

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121619\
 Data File : VX014038.D
 Acq On : 16 Dec 2019 16:24
 Operator : JC/SP
 Sample : K6251-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 17 03:30:11 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	571647	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	877824	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	783428	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	329693	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	323851	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
35) Dibromofluoromethane	5.49	113	261040	48.92	ug/l	0.00
Spiked Amount			Recovery	=	97.84%	
50) Toluene-d8	8.71	98	1036437	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	11.13	95	341476	44.97	ug/l	0.00
Spiked Amount			Recovery	=	89.94%	

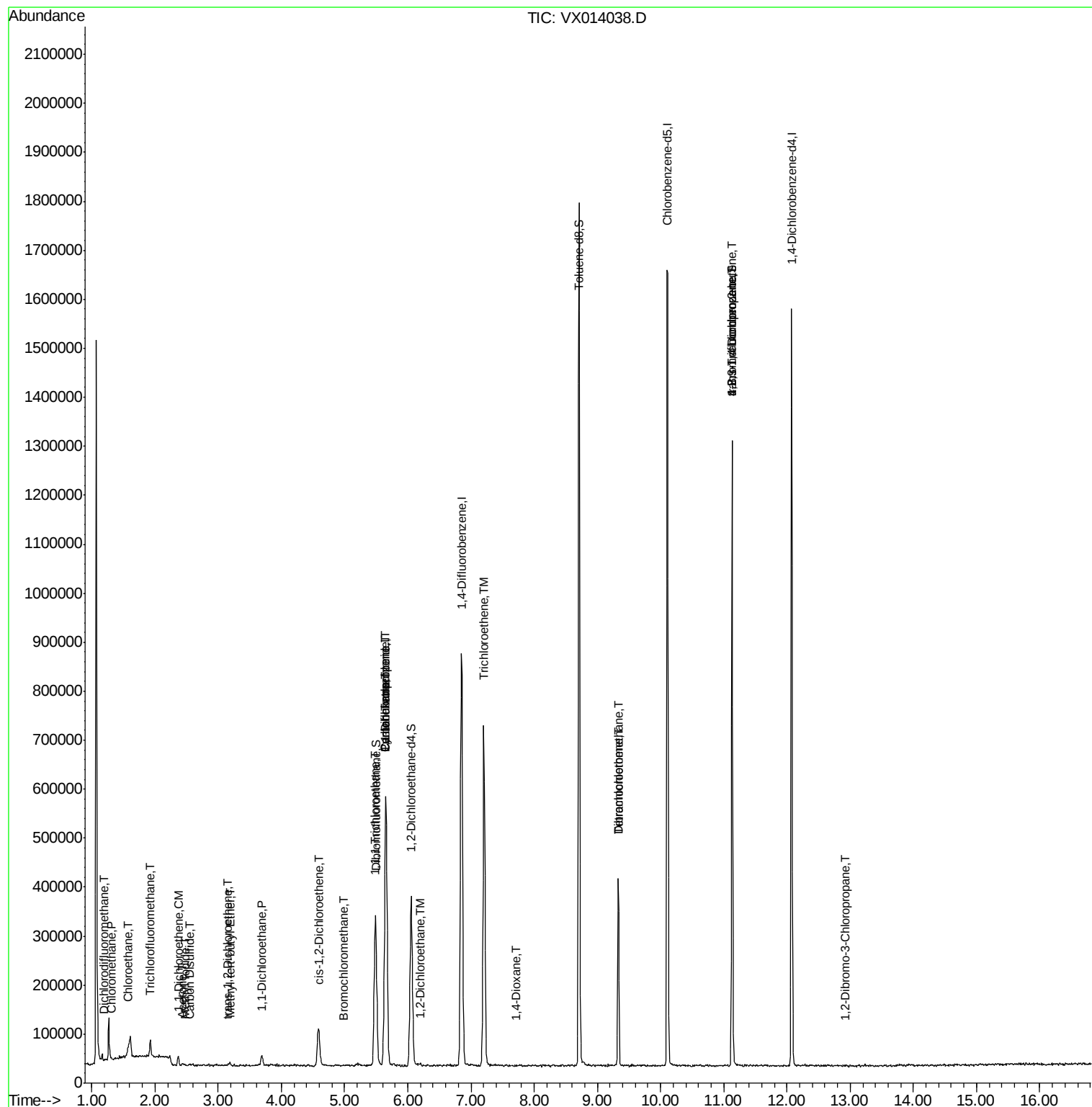
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1740	0.340	ug/l	92
3) Chloromethane	1.32	50	2059	0.300	ug/l #	86
6) Chloroethane	1.57	64	13036	2.917	ug/l #	45
7) Trichlorofluoromethane	1.92	101	21223	2.367	ug/l	97
10) Methyl Iodide	2.47	142	59	2.629	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	6910	1.257	ug/l	89
16) Acetone	2.44	43	4108	0.977	ug/l	99
17) Carbon Disulfide	2.56	76	1338	0.837	ug/l #	83
19) Methyl tert-butyl Ether	3.19	73	6701	0.371	ug/l #	86
21) trans-1,2-Dichloroethene	3.15	96	1450	0.239	ug/l #	28
24) 1,1-Dichloroethane	3.69	63	24806	2.279	ug/l	97
27) cis-1,2-Dichloroethene	4.59	96	50739	7.406	ug/l	91
28) Bromochloromethane	4.99	49	342	0.535	ug/l #	77
31) Cyclohexane	5.65	56	10557	1.090	ug/l #	1
32) 1,1,1-Trichloroethane	5.48	97	3980	0.453	ug/l #	40
36) 1,1-Dichloropropene	5.65	75	38527	4.783	ug/l #	50
38) Carbon Tetrachloride	5.65	117	50411	6.870	ug/l #	17
42) 1,2-Dichloroethane	6.19	62	5176	0.616	ug/l	99
44) Trichloroethene	7.21	130	282627	41.288	ug/l	99
49) 1,4-Dioxane	7.72	88	76	0.518	ug/l #	1
60) Dibromochloromethane	9.33	129	69541	11.143	ug/l #	12
64) Tetrachloroethene	9.33	164	78388	11.308	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	166178	23.217	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	166178	65.531	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.92	75	384	0.216	ug/l	62

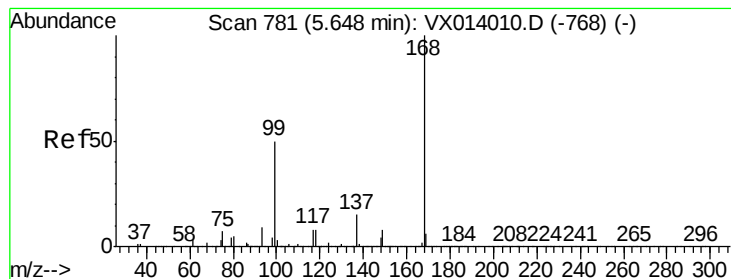
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
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# 781

Delta R.T. 0.00 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

Instrument :

MSVOA_X

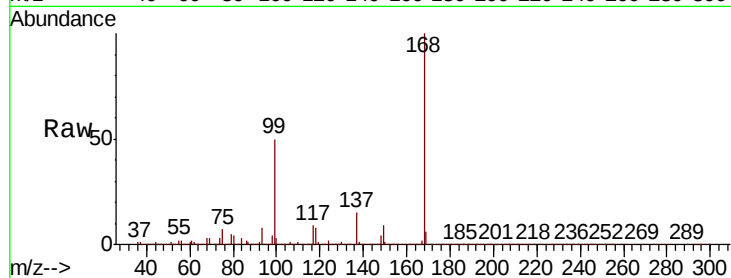
ClientSampleId :

Tot Ion:168 Resp: 571647

Ion Ratio Lower Upper

168 100

99 50.1 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

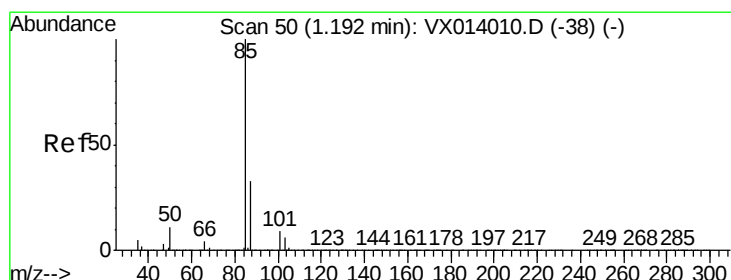
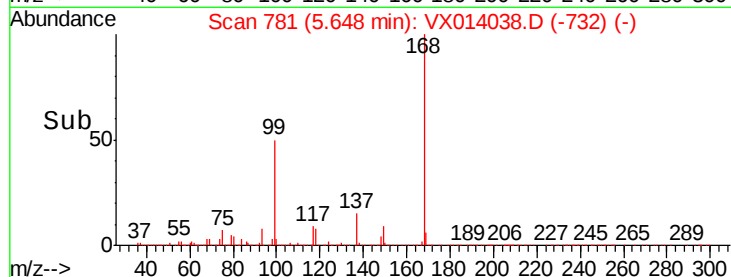
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.340 ug/l

RT: 1.19 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX014038.D

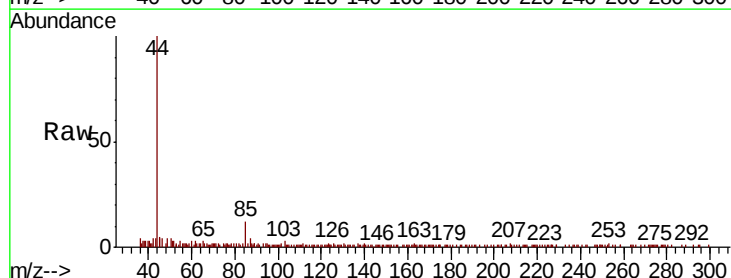
Acq: 16 Dec 2019 16:24

Tgt Ion: 85 Resp: 1740

Ion Ratio Lower Upper

85 100

87 37.4 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

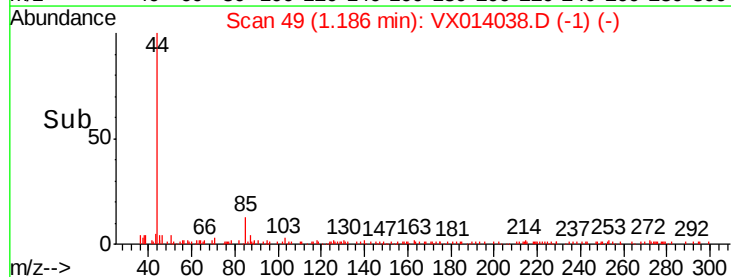
1500

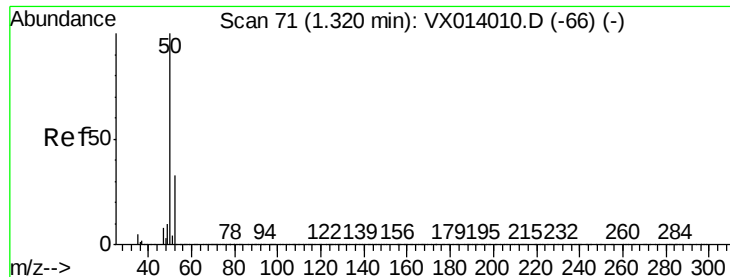
1000

500

0

Time-->





#3

Chloromethane

Concen: 0.300 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

Instrument :

