

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX053119\
 Data File : VX009987.D
 Acq On : 31 May 2019 16:00
 Operator : JC/SP
 Sample : K3131-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF014MW028-190530

Quant Time: Jun 01 04:43:57 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	183325	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	295653	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	271447	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	123449	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	123571	47.72	ug/l	0.00
Spiked Amount			Recovery	=	95.44%	
35) Dibromofluoromethane	5.49	113	91365	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
50) Toluene-d8	8.71	98	376226	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
62) 4-Bromofluorobenzene	11.13	95	132151	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	

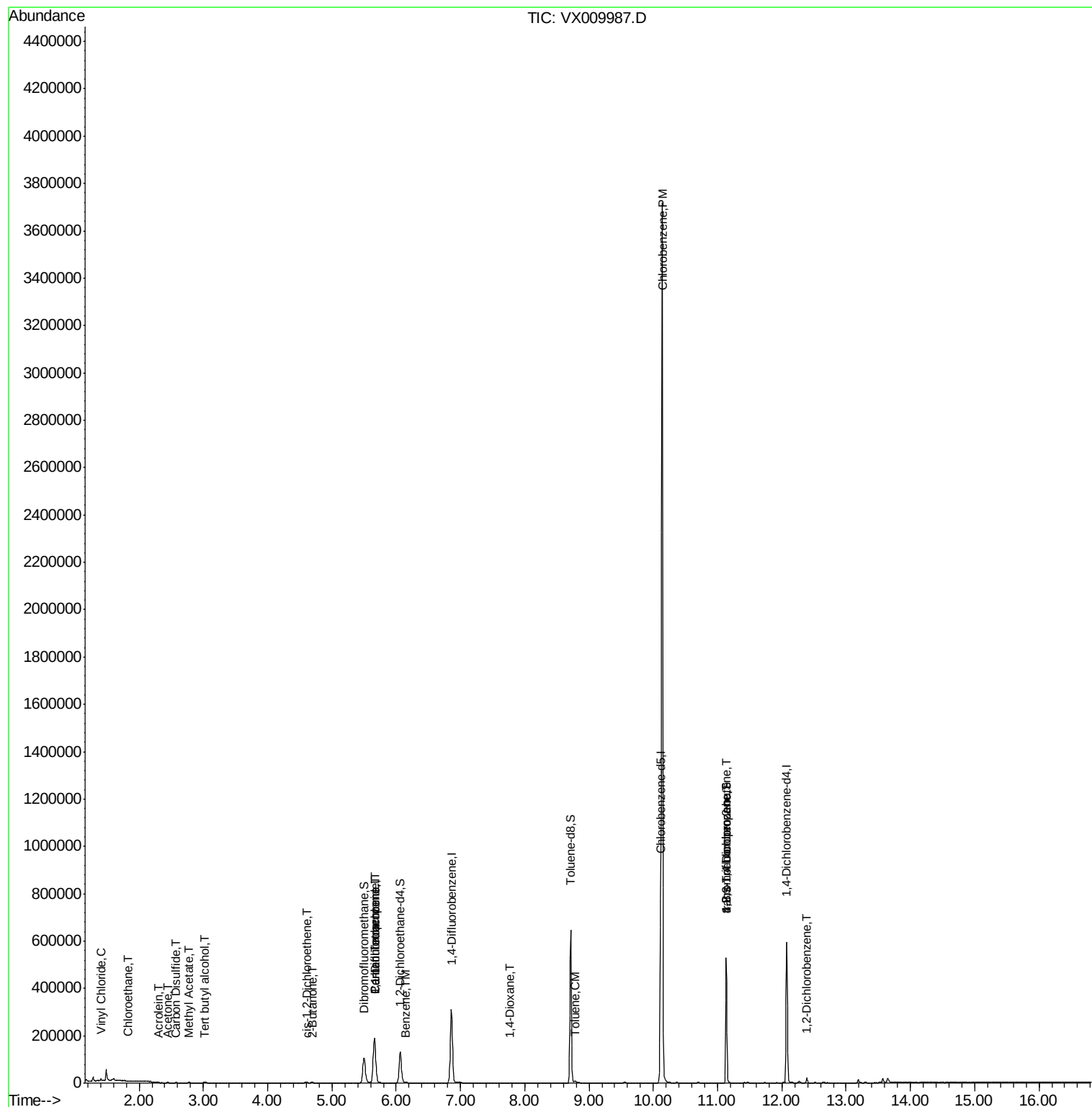
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	4724	1.740	ug/l #	81
6) Chloroethane	1.82	64	935	0.559	ug/l #	43
11) Tert butyl alcohol	3.02	59	1874	2.941	ug/l #	87
13) Acrolein	2.29	56	72	21.243	ug/l #	14
16) Acetone	2.45	43	1343	0.898	ug/l	93
17) Carbon Disulfide	2.57	76	943	0.551	ug/l #	84
18) Methyl Acetate	2.78	43	3154	0.906	ug/l	96
25) 2-Butanone	4.70	43	556	0.239	ug/l #	54
27) cis-1,2-Dichloroethene	4.60	96	1265	0.530	ug/l	73
36) 1,1-Dichloropropene	5.67	75	14371	4.791	ug/l #	50
38) Carbon Tetrachloride	5.67	117	17215	6.641	ug/l #	15
40) Benzene	6.14	78	2513	0.282	ug/l #	75
49) 1,4-Dioxane	7.76	88	19	0.306	ug/l #	1
52) Toluene	8.79	92	2292	0.424	ug/l	93
65) Chlorobenzene	10.14	112	1572922	276.788	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	67986	23.030	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	67986	56.980	ug/l #	10
91) 1,2-Dichlorobenzene	12.39	146	6112	1.500	ug/l	98

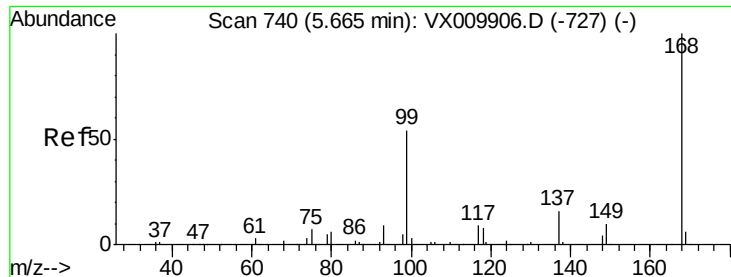
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 29 04:00:56 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009987.D

Acq: 31 May 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

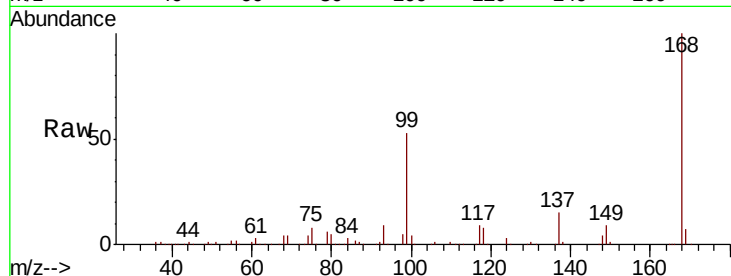
LF014MW028-190530

Tot Ion:168 Resp: 183325

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

5.67

60000

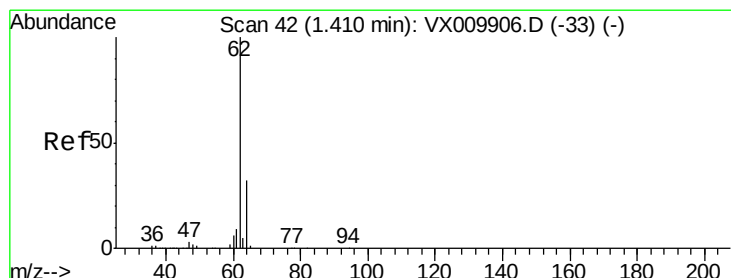
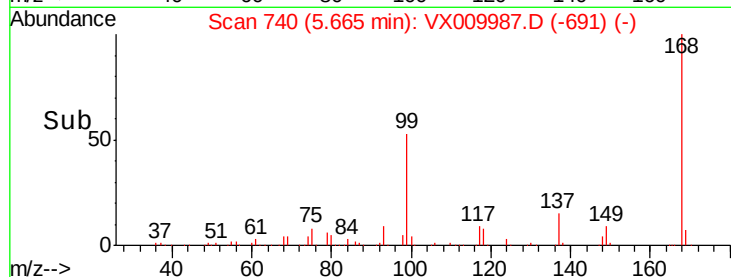
40000

20000

0

Time-->

5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 1.740 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009987.D

