

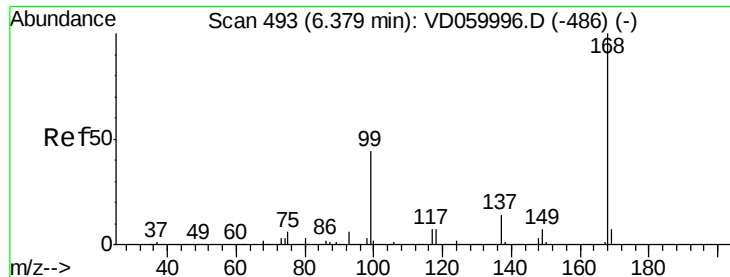
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092118\
 Data File : VD060072.D
 Acq On : 21 Sep 2018 15:35
 Operator : VA/AP
 Sample : J5017-06RE
 Misc : 5.14/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-060RE

Quant Time: Sep 22 00:51:35 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	6.39	168	522593	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	7.43	114	797521	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.27	117	628888	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	273510	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.77	65	286136	70.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	140.42%	
35) Dibromofluoromethane	6.30	113	305574	49.04	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.08%	
50) Toluene-d8	9.44	98	687247	39.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	79.60%	
62) 4-Bromofluorobenzene	12.42	95	255617	38.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	77.50%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.81	74	1063	1.160	ug/l	91
11) Tert butyl alcohol	3.93	59	1872	5.693	ug/l #	74
13) Acrolein	2.95	56	650	3.192	ug/l	87
16) Acetone	3.14	43	116307	147.817	ug/l	95
20) Methylene Chloride	3.71	84	90004	10.362	ug/l	95
25) 2-Butanone	5.61	43	55047	25.926	ug/l	97
29) Tetrahydrofuran	5.95	42	2835	2.490	ug/l #	47
31) Cyclohexane	6.38	56	9155	1.012	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	38513	4.861	ug/l #	45
37) Ethyl Acetate	5.61	43	55267	10.145	ug/l #	72
38) Carbon Tetrachloride	6.39	117	39897	5.395	ug/l #	16
51) 4-Methyl-2-Pentanone	9.34	43	3470	Below Cal	#	42
59) 2-Hexanone	10.49	43	1084	Below Cal	#	30
74) N-amyl acetate	12.08	43	12217	1.719	ug/l #	61
75) 1,1,2,2-Tetrachloroethane	12.57	83	4846	1.191	ug/l #	46
76) 1,2,3-Trichloropropane	12.42	75	90376	21.635	ug/l #	44
81) trans-1,4-Dichloro-2-buten	12.42	75	101927	80.833	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.09	105	20665	1.408	ug/l	95
89) n-Butylbenzene	13.65	91	6981	Below Cal		76
90) Hexachloroethane	13.94	117	11156	2.945	ug/l #	7
91) 1,2-Dichlorobenzene	13.66	146	509	Below Cal	#	1
95) Naphthalene	14.96	128	16102	1.628	ug/l #	52

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 495

Delta R.T. 0.01 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

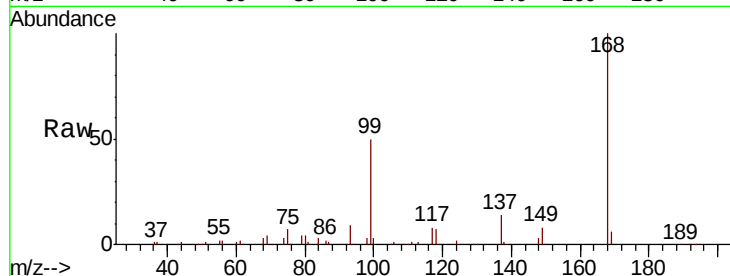
RA-091918-S-NW-060RE

Tot Ion:168 Resp: 522593

Ion Ratio Lower Upper

168 100

99 49.8 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.39

200000

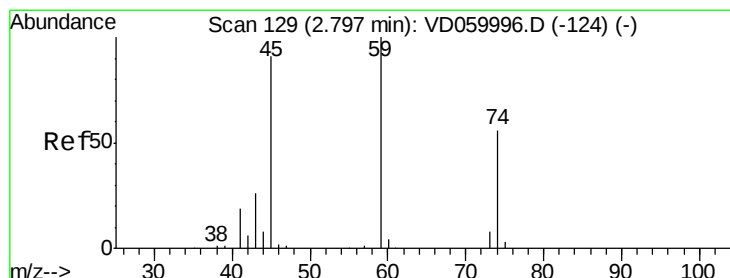
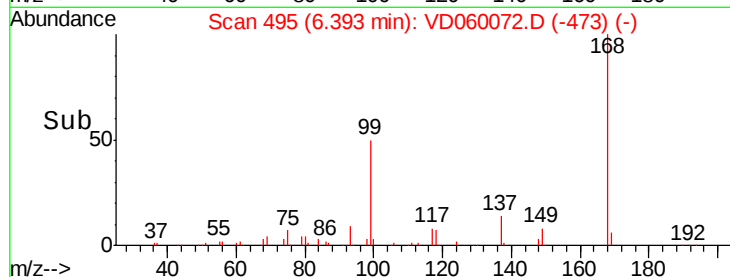
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.160 ug/l

RT: 2.81 min Scan# 131

Delta R.T. 0.01 min

Lab File: VD060072.D

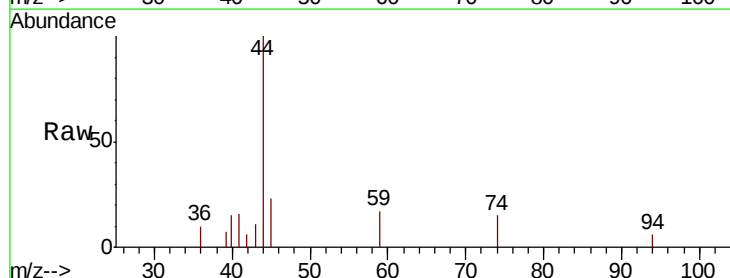
Acq: 21 Sep 2018 15:35

Tgt Ion: 74 Resp: 1063

Ion Ratio Lower Upper

74 100

45 150.3 81.2 243.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

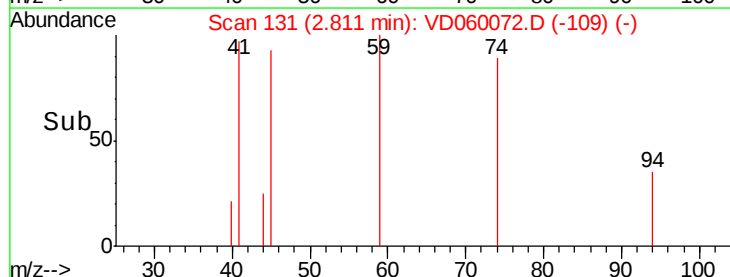
1500

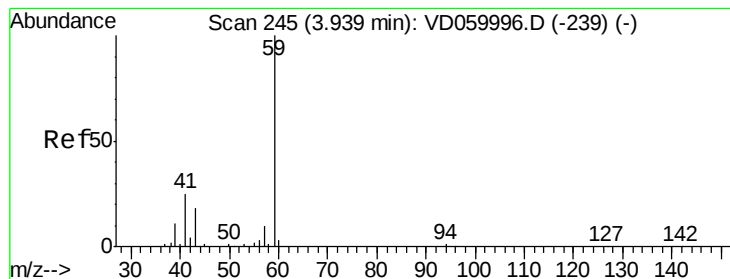
1000

500

0

Time-->



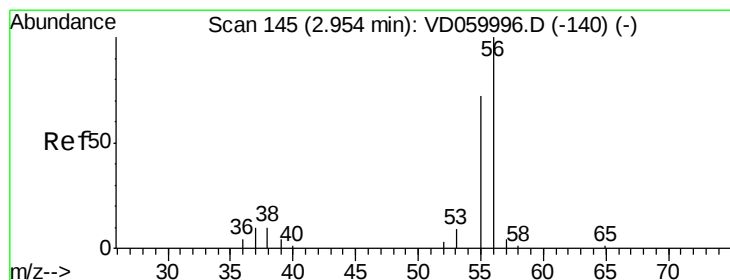
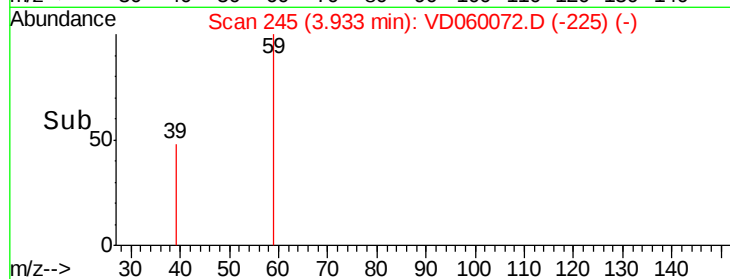
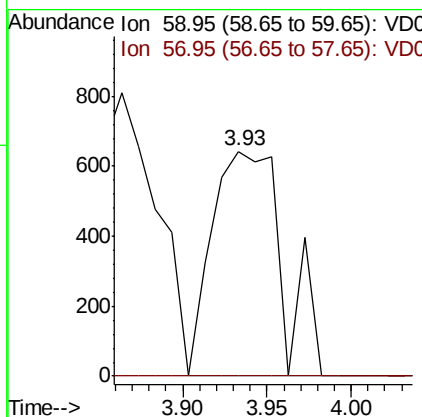
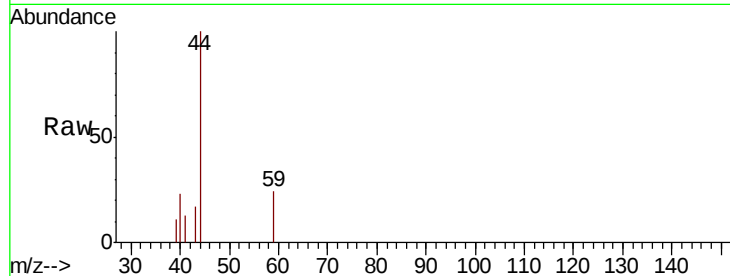


