

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD092418\
 Data File : VD060082.D
 Acq On : 24 Sep 2018 15:15
 Operator : VA/AP
 Sample : J5017-07RE
 Misc : 5.04g/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061RE

Quant Time: Sep 25 00:59:38 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	6.37	168	370900	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.42	114	656271	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.26	117	559445	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	247671	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.76	65	157970	54.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.24%	
35) Dibromofluoromethane	6.29	113	170029	33.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	66.32%	
50) Toluene-d8	9.42	98	384194	27.04	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	54.08%	
62) 4-Bromofluorobenzene	12.41	95	163074	30.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	60.08%	

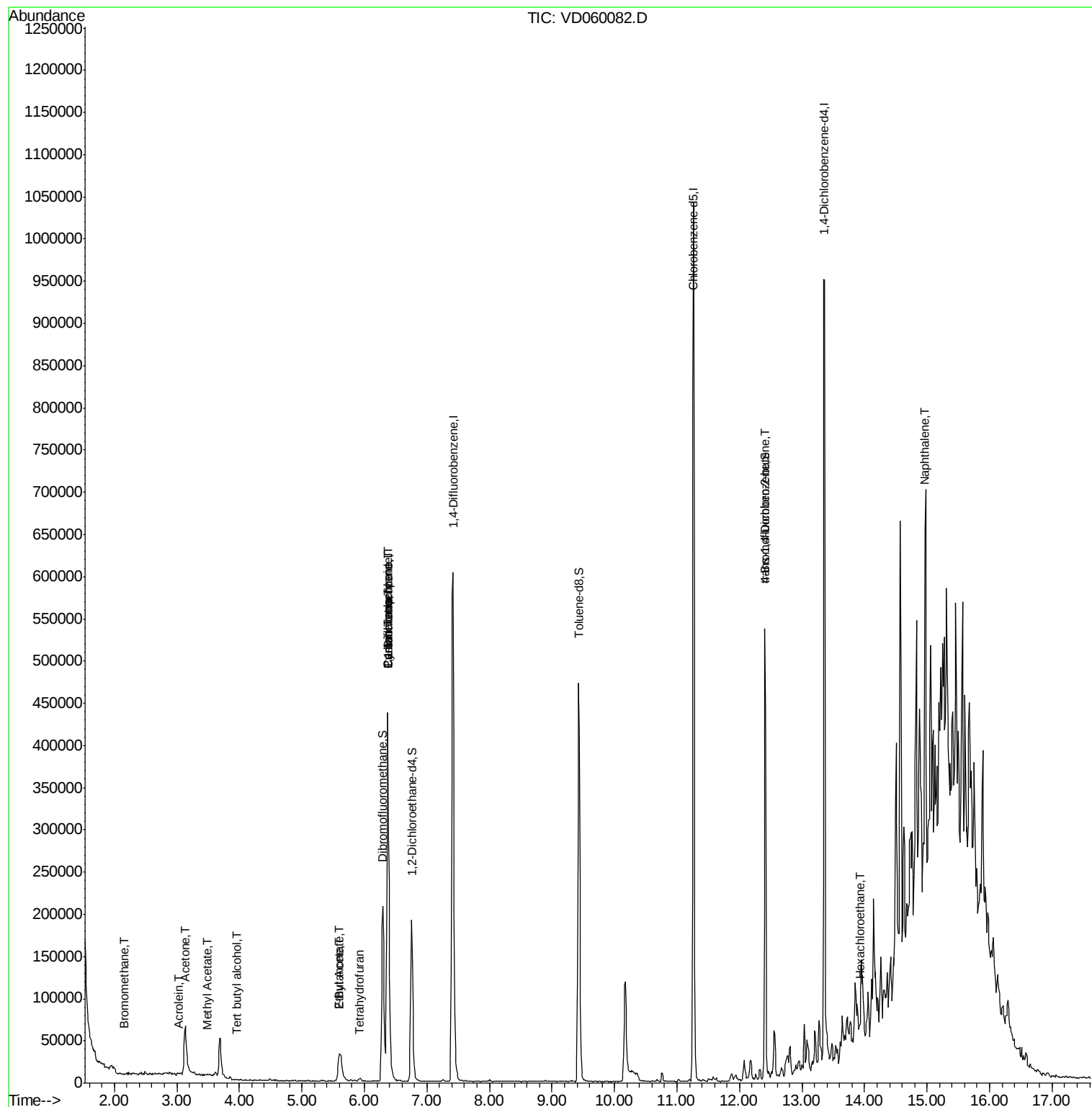
Target Compounds						Qvalue
5) Bromomethane	2.15	94	958	2.911	ug/l #	1
11) Tert butyl alcohol	3.95	59	407	1.744	ug/l #	74
13) Acrolein	3.02	56	191	1.322	ug/l #	61
16) Acetone	3.14	43	119464	213.926	ug/l	93
18) Methyl Acetate	3.49	43	1314	1.157	ug/l #	64
25) 2-Butanone	5.59	43	52007	34.512	ug/l	99
29) Tetrahydrofuran	5.92	42	2928	3.623	ug/l #	55
31) Cyclohexane	6.36	56	8036	1.251	ug/l #	1
36) 1,1-Dichloropropene	6.37	75	31914	4.896	ug/l #	45
37) Ethyl Acetate	5.59	43	52007	11.601	ug/l #	72
38) Carbon Tetrachloride	6.37	117	33121	5.443	ug/l #	15
51) 4-Methyl-2-Pentanone	9.32	43	2043	Below Cal	#	42
59) 2-Hexanone	10.47	43	795	Below Cal	#	30
81) trans-1,4-Dichloro-2-buten	12.41	75	63513	55.624	ug/l #	15
89) n-Butylbenzene	13.64	91	5331	Below Cal		86
90) Hexachloroethane	13.92	117	6493	1.893	ug/l #	7
91) 1,2-Dichlorobenzene	13.65	146	490	Below Cal	#	68
95) Naphthalene	14.95	128	14179	1.583	ug/l #	74

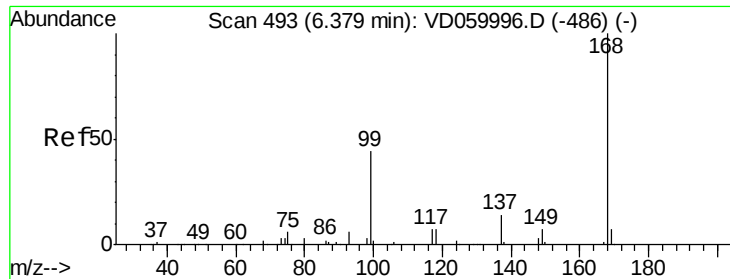
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.01 min

Lab File: VD060082.D

Acq: 24 Sep 2018 15:15

Instrument :

MSVOA_D

ClientSampleId :

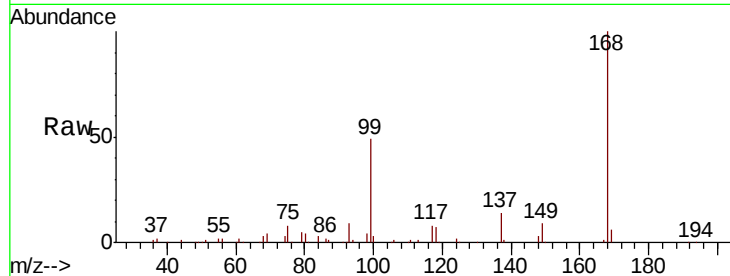
RA-091918-S-NW-061RE

Tgt Ion: 168 Resp: 370900

Ion Ratio Lower Upper

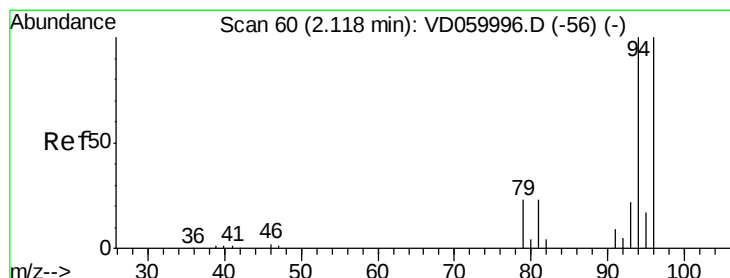
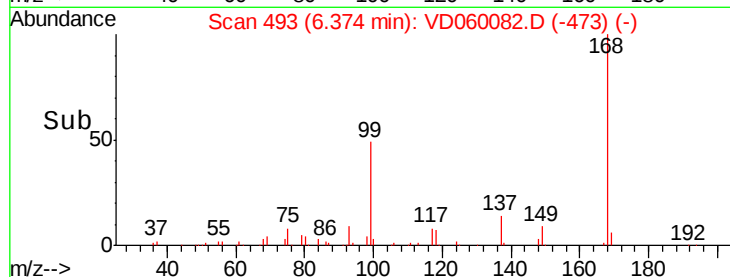
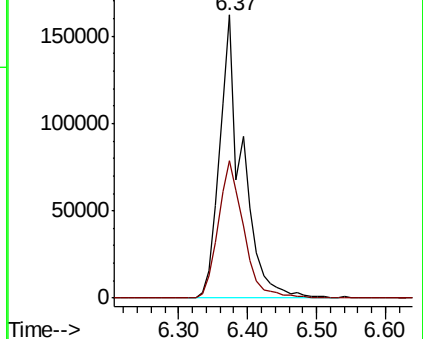
168 100

