

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122619\
 Data File : VX014271.D
 Acq On : 26 Dec 2019 15:58
 Operator : JC/SP
 Sample : K6405-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 992-MW-02-(23.8)

Quant Time: Dec 27 06:02:10 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	541143	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	834985	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	744345	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	328519	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	297402	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
35) Dibromofluoromethane	5.49	113	245585	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	
50) Toluene-d8	8.71	98	990079	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
62) 4-Bromofluorobenzene	11.13	95	328897	45.53	ug/l	0.00
Spiked Amount			Recovery	=	91.06%	

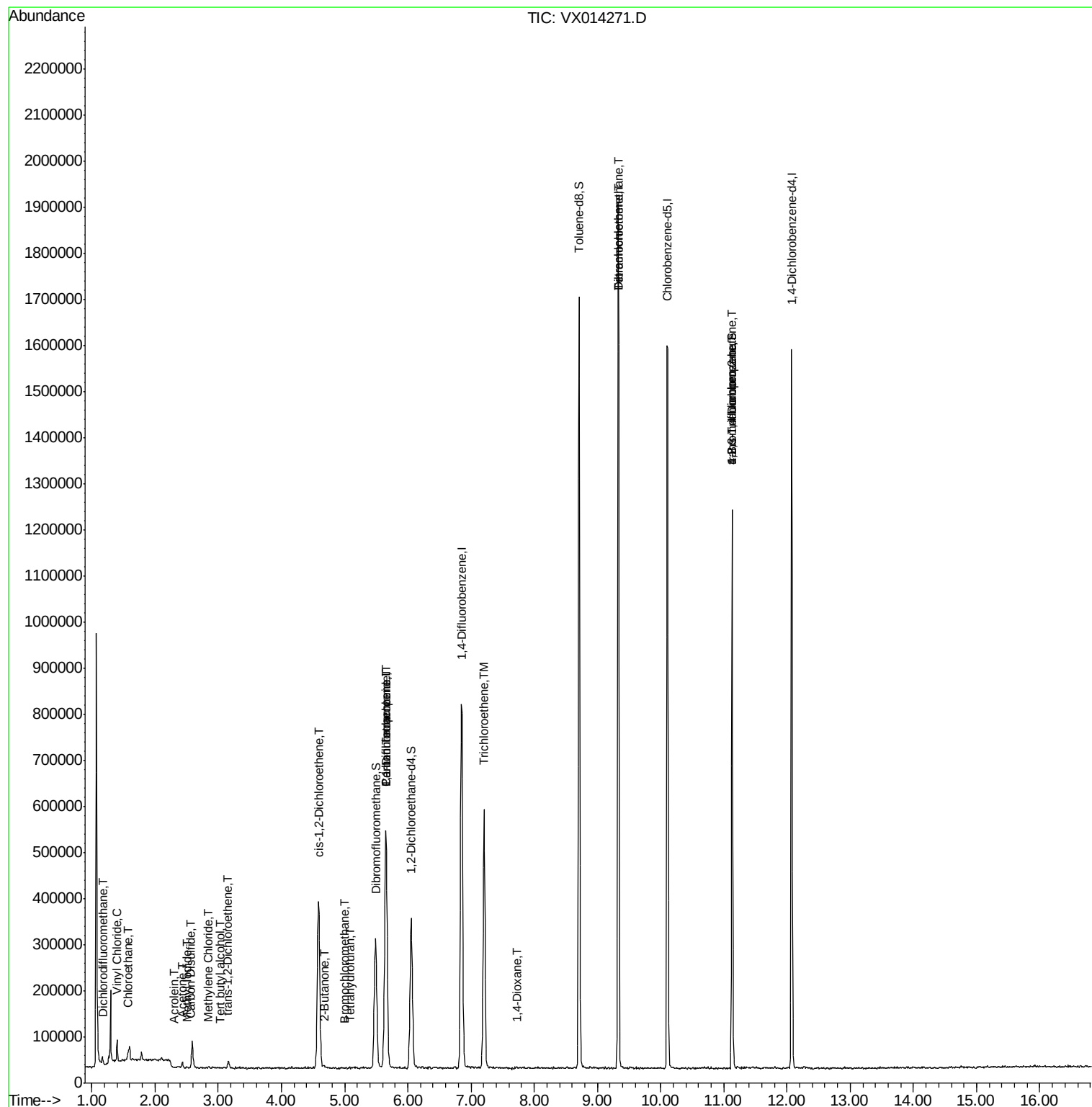
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1136	0.235	ug/l #	46
4) Vinyl Chloride	1.40	62	11063	1.614	ug/l	94
6) Chloroethane	1.57	64	3757	0.888	ug/l #	47
10) Methyl Iodide	2.50	142	801	2.733	ug/l #	67
11) Tert butyl alcohol	3.03	59	2620	1.977	ug/l #	72
13) Acrolein	2.30	56	585	0.771	ug/l #	64
16) Acetone	2.43	43	12865	3.231	ug/l	95
17) Carbon Disulfide	2.56	76	1266	0.836	ug/l #	77
20) Methylene Chloride	2.85	84	1574	0.251	ug/l #	84
21) trans-1,2-Dichloroethene	3.15	96	7077	1.234	ug/l	90
25) 2-Butanone	4.68	43	1238	0.252	ug/l #	86
27) cis-1,2-Dichloroethene	4.59	96	233473	35.998	ug/l	90
28) Bromochloromethane	5.01	49	192	0.502	ug/l #	10
29) Tetrahydrofuran	5.09	42	760	0.277	ug/l	90
36) 1,1-Dichloropropene	5.65	75	37250	4.862	ug/l #	46
38) Carbon Tetrachloride	5.65	117	47498	6.805	ug/l #	17
44) Trichloroethene	7.21	130	223324	34.299	ug/l	100
49) 1,4-Dioxane	7.74	88	251	1.799	ug/l #	1
60) Dibromochloromethane	9.33	129	332231	55.969	ug/l #	11
64) Tetrachloroethene	9.33	164	378988	57.540	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	160089	22.446	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	160089	63.355	ug/l #	12

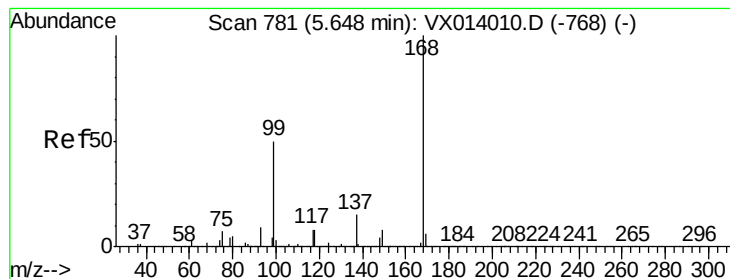
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
992-MW-02-(23.8)

Quant Time: Dec 27 06:02:10 2019
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# 782

Delta R.T. 0.01 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

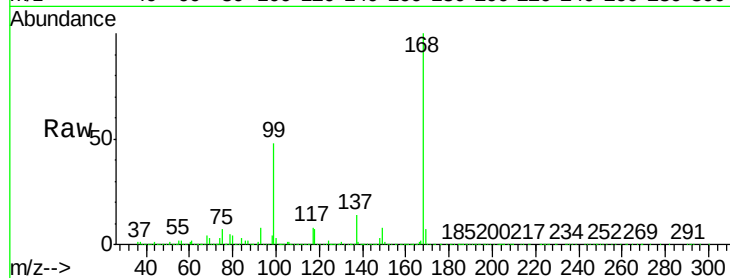
992-MW-02-(23.8)

Tgt Ion:168 Resp: 541143

Ion Ratio Lower Upper

168 100

99 48.0 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

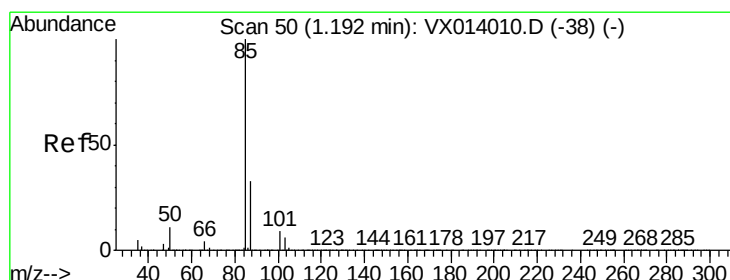
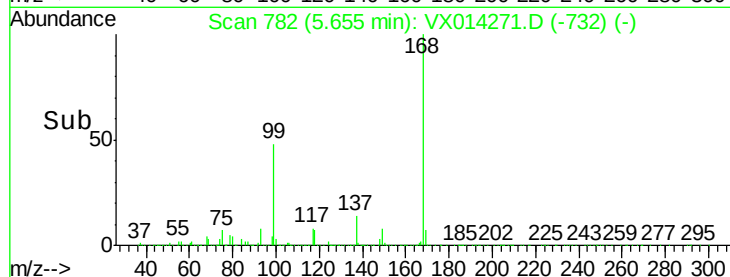
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.235 ug/l

