

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122619\
 Data File : VX014272.D
 Acq On : 26 Dec 2019 16:21
 Operator : JC/SP
 Sample : K6405-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 994-MW-05-(17)

Quant Time: Dec 27 06:02:51 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	540190	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	830906	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	751127	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	326744	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	303560	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
35) Dibromofluoromethane	5.49	113	246914	48.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.76%	
50) Toluene-d8	8.71	98	988677	50.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.56%	
62) 4-Bromofluorobenzene	11.13	95	326971	45.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.98%	

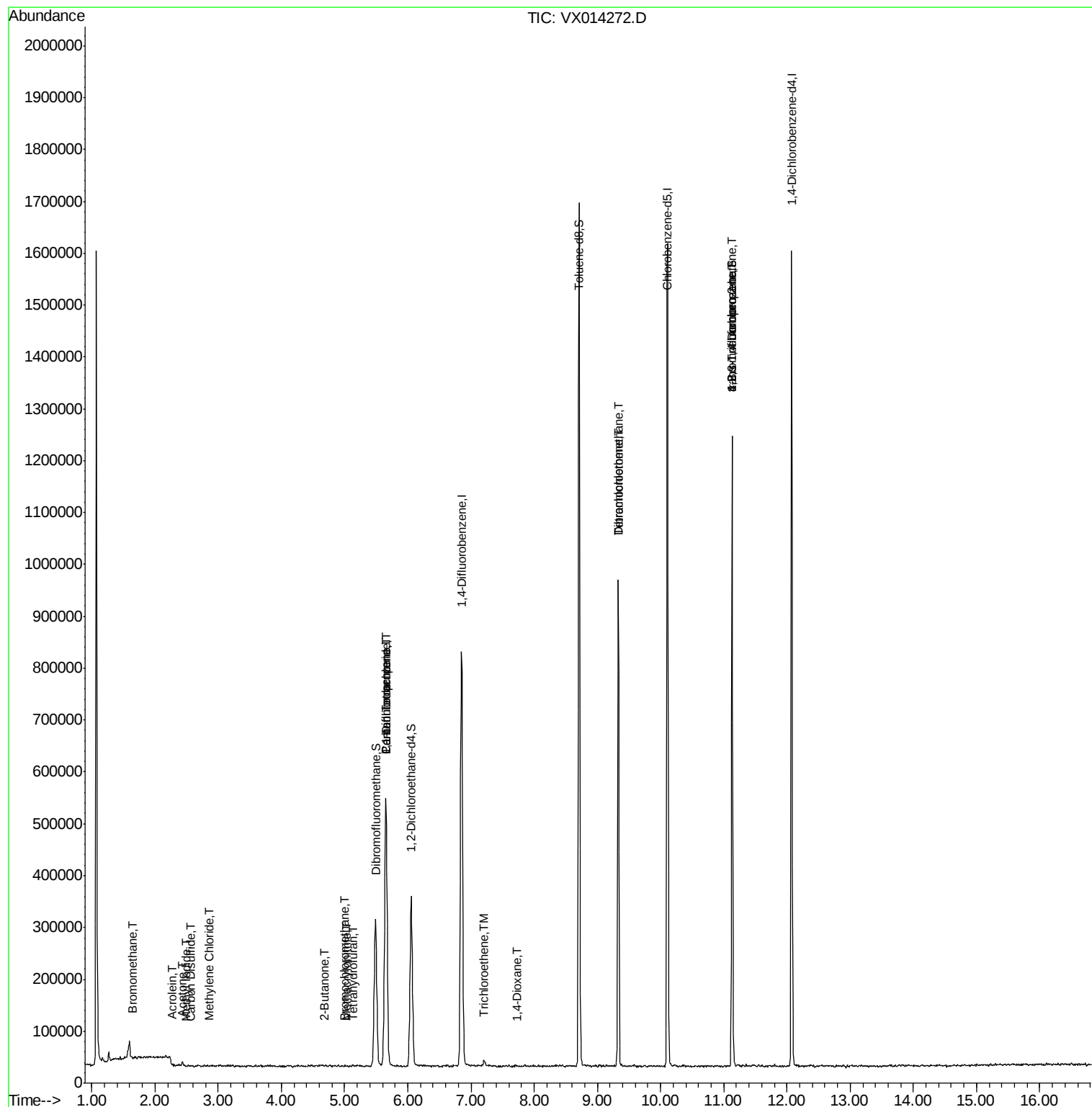
Target Compounds						Qvalue
5) Bromomethane	1.64	94	1334	0.275	ug/l #	73
10) Methyl Iodide	2.50	142	1177	2.786	ug/l #	77
13) Acrolein	2.28	56	332	0.438	ug/l	93
16) Acetone	2.43	43	10929	2.750	ug/l	93
17) Carbon Disulfide	2.56	76	785	0.804	ug/l #	12
20) Methylene Chloride	2.85	84	1316	0.210	ug/l #	43
25) 2-Butanone	4.69	43	2279	0.465	ug/l	92
28) Bromochloromethane	5.00	49	829	0.661	ug/l #	32
29) Tetrahydrofuran	5.14	42	1365	0.498	ug/l #	32
36) 1,1-Dichloropropene	5.65	75	36661	4.809	ug/l #	51
38) Carbon Tetrachloride	5.65	117	46200	6.652	ug/l #	16
41) Methacrylonitrile	5.03	41	1011	0.216	ug/l #	59
44) Trichloroethene	7.22	130	4907	0.757	ug/l	78
49) 1,4-Dioxane	7.73	88	352	2.535	ug/l #	57
60) Dibromochloromethane	9.33	129	163205	27.629	ug/l #	11
64) Tetrachloroethene	9.33	164	187044	28.142	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	160026	22.559	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	160026	63.674	ug/l #	12

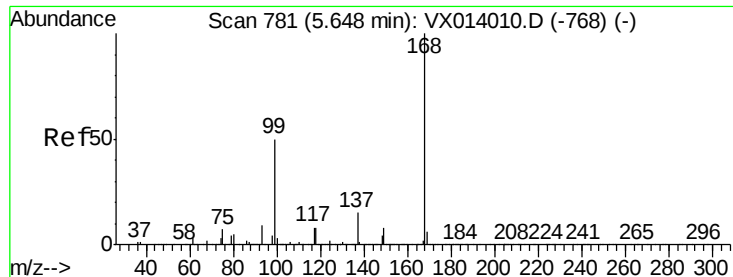
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VX014272.D

Acq: 26 Dec 2019 16:21

Instrument :

MSVOA_X

ClientSampleId :

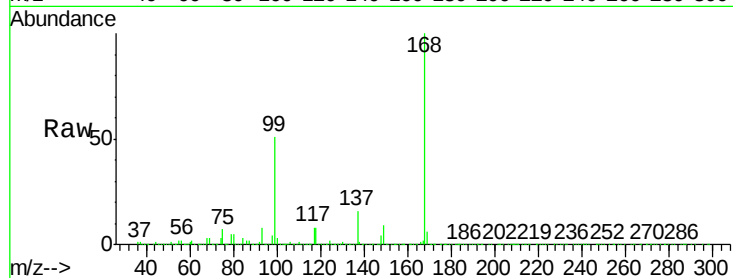
994-MW-05-(17)

Tgt Ion:168 Resp: 540190

Ion Ratio Lower Upper

168 100

99 50.4 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

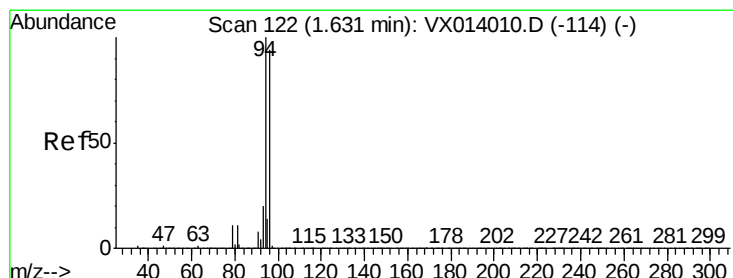
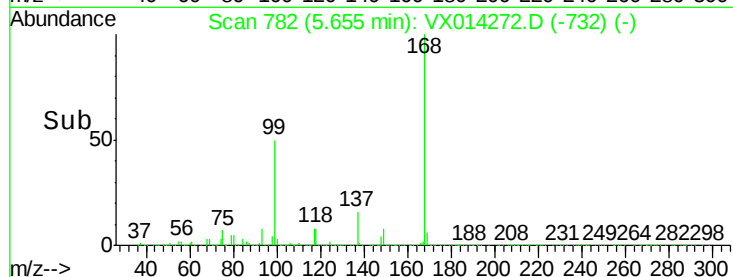
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.275 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014272.D

