

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050719\
 Data File : VX009372.D
 Acq On : 07 May 2019 12:25
 Operator : JC/SP
 Sample : K2628-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 001M-WILLETS-PT-BLVD(MAY)

Quant Time: May 08 02:12:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	31066	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	174348	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	152131	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	74758	29.01	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.70%
60) 4-Bromofluorobenzene	11.13	95	72770	28.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.83%
63) Toluene-d8	8.71	98	217888	30.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.70%

Target Compounds

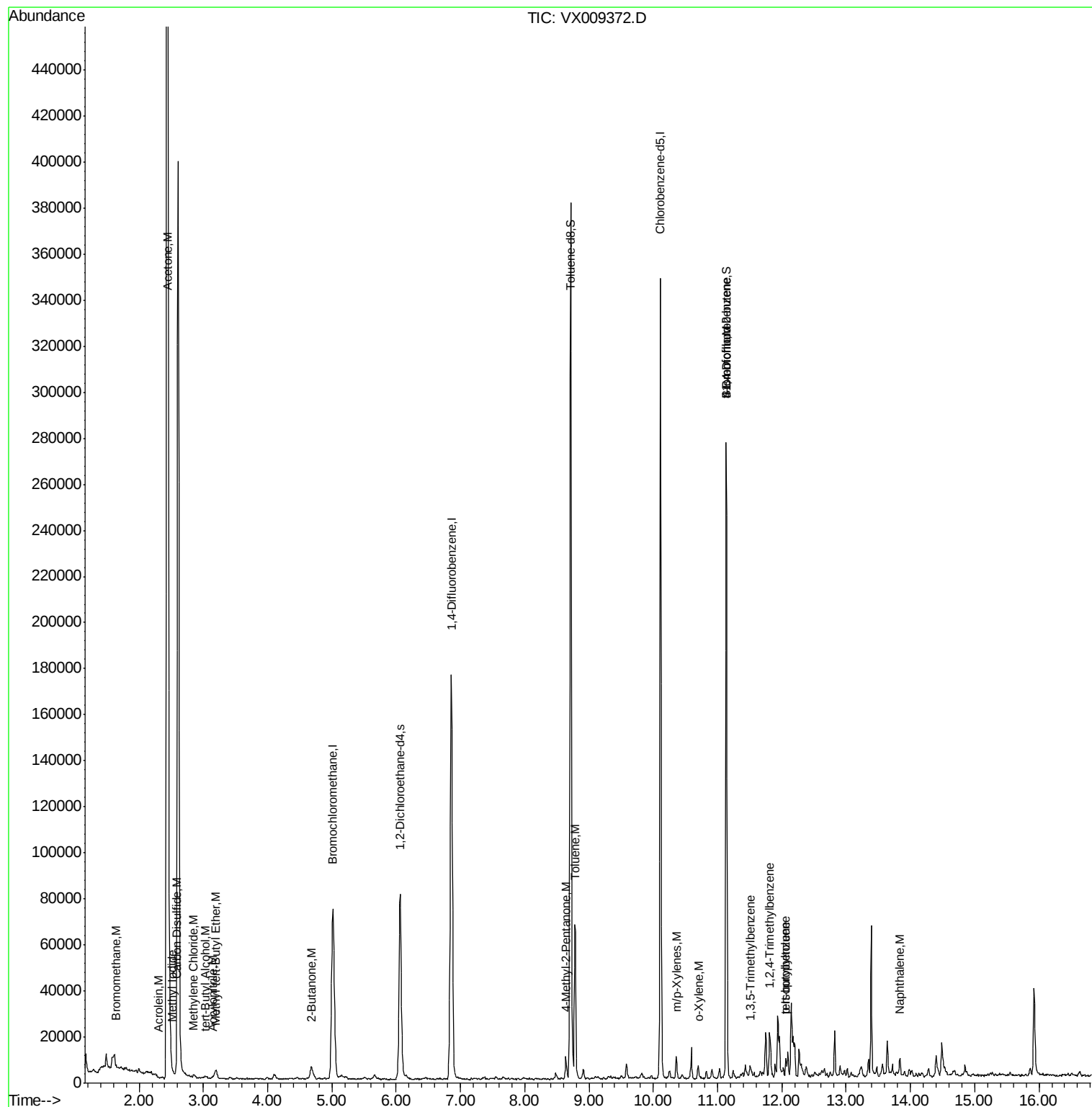
					Ovalue
5) Bromomethane	1.65	94	300	0.214 ug/l #	49
11) Methyl Iodide	2.52	142	451	0.244 ug/l #	88
13) Acrolein	2.29	56	131	0.298 ug/l	94
14) Acrylonitrile	3.14	53	388	0.279 ug/l	82
15) Acetone	2.44	58	395746	992.361 ug/l	97
16) Carbon Disulfide	2.57	76	1842	0.401 ug/l	98
18) Methylene Chloride	2.85	84	495	0.241 ug/l #	53
23) tert-Butyl Alcohol	3.04	59	1219	2.076 ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	4119	0.619 ug/l #	76
30) 2-Butanone	4.68	43	8265	4.125 ug/l #	94
56) Bromoform	11.14	173	362	0.242 ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	6308	1.686 ug/l	98
62) Toluene	8.78	91	42922	5.280 ug/l	100
67) m/p-Xylenes	10.36	106	1994	0.603 ug/l	98
68) o-Xylene	10.69	106	1274	0.392 ug/l	93
76) 1,3,5-Trimethylbenzene	11.51	105	1697	0.229 ug/l	93
77) t-1,4-Dichloro-2-butene	11.13	75	37254	33.469 ug/l #	10
79) tert-butylbenzene	12.06	119	2591	0.362 ug/l	70
80) 1,2,4-Trimethylbenzene	11.80	105	5477	0.738 ug/l	82
82) p-Isopropyltoluene	12.06	119	2591	0.335 ug/l	94
91) Naphthalene	13.83	128	2367	0.261 ug/l	96

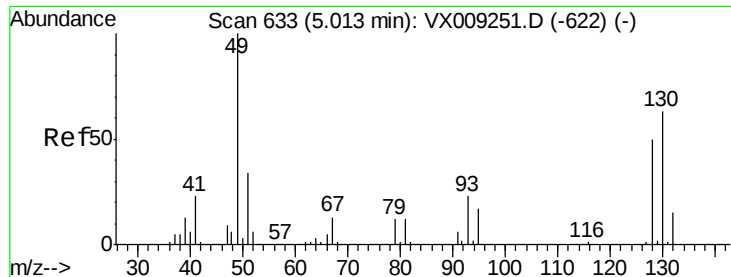
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 02 06:46:57 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 633

Delta R.T. -0.00 min

Lab File: VX009372.D

Acq: 07 May 2019 12:25

Instrument :

MSVOA_F

ClientSampleId :

001M-WILLETS-PT-BLVD(MAY)

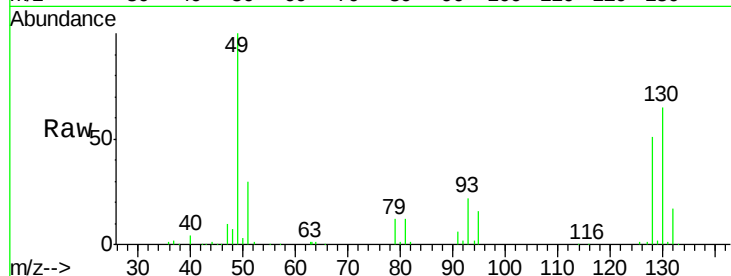
Tot Ion:128 Resp: 31066

Ion Ratio Lower Upper

128 100

49 192.1 0.0 515.0

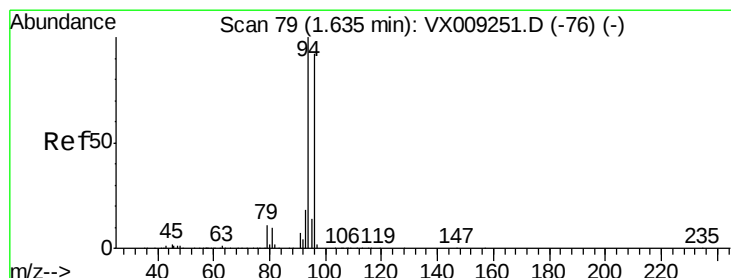
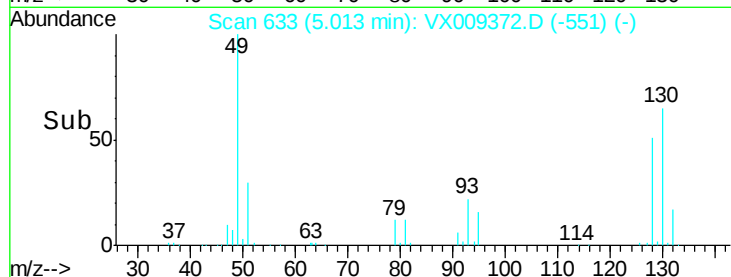
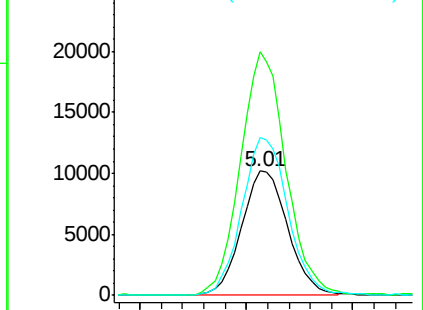
130 126.3 0.0 323.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.214 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009372.D

