

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122419\
 Data File : VX014252.D
 Acq On : 24 Dec 2019 17:58
 Operator : JC/SP
 Sample : K6405-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 996-MW-15-(17)

Quant Time: Dec 25 05:44:01 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	543373	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	838416	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	752977	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	331046	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	301297	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	
35) Dibromofluoromethane	5.49	113	248470	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
50) Toluene-d8	8.71	98	995153	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
62) 4-Bromofluorobenzene	11.13	95	336284	46.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.72%	

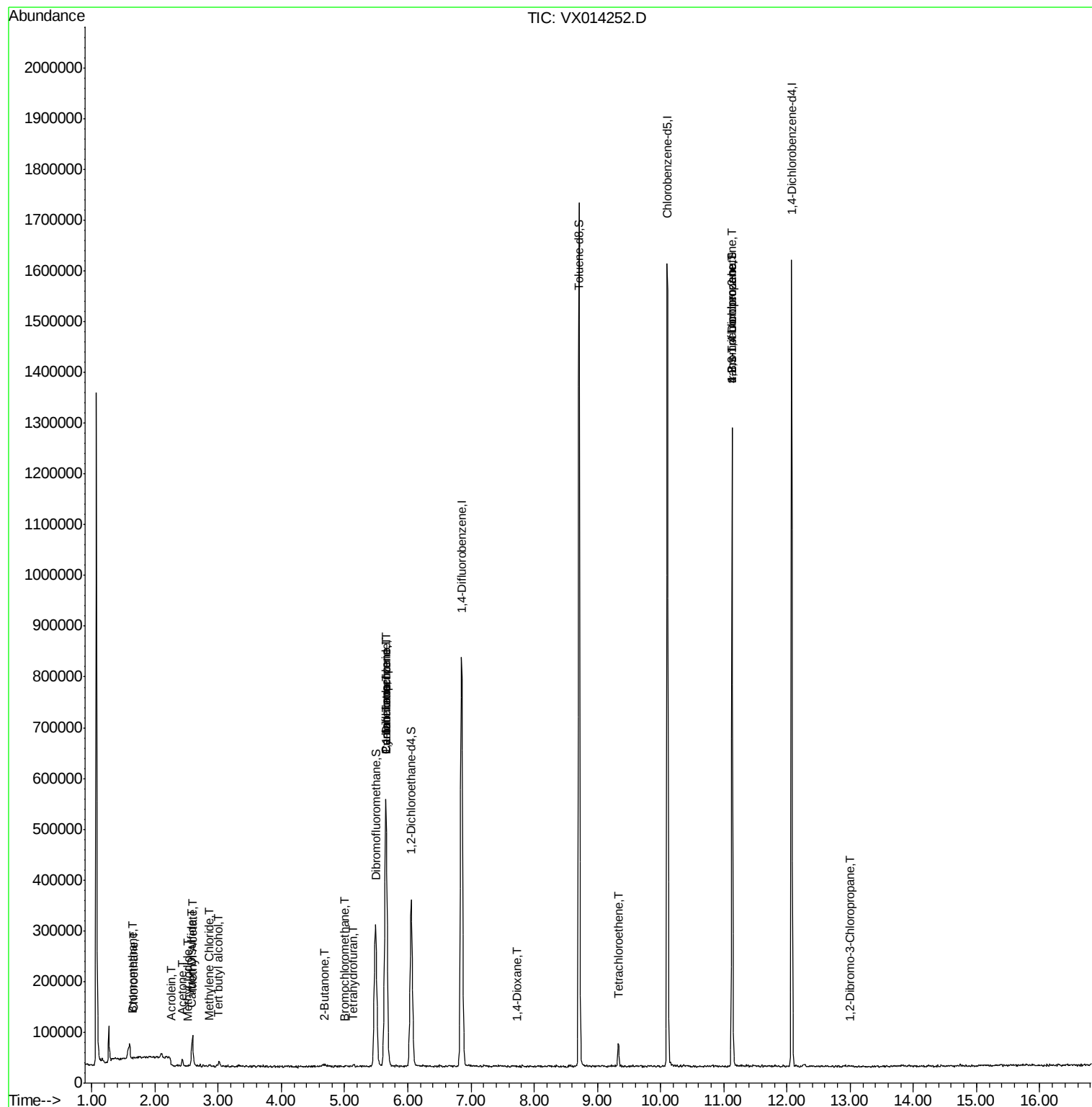
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1079	0.221	ug/l	90
6) Chloroethane	1.67	64	1162	0.274	ug/l #	45
10) Methyl Iodide	2.51	142	826	2.736	ug/l #	71
11) Tert butyl alcohol	3.01	59	7829	5.883	ug/l	99
13) Acrolein	2.27	56	227	0.298	ug/l	89
16) Acetone	2.43	43	16009	4.004	ug/l	95
17) Carbon Disulfide	2.57	76	1434	0.848	ug/l #	1
18) Methyl Acetate	2.59	43	18338	2.315	ug/l #	52
20) Methylene Chloride	2.85	84	2033	0.323	ug/l #	61
25) 2-Butanone	4.68	43	2338	0.474	ug/l #	67
28) Bromochloromethane	5.00	49	205	0.505	ug/l #	63
29) Tetrahydrofuran	5.13	42	3920	1.422	ug/l #	70
31) Cyclohexane	5.65	56	10617	1.154	ug/l #	3
36) 1,1-Dichloropropene	5.65	75	36391	4.730	ug/l #	51
38) Carbon Tetrachloride	5.65	117	48360	6.900	ug/l #	17
49) 1,4-Dioxane	7.73	88	169	1.206	ug/l #	79
64) Tetrachloroethene	9.34	164	10358	1.555	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	163840	22.797	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	163840	64.345	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	372	0.208	ug/l #	1

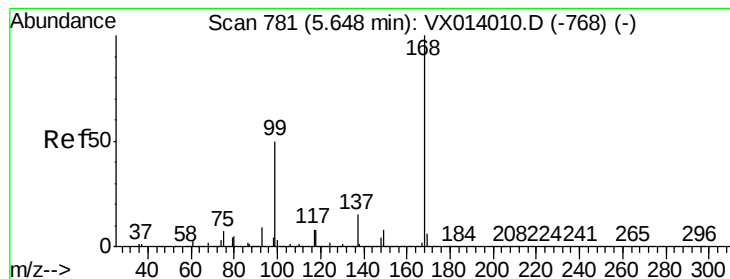
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014252.D

Acq: 24 Dec 2019 17:58

Instrument :

MSVOA_X

ClientSampleId :

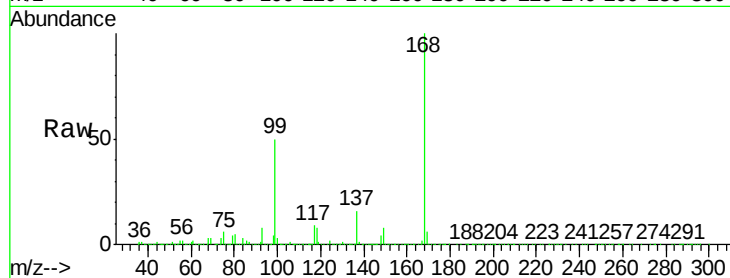
996-MW-15-(17)

Tgt Ion: 168 Resp: 543373

Ion Ratio Lower Upper

168 100

99 50.3 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

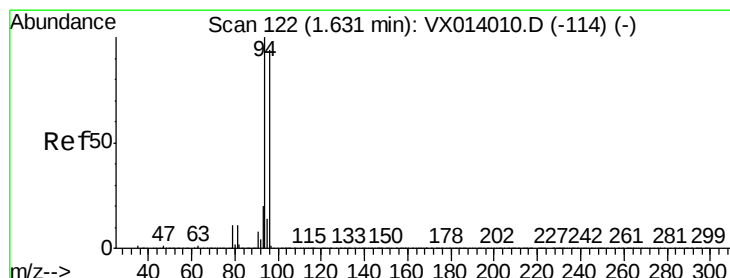
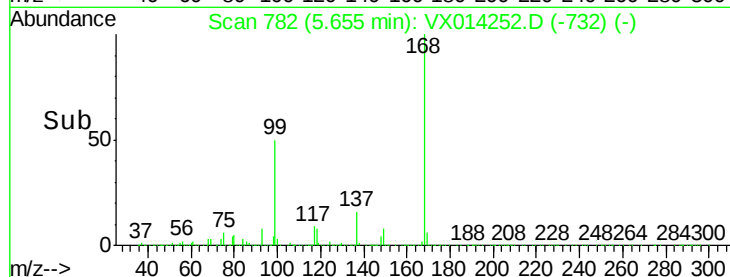
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.221 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014252.D

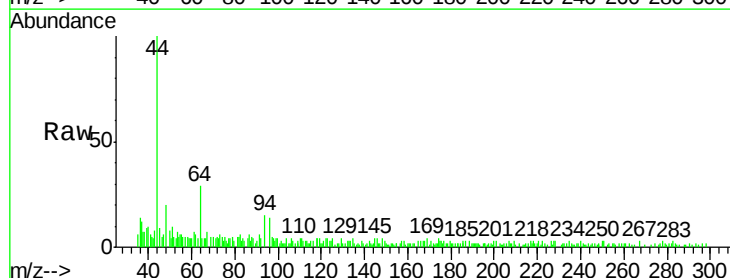
Acq: 24 Dec 2019 17:58

Tgt Ion: 94 Resp: 1079

Ion Ratio Lower Upper

94 100

96 83.9 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

800

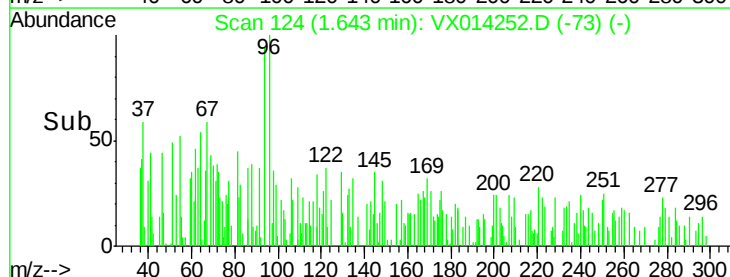
600

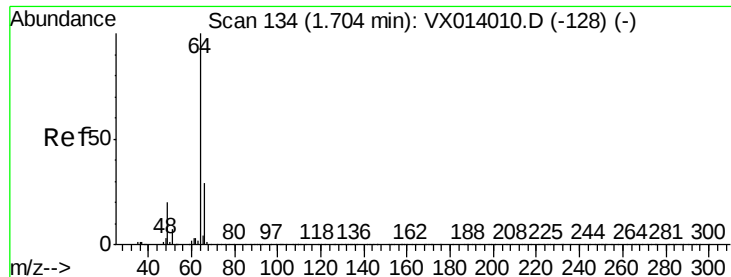
400

200

0

Time-->





#6

Chloroethane

Concen: 0.274 ug/l

RT: 1.67 min Scan# 128

Delta R.T. -0.04 min

Lab File: VX014252.D

Acq: 24 Dec 2019 17:58

Instrument :

