

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030818\
 Data File : VX000220.D
 Acq On : 08 Mar 2018 13:22
 Operator : JC/MD
 Sample : J1791-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 001M-WILLETS-PT-BLVD(MAR)

Quant Time: Mar 08 15:51:11 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 21 06:17:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	20607	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	118721	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	110709	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	50214	31.49	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.97%
60) 4-Bromofluorobenzene	11.15	95	52809	29.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.20%
63) Toluene-d8	8.73	98	144665	30.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.70%

Target Compounds

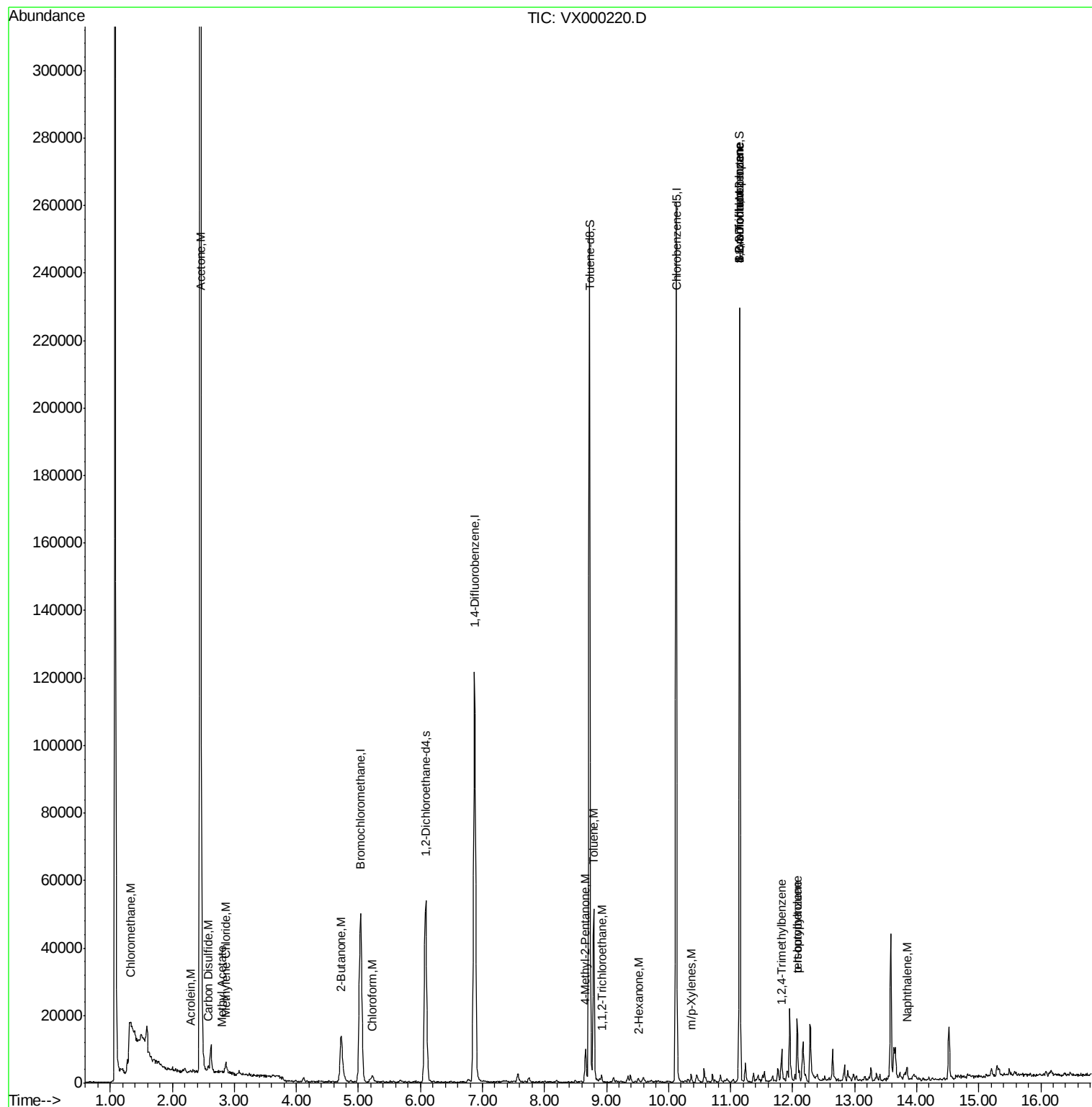
					Ovalue
3) Chloromethane	1.32	50	1113	0.868 ug/l #	68
12) Methyl Acetate	2.79	43	655	0.266 ug/l	99
13) Acrolein	2.29	56	92	0.311 ug/l	85
15) Acetone	2.45	58	137896	396.702 ug/l	99
16) Carbon Disulfide	2.58	76	1579	0.401 ug/l #	92
18) Methylene Chloride	2.86	84	1414	0.942 ug/l #	84
25) Chloroform	5.23	83	1813	0.748 ug/l #	58
30) 2-Butanone	4.72	43	24931	18.733 ug/l #	77
50) 1,1,2-Trichloroethane	8.92	97	1126	0.801 ug/l #	19
56) Bromoform	11.15	173	594	0.469 ug/l #	1
58) 4-Methyl-2-Pentanone	8.66	43	6606	2.724 ug/l	91
59) 2-Hexanone	9.51	43	706	0.344 ug/l #	88
62) Toluene	8.79	91	31165	5.410 ug/l	98
67) m/p-Xylenes	10.37	106	547	0.212 ug/l	75
72) 1,2,3-Trichloropropane	11.15	75	29669	14.204 ug/l	35
77) t-1,4-Dichloro-2-butene	11.15	75	29669	40.167 ug/l #	11
79) tert-butylbenzene	12.07	119	7447	1.305 ug/l	95
80) 1,2,4-Trimethylbenzene	11.82	105	2457	0.420 ug/l	66
82) p-Isopropyltoluene	12.07	119	7447	1.183 ug/l	94
91) Naphthalene	13.85	128	2450	0.285 ug/l	97

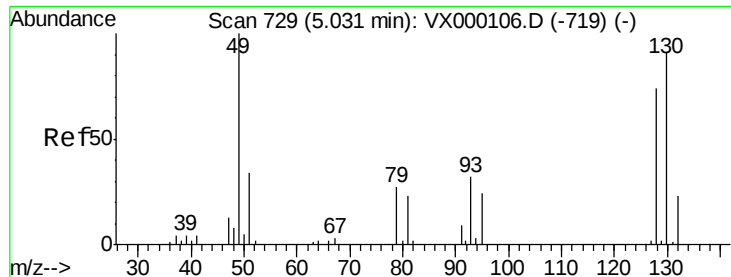
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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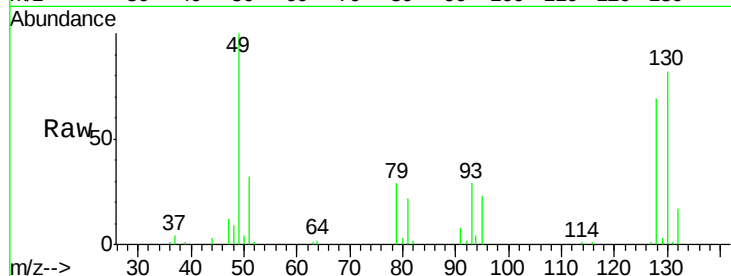




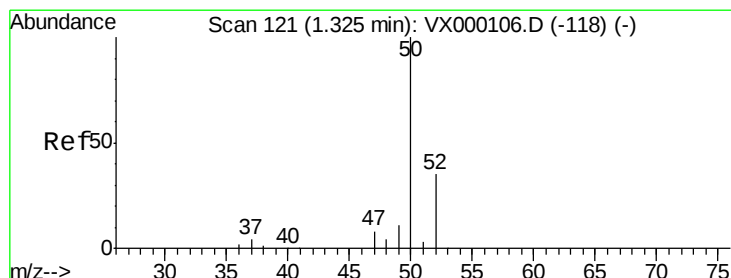
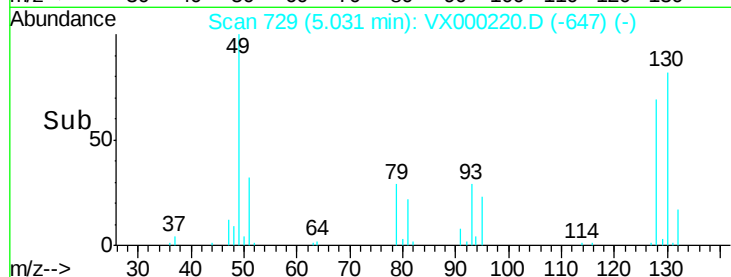
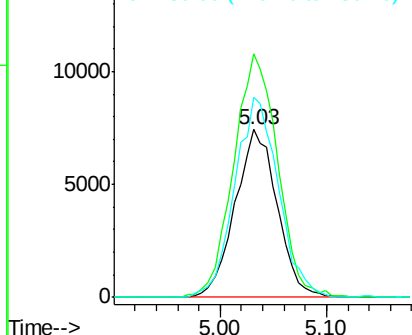
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.03 min Scan# 729
Delta R.T. 0.00 min
Lab File: VX000220.D
Acq: 08 Mar 2018 13:22

Instrument :
MSVOA_X
ClientSampleId :
001M-WILLETS-PT-BLVD(MAR)

Tot Ion:128 Resp: 20607
Ion Ratio Lower Upper
128 100
49 151.2 0.0 378.3
130 123.2 0.0 324.3

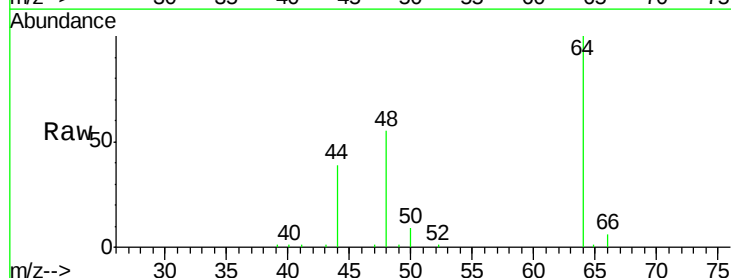


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VX0
Ion 130.00 (129.70 to 130.70): V

