

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX053119\
 Data File : VX010011.D
 Acq On : 01 Jun 2019 02:31
 Operator : JC/SP
 Sample : K3129-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW144-190528

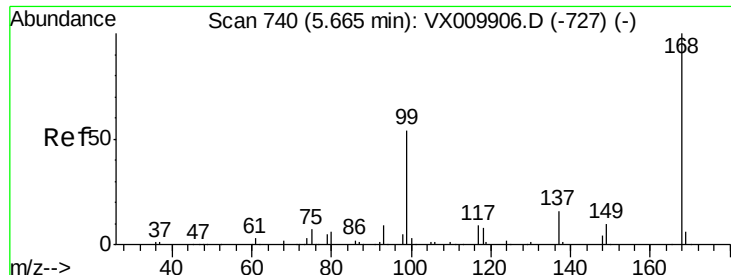
Quant Time: Jun 01 04:49:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	177030	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	281565	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	255345	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	112855	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	118849	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
35) Dibromofluoromethane	5.50	113	87861	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	
50) Toluene-d8	8.71	98	356837	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	
62) 4-Bromofluorobenzene	11.13	95	123013	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	12774	4.872	ug/l	97
6) Chloroethane	1.66	64	3525	2.184	ug/l #	57
11) Tert butyl alcohol	3.03	59	718	1.167	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	675	0.376	ug/l	89
13) Acrolein	2.29	56	68	21.240	ug/l #	1
16) Acetone	2.44	43	1124	0.778	ug/l #	70
17) Carbon Disulfide	2.57	76	564	0.488	ug/l #	76
21) trans-1,2-Dichloroethene	3.17	96	1040	0.521	ug/l	91
27) cis-1,2-Dichloroethene	4.60	96	519543	225.624	ug/l	87
31) Cyclohexane	5.66	56	4030	1.059	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13735	4.808	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16409	6.647	ug/l #	16
65) Chlorobenzene	10.14	112	12803	2.395	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	63427	23.503	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63427	58.149	ug/l #	10
91) 1,2-Dichlorobenzene	12.39	146	5287	1.419	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010011.D

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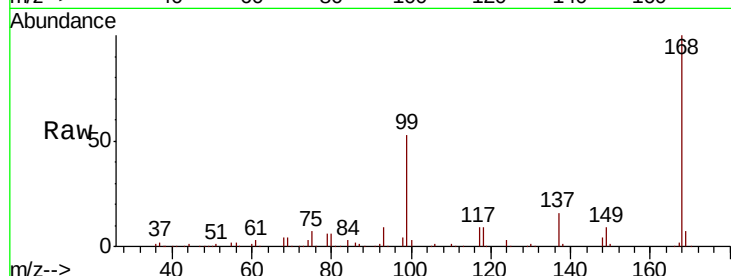
LF012MW144-190528

Tot Ion:168 Resp: 177030

Ion Ratio Lower Upper

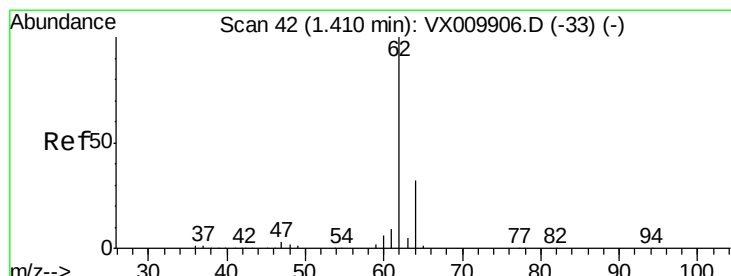
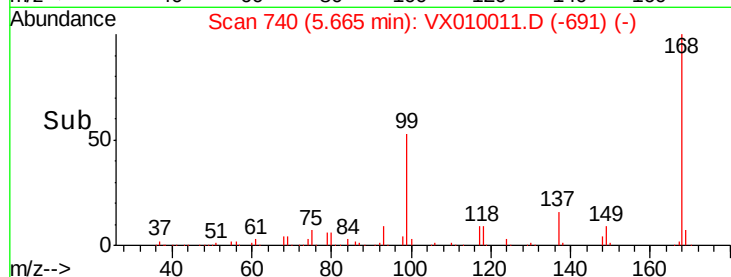
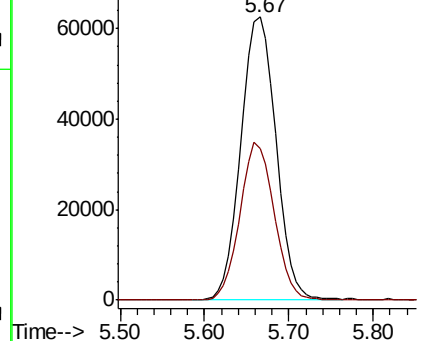
168 100

99 53.3 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 4.872 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010011.D

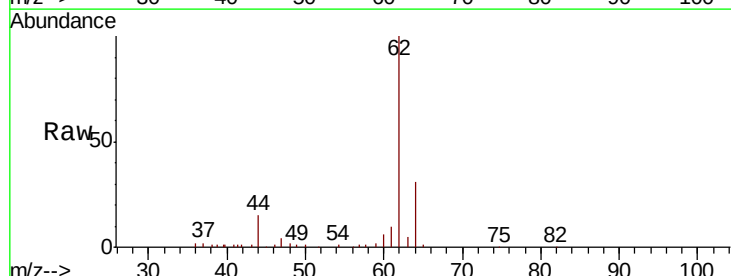
Acq: 01 Jun 2019 02:31

Tgt Ion: 62 Resp: 12774

Ion Ratio Lower Upper

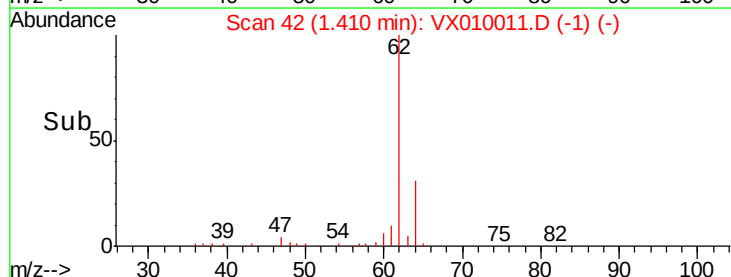
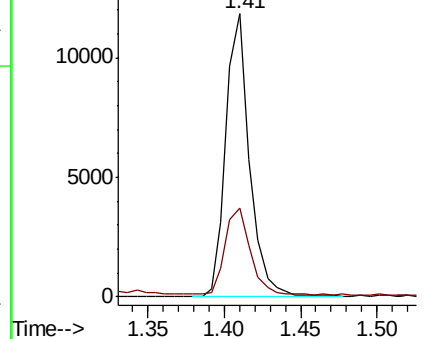
62 100

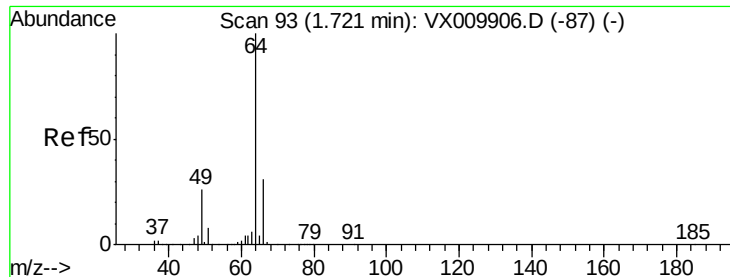
64 30.6 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#6

Chloroethane

Concen: 2.184 ug/l

RT: 1.66 min Scan# 83

Delta R.T. -0.06 min

Lab File: VX010011.D

Acq: 01 Jun 2019 02:31

Instrument :

MSVOA_X

ClientSampleId :

