

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122619\
 Data File : VX014294.D
 Acq On : 27 Dec 2019 02:02
 Operator : JC/SP
 Sample : K6413-15
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 K005-AA-WC-2

Quant Time: Dec 27 06:10:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	534700	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	841515	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	766584	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	333557	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	300499	49.59	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.18%	
35) Dibromofluoromethane	5.49	113	247046	48.29	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.58%	
50) Toluene-d8	8.71	98	1005549	50.49	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.98%	
62) 4-Bromofluorobenzene	11.13	95	334173	45.90	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.80%	

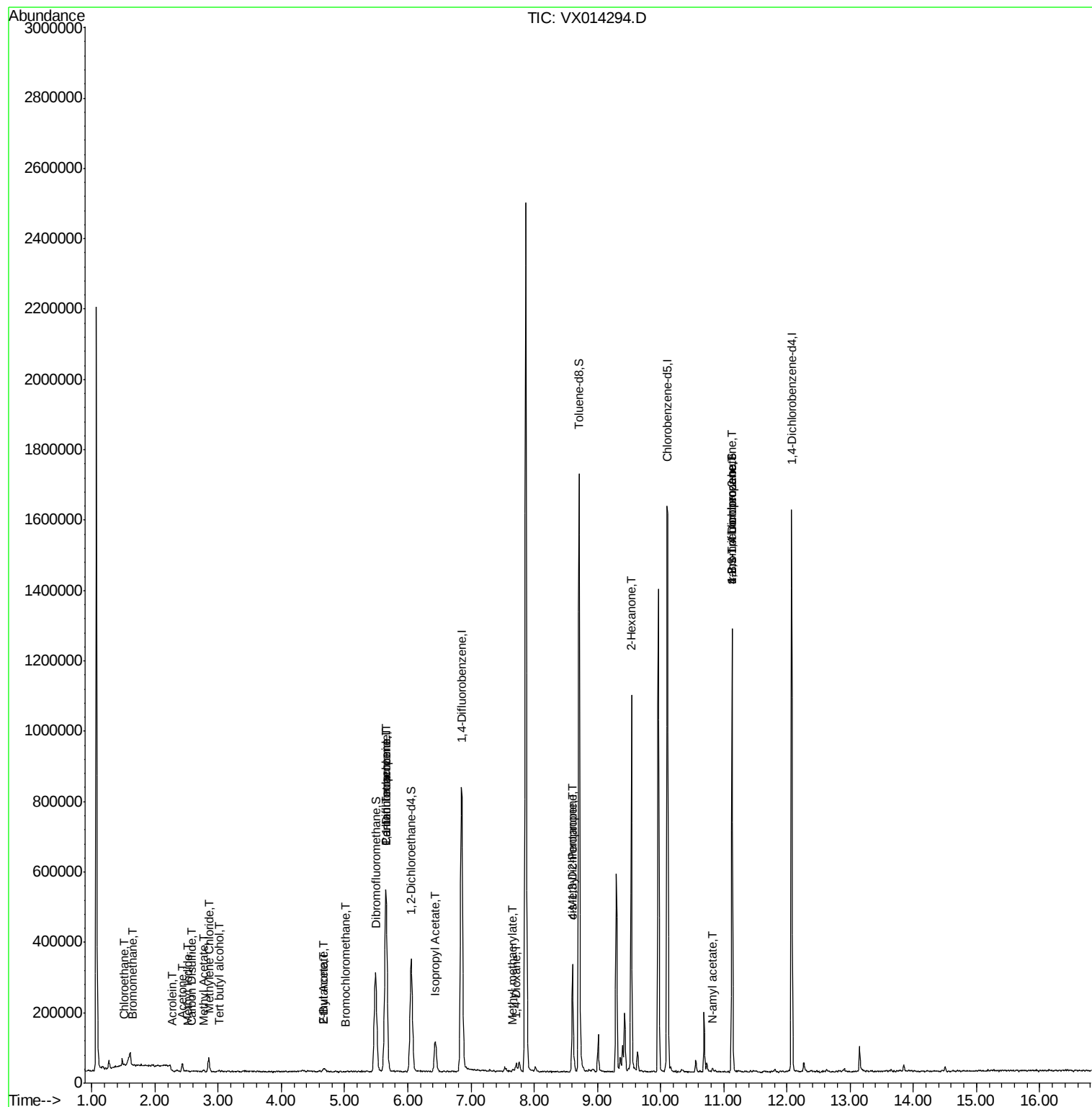
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1360	0.283	ug/l	94
6) Chloroethane	1.52	64	1036	0.248	ug/l	97
10) Methyl Iodide	2.52	142	1324	2.809	ug/l #	81
11) Tert butyl alcohol	3.02	59	3917	2.991	ug/l #	90
13) Acrolein	2.28	56	174	0.232	ug/l #	8
16) Acetone	2.43	43	24756	6.292	ug/l	99
17) Carbon Disulfide	2.57	76	1909	0.882	ug/l #	90
18) Methyl Acetate	2.76	43	5602	0.719	ug/l	99
20) Methylene Chloride	2.85	84	18335	2.959	ug/l	89
25) 2-Butanone	4.67	43	12861	2.651	ug/l #	86
28) Bromochloromethane	5.02	49	647	0.617	ug/l #	43
36) 1,1-Dichloropropene	5.65	75	37045	4.798	ug/l #	51
37) Ethyl Acetate	4.67	43	13775	1.616	ug/l #	73
38) Carbon Tetrachloride	5.65	117	47045	6.688	ug/l #	15
43) Isopropyl Acetate	6.43	43	123032	8.719	ug/l	99
48) Methyl methacrylate	7.67	41	7433	1.076	ug/l #	18
49) 1,4-Dioxane	7.72	88	285	2.027	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	111656	12.599	ug/l #	50
54) cis-1,3-Dichloropropene	8.61	75	50711	5.475	ug/l #	59
59) 2-Hexanone	9.54	43	125218	17.552	ug/l #	50
74) N-amyl acetate	10.82	43	6757	0.614	ug/l #	56
76) 1,2,3-Trichloropropane	11.13	75	162058	22.379	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	162058	63.166	ug/l #	11

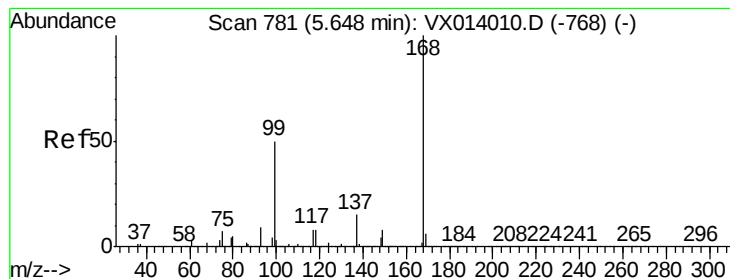
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014294.D

Acq: 27 Dec 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

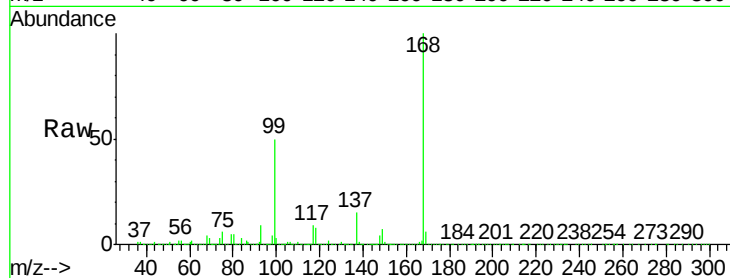
K005-AA-WC-2

Tgt Ion: 168 Resp: 534700

Ion Ratio Lower Upper

168 100

99 50.0 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

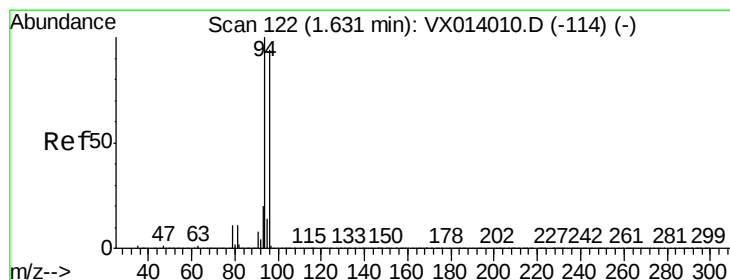
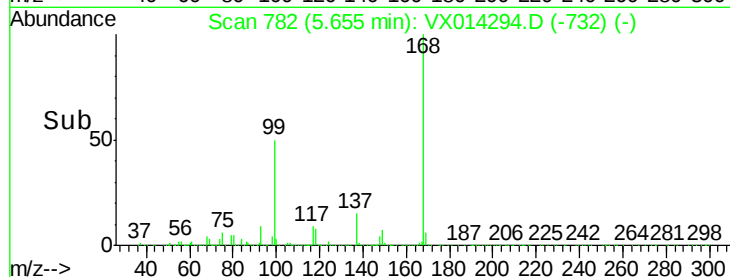
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.283 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014294.D

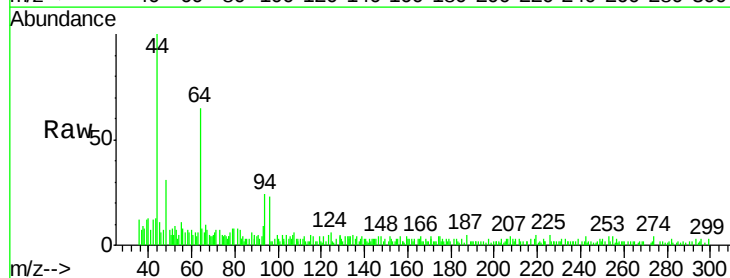
Acq: 27 Dec 2019 02:02

Tgt Ion: 94 Resp: 1360

Ion Ratio Lower Upper

94 100

96 88.6 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1200

1000

800

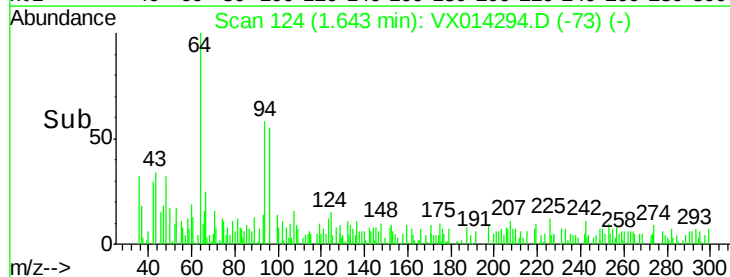
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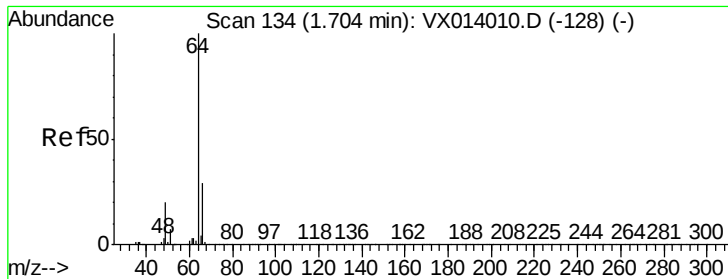
400