MSVOA_X

ClientSampleId :

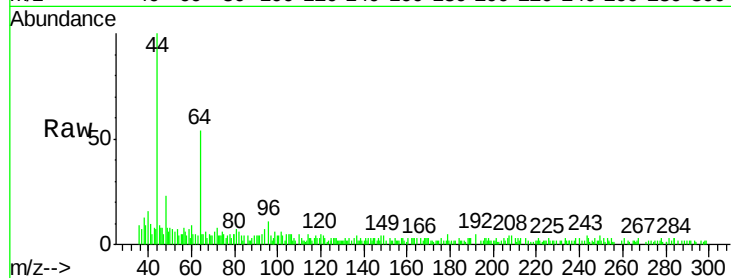
996-MW-15-(17)

Tgt Ion: 64 Resp: 1162

Ion Ratio Lower Upper

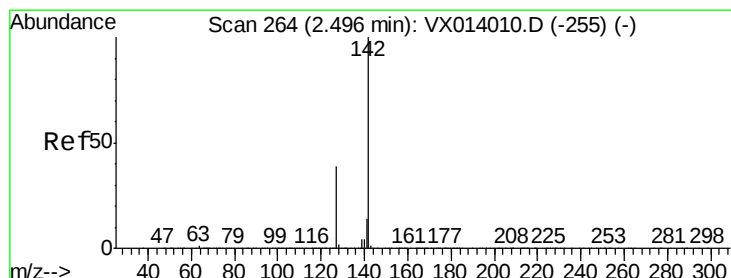
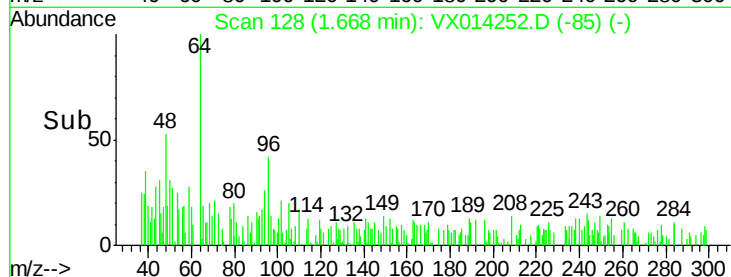
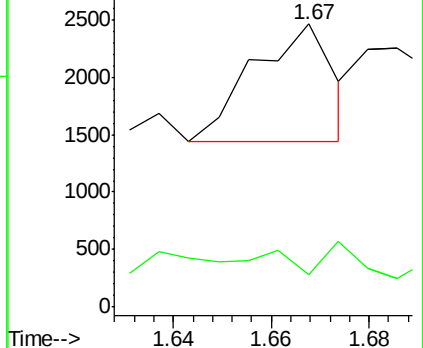
64 100

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



#10

Methyl Iodide

Concen: 2.736 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX014252.D

Acq: 24 Dec 2019 17:58

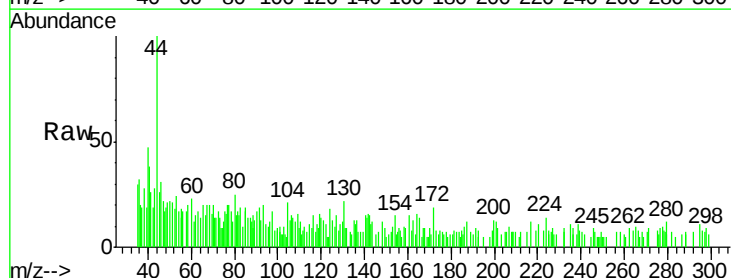
Tgt Ion: 142 Resp: 826

Ion Ratio Lower Upper

142 100

127 24.2 31.6 47.4#

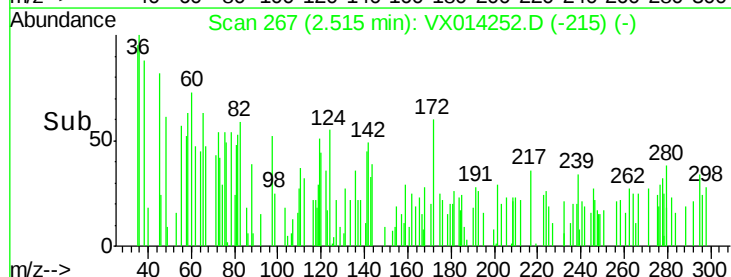
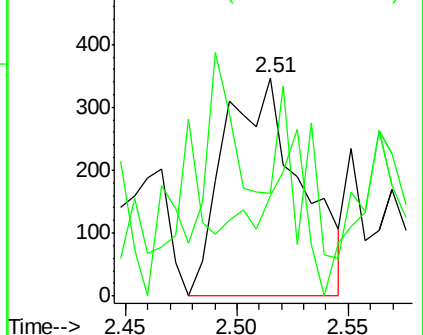
141 31.2 11.6 17.4#

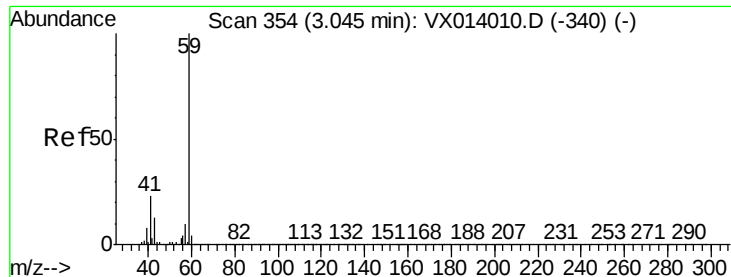


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



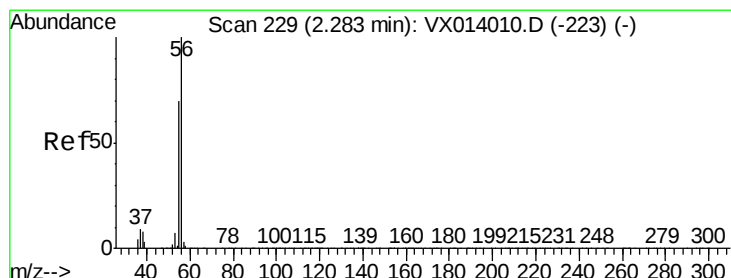
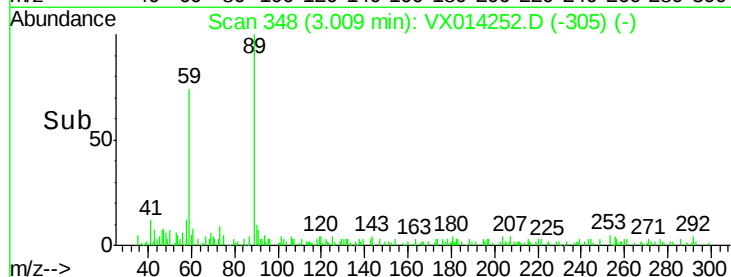
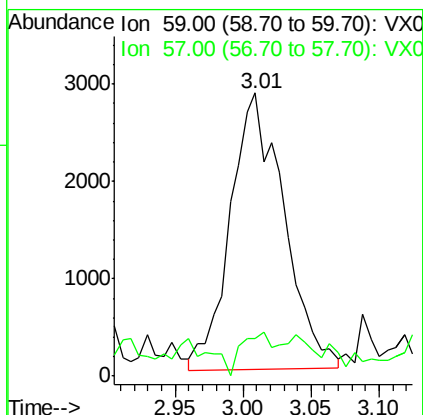
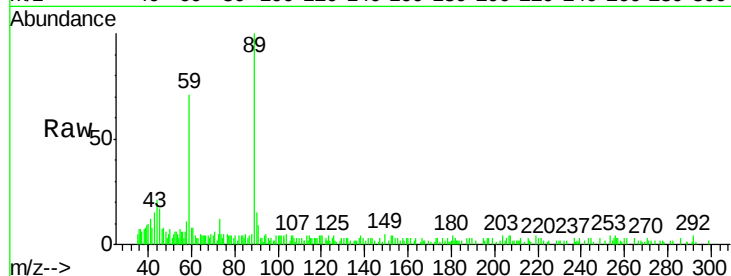


#11

Tert butyl alcohol
 Concen: 5.883 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.04 min
 Lab File: VX014252.D
 Acq: 24 Dec 2019 17:58

Instrument :
 MSVOA_X
 ClientSampleId :
 996-MW-15-(17)

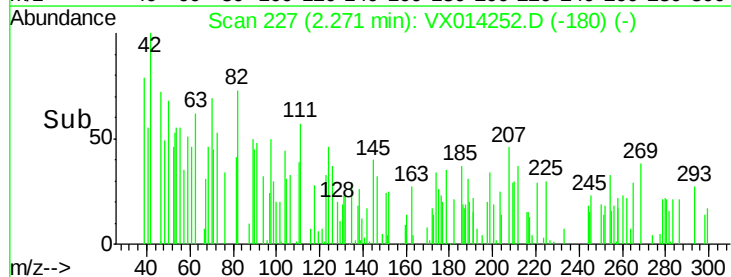
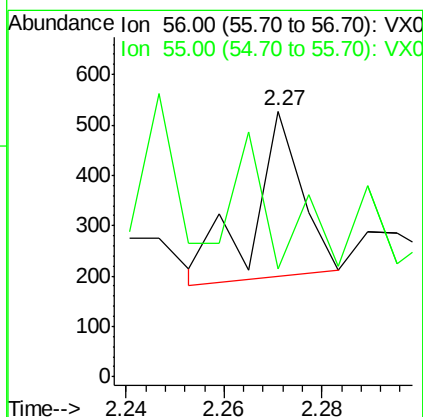
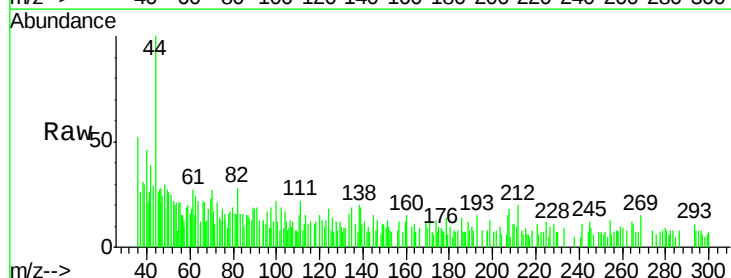
Tgt Ion: 59 Resp: 7829
 Ion Ratio Lower Upper
 59 100
 57 10.0 8.4 12.6

