

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092118\
 Data File : VD060073.D
 Acq On : 21 Sep 2018 16:03
 Operator : VA/AP
 Sample : J5017-07RE
 Misc : 5.09/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Sep 22 00:52:19 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	6.40	168	991681	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	7.43	114	1435031	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	991788	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	369424	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.77	65	358134	46.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.62%	
35) Dibromofluoromethane	6.31	113	496335	44.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.54%	
50) Toluene-d8	9.45	98	1175948	37.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.70%	
62) 4-Bromofluorobenzene	12.42	95	377838	31.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	63.66%	

Target Compounds

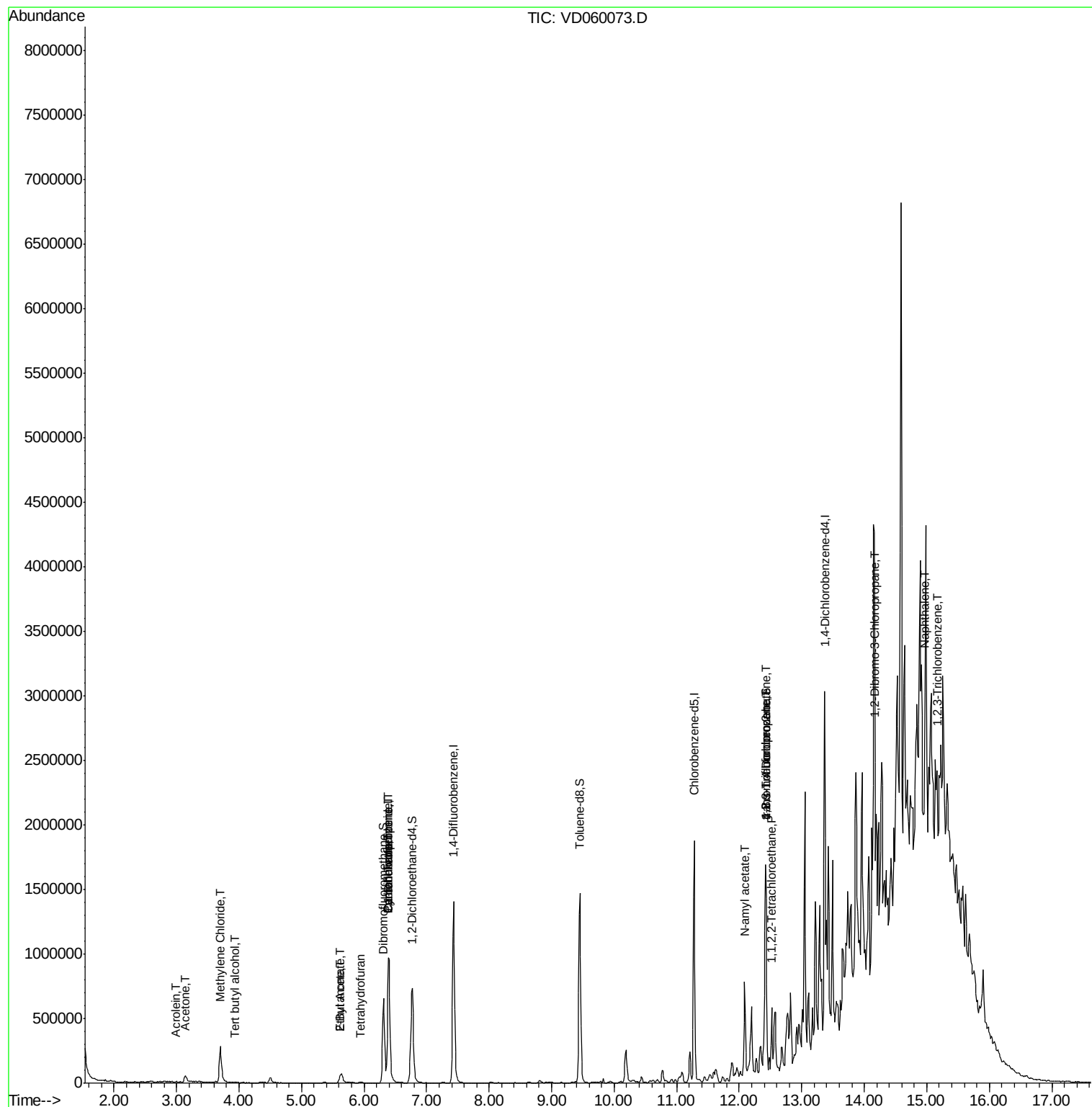
						Qvalue
11) Tert butyl alcohol	3.93	59	2225	3.566	ug/l #	74
13) Acrolein	2.97	56	622	1.610	ug/l #	62
16) Acetone	3.14	43	103236	69.142	ug/l	100
20) Methylene Chloride	3.70	84	160503	9.230	ug/l	98
25) 2-Butanone	5.60	43	61496	15.263	ug/l	98
29) Tetrahydrofuran	5.94	42	2255	1.044	ug/l #	60
31) Cyclohexane	6.39	56	21055	1.226	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	71914	5.045	ug/l #	45
37) Ethyl Acetate	5.60	43	61673	6.291	ug/l #	72
38) Carbon Tetrachloride	6.39	117	76035	5.714	ug/l #	14
51) 4-Methyl-2-Pentanone	9.38	43	1568	Below Cal		89
59) 2-Hexanone	10.43	43	27916	Below Cal	#	33
74) N-amyl acetate	12.09	43	152379	15.878	ug/l #	66
75) 1,1,2,2-Tetrachloroethane	12.53	83	6906	1.256	ug/l #	90
76) 1,2,3-Trichloropropane	12.42	75	110371	19.562	ug/l #	45
81) trans-1,4-Dichloro-2-buten	12.42	75	148422	87.145	ug/l #	18
89) n-Butylbenzene	13.64	91	36372	Below Cal		93
91) 1,2-Dichlorobenzene	13.66	146	474	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	14.18	75	1797	2.145	ug/l #	2
95) Naphthalene	14.96	128	13523	1.012	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.18	180	7880	1.034	ug/l	67

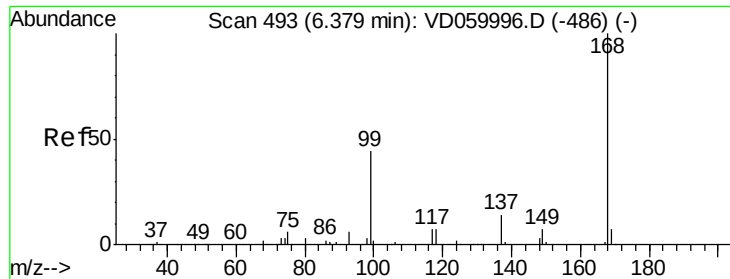
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 495

Delta R.T. 0.02 min

Lab File: VD060073.D

Acq: 21 Sep 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

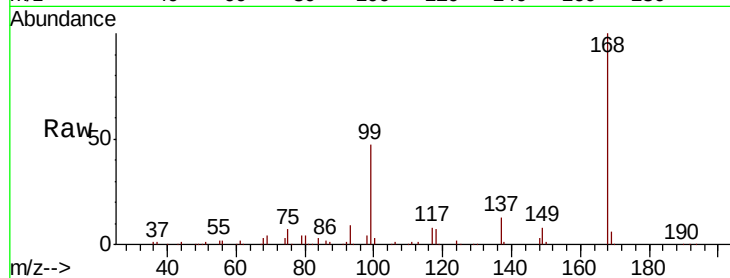
RA-091918-S-NW-061RE

Tot Ion:168 Resp: 991681

Ion Ratio Lower Upper

168 100

99 46.6 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.40

400000

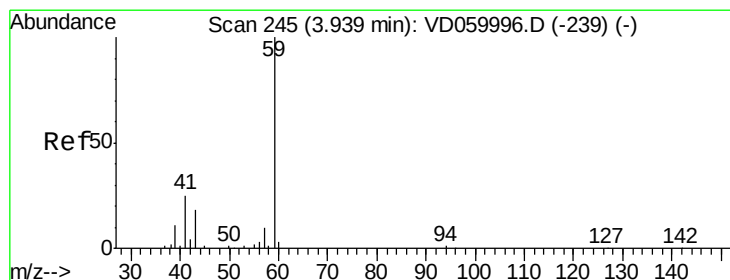
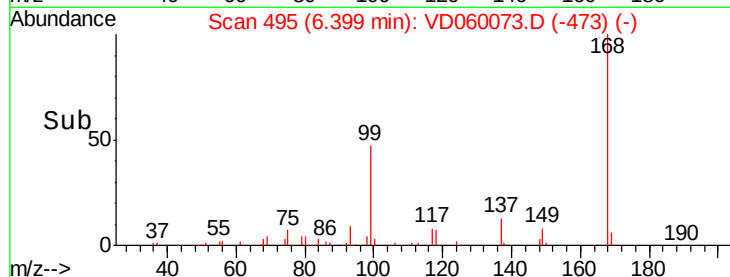
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.566 ug/l

