

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070220\
 Data File : VX07147.D
 Acq On : 02 Jul 2020 14:46
 Operator : JC/SP
 Sample : L3200-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 001-WILLETS-PT-BLVD-(JULY)

Quant Time: Jul 03 00:48:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 26 09:03:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	41218	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	231087	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	197661	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	89247	27.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	92.73%
60) 4-Bromofluorobenzene	11.12	95	96084	29.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.17%
63) Toluene-d8	8.70	98	250453	28.74	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.80%

Target Compounds

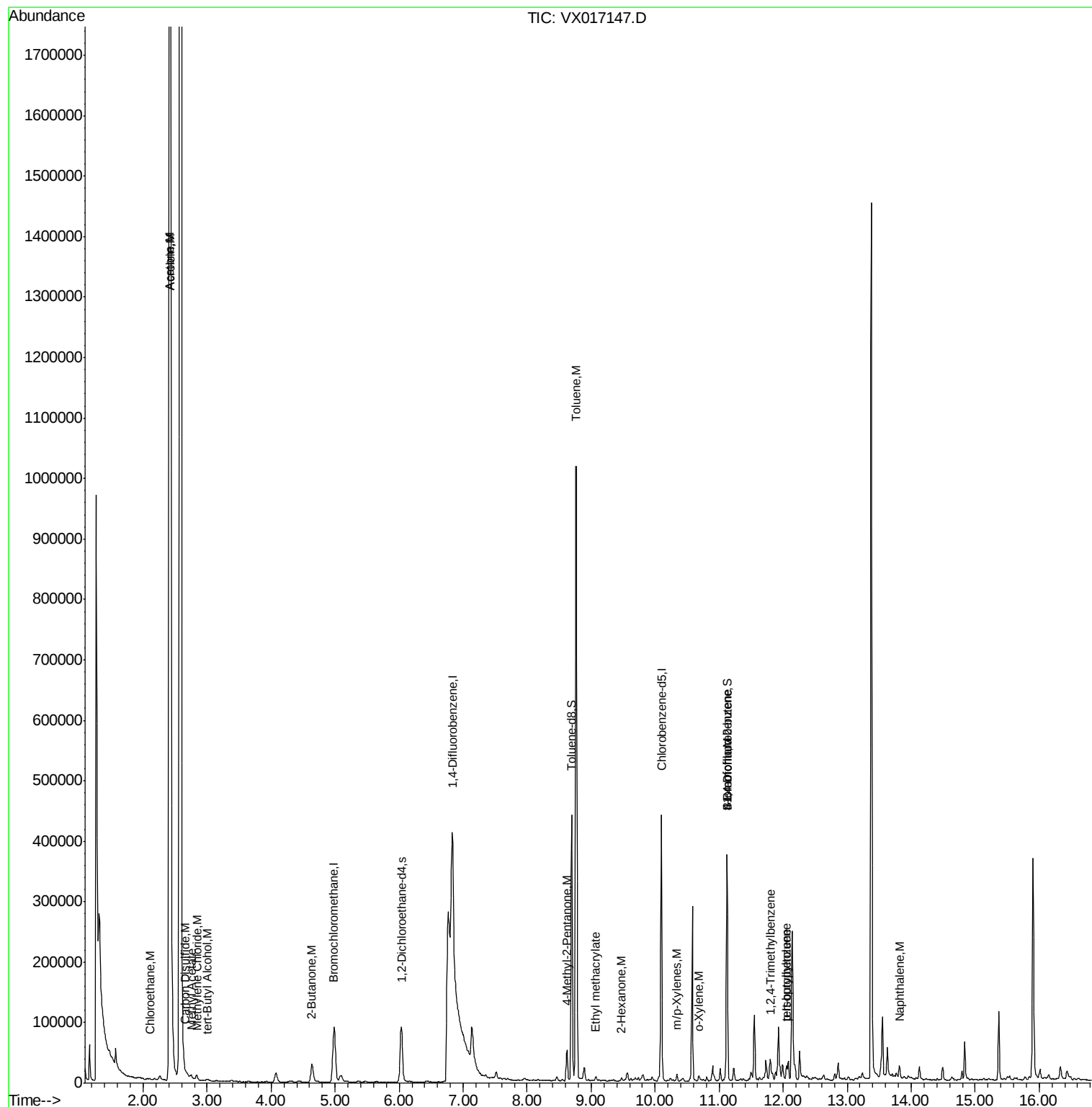
					Ovalue	
6) Chloroethane	2.11	64	402	0.225	ug/l #	46
12) Methyl Acetate	2.75	43	7687	2.583	ug/l	99
13) Acrolein	2.43	56	421	0.896	ug/l	93
15) Acetone	2.42	58	2112688	5791.060	ug/l	94
16) Carbon Disulfide	2.66	76	1858	0.250	ug/l	99
18) Methylene Chloride	2.84	84	3624	1.275	ug/l #	88
23) tert-Butyl Alcohol	3.01	59	3228	5.169	ug/l #	100
30) 2-Butanone	4.64	43	48869	24.905	ug/l	96
51) Ethyl methacrylate	9.07	69	874	0.207	ug/l	68
56) Bromoform	11.12	173	1015	0.453	ug/l #	1
58) 4-Methyl-2-Pentanone	8.62	43	30727	8.439	ug/l	98
59) 2-Hexanone	9.48	43	2156	0.793	ug/l	91
62) Toluene	8.77	91	665724	61.578	ug/l	99
67) m/p-Xylenes	10.34	106	2606	0.576	ug/l	87
68) o-Xylene	10.68	106	1354	0.312	ug/l	88
77) t-1,4-Dichloro-2-butene	11.12	75	47201	33.515	ug/l #	12
79) tert-butylbenzene	12.05	119	7518	0.793	ug/l	67
80) 1,2,4-Trimethylbenzene	11.79	105	7076	0.713	ug/l	49
82) p-Isopropyltoluene	12.05	119	7518	0.726	ug/l	96
91) Naphthalene	13.82	128	2649	0.240	ug/l #	89

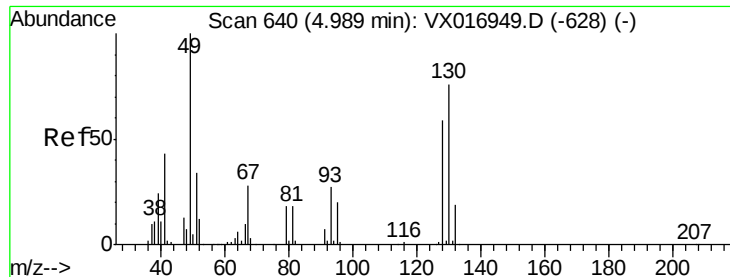
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. -0.01 min

Lab File: VX017147.D

Acq: 02 Jul 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD-(JULY)

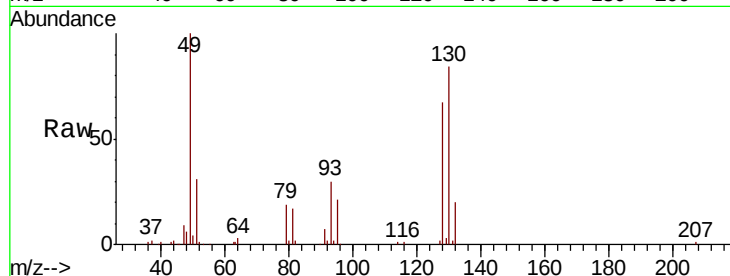
Tot Ion:128 Resp: 41218

Ion Ratio Lower Upper

128 100

49 147.7 0.0 428.0

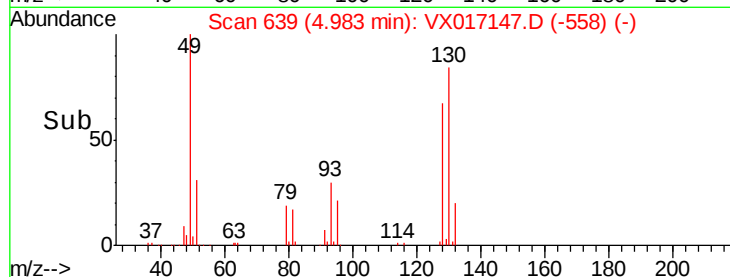
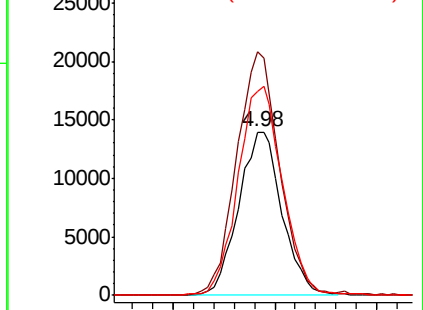
130 130.8 0.0 318.0



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



#6

Chloroethane

Concen: 0.225 ug/l

RT: 2.11 min Scan# 168

Delta R.T. 0.40 min

Lab File: VX017147.D

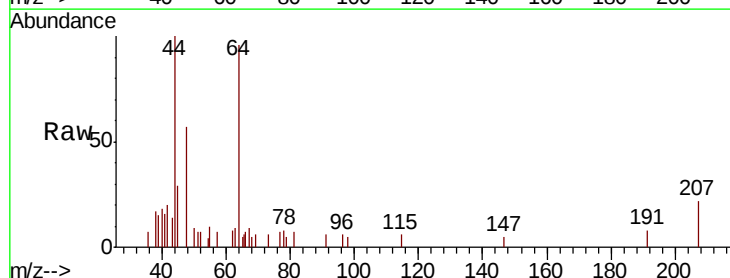
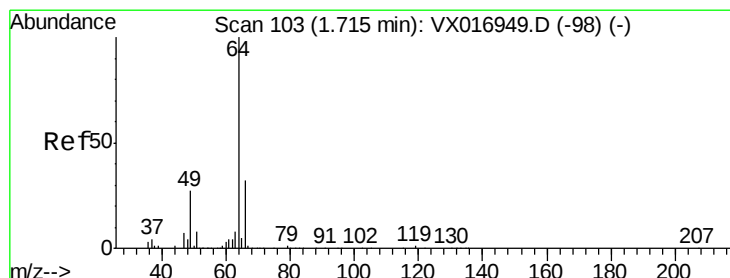
Acq: 02 Jul 2020 14:46