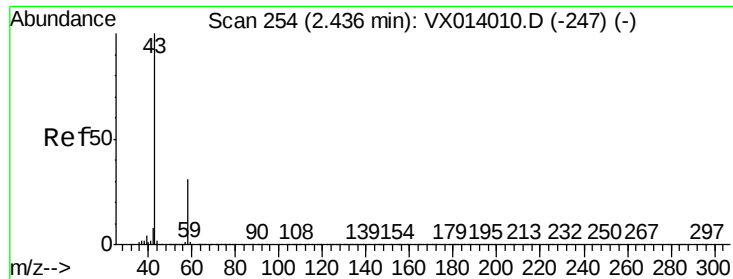


#13

Acrolein
 Concen: 0.298 ug/l
 RT: 2.27 min Scan# 227
 Delta R.T. -0.01 min
 Lab File: VX014252.D
 Acq: 24 Dec 2019 17:58

Tgt Ion: 56 Resp: 227
 Ion Ratio Lower Upper
 56 100
 55 80.2 56.9 85.3





#16

Acetone

Concen: 4.004 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014252.D

Acq: 24 Dec 2019 17:58

Instrument :

MSVOA_X

ClientSampleId :

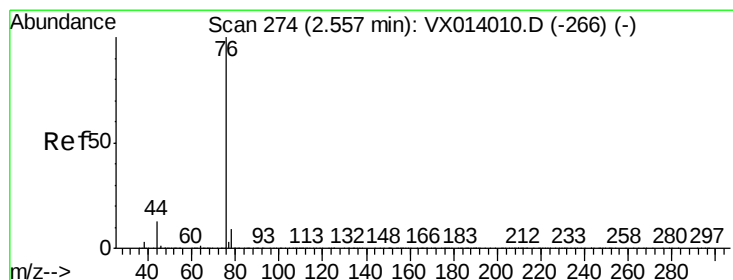
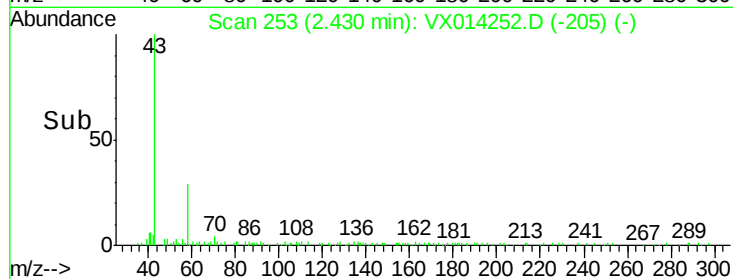
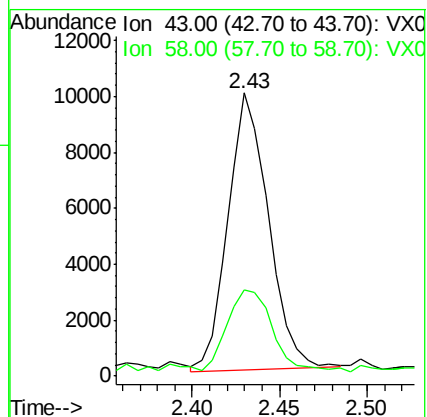
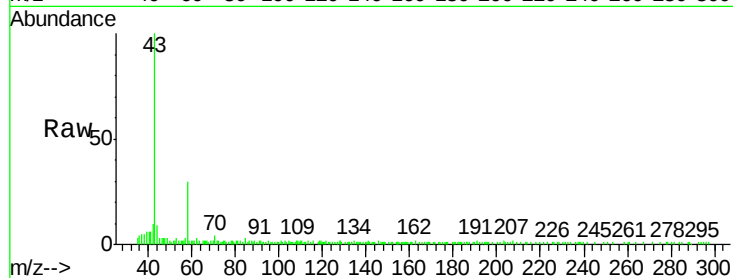
996-MW-15-(17)

Tgt Ion: 43 Resp: 16009

Ion Ratio Lower Upper

43 100

58 28.5 24.9 37.3



#17

Carbon Disulfide

Concen: 0.848 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX014252.D

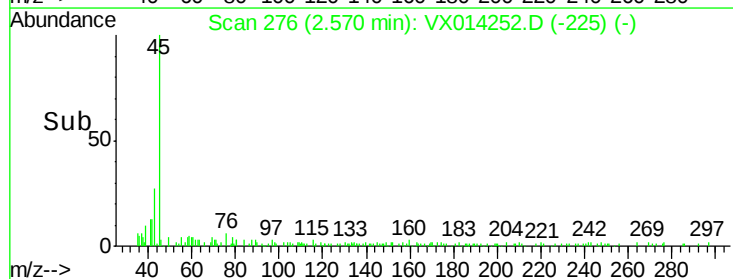
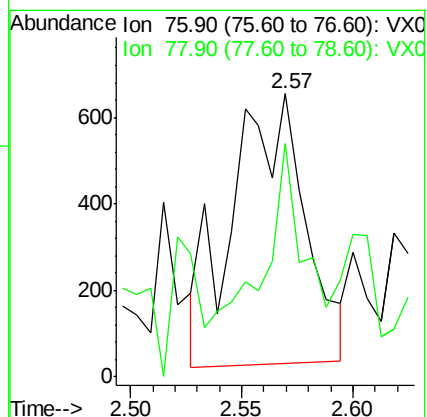
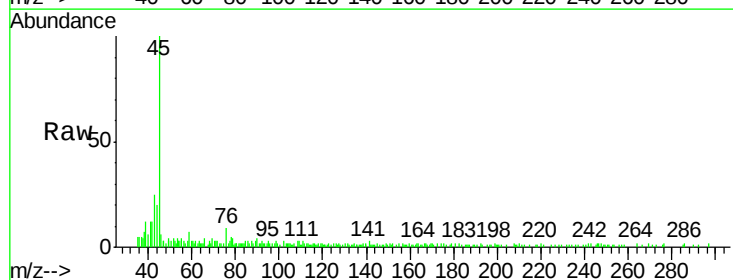
Acq: 24 Dec 2019 17:58

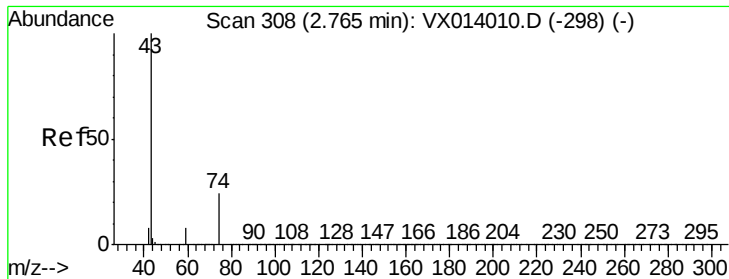
Tgt Ion: 76 Resp: 1434

Ion Ratio Lower Upper

76 100

78 125.8 7.2 10.8#

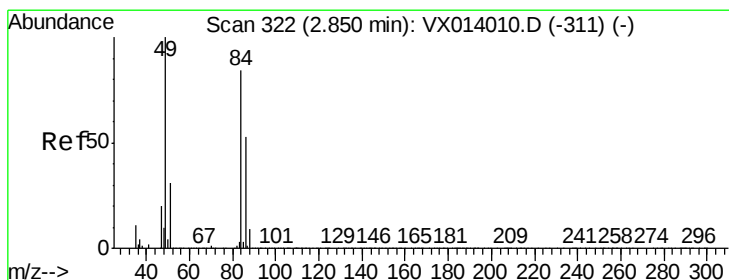
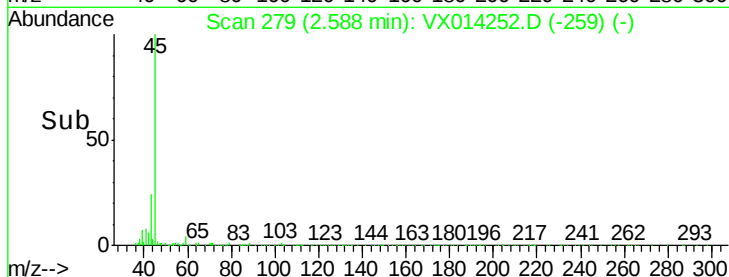
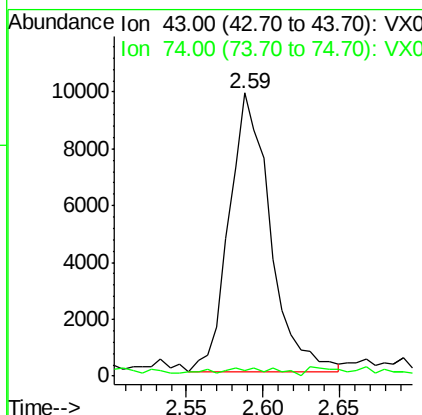
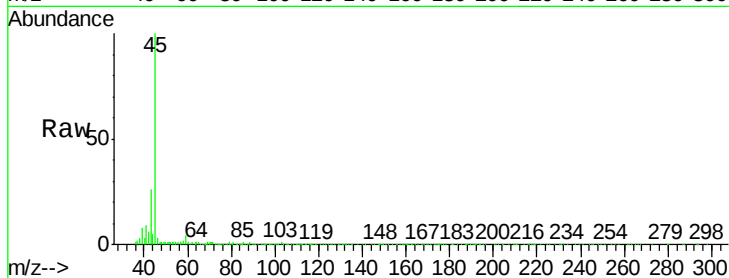




