

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010320\
 Data File : VX014409.D
 Acq On : 03 Jan 2020 18:33
 Operator : JC/SP
 Sample : K6479-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

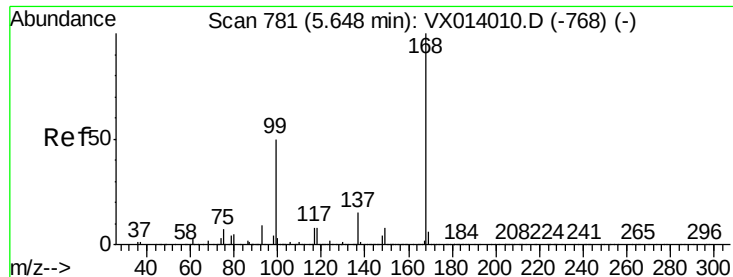
Quant Time: Jan 06 02:34:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	566381	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	860918	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	773829	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	346094	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	303322	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
35) Dibromofluoromethane	5.49	113	252539	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
50) Toluene-d8	8.71	98	1020360	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
62) 4-Bromofluorobenzene	11.13	95	349945	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.80	64	1881	0.425	ug/l #	45
10) Methyl Iodide	2.49	142	155	2.642	ug/l #	1
11) Tert butyl alcohol	3.02	59	3967	2.860	ug/l #	70
13) Acrolein	2.29	56	565	0.712	ug/l	97
16) Acetone	2.43	43	35912	8.617	ug/l	99
17) Carbon Disulfide	2.56	76	1129	0.824	ug/l #	52
18) Methyl Acetate	2.76	43	7256	0.879	ug/l	92
20) Methylene Chloride	2.84	84	15739	2.398	ug/l #	87
25) 2-Butanone	4.67	43	9458	1.841	ug/l #	81
28) Bromochloromethane	5.01	49	233	0.509	ug/l #	10
31) Cyclohexane	5.65	56	11300	1.178	ug/l #	2
36) 1,1-Dichloropropene	5.65	75	37257	4.716	ug/l #	51
38) Carbon Tetrachloride	5.65	117	50422	7.007	ug/l #	17
43) Isopropyl Acetate	6.43	43	136121	9.429	ug/l	99
48) Methyl methacrylate	7.67	41	7322	1.036	ug/l #	19
49) 1,4-Dioxane	7.73	88	430	2.989	ug/l #	23
51) 4-Methyl-2-Pentanone	8.61	43	123388	13.609	ug/l #	45
54) cis-1,3-Dichloropropene	8.61	75	55383	5.845	ug/l #	59
59) 2-Hexanone	9.54	43	122812	16.827	ug/l #	48
74) N-amyl acetate	10.82	43	5371	0.470	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	167047	22.232	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	167047	62.752	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

Instrument :

MSVOA_X

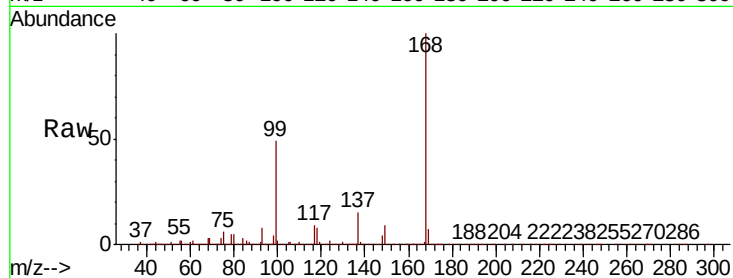
ClientSampled :

Tot Ion:168 Resp: 566381

Ion Ratio Lower Upper

168 100

99 48.6 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

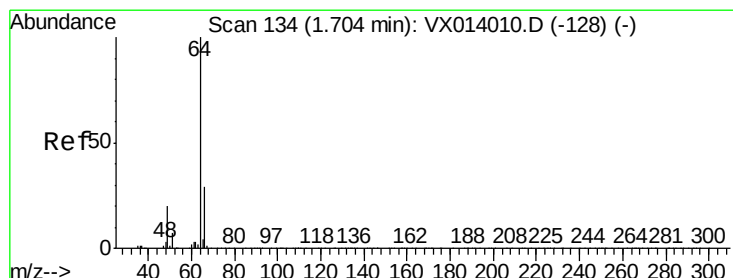
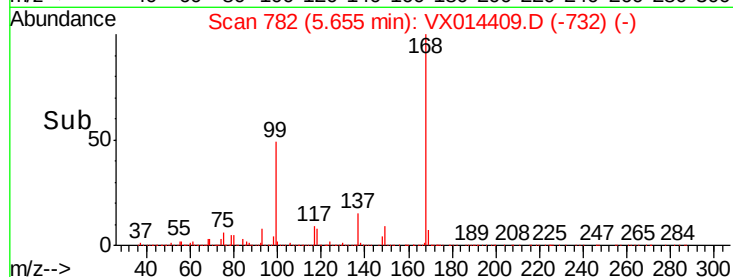
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.425 ug/l

RT: 1.80 min Scan# 150

Delta R.T. 0.10 min

Lab File: VX014409.D

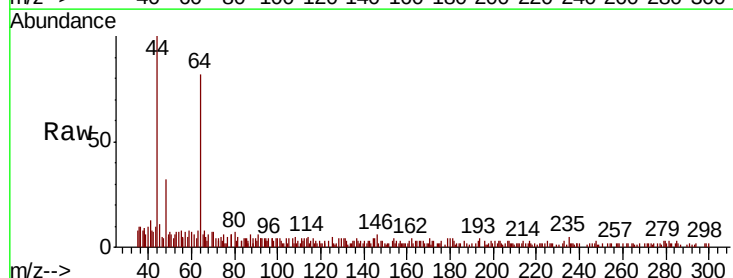
Acq: 03 Jan 2020 18:33

Tgt Ion: 64 Resp: 1881

Ion Ratio Lower Upper

64 100

66 0.0 23.4 35.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.80

4000

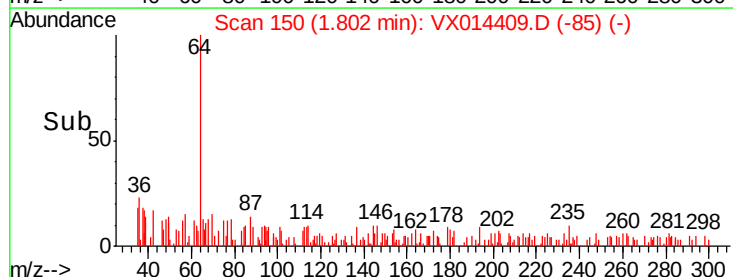
3000

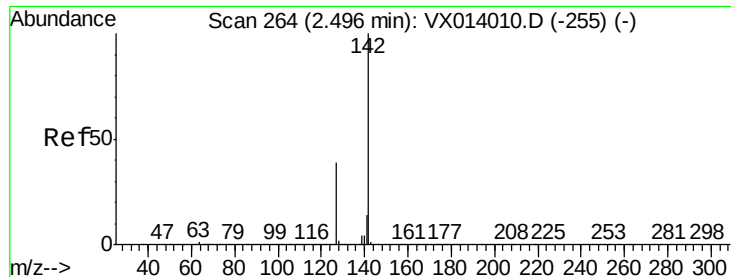
2000

1000

0

Time-->





#10

Methyl Iodide

Concen: 2.642 ug/l

RT: 2.49 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampled :

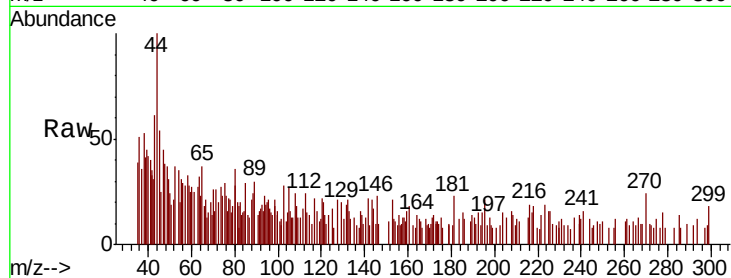
Tot Ion:142 Resp: 155

Ion Ratio Lower Upper

142 100

127 74.8 31.6 47.4#

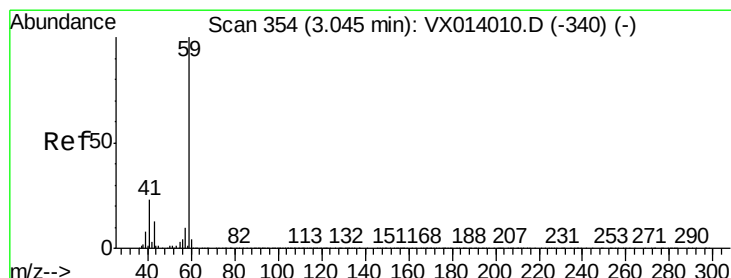
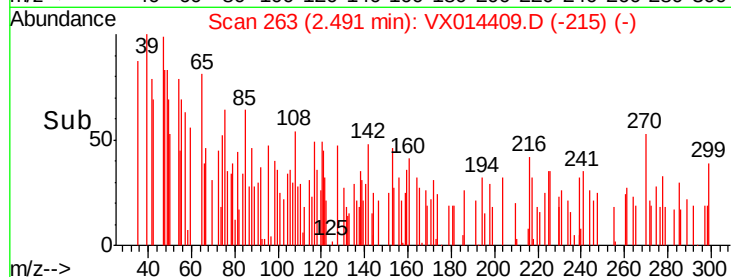
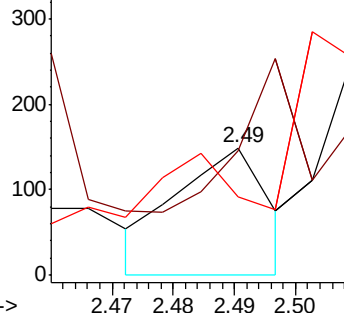
141 227.7 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 2.860 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.02 min

