

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110719\
 Data File : VN059125.D
 Acq On : 7 Nov 2019 16:38
 Operator : JC/SP
 Sample : K5726-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD-(NOV)

Quant Time: Nov 08 01:11:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	71228	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	393920	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	345885	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.00	65	176448	29.19	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.30%
60) 4-Bromofluorobenzene	12.40	95	155593	25.72	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	85.73%
63) Toluene-d8	10.08	98	490240	30.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.07%

Target Compounds

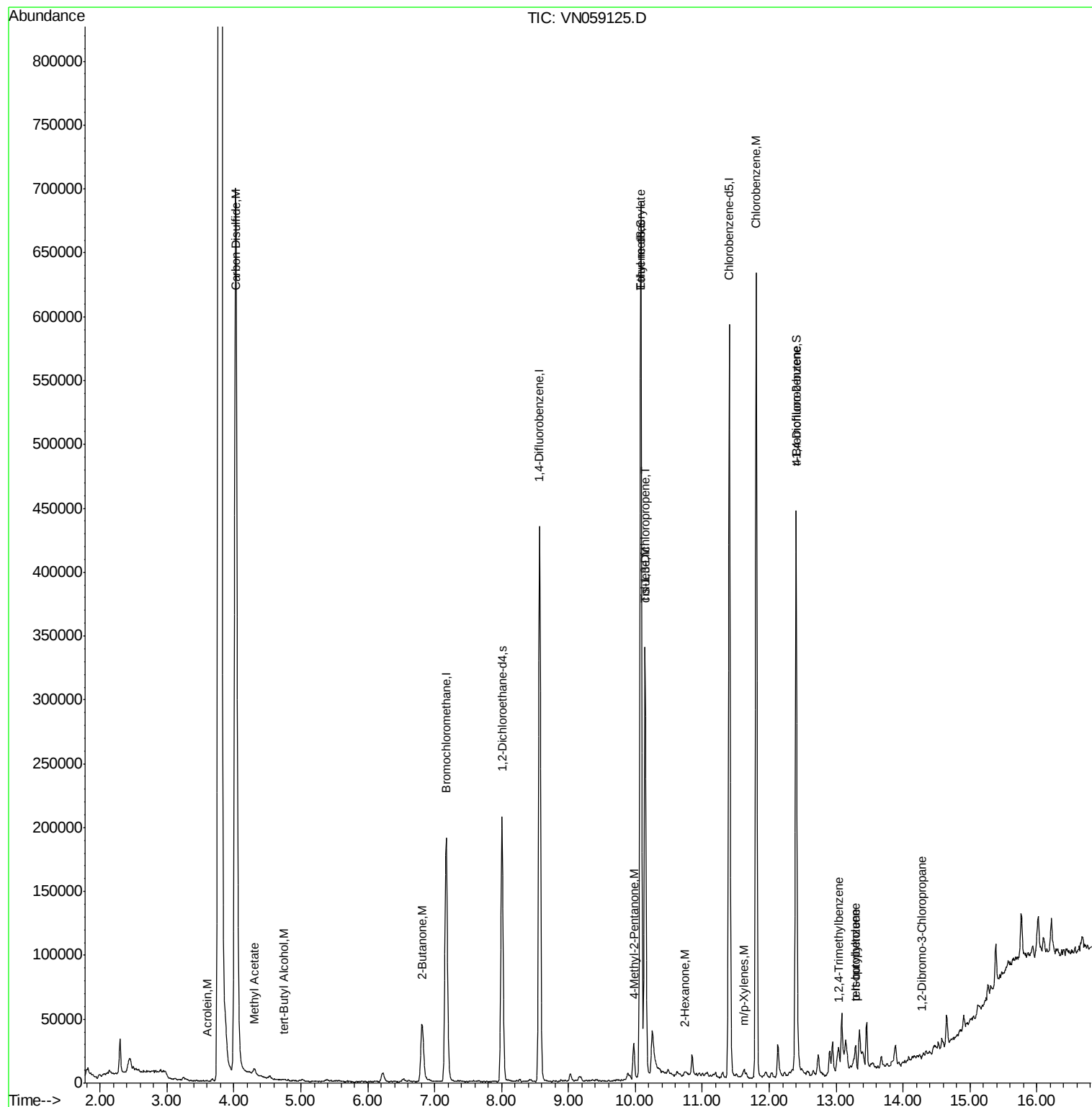
					Ovalue
12) Methyl Acetate	4.30	43	3048	0.511 ug/l	96
13) Acrolein	3.59	56	262	0.398 ug/l #	44
16) Carbon Disulfide	4.03	76	6368	0.586 ug/l #	92
23) tert-Butyl Alcohol	4.76	59	338	0.352 ug/l #	100
30) 2-Butanone	6.81	43	88453	25.243 ug/l #	95
49) cis-1,3-Dichloropropene	10.15	75	1637	0.209 ug/l #	1
51) Ethyl methacrylate	10.08	69	1785	0.248 ug/l	88
58) 4-Methyl-2-Pentanone	9.97	43	18828	2.984 ug/l	98
59) 2-Hexanone	10.75	43	1924	0.389 ug/l #	86
62) Toluene	10.15	91	261189	14.038 ug/l	99
64) Chlorobenzene	11.80	112	3057	0.269 ug/l #	43
67) m/p-Xylenes	11.61	106	1574	0.204 ug/l	97
77) t-1,4-Dichloro-2-butene	12.40	75	78589	33.570 ug/l #	10
79) tert-butylbenzene	13.29	119	6025	0.409 ug/l	74
80) 1,2,4-Trimethylbenzene	13.04	105	7705	0.449 ug/l	69
82) p-Isopropyltoluene	13.29	119	6025	0.338 ug/l	82
88) 1,2-Dibromo-3-Chloropropan	14.28	75	392	0.260 ug/l #	7

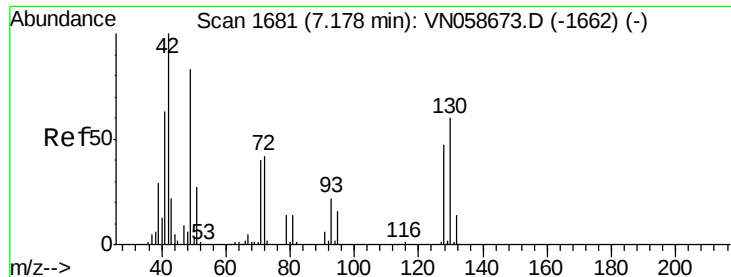
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 11 04:26:47 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN059125.D

Acq: 7 Nov 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD-(NOV)

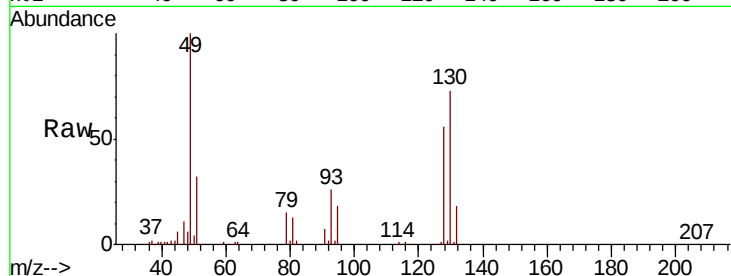
Tot Ion:128 Resp: 71228

Ion Ratio Lower Upper

128 100

49 181.2 0.0 453.5

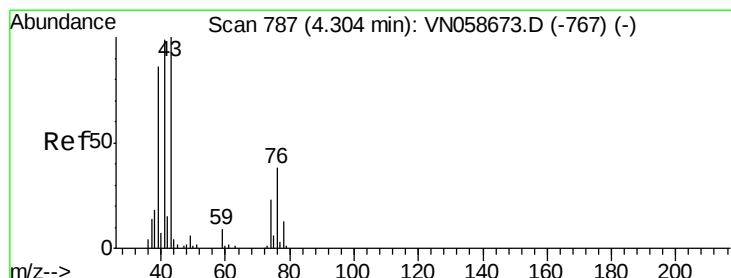
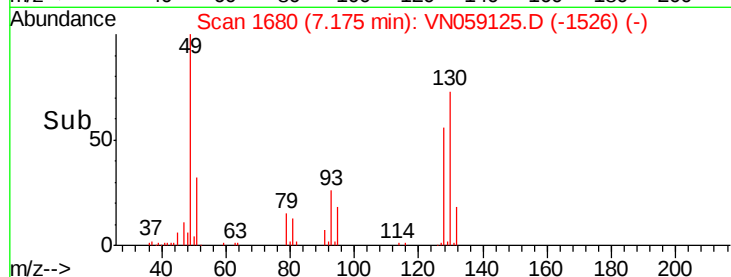
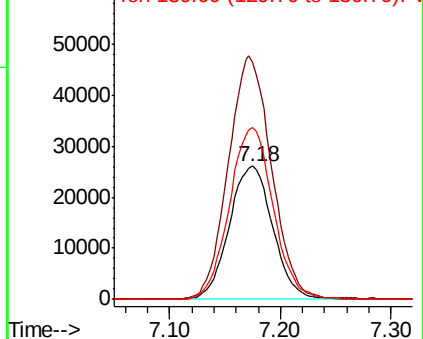
130 130.0 0.0 314.2