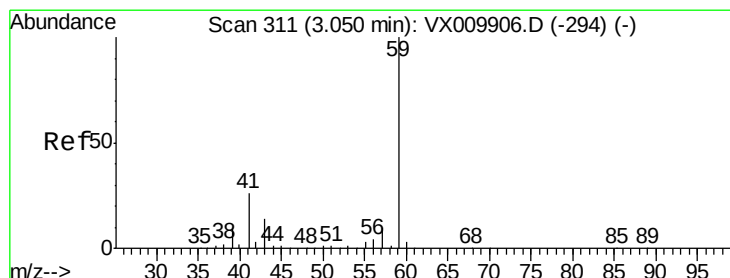
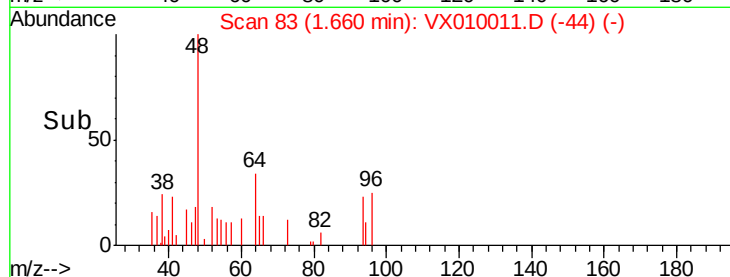
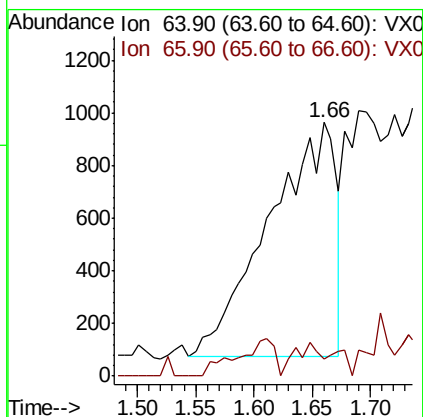
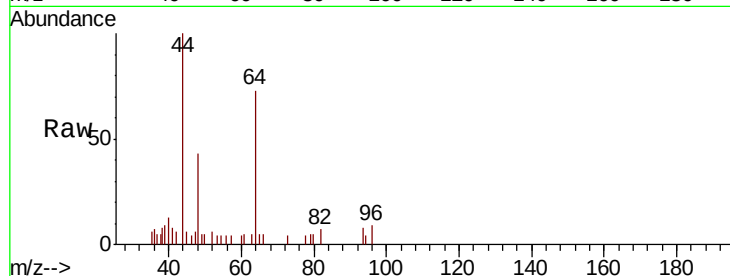
LF012MW144-190528

Tot Ion: 64 Resp: 3525

Ion Ratio Lower Upper

64 100

66 7.4 25.1 37.7#



#11

Tert butyl alcohol

Concen: 1.167 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.02 min

Lab File: VX010011.D

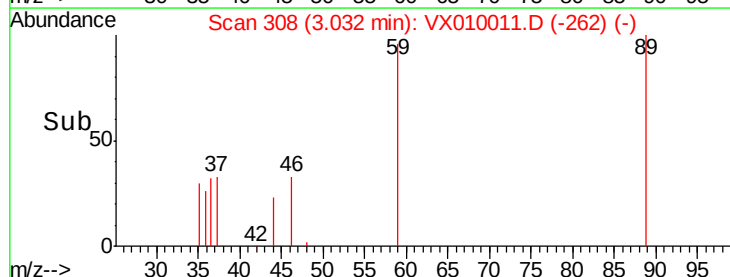
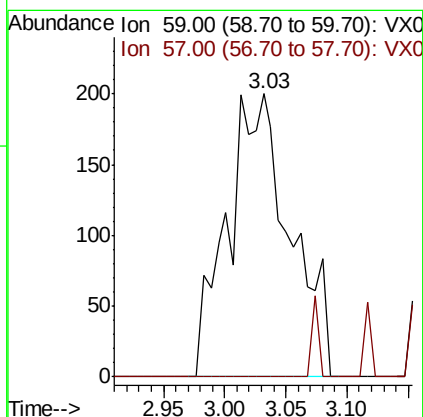
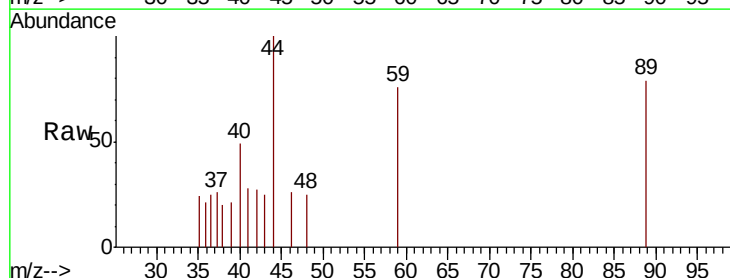
Acq: 01 Jun 2019 02:31

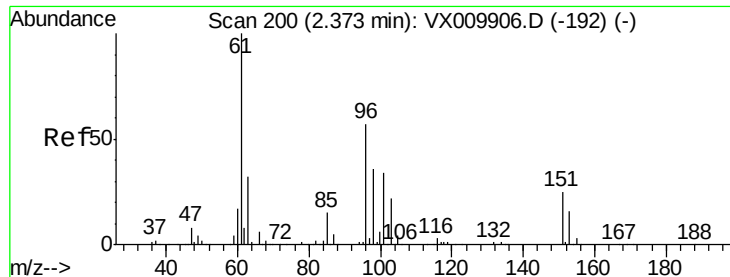
Tgt Ion: 59 Resp: 718

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#





#12

1,1-Dichloroethene

Concen: 0.376 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.00 min

Lab File: VX010011.D

Acq: 01 Jun 2019 02:31

Instrument :

MSVOA_X

ClientSampleId :

LF012MW144-190528

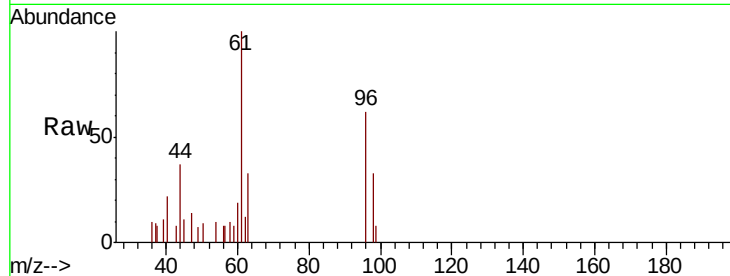
Tot Ion: 96 Resp: 675

Ion Ratio Lower Upper

96 100

61 160.9 140.7 211.1

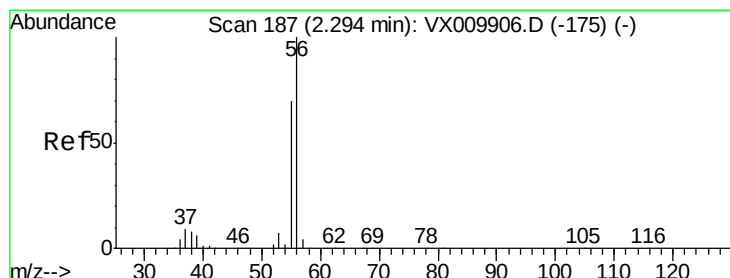
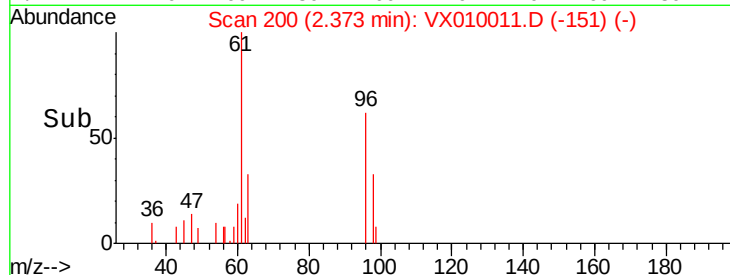
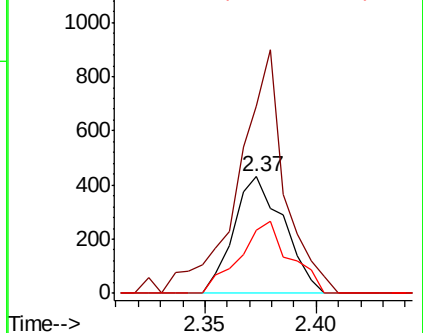
98 53.7 50.1 75.1



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 21.240 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010011.D