Tgt Ion: 64 Resp: 402

Ion Ratio Lower Upper

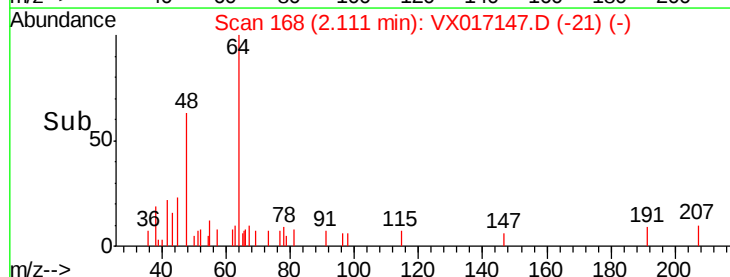
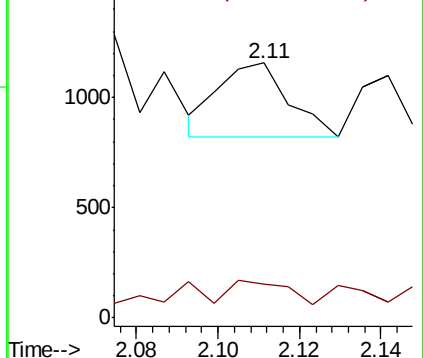
64 100

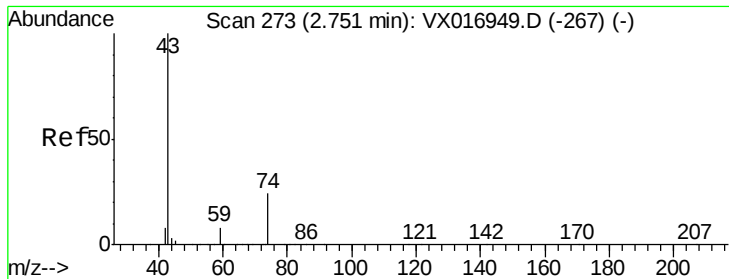
66 2.1 26.1 39.1#



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0





#12

Methvl Acetate

Concen: 2.583 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX017147.D

Acq: 02 Jul 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

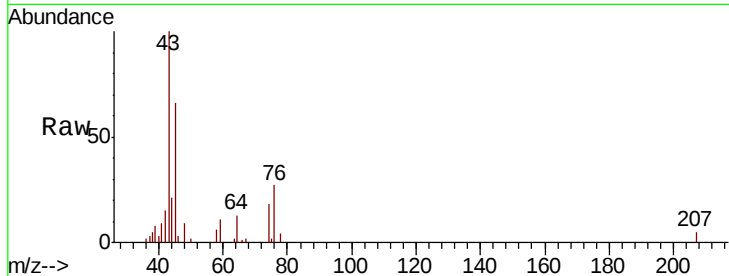
001-WILLETS-PT-BLVD-(JULY)

Tot Ion: 43 Resp: 7687

Ion Ratio Lower Upper

43 100

74 23.6 19.1 28.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.75

4000

3000

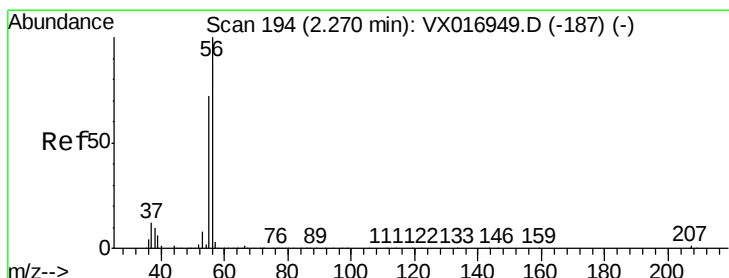
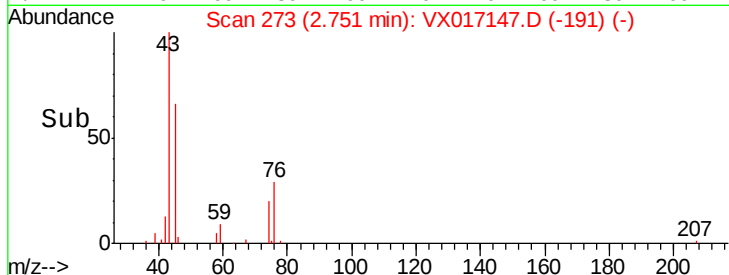
2000

1000

0

2.70 2.75 2.80

Time-->



#13

Acrolein

Concen: 0.896 ug/l

RT: 2.43 min Scan# 221

Delta R.T. 0.16 min

Lab File: VX017147.D

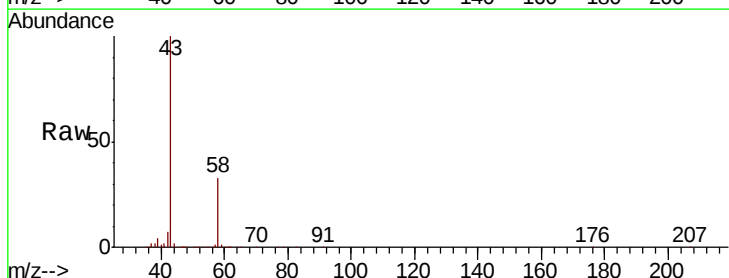
Acq: 02 Jul 2020 14:46

Tgt Ion: 56 Resp: 421

Ion Ratio Lower Upper

56 100

55 64.4 56.2 84.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

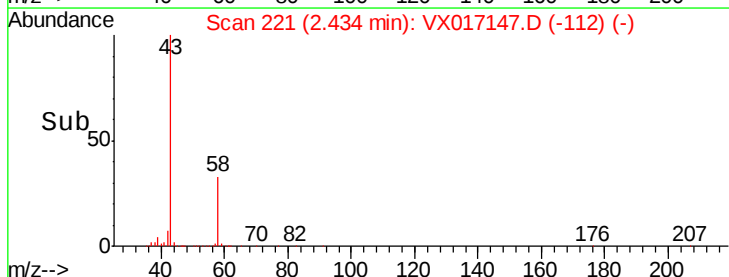
10000

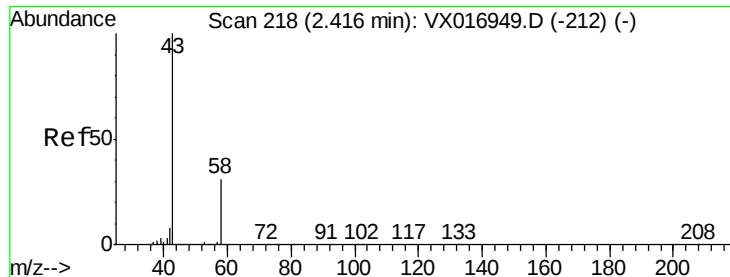
5000

0

2.42 2.44 2.46 2.48

Time-->





#15

Acetone

Concen: 5791.060 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX017147.D

Acq: 02 Jul 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

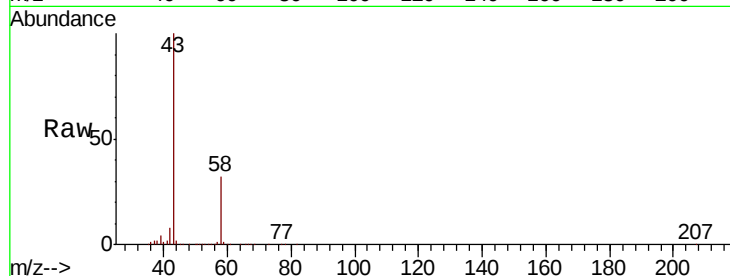
001-WILLETS-PT-BLVD-(JULY)

Tot Ion: 58 Resp: 2112688

Ion Ratio Lower Upper

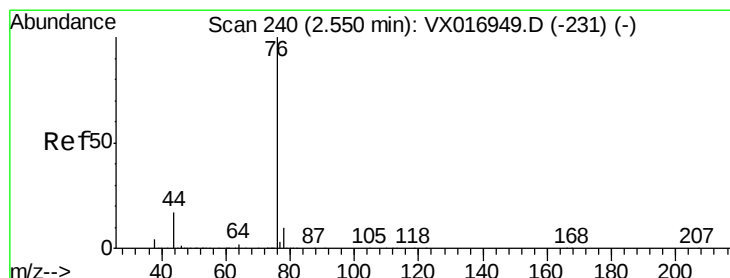
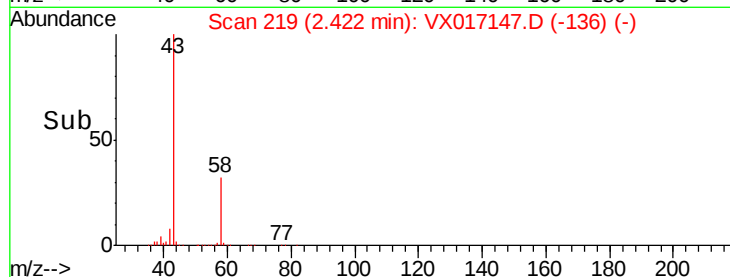
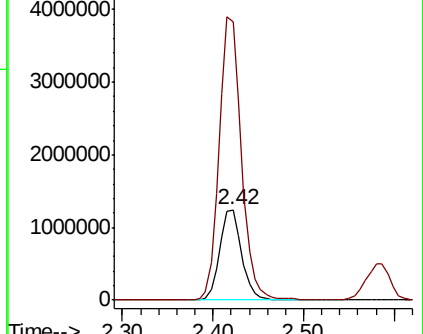
58 100

