

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090618\
 Data File : VN051038.D
 Acq On : 6 Sep 2018 17:43
 Operator : MD\SY
 Sample : J4817-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001M-WILLETS-PT-BLVD

Quant Time: Sep 07 00:56:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	133496	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	667651	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	593408	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		8.03	65	257128	30.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.60%	
60) 4-Bromofluorobenzene		12.40	95	237472	26.91	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.70%	
63) Toluene-d8		10.09	98	811439	29.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.73%	

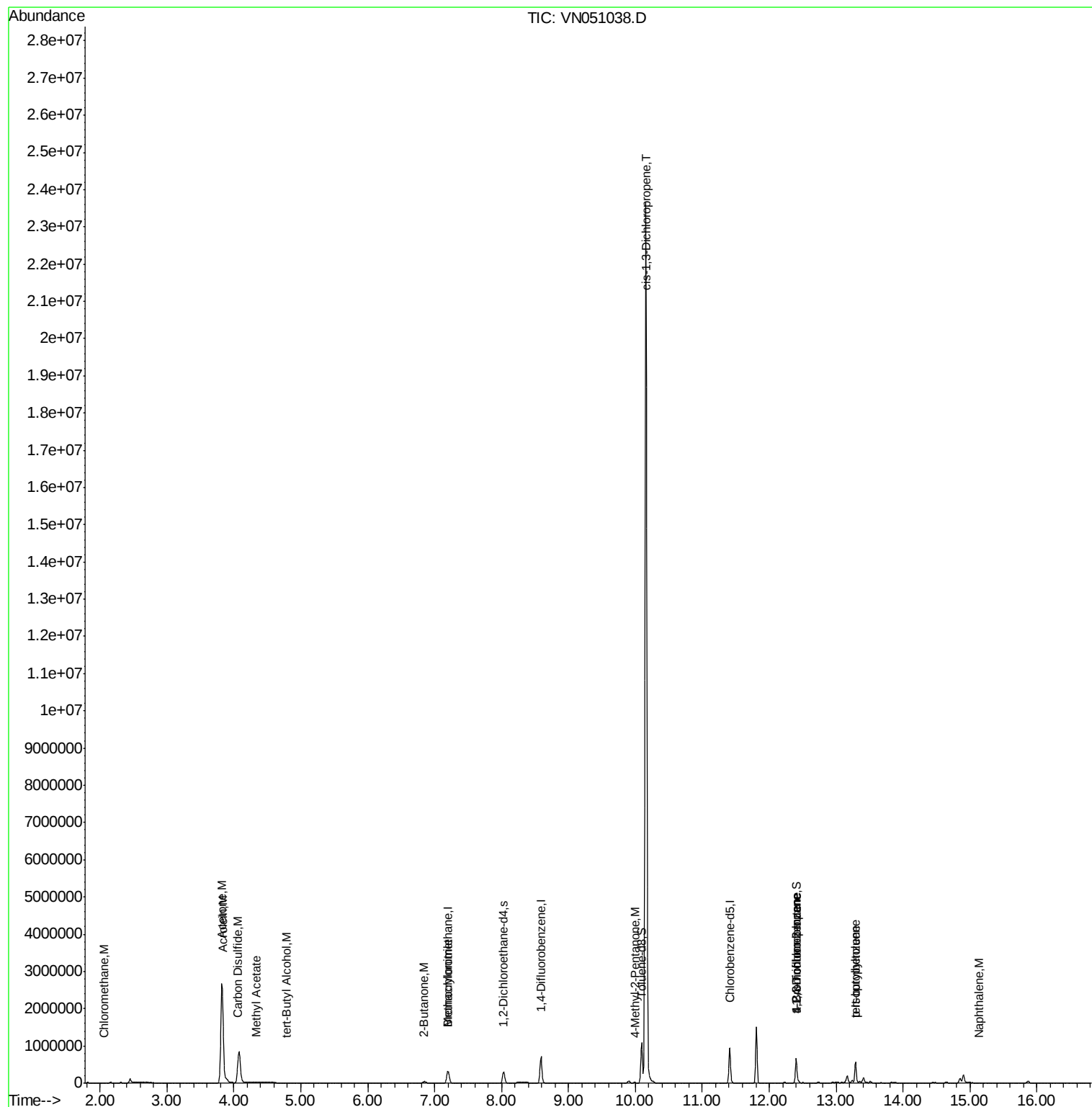
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	2.06	50	2049	0.21	ug/l	99
12) Methyl Acetate	4.33	43	11420	1.37	ug/l #	85
13) Acrolein	3.84	56	440	2.38	ug/l	95
15) Acetone	3.82	58	1550014	2147.85	ug/l	95
16) Carbon Disulfide	4.05	76	6562	0.30	ug/l #	94
23) tert-Butyl Alcohol	4.79	59	176	0.29	ug/l #	100
30) 2-Butanone	6.84	43	64976	21.13	ug/l #	78
35) Methacrylonitrile	7.21	41	1881	0.56	ug/l #	53
49) cis-1,3-Dichloropropene	10.16	75	116588	10.10	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	16501	2.43	ug/l	97
72) 1,2,3-Trichloropropane	12.40	75	109247	13.96	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	109247	49.00	ug/l #	13
79) tert-butylbenzene	13.29	119	306074	12.87	ug/l	62
82) p-Isopropyltoluene	13.29	119	306074	11.40	ug/l	99
91) Naphthalene	15.14	128	2958	8.72	ug/l #	80

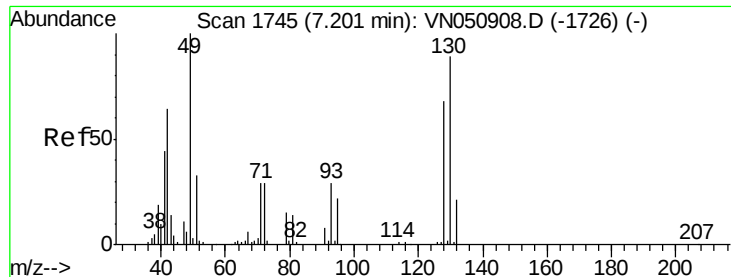
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 29 01:38:44 2018
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#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051038.D

Acq: 6 Sep 2018 17:43

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVD

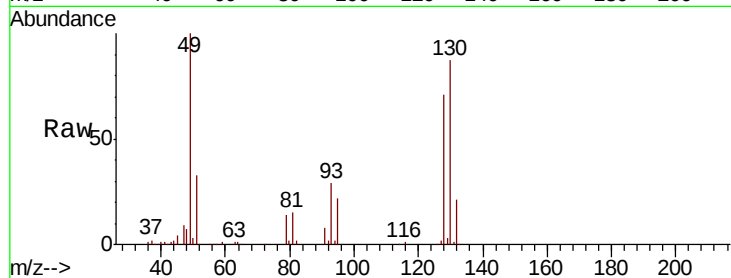
Tot Ion:128 Resp: 133496

Ion Ratio Lower Upper

128 100

49 147.1 0.0 380.3

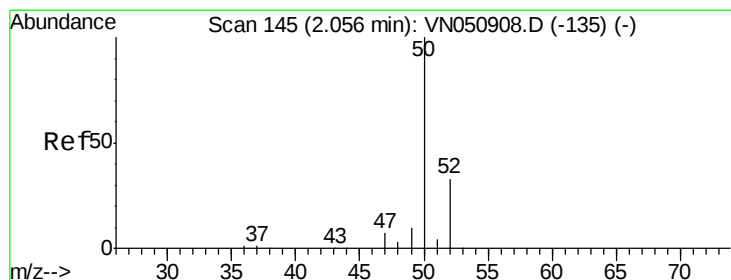
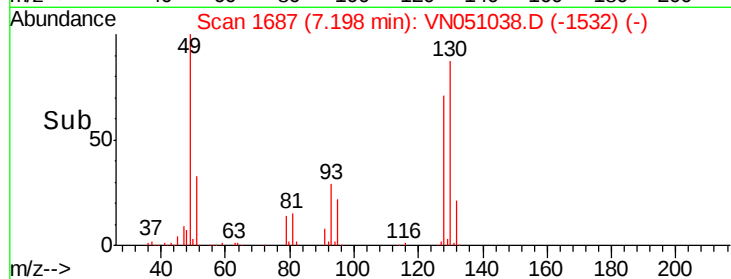
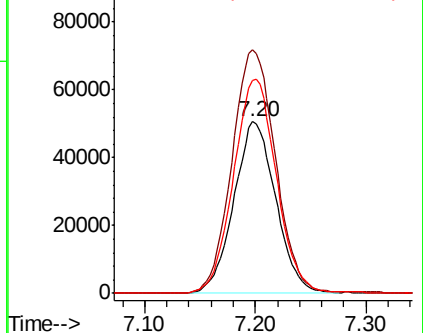
130 127.5 0.0 325.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.21 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051038.D