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



#12

Methyl Acetate

Concen: 0.511 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN059125.D

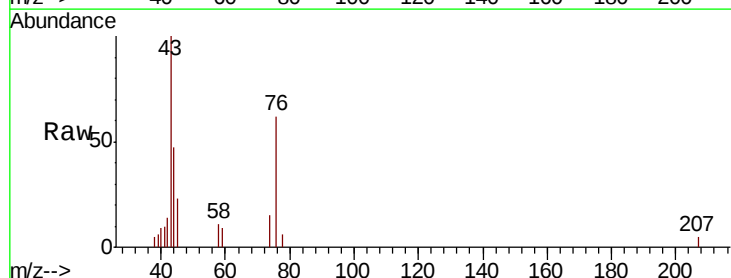
Acq: 7 Nov 2019 16:38

Tgt Ion: 43 Resp: 3048

Ion Ratio Lower Upper

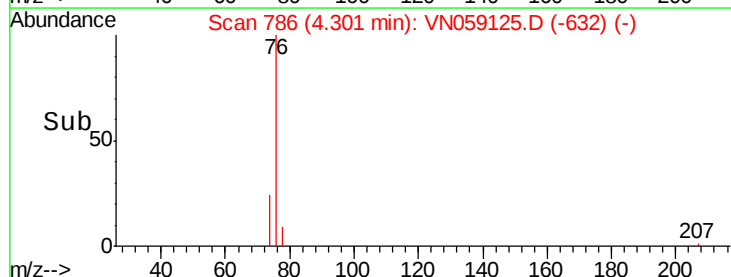
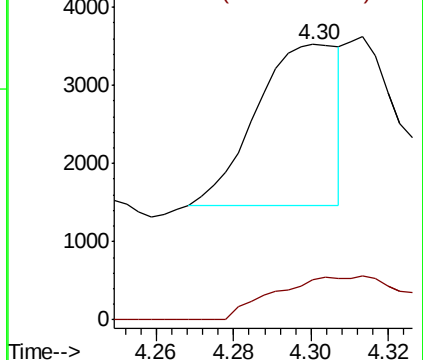
43 100

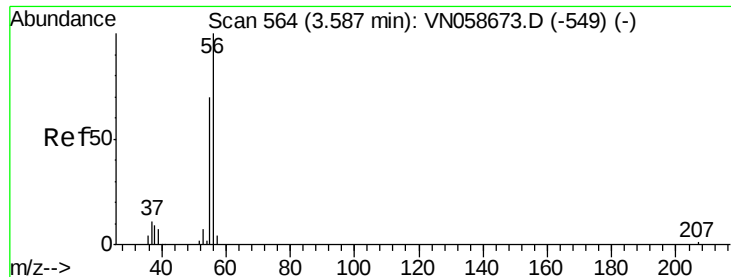
74 24.4 18.1 27.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.398 ug/l

RT: 3.59 min Scan# 565

Delta R.T. 0.00 min

Lab File: VN059125.D

Acq: 7 Nov 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

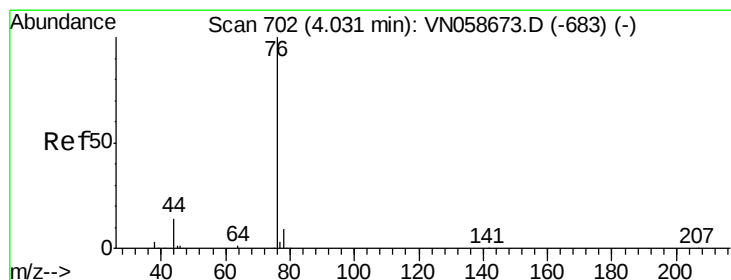
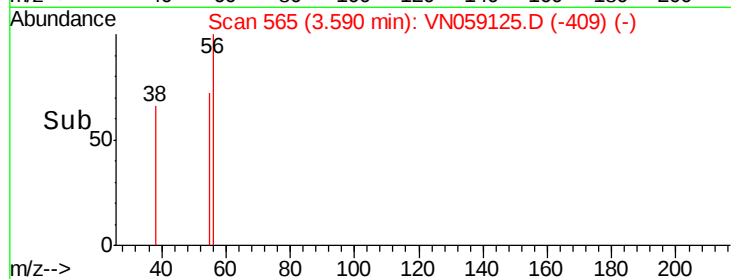
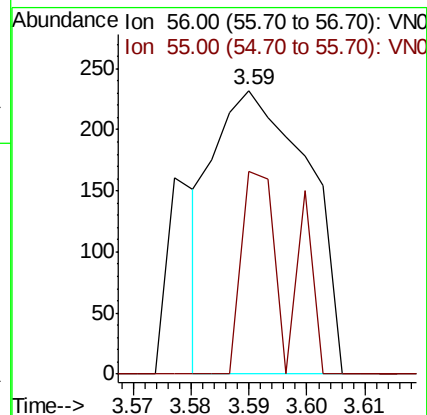
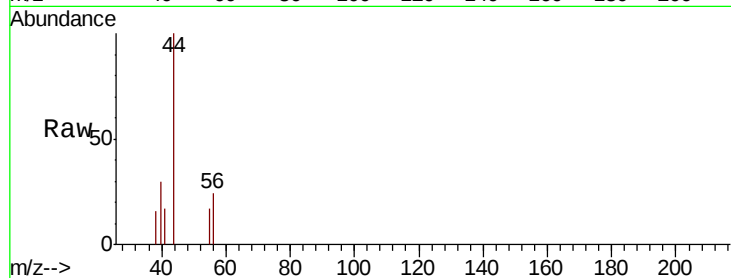
001-WILLETS-PT-BLVD-(NOV)

Tot Ion: 56 Resp: 262

Ion Ratio Lower Upper

56 100

55 24.0 55.9 83.9#



#16

Carbon Disulfide

Concen: 0.586 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN059125.D

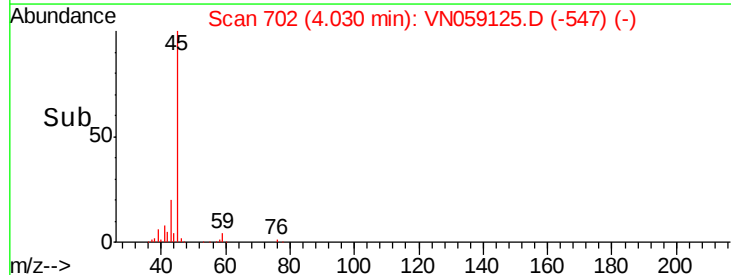
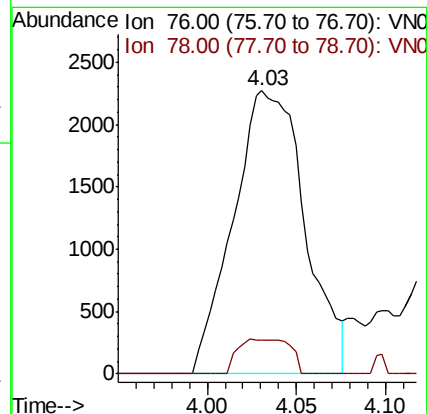
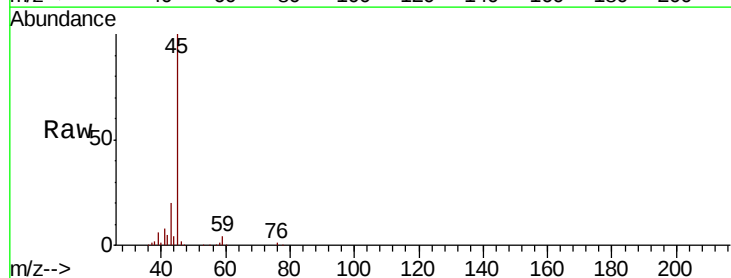
Acq: 7 Nov 2019 16:38