99 48.5 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 2.911 ug/l

RT: 2.15 min Scan# 64

Delta R.T. 0.03 min

Lab File: VD060082.D

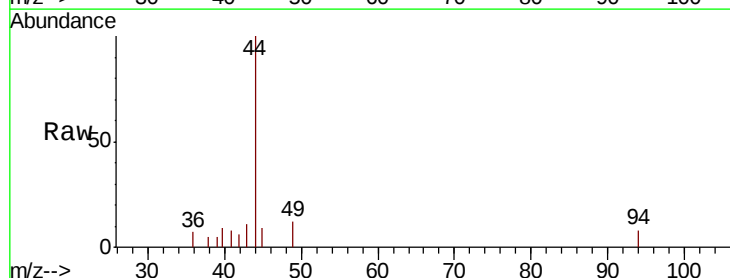
Acq: 24 Sep 2018 15:15

Tgt Ion: 94 Resp: 958

Ion Ratio Lower Upper

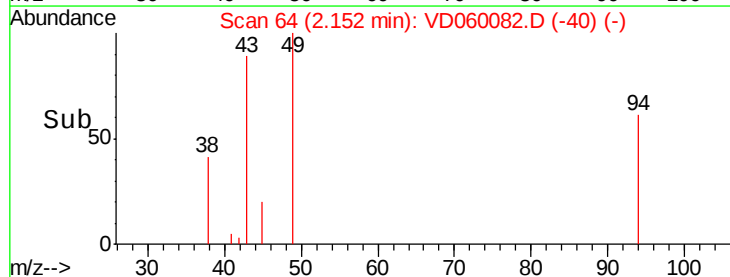
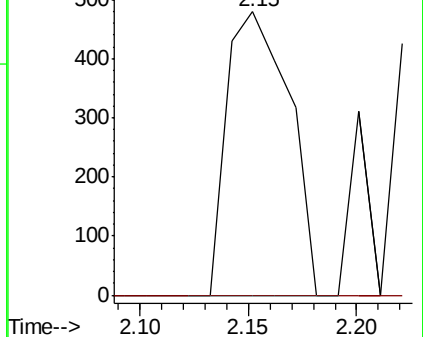
94 100

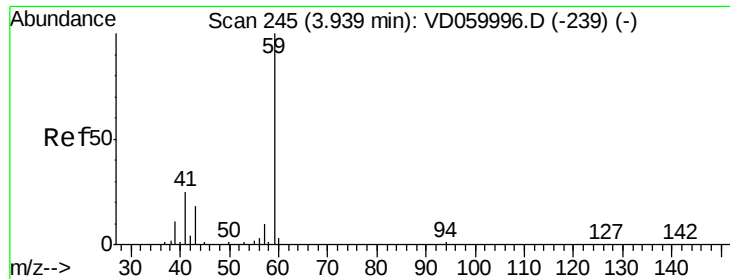
96 0.0 79.8 119.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

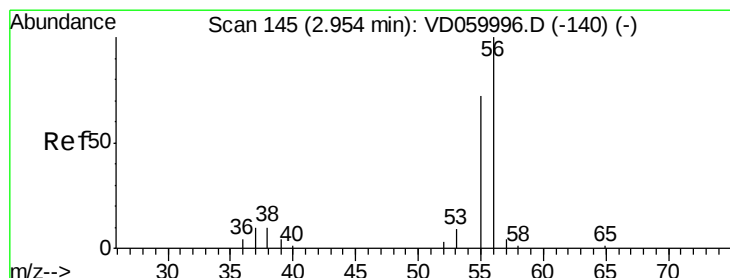
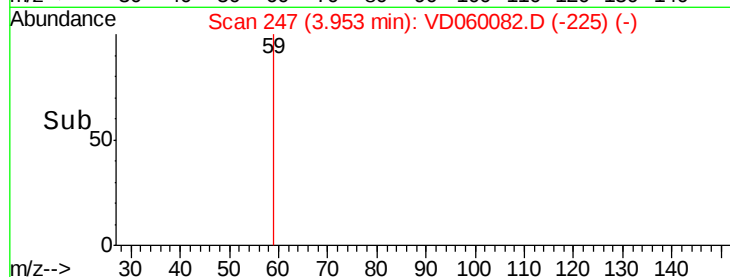
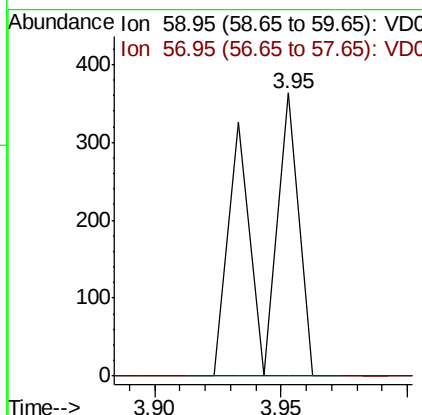
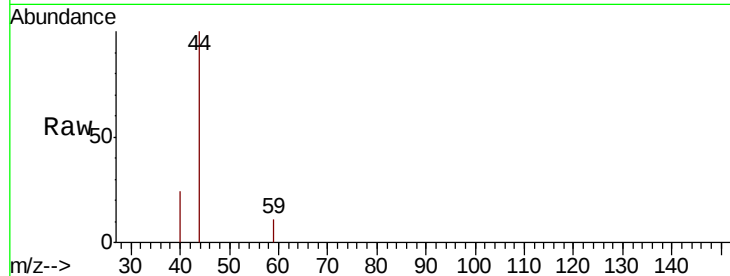




#11
Tert butyl alcohol
Concen: 1.744 ug/l
RT: 3.95 min Scan# 247
Delta R.T. 0.01 min
Lab File: VD060082.D
Acq: 24 Sep 2018 15:15

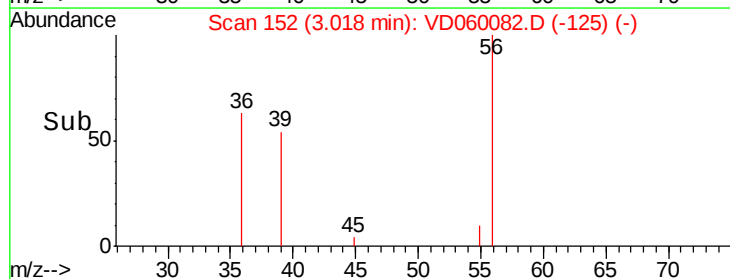
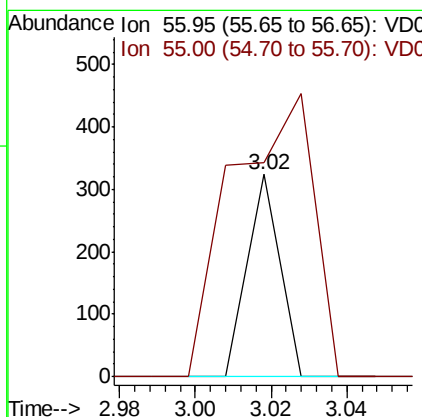
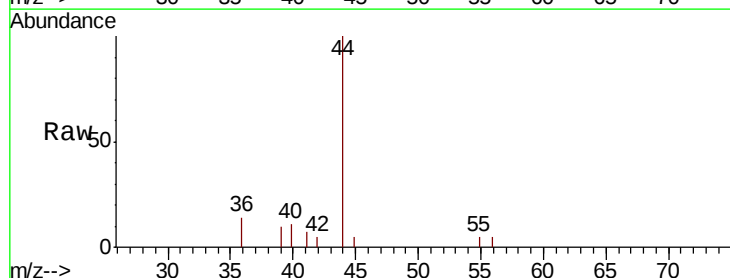
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061RE