RT: 3.93 min Scan# 244

Delta R.T. -0.01 min

Lab File: VD060073.D

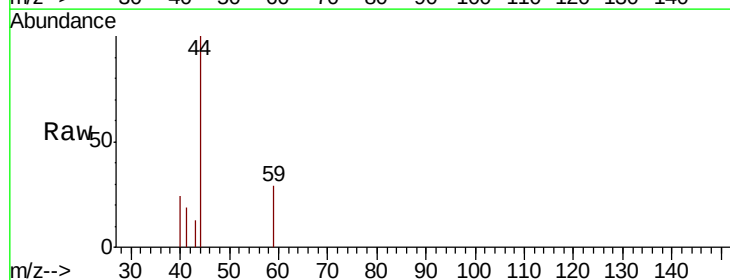
Acq: 21 Sep 2018 16:03

Tgt Ion: 59 Resp: 2225

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.93

800

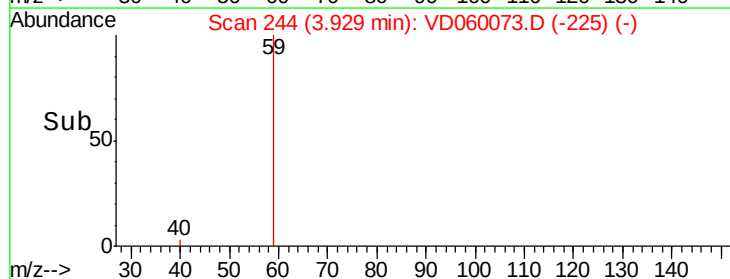
600

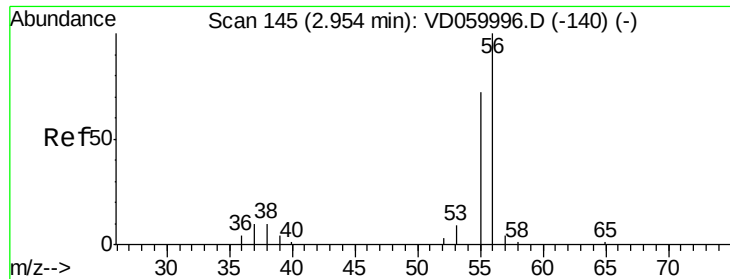
400

200

0

Time-->





#13

Acrolein

Concen: 1.610 ug/l

RT: 2.97 min Scan# 147

Delta R.T. 0.02 min

Lab File: VD060073.D

Acq: 21 Sep 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

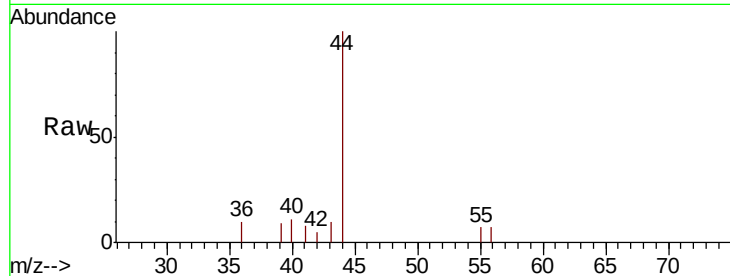
RA-091918-S-NW-061RE

Tot Ion: 56 Resp: 622

Ion Ratio Lower Upper

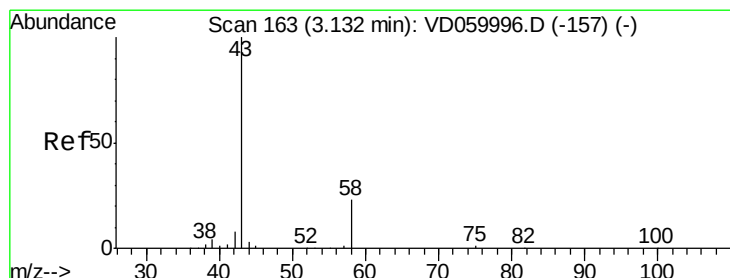
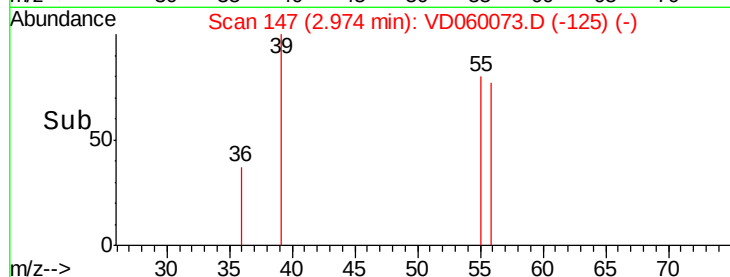
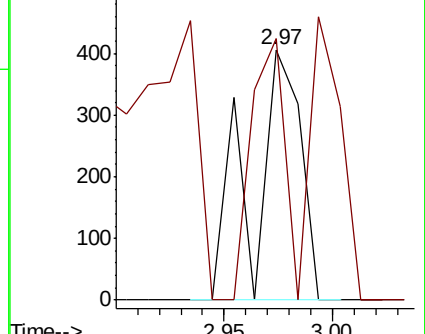
56 100

55 104.7 58.3 87.5#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 69.142 ug/l

RT: 3.14 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD060073.D

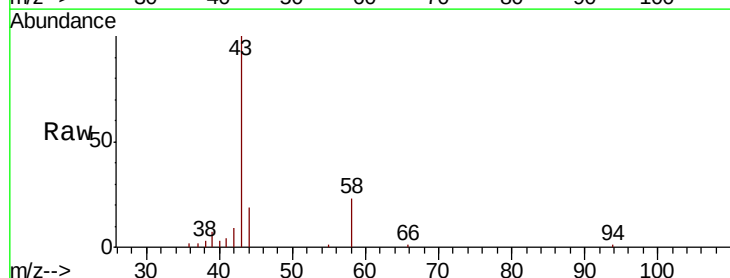
Acq: 21 Sep 2018 16:03

Tgt Ion: 43 Resp: 103236

Ion Ratio Lower Upper

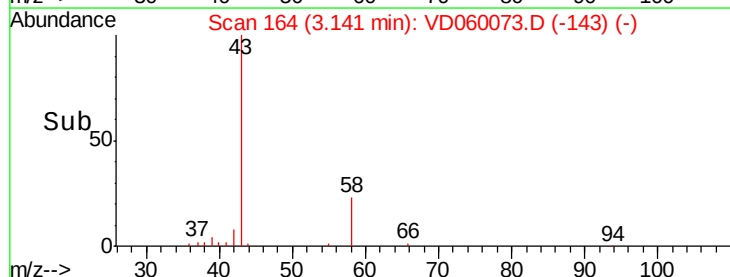
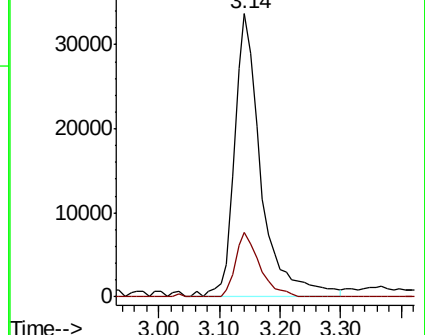
43 100

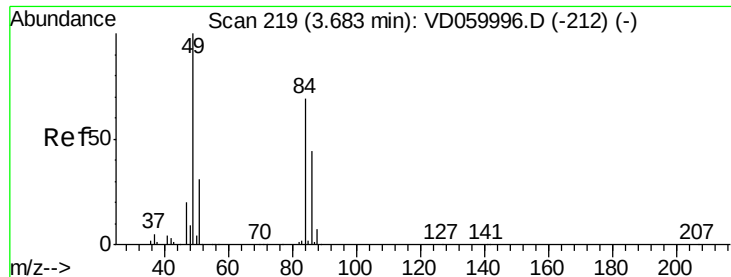
58 22.8 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

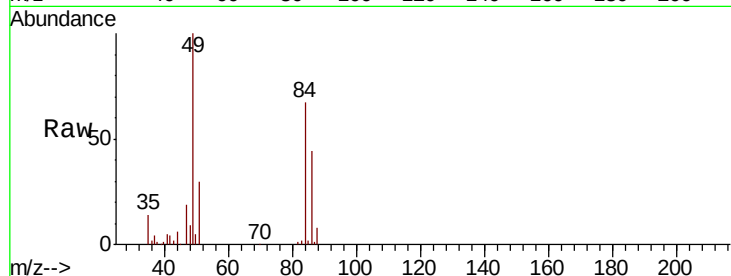




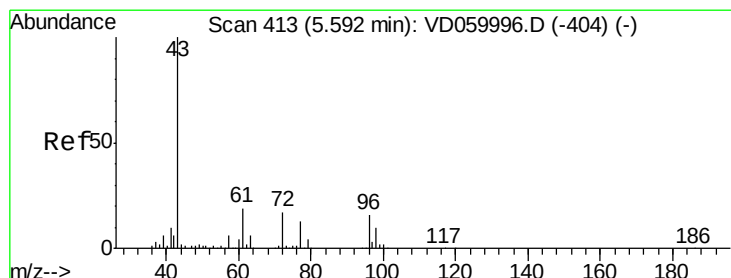
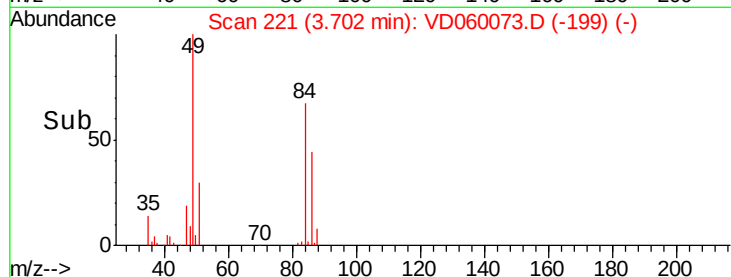
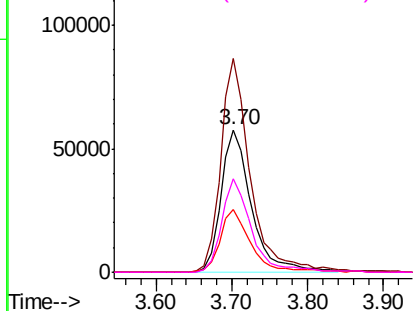
#20
Methylene Chloride
Concen: 9.230 ug/l
RT: 3.70 min Scan# 221
Delta R.T. 0.02 min
Lab File: VD060073.D
Acq: 21 Sep 2018 16:03