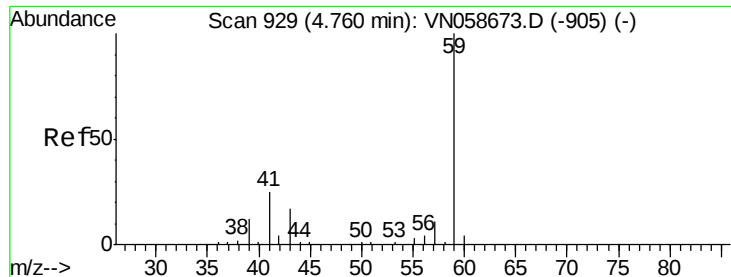
Tgt Ion: 76 Resp: 6368

Ion Ratio Lower Upper

76 100

78 11.9 7.4 11.0#



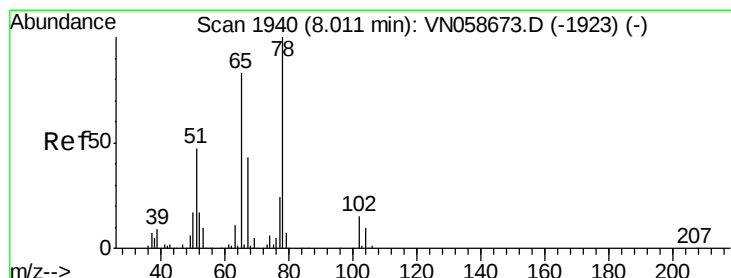
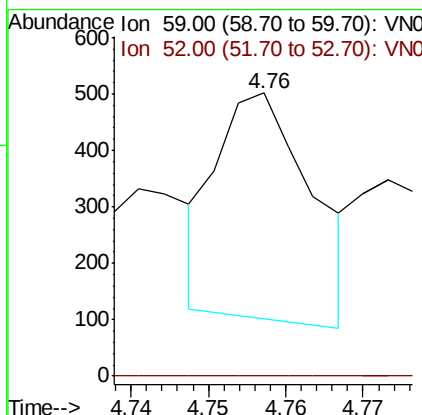
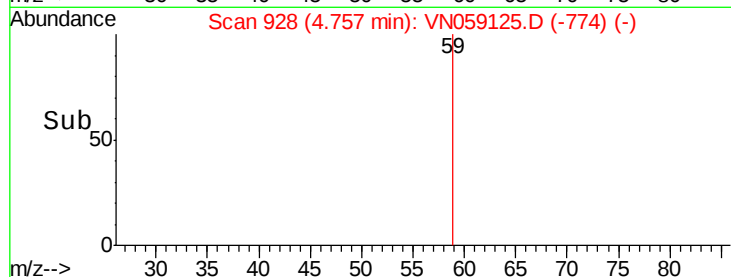
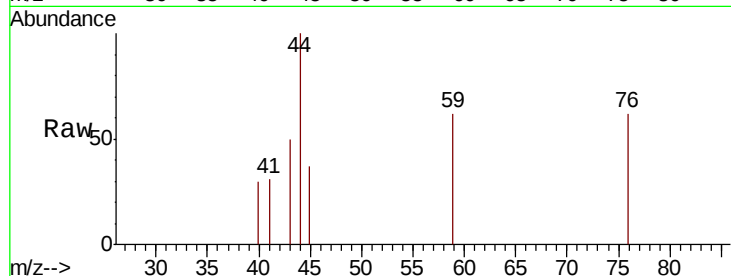


#23

tert-Butyl Alcohol
 Concen: 0.352 ug/l
 RT: 4.76 min Scan# 928
 Delta R.T. -0.00 min
 Lab File: VN059125.D
 Acq: 7 Nov 2019 16:38

Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD-(NOV)

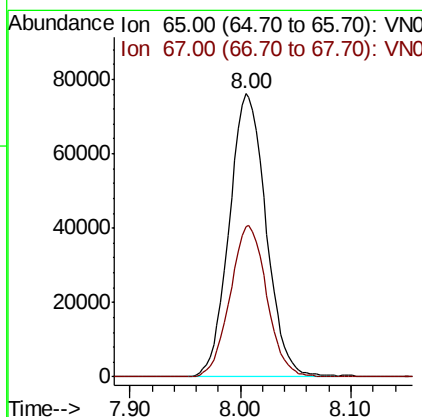
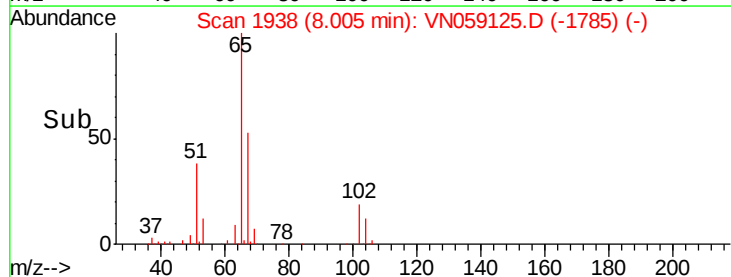
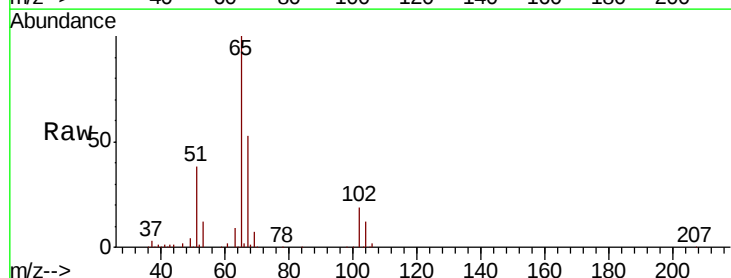
Tot Ion: 59 Resp: 338
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

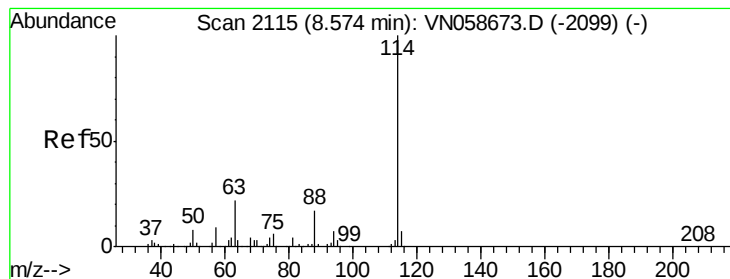


#27

1,2-Dichloroethane-d4
 Concen: 29.187 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.01 min
 Lab File: VN059125.D
 Acq: 7 Nov 2019 16:38

Tgt Ion: 65 Resp: 176448
 Ion Ratio Lower Upper
 65 100
 67 53.1 41.5 62.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.01 min

Lab File: VN059125.D

Acq: 7 Nov 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD-(NOV)

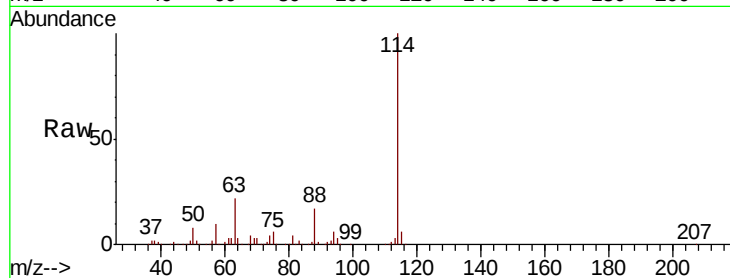
Tot Ion:114 Resp: 393920

Ion Ratio Lower Upper

114 100

63 21.8 18.1 27.1

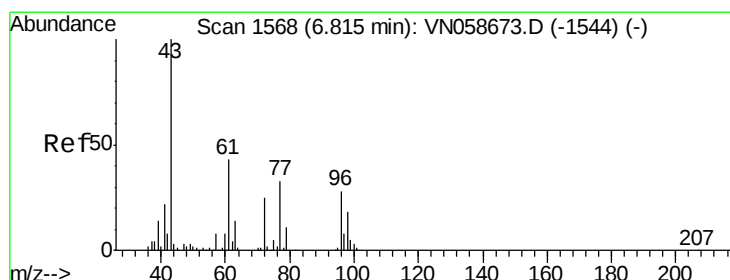
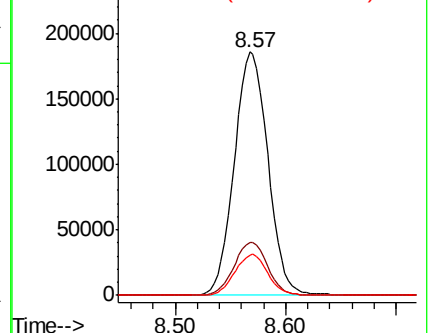
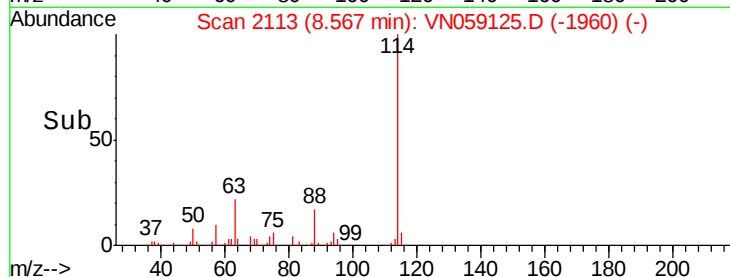
88 16.3 13.0 19.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VNO

