

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122619\
 Data File : VX014281.D
 Acq On : 26 Dec 2019 19:50
 Operator : JC/SP
 Sample : K6405-01DL 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 991-MW-01-(23)DL

Quant Time: Dec 27 06:05:35 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	525064	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	807481	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	734095	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	319659	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	294060	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
35) Dibromofluoromethane	5.49	113	240899	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
50) Toluene-d8	8.71	98	970563	50.79	ug/l	0.00
Spiked Amount			Recovery	=	101.58%	
62) 4-Bromofluorobenzene	11.14	95	323745	46.34	ug/l	0.00
Spiked Amount			Recovery	=	92.68%	

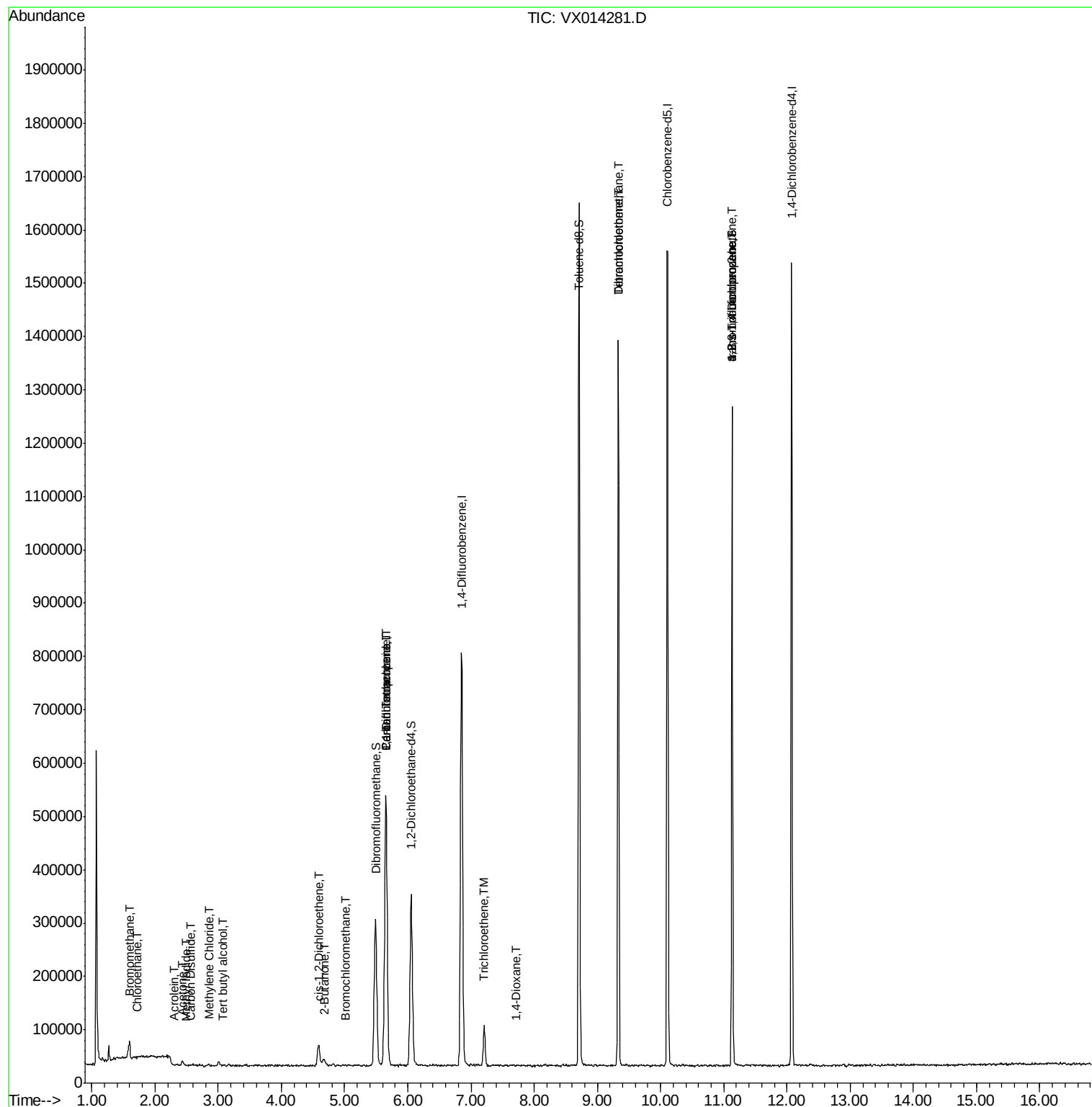
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.61	94	1112	0.236	ug/l #	39
6) Chloroethane	1.72	64	1646	0.401	ug/l #	54
10) Methyl Iodide	2.50	142	318	2.667	ug/l #	1
11) Tert butyl alcohol	3.08	59	307	0.239	ug/l #	47
13) Acrolein	2.31	56	474	0.644	ug/l #	67
16) Acetone	2.43	43	9149	2.368	ug/l	90
17) Carbon Disulfide	2.56	76	443	0.781	ug/l #	10
20) Methylene Chloride	2.85	84	1660	0.273	ug/l #	71
25) 2-Butanone	4.68	43	4509	0.947	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	25576	4.064	ug/l	93
28) Bromochloromethane	5.02	49	745	0.646	ug/l #	82
36) 1,1-Dichloropropene	5.65	75	36571	4.936	ug/l #	51
38) Carbon Tetrachloride	5.65	117	45690	6.769	ug/l #	16
44) Trichloroethene	7.21	130	30352	4.820	ug/l	96
49) 1,4-Dioxane	7.73	88	214	1.586	ug/l #	1
60) Dibromochloromethane	9.33	129	235150	40.964	ug/l #	11
64) Tetrachloroethene	9.33	164	267655	41.204	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	157493	22.694	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	157493	64.055	ug/l #	12

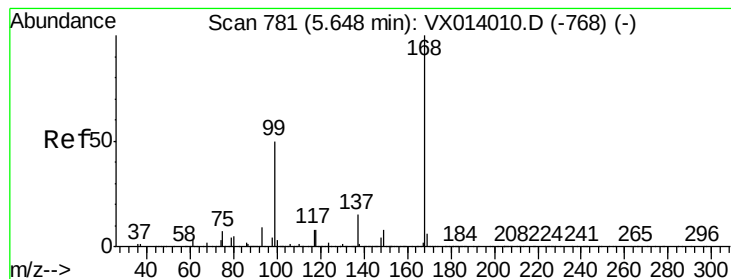
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VX014281.D

Acq: 26 Dec 2019 19:50

Instrument :

MSVOA_X

ClientSampleId :

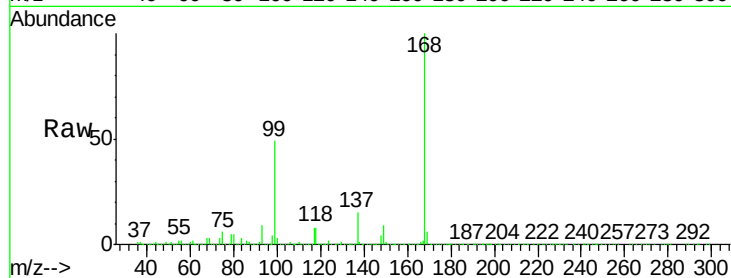
991-MW-01-(23)DL

Tgt Ion: 168 Resp: 525064

Ion Ratio Lower Upper

168 100

99 49.2 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

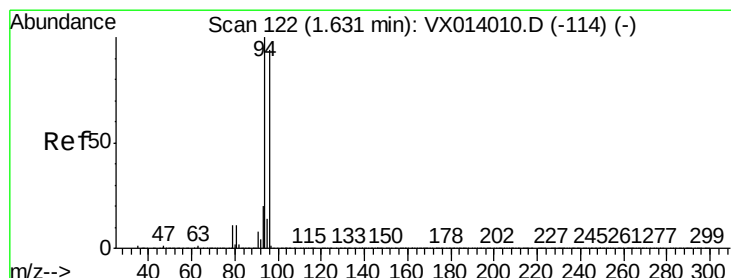
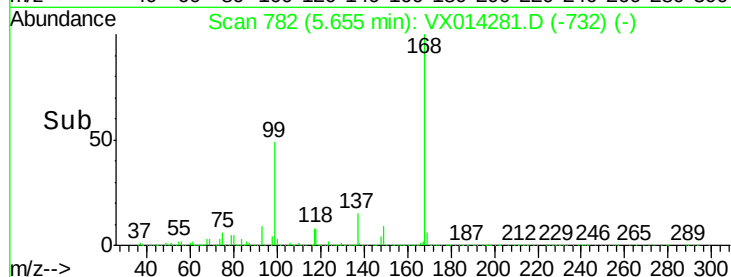
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.236 ug/l