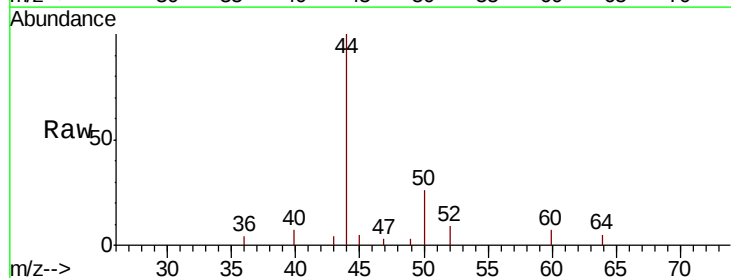
Acq: 6 Sep 2018 17:43

Tgt Ion: 50 Resp: 2049

Ion Ratio Lower Upper

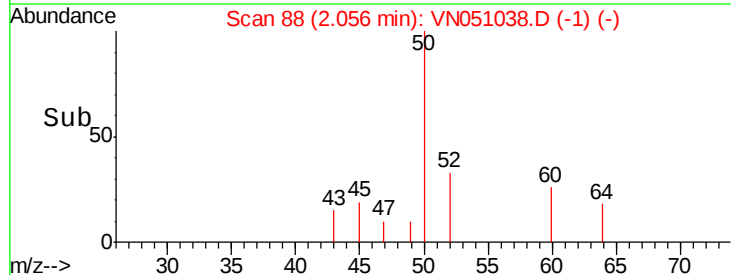
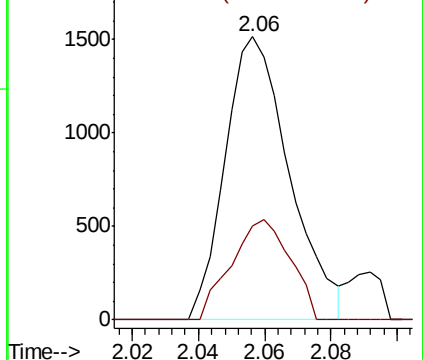
50 100

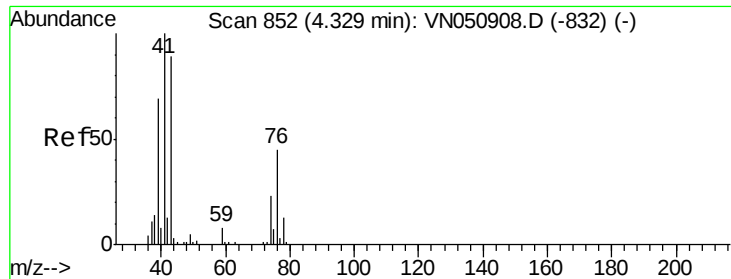
52 33.3 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

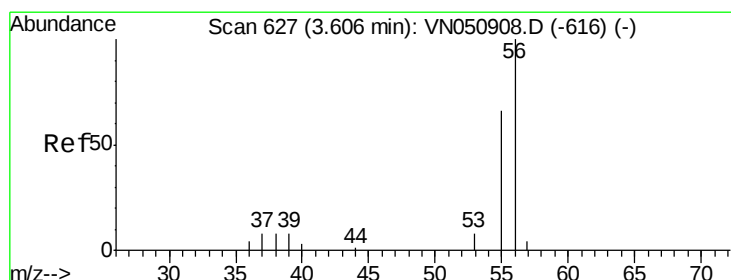
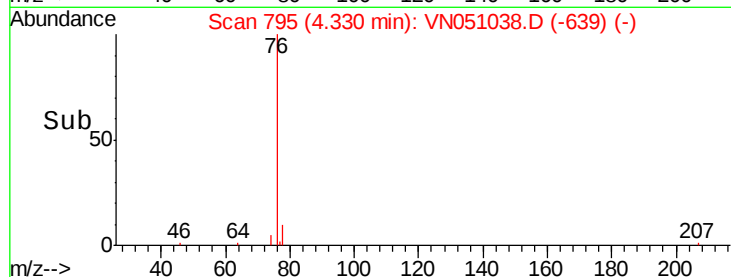
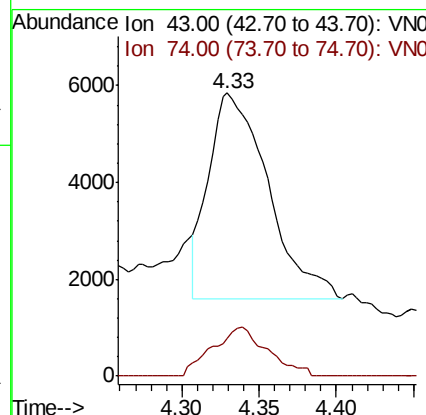
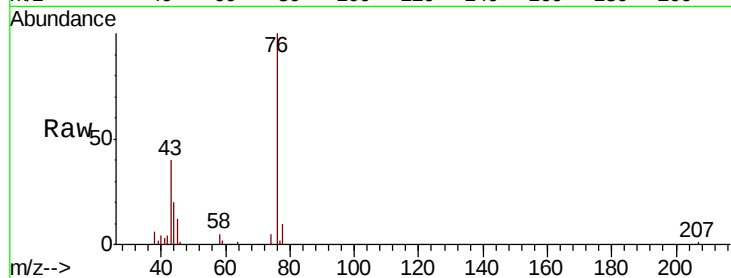




#12
Methvl Acetate
Concen: 1.37 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051038.D
Acq: 6 Sep 2018 17:43

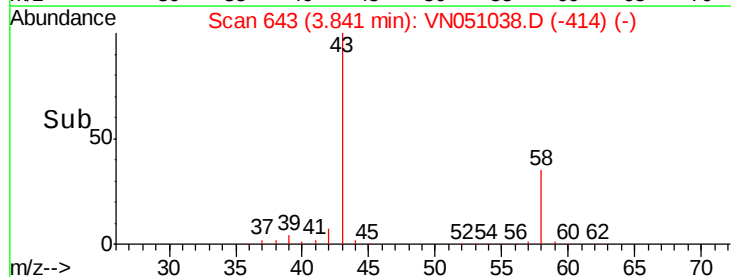
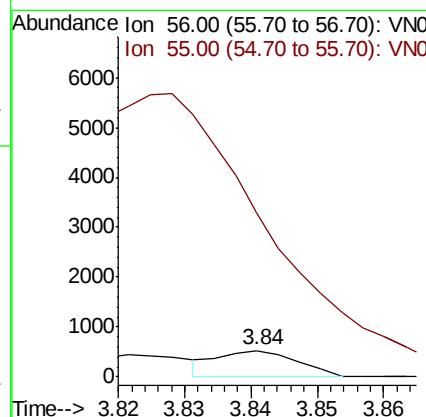
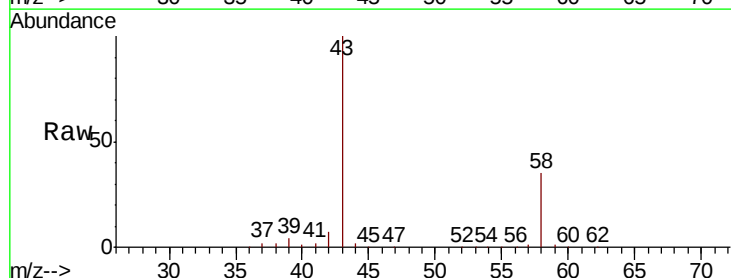
Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVD

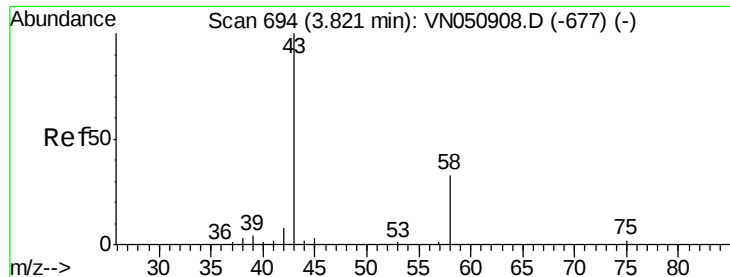
Tot Ion: 43 Resp: 11420
Ion Ratio Lower Upper
43 100
74 18.1 20.6 31.0#



#13
Acrolein
Concen: 2.38 ug/l
RT: 3.84 min Scan# 643
Delta R.T. 0.23 min
Lab File: VN051038.D
Acq: 6 Sep 2018 17:43

Tgt Ion: 56 Resp: 440
Ion Ratio Lower Upper
56 100
55 78.4 59.1 88.7





#15

Acetone

Concen: 2147.85 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051038.D

Acq: 6 Sep 2018 17:43

Instrument :

MSVOA_N

ClientSampleId :

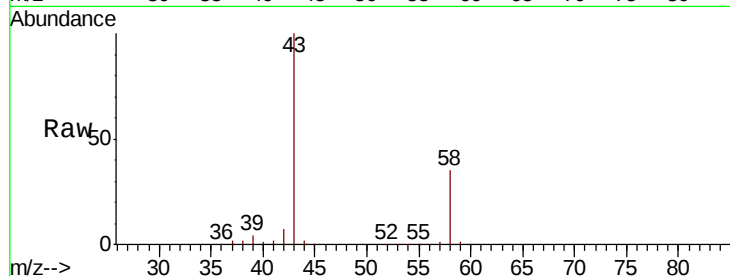
001M-WILLETS-PT-BLVD

Tot Ion: 58 Resp: 1550014

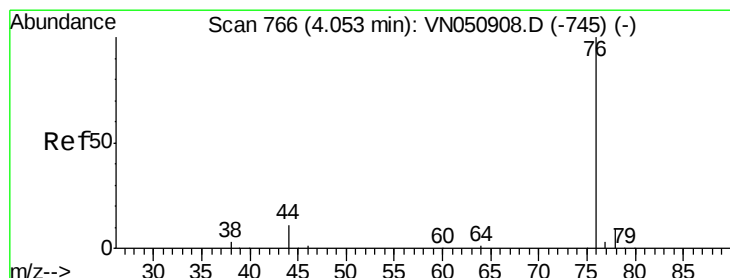
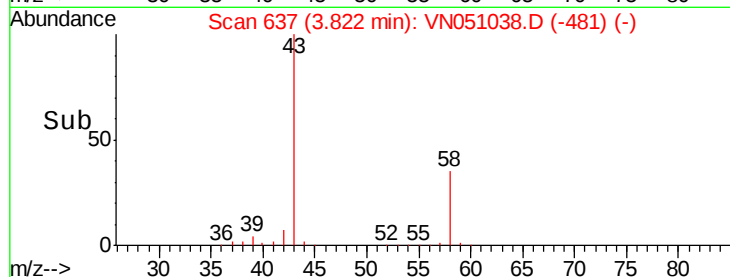
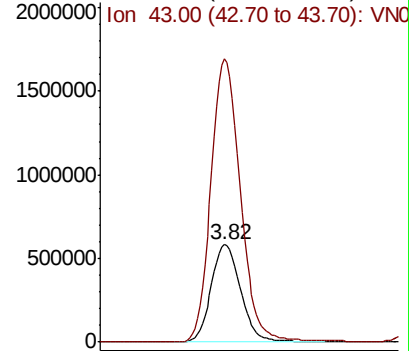
Ion Ratio Lower Upper

58 100

43 289.6 239.4 359.0



Abundance Ion 58.00 (57.70 to 58.70): VN051038.D (-481) (-)



#16

Carbon Disulfide

Concen: 0.30 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN051038.D

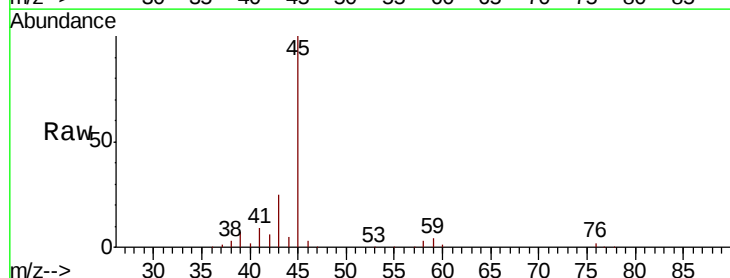
Acq: 6 Sep 2018 17:43

Tgt Ion: 76 Resp: 6562

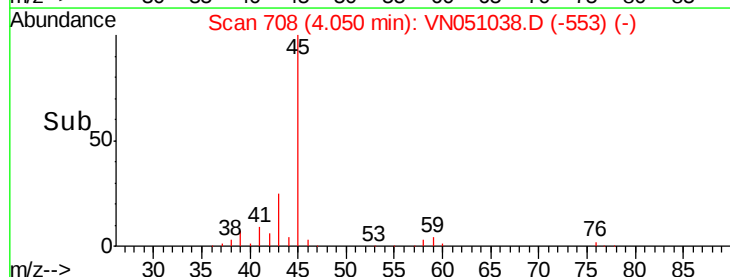
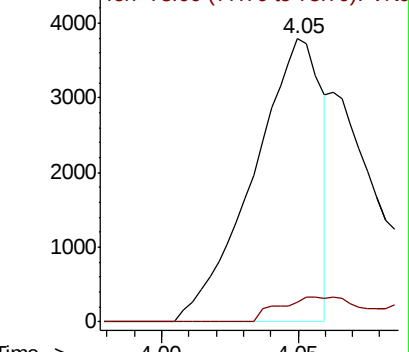
Ion Ratio Lower Upper

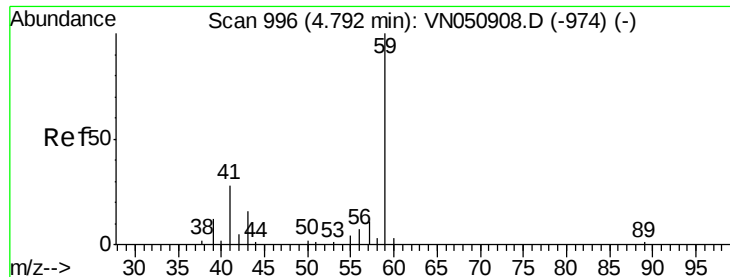
76 100

78 7.0 7.3 10.9#



Abundance Ion 76.00 (75.70 to 76.70): VN051038.D (-553) (-)





#23

tert-Butyl Alcohol

Concen: 0.29 ug/l

RT: 4.79 min Scan# 938

Delta R.T. -0.00 min

Lab File: VN051038.D

Acq: 6 Sep 2018 17:43

Instrument :

MSVOA_N

ClientSampleId :

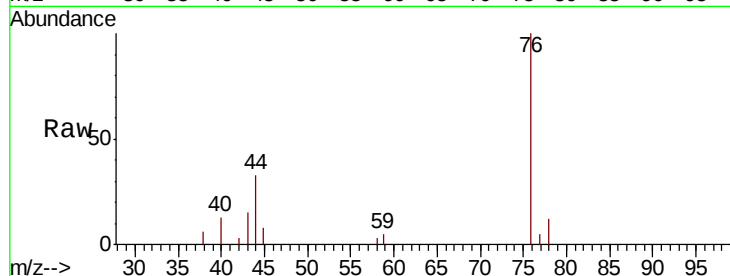
001M-WILLETS-PT-BLVD

Tot Ion: 59 Resp: 176

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



Abundance Ion 59.00 (58.70 to 59.70): VN051038.D (-974) (-)