200

0

Time-->





#6

Chloroethane

Concen: 0.248 ug/l

RT: 1.52 min Scan# 104

Delta R.T. -0.18 min

Lab File: VX014294.D

Acq: 27 Dec 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

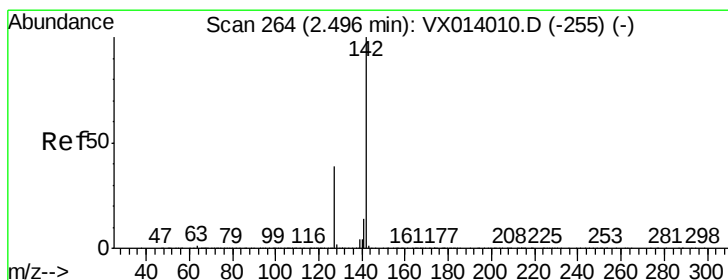
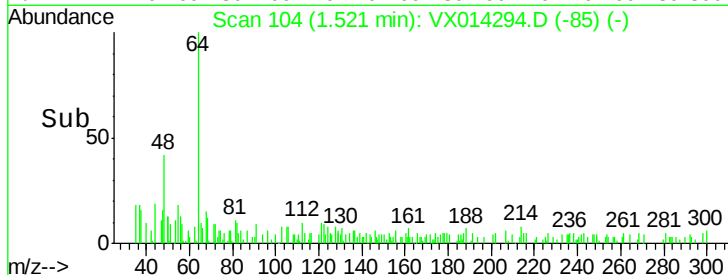
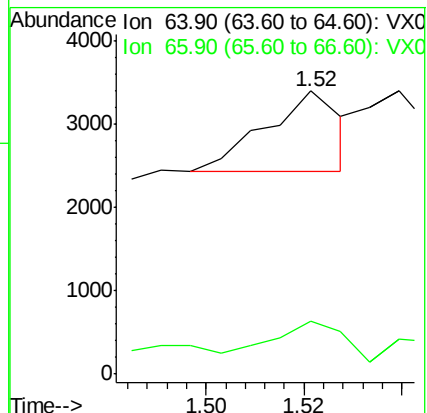
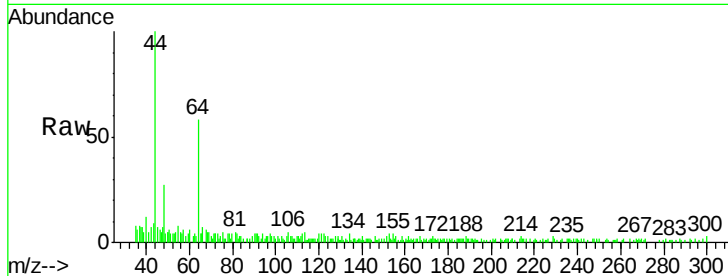
K005-AA-WC-2

Tgt Ion: 64 Resp: 1036

Ion Ratio Lower Upper

64 100

66 31.0 23.4 35.2



#10

Methyl Iodide

Concen: 2.809 ug/l

RT: 2.52 min Scan# 268

Delta R.T. 0.03 min

Lab File: VX014294.D

Acq: 27 Dec 2019 02:02

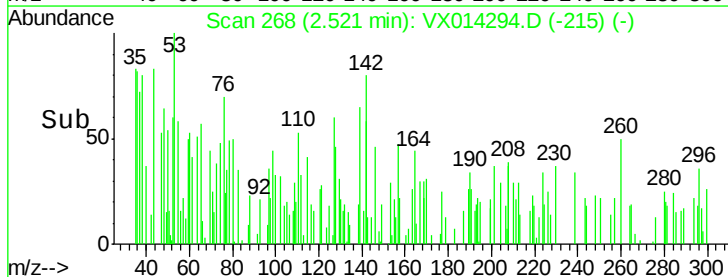
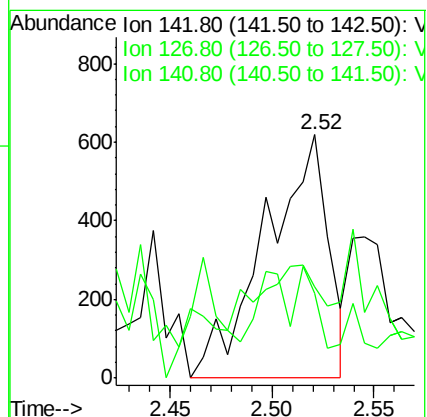
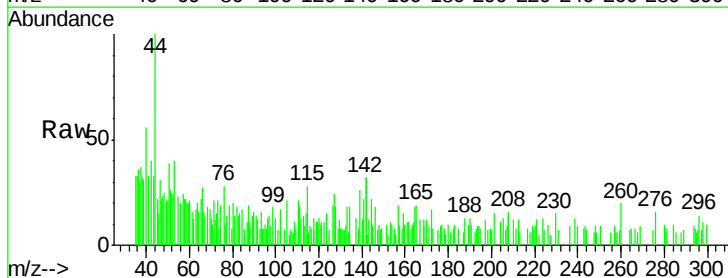
Tgt Ion: 142 Resp: 1324

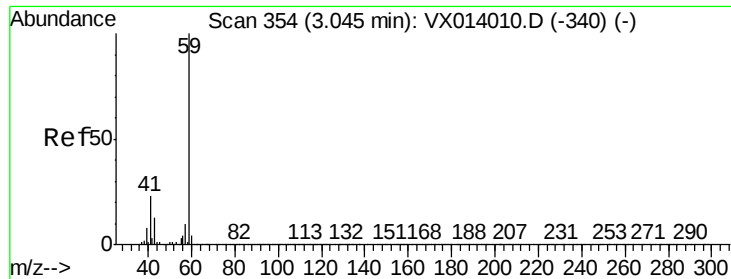
Ion Ratio Lower Upper

142 100

127 31.8 31.6 47.4

141 0.0 11.6 17.4#



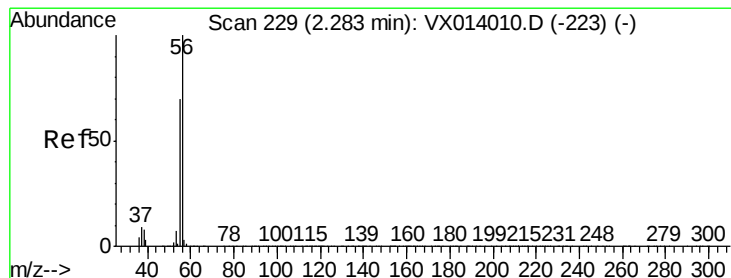
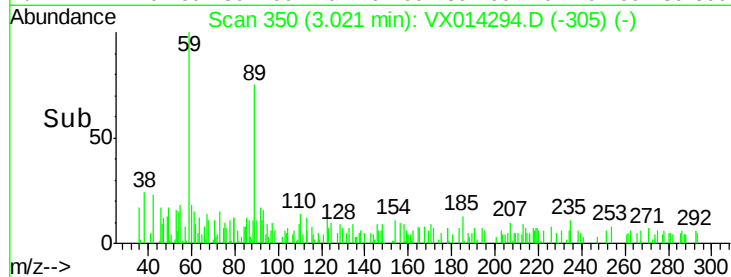
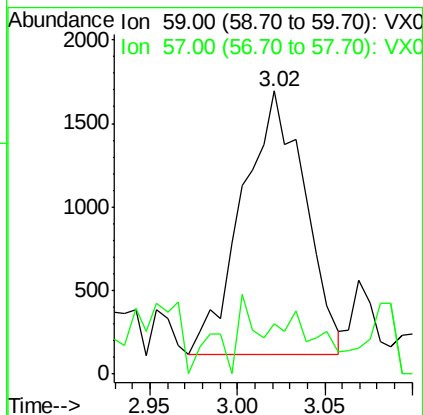
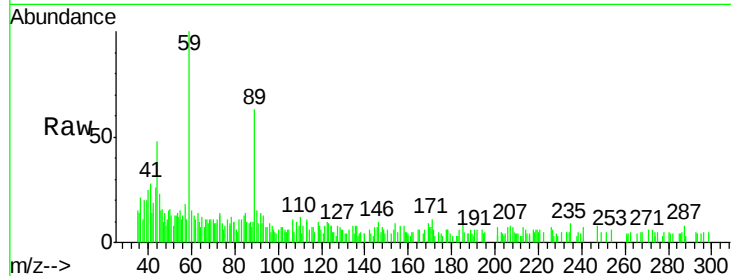


#11

Tert butyl alcohol
 Concen: 2.991 ug/l
 RT: 3.02 min Scan# 350
 Delta R.T. -0.02 min
 Lab File: VX014294.D
 Acq: 27 Dec 2019 02:02

Instrument :
 MSVOA_X
 ClientSampleId :
 K005-AA-WC-2

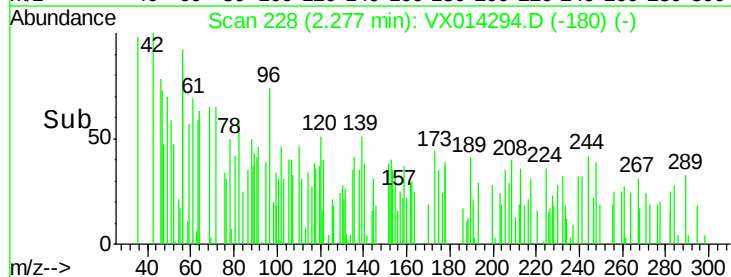
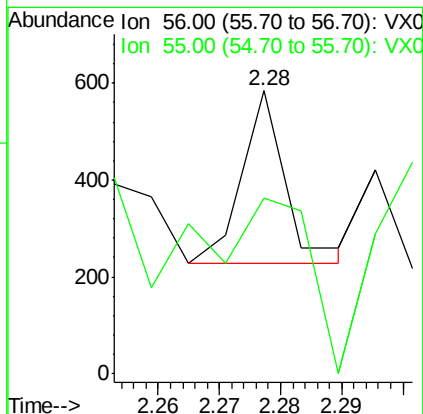
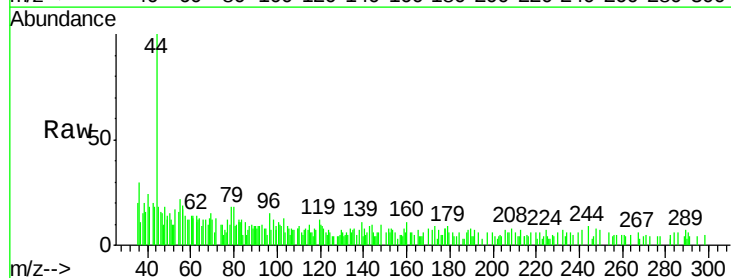
Tgt Ion: 59 Resp: 3917
 Ion Ratio Lower Upper
 59 100
 57 6.8 8.4 12.6#

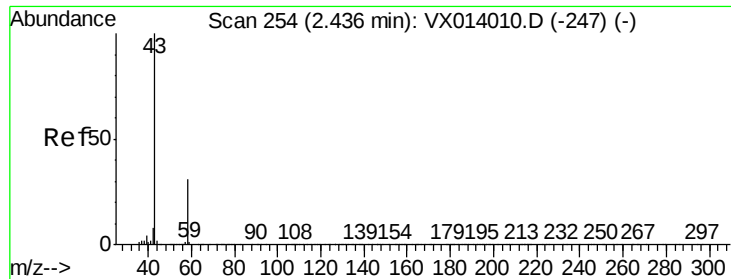


#13

Acrolein
 Concen: 0.232 ug/l
 RT: 2.28 min Scan# 228
 Delta R.T. -0.01 min
 Lab File: VX014294.D
 Acq: 27 Dec 2019 02:02

