

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX053119\
 Data File : VX010002.D
 Acq On : 31 May 2019 23:01
 Operator : JC/SP
 Sample : K3131-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z1-TB04-190530

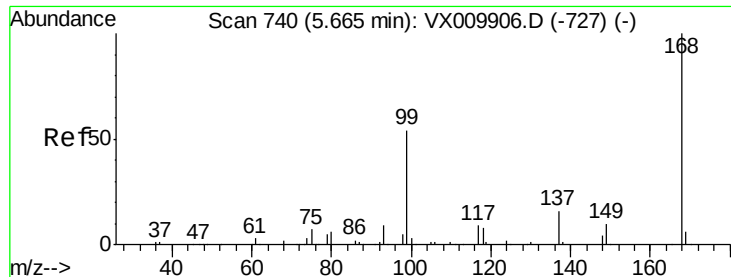
Quant Time: Jun 01 04:47:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	176918	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	279464	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	256653	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	114973	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	117319	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	
35) Dibromofluoromethane	5.50	113	86158	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
50) Toluene-d8	8.71	98	356763	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
62) 4-Bromofluorobenzene	11.13	95	121990	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	609	0.384	ug/l	93
6) Chloroethane	1.65	64	3015	1.869	ug/l #	52
10) Methyl Iodide	2.51	142	509	4.870	ug/l #	72
11) Tert butyl alcohol	3.02	59	5627	9.149	ug/l #	81
13) Acrolein	2.29	56	331	21.792	ug/l	90
15) Acrylonitrile	3.14	53	441	0.298	ug/l #	69
16) Acetone	2.45	43	2060	1.427	ug/l #	86
17) Carbon Disulfide	2.57	76	1696	0.695	ug/l #	91
25) 2-Butanone	4.69	43	786	0.349	ug/l #	44
26) 2,2-Dichloropropane	4.68	77	789	0.260	ug/l #	58
29) Tetrahydrofuran	5.15	42	520	0.360	ug/l #	58
36) 1,1-Dichloropropene	5.66	75	13697	4.831	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16598	6.774	ug/l #	16
49) 1,4-Dioxane	7.56	88	23	0.392	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	63319	23.030	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63319	56.981	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

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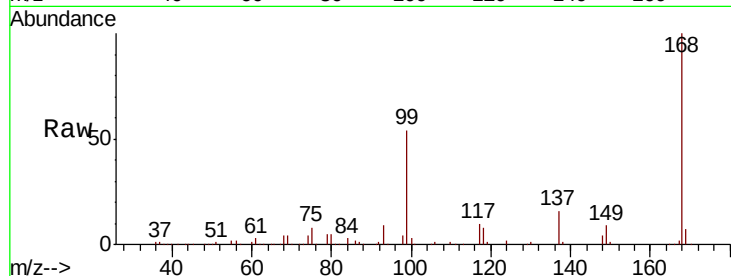
Z1-TB04-190530

Tot Ion:168 Resp: 176918

Ion Ratio Lower Upper

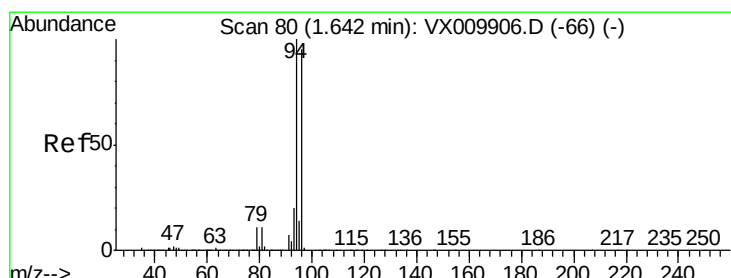
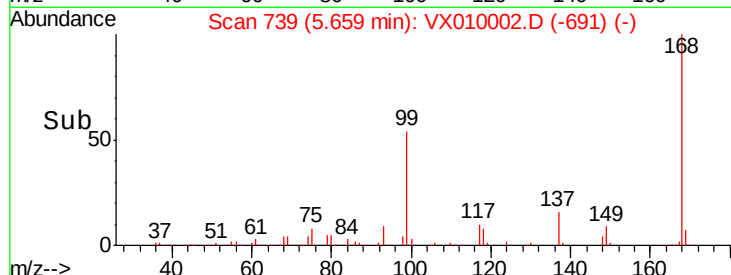
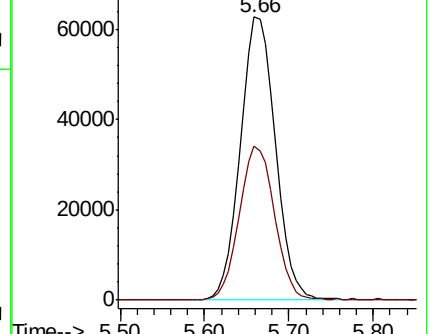
168 100

99 54.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.384 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX010002.D

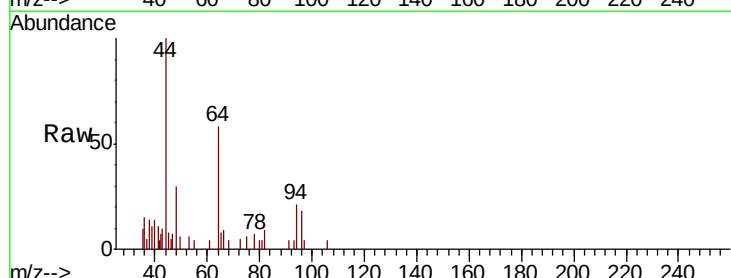
Acq: 31 May 2019 23:01

Tgt Ion: 94 Resp: 609

Ion Ratio Lower Upper

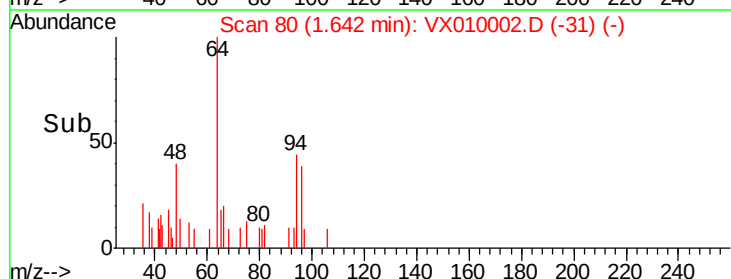
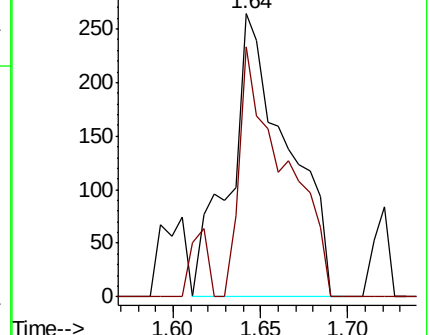
94 100

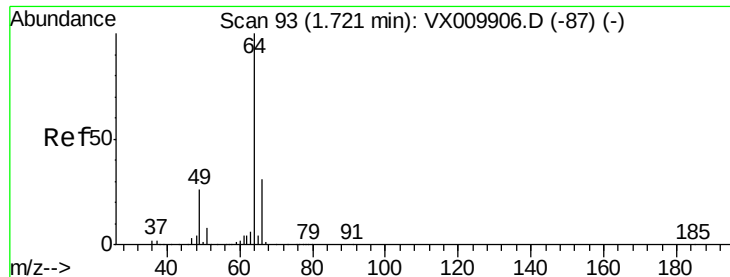
96 88.3 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.869 ug/l

RT: 1.65 min Scan# 81

Delta R.T. -0.07 min

Lab File: VX010002.D

Acq: 31 May 2019 23:01

Instrument :

MSVOA_X

ClientSampleId :