Lab File: VX014409.D

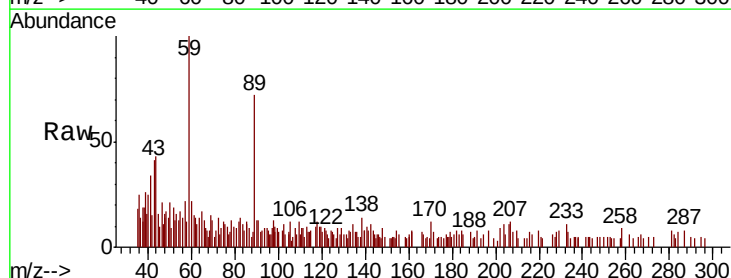
Acq: 03 Jan 2020 18:33

Tgt Ion: 59 Resp: 3967

Ion Ratio Lower Upper

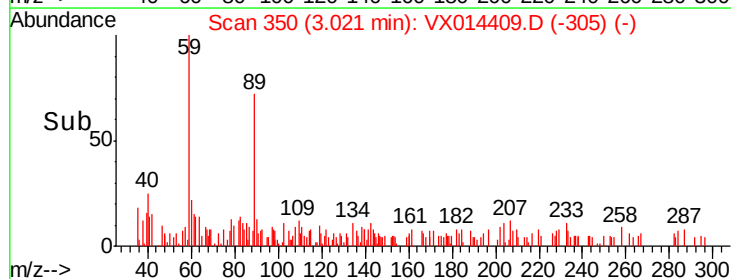
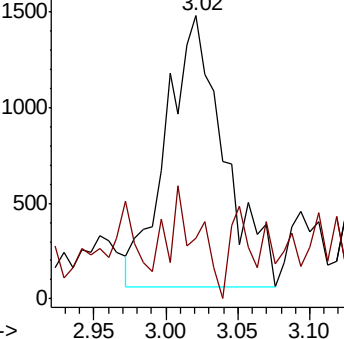
59 100

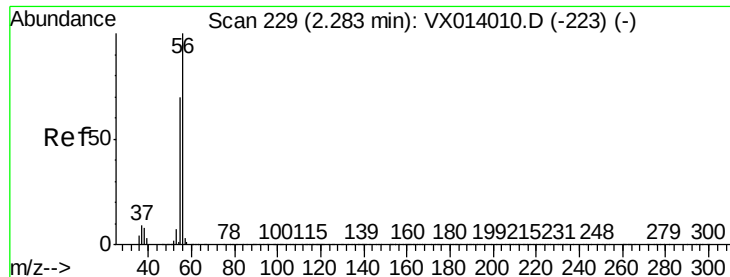
57 21.7 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.712 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

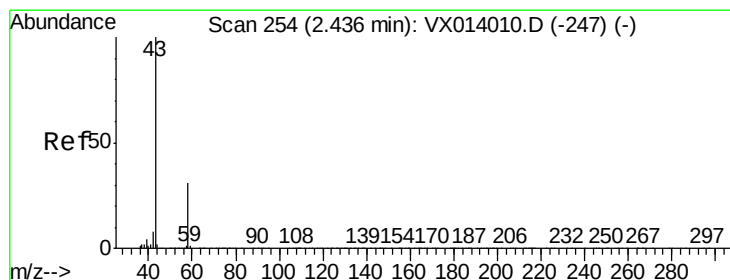
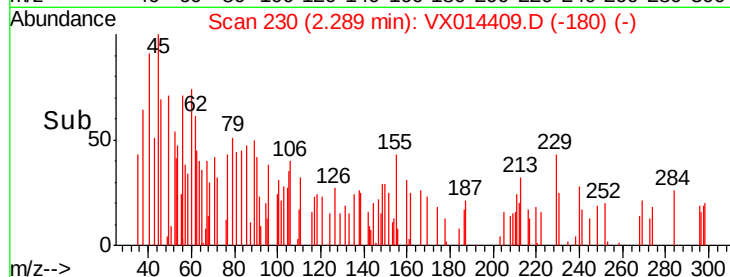
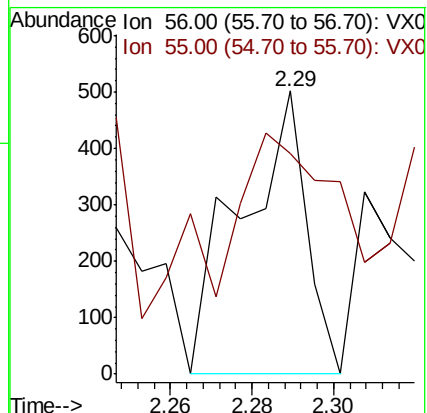
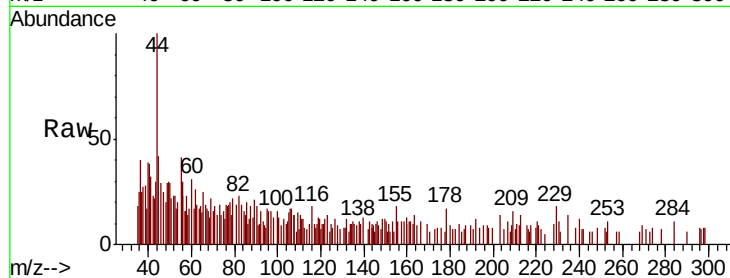
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 565

Ion Ratio Lower Upper

56 100

55 69.0 56.9 85.3



#16

Acetone

Concen: 8.617 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014409.D

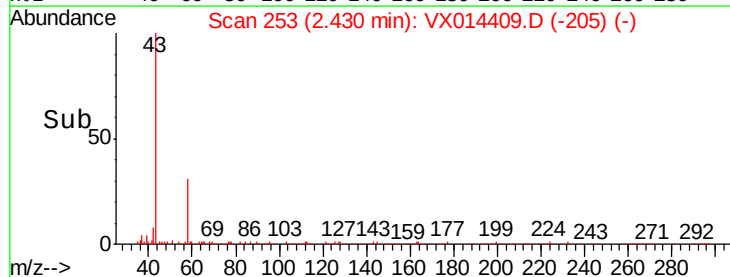
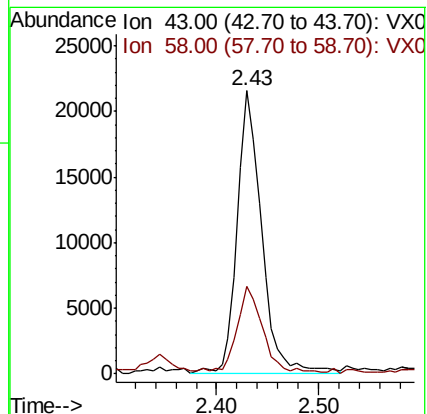
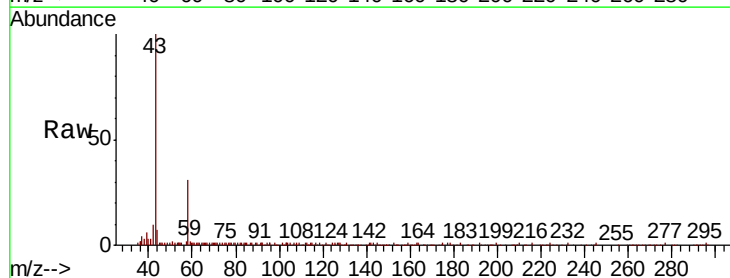
Acq: 03 Jan 2020 18:33

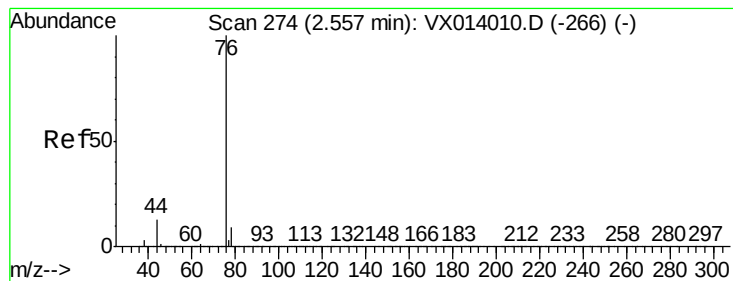
Tgt Ion: 43 Resp: 35912

Ion Ratio Lower Upper

43 100

58 30.3 24.9 37.3





#17

Carbon Disulfide

Concen: 0.824 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

Instrument :

MSVOA_X

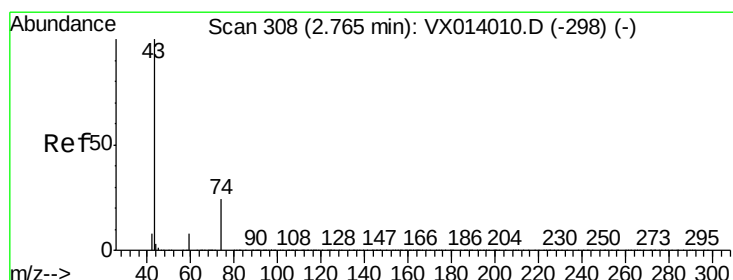
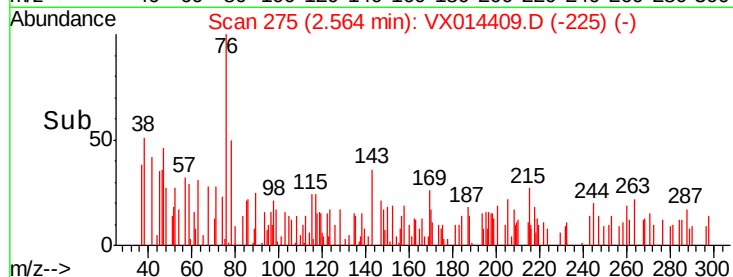
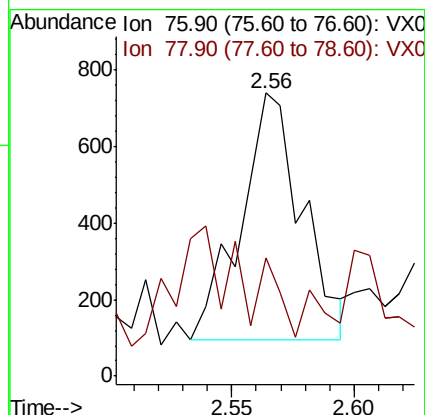
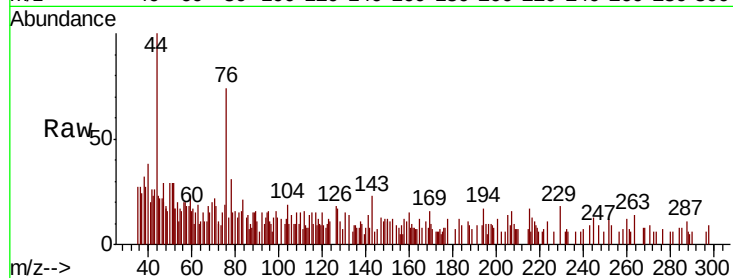
ClientSampleId :