RT: 1.19 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX014271.D

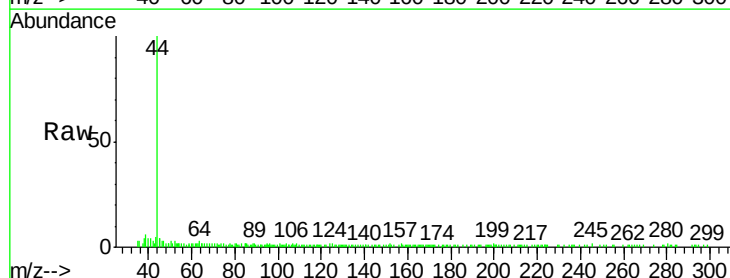
Acq: 26 Dec 2019 15:58

Tgt Ion: 85 Resp: 1136

Ion Ratio Lower Upper

85 100

87 2.5 16.4 49.2#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

800

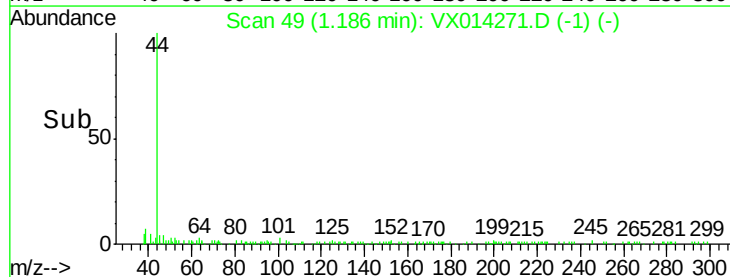
600

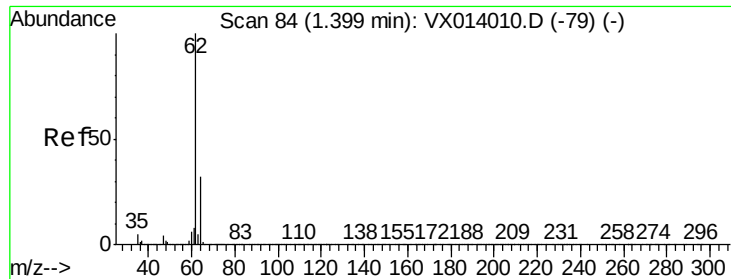
400

200

0

Time--> 1.10 1.15 1.20





#4

Vinyl Chloride

Concen: 1.614 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

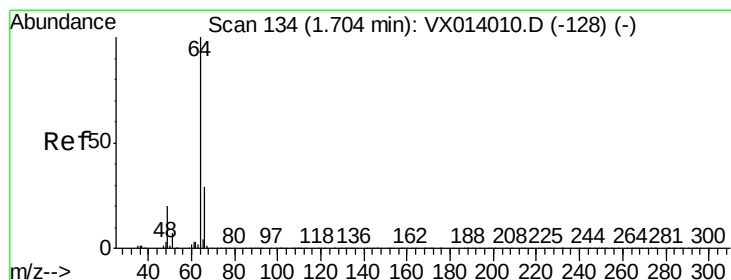
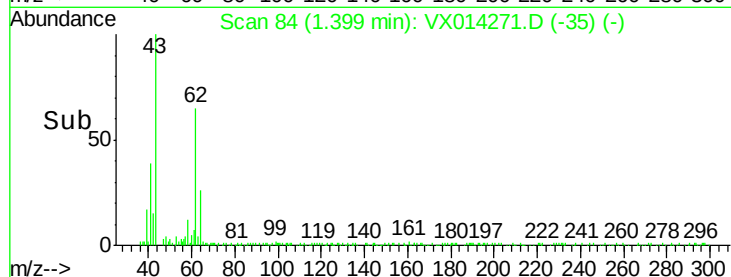
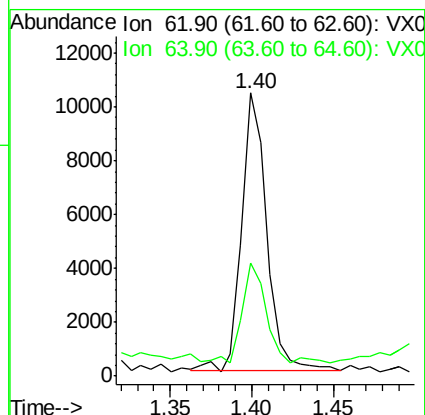
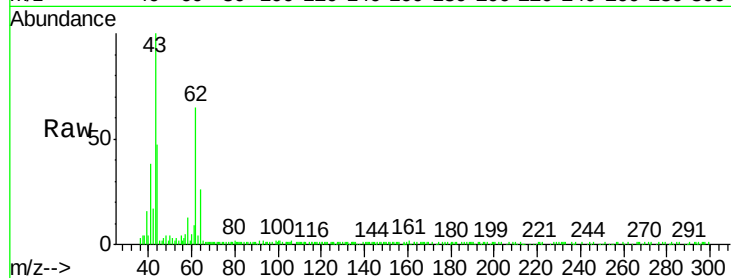
992-MW-02-(23.8)

Tgt Ion: 62 Resp: 11063

Ion Ratio Lower Upper

62 100

64 35.3 25.7 38.5



#6

Chloroethane

Concen: 0.888 ug/l

RT: 1.57 min Scan# 112

Delta R.T. -0.13 min

Lab File: VX014271.D

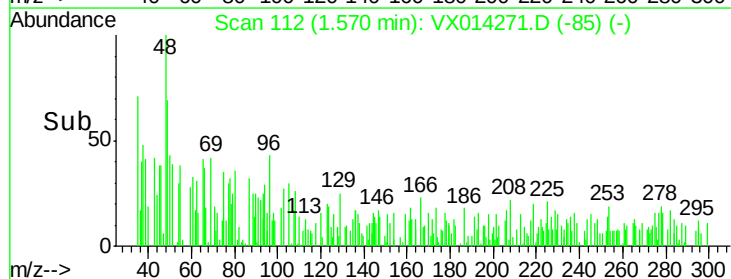
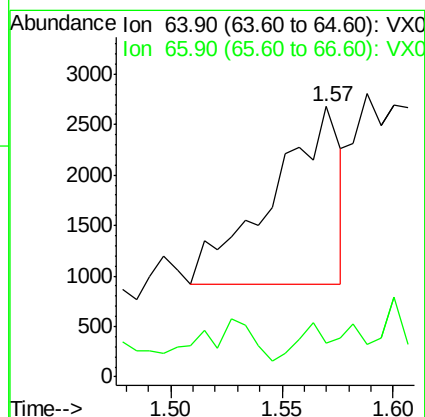
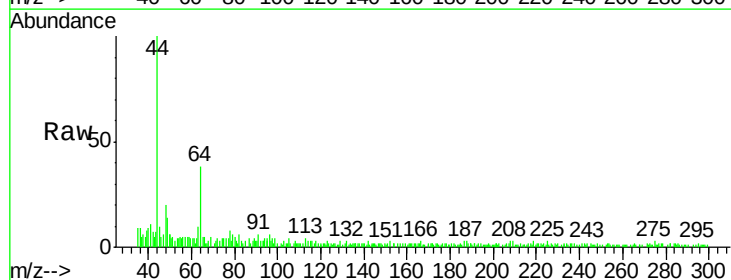
Acq: 26 Dec 2019 15:58

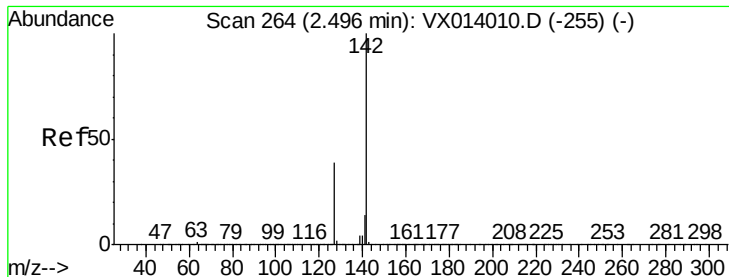
Tgt Ion: 64 Resp: 3757

Ion Ratio Lower Upper

64 100

66 1.1 23.4 35.2#





#10

Methyl Iodide

Concen: 2.733 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

992-MW-02-(23.8)

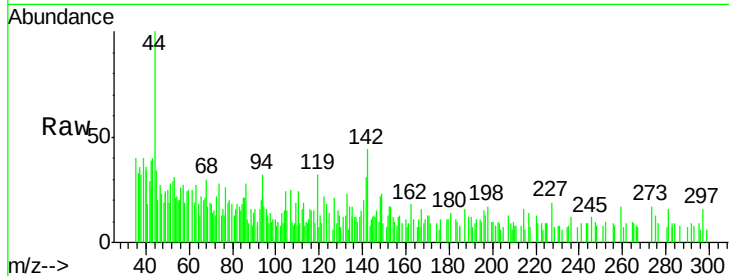
Tgt Ion: 142 Resp: 801

Ion Ratio Lower Upper

142 100

127 59.4 31.6 47.4#

141 0.0 11.6 17.4#



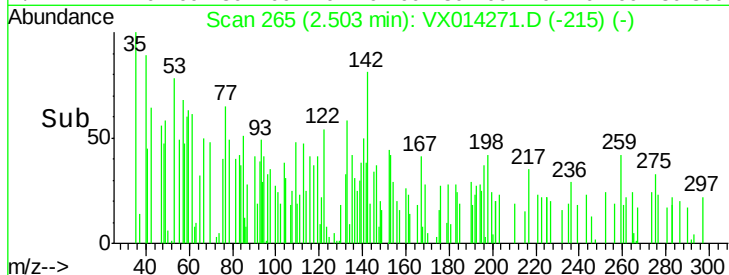
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

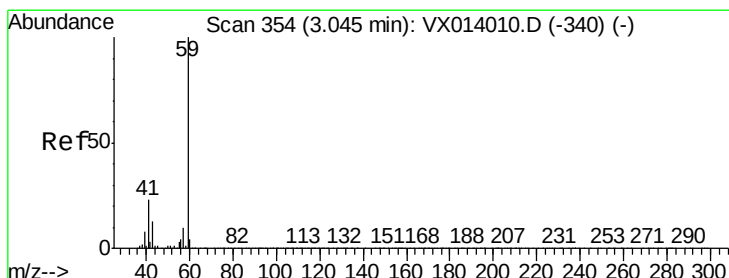
Ion 140.80 (140.50 to 141.50): V

2.50

2.55



Time-->



#11

Tert butyl alcohol

Concen: 1.977 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.02 min

Lab File: VX014271.D

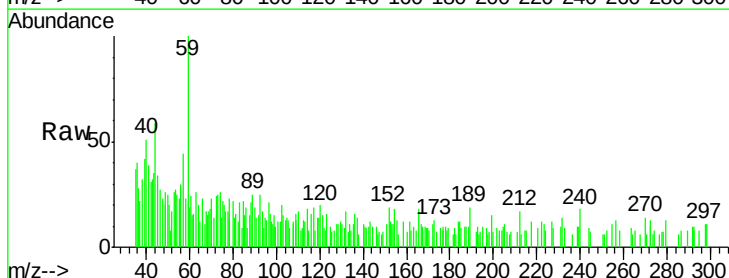
Acq: 26 Dec 2019 15:58

Tgt Ion: 59 Resp: 2620

Ion Ratio Lower Upper

59 100

57 21.1 8.4 12.6#

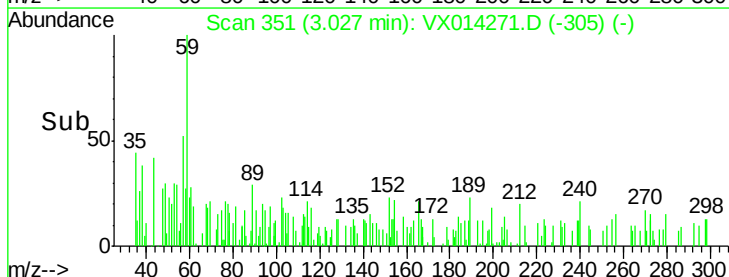


Abundance Ion 59.00 (58.70 to 59.70): VX0

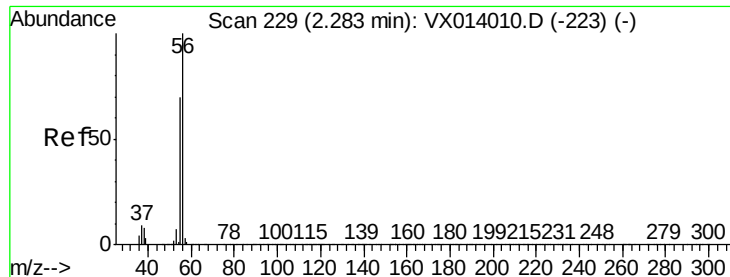
Ion 57.00 (56.70 to 57.70): VX0

3.03

3.10



Time-->



#13

Acrolein

Concen: 0.771 ug/l

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

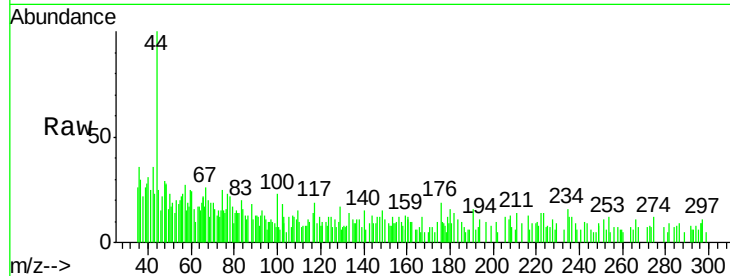
992-MW-02-(23.8)