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

Tot Ion: 84 Resp: 160503
Ion Ratio Lower Upper
84 100
49 149.8 116.6 175.0
51 44.3 35.9 53.9
86 65.8 51.8 77.6

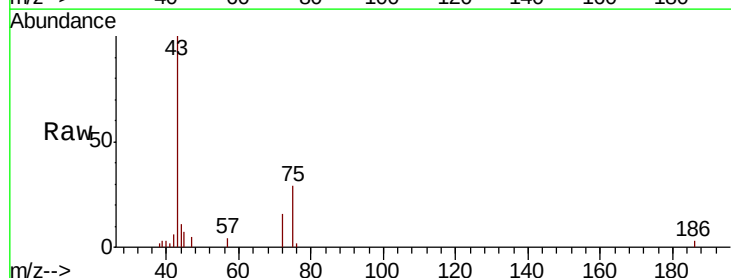


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

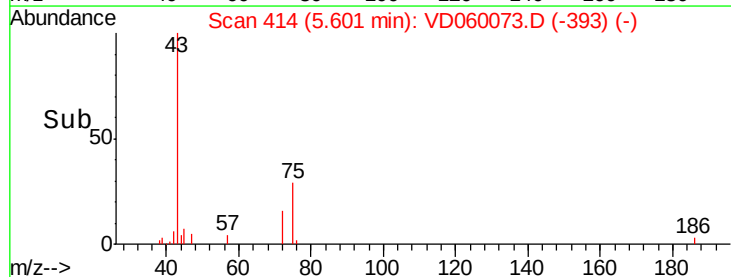
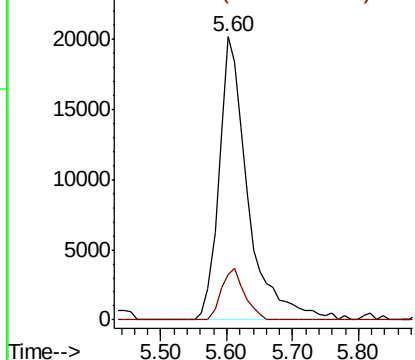


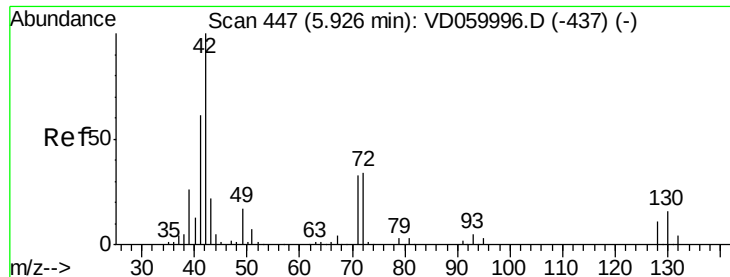
#25
2-Butanone
Concen: 15.263 ug/l
RT: 5.60 min Scan# 414
Delta R.T. 0.01 min
Lab File: VD060073.D
Acq: 21 Sep 2018 16:03

Tgt Ion: 43 Resp: 61496
Ion Ratio Lower Upper
43 100
72 16.0 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: 1.044 ug/l

RT: 5.94 min Scan# 448

Delta R.T. 0.01 min

Lab File: VD060073.D

Acq: 21 Sep 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061RE

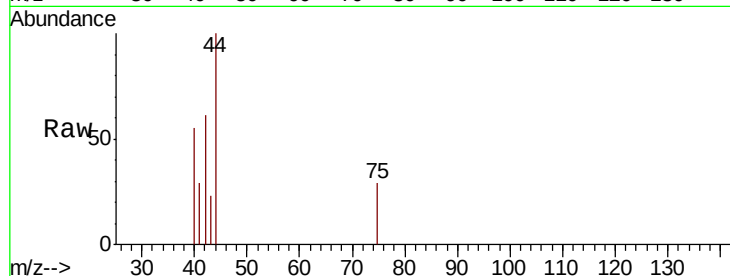
Tot Ion: 42 Resp: 2255

Ion Ratio Lower Upper

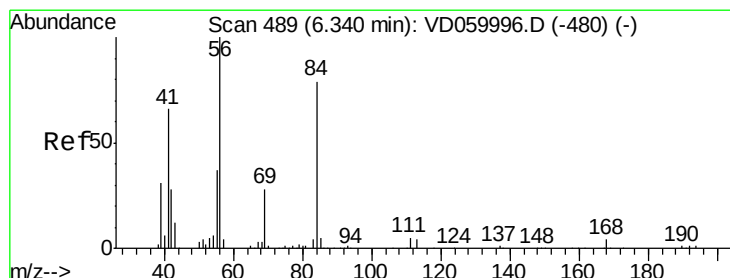
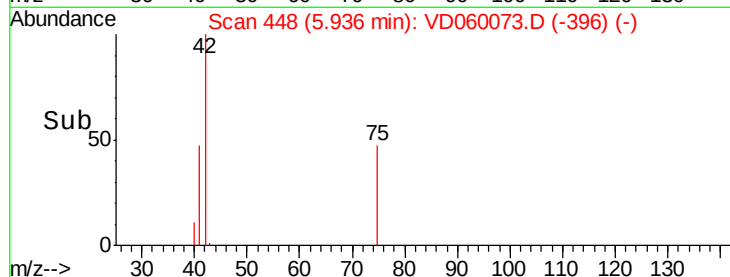
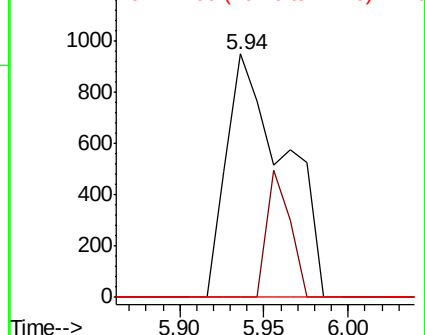
42 100

72 20.9 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: 1.226 ug/l

RT: 6.39 min Scan# 494

Delta R.T. 0.05 min

Lab File: VD060073.D

Acq: 21 Sep 2018 16:03

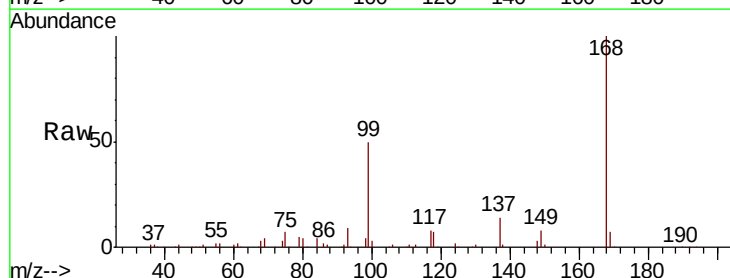
Tgt Ion: 56 Resp: 21055

Ion Ratio Lower Upper

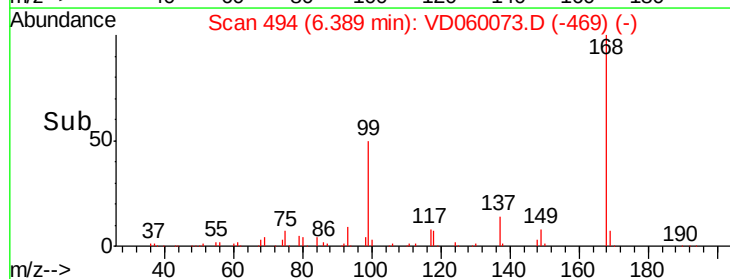
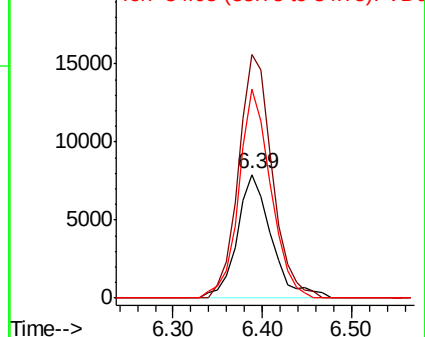
56 100