#11

Tert butyl alcohol
 Concen: 5.693 ug/l
 RT: 3.93 min Scan# 245
 Delta R.T. -0.01 min
 Lab File: VD060072.D
 Acq: 21 Sep 2018 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-060RE

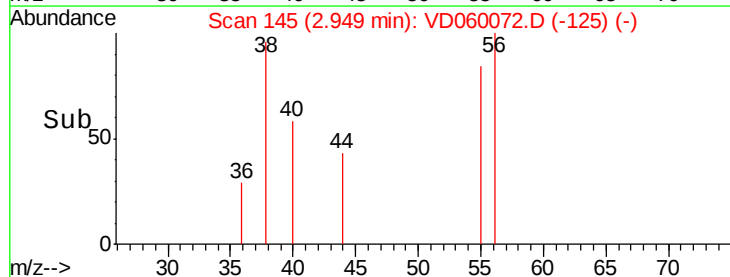
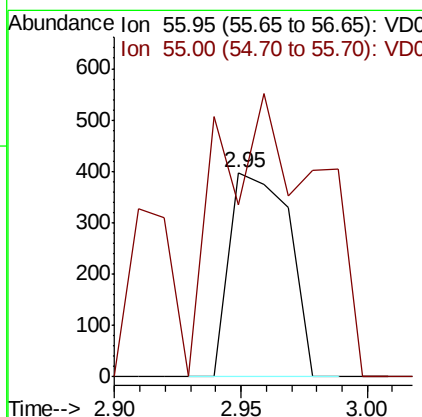
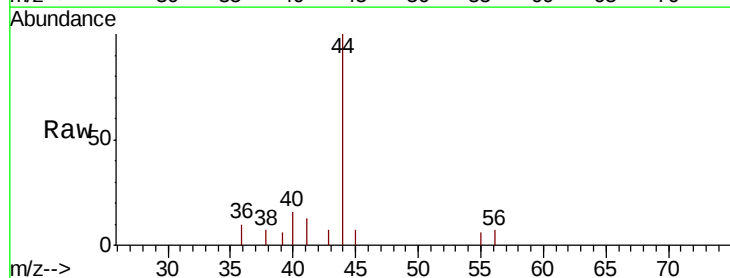
Tot Ion: 59 Resp: 1872
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.4 11.2#

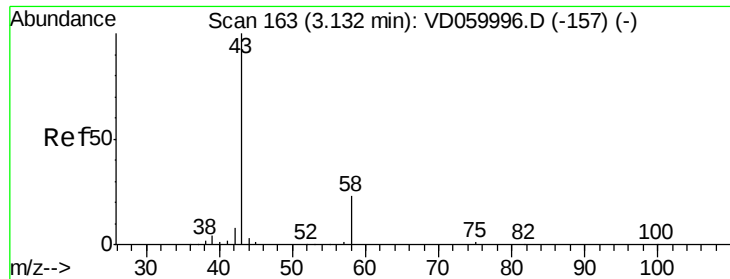


#13

Acrolein
 Concen: 3.192 ug/l
 RT: 2.95 min Scan# 145
 Delta R.T. -0.01 min
 Lab File: VD060072.D
 Acq: 21 Sep 2018 15:35

Tgt Ion: 56 Resp: 650
 Ion Ratio Lower Upper
 56 100
 55 84.1 58.3 87.5





#16

Acetone

Concen: 147.817 ug/l

RT: 3.14 min Scan# 164

Delta R.T. 0.00 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

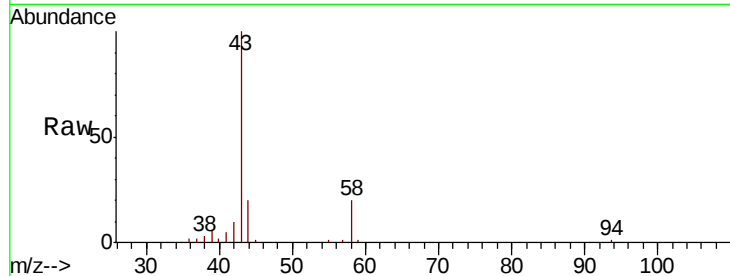
RA-091918-S-NW-060RE

Tot Ion: 43 Resp: 116307

Ion Ratio Lower Upper

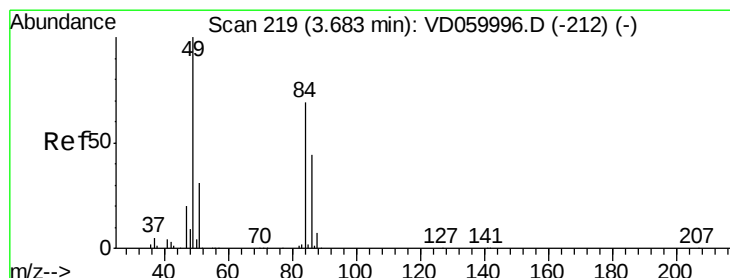
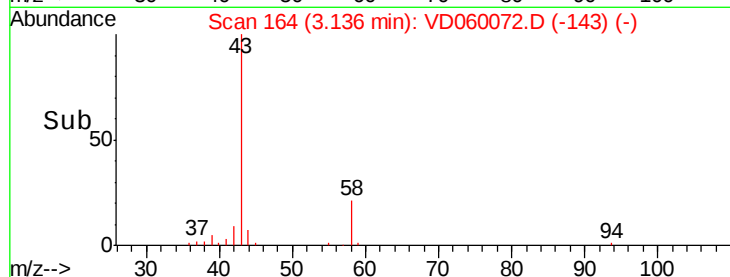
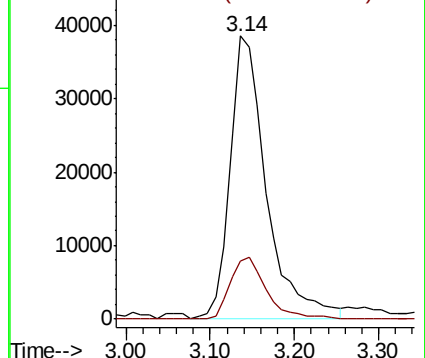
43 100

58 20.4 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 10.362 ug/l

RT: 3.71 min Scan# 222

Delta R.T. 0.02 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

Tgt Ion: 84 Resp: 90004

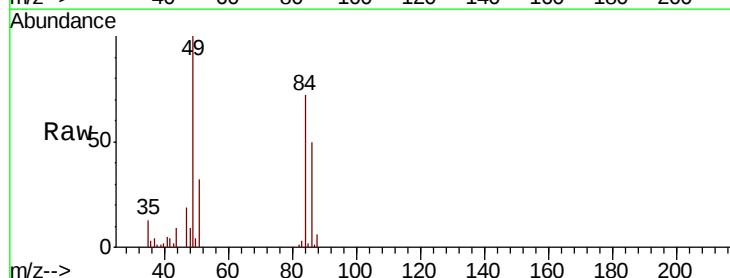
Ion Ratio Lower Upper

84 100

49 138.7 116.6 175.0

51 44.2 35.9 53.9

86 69.1 51.8 77.6

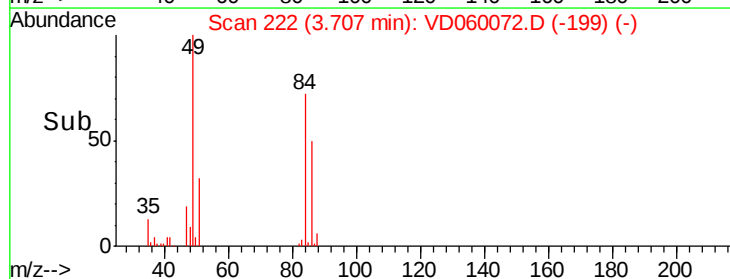
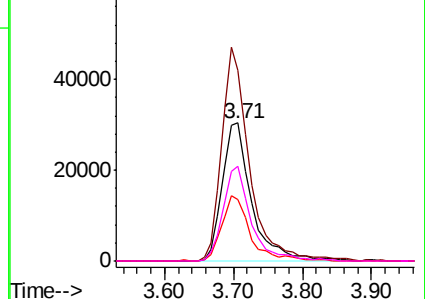


