81) trans-1,4-Dichloro-2-buten	12.42	75	140470	89.99	ug/l #	15
89) n-Butylbenzene	13.64	91	1148	Below Cal	#	80
91) 1,2-Dichlorobenzene	13.65	146	1434	Below Cal		89

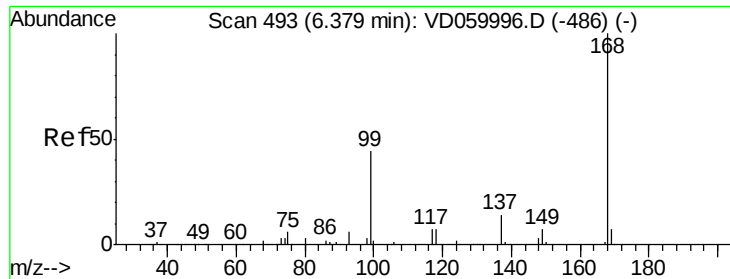
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.38 min Scan# 494

Delta R.T. 0.00 min

Lab File: VD060062.D

Acq: 20 Sep 2018 21:54

Instrument :

MSVOA_D

ClientSampleId :

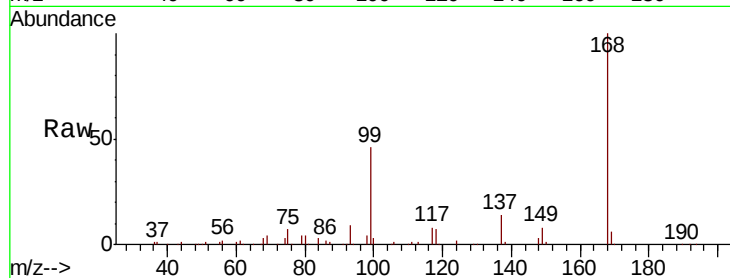
RA-091918-N-WW-062

Tot Ion:168 Resp: 1007374

Ion Ratio Lower Upper

168 100

99 45.7 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.38

400000

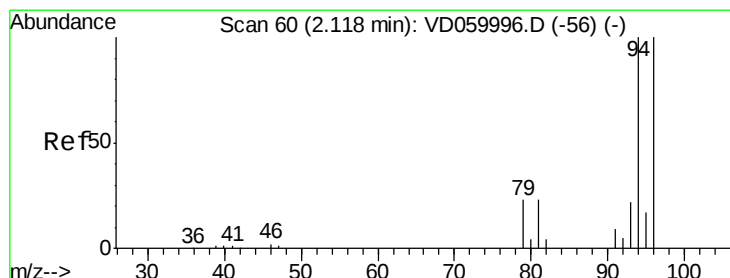
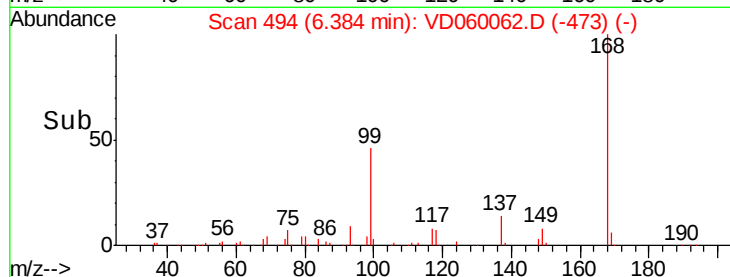
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 1.23 ug/l

RT: 2.14 min Scan# 63

Delta R.T. 0.02 min

Lab File: VD060062.D

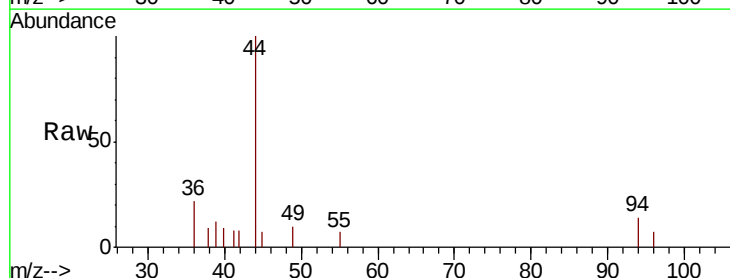
Acq: 20 Sep 2018 21:54

Tgt Ion: 94 Resp: 1100

Ion Ratio Lower Upper

94 100

96 54.3 79.8 119.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.14

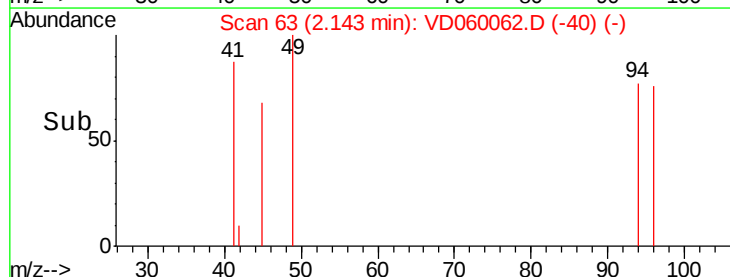
600

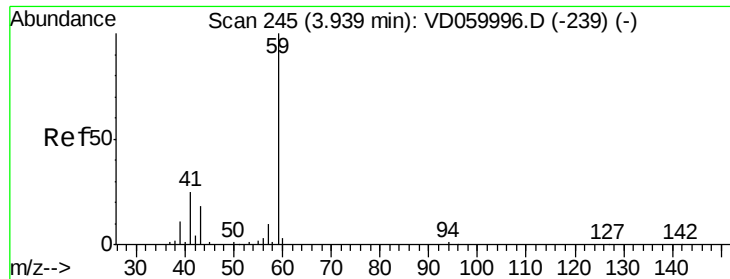
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200