Ion 88.00 (87.70 to 88.70): VNO



#30

2-Butanone

Concen: 25.243 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VN059125.D

Acq: 7 Nov 2019 16:38

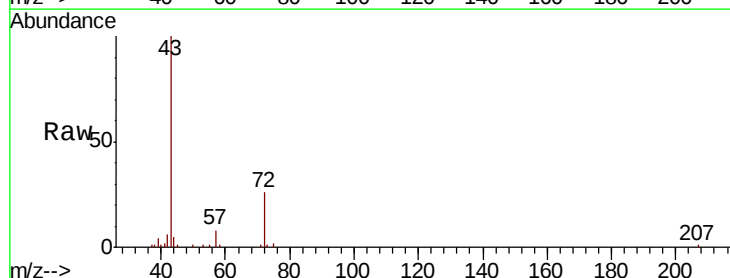
Tgt Ion: 43 Resp: 88453

Ion Ratio Lower Upper

43 100

57 3.6 6.5 9.7#

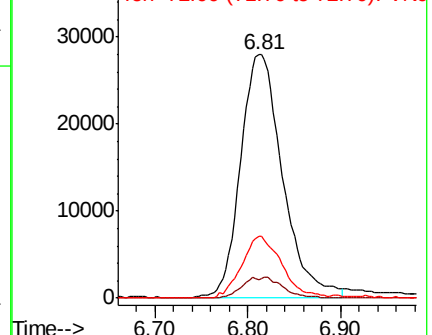
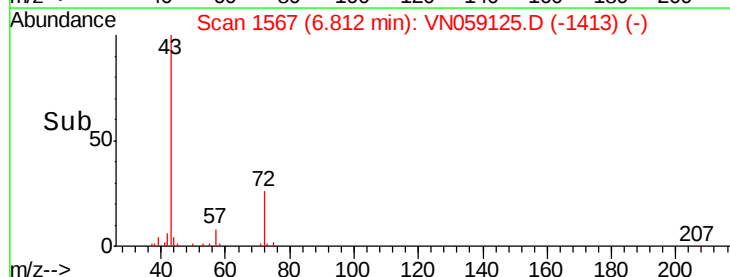
72 24.1 20.1 30.1

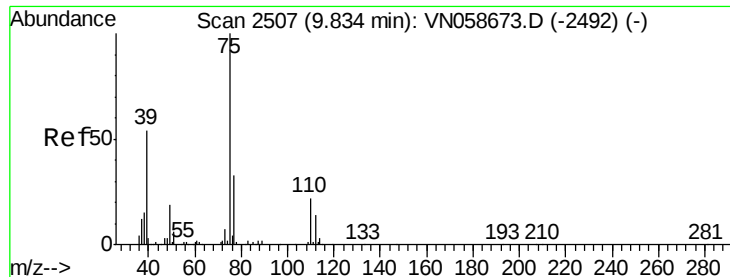


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#49

cis-1,3-Dichloropropene

Concen: 0.209 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.32 min

Lab File: VN059125.D

Acq: 7 Nov 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD-(NOV)

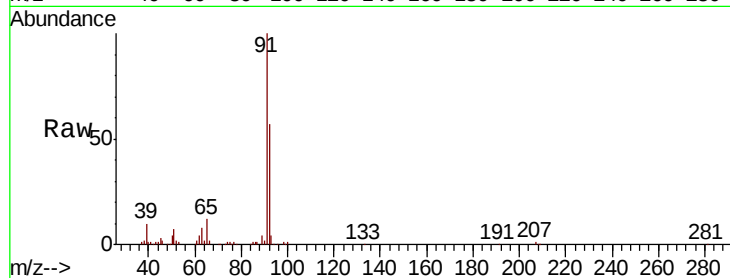
Tot Ion: 75 Resp: 1637

Ion Ratio Lower Upper

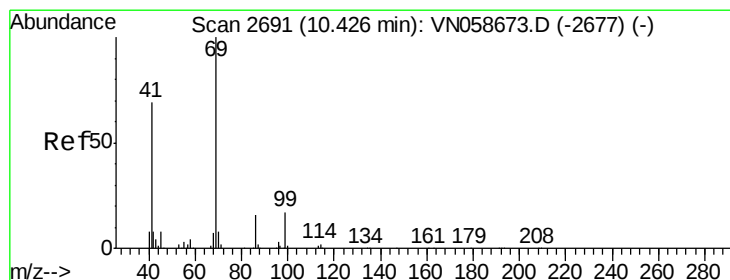
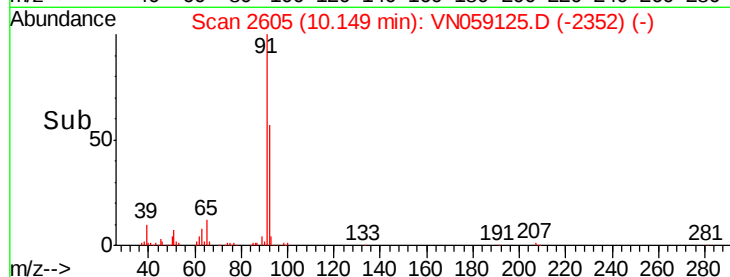
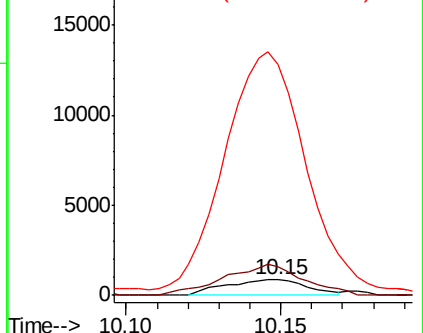
75 100

77 143.2 26.1 39.1#

39 1280.4 43.1 64.7#



Abundance Ion 75.00 (74.70 to 75.70): VNO
Ion 77.00 (76.70 to 77.70): VNO
Ion 39.00 (38.70 to 39.70): VNO



#51

Ethyl methacrylate

Concen: 0.248 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.34 min

Lab File: VN059125.D

Acq: 7 Nov 2019 16:38

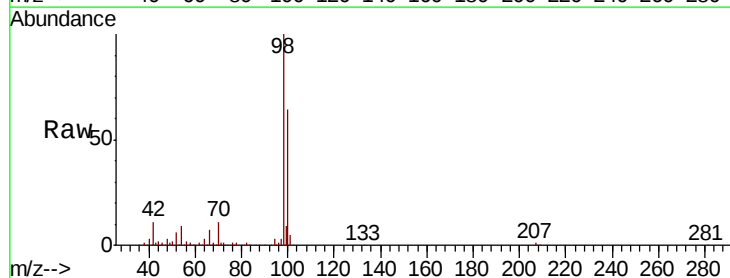
Tgt Ion: 69 Resp: 1785

Ion Ratio Lower Upper

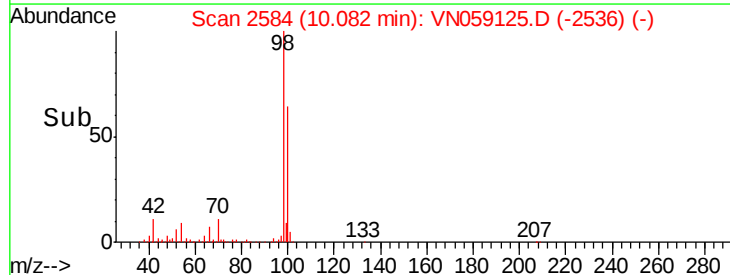
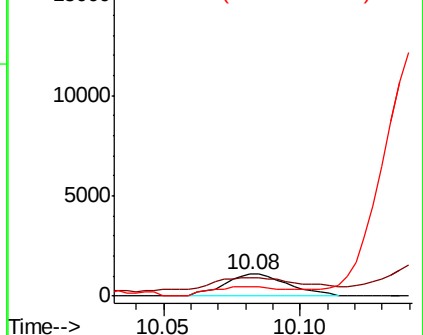
69 100