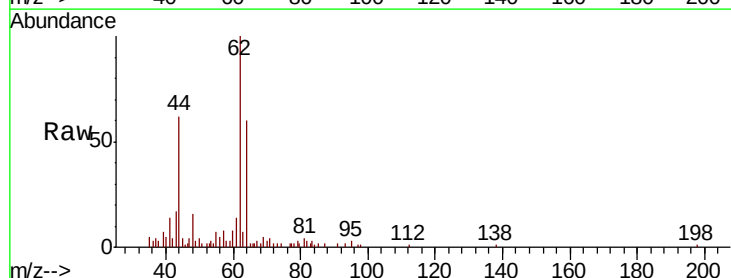
Acq: 31 May 2019 16:00

Tgt Ion: 62 Resp: 4724

Ion Ratio Lower Upper

62 100

64 42.5 25.7 38.5#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

4000

3000

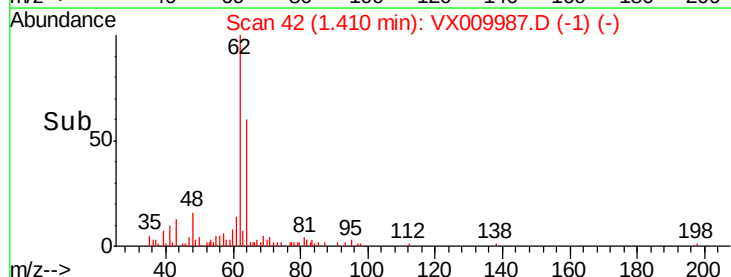
2000

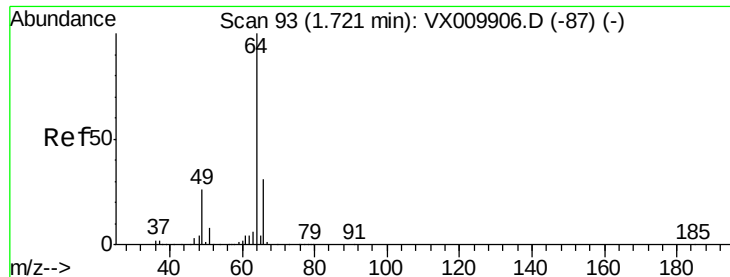
1000

0

Time-->

1.35 1.40 1.45





#6

Chloroethane

Concen: 0.559 ug/l

RT: 1.82 min Scan# 110

Delta R.T. 0.10 min

Lab File: VX009987.D

Acq: 31 May 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

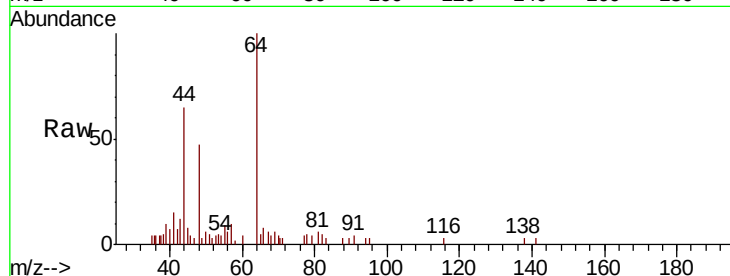
LF014MW028-190530

Tot Ion: 64 Resp: 935

Ion Ratio Lower Upper

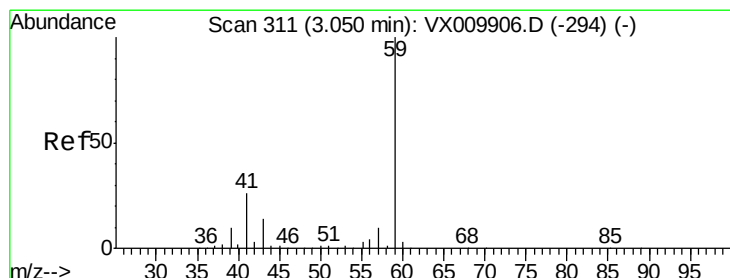
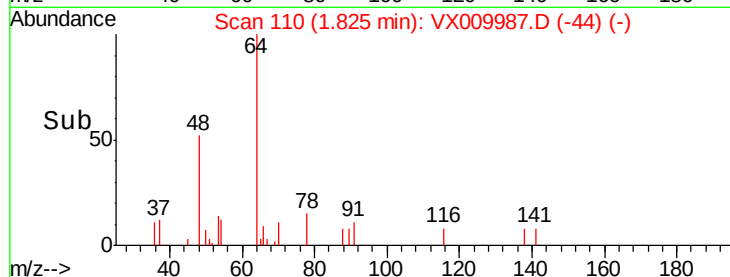
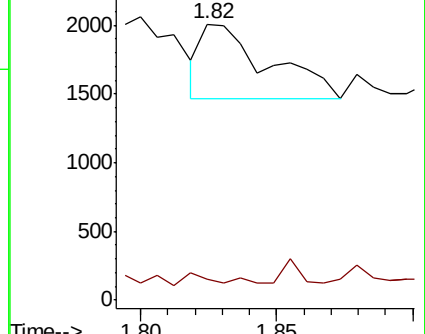
64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 2.941 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX009987.D

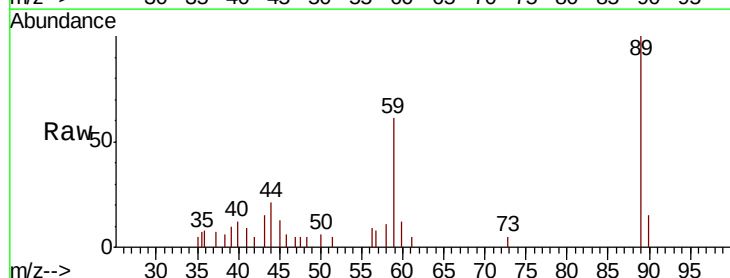
Acq: 31 May 2019 16:00

Tgt Ion: 59 Resp: 1874

Ion Ratio Lower Upper

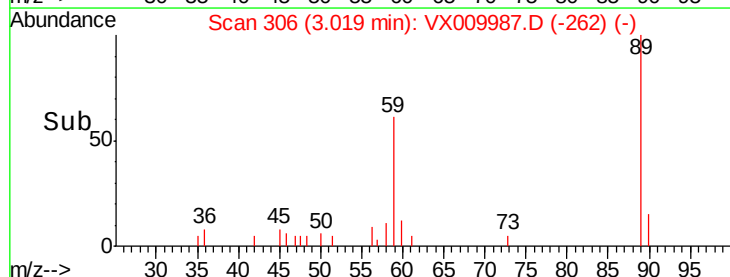
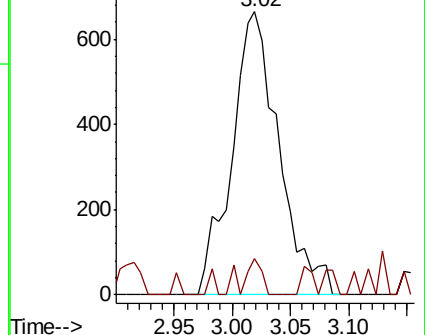
59 100

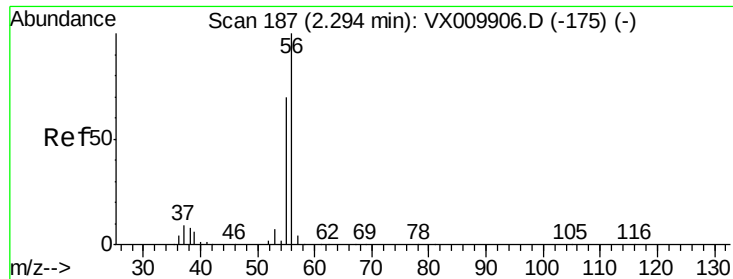
57 5.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 21.243 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX009987.D

Acq: 31 May 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

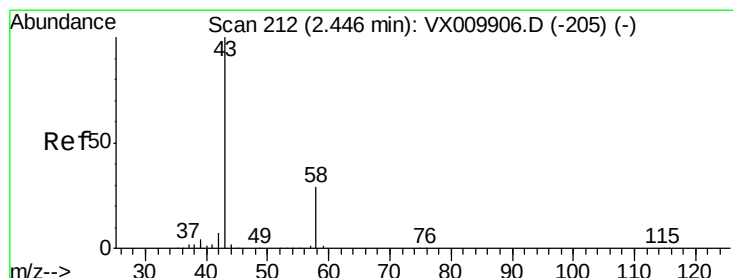
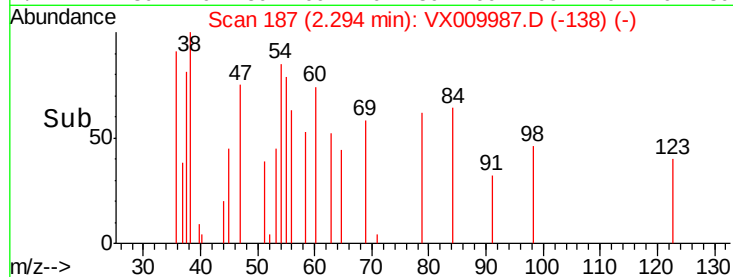
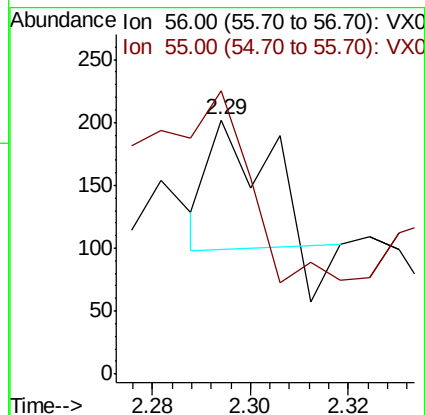
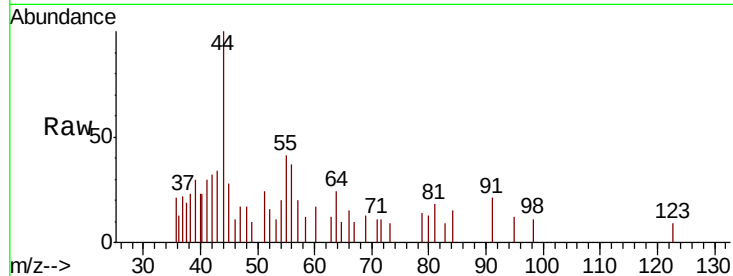
LF014MW028-190530