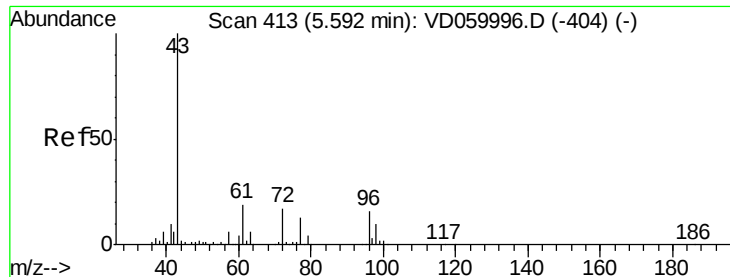
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 25.926 ug/l

RT: 5.61 min Scan# 415

Delta R.T. 0.02 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

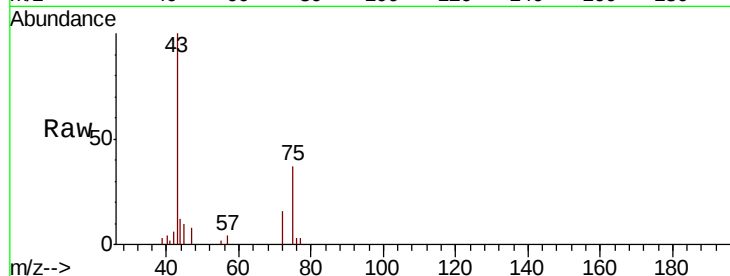
RA-091918-S-NW-060RE

Tot Ion: 43 Resp: 55047

Ion Ratio Lower Upper

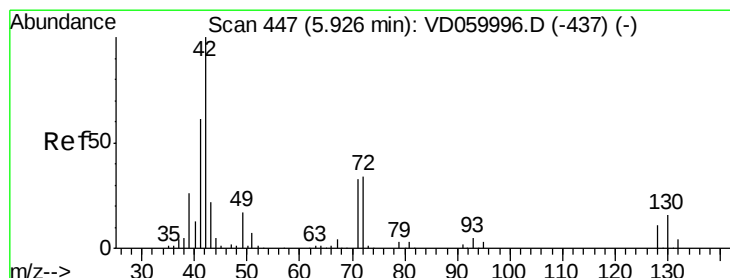
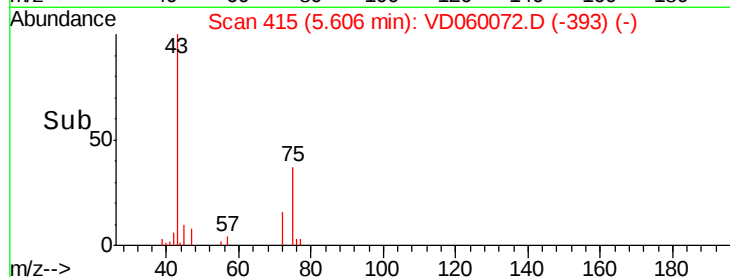
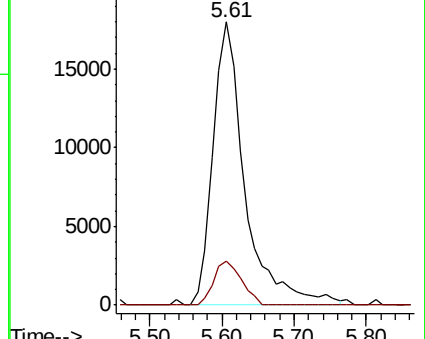
43 100

72 15.6 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: 2.490 ug/l

RT: 5.95 min Scan# 450

Delta R.T. 0.02 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

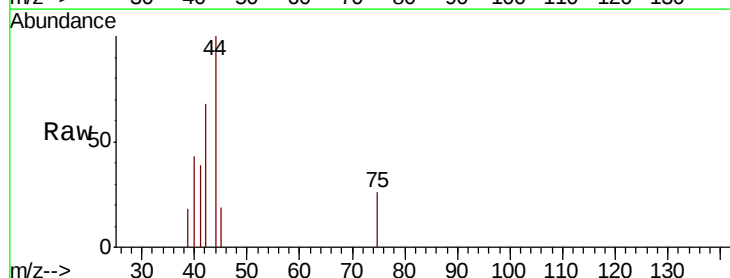
Tgt Ion: 42 Resp: 2835

Ion Ratio Lower Upper

42 100

72 0.0 26.9 40.3#

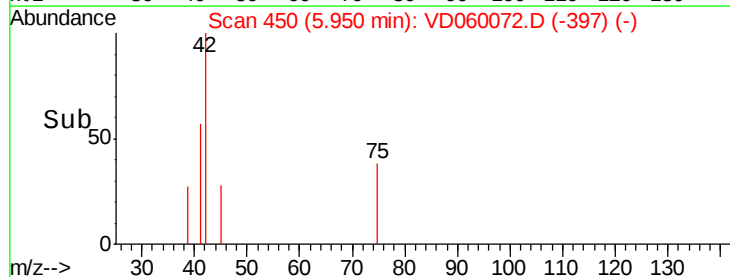
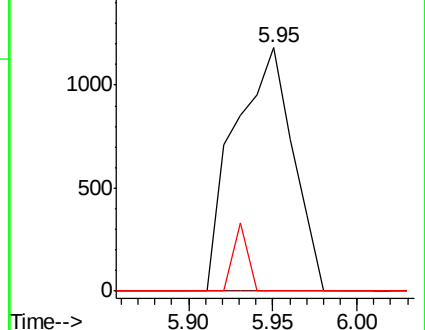
71 6.9 26.2 39.4#

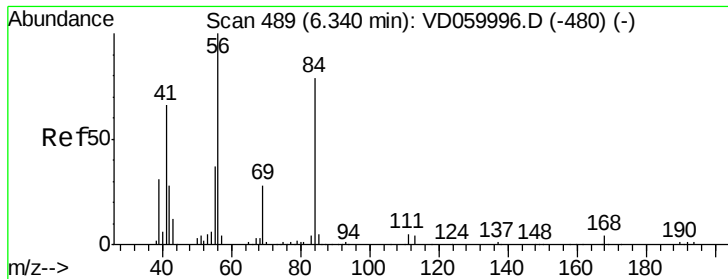


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

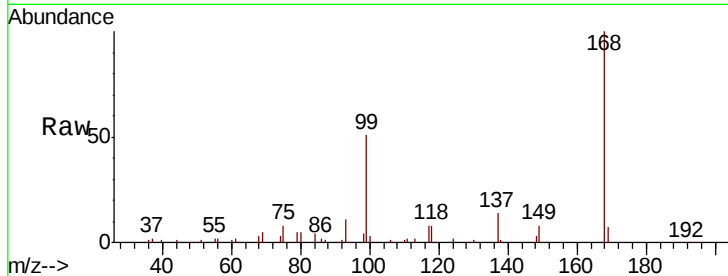




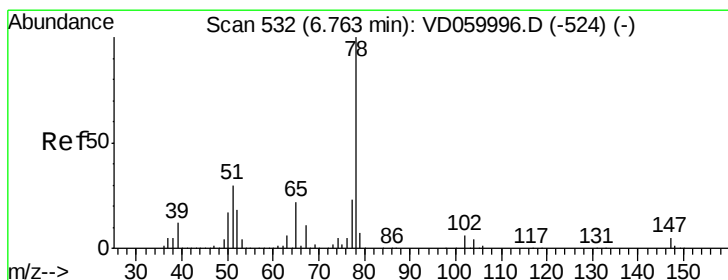
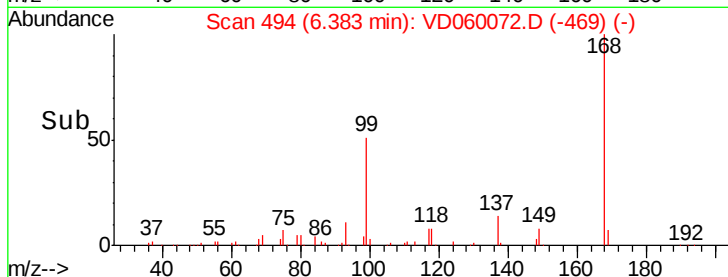
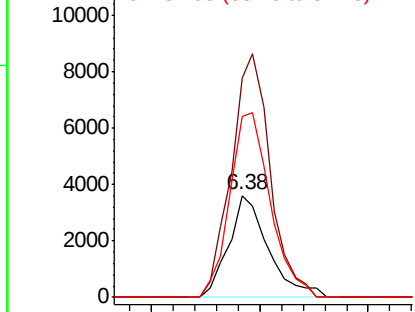
#31
Cyclohexane
Concen: 1.012 ug/l
RT: 6.38 min Scan# 494
Delta R.T. 0.04 min
Lab File: VD060072.D
Acq: 21 Sep 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-060RE

Tot Ion: 56 Resp: 9155
Ion Ratio Lower Upper
56 100
69 214.7 22.7 34.1#
84 177.2 64.0 96.0#