MSVOA_X

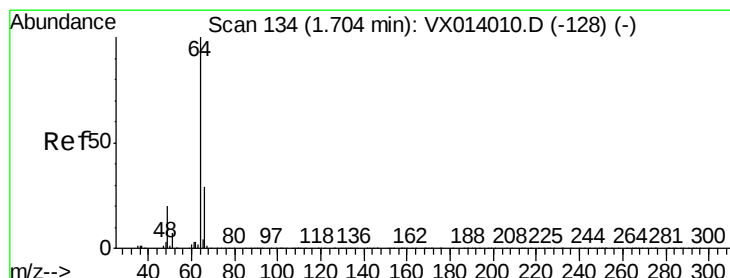
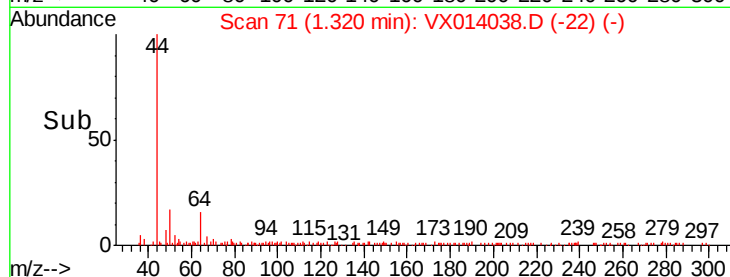
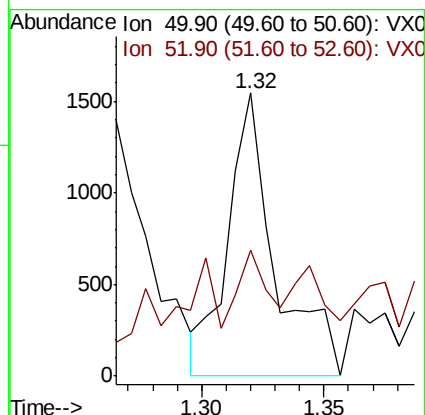
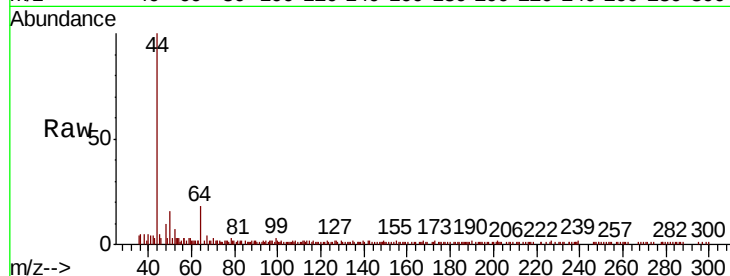
ClientSampleId :

Tot Ion: 50 Resp: 2059

Ion Ratio Lower Upper

50 100

52 24.9 26.2 39.4#



#6

Chloroethane

Concen: 2.917 ug/l

RT: 1.57 min Scan# 112

Delta R.T. -0.13 min

Lab File: VX014038.D

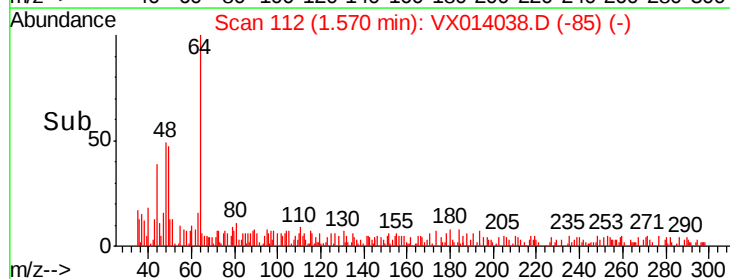
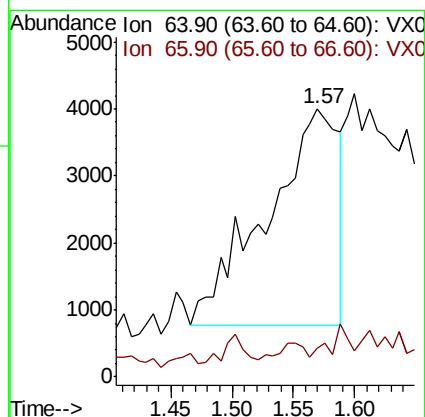
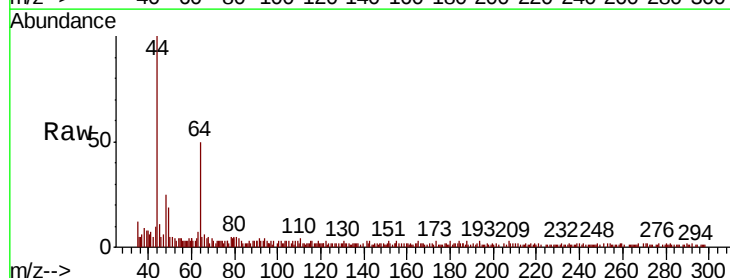
Acq: 16 Dec 2019 16:24

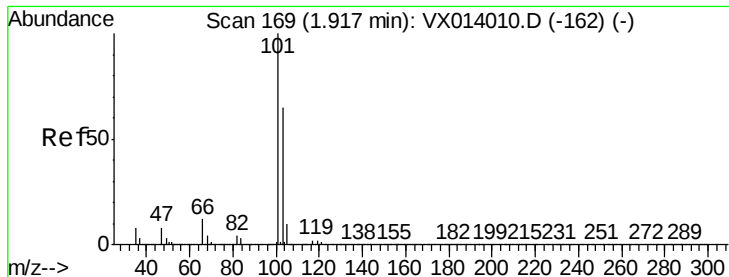
Tgt Ion: 64 Resp: 13036

Ion Ratio Lower Upper

64 100

66 0.0 23.4 35.2#



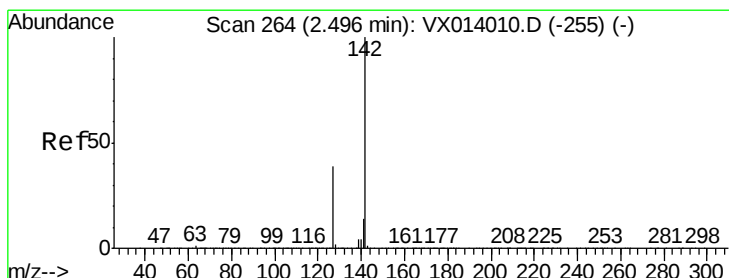
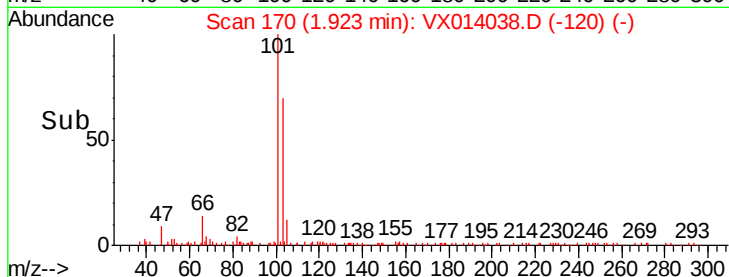
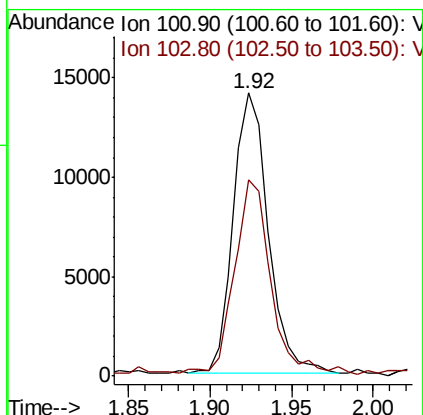
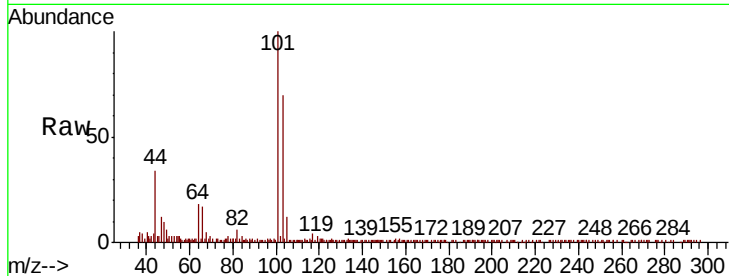


#7

Trichlorofluoromethane
 Concen: 2.367 ug/l
 RT: 1.92 min Scan# 170
 Delta R.T. 0.01 min
 Lab File: VX014038.D
 Acq: 16 Dec 2019 16:24

Instrument :
 MSVOA_X
 ClientSampleId :

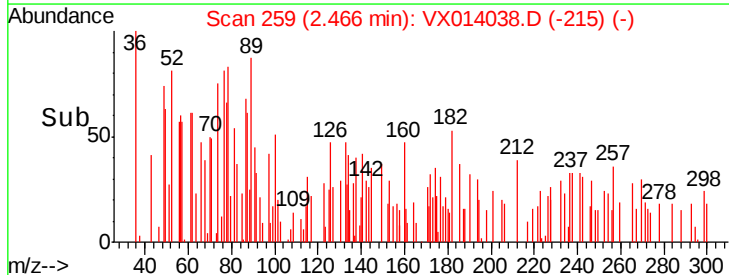
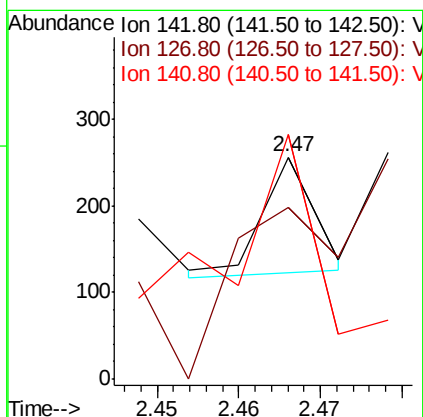
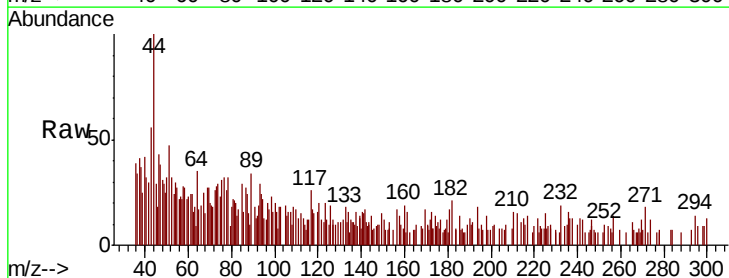
Tot Ion:101 Resp: 21223
 Ion Ratio Lower Upper
 101 100
 103 67.5 52.2 78.4

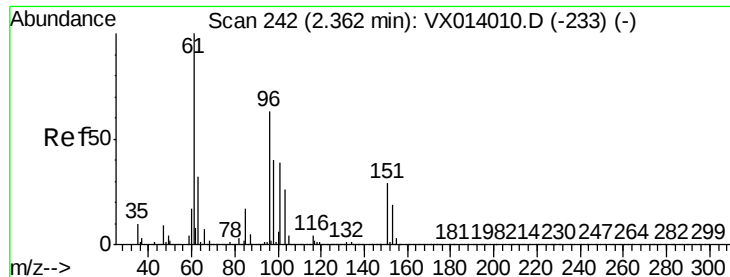


#10

Methyl Iodide
 Concen: 2.629 ug/l
 RT: 2.47 min Scan# 259
 Delta R.T. -0.03 min
 Lab File: VX014038.D
 Acq: 16 Dec 2019 16:24

Tgt Ion:142 Resp: 59
 Ion Ratio Lower Upper
 142 100
 127 0.0 31.6 47.4#
 141 306.8 11.6 17.4#