Tot Ion: 56 Resp: 72

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 0.898 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009987.D

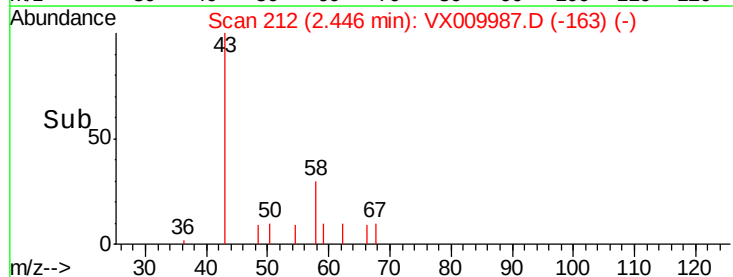
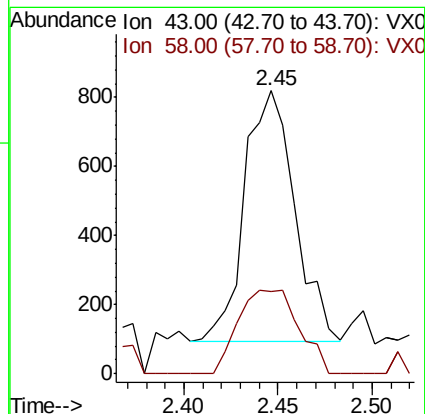
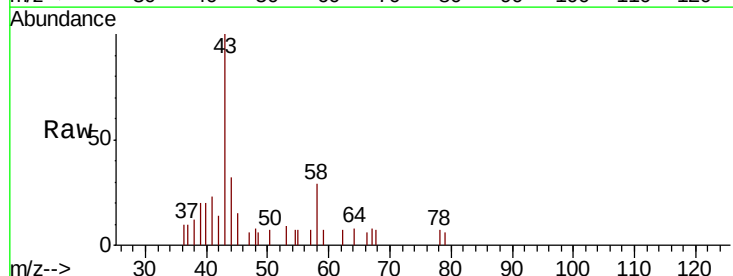
Acq: 31 May 2019 16:00

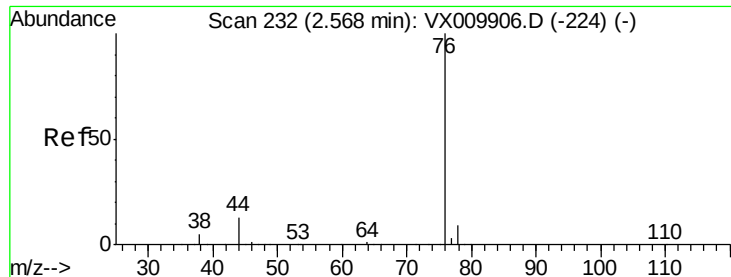
Tgt Ion: 43 Resp: 1343

Ion Ratio Lower Upper

43 100

58 32.6 23.2 34.8





#17

Carbon Disulfide

Concen: 0.551 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009987.D

Acq: 31 May 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

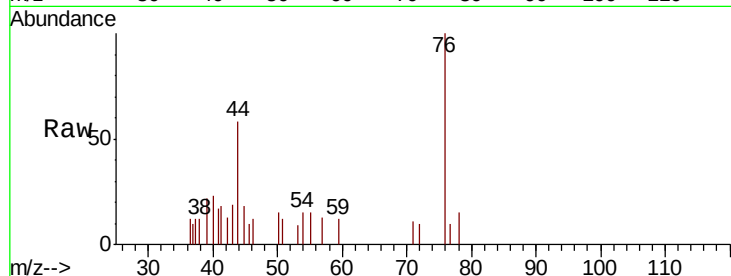
LF014MW028-190530

Tot Ion: 76 Resp: 943

Ion Ratio Lower Upper

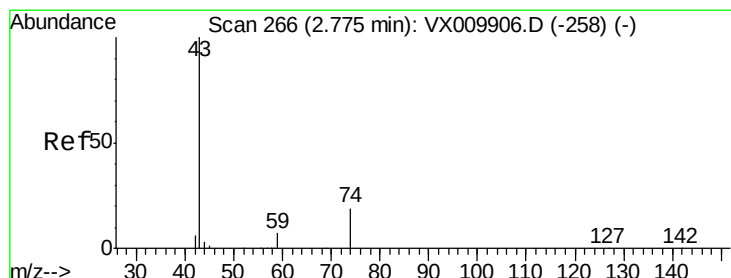
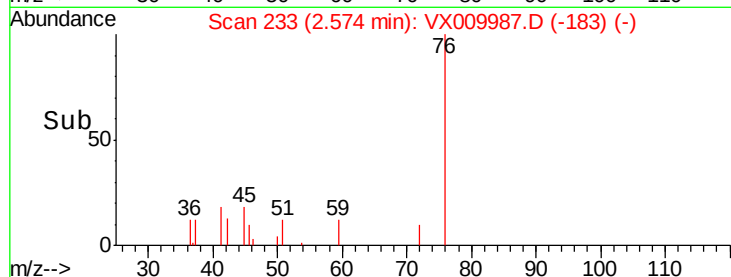
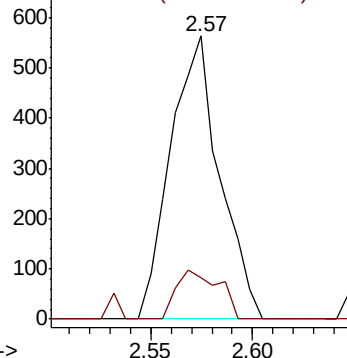
76 100

78 14.6 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.906 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX009987.D

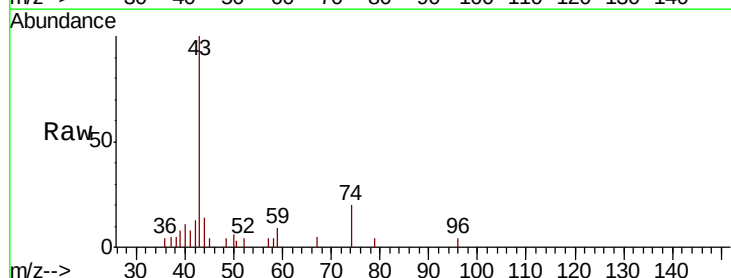
Acq: 31 May 2019 16:00

Tgt Ion: 43 Resp: 3154

Ion Ratio Lower Upper

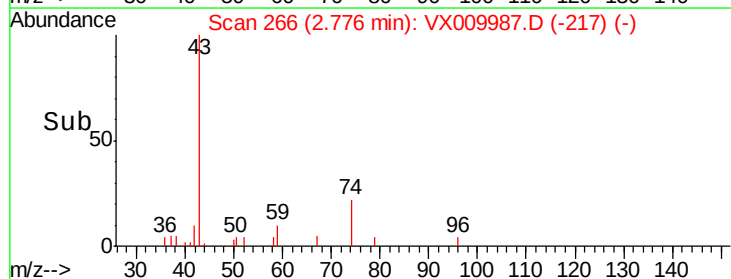
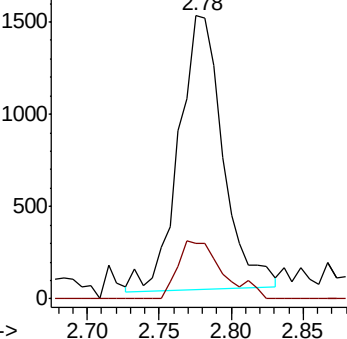
43 100

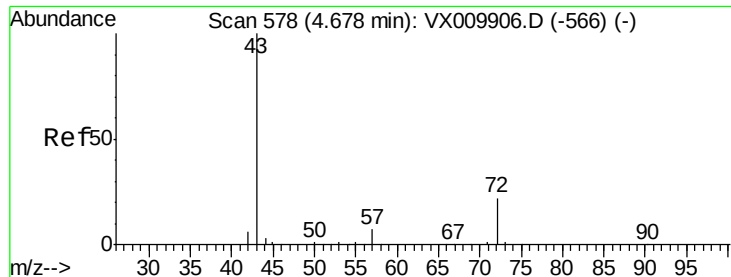
74 21.5 15.8 23.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#25