Tot Ion: 76 Resp: 1129

Ion Ratio Lower Upper

76 100

78 26.4 7.2 10.8#



#18

Methyl Acetate

Concen: 0.879 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX014409.D

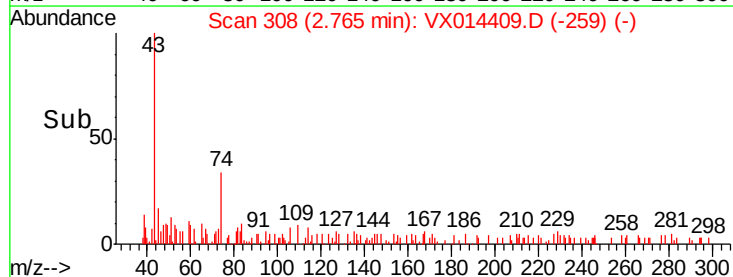
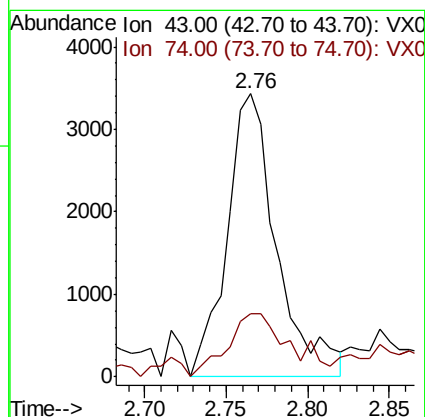
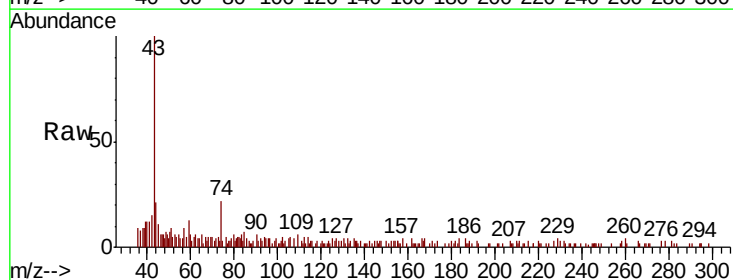
Acq: 03 Jan 2020 18:33

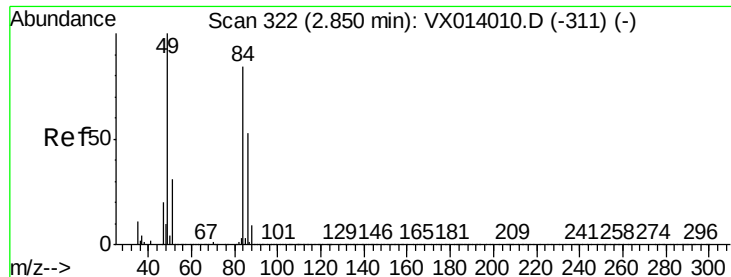
Tgt Ion: 43 Resp: 7256

Ion Ratio Lower Upper

43 100

74 28.2 19.5 29.3

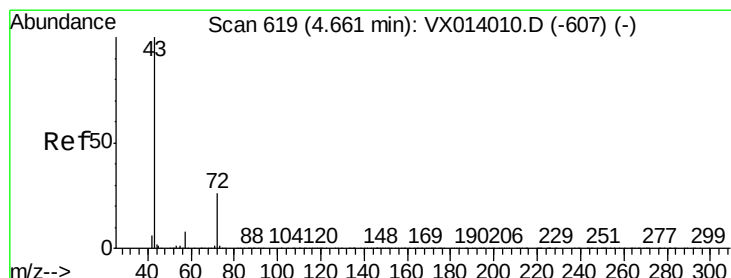
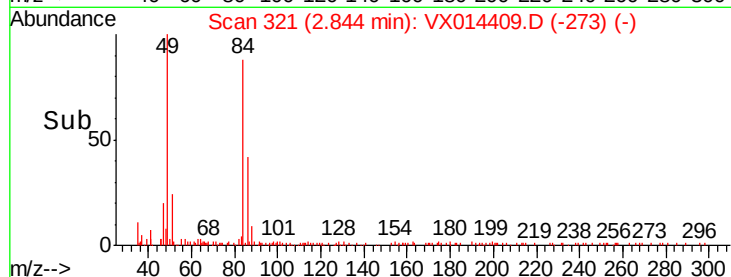
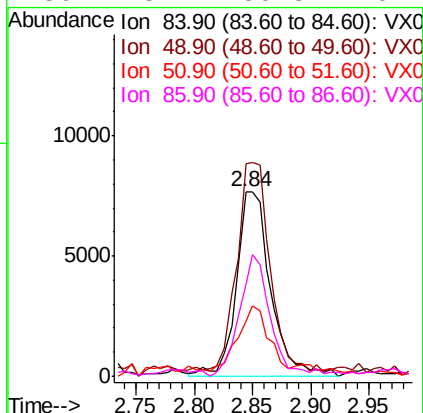
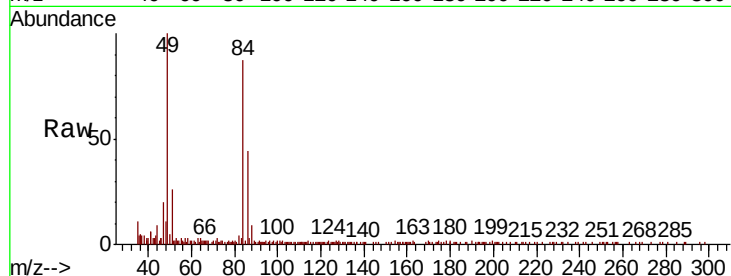




#20
Methylene Chloride
Concen: 2.398 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX014409.D
Acq: 03 Jan 2020 18:33

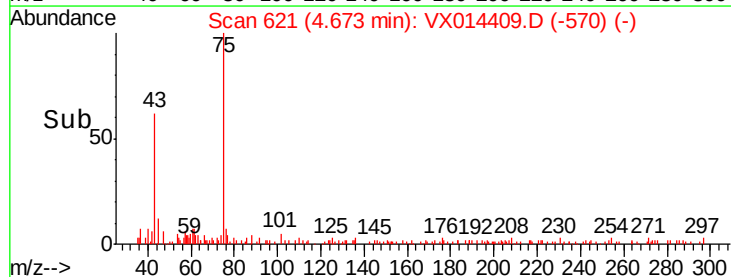
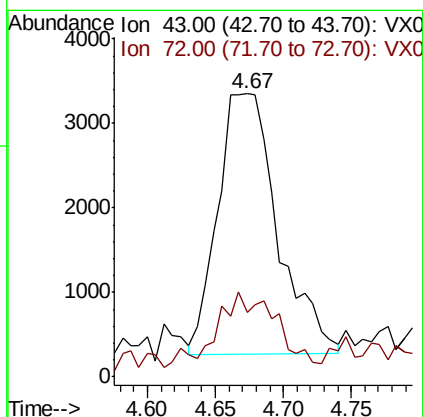
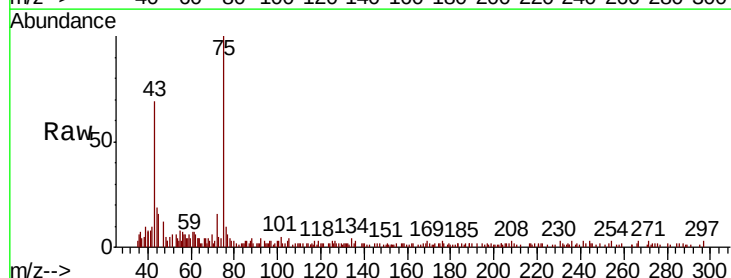
Instrument :
MSVOA_X
ClientSampled :

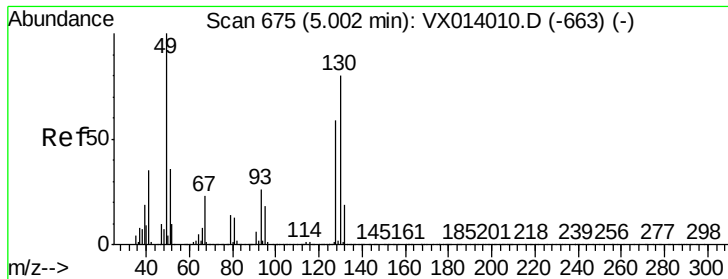
Tot Ion: 84 Resp: 15739
Ion Ratio Lower Upper
84 100
49 111.5 95.8 143.6
51 25.2 29.8 44.8#
86 48.4 50.8 76.2#



#25
2-Butanone
Concen: 1.841 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.01 min
Lab File: VX014409.D
Acq: 03 Jan 2020 18:33

Tgt Ion: 43 Resp: 9458
Ion Ratio Lower Upper
43 100
72 16.7 21.0 31.4#





#28

Bromochloromethane

Concen: 0.509 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampled :

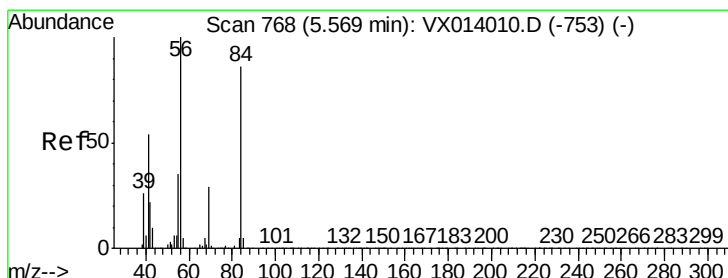
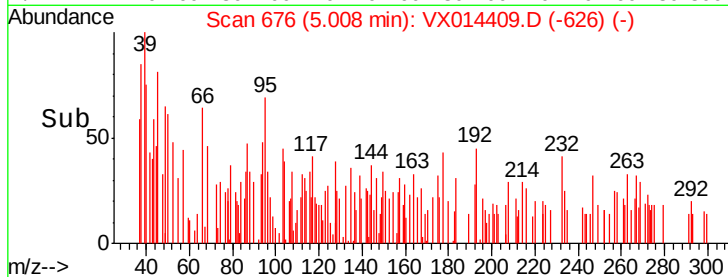
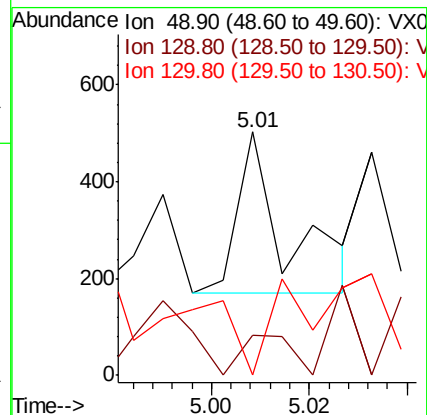
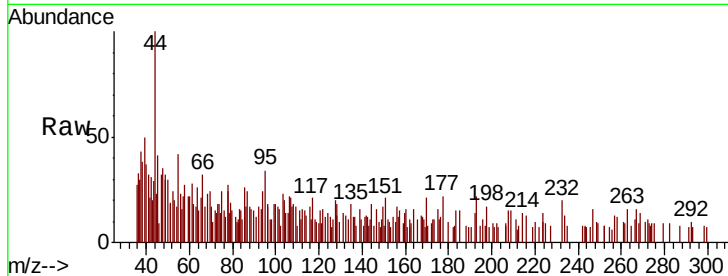
Tot Ion: 49 Resp: 233

