

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070618\
 Data File : VX003217.D
 Acq On : 06 Jul 2018 15:54
 Operator : JC/MD
 Sample : J3894-01DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Jul 06 23:42:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 18 15:18:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	61575	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	325201	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	299584	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.07	65	130748	27.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	92.70%
60) 4-Bromofluorobenzene	11.14	95	139932	28.28	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.27%
63) Toluene-d8	8.72	98	372742	28.48	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.93%

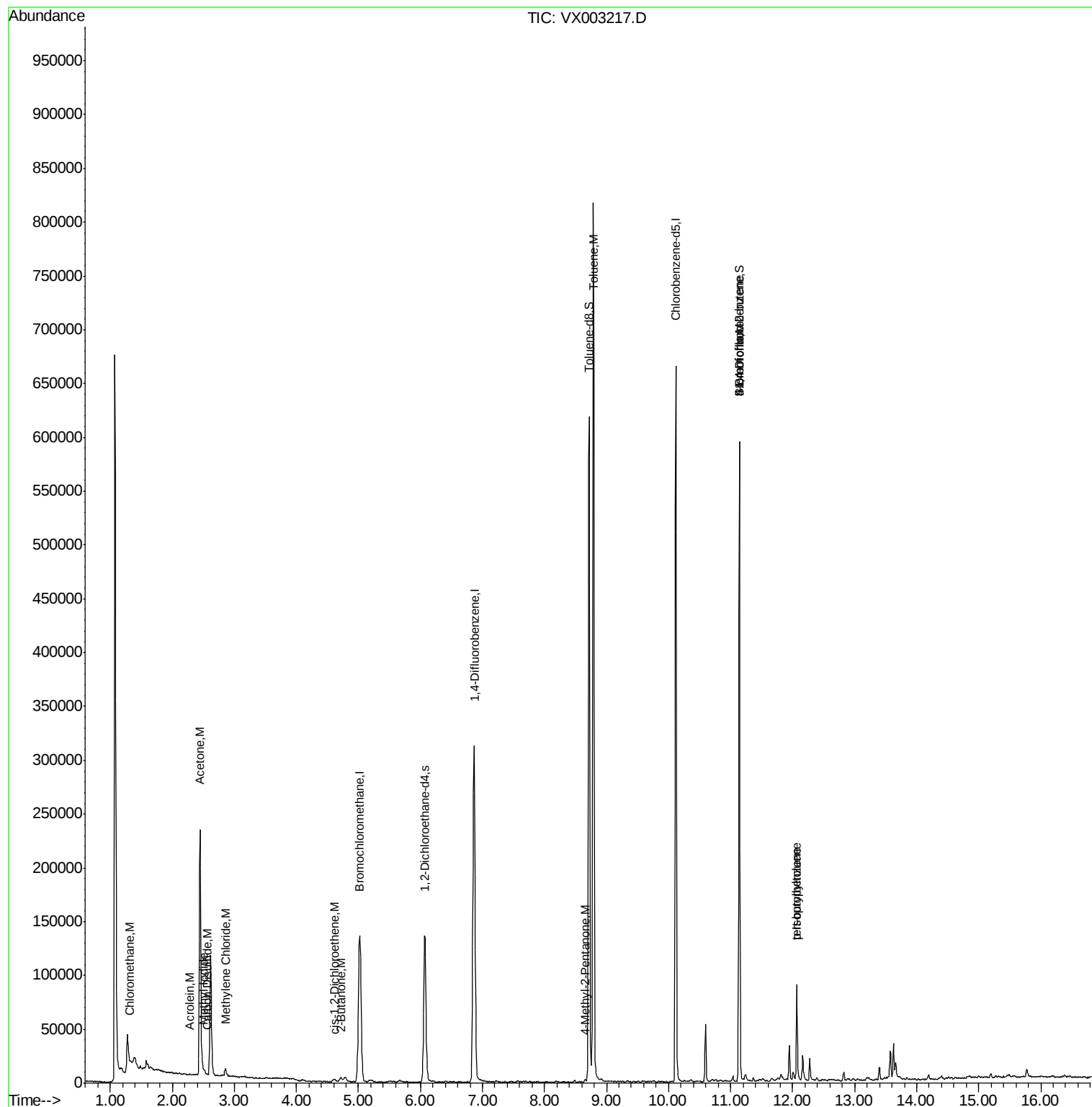
Target Compounds						Ovalue
3) Chloromethane	1.32	50	639	0.20	ug/l	93
11) Methyl Iodide	2.51	142	4940	1.35	ug/l	89
13) Acrolein	2.27	56	83	0.23	ug/l	96
15) Acetone	2.45	58	73824	136.70	ug/l	88
16) Carbon Disulfide	2.57	76	1910	0.24	ug/l	99
18) Methylene Chloride	2.86	84	3291	0.90	ug/l	93
22) cis-1,2-Dichloroethene	4.60	96	956	0.26	ug/l #	1
30) 2-Butanone	4.71	43	7165	2.85	ug/l #	64
56) Bromoform	11.14	173	1593	0.54	ug/l #	1
58) 4-Methyl-2-Pentanone	8.66	43	1798	0.35	ug/l #	97
62) Toluene	8.79	91	520772	36.06	ug/l	99
77) t-1,4-Dichloro-2-butene	11.14	75	69326	48.99	ug/l #	11
79) tert-butylbenzene	12.07	119	36543	2.30	ug/l	99
82) p-Isopropyltoluene	12.07	119	36543	2.30	ug/l	99

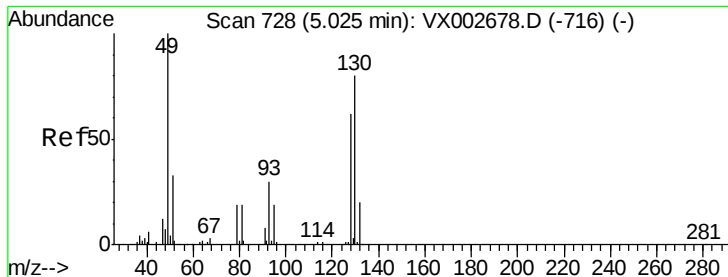
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jun 18 15:18:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX003217.D

Acq: 06 Jul 2018 15:54

Instrument :

MSVOA_X

ClientSampleId :

001M-WILLETS-PT-BLVD(JULY)DL

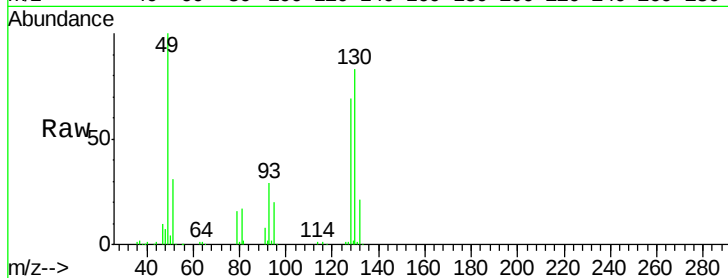
Tot Ion:128 Resp: 61575

Ion Ratio Lower Upper

128 100

49 148.5 0.0 423.0

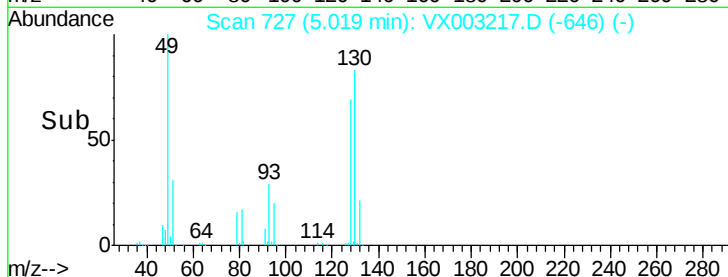
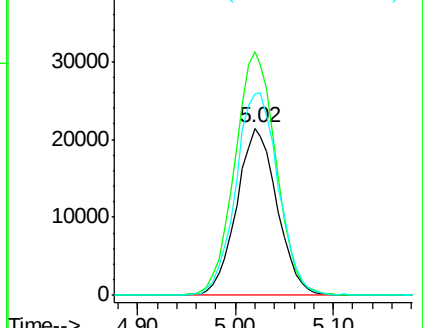
130 127.7 0.0 324.3