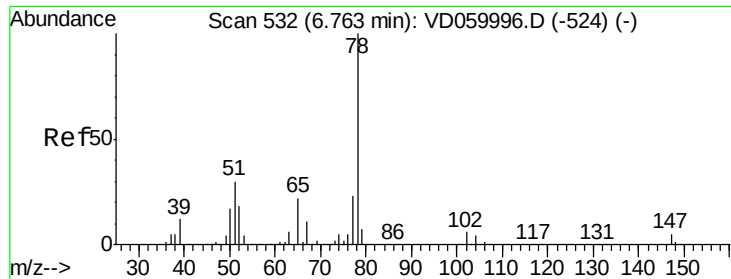
69 197.1 22.7 34.1#

84 169.0 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

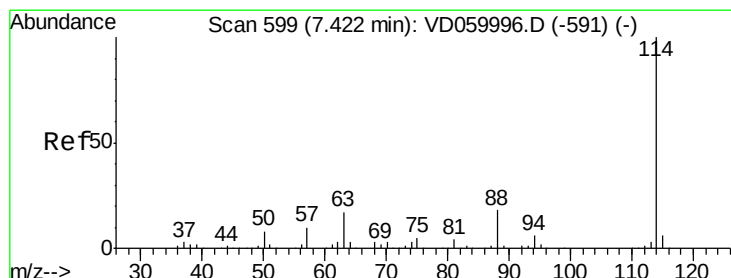
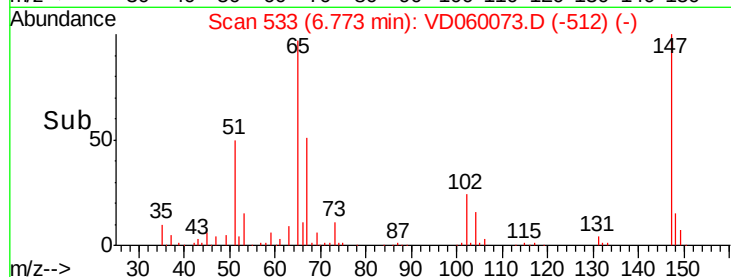
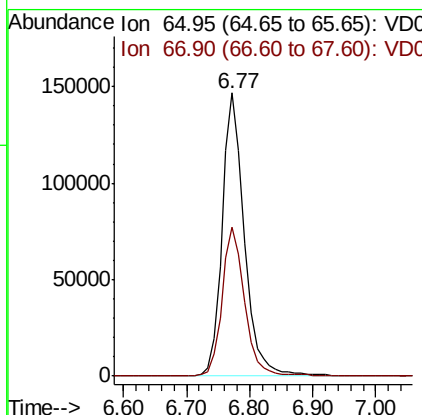
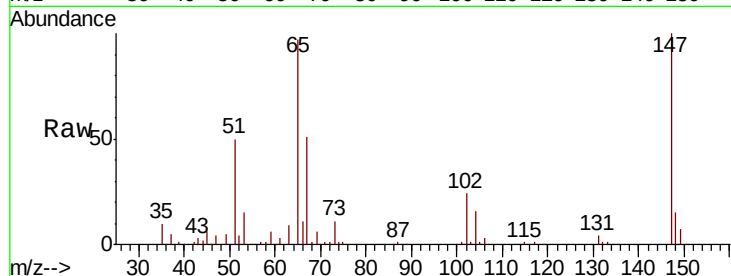




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.77 min Scan# 533
 Delta R.T. 0.01 min
 Lab File: VD060073.D
 Acq: 21 Sep 2018 16:03

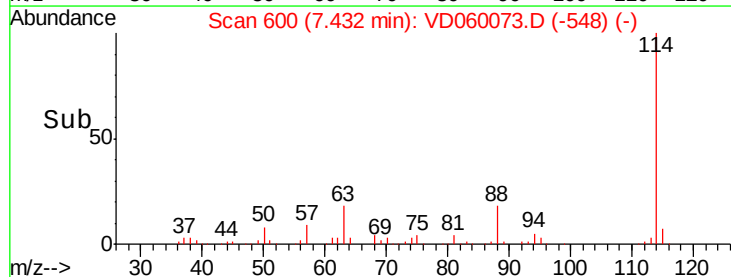
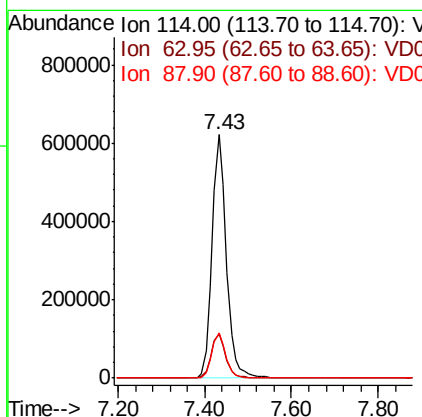
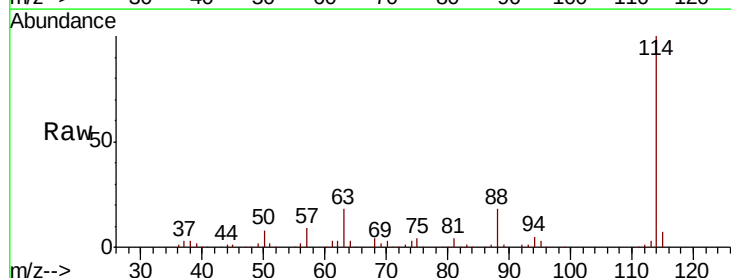
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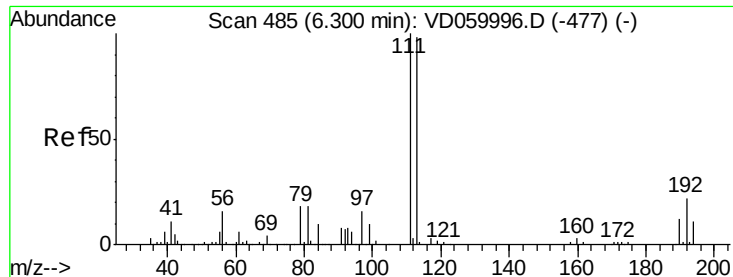
Tot Ion: 65 Resp: 358134
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.43 min Scan# 600
 Delta R.T. 0.01 min
 Lab File: VD060073.D
 Acq: 21 Sep 2018 16:03

Tgt Ion: 114 Resp: 1435031
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 34.4
 88 18.4 0.0 35.8

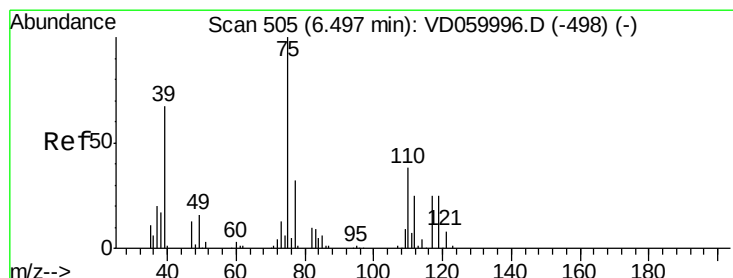
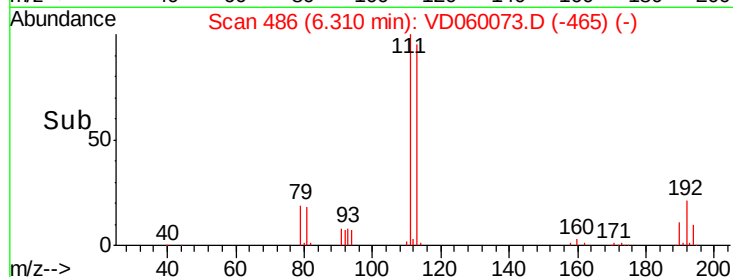
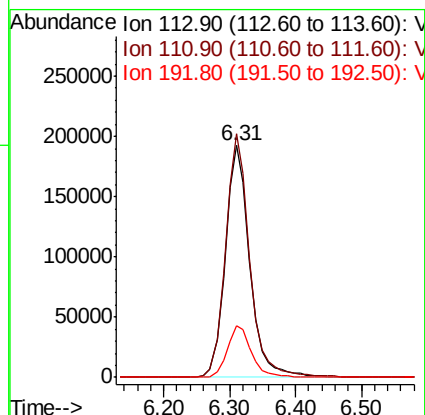
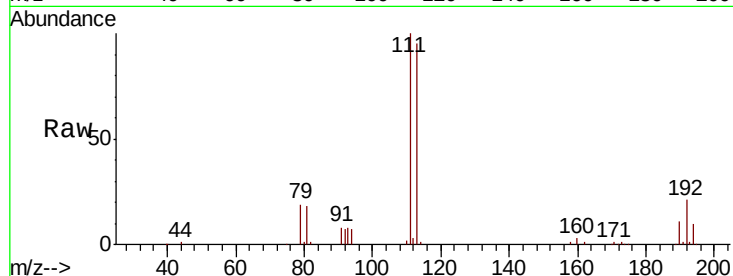




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.31 min Scan# 486
 Delta R.T. 0.01 min
 Lab File: VD060073.D
 Acq: 21 Sep 2018 16:03

