

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100819\
 Data File : VX012920.D
 Acq On : 09 Oct 2019 04:18
 Operator : JC/SP
 Sample : K5154-24
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 09 05:58:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	179034	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	304627	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	260699	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	103779	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	118744	53.07	ug/l	0.00
Spiked Amount			Recovery	=	106.14%	
35) Dibromofluoromethane	5.49	113	90217	51.60	ug/l	0.00
Spiked Amount			Recovery	=	103.20%	
50) Toluene-d8	8.71	98	356399	52.26	ug/l	0.00
Spiked Amount			Recovery	=	104.52%	
62) 4-Bromofluorobenzene	11.14	95	122185	46.11	ug/l	0.00
Spiked Amount			Recovery	=	92.22%	

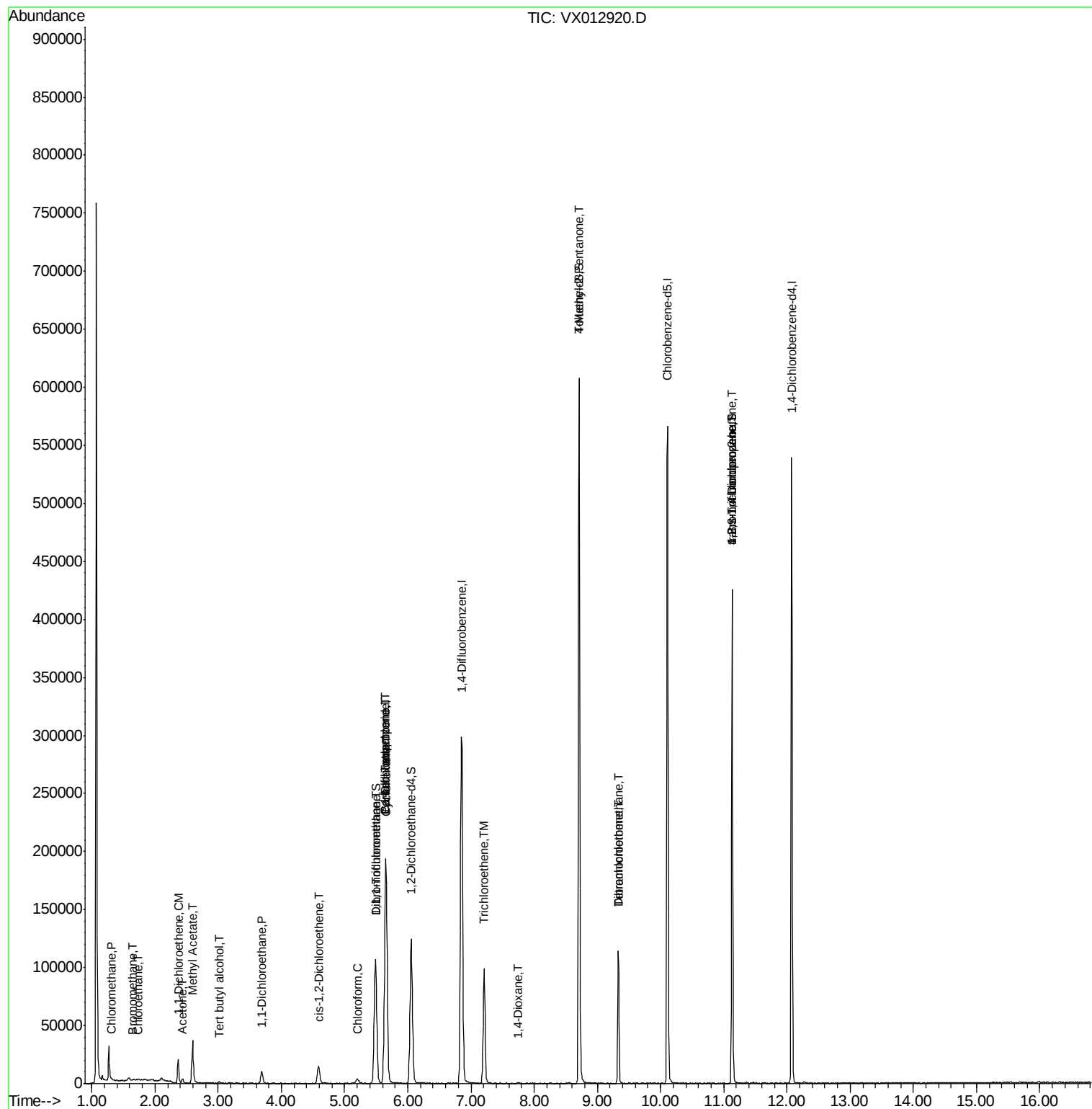
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	678	0.341	ug/l	100
5) Bromomethane	1.64	94	272	0.319	ug/l	83
6) Chloroethane	1.73	64	342	0.639	ug/l #	75
11) Tert butyl alcohol	3.02	59	1203	2.028	ug/l #	83
12) 1,1-Dichloroethene	2.37	96	6861	3.792	ug/l	84
16) Acetone	2.44	43	4322	3.664	ug/l	89
18) Methyl Acetate	2.59	43	10332	3.696	ug/l #	51
24) 1,1-Dichloroethane	3.69	63	11346	3.267	ug/l	95
27) cis-1,2-Dichloroethene	4.59	96	9356	4.186	ug/l	89
28) Bromochloromethane	5.20	49	348	Below Cal	#	13
30) Chloroform	5.21	83	4923	1.381	ug/l	89
31) Cyclohexane	5.66	56	3832	1.180	ug/l #	25
32) 1,1,1-Trichloroethane	5.49	97	2638	0.874	ug/l #	46
36) 1,1-Dichloropropene	5.65	75	14245	5.319	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18908	7.253	ug/l #	17
44) Trichloroethene	7.21	130	38022	17.333	ug/l	88
49) 1,4-Dioxane	7.75	88	399	41.209	ug/l #	83
51) 4-Methyl-2-Pentanone	8.71	43	1771	0.591	ug/l #	1
60) Dibromochloromethane	9.33	129	21213	11.022	ug/l #	10
64) Tetrachloroethene	9.33	164	21345	11.805	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	62503	27.154	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	62503	68.206	ug/l #	10