RT: 1.61 min Scan# 118

Delta R.T. -0.02 min

Lab File: VX014281.D

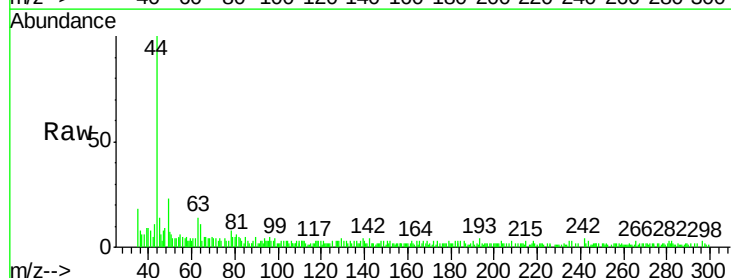
Acq: 26 Dec 2019 19:50

Tgt Ion: 94 Resp: 1112

Ion Ratio Lower Upper

94 100

96 34.7 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.61

600

500

400

300

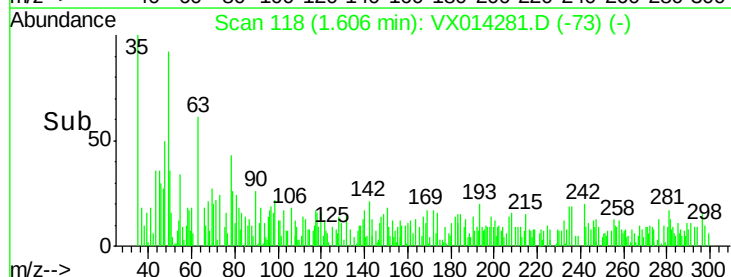
200

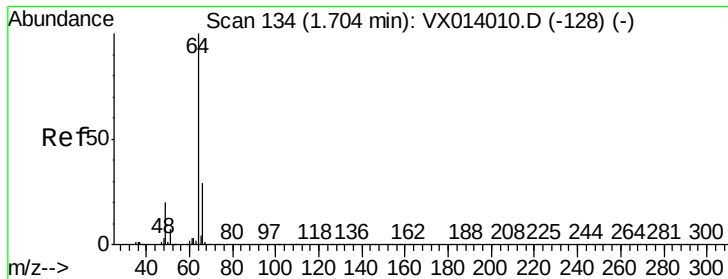
100

0

Time-->

1.55 1.60





#6

Chloroethane

Concen: 0.401 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.02 min

Lab File: VX014281.D

Acq: 26 Dec 2019 19:50

Instrument :

MSVOA_X

ClientSampleId :

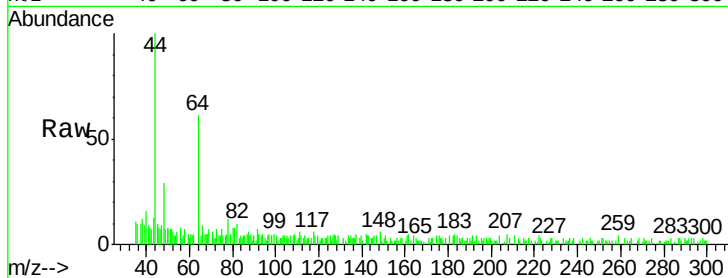
991-MW-01-(23)DL

Tgt Ion: 64 Resp: 1646

Ion Ratio Lower Upper

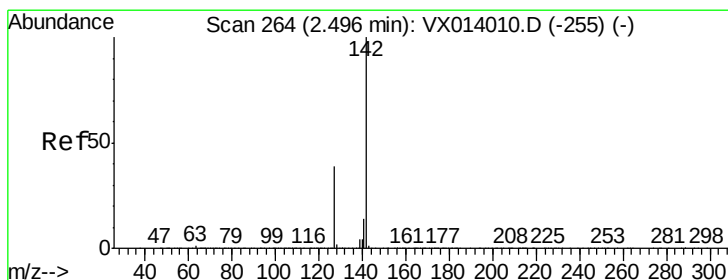
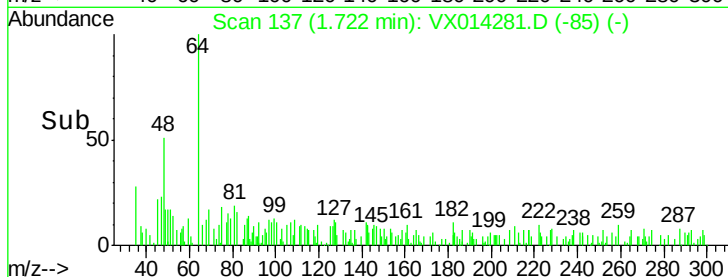
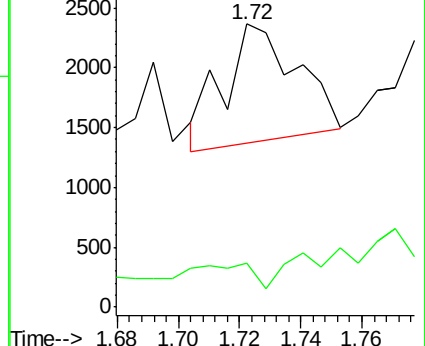
64 100

66 4.7 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: 2.667 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX014281.D

Acq: 26 Dec 2019 19:50

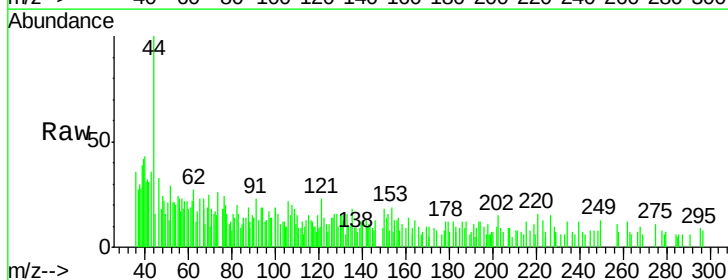
Tgt Ion: 142 Resp: 318

Ion Ratio Lower Upper

142 100

127 105.7 31.6 47.4#

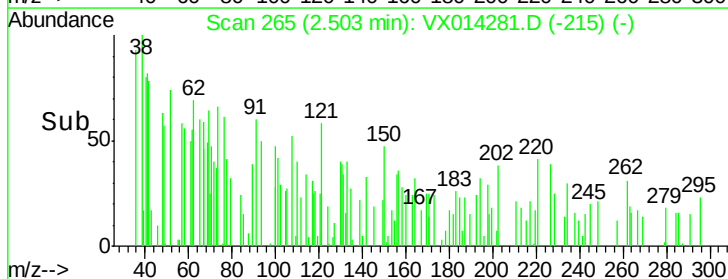
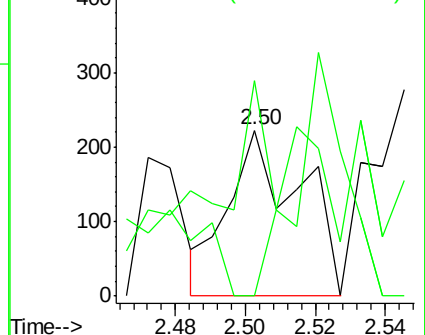
141 95.9 11.6 17.4#

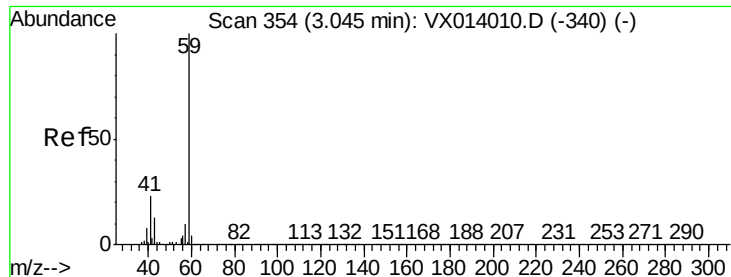


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



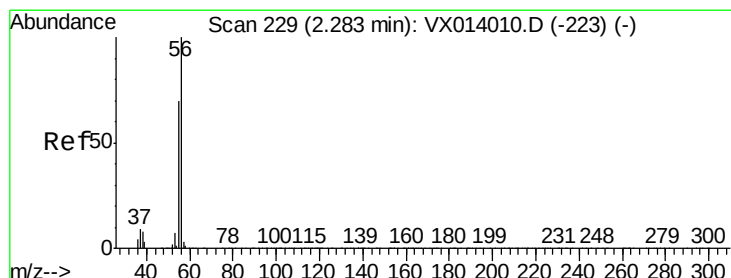
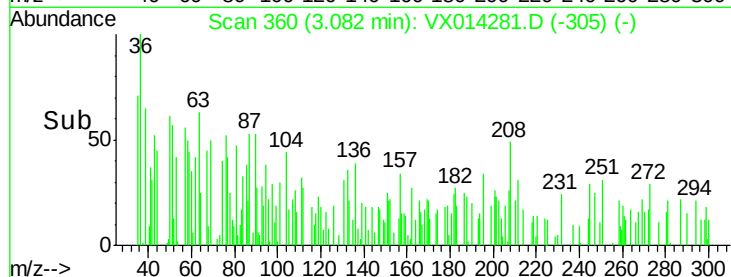
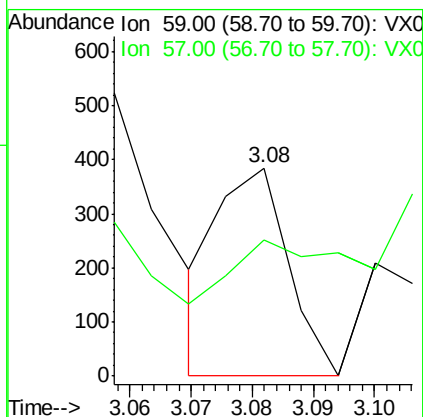
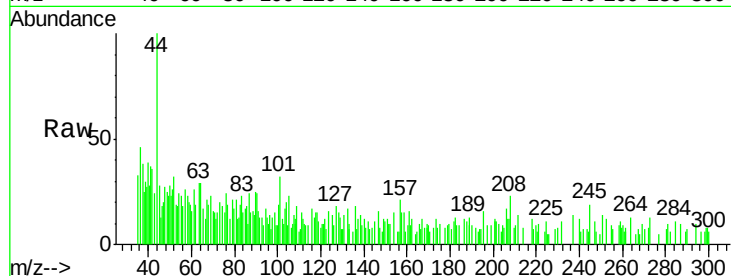


#11

Tert butyl alcohol
 Concen: 0.239 ug/l
 RT: 3.08 min Scan# 360
 Delta R.T. 0.04 min
 Lab File: VX014281.D
 Acq: 26 Dec 2019 19:50