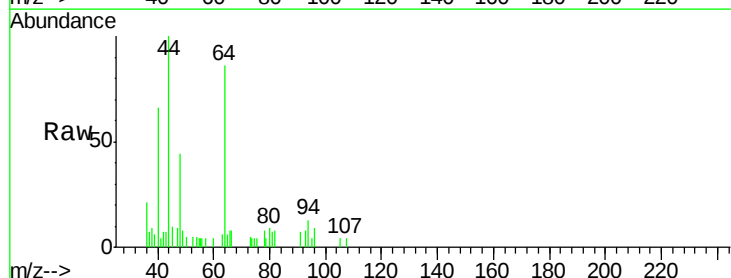
Acq: 07 May 2019 12:25

Tgt Ion: 94 Resp: 300

Ion Ratio Lower Upper

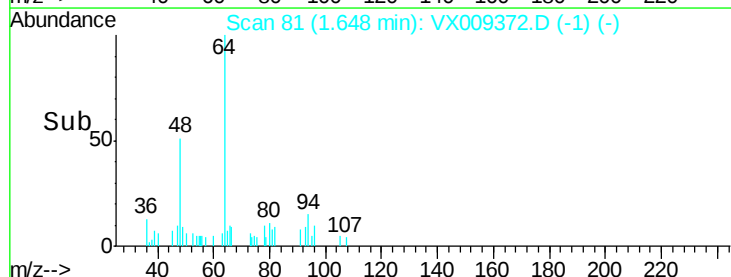
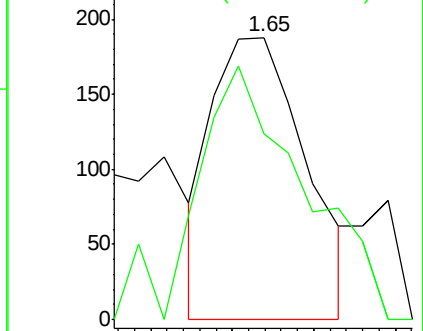
94 100

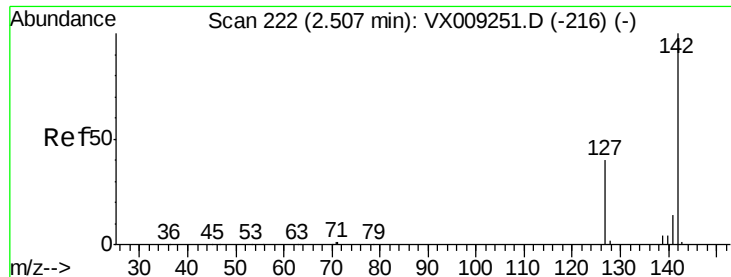
96 43.7 73.5 110.3#



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0

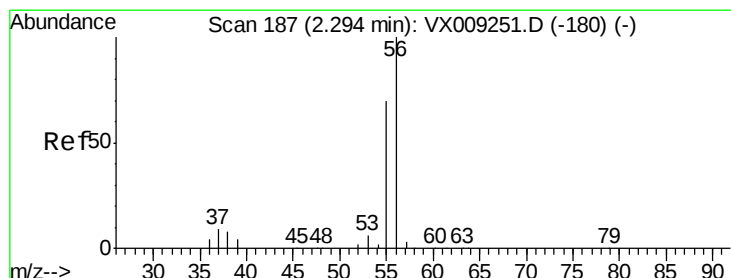
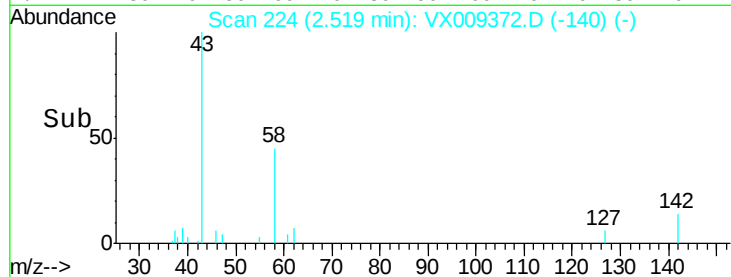
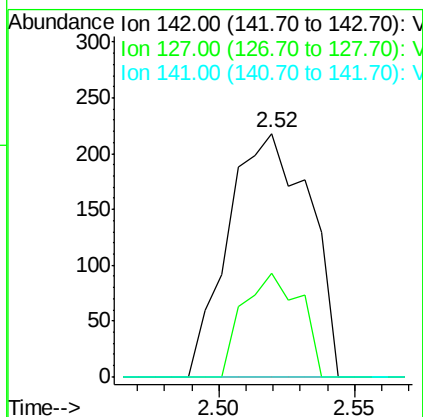
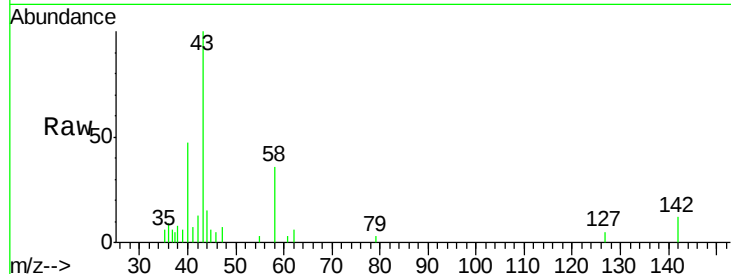




#11
Methvl Iodide
Concen: 0.244 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009372.D
Acq: 07 May 2019 12:25

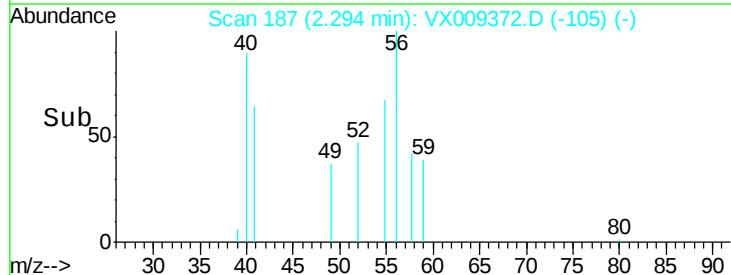
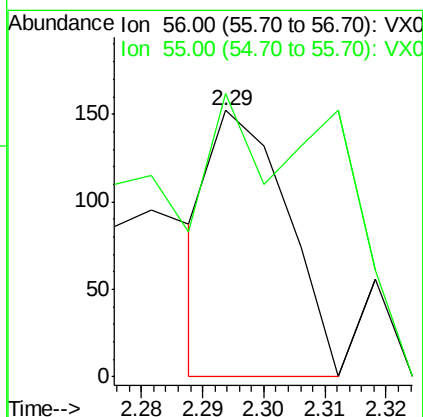
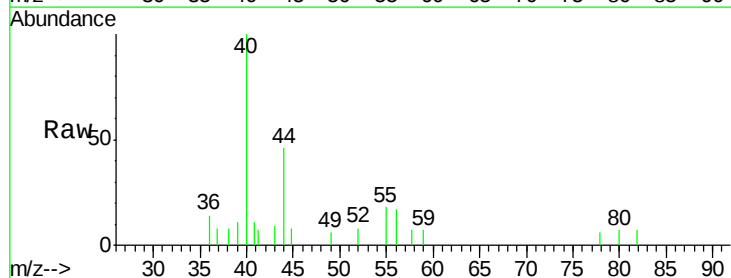
Instrument :
MSVOA_F
ClientSampleId :
001M-WILLETS-PT-BLVD(MAY)

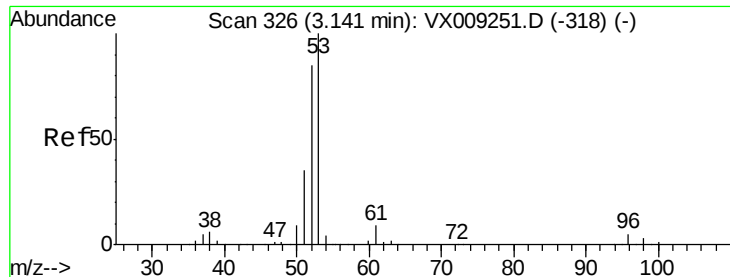
Tot Ion:142 Resp: 451
Ion Ratio Lower Upper
142 100
127 42.7 20.2 60.5
141 0.0 6.9 20.7#



#13
Acrolein
Concen: 0.298 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX009372.D
Acq: 07 May 2019 12:25

Tgt Ion: 56 Resp: 131
Ion Ratio Lower Upper
56 100
55 76.3 56.9 85.3





#14

Acrylonitrile

Concen: 0.279 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX009372.D

Acq: 07 May 2019 12:25

Instrument :

MSVOA_F

ClientSampleId :

001M-WILLETS-PT-BLVD(MAY)

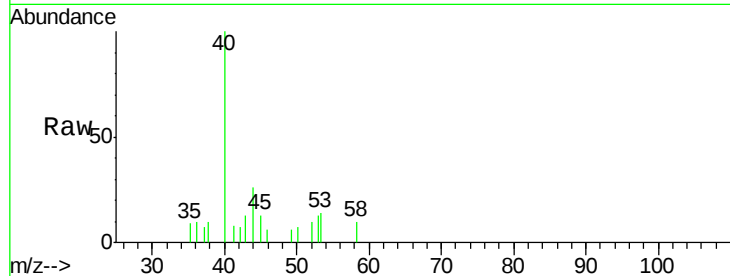
Tot Ion: 53 Resp: 388

Ion Ratio Lower Upper

53 100

52 61.9 41.5 124.5

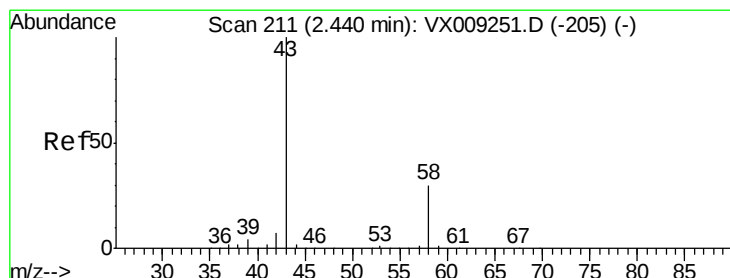
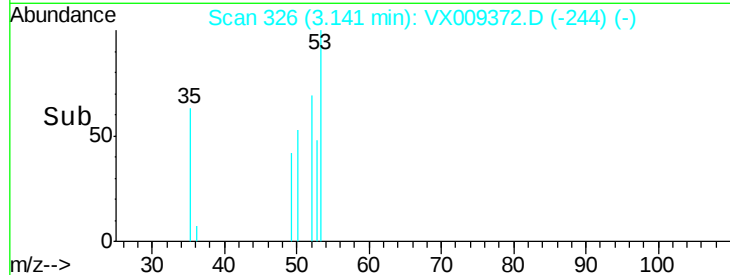
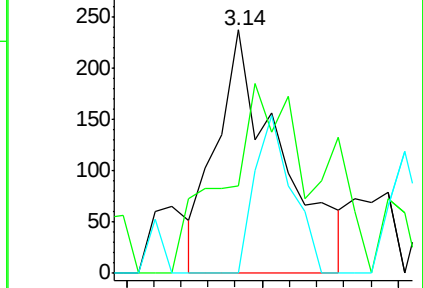
51 37.6 17.8 53.3