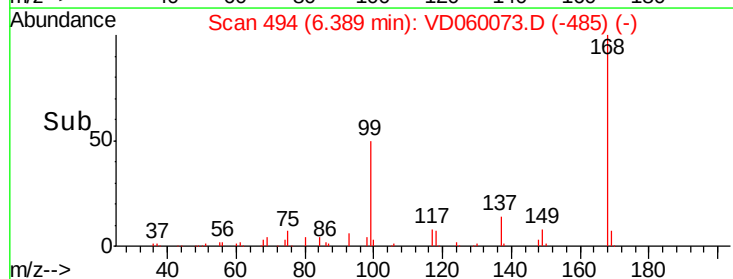
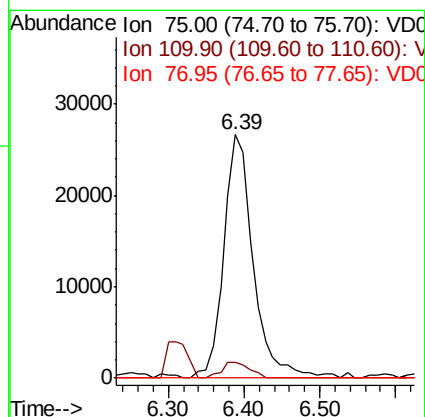
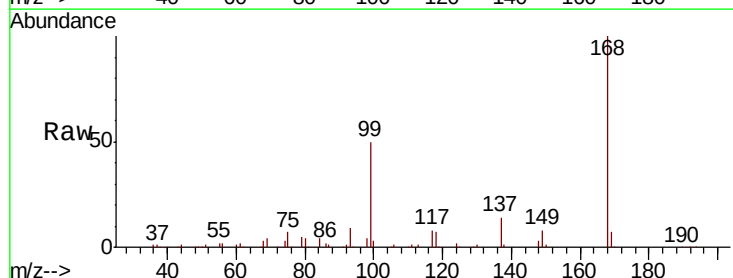
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 MSVOA_D
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 RA-091918-S-NW-061RE

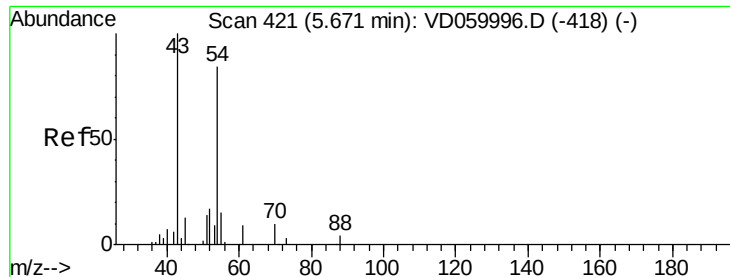
Tot Ion	Ratio	Lower	Upper
113	100		
111	105.1	81.3	121.9
192	22.1	18.1	27.1



#36
 1,1-Dichloropropene
 Concen: 5.045 ug/l
 RT: 6.39 min Scan# 494
 Delta R.T. -0.11 min
 Lab File: VD060073.D
 Acq: 21 Sep 2018 16:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.2	18.9	56.9#
77	0.0	25.3	37.9#





#37

Ethyl Acetate

Concen: 6.291 ug/l

RT: 5.60 min Scan# 414

Delta R.T. -0.07 min

Lab File: VD060073.D

Acq: 21 Sep 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061RE

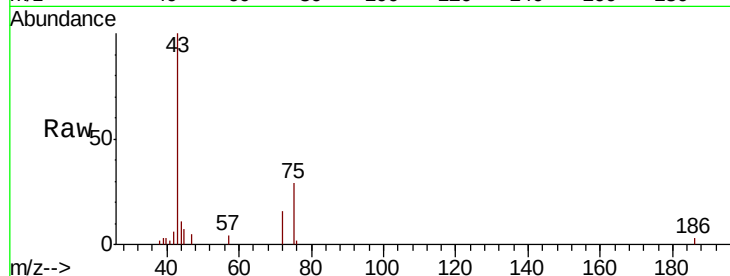
Tot Ion: 43 Resp: 61673

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.2#

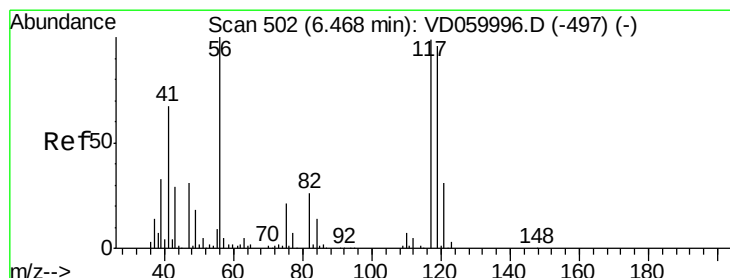
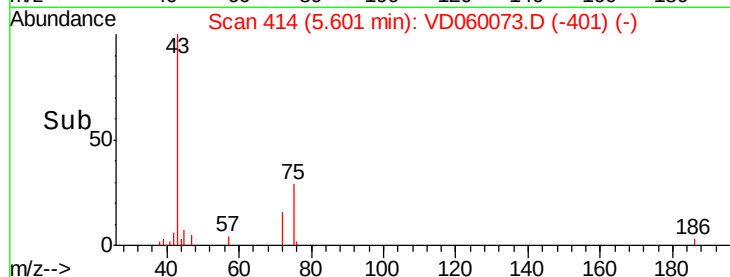
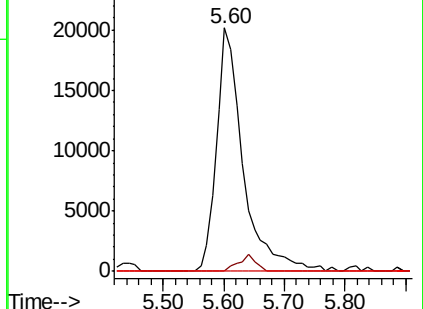
70 0.0 6.1 9.1#



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: 5.714 ug/l

RT: 6.39 min Scan# 494

Delta R.T. -0.08 min

Lab File: VD060073.D

Acq: 21 Sep 2018 16:03

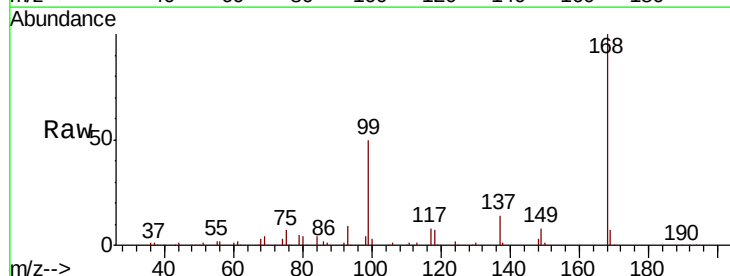
Tgt Ion: 117 Resp: 76035

Ion Ratio Lower Upper

117 100

119 3.2 76.7 115.1#

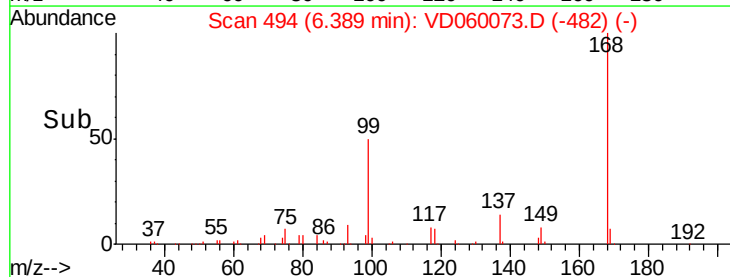
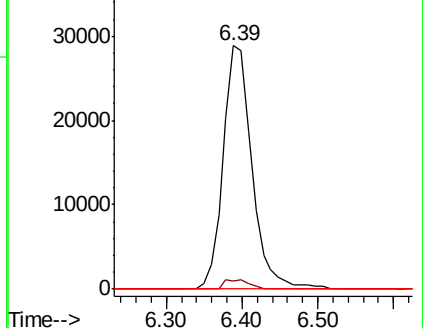
121 0.0 24.9 37.3#

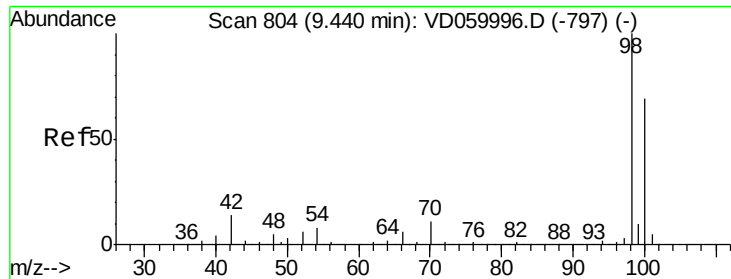


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

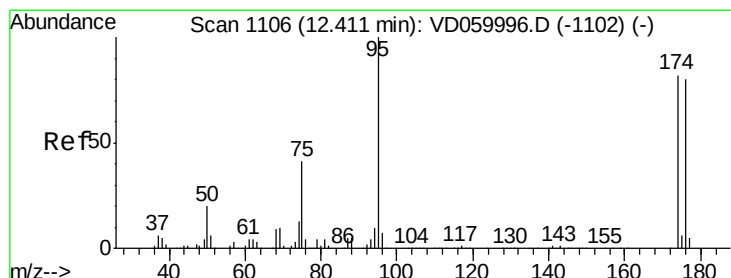
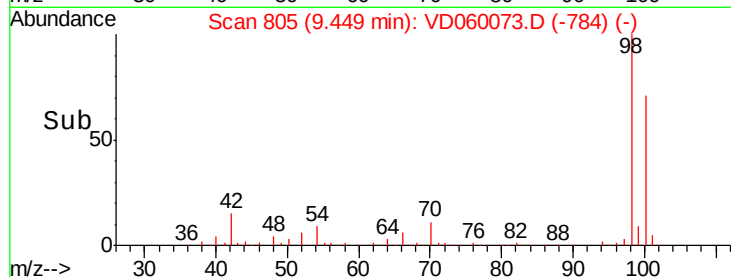
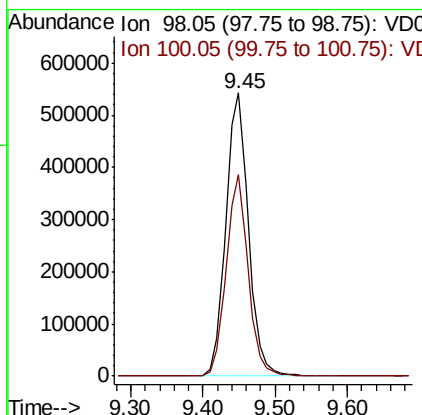
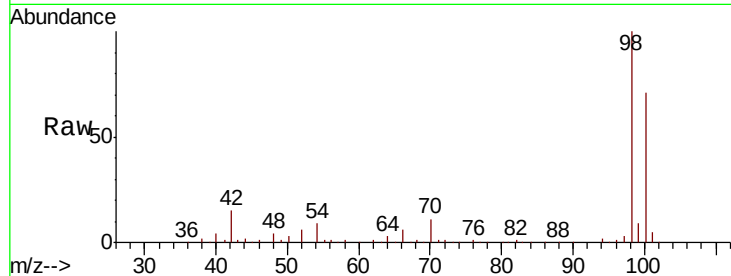