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

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Quant Title : SW846 8260
QLast Update : Wed Oct 09 01:51:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX012920.D

Acq: 09 Oct 2019 04:18

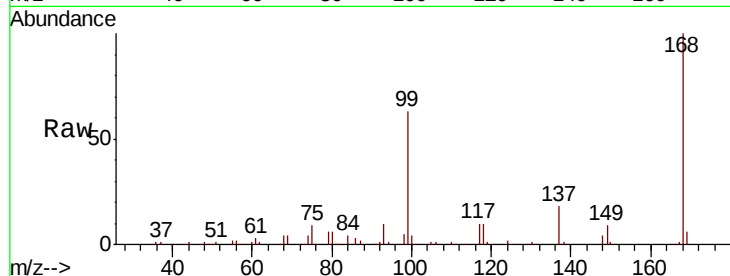
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 179034

Ion Ratio Lower Upper

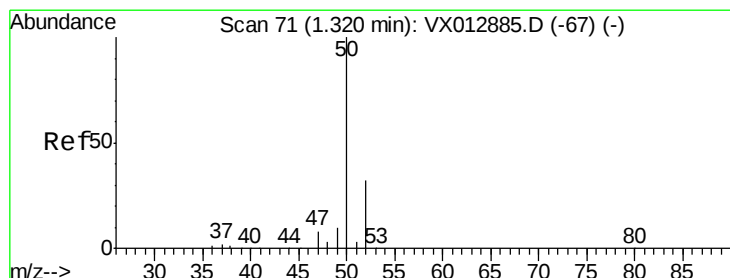
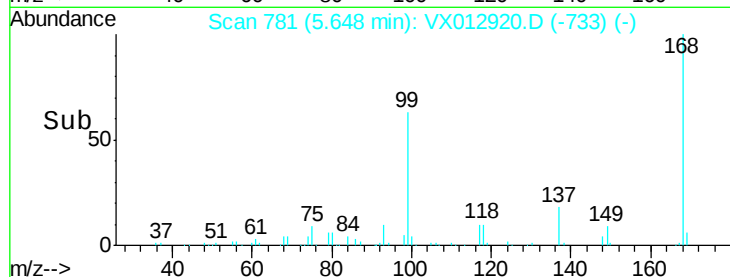
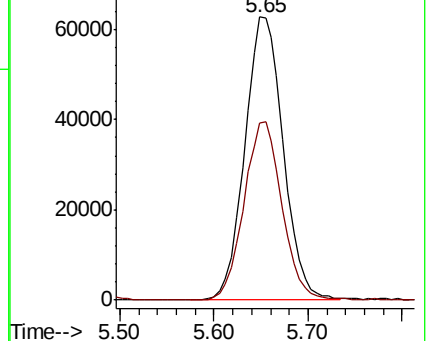
168 100

99 62.7 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.341 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX012920.D