43 309.4 257.6 386.4



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 0.250 ug/l

RT: 2.66 min Scan# 258

Delta R.T. 0.11 min

Lab File: VX017147.D

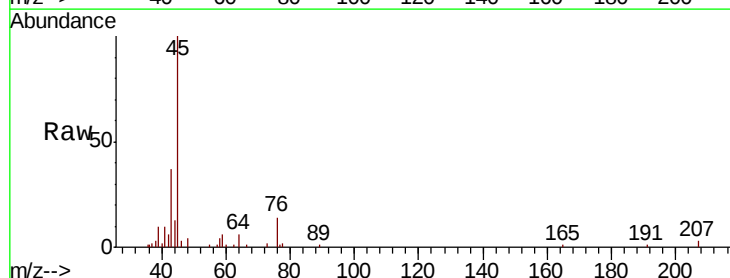
Acq: 02 Jul 2020 14:46

Tgt Ion: 76 Resp: 1858

Ion Ratio Lower Upper

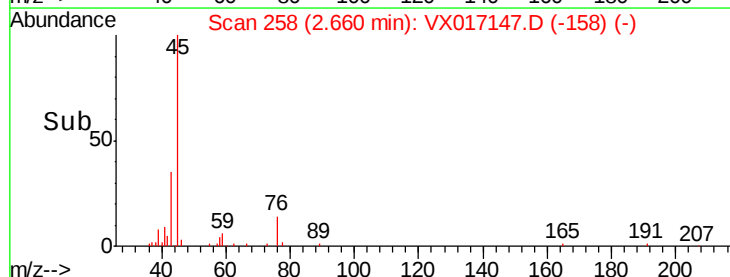
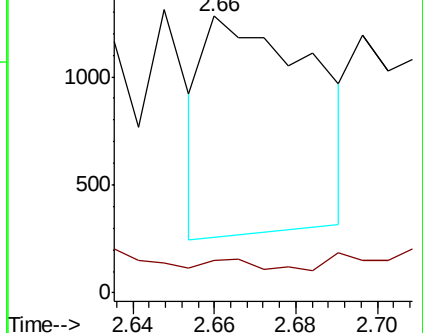
76 100

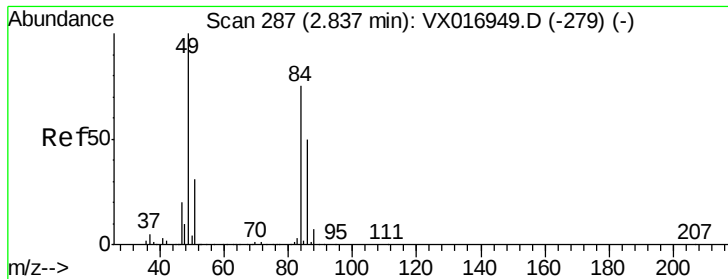
78 9.0 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

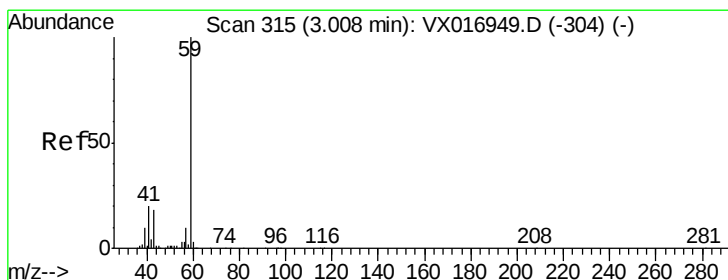
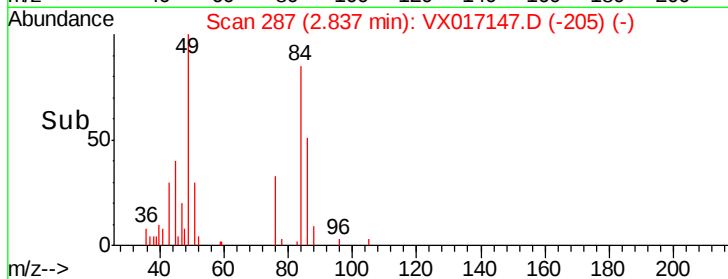
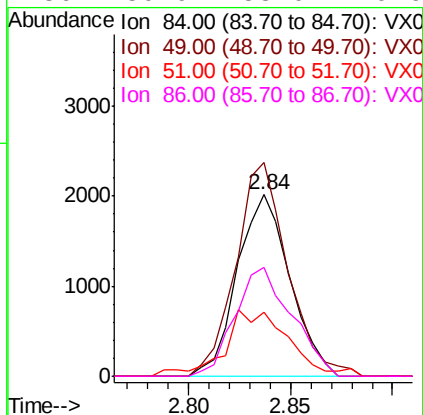
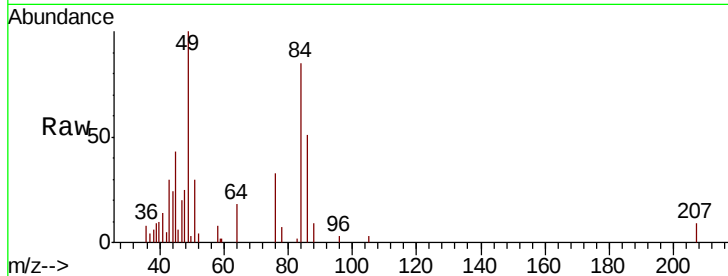




#18
Methylene Chloride
Concen: 1.275 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

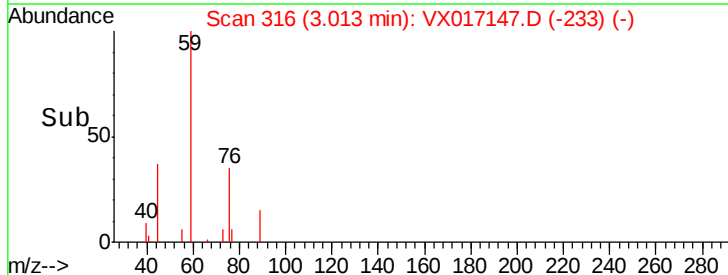
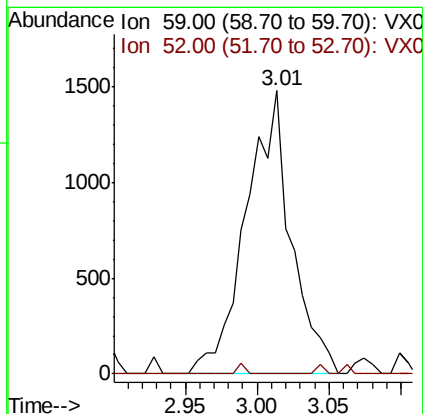
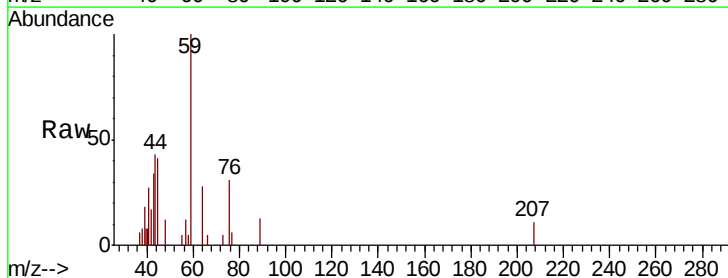
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD-(JULY)

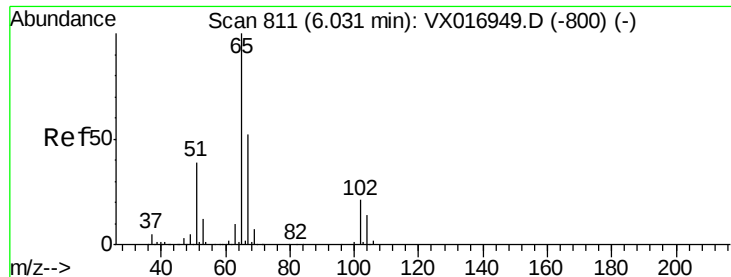
Tot Ion:	84	Resp:	3624
Ion	Ratio	Lower	Upper
84	100		
49	117.6	106.6	159.8
51	32.7	32.7	49.1#
86	59.9	53.0	79.6



#23
tert-Butyl Alcohol
Concen: 5.169 ug/l
RT: 3.01 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