2-Butanone

Concen: 0.239 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.02 min

Lab File: VX009987.D

Acq: 31 May 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

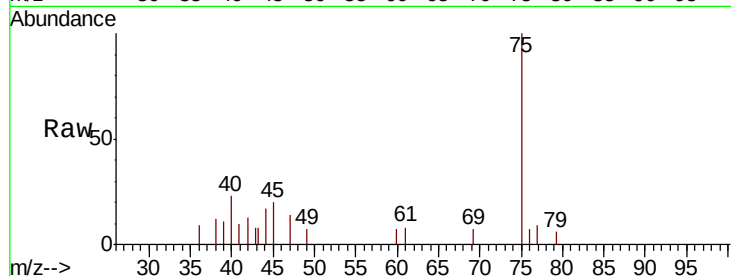
LF014MW028-190530

Tot Ion: 43 Resp: 556

Ion Ratio Lower Upper

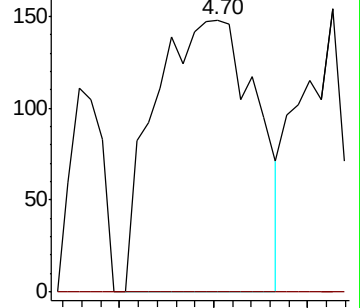
43 100

72 0.0 17.5 26.3#

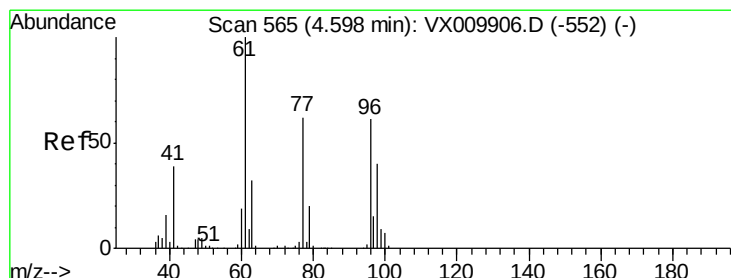
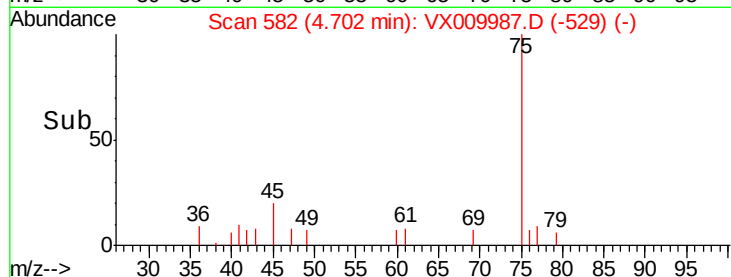


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.530 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX009987.D

Acq: 31 May 2019 16:00

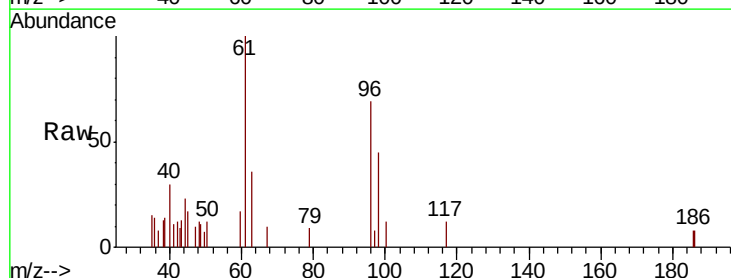
Tgt Ion: 96 Resp: 1265

Ion Ratio Lower Upper

96 100

61 216.8 0.0 334.0

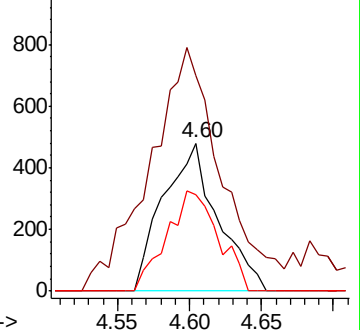
98 64.2 0.0 131.6



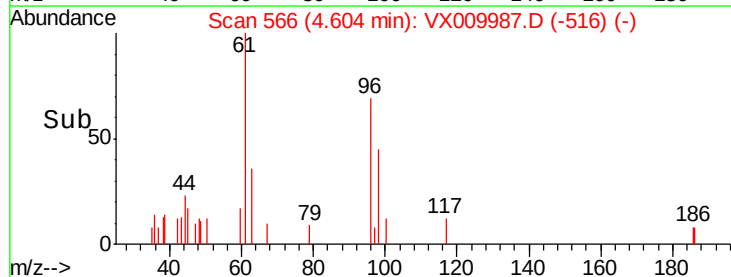
Abundance Ion 95.90 (95.60 to 96.60): VX0

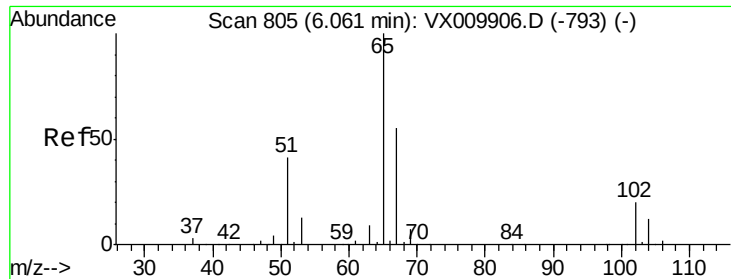
Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->

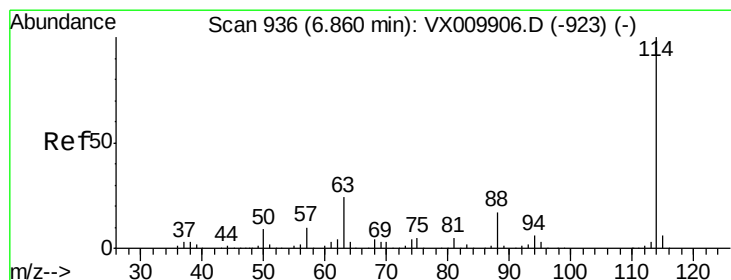
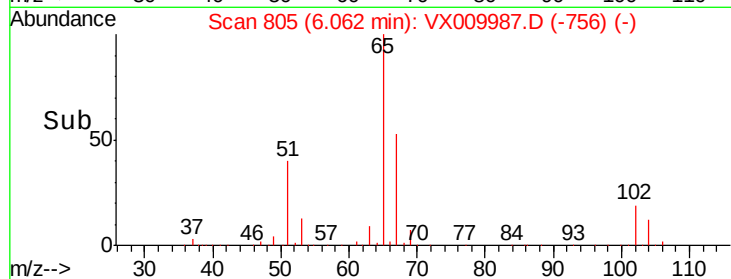
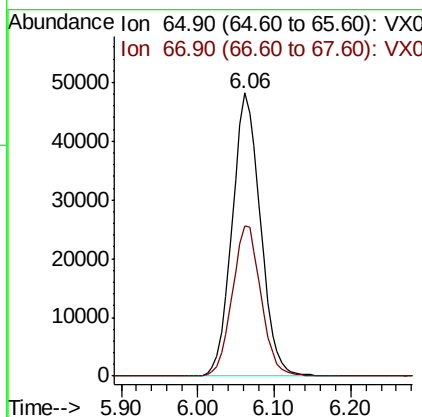
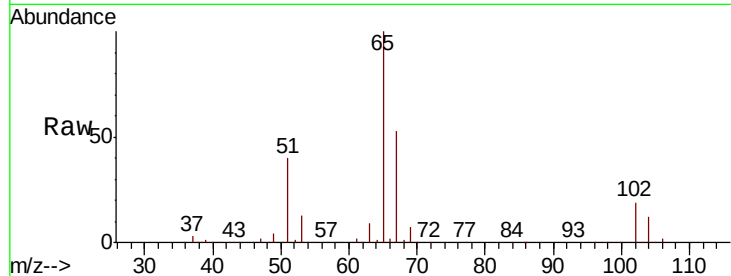




#33
 1,2-Dichloroethane-d4
 Concen: 47.718 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009987.D
 Acq: 31 May 2019 16:00

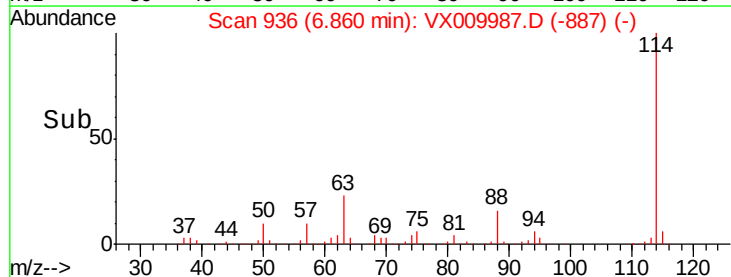
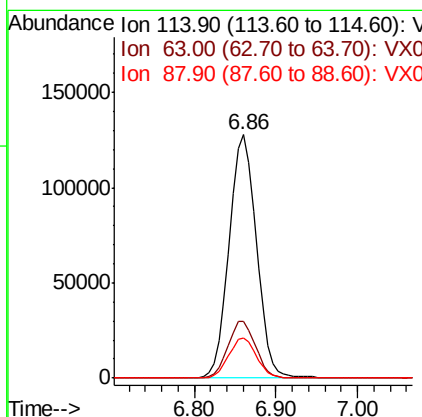
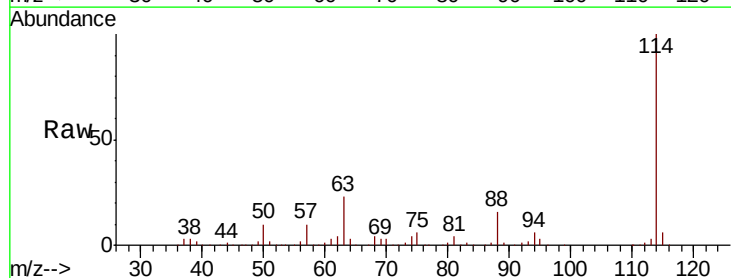
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 LF014MW028-190530

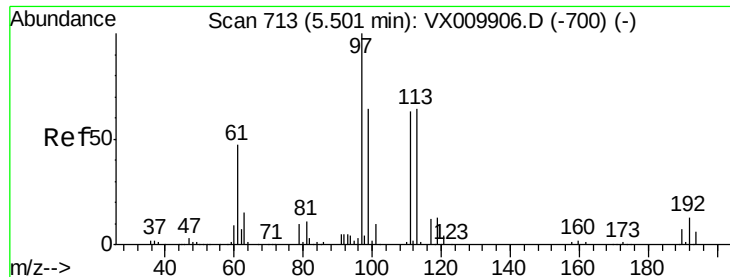
Tot Ion: 65 Resp: 123571
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009987.D
 Acq: 31 May 2019 16:00