0

Time-->

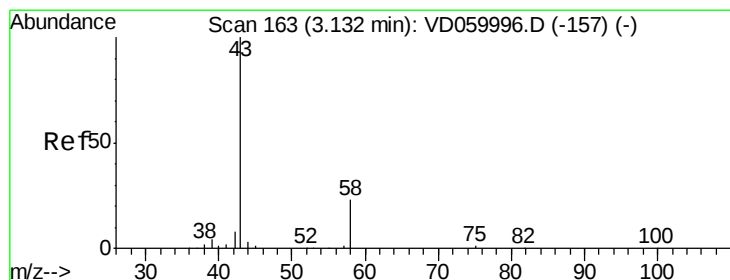
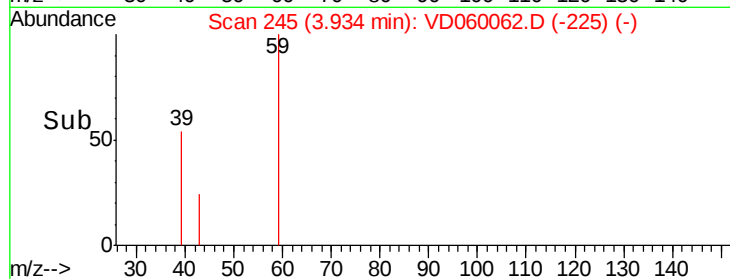
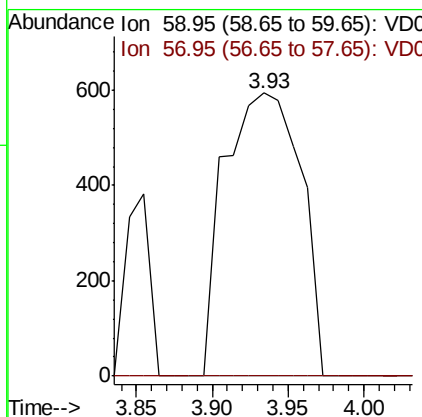
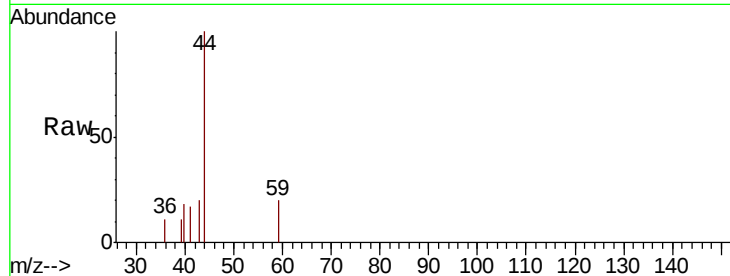




#11
Tert butyl alcohol
Concen: 3.30 ug/l
RT: 3.93 min Scan# 245
Delta R.T. -0.00 min
Lab File: VD060062.D
Acq: 20 Sep 2018 21:54

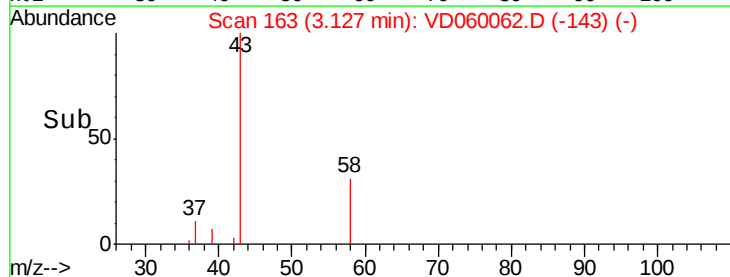
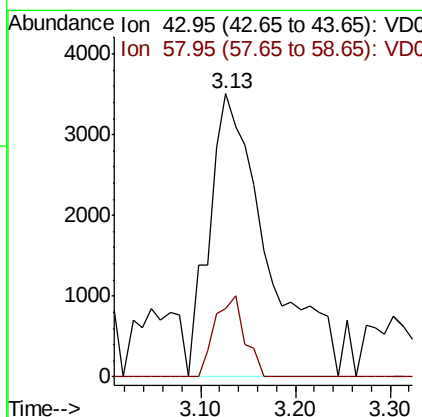
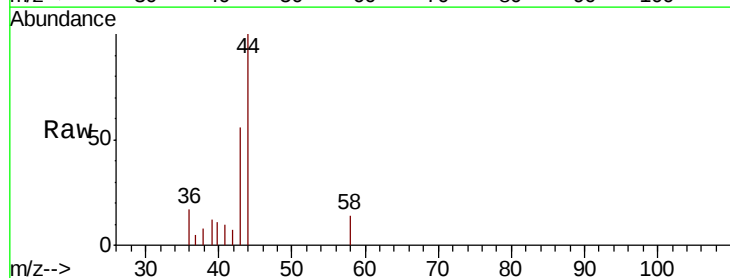
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RA-091918-N-WW-062

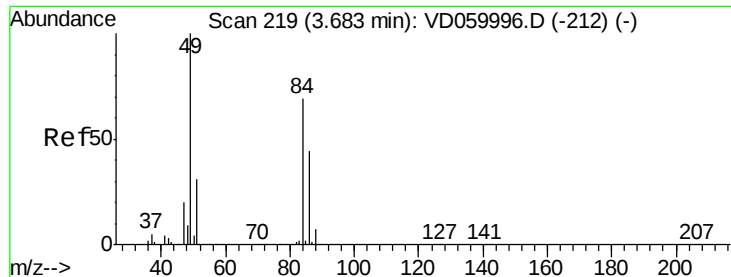
Tot Ion: 59 Resp: 2092
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#



#16
Acetone
Concen: 9.83 ug/l
RT: 3.13 min Scan# 163
Delta R.T. -0.00 min
Lab File: VD060062.D
Acq: 20 Sep 2018 21:54

Tgt Ion: 43 Resp: 14906
Ion Ratio Lower Upper
43 100
58 24.3 18.1 27.1

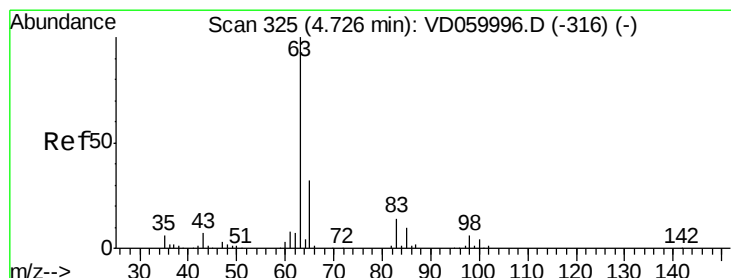
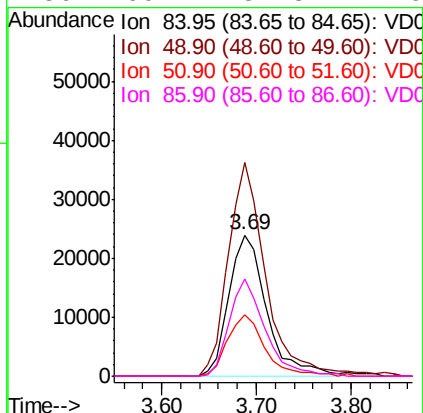
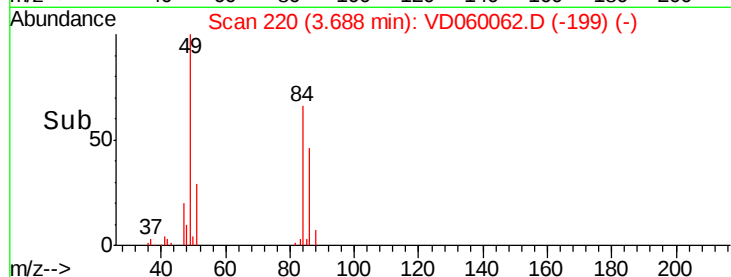
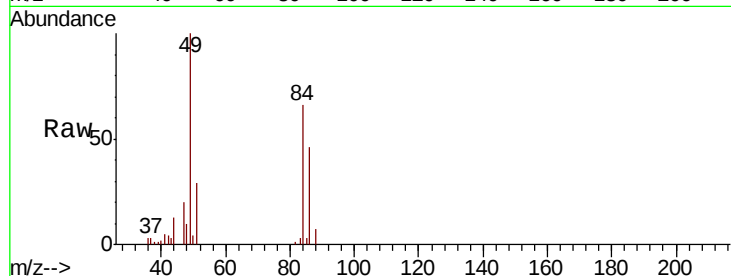