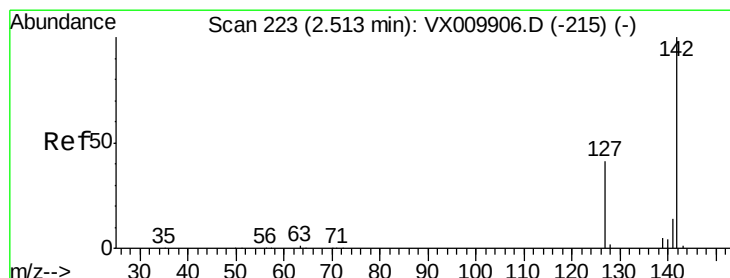
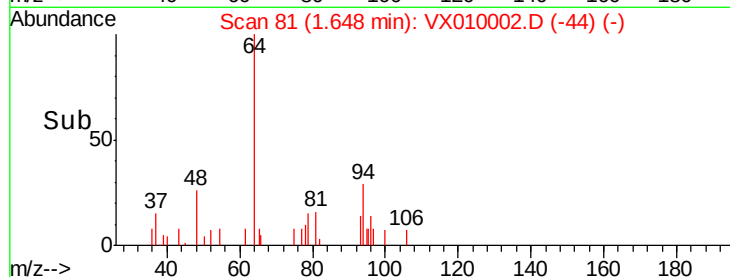
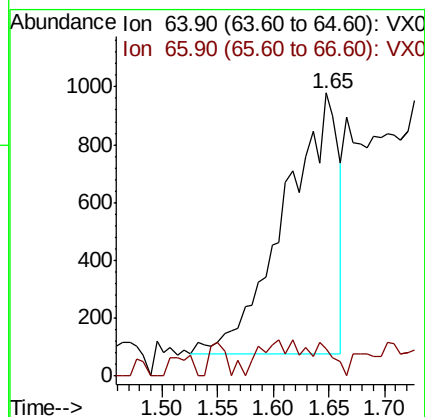
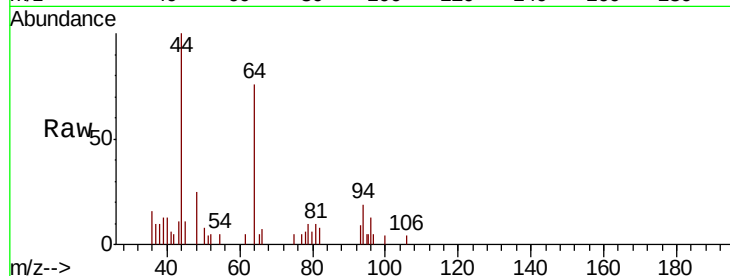
Z1-TB04-190530

Tot Ion: 64 Resp: 3015

Ion Ratio Lower Upper

64 100

66 4.7 25.1 37.7#



#10

Methyl Iodide

Concen: 4.870 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.00 min

Lab File: VX010002.D

Acq: 31 May 2019 23:01

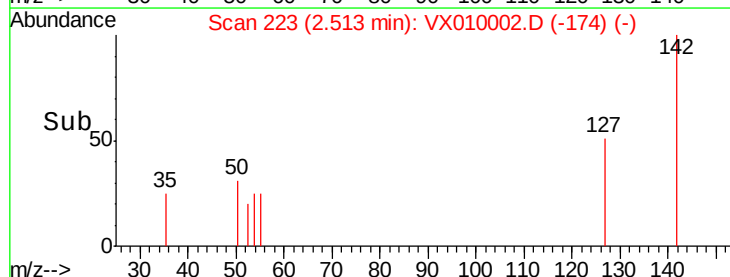
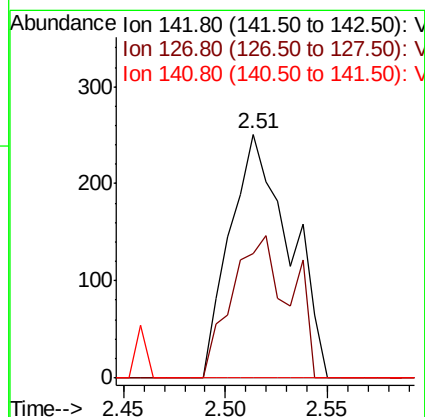
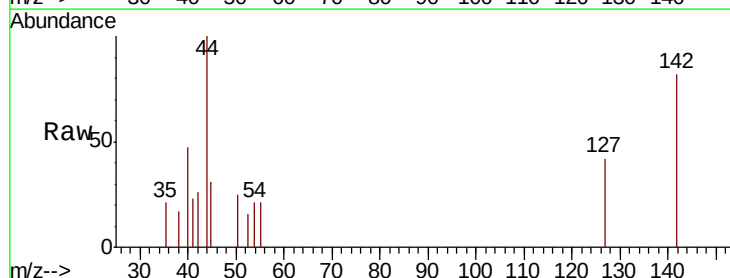
Tgt Ion: 142 Resp: 509

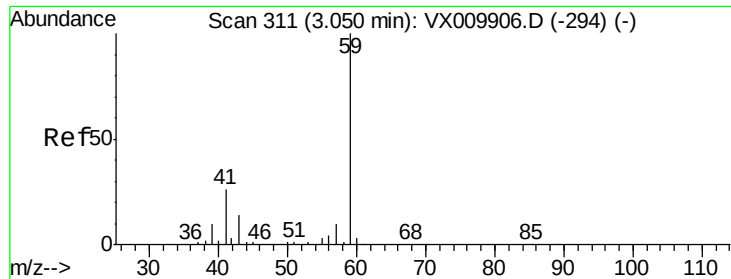
Ion Ratio Lower Upper

142 100

127 57.0 33.0 49.4#

141 0.0 11.4 17.0#

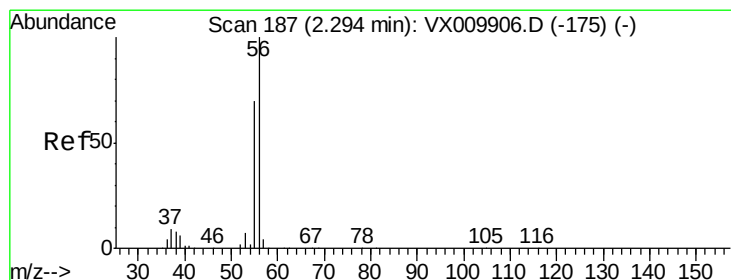
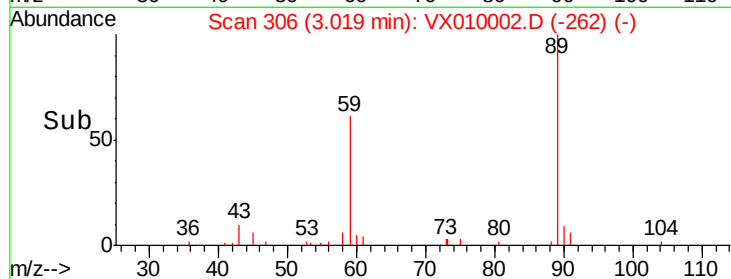
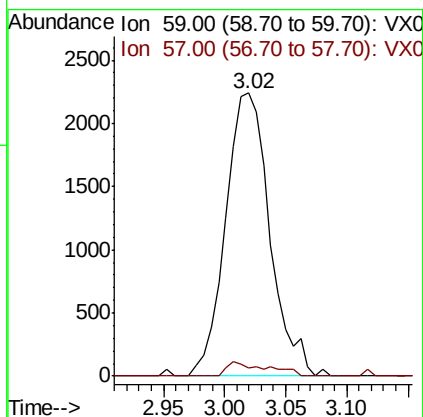
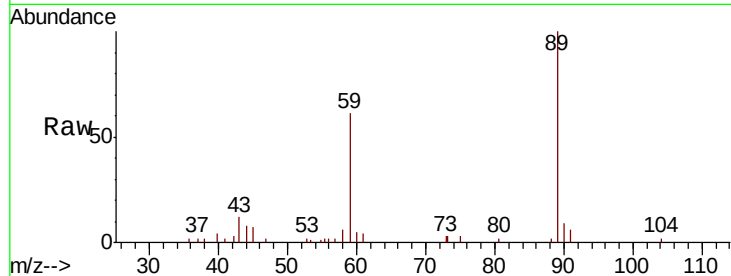




#11
Tert butyl alcohol
Concen: 9.149 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010002.D
Acq: 31 May 2019 23:01