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: 0.20 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX003217.D

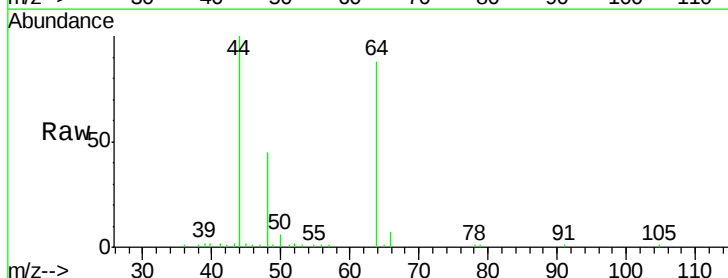
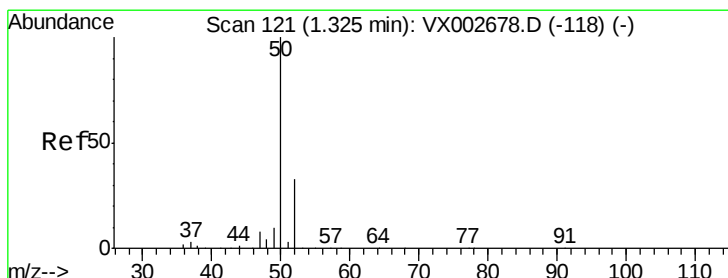
Acq: 06 Jul 2018 15:54

Tgt Ion: 50 Resp: 639

Ion Ratio Lower Upper

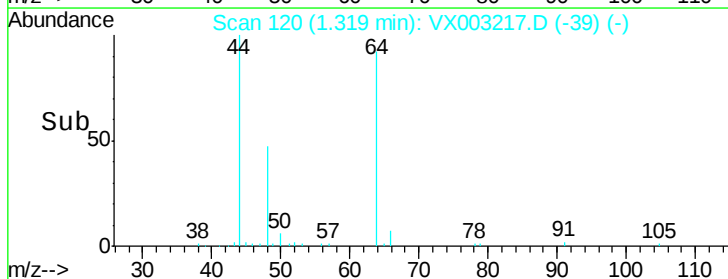
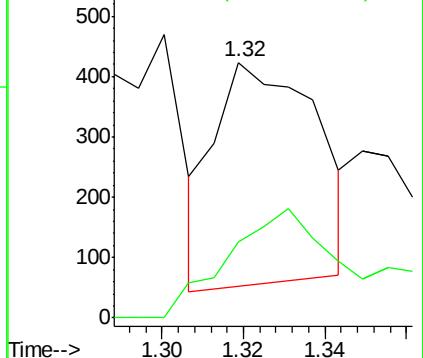
50 100

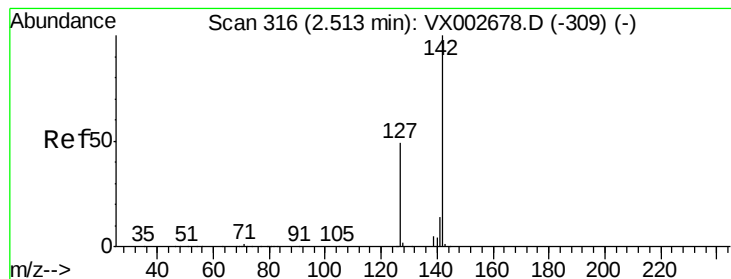
52 36.2 25.6 38.4



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#11

Methvl Iodide

Concen: 1.35 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.01 min

Lab File: VX003217.D

Acq: 06 Jul 2018 15:54

Instrument :

MSVOA_X

ClientSampleId :

001M-WILLETS-PT-BLVD(JULY)DL

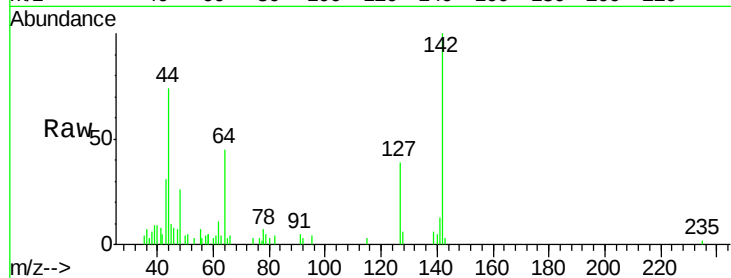
Tot Ion:142 Resp: 4940

Ion Ratio Lower Upper

142 100

127 37.6 23.2 69.6

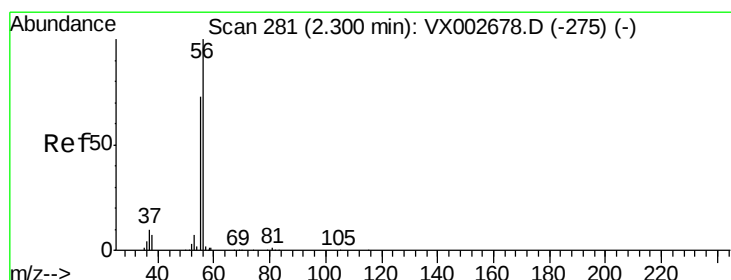
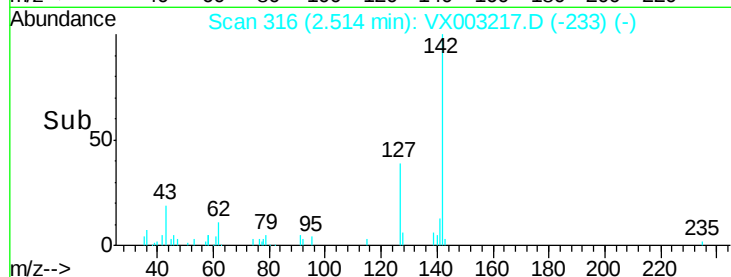
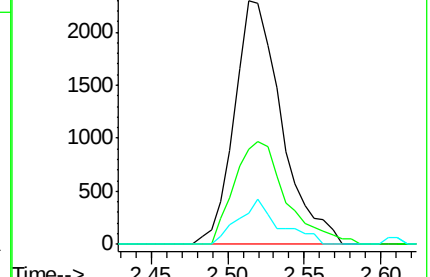
141 12.6 7.4 22.2