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



#15

Acetone

Concen: 992.361 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX009372.D

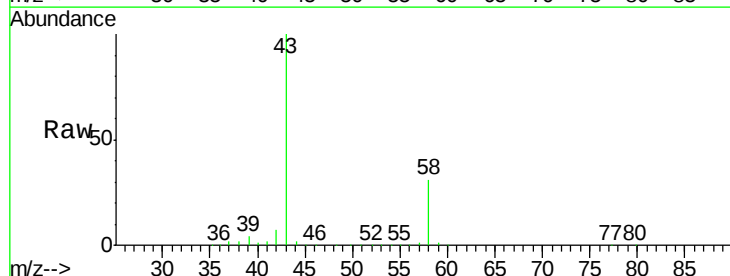
Acq: 07 May 2019 12:25

Tgt Ion: 58 Resp: 395746

Ion Ratio Lower Upper

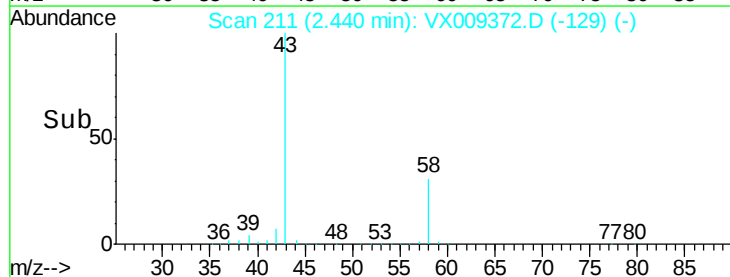
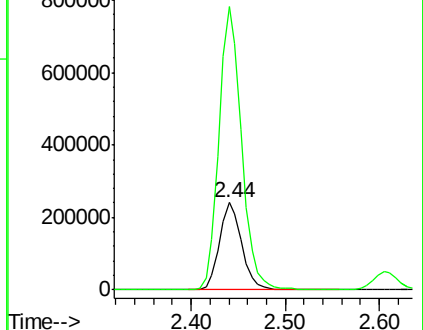
58 100

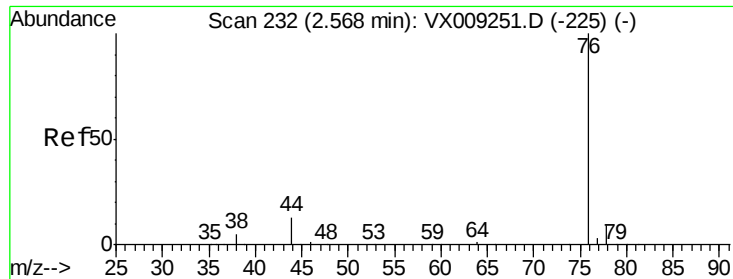
43 324.6 264.0 396.0



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

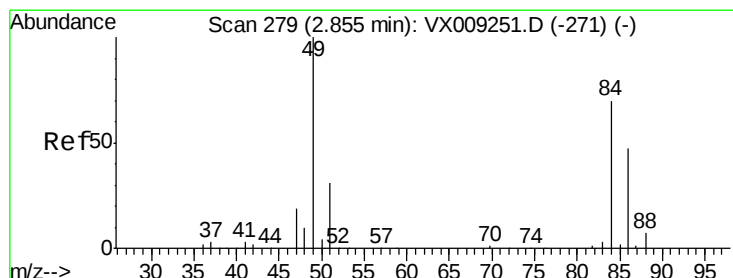
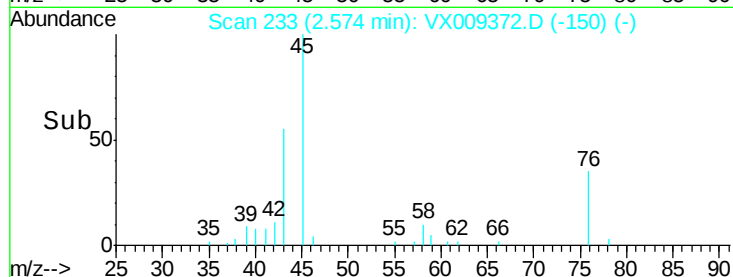
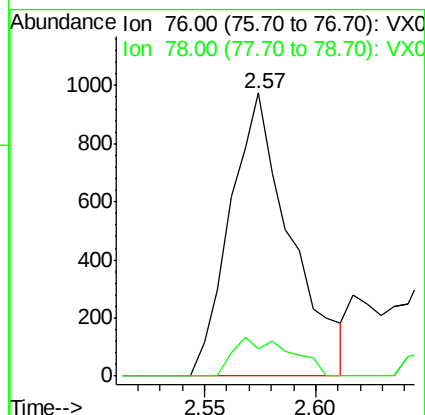
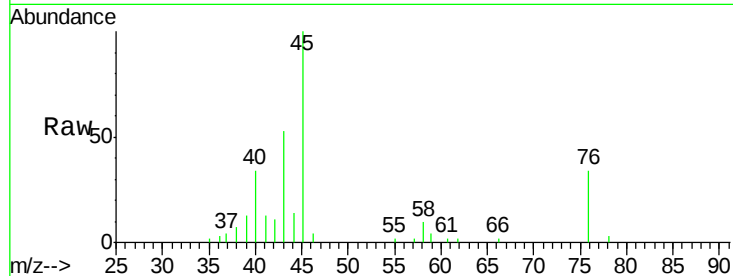




#16
Carbon Disulfide
Concen: 0.401 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX009372.D
Acq: 07 May 2019 12:25

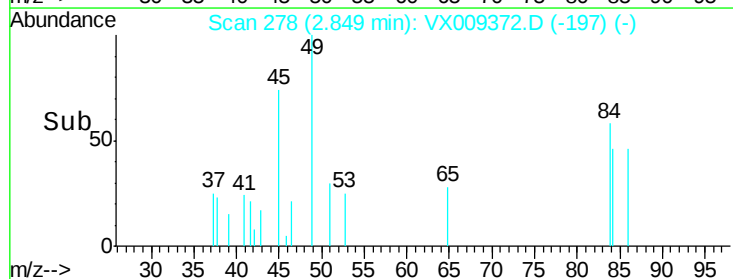
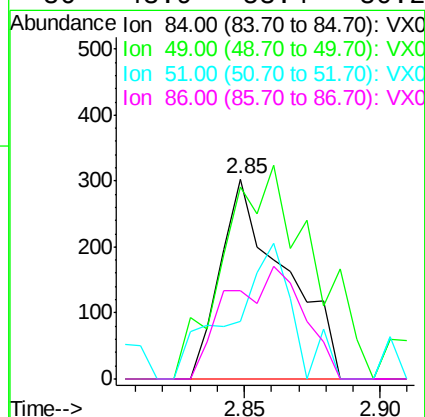
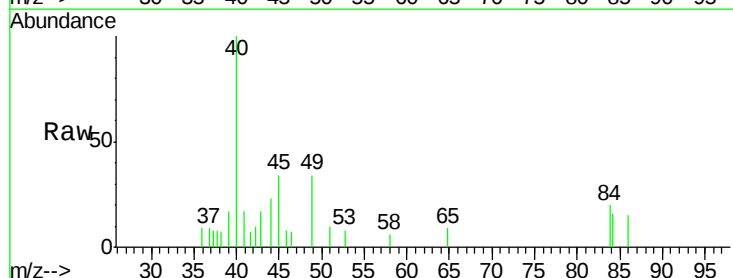
Instrument :
MSVOA_F
ClientSampleId :
001M-WILLETS-PT-BLVD(MAY)

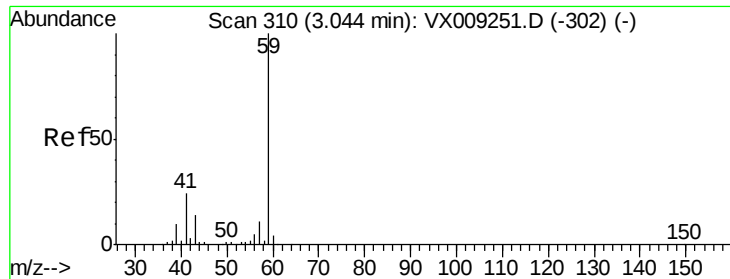
Tot Ion: 76 Resp: 1842
Ion Ratio Lower Upper
76 100
78 9.9 7.4 11.2



#18
Methylene Chloride
Concen: 0.241 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX009372.D
Acq: 07 May 2019 12:25

Tgt Ion: 84 Resp: 495
Ion Ratio Lower Upper
84 100
49 65.0 114.6 171.8#
51 29.0 35.5 53.3#
86 43.9 53.4 80.2#



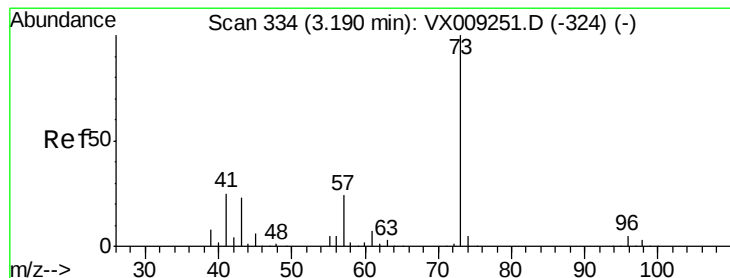
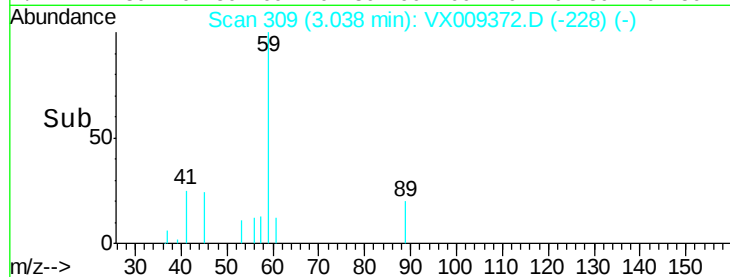
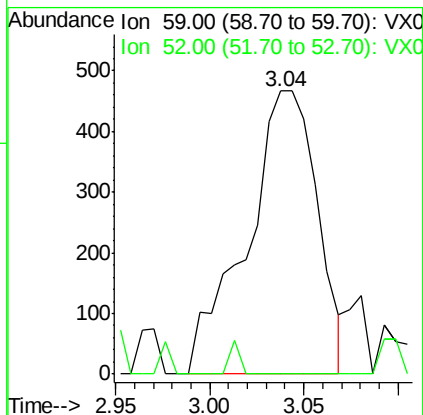
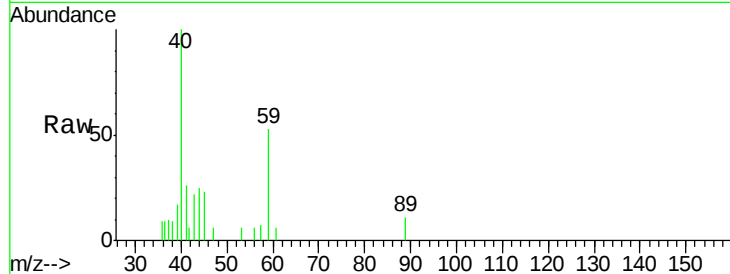