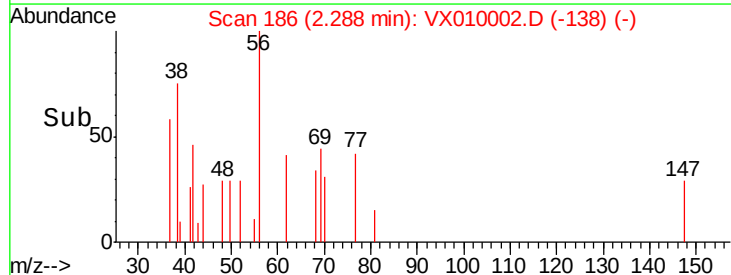
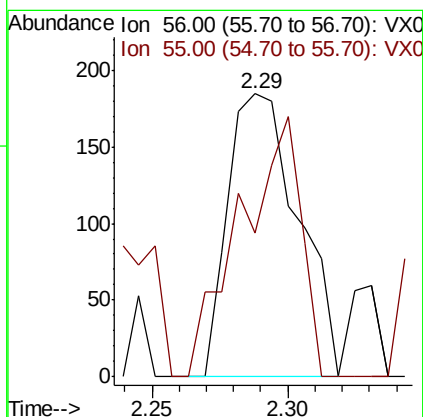
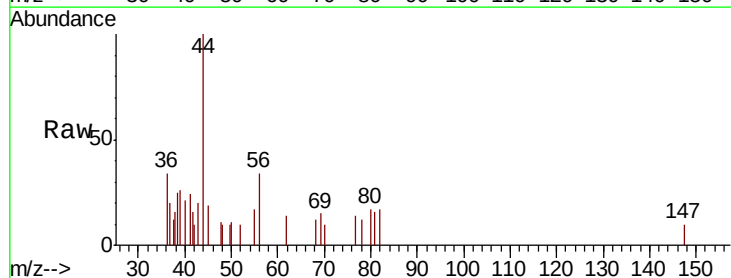
Instrument :
MSVOA_X
ClientSampleId :
Z1-TB04-190530

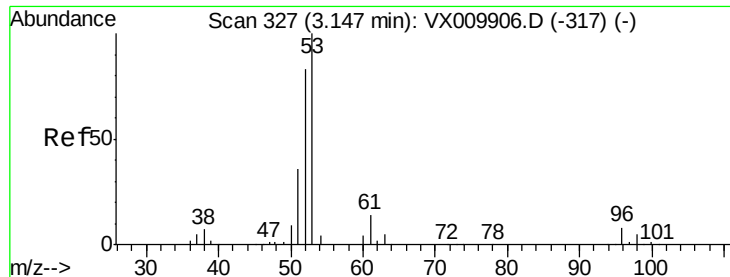
Tot Ion: 59 Resp: 5627
Ion Ratio Lower Upper
59 100
57 3.0 8.2 12.2#



#13
Acrolein
Concen: 21.792 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX010002.D
Acq: 31 May 2019 23:01

Tgt Ion: 56 Resp: 331
Ion Ratio Lower Upper
56 100
55 79.5 57.0 85.4





#15

Acrylonitrile

Concen: 0.298 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX010002.D

Acq: 31 May 2019 23:01

Instrument :

MSVOA_X

ClientSampleId :

Z1-TB04-190530

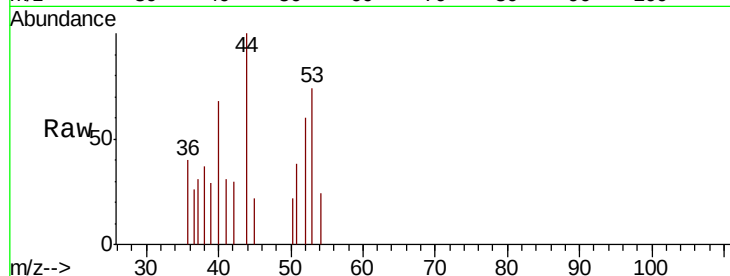
Tot Ion: 53 Resp: 441

Ion Ratio Lower Upper

53 100

52 56.5 66.7 100.1#

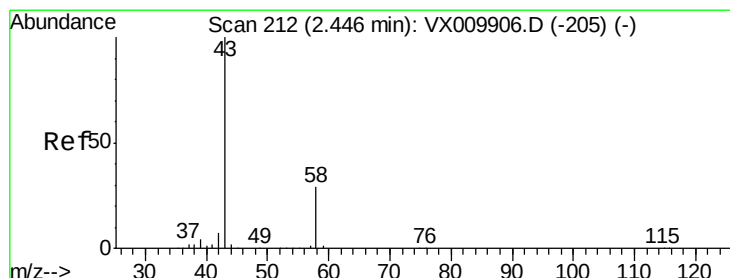
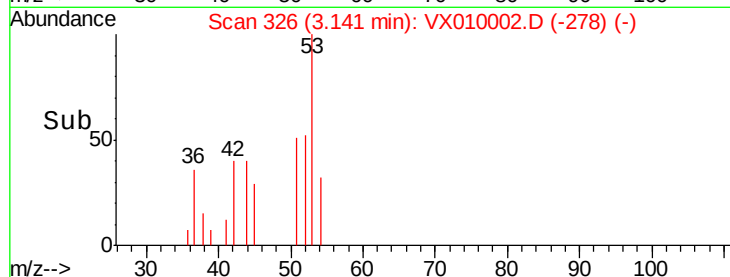
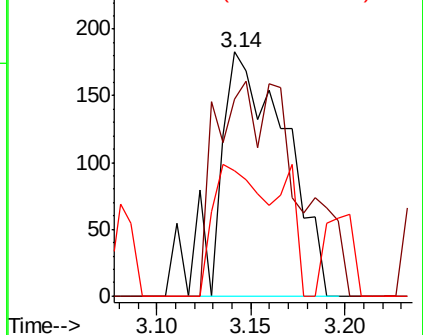
51 55.1 28.8 43.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.427 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010002.D

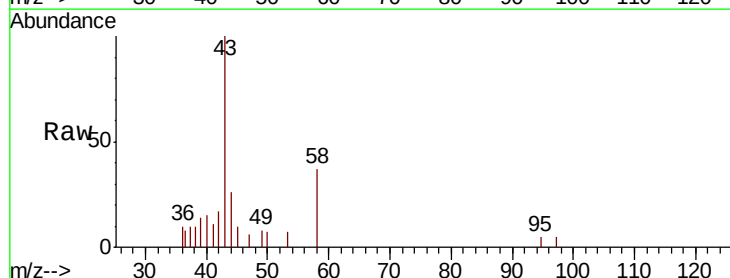
Acq: 31 May 2019 23:01

Tgt Ion: 43 Resp: 2060

Ion Ratio Lower Upper

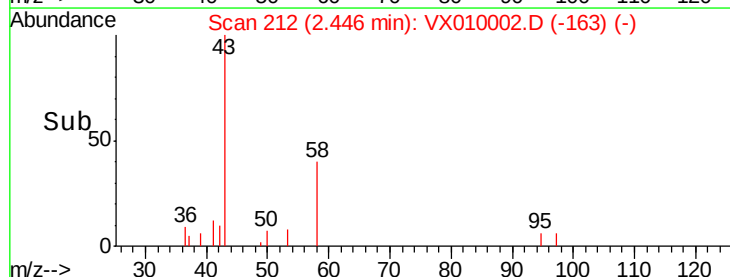
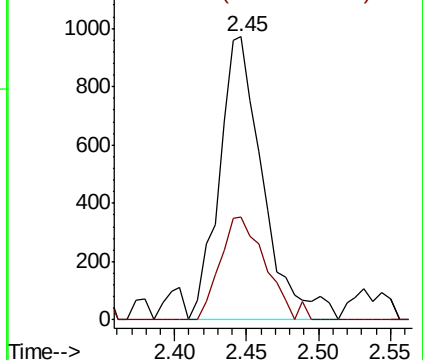
43 100