#20
Methylene Chloride
Concen: Below Cal
RT: 3.69 min Scan# 220
Delta R.T. 0.01 min
Lab File: VD060062.D
Acq: 20 Sep 2018 21:54

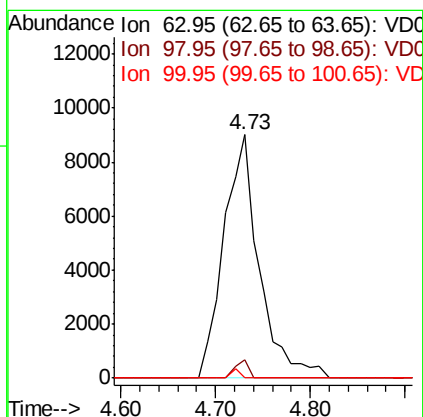
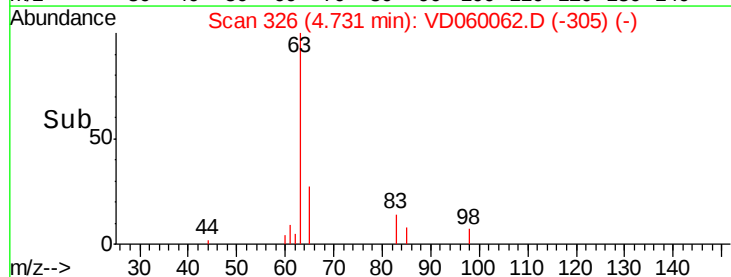
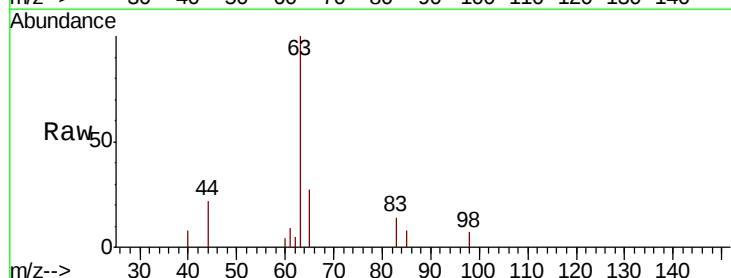
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-N-WW-062

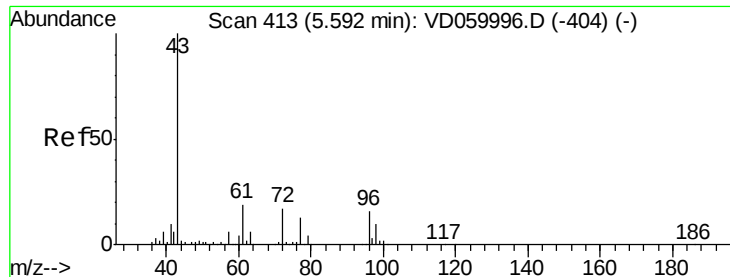
Tot Ion: 84 Resp: 66234
Ion Ratio Lower Upper
84 100
49 151.2 116.6 175.0
51 43.8 35.9 53.9
86 69.2 51.8 77.6



#24
1,1-Dichloroethane
Concen: 1.31 ug/l
RT: 4.73 min Scan# 326
Delta R.T. 0.01 min
Lab File: VD060062.D
Acq: 20 Sep 2018 21:54

Tgt Ion: 63 Resp: 23399
Ion Ratio Lower Upper
63 100
98 7.3 2.9 8.6
100 0.0 1.8 5.4#





#25

2-Butanone

Concen: 1.39 ug/l

RT: 5.60 min Scan# 414

Delta R.T. 0.01 min

Lab File: VD060062.D

Acq: 20 Sep 2018 21:54

Instrument :

MSVOA_D

ClientSampleId :

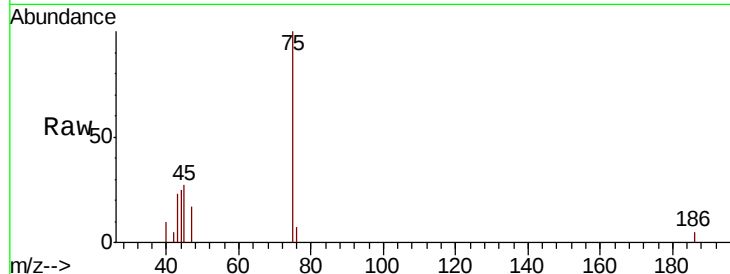
RA-091918-N-WW-062

Tot Ion: 43 Resp: 5684

Ion Ratio Lower Upper

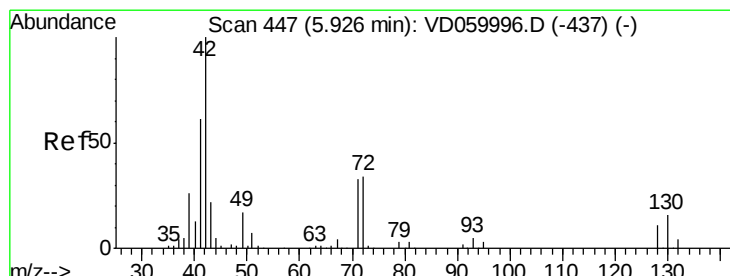
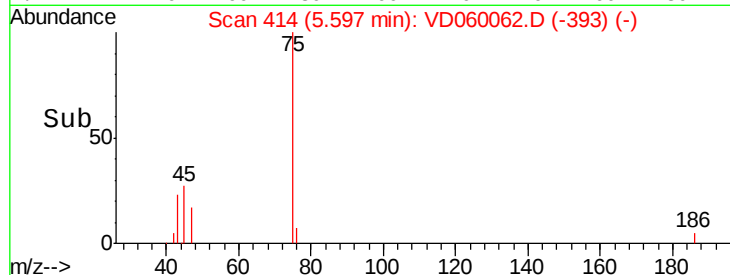
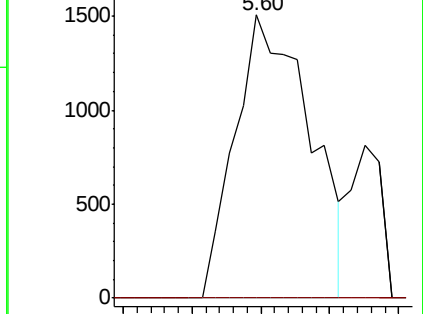
43 100