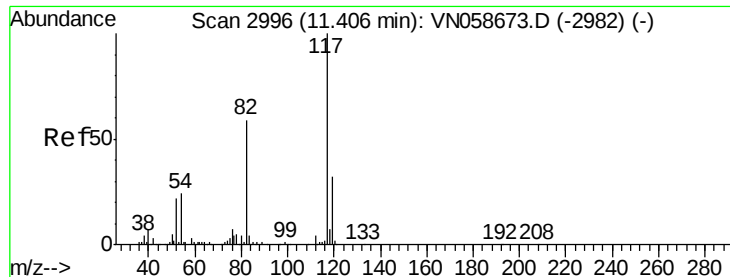
41 56.5 34.7 104.1

39 44.7 20.3 60.8



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

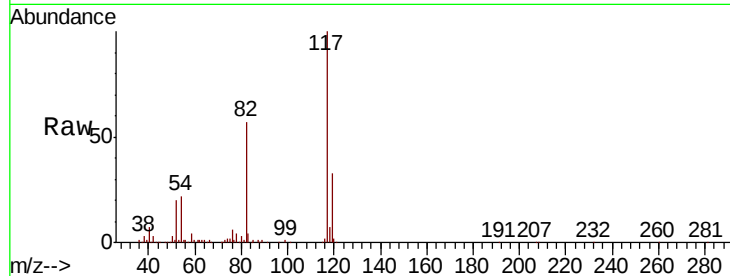




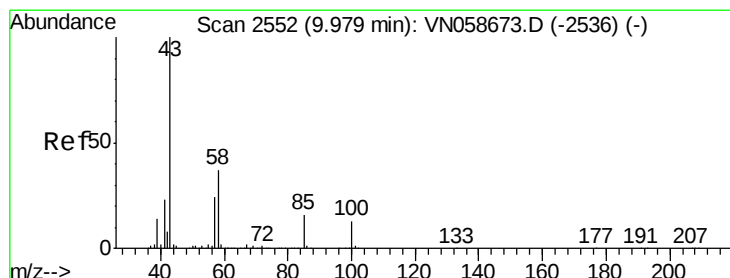
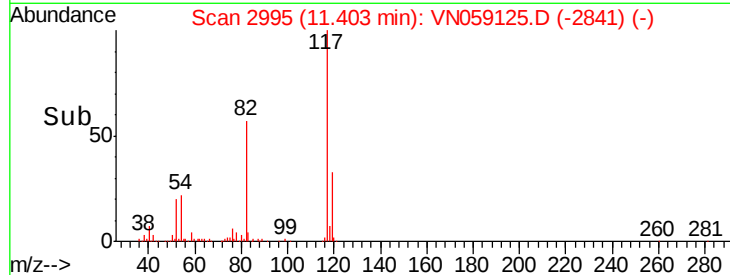
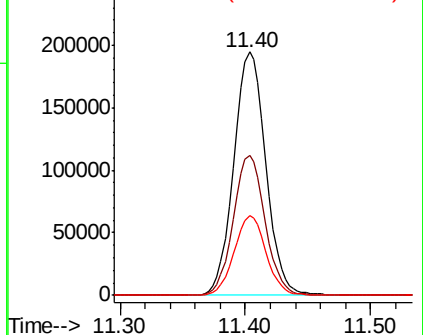
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059125.D
Acq: 7 Nov 2019 16:38

Instrument :
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001-WILLETS-PT-BLVD-(NOV)

Tot Ion:117 Resp: 345885
Ion Ratio Lower Upper
117 100
82 57.0 46.9 70.3
119 32.4 25.8 38.6

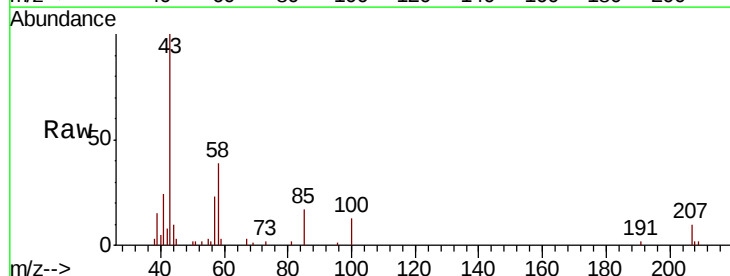


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

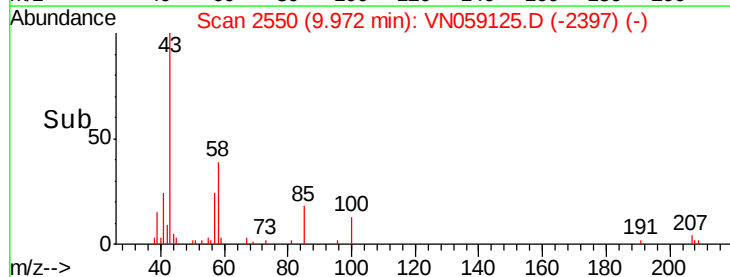
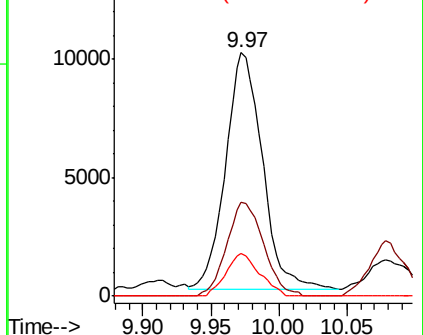


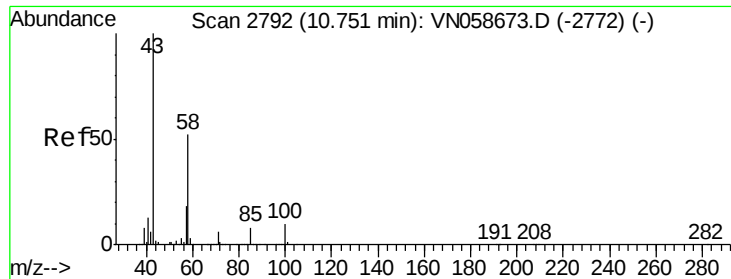
#58
4-Methyl-2-Pentanone
Concen: 2.984 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. -0.01 min
Lab File: VN059125.D
Acq: 7 Nov 2019 16:38

Tgt Ion: 43 Resp: 18828
Ion Ratio Lower Upper
43 100
58 39.3 30.1 45.1
85 16.2 13.2 19.8



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

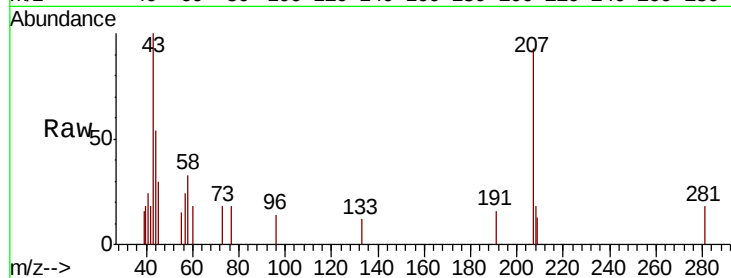




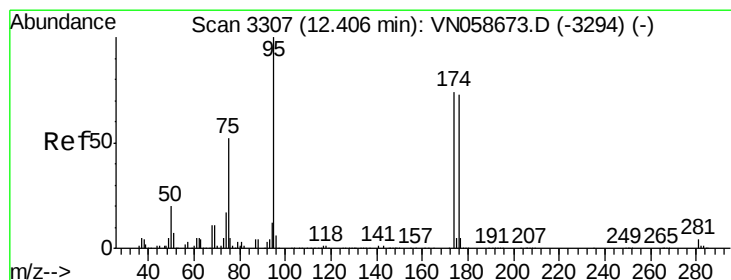
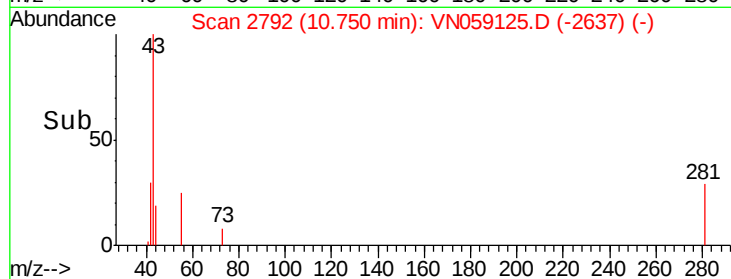
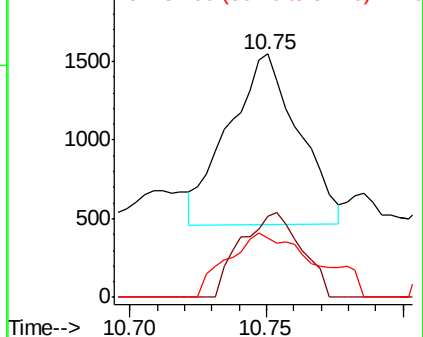
#59
2-Hexanone
Concen: 0.389 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN059125.D
Acq: 7 Nov 2019 16:38

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD-(NOV)

Tot Ion: 43 Resp: 1924
Ion Ratio Lower Upper
43 100
58 43.3 41.4 62.0
57 26.4 14.7 22.1#

