

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022620\
 Data File : VX015023.D
 Acq On : 26 Feb 2020 16:07
 Operator : JC/SP
 Sample : L1683-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WEST-DITCHLN-20200225

Quant Time: Feb 27 02:56:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 10 12:09:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	416676	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	661407	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	643700	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	329674	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	238866	50.80	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.60%		
35) Dibromofluoromethane	5.49	113	204489	50.29	ug/l	0.00
Spiked Amount 50.000			Recovery =	100.58%		
50) Toluene-d8	8.71	98	797358	51.37	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.74%		
62) 4-Bromofluorobenzene	11.13	95	293861	52.56	ug/l	0.00
Spiked Amount 50.000			Recovery =	105.12%		

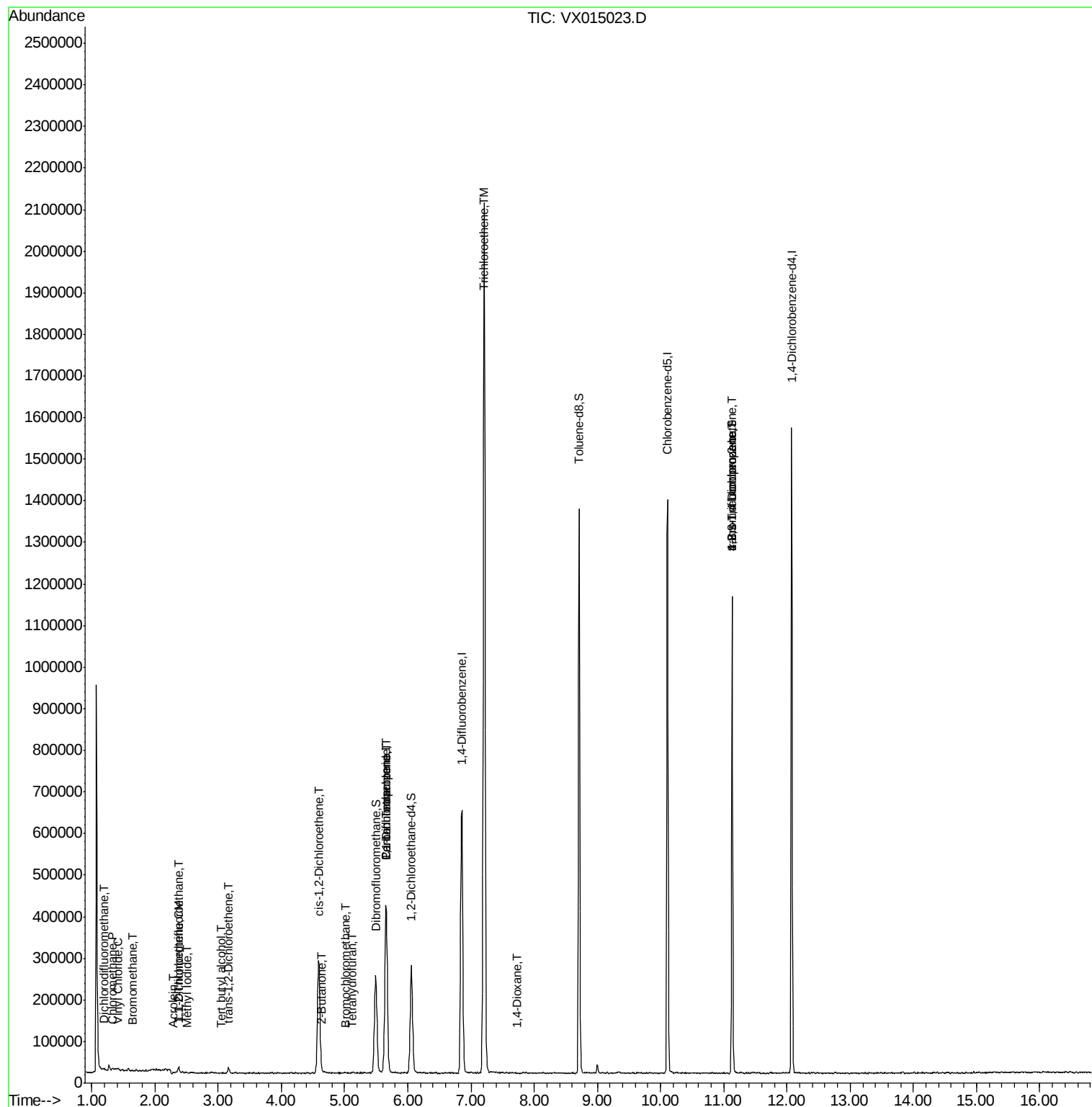
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1458	0.369	ug/l	82
3) Chloromethane	1.32	50	1591	0.356	ug/l #	54
4) Vinyl Chloride	1.40	62	1721	0.357	ug/l	93
5) Bromomethane	1.65	94	776	0.249	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1737	0.444	ug/l #	65
10) Methyl Iodide	2.51	142	252	4.421	ug/l #	1
11) Tert butyl alcohol	3.04	59	411	0.495	ug/l #	20
12) 1,1-Dichloroethene	2.37	96	4859	1.272	ug/l	97
13) Acrolein	2.28	56	388	0.613	ug/l #	15
16) Acetone	2.44	43	3563	Below Cal		96
21) trans-1,2-Dichloroethene	3.16	96	6084	1.444	ug/l	86
25) 2-Butanone	4.65	43	714	0.223	ug/l #	65
27) cis-1,2-Dichloroethene	4.59	96	177581	37.696	ug/l	89
28) Bromochloromethane	5.01	49	836	0.295	ug/l #	16
29) Tetrahydrofuran	5.12	42	473	0.260	ug/l #	70
36) 1,1-Dichloropropene	5.65	75	28164	4.760	ug/l #	52
38) Carbon Tetrachloride	5.65	117	36674	6.361	ug/l #	14
44) Trichloroethene	7.21	130	846744	165.002	ug/l	98
49) 1,4-Dioxane	7.73	88	360	3.843	ug/l #	45
76) 1,2,3-Trichloropropane	11.13	75	144899	24.305	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	144899	62.215	ug/l #	12

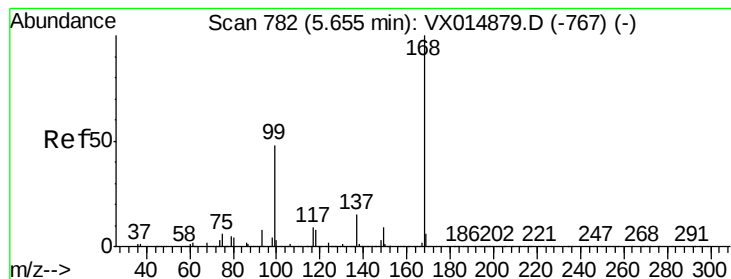
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX015023.D

Acq: 26 Feb 2020 16:07

Instrument :

MSVOA_X

ClientSampleId :

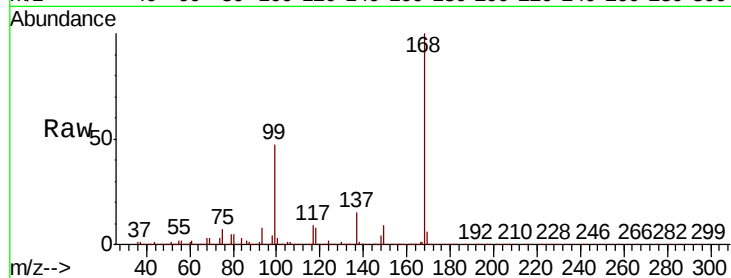
WEST-DITCHLN-20200225

Tot Ion:168 Resp: 416676

Ion Ratio Lower Upper

168 100

99 47.3 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

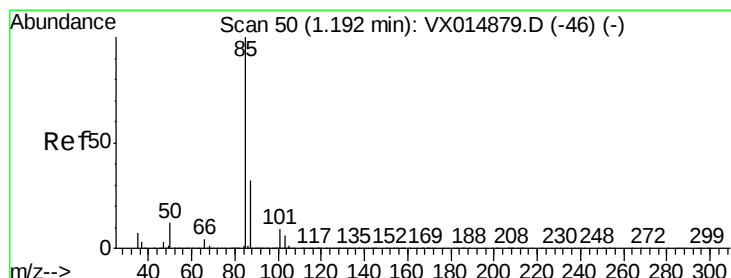
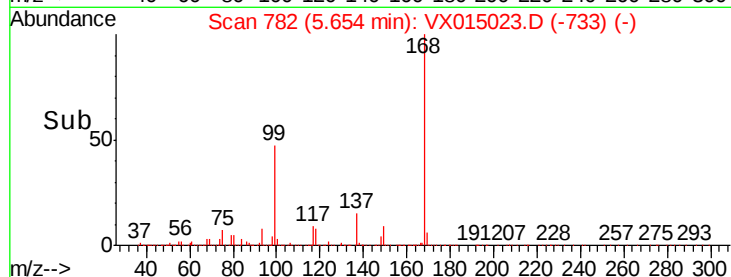
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.369 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX015023.D

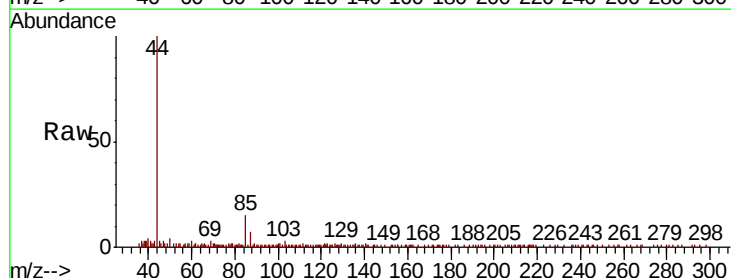
Acq: 26 Feb 2020 16:07

Tgt Ion: 85 Resp: 1458

Ion Ratio Lower Upper

85 100

87 42.1 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

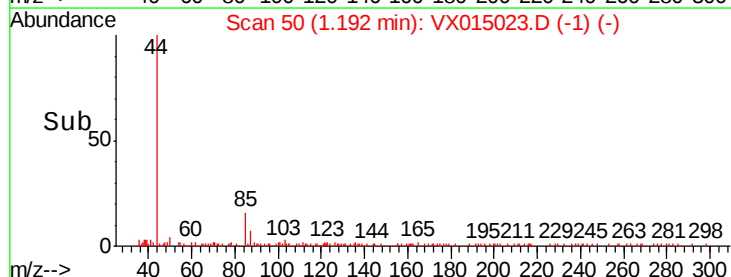
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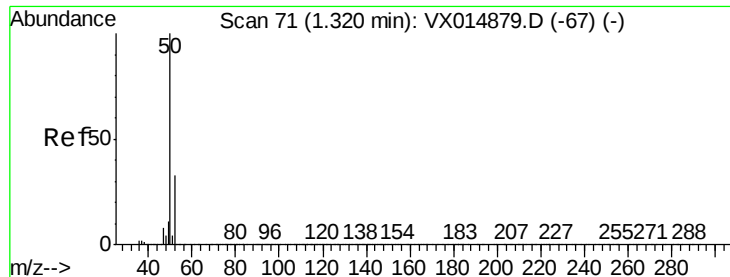
1000