Tgt Ion: 56 Resp: 174
 Ion Ratio Lower Upper
 56 100
 55 147.1 56.9 85.3#

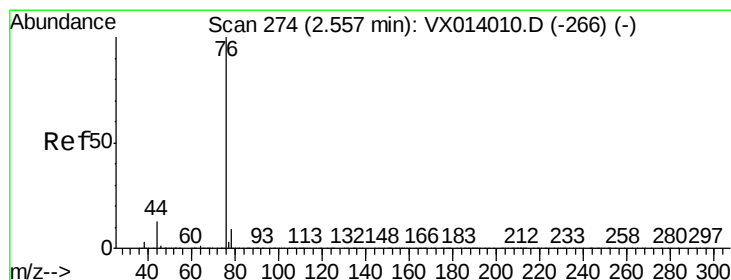
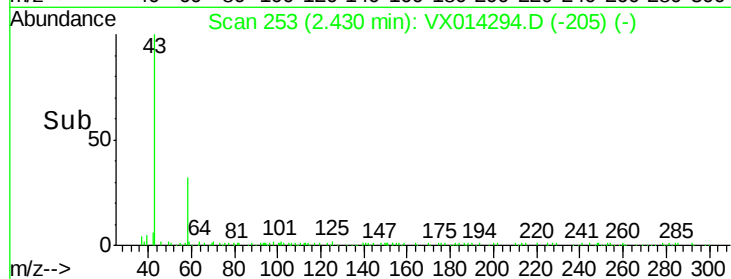
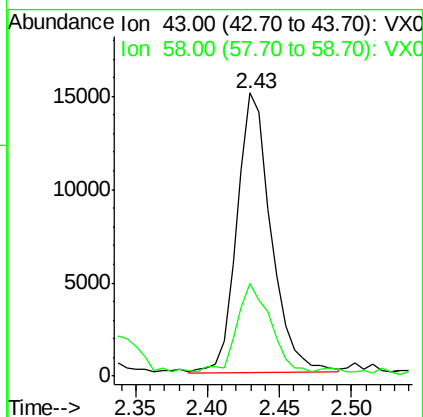
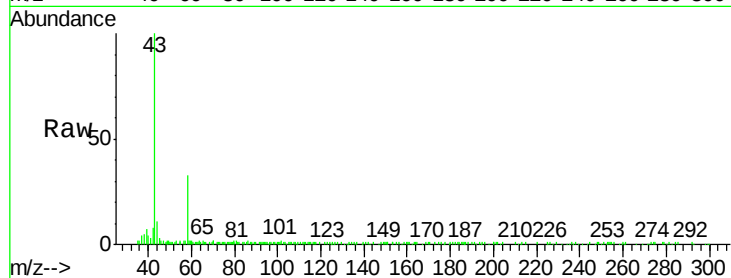




#16
Acetone
Concen: 6.292 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014294.D
Acq: 27 Dec 2019 02:02

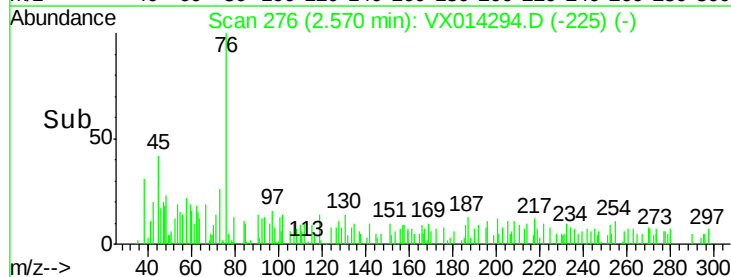
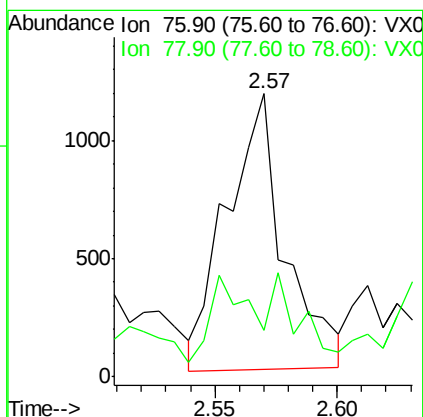
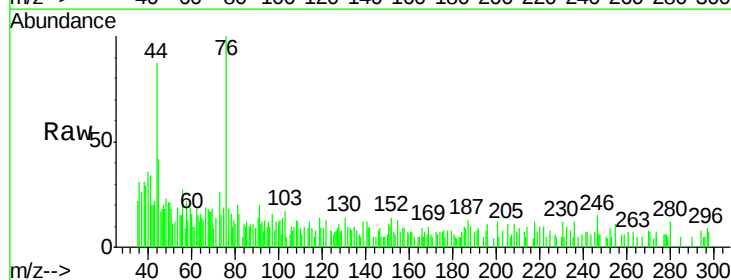
Instrument :
MSVOA_X
ClientSampleId :
K005-AA-WC-2

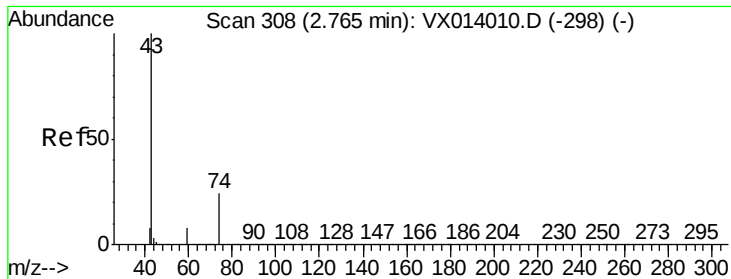
Tgt Ion: 43 Resp: 24756
Ion Ratio Lower Upper
43 100
58 31.4 24.9 37.3



#17
Carbon Disulfide
Concen: 0.882 ug/l
RT: 2.57 min Scan# 276
Delta R.T. 0.01 min
Lab File: VX014294.D
Acq: 27 Dec 2019 02:02

Tgt Ion: 76 Resp: 1909
Ion Ratio Lower Upper
76 100
78 12.6 7.2 10.8#

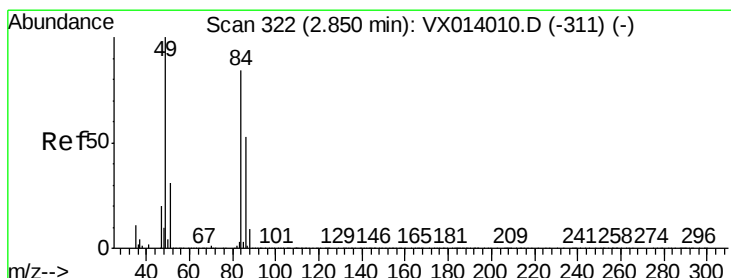
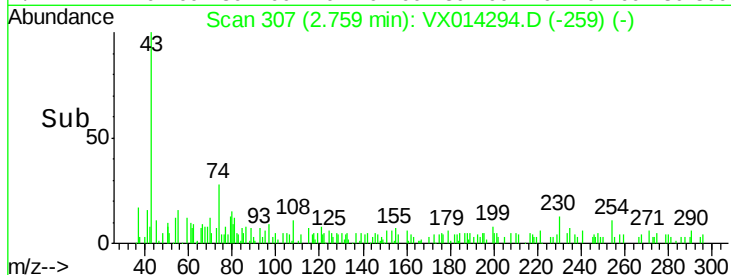
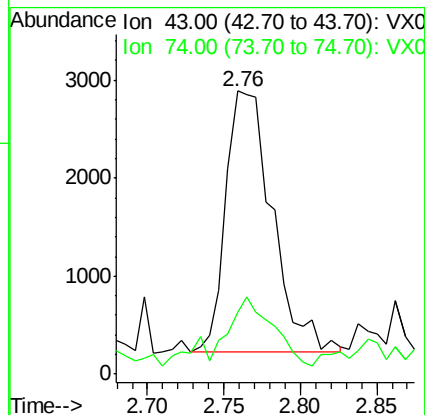
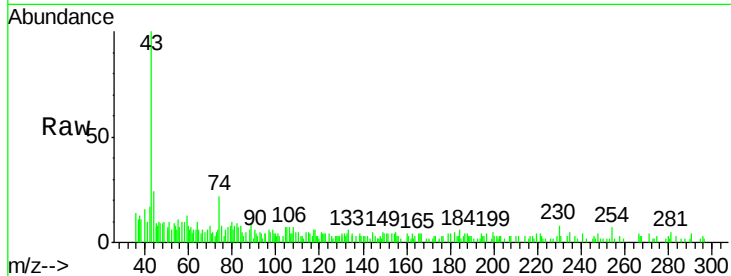




#18
Methyl Acetate
Concen: 0.719 ug/l
RT: 2.76 min Scan# 307
Delta R.T. -0.01 min
Lab File: VX014294.D
Acq: 27 Dec 2019 02:02

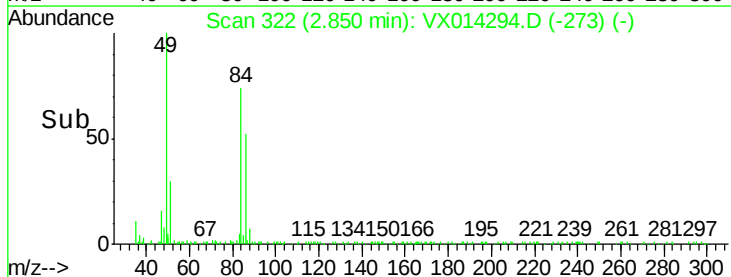
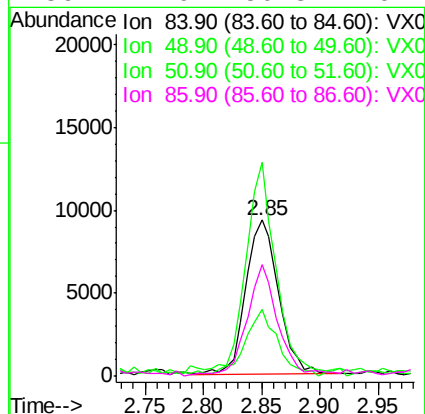
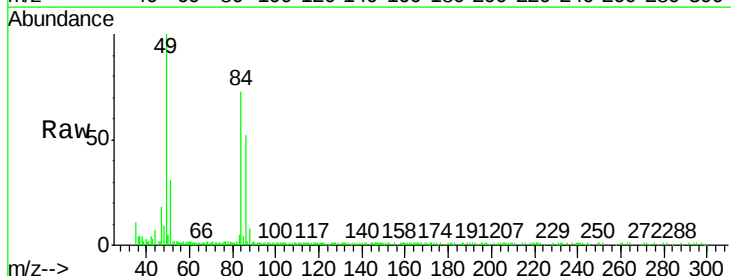
Instrument :
MSVOA_X
ClientSampleId :
K005-AA-WC-2

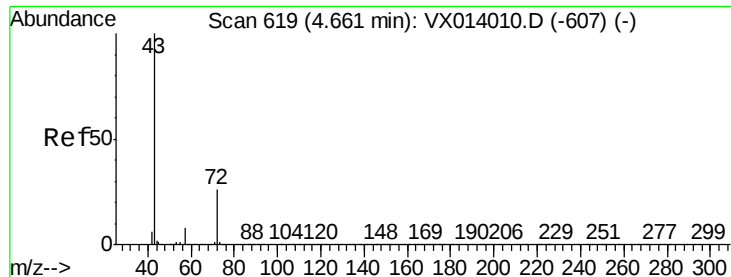
Tgt Ion: 43 Resp: 5602
Ion Ratio Lower Upper
43 100
74 24.7 19.5 29.3



#20
Methylene Chloride
Concen: 2.959 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014294.D
Acq: 27 Dec 2019 02:02