#12

1,1-Dichloroethene

Concen: 1.257 ug/l

RT: 2.37 min Scan# 243

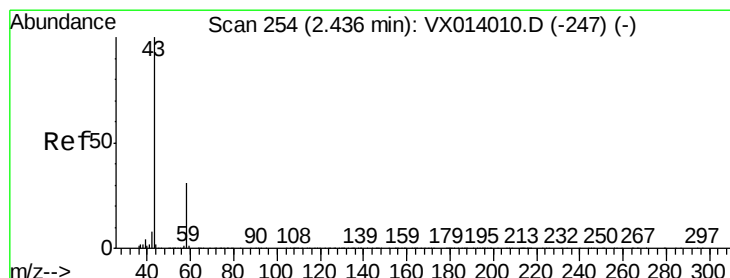
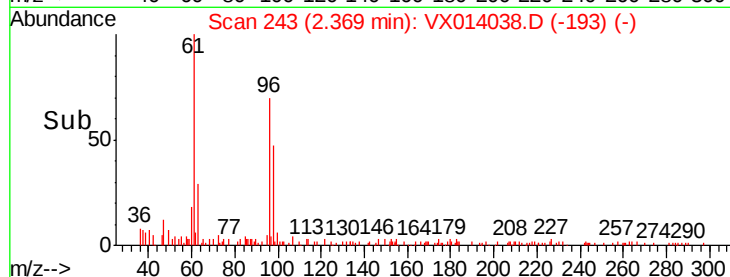
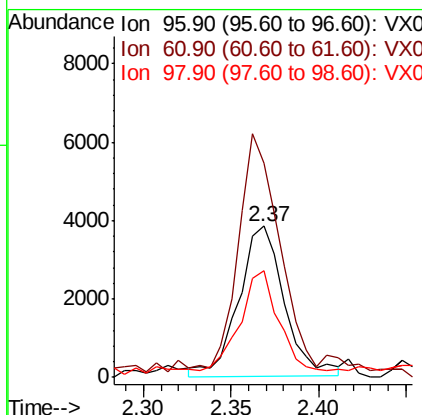
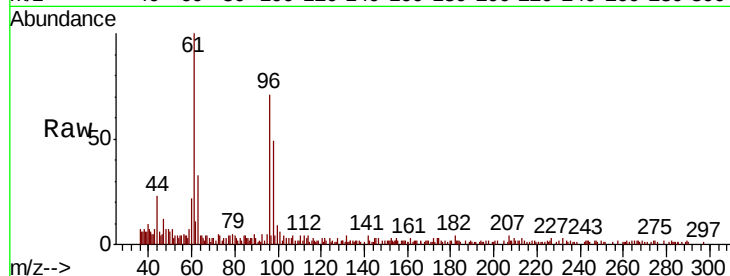
Delta R.T. 0.01 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	96	Resp:	6910
Ion	Ratio	Lower	Upper
96	100		
61	143.7	127.9	191.9
98	68.7	50.5	75.7



#16

Acetone

Concen: 0.977 ug/l

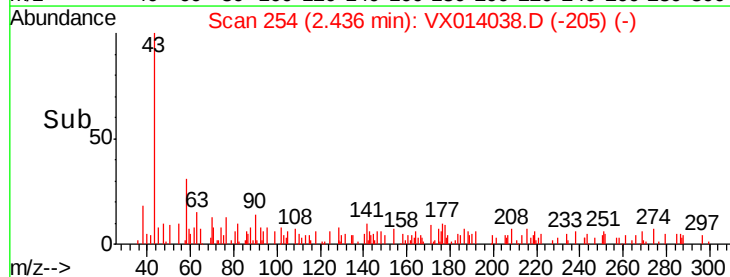
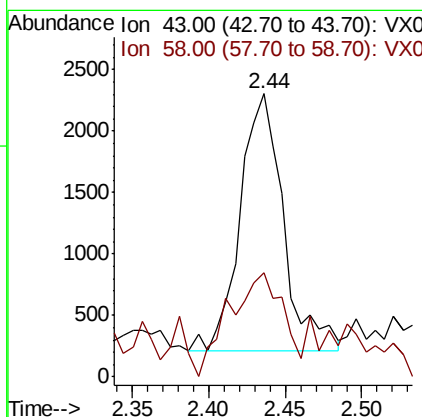
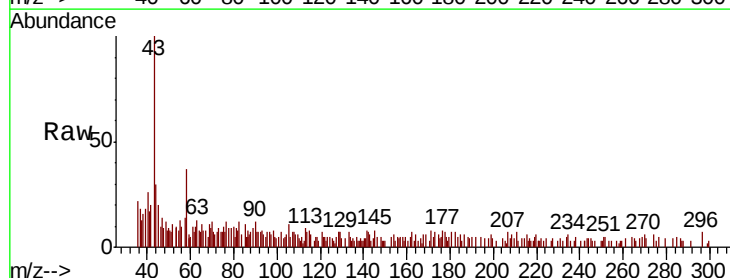
RT: 2.44 min Scan# 254

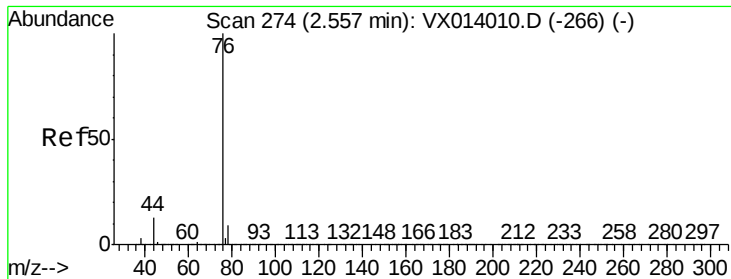
Delta R.T. 0.00 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

Tgt Ion:	43	Resp:	4108
Ion	Ratio	Lower	Upper
43	100		
58	31.5	24.9	37.3





#17

Carbon Disulfide

Concen: 0.837 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

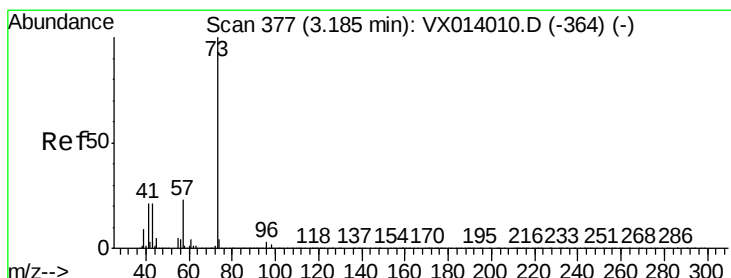
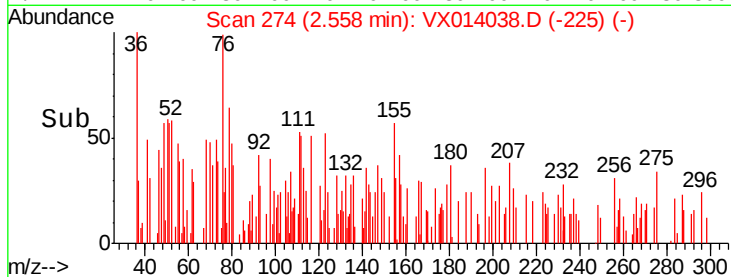
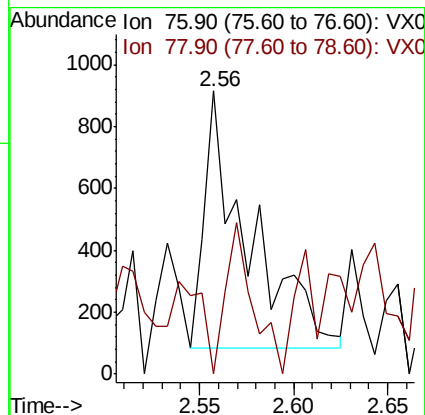
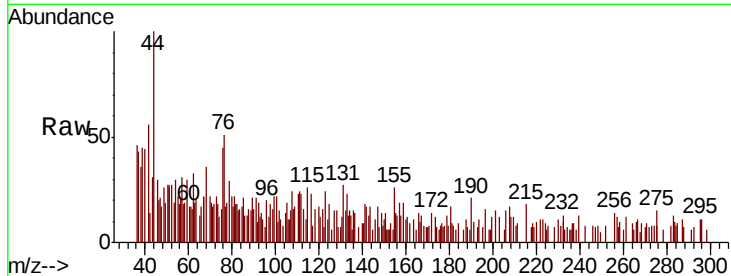
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 76 Resp: 1338

Ion Ratio Lower Upper

76 100

78 2.8 7.2 10.8#



#19

Methyl tert-butyl Ether

Concen: 0.371 ug/l

RT: 3.19 min Scan# 377

Delta R.T. 0.00 min

Lab File: VX014038.D

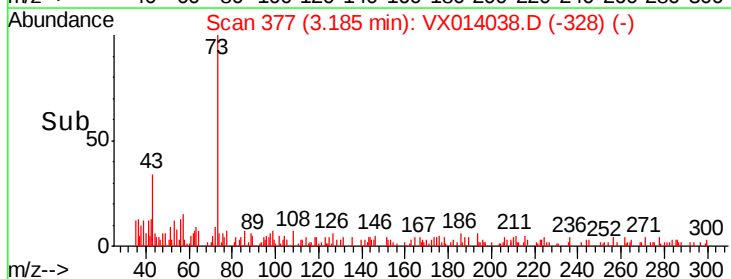
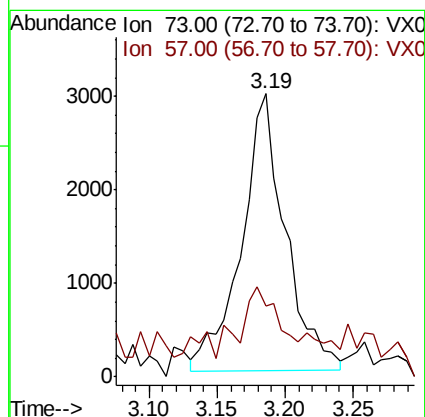
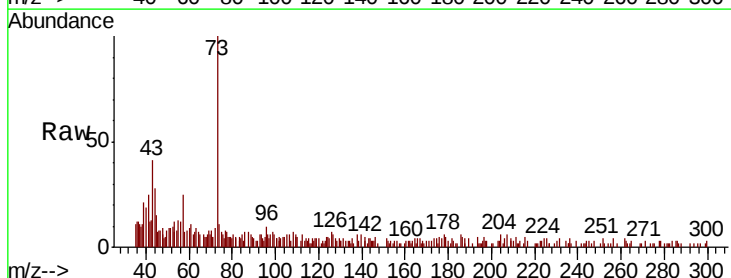
Acq: 16 Dec 2019 16:24

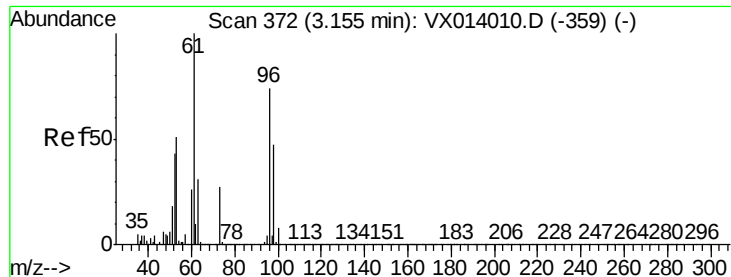
Tgt Ion: 73 Resp: 6701

Ion Ratio Lower Upper

73 100

57 16.5 18.8 28.2#





#21

trans-1,2-Dichloroethene

Concen: 0.239 ug/l

RT: 3.15 min Scan# 371

Delta R.T. -0.01 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

Instrument :
MSVOA_X
ClientSampleId :