500

0

Time-->





#3

Chloromethane

Concen: 0.356 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX015023.D

Acq: 26 Feb 2020 16:07

Instrument :

MSVOA_X

ClientSampleId :

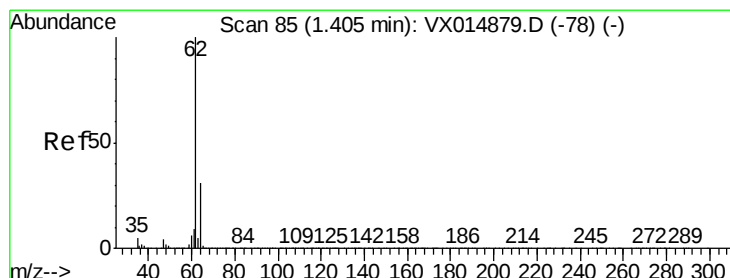
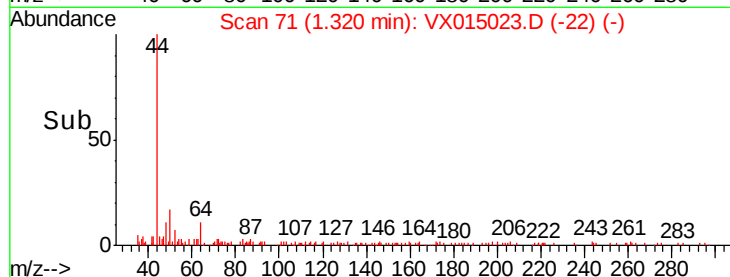
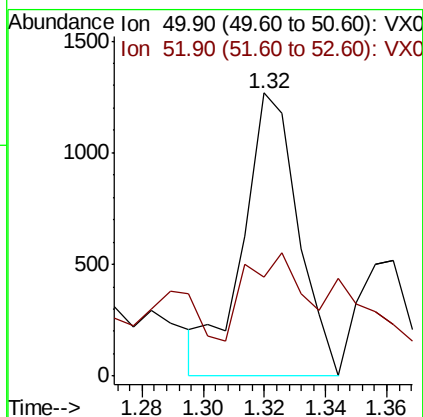
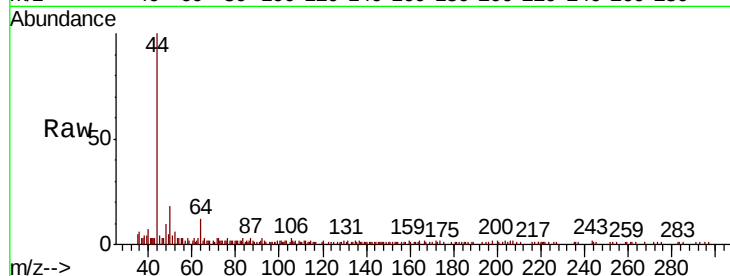
WEST-DITCHLN-20200225

Tot Ion: 50 Resp: 1591

Ion Ratio Lower Upper

50 100

52 7.0 26.2 39.2#



#4

Vinyl Chloride

Concen: 0.357 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.01 min

Lab File: VX015023.D

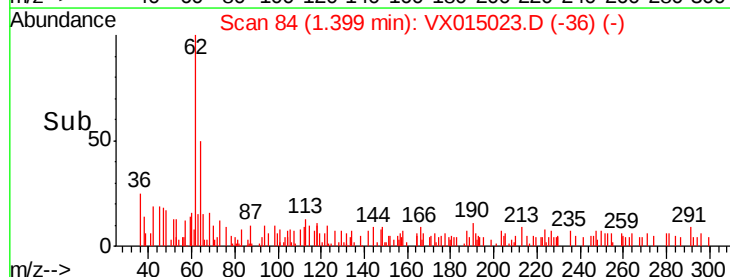
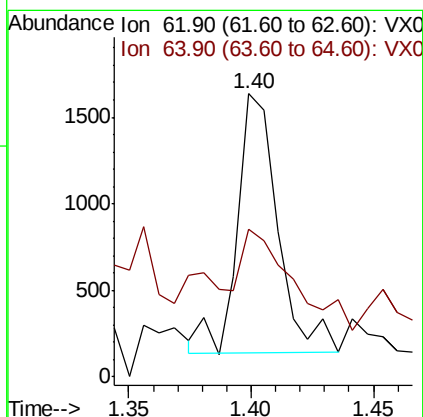
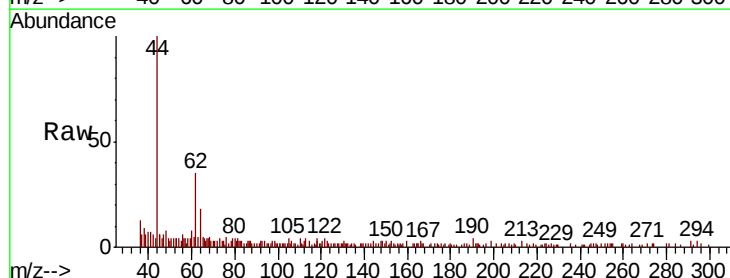
Acq: 26 Feb 2020 16:07

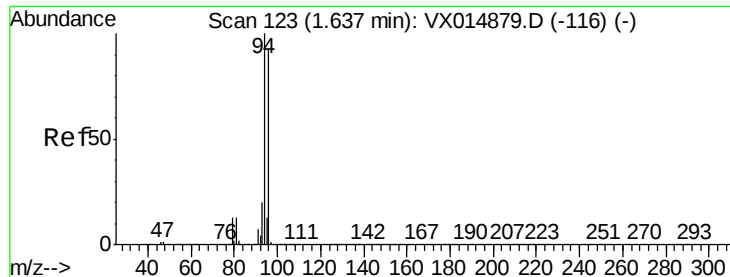
Tgt Ion: 62 Resp: 1721

Ion Ratio Lower Upper

62 100

64 27.4 24.8 37.2





#5

Bromomethane

Concen: 0.249 ug/l

RT: 1.65 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX015023.D

Acq: 26 Feb 2020 16:07

Instrument :

MSVOA_X

ClientSampleId :

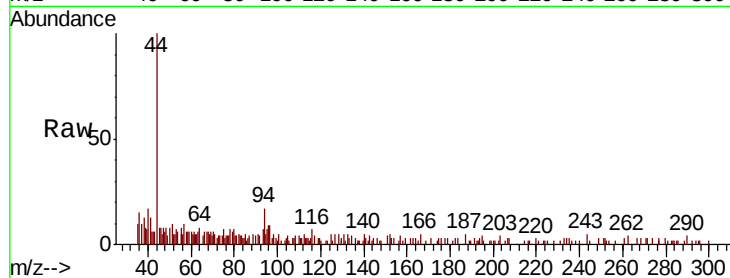
WEST-DITCHLN-20200225

Tot Ion: 94 Resp: 776

Ion Ratio Lower Upper

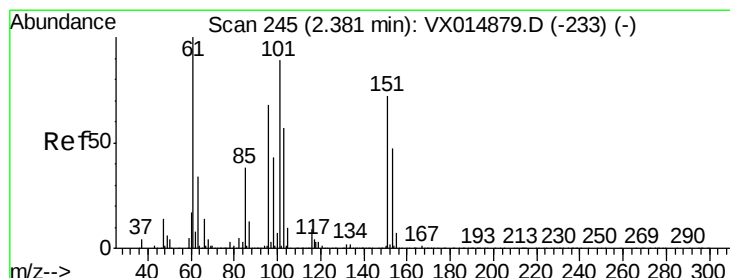
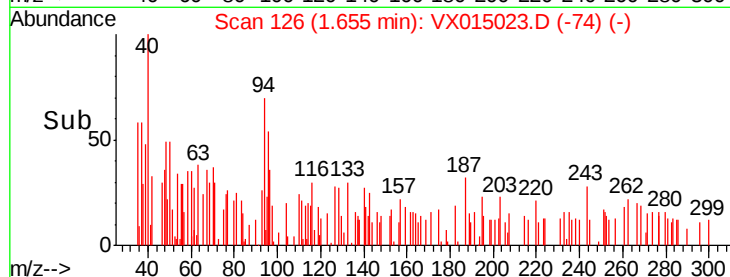
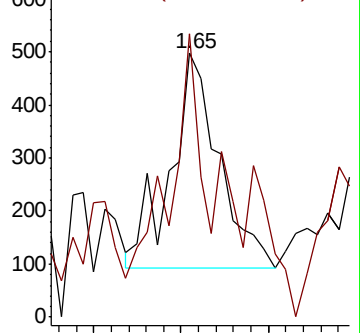
94 100

96 85.5 73.7 110.5



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.444 ug/l

RT: 2.39 min Scan# 246

Delta R.T. 0.01 min

Lab File: VX015023.D

Acq: 26 Feb 2020 16:07

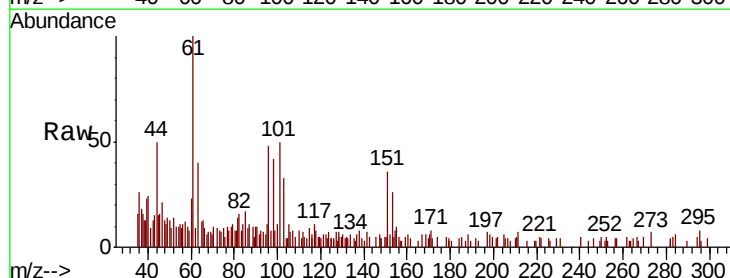
Tgt Ion: 101 Resp: 1737

Ion Ratio Lower Upper

101 100

85 0.0 34.1 51.1#

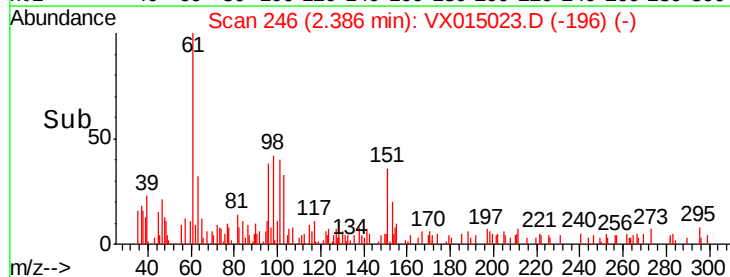
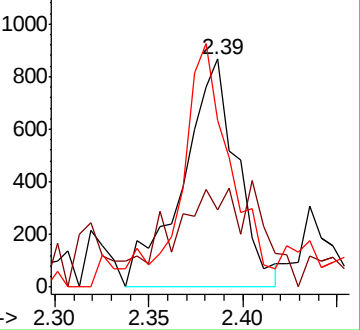
151 100.9 67.3 100.9#