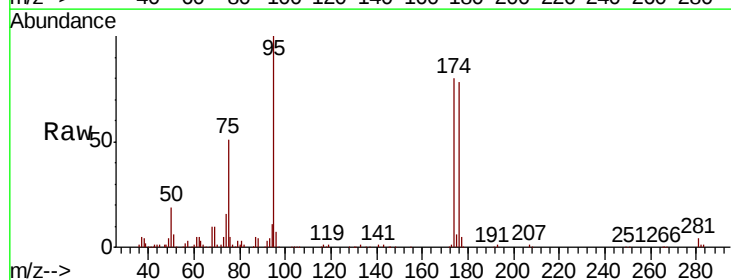


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 57.00 (56.70 to 57.70): VN0

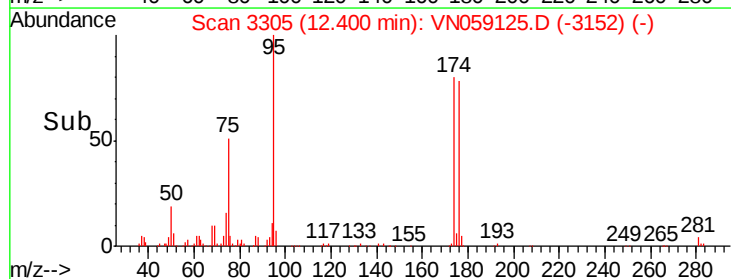
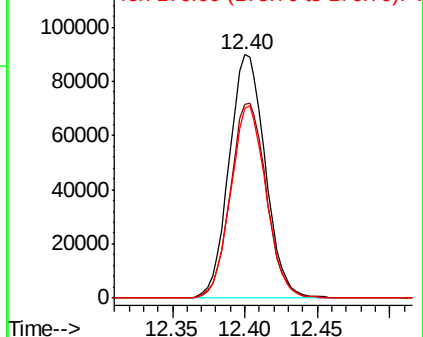


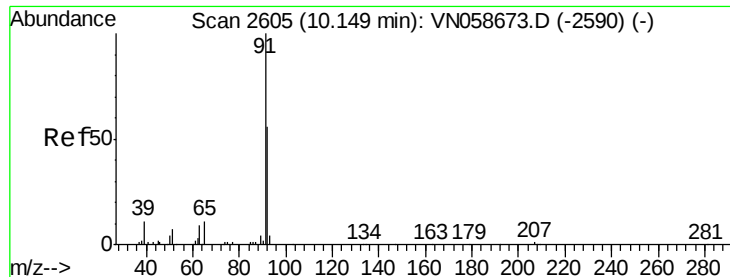
#60
4-Bromofluorobenzene
Concen: 25.716 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.01 min
Lab File: VN059125.D
Acq: 7 Nov 2019 16:38

Tgt Ion: 95 Resp: 155593
Ion Ratio Lower Upper
95 100
174 79.7 59.9 89.9
176 77.4 58.3 87.5



Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#62

Toluene

Concen: 14.038 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN059125.D

Acq: 7 Nov 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

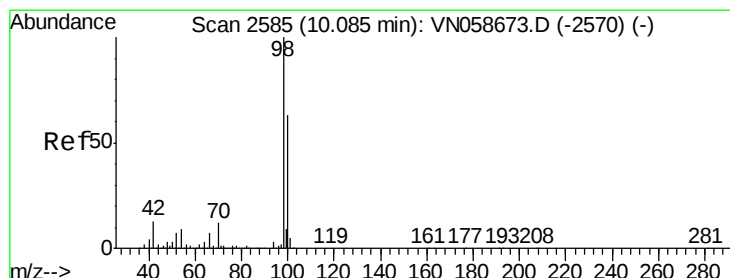
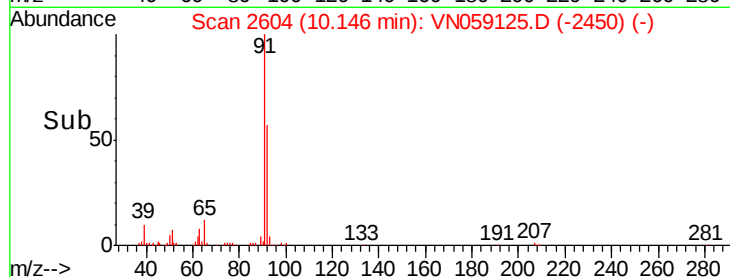
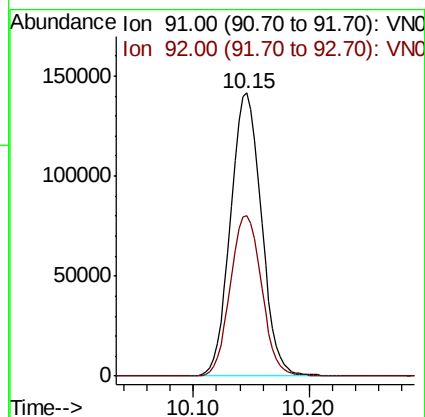
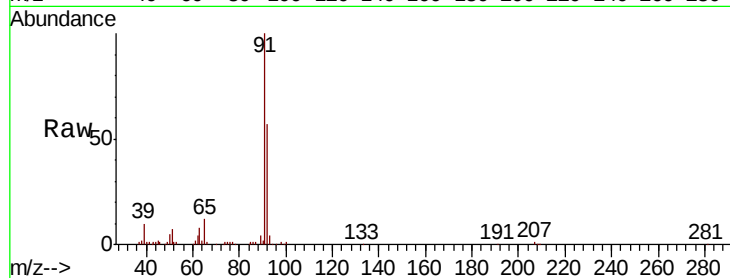
001-WILLETS-PT-BLVD-(NOV)

Tot Ion: 91 Resp: 261189

Ion Ratio Lower Upper

91 100

92 57.6 45.4 68.2



#63

Toluene-d8

Concen: 30.018 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN059125.D

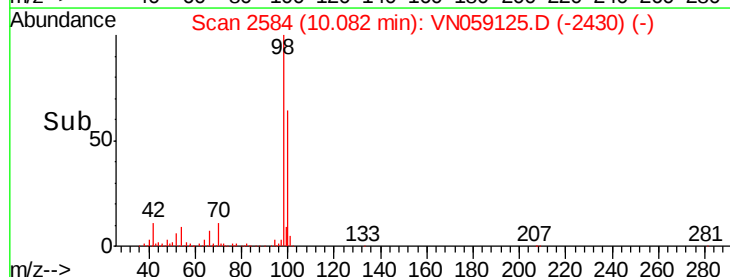
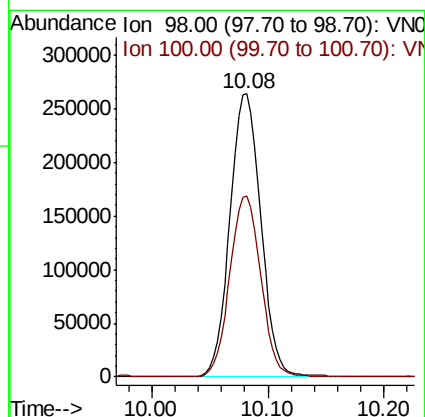
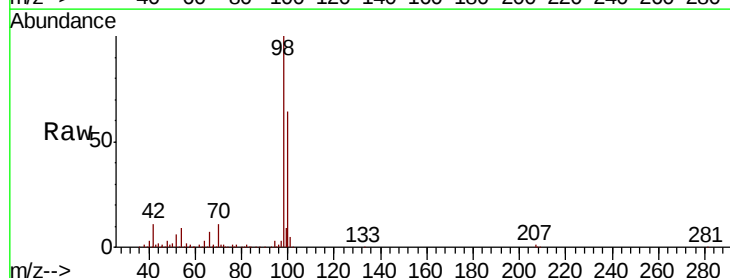
Acq: 7 Nov 2019 16:38

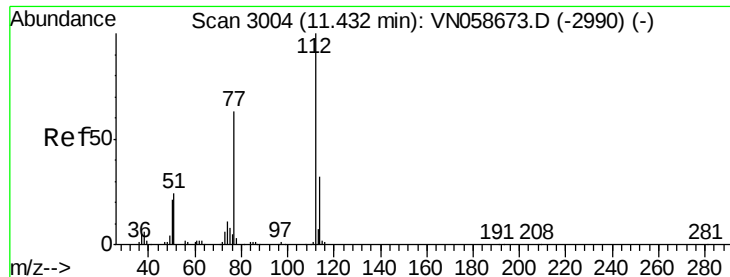
Tgt Ion: 98 Resp: 490240

Ion Ratio Lower Upper

98 100

100 64.0 50.6 75.8





#64

Chlorobenzene

Concen: 0.269 ug/l

RT: 11.80 min Scan# 3119

Delta R.T. 0.37 min

Lab File: VN059125.D

Acq: 7 Nov 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

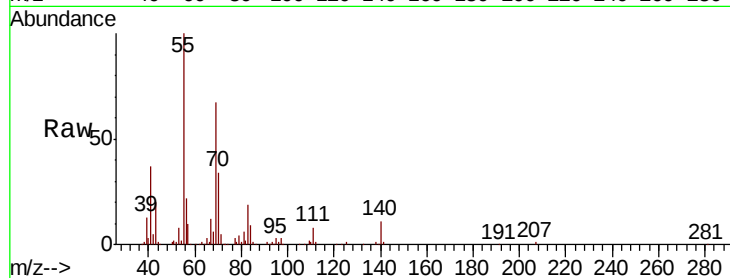
001-WILLETS-PT-BLVD-(NOV)