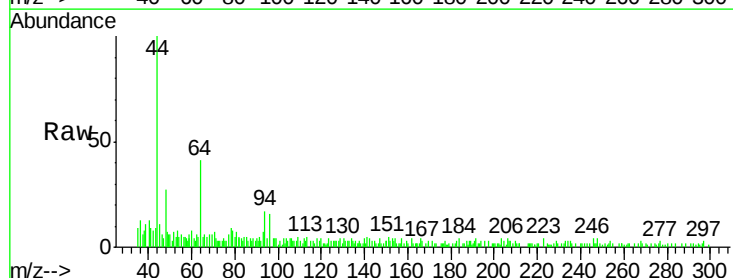
Acq: 26 Dec 2019 16:21

Tgt Ion: 94 Resp: 1334

Ion Ratio Lower Upper

94 100

96 68.2 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

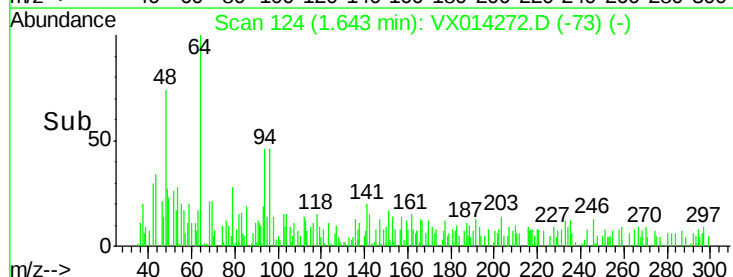
400

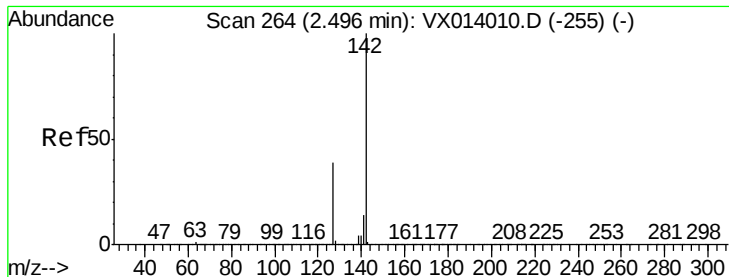
200

0

Time-->

1.60 1.65 1.70





#10

Methyl Iodide

Concen: 2.786 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

Instrument :

MSVOA_X

ClientSampleId :

994-MW-05-(17)

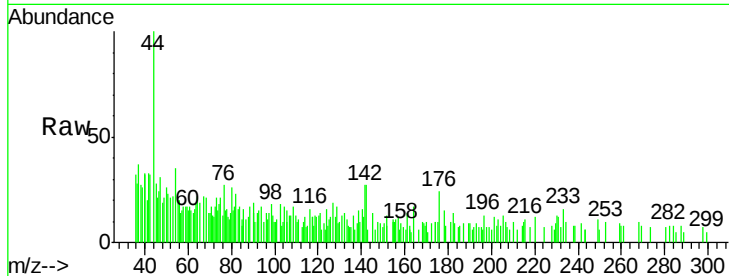
Tgt Ion: 142 Resp: 1177

Ion Ratio Lower Upper

142 100

127 27.9 31.6 47.4#

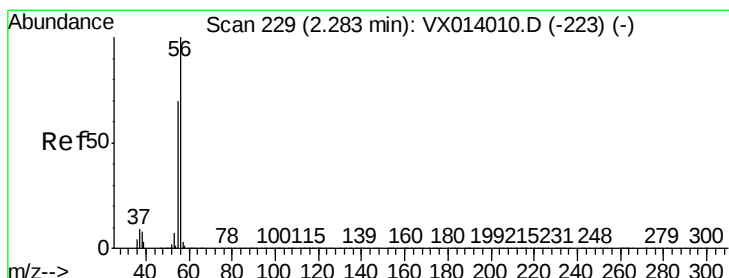
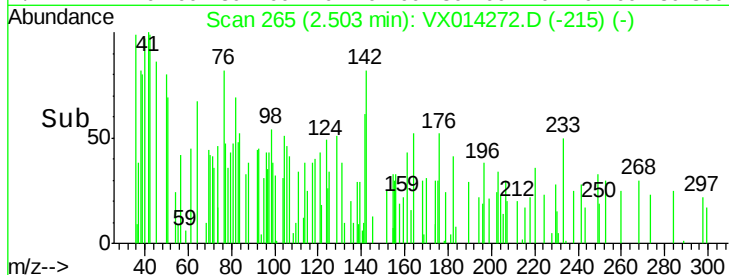
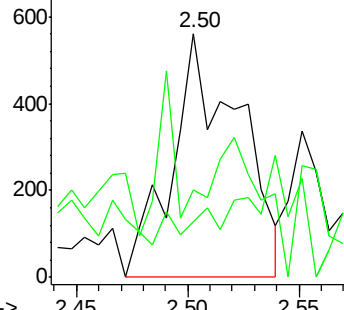
141 0.0 11.6 17.4#



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



#13

Acrolein

Concen: 0.438 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014272.D

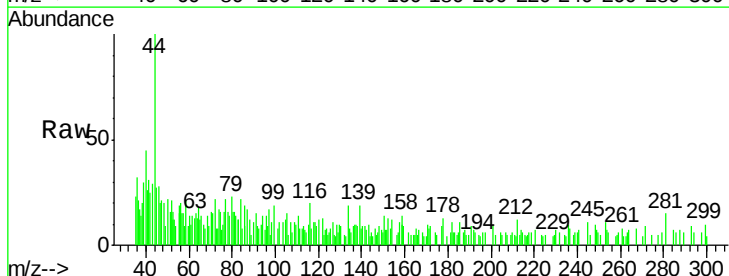
Acq: 26 Dec 2019 16:21

Tgt Ion: 56 Resp: 332

Ion Ratio Lower Upper

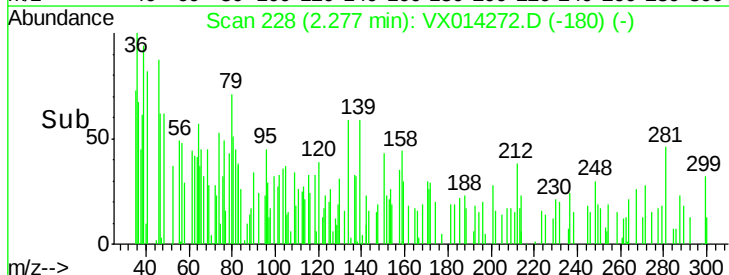
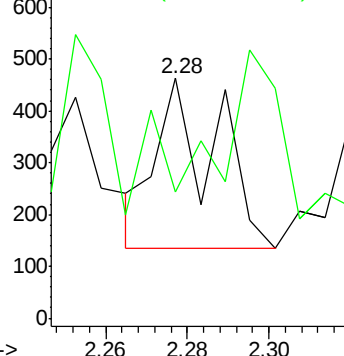
56 100

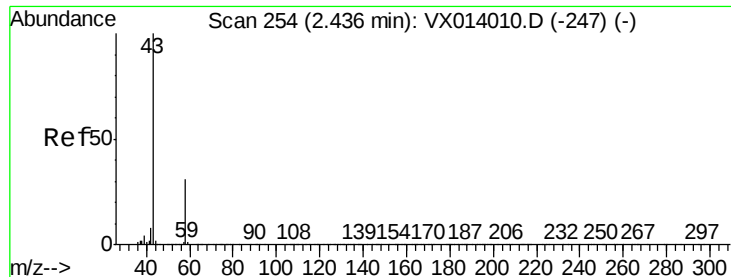
55 76.8 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.750 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

Instrument :

MSVOA_X

ClientSampleId :

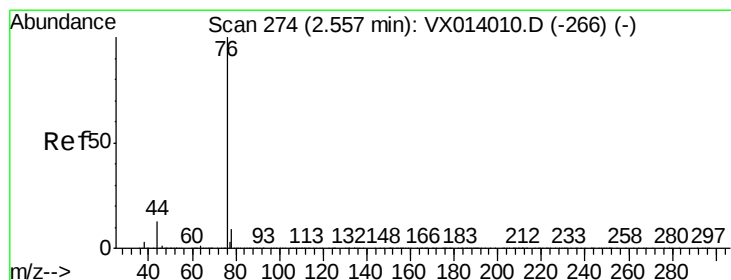
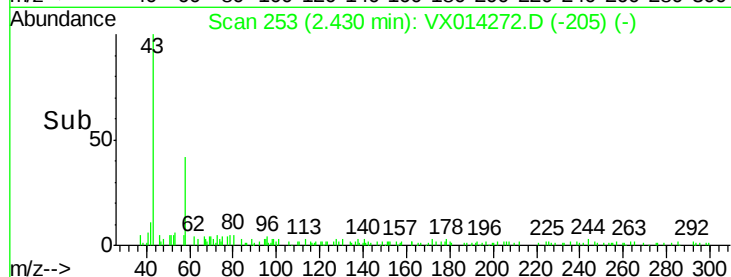
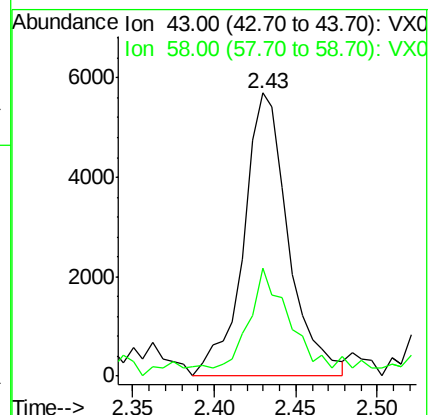
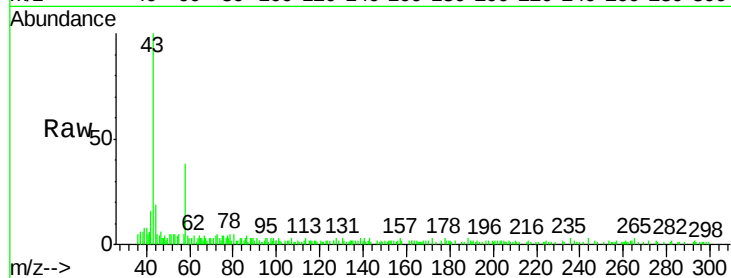
994-MW-05-(17)