72 0.0 13.6 20.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.34 ug/l

RT: 5.92 min Scan# 447

Delta R.T. -0.00 min

Lab File: VD060062.D

Acq: 20 Sep 2018 21:54

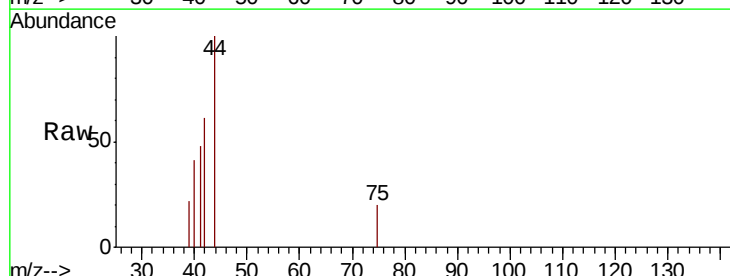
Tgt Ion: 42 Resp: 2950

Ion Ratio Lower Upper

42 100

72 0.0 26.9 40.3#

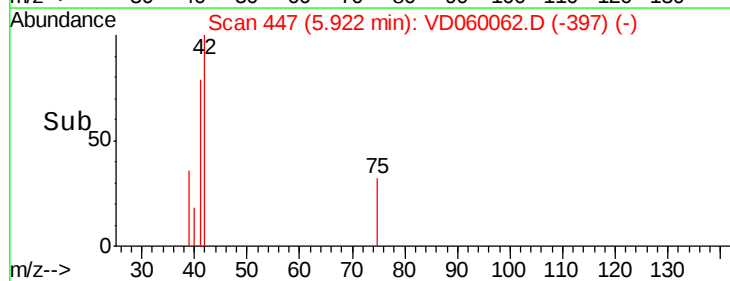
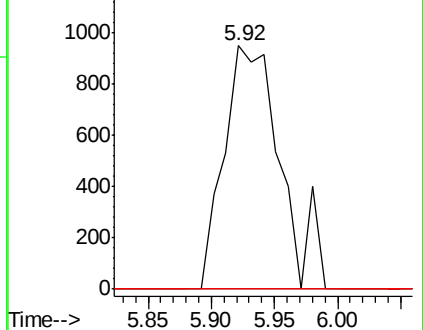
71 0.0 26.2 39.4#

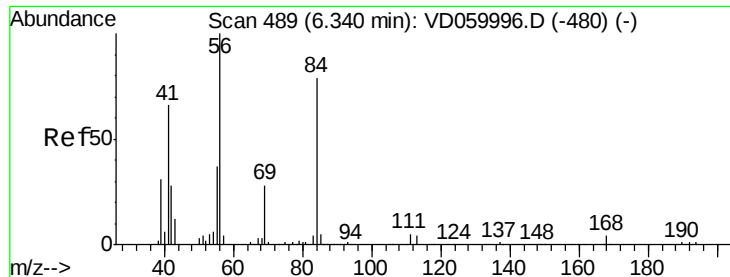


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.36 ug/l

RT: 6.37 min Scan# 493

Delta R.T. 0.03 min

Lab File: VD060062.D

Acq: 20 Sep 2018 21:54

Instrument :

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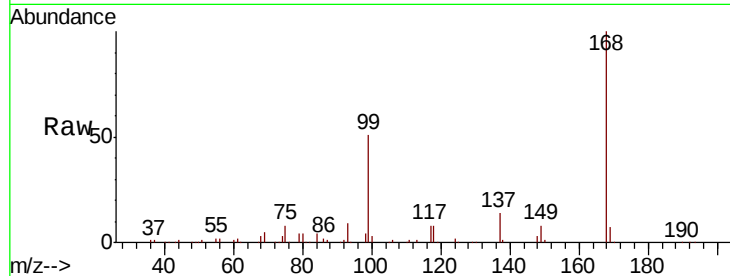
Tot Ion: 56 Resp: 23753

Ion Ratio Lower Upper

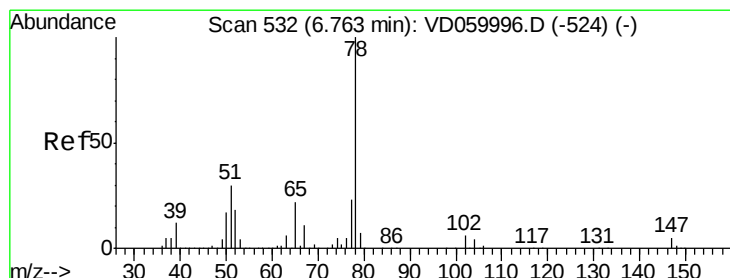
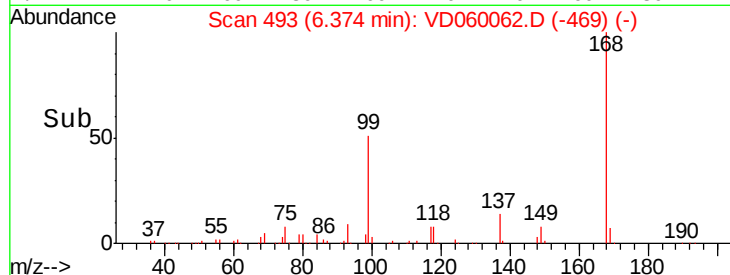
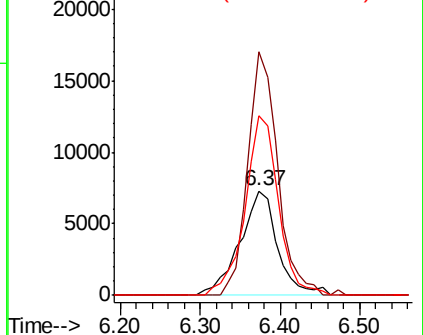
56 100