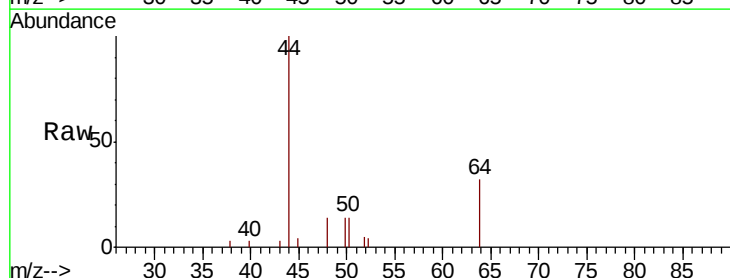
Acq: 09 Oct 2019 04:18

Tgt Ion: 50 Resp: 678

Ion Ratio Lower Upper

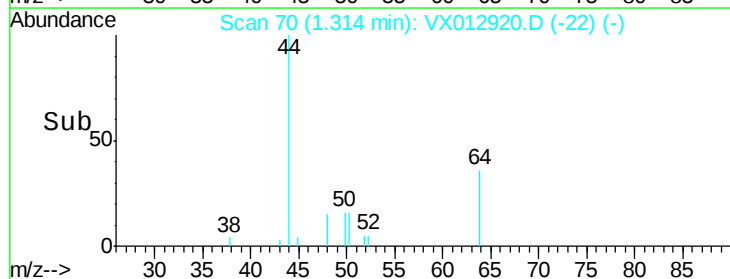
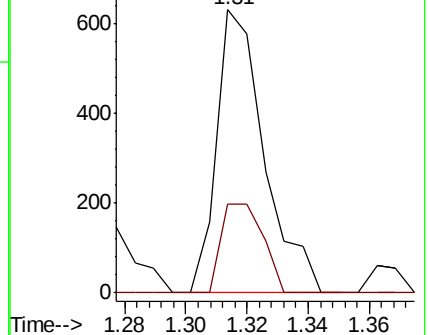
50 100

52 31.3 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.319 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX012920.D

Acq: 09 Oct 2019 04:18

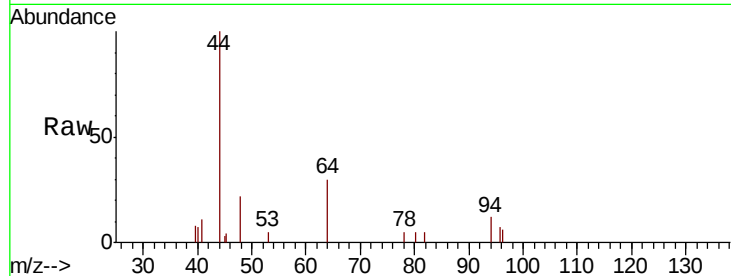
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 272

Ion Ratio Lower Upper

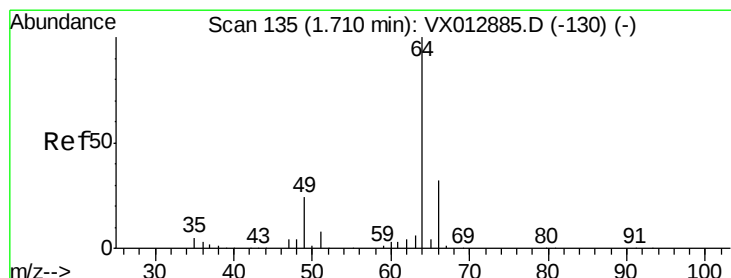
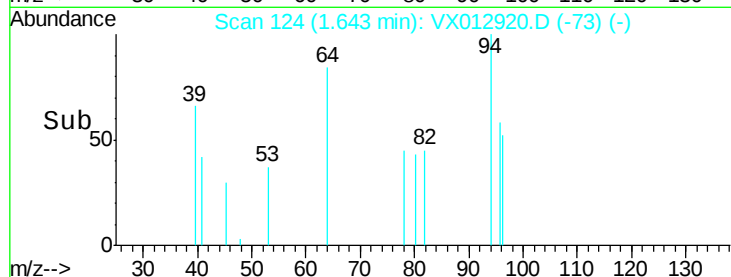
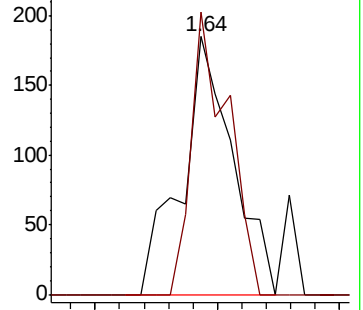
94 100

96 109.7 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.639 ug/l

RT: 1.73 min Scan# 139

Delta R.T. 0.02 min

Lab File: VX012920.D

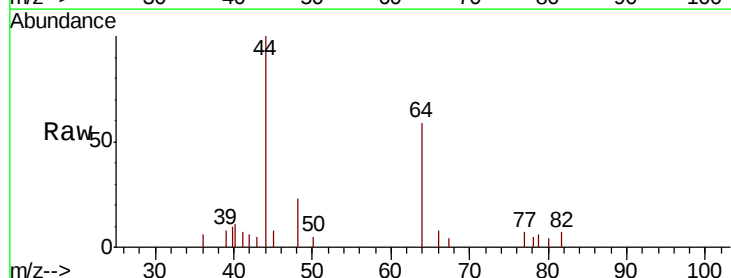
Acq: 09 Oct 2019 04:18

Tgt Ion: 64 Resp: 342

Ion Ratio Lower Upper

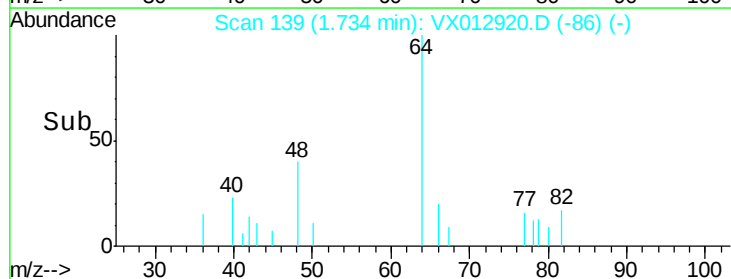
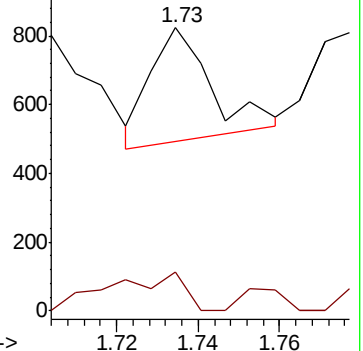
64 100