#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 805
Delta R.T. 0.01 min
Lab File: VD060073.D
Acq: 21 Sep 2018 16:03

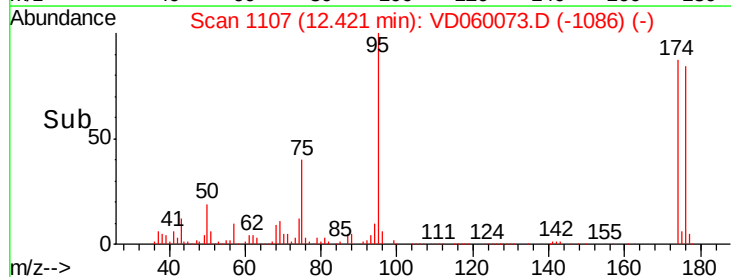
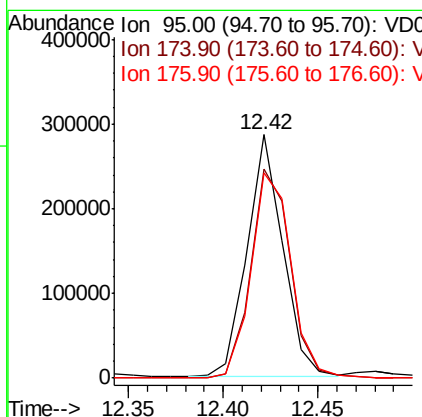
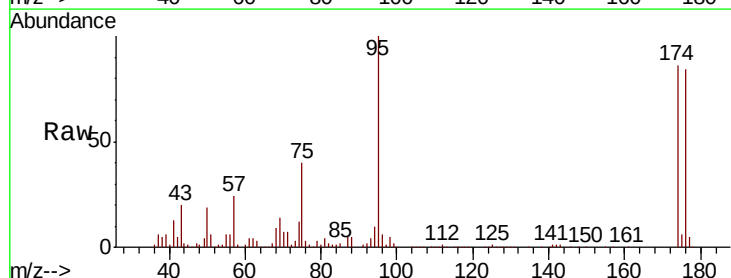
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061RE

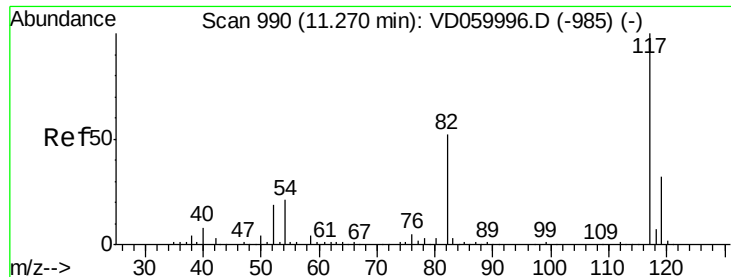
Tot Ion: 98 Resp: 1175948
Ion Ratio Lower Upper
98 100
100 71.1 55.8 83.6



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.42 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VD060073.D
Acq: 21 Sep 2018 16:03

Tgt Ion: 95 Resp: 377838
Ion Ratio Lower Upper
95 100
174 86.1 0.0 165.0
176 84.1 0.0 160.2

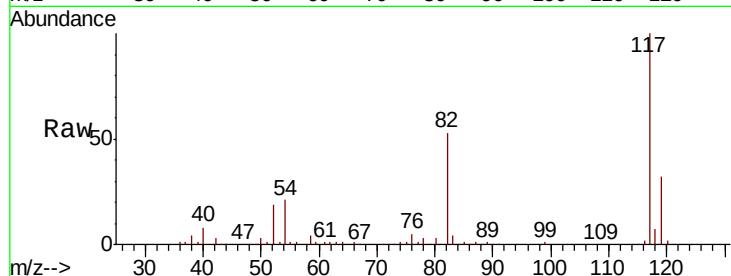




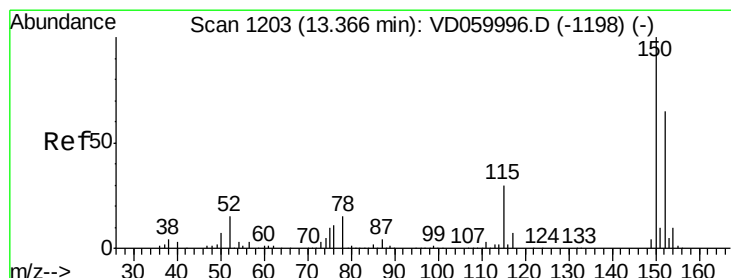
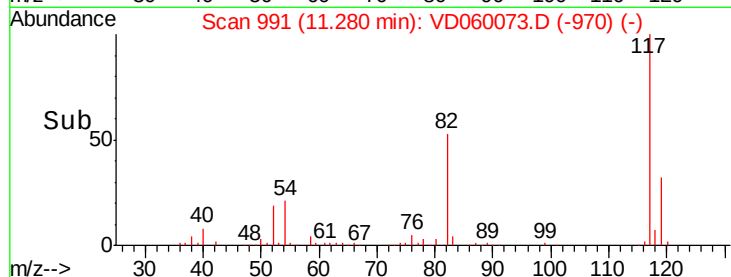
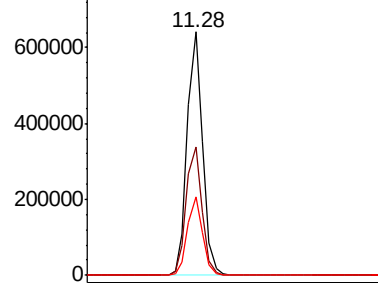
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD060073.D
Acq: 21 Sep 2018 16:03

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

Tot Ion:117 Resp: 991788
Ion Ratio Lower Upper
117 100
82 52.9 41.7 62.5
119 32.2 26.0 39.0

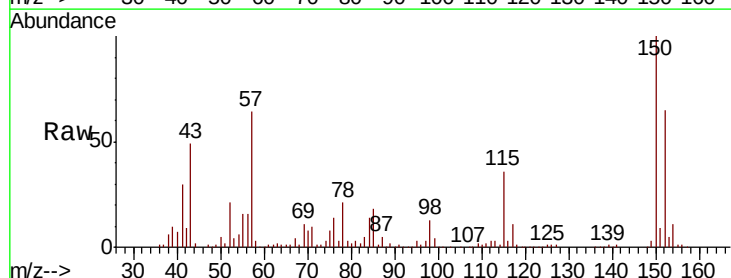


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

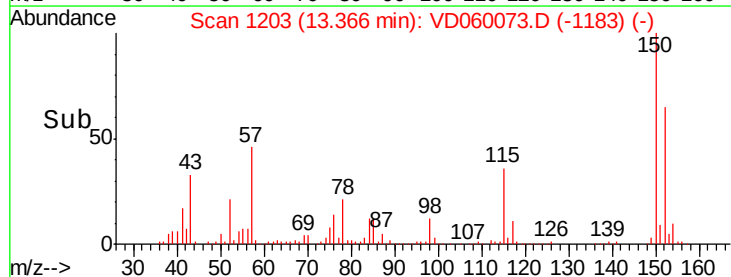
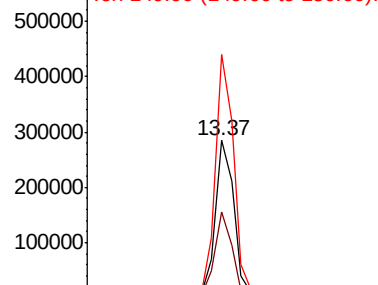


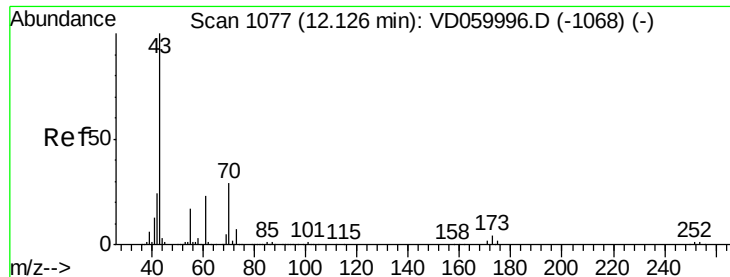
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1203
Delta R.T. -0.00 min
Lab File: VD060073.D
Acq: 21 Sep 2018 16:03