Ion Ratio Lower Upper

49 100

129 25.8 0.0 5.0#

130 0.0 64.6 97.0#



#31

Cyclohexane

Concen: 1.178 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

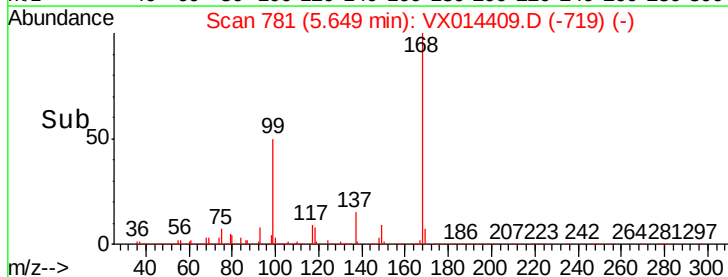
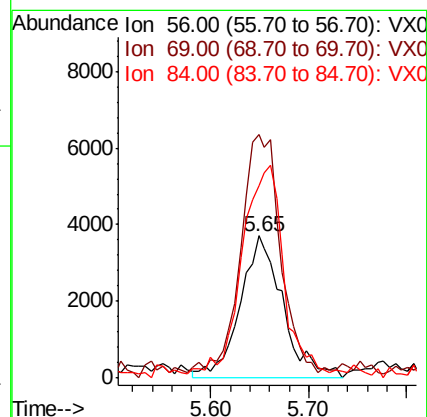
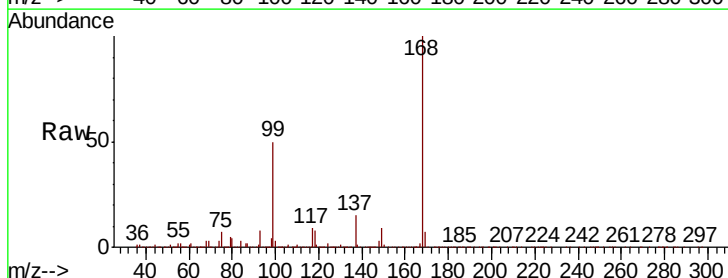
Tgt Ion: 56 Resp: 11300

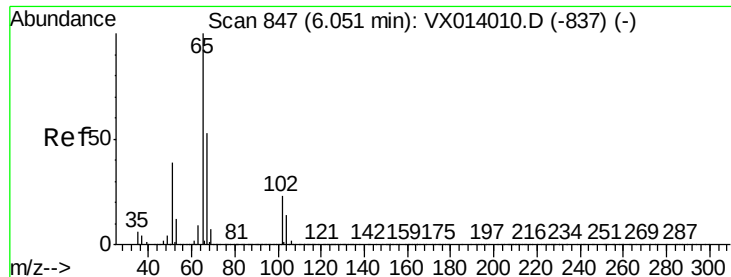
Ion Ratio Lower Upper

56 100

69 160.8 23.2 34.8#

84 130.9 69.2 103.8#

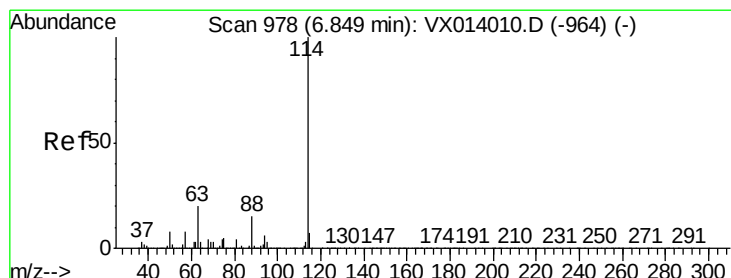
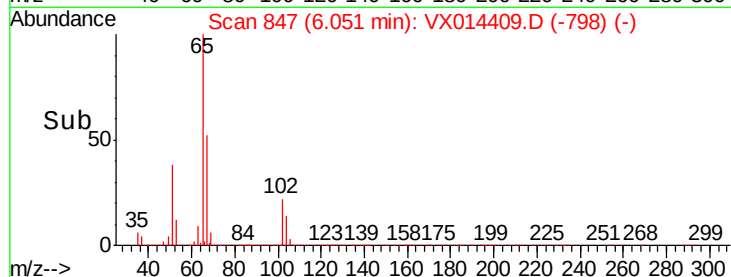
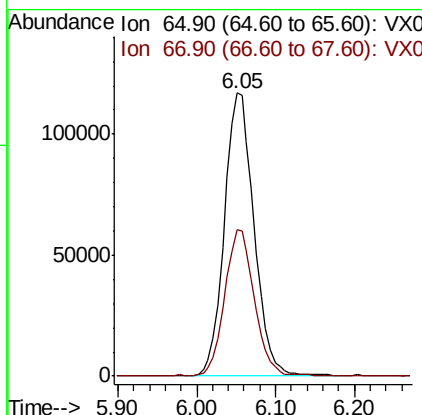
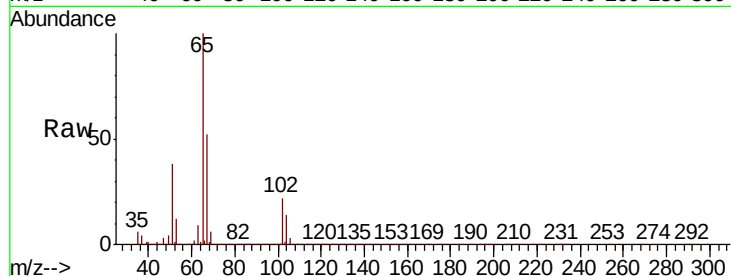




#33
 1,2-Dichloroethane-d4
 Concen: 47.253 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014409.D
 Acq: 03 Jan 2020 18:33

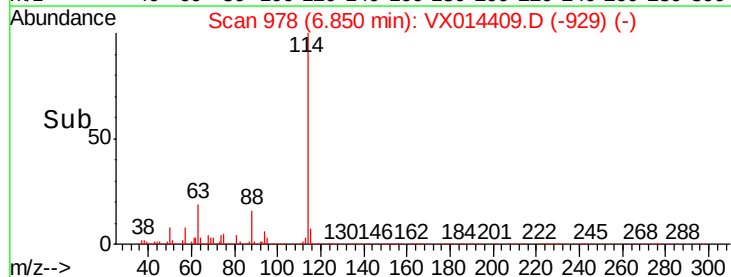
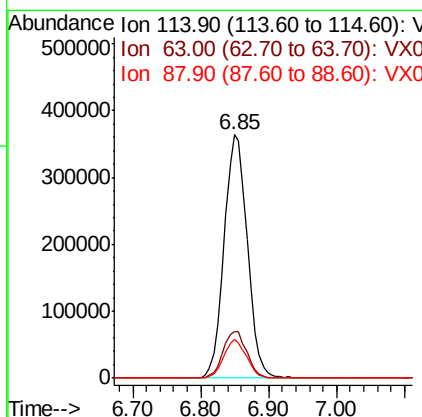
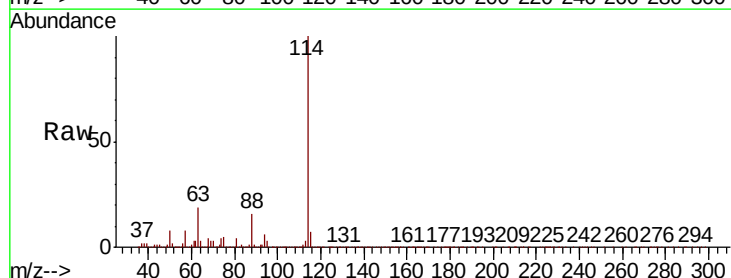
Instrument :
 MSVOA_X
 ClientSampled :

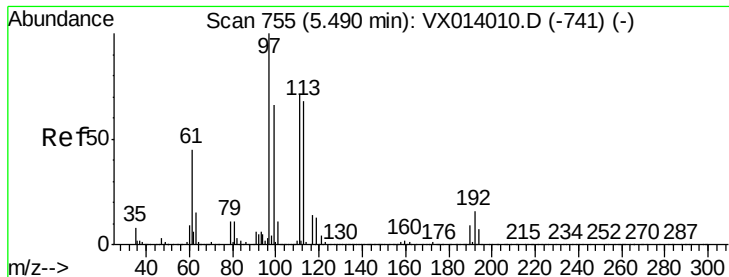
Tot Ion: 65 Resp: 303322
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014409.D
 Acq: 03 Jan 2020 18:33

Tgt Ion: 114 Resp: 860918
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 40.8
 88 16.0 0.0 30.4