#23

tert-Butyl Alcohol
 Concen: 2.076 ug/l
 RT: 3.04 min Scan# 309
 Delta R.T. -0.01 min
 Lab File: VX009372.D
 Acq: 07 May 2019 12:25

Instrument :
 MSVOA_F
 ClientSampleId :
 001M-WILLETS-PT-BLVD(MAY)

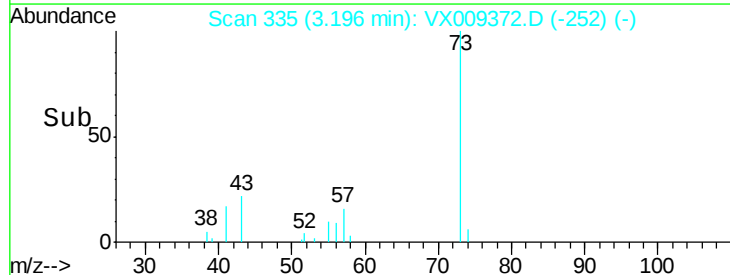
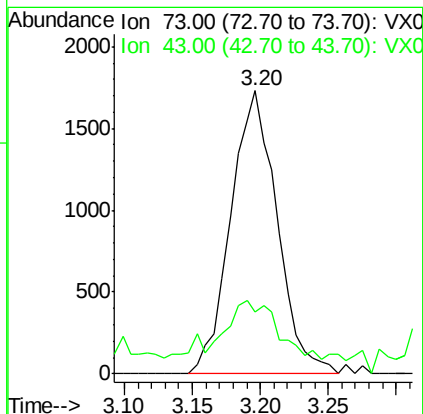
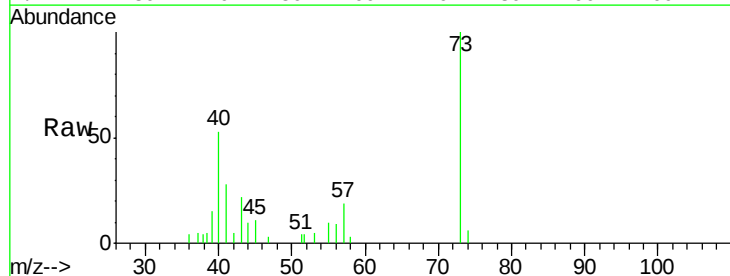
Tot Ion: 59 Resp: 1219
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.2 0.2#

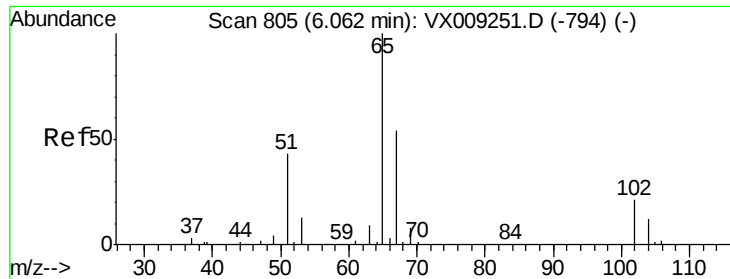


#24

Methyl tert-Butyl Ether
 Concen: 0.619 ug/l
 RT: 3.20 min Scan# 335
 Delta R.T. 0.01 min
 Lab File: VX009372.D
 Acq: 07 May 2019 12:25

Tgt Ion: 73 Resp: 4119
 Ion Ratio Lower Upper
 73 100
 43 10.6 17.6 26.4#





#27

1,2-Dichloroethane-d4

Concen: 29.009 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009372.D

Acq: 07 May 2019 12:25

Instrument :

MSVOA_F

ClientSampleId :

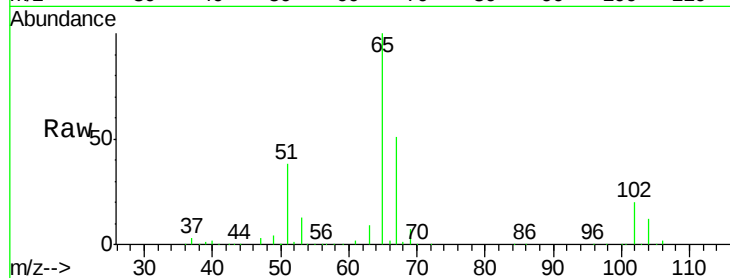
001M-WILLETS-PT-BLVD(MAY)

Tot Ion: 65 Resp: 74758

Ion Ratio Lower Upper

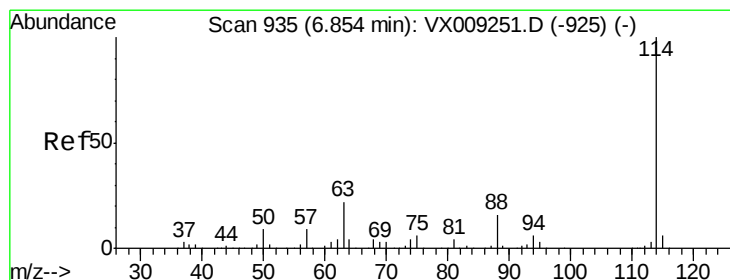
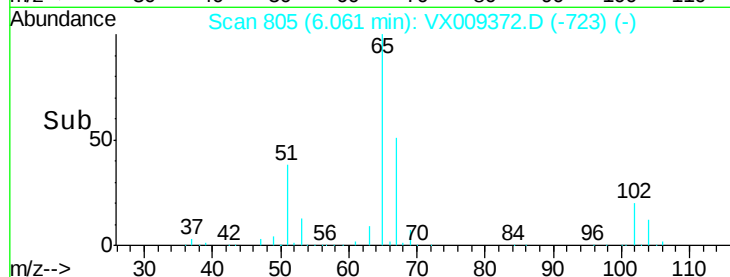
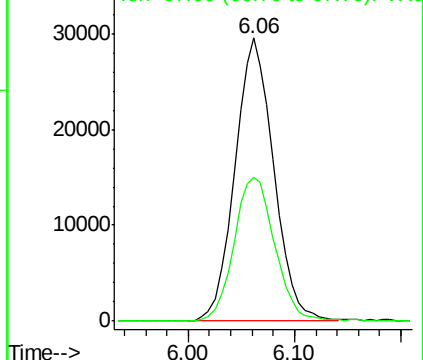
65 100

67 53.5 43.1 64.7



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.01 min

Lab File: VX009372.D

Acq: 07 May 2019 12:25

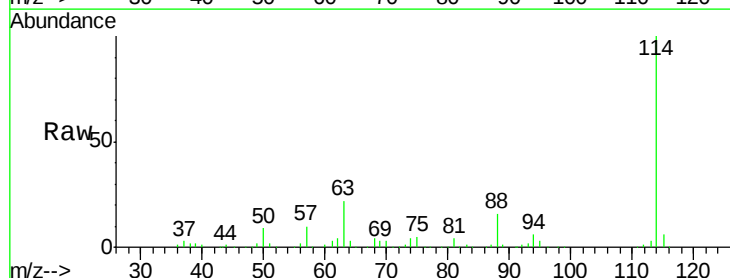
Tgt Ion: 114 Resp: 174348

Ion Ratio Lower Upper

114 100

63 22.9 18.0 27.0

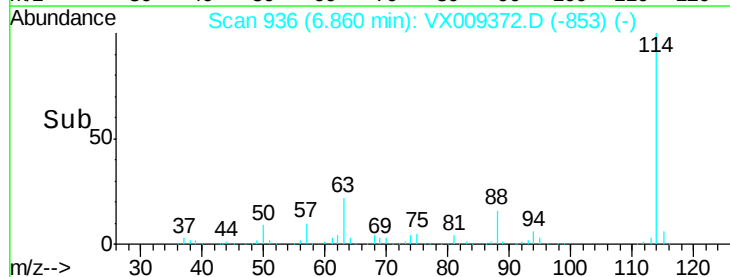
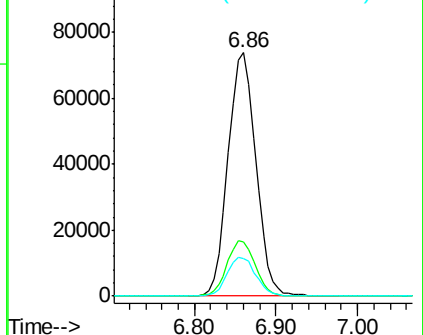
88 16.4 13.4 20.0