Tgt Ion: 56 Resp: 585

Ion Ratio Lower Upper

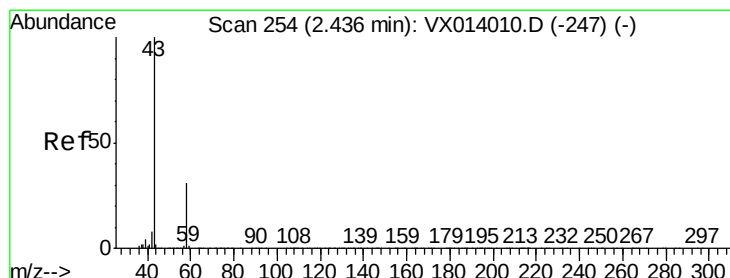
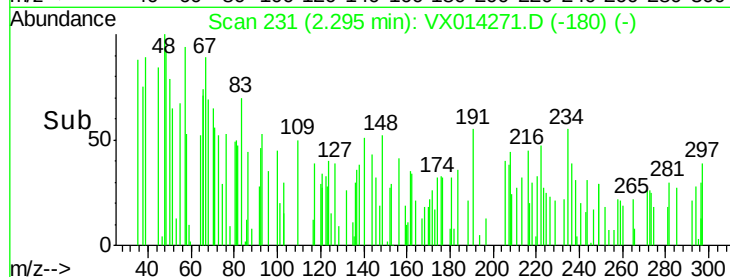
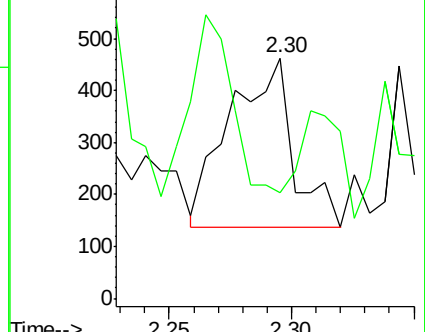
56 100

55 41.5 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: 3.231 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014271.D

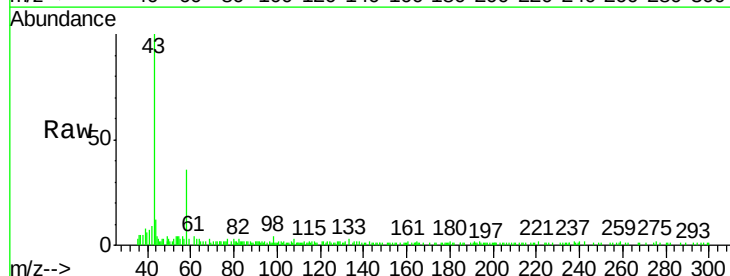
Acq: 26 Dec 2019 15:58

Tgt Ion: 43 Resp: 12865

Ion Ratio Lower Upper

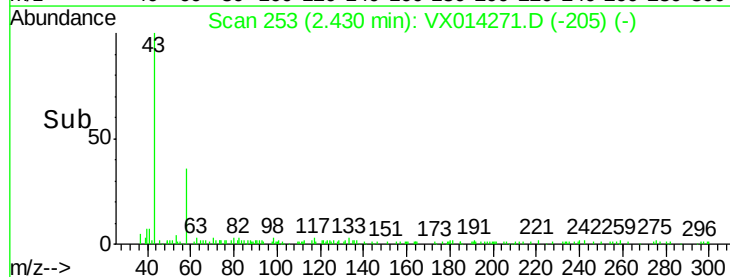
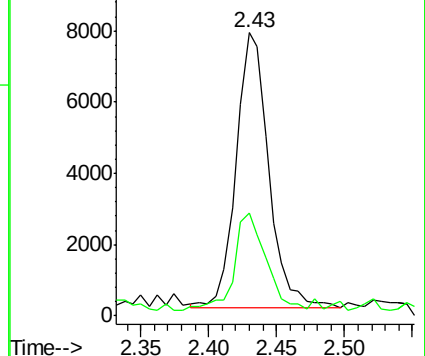
43 100

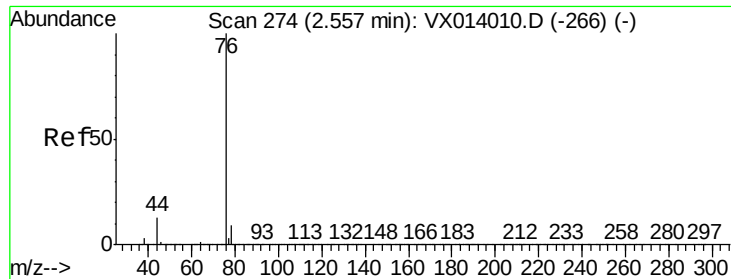
58 33.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.836 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

Instrument :

MSVOA_X

ClientSampled :

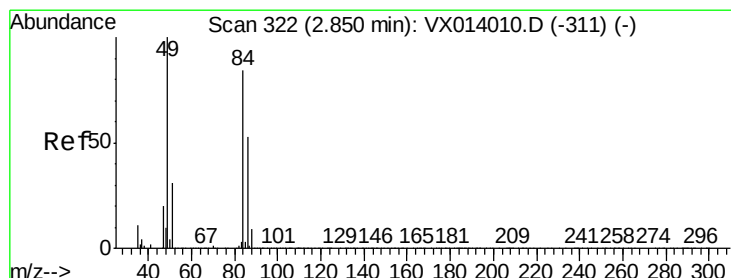
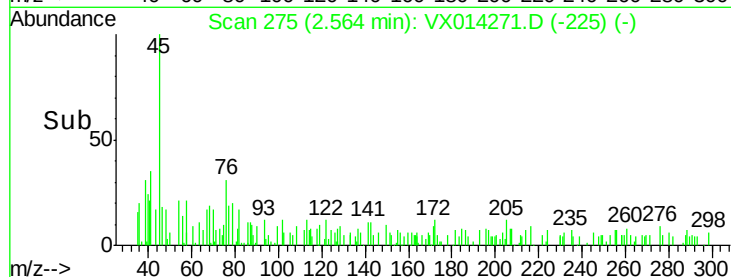
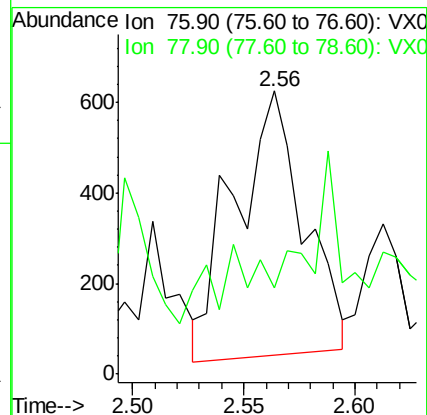
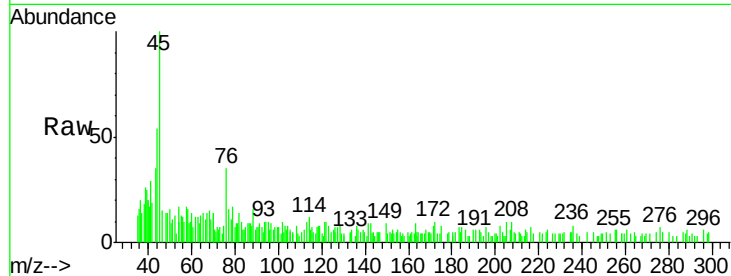
992-MW-02-(23.8)

Tgt Ion: 76 Resp: 1266

Ion Ratio Lower Upper

76 100

78 0.6 7.2 10.8#



#20

Methylene Chloride

Concen: 0.251 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

Tgt Ion: 84 Resp: 1574

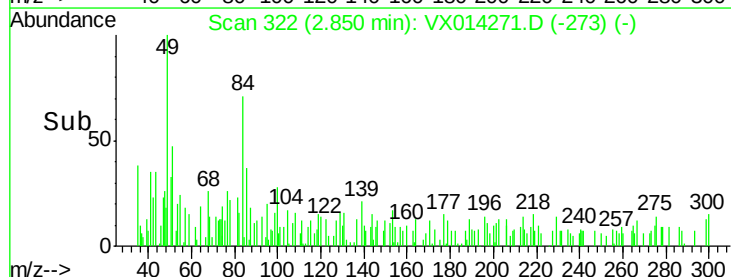
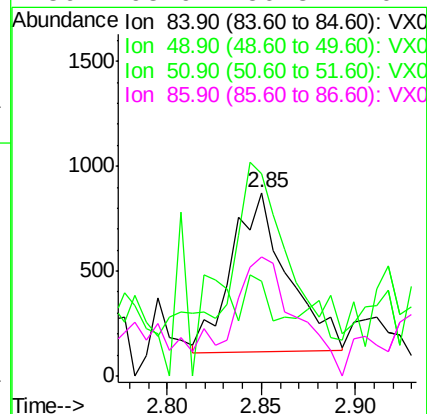
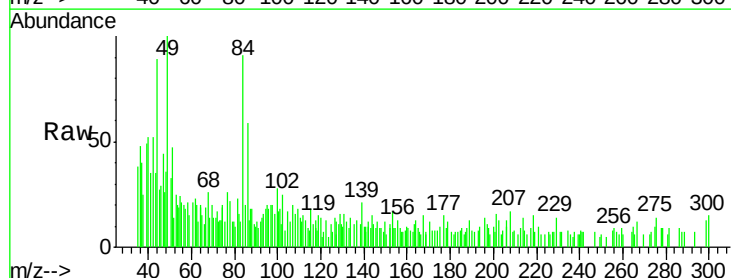
Ion Ratio Lower Upper