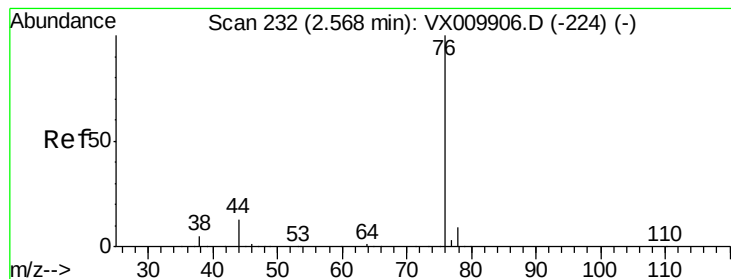
58 36.6 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.695 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX010002.D

Acq: 31 May 2019 23:01

Instrument :

MSVOA_X

ClientSampleId :

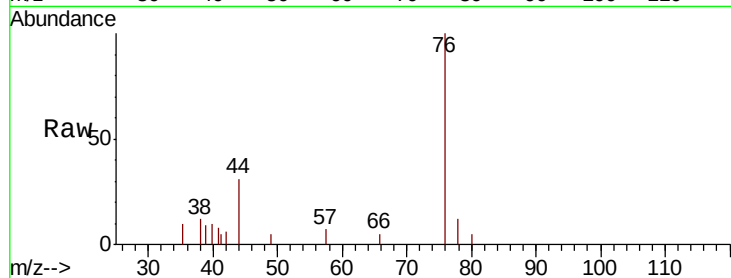
Z1-TB04-190530

Tot Ion: 76 Resp: 1696

Ion Ratio Lower Upper

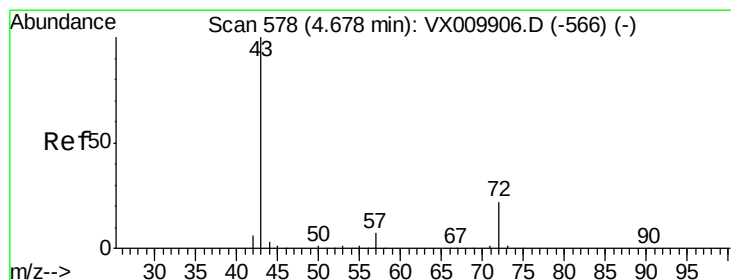
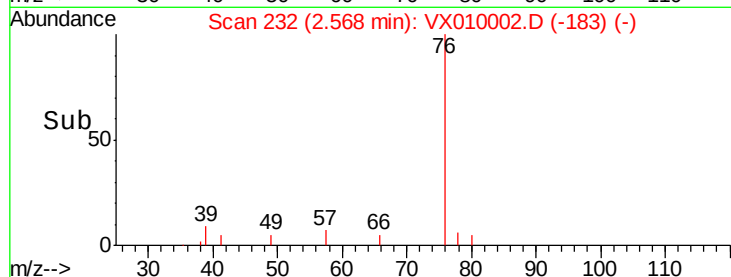
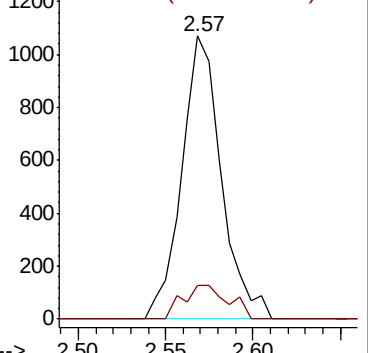
76 100

78 11.9 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#25

2-Butanone

Concen: 0.349 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.01 min

Lab File: VX010002.D

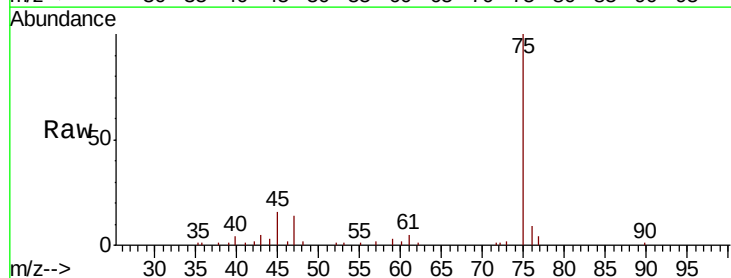
Acq: 31 May 2019 23:01

Tgt Ion: 43 Resp: 786

Ion Ratio Lower Upper

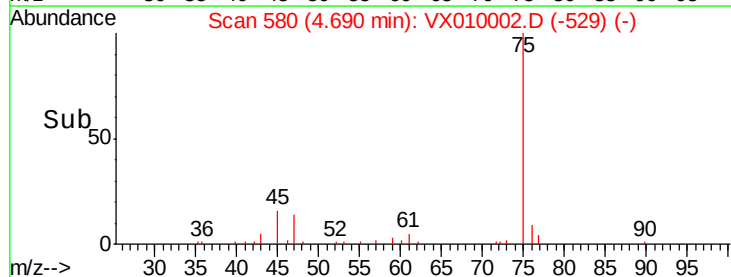
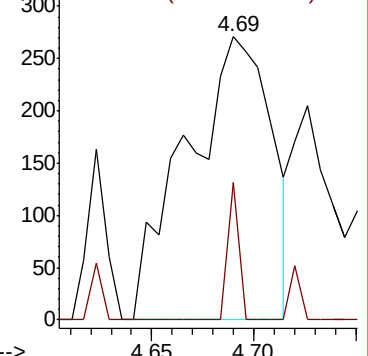
43 100

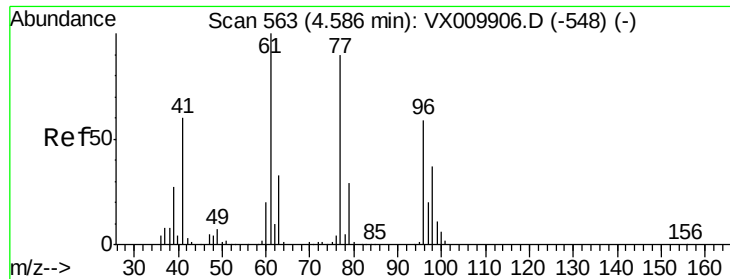
72 48.7 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#26

2,2-Dichloropropane

Concen: 0.260 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.10 min

Lab File: VX010002.D

Acq: 31 May 2019 23:01

Instrument :

MSVOA_X

ClientSampleId :

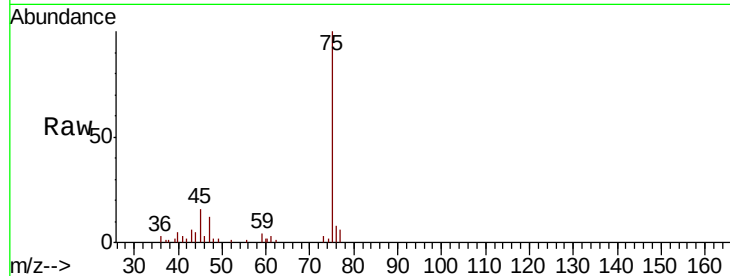
Z1-TB04-190530

Tot Ion: 77 Resp: 789

Ion Ratio Lower Upper

77 100

97 2.7 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

250

200

150

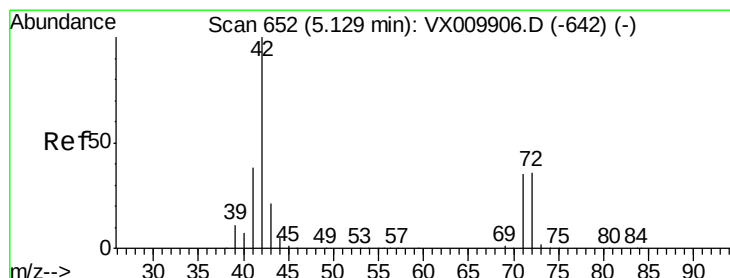
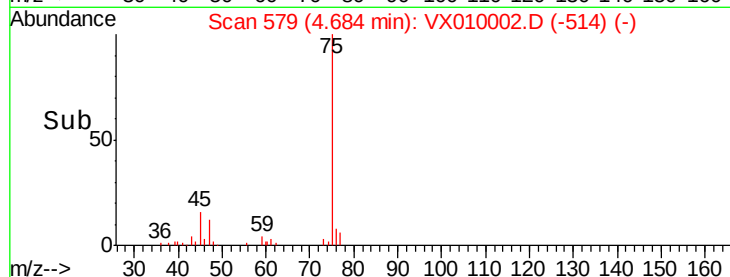
100