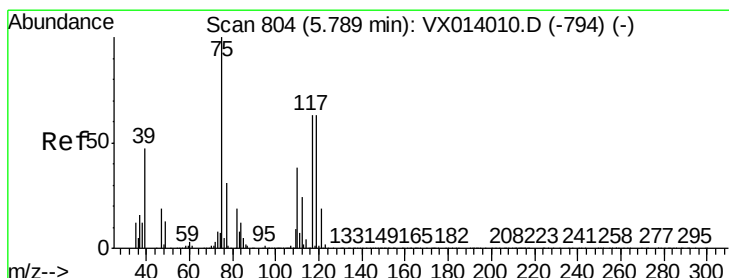
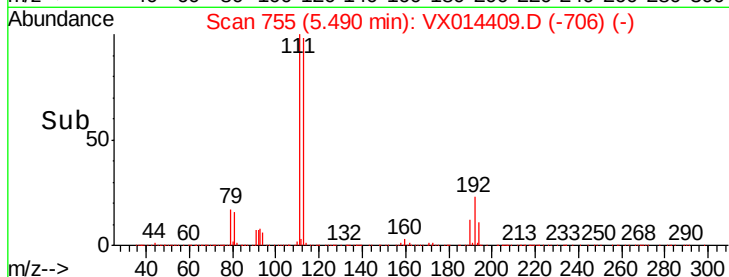
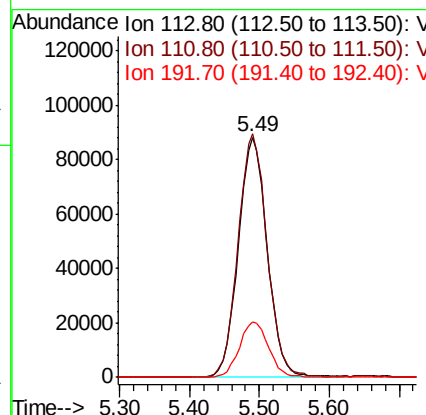
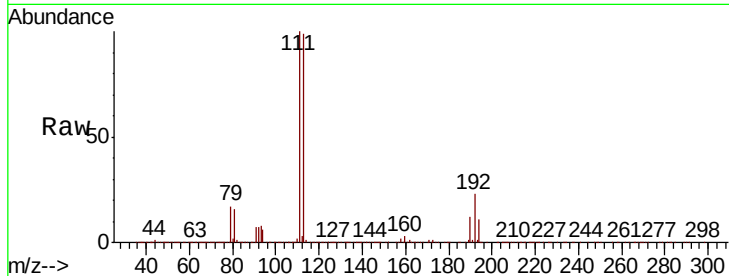




#35
 Dibromofluoromethane
 Concen: 48.255 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX014409.D
 Acq: 03 Jan 2020 18:33

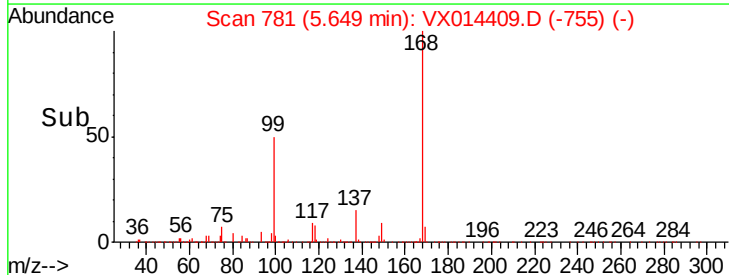
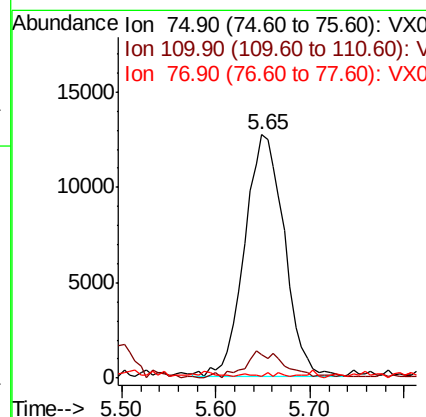
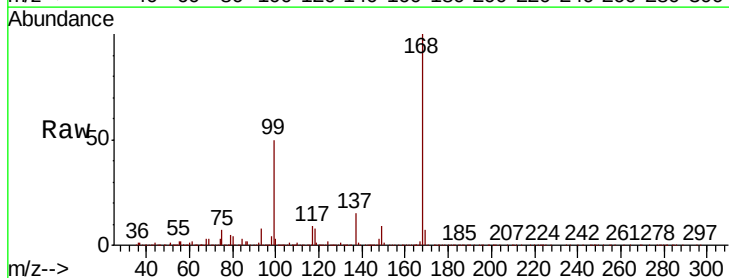
Instrument :
 MSVOA_X
 ClientSampleId :

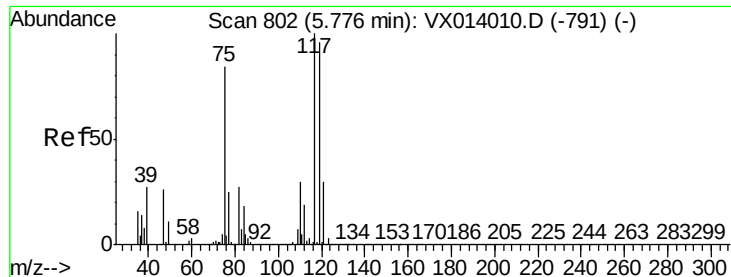
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.0	123.0
192	23.6	19.3	28.9



#36
 1,1-Dichloropropene
 Concen: 4.716 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014409.D
 Acq: 03 Jan 2020 18:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	18.3	54.9#
77	0.3	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 7.007 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampleId :

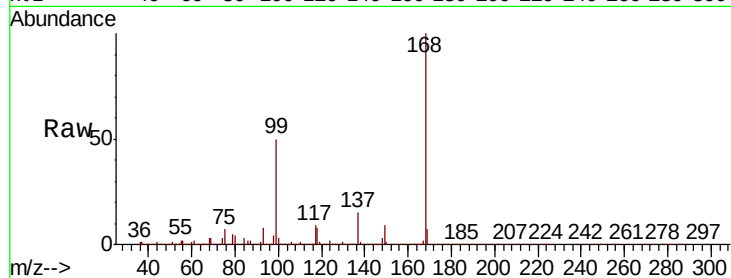
Tot Ion:117 Resp: 50422

Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.4#

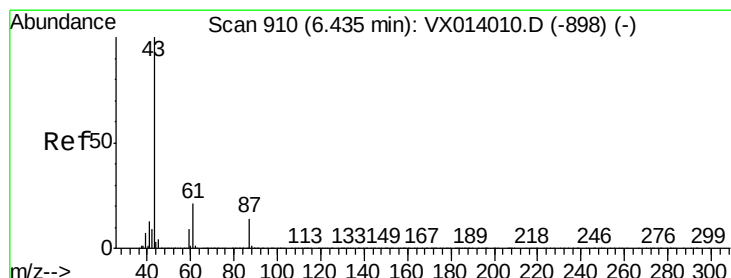
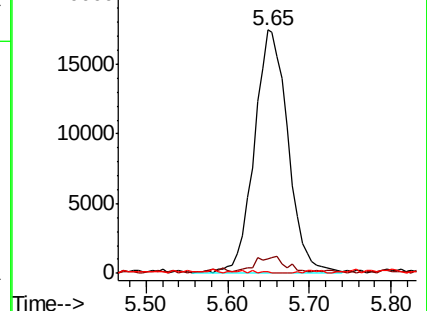
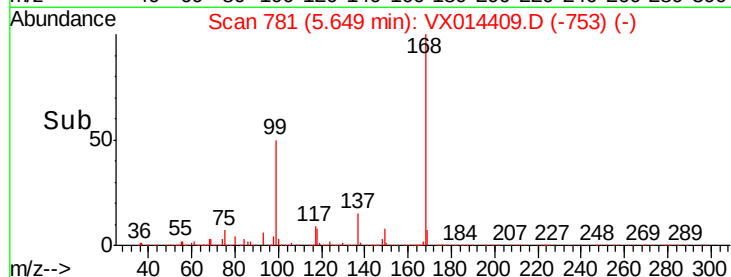
121 0.0 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 9.429 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

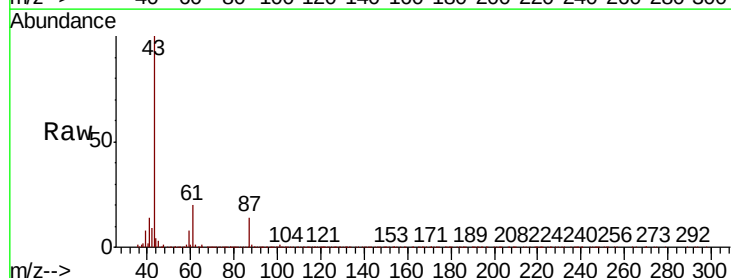
Tgt Ion: 43 Resp: 136121

Ion Ratio Lower Upper

43 100

61 20.6 16.4 24.6

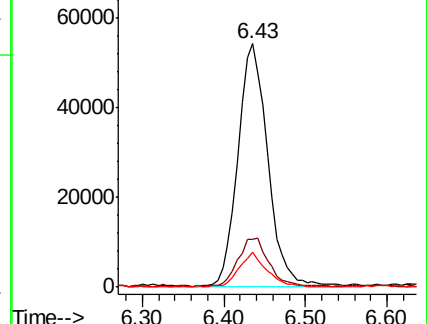
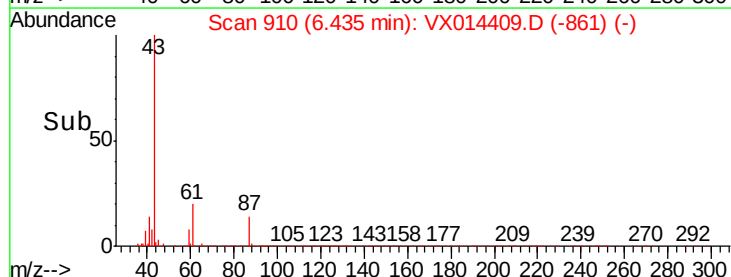
87 12.7 10.7 16.1