Tgt Ion: 84 Resp: 18335
Ion Ratio Lower Upper
84 100
49 133.9 95.8 143.6
51 41.2 29.8 44.8
86 71.9 50.8 76.2





#25

2-Butanone

Concen: 2.651 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX014294.D

Acq: 27 Dec 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

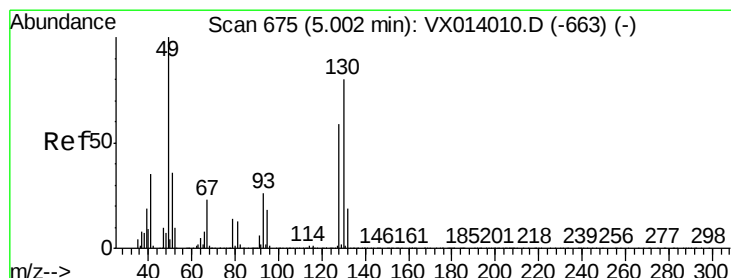
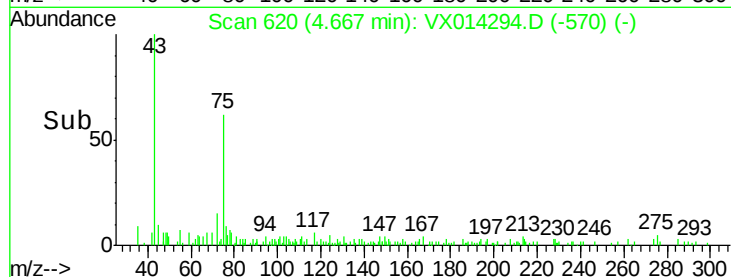
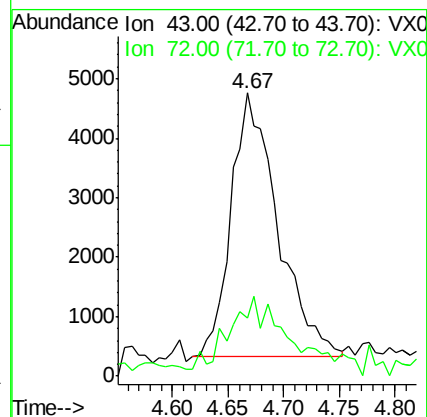
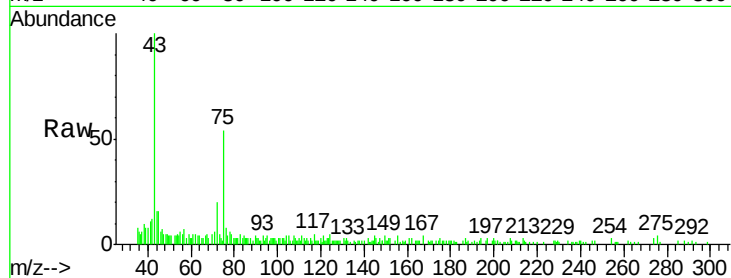
K005-AA-WC-2

Tgt Ion: 43 Resp: 12861

Ion Ratio Lower Upper

43 100

72 19.2 21.0 31.4#



#28

Bromochloromethane

Concen: 0.617 ug/l

RT: 5.02 min Scan# 678

Delta R.T. 0.02 min

Lab File: VX014294.D

Acq: 27 Dec 2019 02:02

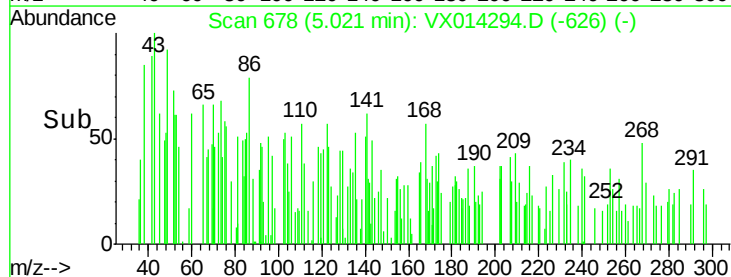
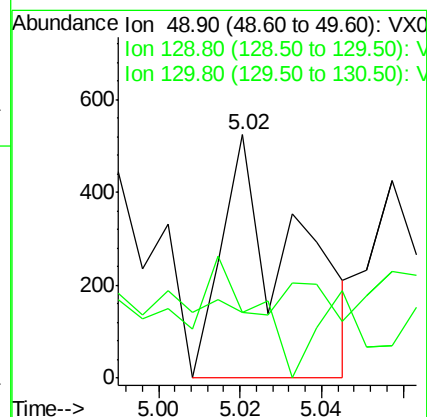
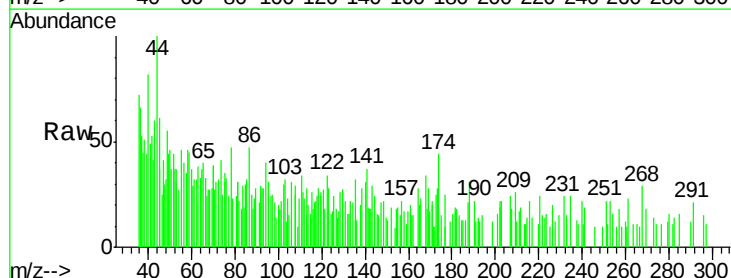
Tgt Ion: 49 Resp: 647

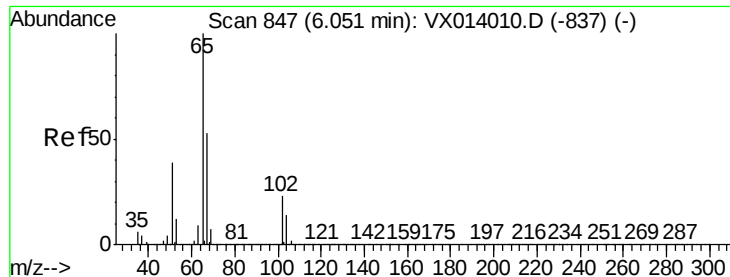
Ion Ratio Lower Upper

49 100

129 43.6 0.0 5.0#

130 32.1 64.6 97.0#

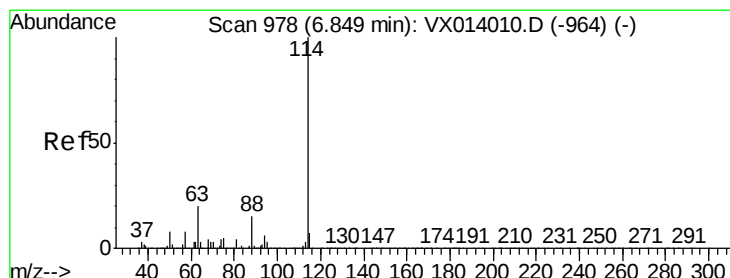
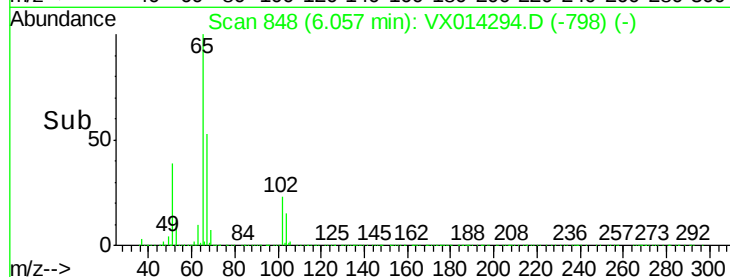
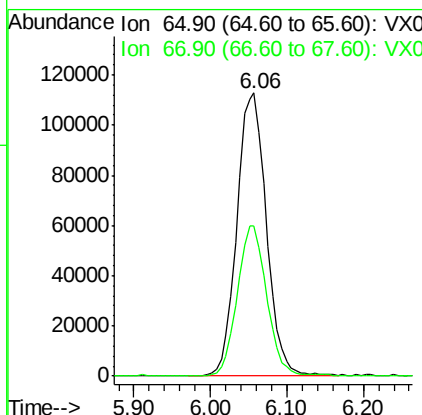
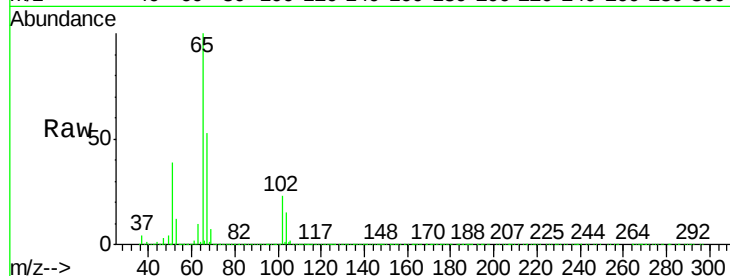




#33
 1,2-Dichloroethane-d4
 Concen: 49.587 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX014294.D
 Acq: 27 Dec 2019 02:02

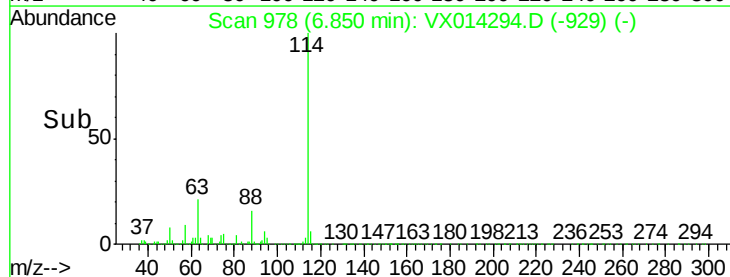
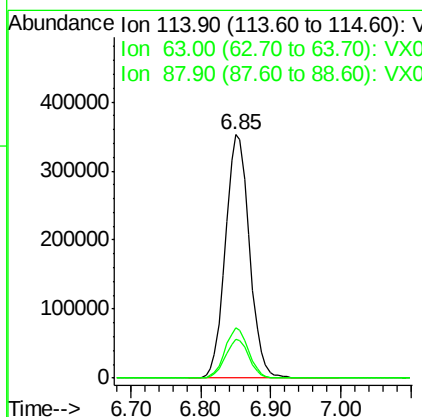
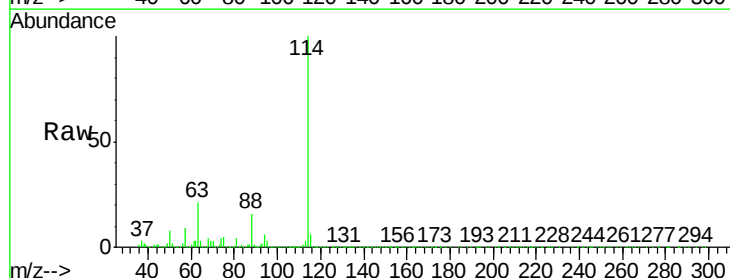
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 K005-AA-WC-2

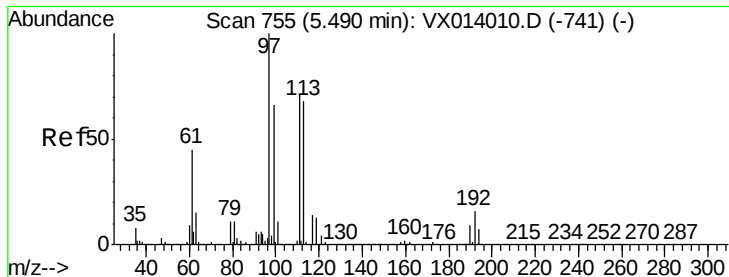
Tgt Ion: 65 Resp: 300499
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014294.D
 Acq: 27 Dec 2019 02:02