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



#13

Acrolein

Concen: 0.23 ug/l

RT: 2.27 min Scan# 276

Delta R.T. -0.03 min

Lab File: VX003217.D

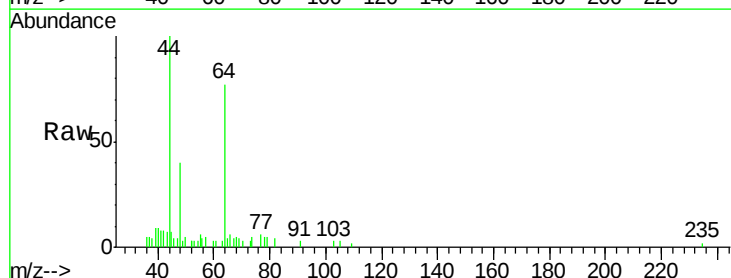
Acq: 06 Jul 2018 15:54

Tgt Ion: 56 Resp: 83

Ion Ratio Lower Upper

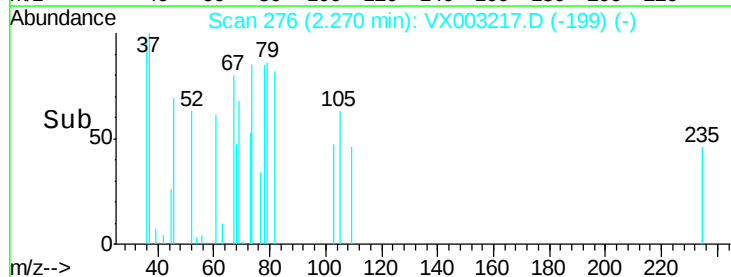
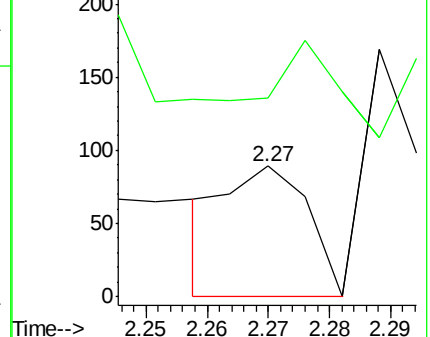
56 100

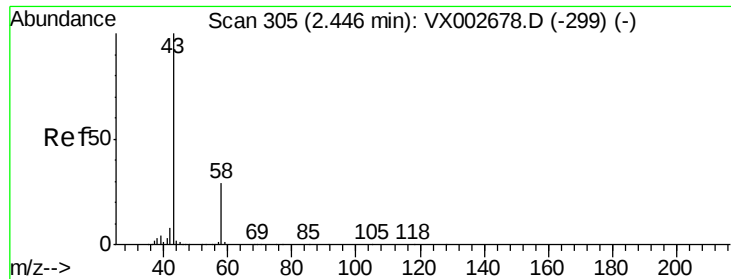
55 68.7 57.3 85.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 136.70 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003217.D

Acq: 06 Jul 2018 15:54

Instrument :

MSVOA_X

ClientSampleId :

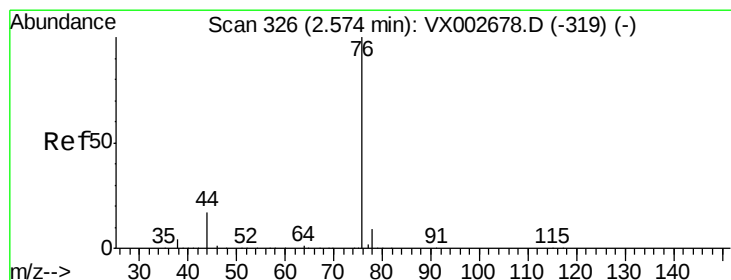
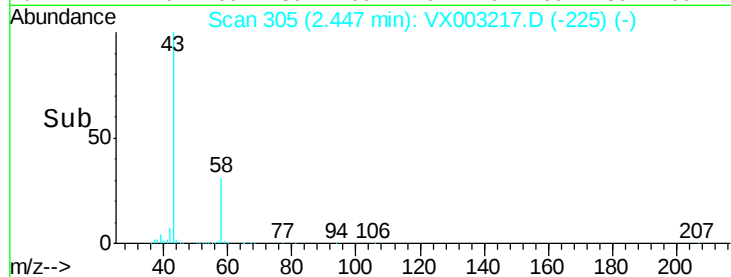
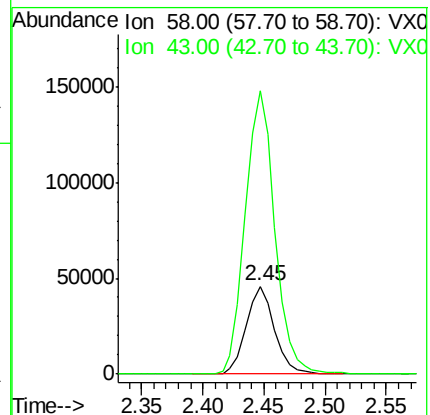
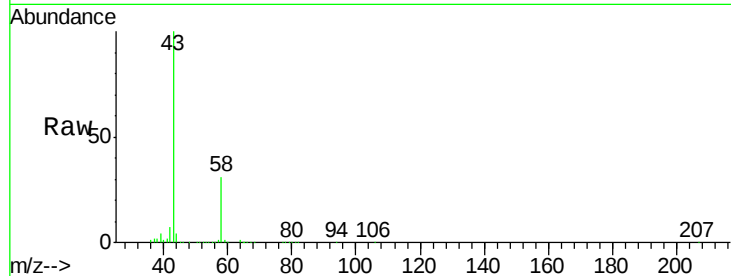
001M-WILLETS-PT-BLVD(JULY)DL

Tot Ion: 58 Resp: 73824

Ion Ratio Lower Upper

58 100

43 322.0 278.8 418.2



#16

Carbon Disulfide

Concen: 0.24 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003217.D

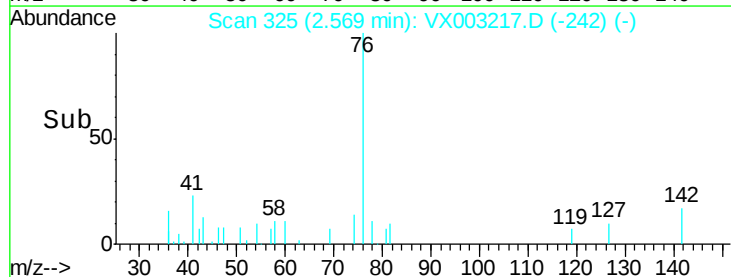
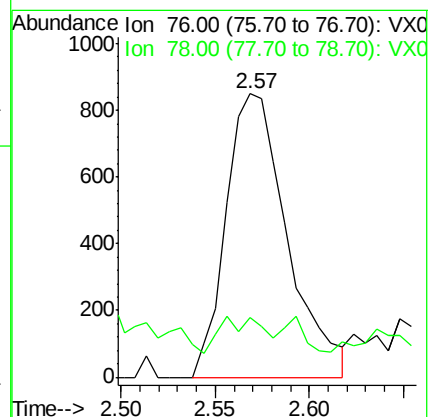
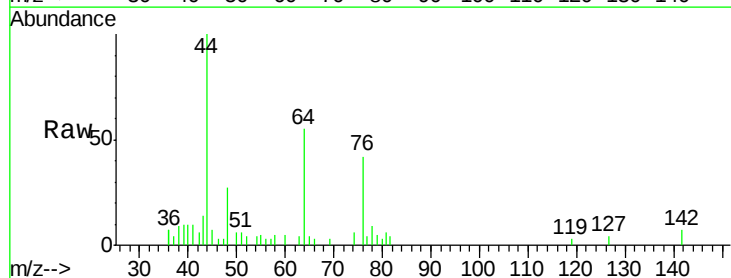
Acq: 06 Jul 2018 15:54

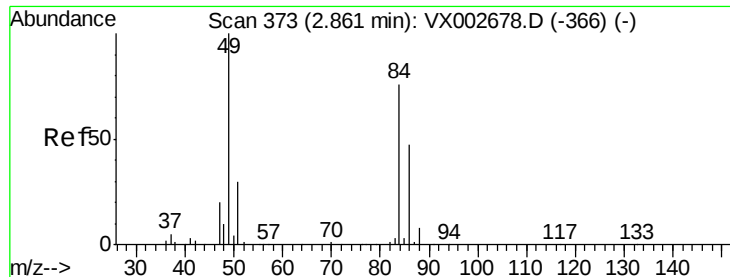
Tgt Ion: 76 Resp: 1910

Ion Ratio Lower Upper

76 100

78 9.5 7.4 11.0





#18

Methylene Chloride

Concen: 0.90 ug/l

RT: 2.86 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX003217.D

Acq: 06 Jul 2018 15:54

Instrument :