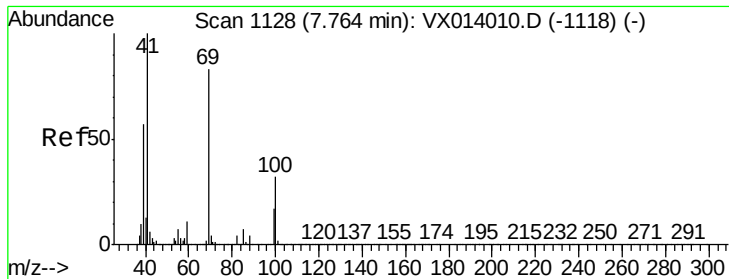


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

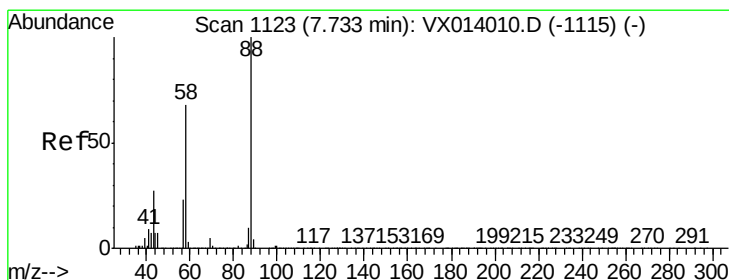
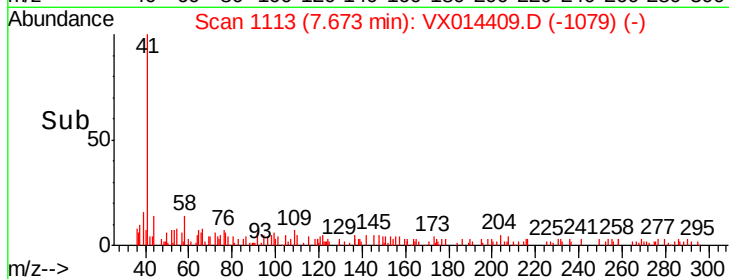
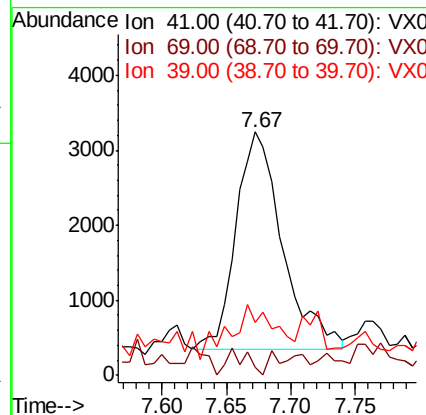
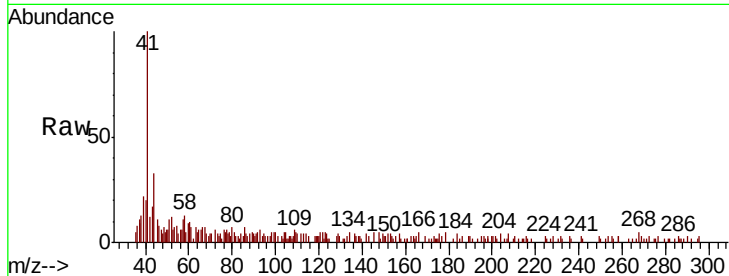




#48
Methvl methacrylate
Concen: 1.036 ug/l
RT: 7.67 min Scan# 1113
Delta R.T. -0.09 min
Lab File: VX014409.D
Acq: 03 Jan 2020 18:33

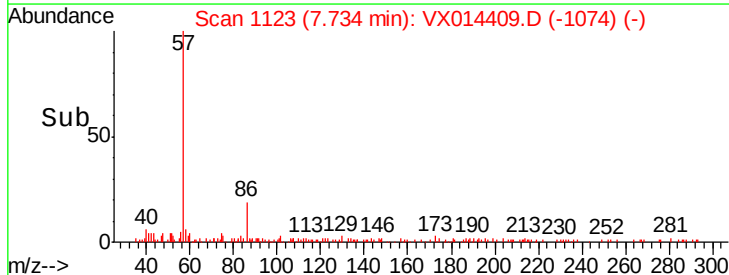
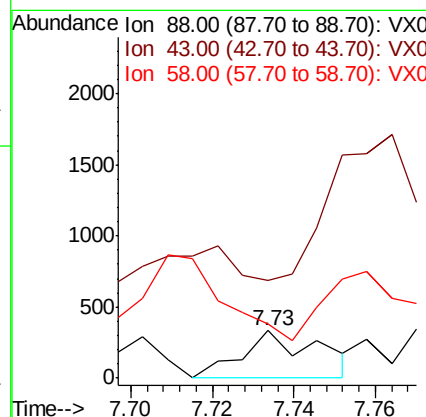
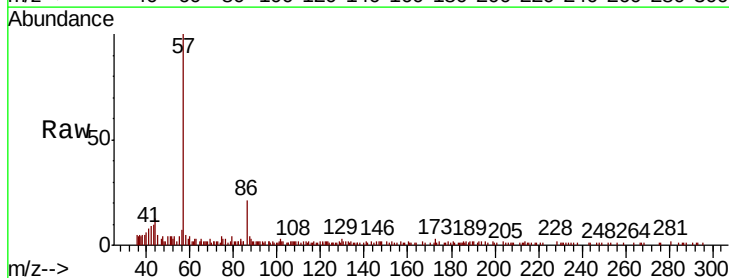
Instrument :
MSVOA_X
ClientSampleId :

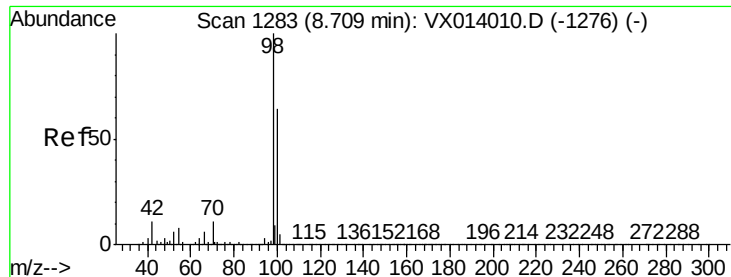
Tot Ion: 41 Resp: 7322
Ion Ratio Lower Upper
41 100
69 6.7 65.8 98.6#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.989 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. 0.00 min
Lab File: VX014409.D
Acq: 03 Jan 2020 18:33

Tgt Ion: 88 Resp: 430
Ion Ratio Lower Upper
88 100
43 0.0 26.5 39.7#
58 0.0 56.8 85.2#





#50

Toluene-d8

Concen: 50.079 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

Instrument :

MSVOA_X

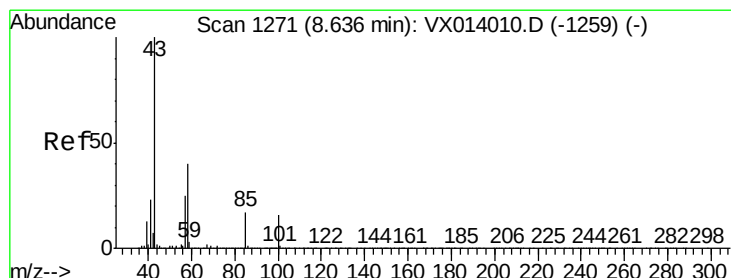
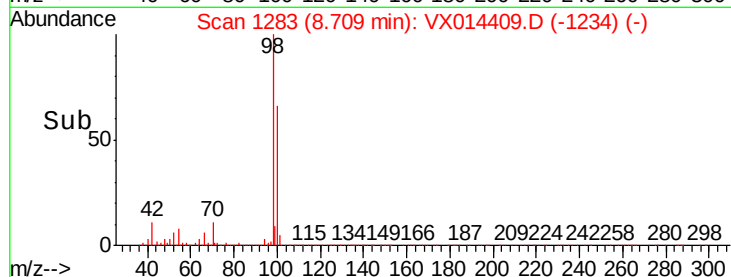
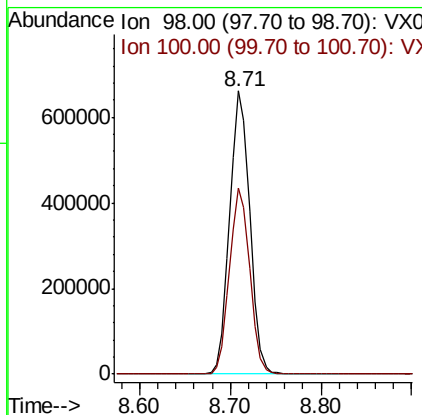
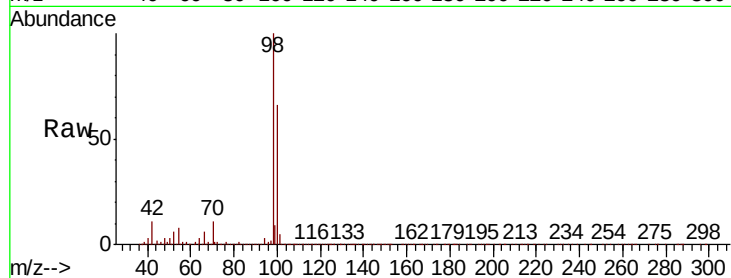
ClientSampleId :

Tot Ion: 98 Resp: 1020360

Ion Ratio Lower Upper

98 100

100 65.9 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 13.609 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014409.D

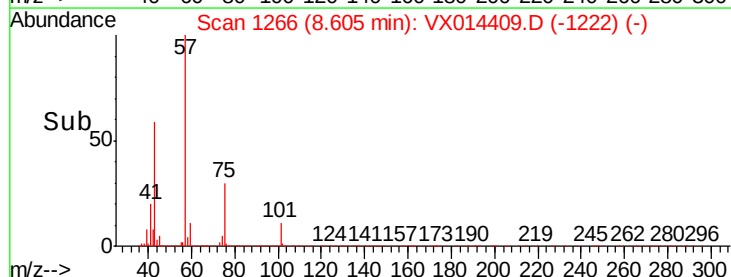
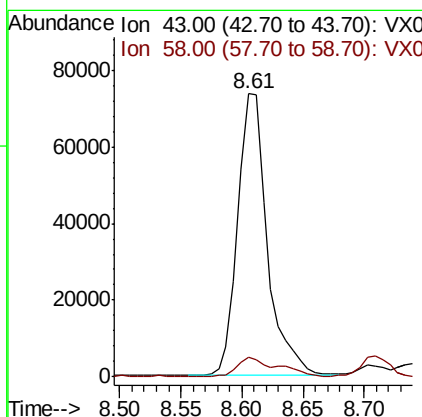
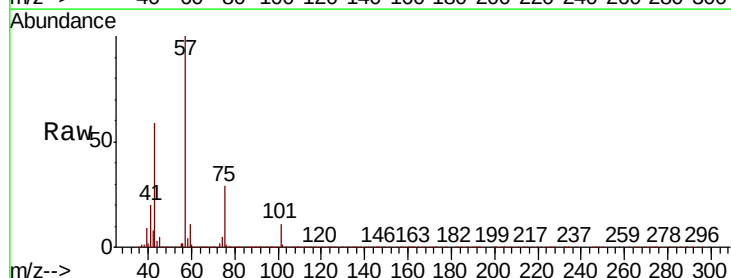
Acq: 03 Jan 2020 18:33