50

0

4.60 4.65 4.70 4.75

Time-->



#29

Tetrahydrofuran

Concen: 0.360 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX010002.D

Acq: 31 May 2019 23:01

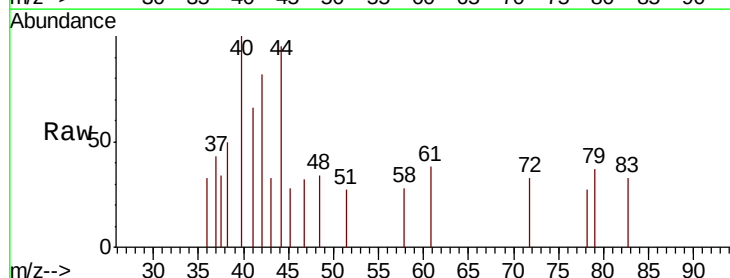
Tgt Ion: 42 Resp: 520

Ion Ratio Lower Upper

42 100

72 9.6 29.2 43.8#

71 12.5 27.6 41.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

200

150

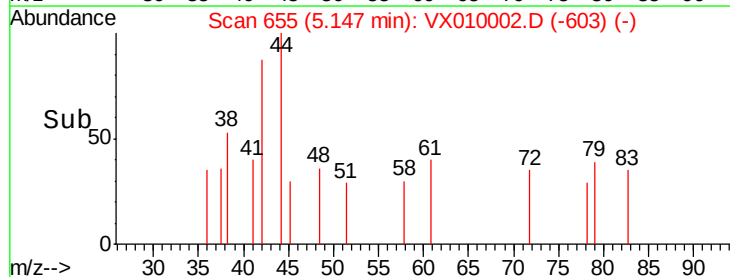
100

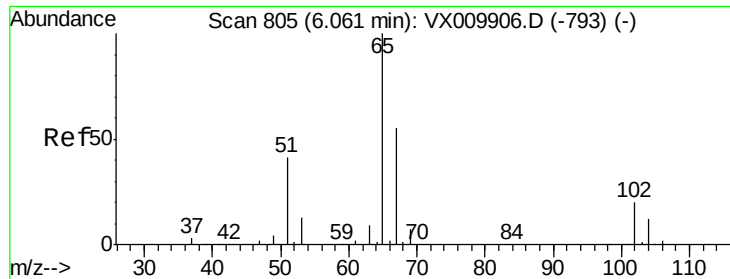
50

0

5.05 5.10 5.15 5.20

Time-->

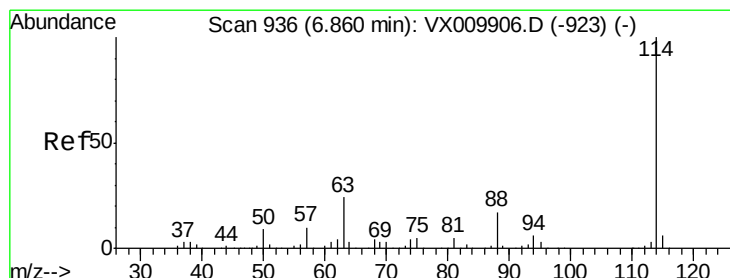
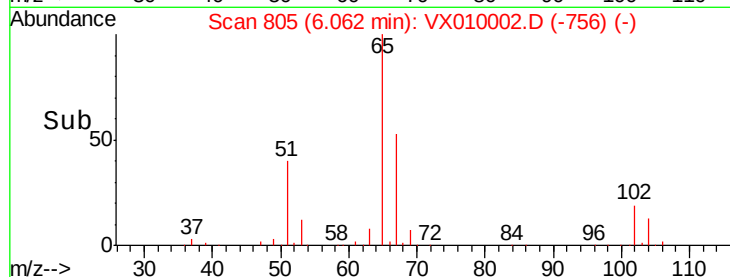
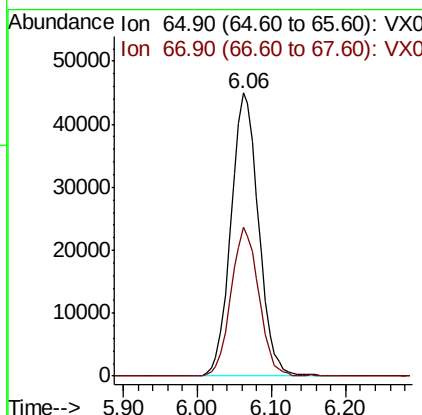
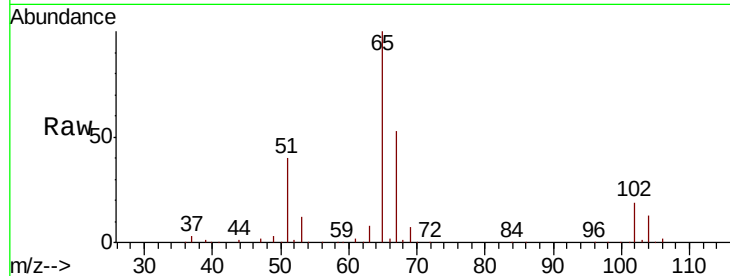




#33
 1,2-Dichloroethane-d4
 Concen: 46.944 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010002.D
 Acq: 31 May 2019 23:01

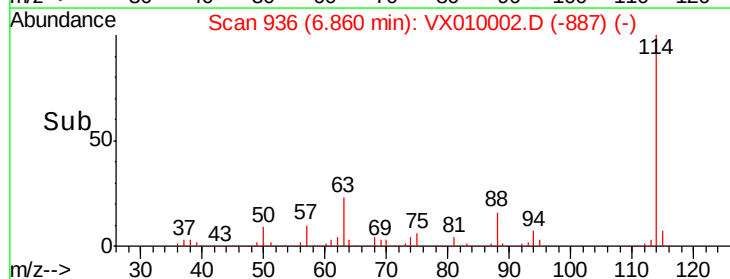
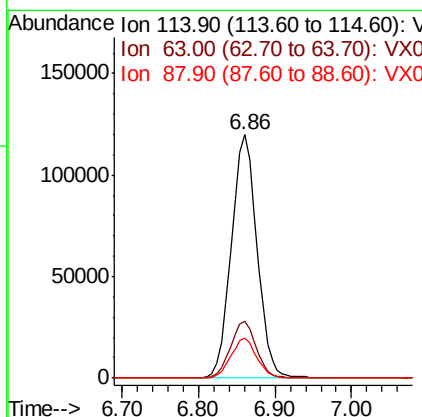
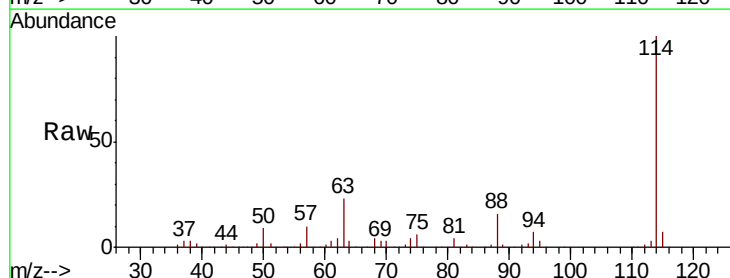
Instrument :
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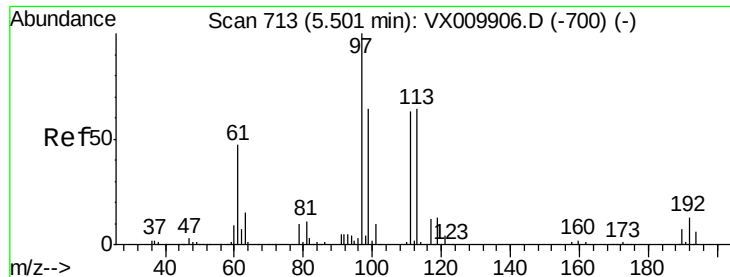
Tot Ion: 65 Resp: 117319
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010002.D
 Acq: 31 May 2019 23:01

Tgt Ion: 114 Resp: 279464
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 47.4
 88 16.4 0.0 33.0