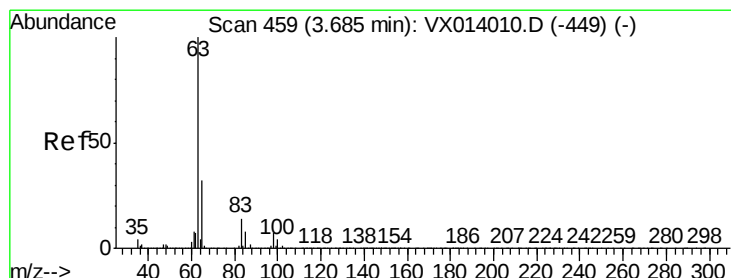
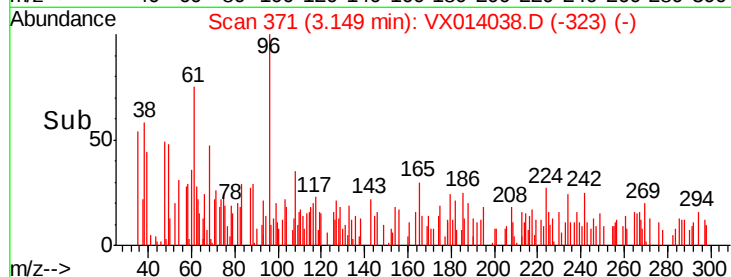
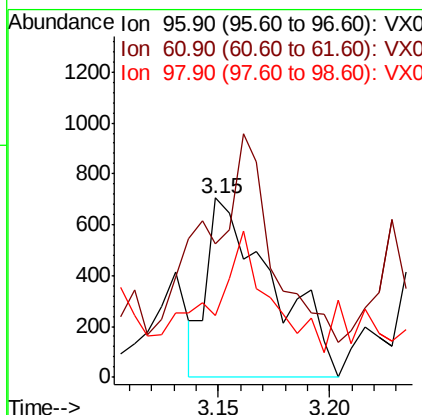
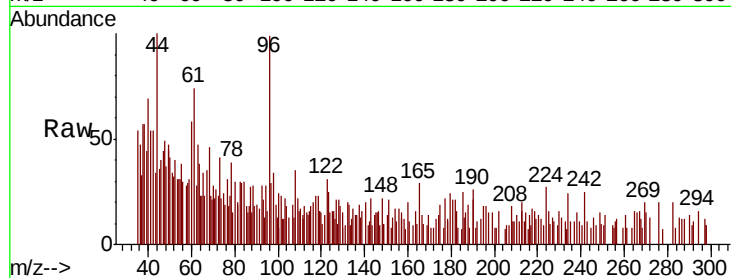
Tot Ion: 96 Resp: 1450

Ion Ratio Lower Upper

96 100

61 55.5 108.3 162.5#

98 0.0 50.8 76.2#



#24

1,1-Dichloroethane

Concen: 2.279 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

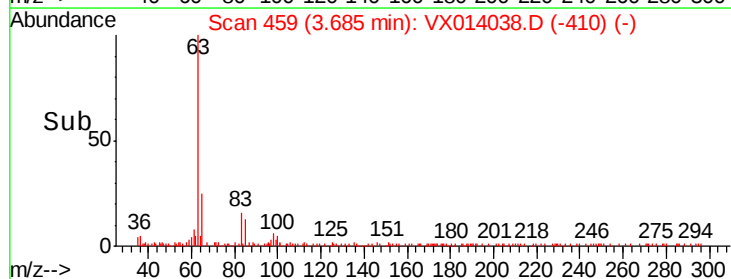
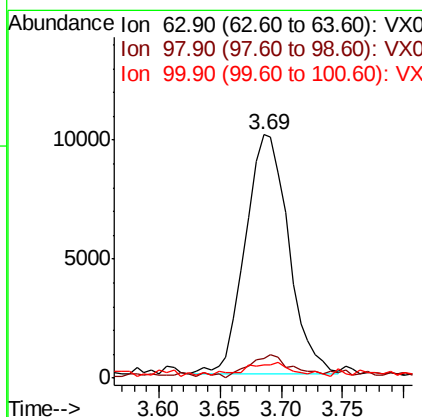
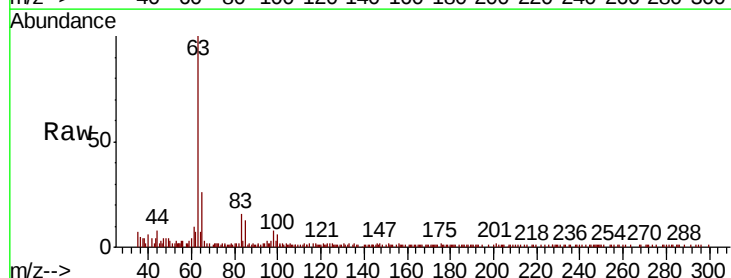
Tgt Ion: 63 Resp: 24806

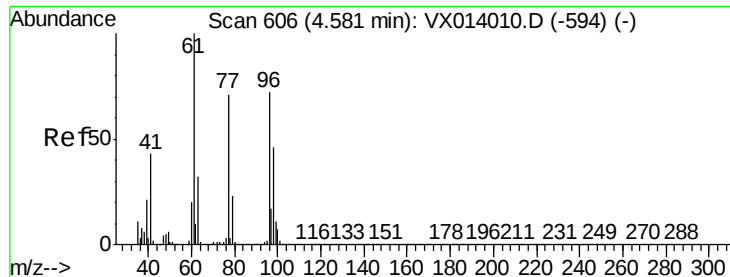
Ion Ratio Lower Upper

63 100

98 6.0 3.6 10.8

100 3.3 2.3 6.8



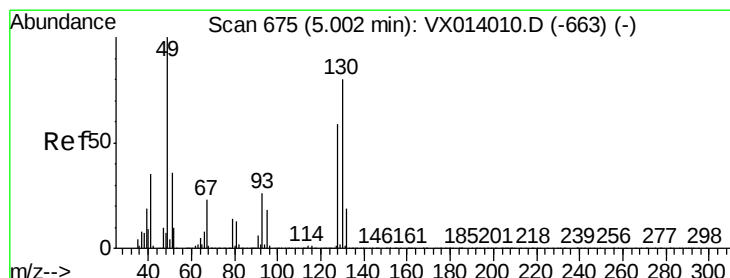
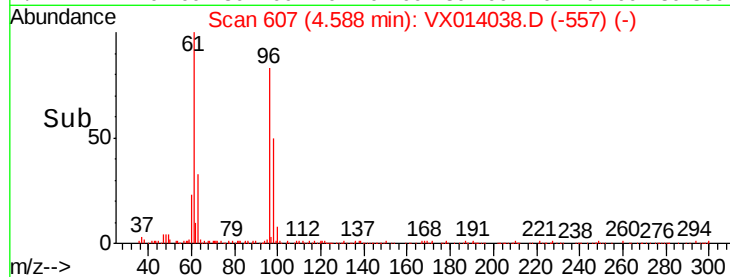
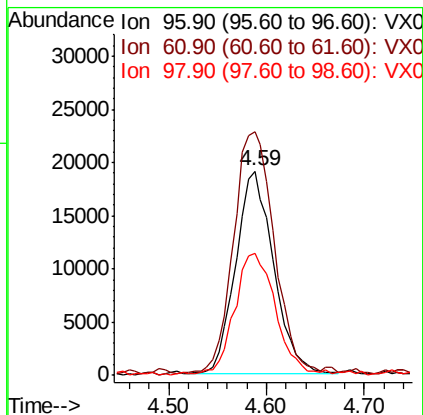
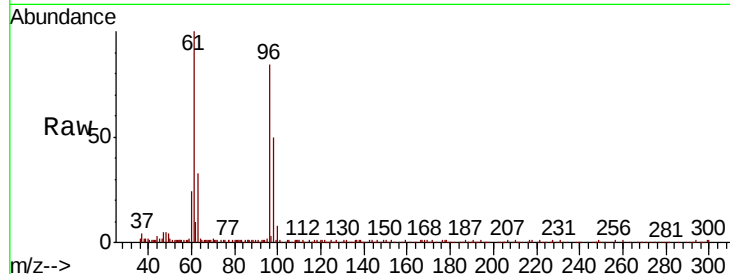


#27

cis-1,2-Dichloroethene
Concen: 7.406 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX014038.D
Acq: 16 Dec 2019 16:24

Instrument :
MSVOA_X
ClientSampleId :

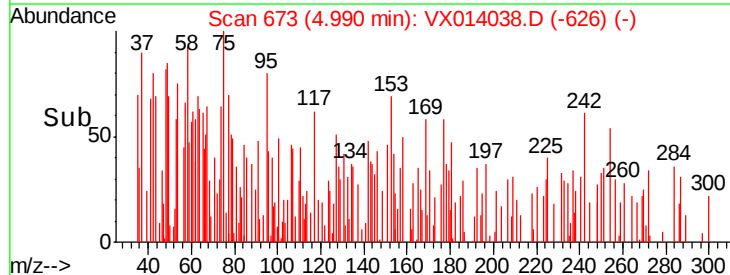
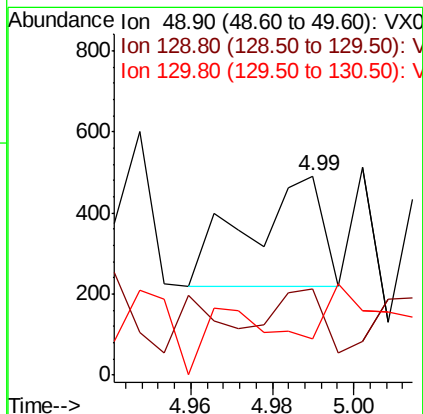
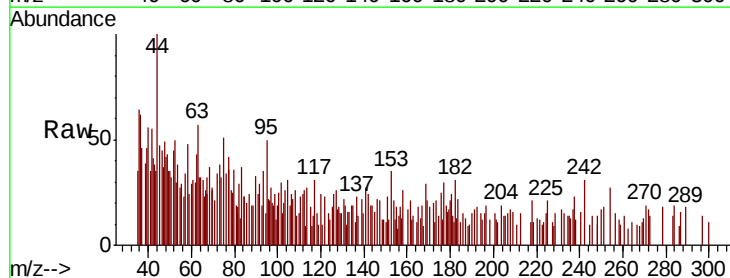
Tot Ion	Ratio	Lower	Upper
96	100		
61	127.6	0.0	288.4
98	65.0	0.0	129.6

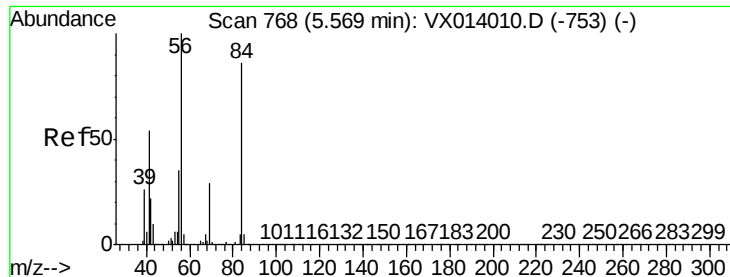


#28

Bromochloromethane
Concen: 0.535 ug/l
RT: 4.99 min Scan# 673
Delta R.T. -0.01 min
Lab File: VX014038.D
Acq: 16 Dec 2019 16:24