MSVOA_X

ClientSampleId :

001M-WILLETS-PT-BLVD(JULY)DL

Tot Ion: 84 Resp: 3291

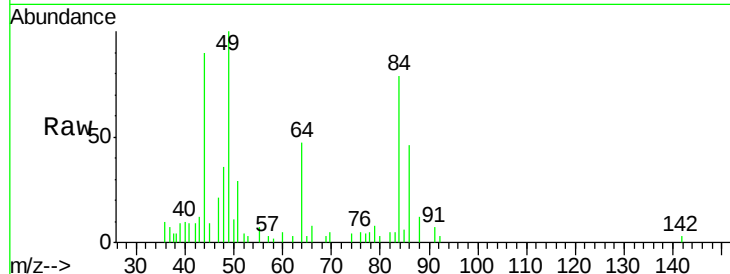
Ion Ratio Lower Upper

84 100

49 122.8 104.7 157.1

51 32.6 31.0 46.4

86 58.4 50.8 76.2

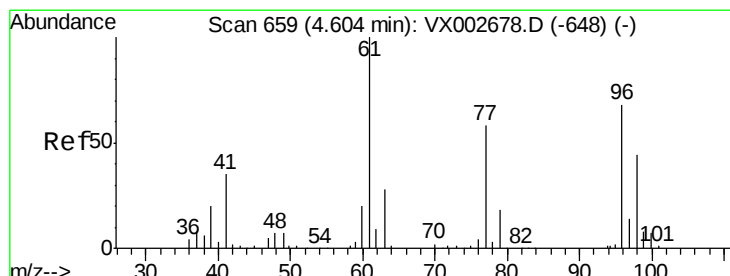
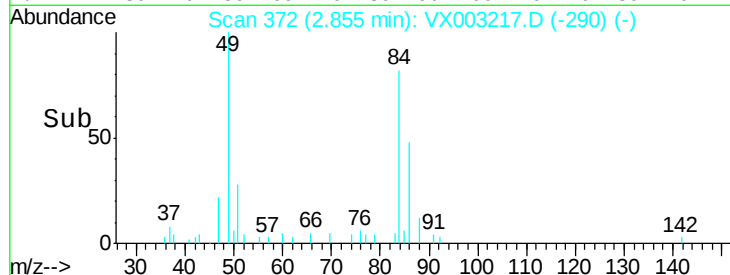
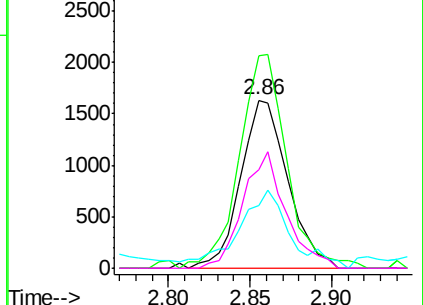


Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#22

cis-1,2-Dichloroethene

Concen: 0.26 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.00 min

Lab File: VX003217.D

Acq: 06 Jul 2018 15:54

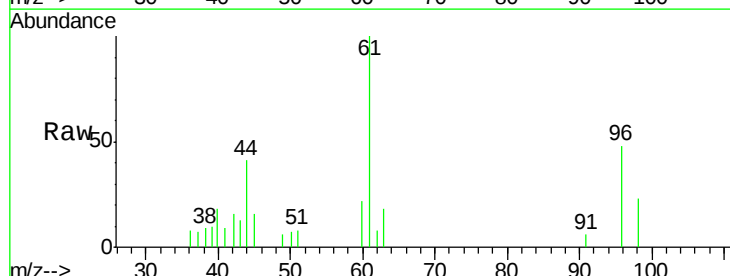
Tgt Ion: 96 Resp: 956

Ion Ratio Lower Upper

96 100

61 386.5 160.2 240.2#

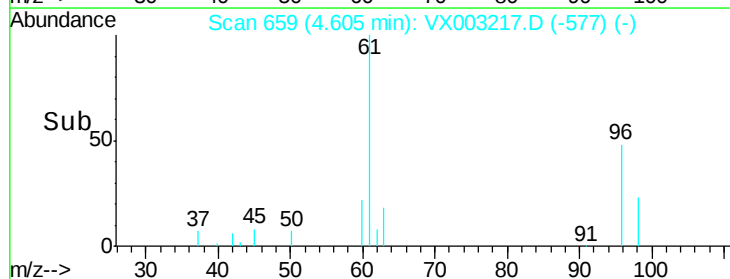
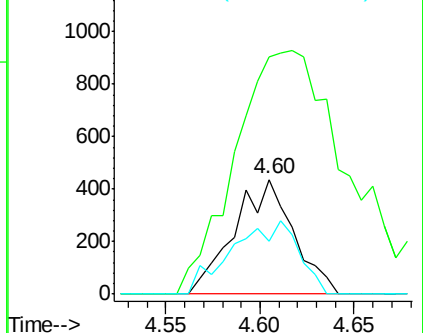
98 24.8 54.1 81.1#

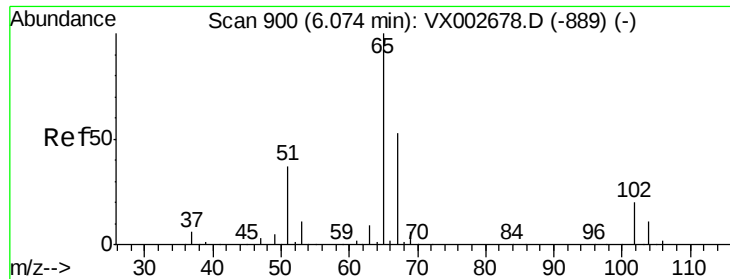


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 27.81 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.01 min

Lab File: VX003217.D

Acq: 06 Jul 2018 15:54

Instrument :

MSVOA_X

ClientSampleId :