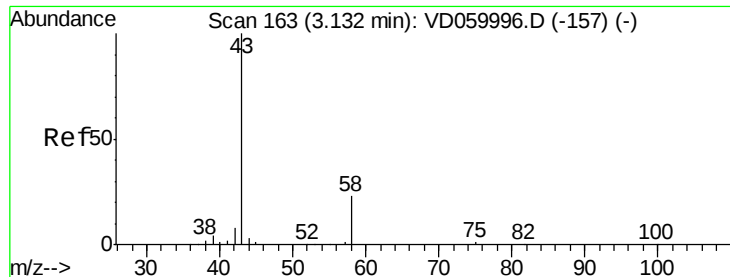
Tgt Ion: 59 Resp: 407
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#



#13
Acrolein
Concen: 1.322 ug/l
RT: 3.02 min Scan# 152
Delta R.T. 0.06 min
Lab File: VD060082.D
Acq: 24 Sep 2018 15:15

Tgt Ion: 56 Resp: 191
Ion Ratio Lower Upper
56 100
55 105.9 58.3 87.5#





#16

Acetone

Concen: 213.926 ug/l

RT: 3.14 min Scan# 164

Delta R.T. 0.00 min

Lab File: VD060082.D

Acq: 24 Sep 2018 15:15

Instrument :

MSVOA_D

ClientSampleId :

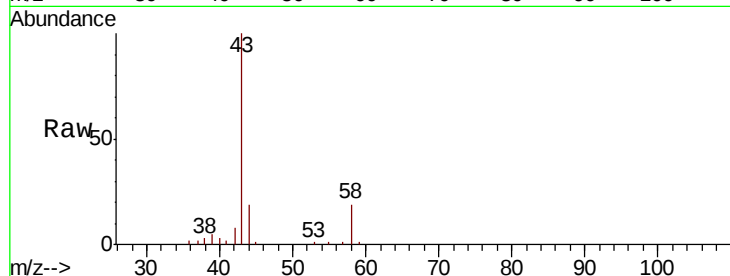
RA-091918-S-NW-061RE

Tgt Ion: 43 Resp: 119464

Ion Ratio Lower Upper

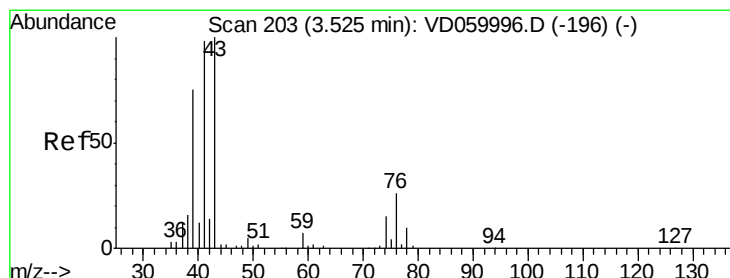
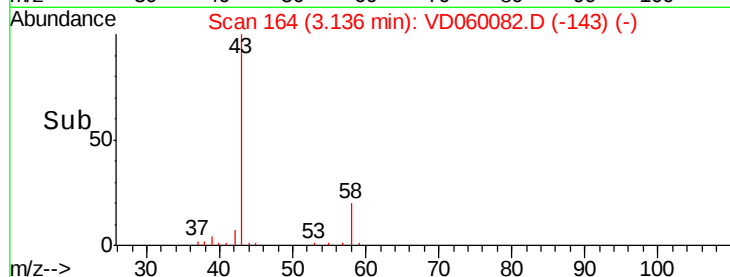
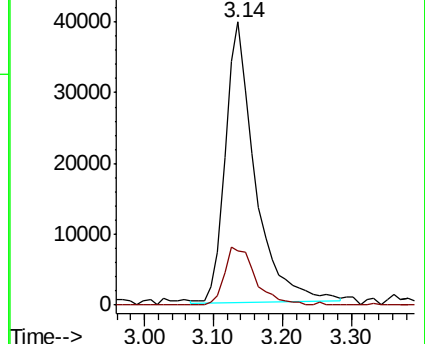
43 100

58 19.3 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.157 ug/l

RT: 3.49 min Scan# 200

Delta R.T. -0.03 min

Lab File: VD060082.D

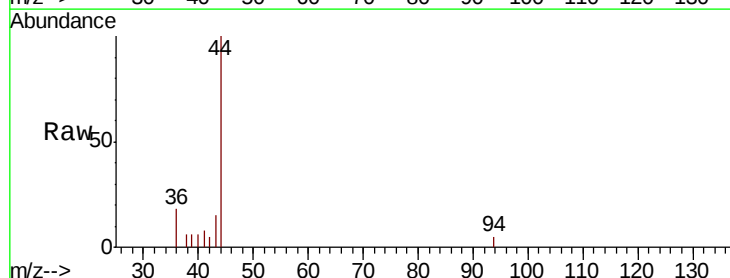
Acq: 24 Sep 2018 15:15

Tgt Ion: 43 Resp: 1314

Ion Ratio Lower Upper

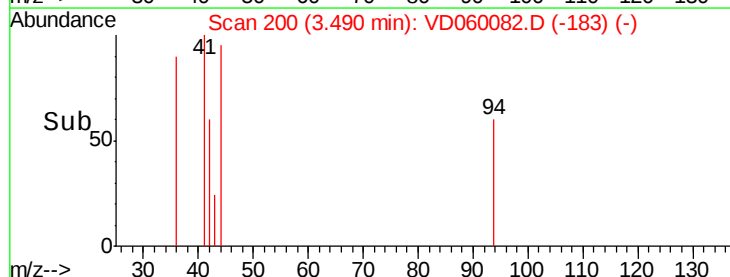
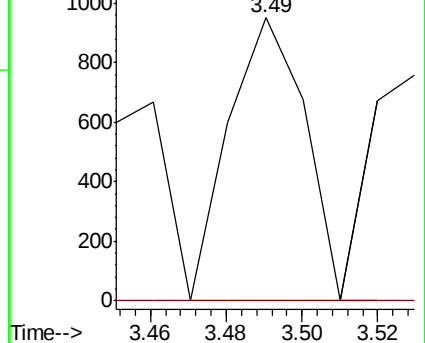
43 100

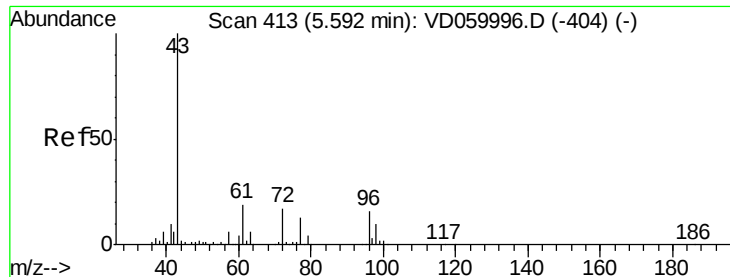
74 0.0 11.8 17.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#25

2-Butanone

Concen: 34.512 ug/l

RT: 5.59 min Scan# 413

Delta R.T. -0.00 min

Lab File: VD060082.D

Acq: 24 Sep 2018 15:15

Instrument :

MSVOA_D

ClientSampleId :