Instrument :
 MSVOA_X
 ClientSampleId :
 991-MW-01-(23)DL

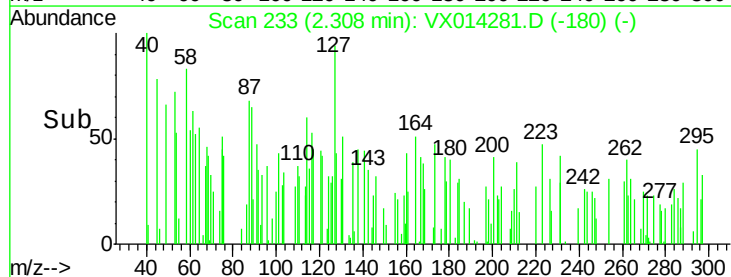
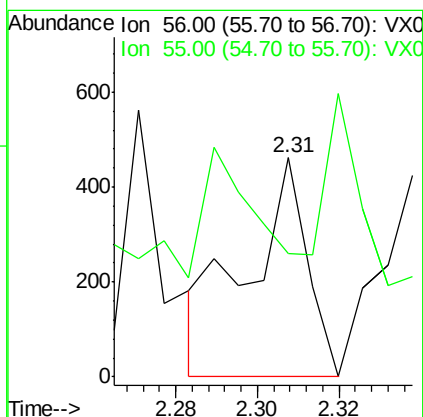
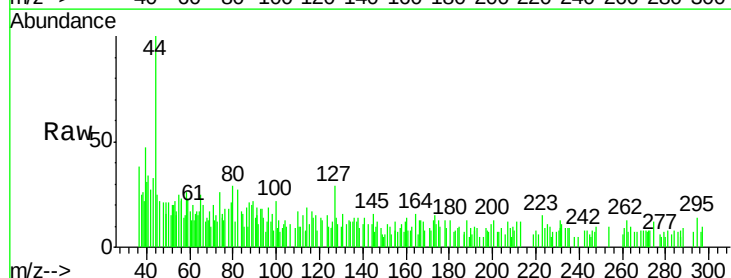
Tgt Ion: 59 Resp: 307
 Ion Ratio Lower Upper
 59 100
 57 30.3 8.4 12.6#

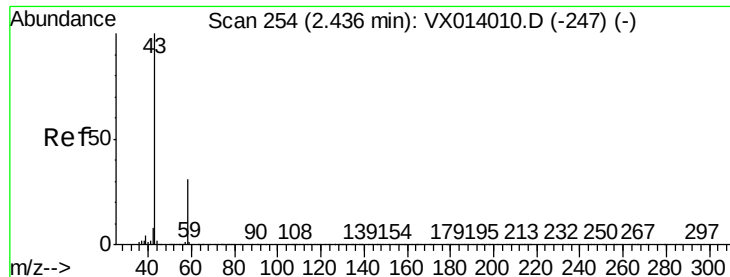


#13

Acrolein
 Concen: 0.644 ug/l
 RT: 2.31 min Scan# 233
 Delta R.T. 0.02 min
 Lab File: VX014281.D
 Acq: 26 Dec 2019 19:50

Tgt Ion: 56 Resp: 474
 Ion Ratio Lower Upper
 56 100
 55 43.7 56.9 85.3#





#16

Acetone

Concen: 2.368 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014281.D

Acq: 26 Dec 2019 19:50

Instrument :

MSVOA_X

ClientSampleId :

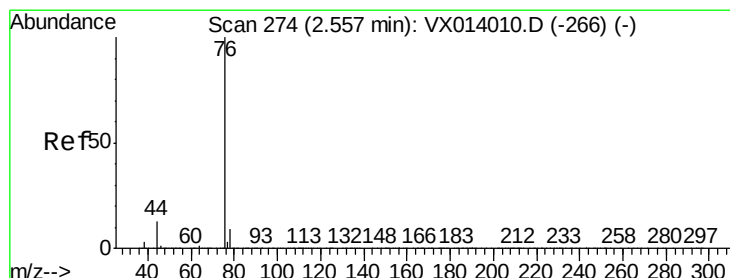
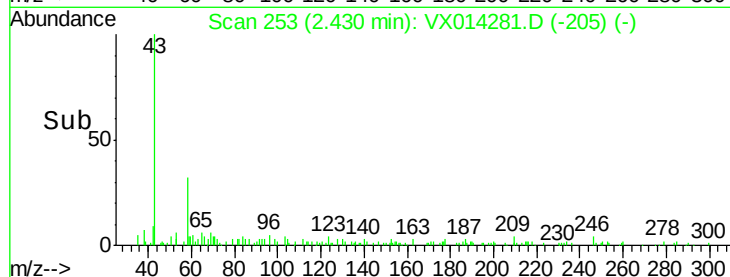
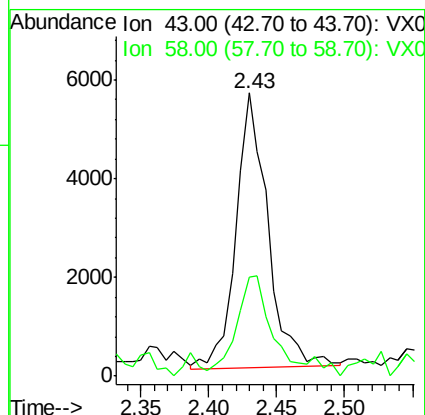
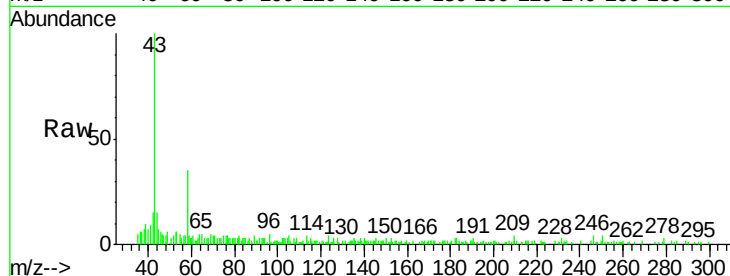
991-MW-01-(23)DL

Tgt Ion: 43 Resp: 9149

Ion Ratio Lower Upper

43 100

58 36.5 24.9 37.3



#17

Carbon Disulfide

Concen: 0.781 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014281.D

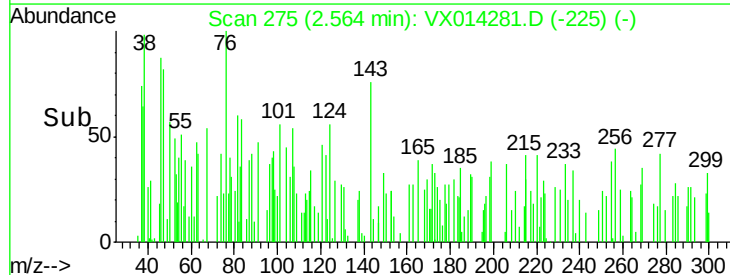
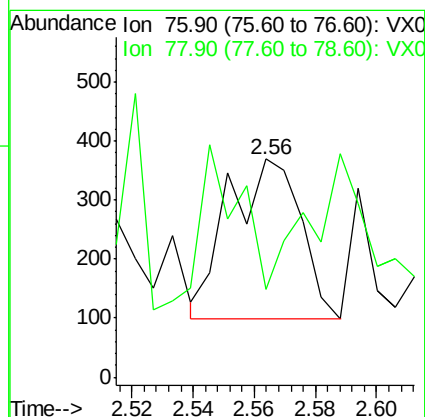
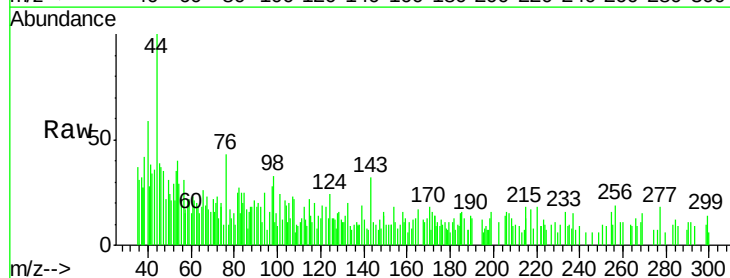
Acq: 26 Dec 2019 19:50

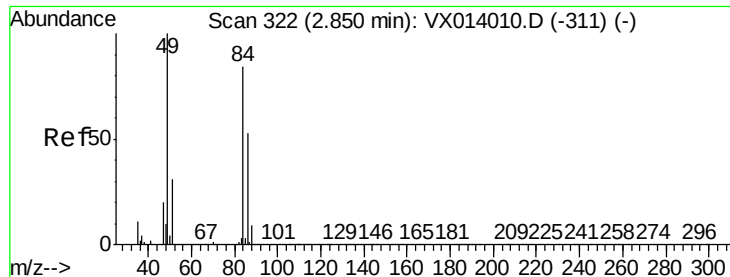
Tgt Ion: 76 Resp: 443

Ion Ratio Lower Upper

76 100

78 41.5 7.2 10.8#

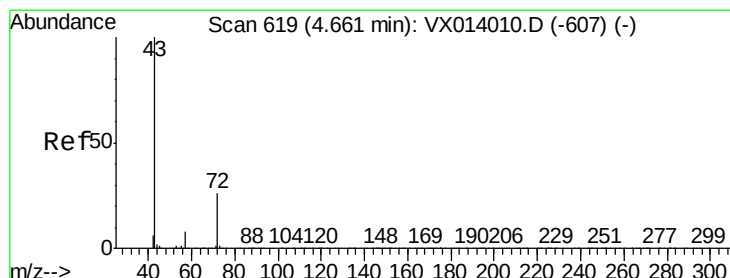
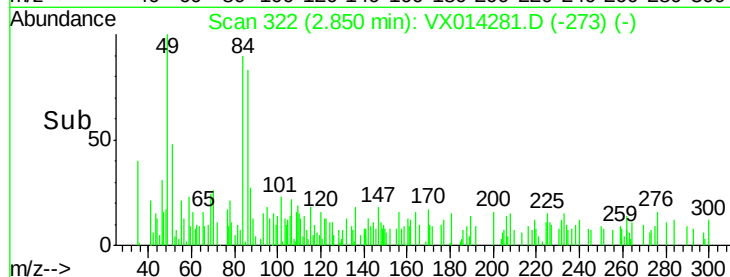
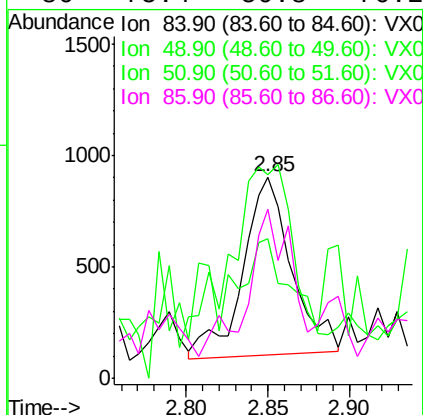
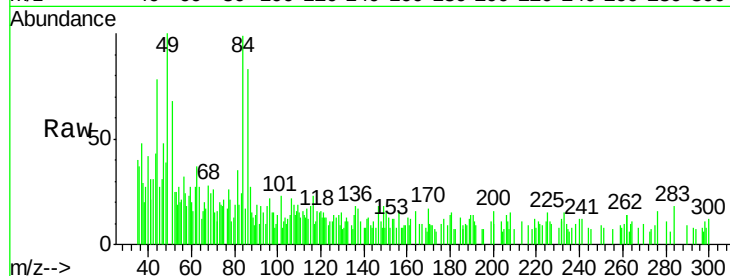