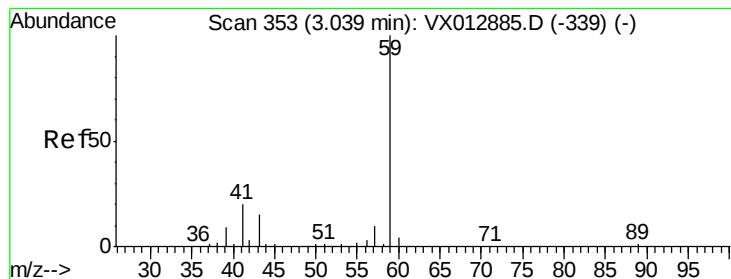
66 17.9 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



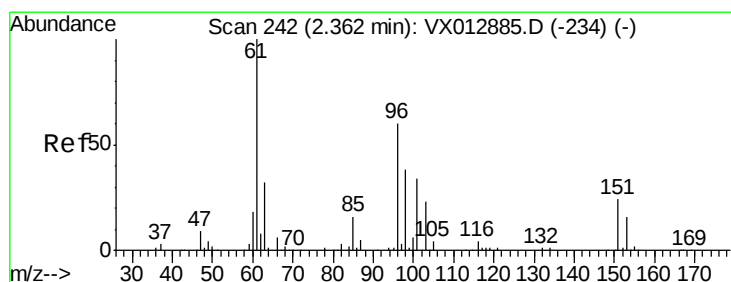
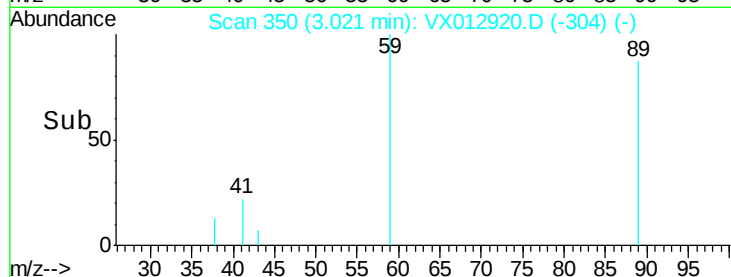
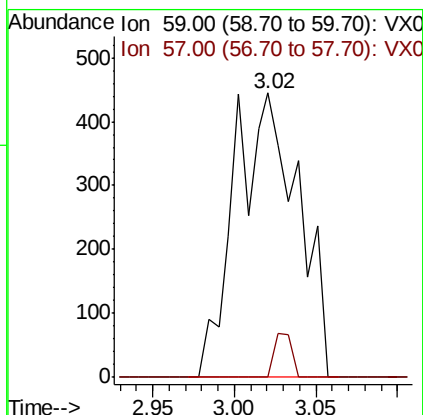
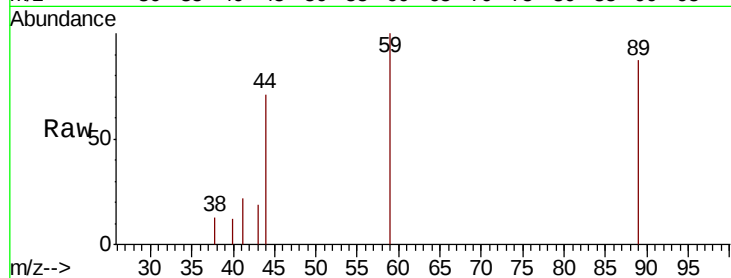


#11

Tert butyl alcohol
Concen: 2.028 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX012920.D
Acq: 09 Oct 2019 04:18

Instrument :
MSVOA_X
ClientSampleId :