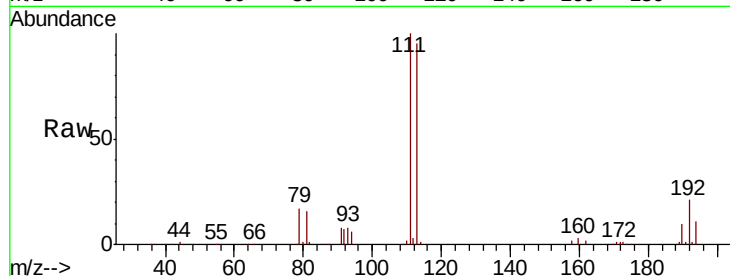




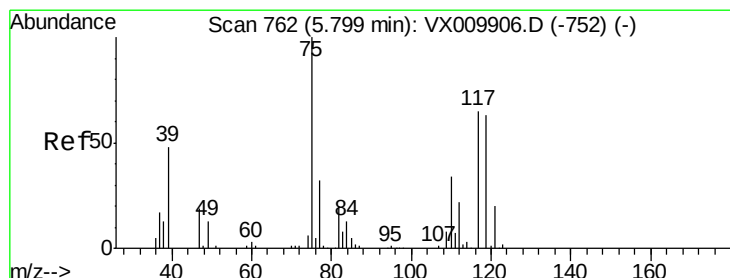
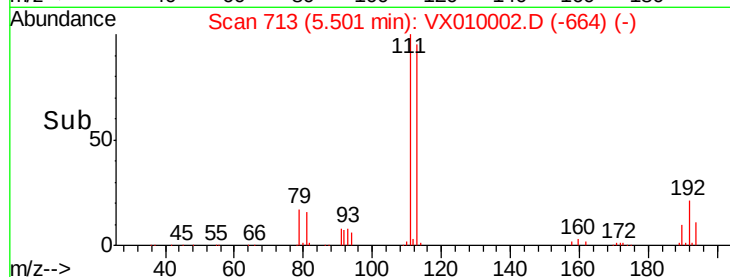
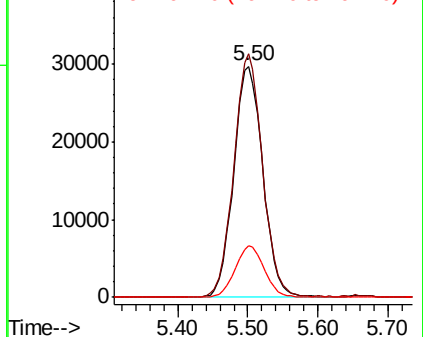
#35
 Dibromofluoromethane
 Concen: 49.037 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010002.D
 Acq: 31 May 2019 23:01

Instrument :
 MSVOA_X
 ClientSampleId :
 Z1-TB04-190530

Tot Ion:113 Resp: 86158
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.2 123.2
 192 22.2 17.1 25.7

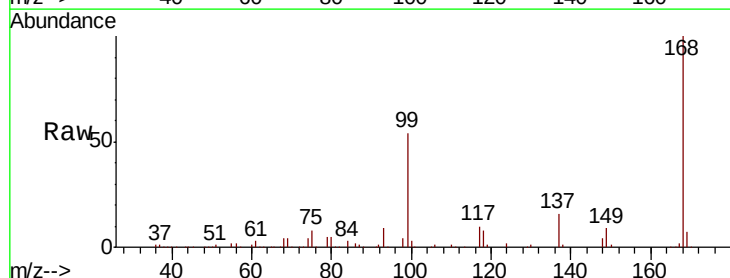


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

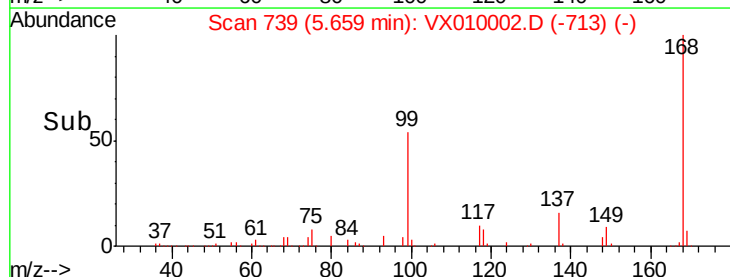
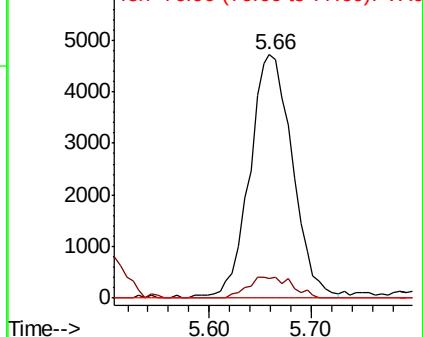


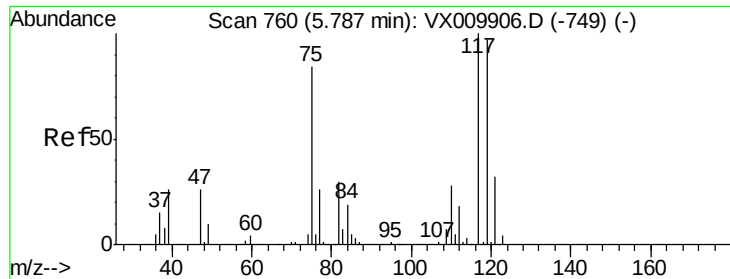
#36
 1,1-Dichloropropene
 Concen: 4.831 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010002.D
 Acq: 31 May 2019 23:01

Tgt Ion: 75 Resp: 13697
 Ion Ratio Lower Upper
 75 100
 110 9.2 16.7 50.1#
 77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.774 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010002.D

Acq: 31 May 2019 23:01

Instrument :

MSVOA_X

ClientSampleId :

Z1-TB04-190530

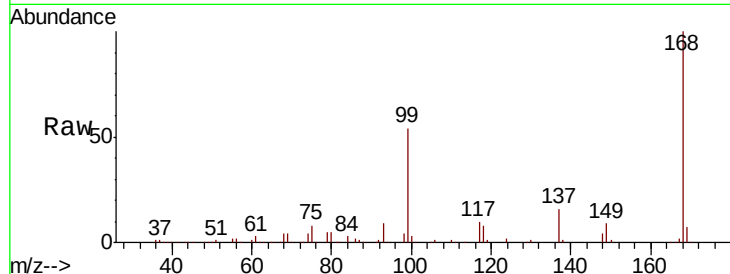
Tot Ion:117 Resp: 16598

Ion Ratio Lower Upper

117 100

119 5.1 77.3 115.9#

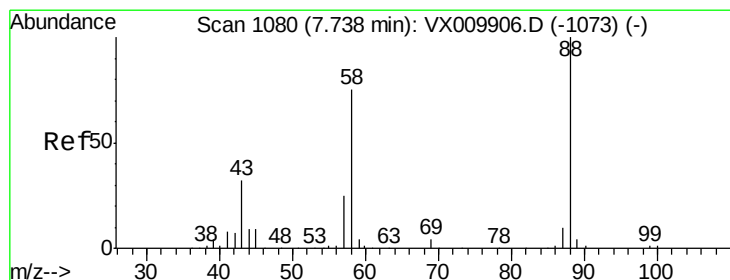
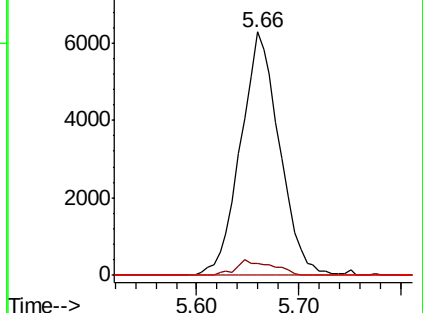
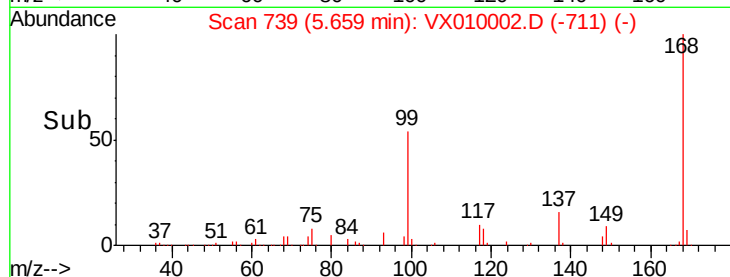
121 0.0 25.4 38.0#