Tgt Ion: 114 Resp: 295653
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 47.4
 88 16.2 0.0 33.0

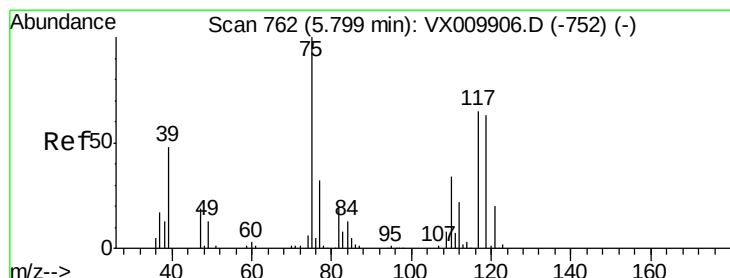
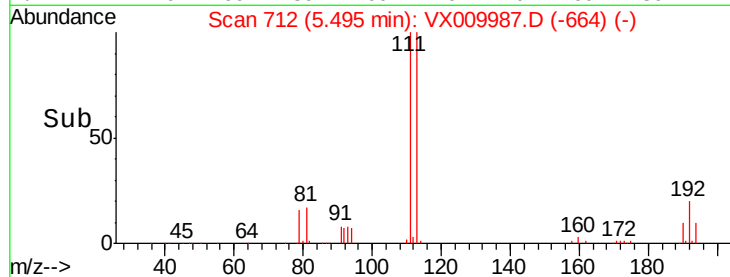
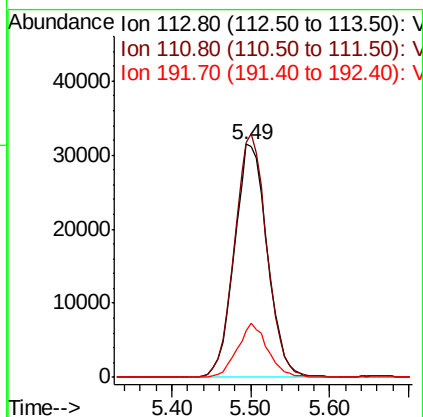
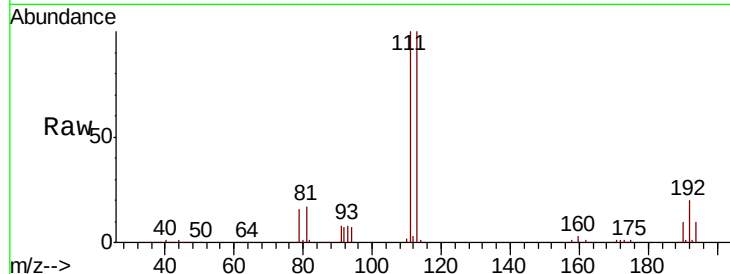




#35
 Dibromofluoromethane
 Concen: 49.153 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX009987.D
 Acq: 31 May 2019 16:00

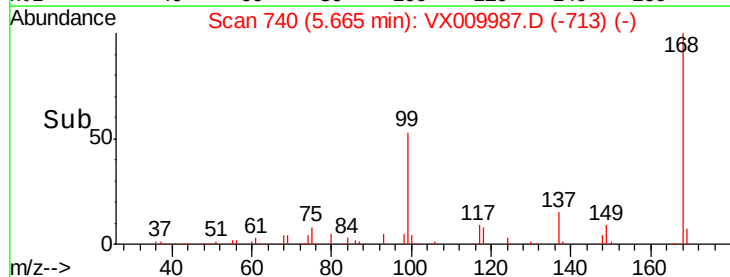
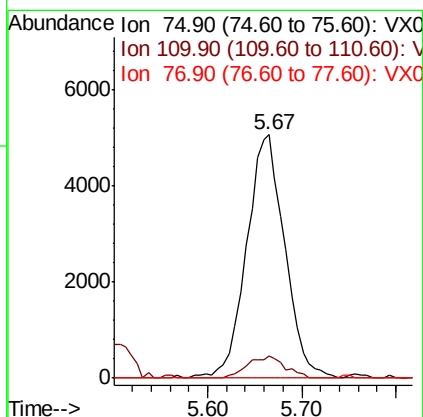
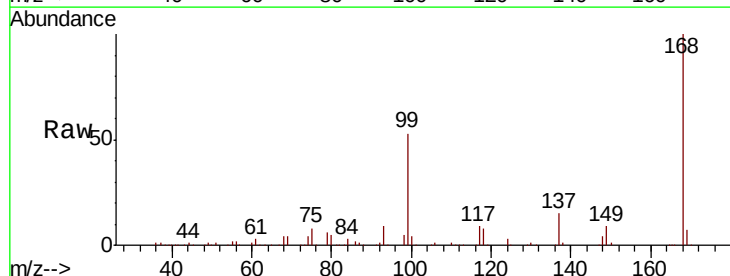
Instrument :
 MSVOA_X
 ClientSampleId :
 LF014MW028-190530

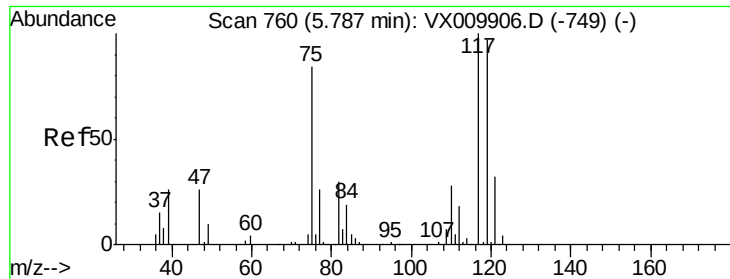
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.2	123.2
192	21.3	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.791 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009987.D
 Acq: 31 May 2019 16:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.7	50.1#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.641 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009987.D

Acq: 31 May 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

LF014MW028-190530

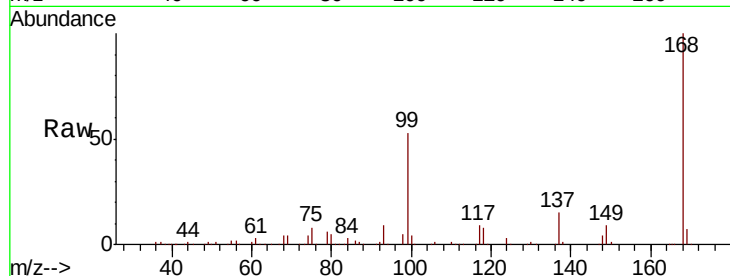
Tot Ion:117 Resp: 17215

Ion Ratio Lower Upper

117 100

119 4.7 77.3 115.9#

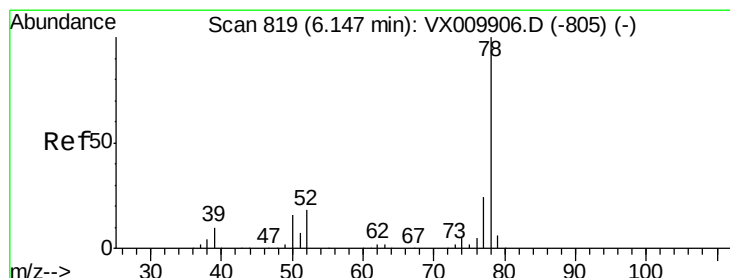
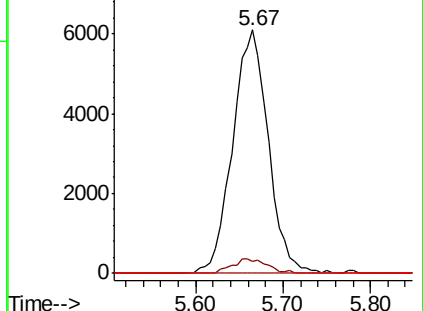
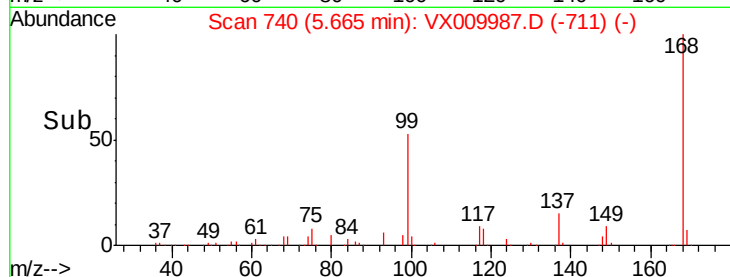
121 0.0 25.4 38.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 0.282 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.01 min