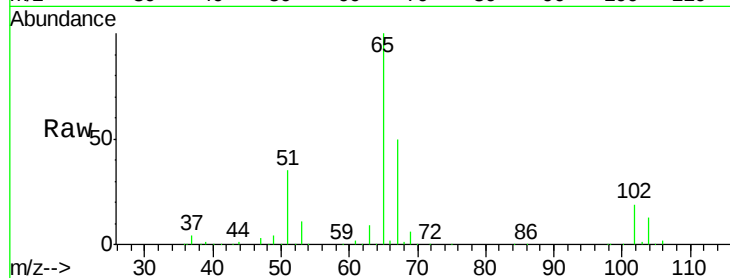
001M-WILLETS-PT-BLVD(JULY)DL

Tot Ion: 65 Resp: 130748

Ion Ratio Lower Upper

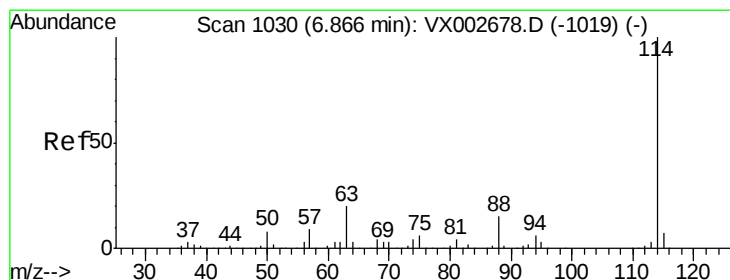
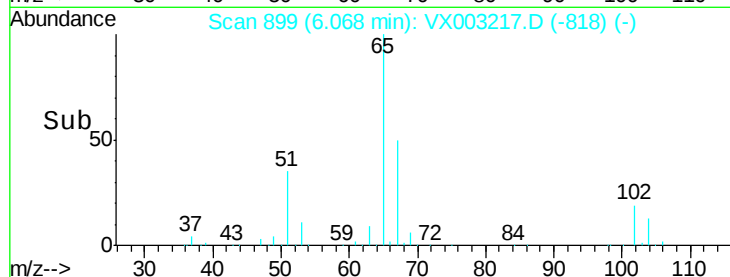
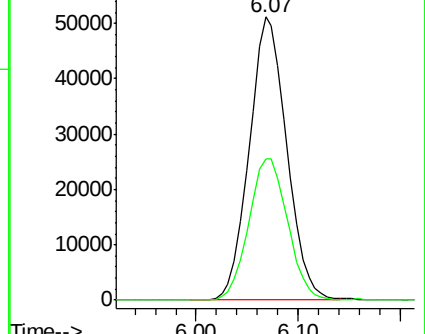
65 100

67 51.9 40.9 61.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003217.D

Acq: 06 Jul 2018 15:54

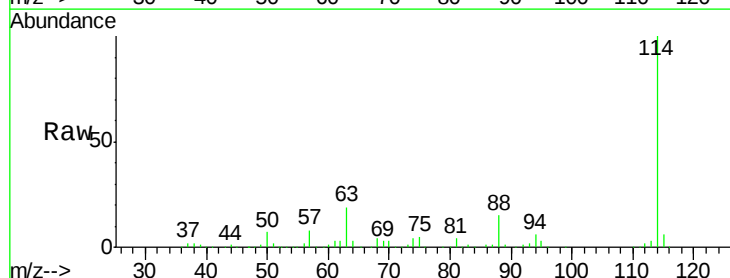
Tgt Ion: 114 Resp: 325201

Ion Ratio Lower Upper

114 100

63 19.7 17.1 25.7

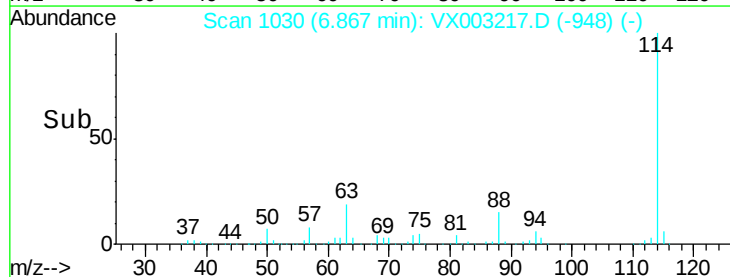
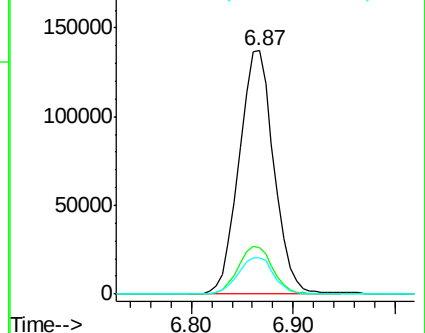
88 15.3 12.6 19.0

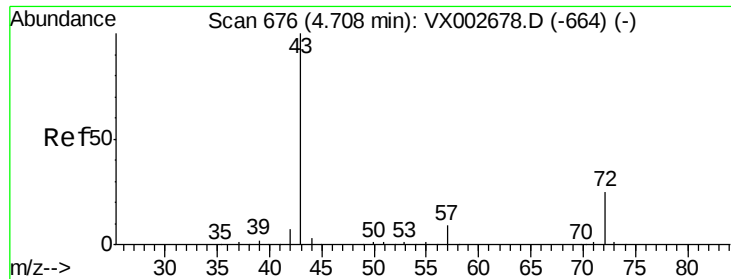


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

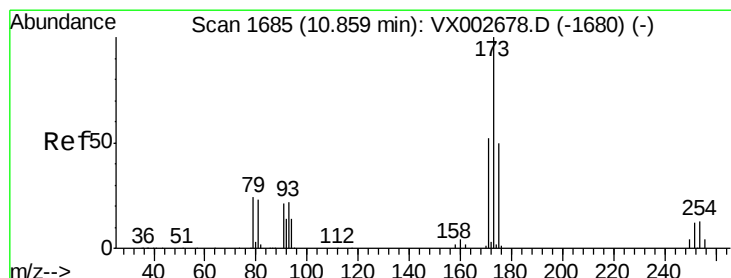
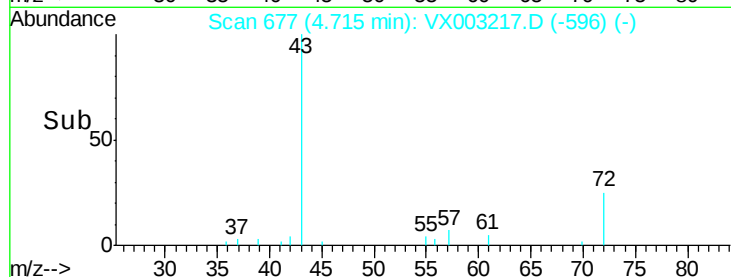
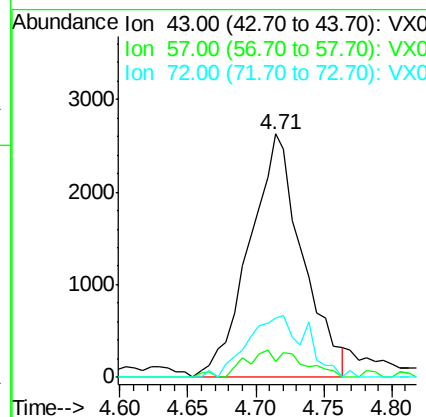
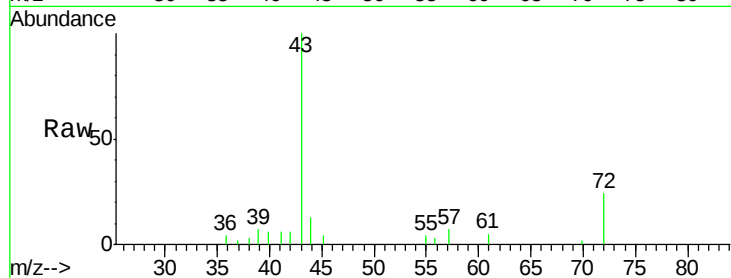




#30
2-Butanone
Concen: 2.85 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.01 min
Lab File: VX003217.D
Acq: 06 Jul 2018 15:54