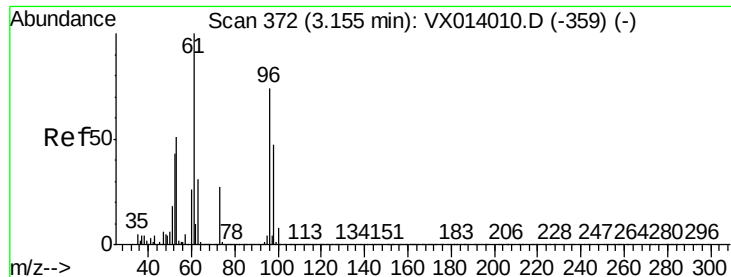
84 100

49 126.7 95.8 143.6

51 33.6 29.8 44.8

86 93.9 50.8 76.2#





#21

trans-1,2-Dichloroethene

Concen: 1.234 ug/l

RT: 3.15 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

992-MW-02-(23.8)

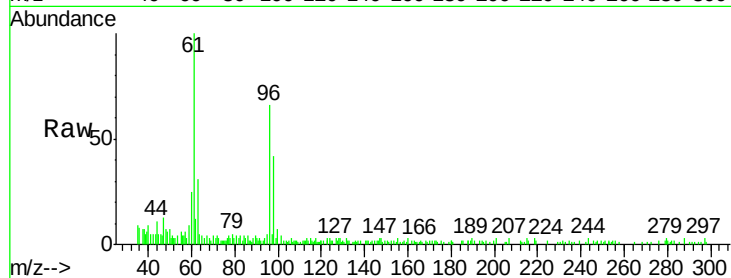
Tgt Ion: 96 Resp: 7077

Ion Ratio Lower Upper

96 100

61 151.6 108.3 162.5

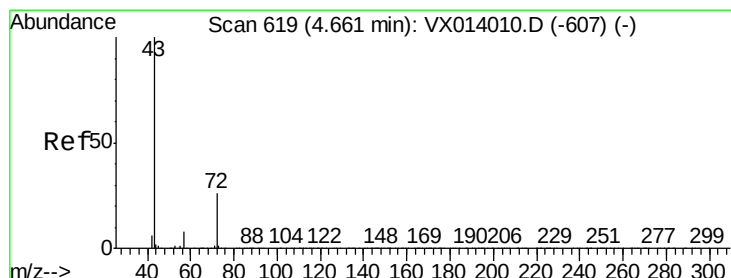
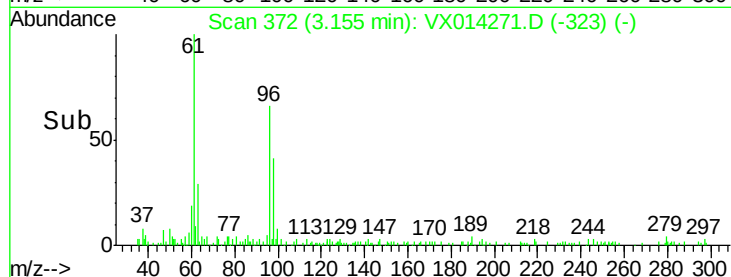
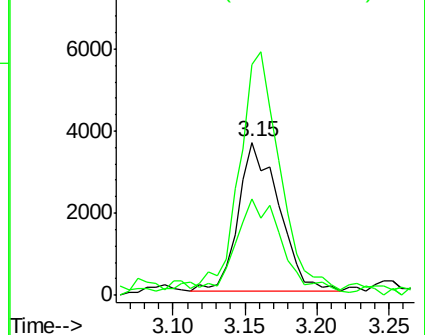
98 61.7 50.8 76.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.252 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX014271.D

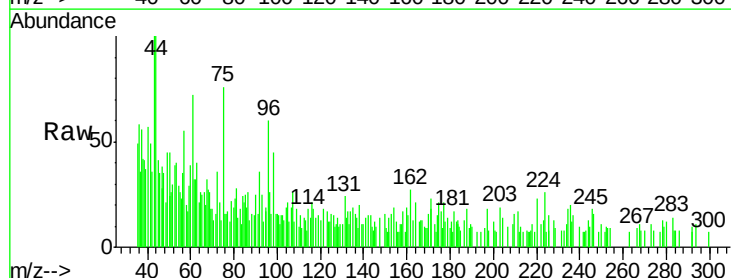
Acq: 26 Dec 2019 15:58

Tgt Ion: 43 Resp: 1238

Ion Ratio Lower Upper

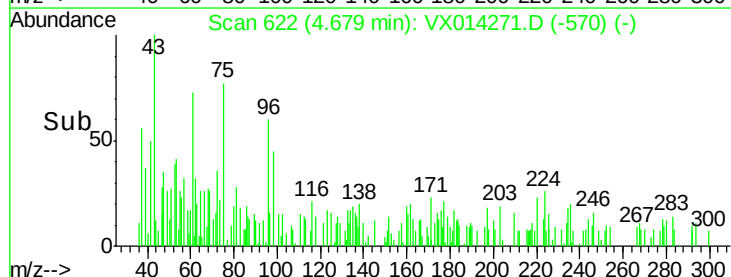
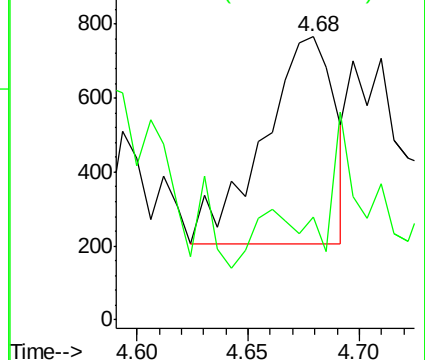
43 100

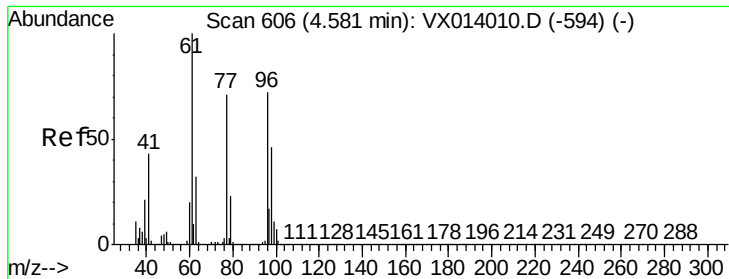
72 19.1 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



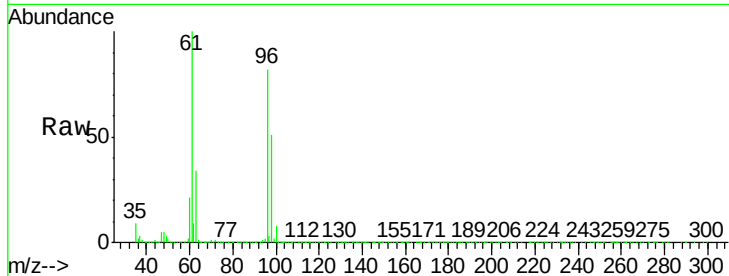


#27

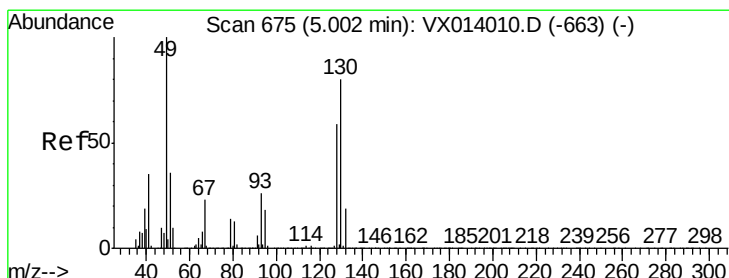
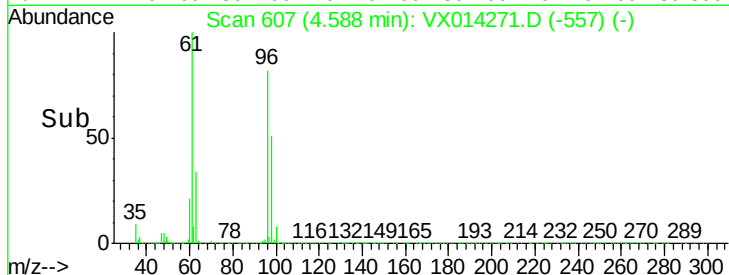
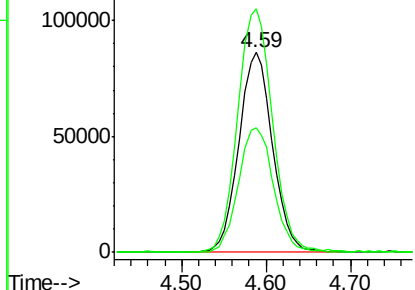
cis-1,2-Dichloroethene
Concen: 35.998 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX014271.D
Acq: 26 Dec 2019 15:58

Instrument :
MSVOA_X
ClientSampled :
992-MW-02-(23.8)

Tgt Ion	Ratio	Lower	Upper
96	100		
61	125.8	0.0	288.4
98	64.4	0.0	129.6



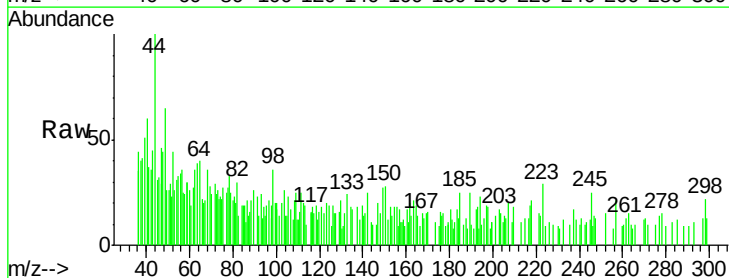
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



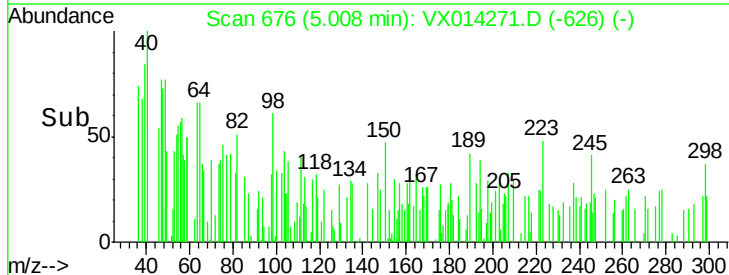
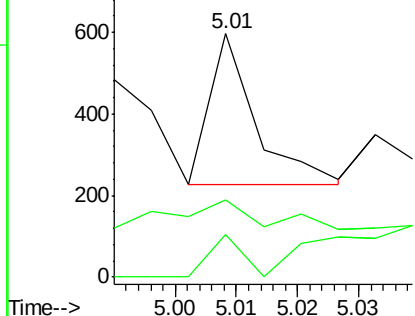
#28