Tgt Ion:152 Resp: 369424
Ion Ratio Lower Upper
152 100
115 55.1 24.6 73.8
150 154.6 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





#74

N-amvl acetate

Concen: 15.878 ug/l

RT: 12.09 min Scan# 1073

Delta R.T. -0.04 min

Lab File: VD060073.D

Acq: 21 Sep 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061RE

Tot Ion: 43 Resp: 152379

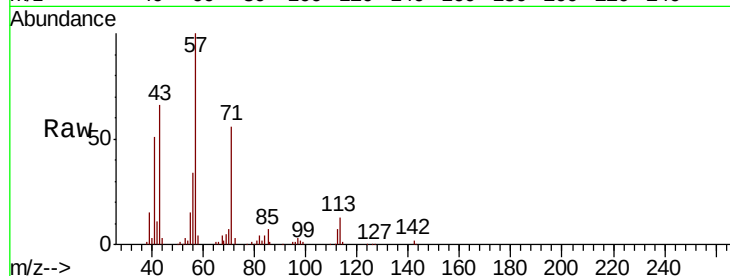
Ion Ratio Lower Upper

43 100

70 9.9 22.9 34.3#

55 22.8 14.0 21.0#

61 0.0 18.7 28.1#

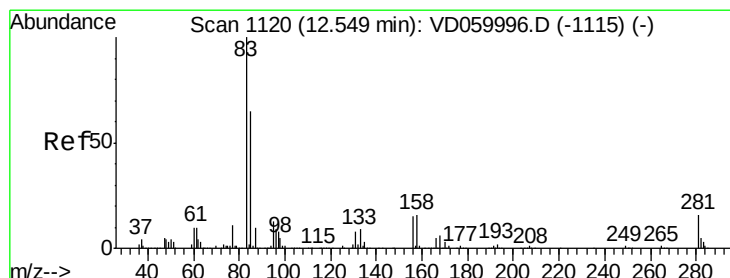
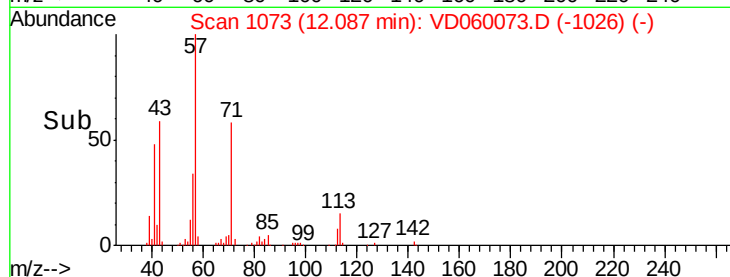
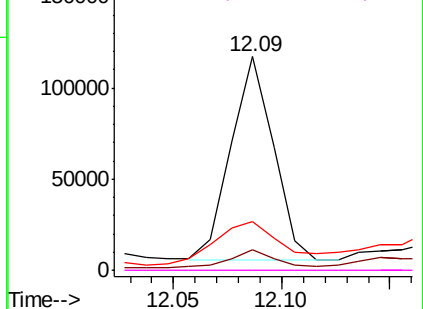


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#75

1,1,2,2-Tetrachloroethane

Concen: 1.256 ug/l

RT: 12.53 min Scan# 1118

Delta R.T. -0.02 min

Lab File: VD060073.D

Acq: 21 Sep 2018 16:03

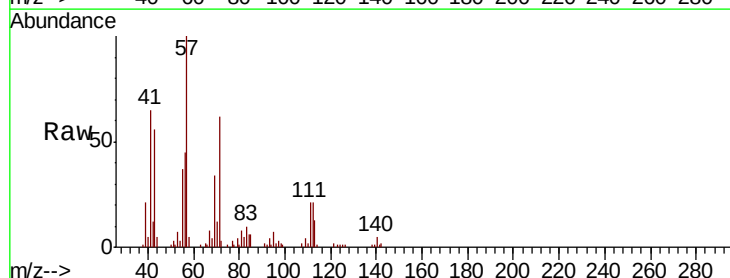
Tgt Ion: 83 Resp: 6906

Ion Ratio Lower Upper

83 100

131 0.0 4.1 12.3#

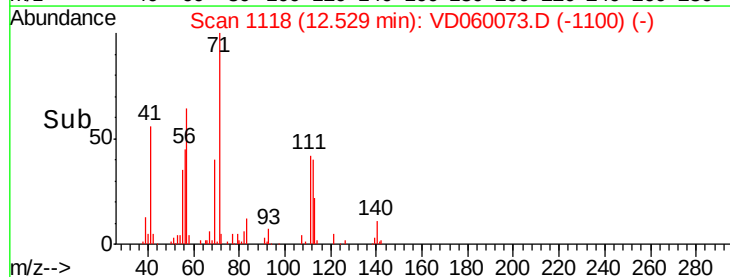
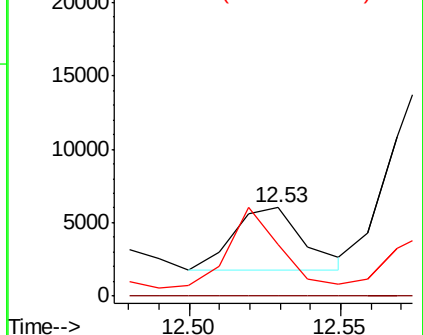
85 58.6 32.4 97.2

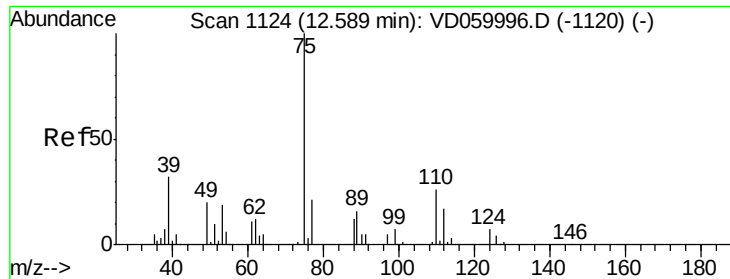


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC





#76

1,2,3-Trichloropropane

Concen: 19.562 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.17 min

Lab File: VD060073.D

Acq: 21 Sep 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

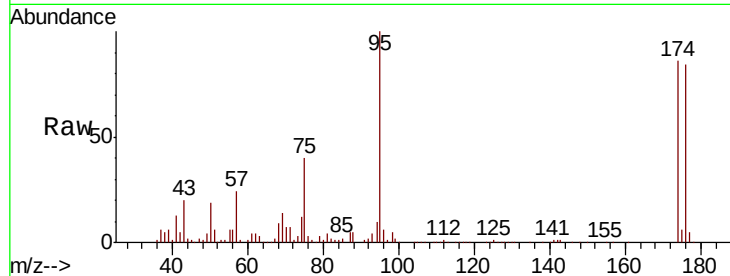
RA-091918-S-NW-061RE

Tot Ion: 75 Resp: 110371

Ion Ratio Lower Upper

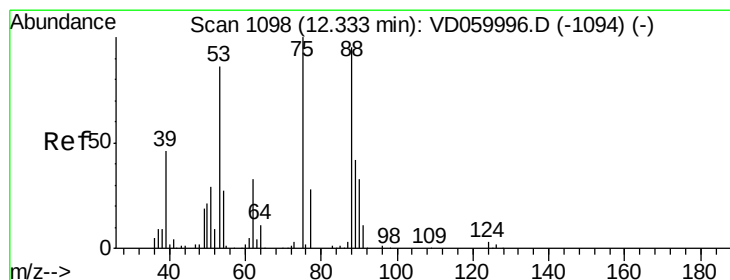
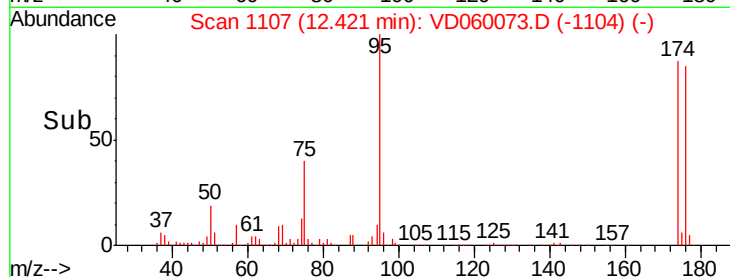
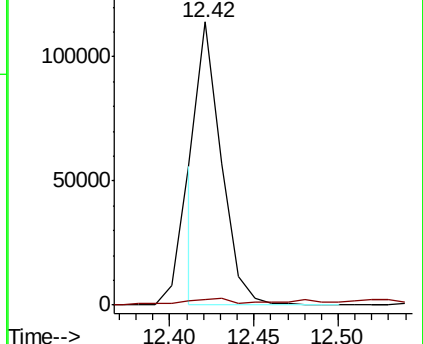
75 100

77 2.1 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: 87.145 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.09 min