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



#49

1,4-Dioxane

Concen: 0.392 ug/l

RT: 7.56 min Scan# 1050

Delta R.T. -0.18 min

Lab File: VX010002.D

Acq: 31 May 2019 23:01

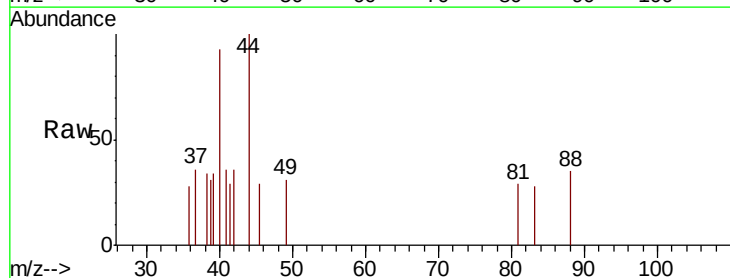
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 213.0 30.2 45.4#

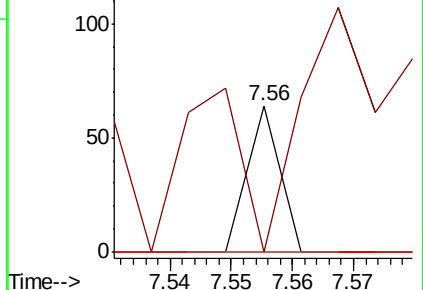
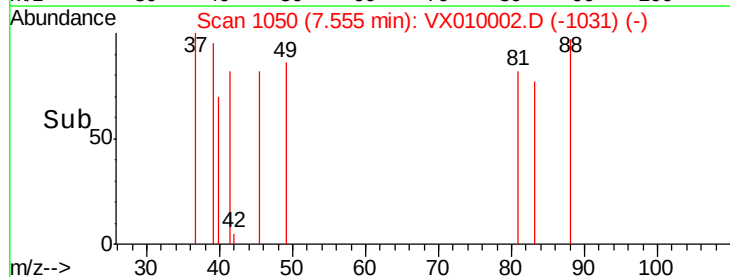
58 0.0 64.0 96.0#

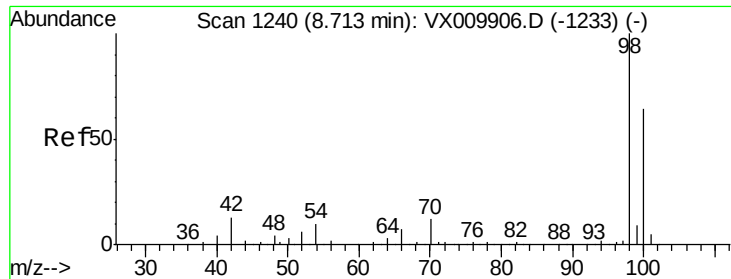


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.003 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010002.D

Acq: 31 May 2019 23:01

Instrument :

MSVOA_X

ClientSampleId :

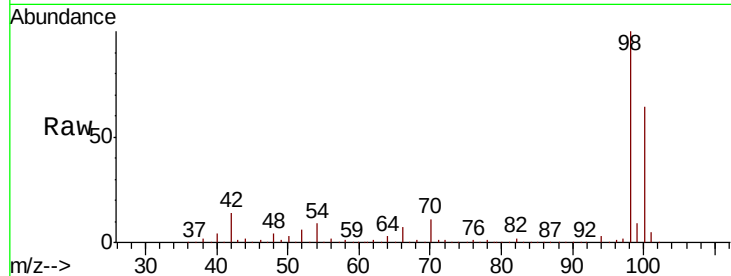
Z1-TB04-190530

Tot Ion: 98 Resp: 356763

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

250000

200000

150000

100000

50000

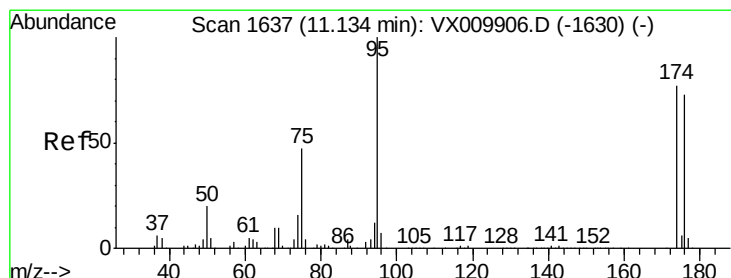
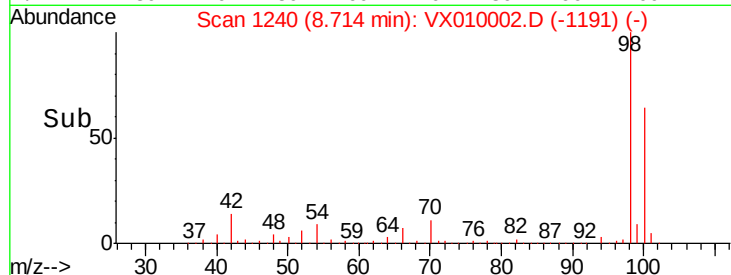
0

8.60

8.71

8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 47.602 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010002.D