#20
Methylene Chloride
Concen: 0.273 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014281.D
Acq: 26 Dec 2019 19:50

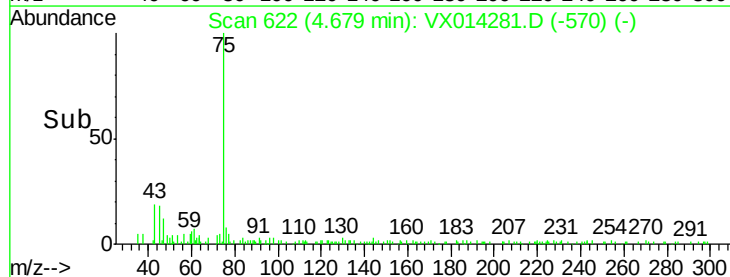
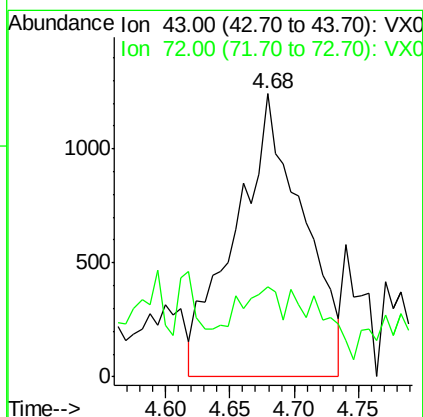
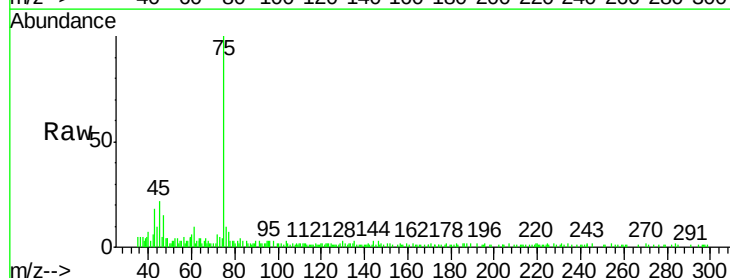
Instrument :
MSVOA_X
ClientSampleId :
991-MW-01-(23)DL

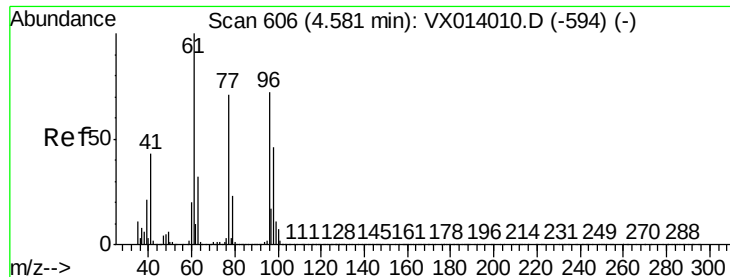
Tgt Ion:	84	Resp:	1660
Ion	Ratio	Lower	Upper
84	100		
49	82.1	95.8	143.6#
51	57.9	29.8	44.8#
86	75.4	50.8	76.2



#25
2-Butanone
Concen: 0.947 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX014281.D
Acq: 26 Dec 2019 19:50

Tgt Ion:	43	Resp:	4509
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.0	31.4#



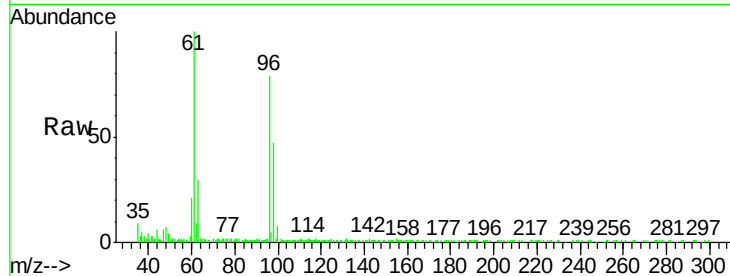


#27

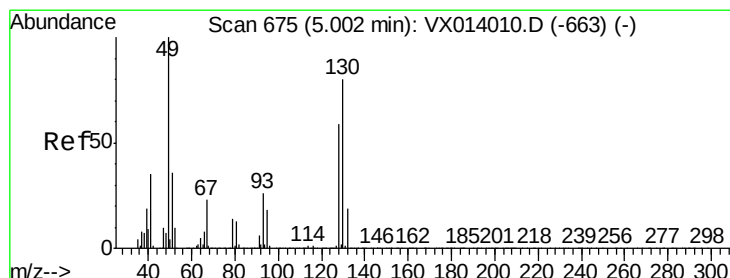
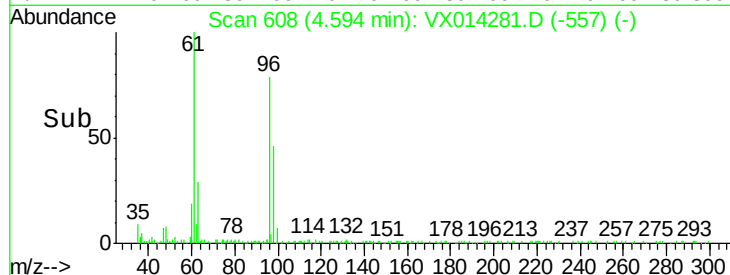
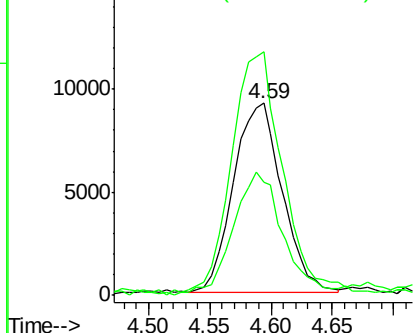
cis-1,2-Dichloroethene
Concen: 4.064 ug/l
RT: 4.59 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX014281.D
Acq: 26 Dec 2019 19:50

Instrument :
MSVOA_X
ClientSampleId :
991-MW-01-(23)DL

Tgt Ion: 96 Resp: 25576
Ion Ratio Lower Upper
96 100
61 135.0 0.0 288.4
98 69.1 0.0 129.6



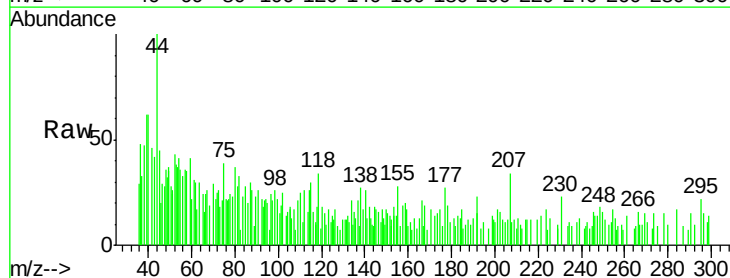
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



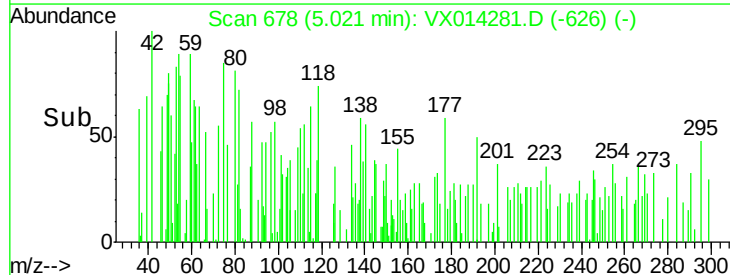
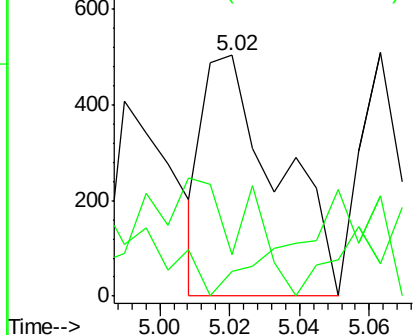
#28

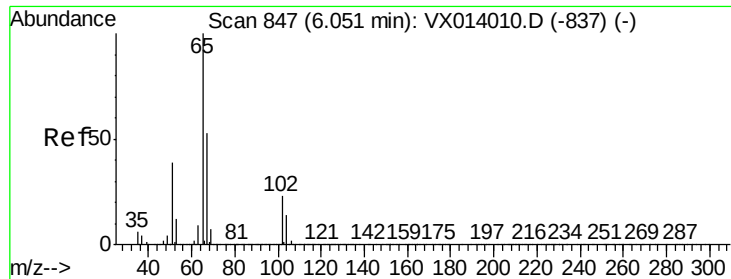
Bromochloromethane
Concen: 0.646 ug/l
RT: 5.02 min Scan# 678
Delta R.T. 0.02 min
Lab File: VX014281.D
Acq: 26 Dec 2019 19:50