Tgt Ion: 43 Resp: 10929

Ion Ratio Lower Upper

43 100

58 34.9 24.9 37.3



#17

Carbon Disulfide

Concen: 0.804 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014272.D

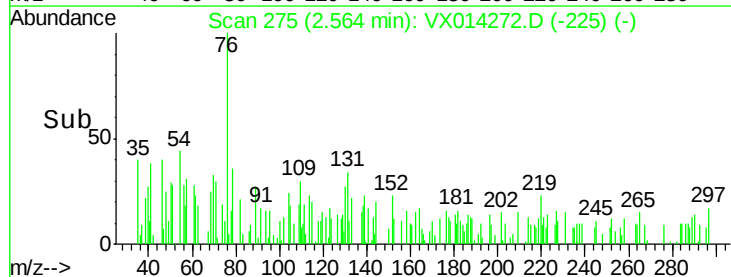
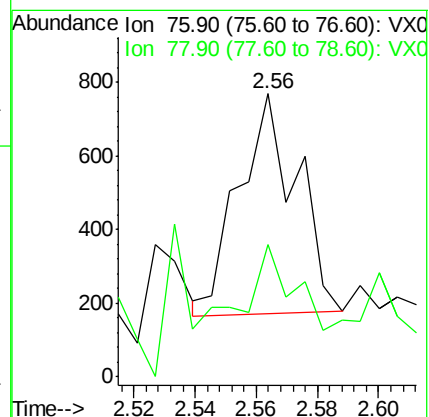
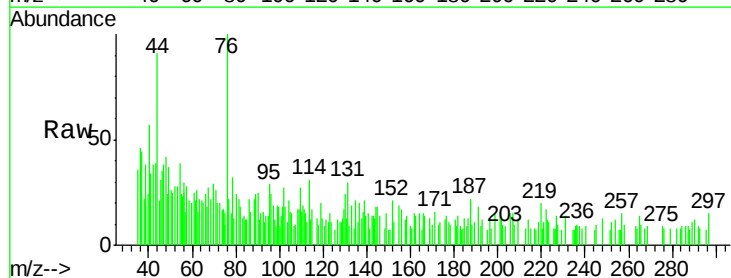
Acq: 26 Dec 2019 16:21

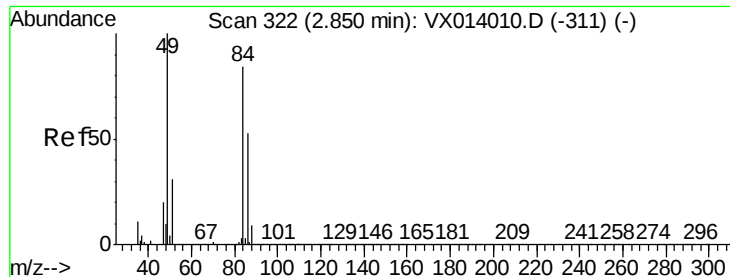
Tgt Ion: 76 Resp: 785

Ion Ratio Lower Upper

76 100

78 41.0 7.2 10.8#

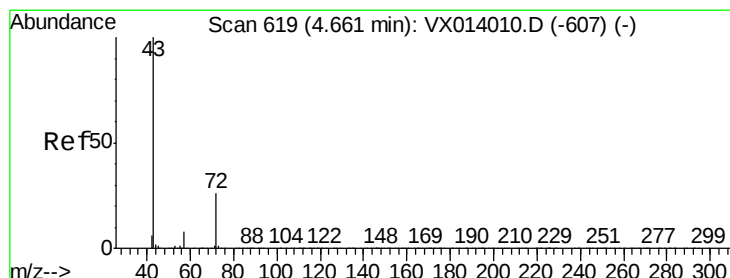
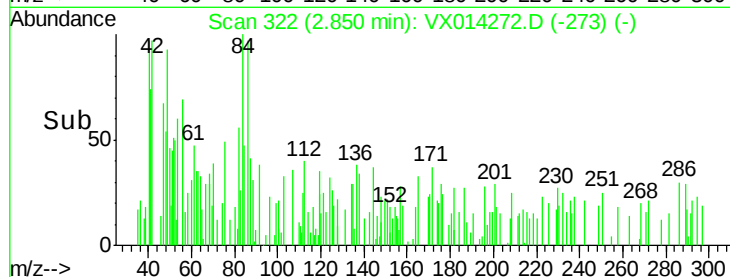
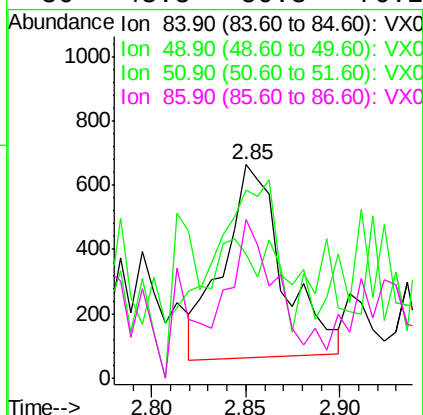
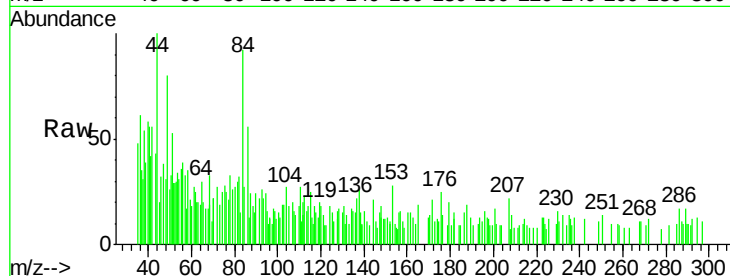




#20
Methylene Chloride
Concen: 0.210 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014272.D
Acq: 26 Dec 2019 16:21

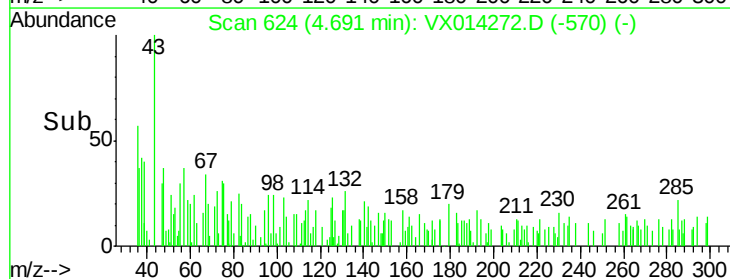
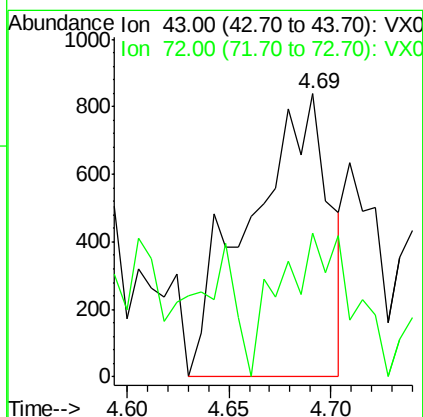
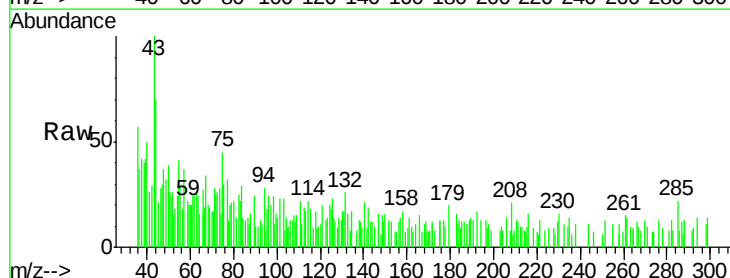
Instrument :
MSVOA_X
ClientSampleId :
994-MW-05-(17)

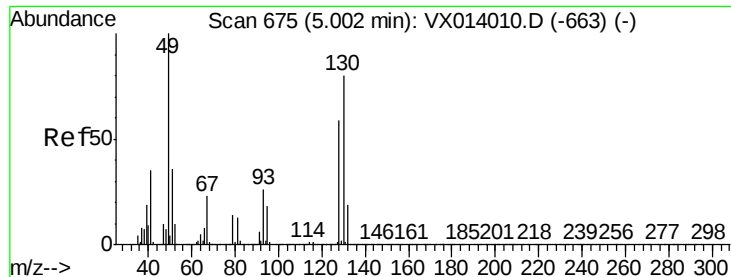
Tgt Ion:	84	Resp:	1316
Ion	Ratio	Lower	Upper
84	100		
49	27.6	95.8	143.6#
51	53.7	29.8	44.8#
86	43.8	50.8	76.2#



#25
2-Butanone
Concen: 0.465 ug/l
RT: 4.69 min Scan# 624
Delta R.T. 0.03 min
Lab File: VX014272.D
Acq: 26 Dec 2019 16:21

Tgt Ion:	43	Resp:	2279
Ion	Ratio	Lower	Upper
43	100		
72	22.0	21.0	31.4





#28

Bromochloromethane

Concen: 0.661 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

Instrument :

MSVOA_X

ClientSampleId :