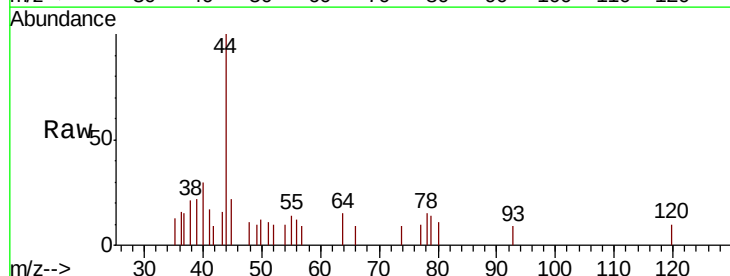
Acq: 01 Jun 2019 02:31

Tgt Ion: 56 Resp: 68

Ion Ratio Lower Upper

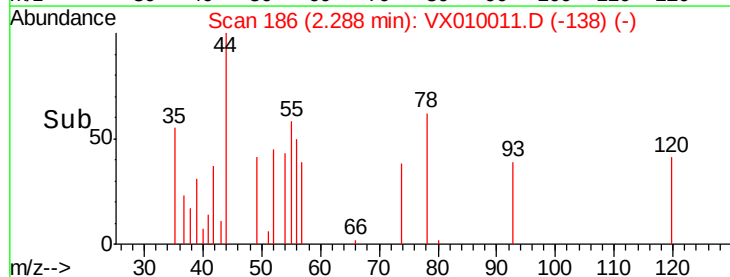
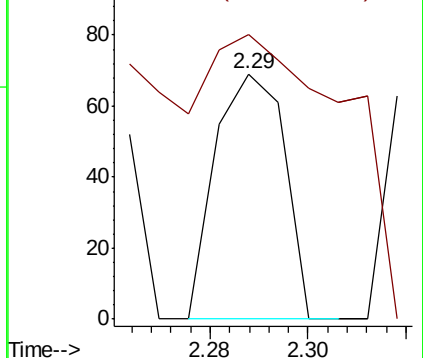
56 100

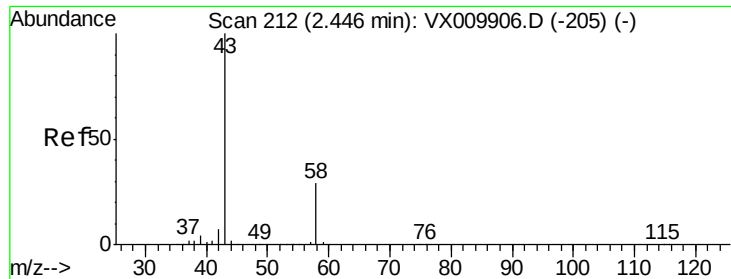
55 225.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.778 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010011.D

Acq: 01 Jun 2019 02:31

Instrument :

MSVOA_X

ClientSampleId :

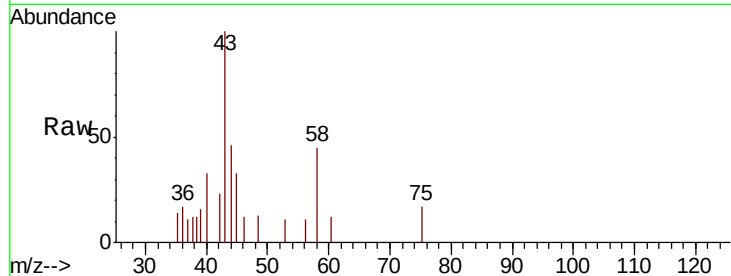
LF012MW144-190528

Tot Ion: 43 Resp: 1124

Ion Ratio Lower Upper

43 100

58 44.9 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

500

400

300

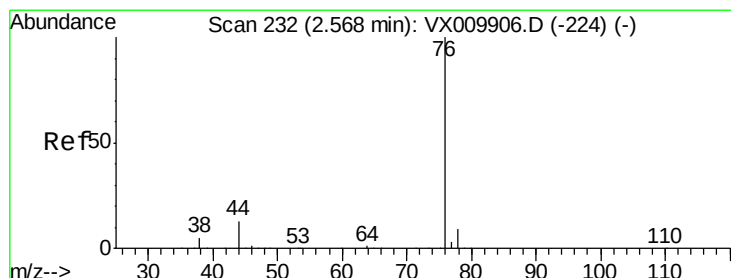
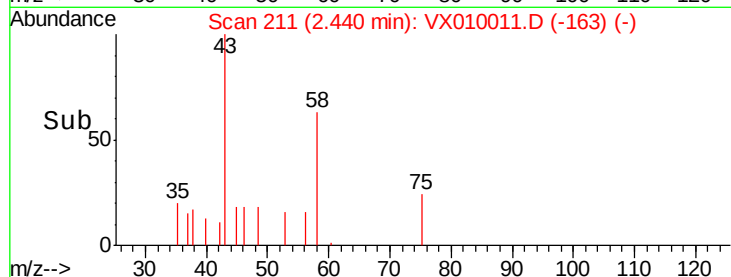
200

100

0

Time-->

2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.488 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010011.D

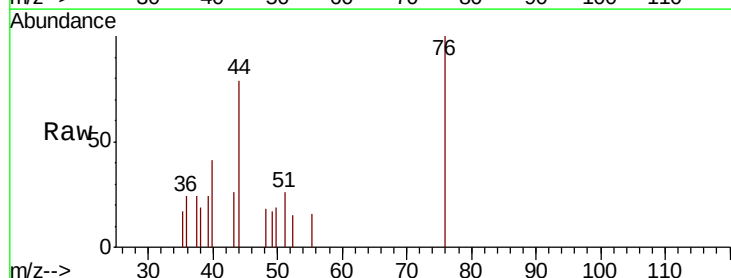
Acq: 01 Jun 2019 02:31

Tgt Ion: 76 Resp: 564

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

300

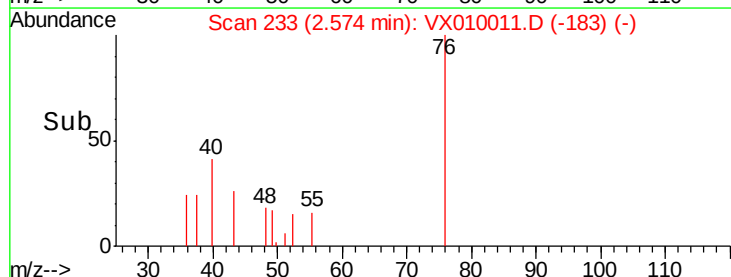
200

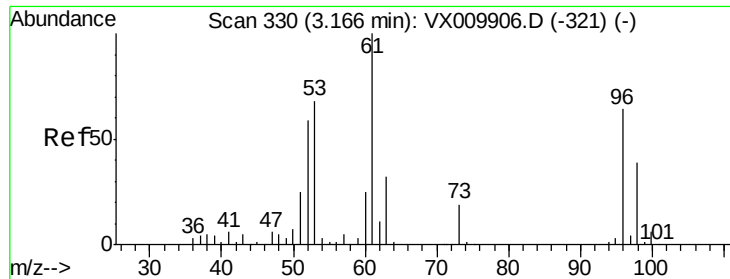
100

0

Time-->

2.55 2.60





#21

trans-1,2-Dichloroethene

Concen: 0.521 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX010011.D

Acq: 01 Jun 2019 02:31

Instrument :

MSVOA_X

ClientSampleId :