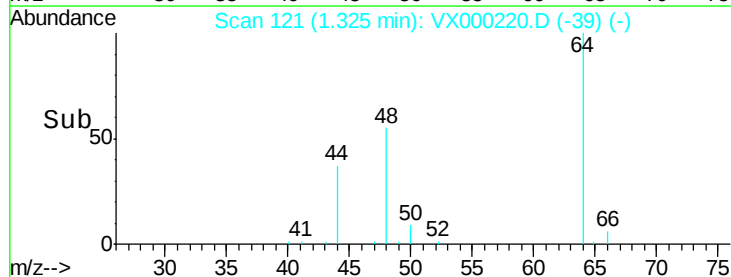
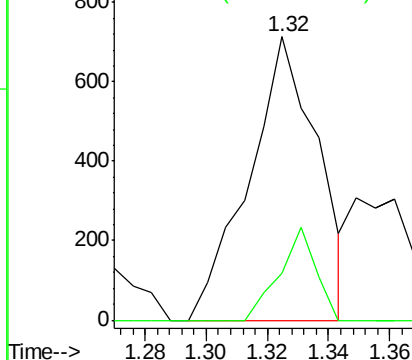


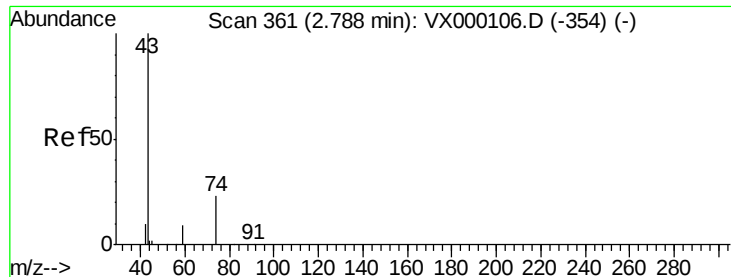
#3
Chloromethane
Concen: 0.868 ug/l
RT: 1.32 min Scan# 121
Delta R.T. 0.00 min
Lab File: VX000220.D
Acq: 08 Mar 2018 13:22

Tgt Ion: 50 Resp: 1113
Ion Ratio Lower Upper
50 100
52 16.4 27.8 41.6#



Abundance Ion 50.00 (49.70 to 50.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#12

Methvl Acetate

Concen: 0.266 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.00 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

Instrument :

MSVOA_X

ClientSampleId :

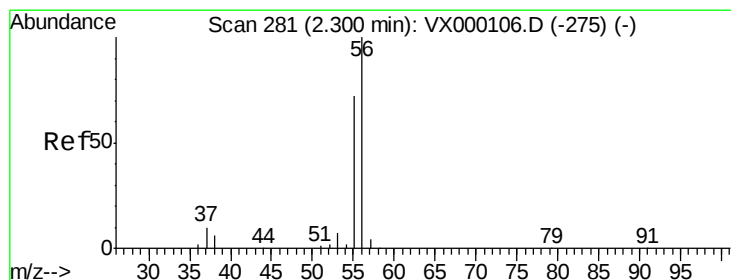
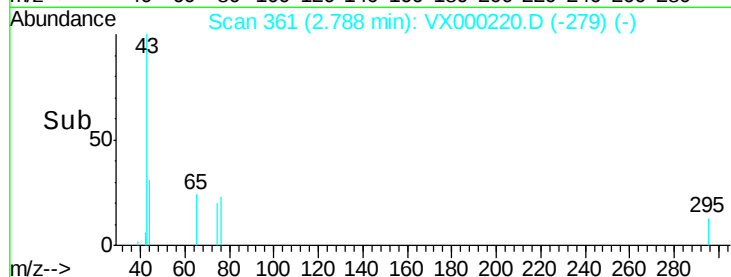
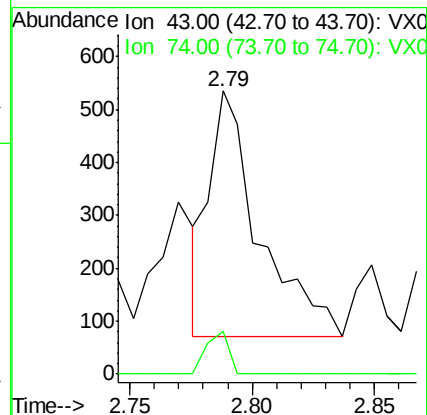
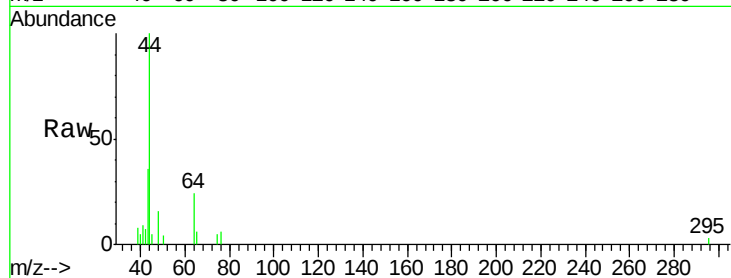
001M-WILLETS-PT-BLVD(MAR)

Tot Ion: 43 Resp: 655

Ion Ratio Lower Upper

43 100

74 22.8 18.6 27.8



#13

Acrolein

Concen: 0.311 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX000220.D

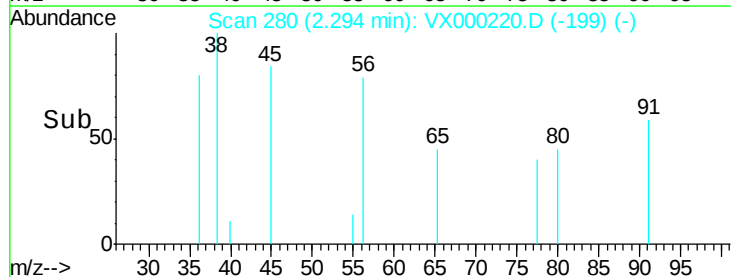
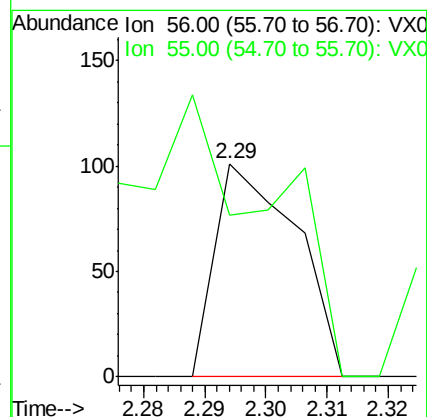
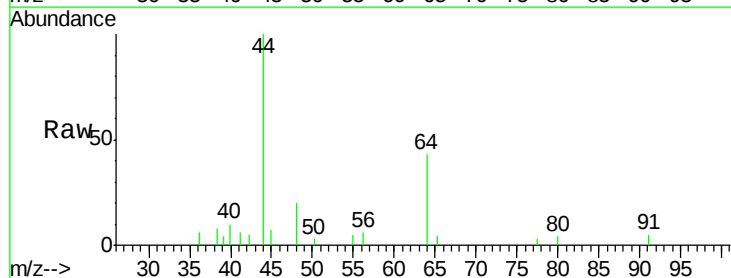
Acq: 08 Mar 2018 13:22

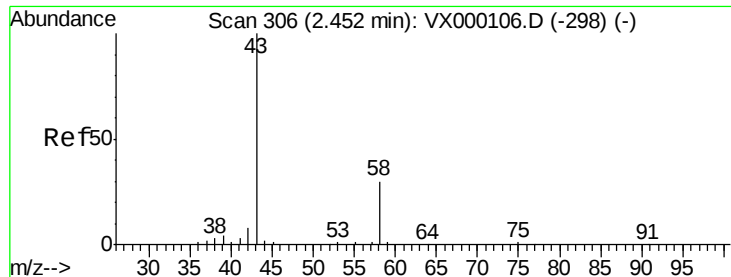
Tgt Ion: 56 Resp: 92

Ion Ratio Lower Upper

56 100

55 83.7 57.3 85.9





#15

Acetone

Concen: 396.702 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

Instrument :

MSVOA_X

ClientSampleId :

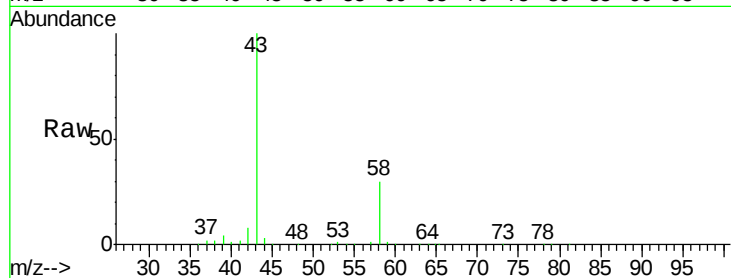
001M-WILLETS-PT-BLVD(MAR)