#18
Methyl Acetate
Concen: 2.315 ug/l
RT: 2.59 min Scan# 279
Delta R.T. -0.18 min
Lab File: VX014252.D
Acq: 24 Dec 2019 17:58

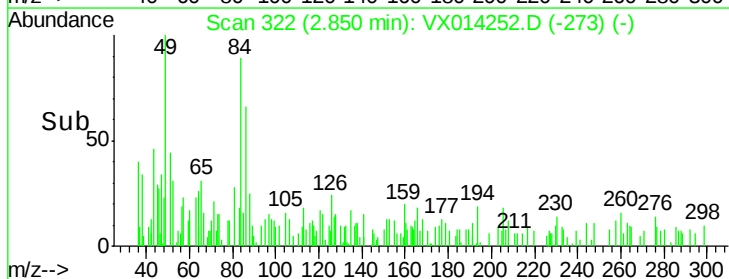
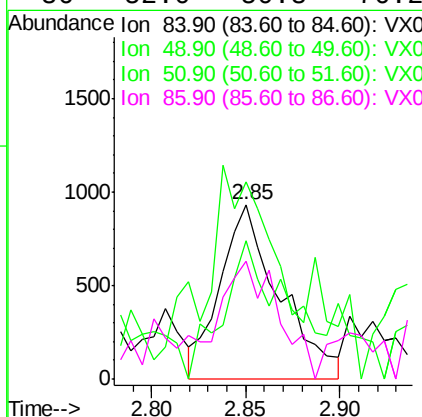
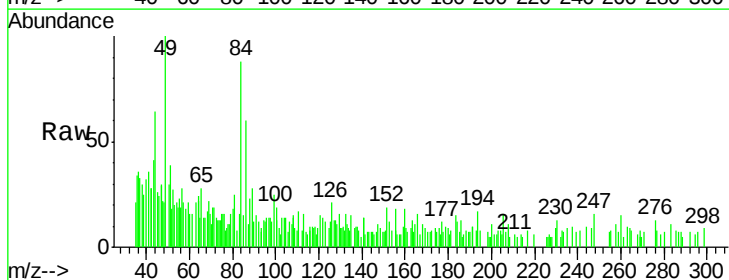
Instrument :
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996-MW-15-(17)

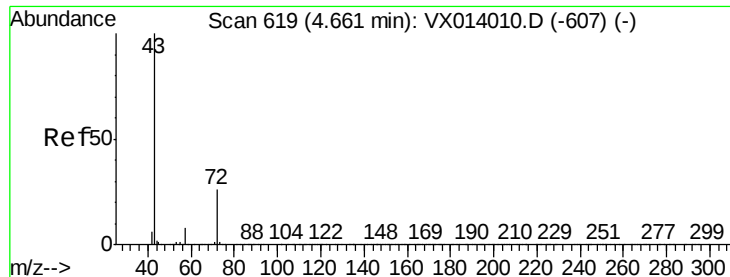
Tgt Ion: 43 Resp: 18338
Ion Ratio Lower Upper
43 100
74 0.6 19.5 29.3#



#20
Methylene Chloride
Concen: 0.323 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014252.D
Acq: 24 Dec 2019 17:58

Tgt Ion: 84 Resp: 2033
Ion Ratio Lower Upper
84 100
49 79.3 95.8 143.6#
51 90.2 29.8 44.8#
86 52.0 50.8 76.2





#25

2-Butanone

Concen: 0.474 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX014252.D

Acq: 24 Dec 2019 17:58

Instrument :

MSVOA_X

ClientSampleId :

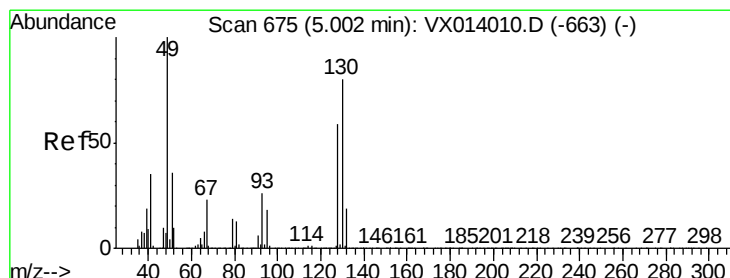
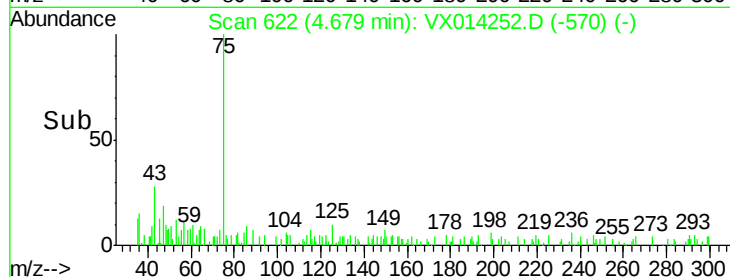
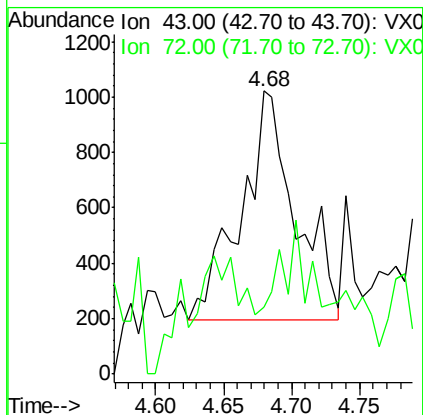
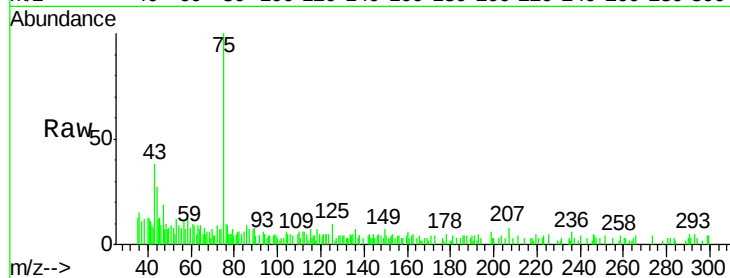
996-MW-15-(17)

Tgt Ion: 43 Resp: 2338

Ion Ratio Lower Upper

43 100

72 9.2 21.0 31.4#



#28

Bromochloromethane

Concen: 0.505 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX014252.D

Acq: 24 Dec 2019 17:58

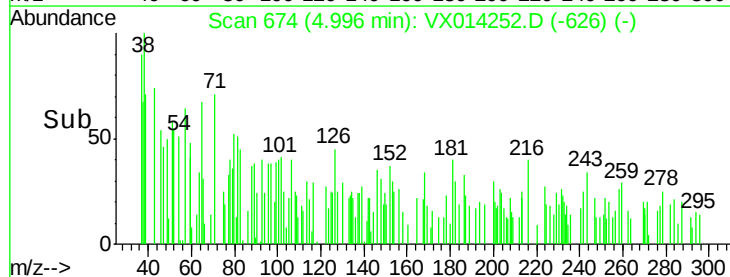
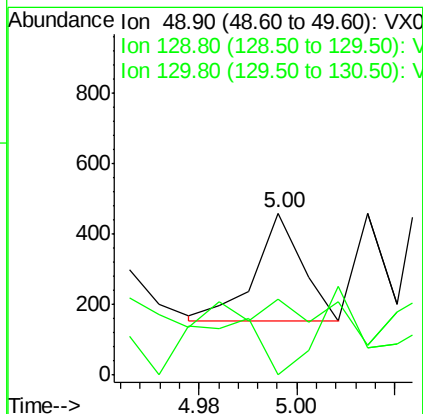
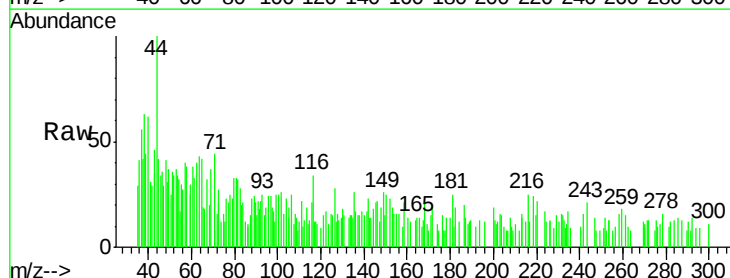
Tgt Ion: 49 Resp: 205

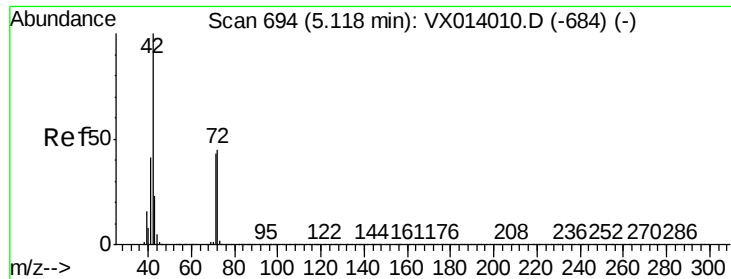
Ion Ratio Lower Upper

49 100

129 76.6 0.0 5.0#

130 53.2 64.6 97.0#





#29

Tetrahydrofuran

Concen: 1.422 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.01 min

Lab File: VX014252.D

Acq: 24 Dec 2019 17:58

Instrument :

MSVOA_X

ClientSampleId :

996-MW-15-(17)