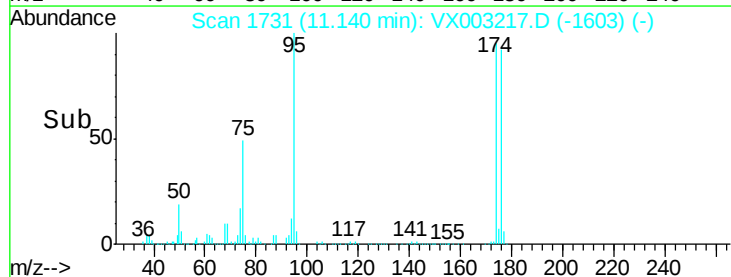
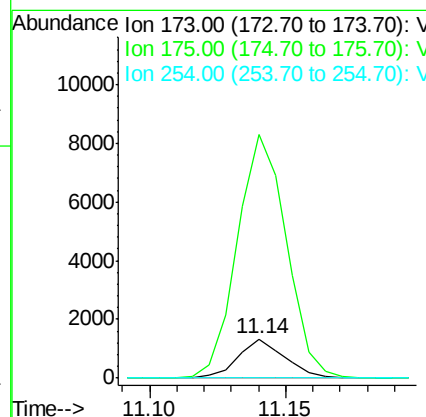
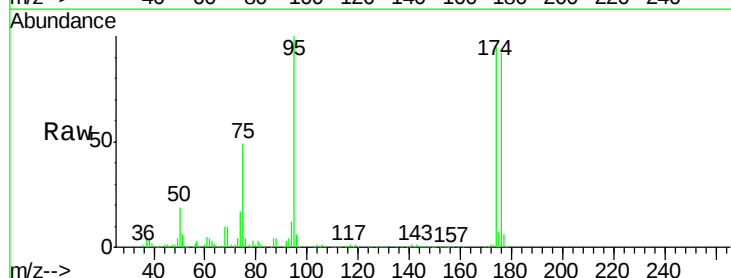
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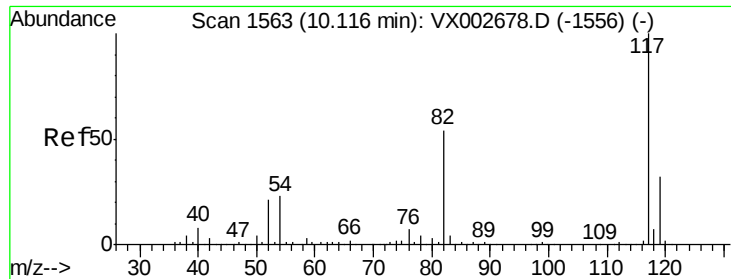
Tot Ion: 43 Resp: 7165
Ion Ratio Lower Upper
43 100
57 6.1 6.1 9.1
72 0.0 18.1 27.1#



#56
Bromoform
Concen: 0.54 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.28 min
Lab File: VX003217.D
Acq: 06 Jul 2018 15:54

Tgt Ion:173 Resp: 1593
Ion Ratio Lower Upper
173 100
175 653.4 39.0 58.4#
254 0.0 9.6 14.4#

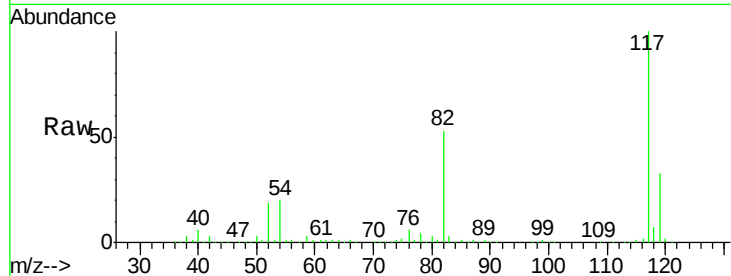




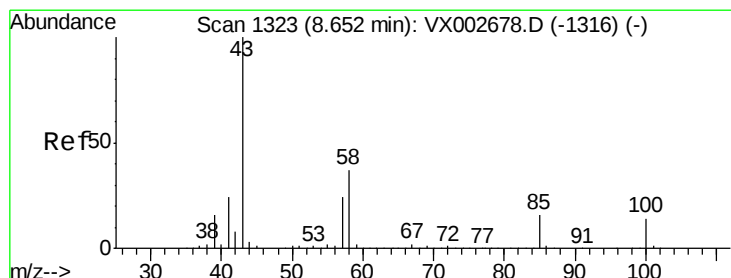
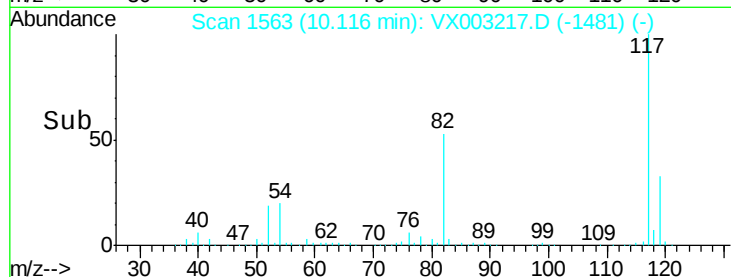
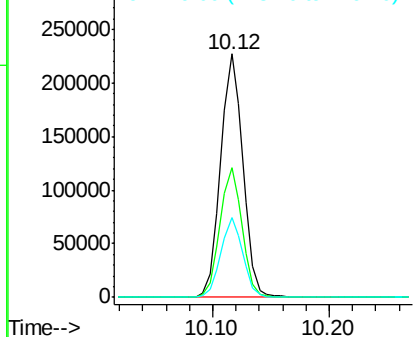
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003217.D
Acq: 06 Jul 2018 15:54

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

Tot Ion:117 Resp: 299584
Ion Ratio Lower Upper
117 100
82 52.9 44.3 66.5
119 32.2 25.7 38.5

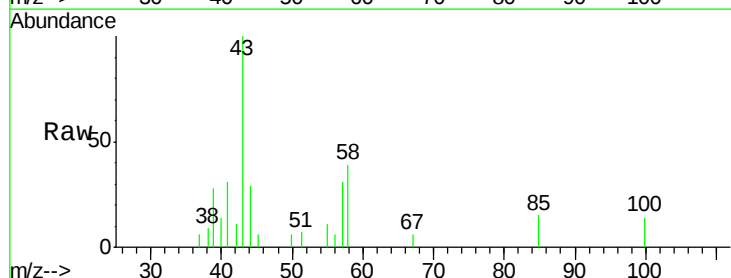


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 119.00 (118.70 to 119.70): V

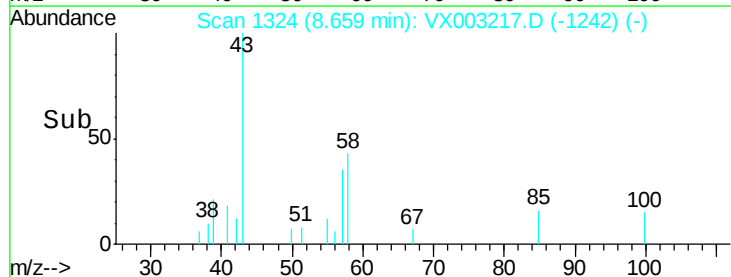
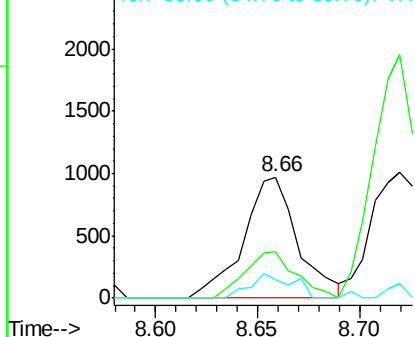


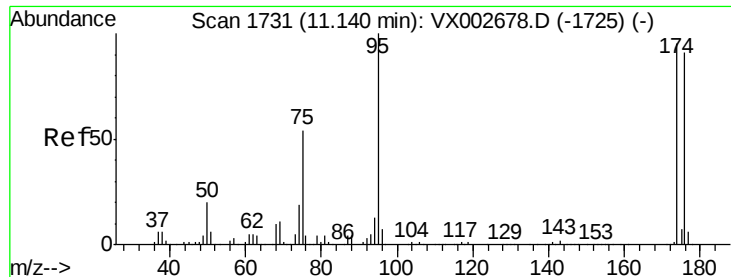
#58
4-Methyl-2-Pentanone
Concen: 0.35 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.00 min
Lab File: VX003217.D
Acq: 06 Jul 2018 15:54