994-MW-05-(17)

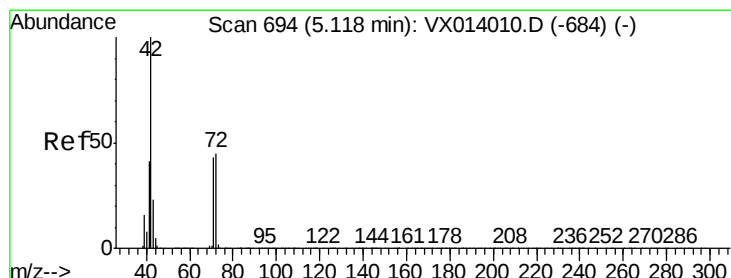
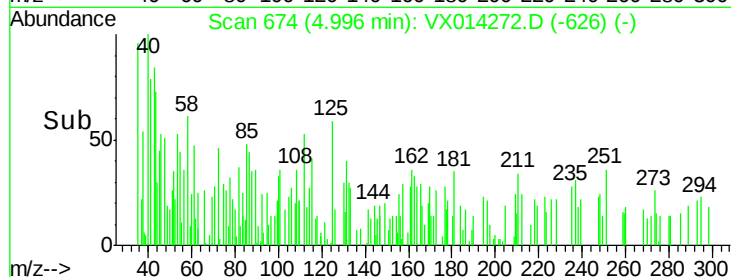
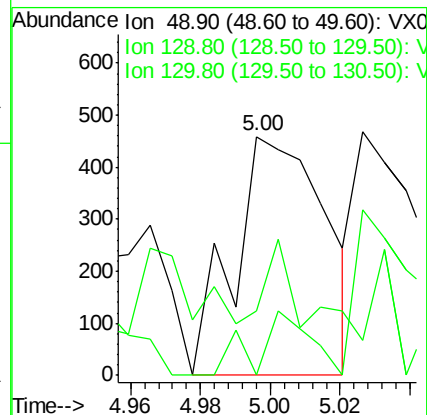
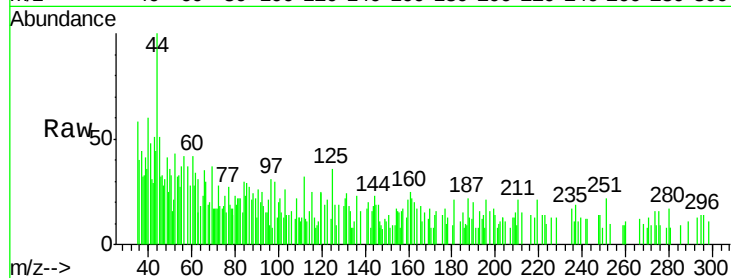
Tgt Ion: 49 Resp: 829

Ion Ratio Lower Upper

49 100

129 15.7 0.0 5.0#

130 19.5 64.6 97.0#



#29

Tetrahydrofuran

Concen: 0.498 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

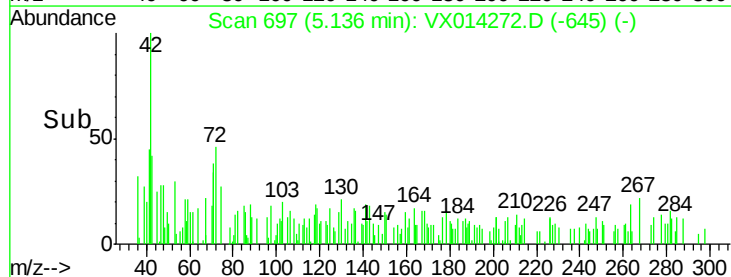
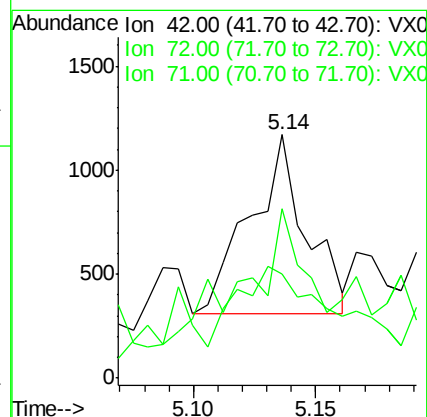
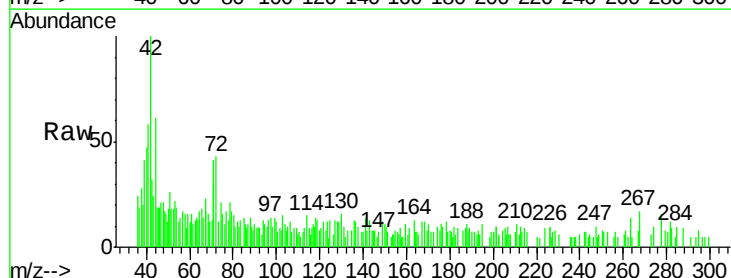
Tgt Ion: 42 Resp: 1365

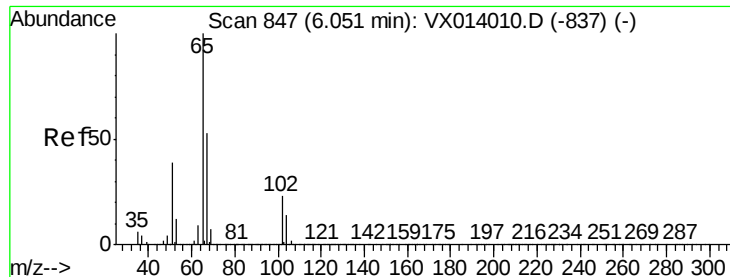
Ion Ratio Lower Upper

42 100

72 89.2 35.8 53.8#

71 84.9 33.6 50.4#





#33

1,2-Dichloroethane-d4

Concen: 49.583 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

Instrument :

MSVOA_X

ClientSampleId :

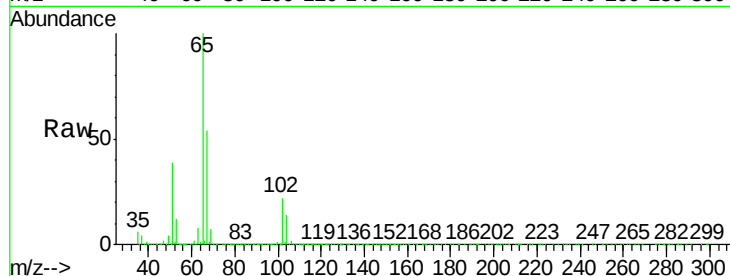
994-MW-05-(17)

Tgt Ion: 65 Resp: 303560

Ion Ratio Lower Upper

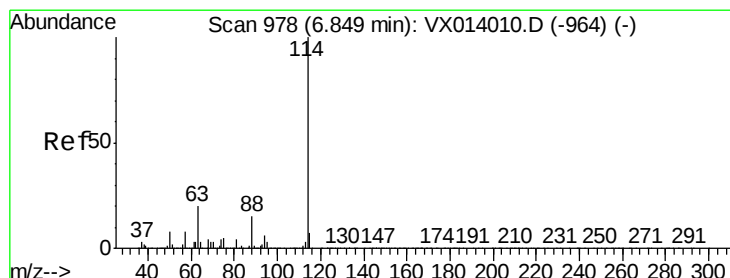
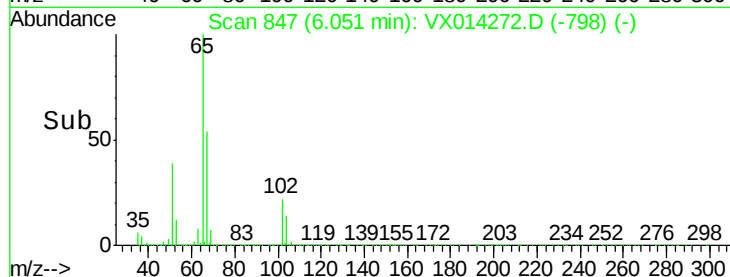
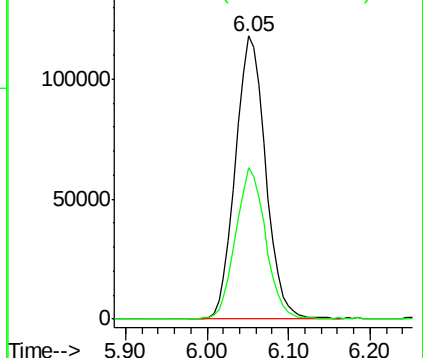
65 100