Tot Ion: 58 Resp: 137896

Ion Ratio Lower Upper

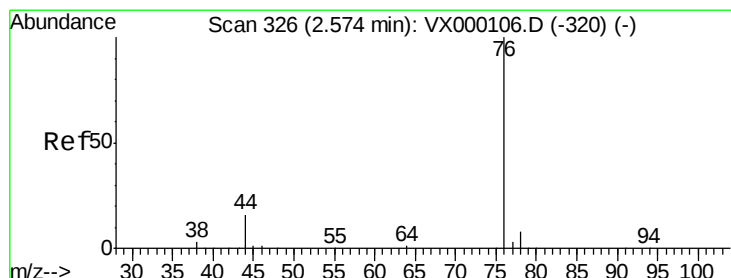
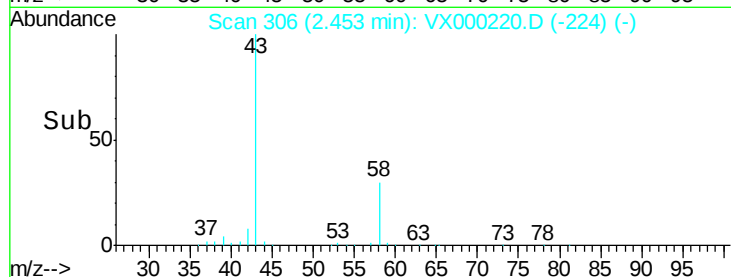
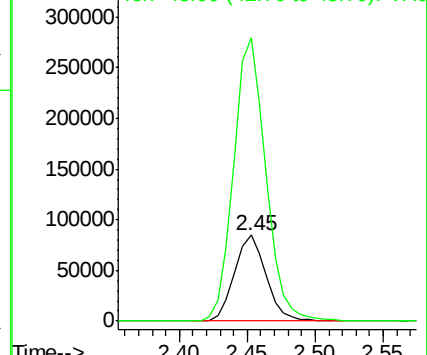
58 100

43 328.7 264.6 396.8



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: 2.58 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX000220.D

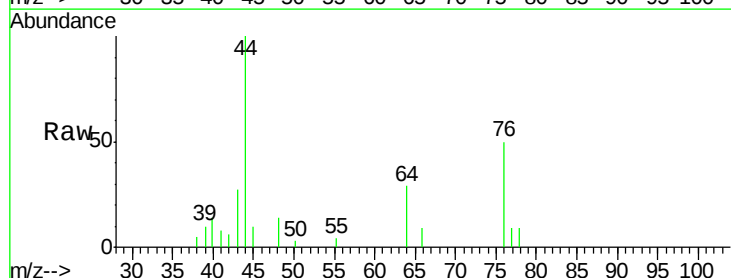
Acq: 08 Mar 2018 13:22

Tgt Ion: 76 Resp: 1579

Ion Ratio Lower Upper

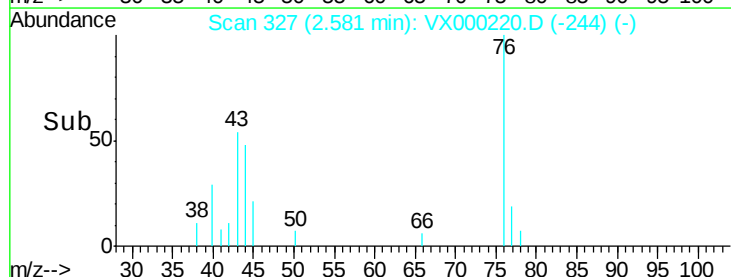
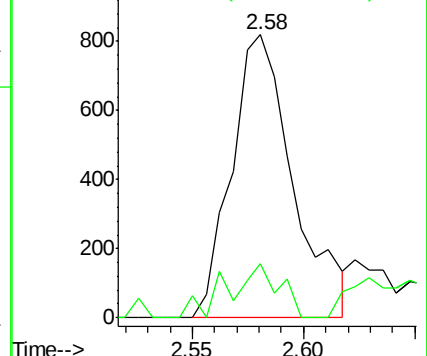
76 100

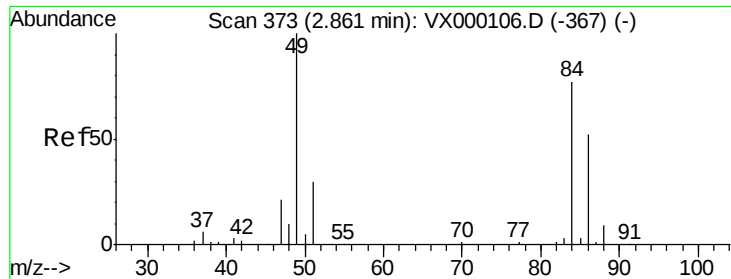
78 11.2 6.8 10.2#



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

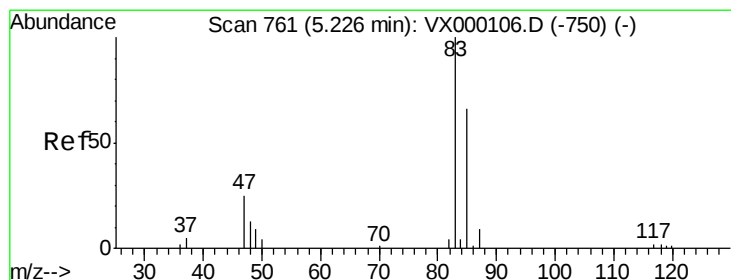
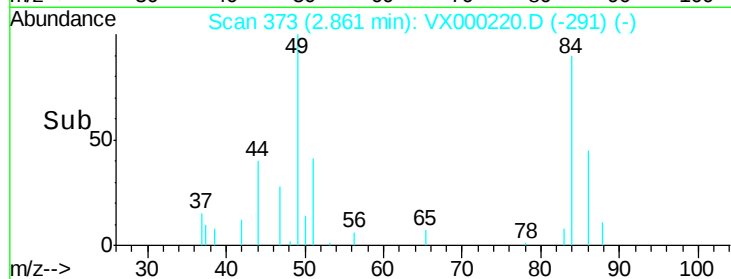
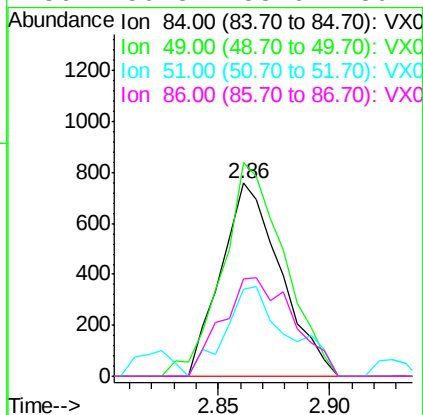
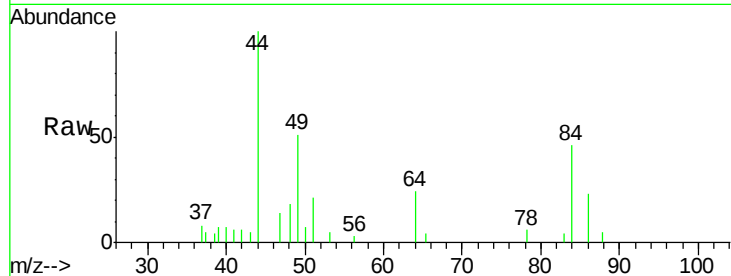




#18
Methvlene Chloride
Concen: 0.942 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX000220.D
Acq: 08 Mar 2018 13:22

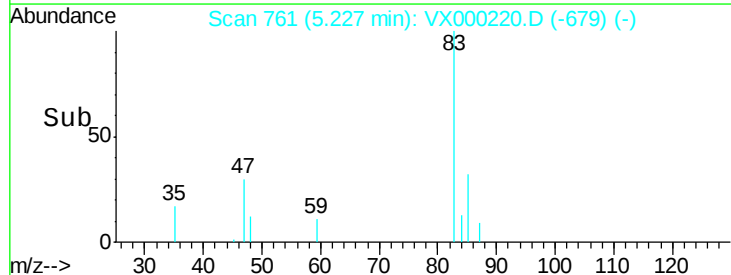
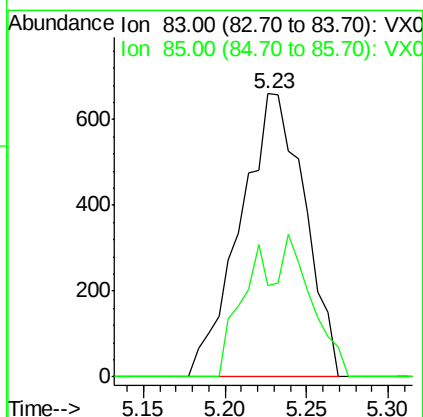
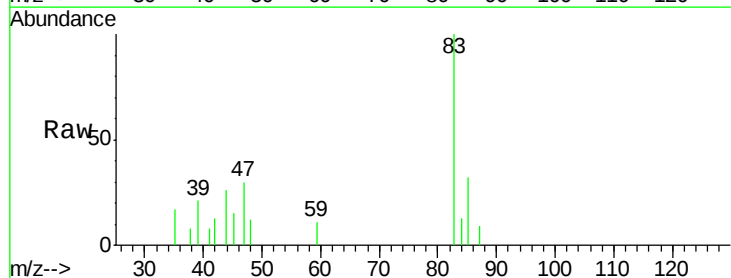
Instrument :
MSVOA_X
ClientSampleId :
001M-WILLETS-PT-BLVD(MAR)

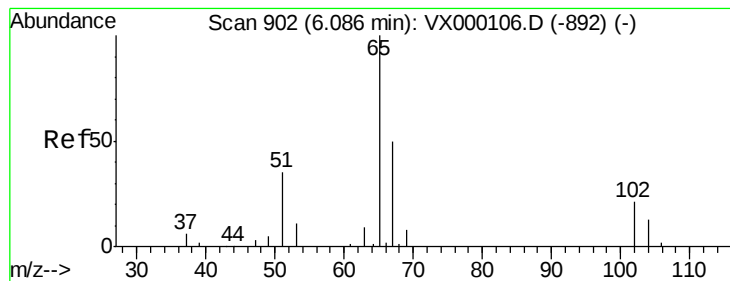
Tot Ion: 84 Resp: 1414
Ion Ratio Lower Upper
84 100
49 110.8 103.3 154.9
51 45.4 31.2 46.8
86 50.3 53.6 80.4#



#25
Chloroform
Concen: 0.748 ug/l
RT: 5.23 min Scan# 761
Delta R.T. 0.00 min
Lab File: VX000220.D
Acq: 08 Mar 2018 13:22