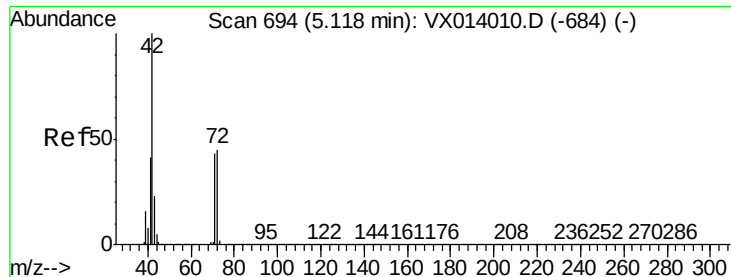
Bromochloromethane
Concen: 0.502 ug/l
RT: 5.01 min Scan# 676
Delta R.T. 0.01 min
Lab File: VX014271.D
Acq: 26 Dec 2019 15:58

Tgt Ion	Ratio	Lower	Upper
49	100		
129	20.3	0.0	5.0#
130	0.0	64.6	97.0#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.277 ug/l

RT: 5.09 min Scan# 689

Delta R.T. -0.03 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

992-MW-02-(23.8)

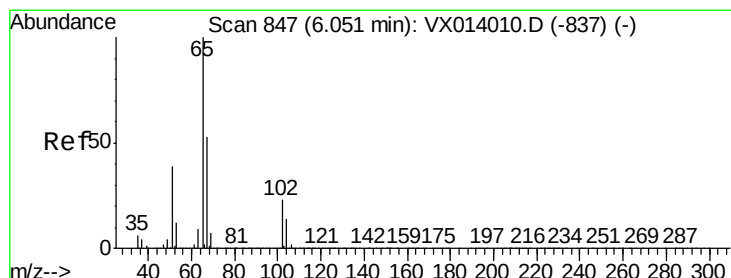
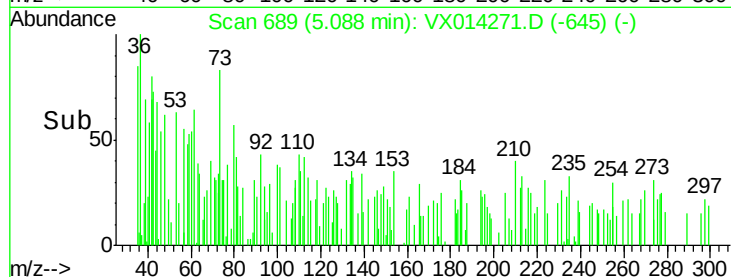
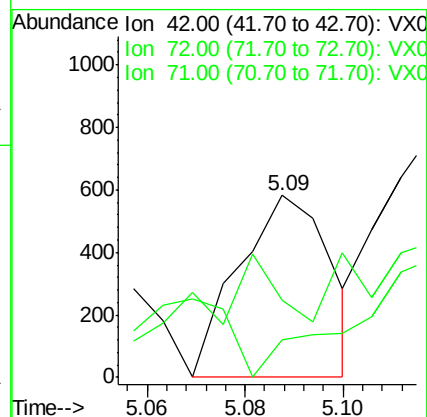
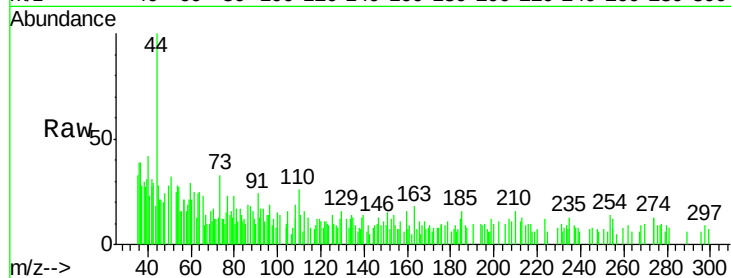
Tgt Ion: 42 Resp: 760

Ion Ratio Lower Upper

42 100

72 39.2 35.8 53.8

71 49.5 33.6 50.4



#33

1,2-Dichloroethane-d4

Concen: 48.491 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014271.D

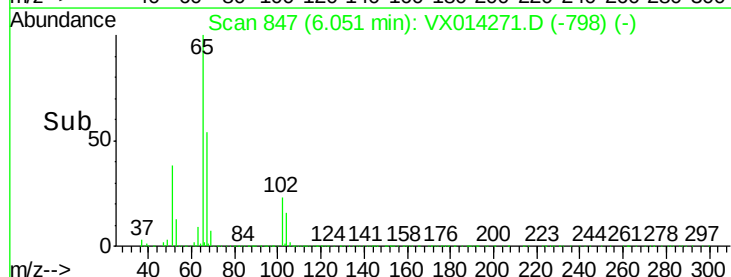
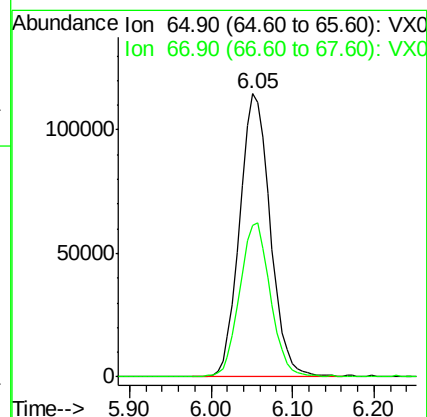
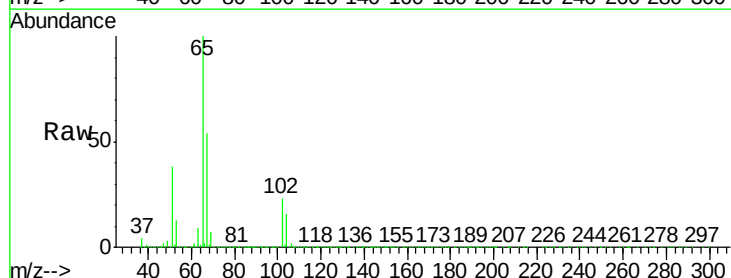
Acq: 26 Dec 2019 15:58

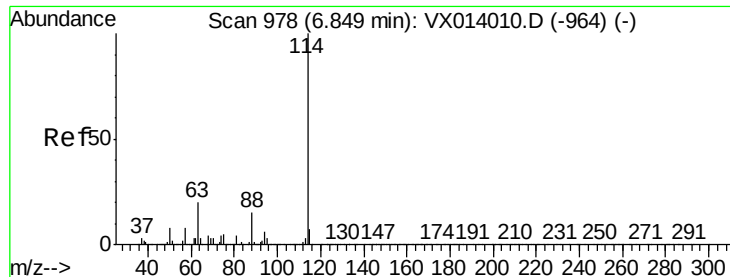
Tgt Ion: 65 Resp: 297402

Ion Ratio Lower Upper

65 100

67 54.8 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

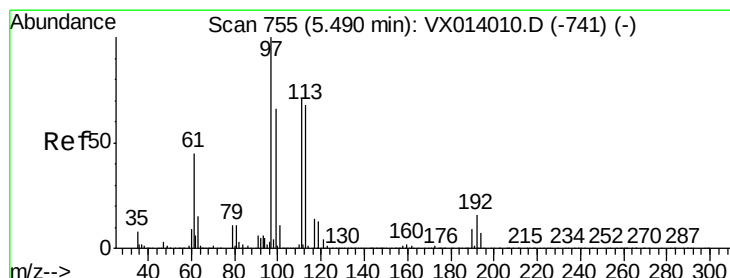
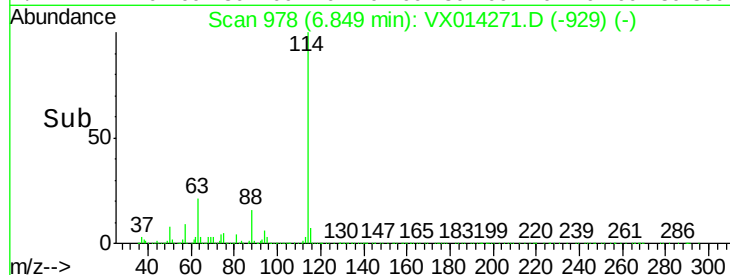
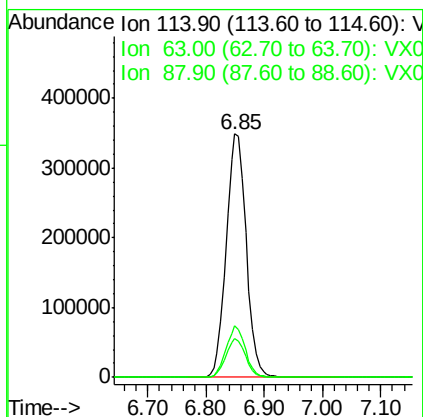
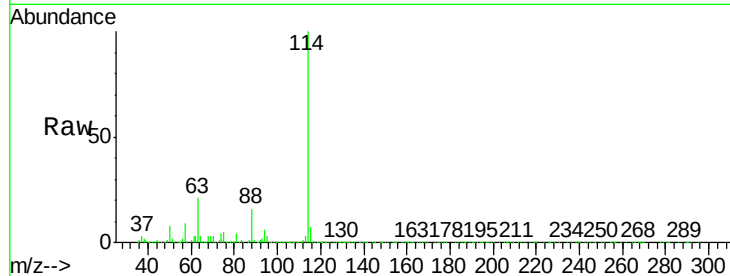
Instrument :

MSVOA_X

ClientSampleId :

992-MW-02-(23.8)

Tgt Ion:	114	Resp:	834985
Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.8
88	16.1	0.0	30.4