67 52.9 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: VX014272.D

Acq: 26 Dec 2019 16:21

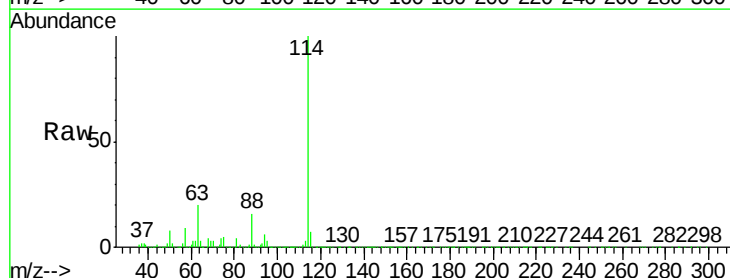
Tgt Ion: 114 Resp: 830906

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.8

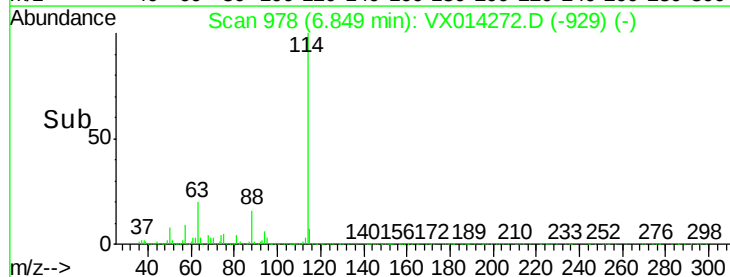
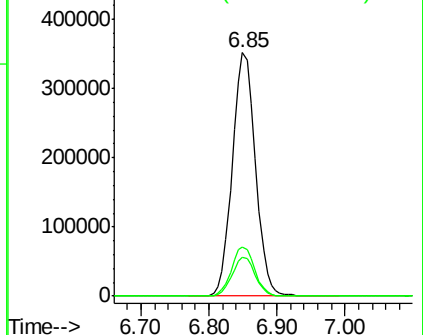
88 15.9 0.0 30.4

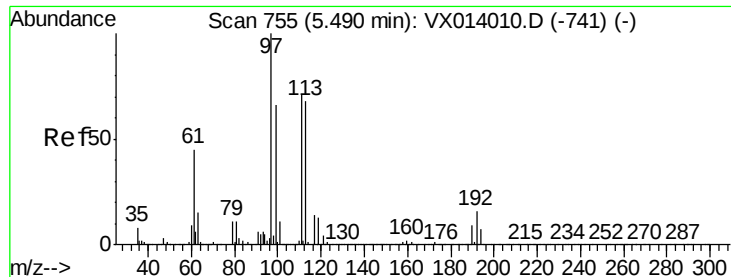


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.884 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

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994-MW-05-(17)

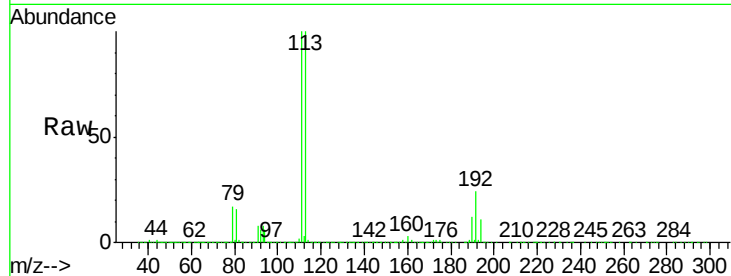
Tgt Ion: 113 Resp: 246914

Ion Ratio Lower Upper

113 100

111 102.4 82.0 123.0

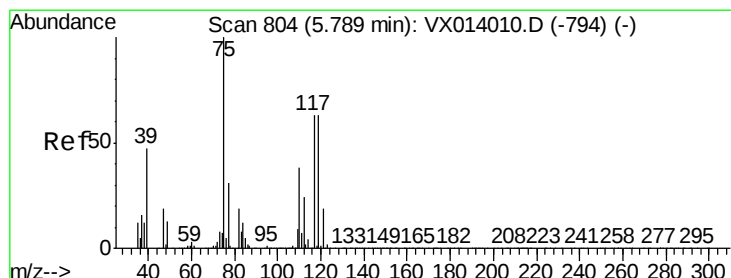
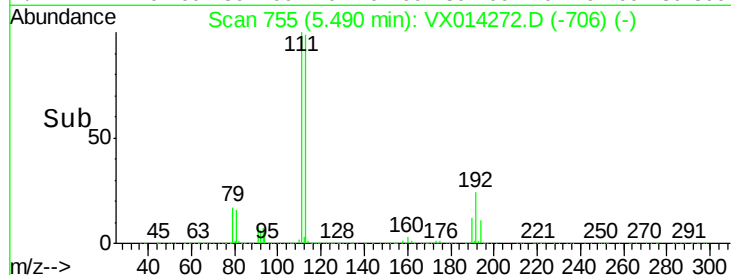
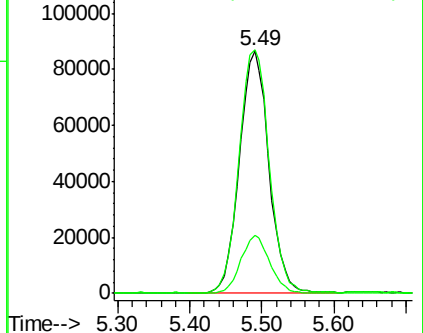
192 23.3 19.3 28.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.809 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

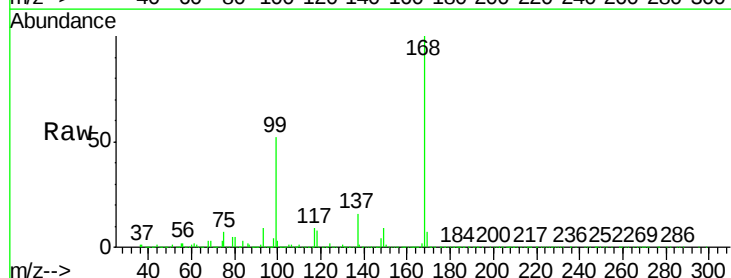
Tgt Ion: 75 Resp: 36661

Ion Ratio Lower Upper

75 100

110 10.9 18.3 54.9#

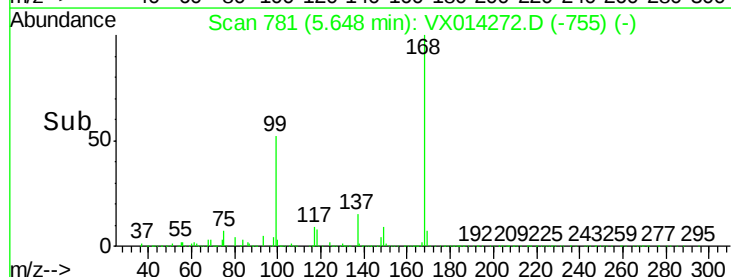
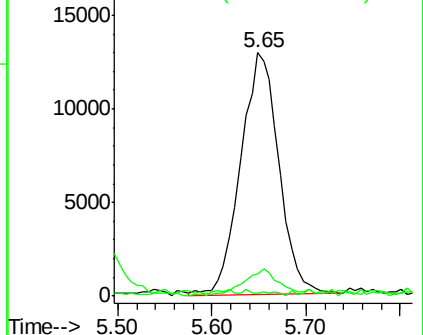
77 0.3 24.8 37.2#

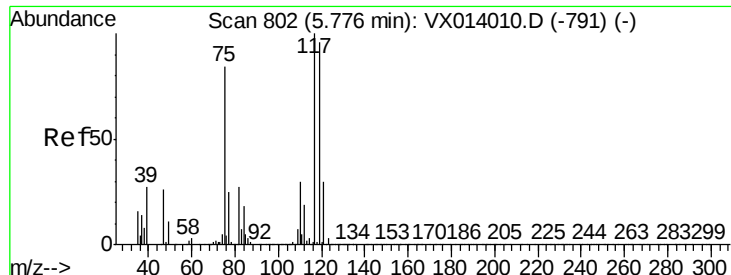


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.652 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

Instrument :

MSVOA_X

ClientSampleId :

994-MW-05-(17)

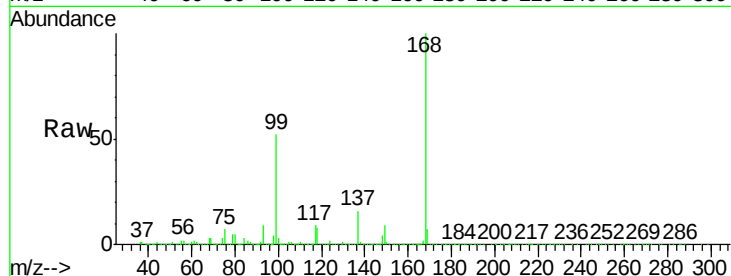
Tgt Ion: 117 Resp: 46200

Ion Ratio Lower Upper

117 100

119 4.1 76.2 114.4#

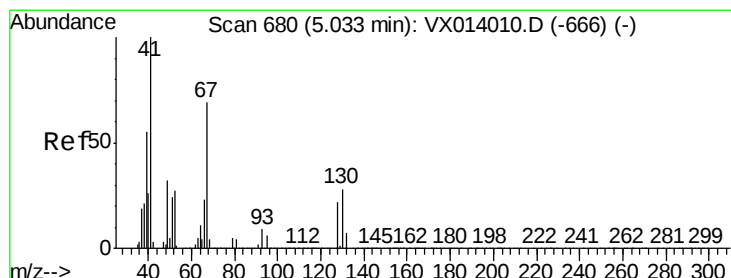
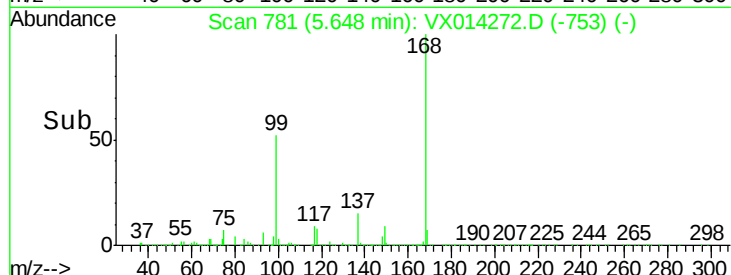
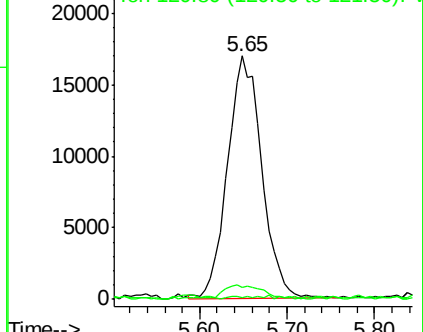
121 0.2 23.6 35.4#