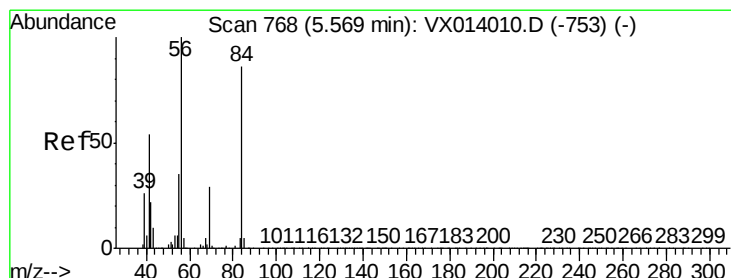
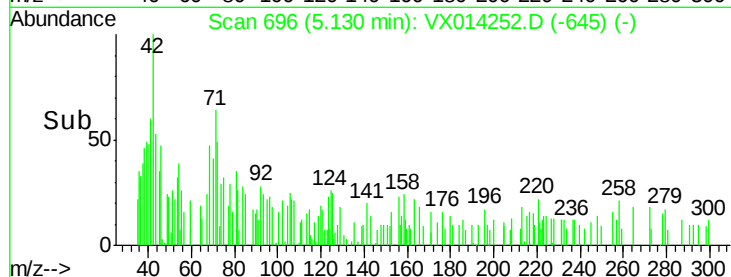
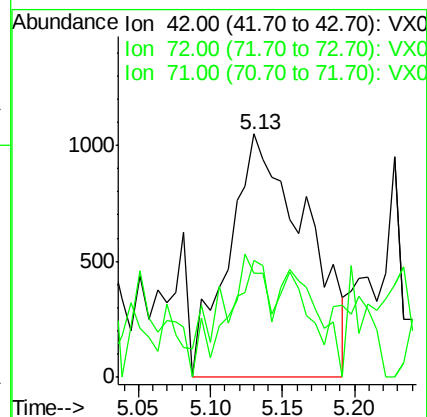
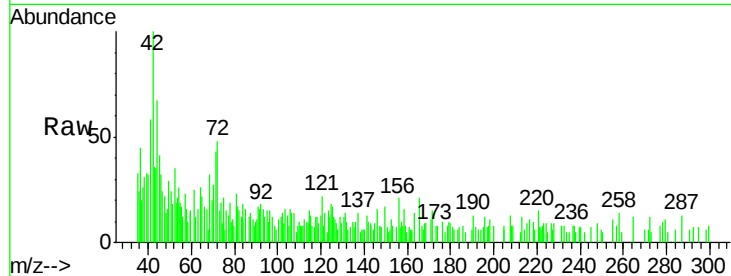
Tgt Ion: 42 Resp: 3920

Ion Ratio Lower Upper

42 100

72 21.7 35.8 53.8#

71 26.7 33.6 50.4#



#31

Cyclohexane

Concen: 1.154 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX014252.D

Acq: 24 Dec 2019 17:58

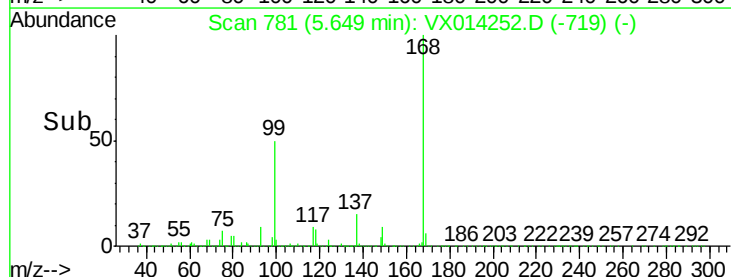
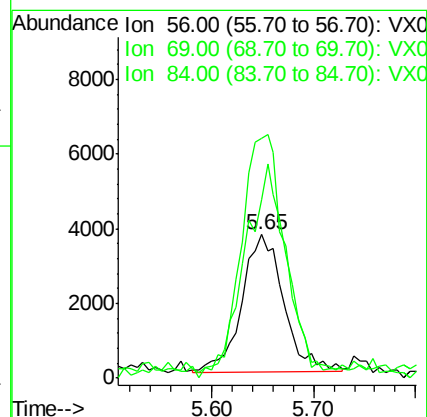
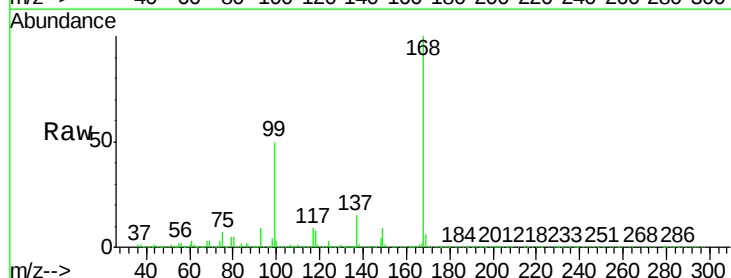
Tgt Ion: 56 Resp: 10617

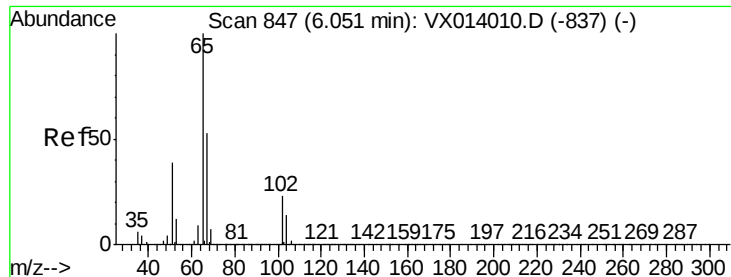
Ion Ratio Lower Upper

56 100

69 170.5 23.2 34.8#

84 124.5 69.2 103.8#





#33

1,2-Dichloroethane-d4

Concen: 48.925 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014252.D

Acq: 24 Dec 2019 17:58

Instrument :

MSVOA_X

ClientSampleId :

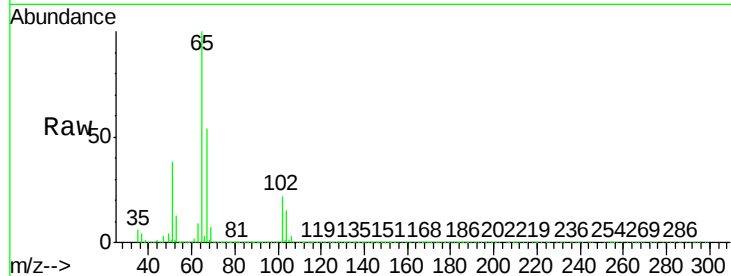
996-MW-15-(17)

Tgt Ion: 65 Resp: 301297

Ion Ratio Lower Upper

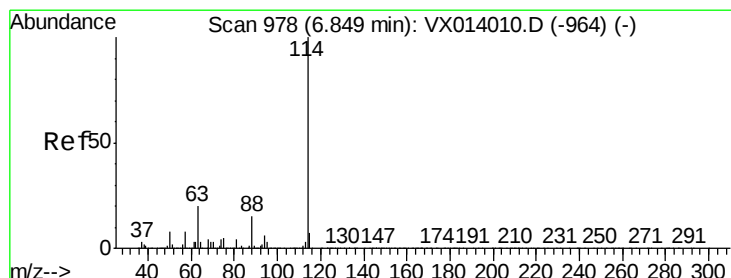
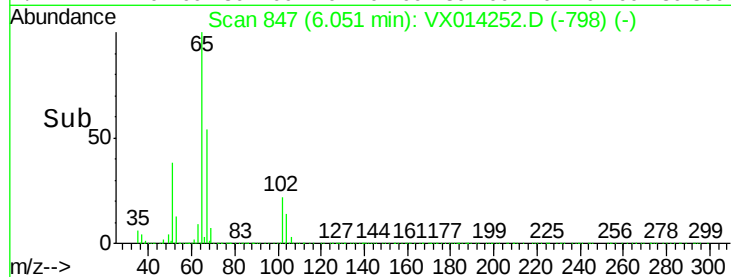
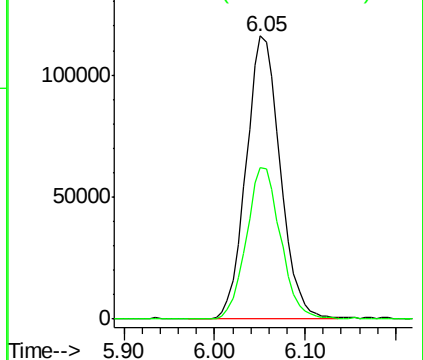
65 100

67 53.4 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: VX014252.D

Acq: 24 Dec 2019 17:58

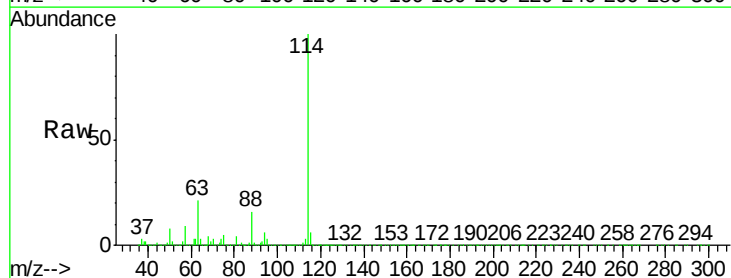
Tgt Ion: 114 Resp: 838416

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.8

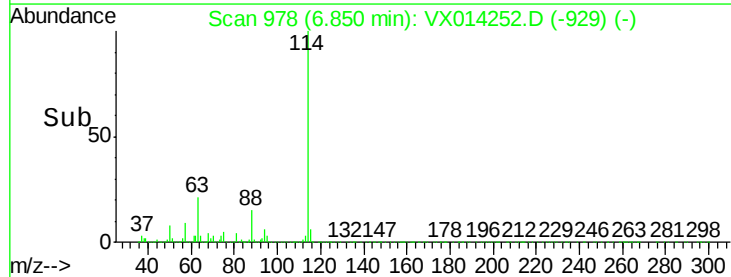
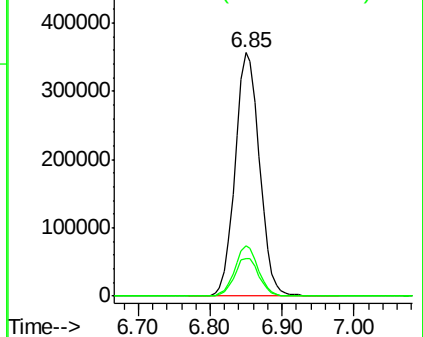
88 15.5 0.0 30.4