Tgt Ion: 114 Resp: 841515
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.8
 88 15.9 0.0 30.4





#35

Dibromofluoromethane

Concen: 48.294 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014294.D

Acq: 27 Dec 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

K005-AA-WC-2

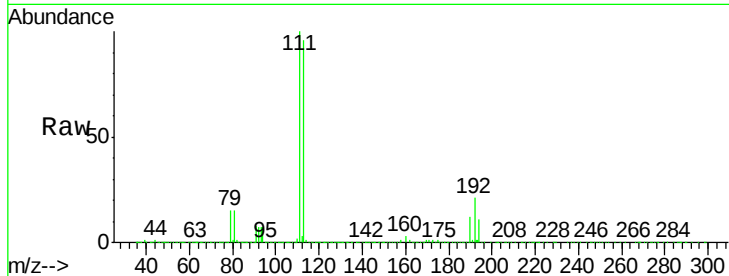
Tgt Ion:113 Resp: 247046

Ion Ratio Lower Upper

113 100

111 103.1 82.0 123.0

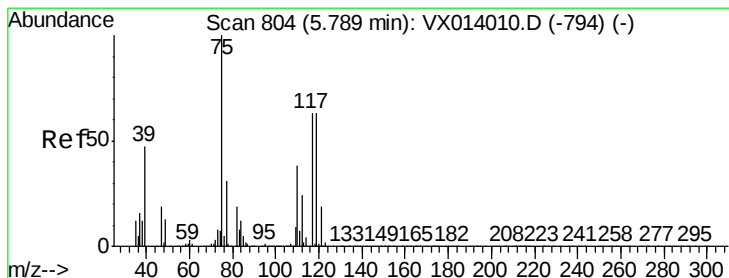
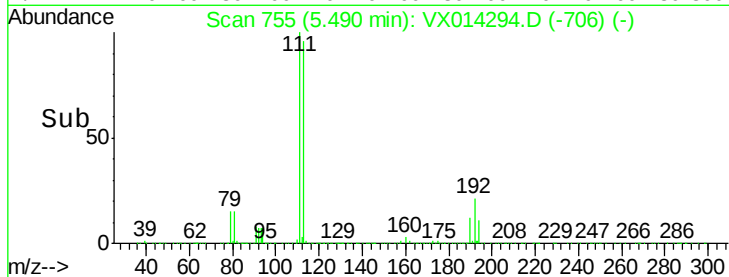
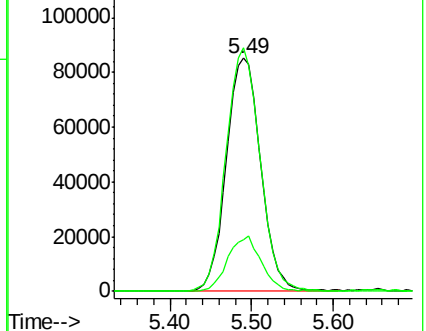
192 23.4 19.3 28.9



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: 4.798 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014294.D

Acq: 27 Dec 2019 02:02

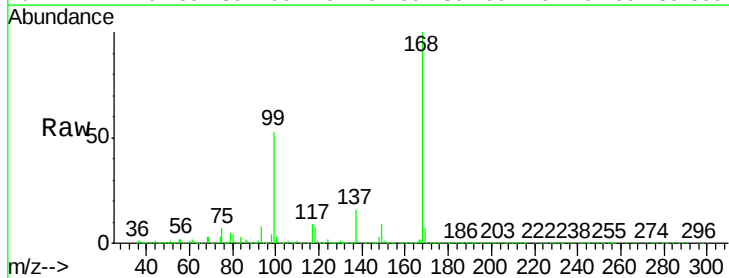
Tgt Ion: 75 Resp: 37045

Ion Ratio Lower Upper

75 100

110 11.3 18.3 54.9#

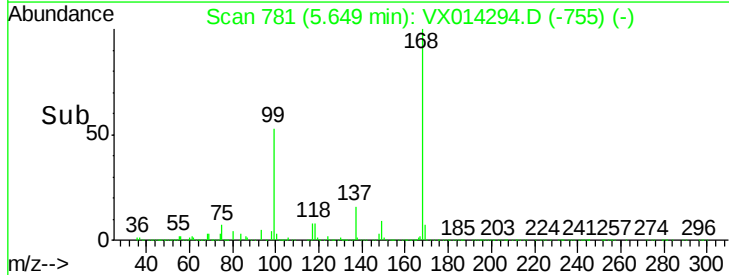
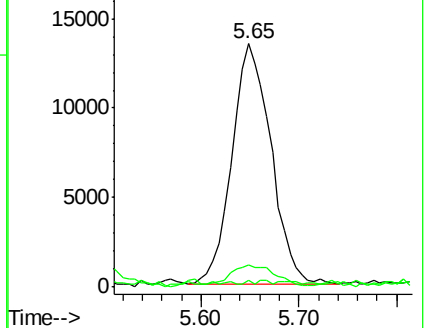
77 0.3 24.8 37.2#

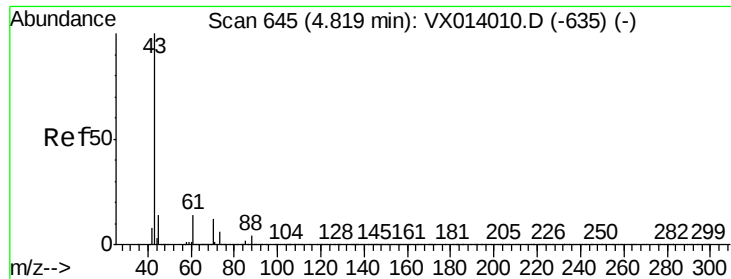


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

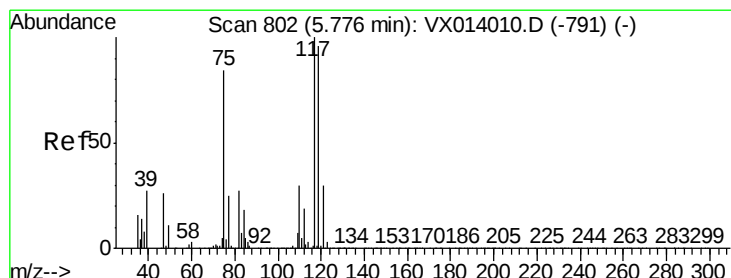
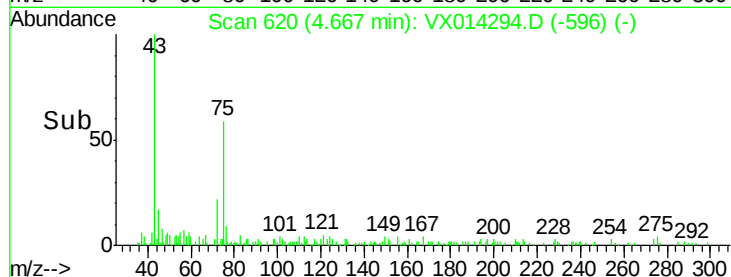
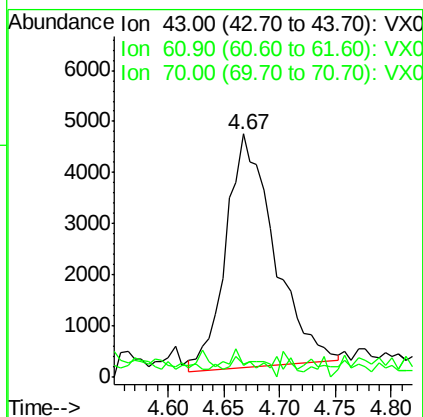
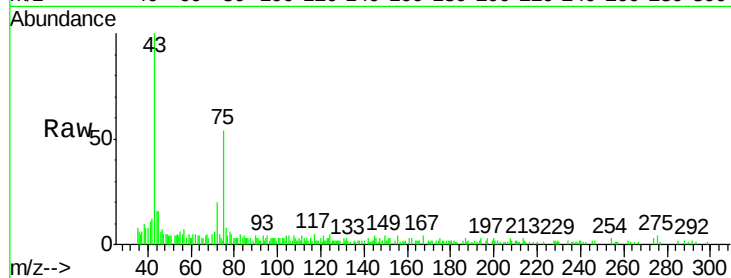




#37
Ethyl Acetate
Concen: 1.616 ug/l
RT: 4.67 min Scan# 620
Delta R.T. -0.15 min
Lab File: VX014294.D
Acq: 27 Dec 2019 02:02

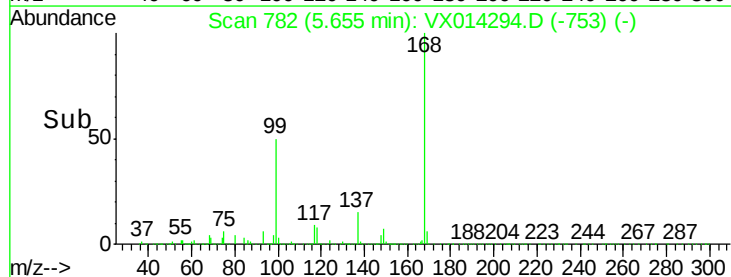
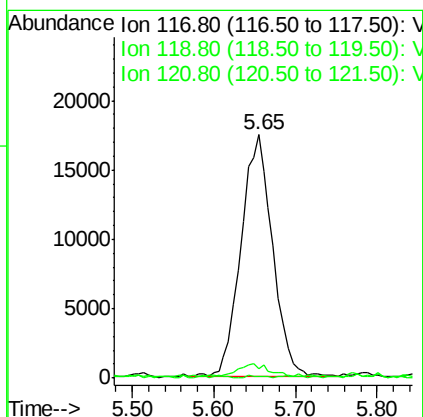
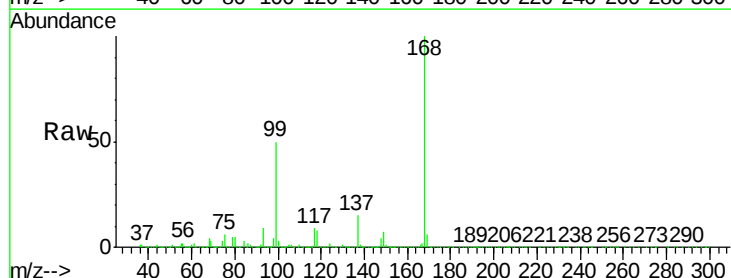
Instrument :
MSVOA_X
ClientSampleId :
K005-AA-WC-2

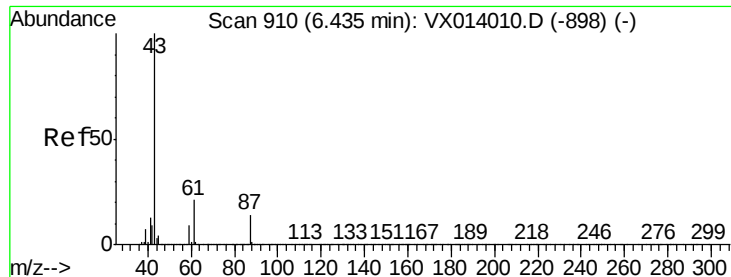
Tgt Ion: 43 Resp: 13775
Ion Ratio Lower Upper
43 100
61 1.9 10.8 16.2#
70 1.6 8.6 12.8#



#38
Carbon Tetrachloride
Concen: 6.688 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX014294.D
Acq: 27 Dec 2019 02:02