Tgt Ion:	59	Resp:	3228
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1#





#27

1,2-Dichloroethane-d4

Concen: 27.819 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017147.D

Acq: 02 Jul 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

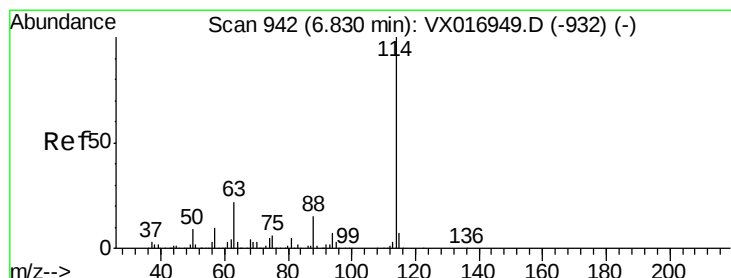
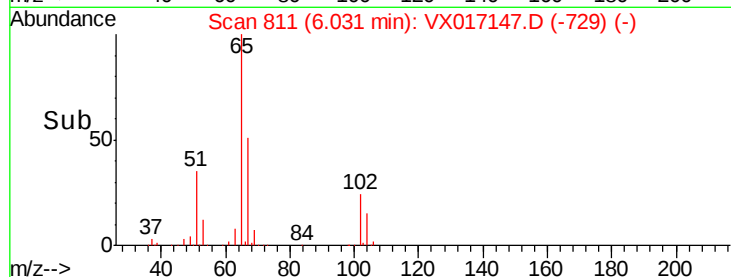
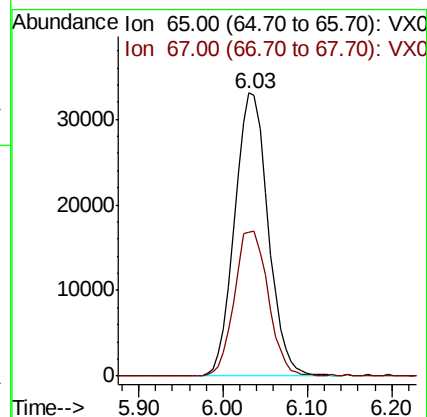
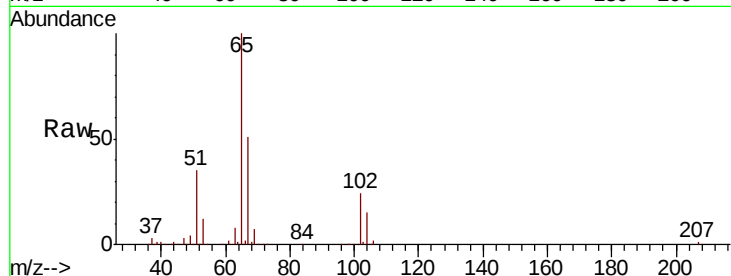
001-WILLETS-PT-BLVD-(JULY)

Tot Ion: 65 Resp: 89247

Ion Ratio Lower Upper

65 100

67 51.9 41.5 62.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017147.D

Acq: 02 Jul 2020 14:46

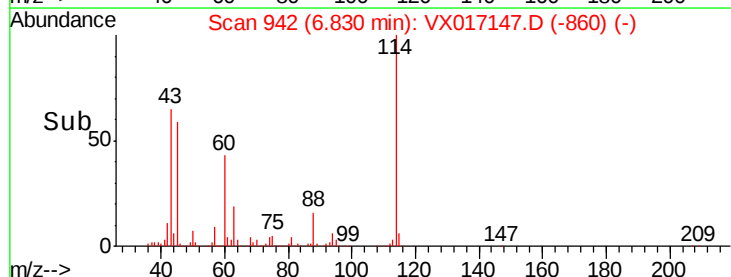
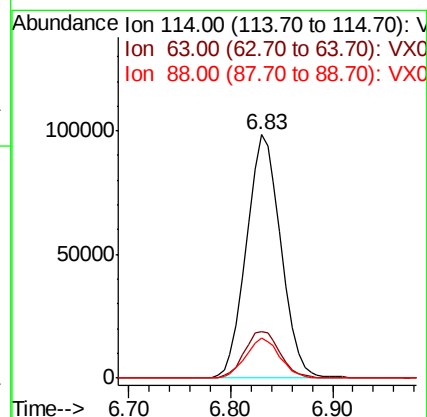
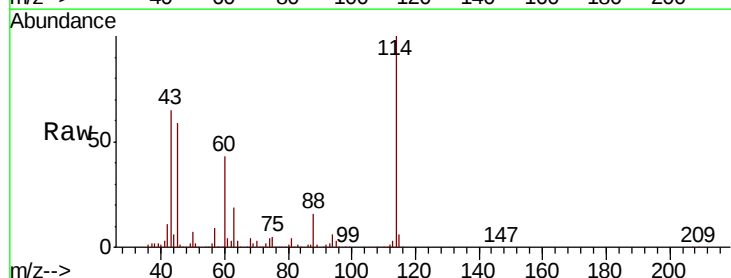
Tgt Ion: 114 Resp: 231087

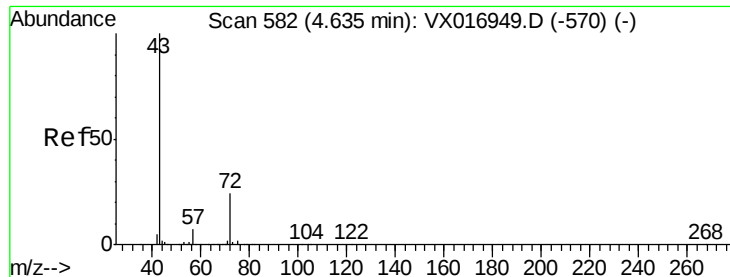
Ion Ratio Lower Upper

114 100

63 20.0 17.4 26.2

88 16.2 13.0 19.6

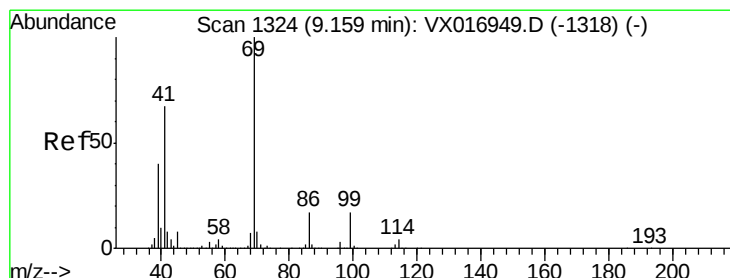
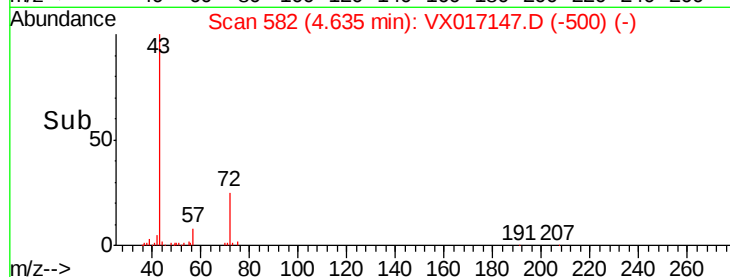
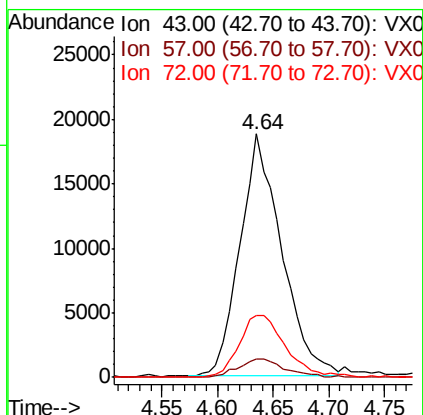
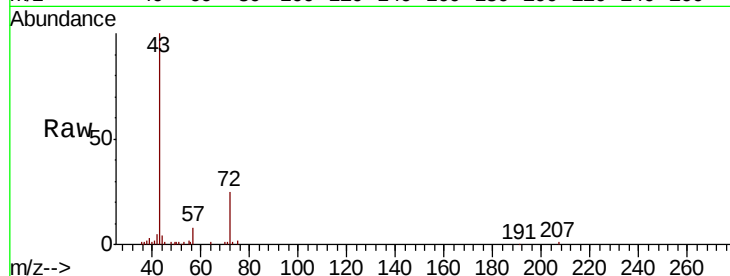




#30
2-Butanone
Concen: 24.905 ug/l
RT: 4.64 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

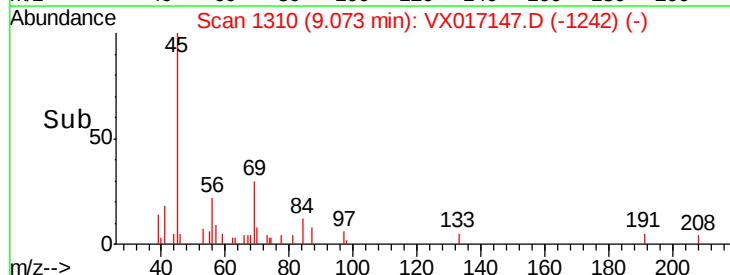
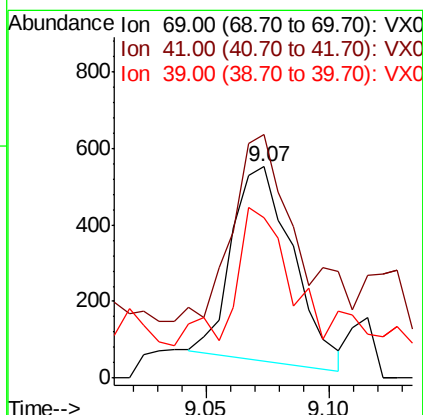
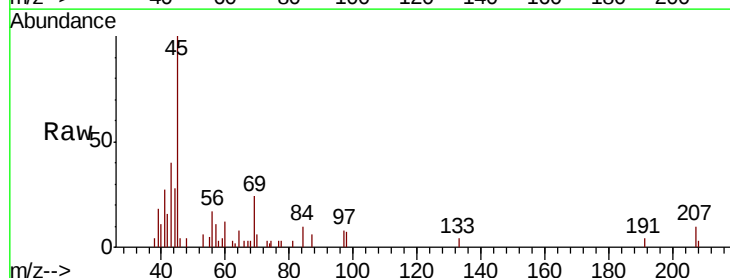
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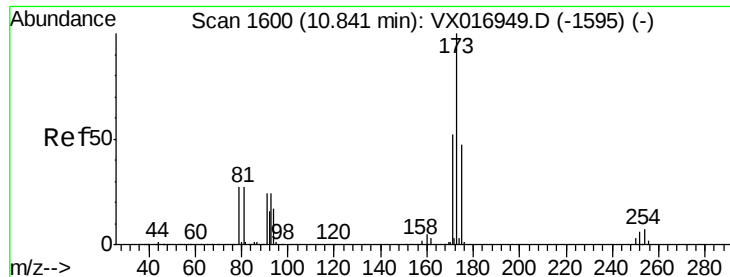
Tot Ion: 43 Resp: 48869
Ion Ratio Lower Upper
43 100
57 8.5 6.2 9.4
72 27.9 20.6 31.0