69 232.6 22.7 34.1#

84 171.6 64.0 96.0#



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: Below ug/l

RT: 6.76 min Scan# 532

Delta R.T. -0.00 min

Lab File: VD060062.D

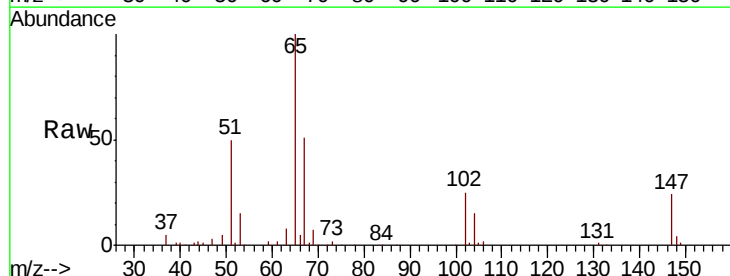
Acq: 20 Sep 2018 21:54

Tgt Ion: 65 Resp: 347909

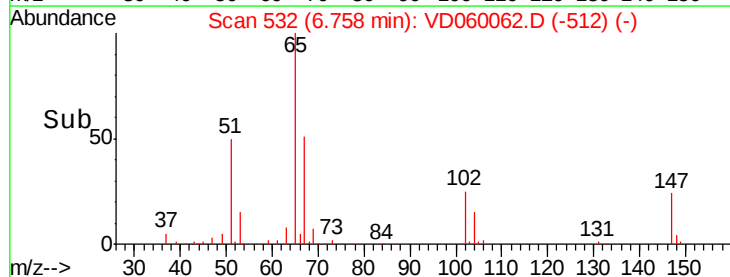
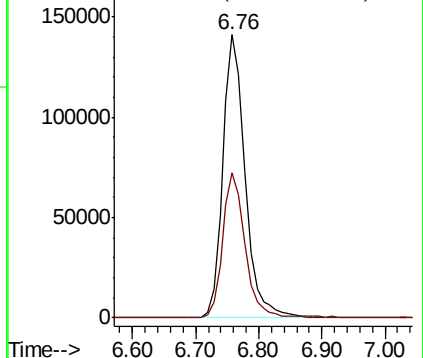
Ion Ratio Lower Upper

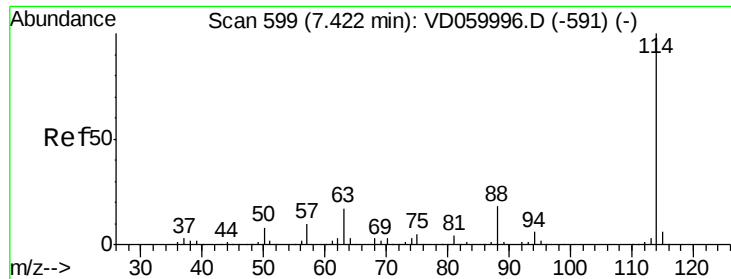
65 100

67 51.5 0.0 104.8



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

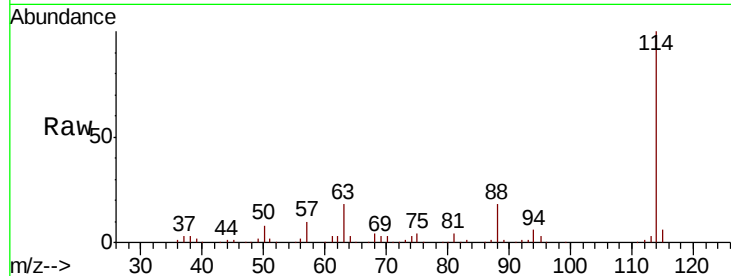




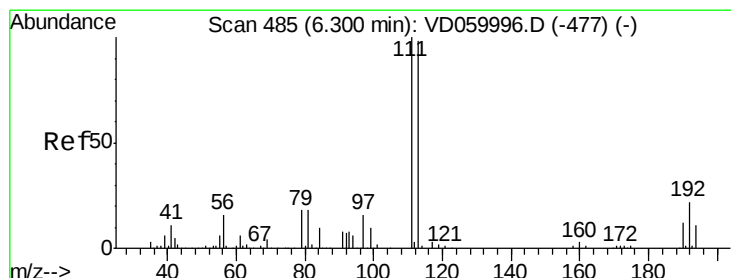
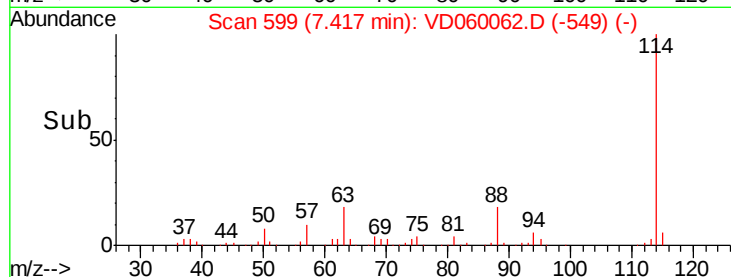
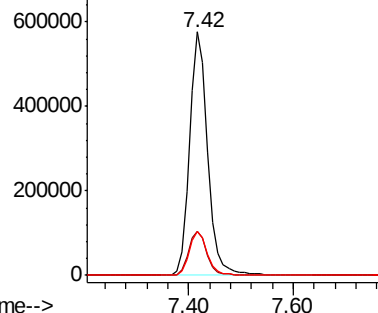
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.42 min Scan# 599
 Delta R.T. -0.00 min
 Lab File: VD060062.D
 Acq: 20 Sep 2018 21:54

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Tot Ion:114 Resp: 1383137
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 34.4
 88 18.0 0.0 35.8

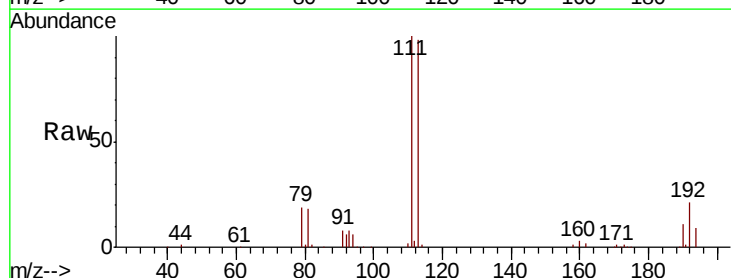


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

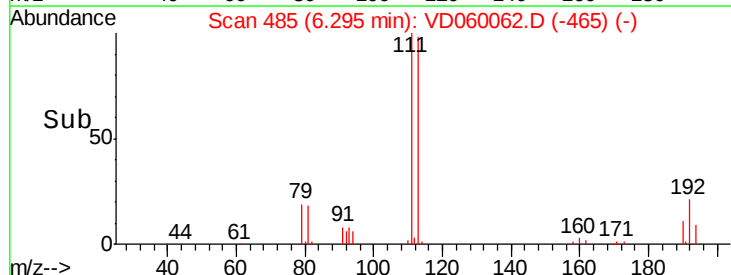
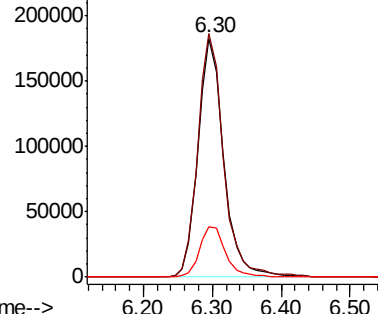