Lab File: VX009987.D

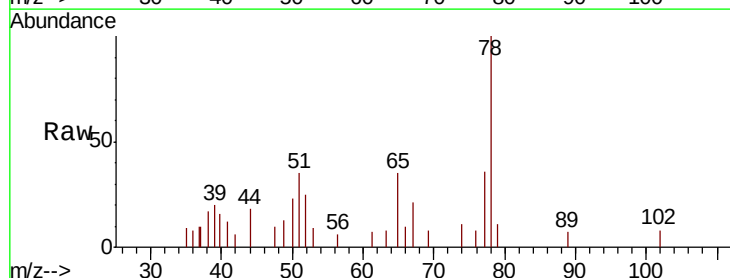
Acq: 31 May 2019 16:00

Tgt Ion: 78 Resp: 2513

Ion Ratio Lower Upper

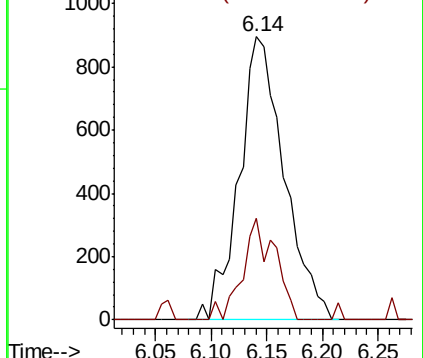
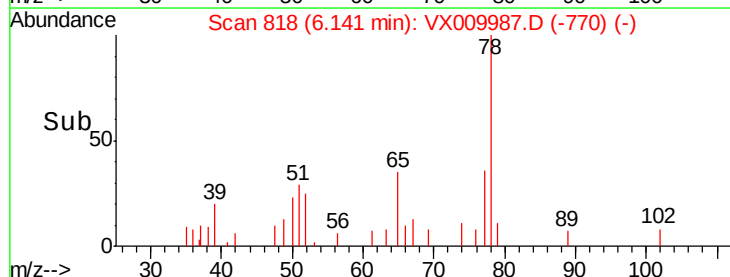
78 100

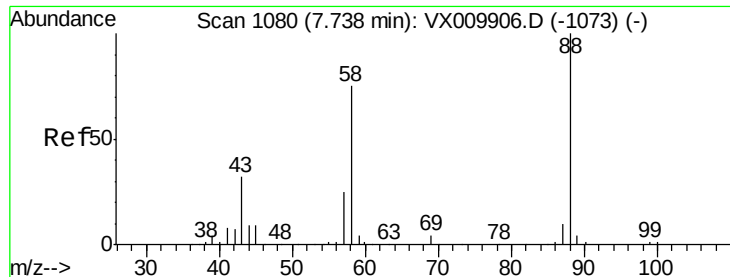
77 36.1 19.2 28.8#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#49

1,4-Dioxane

Concen: 0.306 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VX009987.D

Acq: 31 May 2019 16:00

Instrument :

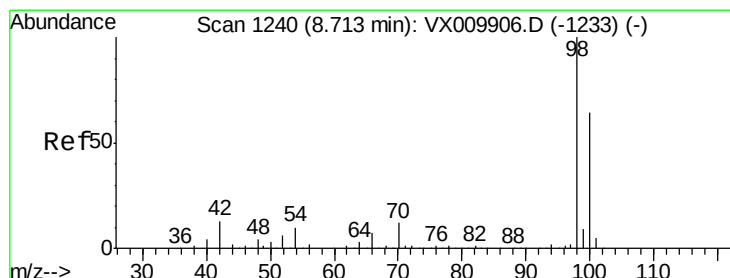
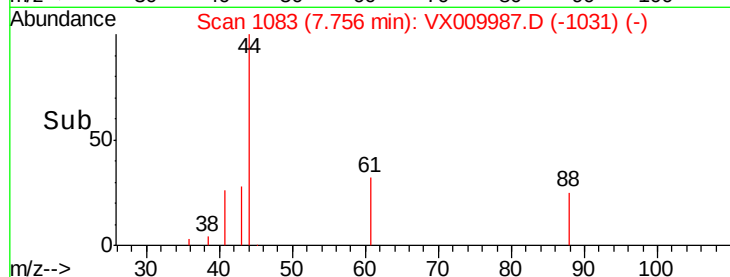
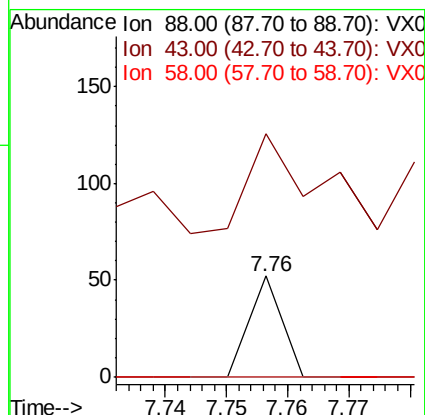
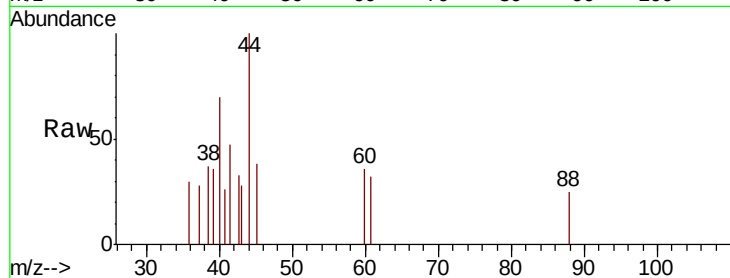
MSVOA_X

ClientSampleId :

LF014MW028-190530

Tot Ion: 88 Resp: 19

Ion	Ratio	Lower	Upper
88	100		
43	215.8	30.2	45.4#
58	0.0	64.0	96.0#



#50

Toluene-d8

Concen: 49.844 ug/l

RT: 8.71 min Scan# 1240

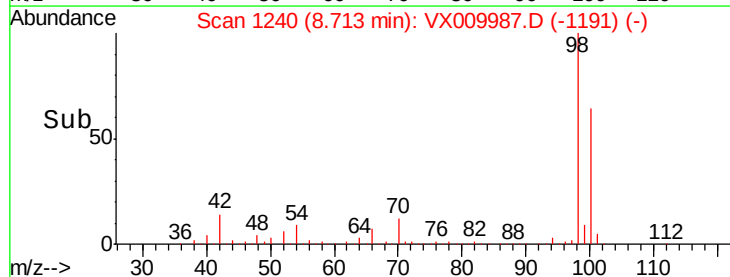
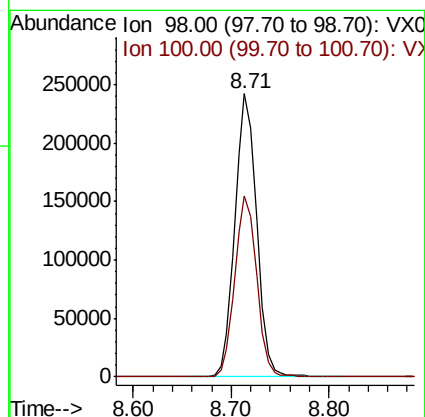
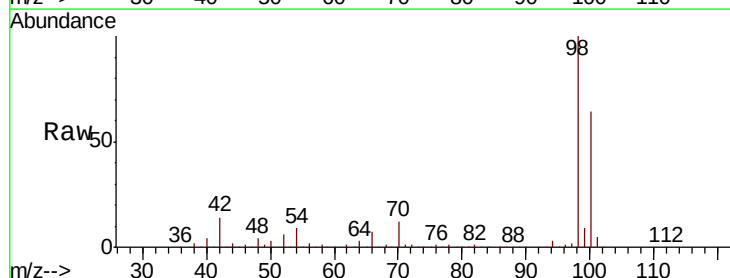
Delta R.T. 0.00 min

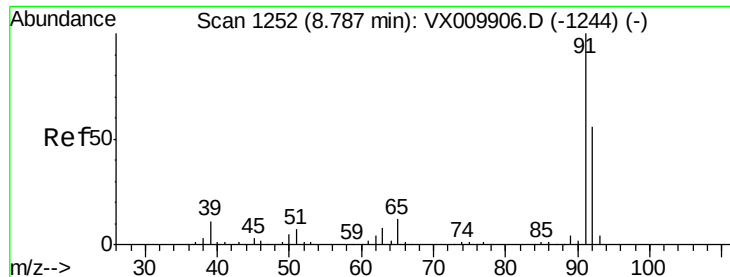
Lab File: VX009987.D

Acq: 31 May 2019 16:00

Tgt Ion: 98 Resp: 376226

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.5	77.3





#52

Toluene

Concen: 0.424 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX009987.D

Acq: 31 May 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

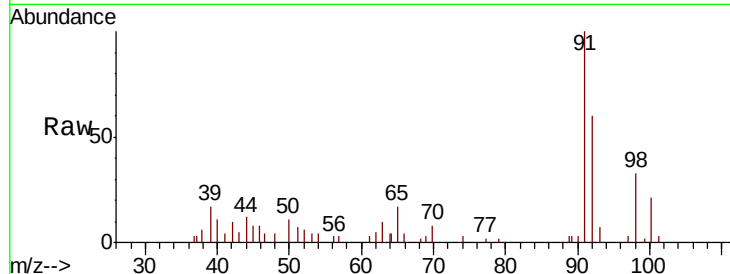
LF014MW028-190530

Tot Ion: 92 Resp: 2292

Ion Ratio Lower Upper

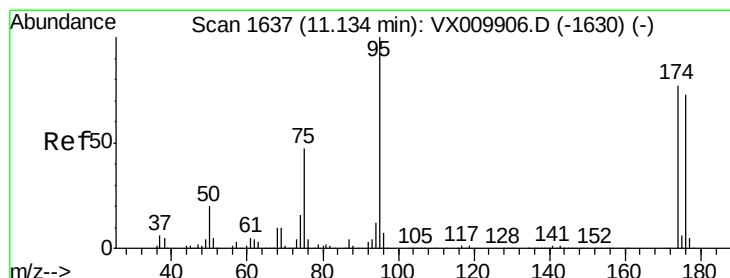
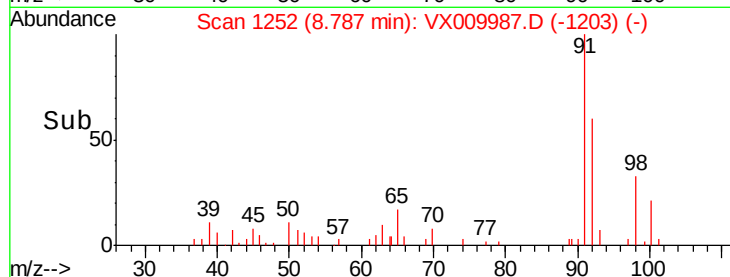
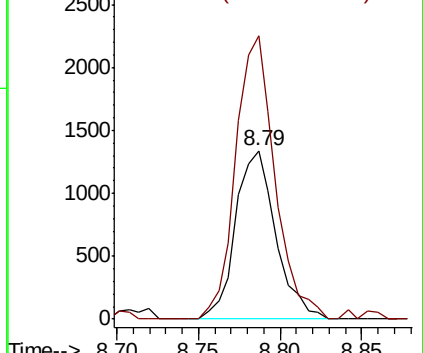
92 100