LF012MW144-190528

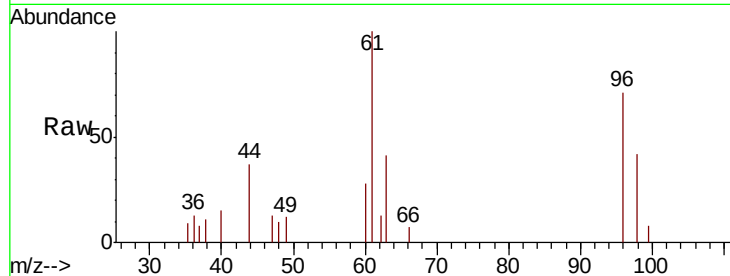
Tot Ion: 96 Resp: 1040

Ion Ratio Lower Upper

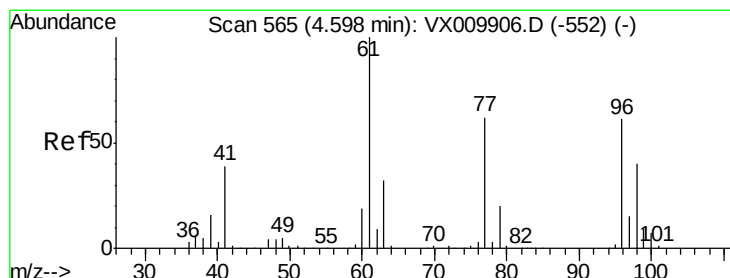
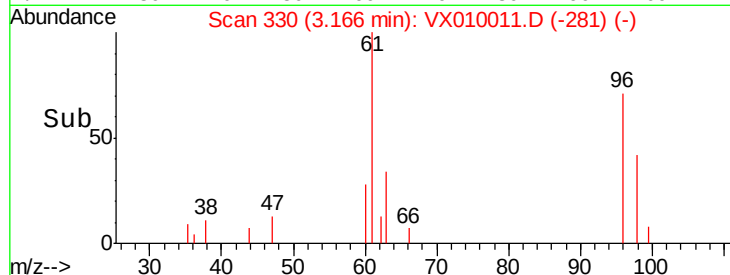
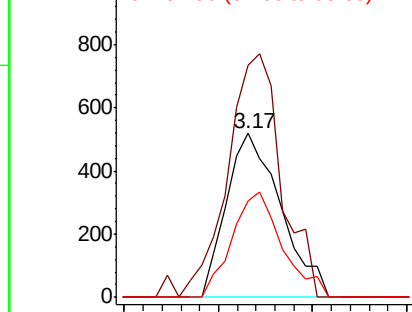
96 100

61 141.7 125.7 188.5

98 58.9 49.0 73.6



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 225.624 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX010011.D

Acq: 01 Jun 2019 02:31

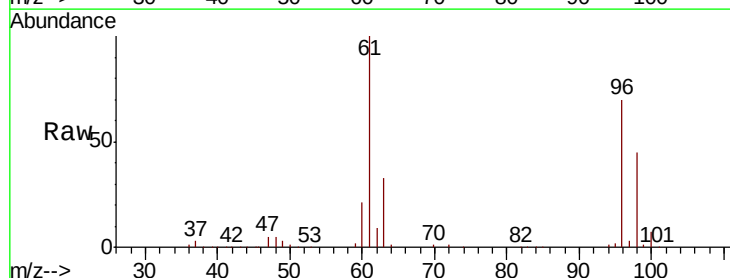
Tgt Ion: 96 Resp: 519543

Ion Ratio Lower Upper

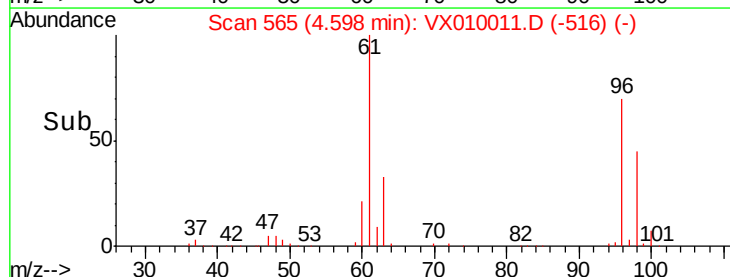
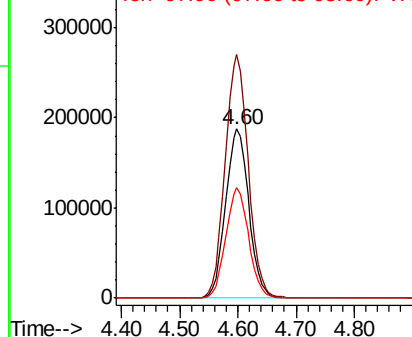
96 100

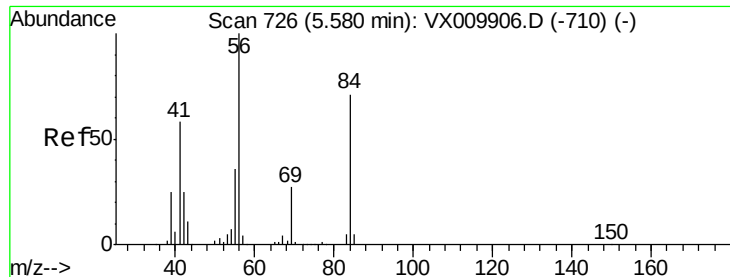
61 143.3 0.0 334.0

98 64.2 0.0 131.6



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0

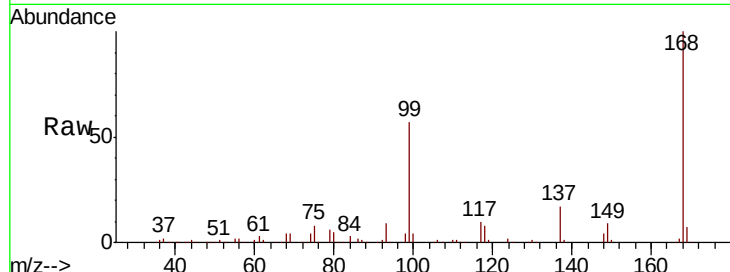




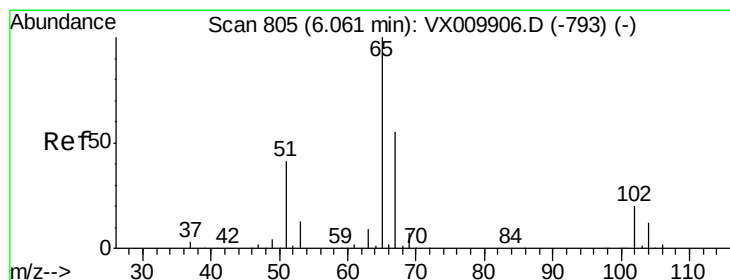
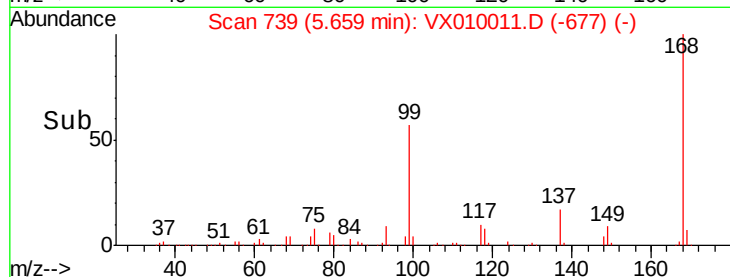
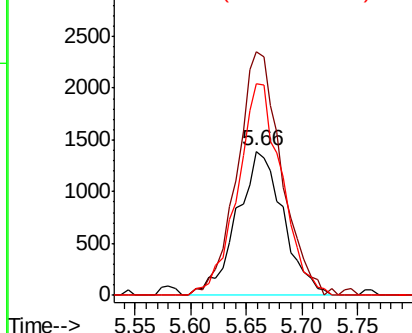
#31
Cyclohexane
Concen: 1.059 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX010011.D
Acq: 01 Jun 2019 02:31

Instrument :
MSVOA_X
ClientSampleId :
LF012MW144-190528

Tot Ion: 56 Resp: 4030
Ion Ratio Lower Upper
56 100
69 169.1 21.6 32.4#
84 146.6 56.8 85.2#

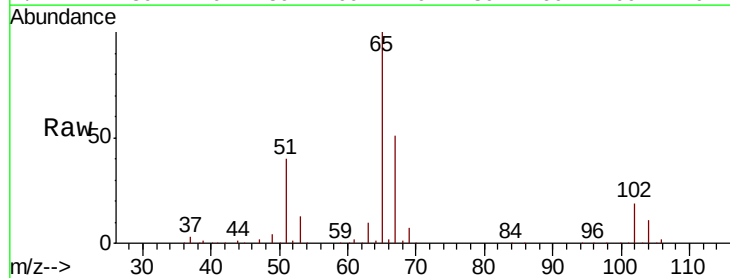


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

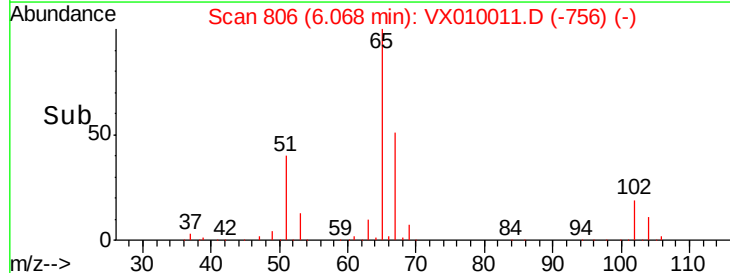
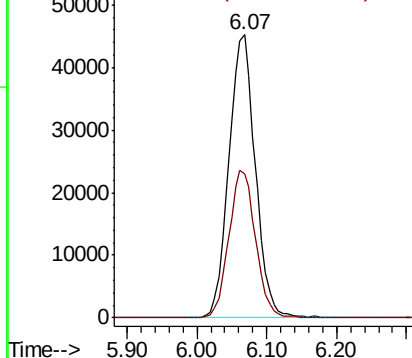