Tgt Ion: 83 Resp: 1813
Ion Ratio Lower Upper
83 100
85 32.4 52.5 78.7#





#27

1,2-Dichloroethane-d4

Concen: 31.485 ug/l

RT: 6.08 min Scan# 901

Delta R.T. -0.01 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

Instrument :

MSVOA_X

ClientSampleId :

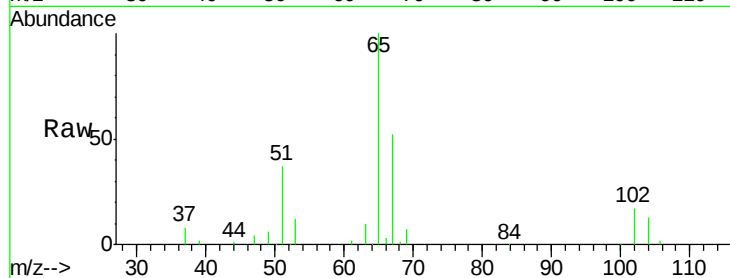
001M-WILLETS-PT-BLVD(MAR)

Tot Ion: 65 Resp: 50214

Ion Ratio Lower Upper

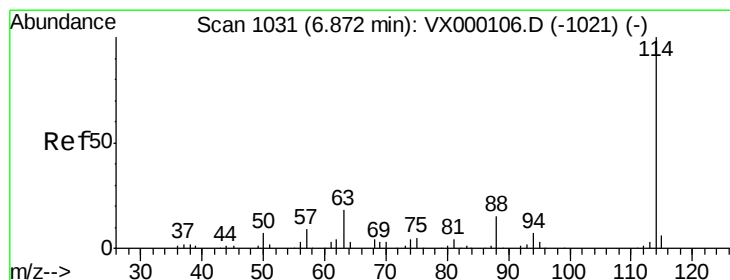
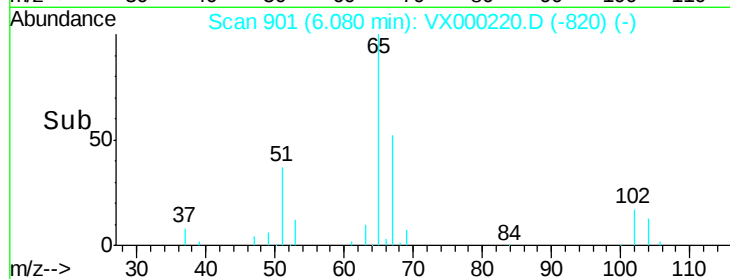
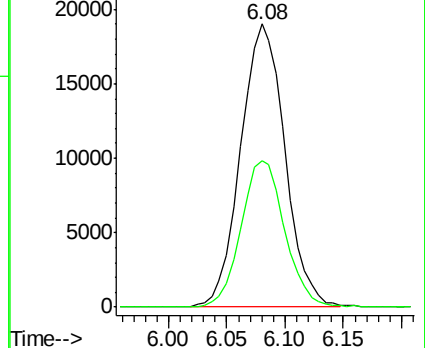
65 100

67 51.0 41.4 62.2



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: 6.87 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

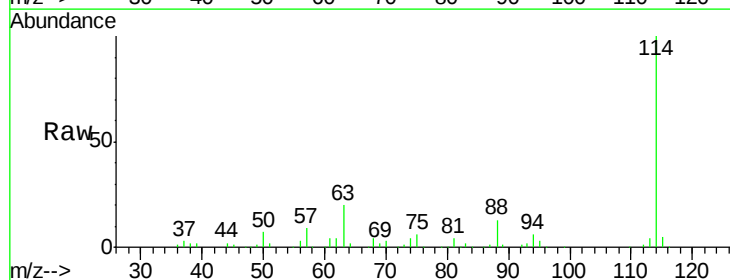
Tgt Ion: 114 Resp: 118721

Ion Ratio Lower Upper

114 100

63 20.1 15.0 22.4

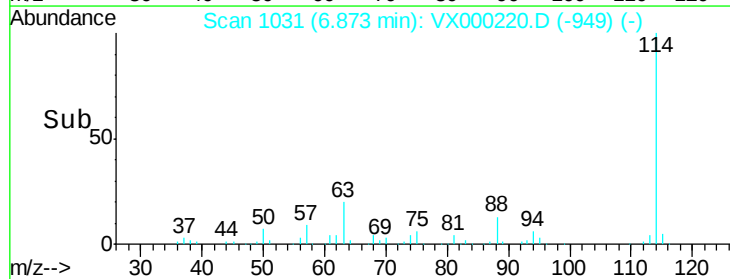
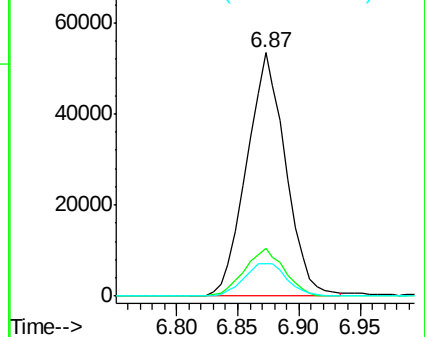
88 14.8 11.8 17.8

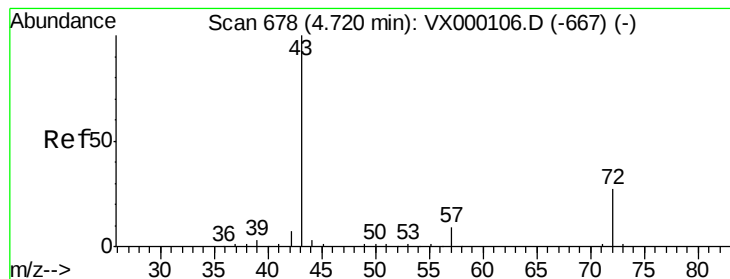


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#30

2-Butanone

Concen: 18.733 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.00 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

Instrument :

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ClientSampleId :

001M-WILLETS-PT-BLVD(MAR)

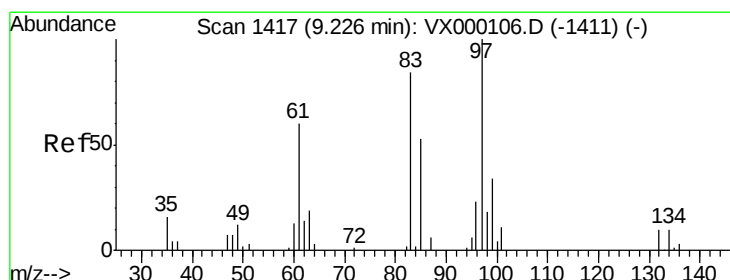
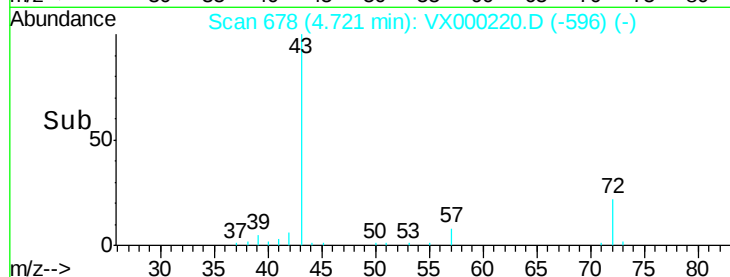
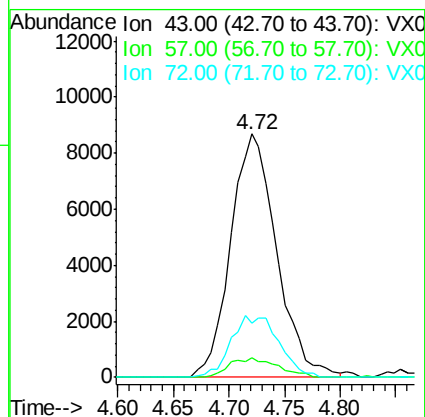
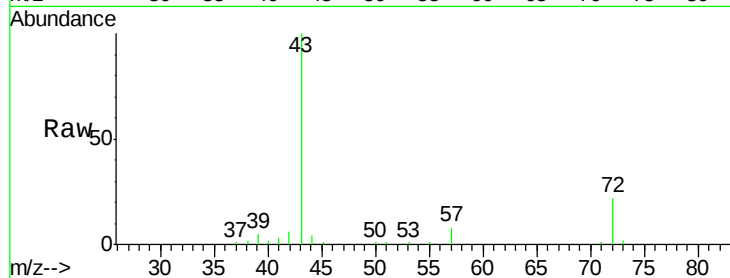
Tot Ion: 43 Resp: 24931

Ion Ratio Lower Upper

43 100

57 5.1 6.6 10.0#

72 12.8 21.8 32.6#



#50

1,1,2-Trichloroethane

Concen: 0.801 ug/l

RT: 8.92 min Scan# 1367

Delta R.T. -0.30 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

Tgt Ion: 97 Resp: 1126

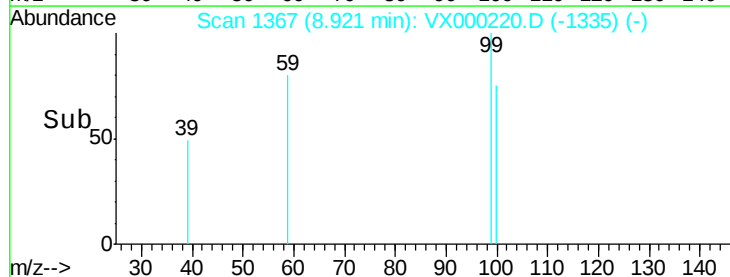
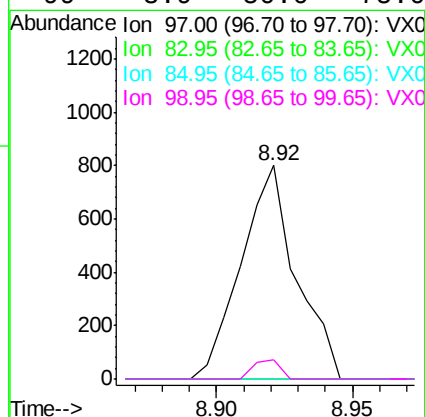
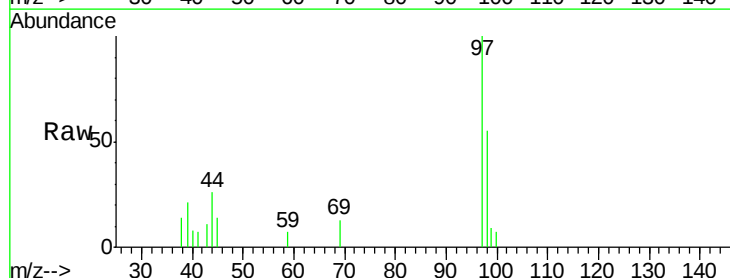
Ion Ratio Lower Upper