Tgt Ion: 49 Resp: 745
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.0
130 64.8 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





#33

1,2-Dichloroethane-d4

Concen: 49.415 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014281.D

Acq: 26 Dec 2019 19:50

Instrument :

MSVOA_X

ClientSampleId :

991-MW-01-(23)DL

Tgt Ion: 65 Resp: 294060

Ion Ratio Lower Upper

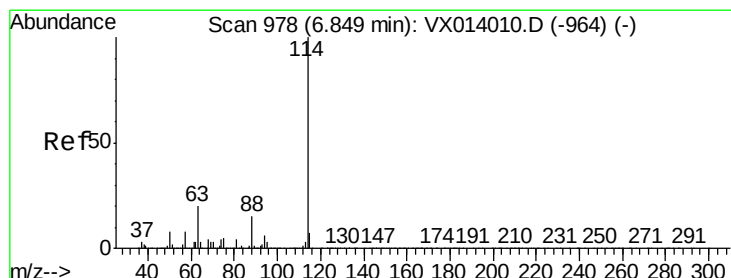
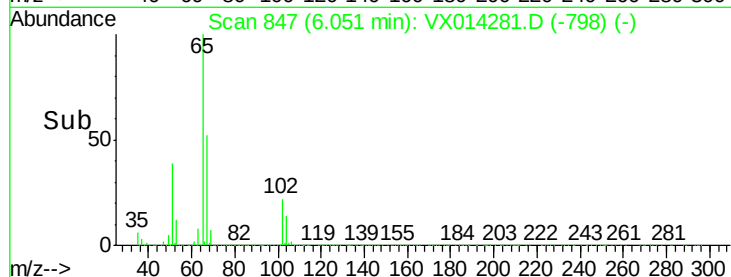
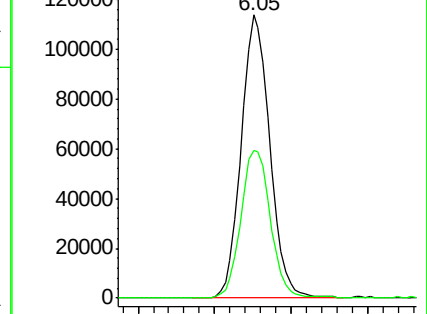
65 100

67 53.6 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: VX014281.D

Acq: 26 Dec 2019 19:50

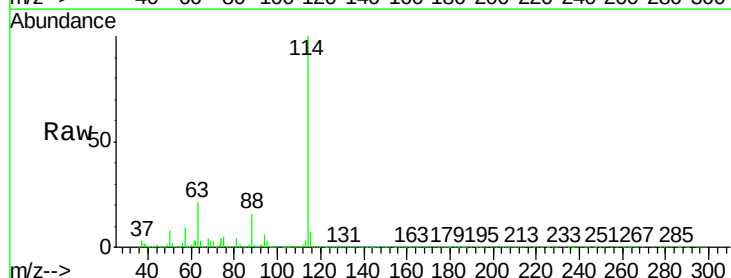
Tgt Ion: 114 Resp: 807481

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

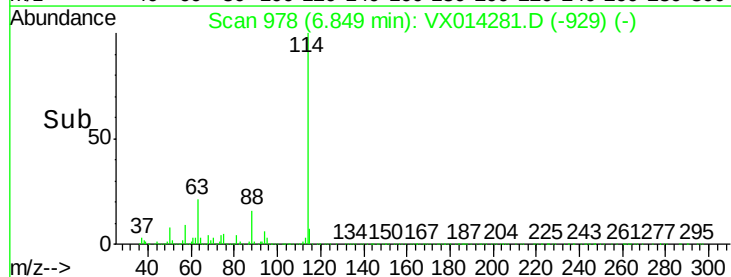
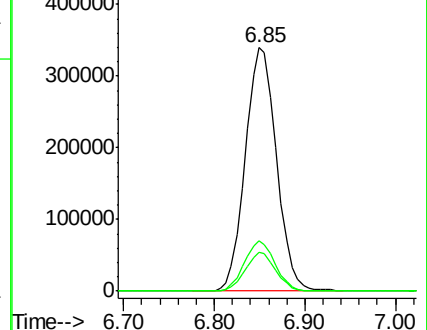
88 15.9 0.0 30.4

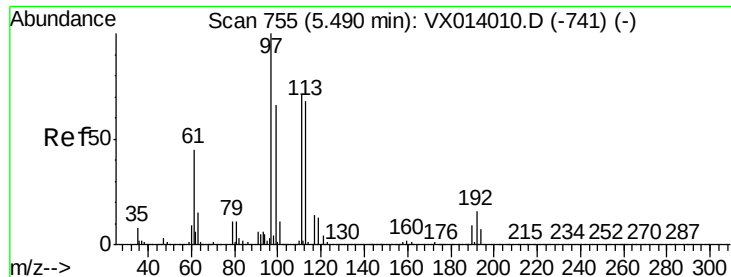


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.077 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014281.D

Acq: 26 Dec 2019 19:50

Instrument :

MSVOA_X

ClientSampleId :

991-MW-01-(23)DL

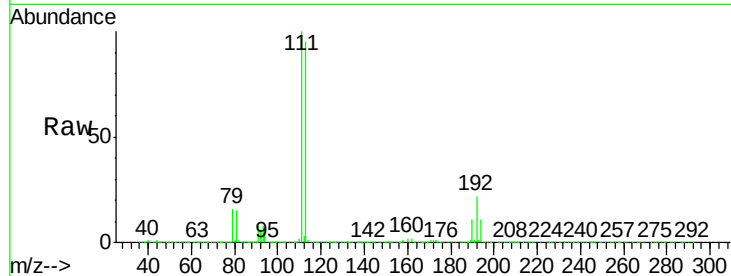
Tgt Ion: 113 Resp: 240899

Ion Ratio Lower Upper

113 100

111 102.6 82.0 123.0

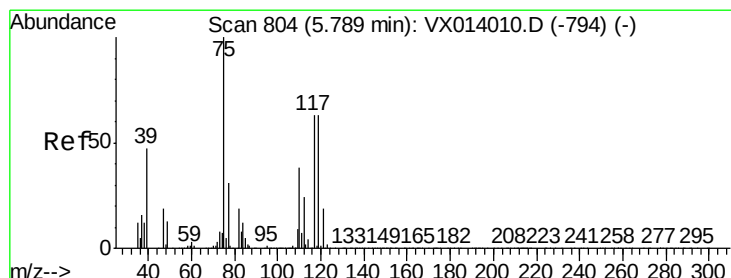
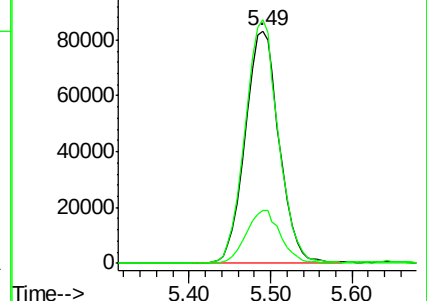
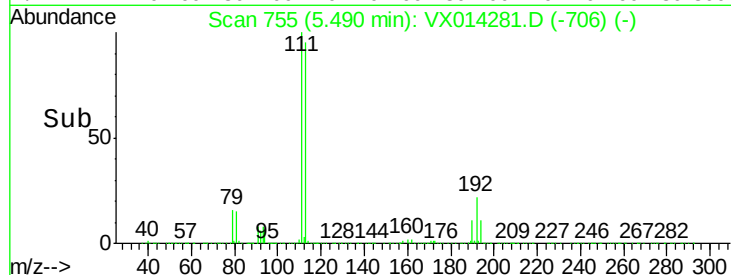
192 23.3 19.3 28.9



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: 4.936 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014281.D

Acq: 26 Dec 2019 19:50

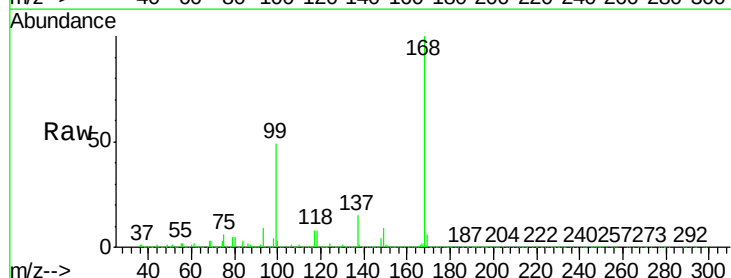
Tgt Ion: 75 Resp: 36571

Ion Ratio Lower Upper

75 100

110 10.1 18.3 54.9#

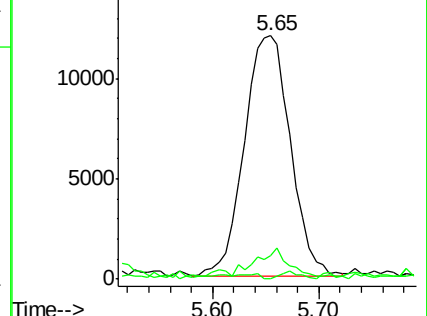
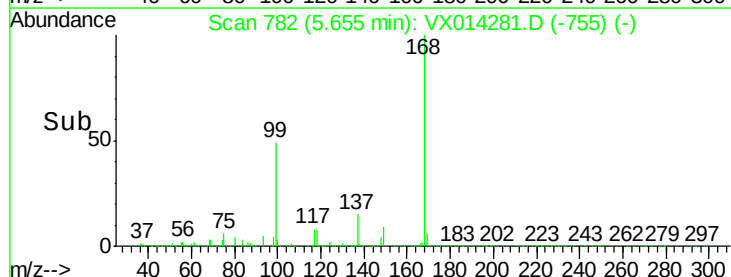
77 0.7 24.8 37.2#