Acq: 31 May 2019 23:01

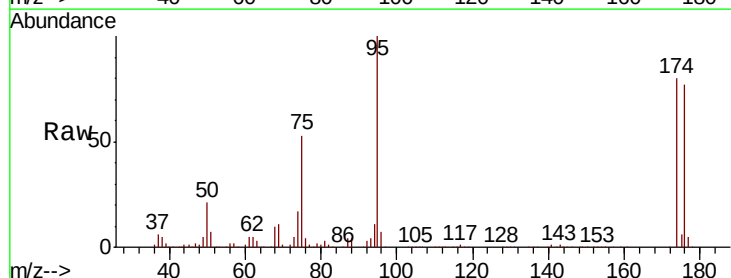
Tgt Ion: 95 Resp: 121990

Ion Ratio Lower Upper

95 100

174 83.2 0.0 160.4

176 81.1 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

100000

50000

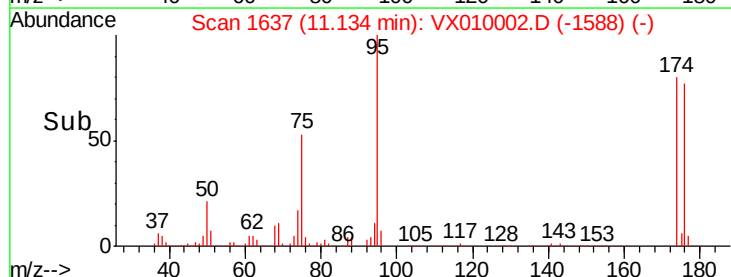
0

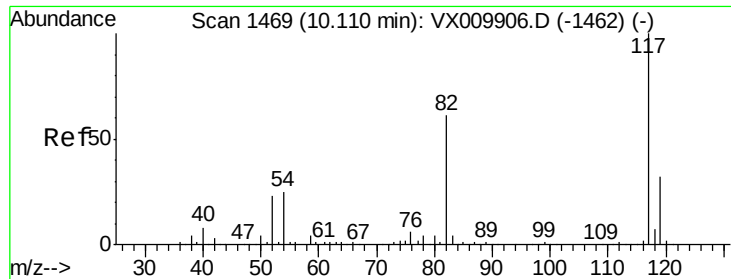
11.10

11.13

11.20

Time-->

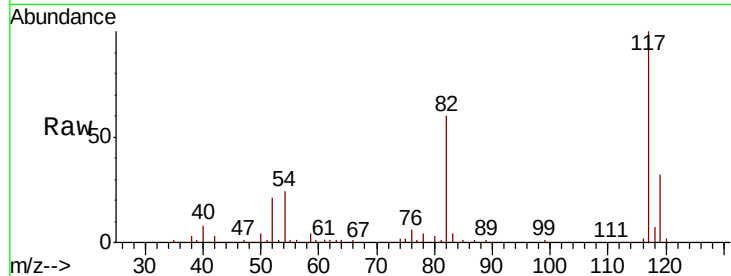




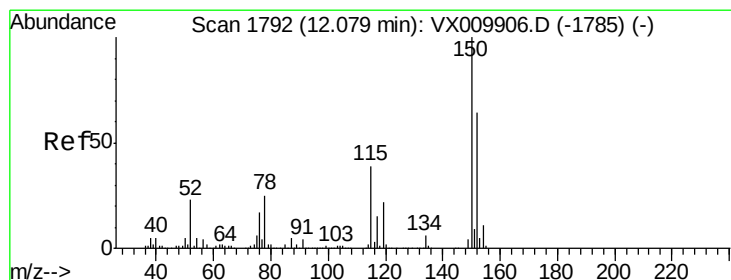
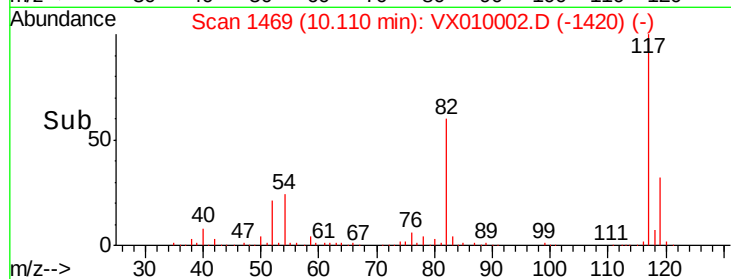
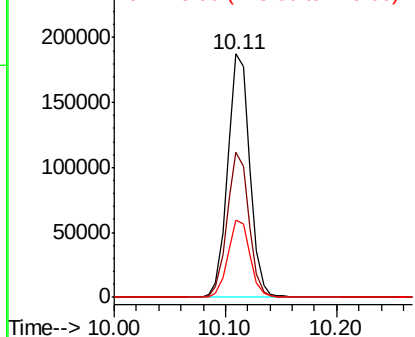
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010002.D
Acq: 31 May 2019 23:01

Instrument :
MSVOA_X
ClientSampleId :
Z1-TB04-190530

Tot Ion:117 Resp: 256653
Ion Ratio Lower Upper
117 100
82 59.5 49.2 73.8
119 31.9 25.2 37.8

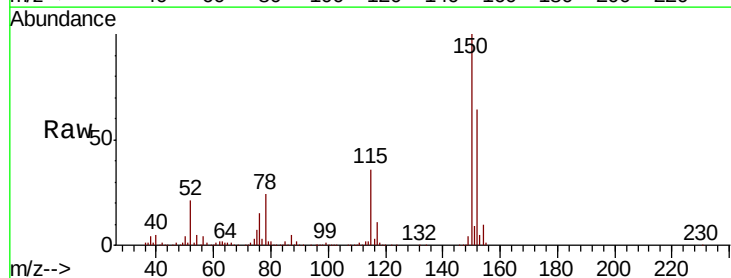


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

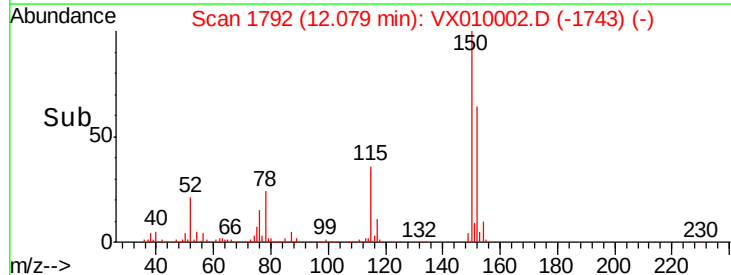
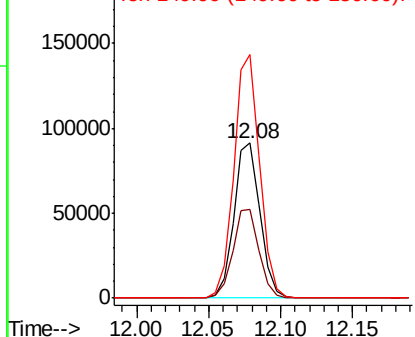


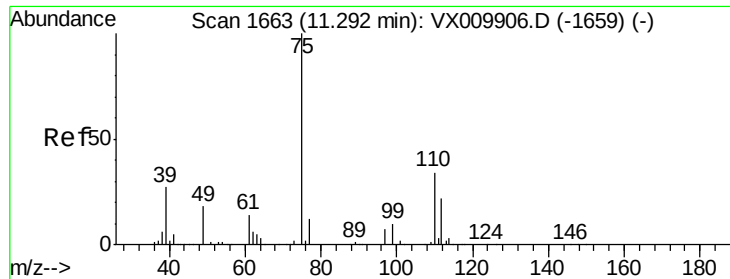
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010002.D
Acq: 31 May 2019 23:01

Tgt Ion:152 Resp: 114973
Ion Ratio Lower Upper
152 100
115 57.6 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: VX010002.D

Acq: 31 May 2019 23:01

Instrument :

MSVOA_X

ClientSampleId :

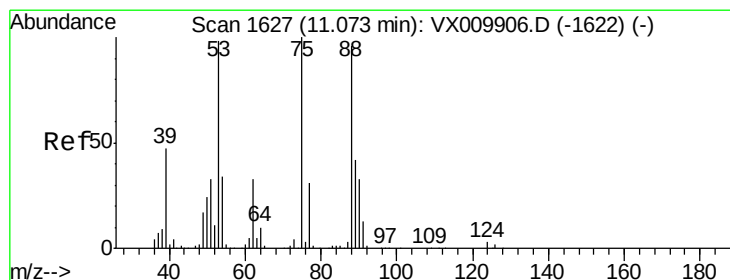
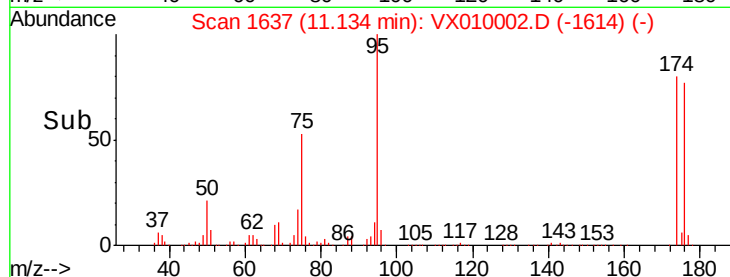
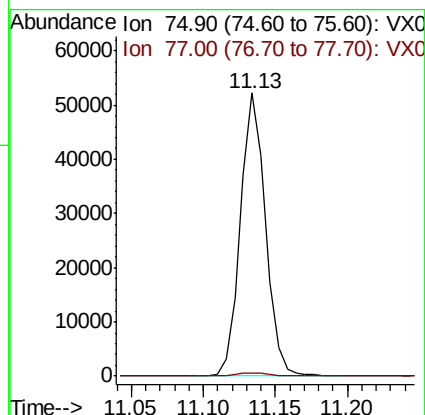
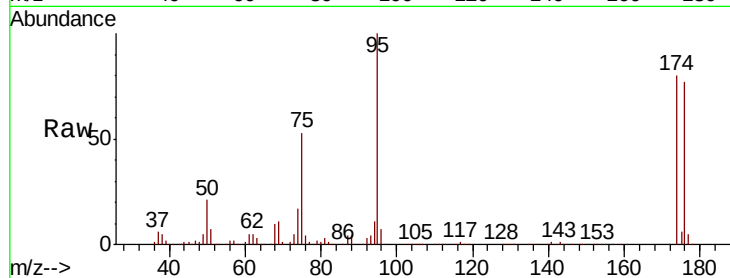
Z1-TB04-190530

Tot Ion: 75 Resp: 63319

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 56.981 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010002.D

Acq: 31 May 2019 23:01

Tgt Ion: 75 Resp: 63319

Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

89 0.0 34.2 51.4#