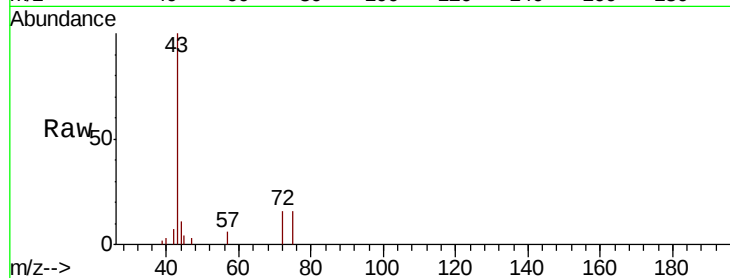
RA-091918-S-NW-061RE

Tgt Ion: 43 Resp: 52007

Ion Ratio Lower Upper

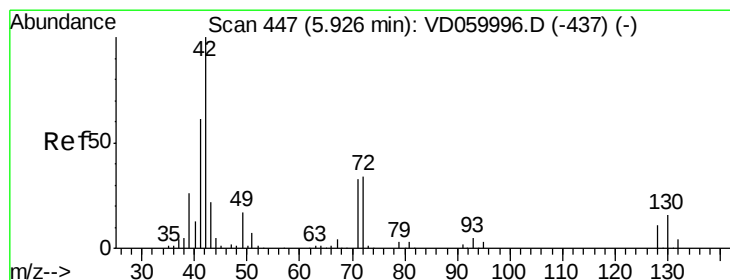
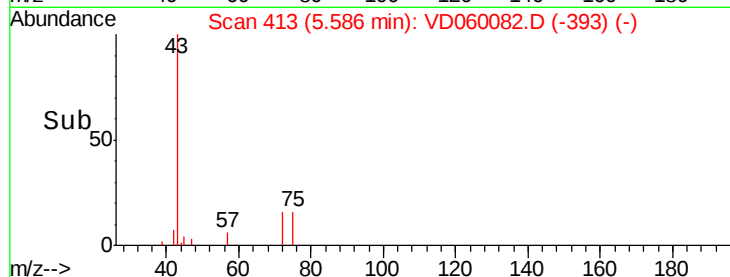
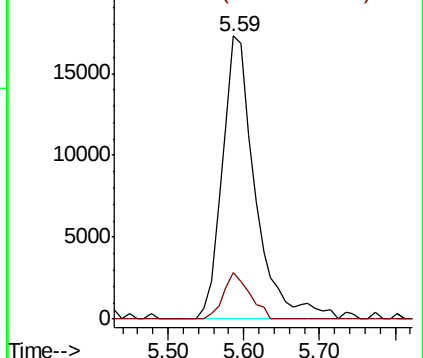
43 100

72 16.4 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: 3.623 ug/l

RT: 5.92 min Scan# 447

Delta R.T. -0.01 min

Lab File: VD060082.D

Acq: 24 Sep 2018 15:15

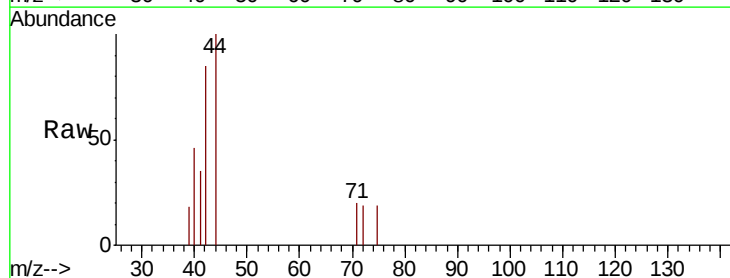
Tgt Ion: 42 Resp: 2928

Ion Ratio Lower Upper

42 100

72 0.0 26.9 40.3#

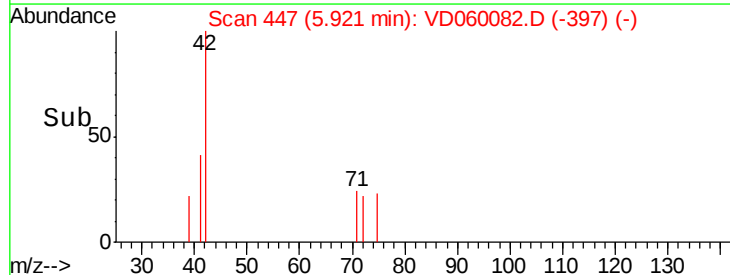
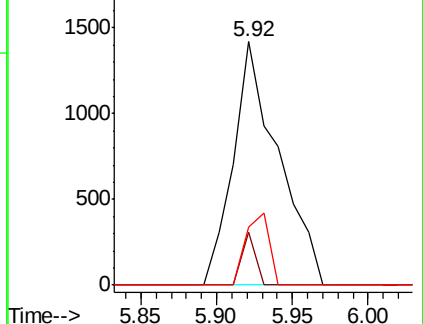
71 15.3 26.2 39.4#

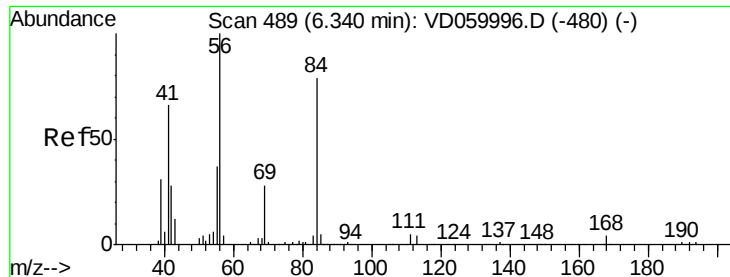


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

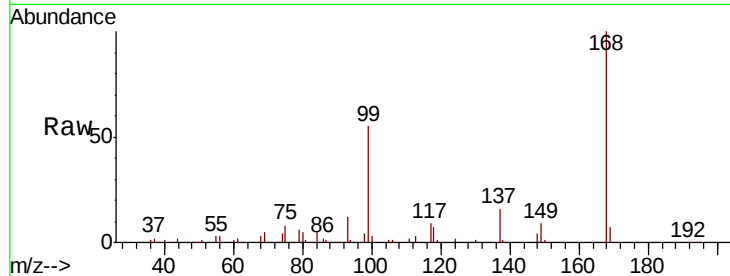




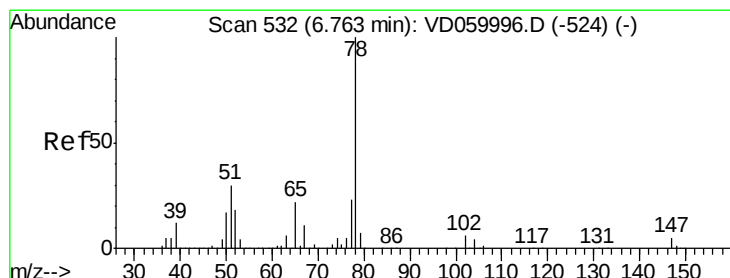
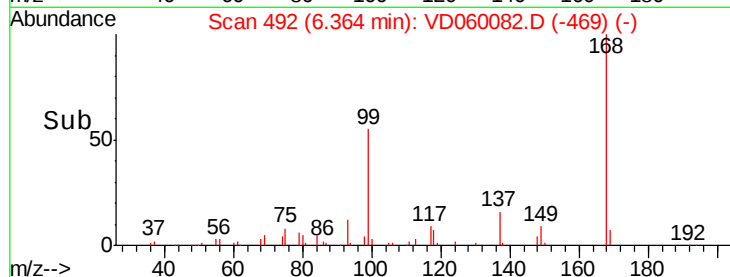
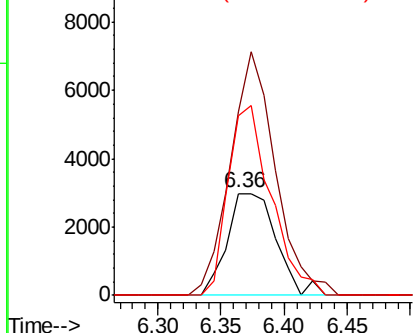
#31
Cyclohexane
Concen: 1.251 ug/l
RT: 6.36 min Scan# 492
Delta R.T. 0.02 min
Lab File: VD060082.D
Acq: 24 Sep 2018 15:15

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061RE

Tgt Ion: 56 Resp: 8036
Ion Ratio Lower Upper
56 100
69 179.9 22.7 34.1#
84 176.6 64.0 96.0#