91 164.7 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 48.744 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009987.D

Acq: 31 May 2019 16:00

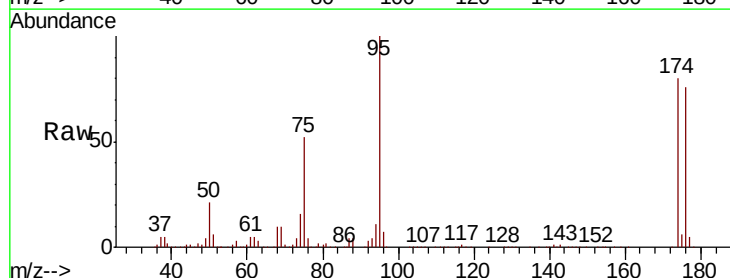
Tgt Ion: 95 Resp: 132151

Ion Ratio Lower Upper

95 100

174 82.3 0.0 160.4

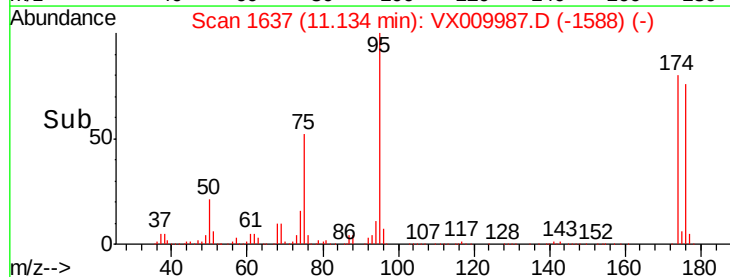
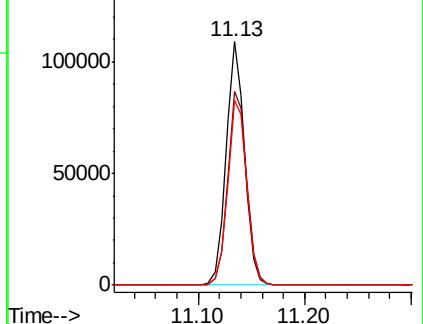
176 79.2 0.0 154.6

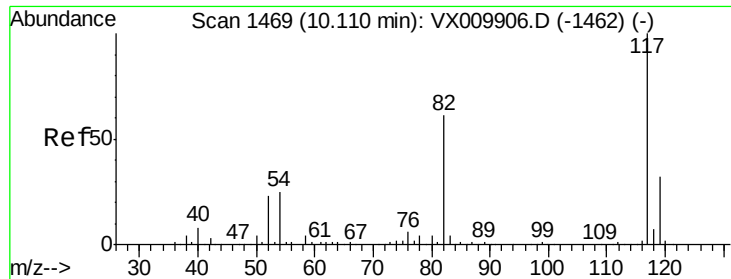


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

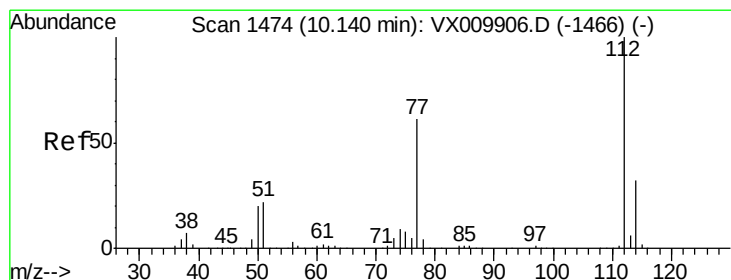
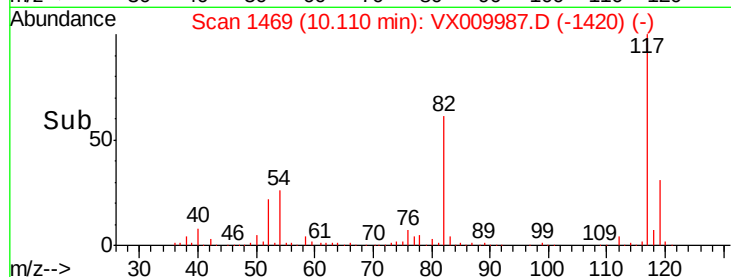
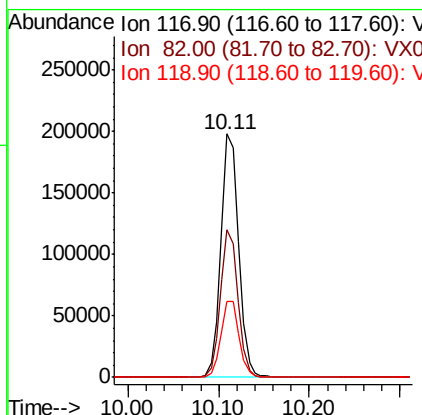
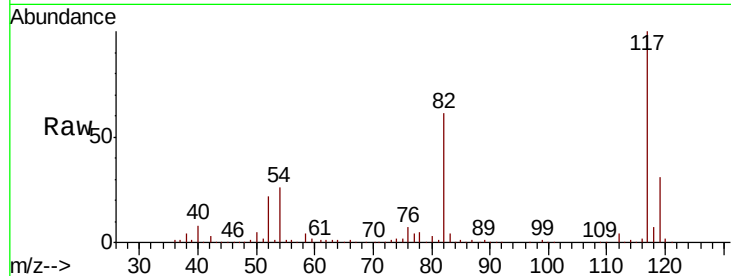




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009987.D
Acq: 31 May 2019 16:00

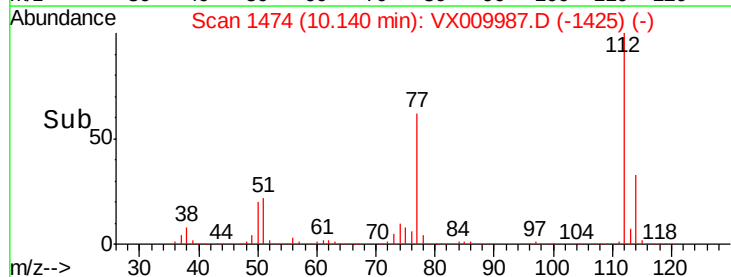
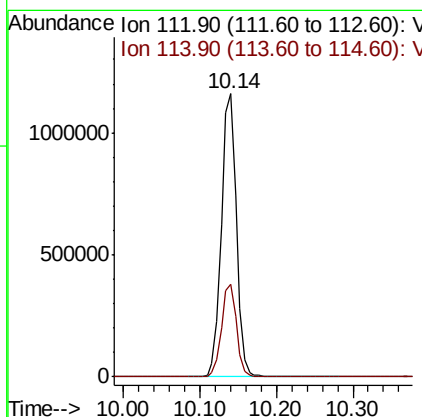
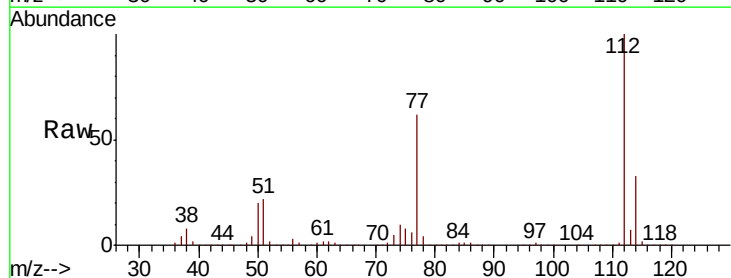
Instrument :
MSVOA_X
ClientSampleId :
LF014MW028-190530

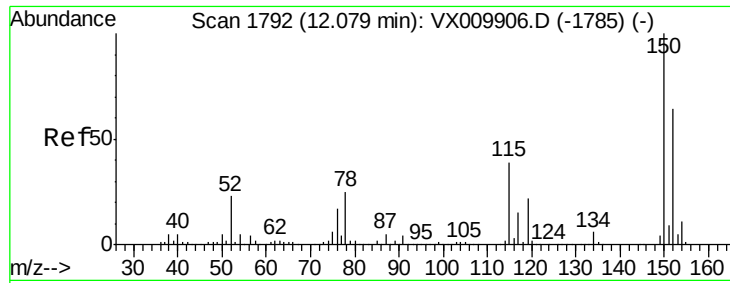
Tot Ion:117 Resp: 271447
Ion Ratio Lower Upper
117 100
82 60.7 49.2 73.8
119 31.1 25.2 37.8