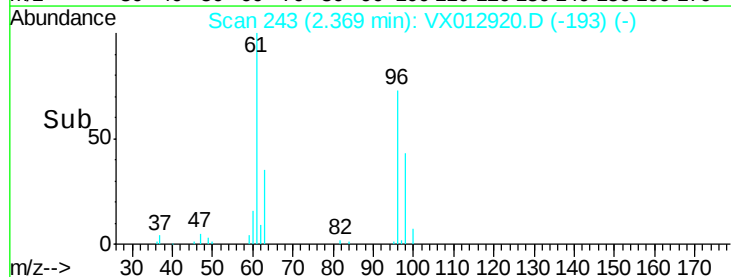
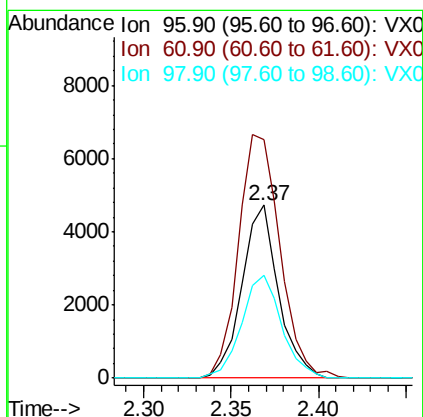
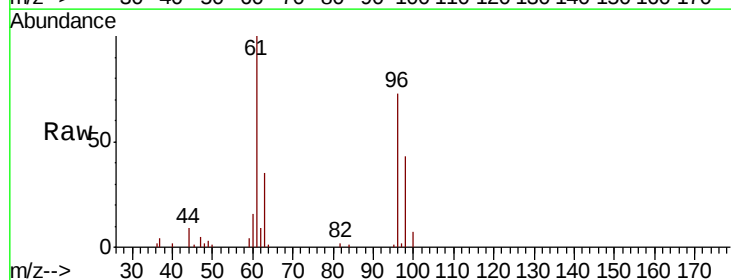
Tot Ion: 59 Resp: 1203
Ion Ratio Lower Upper
59 100
57 4.1 8.3 12.5#

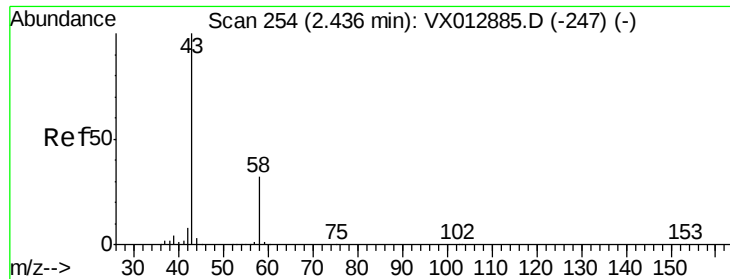


#12

1,1-Dichloroethene
Concen: 3.792 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX012920.D
Acq: 09 Oct 2019 04:18

Tgt Ion: 96 Resp: 6861
Ion Ratio Lower Upper
96 100
61 137.8 132.2 198.4
98 59.1 50.5 75.7





#16

Acetone

Concen: 3.664 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX012920.D

Acq: 09 Oct 2019 04:18

Instrument :

MSVOA_X

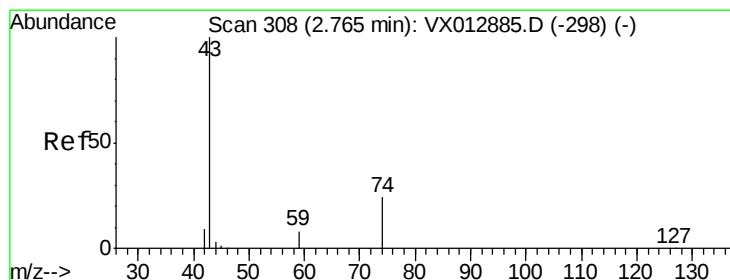
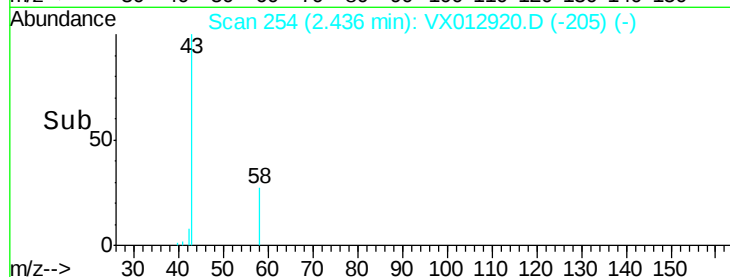
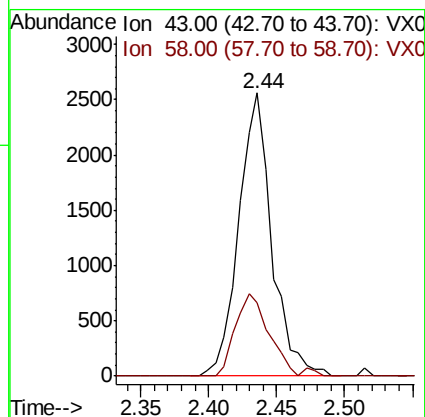
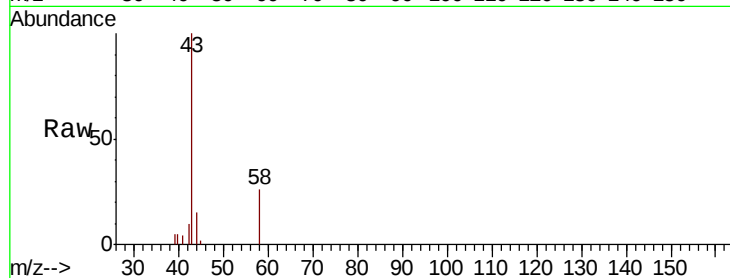
ClientSampleId :