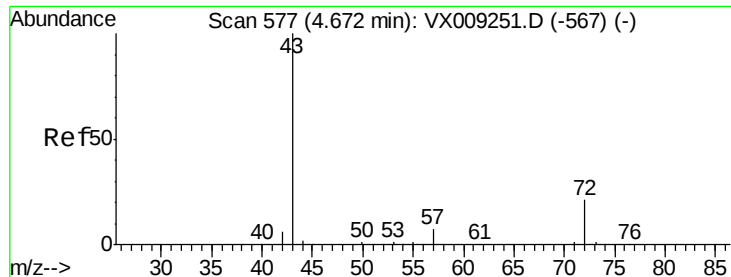


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

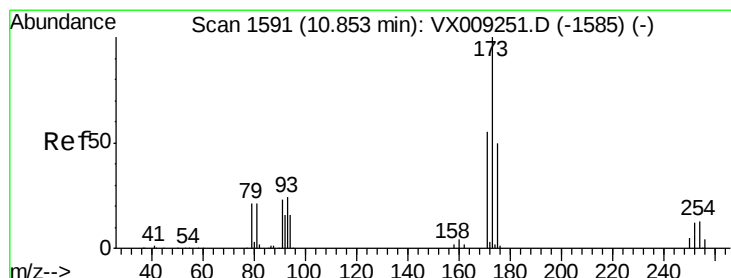
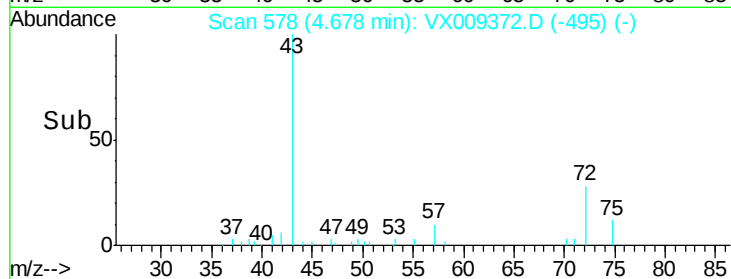
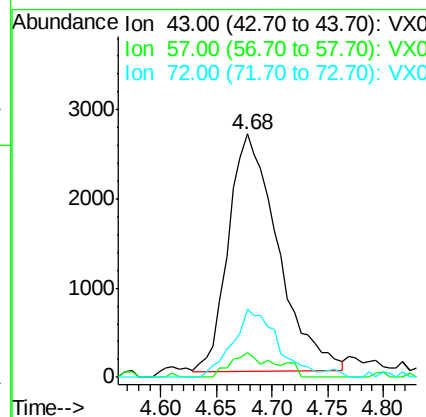
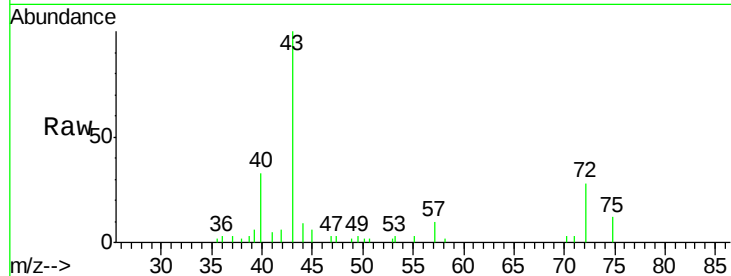




#30
2-Butanone
Concen: 4.125 ug/l
RT: 4.68 min Scan# 578
Delta R.T. 0.01 min
Lab File: VX009372.D
Acq: 07 May 2019 12:25

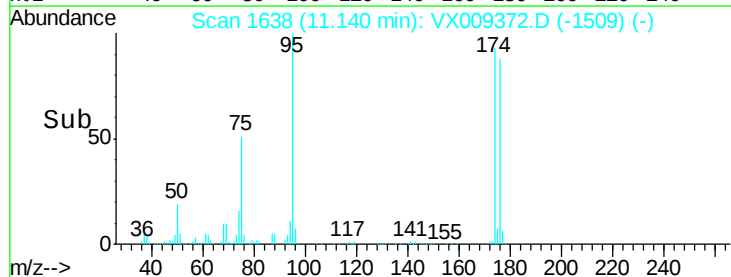
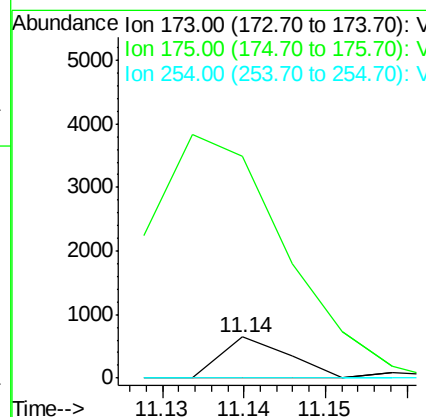
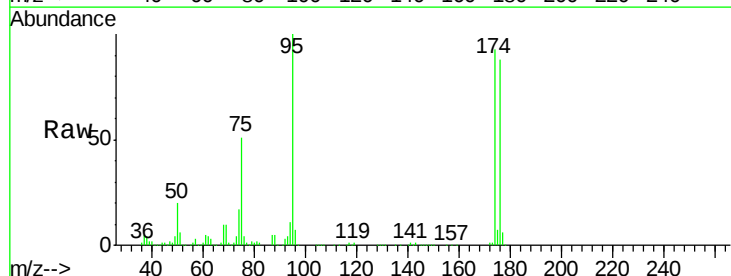
Instrument :
MSVOA_F
ClientSampleId :
001M-WILLETS-PT-BLVD(MAY)

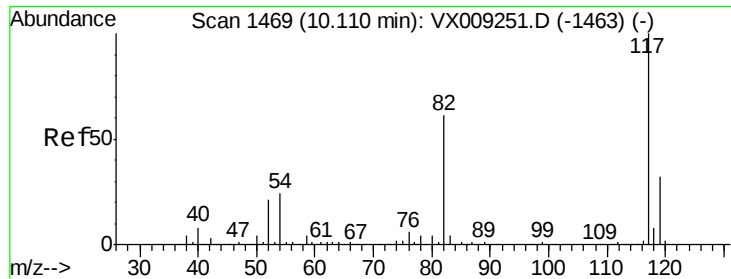
Tot Ion: 43 Resp: 8265
Ion Ratio Lower Upper
43 100
57 5.6 6.0 9.0#
72 25.7 18.2 27.4



#56
Bromoform
Concen: 0.242 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.29 min
Lab File: VX009372.D
Acq: 07 May 2019 12:25

Tgt Ion: 173 Resp: 362
Ion Ratio Lower Upper
173 100
175 1338.1 39.4 59.2#
254 0.0 9.9 14.9#

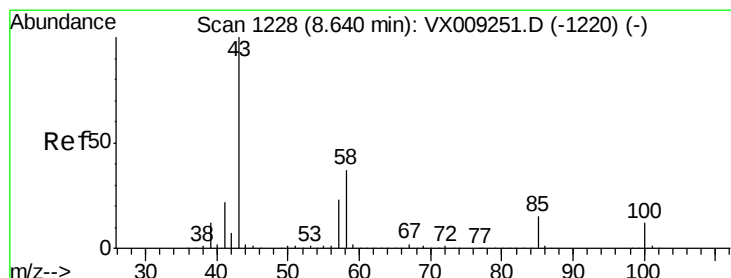
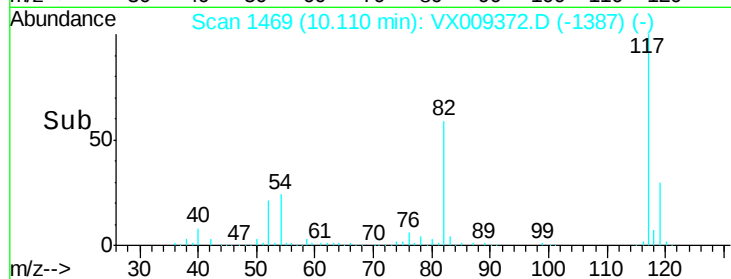
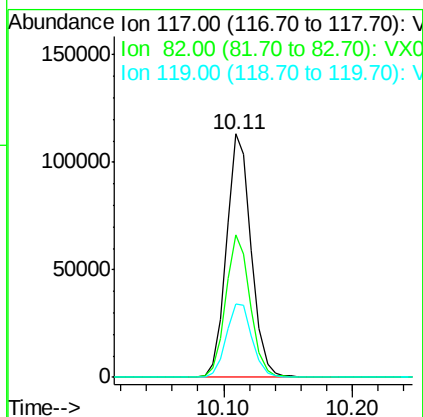
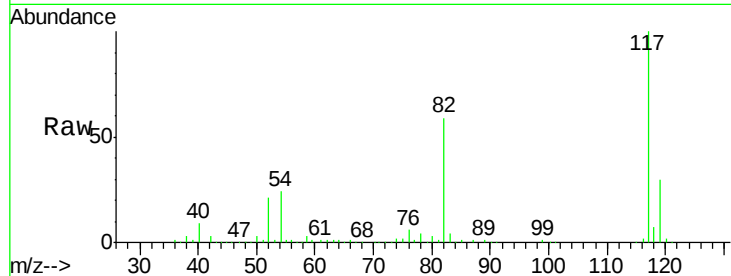




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009372.D
Acq: 07 May 2019 12:25

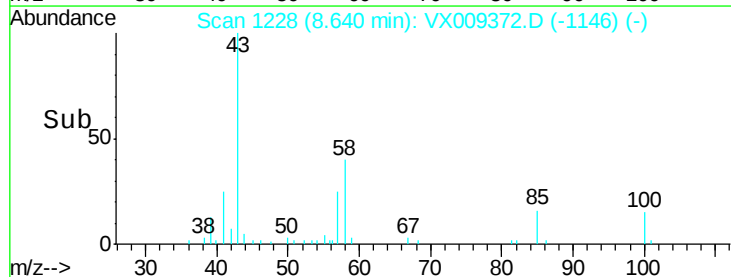
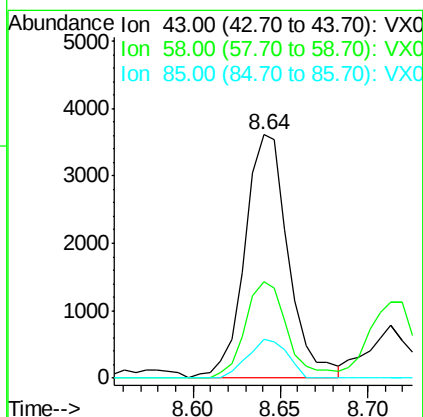
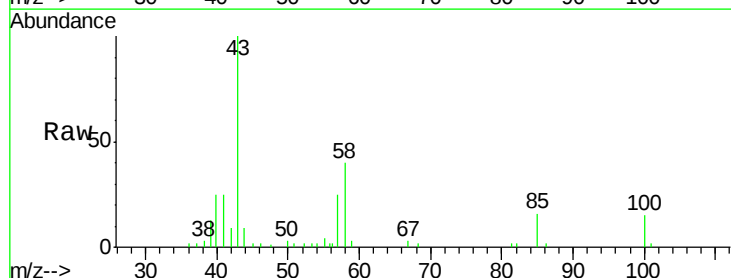
Instrument :
MSVOA_F
ClientSampleId :
001M-WILLETS-PT-BLVD(MAY)