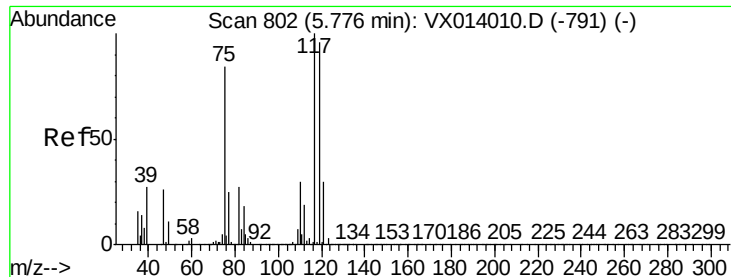


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.769 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014281.D

Acq: 26 Dec 2019 19:50

Instrument :

MSVOA_X

ClientSampleId :

991-MW-01-(23)DL

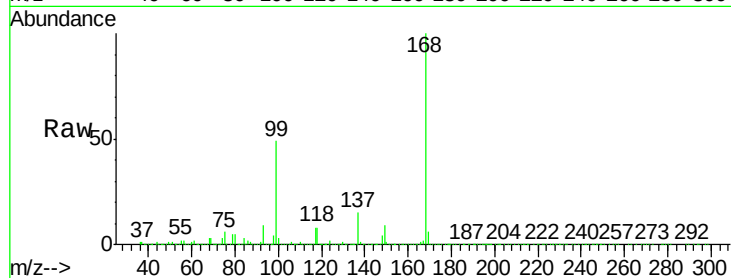
Tgt Ion:117 Resp: 45690

Ion Ratio Lower Upper

117 100

119 4.3 76.2 114.4#

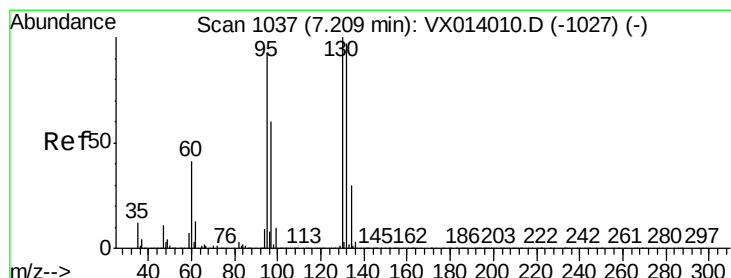
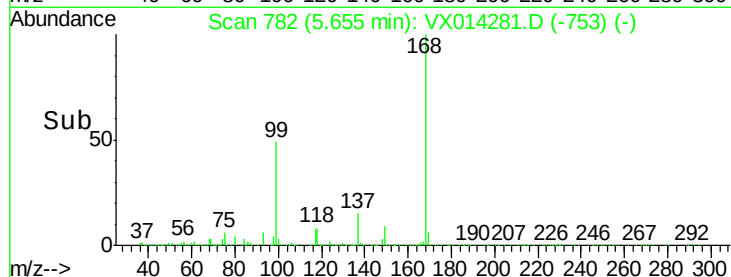
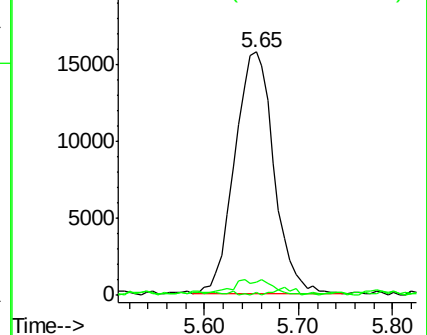
121 0.3 23.6 35.4#



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



#44

Trichloroethene

Concen: 4.820 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014281.D

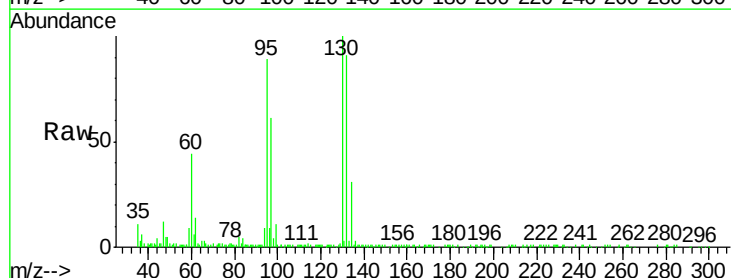
Acq: 26 Dec 2019 19:50

Tgt Ion:130 Resp: 30352

Ion Ratio Lower Upper

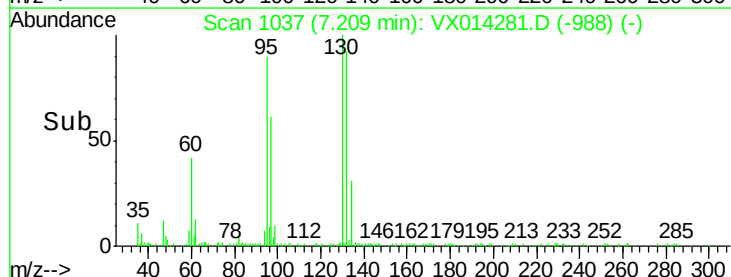
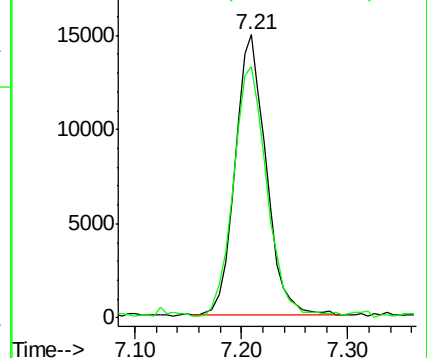
130 100

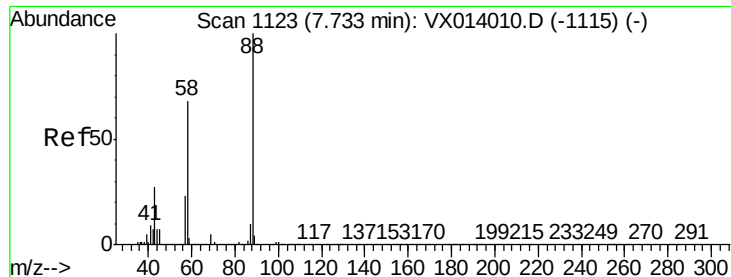
95 89.2 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 1.586 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014281.D

Acq: 26 Dec 2019 19:50

Instrument :

MSVOA_X

ClientSampleID :

991-MW-01-(23)DL

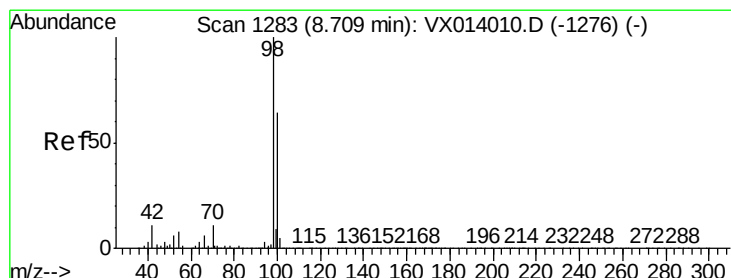
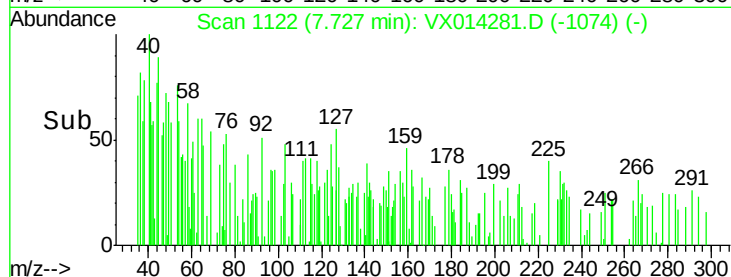
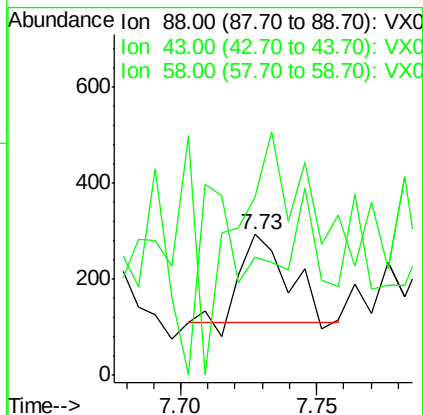
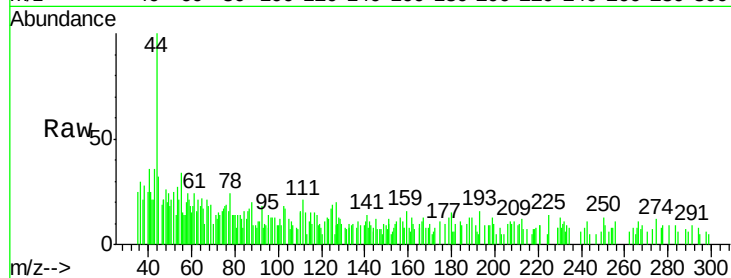
Tgt Ion: 88 Resp: 214