Tot Ion: 43 Resp: 4322

Ion Ratio Lower Upper

43 100

58 25.9 25.4 38.2



#18

Methyl Acetate

Concen: 3.696 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012920.D

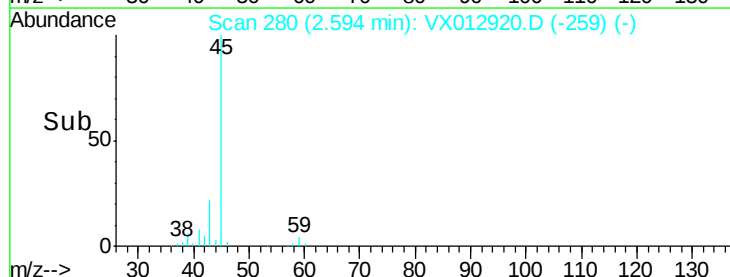
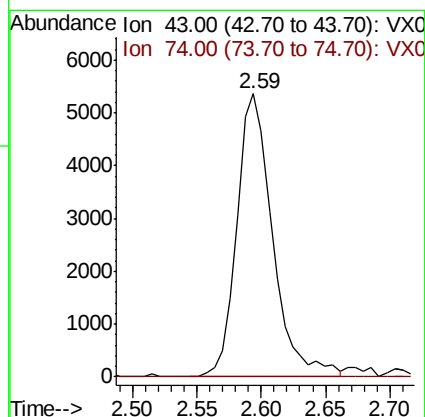
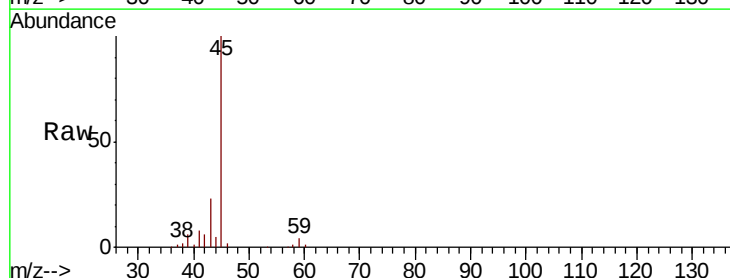
Acq: 09 Oct 2019 04:18

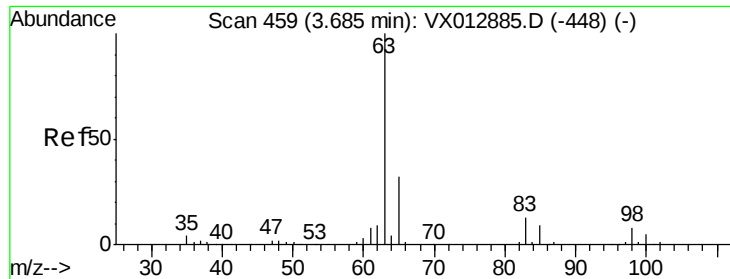
Tgt Ion: 43 Resp: 10332

Ion Ratio Lower Upper

43 100

74 0.0 19.2 28.8#





#24

1,1-Dichloroethane

Concen: 3.267 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX012920.D

Acq: 09 Oct 2019 04:18

Instrument :
MSVOA_X
ClientSampleId :

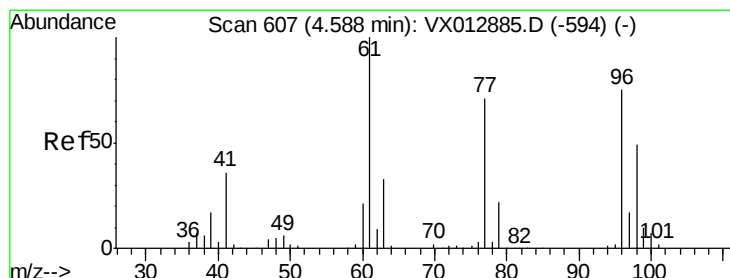
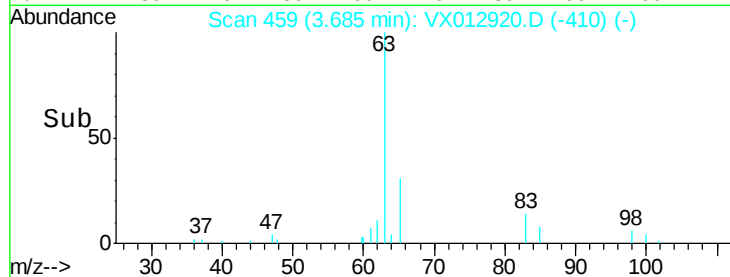
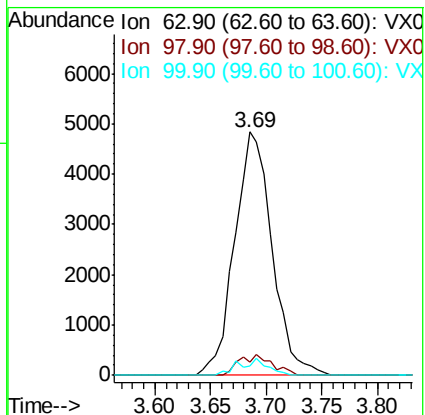
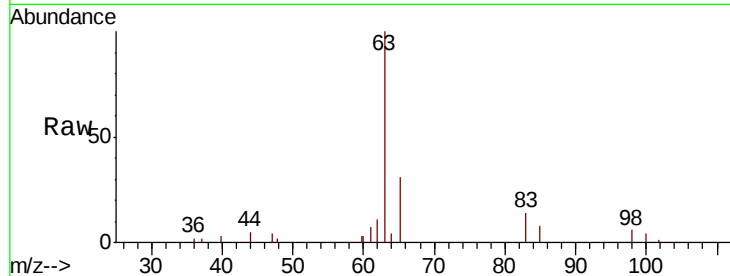
Tot Ion: 63 Resp: 11346