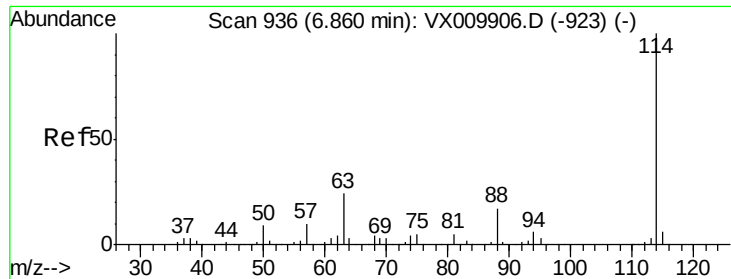
#33
1,2-Dichloroethane-d4
Concen: 47.526 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX010011.D
Acq: 01 Jun 2019 02:31

Tgt Ion: 65 Resp: 118849
Ion Ratio Lower Upper
65 100
67 52.5 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

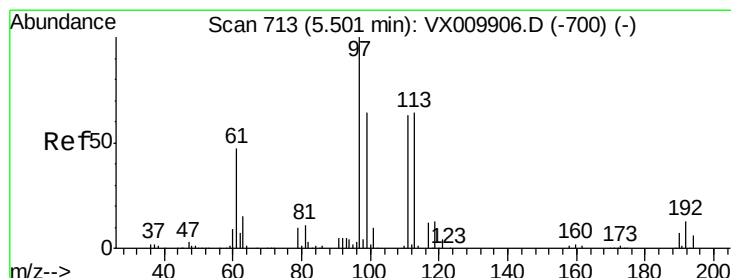
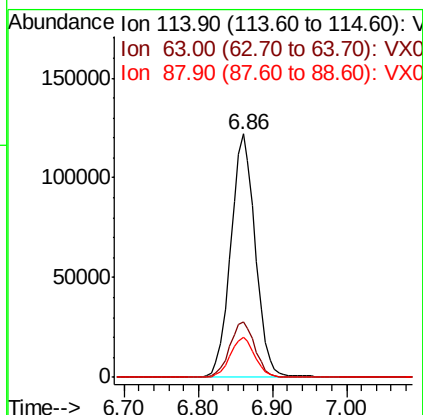
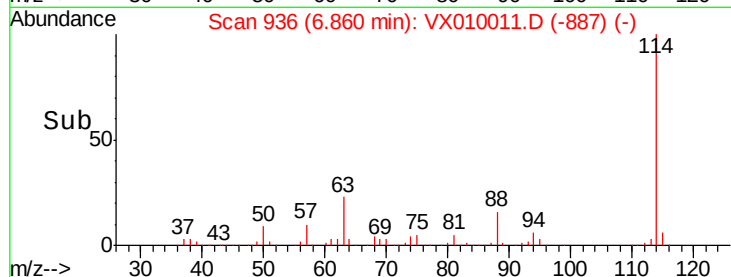
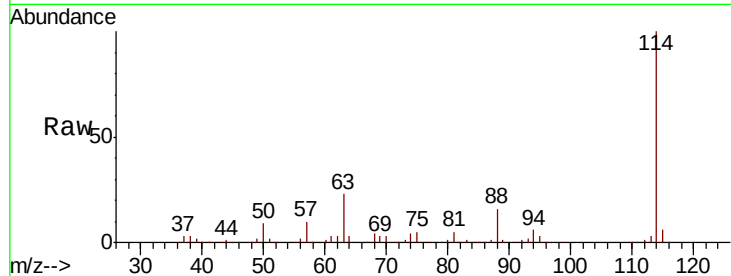




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX010011.D
Acq: 01 Jun 2019 02:31

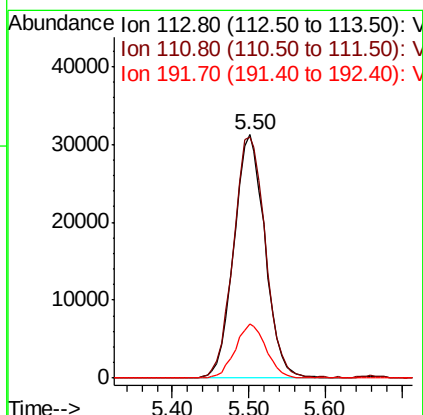
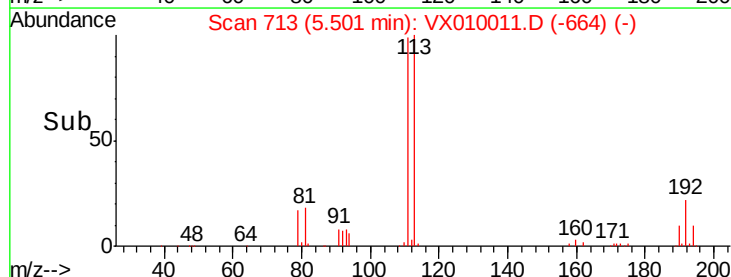
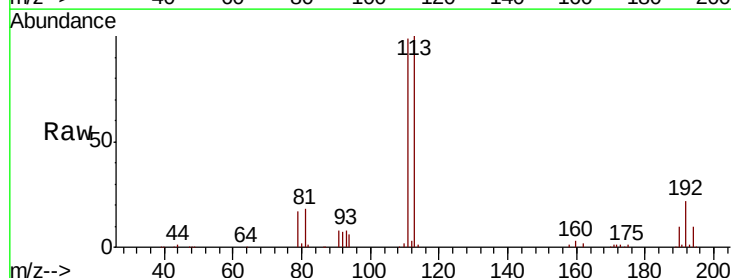
Instrument :
MSVOA_X
ClientSampleId :
LF012MW144-190528

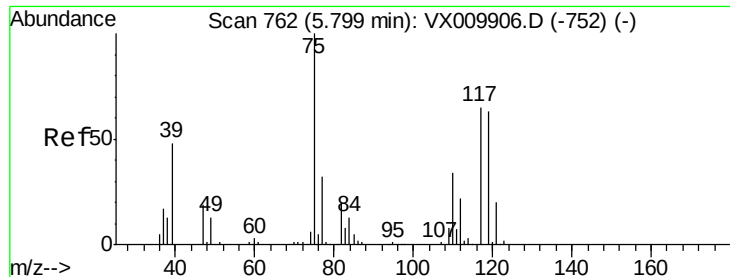
Tot Ion:114 Resp: 281565
Ion Ratio Lower Upper
114 100
63 22.6 0.0 47.4
88 16.3 0.0 33.0



#35
Dibromofluoromethane
Concen: 49.633 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX010011.D
Acq: 01 Jun 2019 02:31

Tgt Ion:113 Resp: 87861
Ion Ratio Lower Upper
113 100
111 102.0 82.2 123.2
192 22.0 17.1 25.7