Ion Ratio Lower Upper

88 100

43 525.7 26.5 39.7#

58 150.9 56.8 85.2#



#50

Toluene-d8

Concen: 50.787 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014281.D

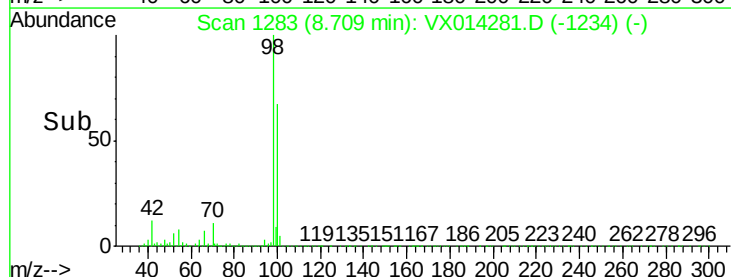
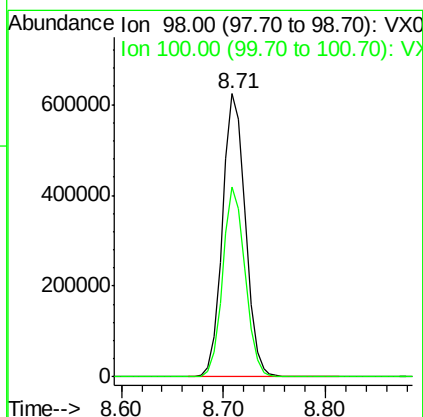
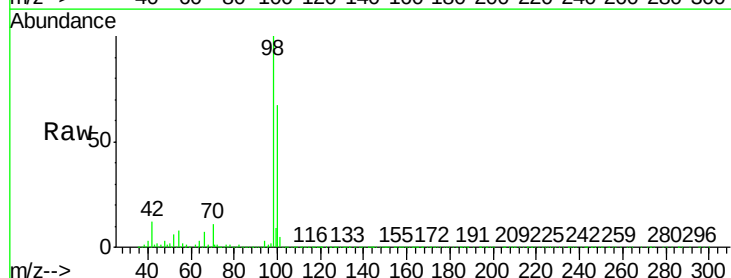
Acq: 26 Dec 2019 19:50

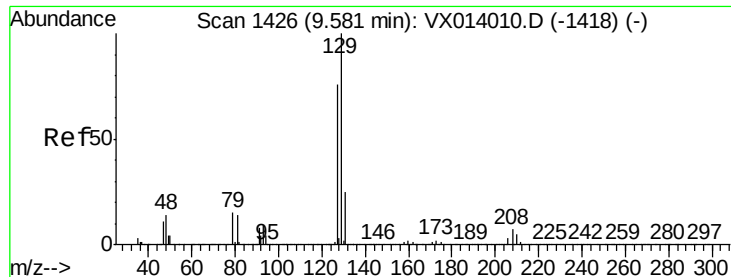
Tgt Ion: 98 Resp: 970563

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3





#60

Dibromochloromethane

Concen: 40.964 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX014281.D

Acq: 26 Dec 2019 19:50

Instrument :

MSVOA_X

ClientSampleId :

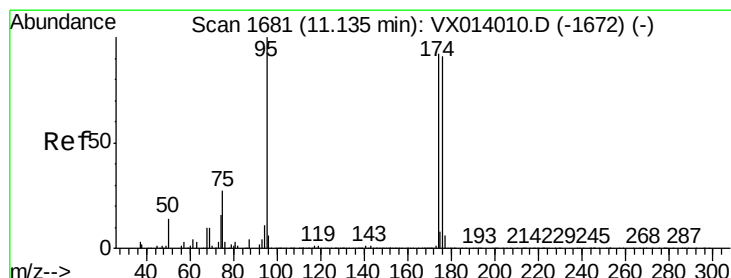
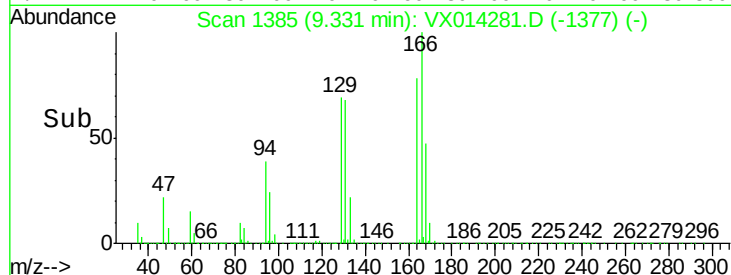
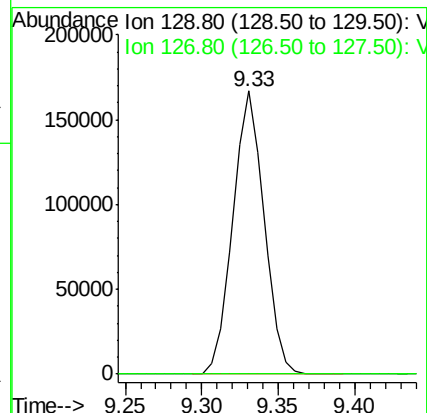
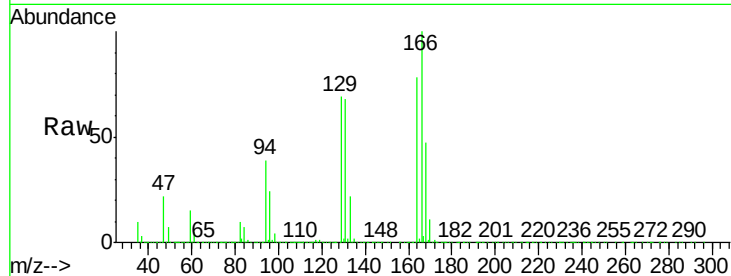
991-MW-01-(23)DL

Tgt Ion:129 Resp: 235150

Ion Ratio Lower Upper

129 100

127 0.2 38.4 115.2#



#62

4-Bromofluorobenzene

Concen: 46.344 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014281.D

Acq: 26 Dec 2019 19:50

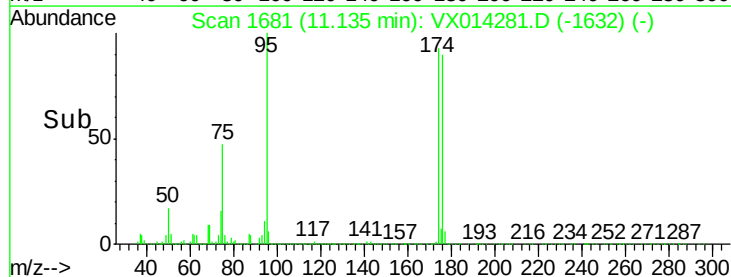
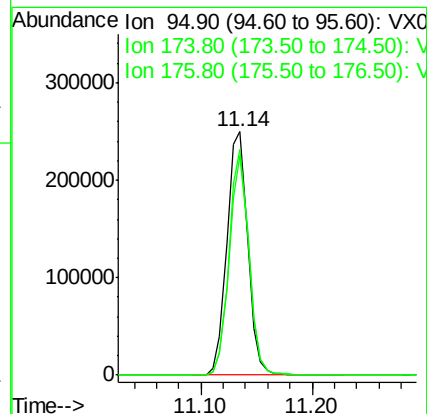
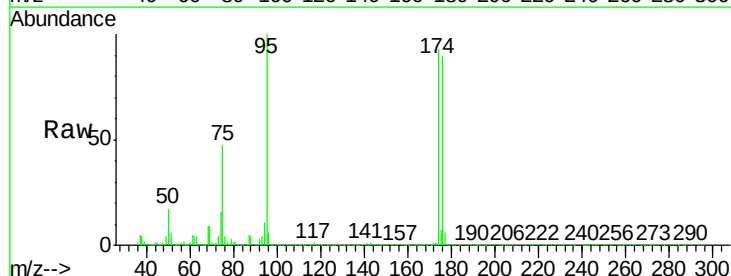
Tgt Ion: 95 Resp: 323745

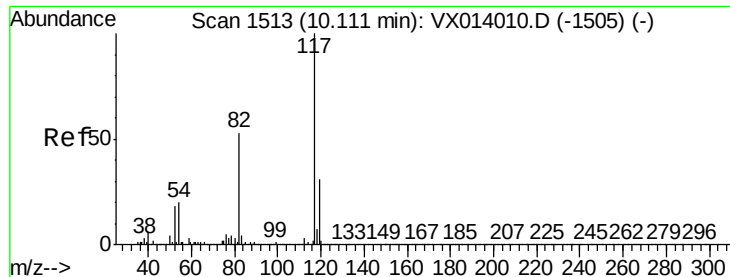
Ion Ratio Lower Upper

95 100

174 88.3 0.0 175.8

176 85.3 0.0 173.0

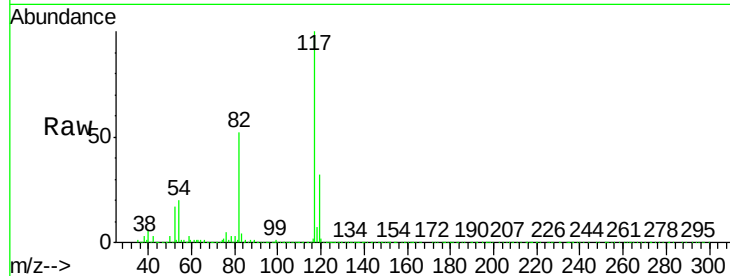




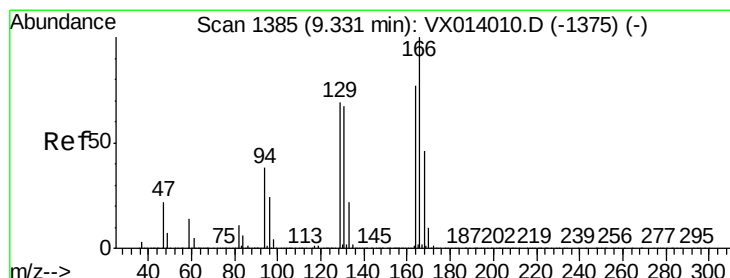
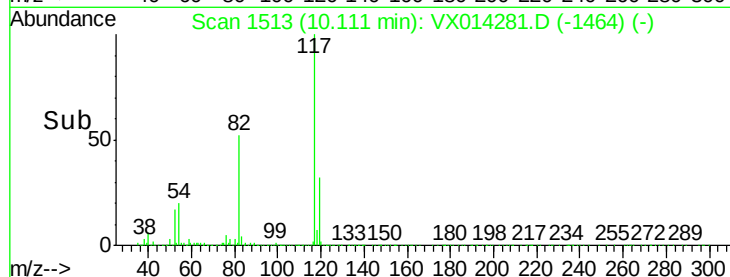
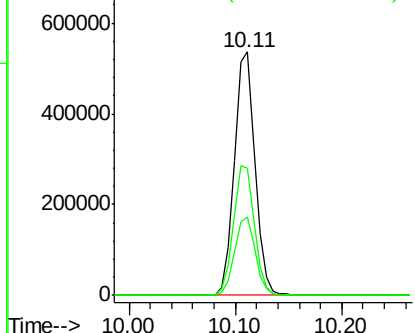
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014281.D
Acq: 26 Dec 2019 19:50