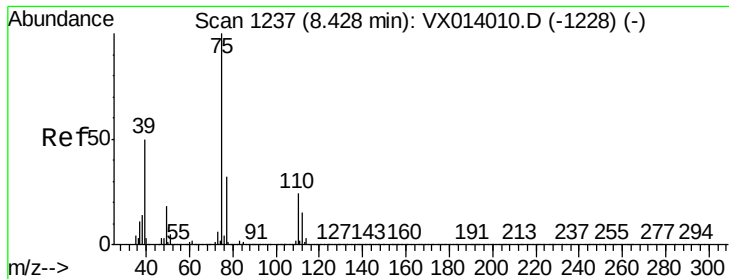
Tgt Ion: 43 Resp: 123388

Ion Ratio Lower Upper

43 100

58 6.0 32.2 48.2#



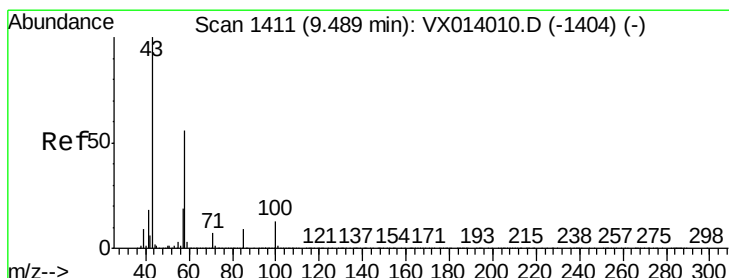
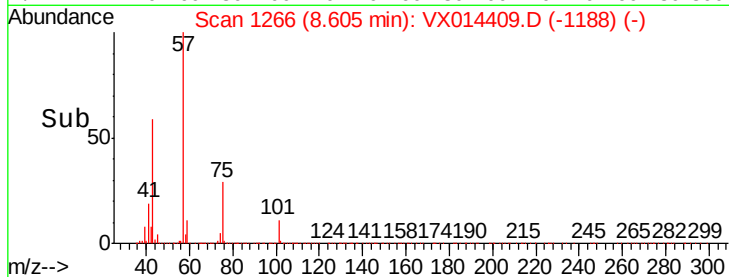
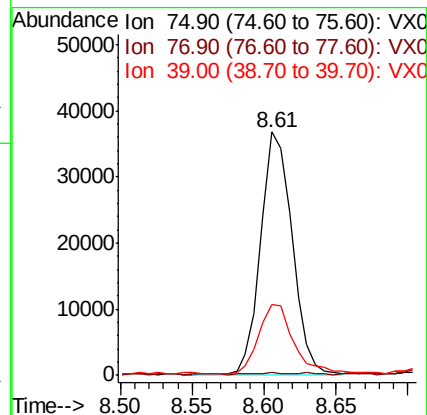
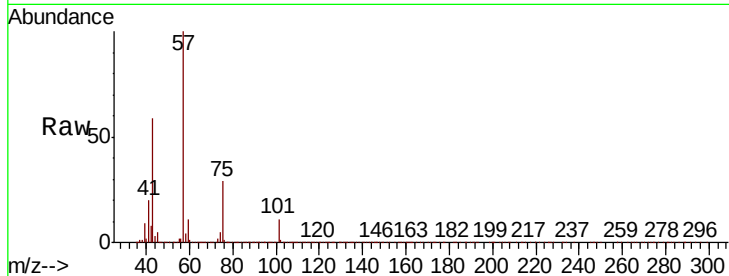


#54

cis-1,3-Dichloropropene
 Concen: 5.845 ug/l
 RT: 8.61 min Scan# 1266
 Delta R.T. 0.18 min
 Lab File: VX014409.D
 Acq: 03 Jan 2020 18:33

Instrument :
 MSVOA_X
 ClientSampleId :

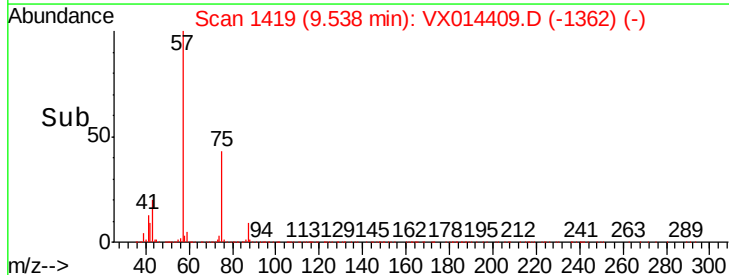
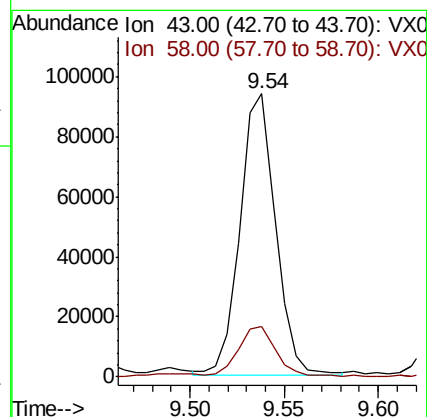
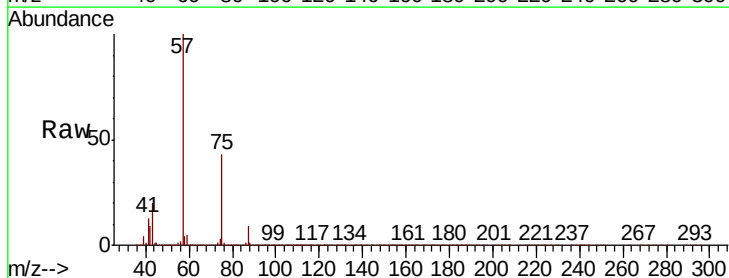
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.6	25.3	37.9#
39	28.3	39.9	59.9#

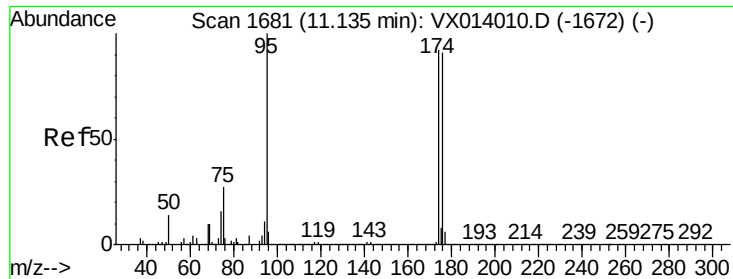


#59

2-Hexanone
 Concen: 16.827 ug/l
 RT: 9.54 min Scan# 1419
 Delta R.T. 0.05 min
 Lab File: VX014409.D
 Acq: 03 Jan 2020 18:33

Tgt Ion	Ratio	Lower	Upper
43	100		
58	18.4	28.0	84.0#





#62

4-Bromofluorobenzene

Concen: 46.985 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampleId :

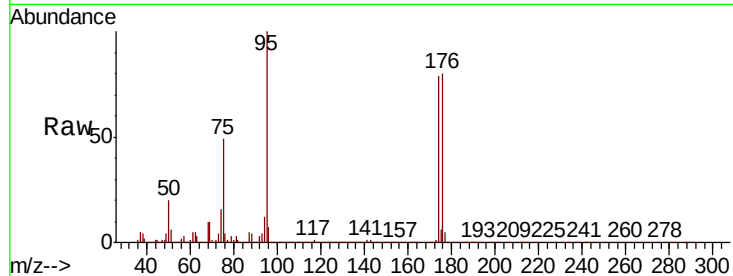
Tot Ion: 95 Resp: 349945

Ion Ratio Lower Upper

95 100

174 89.9 0.0 175.8

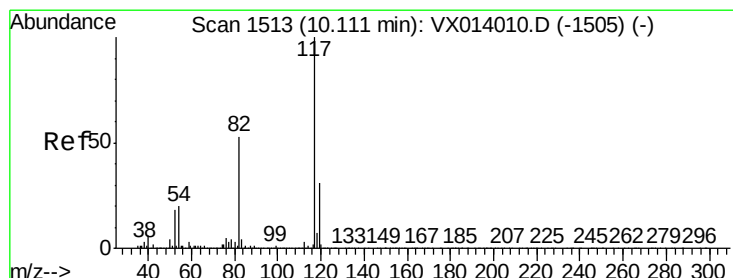
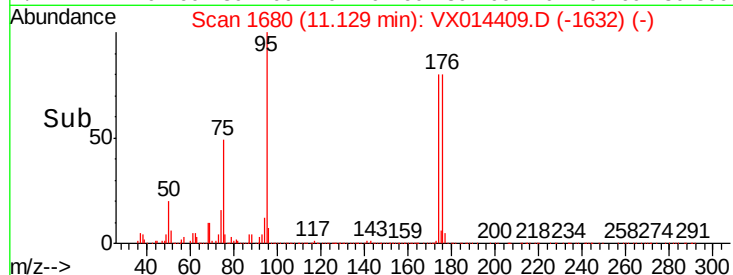
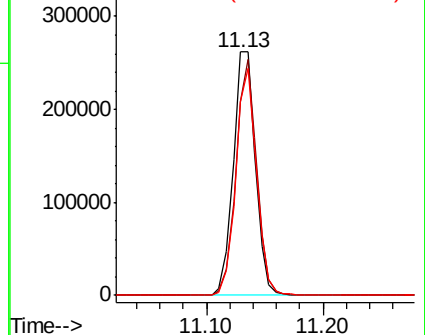
176 86.9 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