Tgt Ion	Ratio	Lower	Upper
49	100		
129	63.7	0.0	5.0#
130	64.6	64.6	97.0#

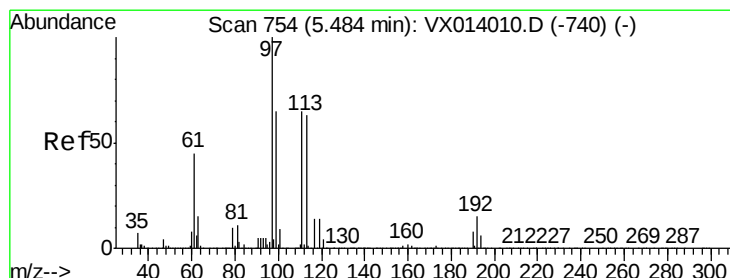
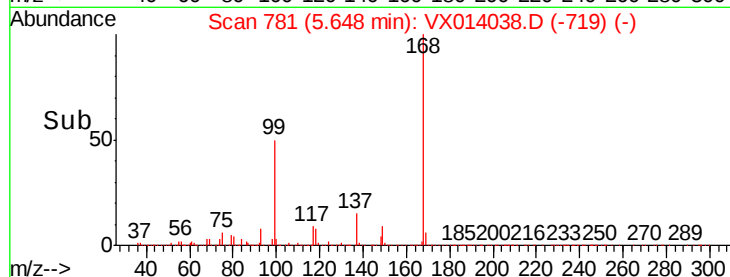
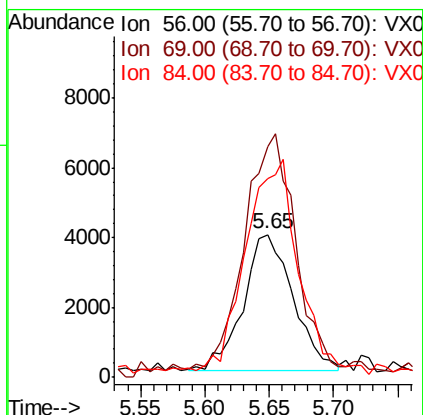
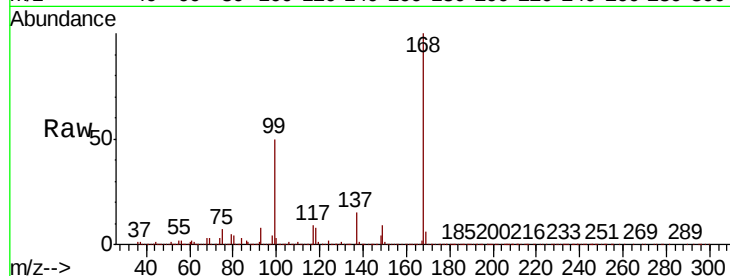




#31
Cyclohexane
Concen: 1.090 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX014038.D
Acq: 16 Dec 2019 16:24

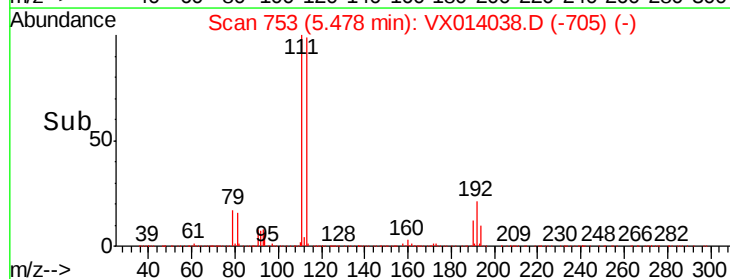
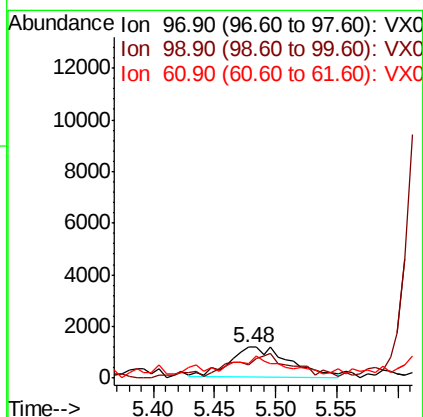
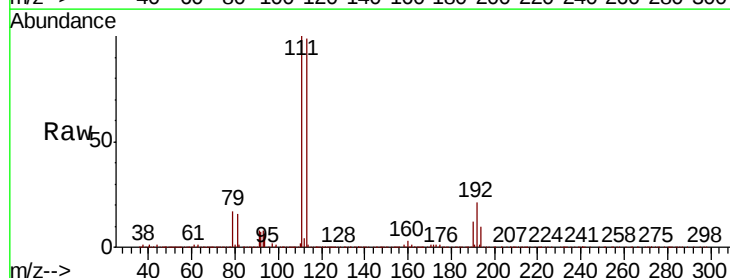
Instrument :
MSVOA_X
ClientSampleId :

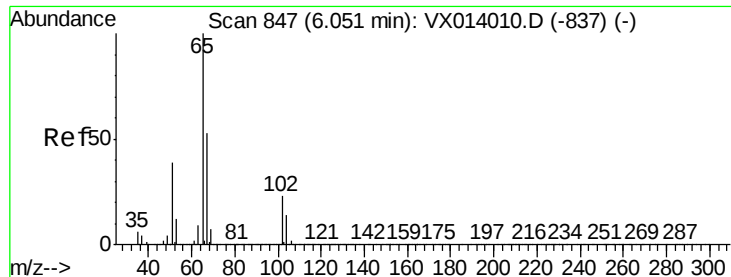
Tot Ion: 56 Resp: 10557
Ion Ratio Lower Upper
56 100
69 165.1 23.2 34.8#
84 140.3 69.2 103.8#



#32
1,1,1-Trichloroethane
Concen: 0.453 ug/l
RT: 5.48 min Scan# 753
Delta R.T. -0.01 min
Lab File: VX014038.D
Acq: 16 Dec 2019 16:24

Tgt Ion: 97 Resp: 3980
Ion Ratio Lower Upper
97 100
99 0.0 52.0 78.0#
61 26.6 36.7 55.1#





#33

1,2-Dichloroethane-d4

Concen: 49.986 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

Instrument :

MSVOA_X

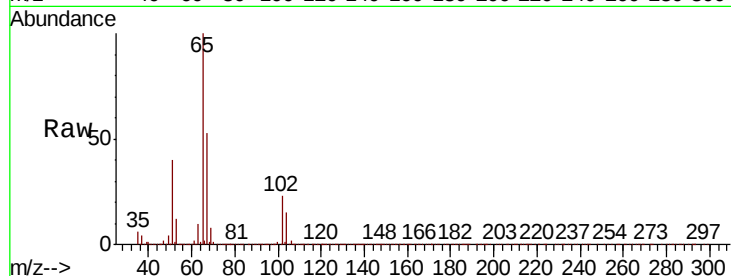
ClientSampled :

Tot Ion: 65 Resp: 323851

Ion Ratio Lower Upper

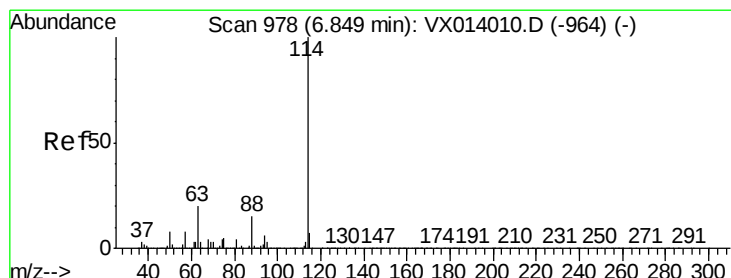
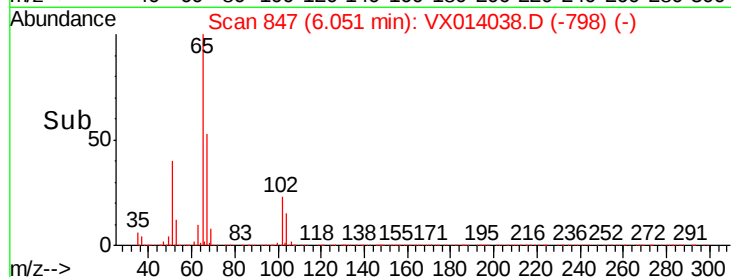
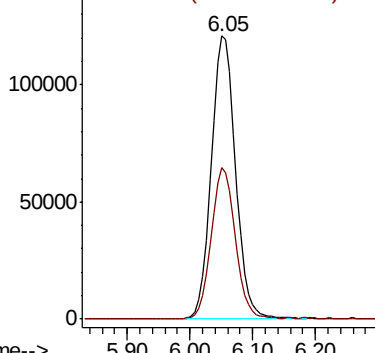
65 100

67 52.7 0.0 106.4



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: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

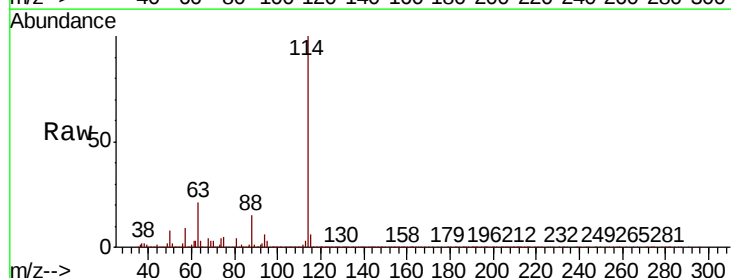
Tgt Ion: 114 Resp: 877824

Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.8

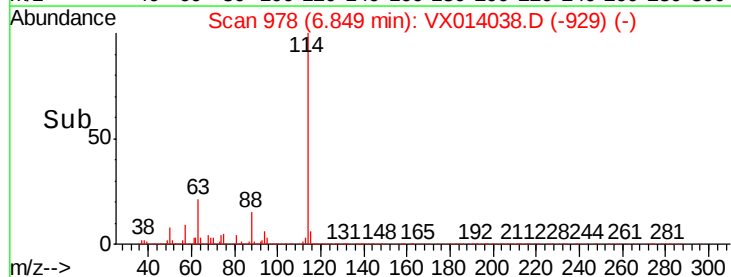
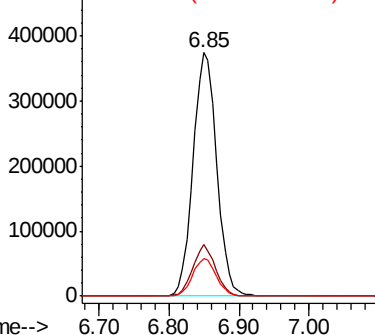
88 15.3 0.0 30.4

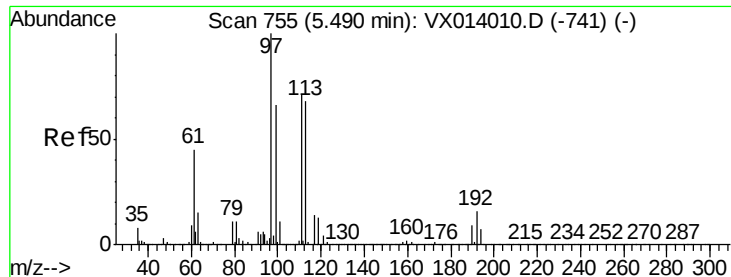


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

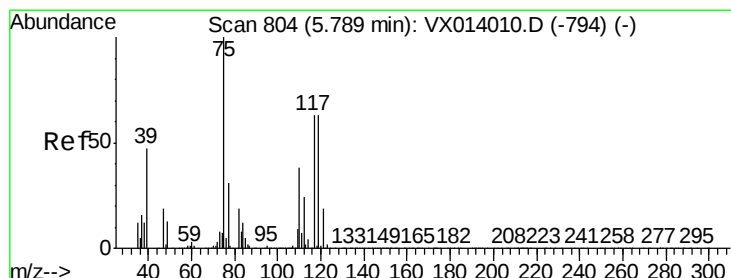
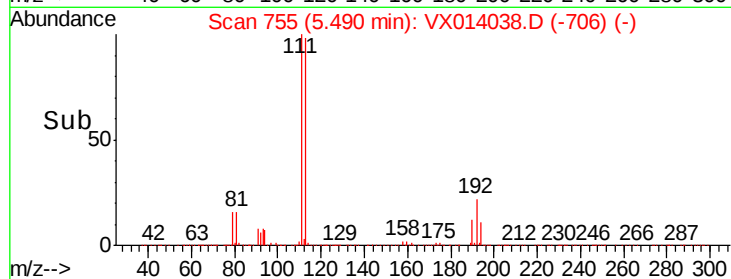
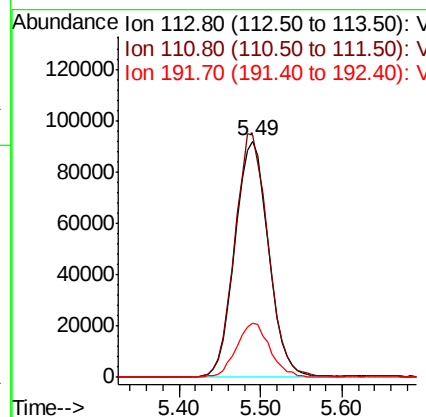
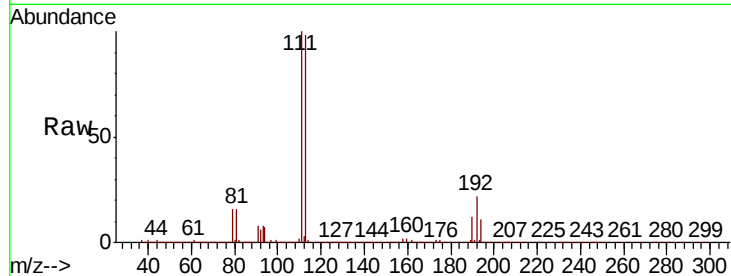