#35

Dibromofluoromethane

Concen: 48.384 ug/l

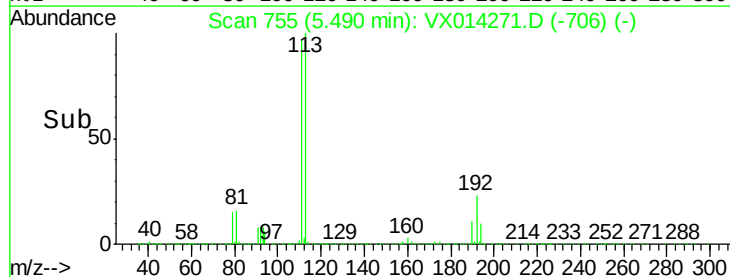
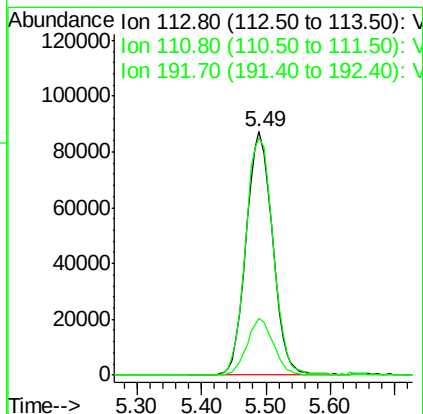
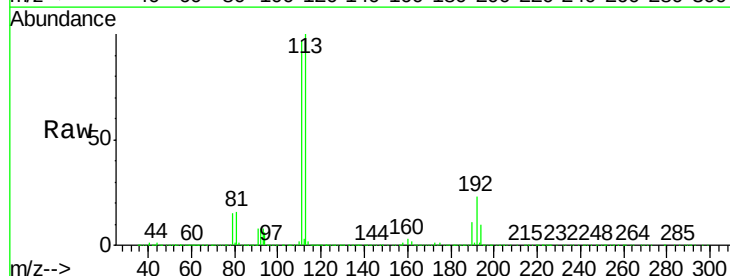
RT: 5.49 min Scan# 755

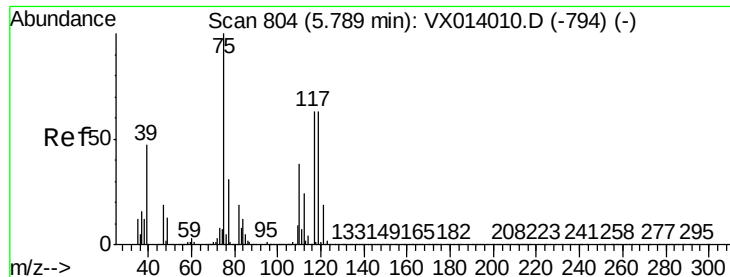
Delta R.T. 0.00 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

Tgt Ion:	113	Resp:	245585
Ion	Ratio	Lower	Upper
113	100		
111	100.7	82.0	123.0
192	23.2	19.3	28.9

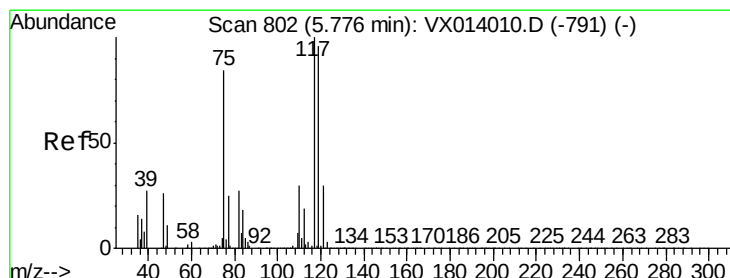
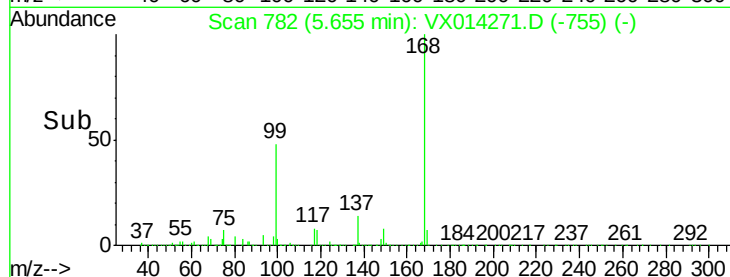
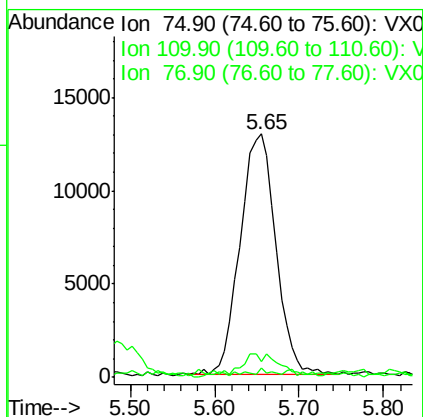
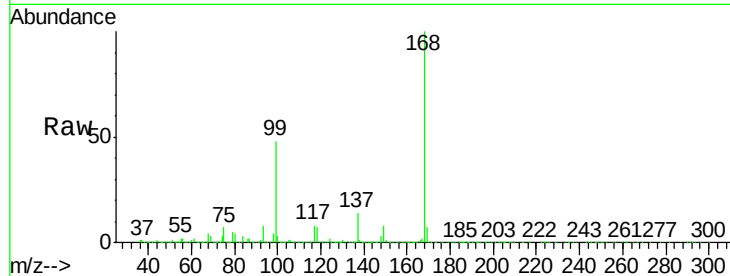




#36
 1,1-Dichloropropene
 Concen: 4.862 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014271.D
 Acq: 26 Dec 2019 15:58

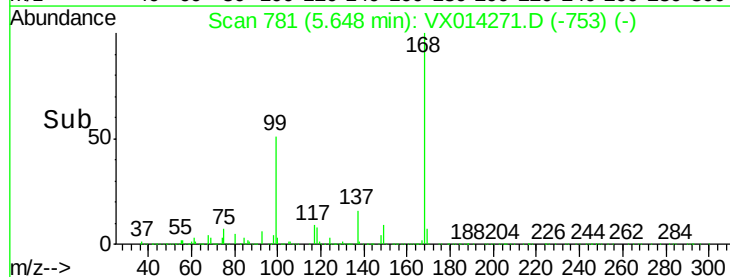
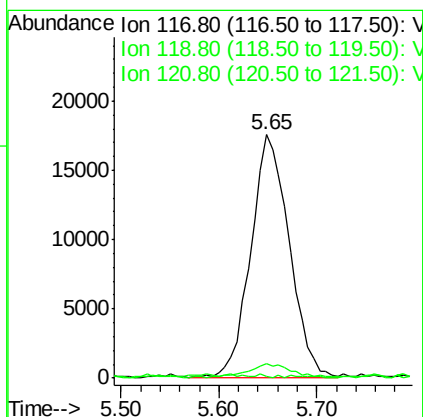
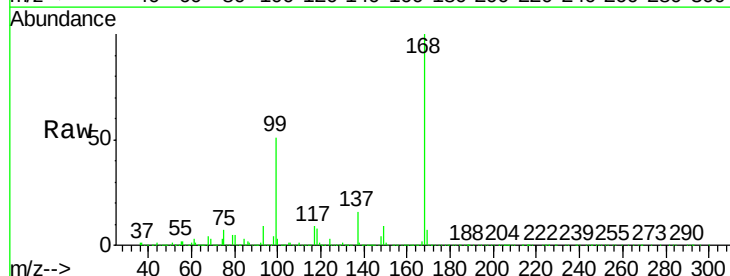
Instrument :
 MSVOA_X
 ClientSampleId :
 992-MW-02-(23.8)

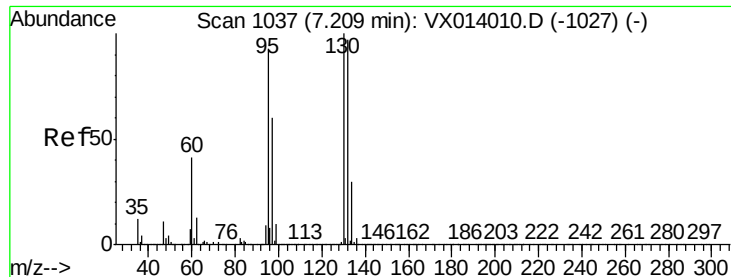
Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.5	18.3	54.9#
77	1.4	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.805 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014271.D
 Acq: 26 Dec 2019 15:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.2	114.4#
121	1.3	23.6	35.4#





#44

Trichloroethene

Concen: 34.299 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

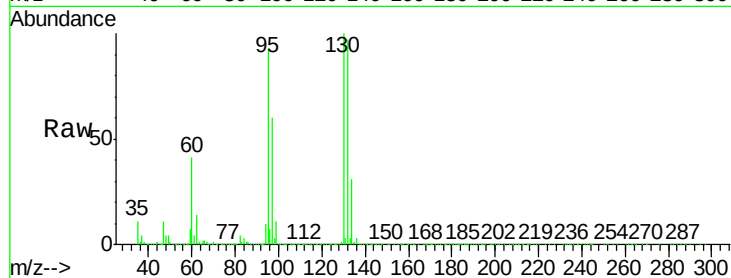
992-MW-02-(23.8)

Tgt Ion: 130 Resp: 223324

Ion Ratio Lower Upper

130 100

95 92.5 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

120000

100000

80000

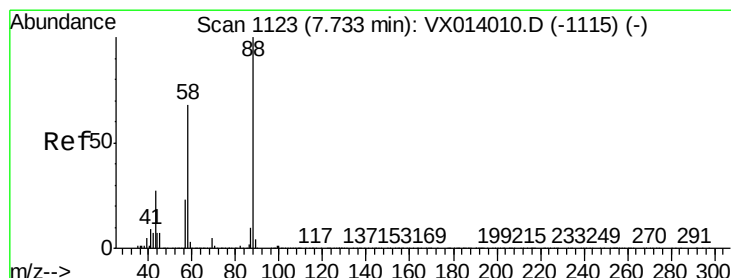
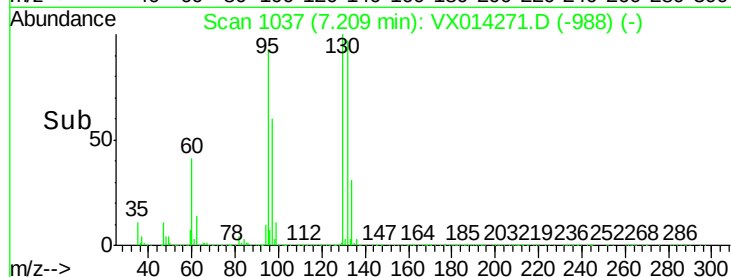
60000