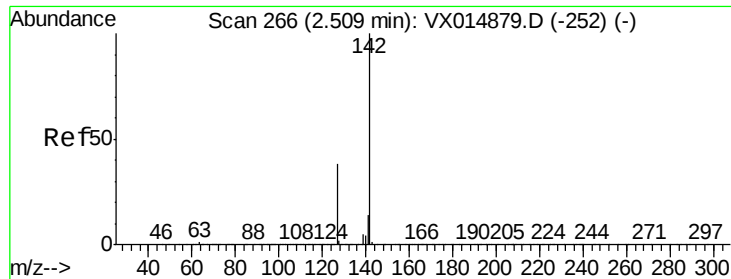


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

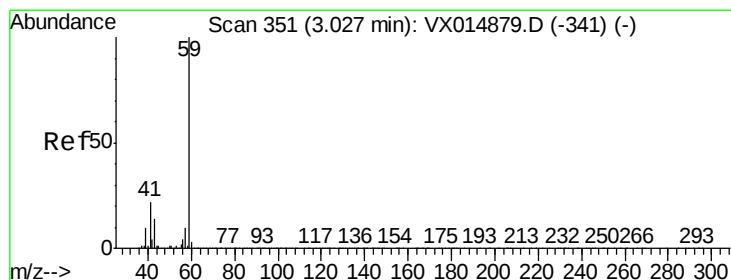
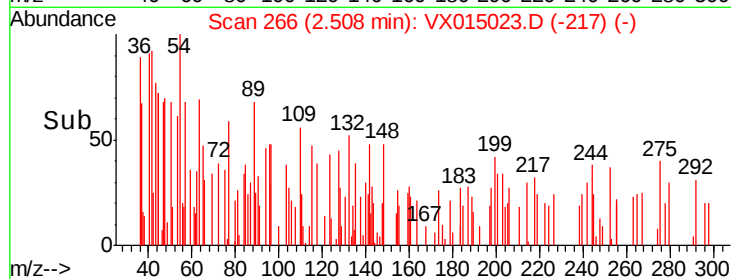
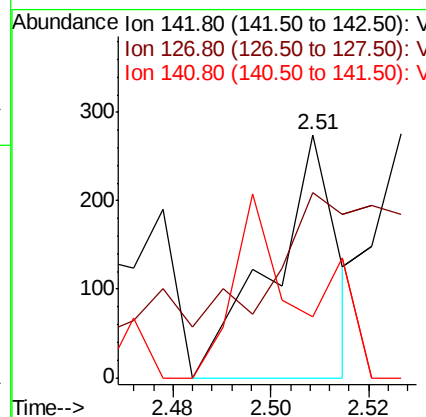
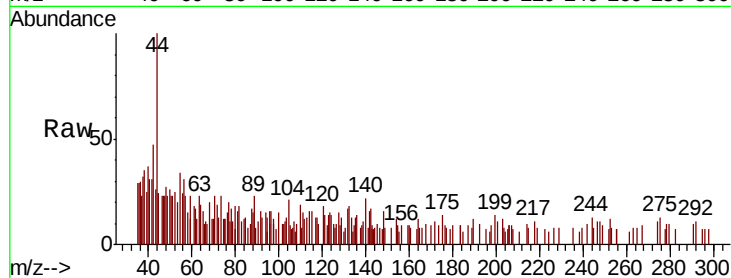




#10
Methyl Iodide
Concen: 4.421 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

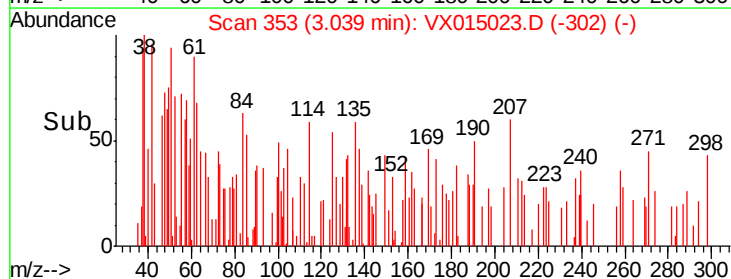
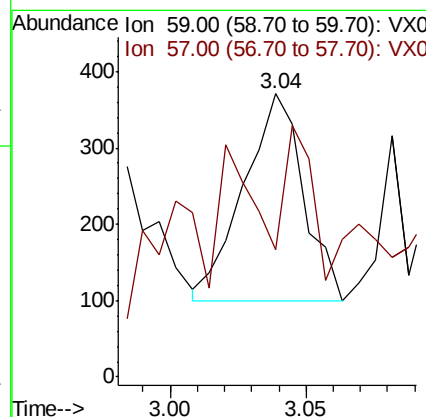
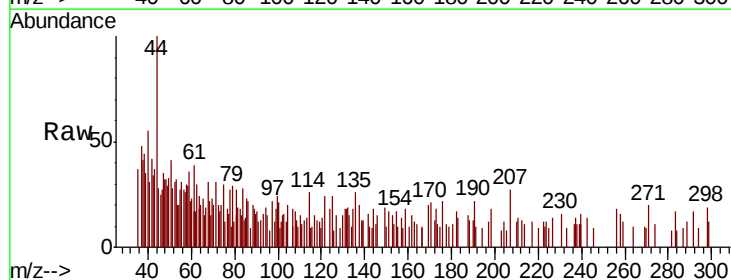
Instrument :
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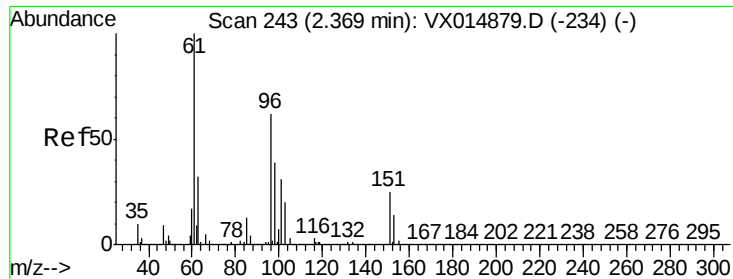
Tot Ion:142 Resp: 252
Ion Ratio Lower Upper
142 100
127 175.4 31.1 46.7#
141 81.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.495 ug/l
RT: 3.04 min Scan# 353
Delta R.T. 0.01 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

Tgt Ion: 59 Resp: 411
Ion Ratio Lower Upper
59 100
57 40.1 8.2 12.4#

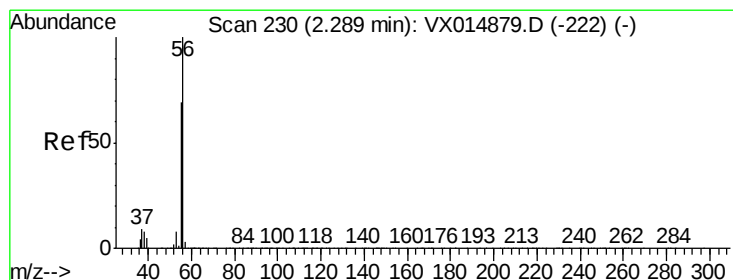
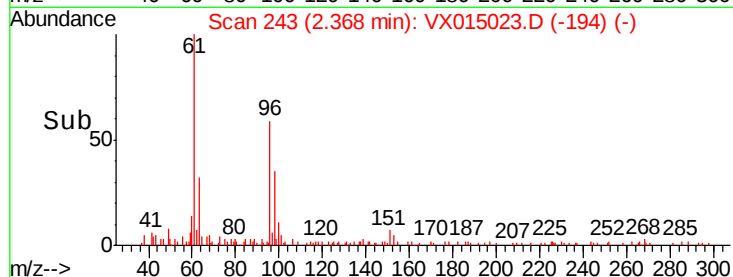
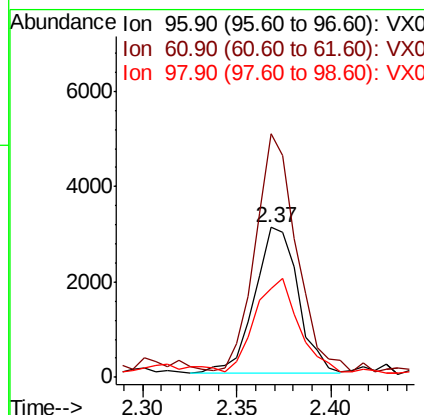
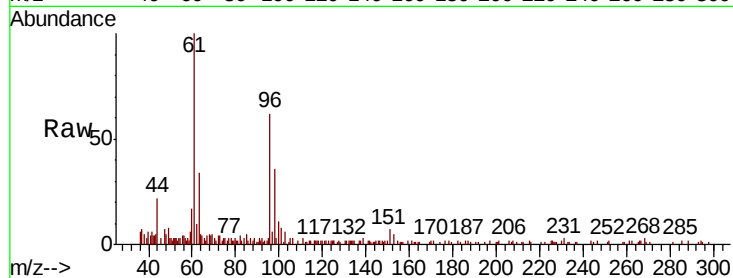




#12
 1,1-Dichloroethene
 Concen: 1.272 ug/l
 RT: 2.37 min Scan# 243
 Delta R.T. -0.00 min
 Lab File: VX015023.D
 Acq: 26 Feb 2020 16:07