#35
Dibromofluoromethane
Concen: 48.919 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX014038.D
Acq: 16 Dec 2019 16:24

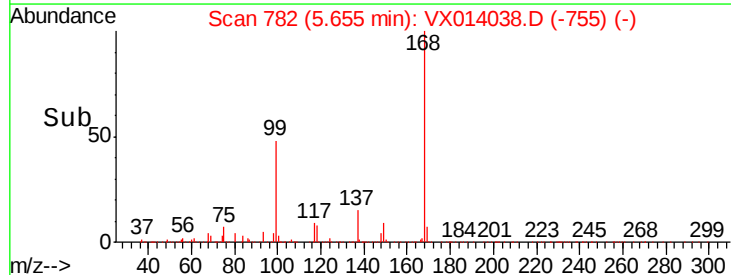
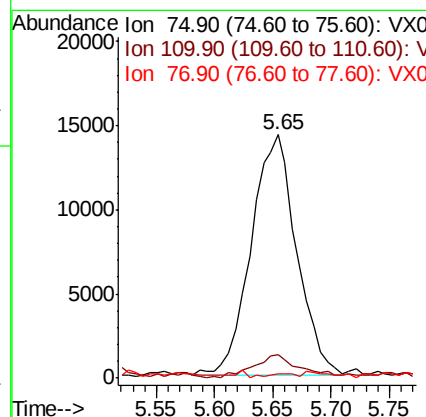
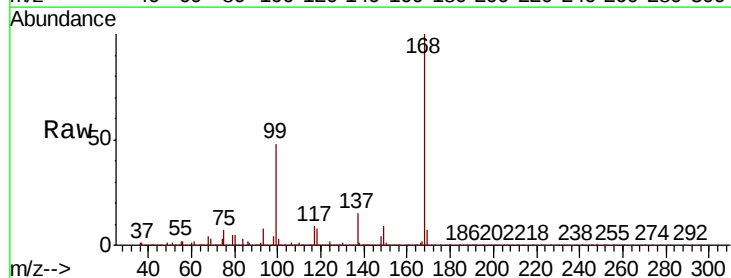
Instrument :
MSVOA_X
ClientSampleId :

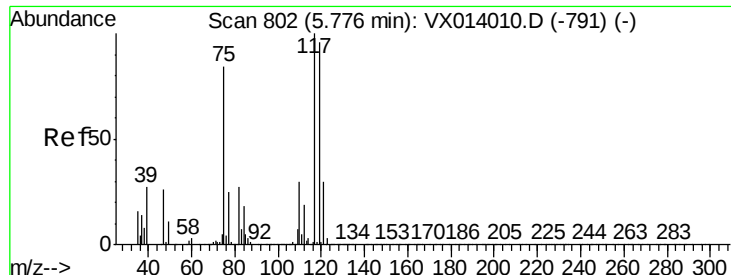
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.0	123.0
192	23.0	19.3	28.9



#36
1,1-Dichloropropene
Concen: 4.783 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.13 min
Lab File: VX014038.D
Acq: 16 Dec 2019 16:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.1	18.3	54.9#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.870 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

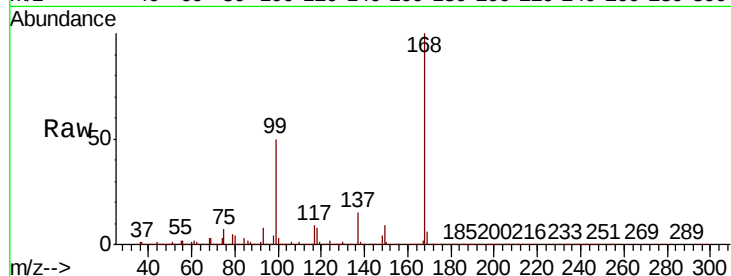
Tot Ion:117 Resp: 50411

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.4#

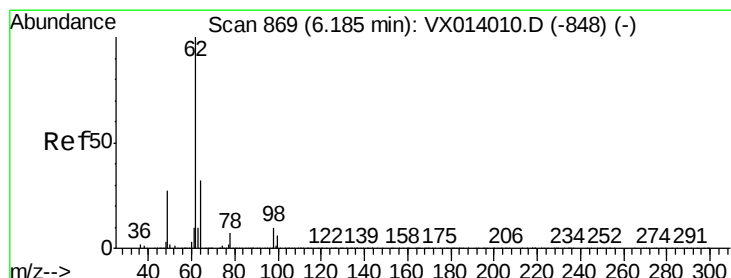
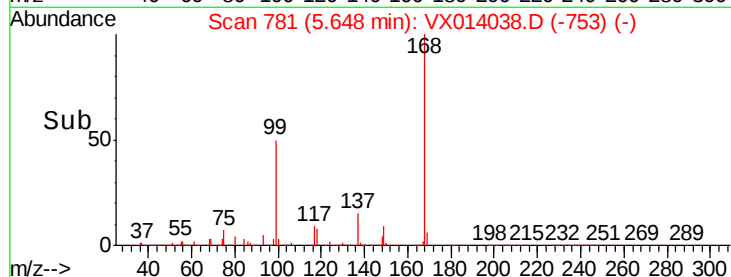
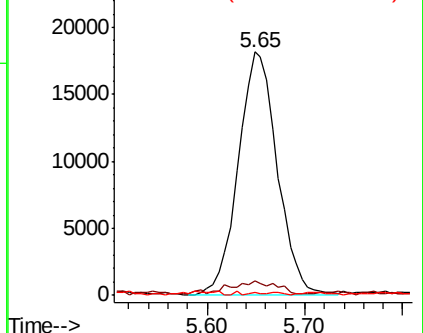
121 0.5 23.6 35.4#



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



#42

1,2-Dichloroethane

Concen: 0.616 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX014038.D

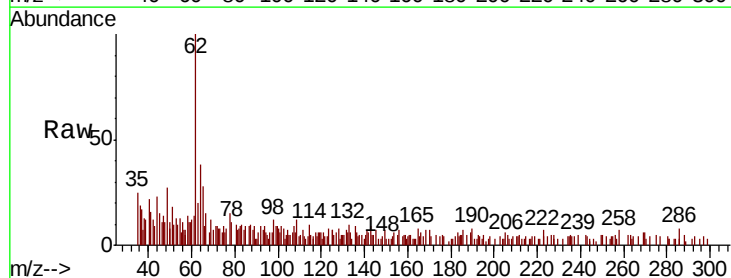
Acq: 16 Dec 2019 16:24

Tgt Ion: 62 Resp: 5176

Ion Ratio Lower Upper

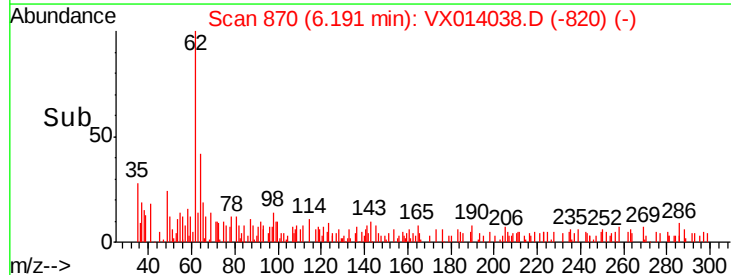
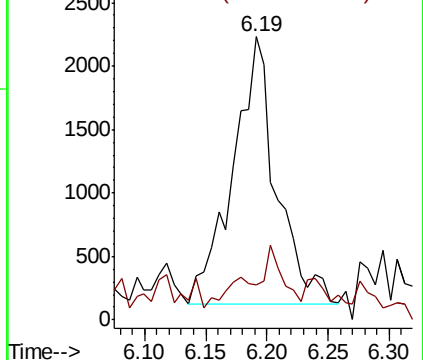
62 100

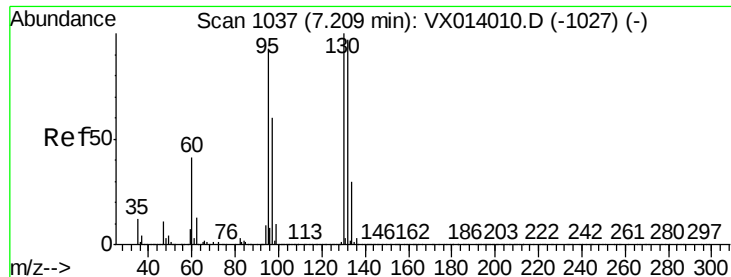
98 11.0 0.0 21.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 41.288 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

Instrument :

MSVOA_X

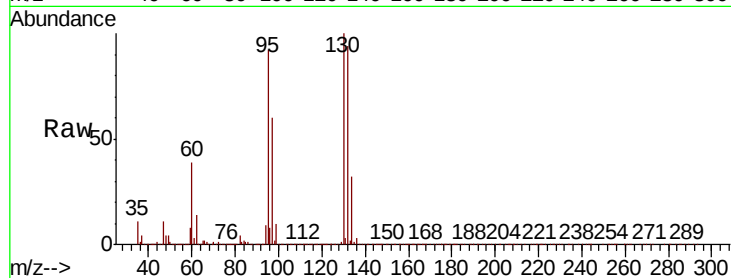
ClientSampleId :

Tot Ion:130 Resp: 282627

Ion Ratio Lower Upper

130 100

95 91.9 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

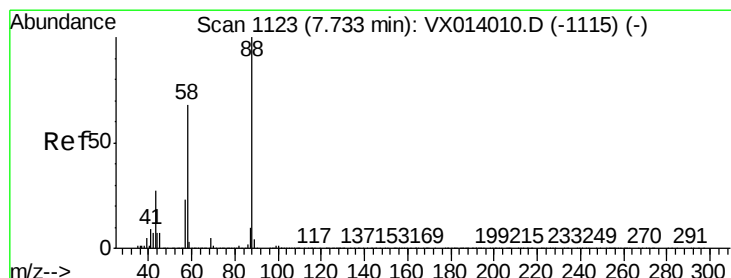
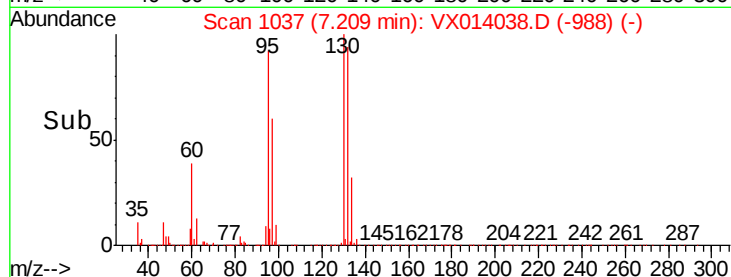
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 0.518 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