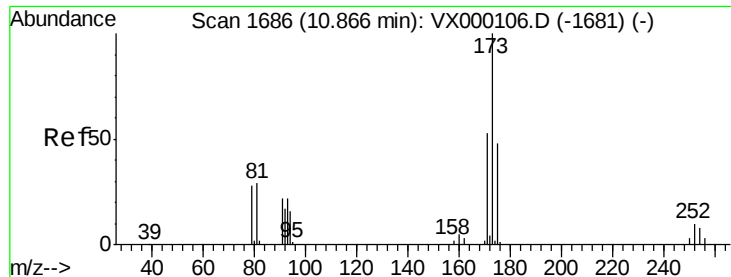
97 100

83 0.0 66.9 100.3#

85 0.0 44.4 66.6#

99 8.9 50.0 75.0#





#56

Bromoform

Concen: 0.469 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.28 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

Instrument :

MSVOA_X

ClientSampleId :

001M-WILLETS-PT-BLVD(MAR)

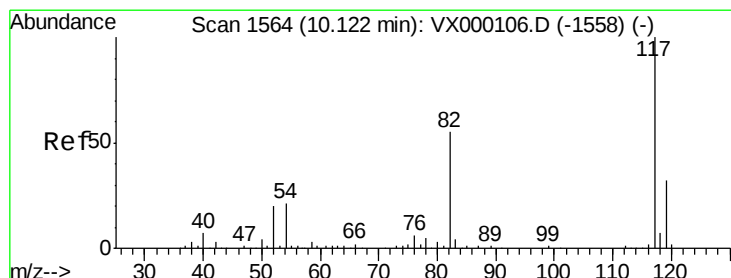
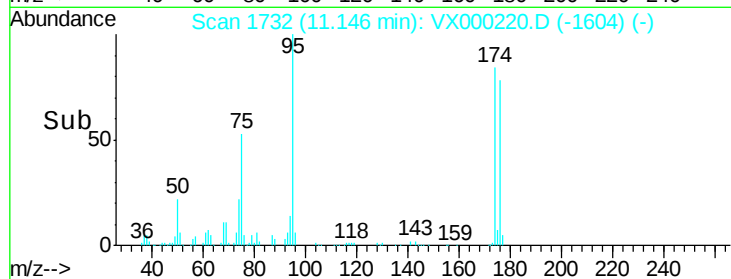
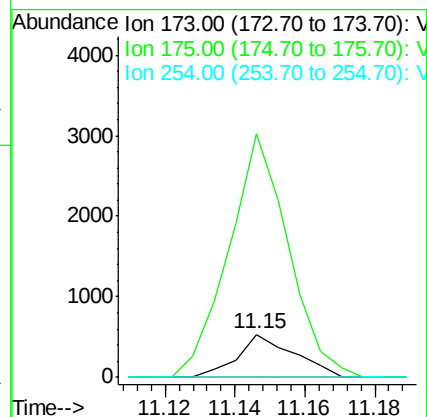
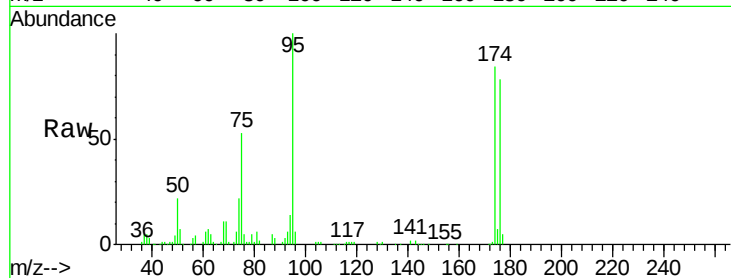
Tot Ion:173 Resp: 594

Ion Ratio Lower Upper

173 100

175 602.9 39.0 58.4#

254 0.0 7.0 10.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

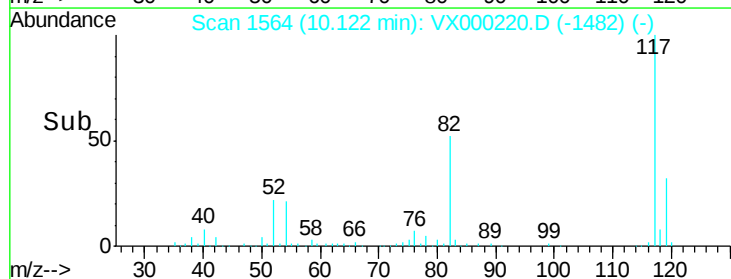
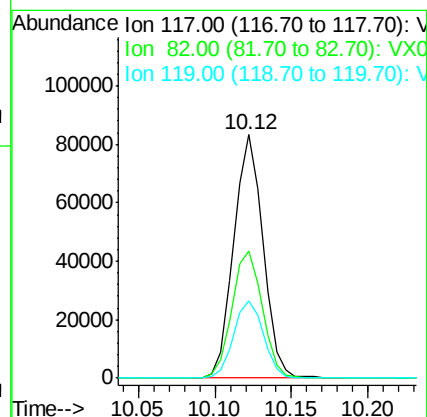
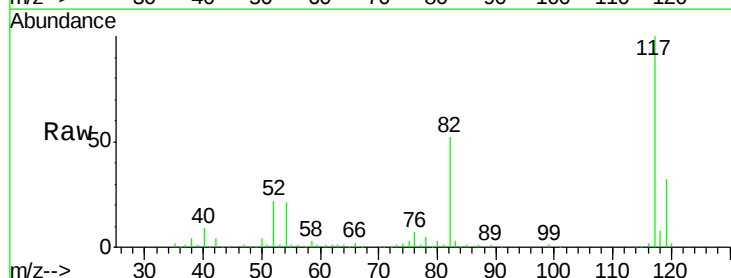
Tgt Ion:117 Resp: 110709

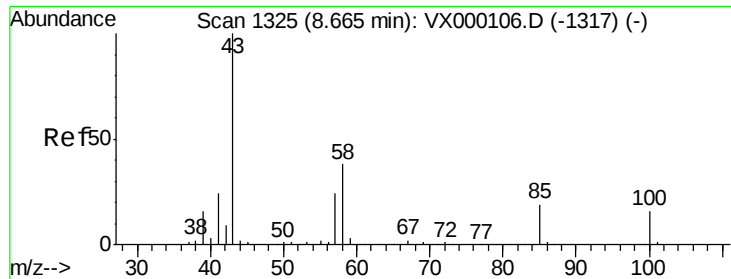
Ion Ratio Lower Upper

117 100

82 54.1 43.0 64.4

119 32.4 25.8 38.8





#58

4-Methyl-2-Pentanone

Concen: 2.724 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. -0.01 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

Instrument :

MSVOA_X

ClientSampleId :

001M-WILLETS-PT-BLVD(MAR)

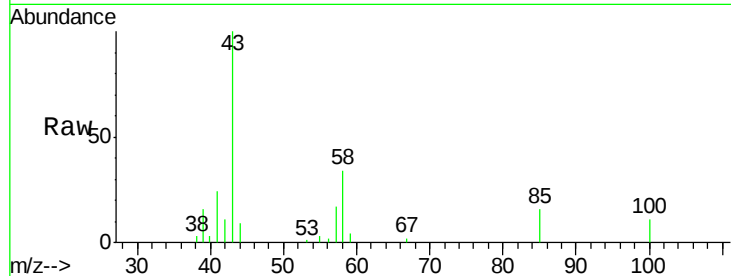
Tot Ion: 43 Resp: 6606

Ion Ratio Lower Upper

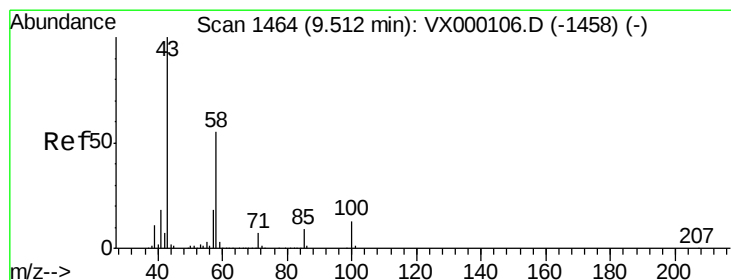
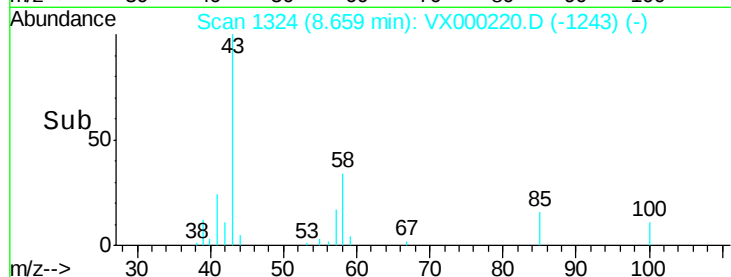
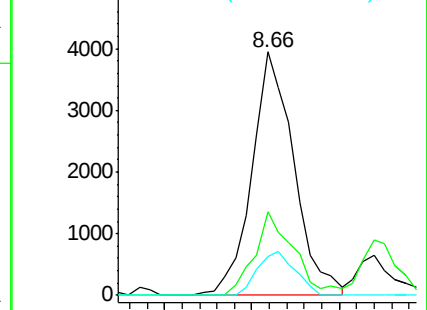
43 100