Ion Ratio Lower Upper

63 100

98 5.6 3.9 11.5

100 3.8 2.3 6.9



#27

cis-1,2-Dichloroethene

Concen: 4.186 ug/l

RT: 4.59 min Scan# 607

Delta R.T. -0.00 min

Lab File: VX012920.D

Acq: 09 Oct 2019 04:18

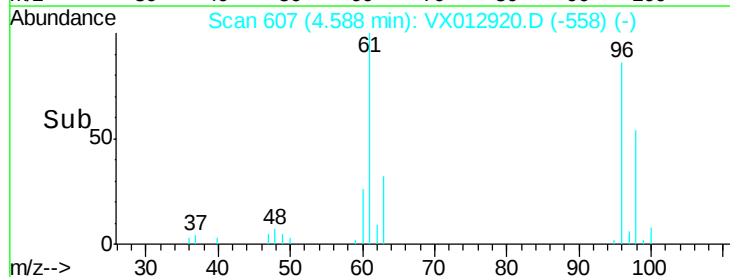
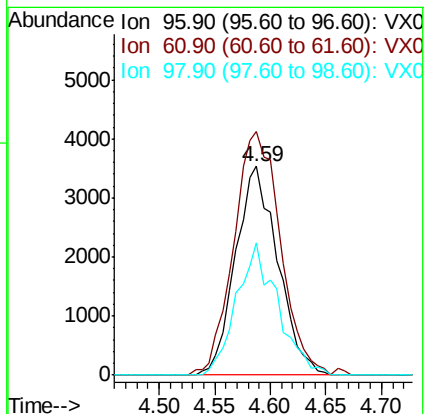
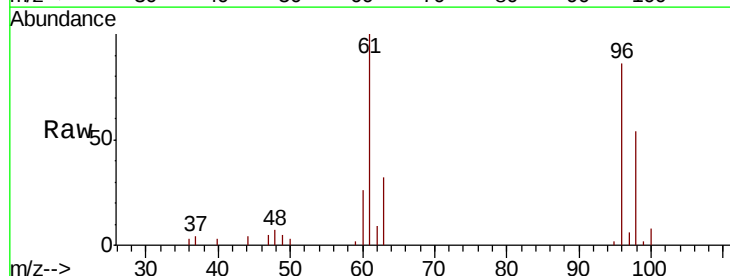
Tgt Ion: 96 Resp: 9356