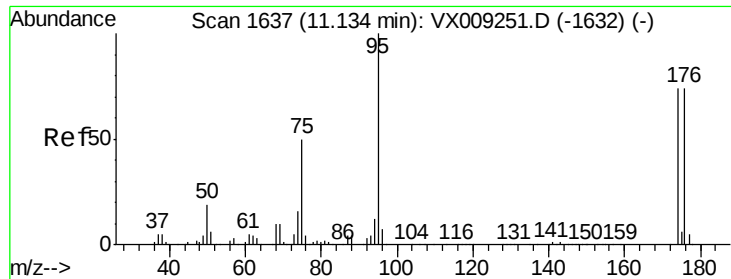
Tot Ion:117 Resp: 152131
Ion Ratio Lower Upper
117 100
82 57.9 47.8 71.8
119 31.7 25.6 38.4



#58
4-Methyl-2-Pentanone
Concen: 1.686 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VX009372.D
Acq: 07 May 2019 12:25

Tgt Ion: 43 Resp: 6308
Ion Ratio Lower Upper
43 100
58 38.5 29.4 44.0
85 14.3 11.8 17.8

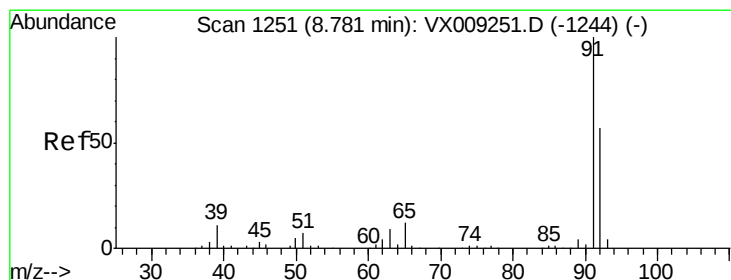
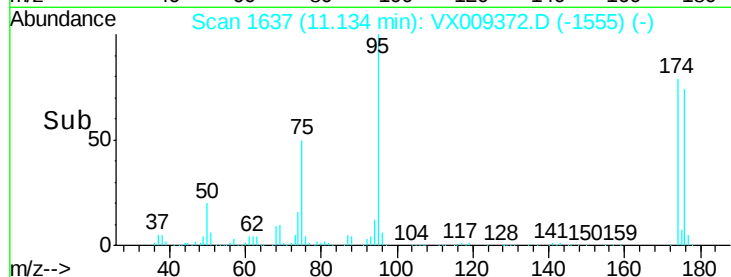
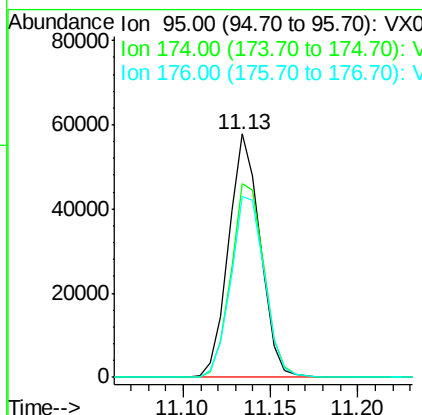
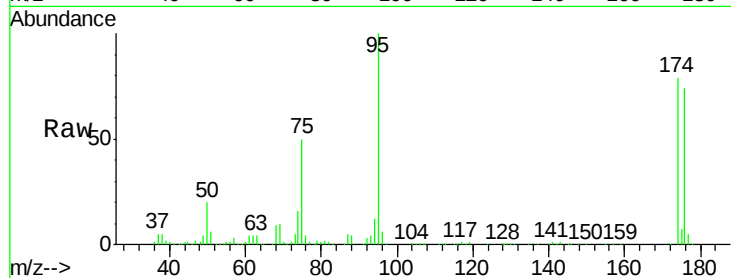




#60
 4-Bromofluorobenzene
 Concen: 28.150 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX009372.D
 Acq: 07 May 2019 12:25

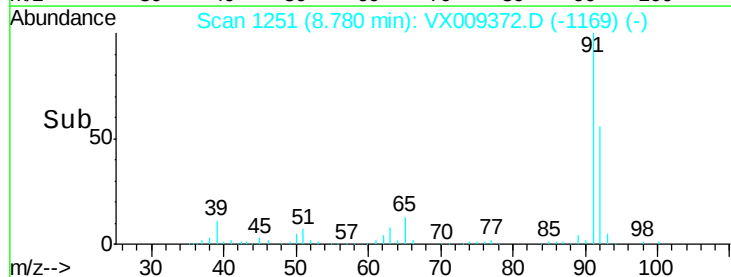
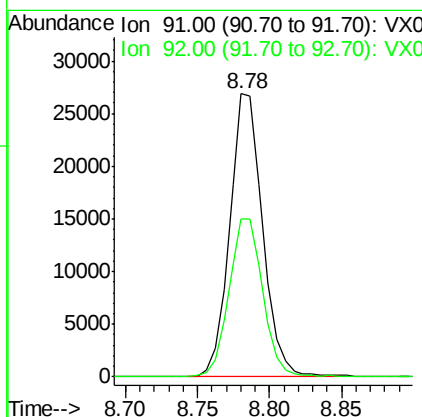
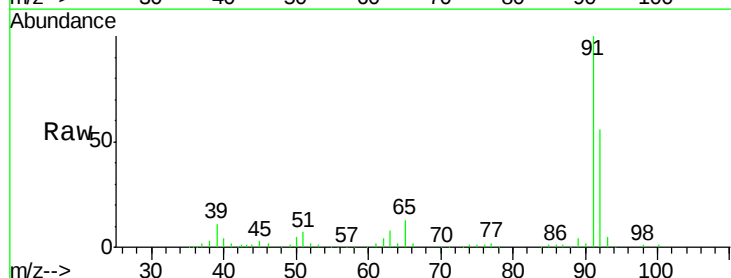
Instrument :
 MSVOA_F
 ClientSampleId :
 001M-WILLETS-PT-BLVD(MAY)

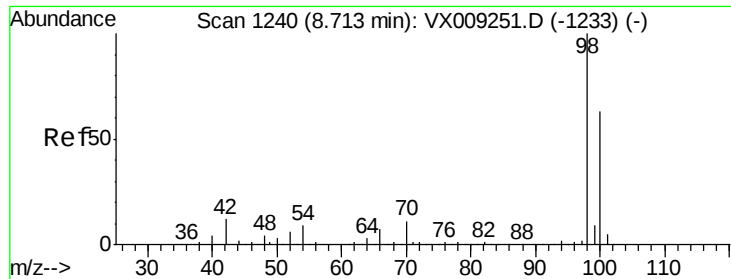
Tot Ion: 95 Resp: 72770
 Ion Ratio Lower Upper
 95 100
 174 83.2 63.6 95.4
 176 79.3 62.4 93.6



#62
 Toluene
 Concen: 5.280 ug/l
 RT: 8.78 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VX009372.D
 Acq: 07 May 2019 12:25

Tgt Ion: 91 Resp: 42922
 Ion Ratio Lower Upper
 91 100
 92 57.5 46.1 69.1





#63

Toluene-d8

Concen: 30.209 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009372.D

Acq: 07 May 2019 12:25

Instrument :

MSVOA_F

ClientSampleId :

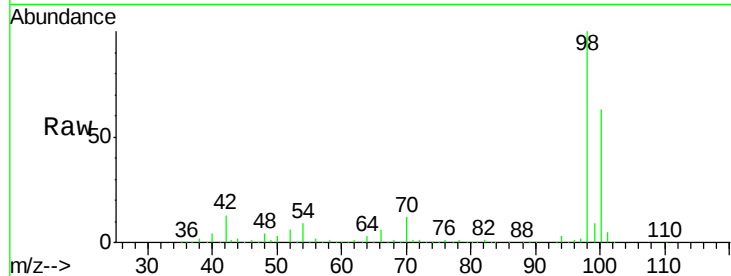
001M-WILLETS-PT-BLVD(MAY)

Tot Ion: 98 Resp: 217888

Ion Ratio Lower Upper

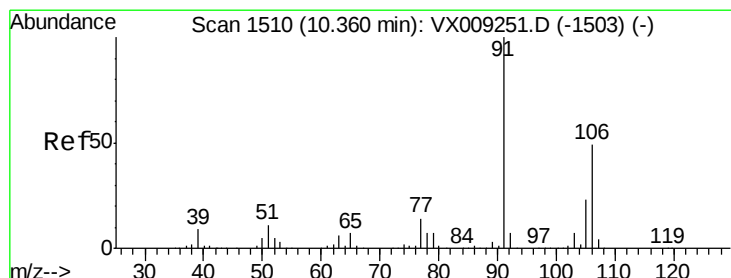
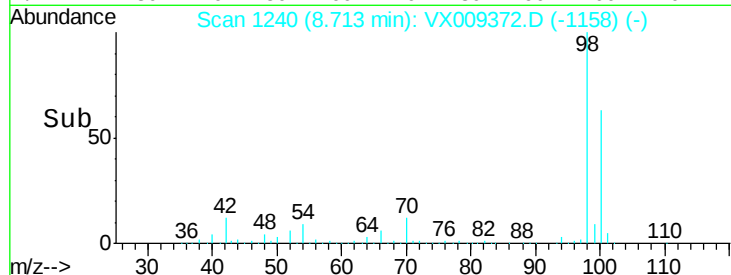
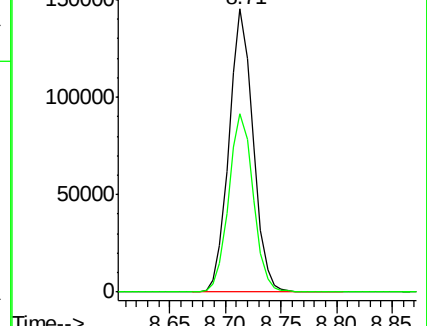
98 100