Lab File: VD060073.D

Acq: 21 Sep 2018 16:03

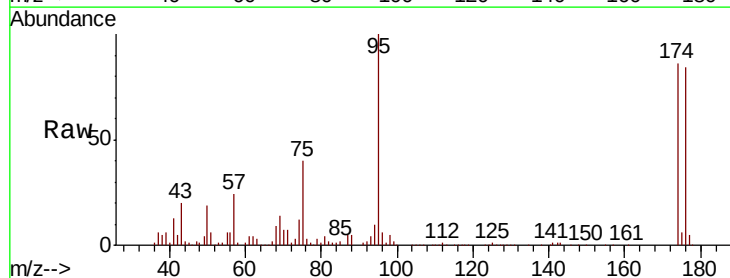
Tgt Ion: 75 Resp: 148422

Ion Ratio Lower Upper

75 100

53 2.8 68.4 102.6#

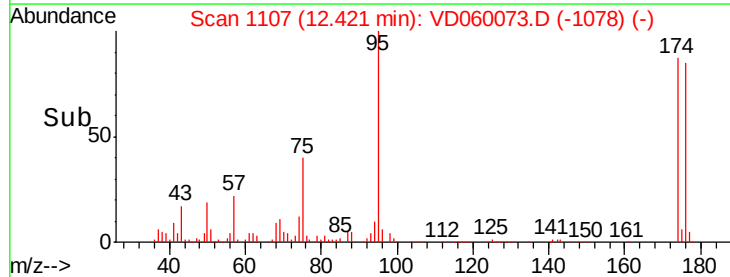
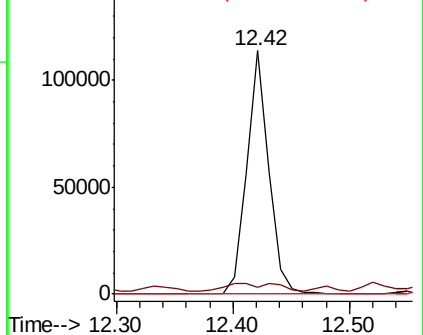
89 0.0 33.8 50.6#

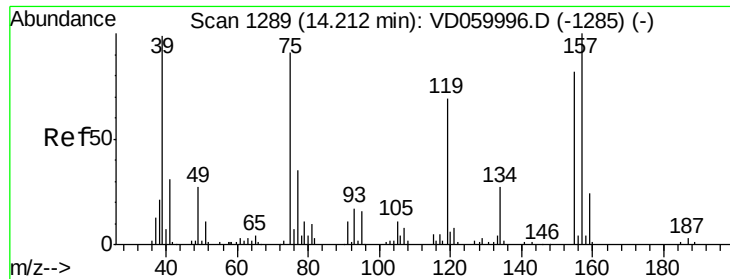


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

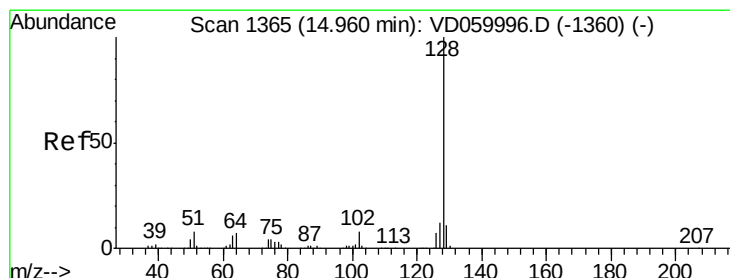
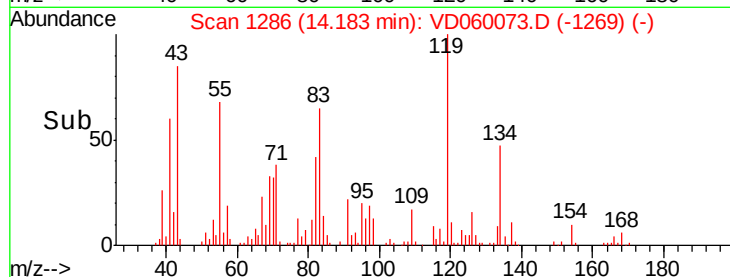
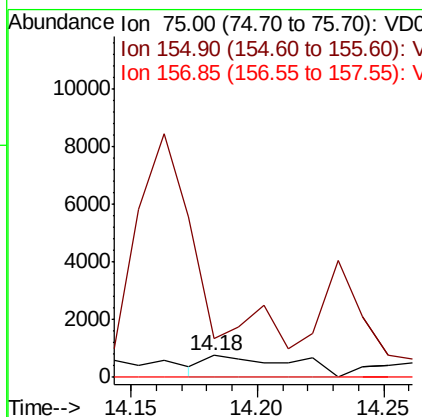
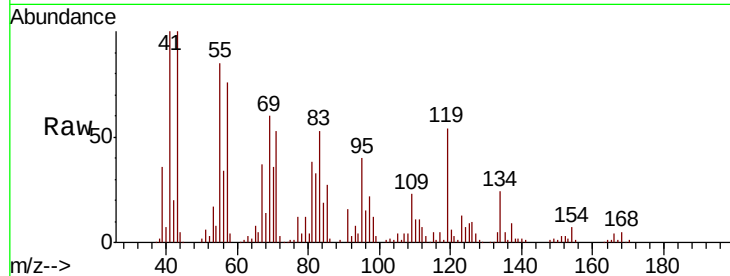




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.145 ug/l
 RT: 14.18 min Scan# 1286
 Delta R.T. -0.03 min
 Lab File: VD060073.D
 Acq: 21 Sep 2018 16:03

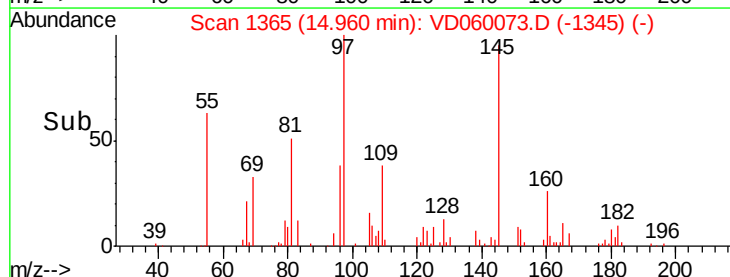
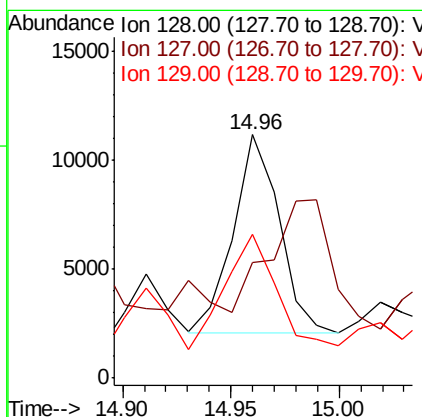
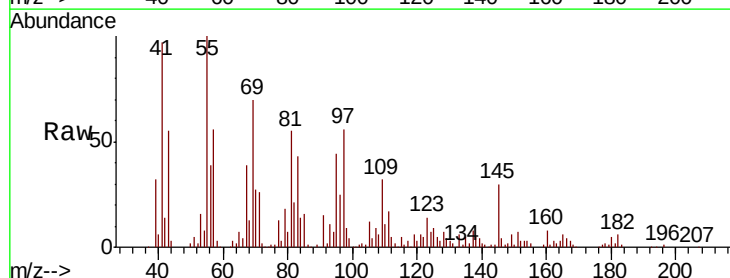
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061RE

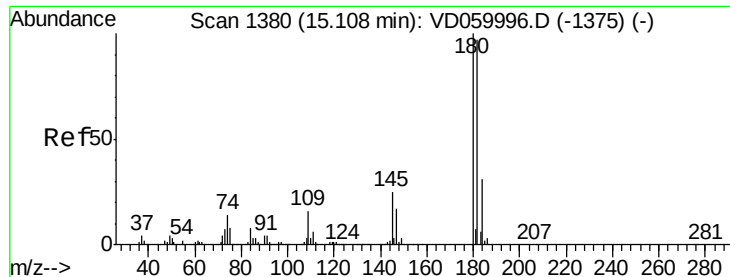
Tot Ion: 75 Resp: 1797
 Ion Ratio Lower Upper
 75 100
 155 175.6 44.7 134.1#
 157 0.0 54.7 164.1#



#95
 Naphthalene
 Concen: 1.012 ug/l
 RT: 14.96 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VD060073.D
 Acq: 21 Sep 2018 16:03

Tgt Ion: 128 Resp: 13523
 Ion Ratio Lower Upper
 128 100
 127 47.4 9.7 14.5#
 129 59.3 8.9 13.3#





#96

1,2,3-Trichlorobenzene

Concen: 1.034 ug/l

RT: 15.18 min Scan# 1387

Delta R.T. 0.07 min

Lab File: VD060073.D

Acq: 21 Sep 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061RE

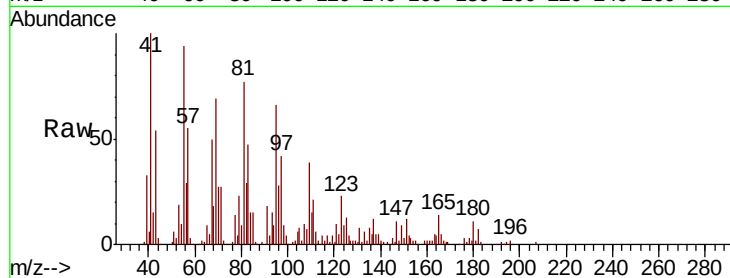
Tot Ion:180 Resp: 7880

Ion Ratio Lower Upper

180 100

182 57.6 48.6 145.9

145 22.8 12.7 38.1



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