40000

20000

0

Time-->



#49

1,4-Dioxane

Concen: 1.799 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

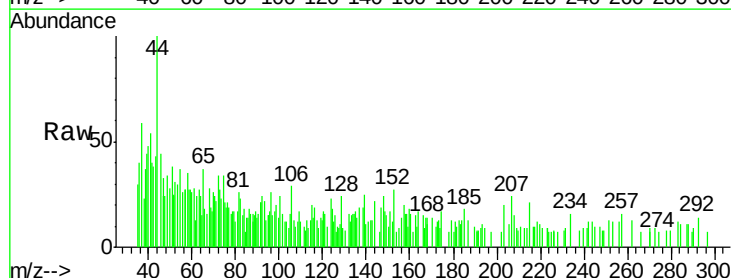
Tgt Ion: 88 Resp: 251

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

58 333.9 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

1000

800

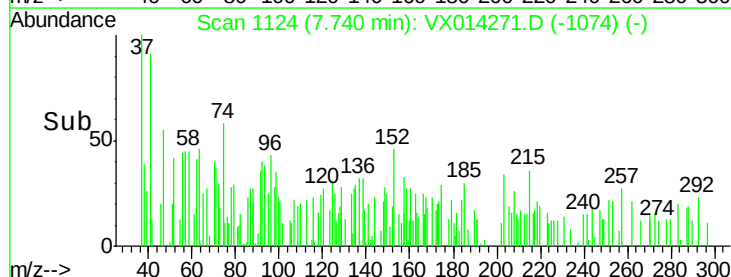
600

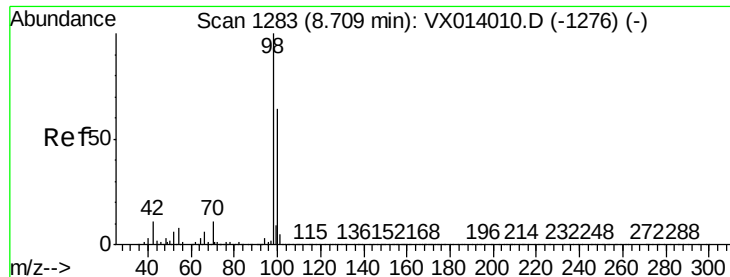
400

200

0

Time-->

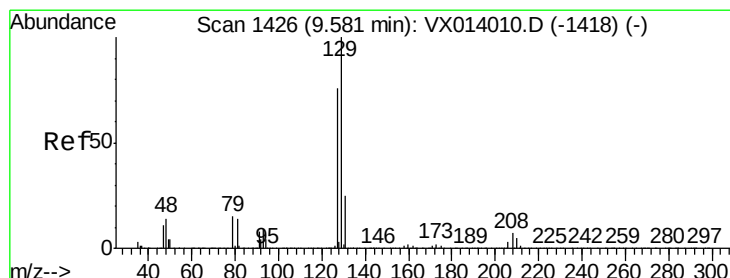
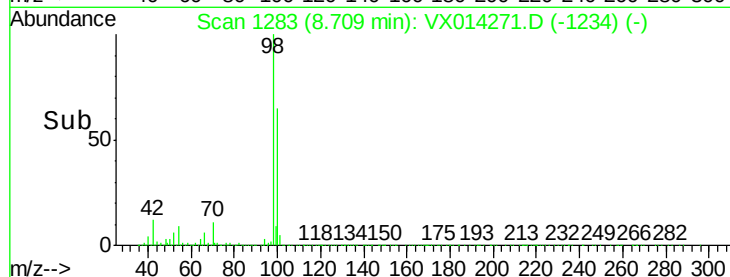
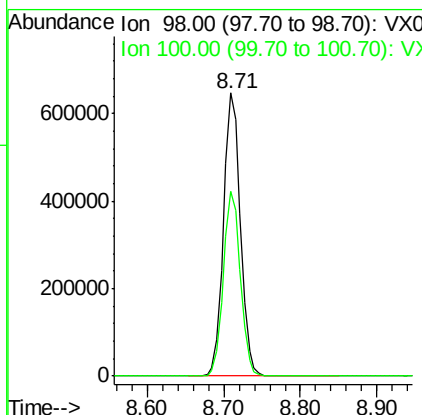
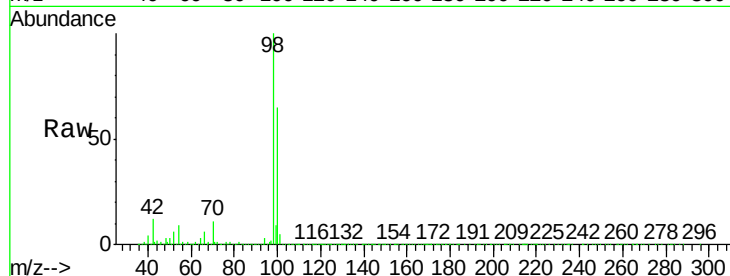




#50
Toluene-d8
Concen: 50.102 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014271.D
Acq: 26 Dec 2019 15:58

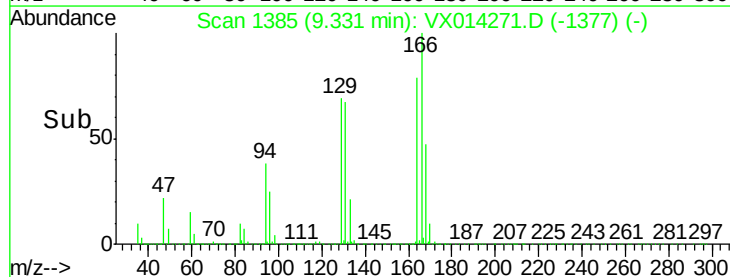
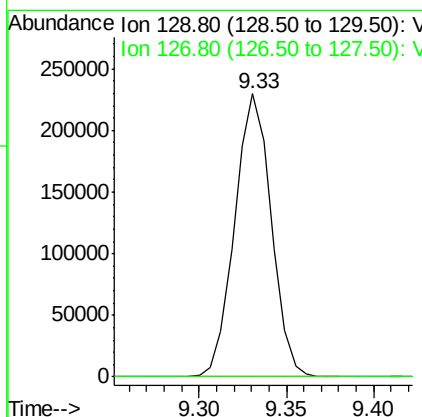
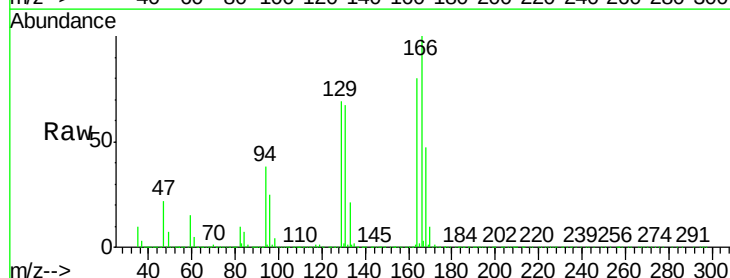
Instrument :
MSVOA_X
ClientSampleId :
992-MW-02-(23.8)

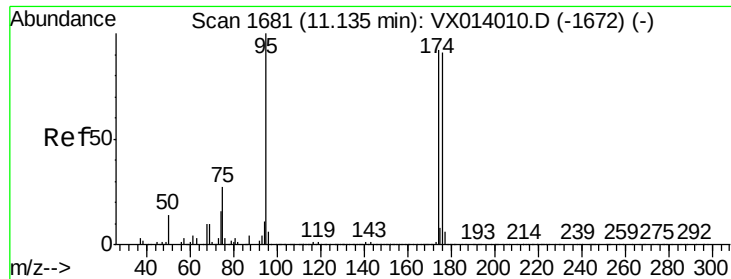
Tgt Ion: 98 Resp: 990079
Ion Ratio Lower Upper
98 100
100 65.7 52.9 79.3



#60
Dibromochloromethane
Concen: 55.969 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.25 min
Lab File: VX014271.D
Acq: 26 Dec 2019 15:58

Tgt Ion: 129 Resp: 332231
Ion Ratio Lower Upper
129 100
127 0.1 38.4 115.2#





#62

4-Bromofluorobenzene

Concen: 45.531 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

992-MW-02-(23.8)

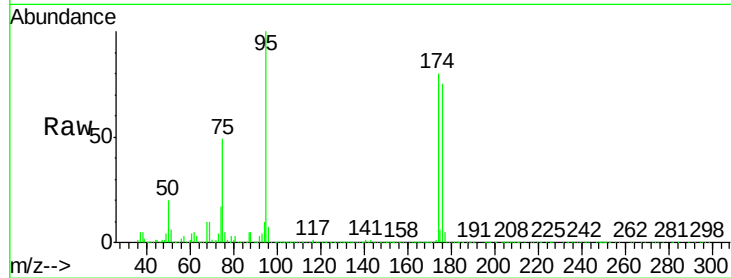
Tgt Ion: 95 Resp: 328897

Ion Ratio Lower Upper

95 100

174 88.3 0.0 175.8

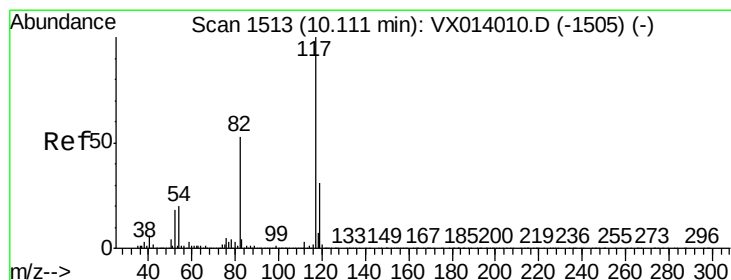
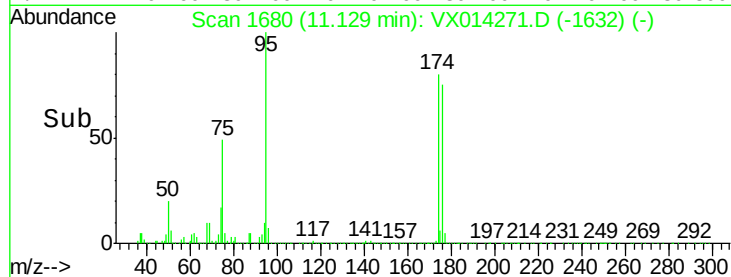
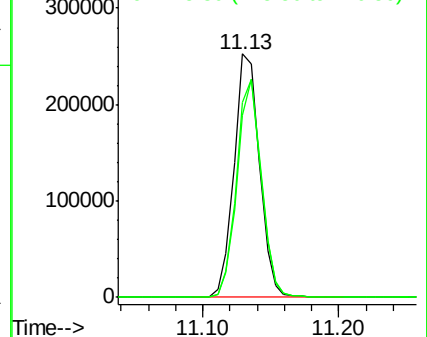
176 85.0 0.0 173.0