Ion 52.00 (51.70 to 52.70): VN051038.D (-974) (-)

4.79

200

150

100

50

0

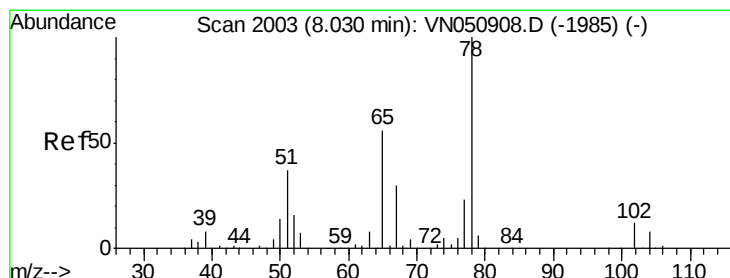
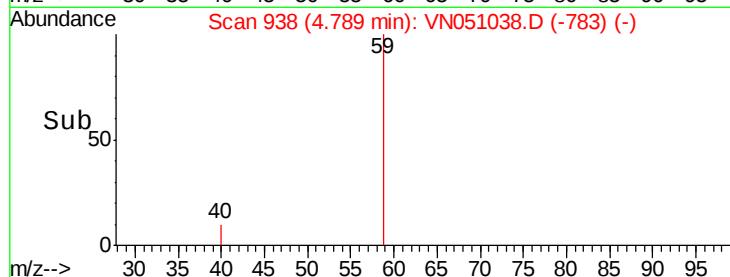
4.77

4.78

4.79

4.80

Time-->



#27

1,2-Dichloroethane-d4

Concen: 30.18 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051038.D

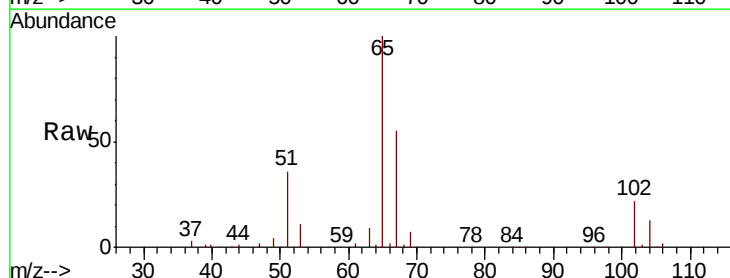
Acq: 6 Sep 2018 17:43

Tgt Ion: 65 Resp: 257128

Ion Ratio Lower Upper

65 100

67 54.8 43.7 65.5



Abundance Ion 65.00 (64.70 to 65.70): VN051038.D (-1985) (-)

Ion 67.00 (66.70 to 67.70): VN051038.D (-1985) (-)

8.03

120000

100000

80000

60000

40000

20000

0

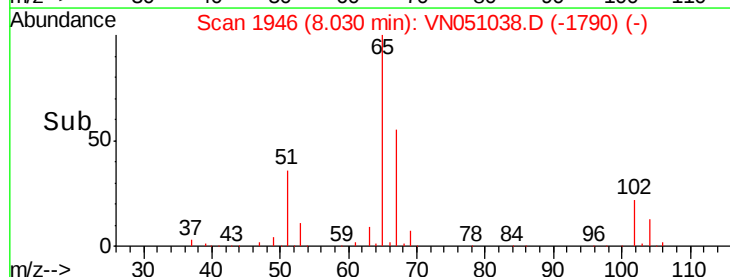
7.95

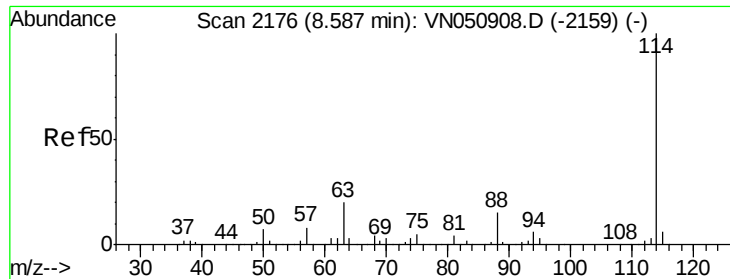
8.00

8.05

8.10

Time-->

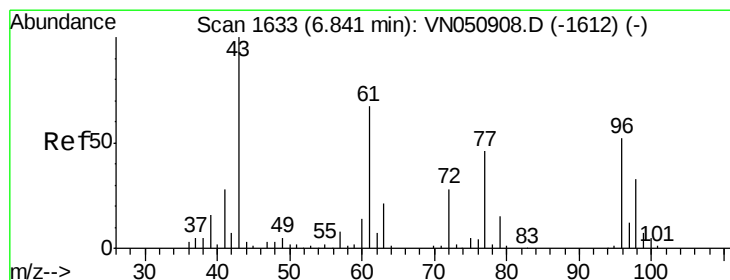
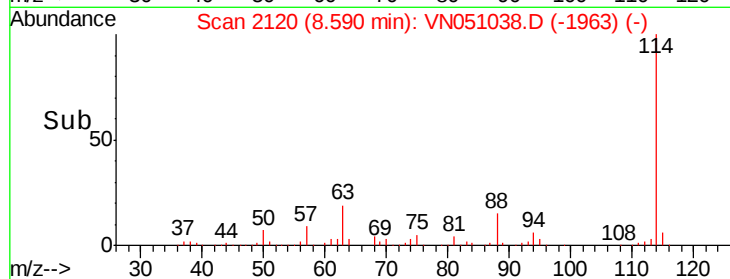
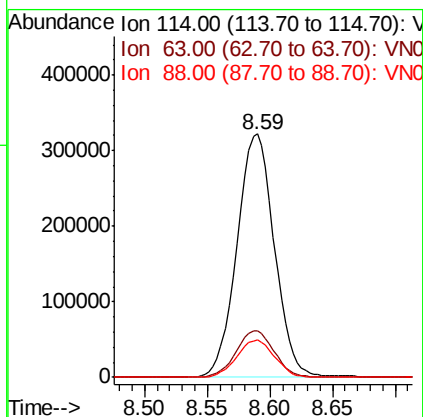
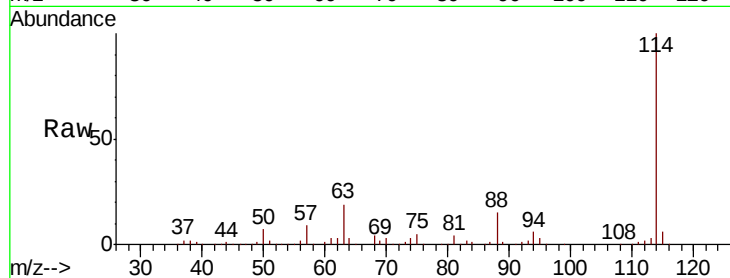




#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051038.D
 Acq: 6 Sep 2018 17:43

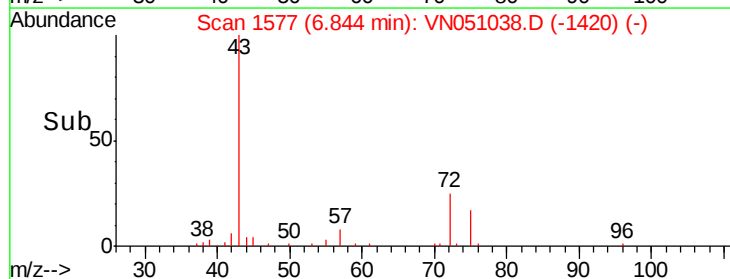
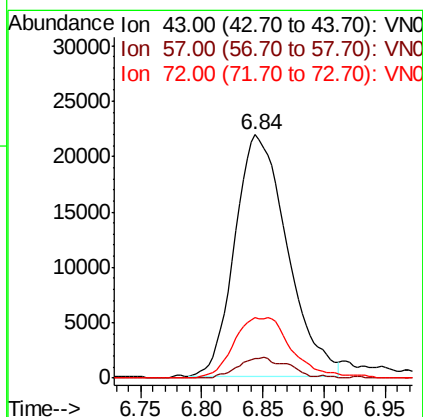
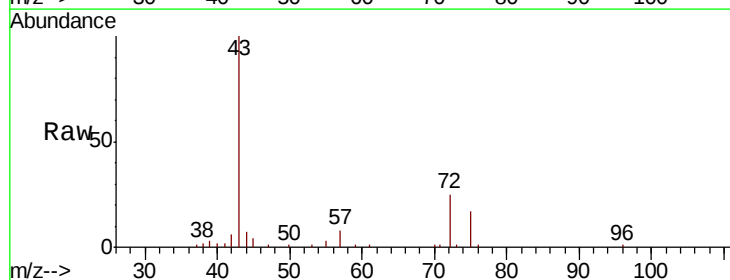
Instrument :
 MSVOA_N
 ClientSampleId :
 001M-WILLETS-PT-BLVD