#51
Ethyl methacrylate
Concen: 0.207 ug/l
RT: 9.07 min Scan# 1310
Delta R.T. -0.09 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

Tgt Ion: 69 Resp: 874
Ion Ratio Lower Upper
69 100
41 94.1 33.7 101.1
39 58.2 19.9 59.7

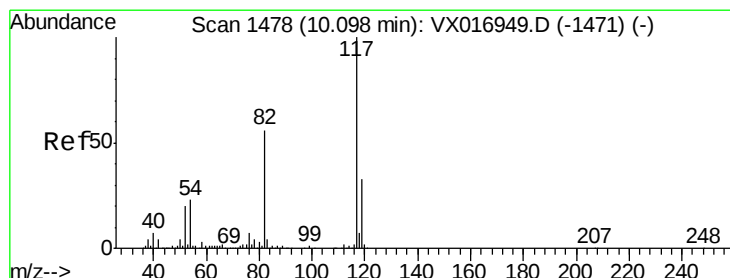
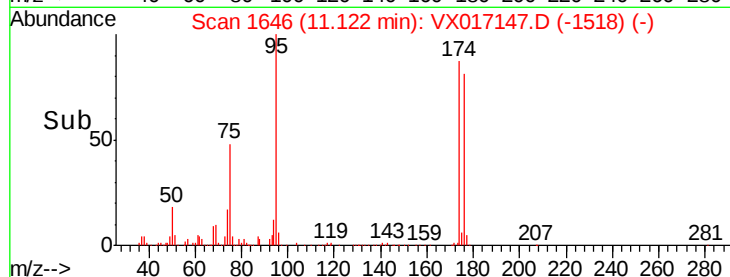
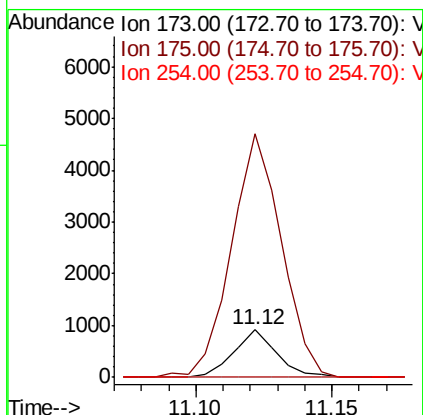
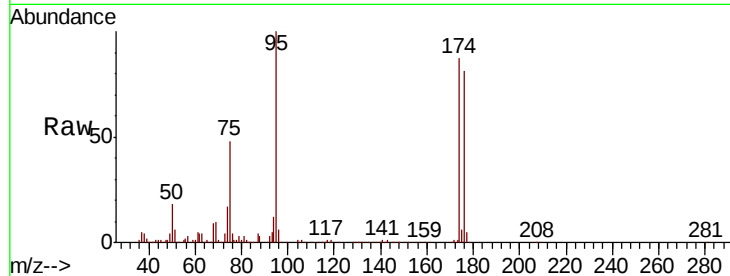




#56
Bromoform
Concen: 0.453 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.28 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

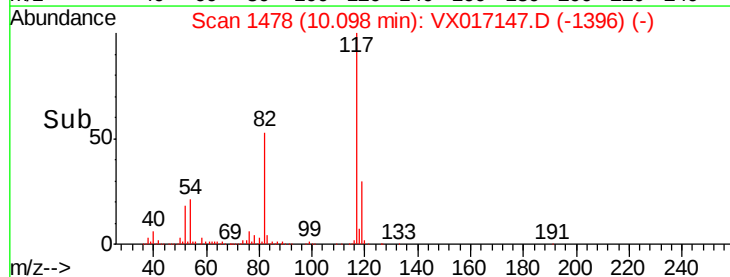
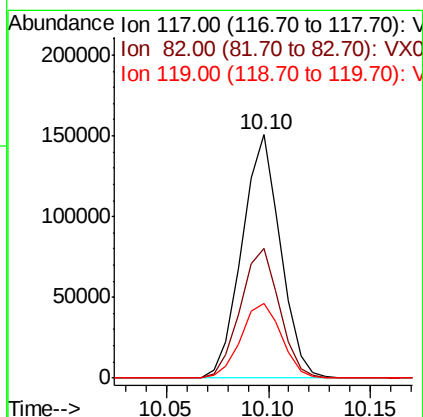
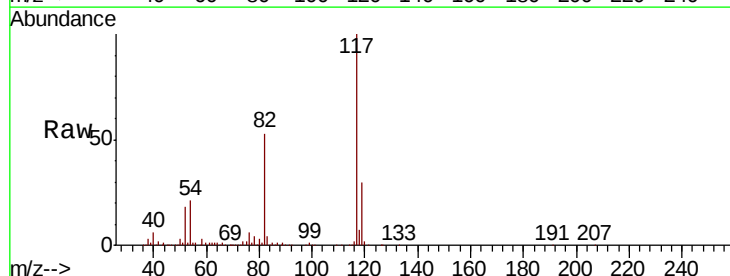
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD-(JULY)

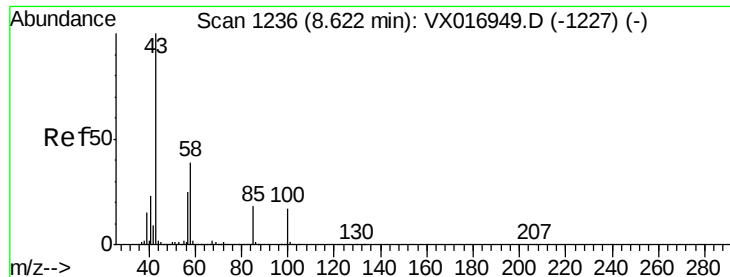
Tot Ion:173 Resp: 1015
Ion Ratio Lower Upper
173 100
175 591.3 38.7 58.1#
254 0.0 5.8 8.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

Tgt Ion:117 Resp: 197661
Ion Ratio Lower Upper
117 100
82 54.4 44.9 67.3
119 32.2 25.8 38.8

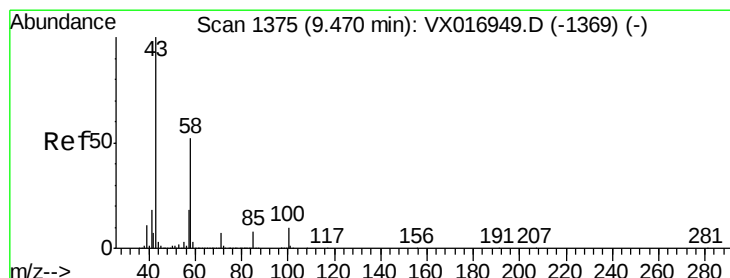
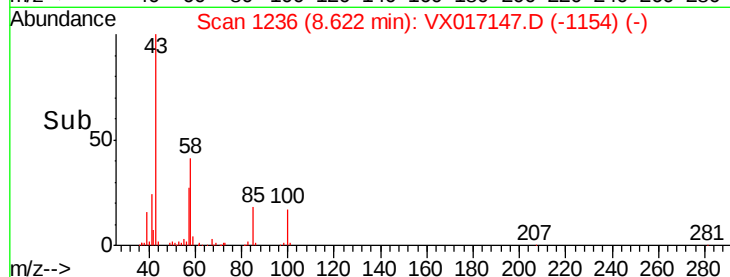
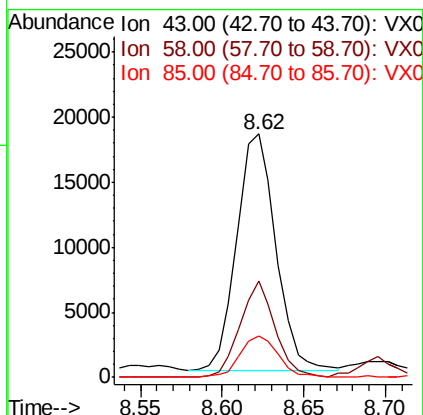
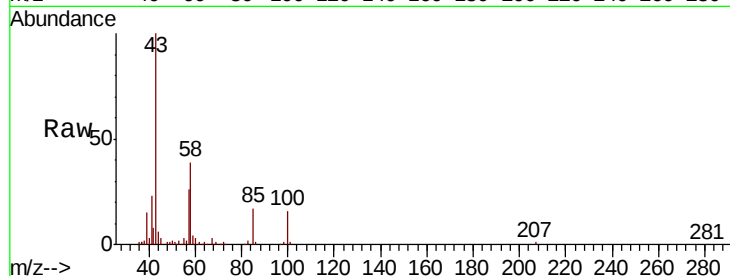