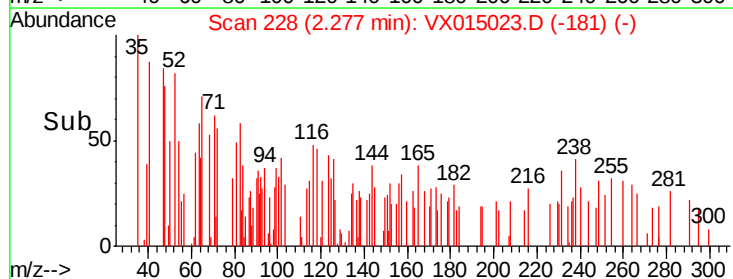
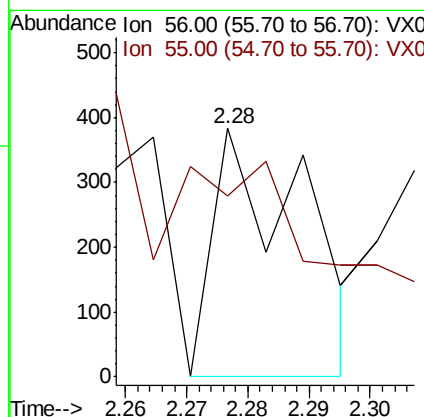
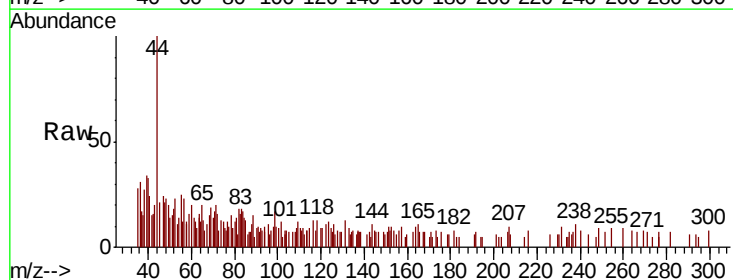
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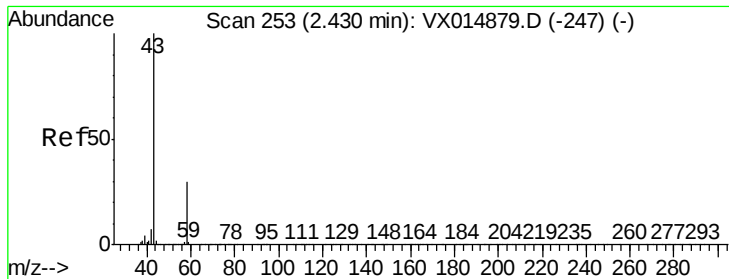
Tot Ion: 96 Resp: 4859
 Ion Ratio Lower Upper
 96 100
 61 160.4 129.5 194.3
 98 57.1 50.6 76.0



#13
 Acrolein
 Concen: 0.613 ug/l
 RT: 2.28 min Scan# 228
 Delta R.T. -0.01 min
 Lab File: VX015023.D
 Acq: 26 Feb 2020 16:07

Tgt Ion: 56 Resp: 388
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.0 82.4#

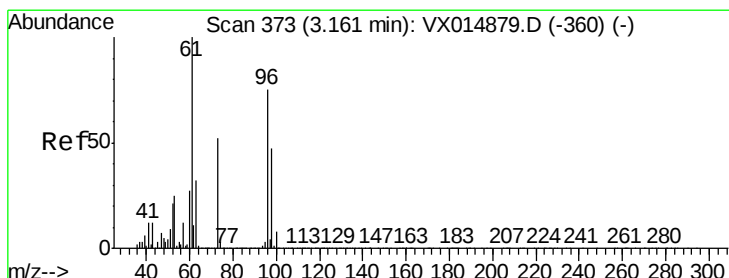
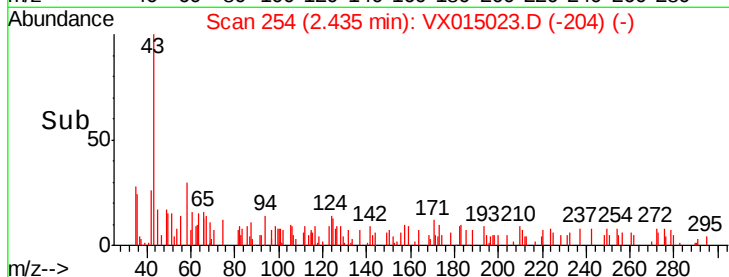
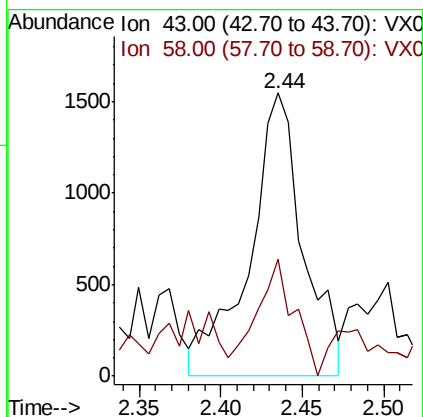
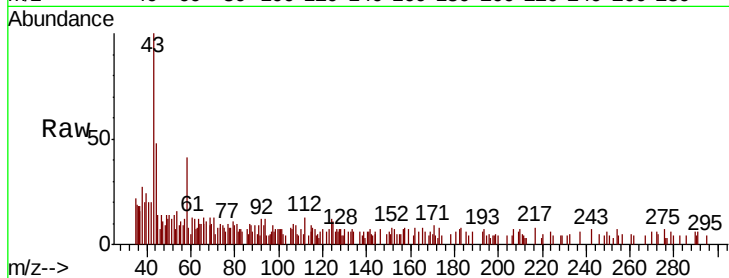




#16
Acetone
Concen: Below Cal
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

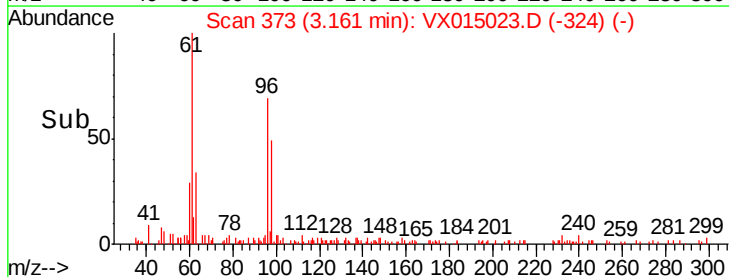
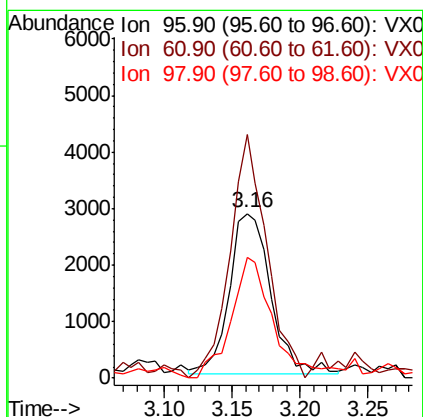
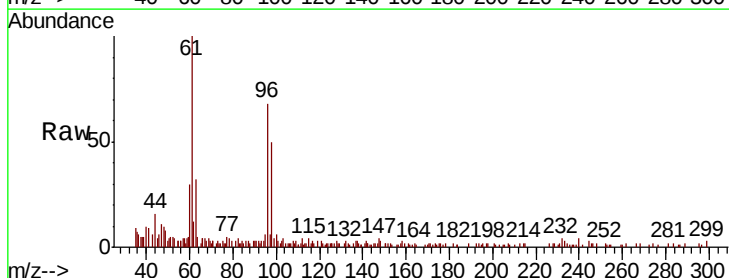
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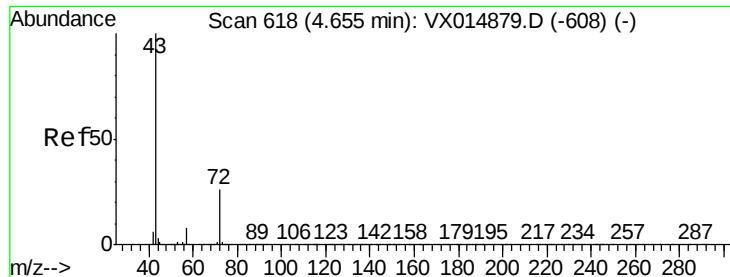
Tot Ion: 43 Resp: 3563
Ion Ratio Lower Upper
43 100
58 28.0 24.1 36.1



#21
trans-1,2-Dichloroethene
Concen: 1.444 ug/l
RT: 3.16 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

Tgt Ion: 96 Resp: 6084
Ion Ratio Lower Upper
96 100
61 153.7 106.9 160.3
98 70.6 50.7 76.1





#25

2-Butanone

Concen: 0.223 ug/l

RT: 4.65 min Scan# 617

Delta R.T. -0.01 min

Lab File: VX015023.D

Acq: 26 Feb 2020 16:07

Instrument :

MSVOA_X

ClientSampleId :

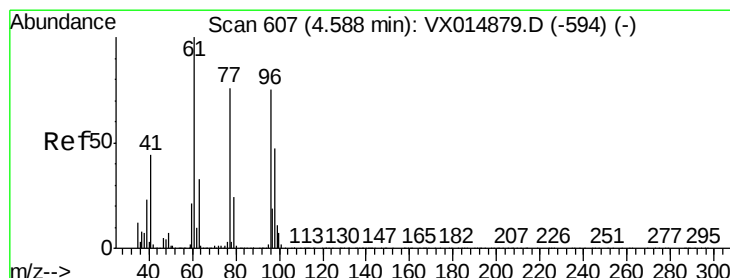
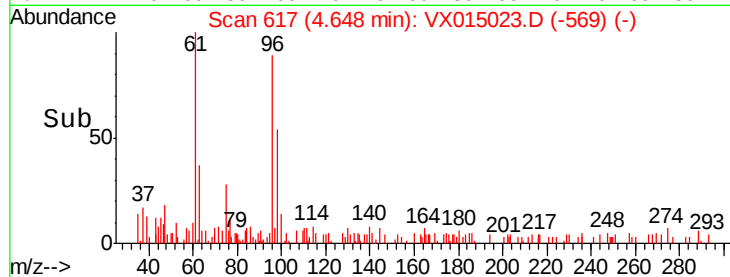
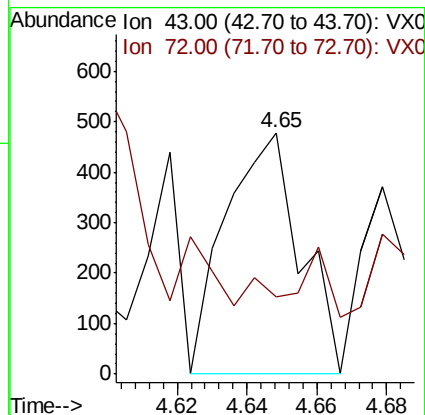
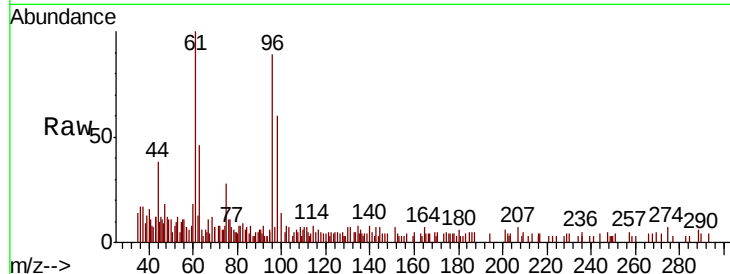
WEST-DITCHLN-20200225