Tgt Ion: 43 Resp: 1798
Ion Ratio Lower Upper
43 100
58 36.0 28.2 42.4
85 12.3 12.4 18.6#



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

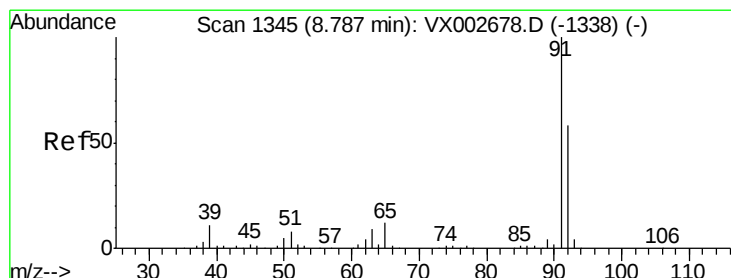
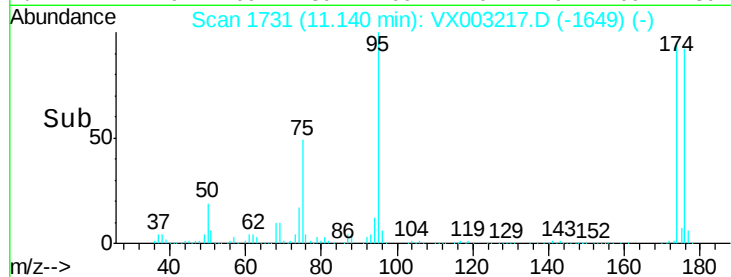
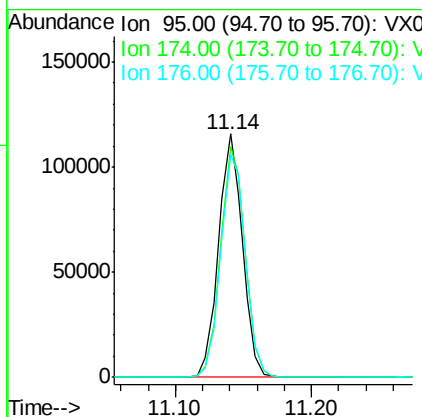
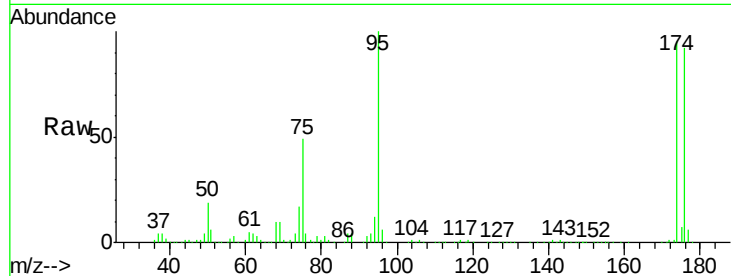




#60
4-Bromofluorobenzene
Concen: 28.28 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003217.D
Acq: 06 Jul 2018 15:54

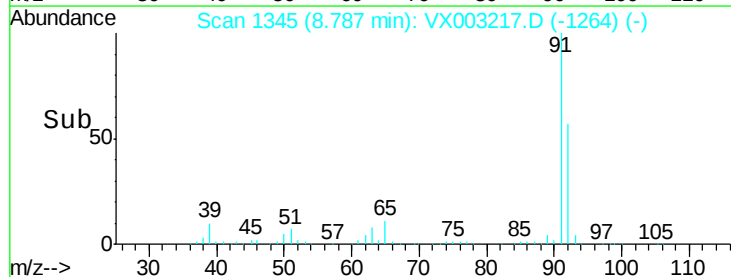
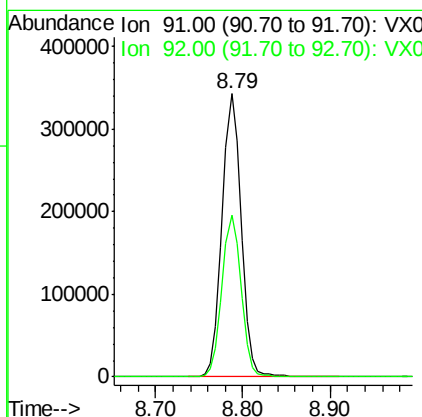
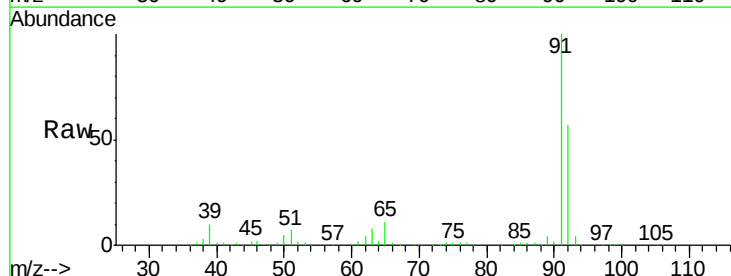
Instrument :
MSVOA_X
ClientSampleId :
001M-WILLETS-PT-BLVD(JULY)DL

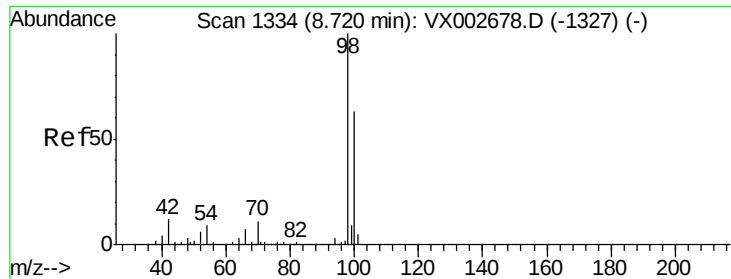
Tot Ion: 95 Resp: 139932
Ion Ratio Lower Upper
95 100
174 97.5 71.8 107.6
176 94.9 70.1 105.1



#62
Toluene
Concen: 36.06 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. -0.01 min
Lab File: VX003217.D
Acq: 06 Jul 2018 15:54

Tgt Ion: 91 Resp: 520772
Ion Ratio Lower Upper
91 100
92 57.3 46.5 69.7





#63

Toluene-d8

Concen: 28.48 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003217.D

Acq: 06 Jul 2018 15:54

Instrument :

MSVOA_X

ClientSampleId :