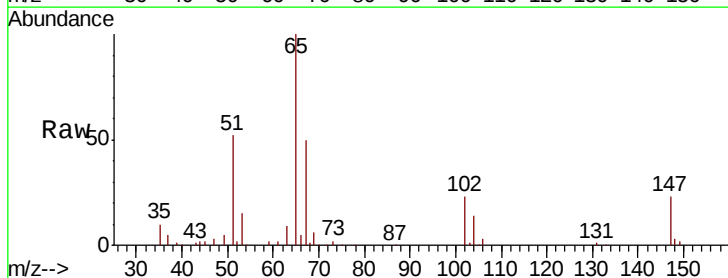


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

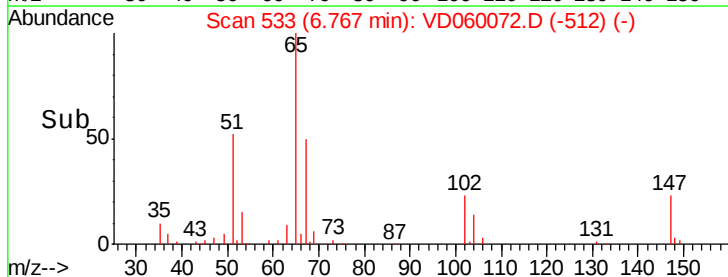
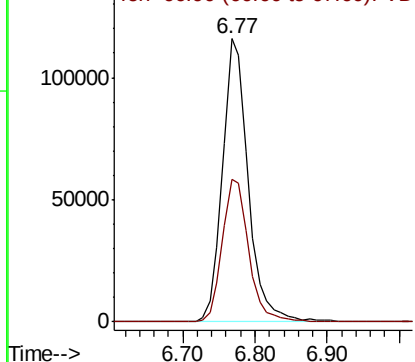


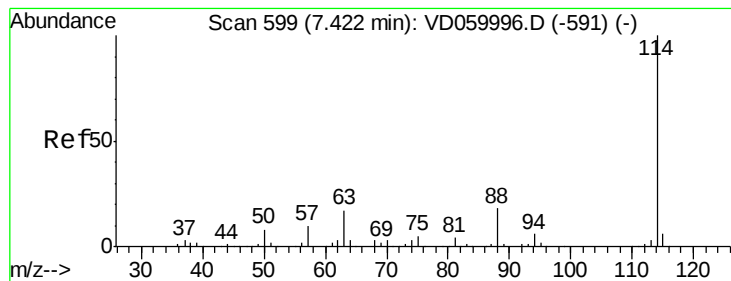
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.77 min Scan# 533
Delta R.T. 0.00 min
Lab File: VD060072.D
Acq: 21 Sep 2018 15:35

Tgt Ion: 65 Resp: 286136
Ion Ratio Lower Upper
65 100
67 50.3 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: 7.43 min Scan# 600

Delta R.T. 0.00 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-060RE

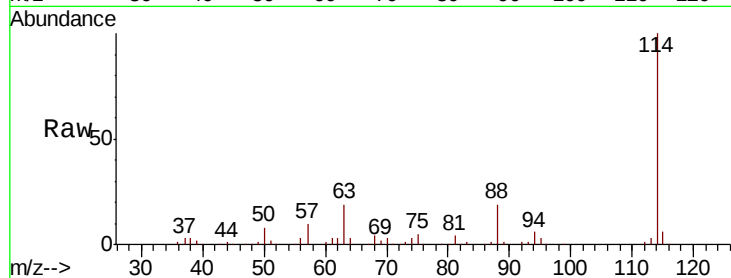
Tot Ion:114 Resp: 797521

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.4

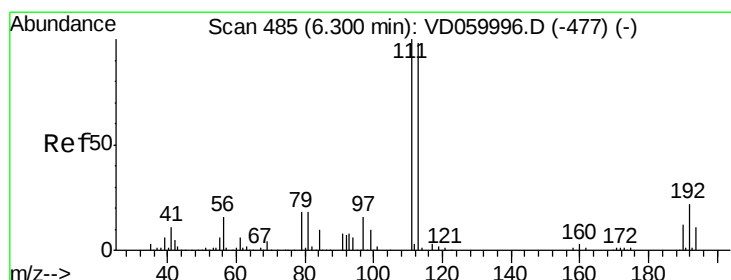
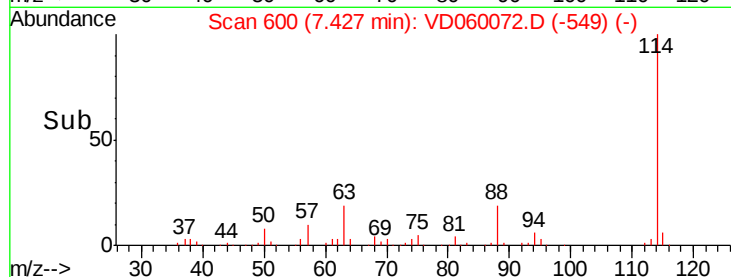
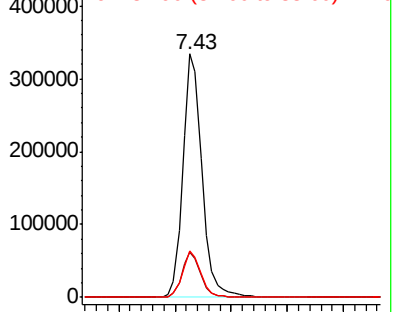
88 19.1 0.0 35.8



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: 6.30 min Scan# 486

Delta R.T. 0.00 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

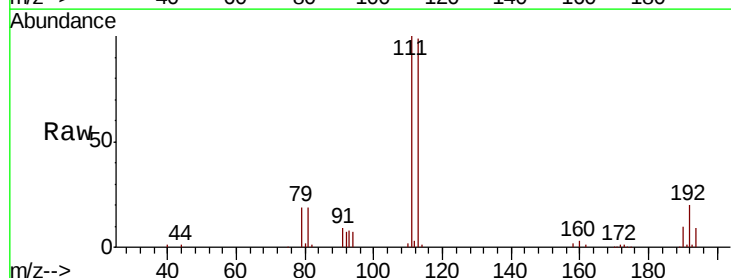
Tgt Ion:113 Resp: 305574

Ion Ratio Lower Upper

113 100

111 101.1 81.3 121.9

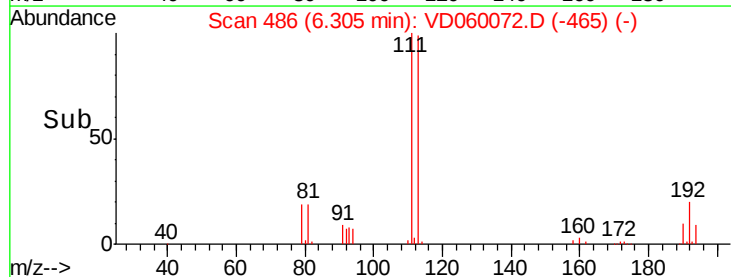
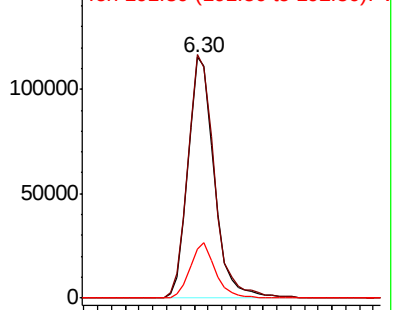
192 20.2 18.1 27.1