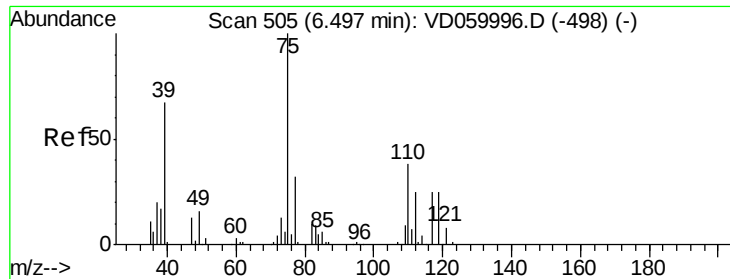
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.30 min Scan# 485
 Delta R.T. -0.00 min
 Lab File: VD060062.D
 Acq: 20 Sep 2018 21:54

Tgt Ion:113 Resp: 472531
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.3 121.9
 192 20.9 18.1 27.1



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

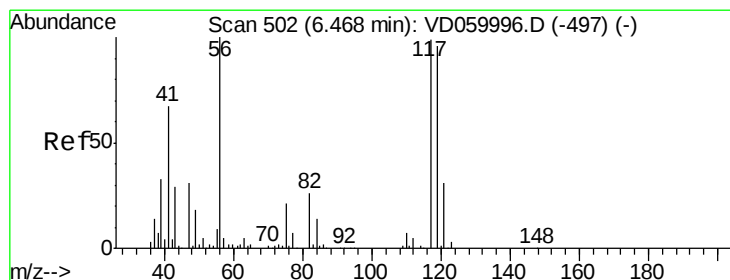
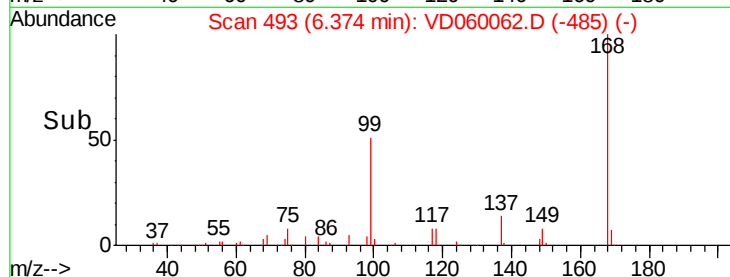
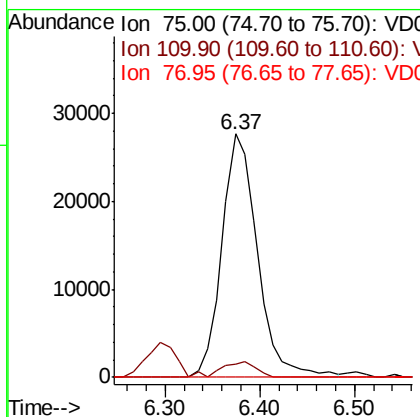
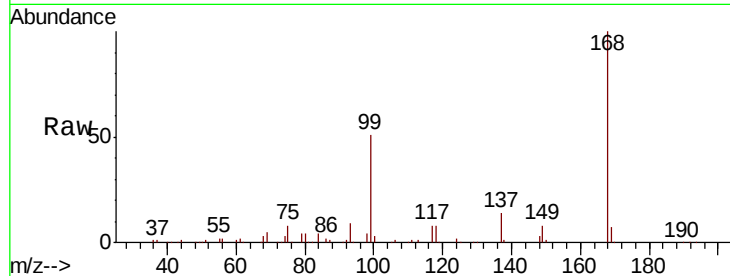




#36
 1,1-Dichloropropene
 Concen: 5.24 ug/l
 RT: 6.37 min Scan# 493
 Delta R.T. -0.12 min
 Lab File: VD060062.D
 Acq: 20 Sep 2018 21:54

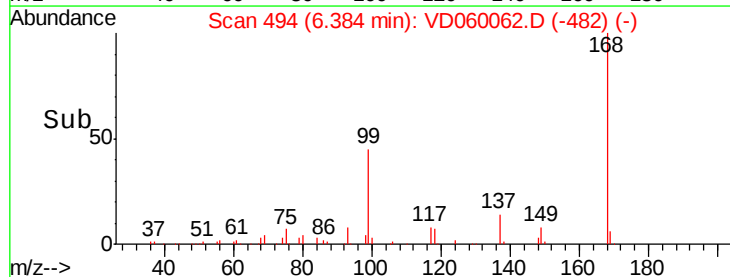
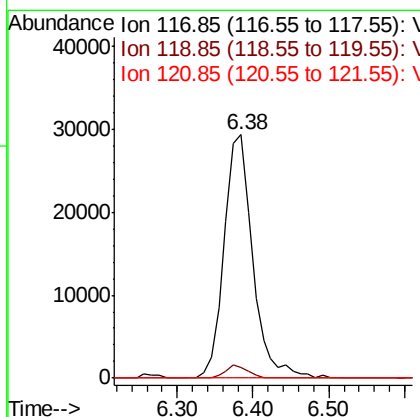
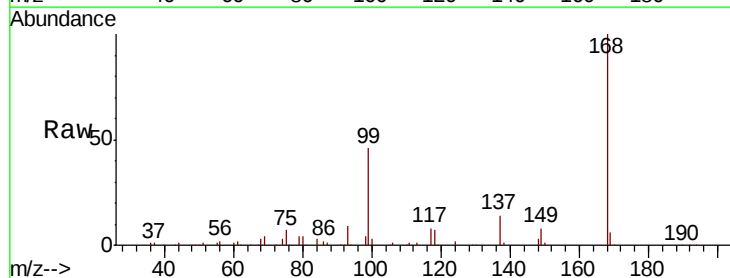
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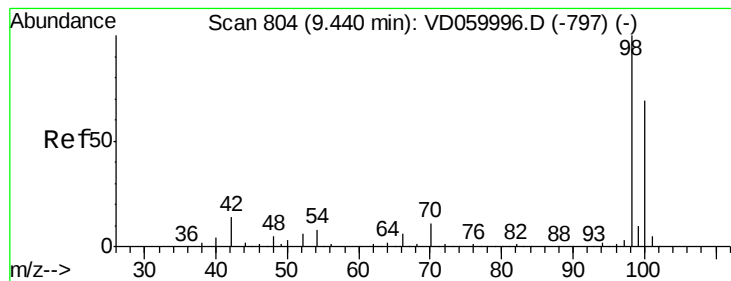
Tot Ion	75	Resp	71975
Ion Ratio	Lower	Upper	
75	100		
110	5.4	18.9	56.9#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 5.98 ug/l
 RT: 6.38 min Scan# 494
 Delta R.T. -0.08 min
 Lab File: VD060062.D
 Acq: 20 Sep 2018 21:54