100 64.1 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#67

m/p-Xylenes

Concen: 0.603 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX009372.D

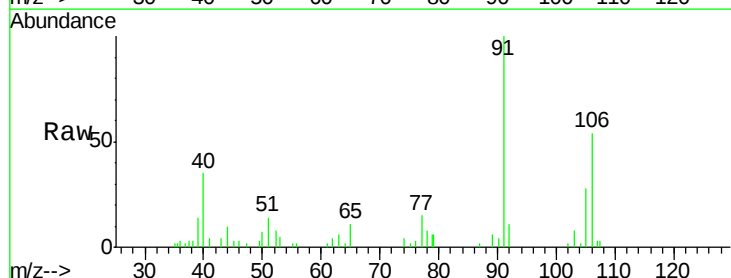
Acq: 07 May 2019 12:25

Tgt Ion:106 Resp: 1994

Ion Ratio Lower Upper

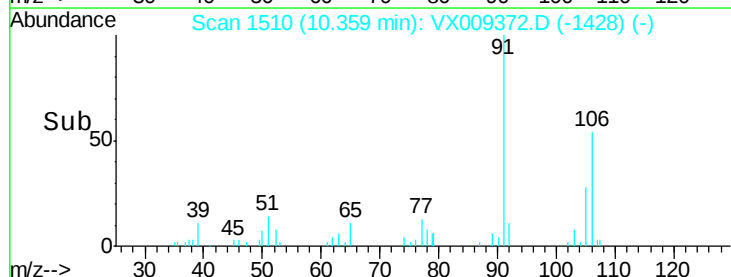
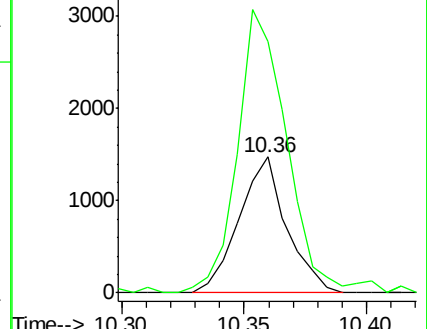
106 100

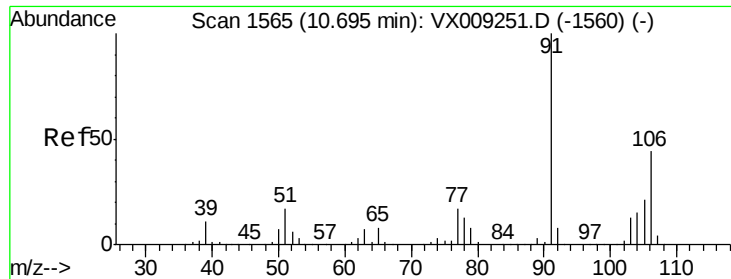
91 212.1 166.8 250.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

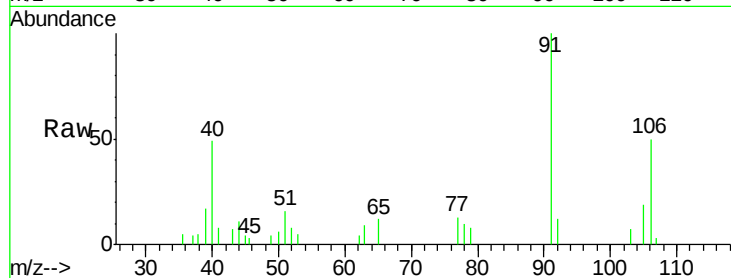




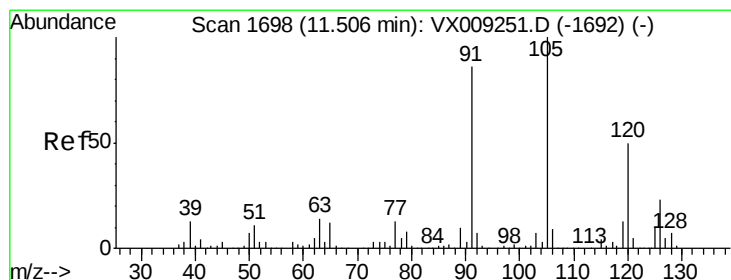
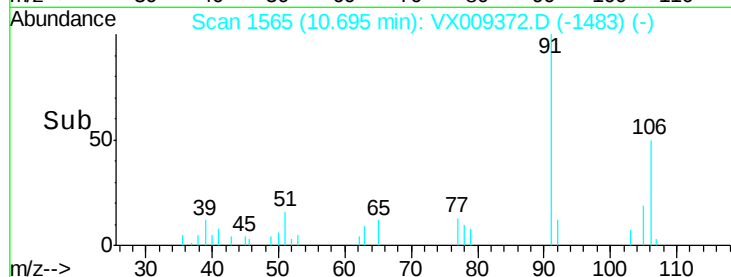
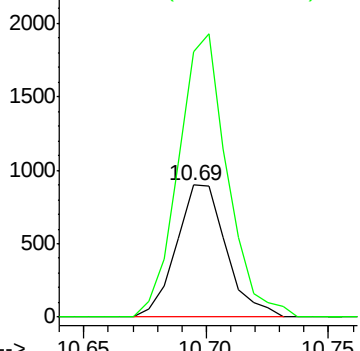
#68
o-Xylene
Concen: 0.392 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VX009372.D
Acq: 07 May 2019 12:25

Instrument :
MSVOA_F
ClientSampleId :
001M-WILLETS-PT-BLVD(MAY)

Tot Ion:106 Resp: 1274
Ion Ratio Lower Upper
106 100
91 209.4 110.8 332.3

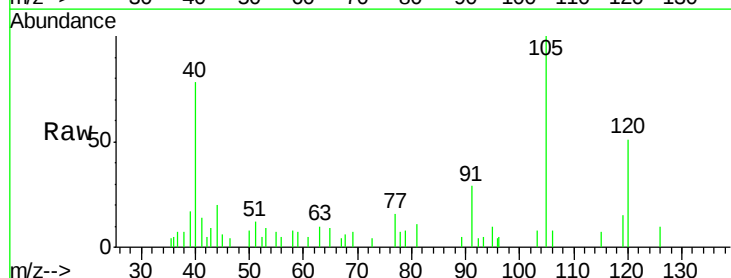


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

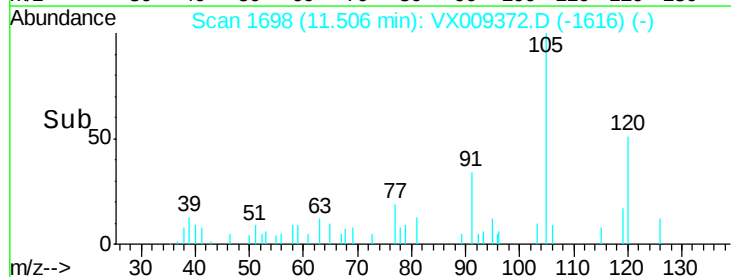
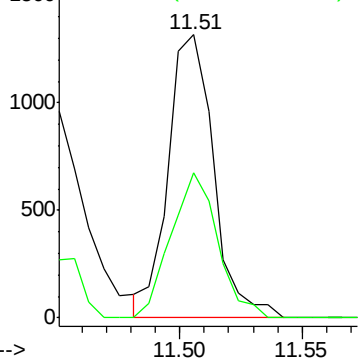


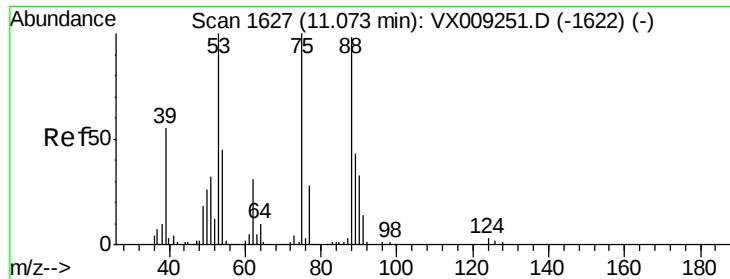
#76
1,3,5-Trimethylbenzene
Concen: 0.229 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. -0.00 min
Lab File: VX009372.D
Acq: 07 May 2019 12:25

Tgt Ion:105 Resp: 1697
Ion Ratio Lower Upper
105 100
120 53.2 0.0 97.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#77

t-1,4-Dichloro-2-butene

Concen: 33.469 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009372.D

Acq: 07 May 2019 12:25

Instrument :

MSVOA_F

ClientSampleId :

001M-WILLETS-PT-BLVD(MAY)

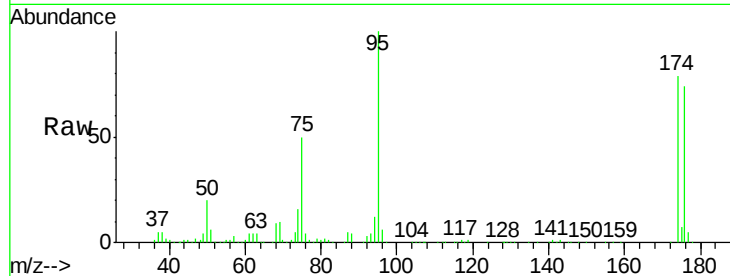
Tot Ion: 75 Resp: 37254

Ion Ratio Lower Upper

75 100

53 0.3 50.0 149.8#

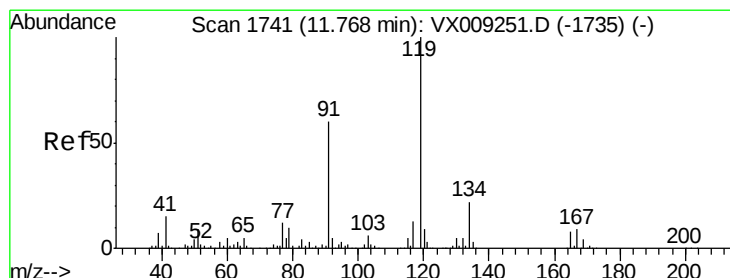
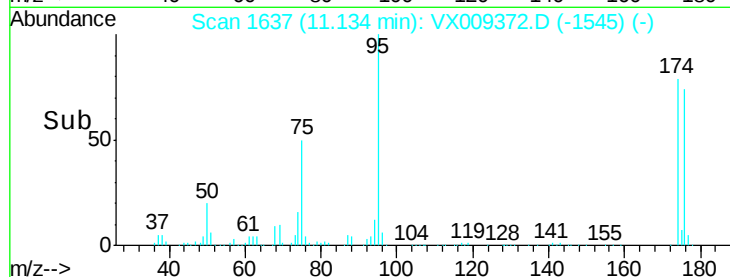
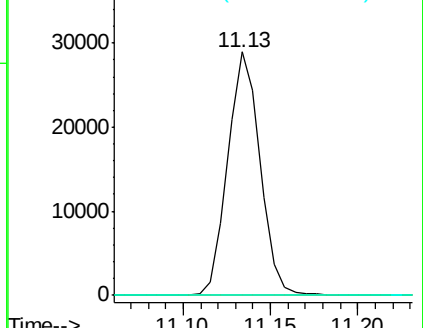
89 0.0 21.6 65.0#