Tgt Ion: 117 Resp: 47045
Ion Ratio Lower Upper
117 100
119 3.0 76.2 114.4#
121 0.9 23.6 35.4#





#43

Isopropyl Acetate

Concen: 8.719 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014294.D

Acq: 27 Dec 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

K005-AA-WC-2

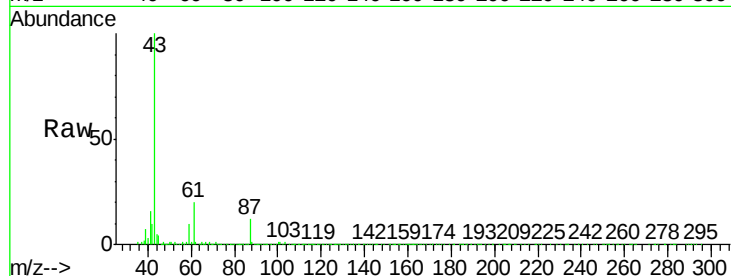
Tgt Ion: 43 Resp: 123032

Ion Ratio Lower Upper

43 100

61 20.6 16.4 24.6

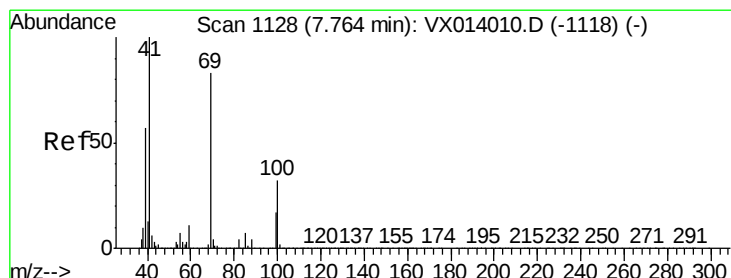
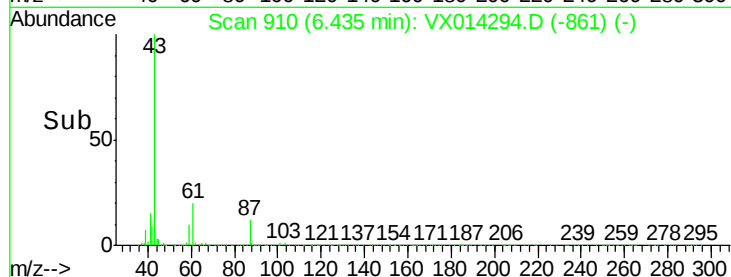
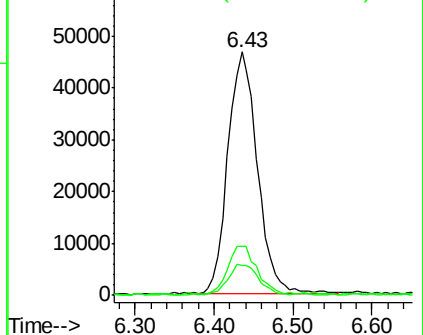
87 12.6 10.7 16.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.076 ug/l

RT: 7.67 min Scan# 1112

Delta R.T. -0.10 min

Lab File: VX014294.D

Acq: 27 Dec 2019 02:02

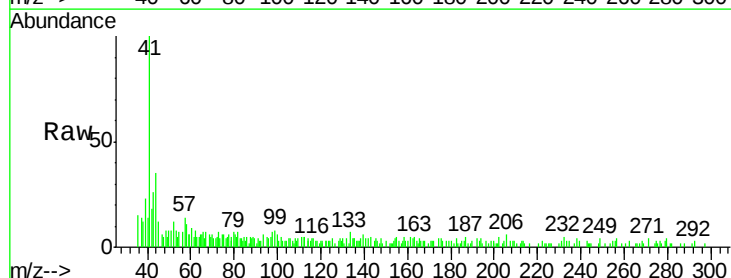
Tgt Ion: 41 Resp: 7433

Ion Ratio Lower Upper

41 100

69 5.5 65.8 98.6#

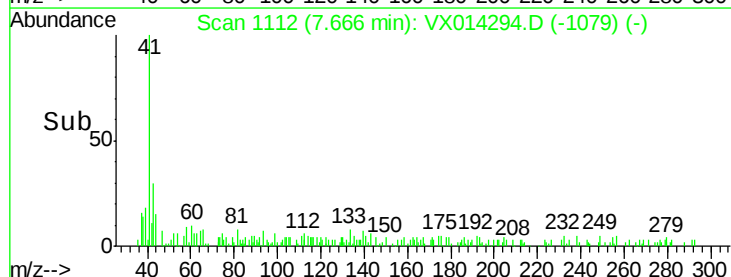
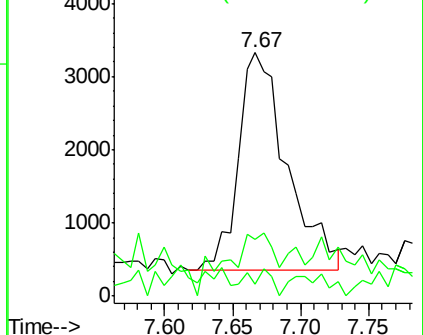
39 0.0 44.6 67.0#

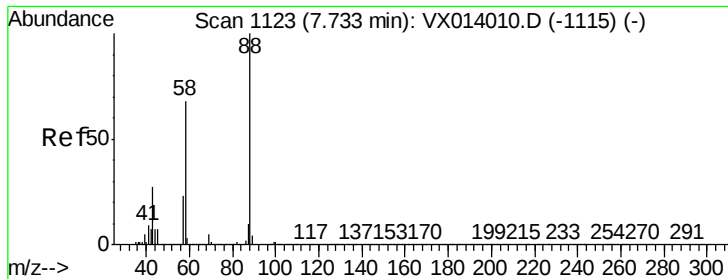


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.027 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VX014294.D

Acq: 27 Dec 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

K005-AA-WC-2

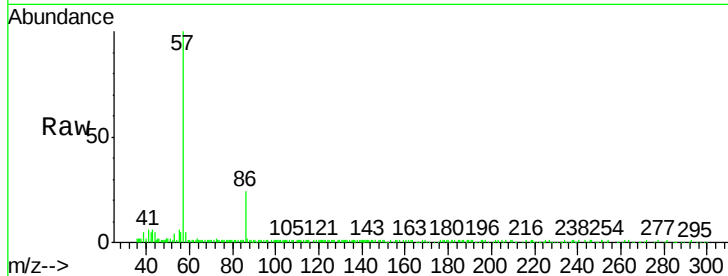
Tgt Ion: 88 Resp: 285

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

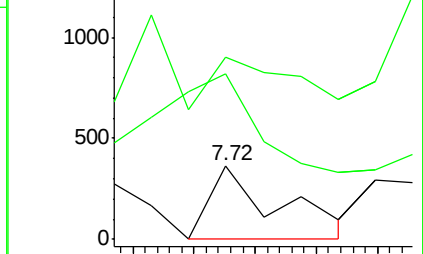
58 398.2 56.8 85.2#



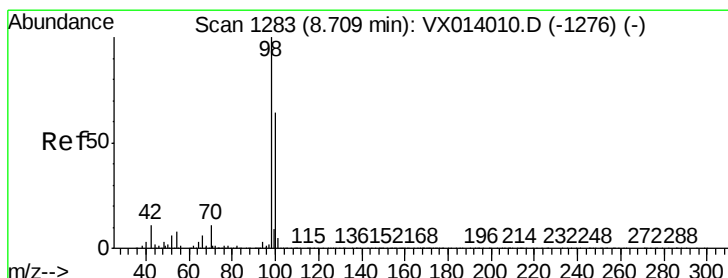
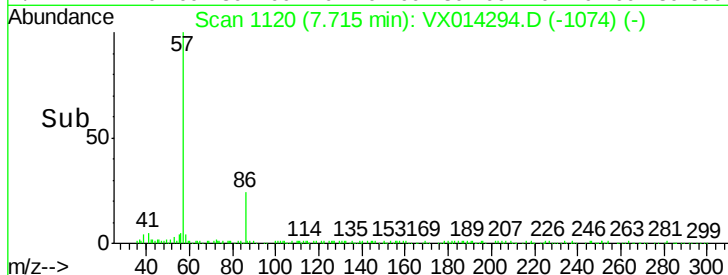
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 50.490 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014294.D

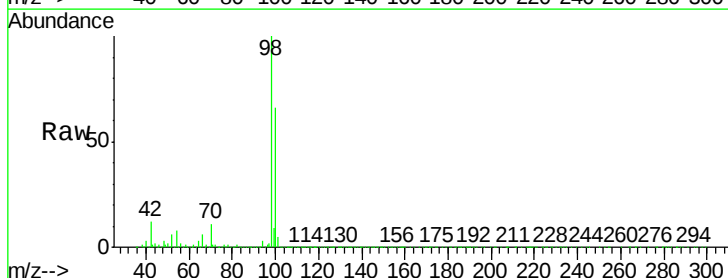
Acq: 27 Dec 2019 02:02

Tgt Ion: 98 Resp: 1005549

Ion Ratio Lower Upper

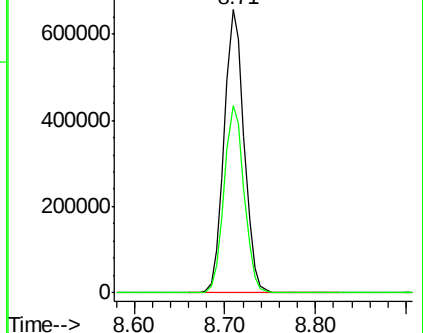
98 100

100 66.1 52.9 79.3

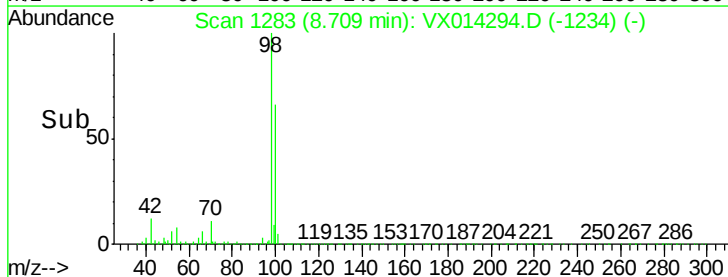


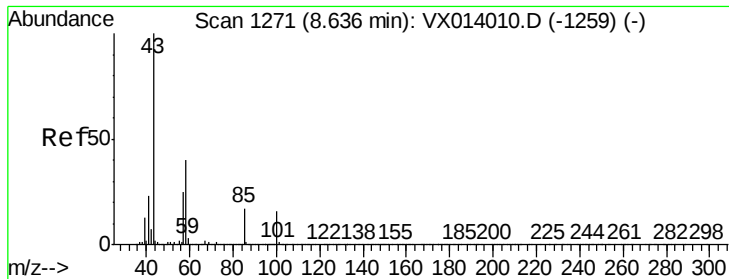
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