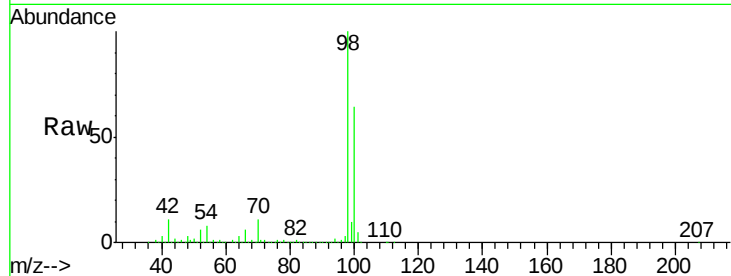
001M-WILLETS-PT-BLVD(JULY)DL

Tot Ion: 98 Resp: 372742

Ion Ratio Lower Upper

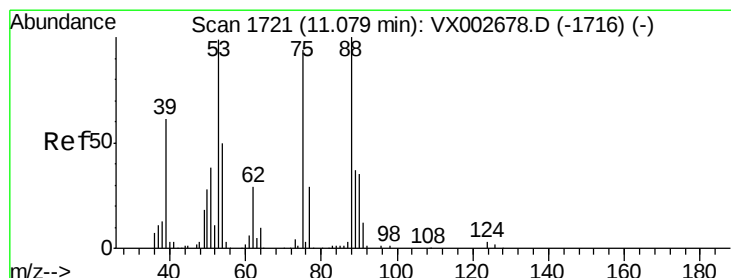
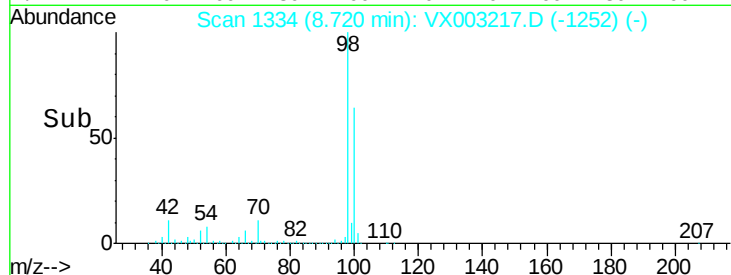
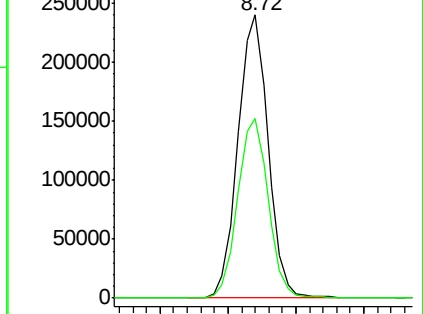
98 100

100 64.4 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#77

t-1,4-Dichloro-2-butene

Concen: 48.99 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003217.D

Acq: 06 Jul 2018 15:54

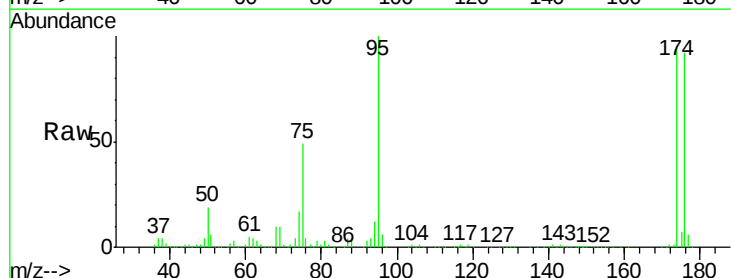
Tgt Ion: 75 Resp: 69326

Ion Ratio Lower Upper

75 100

53 0.3 48.3 144.9#

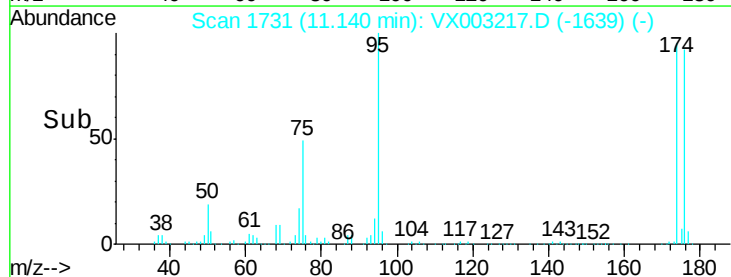
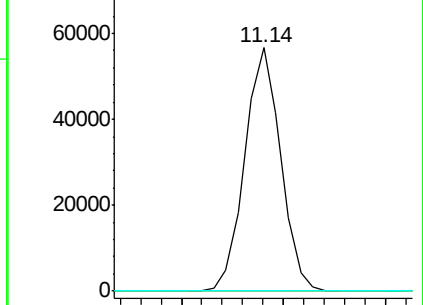
89 0.0 21.8 65.4#

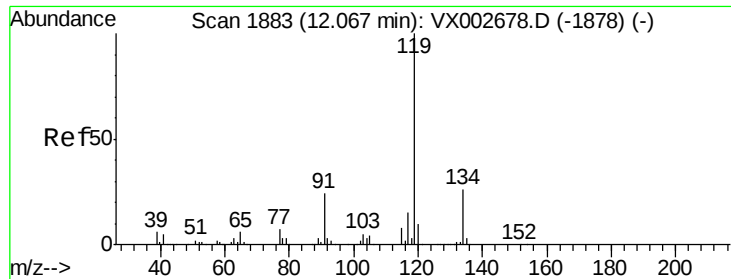


Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0

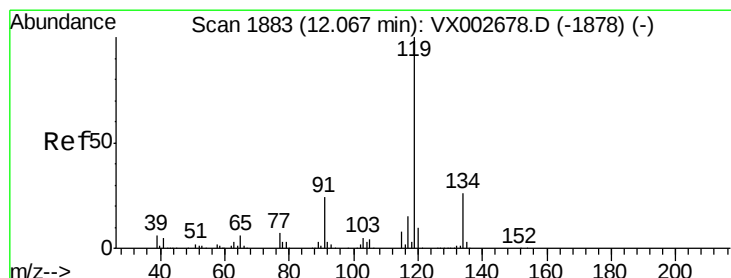
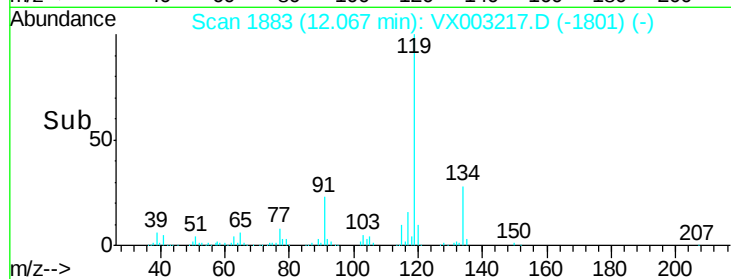
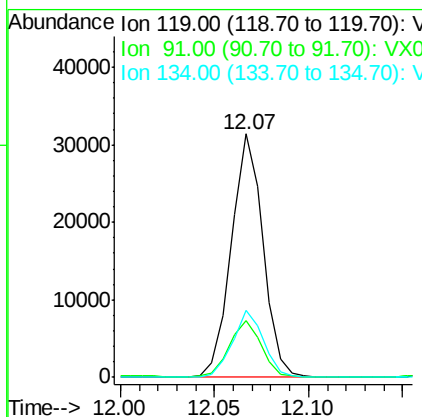
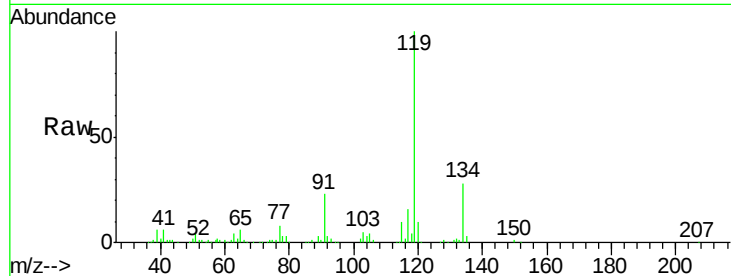




#79
tert-butylbenzene
Concen: 2.30 ug/l
RT: 12.07 min Scan# 1883
Delta R.T. 0.00 min
Lab File: VX003217.D
Acq: 06 Jul 2018 15:54

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

Tot Ion:119 Resp: 36543
Ion Ratio Lower Upper
119 100
91 23.2 0.0 48.0
134 27.0 0.0 52.6



#82
p-Isopropyltoluene
Concen: 2.30 ug/l
RT: 12.07 min Scan# 1883
Delta R.T. 0.00 min
Lab File: VX003217.D
Acq: 06 Jul 2018 15:54

Tgt Ion:119 Resp: 36543
Ion Ratio Lower Upper
119 100
134 27.0 0.0 52.6
91 23.2 0.0 48.0