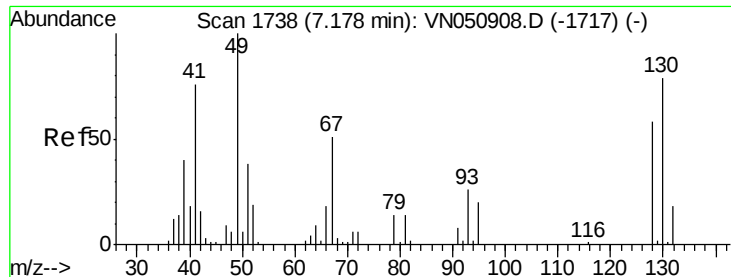
Tot Ion:114 Resp: 667651
 Ion Ratio Lower Upper
 114 100
 63 19.5 15.6 23.4
 88 15.5 12.2 18.4



#30
 2-Butanone
 Concen: 21.13 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VN051038.D
 Acq: 6 Sep 2018 17:43

Tgt Ion: 43 Resp: 64976
 Ion Ratio Lower Upper
 43 100
 57 5.9 6.9 10.3#
 72 14.4 22.8 34.2#

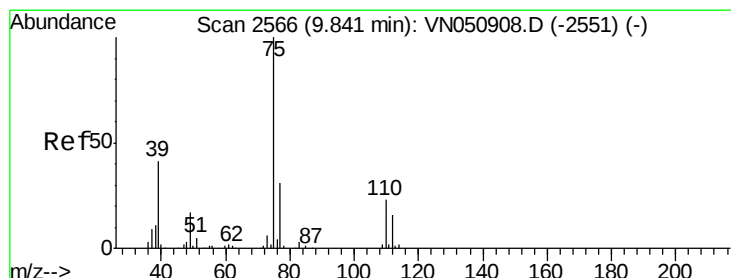
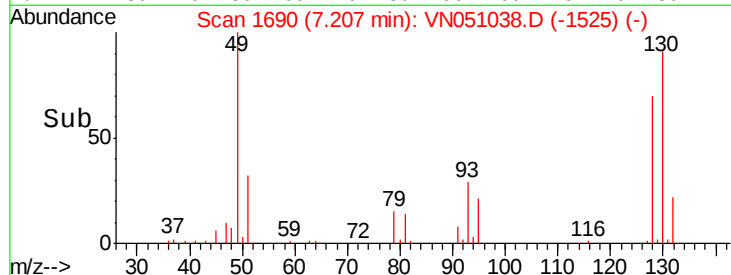
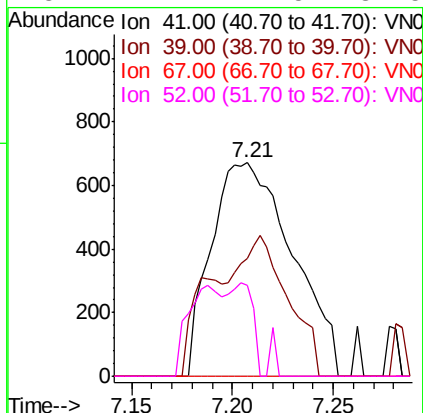
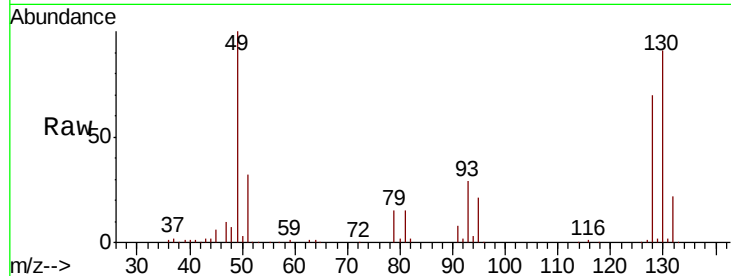




#35
Methacrylonitrile
Concen: 0.56 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.03 min
Lab File: VN051038.D
Acq: 6 Sep 2018 17:43

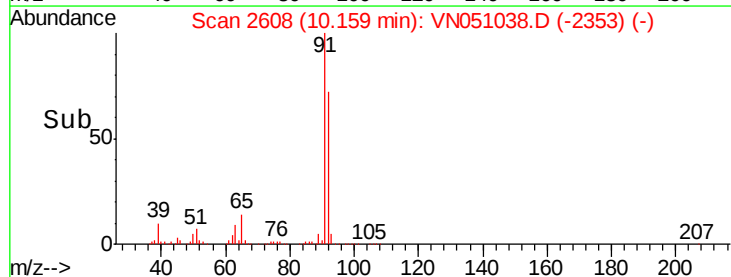
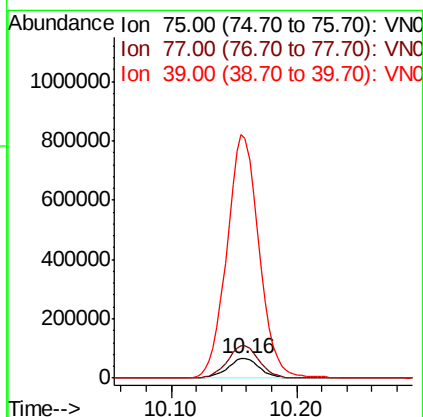
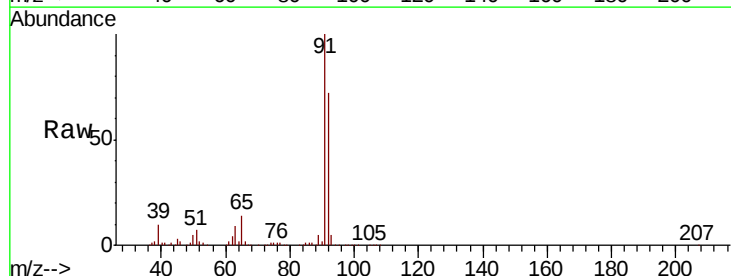
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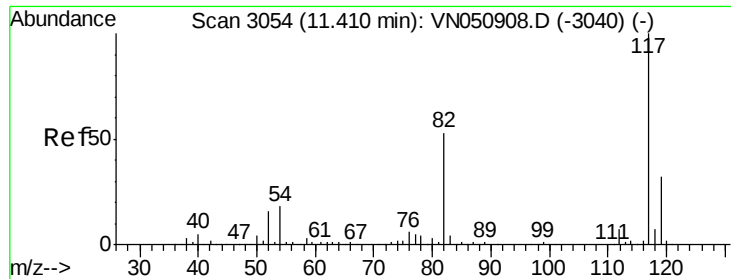
Tot Ion: 41 Resp: 1881
Ion Ratio Lower Upper
41 100
39 55.1 26.2 78.5
67 0.0 33.9 101.6#
52 42.4 12.5 37.5#



#49
cis-1,3-Dichloropropene
Concen: 10.10 ug/l
RT: 10.16 min Scan# 2608
Delta R.T. 0.32 min
Lab File: VN051038.D
Acq: 6 Sep 2018 17:43

Tgt Ion: 75 Resp: 116588
Ion Ratio Lower Upper
75 100
77 165.4 25.0 37.4#
39 1242.2 32.9 49.3#