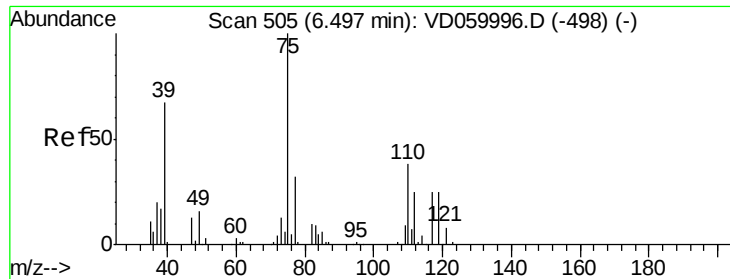


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.861 ug/l

RT: 6.39 min Scan# 495

Delta R.T. -0.10 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-060RE

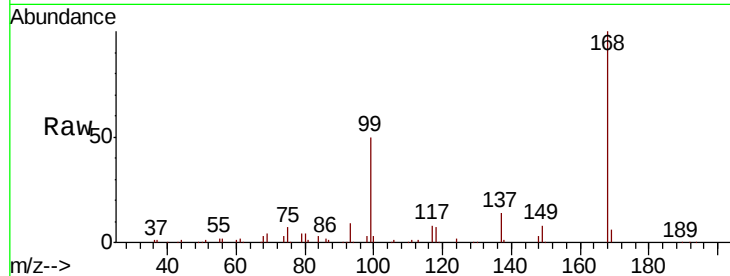
Tot Ion: 75 Resp: 38513

Ion Ratio Lower Upper

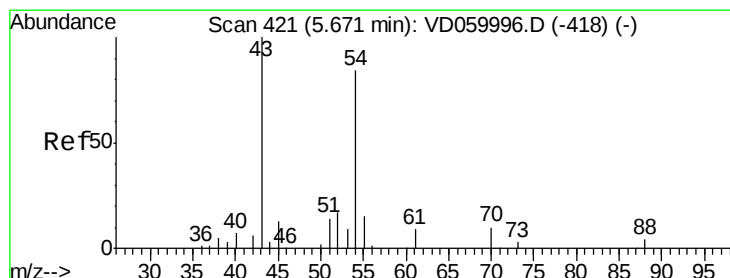
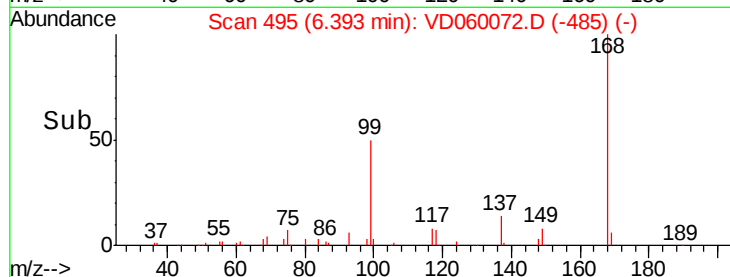
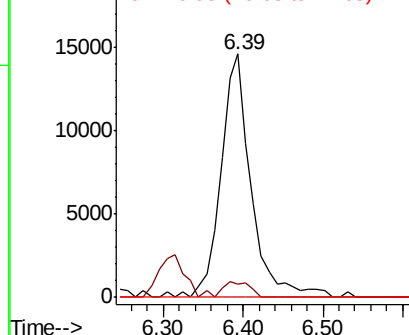
75 100

110 5.7 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: 10.145 ug/l

RT: 5.61 min Scan# 415

Delta R.T. -0.06 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

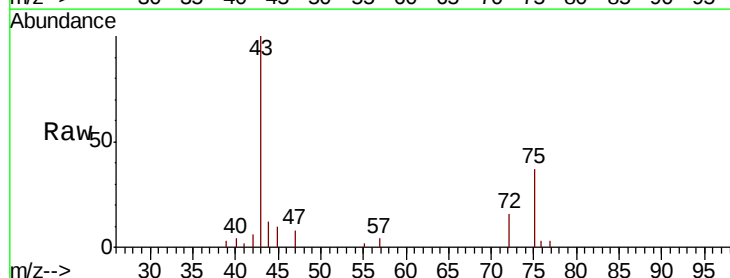
Tgt Ion: 43 Resp: 55267

Ion Ratio Lower Upper

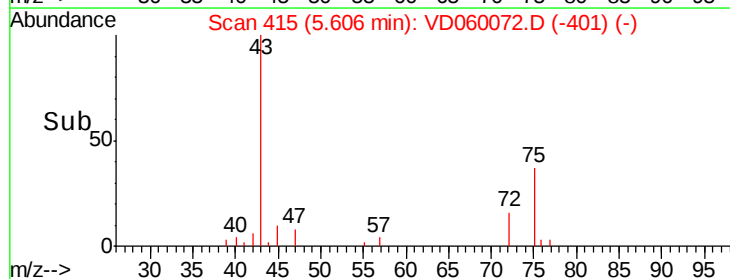
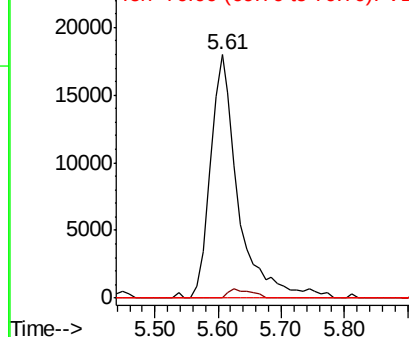
43 100

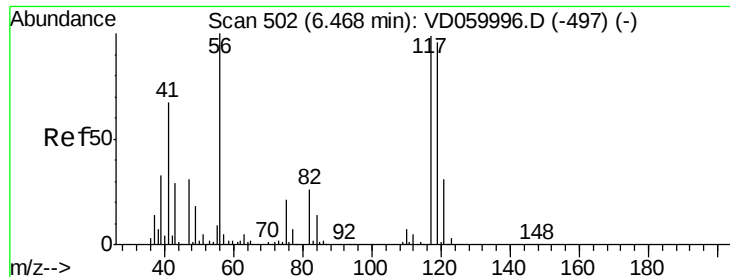
61 0.0 10.2 15.2#

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

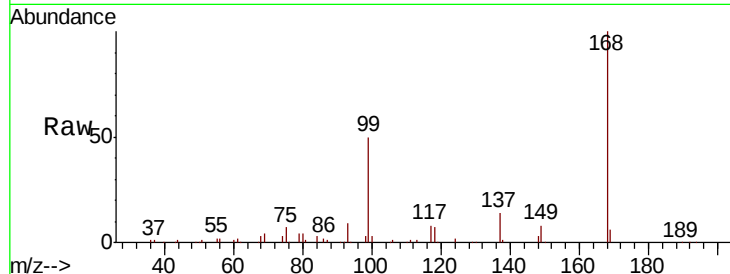




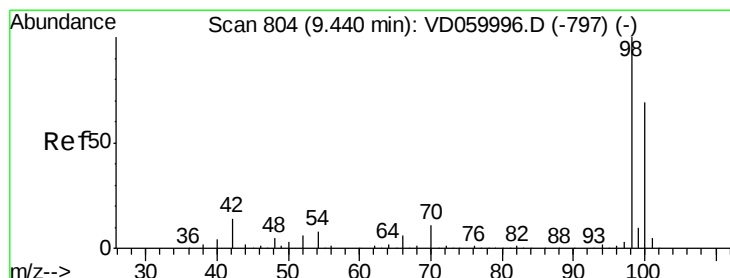
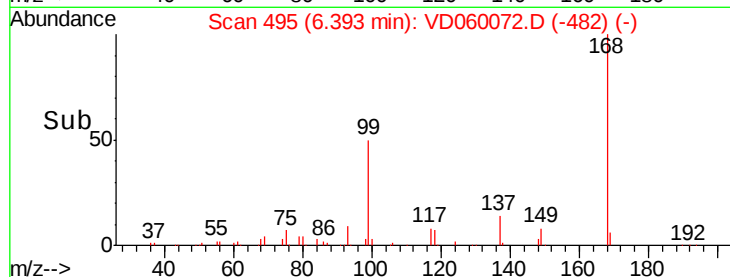
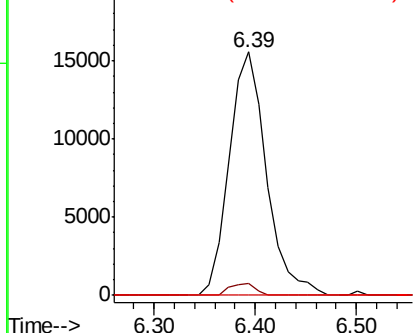
#38
Carbon Tetrachloride
Concen: 5.395 ug/l
RT: 6.39 min Scan# 495
Delta R.T. -0.07 min
Lab File: VD060072.D
Acq: 21 Sep 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-060RE

Tot Ion:117 Resp: 39897
Ion Ratio Lower Upper
117 100
119 4.9 76.7 115.1#
121 0.0 24.9 37.3#

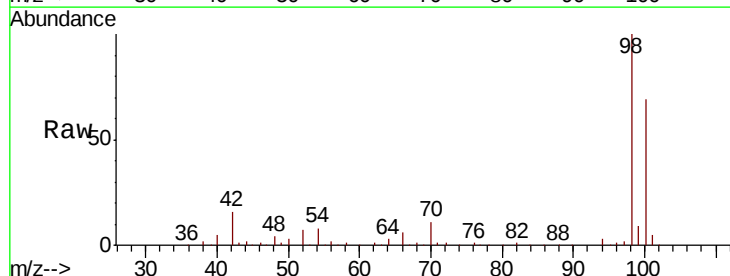


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

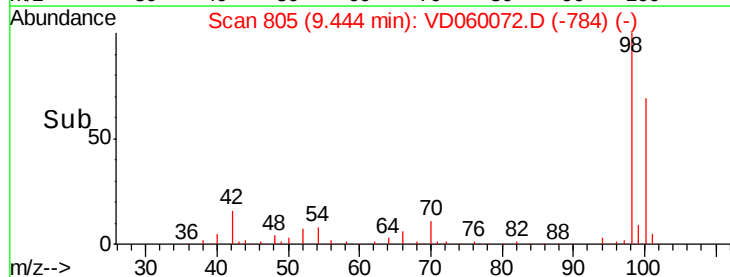
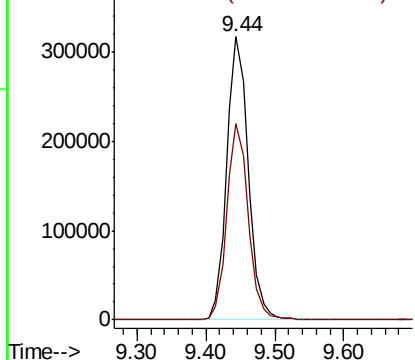