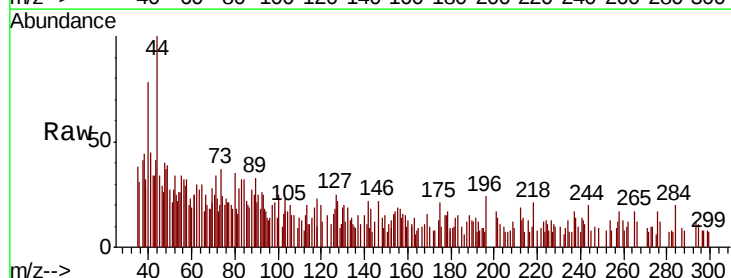
Tgt Ion: 88 Resp: 76

Ion Ratio Lower Upper

88 100

43 534.2 26.5 39.7#

58 447.4 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

800

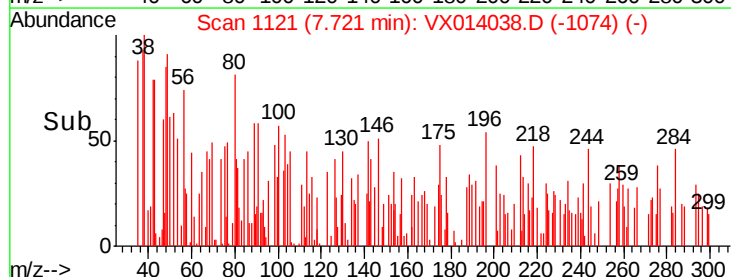
600

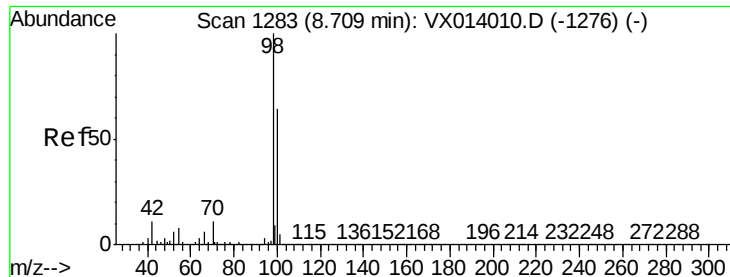
400

200

0

Time-->





#50

Toluene-d8

Concen: 49.888 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

Instrument :

MSVOA_X

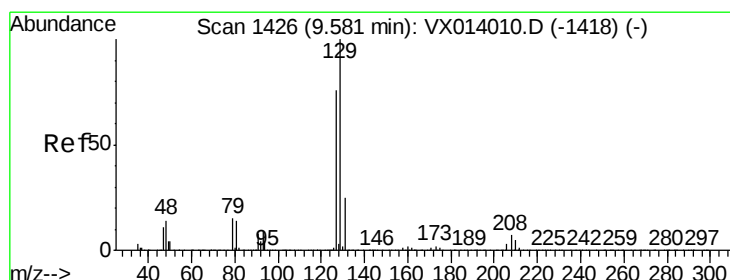
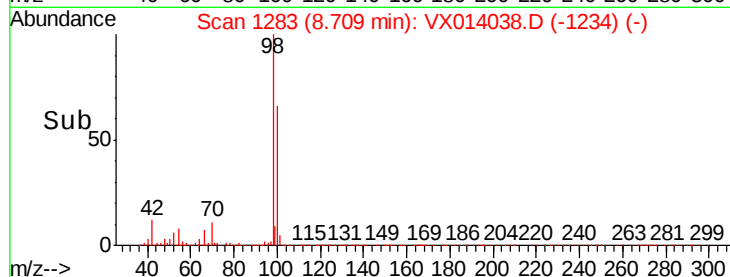
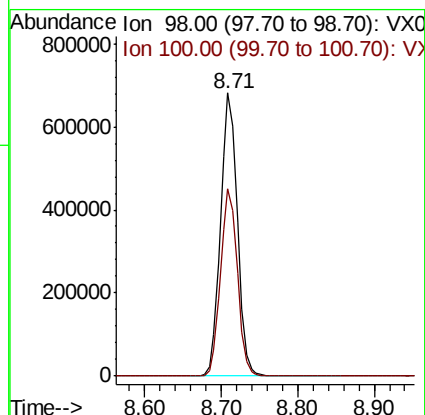
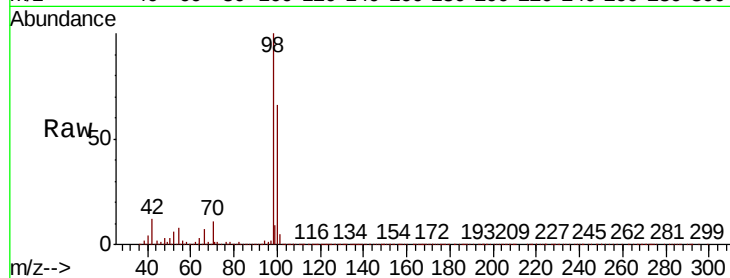
ClientSampleId :

Tot Ion: 98 Resp: 1036437

Ion Ratio Lower Upper

98 100

100 66.1 52.9 79.3



#60

Dibromochloromethane

Concen: 11.143 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX014038.D

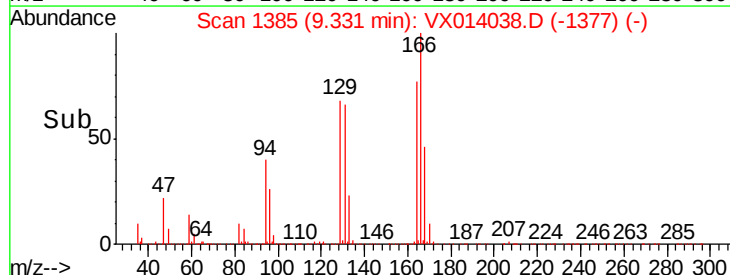
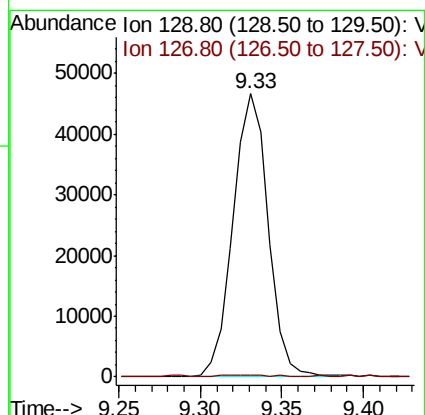
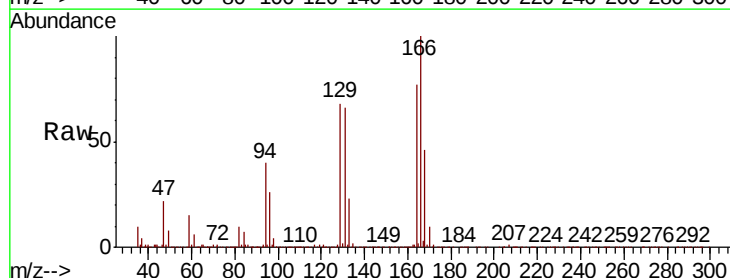
Acq: 16 Dec 2019 16:24

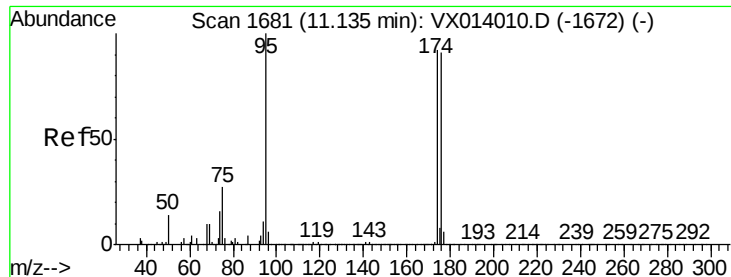
Tgt Ion: 129 Resp: 69541

Ion Ratio Lower Upper

129 100

127 1.0 38.4 115.2#





#62

4-Bromofluorobenzene

Concen: 44.965 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

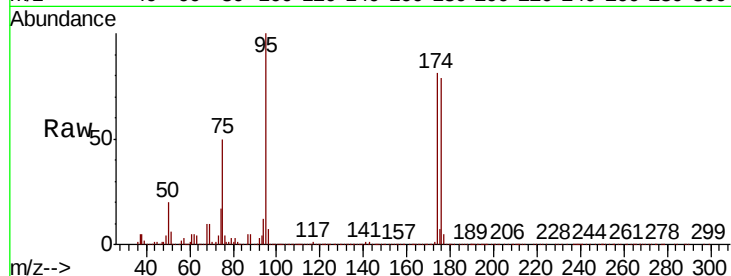
Tot Ion: 95 Resp: 341476

Ion Ratio Lower Upper

95 100

174 87.9 0.0 175.8

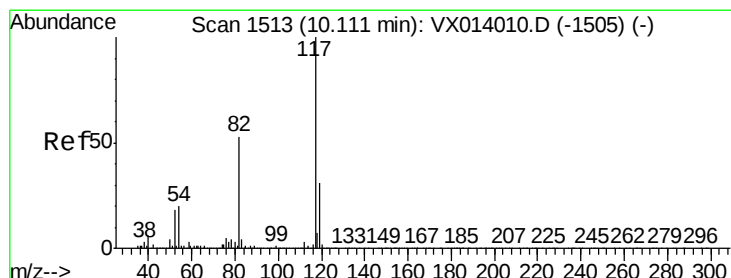
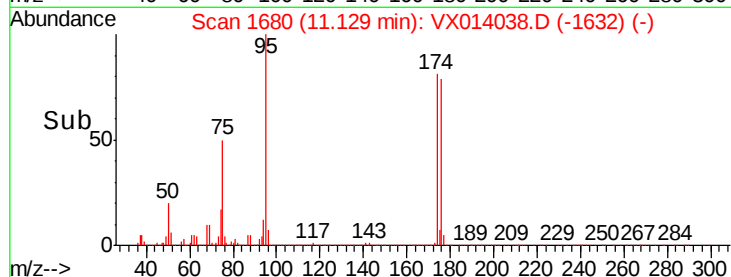
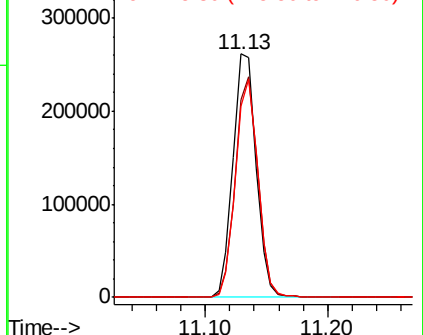
176 86.9 0.0 173.0



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: VX014038.D

Acq: 16 Dec 2019 16:24

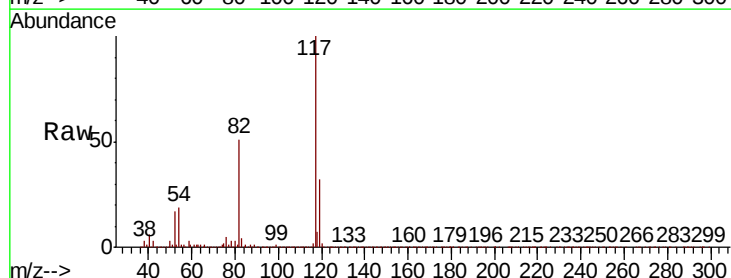
Tgt Ion: 117 Resp: 783428

Ion Ratio Lower Upper

117 100

82 51.4 42.2 63.4

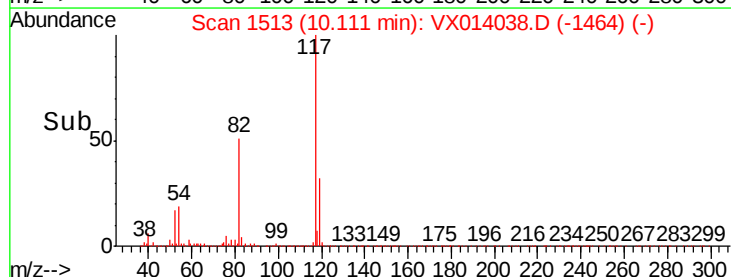
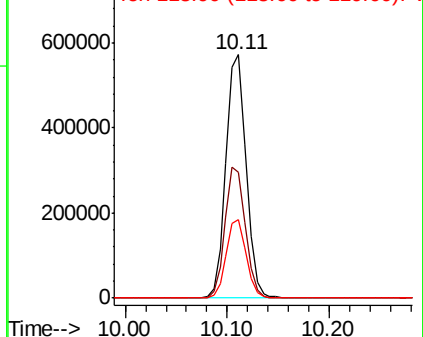
119 32.2 25.1 37.7