#65
Chlorobenzene
Concen: 276.788 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VX009987.D
Acq: 31 May 2019 16:00

Tgt Ion:112 Resp: 1572922
Ion Ratio Lower Upper
112 100
114 32.8 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: VX009987.D

Acq: 31 May 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

LF014MW028-190530

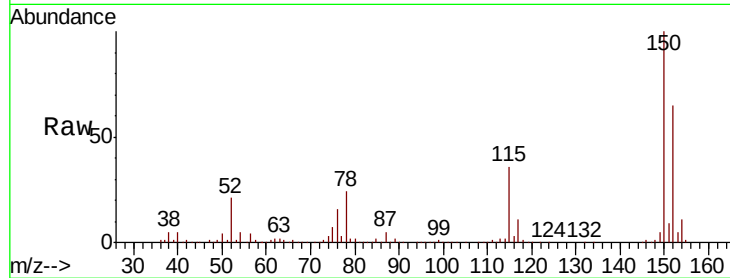
Tot Ion:152 Resp: 123449

Ion Ratio Lower Upper

152 100

115 58.3 41.4 124.2

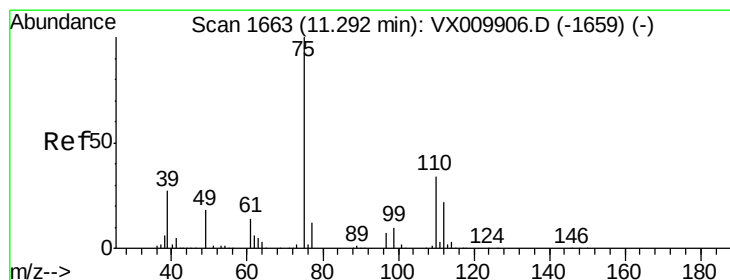
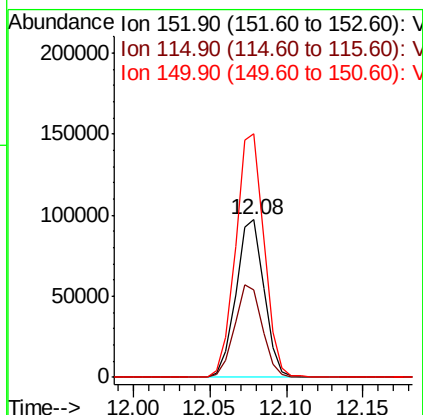
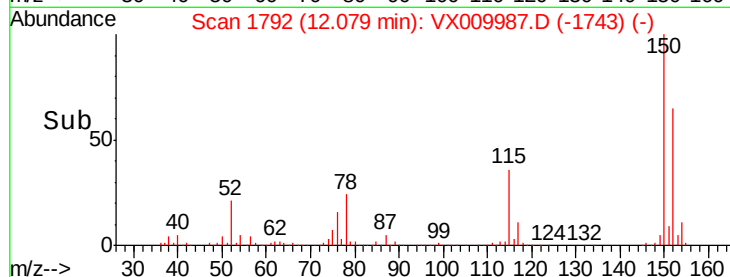
150 156.2 0.0 345.2



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: 23.030 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009987.D

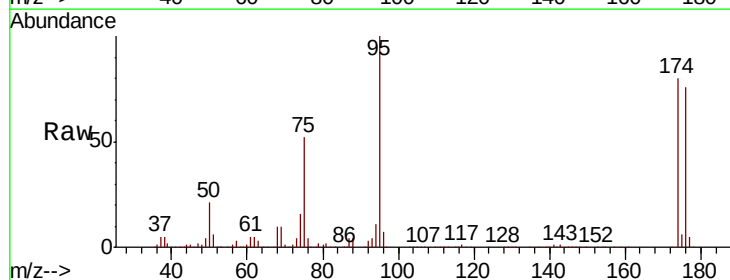
Acq: 31 May 2019 16:00

Tgt Ion: 75 Resp: 67986

Ion Ratio Lower Upper

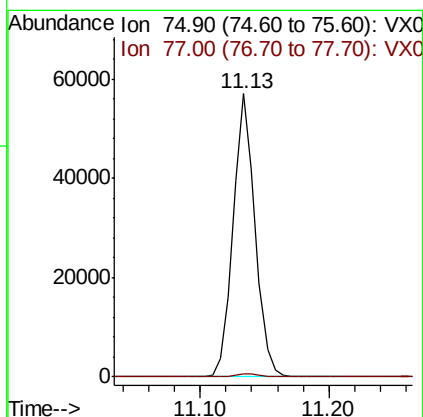
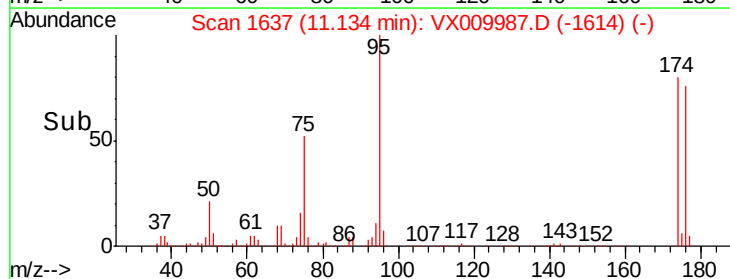
75 100

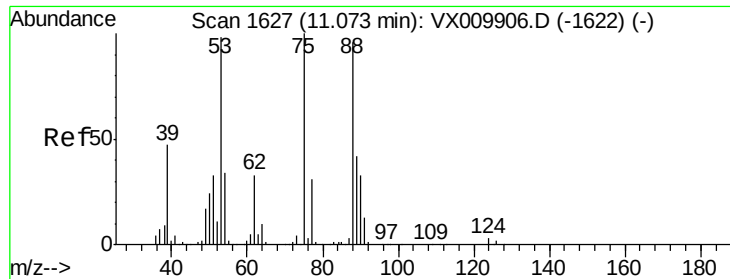
77 1.2 22.1 66.1#



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: 56.980 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009987.D

Acq: 31 May 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

LF014MW028-190530

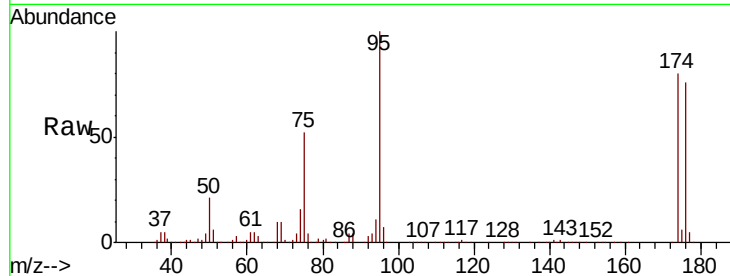
Tot Ion: 75 Resp: 67986

Ion Ratio Lower Upper

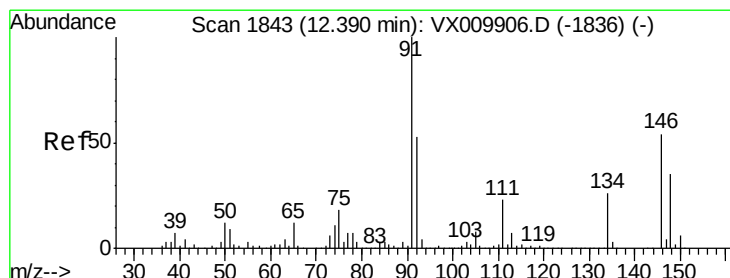
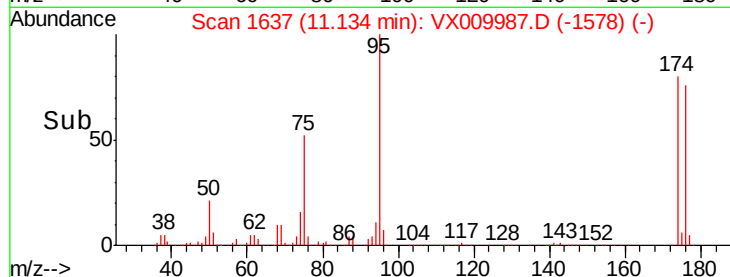
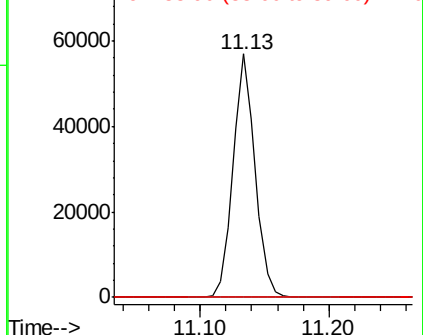
75 100

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: 1.500 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX009987.D

Acq: 31 May 2019 16:00

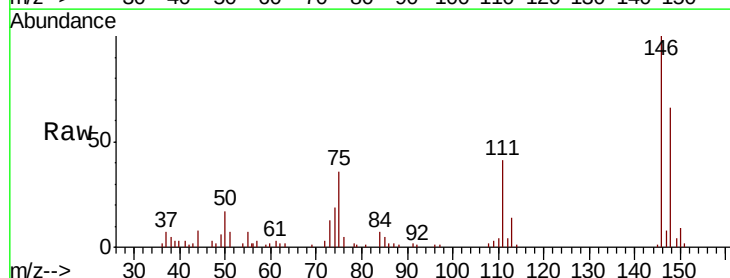
Tgt Ion: 146 Resp: 6112

Ion Ratio Lower Upper

146 100

111 43.1 21.1 63.1

148 66.2 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