Time-->

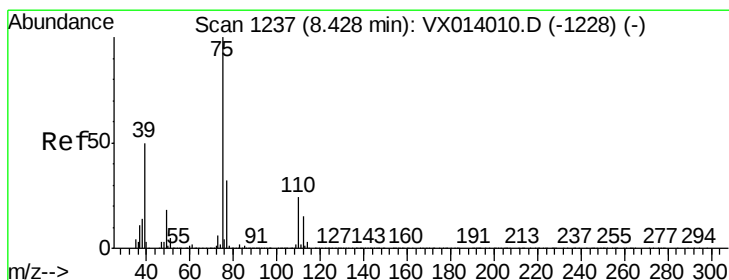
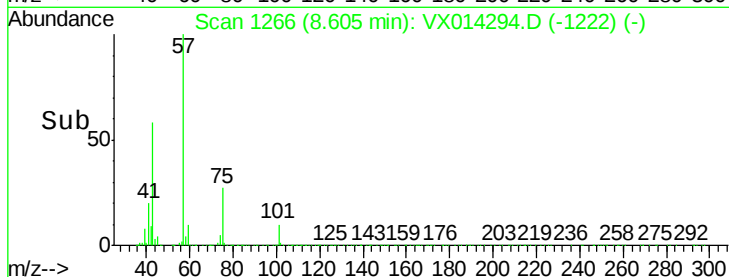
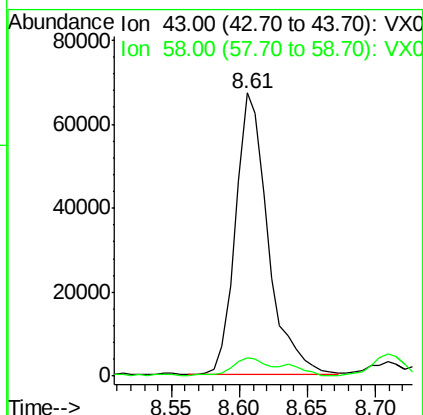
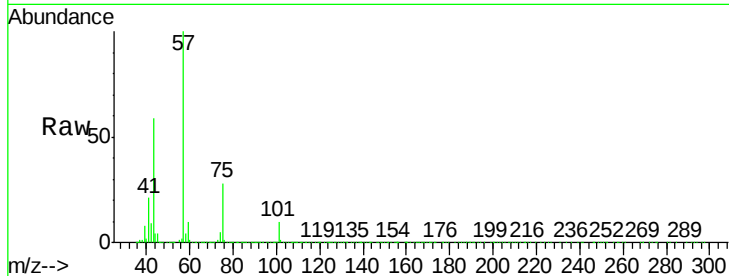




#51
 4-Methyl-2-Pentanone
 Concen: 12.599 ug/l
 RT: 8.61 min Scan# 1266
 Delta R.T. -0.03 min
 Lab File: VX014294.D
 Acq: 27 Dec 2019 02:02

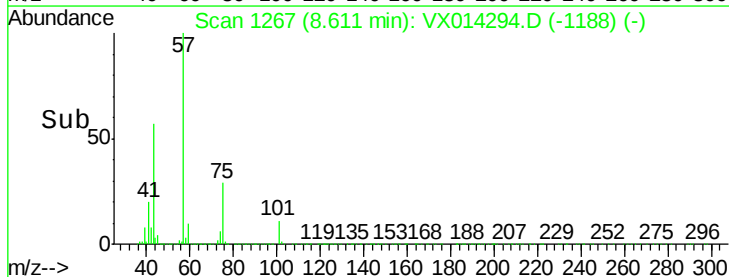
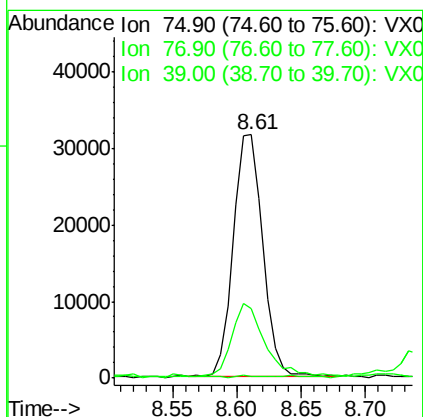
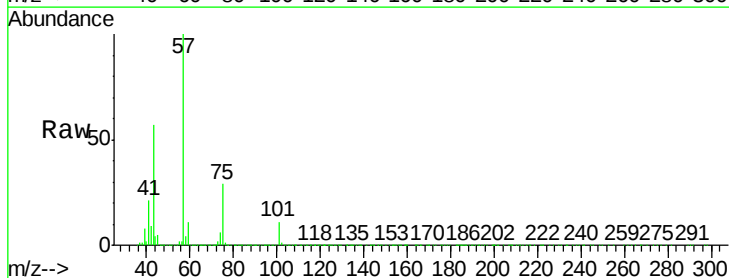
Instrument :
 MSVOA_X
 ClientSampleId :
 K005-AA-WC-2

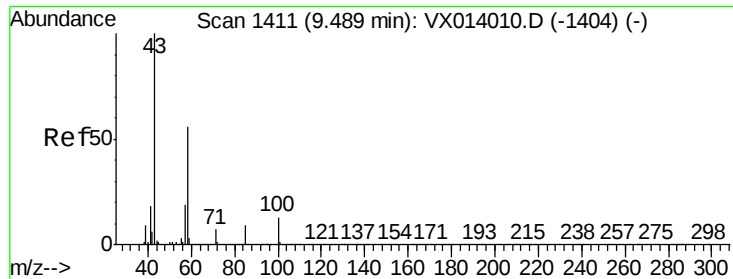
Tgt Ion: 43 Resp: 111656
 Ion Ratio Lower Upper
 43 100
 58 9.3 32.2 48.2#



#54
 cis-1,3-Dichloropropene
 Concen: 5.475 ug/l
 RT: 8.61 min Scan# 1267
 Delta R.T. 0.18 min
 Lab File: VX014294.D
 Acq: 27 Dec 2019 02:02

Tgt Ion: 75 Resp: 50711
 Ion Ratio Lower Upper
 75 100
 77 0.2 25.3 37.9#
 39 28.0 39.9 59.9#

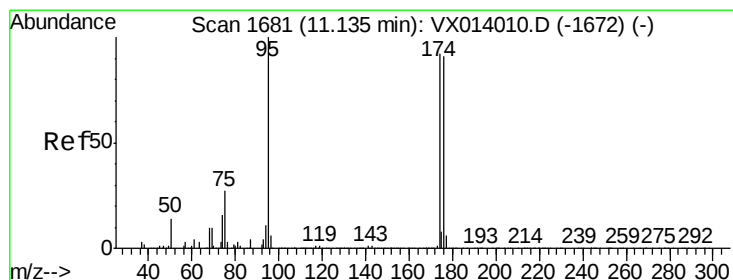
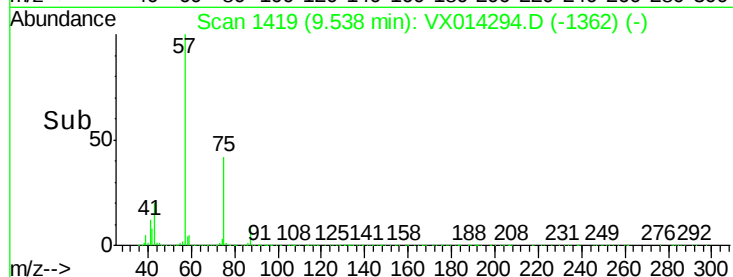
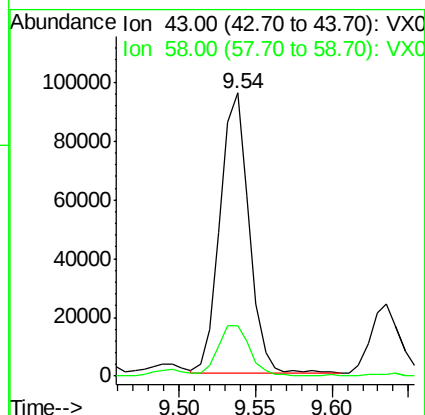
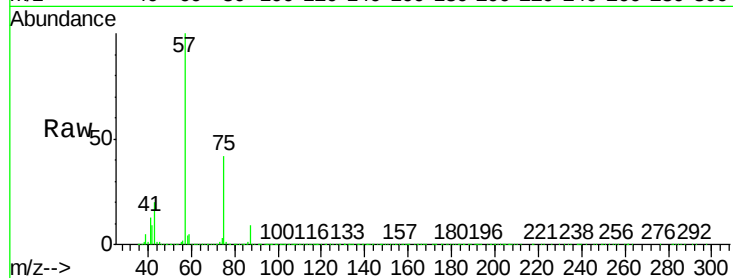




#59
2-Hexanone
Concen: 17.552 ug/l
RT: 9.54 min Scan# 1419
Delta R.T. 0.05 min
Lab File: VX014294.D
Acq: 27 Dec 2019 02:02

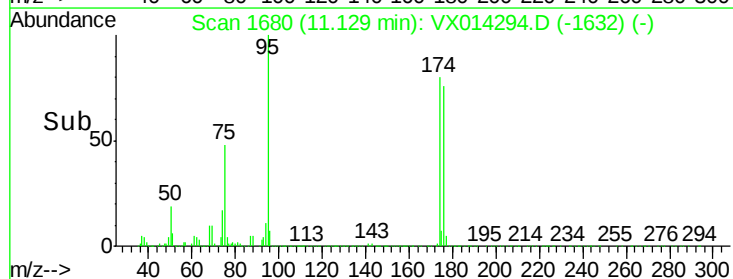
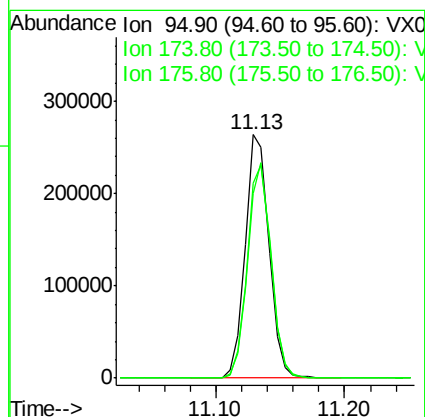
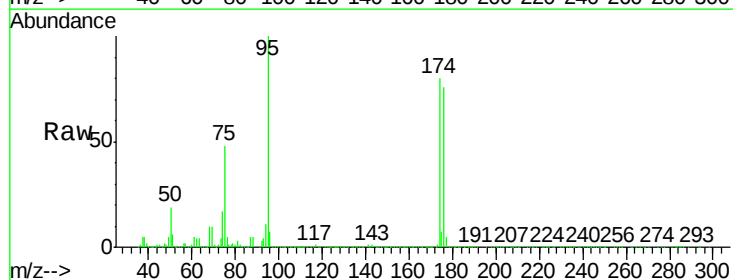
Instrument :
MSVOA_X
ClientSampled :
K005-AA-WC-2

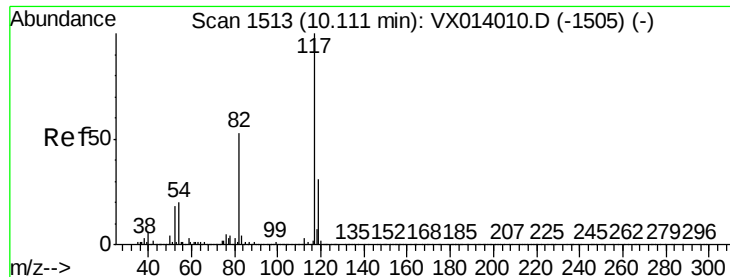
Tgt Ion: 43 Resp: 125218
Ion Ratio Lower Upper
43 100
58 19.7 28.0 84.0#



#62
4-Bromofluorobenzene
Concen: 45.902 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014294.D
Acq: 27 Dec 2019 02:02

Tgt Ion: 95 Resp: 334173
Ion Ratio Lower Upper
95 100
174 88.3 0.0 175.8
176 86.3 0.0 173.0