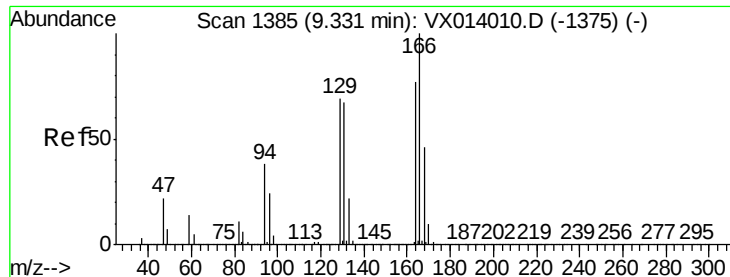


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 11.308 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:164 Resp: 78388

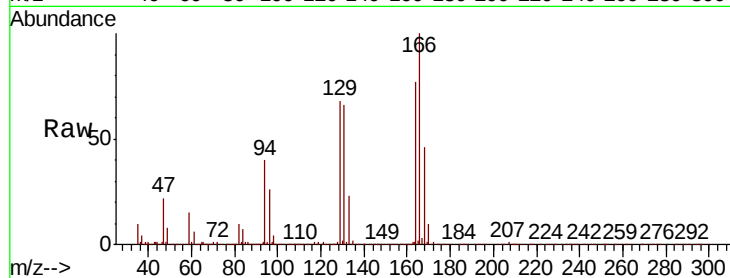
Ion Ratio Lower Upper

164 100

166 129.0 104.0 156.0

129 88.0 72.2 108.4

131 85.7 69.6 104.4

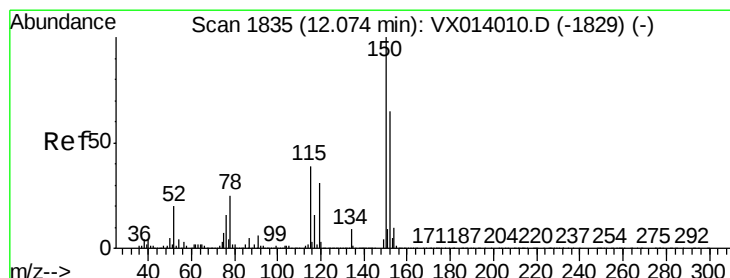
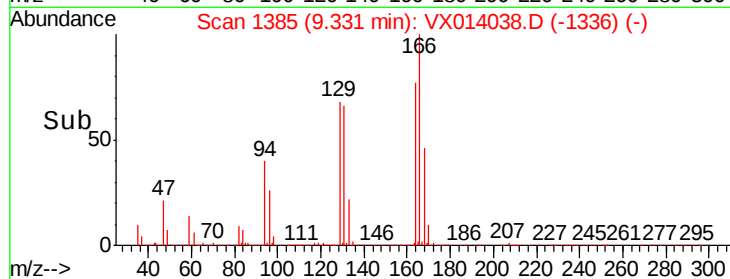
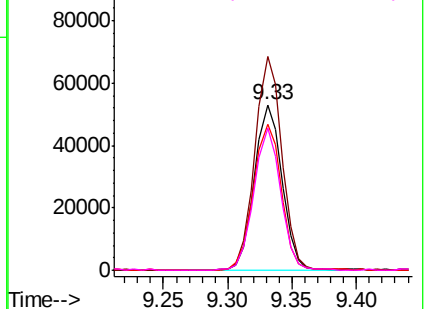


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX014038.D

Acq: 16 Dec 2019 16:24

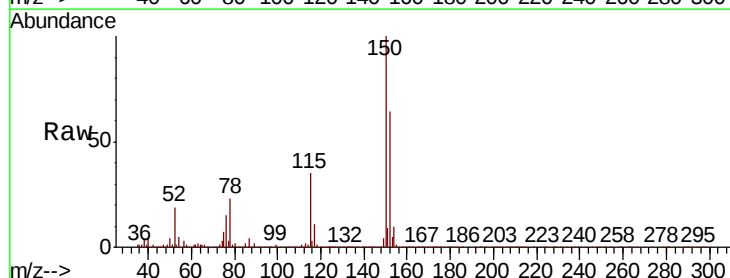
Tgt Ion:152 Resp: 329693

Ion Ratio Lower Upper

152 100

115 55.2 38.3 114.9

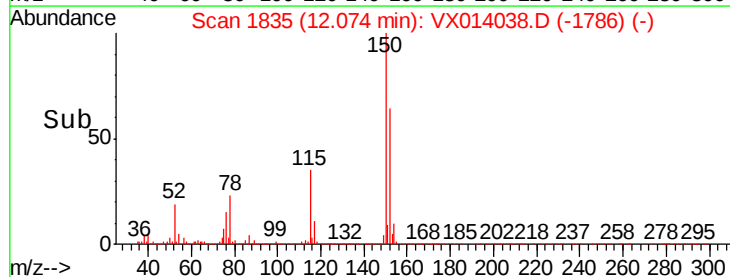
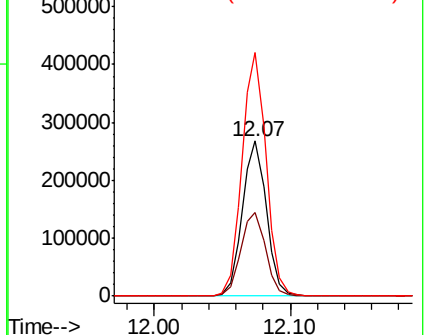
150 157.9 0.0 345.4

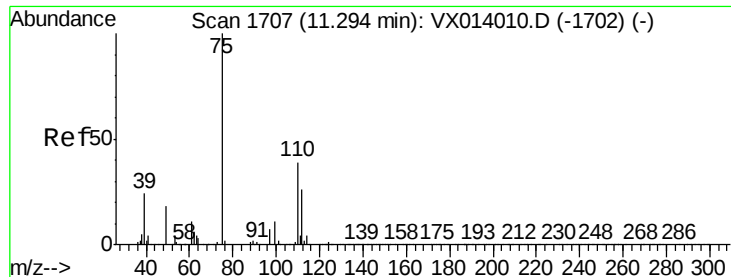


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.217 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

Instrument :

MSVOA_X

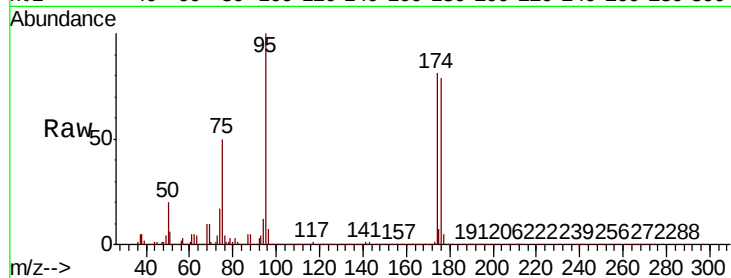
ClientSampled :

Tot Ion: 75 Resp: 166178

Ion Ratio Lower Upper

75 100

77 1.6 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

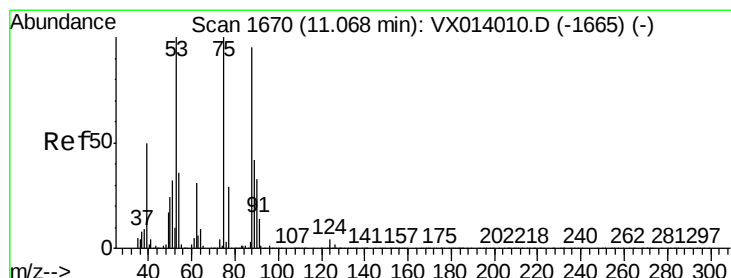
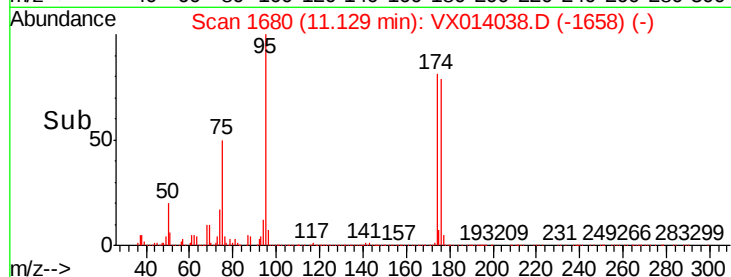
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.531 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

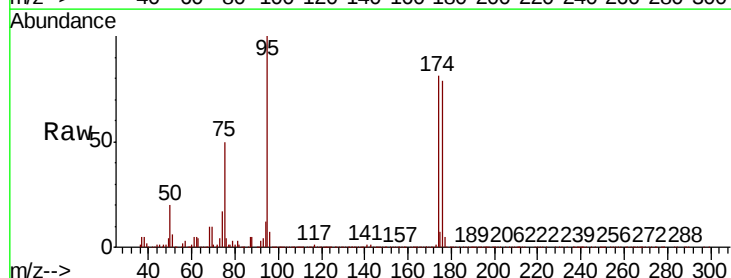
Tgt Ion: 75 Resp: 166178

Ion Ratio Lower Upper

75 100

53 0.0 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

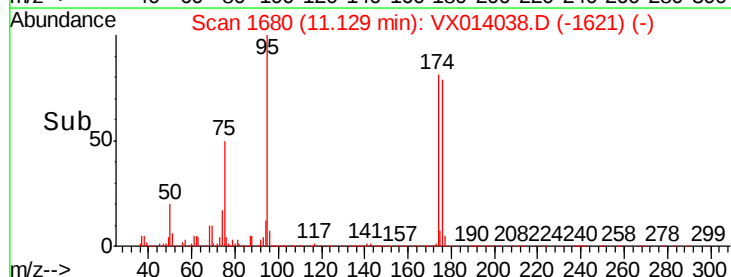
150000

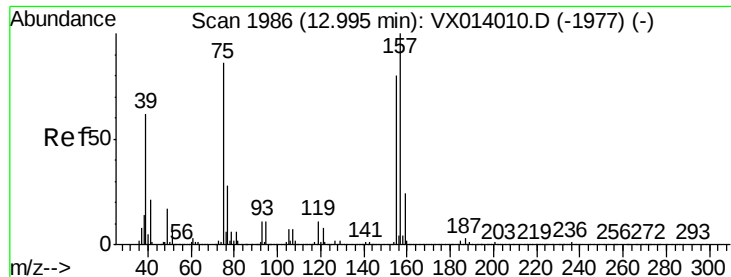
100000

50000

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.216 ug/l

RT: 12.92 min Scan# 1973

Delta R.T. -0.08 min

Lab File: VX014038.D

Acq: 16 Dec 2019 16:24

Instrument :

MSVOA_X

ClientSampleId :

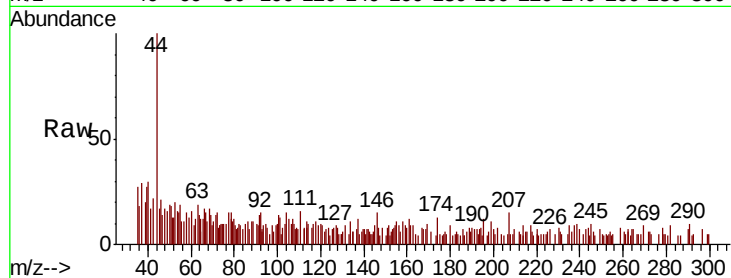
Tot Ion: 75 Resp: 384

Ion Ratio Lower Upper

75 100

155 116.4 46.9 140.6

157 66.7 60.8 182.4



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