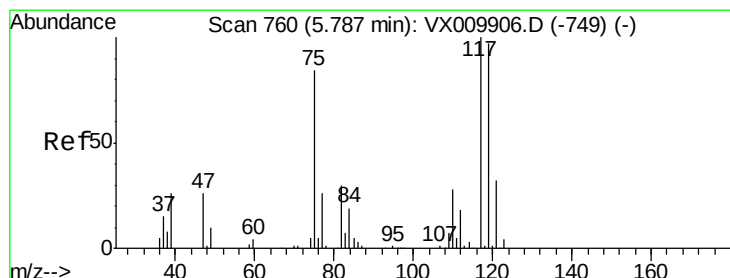
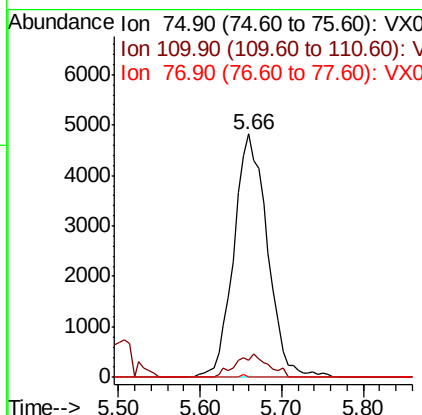
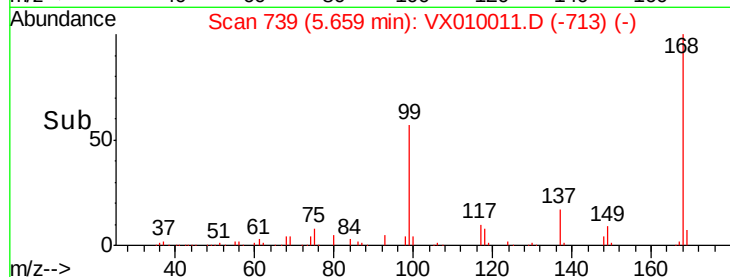
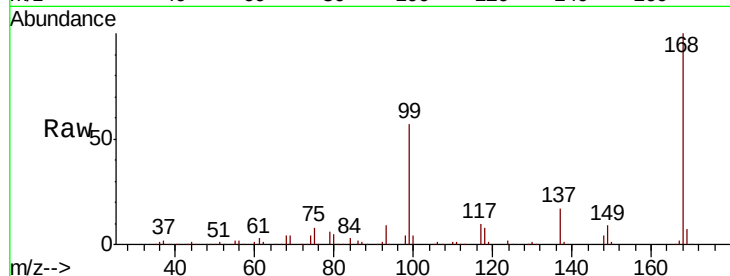




#36
 1,1-Dichloropropene
 Concen: 4.808 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010011.D
 Acq: 01 Jun 2019 02:31

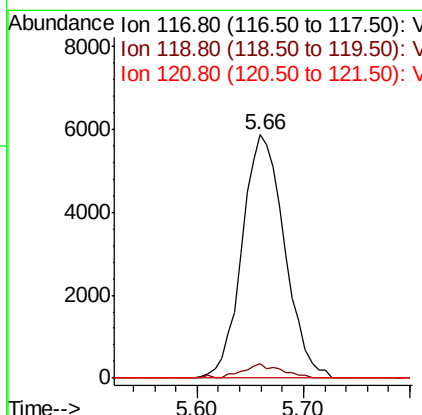
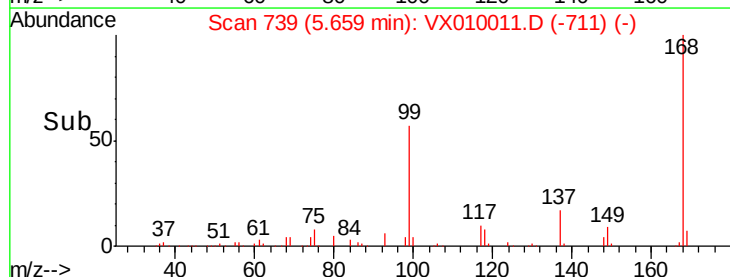
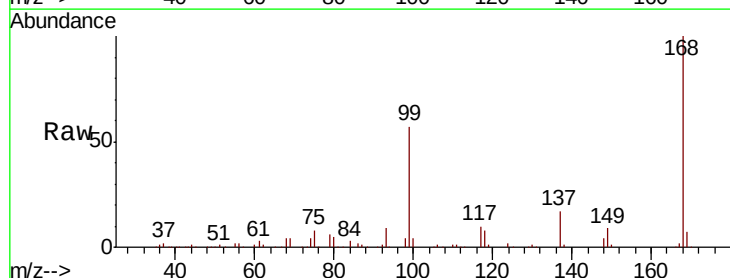
Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW144-190528

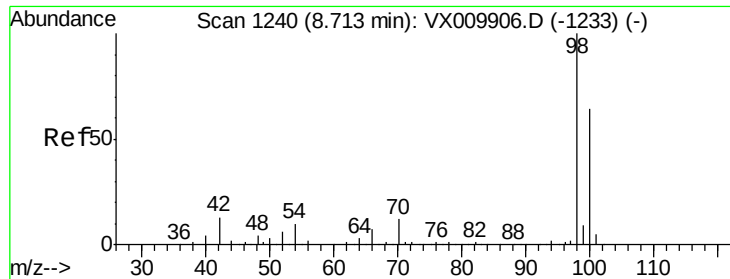
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	16.7	50.1#
77	0.2	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.647 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX010011.D
 Acq: 01 Jun 2019 02:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	77.3	115.9#
121	0.0	25.4	38.0#





#50

Toluene-d8

Concen: 49.641 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010011.D

Acq: 01 Jun 2019 02:31

Instrument :

MSVOA_X

ClientSampleId :

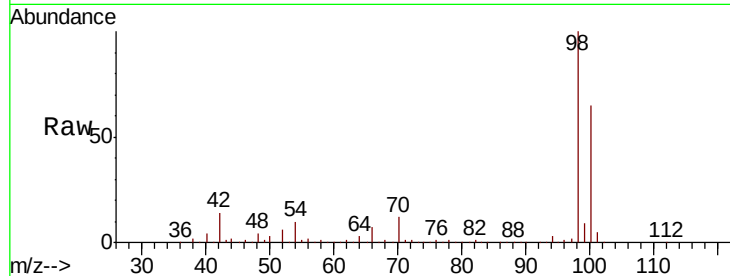
LF012MW144-190528

Tot Ion: 98 Resp: 356837

Ion Ratio Lower Upper

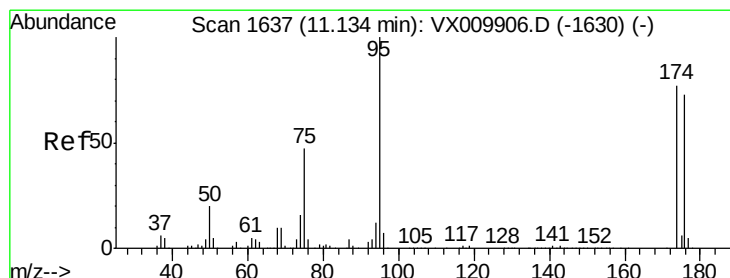
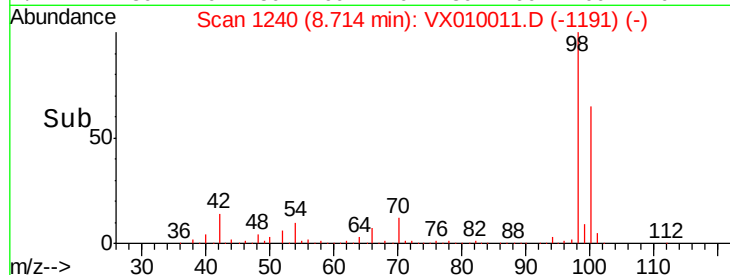
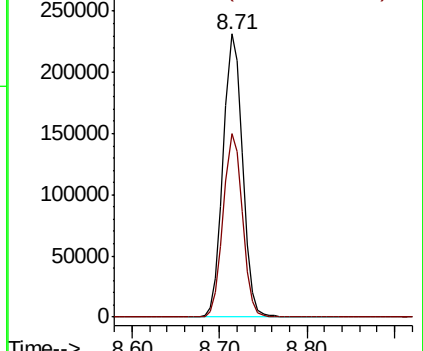
98 100

100 64.2 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 47.643 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010011.D