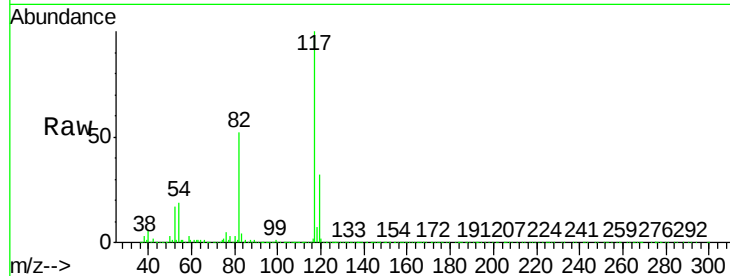




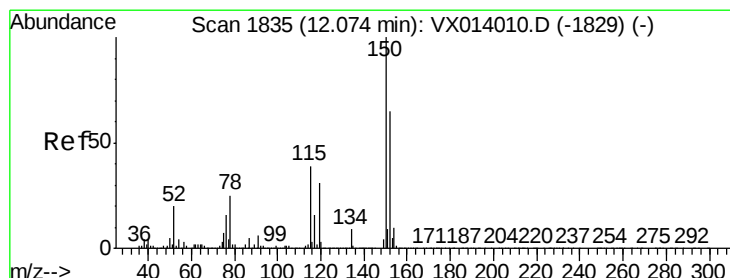
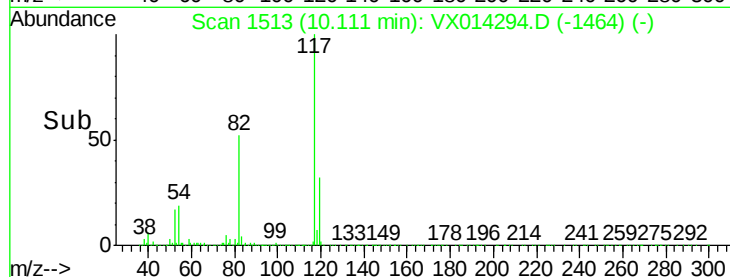
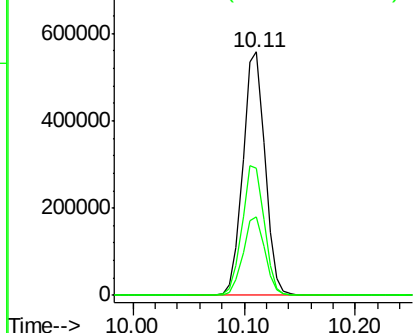
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014294.D
Acq: 27 Dec 2019 02:02

Instrument :
MSVOA_X
ClientSampleId :
K005-AA-WC-2

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.9	42.2	63.4
119	32.2	25.1	37.7

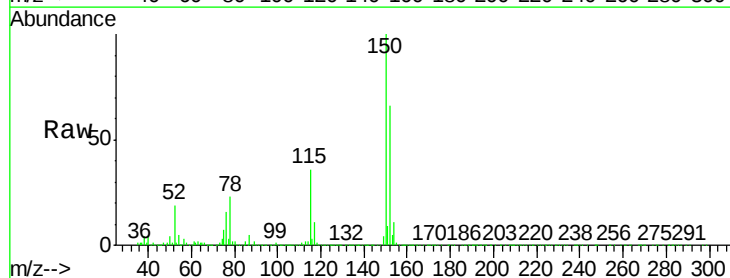


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

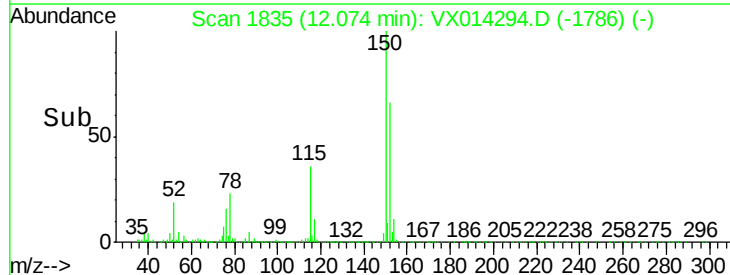
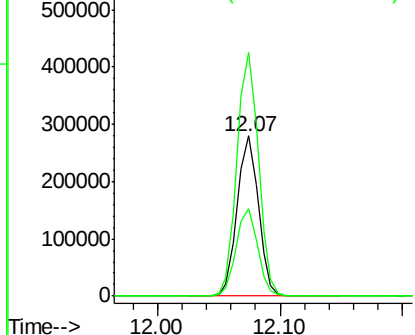


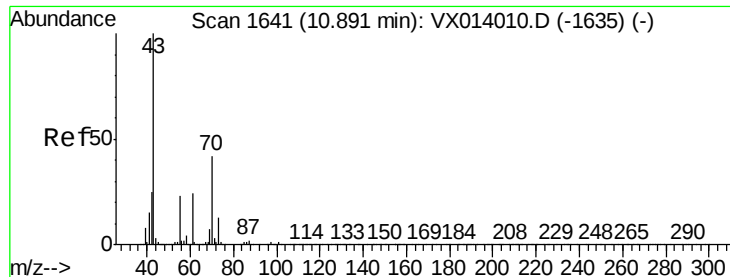
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014294.D
Acq: 27 Dec 2019 02:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.1	38.3	114.9
150	154.2	0.0	345.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 0.614 ug/l

RT: 10.82 min Scan# 1630

Delta R.T. -0.07 min

Lab File: VX014294.D

Acq: 27 Dec 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

K005-AA-WC-2

Tgt Ion: 43 Resp: 6757

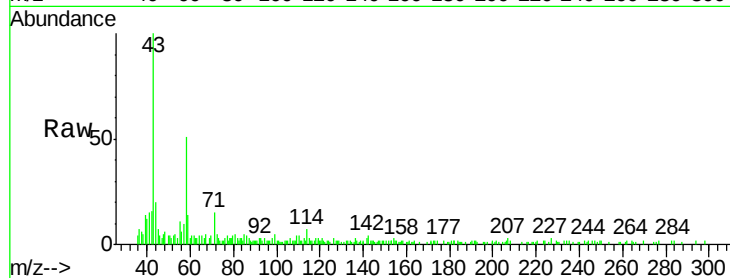
Ion Ratio Lower Upper

43 100

70 11.9 34.4 51.6#

55 9.0 19.1 28.7#

61 0.0 19.7 29.5#

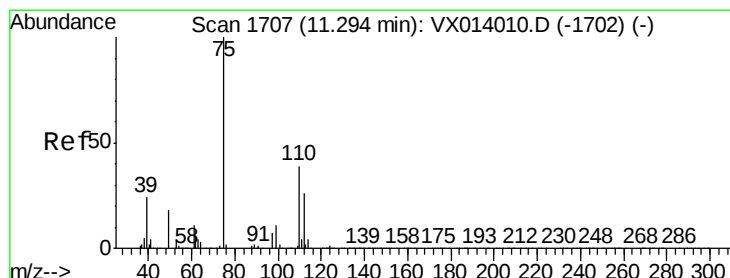
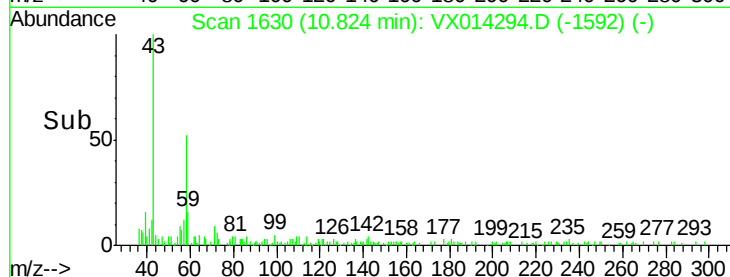
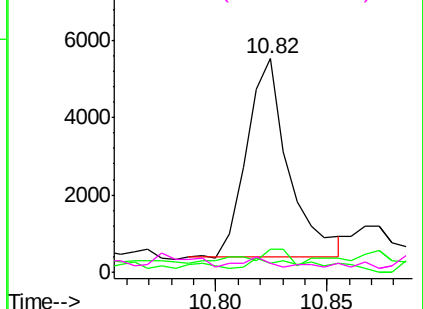


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 22.379 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014294.D

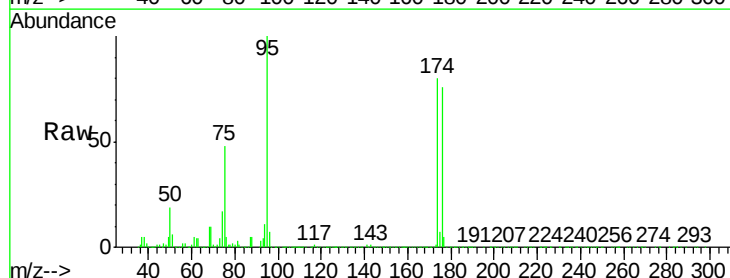
Acq: 27 Dec 2019 02:02

Tgt Ion: 75 Resp: 162058

Ion Ratio Lower Upper

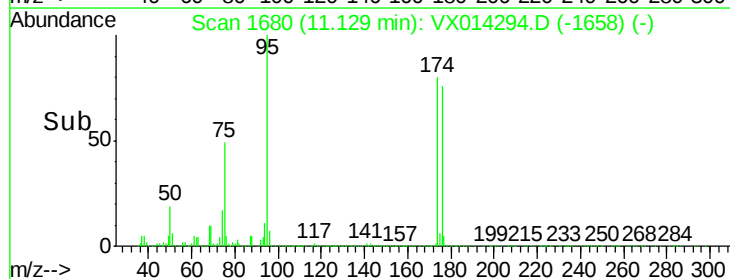
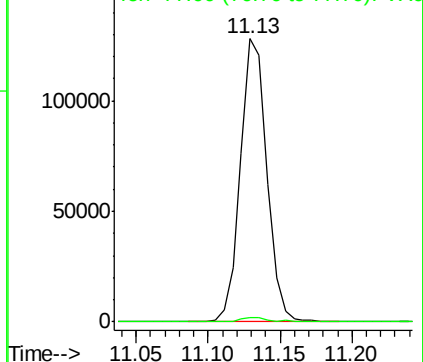
75 100

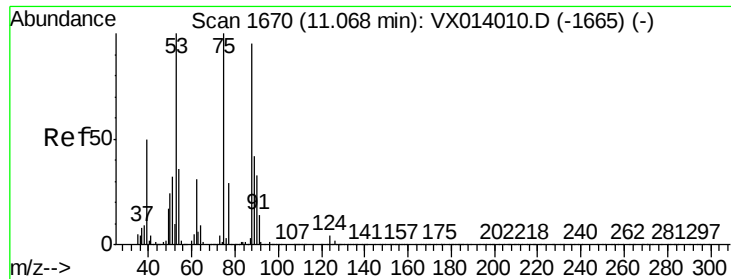
77 1.5 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 63.166 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014294.D

Acq: 27 Dec 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

K005-AA-WC-2

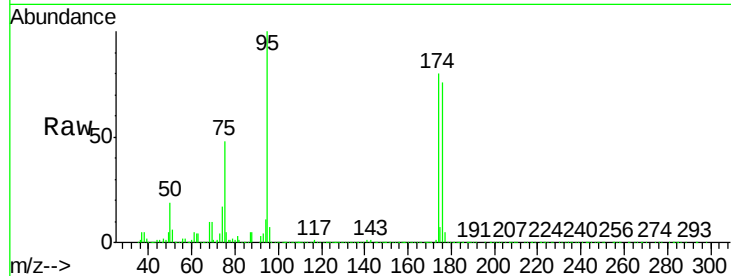
Tgt Ion: 75 Resp: 162058

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.1 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