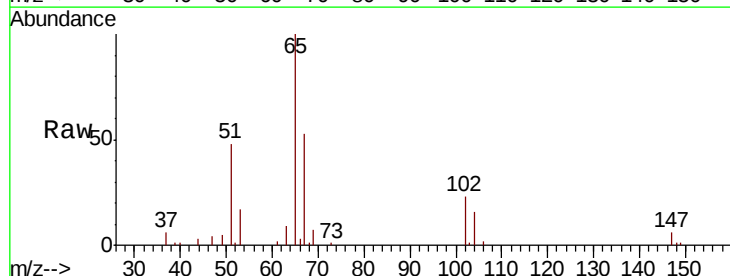


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

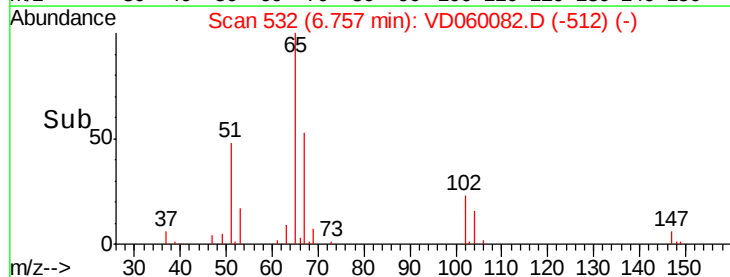
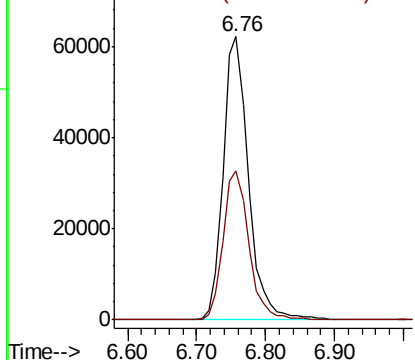


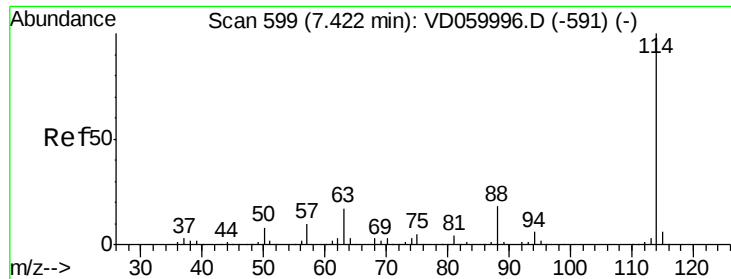
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.76 min Scan# 532
Delta R.T. -0.01 min
Lab File: VD060082.D
Acq: 24 Sep 2018 15:15

Tgt Ion: 65 Resp: 157970
Ion Ratio Lower Upper
65 100
67 52.8 0.0 104.8



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

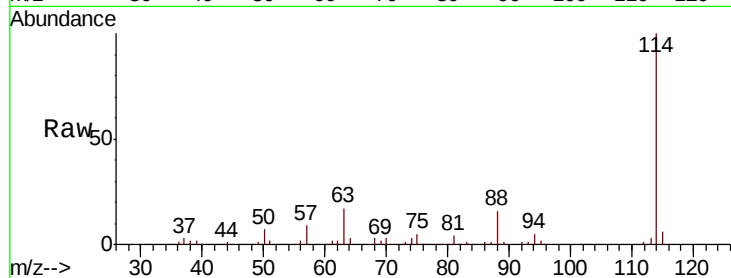




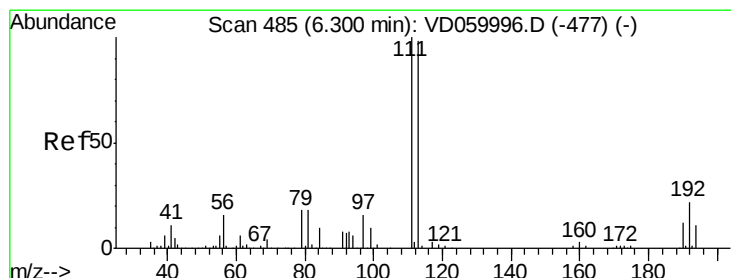
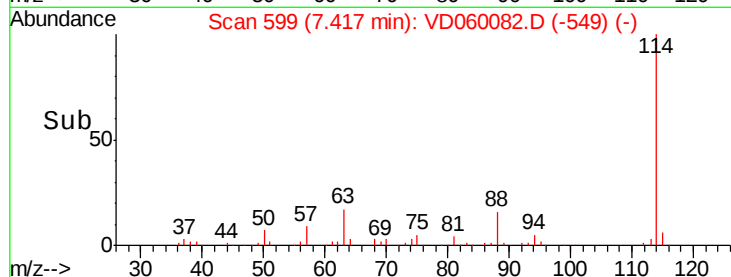
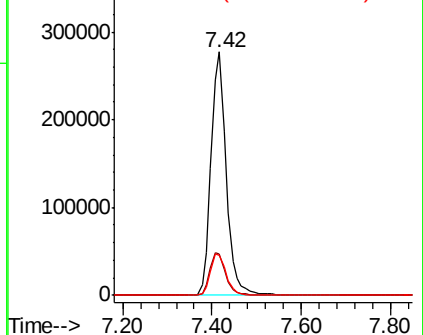
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.42 min Scan# 599
 Delta R.T. -0.01 min
 Lab File: VD060082.D
 Acq: 24 Sep 2018 15:15

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Tgt Ion:114 Resp: 656271
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 34.4
 88 16.2 0.0 35.8

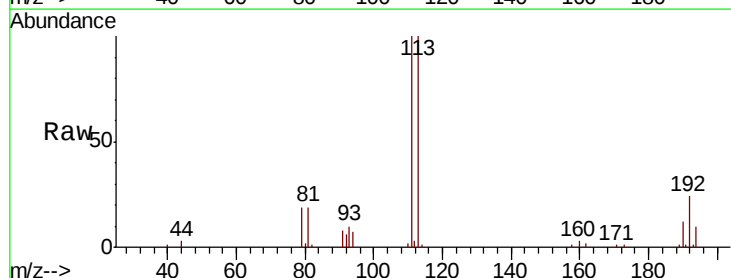


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

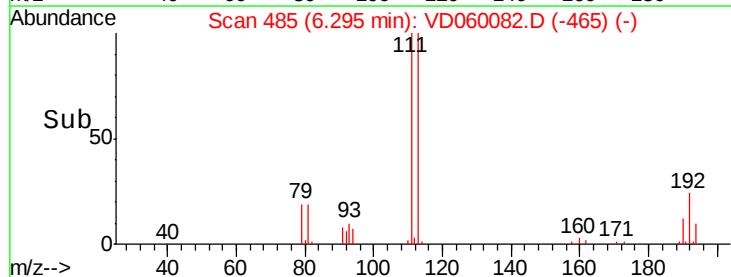
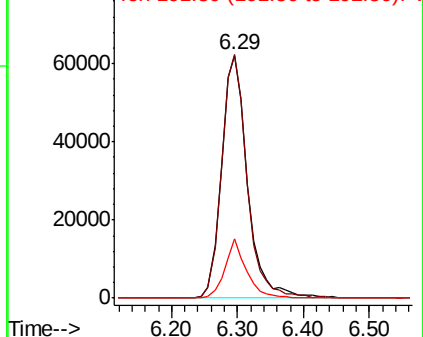


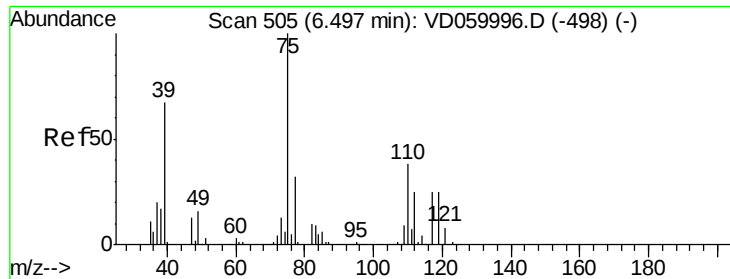
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.29 min Scan# 485
 Delta R.T. -0.01 min
 Lab File: VD060082.D
 Acq: 24 Sep 2018 15:15

Tgt Ion:113 Resp: 170029
 Ion Ratio Lower Upper
 113 100
 111 100.3 81.3 121.9
 192 24.3 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: 4.896 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.12 min