Tot Ion: 43 Resp: 714

Ion Ratio Lower Upper

43 100

72 8.2 21.0 31.6#



#27

cis-1,2-Dichloroethene

Concen: 37.696 ug/l

RT: 4.59 min Scan# 607

Delta R.T. -0.00 min

Lab File: VX015023.D

Acq: 26 Feb 2020 16:07

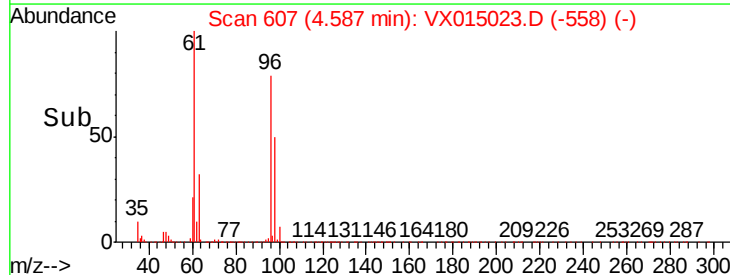
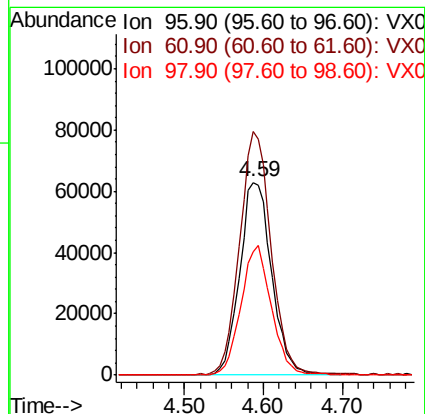
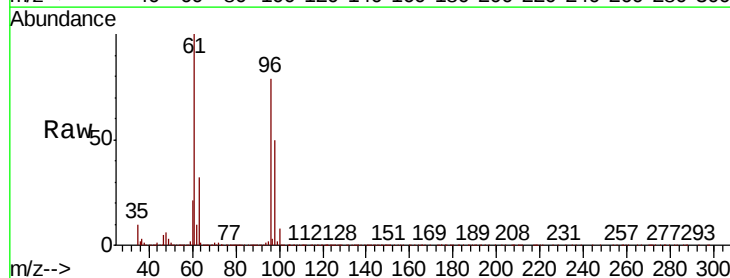
Tgt Ion: 96 Resp: 177581

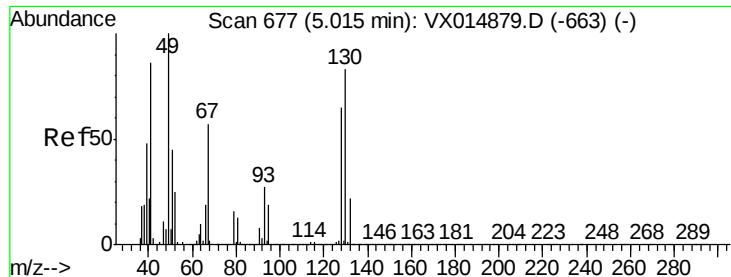
Ion Ratio Lower Upper

96 100

61 123.9 0.0 286.2

98 63.7 0.0 131.0

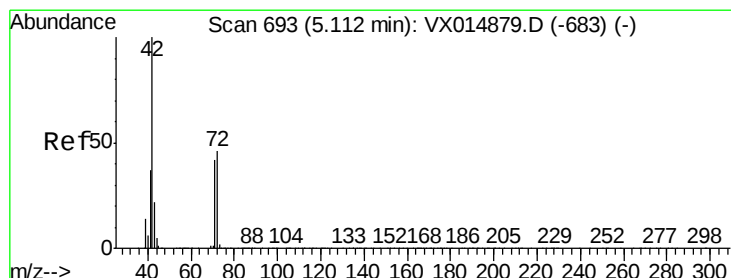
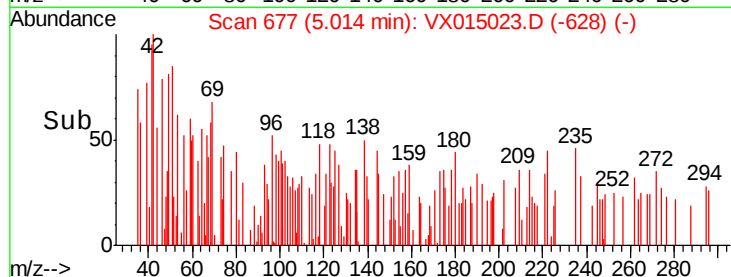
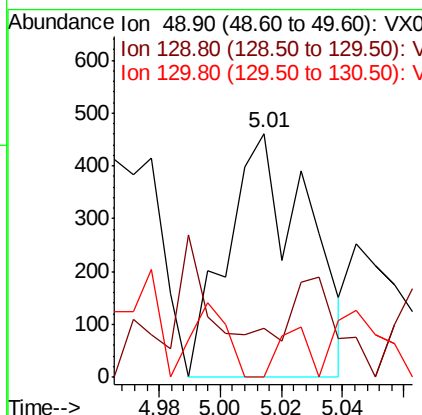
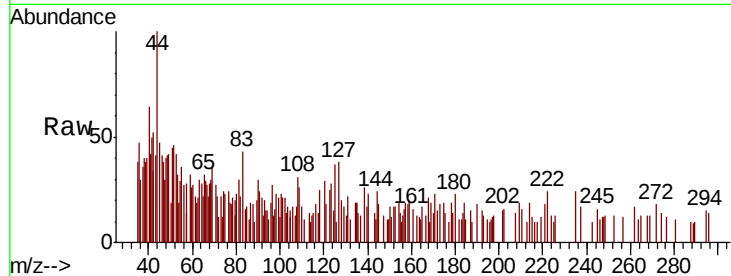




#28
Bromochloromethane
Concen: 0.295 ug/l
RT: 5.01 min Scan# 677
Delta R.T. -0.00 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

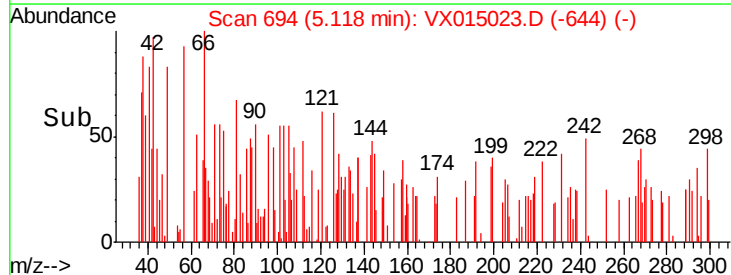
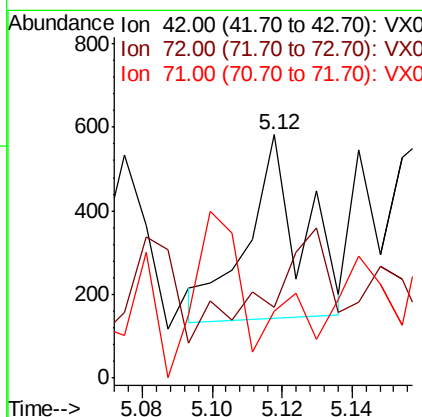
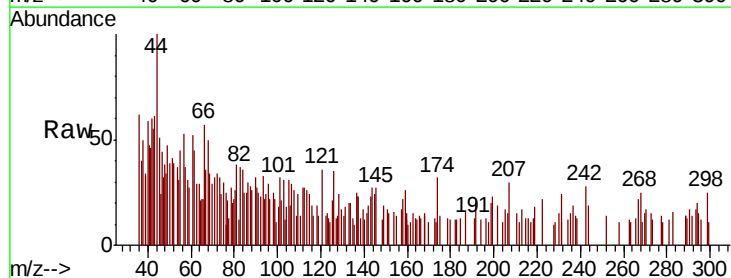
Instrument :
MSVOA_X
ClientSampleId :
WEST-DITCHLN-20200225

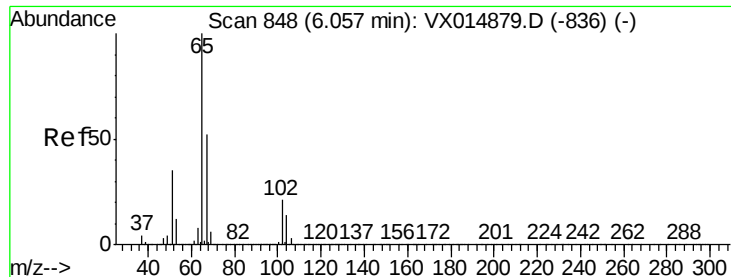
Tot Ion: 49 Resp: 836
Ion Ratio Lower Upper
49 100
129 29.9 0.0 5.2#
130 7.5 67.4 101.2#



#29
Tetrahydrofuran
Concen: 0.260 ug/l
RT: 5.12 min Scan# 694
Delta R.T. 0.01 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

Tgt Ion: 42 Resp: 473
Ion Ratio Lower Upper
42 100
72 57.7 36.9 55.3#
71 14.6 34.1 51.1#





#33

1,2-Dichloroethane-d4

Concen: 50.795 ug/l

RT: 6.06 min Scan# 848

Delta R.T. -0.00 min

Lab File: VX015023.D

Acq: 26 Feb 2020 16:07

Instrument :

MSVOA_X

ClientSampleId :

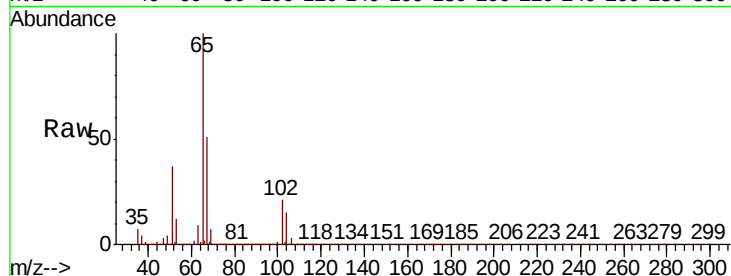
WEST-DITCHLN-20200225

Tot Ion: 65 Resp: 238866

Ion Ratio Lower Upper

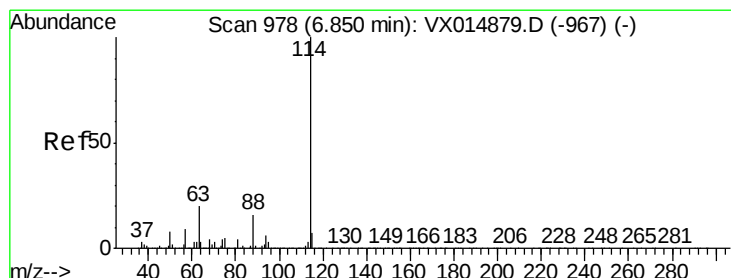
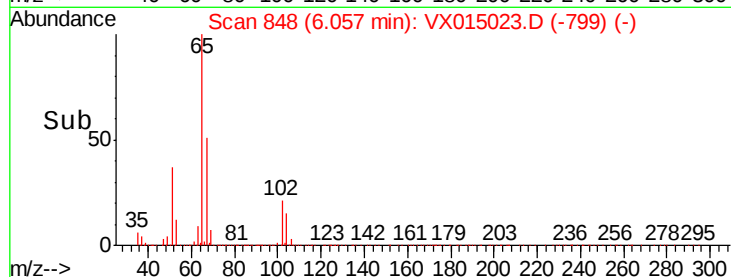
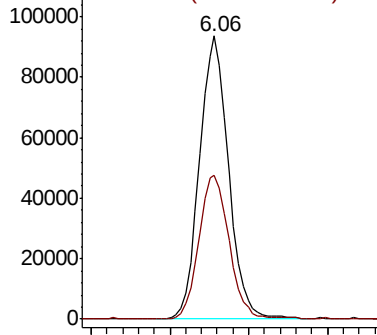
65 100