#58
4-Methyl-2-Pentanone
Concen: 8.439 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

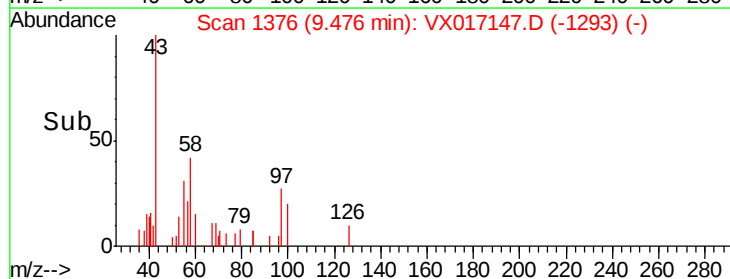
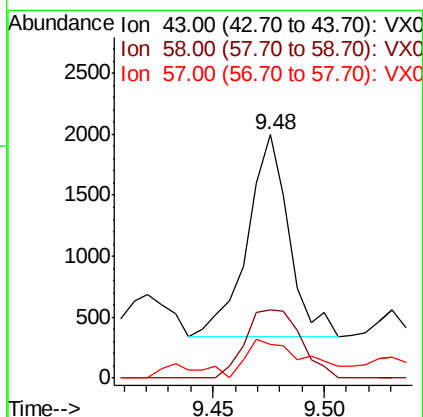
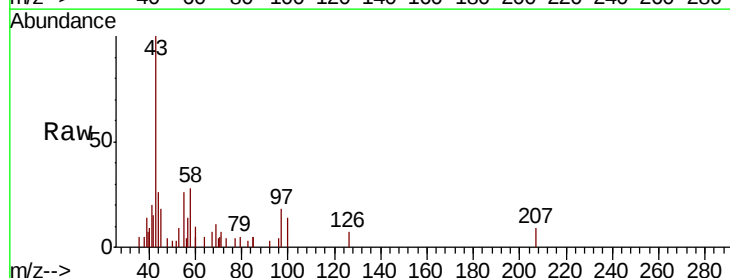
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD-(JULY)

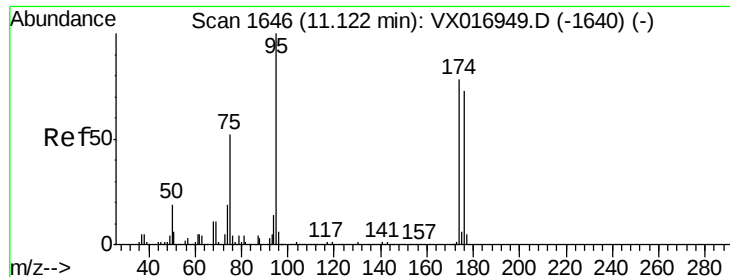
Tot Ion	Ratio	Lower	Upper
43	100		
58	36.1	30.4	45.6
85	17.0	13.5	20.3



#59
2-Hexanone
Concen: 0.793 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

Tgt Ion	Ratio	Lower	Upper
43	100		
58	45.1	42.3	63.5
57	19.7	14.1	21.1

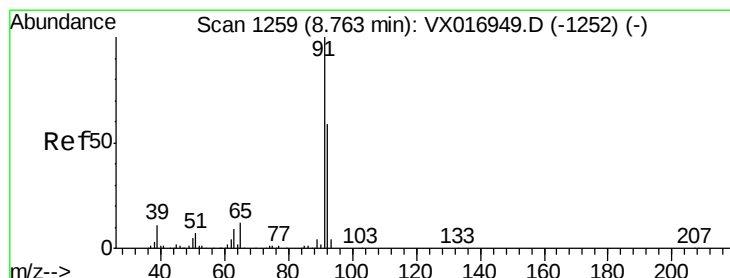
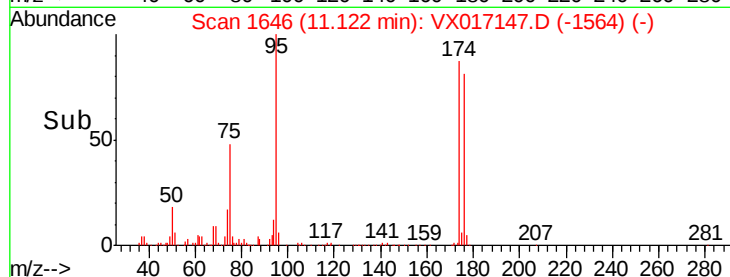
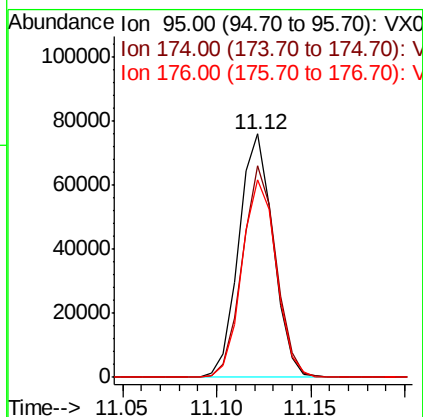
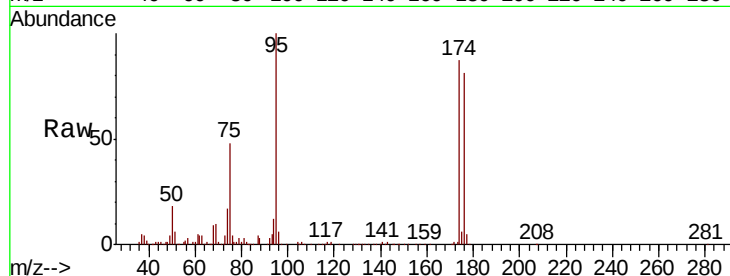




#60
4-Bromofluorobenzene
Concen: 29.148 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

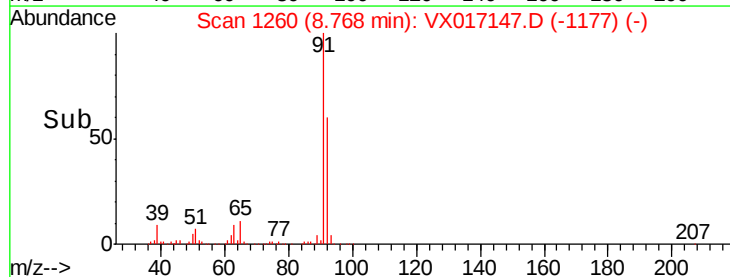
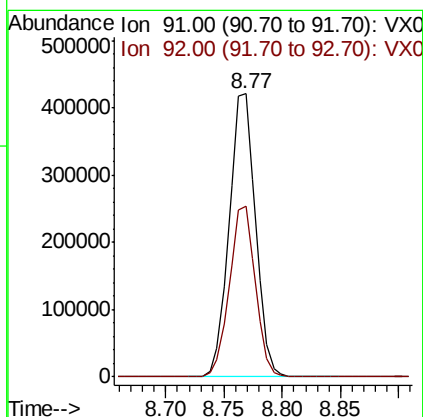
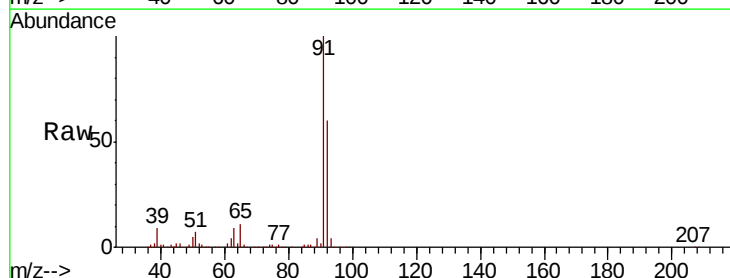
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD-(JULY)

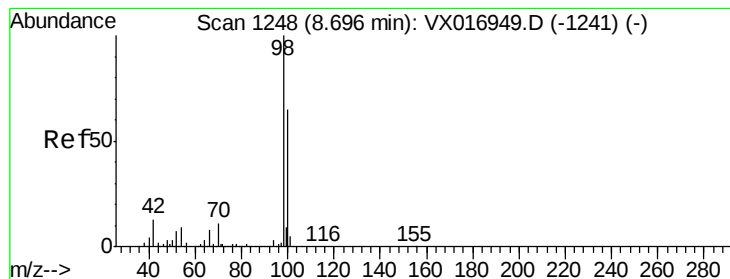
Tot Ion: 95 Resp: 96084
Ion Ratio Lower Upper
95 100
174 85.3 62.2 93.4
176 80.9 58.9 88.3



#62
Toluene
Concen: 61.578 ug/l
RT: 8.77 min Scan# 1260
Delta R.T. 0.01 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

Tgt Ion: 91 Resp: 665724
Ion Ratio Lower Upper
91 100
92 59.5 46.8 70.2





#63

Toluene-d8

Concen: 28.745 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017147.D

Acq: 02 Jul 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

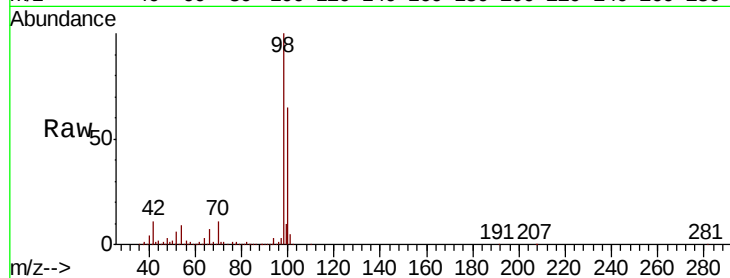
001-WILLETS-PT-BLVD-(JULY)