Acq: 01 Jun 2019 02:31

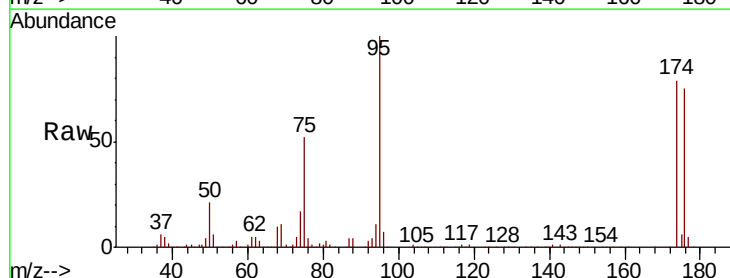
Tgt Ion: 95 Resp: 123013

Ion Ratio Lower Upper

95 100

174 82.8 0.0 160.4

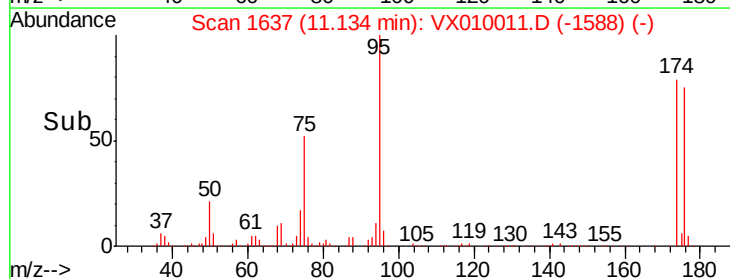
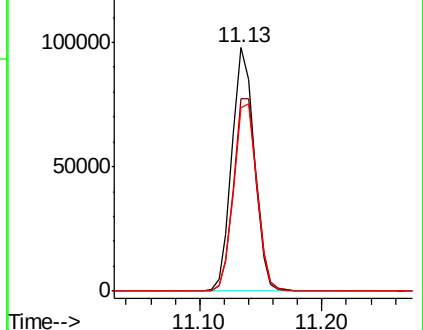
176 79.7 0.0 154.6

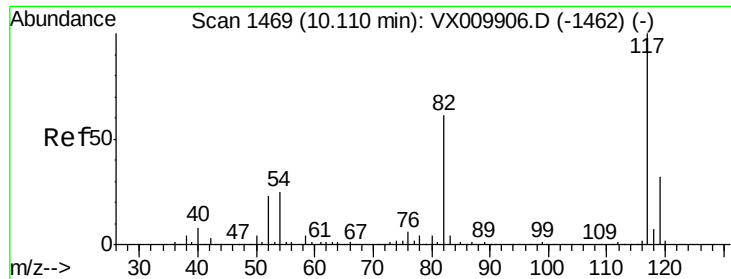


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

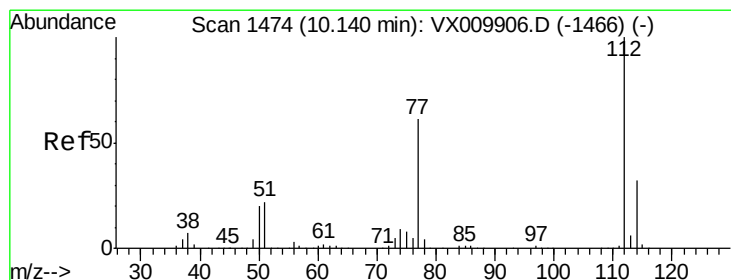
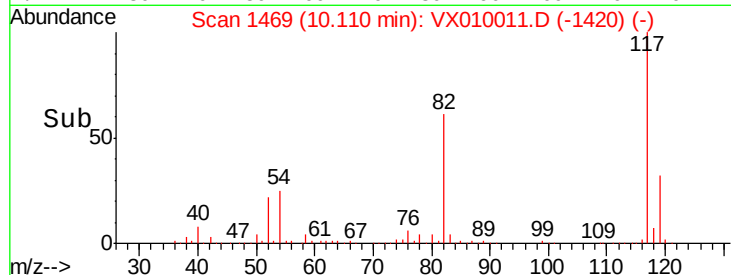
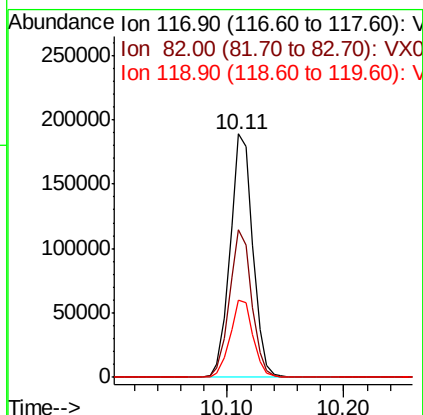
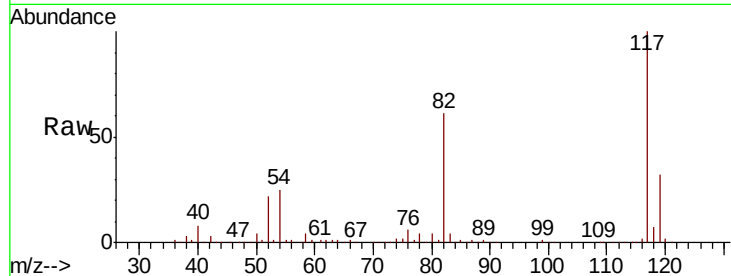




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010011.D
Acq: 01 Jun 2019 02:31

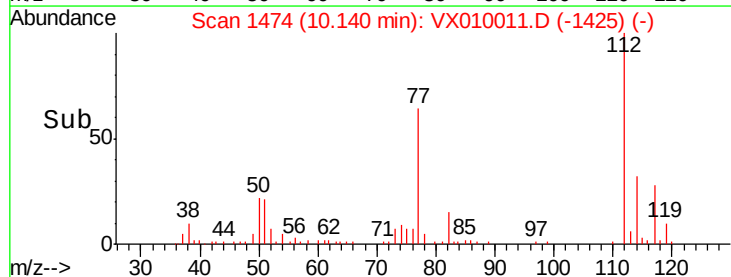
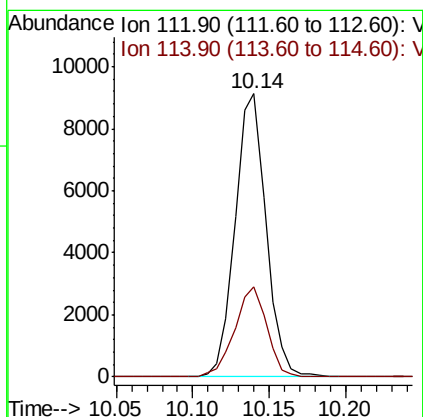
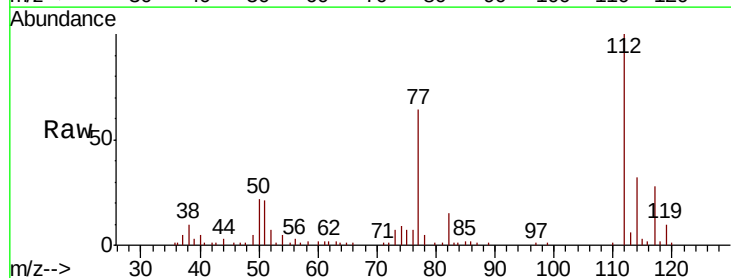
Instrument :
MSVOA_X
ClientSampleId :
LF012MW144-190528

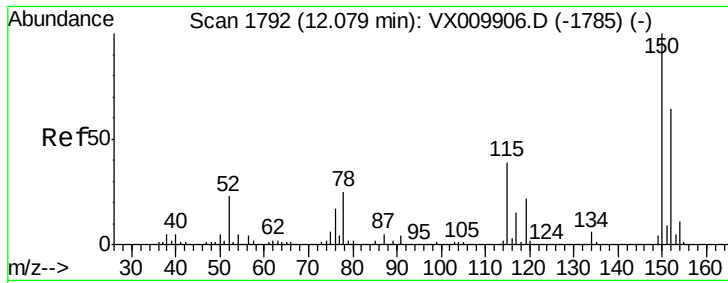
Tot Ion:117 Resp: 255345
Ion Ratio Lower Upper
117 100
82 60.7 49.2 73.8
119 31.9 25.2 37.8



#65
Chlorobenzene
Concen: 2.395 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VX010011.D
Acq: 01 Jun 2019 02:31