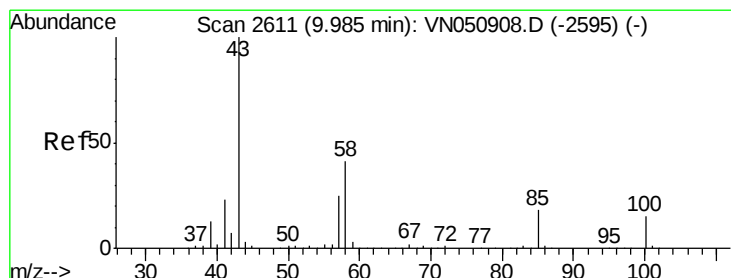
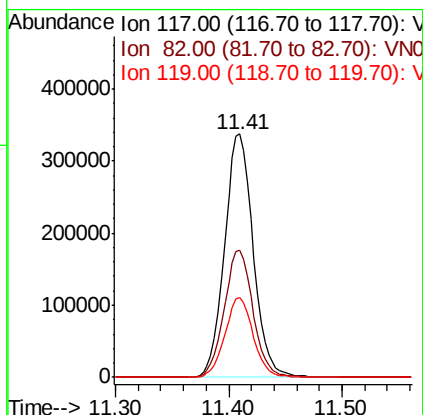
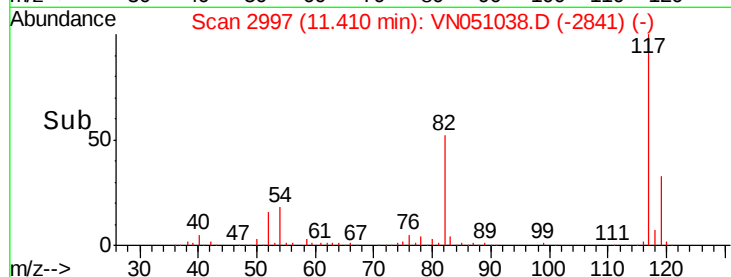
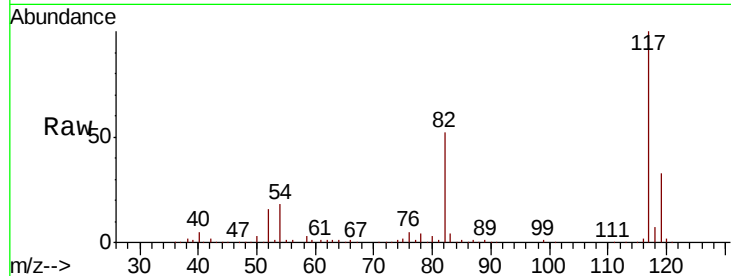




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051038.D
Acq: 6 Sep 2018 17:43

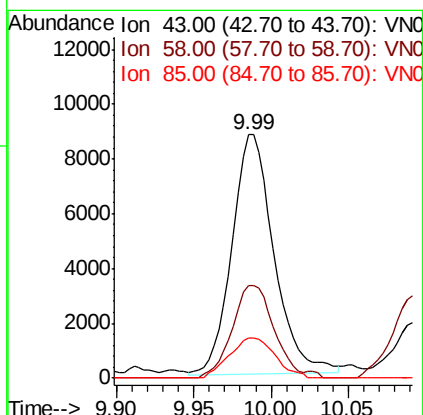
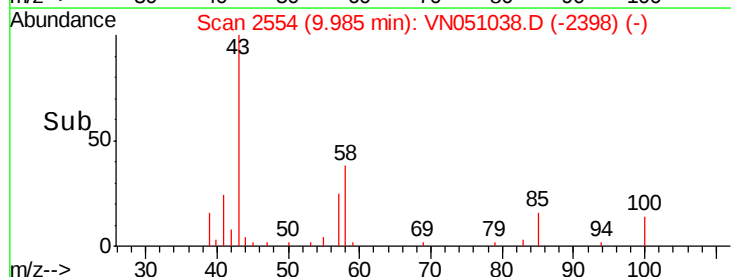
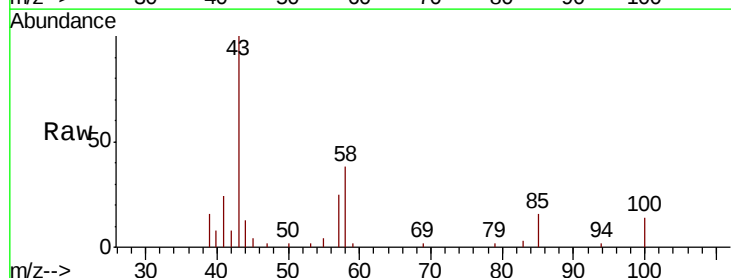
Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVD

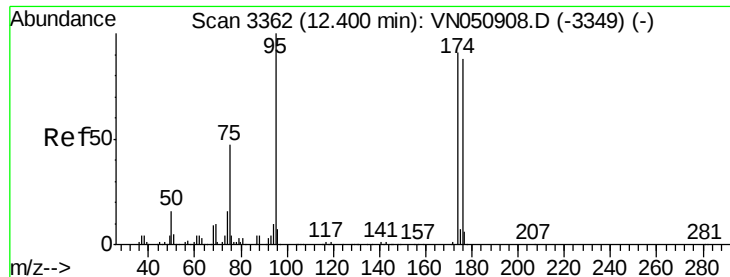
Tot Ion:117 Resp: 593408
Ion Ratio Lower Upper
117 100
82 52.5 42.6 64.0
119 32.5 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 2.43 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051038.D
Acq: 6 Sep 2018 17:43

Tgt Ion: 43 Resp: 16501
Ion Ratio Lower Upper
43 100
58 38.2 32.3 48.5
85 18.2 14.9 22.3





#60

4-Bromofluorobenzene

Concen: 26.91 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051038.D

Acq: 6 Sep 2018 17:43

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVD

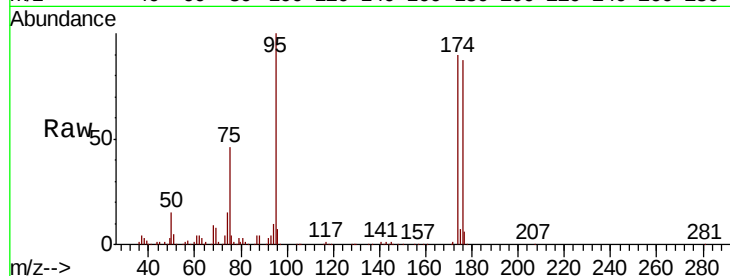
Tot Ion: 95 Resp: 237472

Ion Ratio Lower Upper

95 100

174 92.3 74.6 112.0

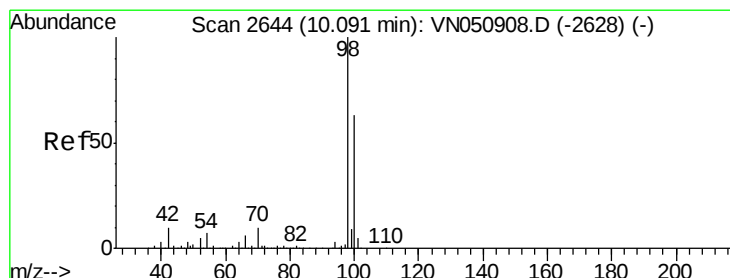
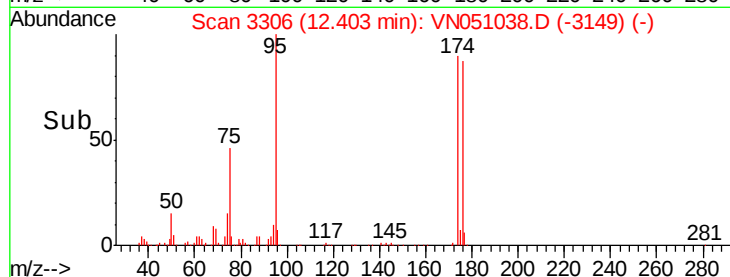
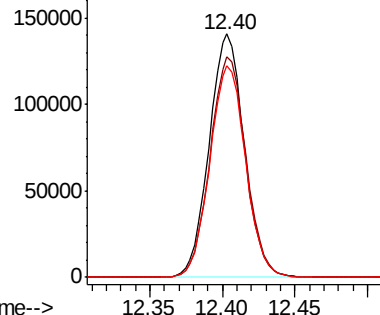
176 88.5 71.5 107.3