67 52.1 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX015023.D

Acq: 26 Feb 2020 16:07

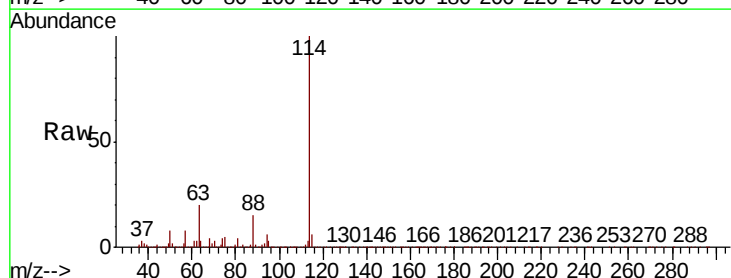
Tgt Ion: 114 Resp: 661407

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.2

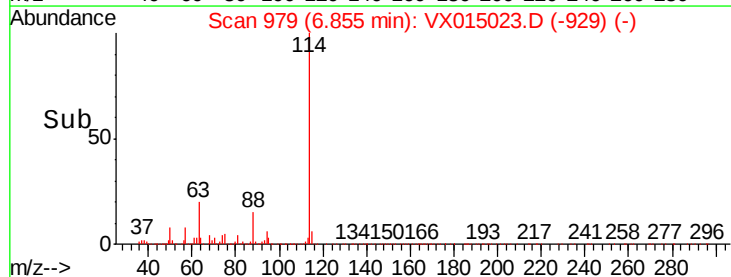
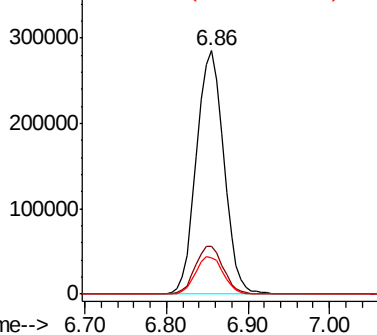
88 14.9 0.0 32.0

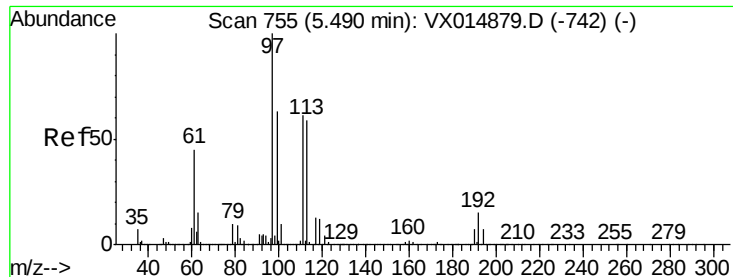


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.290 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX015023.D

Acq: 26 Feb 2020 16:07

Instrument :

MSVOA_X

ClientSampleId :

WEST-DITCHLN-20200225

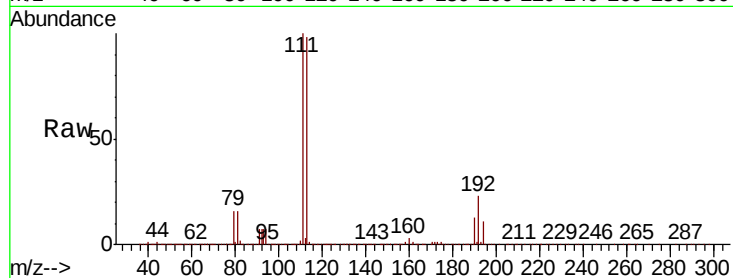
Tot Ion:113 Resp: 204489

Ion Ratio Lower Upper

113 100

111 102.6 82.4 123.6

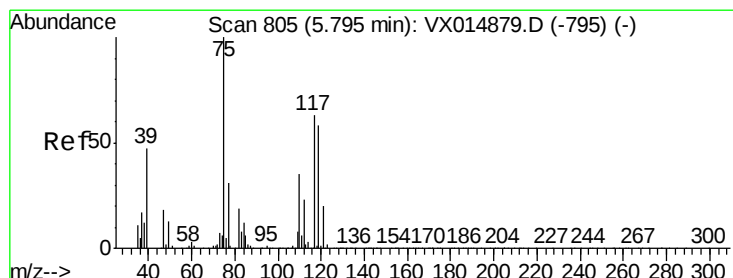
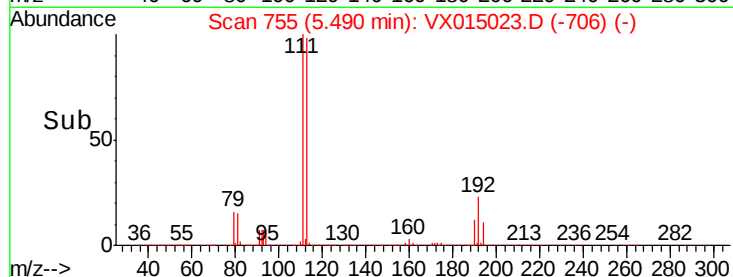
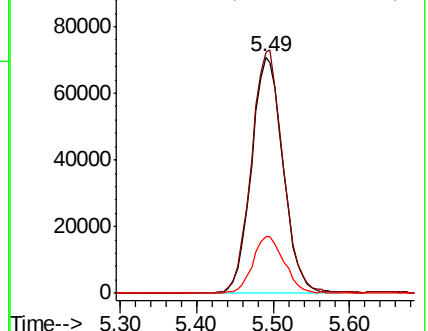
192 24.0 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.760 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX015023.D

Acq: 26 Feb 2020 16:07

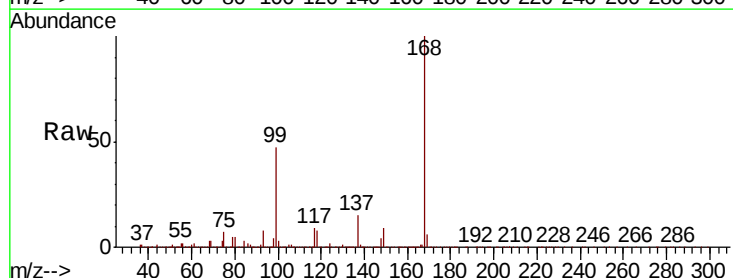
Tgt Ion: 75 Resp: 28164

Ion Ratio Lower Upper

75 100

110 11.6 18.3 54.8#

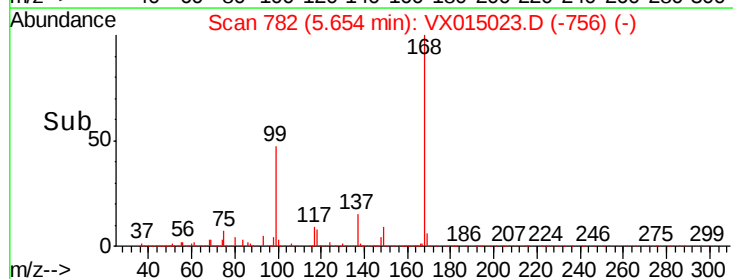
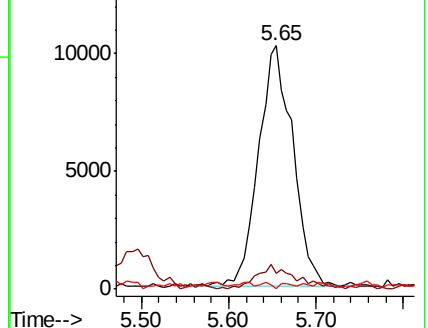
77 1.0 24.6 36.8#

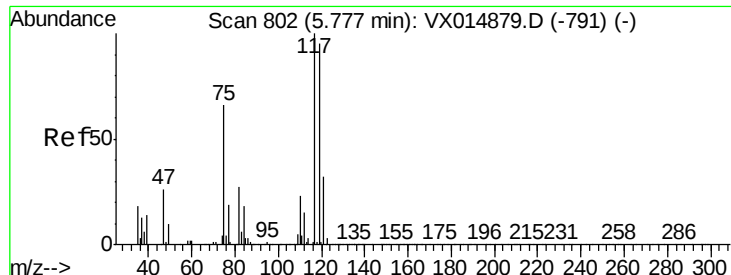


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

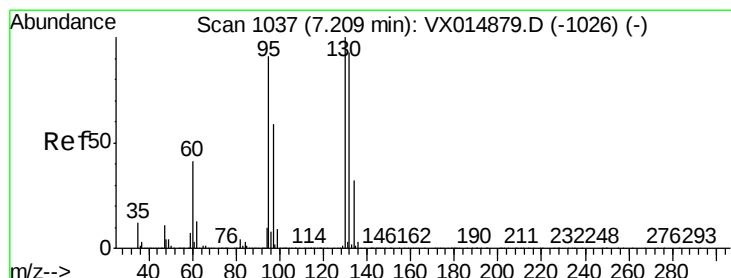
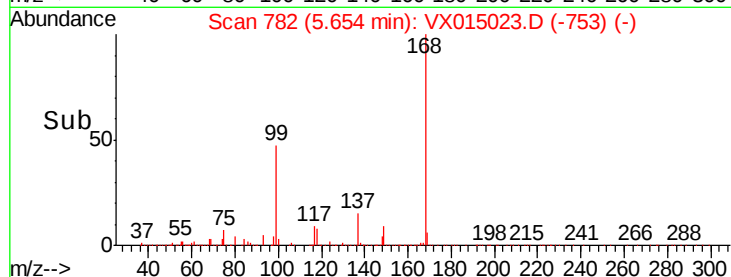
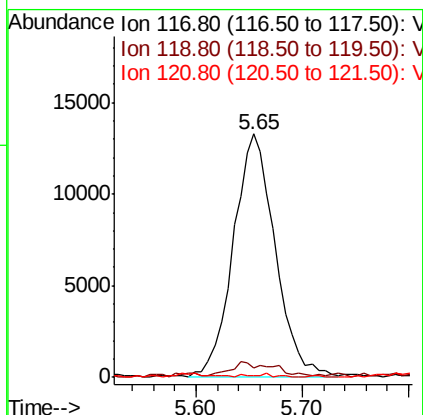
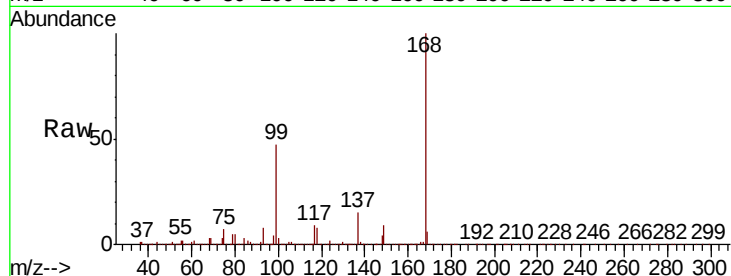