Tot Ion: 98 Resp: 250453

Ion Ratio Lower Upper

98 100

100 65.9 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.70

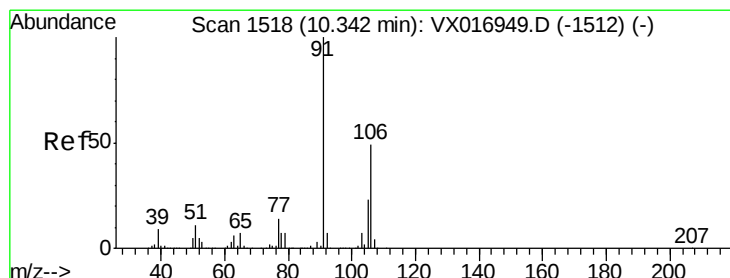
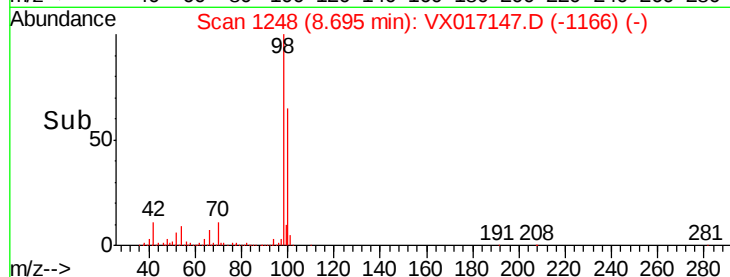
150000

100000

50000

0

Time--> 8.60 8.65 8.70 8.75 8.80



#67

m/p-Xylenes

Concen: 0.576 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX017147.D

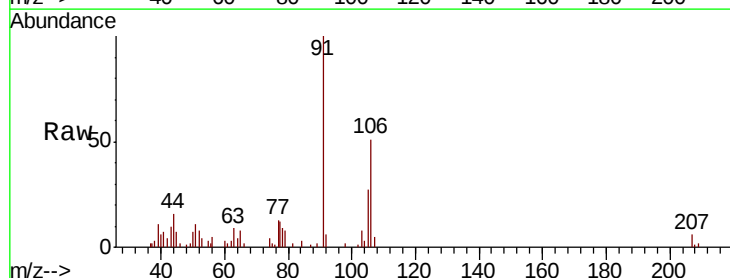
Acq: 02 Jul 2020 14:46

Tgt Ion:106 Resp: 2606

Ion Ratio Lower Upper

106 100

91 185.9 164.5 246.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

10.34

4000

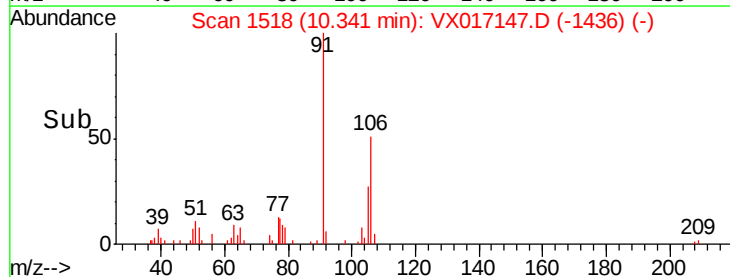
3000

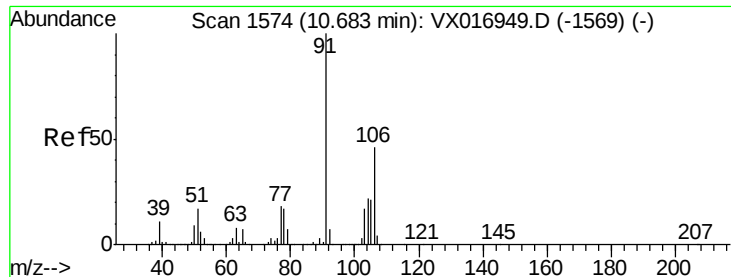
2000

1000

0

Time--> 10.30 10.35

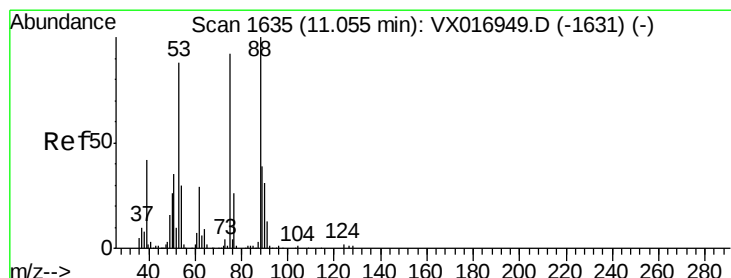
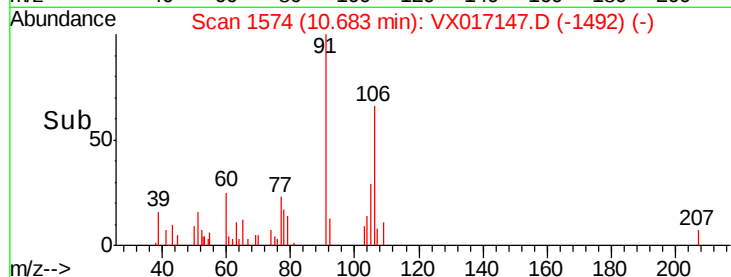
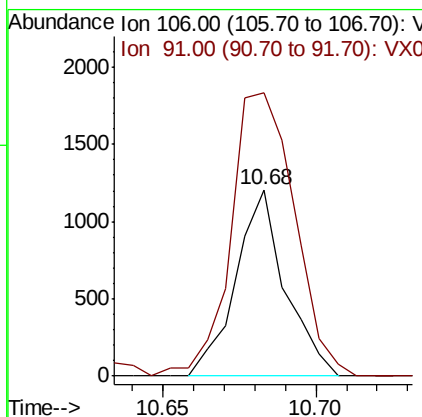
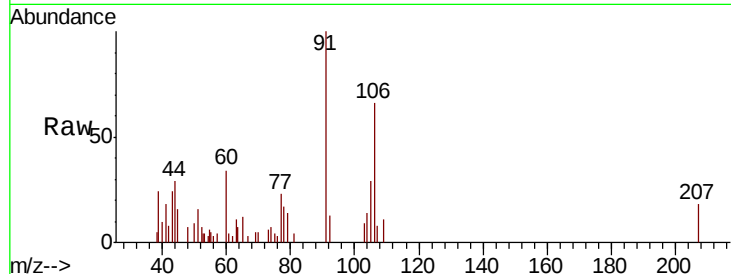




#68
o-Xylene
Concen: 0.312 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

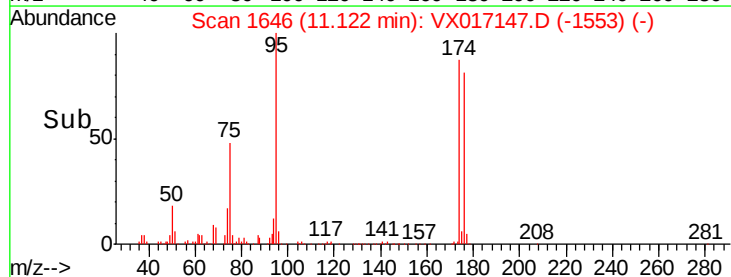
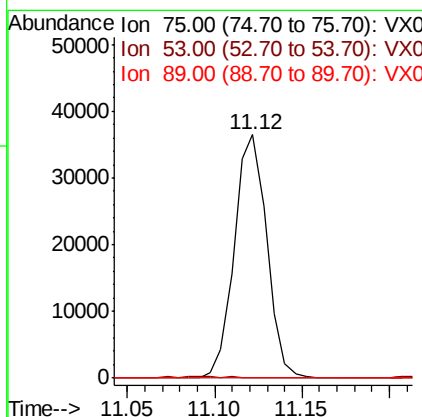
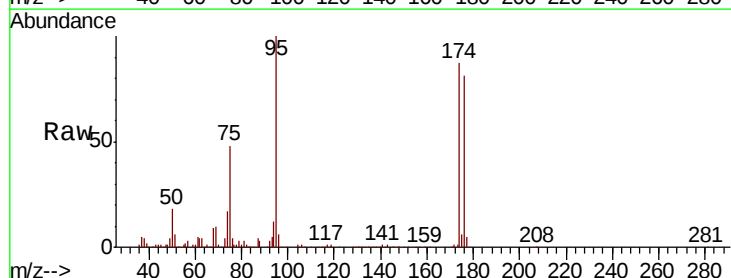
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD-(JULY)

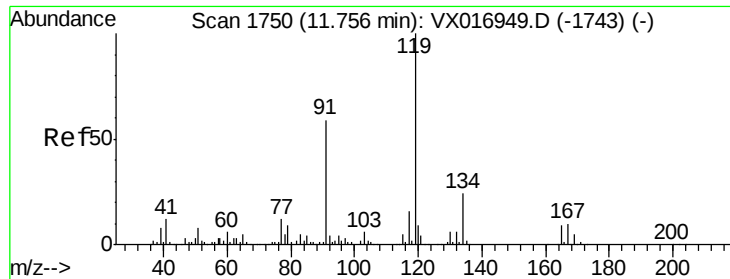
Tot Ion: 106 Resp: 1354
Ion Ratio Lower Upper
106 100
91 195.6 107.3 321.9



#77
t-1,4-Dichloro-2-butene
Concen: 33.515 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