Instrument :
MSVOA_X
ClientSampleId :
991-MW-01-(23)DL

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.0	42.2	63.4
119	32.1	25.1	37.7



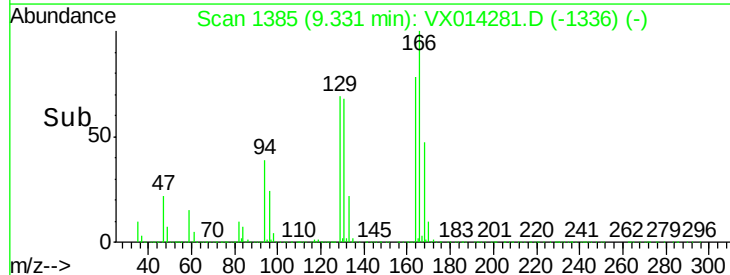
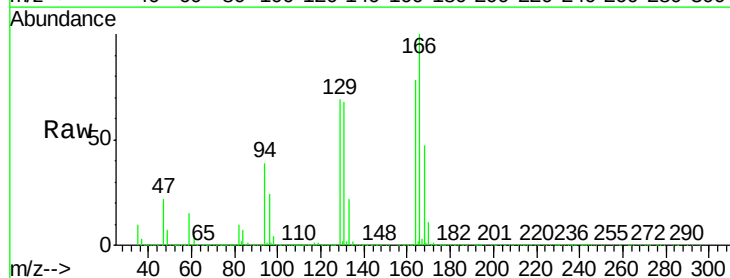
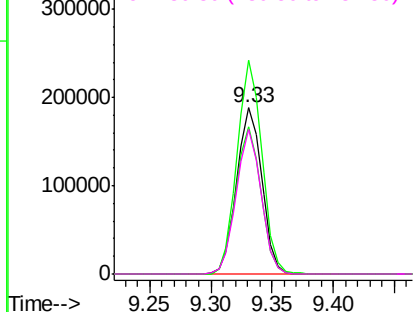
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

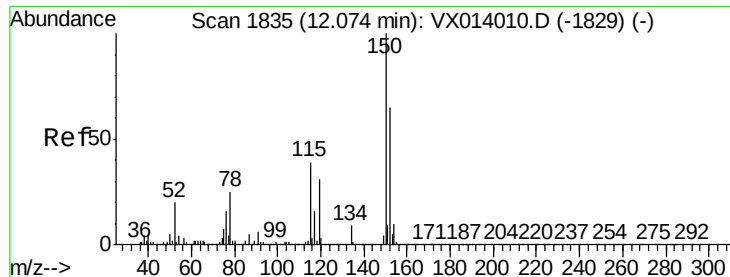


#64
Tetrachloroethene
Concen: 41.204 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX014281.D
Acq: 26 Dec 2019 19:50

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.5	104.0	156.0
129	88.7	72.2	108.4
131	87.4	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: VX014281.D

Acq: 26 Dec 2019 19:50

Instrument :

MSVOA_X

ClientSampleId :

991-MW-01-(23)DL

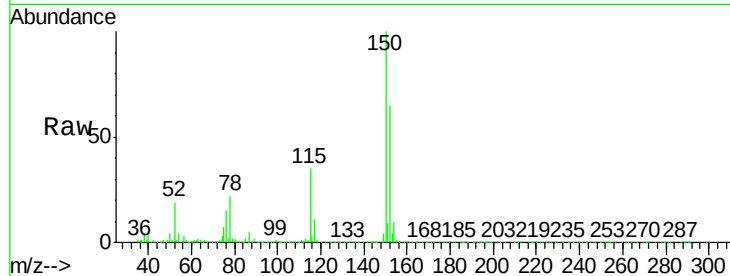
Tgt Ion: 152 Resp: 319659

Ion Ratio Lower Upper

152 100

115 54.9 38.3 114.9

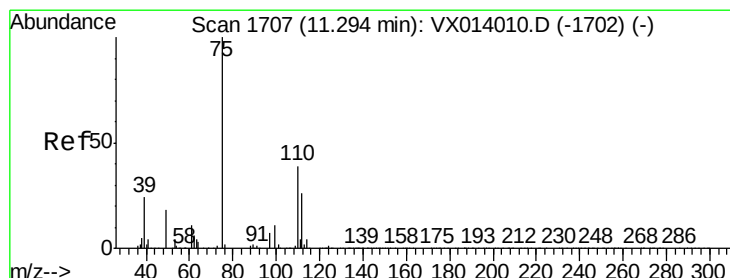
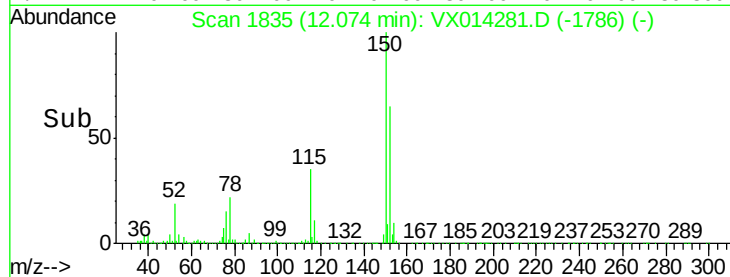
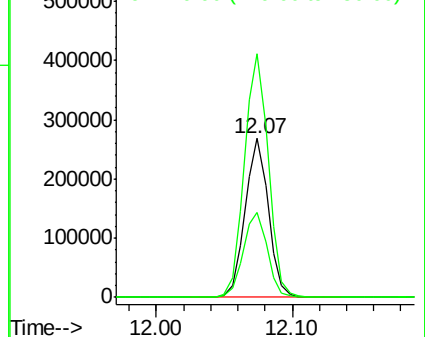
150 157.5 0.0 345.4



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: 22.694 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014281.D

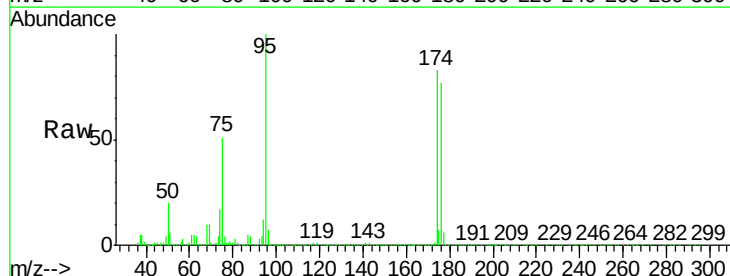
Acq: 26 Dec 2019 19:50

Tgt Ion: 75 Resp: 157493

Ion Ratio Lower Upper

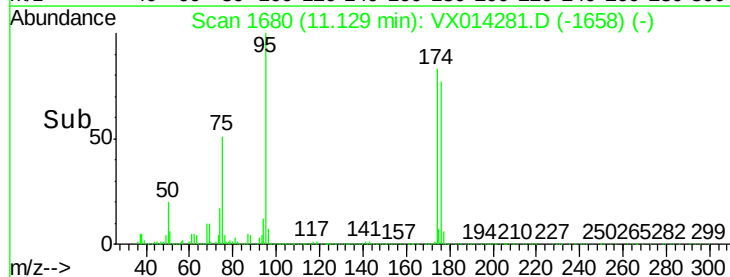
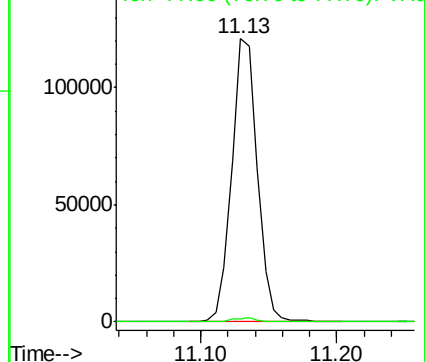
75 100

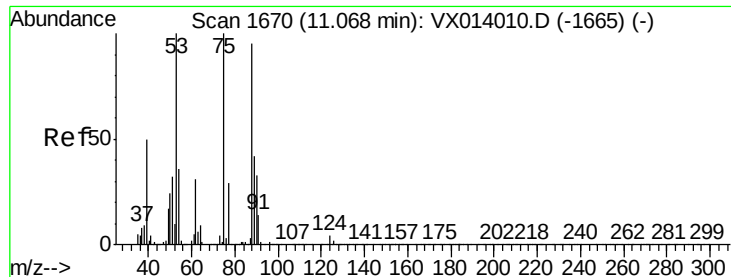
77 1.7 19.3 57.8#



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: 64.055 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014281.D

Acq: 26 Dec 2019 19:50

Instrument :

MSVOA_X

ClientSampleId :

991-MW-01-(23)DL

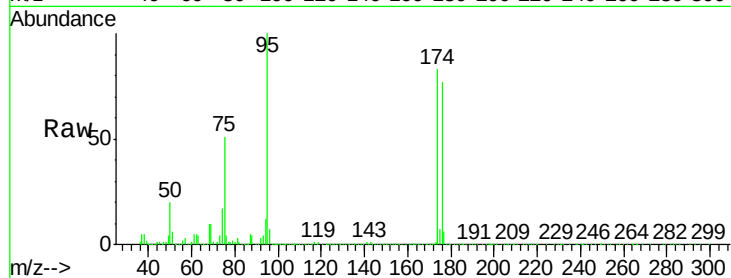
Tgt Ion: 75 Resp: 157493

Ion Ratio Lower Upper

75 100

53 0.6 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