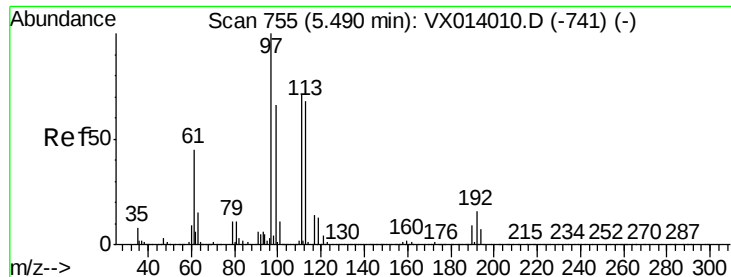


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

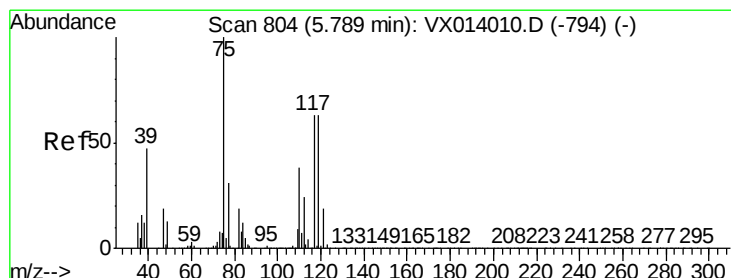
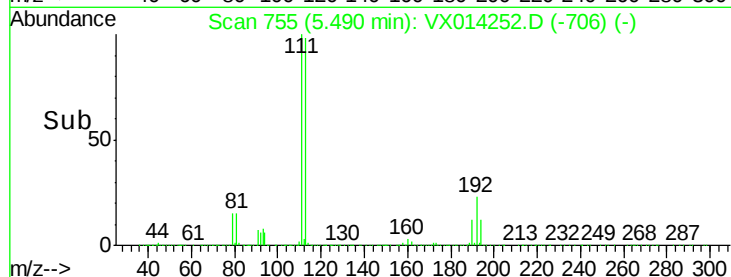
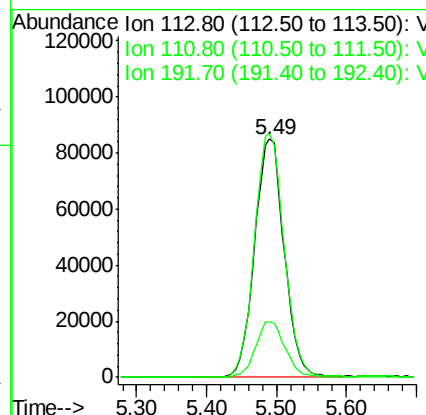
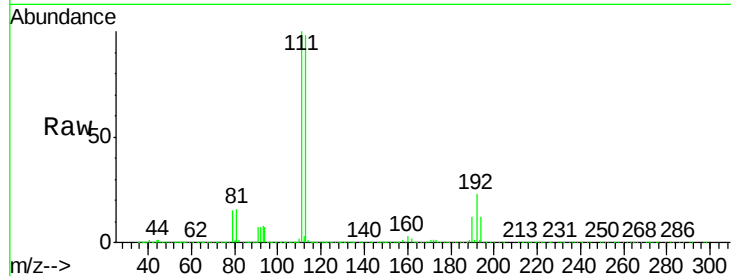




#35
Dibromofluoromethane
Concen: 48.752 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX014252.D
Acq: 24 Dec 2019 17:58

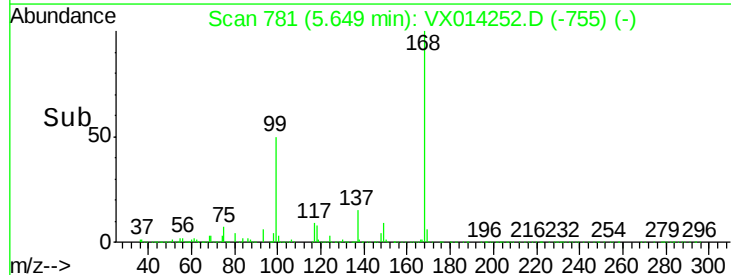
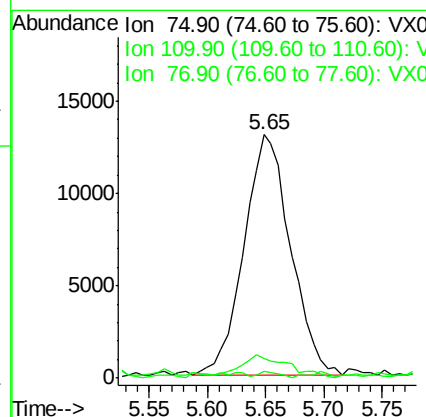
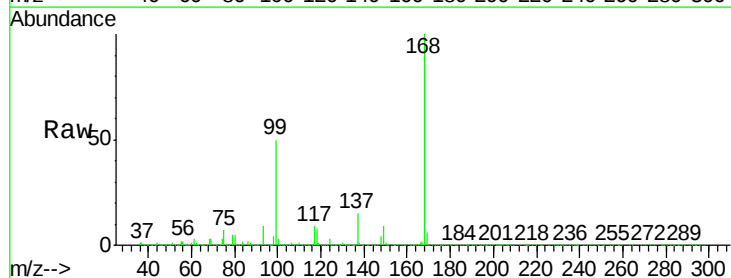
Instrument :
MSVOA_X
ClientSampleId :
996-MW-15-(17)

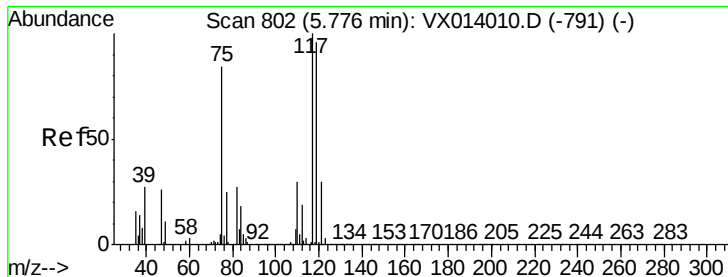
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.0	123.0
192	23.0	19.3	28.9



#36
1,1-Dichloropropene
Concen: 4.730 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.14 min
Lab File: VX014252.D
Acq: 24 Dec 2019 17:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.8	18.3	54.9#
77	1.2	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.900 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014252.D

Acq: 24 Dec 2019 17:58

Instrument :

MSVOA_X

ClientSampleId :

996-MW-15-(17)

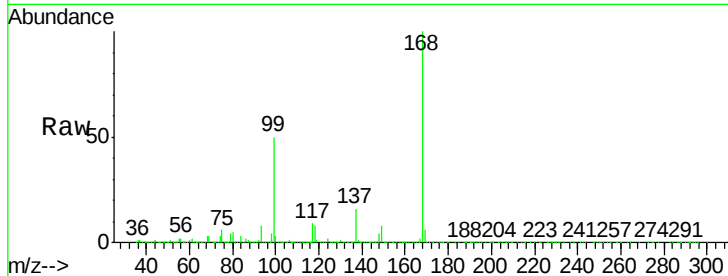
Tgt Ion: 117 Resp: 48360

Ion Ratio Lower Upper

117 100

119 5.6 76.2 114.4#

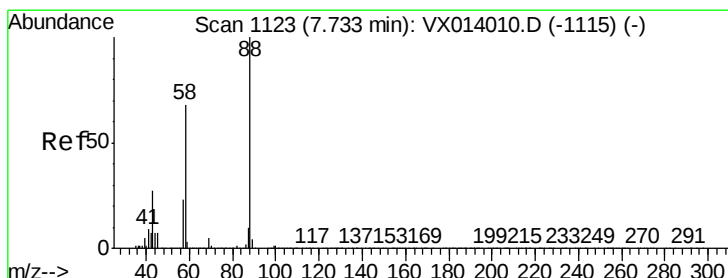
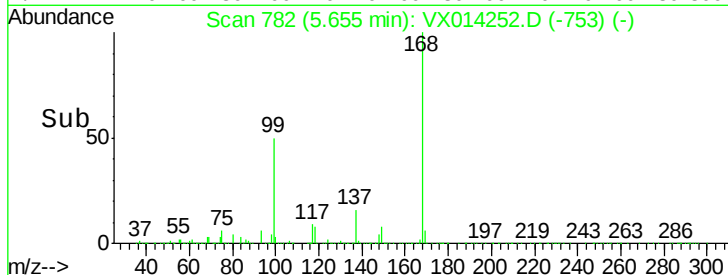
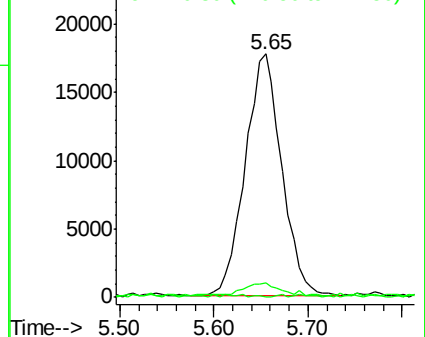
121 0.8 23.6 35.4#



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



#49

1,4-Dioxane

Concen: 1.206 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014252.D

Acq: 24 Dec 2019 17:58

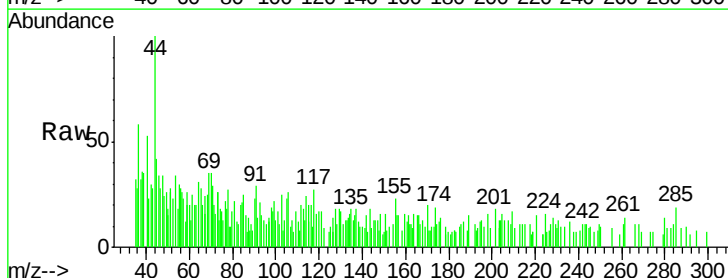
Tgt Ion: 88 Resp: 169

Ion Ratio Lower Upper

88 100

43 42.0 26.5 39.7#

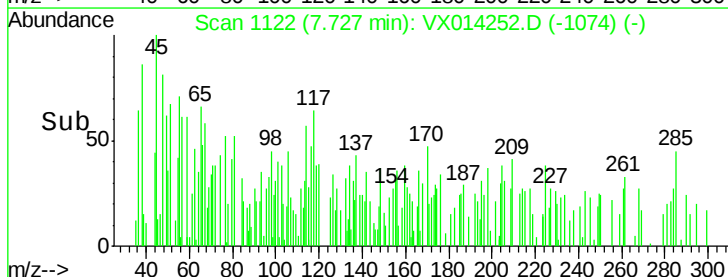
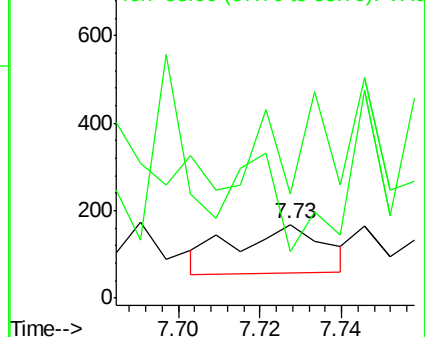
58 90.5 56.8 85.2#