Tgt Ion:112 Resp: 12803
Ion Ratio Lower Upper
112 100
114 32.0 25.8 38.8



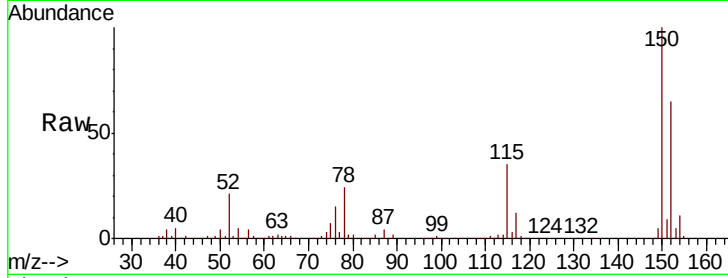


#72

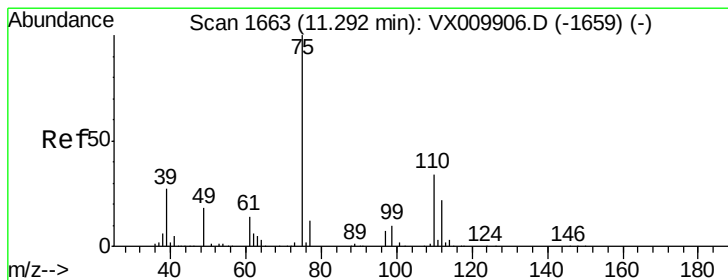
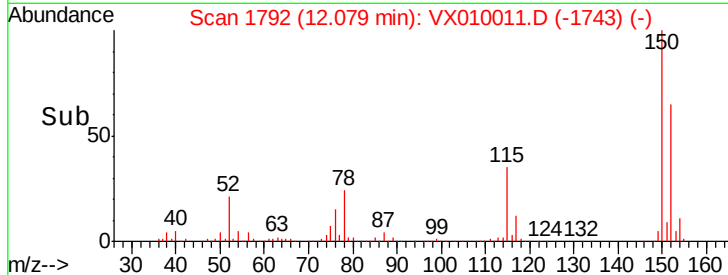
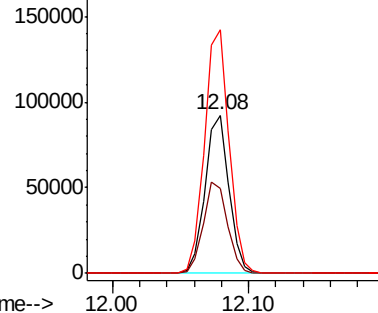
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010011.D
Acq: 01 Jun 2019 02:31

Instrument :
MSVOA_X
ClientSampleId :
LF012MW144-190528

Tot Ion:152 Resp: 112855
Ion Ratio Lower Upper
152 100
115 58.6 41.4 124.2
150 157.5 0.0 345.2



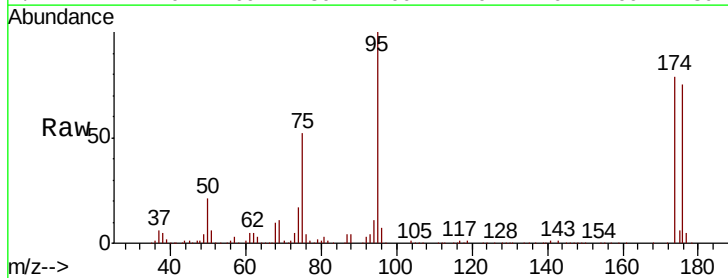
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



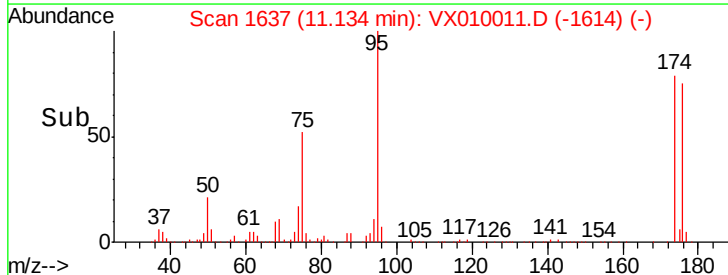
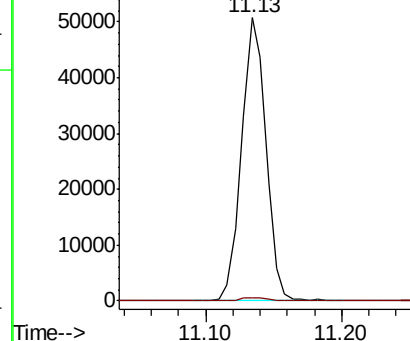
#76

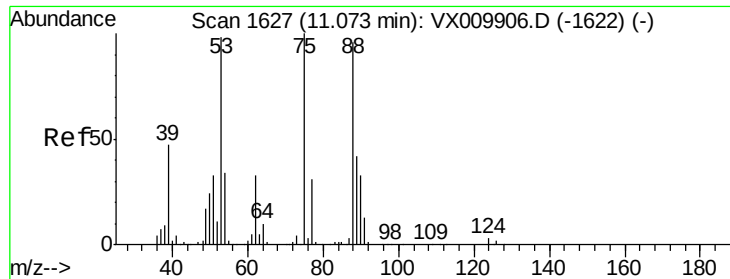
1,2,3-Trichloropropane
Concen: 23.503 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX010011.D
Acq: 01 Jun 2019 02:31

Tgt Ion: 75 Resp: 63427
Ion Ratio Lower Upper
75 100
77 1.2 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 58.149 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010011.D

Acq: 01 Jun 2019 02:31

Instrument :

MSVOA_X

ClientSampleId :

LF012MW144-190528

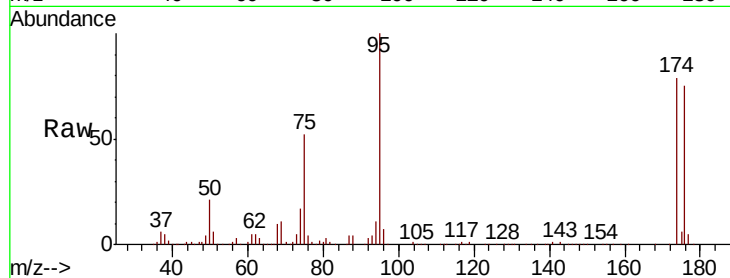
Tot Ion: 75 Resp: 63427

Ion Ratio Lower Upper

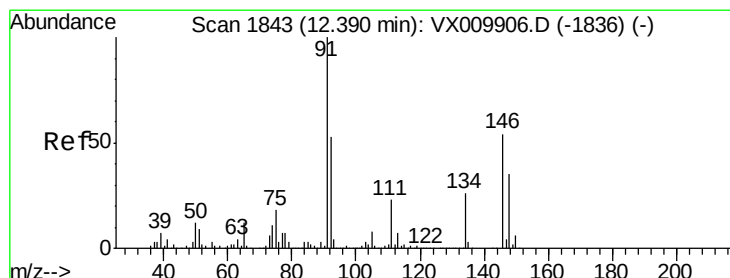
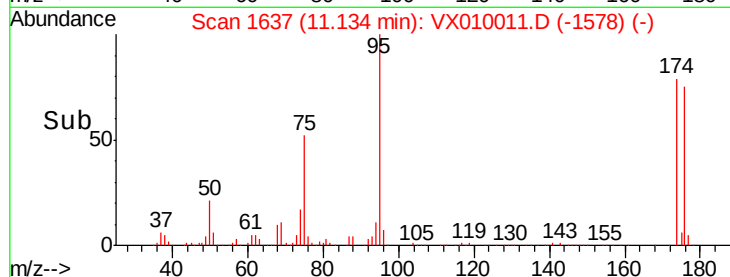
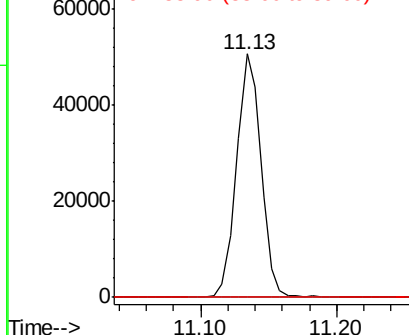
75 100

53 0.2 79.8 119.6#

89 0.0 34.2 51.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#91

1,2-Dichlorobenzene

Concen: 1.419 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX010011.D

Acq: 01 Jun 2019 02:31

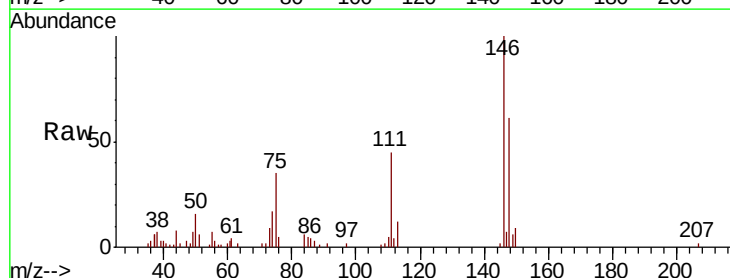
Tgt Ion: 146 Resp: 5287

Ion Ratio Lower Upper

146 100

111 41.3 21.1 63.1

148 61.2 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