Abundance Ion 75.00 (74.70 to 75.70): VX009372.D (-1622) (-)

Ion 53.00 (52.70 to 53.70): VX009372.D (-1622) (-)

Ion 89.00 (88.70 to 89.70): VX009372.D (-1622) (-)



#79

tert-butylbenzene

Concen: 0.362 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.29 min

Lab File: VX009372.D

Acq: 07 May 2019 12:25

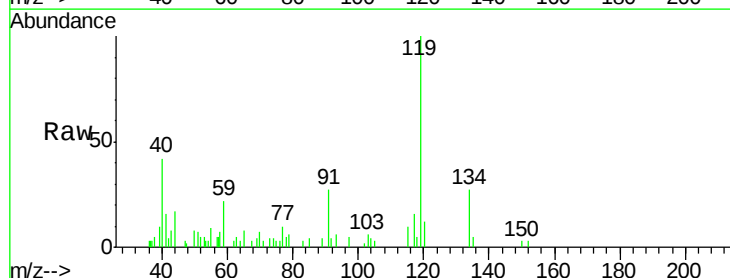
Tgt Ion: 119 Resp: 2591

Ion Ratio Lower Upper

119 100

91 29.2 0.0 118.2

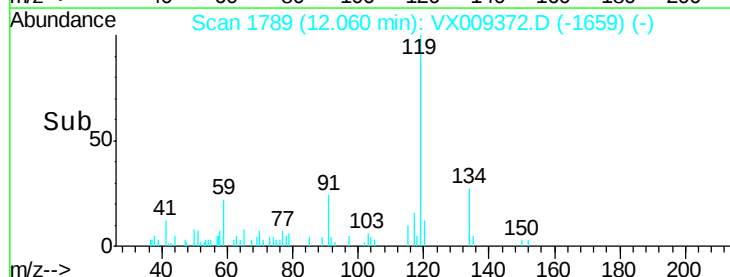
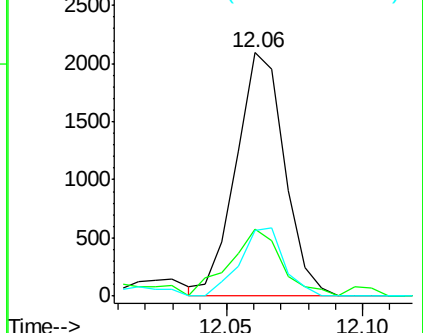
134 25.3 0.0 45.0

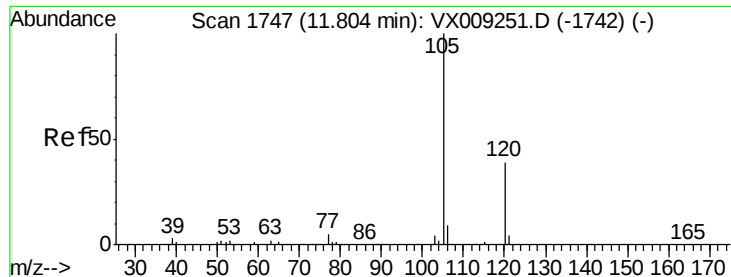


Abundance Ion 119.00 (118.70 to 119.70): VX009372.D (-1735) (-)

Ion 91.00 (90.70 to 91.70): VX009372.D (-1735) (-)

Ion 134.00 (133.70 to 134.70): VX009372.D (-1735) (-)

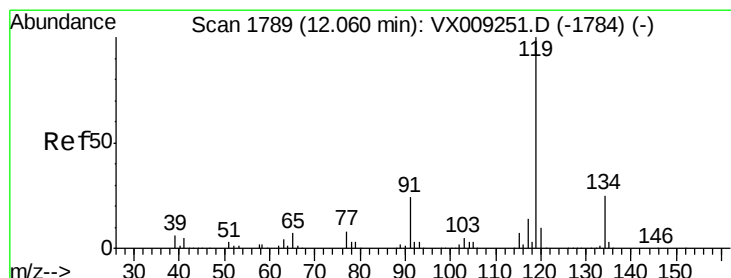
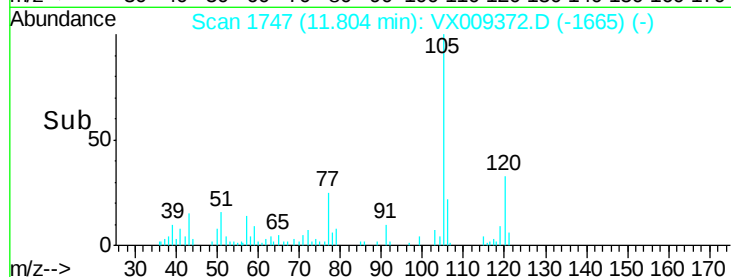
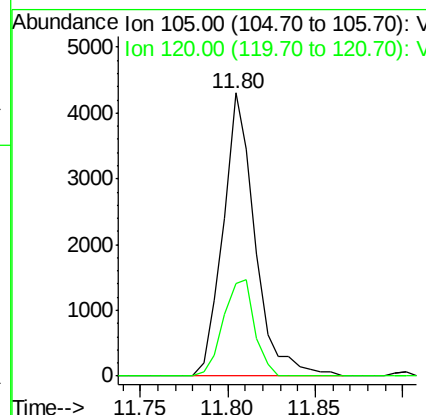
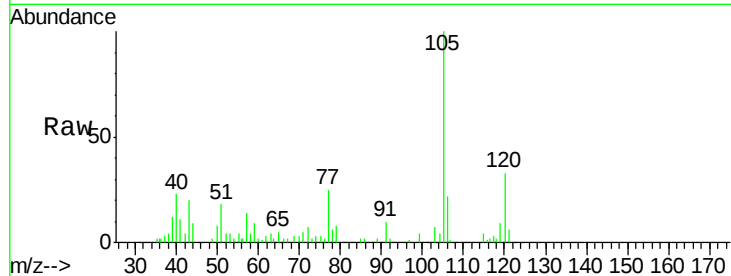




#80
 1,2,4-Trimethylbenzene
 Concen: 0.738 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. -0.00 min
 Lab File: VX009372.D
 Acq: 07 May 2019 12:25

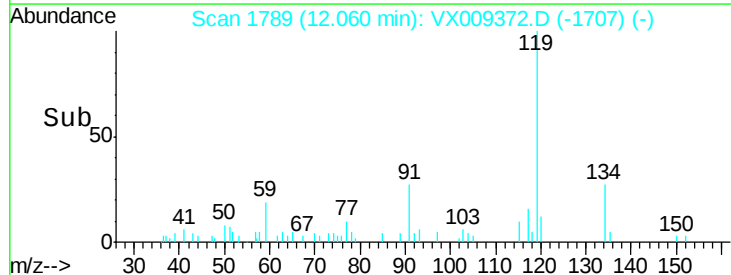
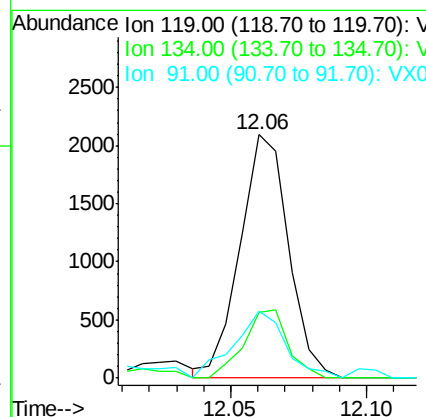
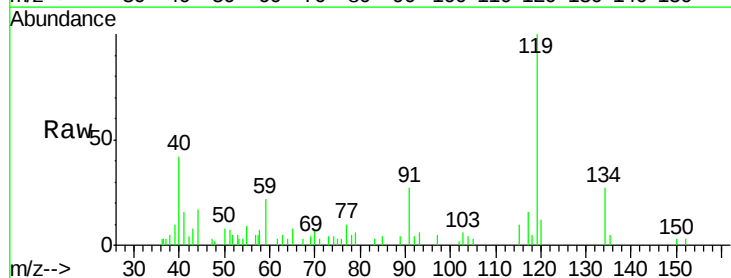
Instrument :
 MSVOA_F
 ClientSampleId :
 001M-WILLETS-PT-BLVD(MAY)

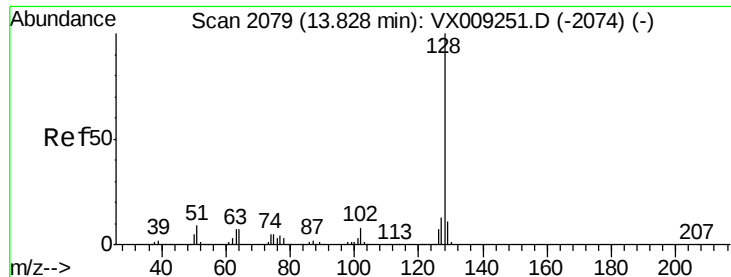
Tot Ion:105 Resp: 5477
 Ion Ratio Lower Upper
 105 100
 120 33.1 0.0 89.6



#82
 p-Isopropyltoluene
 Concen: 0.335 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. -0.00 min
 Lab File: VX009372.D
 Acq: 07 May 2019 12:25

Tgt Ion:119 Resp: 2591
 Ion Ratio Lower Upper
 119 100
 134 25.3 0.0 50.8
 91 29.2 0.0 47.2

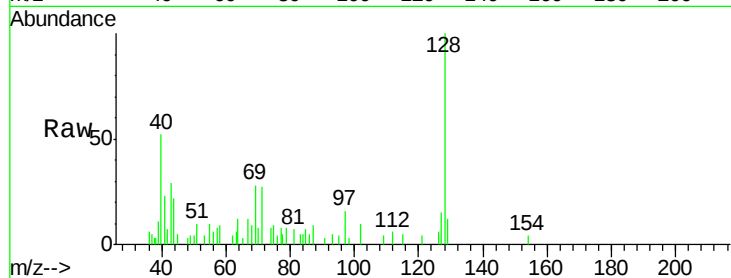




#91
Naphthalene
Concen: 0.261 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.01 min
Lab File: VX009372.D
Acq: 07 May 2019 12:25

Instrument :
MSVOA_F
ClientSampleId :
001M-WILLETS-PT-BLVD(MAY)

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.7	10.5	15.7
129	10.9	8.7	13.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