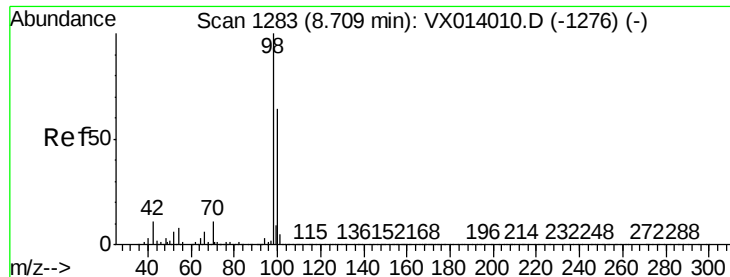


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

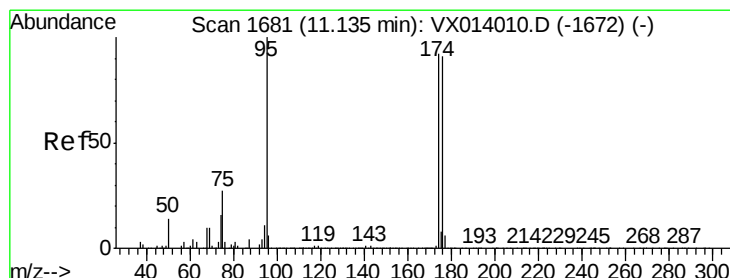
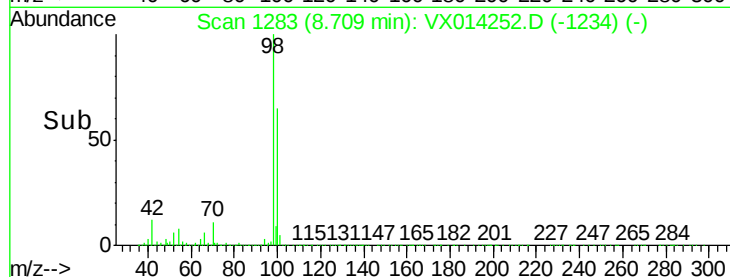
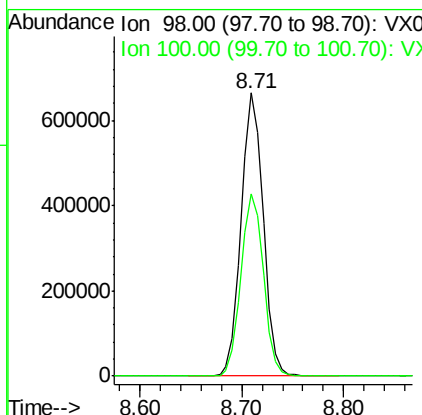
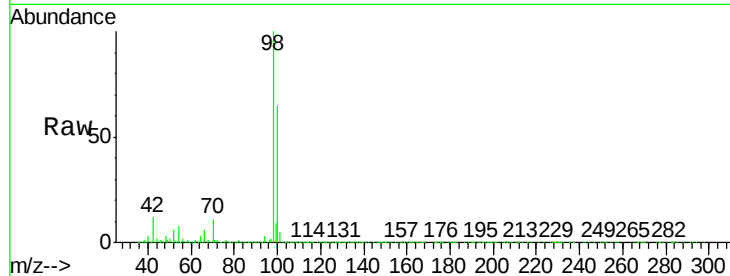




#50
Toluene-d8
Concen: 50.153 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014252.D
Acq: 24 Dec 2019 17:58

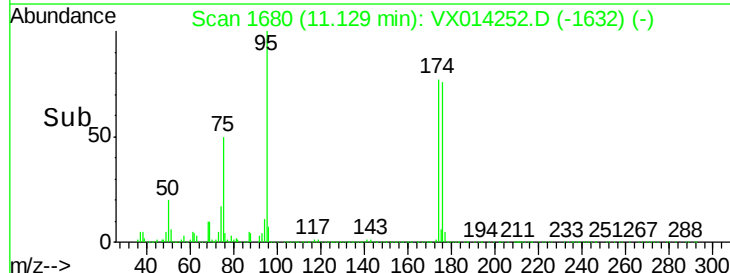
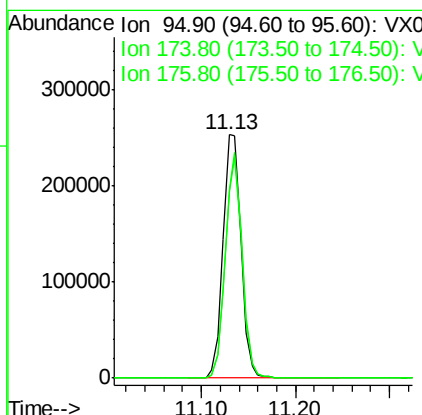
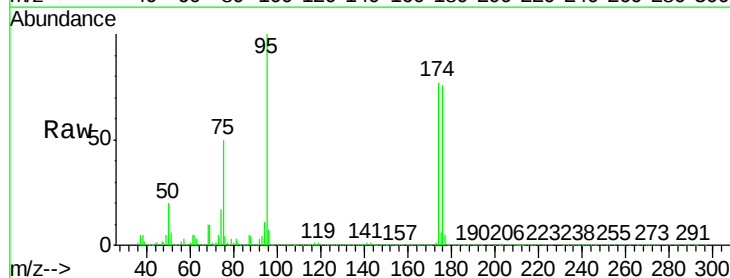
Instrument :
MSVOA_X
ClientSampleId :
996-MW-15-(17)

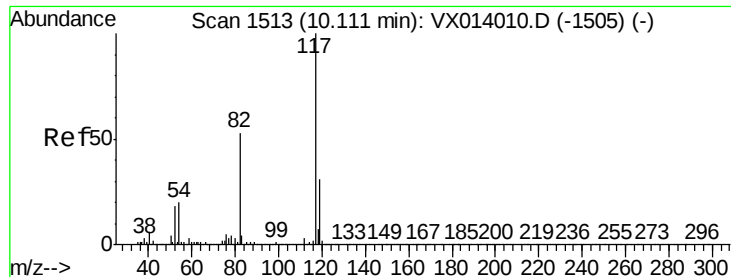
Tgt Ion: 98 Resp: 995153
Ion Ratio Lower Upper
98 100
100 65.7 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 46.363 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014252.D
Acq: 24 Dec 2019 17:58

Tgt Ion: 95 Resp: 336284
Ion Ratio Lower Upper
95 100
174 86.5 0.0 175.8
176 84.0 0.0 173.0

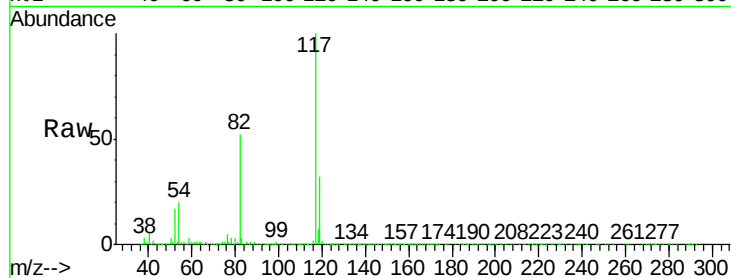




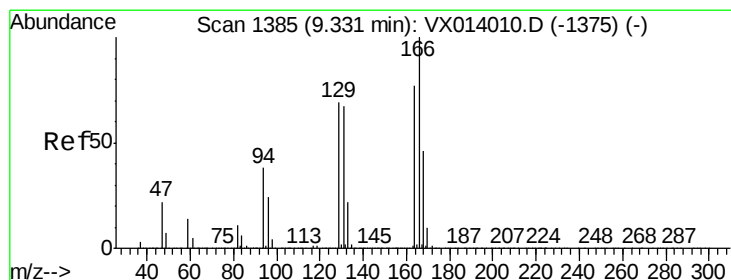
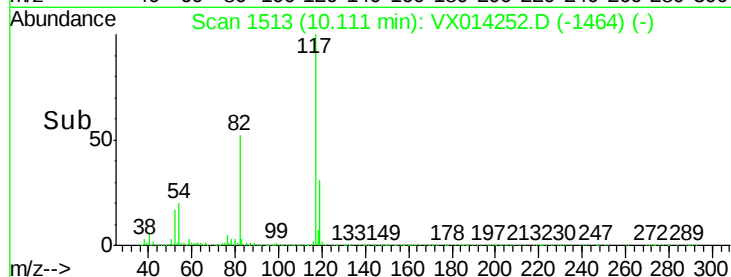
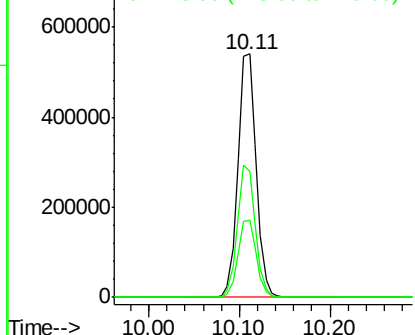
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014252.D
Acq: 24 Dec 2019 17:58

Instrument :
MSVOA_X
ClientSampleId :
996-MW-15-(17)

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.8	42.2	63.4
119	31.5	25.1	37.7



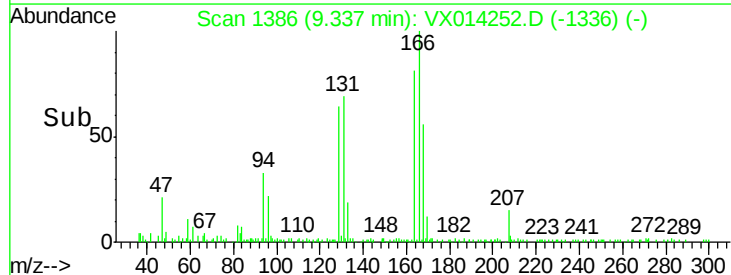
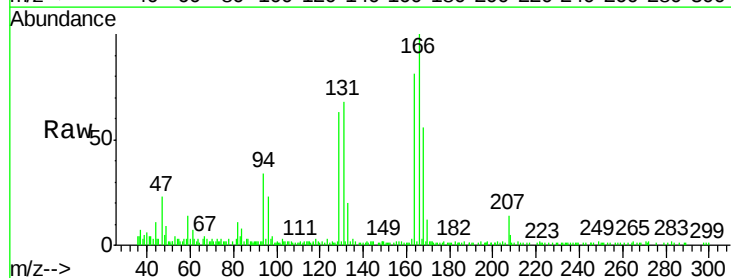
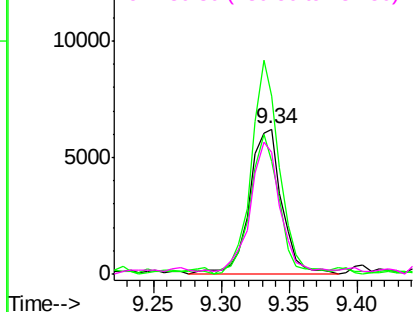
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