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



#41

Methacrylonitrile

Concen: 0.216 ug/l

RT: 5.03 min Scan# 680

Delta R.T. 0.00 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

Tgt Ion: 41 Resp: 1011

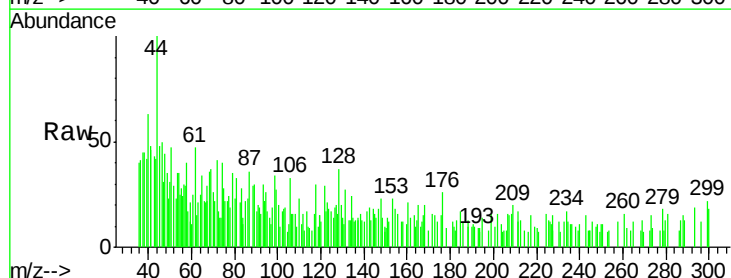
Ion Ratio Lower Upper

41 100

39 90.6 44.5 66.7#

67 46.5 57.4 86.0#

52 0.0 23.0 34.4#

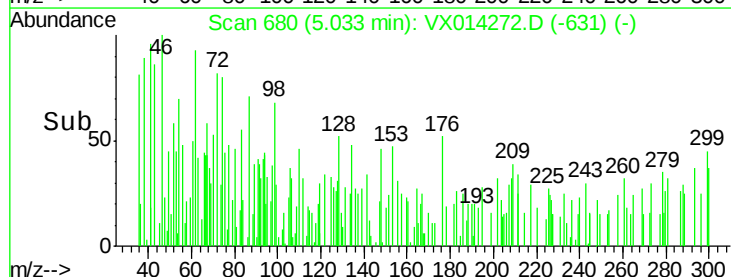
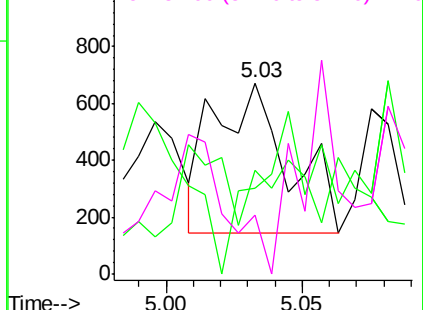


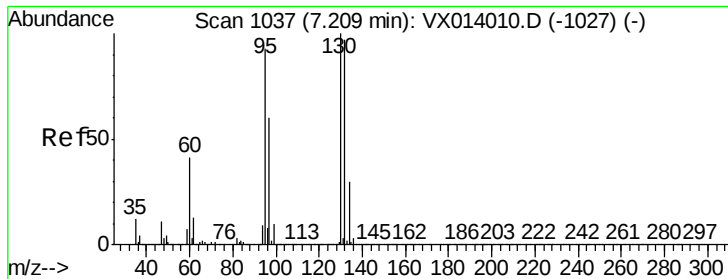
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#44

Trichloroethene

Concen: 0.757 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

Instrument :

MSVOA_X

ClientSampleId :

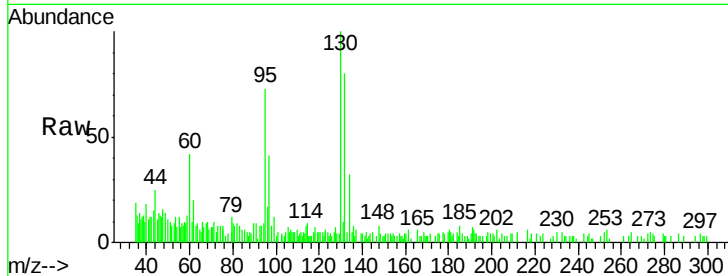
994-MW-05-(17)

Tgt Ion:130 Resp: 4907

Ion Ratio Lower Upper

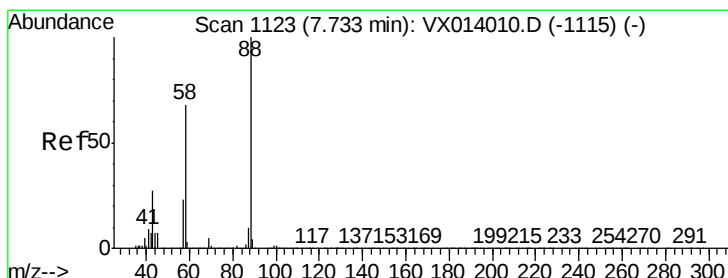
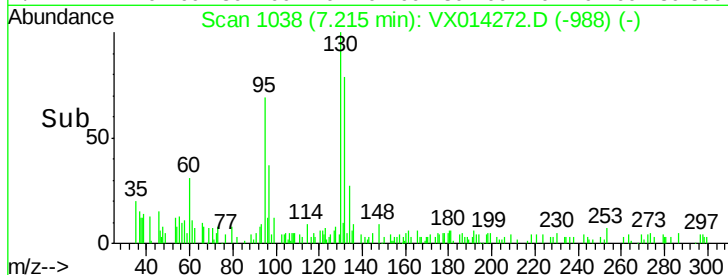
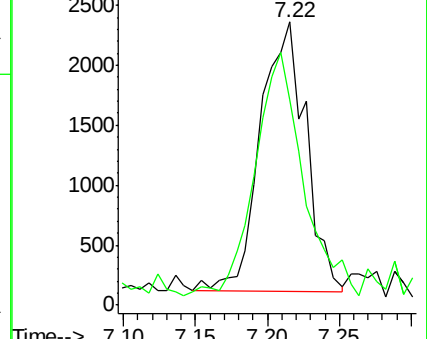
130 100

95 71.5 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 2.535 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

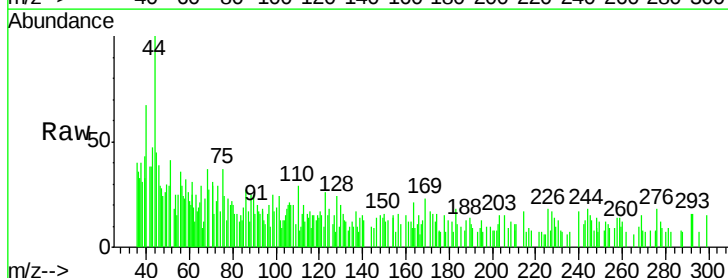
Tgt Ion: 88 Resp: 352

Ion Ratio Lower Upper

88 100

43 73.0 26.5 39.7#

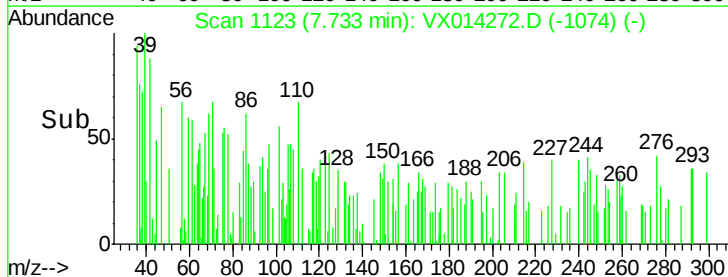
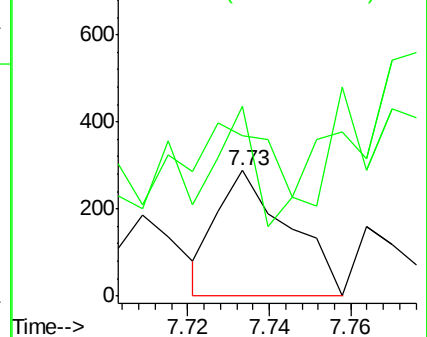
58 96.0 56.8 85.2#

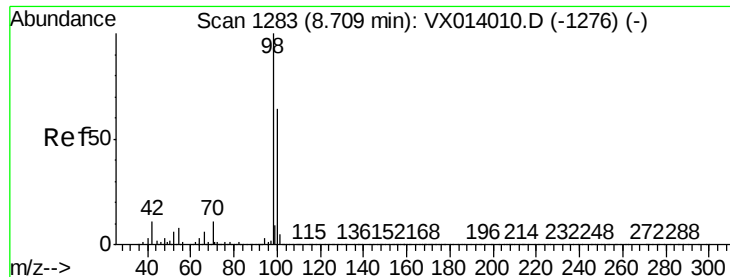


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.277 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

Instrument :

MSVOA_X

ClientSampleId :

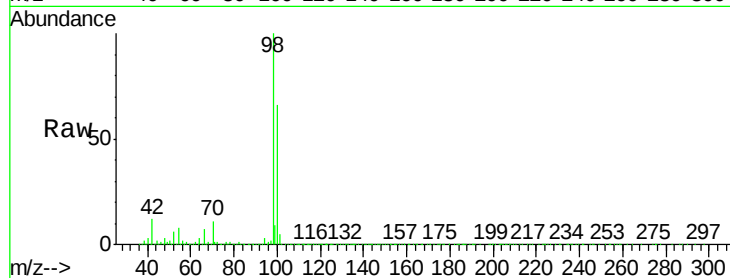
994-MW-05-(17)