58 30.6 29.8 44.8

85 16.2 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 85.00 (84.70 to 85.70): VX0



#59

2-Hexanone

Concen: 0.344 ug/l

RT: 9.51 min Scan# 1464

Delta R.T. 0.00 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

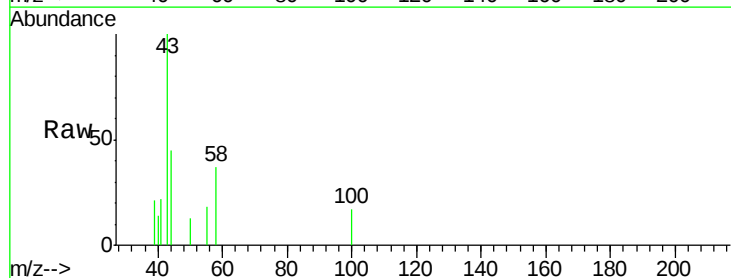
Tgt Ion: 43 Resp: 706

Ion Ratio Lower Upper

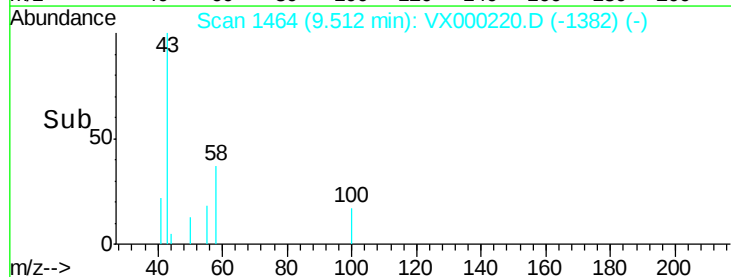
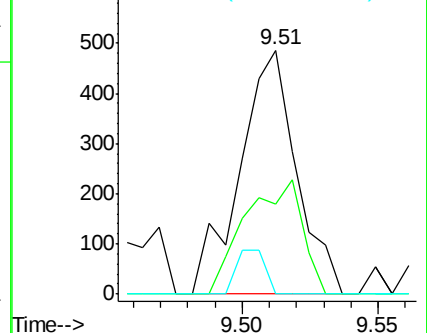
43 100

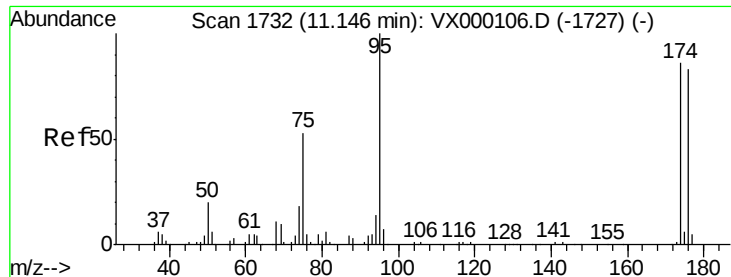
58 47.2 43.0 64.6

57 9.1 14.4 21.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

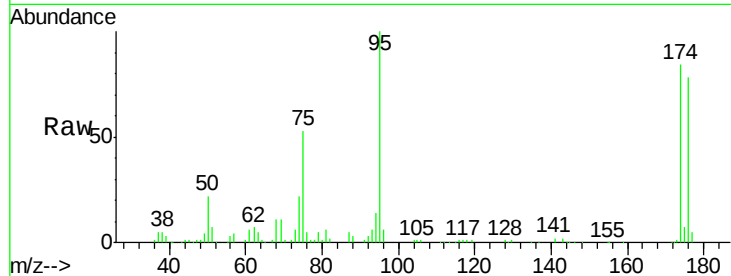




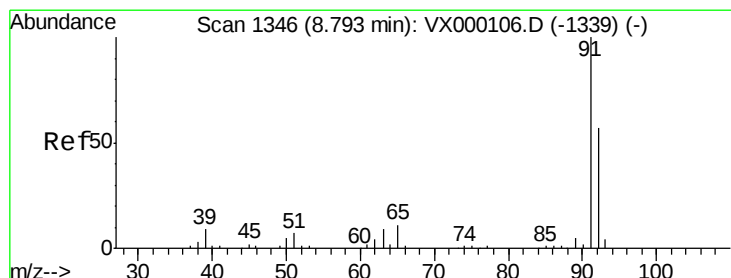
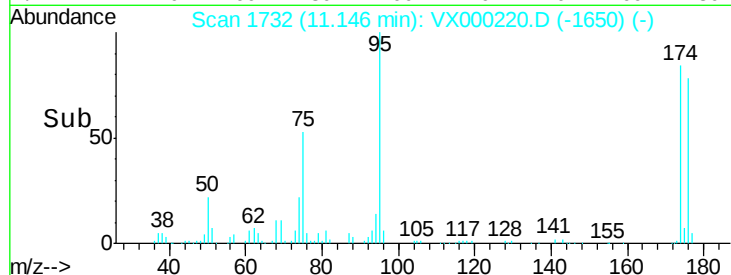
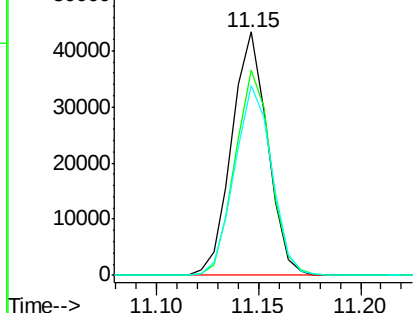
#60
4-Bromofluorobenzene
Concen: 29.158 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VX000220.D
Acq: 08 Mar 2018 13:22

Instrument :
MSVOA_X
ClientSampleId :
001M-WILLETS-PT-BLVD(MAR)

Tot Ion: 95 Resp: 52809
Ion Ratio Lower Upper
95 100
174 84.3 71.1 106.7
176 81.1 69.3 103.9

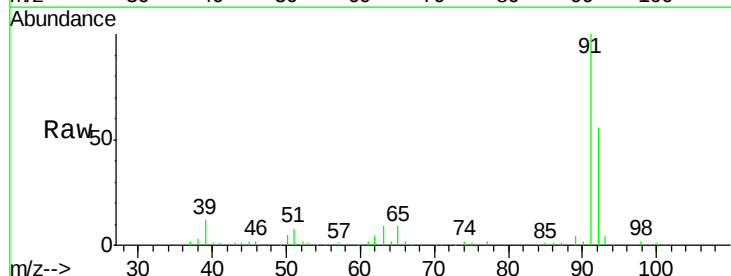


Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

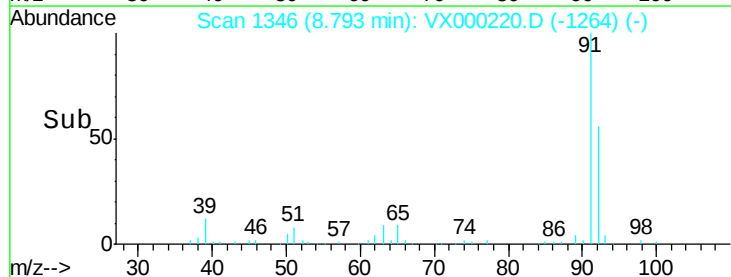
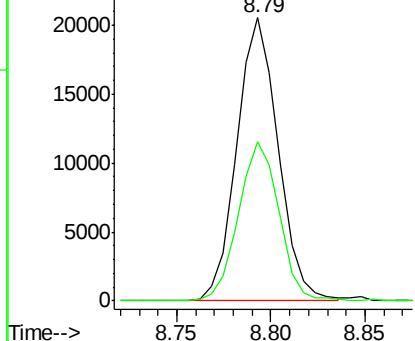


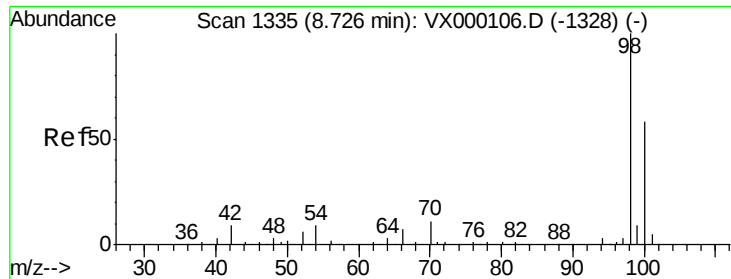
#62
Toluene
Concen: 5.410 ug/l
RT: 8.79 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VX000220.D
Acq: 08 Mar 2018 13:22

Tgt Ion: 91 Resp: 31165
Ion Ratio Lower Upper
91 100
92 55.4 45.4 68.0



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 30.506 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

Instrument :

MSVOA_X

ClientSampleId :

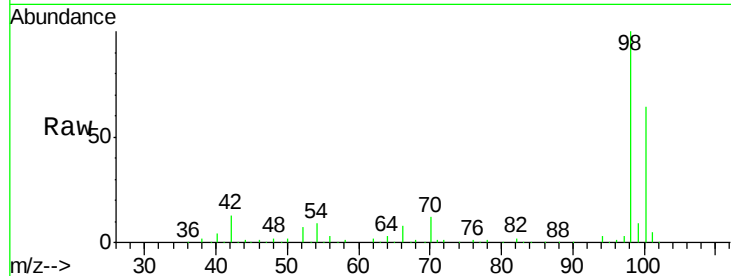
001M-WILLETS-PT-BLVD(MAR)