Tgt Ion	117	Resp	76655
Ion Ratio	Lower	Upper	
117	100		
119	4.5	76.7	115.1#
121	0.0	24.9	37.3#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.43 min Scan# 804

Delta R.T. -0.00 min

Lab File: VD060062.D

Acq: 20 Sep 2018 21:54

Instrument :

MSVOA_D

ClientSampleId :

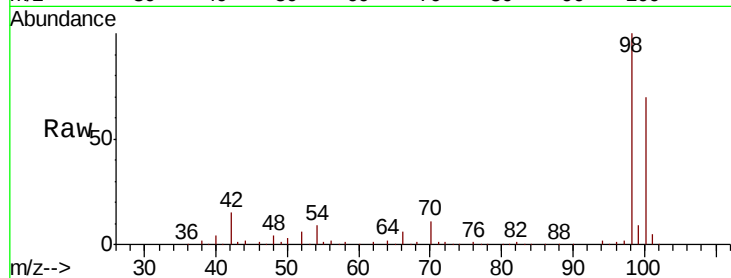
RA-091918-N-WW-062

Tot Ion: 98 Resp: 1143277

Ion Ratio Lower Upper

98 100

100 69.8 55.8 83.6



Abundance Ion 98.05 (97.75 to 98.75): VD0

Ion 100.05 (99.75 to 100.75): VD

9.43

500000

400000

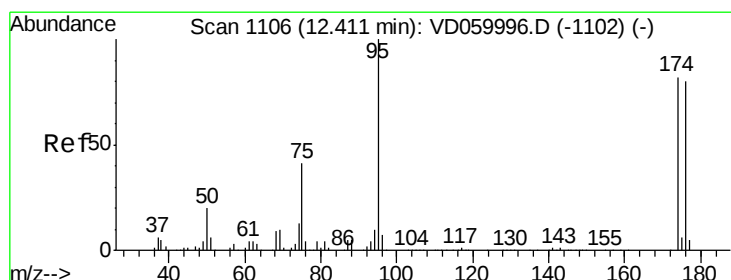
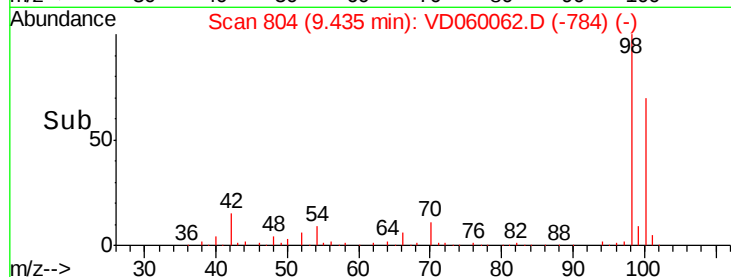
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VD060062.D