Tgt Ion: 98 Resp: 988677

Ion Ratio Lower Upper

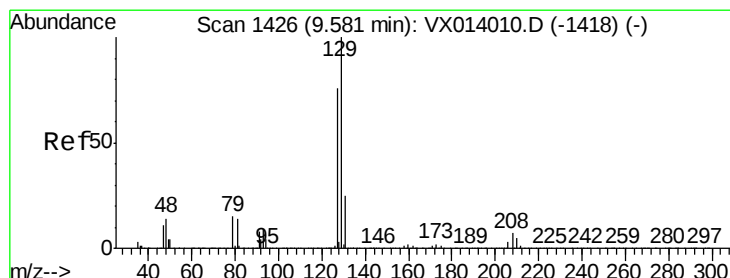
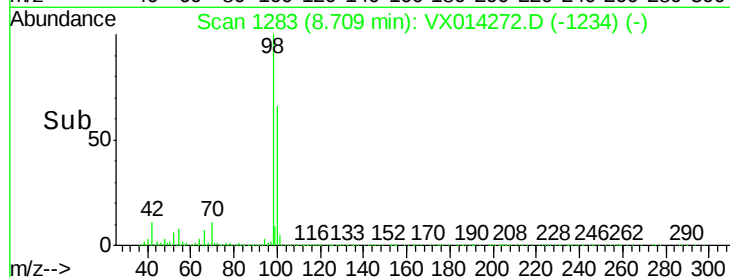
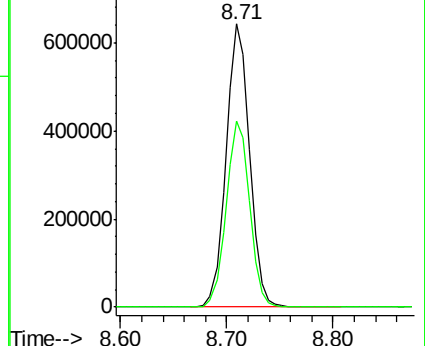
98 100

100 65.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 27.629 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX014272.D

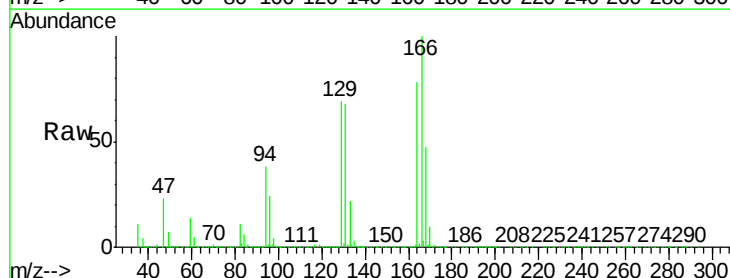
Acq: 26 Dec 2019 16:21

Tgt Ion: 129 Resp: 163205

Ion Ratio Lower Upper

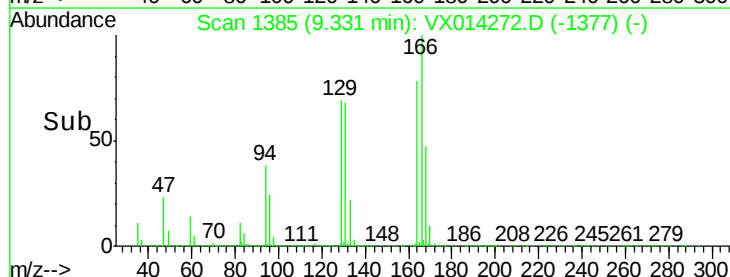
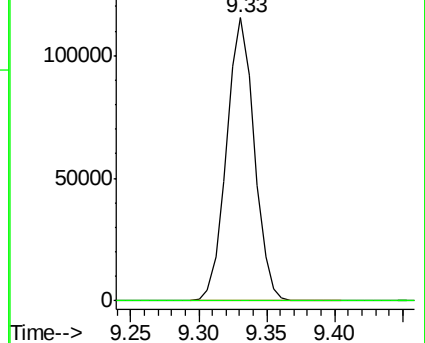
129 100

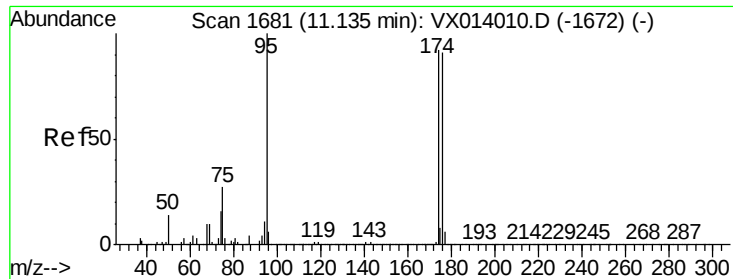
127 0.3 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 45.486 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

Instrument :

MSVOA_X

ClientSampleId :

994-MW-05-(17)

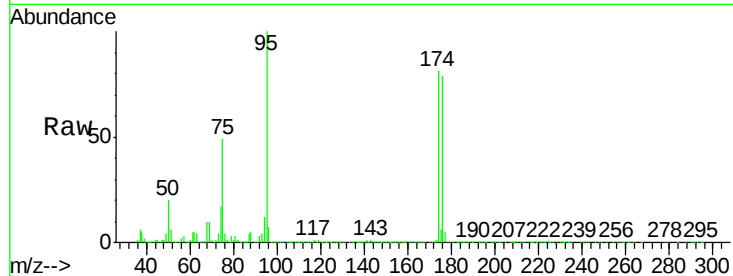
Tgt Ion: 95 Resp: 326971

Ion Ratio Lower Upper

95 100

174 88.5 0.0 175.8

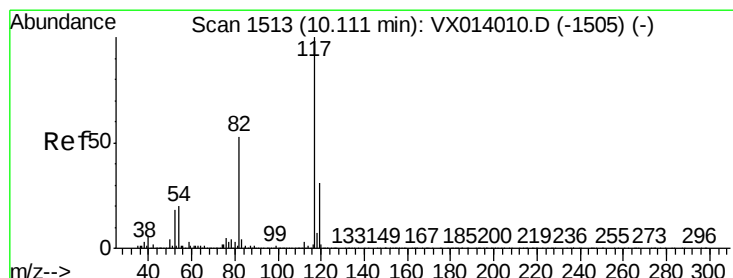
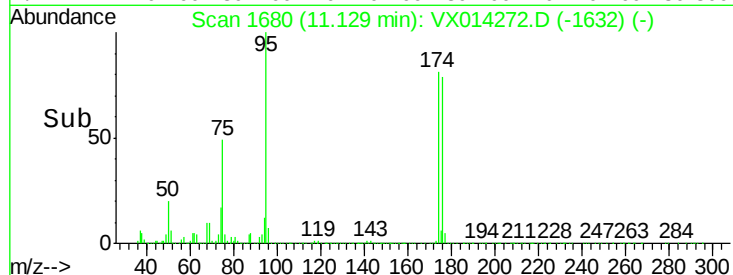
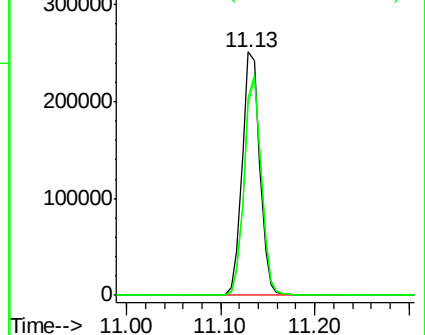
176 86.8 0.0 173.0



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: VX014272.D

Acq: 26 Dec 2019 16:21

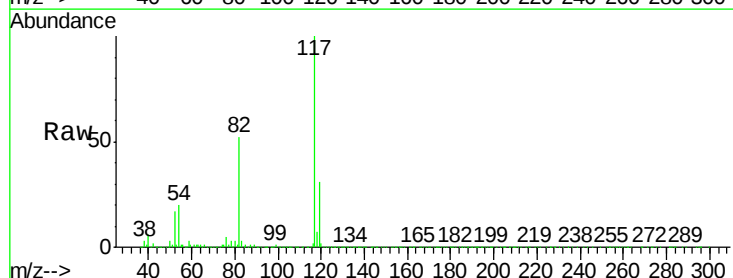
Tgt Ion: 117 Resp: 751127

Ion Ratio Lower Upper

117 100

82 52.2 42.2 63.4

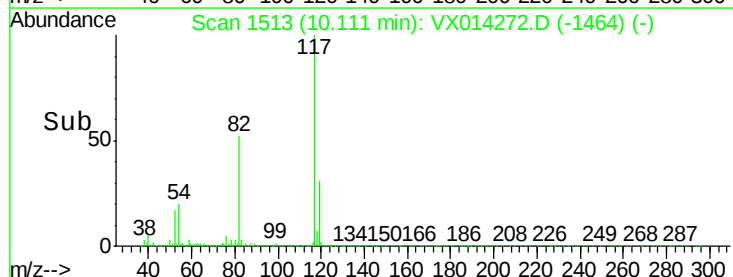
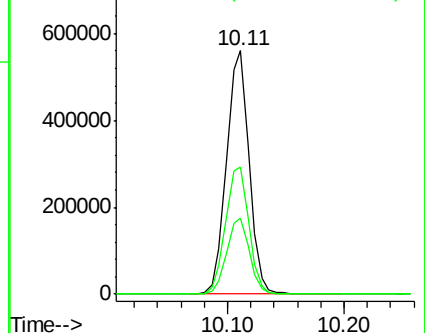
119 31.0 25.1 37.7