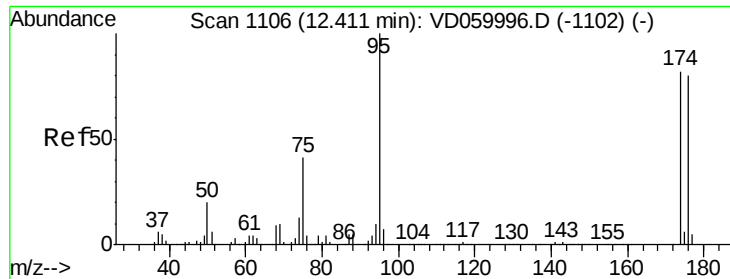
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.44 min Scan# 805
Delta R.T. 0.00 min
Lab File: VD060072.D
Acq: 21 Sep 2018 15:35

Tgt Ion: 98 Resp: 687247
Ion Ratio Lower Upper
98 100
100 69.2 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: 12.42 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-060RE

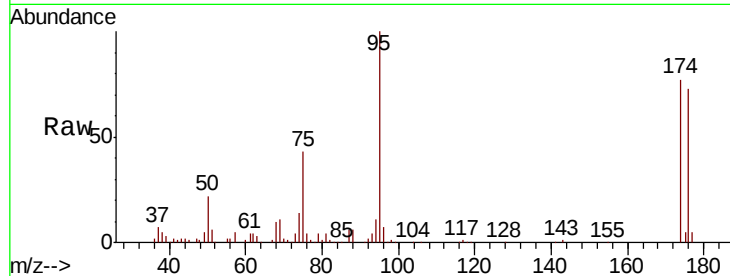
Tot Ion: 95 Resp: 255617

Ion Ratio Lower Upper

95 100

174 76.6 0.0 165.0

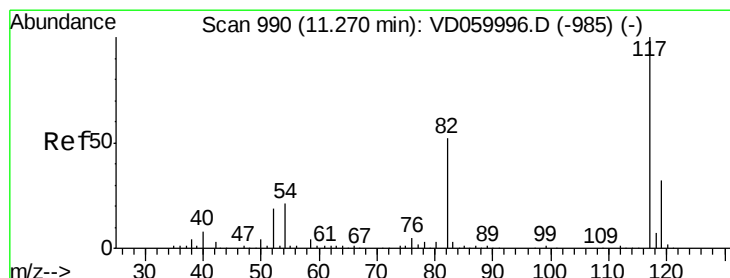
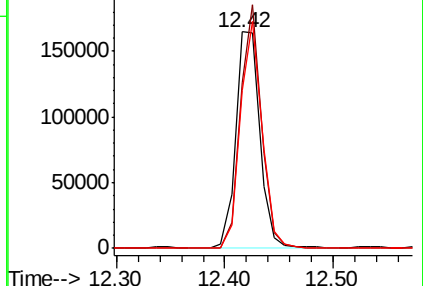
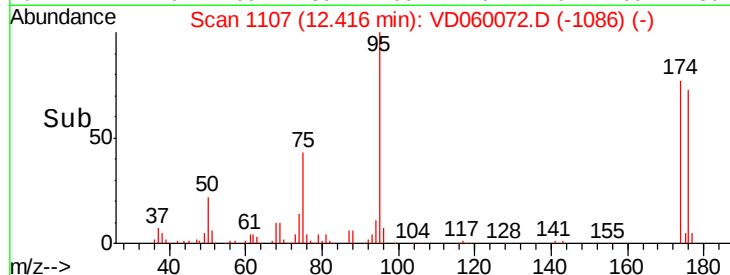
176 72.9 0.0 160.2



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: 11.27 min Scan# 991

Delta R.T. 0.00 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

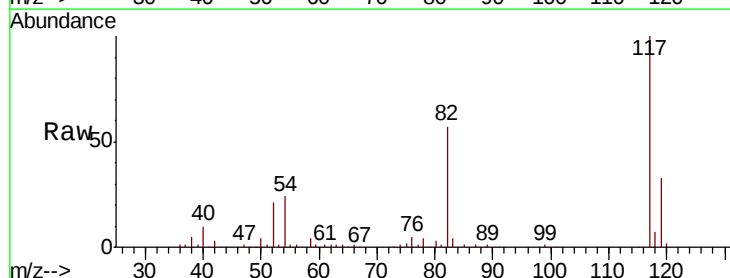
Tgt Ion: 117 Resp: 628888

Ion Ratio Lower Upper

117 100

82 57.1 41.7 62.5

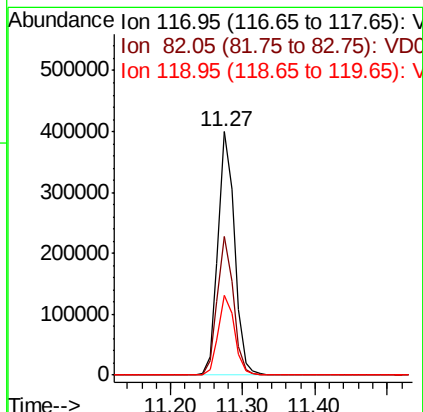
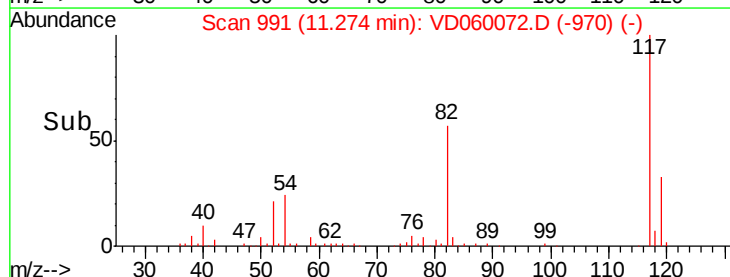
119 32.8 26.0 39.0

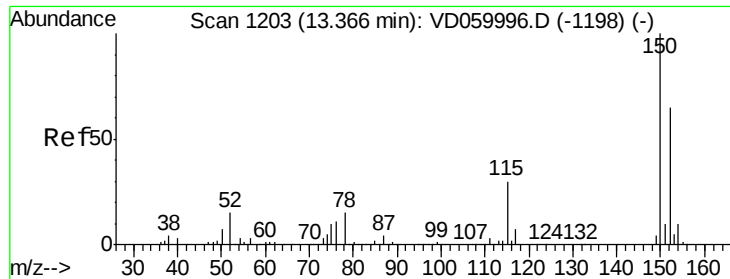


Abundance Ion 116.95 (116.65 to 117.65): V

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: 13.37 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-060RE

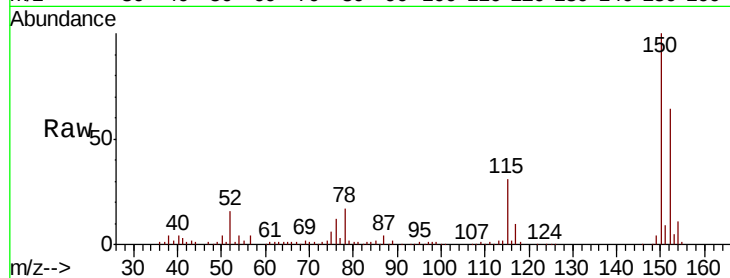
Tot Ion:152 Resp: 273510

Ion Ratio Lower Upper

152 100

115 47.3 24.6 73.8

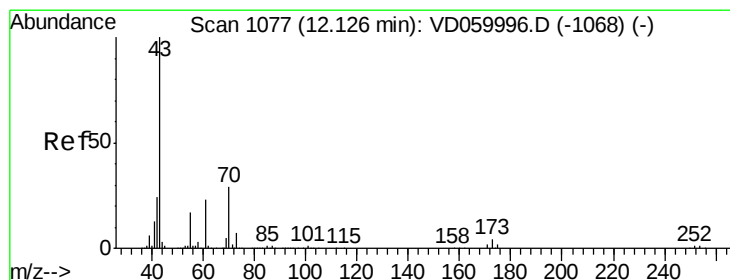
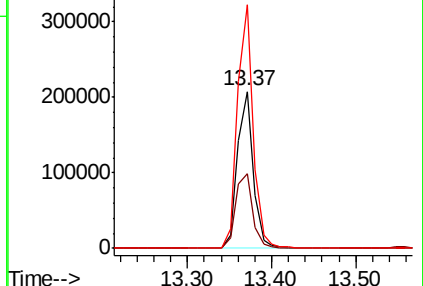
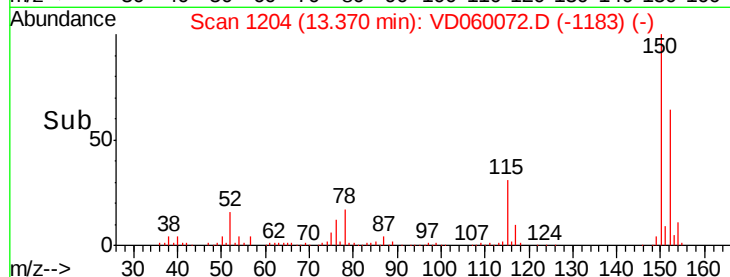
150 155.1 0.0 313.4