Tot Ion:112 Resp: 3057

Ion Ratio Lower Upper

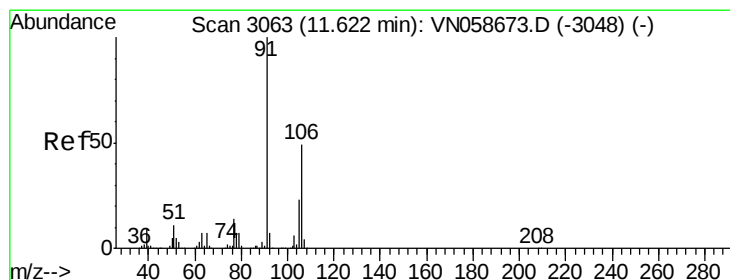
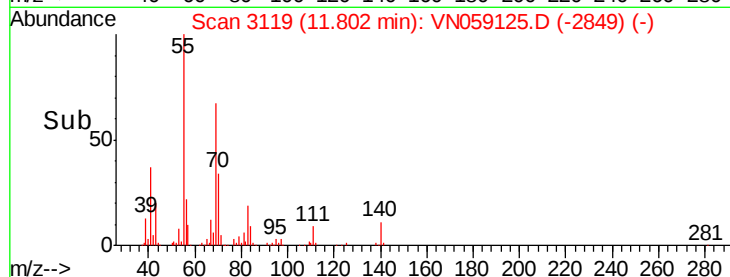
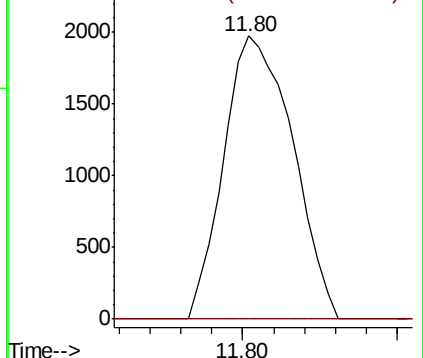
112 100

114 0.0 25.7 38.5#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#67

m/p-Xylenes

Concen: 0.204 ug/l

RT: 11.61 min Scan# 3060

Delta R.T. -0.01 min

Lab File: VN059125.D

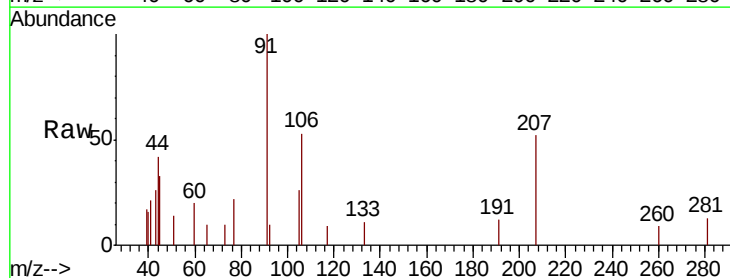
Acq: 7 Nov 2019 16:38

Tgt Ion:106 Resp: 1574

Ion Ratio Lower Upper

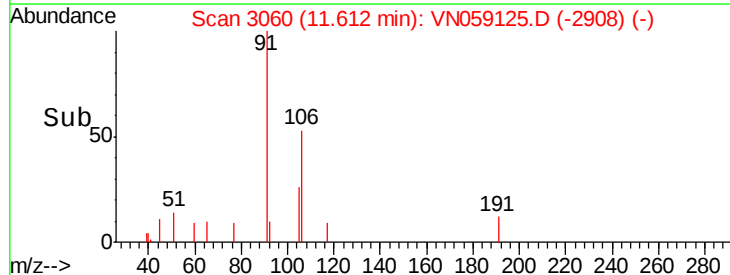
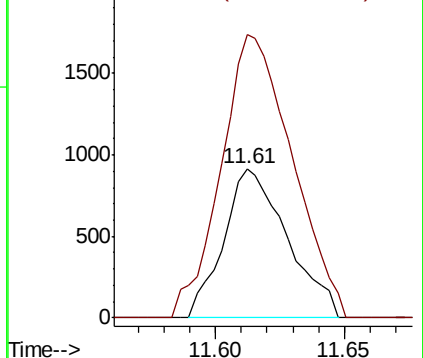
106 100

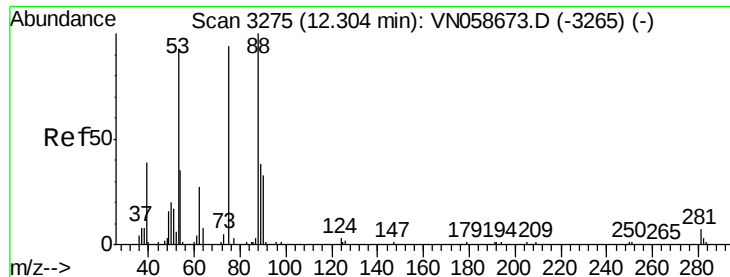
91 212.3 165.6 248.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

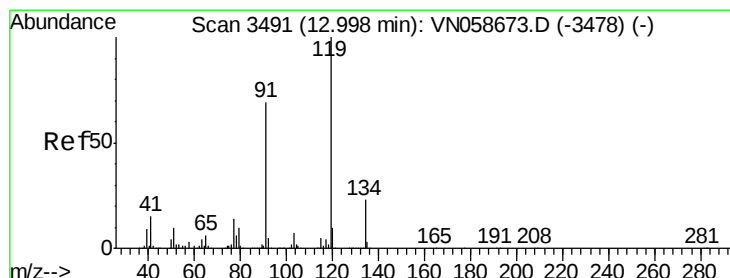
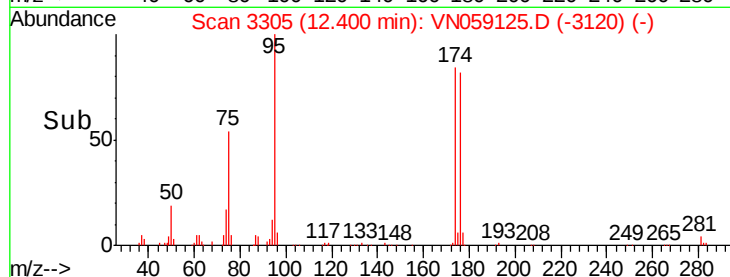
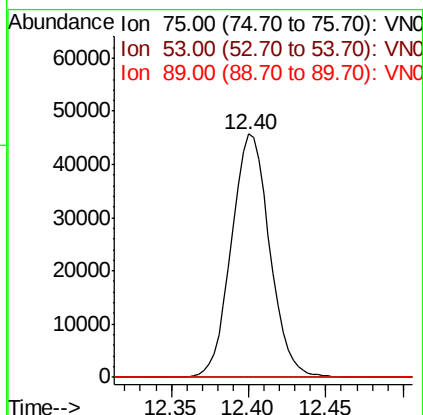
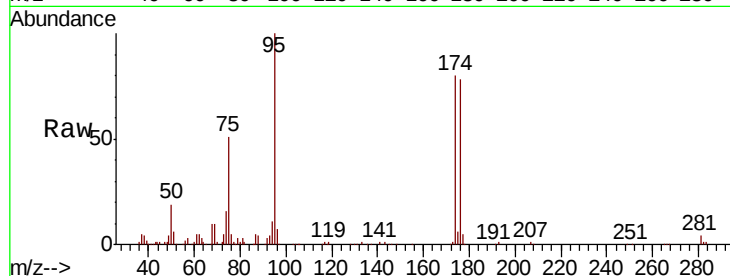




#77
t-1,4-Dichloro-2-butene
Concen: 33.570 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN059125.D
Acq: 7 Nov 2019 16:38