#38
Carbon Tetrachloride
Concen: 6.361 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

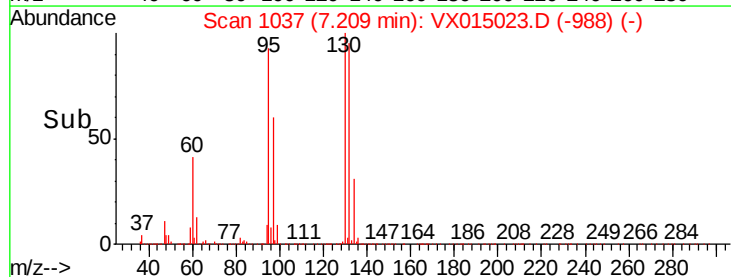
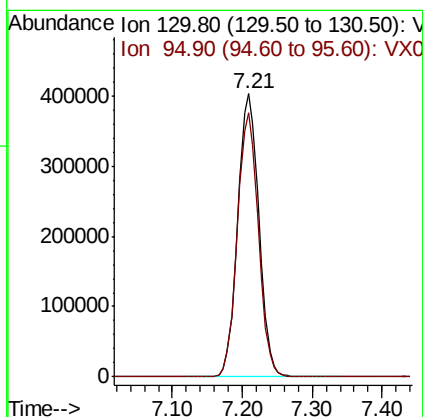
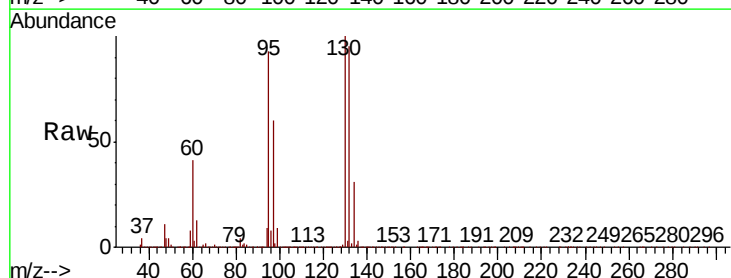
Instrument :
MSVOA_X
ClientSampleId :
WEST-DITCHLN-20200225

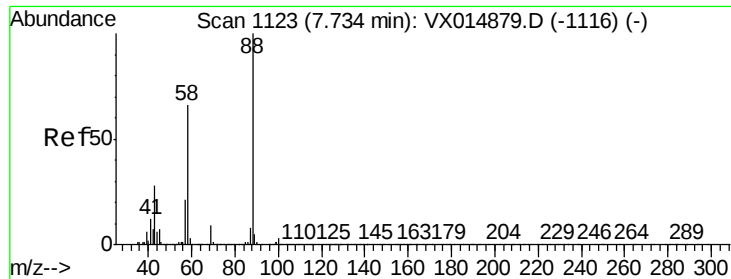
Tot Ion:117 Resp: 36674
Ion Ratio Lower Upper
117 100
119 2.2 76.0 114.0#
121 0.6 25.4 38.2#



#44
Trichloroethene
Concen: 165.002 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

Tgt Ion:130 Resp: 846744
Ion Ratio Lower Upper
130 100
95 93.4 0.0 182.6

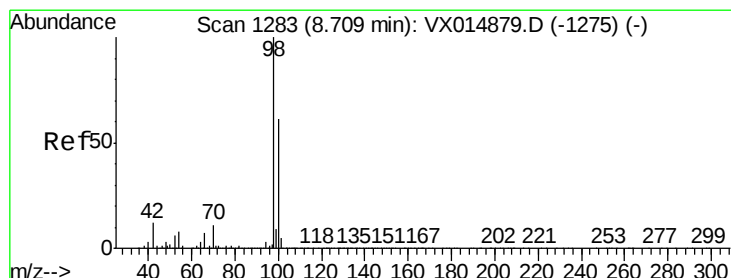
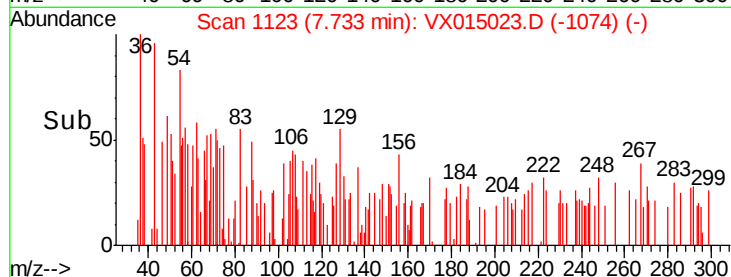
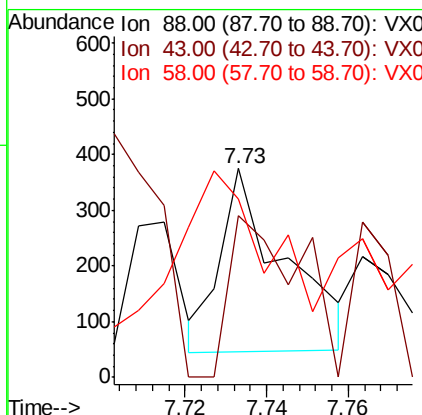
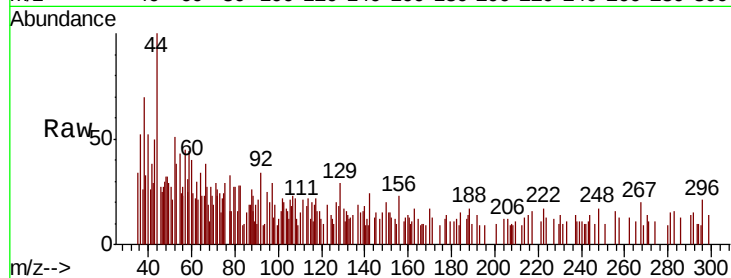




#49
1,4-Dioxane
Concen: 3.843 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. -0.00 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

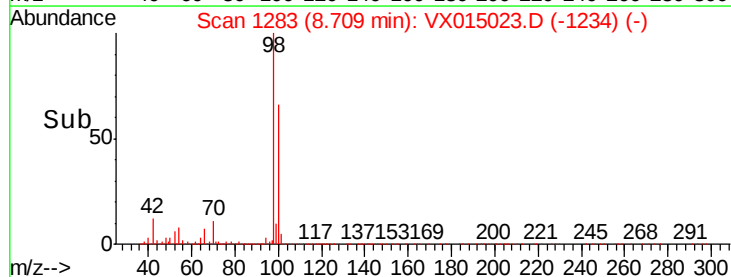
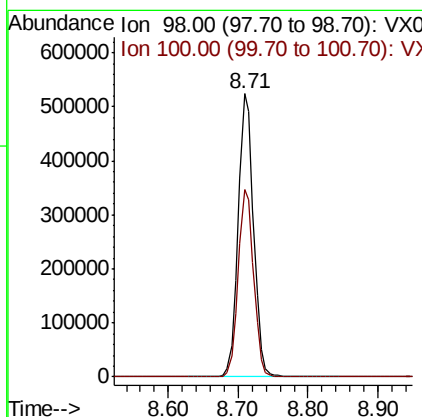
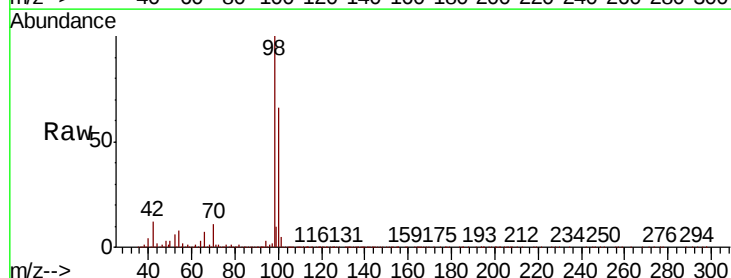
Instrument :
MSVOA_X
ClientSampleId :
WEST-DITCHLN-20200225

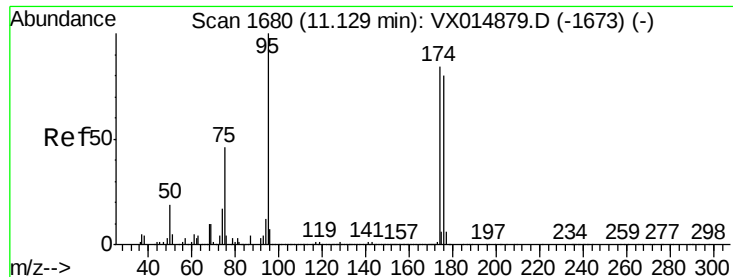
Tot Ion: 88 Resp: 360
Ion Ratio Lower Upper
88 100
43 96.9 27.0 40.4#
58 87.8 53.2 79.8#



#50
Toluene-d8
Concen: 51.373 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