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



#74

N-ethyl acetate

Concen: 1.719 ug/l

RT: 12.08 min Scan# 1073

Delta R.T. -0.04 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

Tgt Ion: 43 Resp: 12217

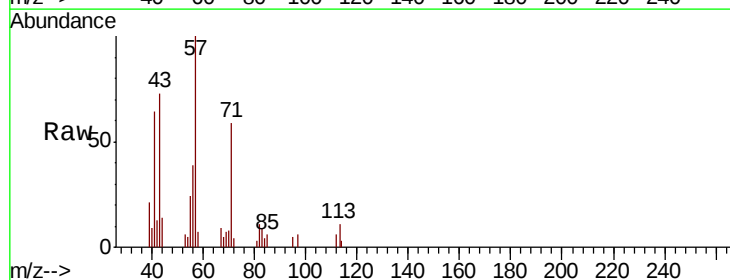
Ion Ratio Lower Upper

43 100

70 10.5 22.9 34.3#

55 32.1 14.0 21.0#

61 0.0 18.7 28.1#

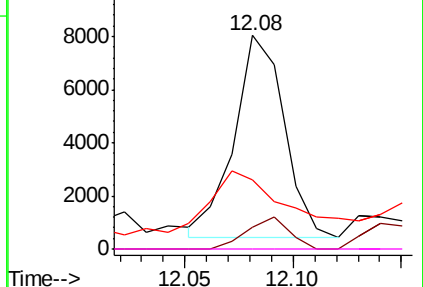
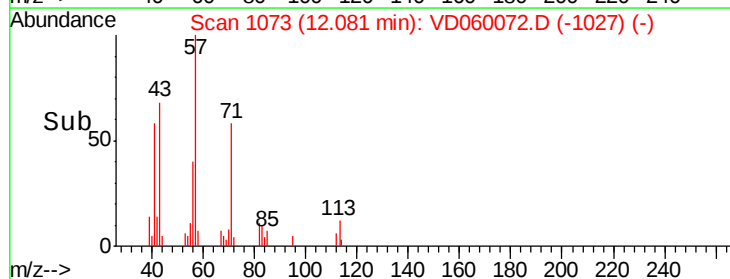


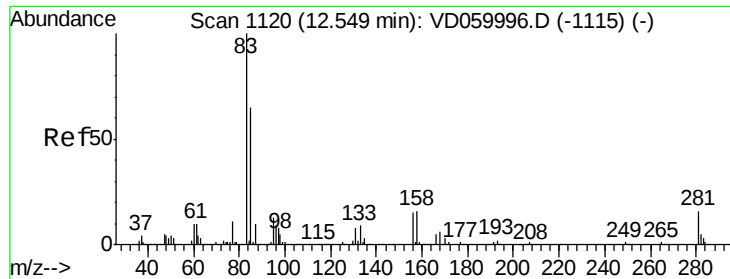
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 1.191 ug/l

RT: 12.57 min Scan# 1123

Delta R.T. 0.02 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-060RE

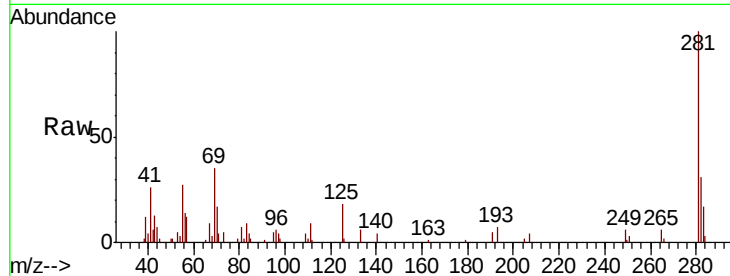
Tot Ion: 83 Resp: 4846

Ion Ratio Lower Upper

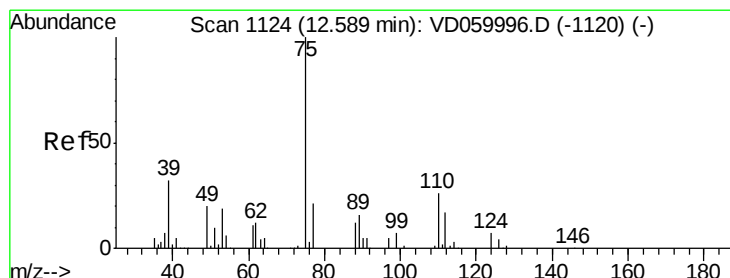
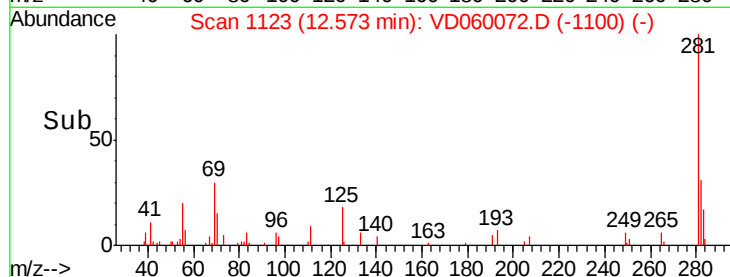
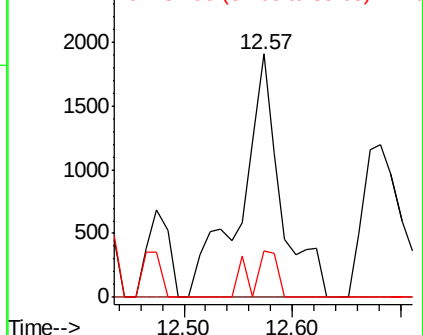
83 100

131 0.0 4.1 12.3#

85 18.9 32.4 97.2#



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 21.635 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.17 min

Lab File: VD060072.D

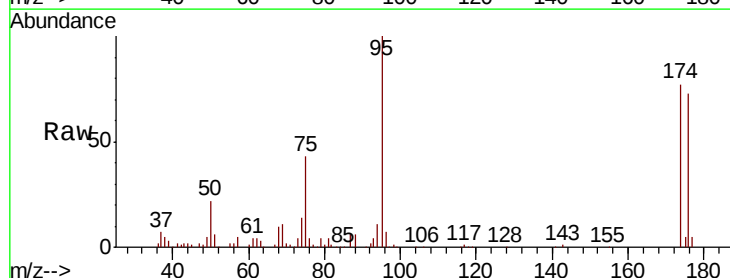
Acq: 21 Sep 2018 15:35

Tgt Ion: 75 Resp: 90376

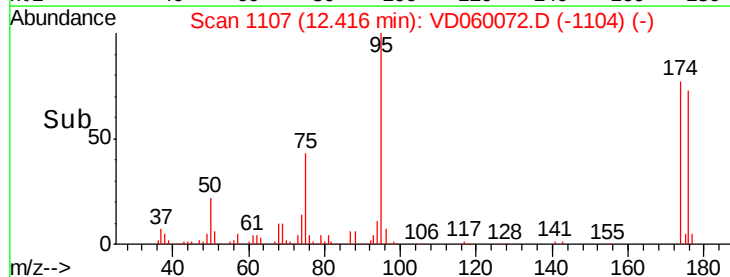
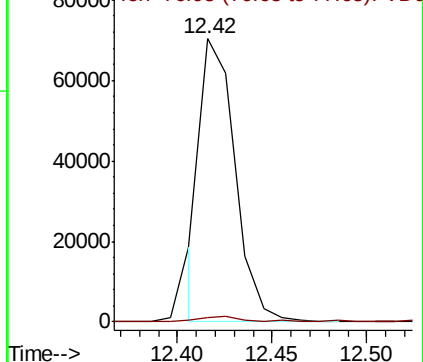
Ion Ratio Lower Upper