Tgt Ion: 75 Resp: 47201
Ion Ratio Lower Upper
75 100
53 0.1 47.6 142.9#
89 0.0 21.1 63.4#

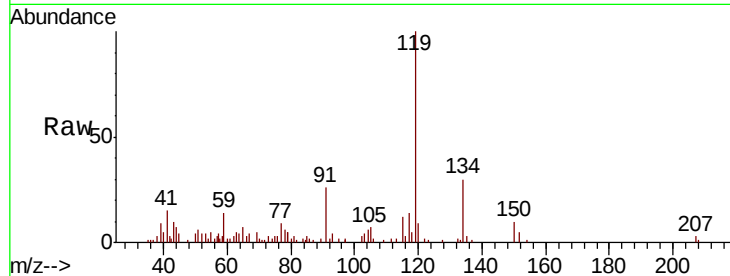




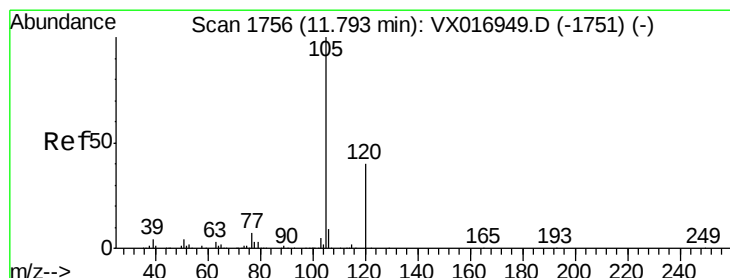
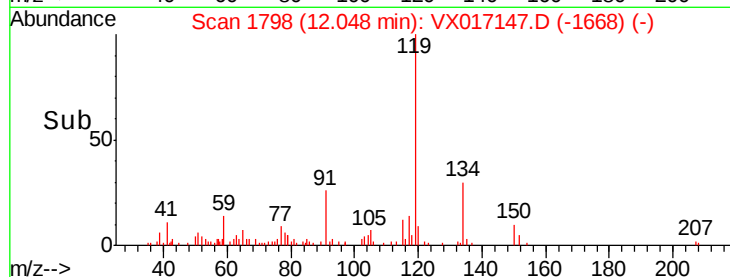
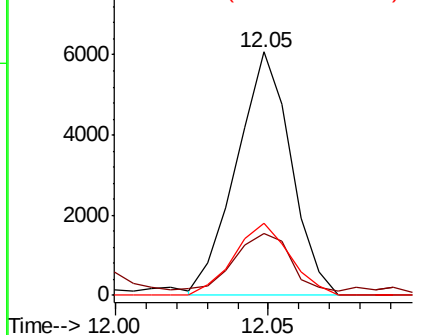
#79
tert-butylbenzene
Concen: 0.793 ug/l
RT: 12.05 min Scan# 1798
Delta R.T. 0.29 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD-(JULY)

Tot Ion:119 Resp: 7518
Ion Ratio Lower Upper
119 100
91 28.6 0.0 115.2
134 30.5 0.0 45.8

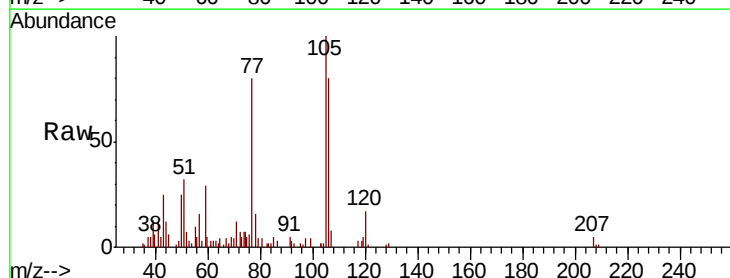


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VX0
Ion 134.00 (133.70 to 134.70): V

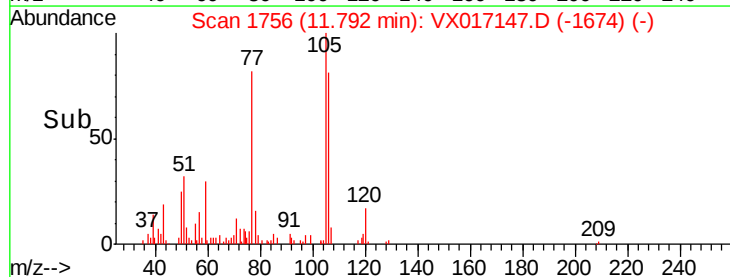
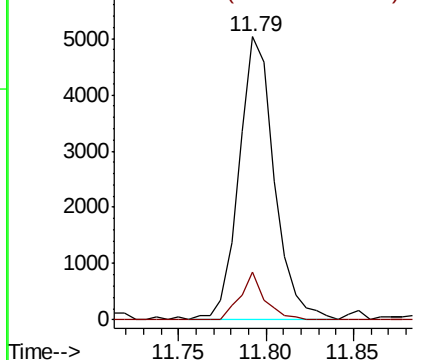


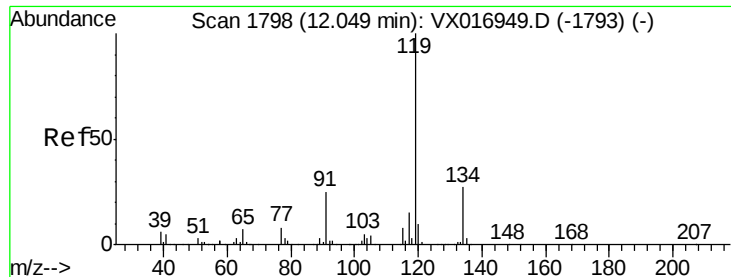
#80
1,2,4-Trimethylbenzene
Concen: 0.713 ug/l
RT: 11.79 min Scan# 1756
Delta R.T. -0.00 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

Tgt Ion:105 Resp: 7076
Ion Ratio Lower Upper
105 100
120 11.5 0.0 89.8



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

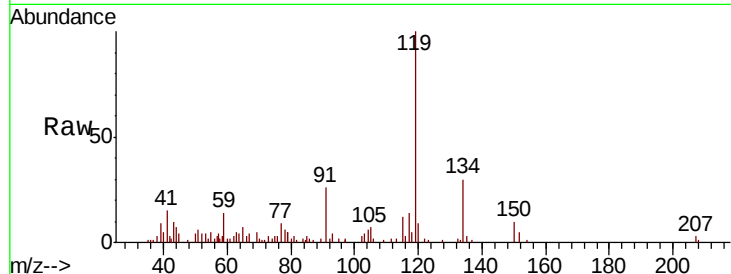




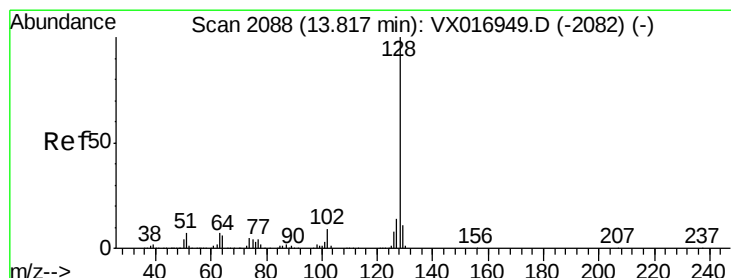
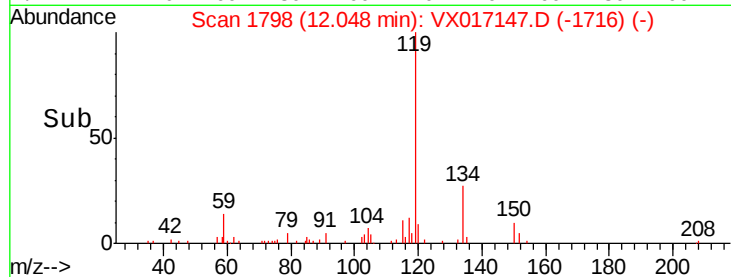
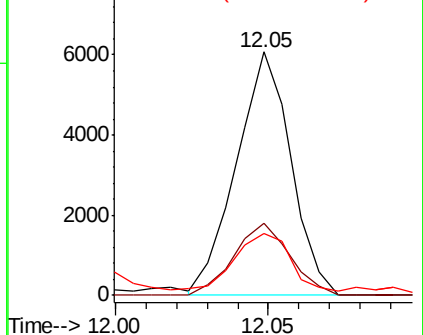
#82
p-Isopropyltoluene
Concen: 0.726 ug/l
RT: 12.05 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD-(JULY)

Tot Ion:119 Resp: 7518
Ion Ratio Lower Upper
119 100
134 30.5 0.0 53.0
91 24.3 0.0 49.0

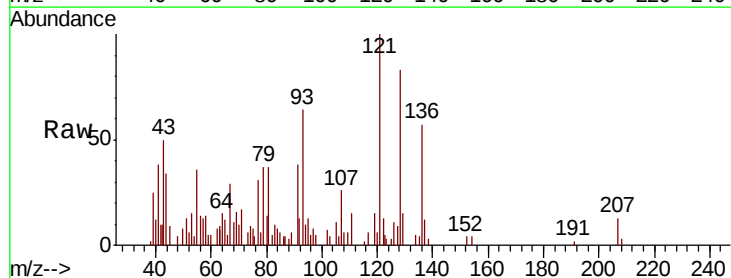


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V



#91
Naphthalene
Concen: 0.240 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. -0.00 min
Lab File: VX017147.D
Acq: 02 Jul 2020 14:46

Tgt Ion:128 Resp: 2649
Ion Ratio Lower Upper
128 100
127 12.6 10.5 15.7
129 19.6 9.0 13.4#



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