Tot Ion: 98 Resp: 144665

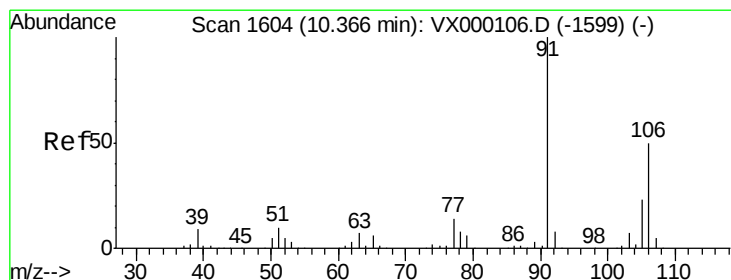
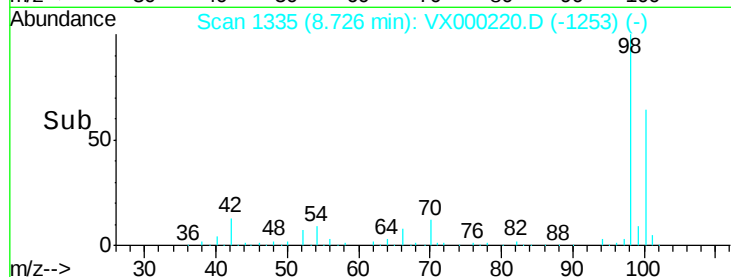
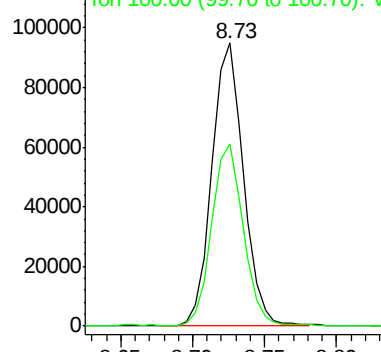
Ion Ratio Lower Upper

98 100

100 63.4 50.0 75.0



Abundance Ion 98.00 (97.70 to 98.70): VX000106.D (-1328) (-)



#67

m/p-Xylenes

Concen: 0.212 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VX000220.D

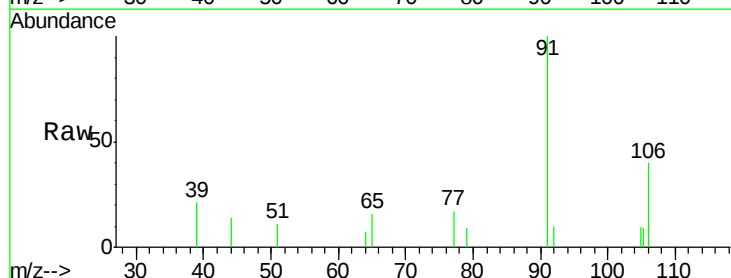
Acq: 08 Mar 2018 13:22

Tgt Ion: 106 Resp: 547

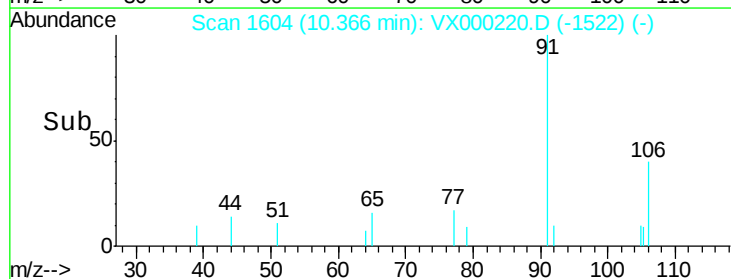
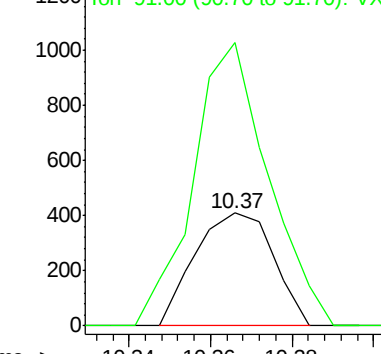
Ion Ratio Lower Upper

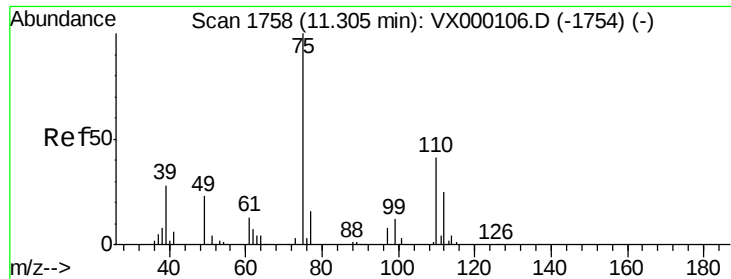
106 100

91 240.4 161.6 242.4



Abundance Ion 106.00 (105.70 to 106.70): VX000106.D (-1599) (-)





#72

1,2,3-Trichloropropane

Concen: 14.204 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

Instrument :

MSVOA_X

ClientSampleId :

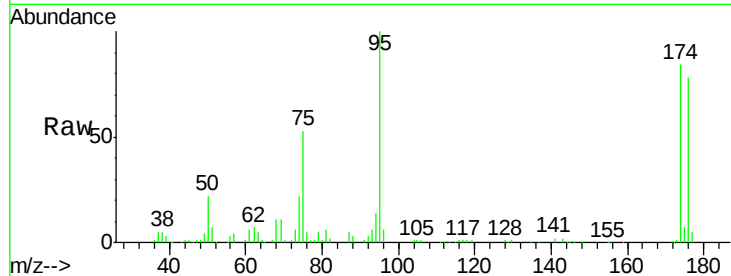
001M-WILLETS-PT-BLVD(MAR)

Tot Ion: 75 Resp: 29669

Ion Ratio Lower Upper

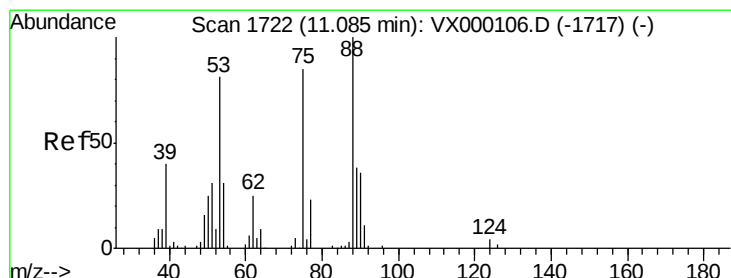
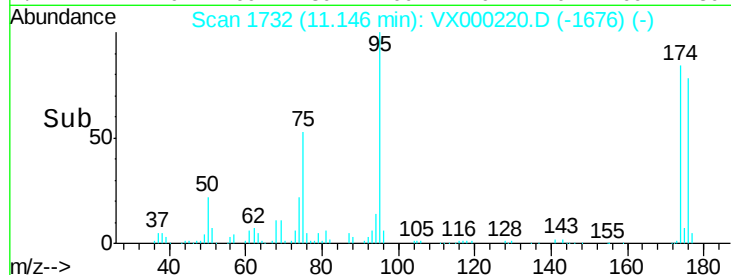
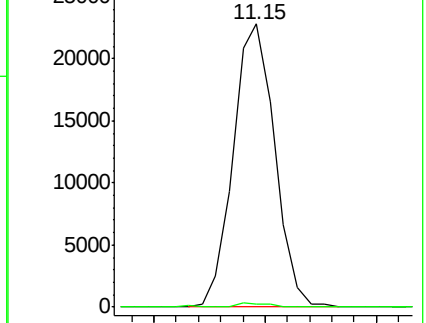
75 100

77 1.2 0.0 85.8



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#77

t-1,4-Dichloro-2-butene

Concen: 40.167 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

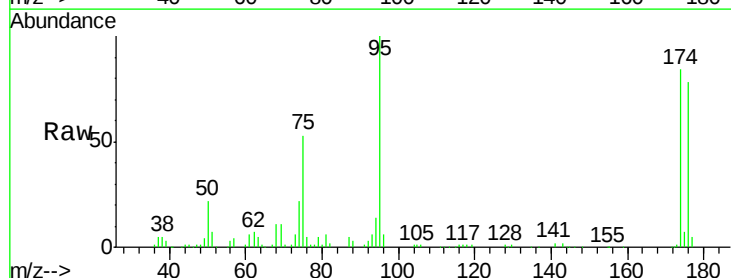
Tgt Ion: 75 Resp: 29669

Ion Ratio Lower Upper

75 100

53 0.0 47.8 143.3#

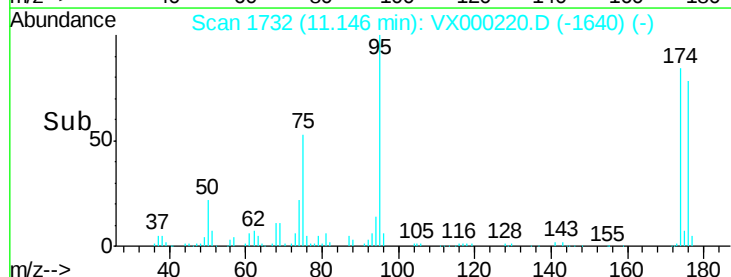
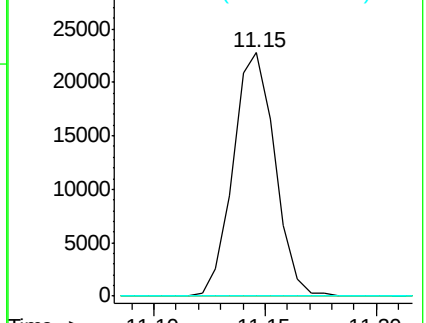
89 0.0 22.3 66.8#