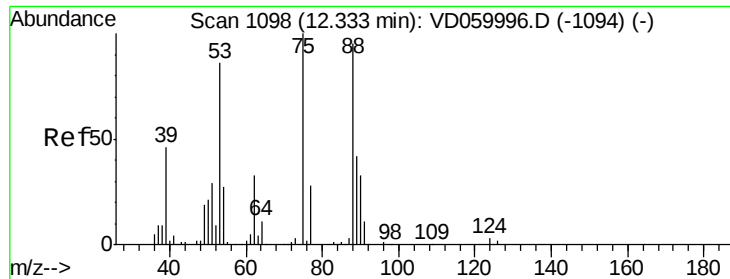
75 100

77 1.4 16.4 49.4#



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

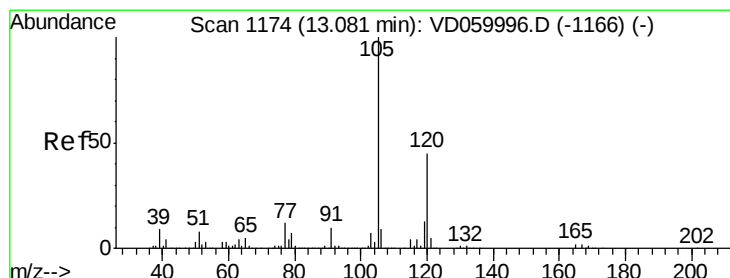
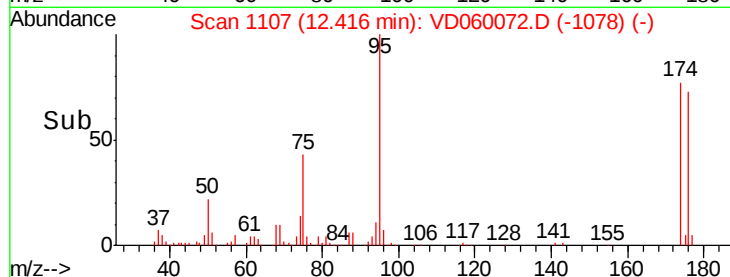
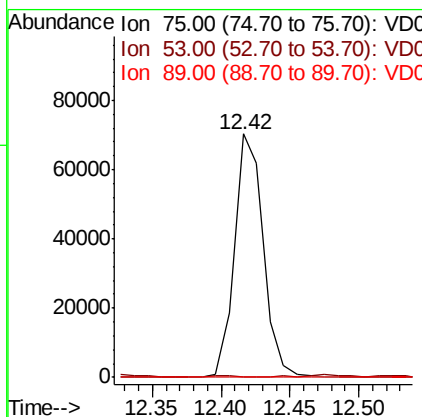
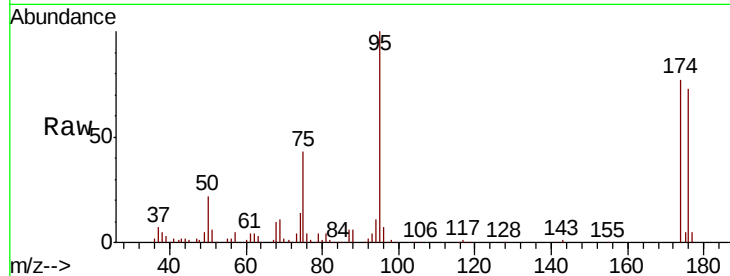




#81
trans-1,4-Dichloro-2-butene
Concen: 80.833 ug/l
RT: 12.42 min Scan# 1107
Delta R.T. 0.08 min
Lab File: VD060072.D
Acq: 21 Sep 2018 15:35

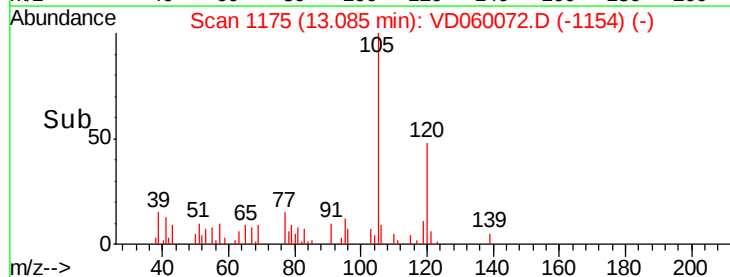
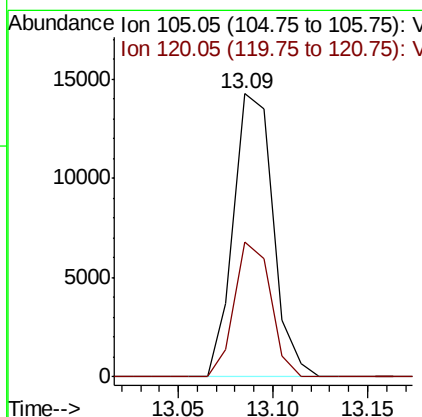
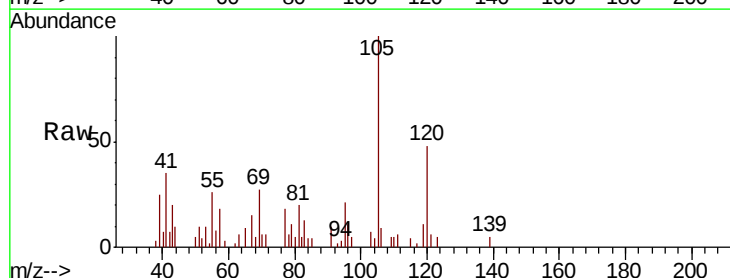
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-060RE

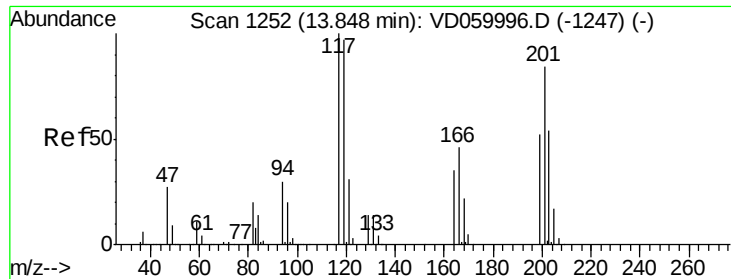
Tot Ion: 75 Resp: 101927
Ion Ratio Lower Upper
75 100
53 0.0 68.4 102.6#
89 0.0 33.8 50.6#



#84
1,2,4-Trimethylbenzene
Concen: 1.408 ug/l
RT: 13.09 min Scan# 1175
Delta R.T. 0.00 min
Lab File: VD060072.D
Acq: 21 Sep 2018 15:35

Tgt Ion:105 Resp: 20665
Ion Ratio Lower Upper
105 100
120 47.7 22.4 67.0





#90

Hexachloroethane

Concen: 2.945 ug/l

RT: 13.94 min Scan# 1262

Delta R.T. 0.09 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

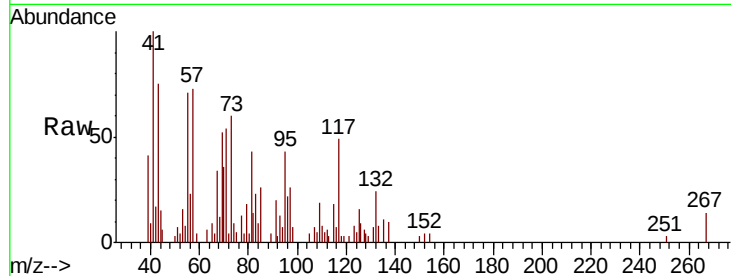
RA-091918-S-NW-060RE

Tot Ion:117 Resp: 11156

Ion Ratio Lower Upper

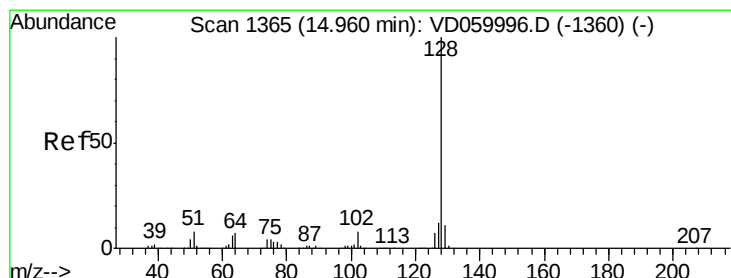
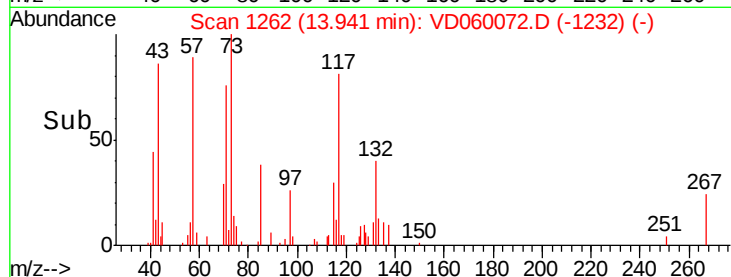
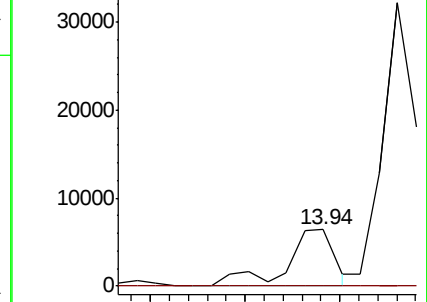
117 100

201 0.0 42.1 126.4#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#95

Naphthalene

Concen: 1.628 ug/l

RT: 14.96 min Scan# 1366

Delta R.T. 0.00 min

Lab File: VD060072.D

Acq: 21 Sep 2018 15:35

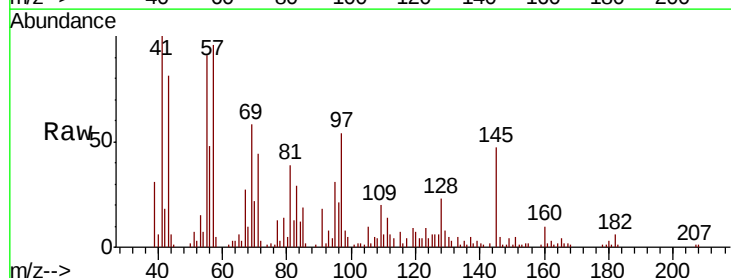
Tgt Ion:128 Resp: 16102

Ion Ratio Lower Upper

128 100

127 24.0 9.7 14.5#

129 36.3 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