Lab File: VD060082.D

Acq: 24 Sep 2018 15:15

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061RE

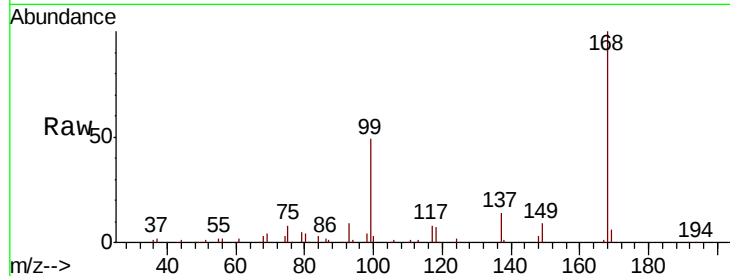
Tgt Ion: 75 Resp: 31914

Ion Ratio Lower Upper

75 100

110 6.0 18.9 56.9#

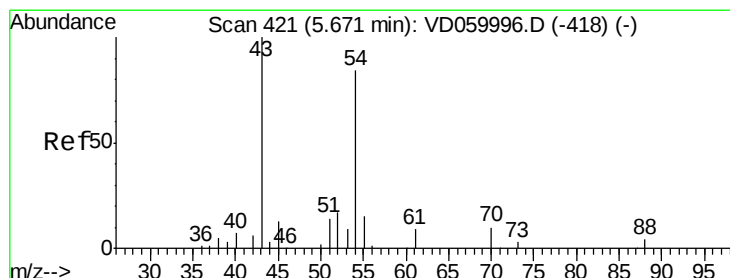
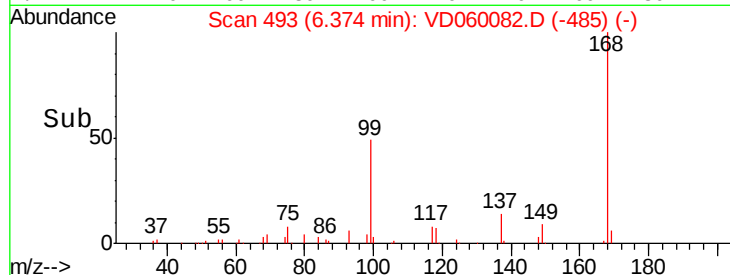
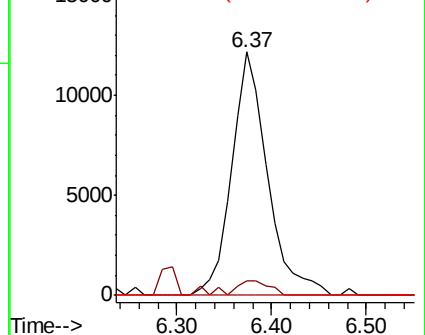
77 0.0 25.3 37.9#



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: 11.601 ug/l

RT: 5.59 min Scan# 413

Delta R.T. -0.08 min

Lab File: VD060082.D

Acq: 24 Sep 2018 15:15

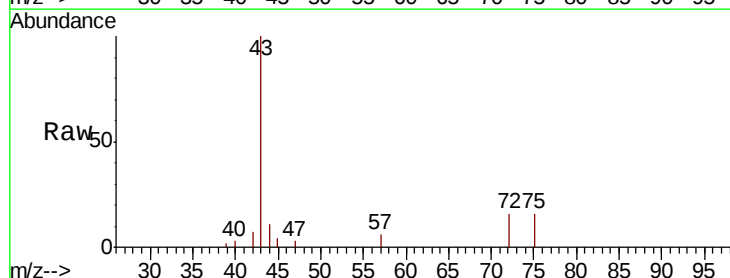
Tgt Ion: 43 Resp: 52007

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.2#

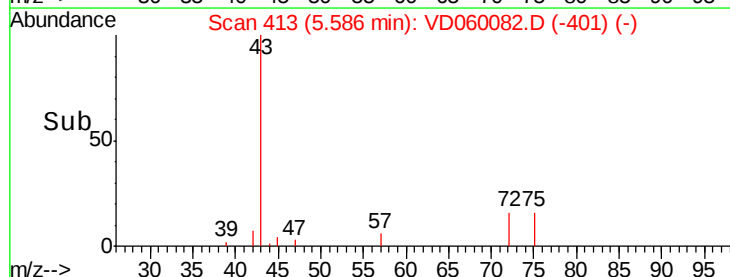
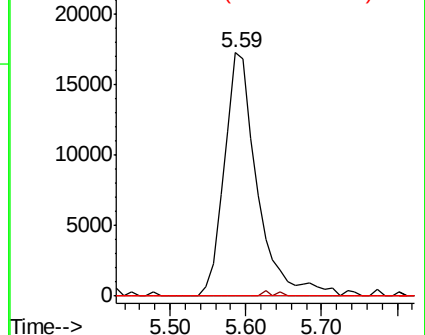
70 0.0 6.1 9.1#

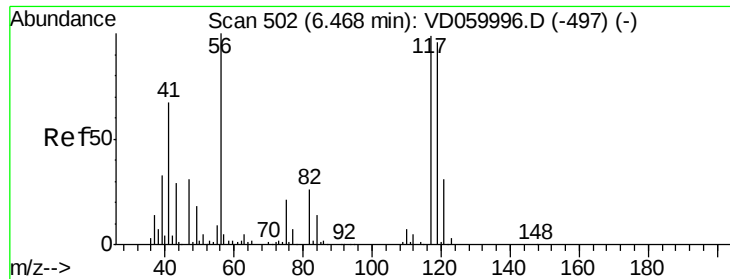


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.443 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.09 min

Lab File: VD060082.D

Acq: 24 Sep 2018 15:15

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061RE

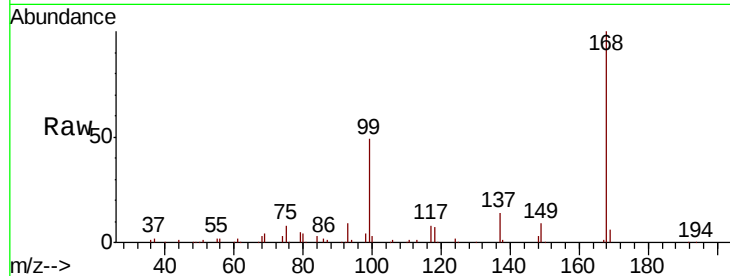
Tgt Ion:117 Resp: 33121

Ion Ratio Lower Upper

117 100

119 3.6 76.7 115.1#

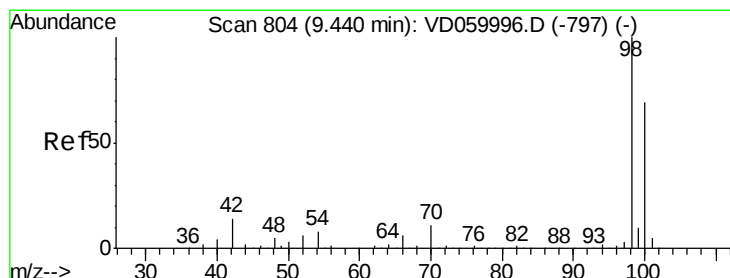
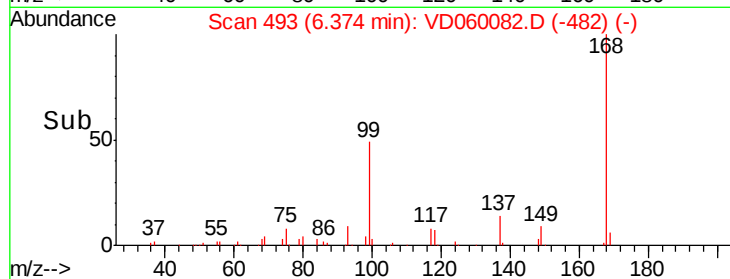
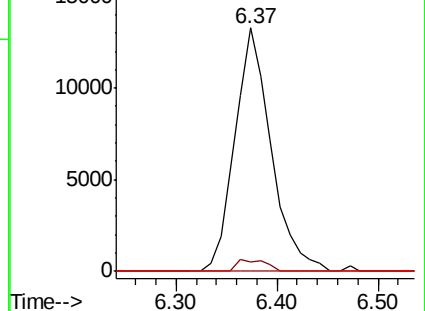
121 0.0 24.9 37.3#