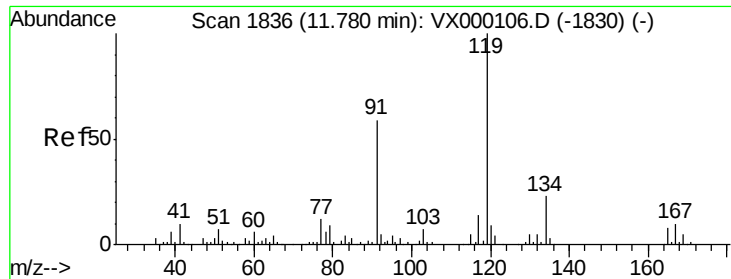


Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0





#79

tert-butylbenzene

Concen: 1.305 ug/l

RT: 12.07 min Scan# 1884

Delta R.T. 0.29 min

Lab File: VX000220.D

Acq: 08 Mar 2018 13:22

Instrument :

MSVOA_X

ClientSampleId :

001M-WILLETS-PT-BLVD(MAR)

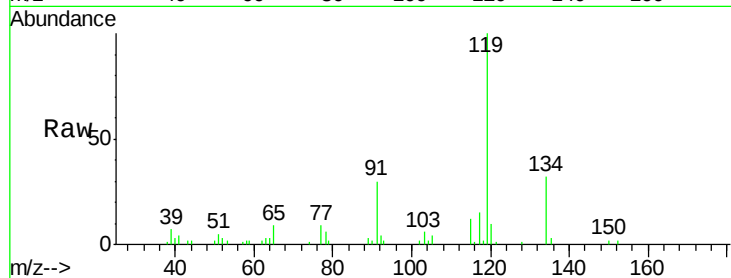
Tot Ion:119 Resp: 7447

Ion Ratio Lower Upper

119 100

91 28.9 0.0 51.6

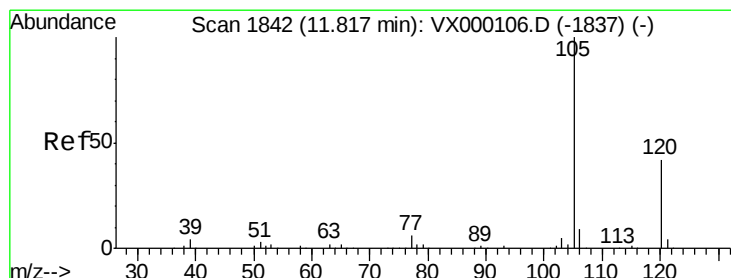
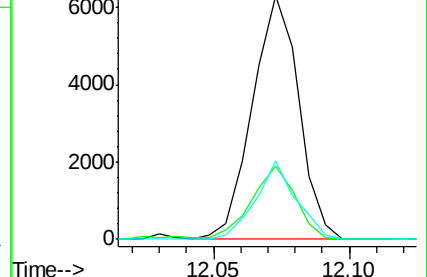
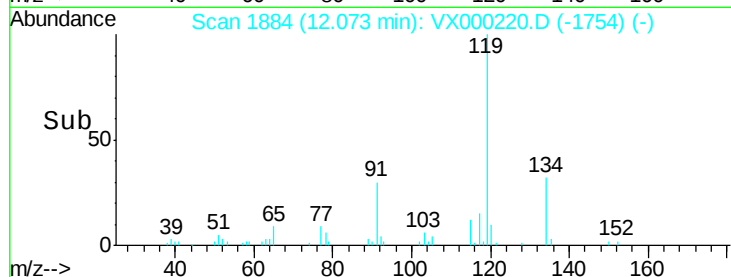
134 27.9 0.0 60.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 0.420 ug/l

RT: 11.82 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VX000220.D

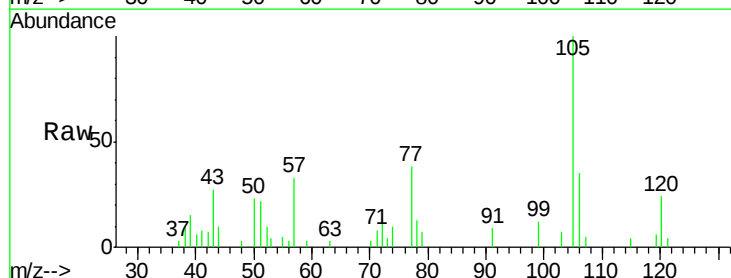
Acq: 08 Mar 2018 13:22

Tgt Ion:105 Resp: 2457

Ion Ratio Lower Upper

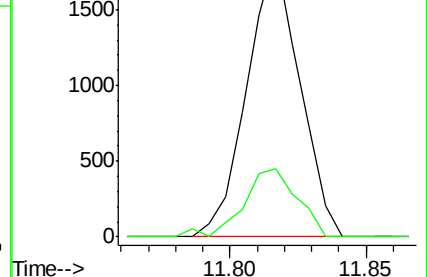
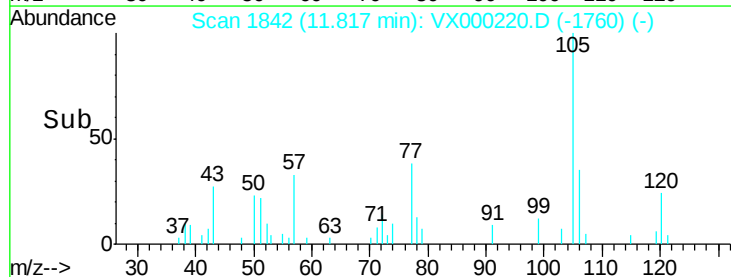
105 100

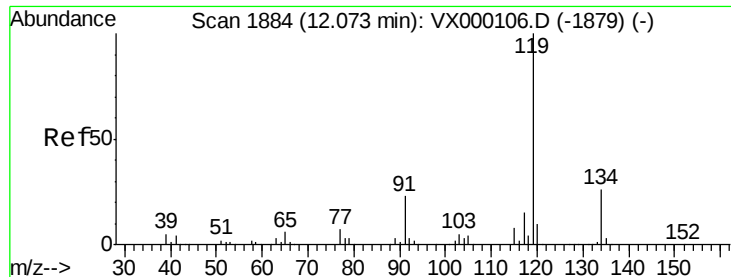
120 24.1 0.0 93.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

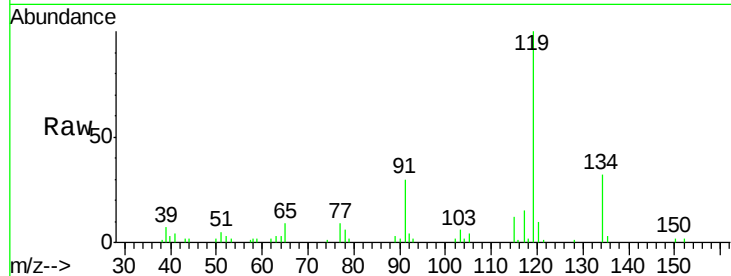




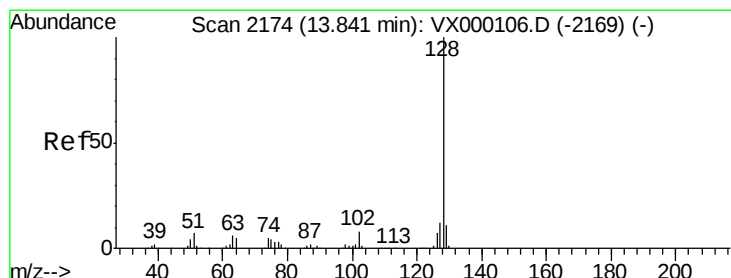
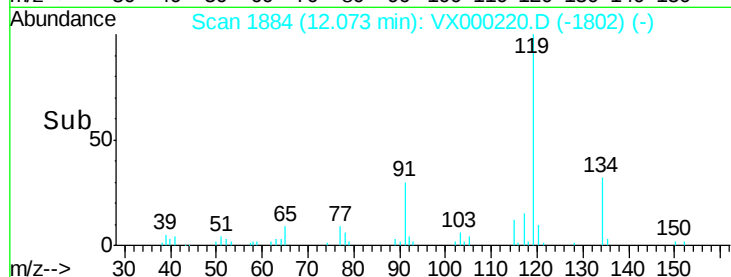
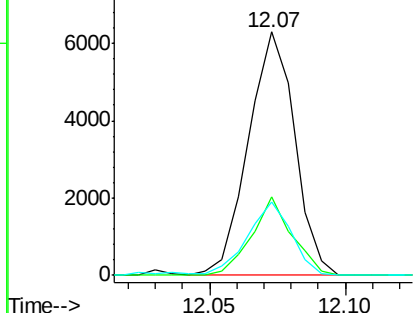
#82
p-Isopropyltoluene
Concen: 1.183 ug/l
RT: 12.07 min Scan# 1884
Delta R.T. 0.00 min
Lab File: VX000220.D
Acq: 08 Mar 2018 13:22

Instrument :
MSVOA_X
ClientSampleId :
001M-WILLETS-PT-BLVD(MAR)

Tot Ion:119 Resp: 7447
Ion Ratio Lower Upper
119 100
134 27.9 0.0 54.4
91 28.9 0.0 46.6

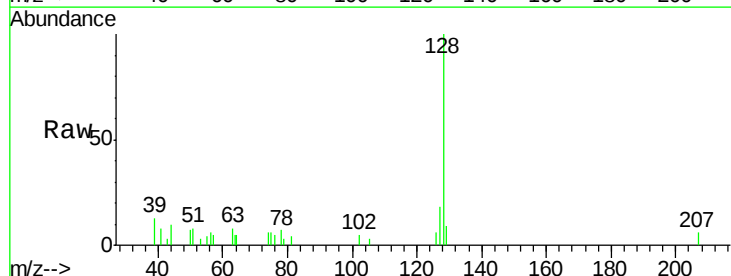


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V



#91
Naphthalene
Concen: 0.285 ug/l
RT: 13.85 min Scan# 2175
Delta R.T. 0.01 min
Lab File: VX000220.D
Acq: 08 Mar 2018 13:22

Tgt Ion:128 Resp: 2450
Ion Ratio Lower Upper
128 100
127 11.5 10.5 15.7
129 10.6 9.0 13.6



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