Acq: 20 Sep 2018 21:54

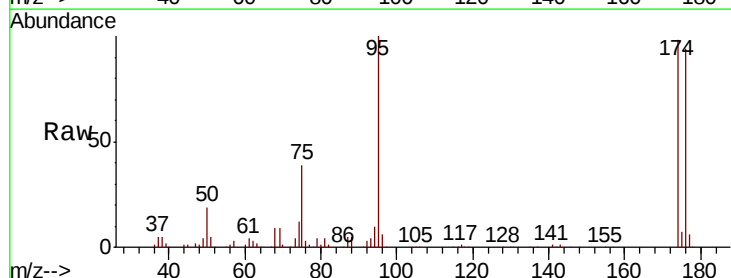
Tgt Ion: 95 Resp: 345734

Ion Ratio Lower Upper

95 100

174 97.6 0.0 165.0

176 94.4 0.0 160.2



Abundance Ion 95.00 (94.70 to 95.70): VD0

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

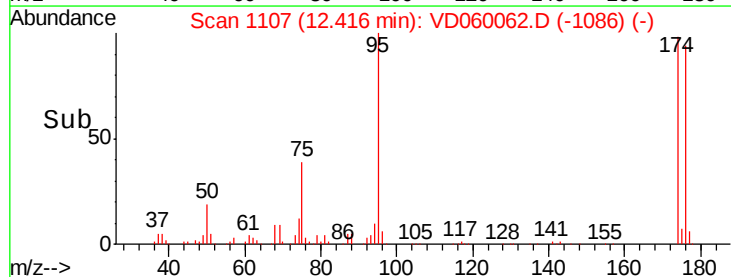
300000

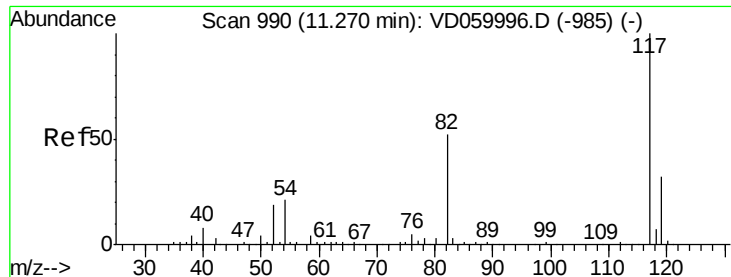
200000

100000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VD060062.D

Acq: 20 Sep 2018 21:54

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-N-WW-062

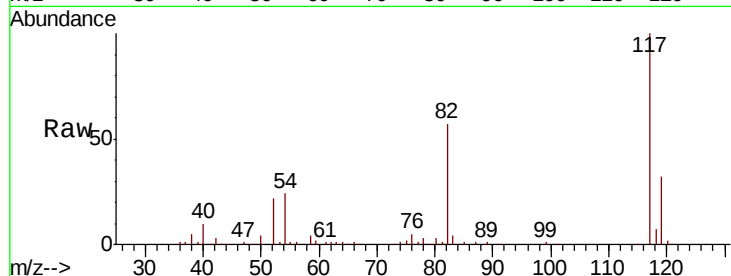
Tot Ion:117 Resp: 942124

Ion Ratio Lower Upper

117 100

82 57.5 41.7 62.5

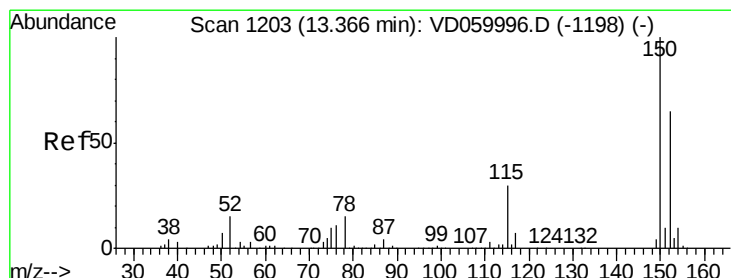
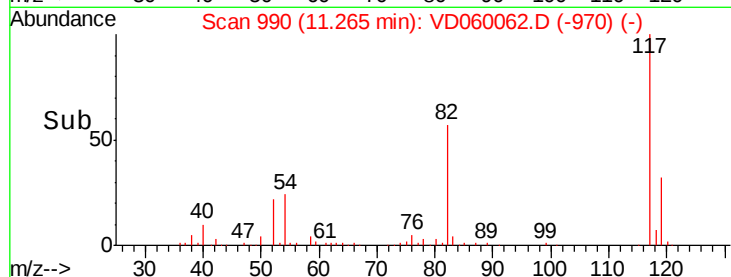
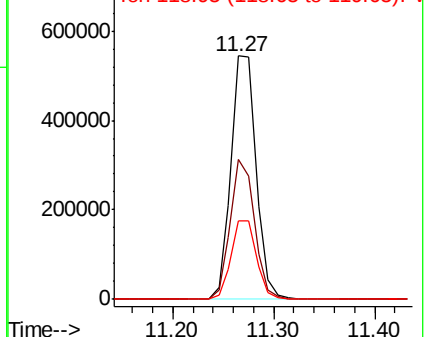
119 32.0 26.0 39.0



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: 50.00 ug/l

RT: 13.36 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD060062.D

Acq: 20 Sep 2018 21:54

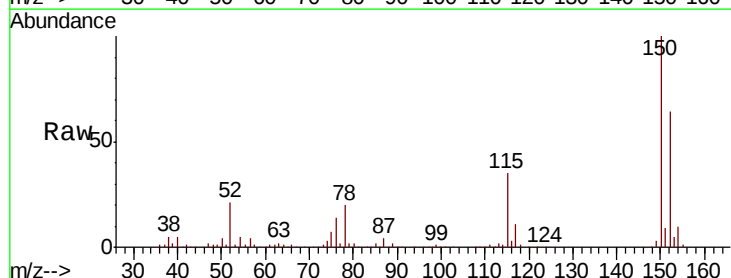
Tgt Ion:152 Resp: 338573

Ion Ratio Lower Upper

152 100

115 53.8 24.6 73.8

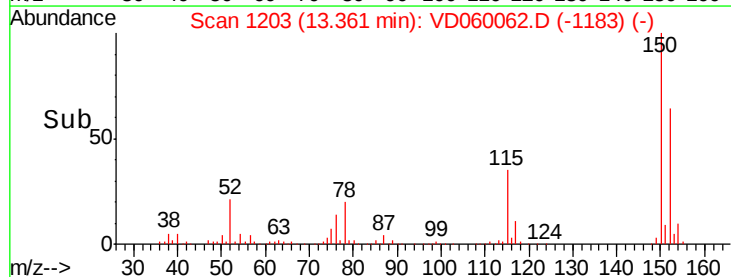
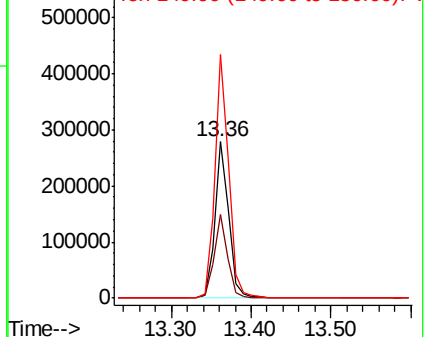
150 155.6 0.0 313.4

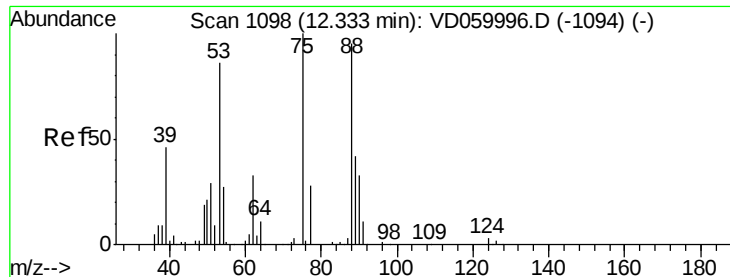


Abundance Ion 151.90 (151.60 to 152.60): V

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: 89.99 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.08 min

Lab File: VD060062.D

Acq: 20 Sep 2018 21:54

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-N-WW-062

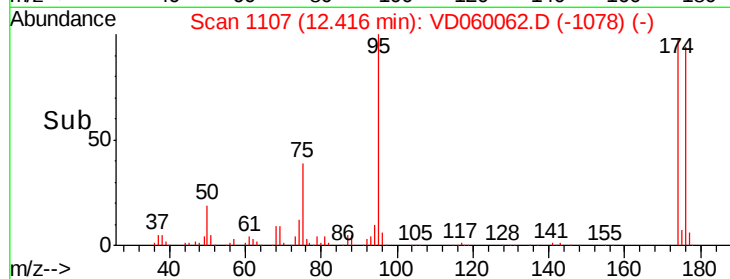
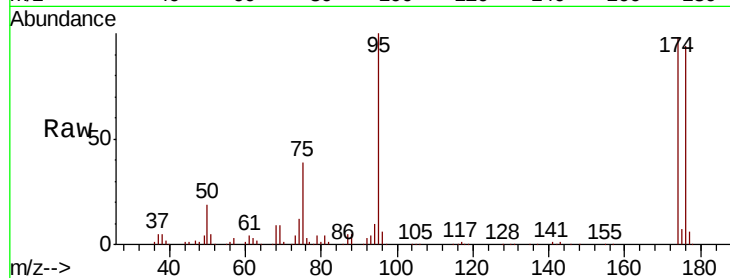
Tot Ion: 75 Resp: 140470

Ion Ratio Lower Upper

75 100

53 0.0 68.4 102.6#

89 0.0 33.8 50.6#



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