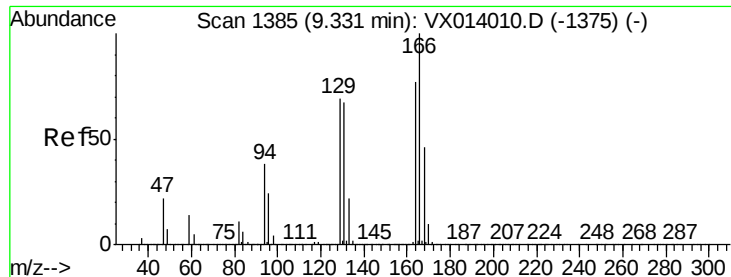


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 28.142 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

Instrument :

MSVOA_X

ClientSampleId :

994-MW-05-(17)

Tgt Ion:164 Resp: 187044

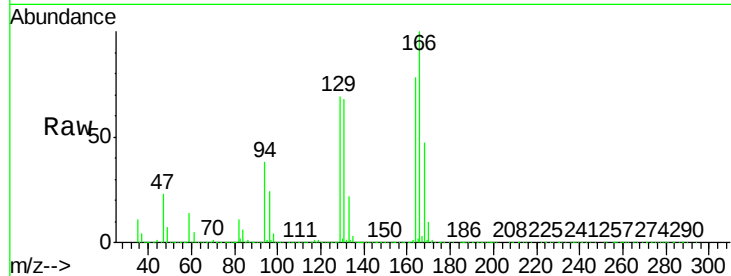
Ion Ratio Lower Upper

164 100

166 127.9 104.0 156.0

129 88.8 72.2 108.4

131 86.7 69.6 104.4

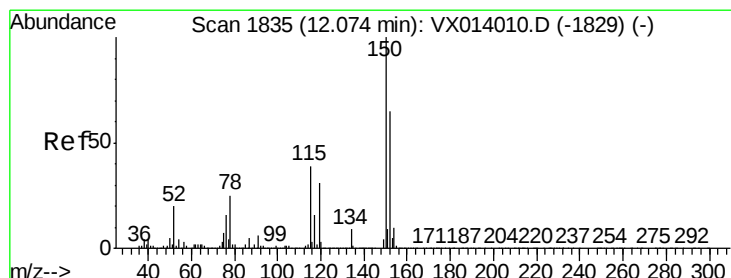
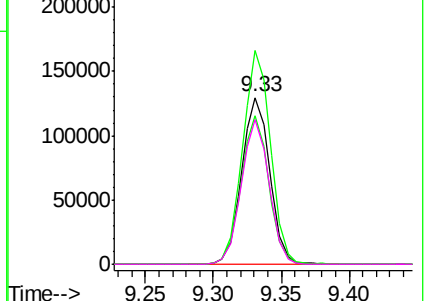
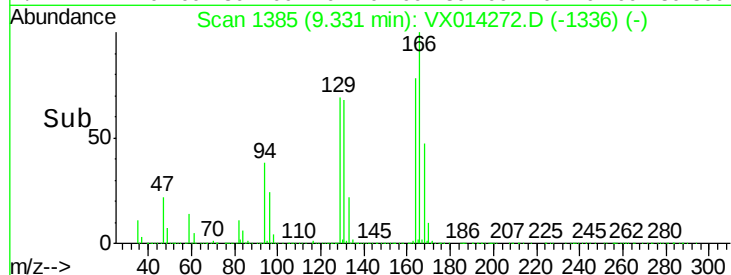


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX014272.D

Acq: 26 Dec 2019 16:21

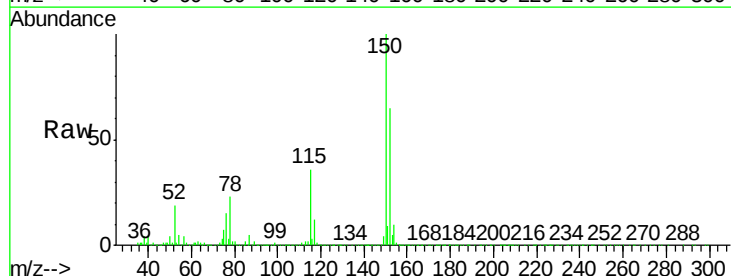
Tgt Ion:152 Resp: 326744

Ion Ratio Lower Upper

152 100

115 54.8 38.3 114.9

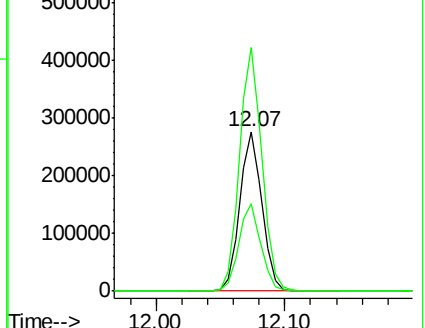
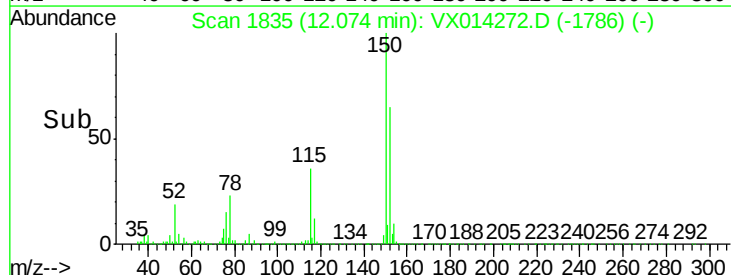
150 155.0 0.0 345.4

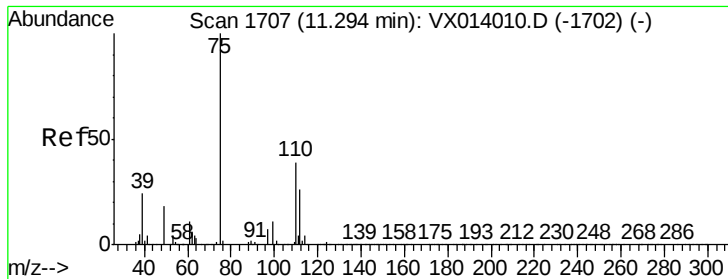


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.559 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

Instrument :

MSVOA_X

ClientSampled :

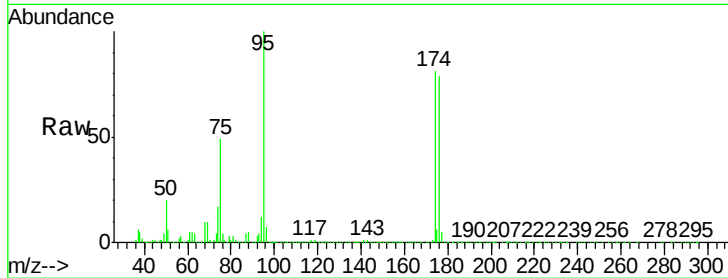
994-MW-05-(17)

Tgt Ion: 75 Resp: 160026

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

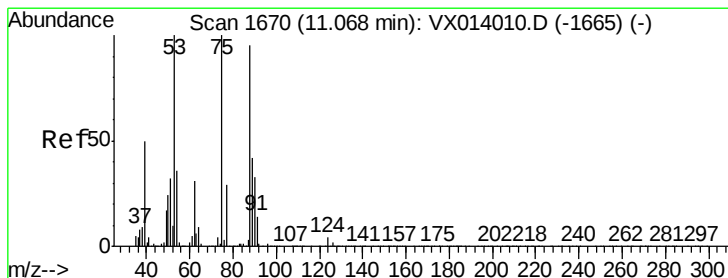
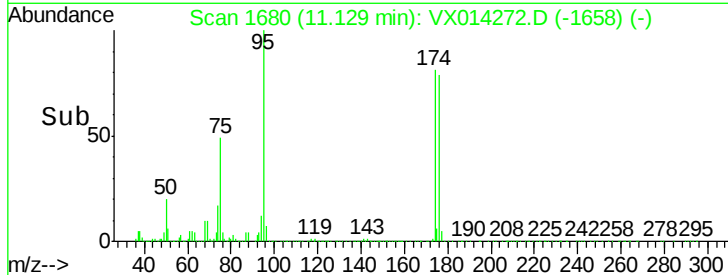
11.13

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 63.674 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014272.D

Acq: 26 Dec 2019 16:21

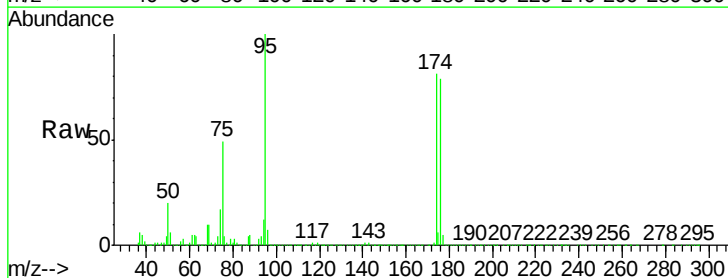
Tgt Ion: 75 Resp: 160026

Ion Ratio Lower Upper

75 100

53 0.5 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-->