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: 9.42 min Scan# 803

Delta R.T. -0.02 min

Lab File: VD060082.D

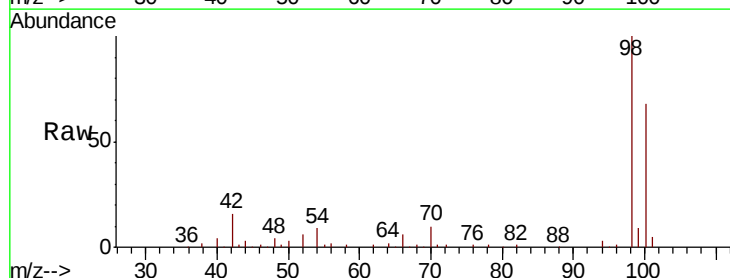
Acq: 24 Sep 2018 15:15

Tgt Ion: 98 Resp: 384194

Ion Ratio Lower Upper

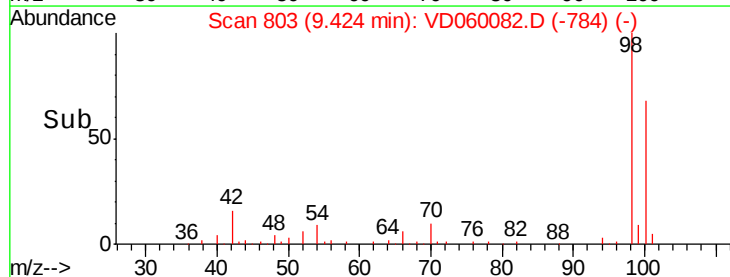
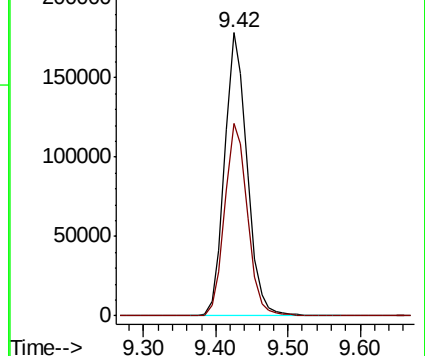
98 100

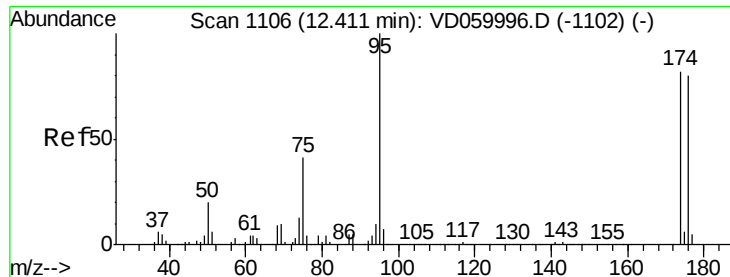
100 68.0 55.8 83.6



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: 12.41 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VD060082.D

Acq: 24 Sep 2018 15:15

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061RE

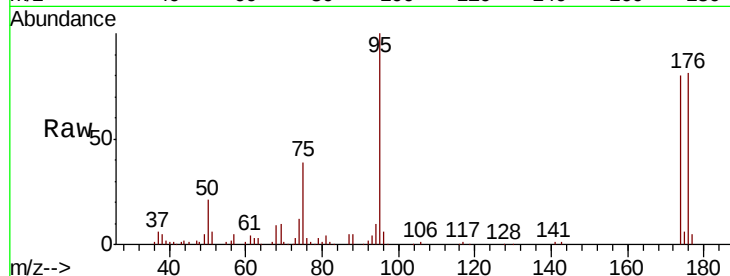
Tgt Ion: 95 Resp: 163074

Ion Ratio Lower Upper

95 100

174 79.5 0.0 165.0

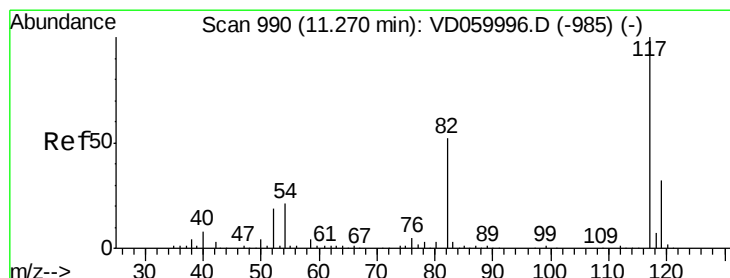
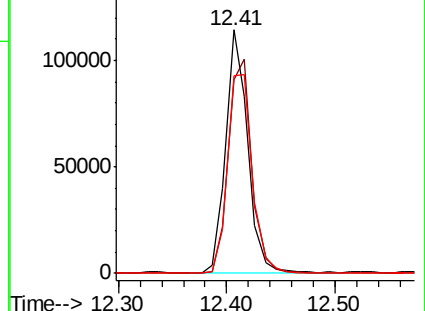
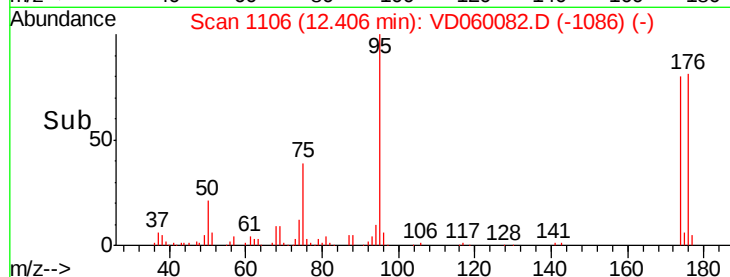
176 81.0 0.0 160.2



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: 11.26 min Scan# 990

Delta R.T. -0.01 min

Lab File: VD060082.D

Acq: 24 Sep 2018 15:15

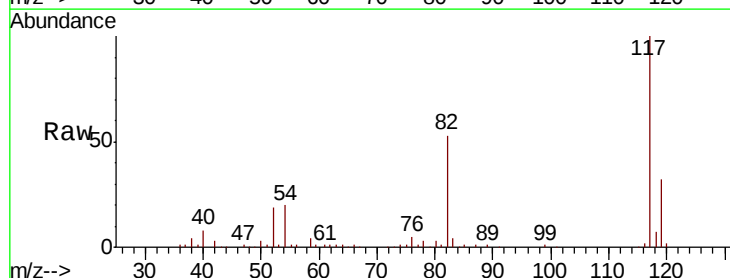
Tgt Ion: 117 Resp: 559445

Ion Ratio Lower Upper

117 100

82 52.9 41.7 62.5

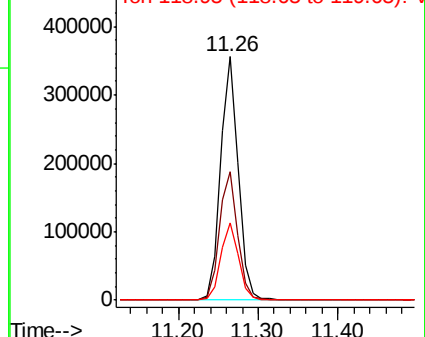
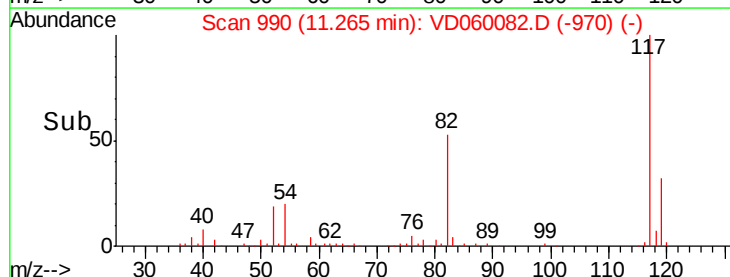
119 31.8 26.0 39.0

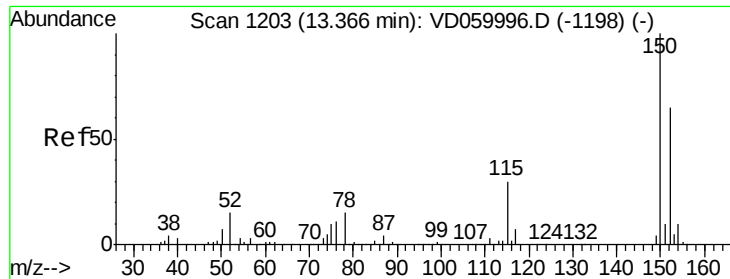


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.36 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD060082.D