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: VX014271.D

Acq: 26 Dec 2019 15:58

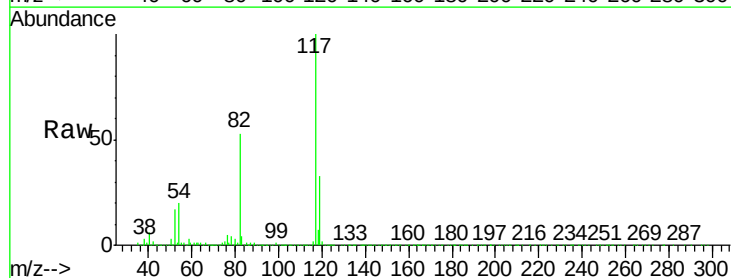
Tgt Ion: 117 Resp: 744345

Ion Ratio Lower Upper

117 100

82 52.7 42.2 63.4

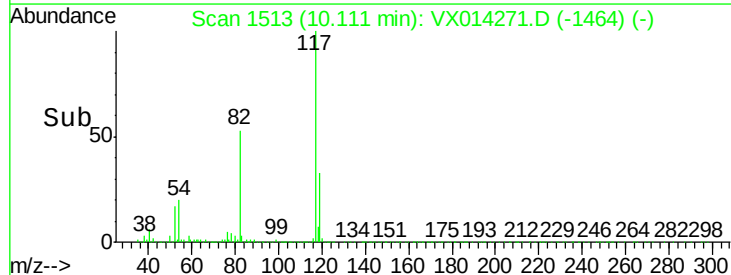
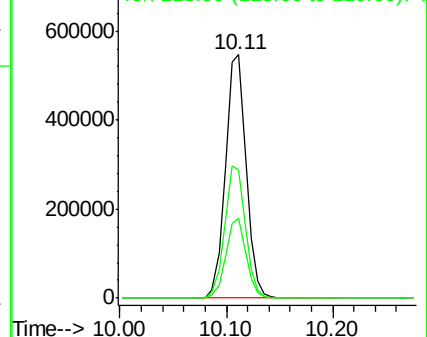
119 32.5 25.1 37.7

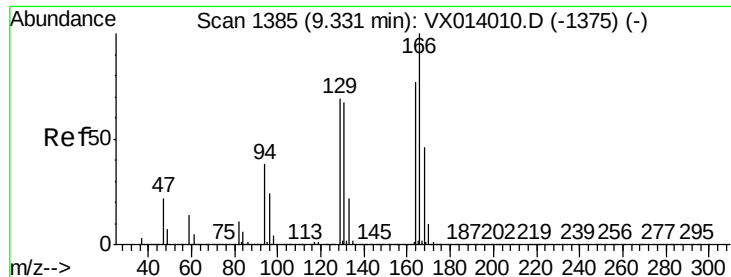


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 57.540 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

992-MW-02-(23.8)

Tgt Ion:164 Resp: 378988

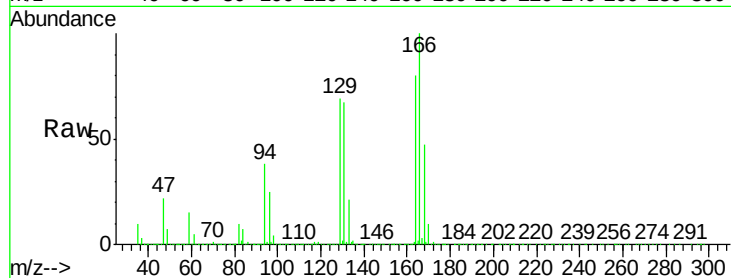
Ion Ratio Lower Upper

164 100

166 125.7 104.0 156.0

129 86.9 72.2 108.4

131 84.5 69.6 104.4

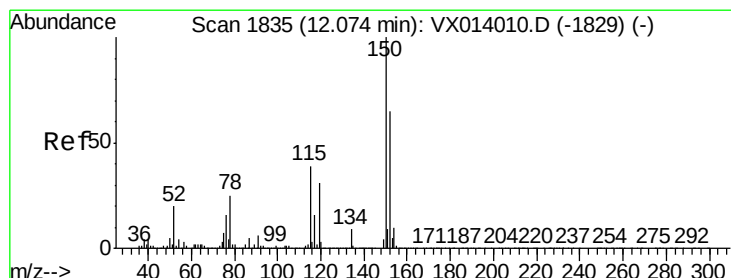
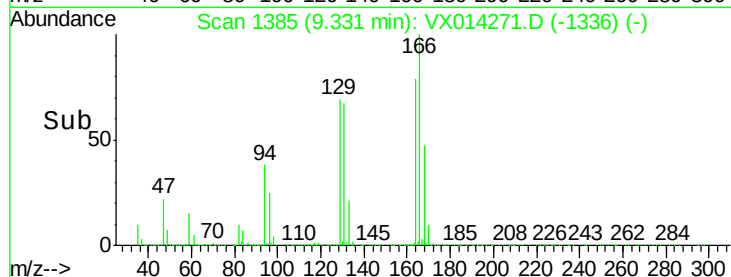
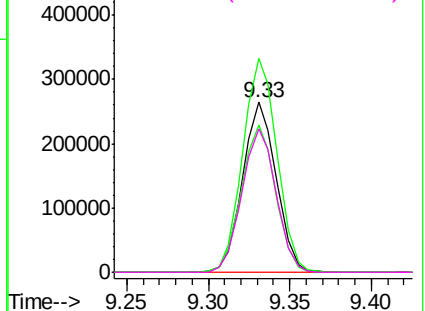


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX014271.D

Acq: 26 Dec 2019 15:58

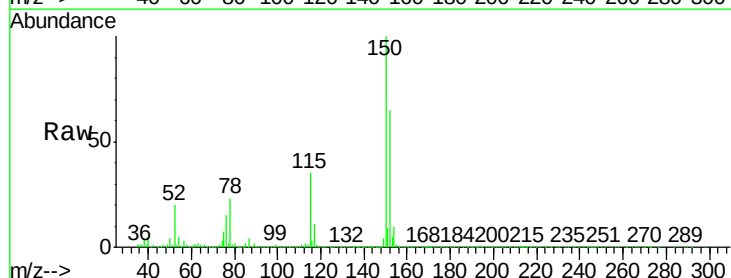
Tgt Ion:152 Resp: 328519

Ion Ratio Lower Upper

152 100

115 54.3 38.3 114.9

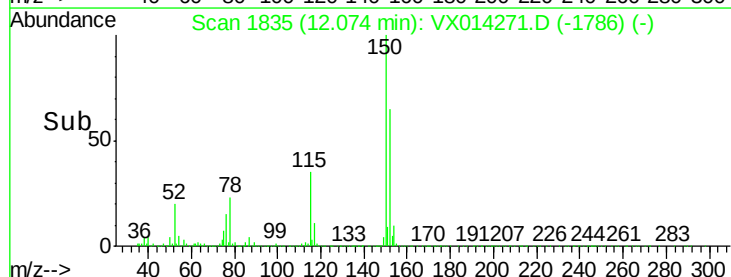
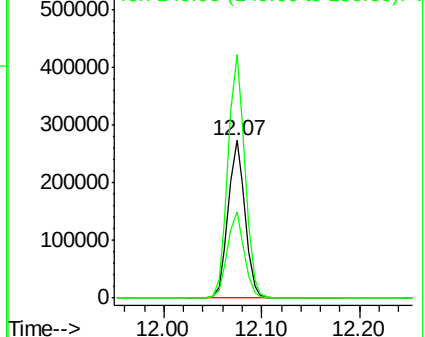
150 154.7 0.0 345.4

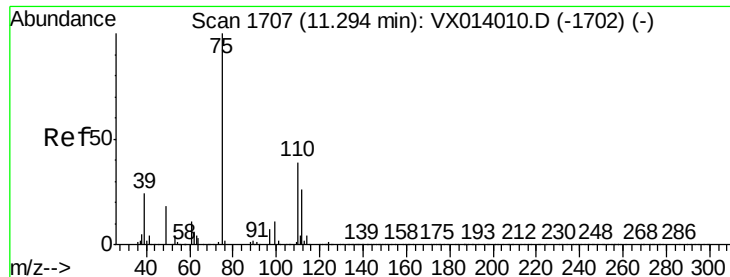


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.446 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

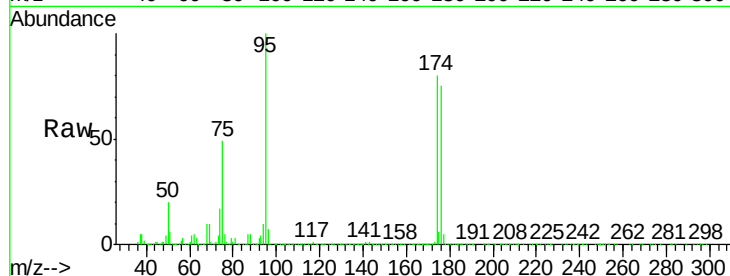
992-MW-02-(23.8)

Tgt Ion: 75 Resp: 160089

Ion Ratio Lower Upper

75 100

77 1.8 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

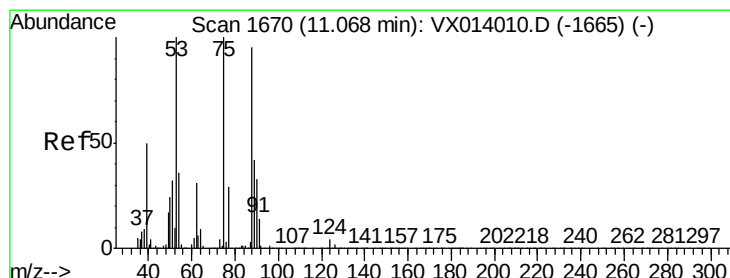
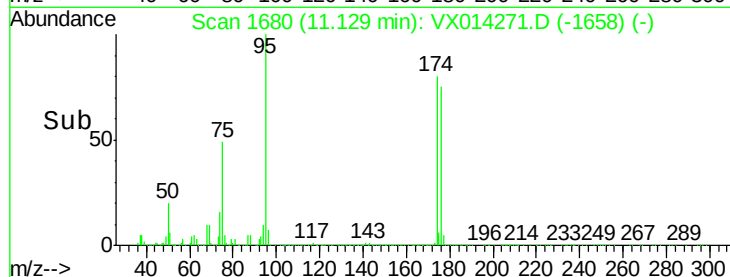
Ion 77.00 (76.70 to 77.70): VX0

11.13

100000

50000

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 63.355 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014271.D

Acq: 26 Dec 2019 15:58

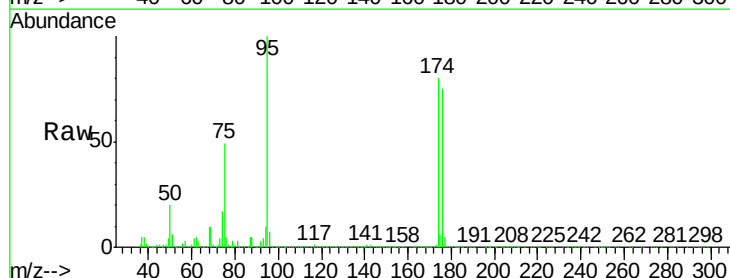
Tgt Ion: 75 Resp: 160089

Ion Ratio Lower Upper

75 100

53 0.3 76.7 115.1#

89 0.0 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

Time--> 11.05 11.10 11.15 11.20