Tgt Ion: 98 Resp: 797358
Ion Ratio Lower Upper
98 100
100 66.4 52.4 78.6

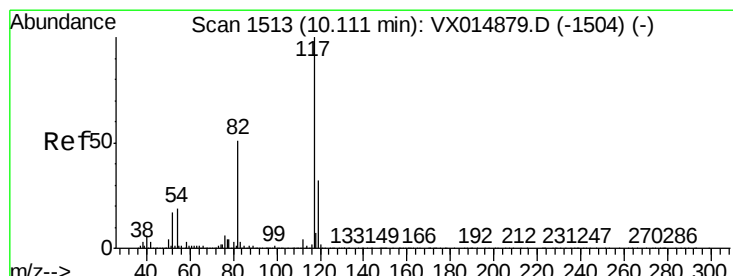
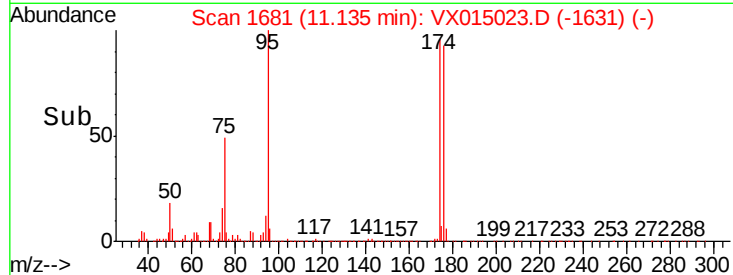
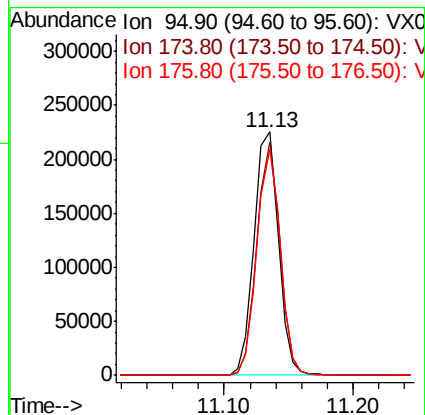
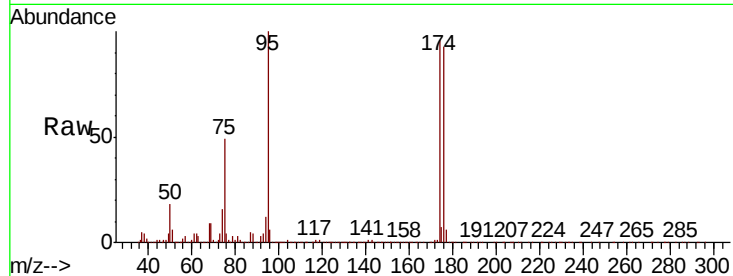




#62
4-Bromofluorobenzene
Concen: 52.558 ug/l
RT: 11.13 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

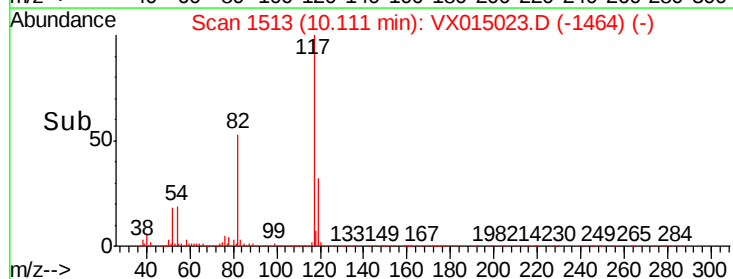
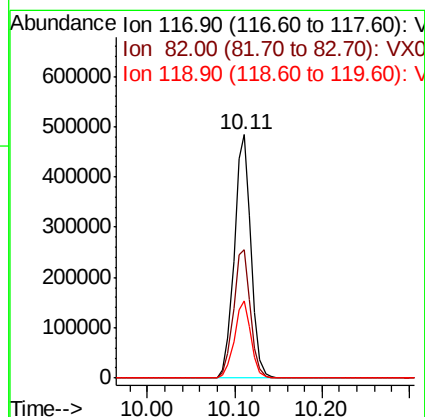
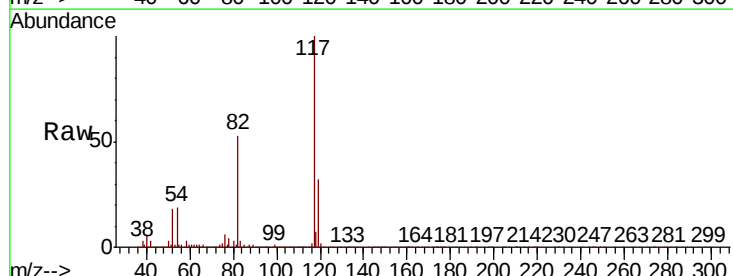
Instrument :
MSVOA_X
ClientSampleId :
WEST-DITCHLN-20200225

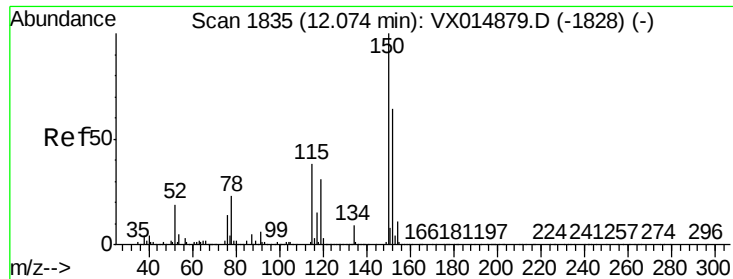
Tot Ion	Ratio	Lower	Upper
95	100		
174	91.3	0.0	183.0
176	89.1	0.0	178.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.7	40.5	60.7
119	31.8	25.8	38.6



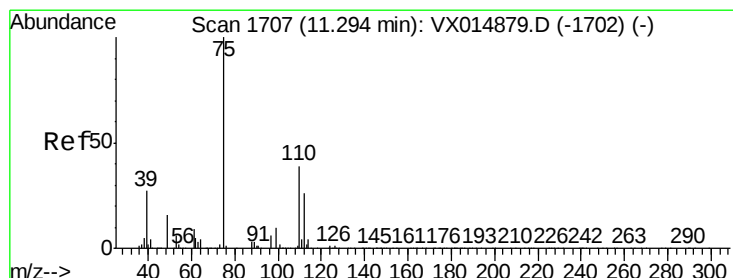
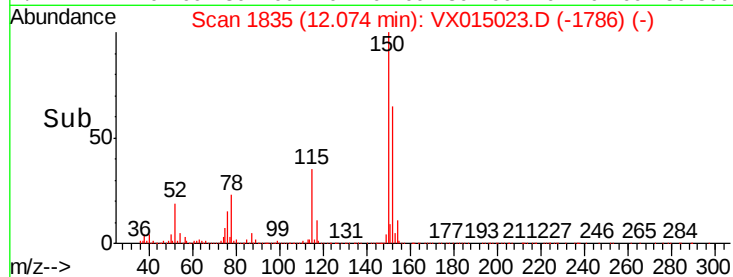
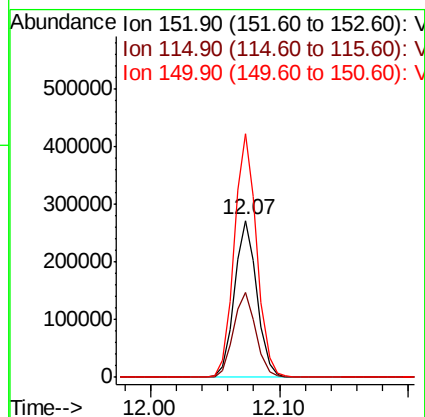
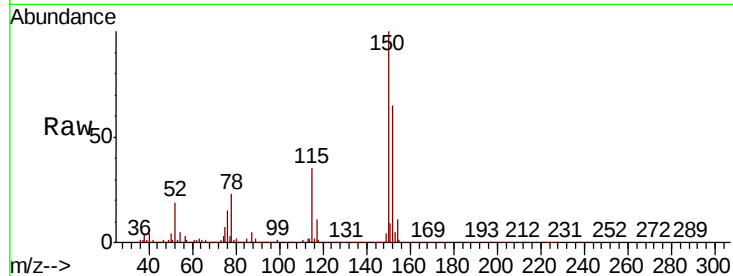


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

Instrument :
MSVOA_X
ClientSampleId :
WEST-DITCHLN-20200225

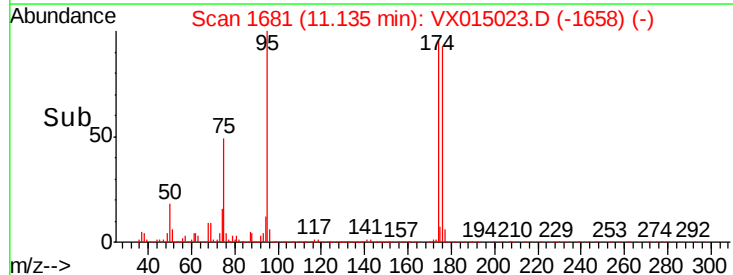
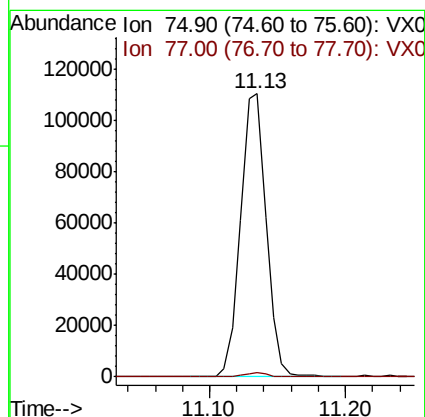
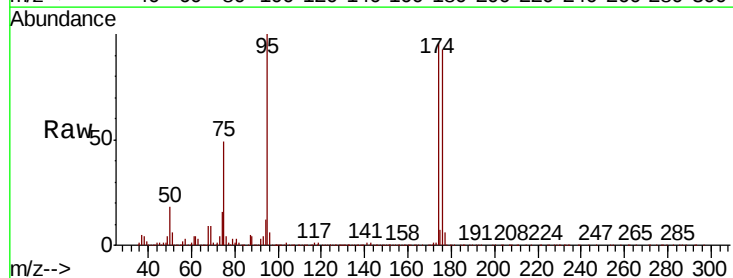
Tot Ion:152 Resp: 329674
Ion Ratio Lower Upper
152 100
115 54.3 38.6 116.0
150 155.7 0.0 349.0

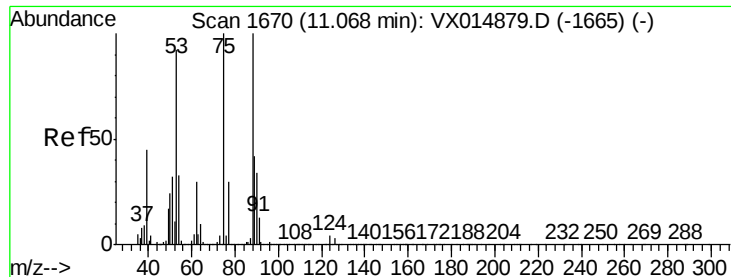


#76

1,2,3-Trichloropropane
Concen: 24.305 ug/l
RT: 11.13 min Scan# 1681
Delta R.T. -0.16 min
Lab File: VX015023.D
Acq: 26 Feb 2020 16:07

Tgt Ion: 75 Resp: 144899
Ion Ratio Lower Upper
75 100
77 1.2 18.4 55.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 62.215 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX015023.D

Acq: 26 Feb 2020 16:07

Instrument :

MSVOA_X

ClientSampleId :

WEST-DITCHLN-20200225

Tot Ion: 75 Resp: 144899

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.1 35.8 53.6#