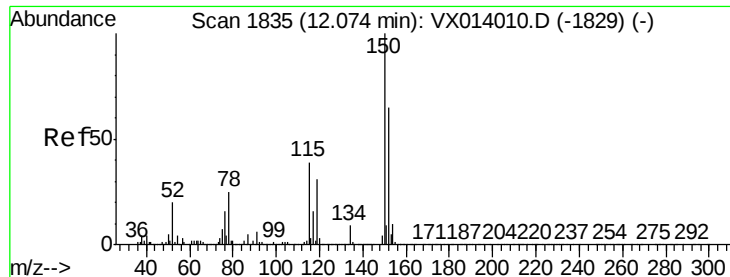


#64
Tetrachloroethene
Concen: 1.555 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX014252.D
Acq: 24 Dec 2019 17:58

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.2	104.0	156.0
129	75.3	72.2	108.4
131	81.1	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: VX014252.D

Acq: 24 Dec 2019 17:58

Instrument :

MSVOA_X

ClientSampleId :

996-MW-15-(17)

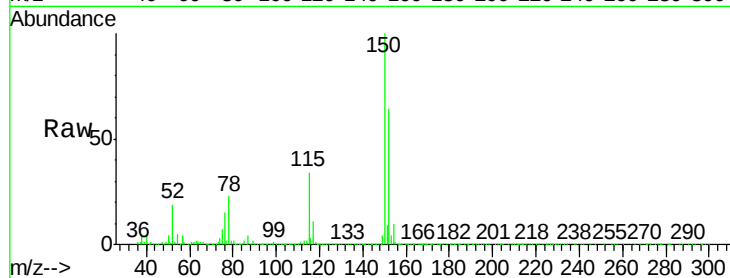
Tgt Ion: 152 Resp: 331046

Ion Ratio Lower Upper

152 100

115 54.2 38.3 114.9

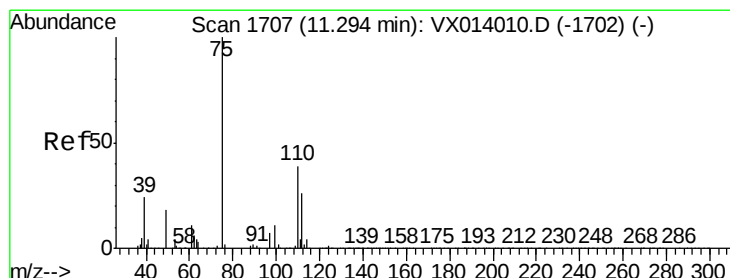
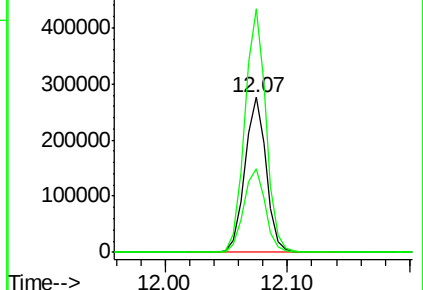
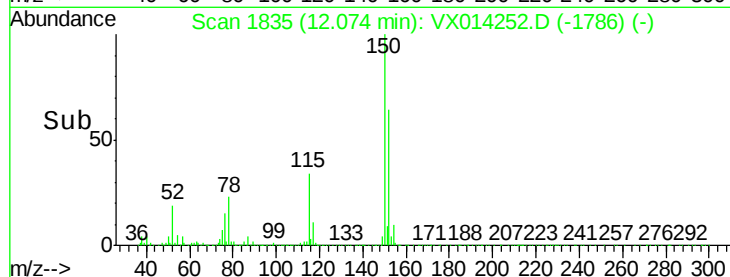
150 155.6 0.0 345.4



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: 22.797 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014252.D

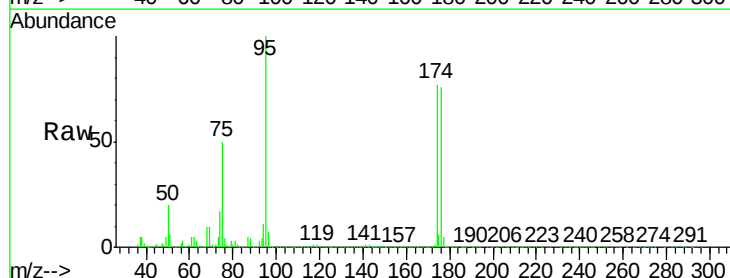
Acq: 24 Dec 2019 17:58

Tgt Ion: 75 Resp: 163840

Ion Ratio Lower Upper

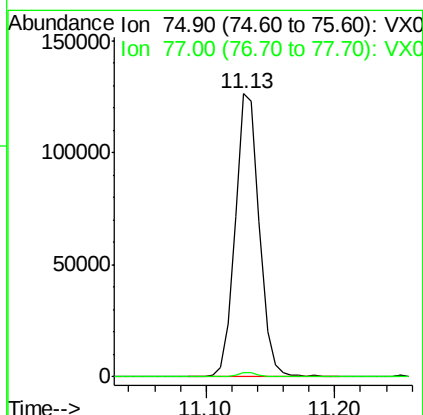
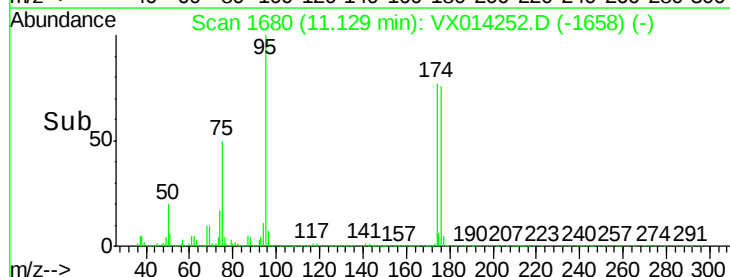
75 100

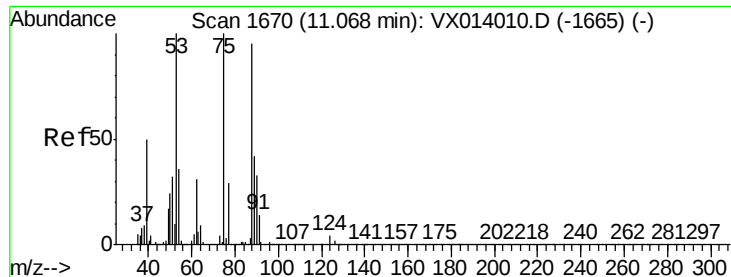
77 2.0 19.3 57.8#



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: 64.345 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014252.D

Acq: 24 Dec 2019 17:58

Instrument :

MSVOA_X

ClientSampleId :

996-MW-15-(17)

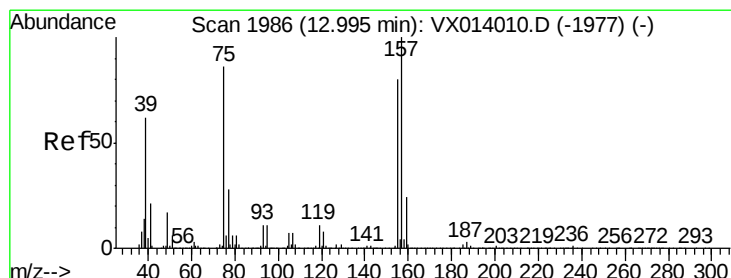
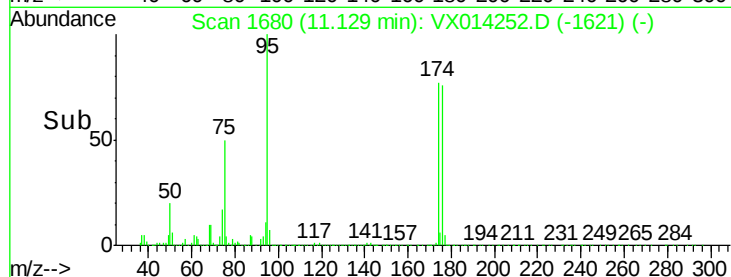
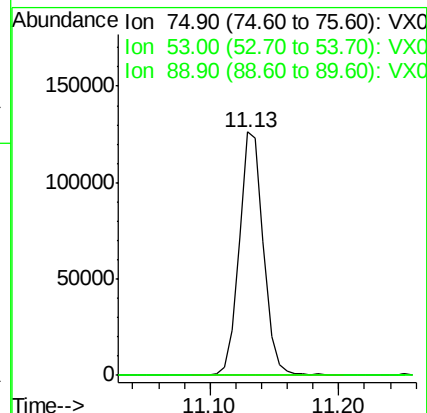
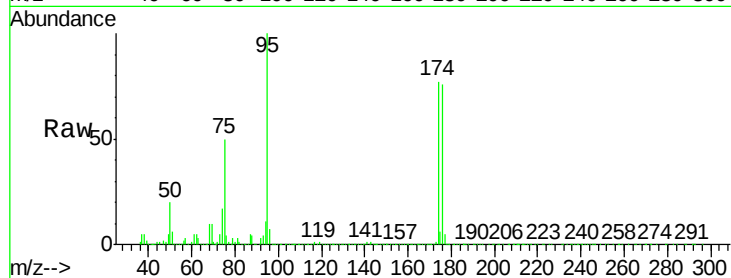
Tgt Ion: 75 Resp: 163840

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.1 34.6 51.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.208 ug/l

RT: 12.99 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VX014252.D

Acq: 24 Dec 2019 17:58

Tgt Ion: 75 Resp: 372

Ion Ratio Lower Upper

75 100

155 0.0 46.9 140.6#

157 0.0 60.8 182.4#