Abundance Ion 95.00 (94.70 to 95.70): VN051038.D (-3349) (-)

Ion 174.00 (173.70 to 174.70): VN051038.D (-3349) (-)

Ion 176.00 (175.70 to 176.70): VN051038.D (-3349) (-)



#63

Toluene-d8

Concen: 29.32 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051038.D

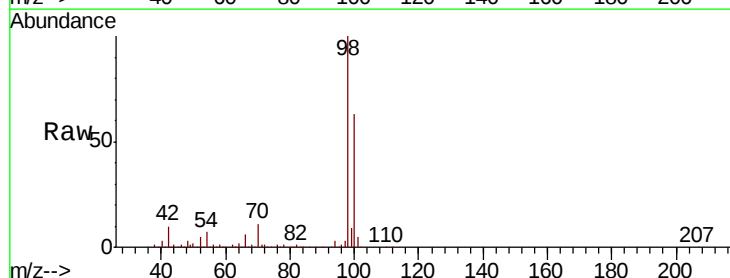
Acq: 6 Sep 2018 17:43

Tgt Ion: 98 Resp: 811439

Ion Ratio Lower Upper

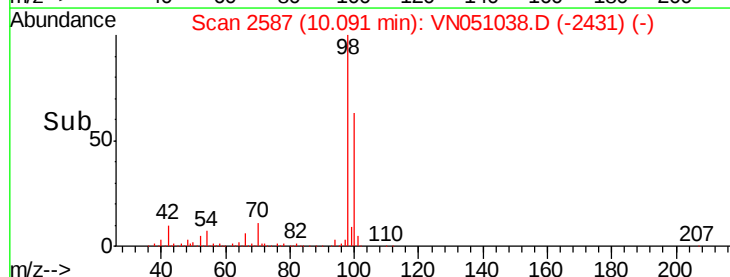
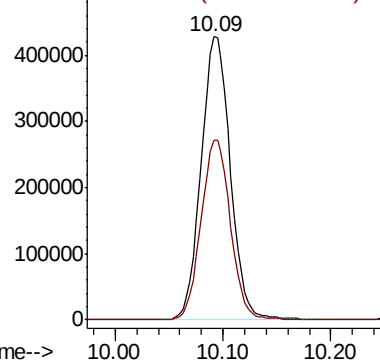
98 100

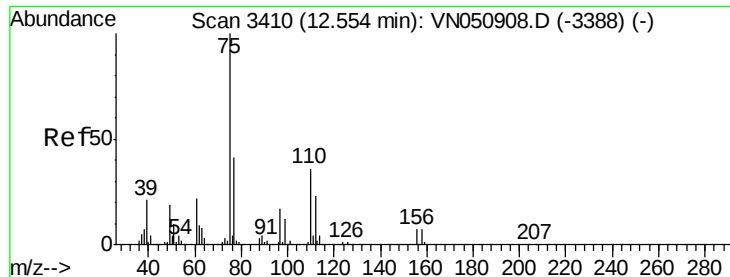
100 63.6 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN051038.D (-2431) (-)

Ion 100.00 (99.70 to 100.70): VN051038.D (-2431) (-)





#72

1,2,3-Trichloropropane

Concen: 13.96 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051038.D

Acq: 6 Sep 2018 17:43

Instrument :

MSVOA_N

ClientSampleId :

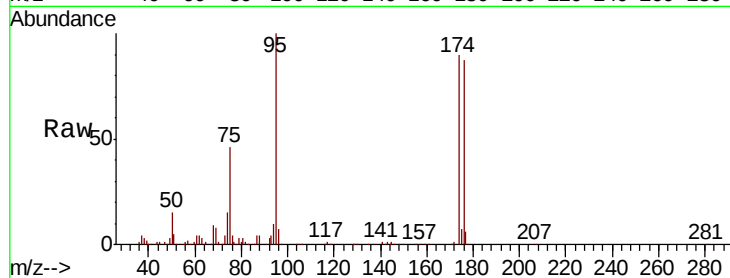
001M-WILLETS-PT-BLVD

Tot Ion: 75 Resp: 109247

Ion Ratio Lower Upper

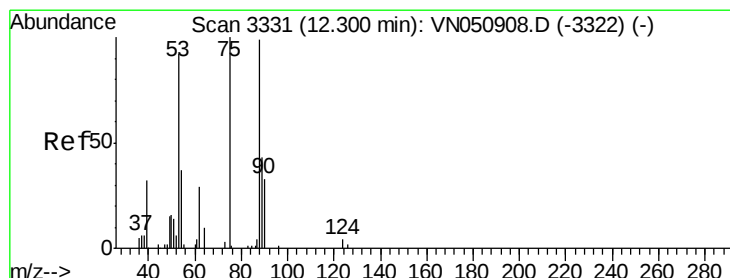
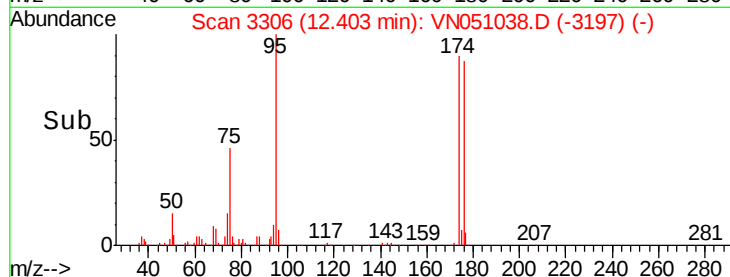
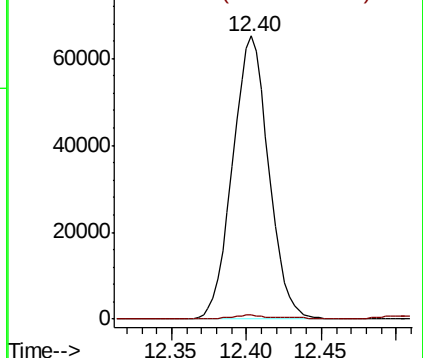
75 100

77 1.4 0.0 301.6



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

t-1,4-Dichloro-2-butene

Concen: 49.00 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051038.D

Acq: 6 Sep 2018 17:43

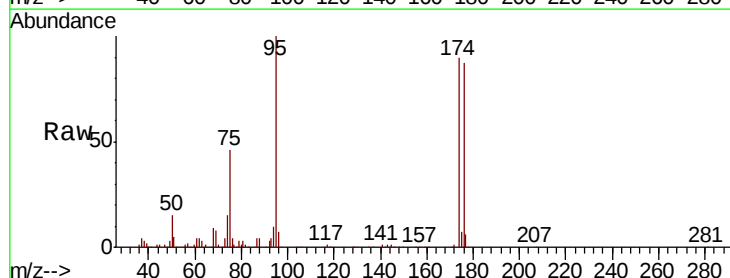
Tgt Ion: 75 Resp: 109247

Ion Ratio Lower Upper

75 100

53 0.0 45.5 136.4#

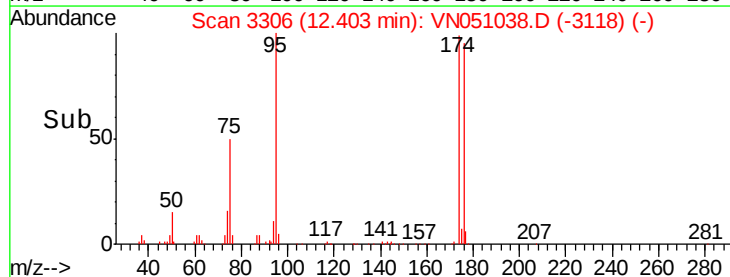
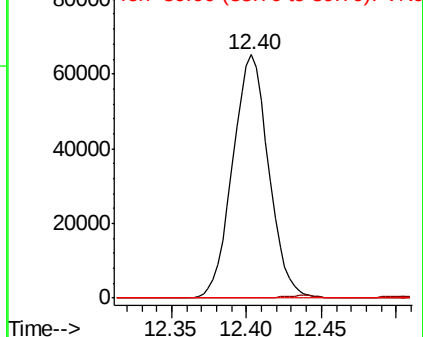
89 0.0 21.9 65.8#