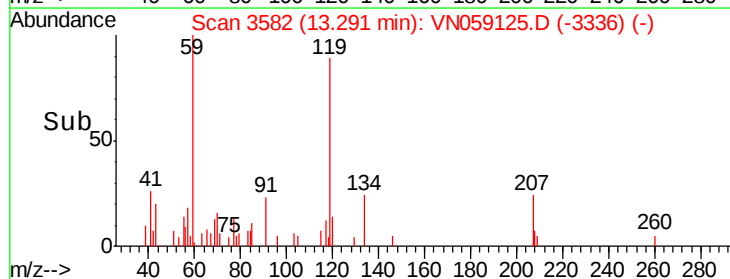
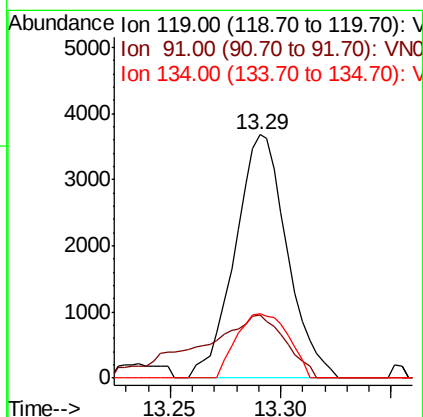
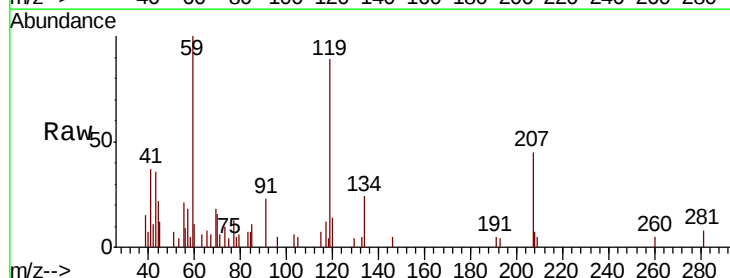
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD-(NOV)

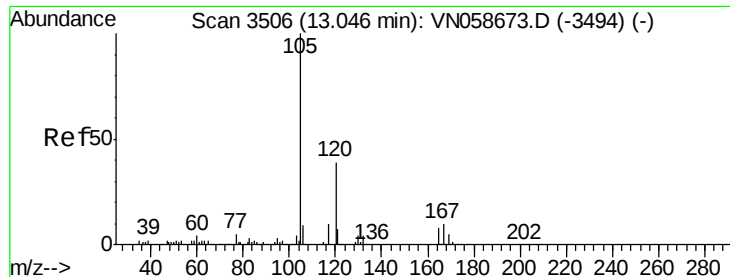
Tot Ion: 75 Resp: 78589
Ion Ratio Lower Upper
75 100
53 0.0 50.0 150.0#
89 0.0 20.7 62.1#



#79
tert-butylbenzene
Concen: 0.409 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.29 min
Lab File: VN059125.D
Acq: 7 Nov 2019 16:38

Tgt Ion: 119 Resp: 6025
Ion Ratio Lower Upper
119 100
91 41.5 0.0 136.4
134 26.6 0.0 47.2





#80

1,2,4-Trimethylbenzene

Concen: 0.449 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. -0.00 min

Lab File: VN059125.D

Acq: 7 Nov 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

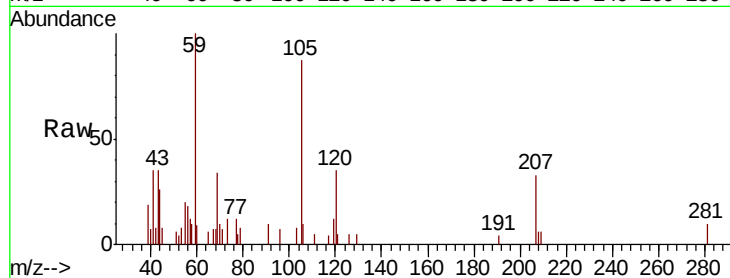
001-WILLETS-PT-BLVD-(NOV)

Tot Ion:105 Resp: 7705

Ion Ratio Lower Upper

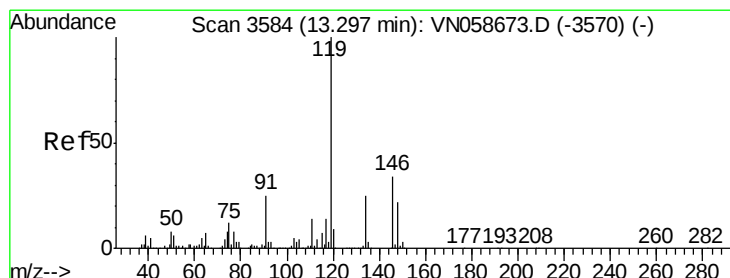
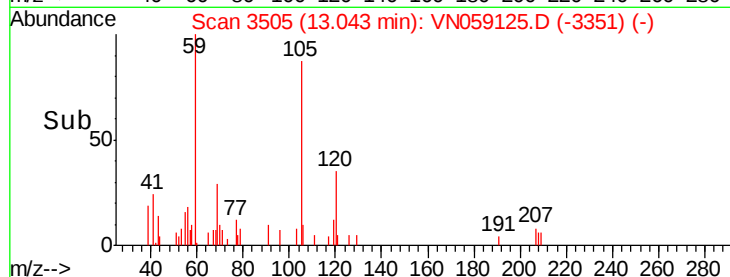
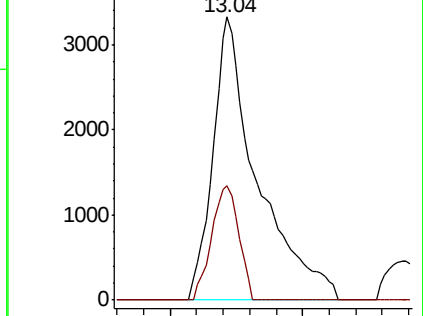
105 100

120 24.7 0.0 89.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#82

p-Isopropyltoluene

Concen: 0.338 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.01 min

Lab File: VN059125.D

Acq: 7 Nov 2019 16:38

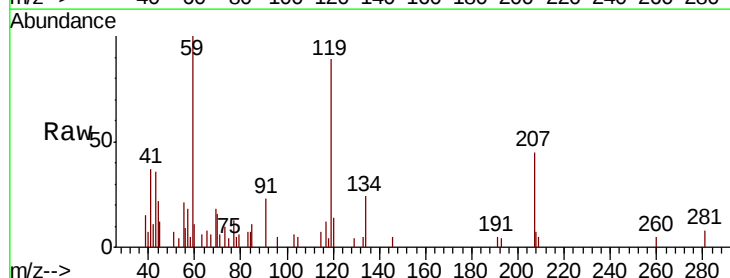
Tgt Ion:119 Resp: 6025

Ion Ratio Lower Upper

119 100

134 26.6 0.0 50.8

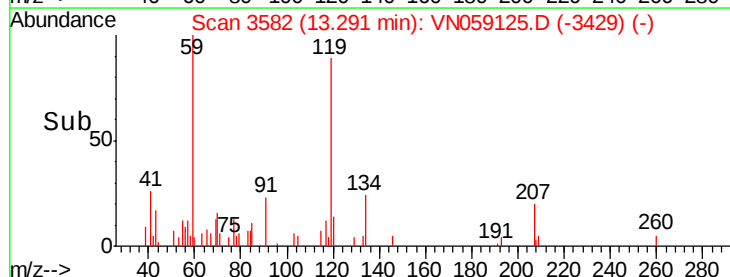
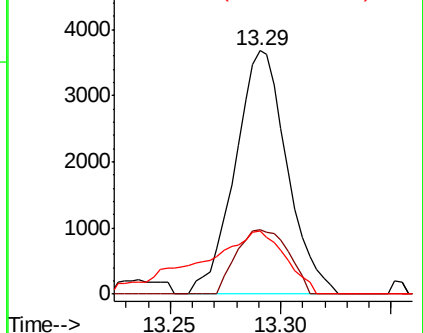
91 41.5 0.0 49.4

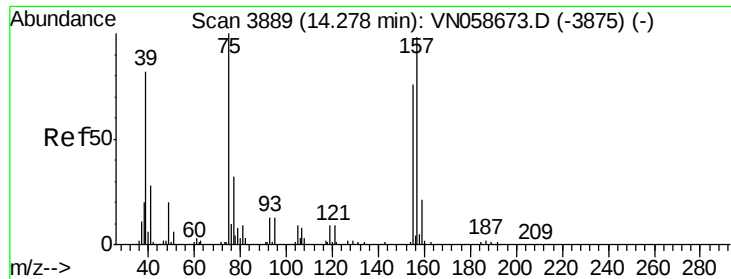


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.260 ug/l

RT: 14.28 min Scan# 3890

Delta R.T. 0.00 min

Lab File: VN059125.D

Acq: 7 Nov 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD-(NOV)

Tot Ion: 75 Resp: 392

Ion Ratio Lower Upper

75 100

155 0.0 58.3 87.5#

157 0.0 75.0 112.6#