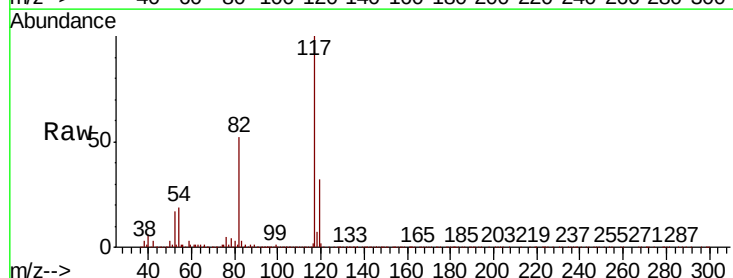
Tgt Ion: 117 Resp: 773829

Ion Ratio Lower Upper

117 100

82 51.5 42.2 63.4

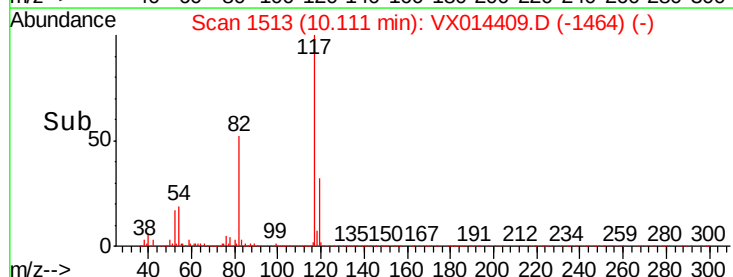
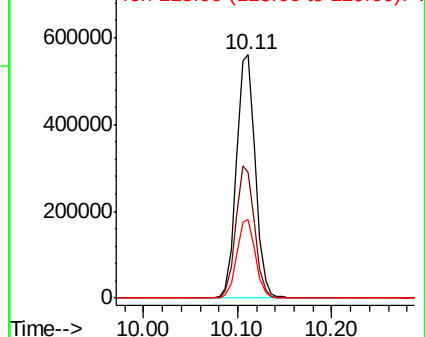
119 32.0 25.1 37.7

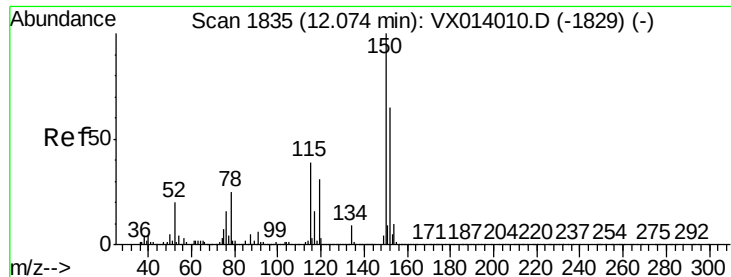


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

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: VX014409.D

Acq: 03 Jan 2020 18:33

Instrument :

MSVOA_X

ClientSampleId :

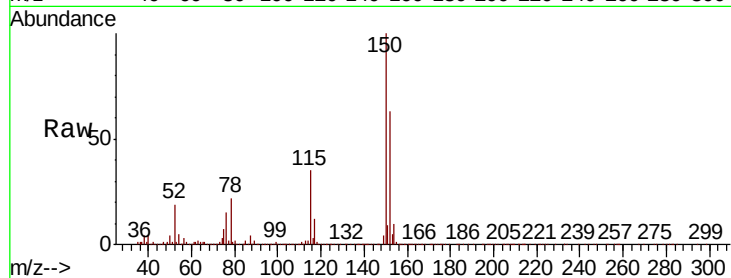
Tot Ion:152 Resp: 346094

Ion Ratio Lower Upper

152 100

115 55.9 38.3 114.9

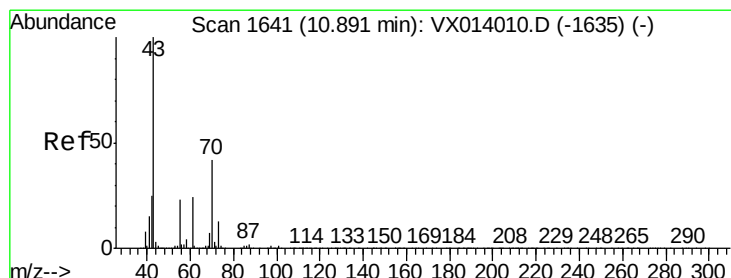
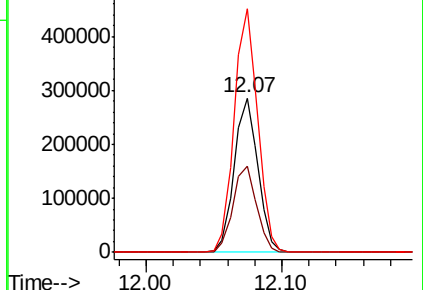
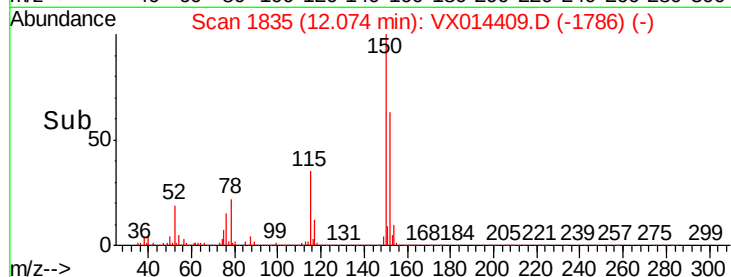
150 156.8 0.0 345.4



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-aryl acetate

Concen: 0.470 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

Tgt Ion: 43 Resp: 5371

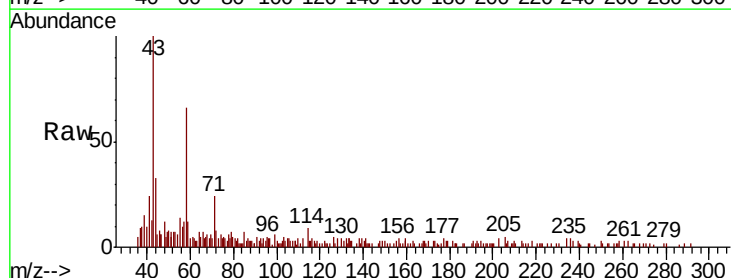
Ion Ratio Lower Upper

43 100

70 6.4 34.4 51.6#

55 10.0 19.1 28.7#

61 0.0 19.7 29.5#

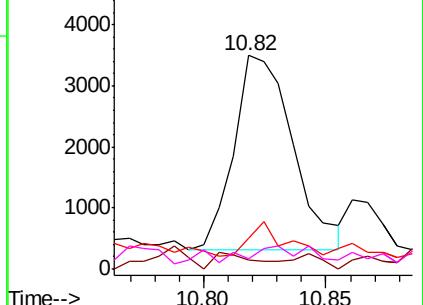
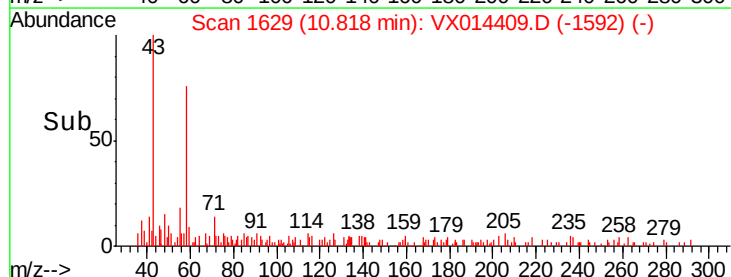


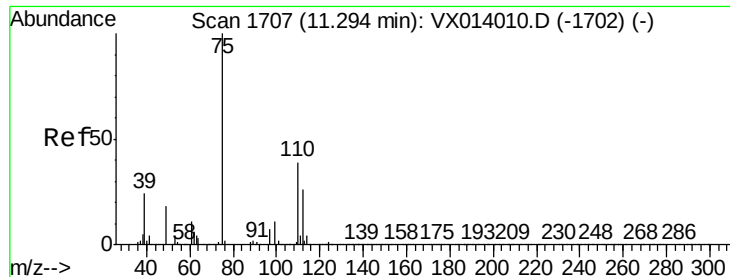
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.232 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

Instrument :

MSVOA_X

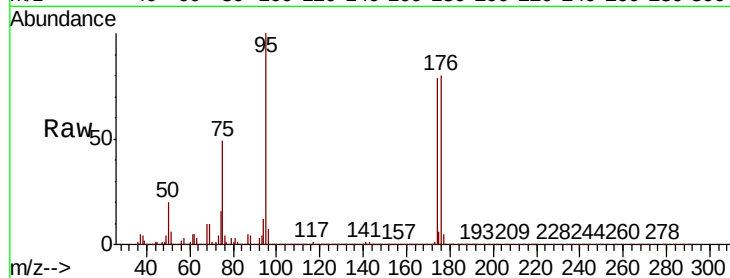
ClientSampled :

Tot Ion: 75 Resp: 167047

Ion Ratio Lower Upper

75 100

77 1.3 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

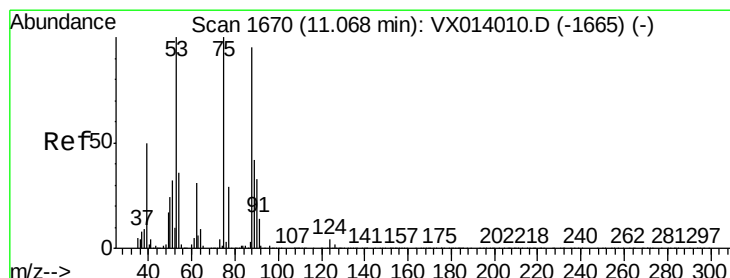
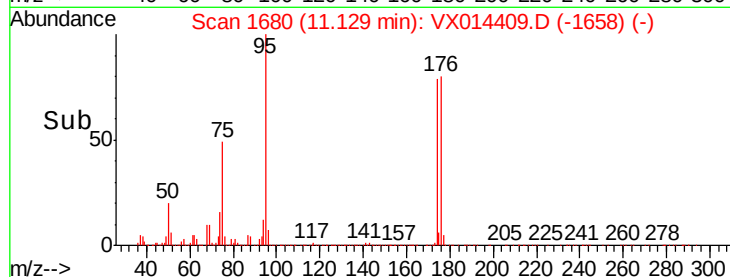
150000

100000

50000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 62.752 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014409.D

Acq: 03 Jan 2020 18:33

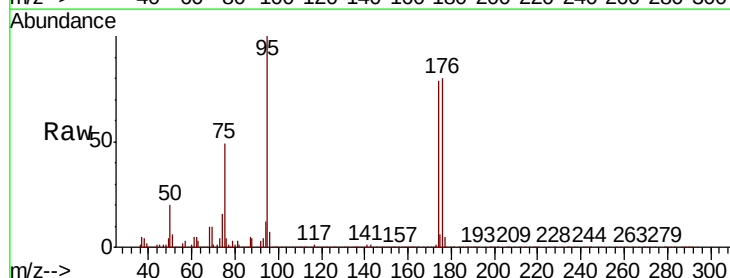
Tgt Ion: 75 Resp: 167047

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.2 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

11.13

150000

100000

50000

0

Time--> 11.05 11.10 11.15 11.20