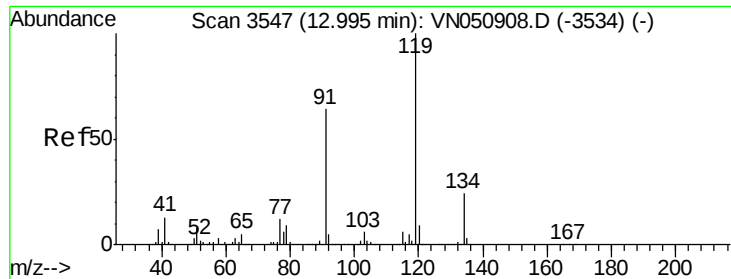


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

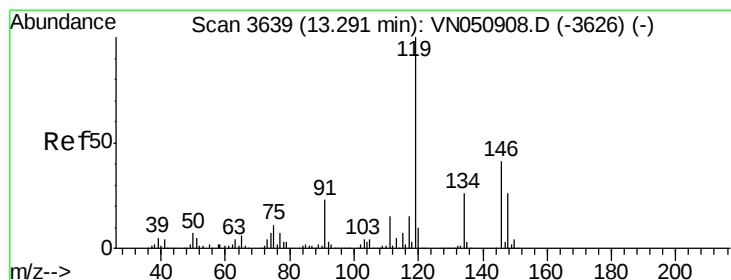
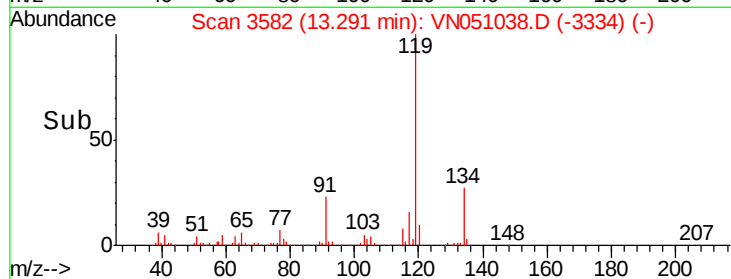
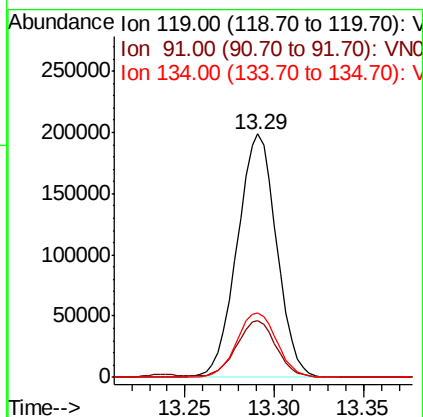
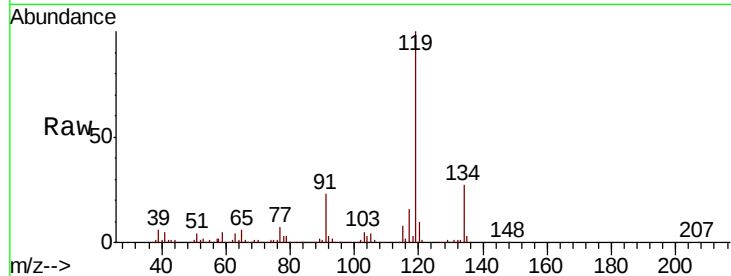




#79
tert-butylbenzene
Concen: 12.87 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.30 min
Lab File: VN051038.D
Acq: 6 Sep 2018 17:43

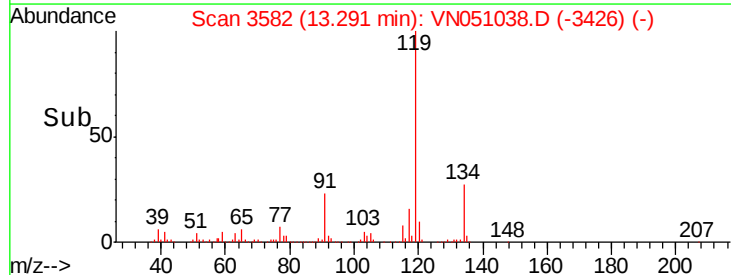
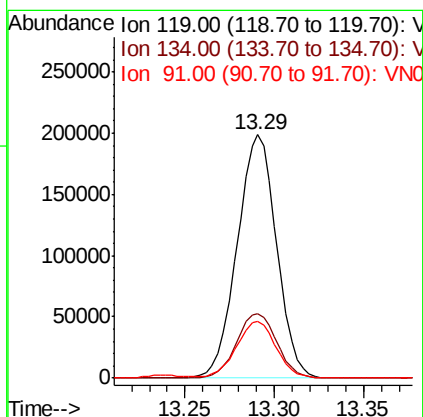
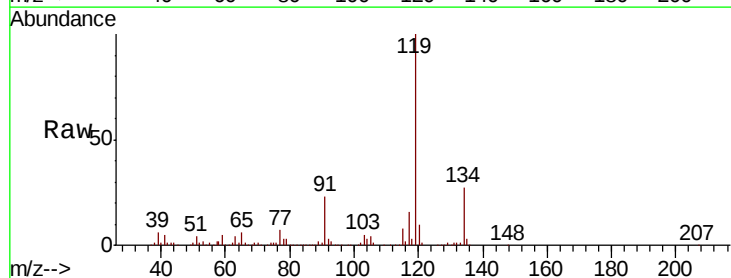
Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVD

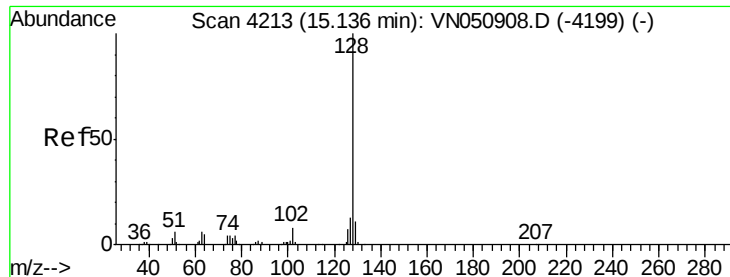
Tot Ion:119 Resp: 306074
Ion Ratio Lower Upper
119 100
91 23.6 0.0 125.6
134 27.1 0.0 48.4



#82
p-Isopropyltoluene
Concen: 11.40 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.00 min
Lab File: VN051038.D
Acq: 6 Sep 2018 17:43

Tgt Ion:119 Resp: 306074
Ion Ratio Lower Upper
119 100
134 27.1 0.0 53.2
91 23.6 0.0 46.0





#91

Naphthalene

Concen: 8.72 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN051038.D

Acq: 6 Sep 2018 17:43

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVD

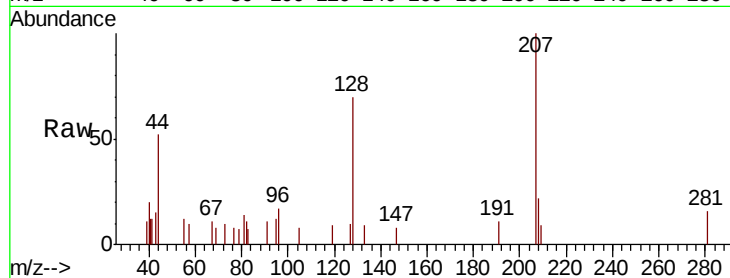
Tot Ion:128 Resp: 2958

Ion Ratio Lower Upper

128 100

127 6.2 10.6 16.0#

129 2.2 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