Acq: 24 Sep 2018 15:15

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061RE

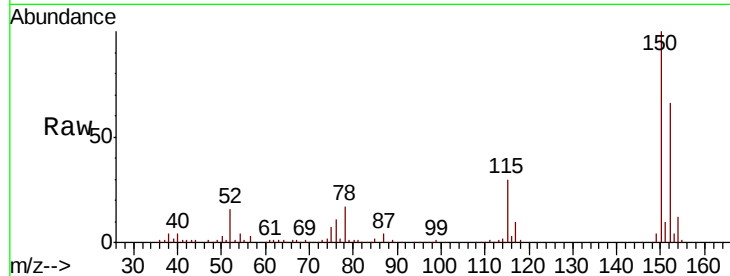
Tgt Ion:152 Resp: 247671

Ion Ratio Lower Upper

152 100

115 45.8 24.6 73.8

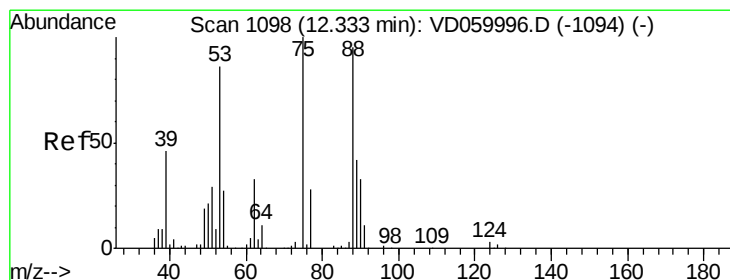
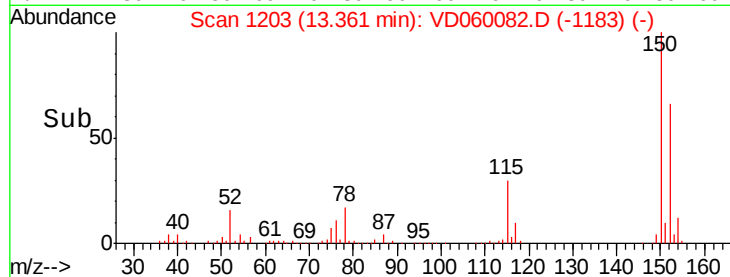
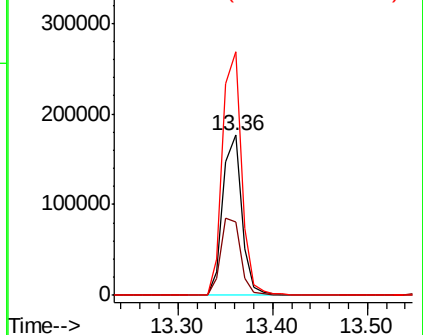
150 151.9 0.0 313.4



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: 55.624 ug/l

RT: 12.41 min Scan# 1106

Delta R.T. 0.07 min

Lab File: VD060082.D

Acq: 24 Sep 2018 15:15

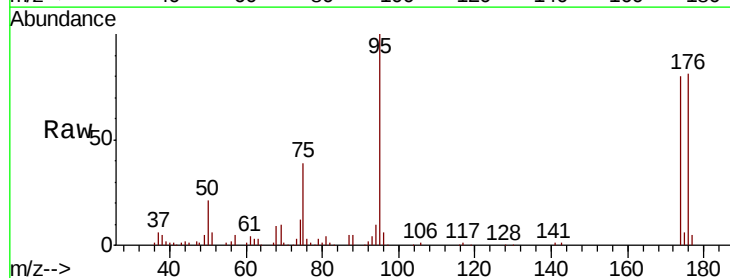
Tgt Ion: 75 Resp: 63513

Ion Ratio Lower Upper

75 100

53 0.0 68.4 102.6#

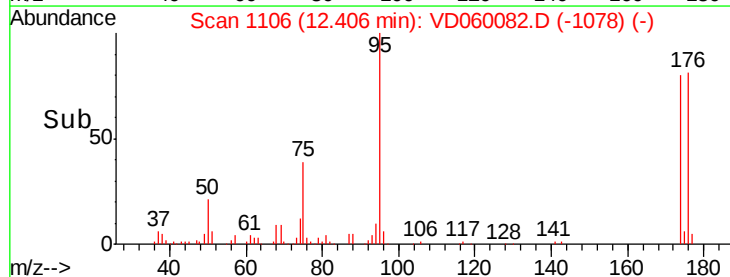
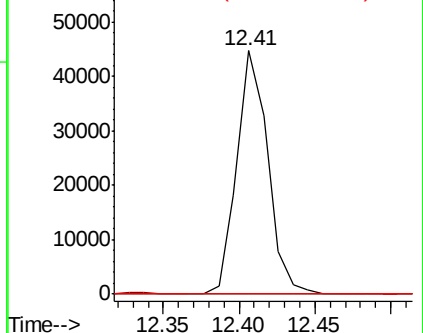
89 0.0 33.8 50.6#

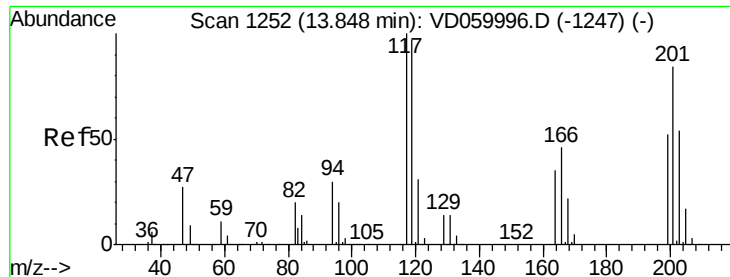


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

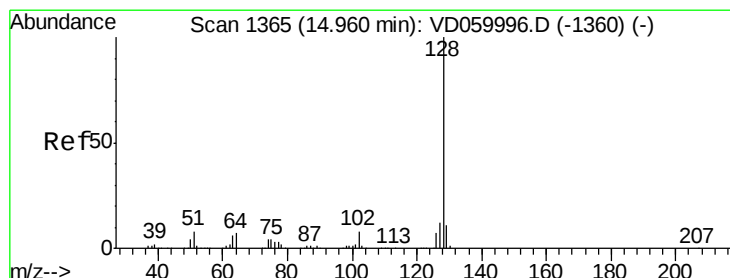
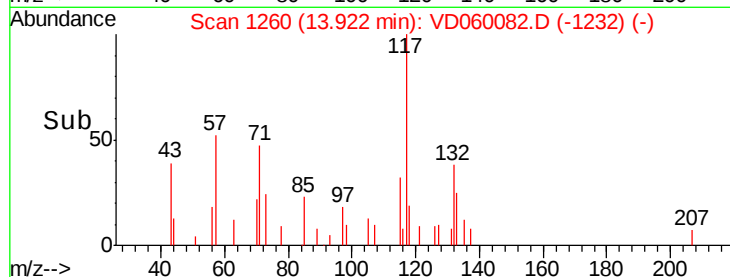
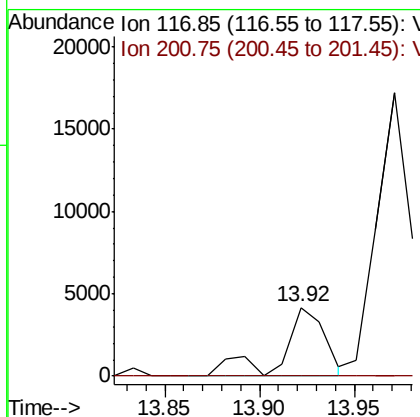
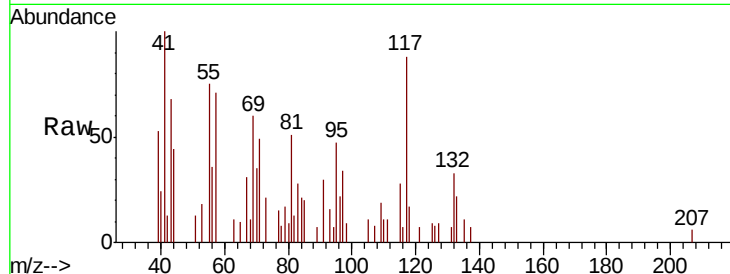




#90
Hexachloroethane
Concen: 1.893 ug/l
RT: 13.92 min Scan# 1260
Delta R.T. 0.07 min
Lab File: VD060082.D
Acq: 24 Sep 2018 15:15

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061RE

Tgt Ion:117 Resp: 6493
Ion Ratio Lower Upper
117 100
201 0.0 42.1 126.4#



#95
Naphthalene
Concen: 1.583 ug/l
RT: 14.95 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VD060082.D
Acq: 24 Sep 2018 15:15

Tgt Ion:128 Resp: 14179
Ion Ratio Lower Upper
128 100
127 16.5 9.7 14.5#
129 27.1 8.9 13.3#