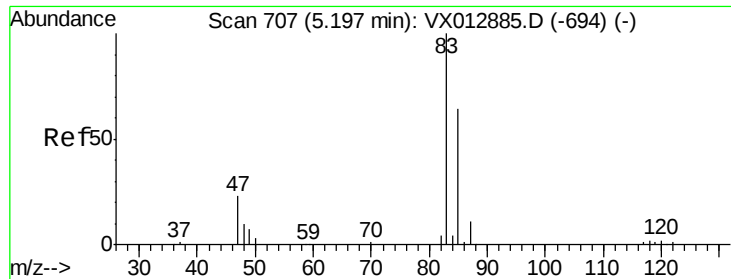
Ion Ratio Lower Upper

96 100

61 128.1 0.0 290.6

98 61.6 0.0 128.8

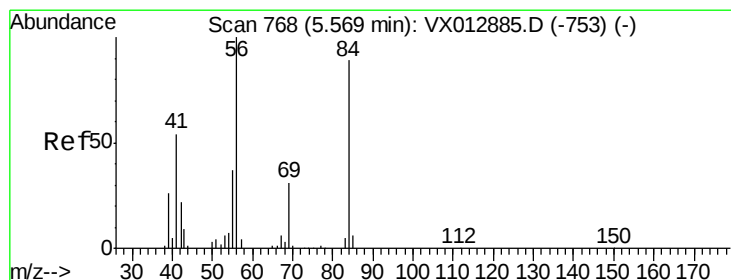
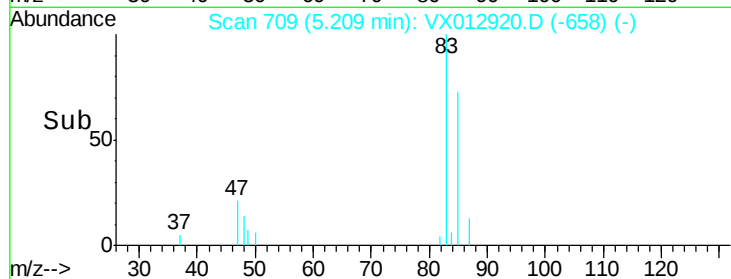
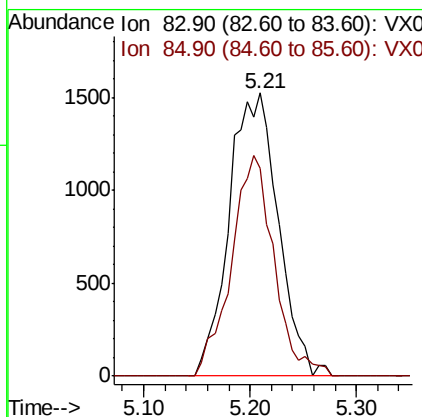
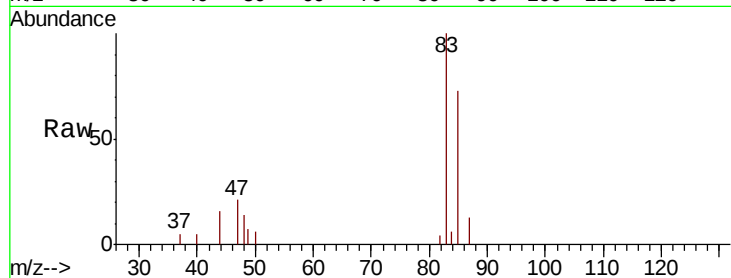




#30
Chloroform
Concen: 1.381 ug/l
RT: 5.21 min Scan# 709
Delta R.T. 0.01 min
Lab File: VX012920.D
Acq: 09 Oct 2019 04:18

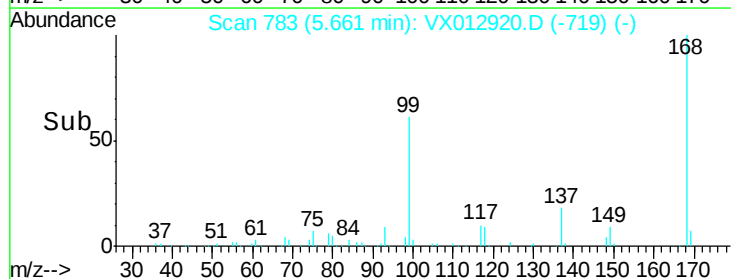
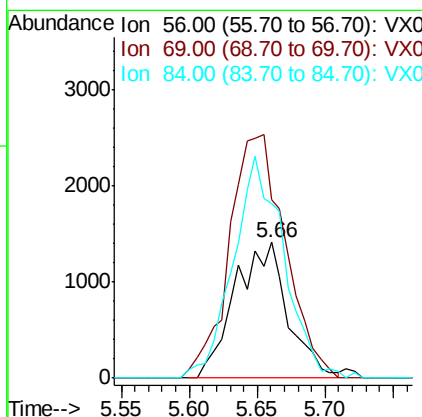
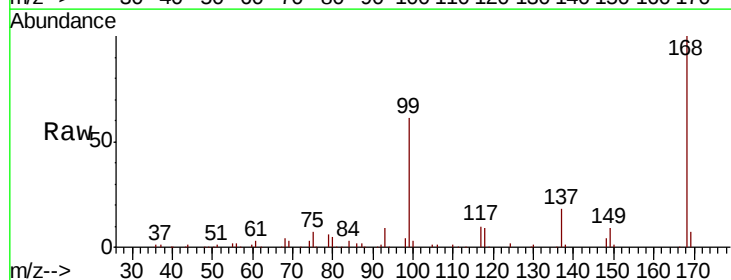
Instrument :
MSVOA_X
ClientSampleId :

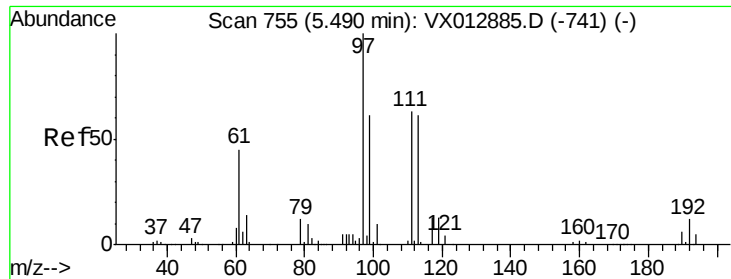
Tot Ion: 83 Resp: 4923
Ion Ratio Lower Upper
83 100
85 73.3 51.5 77.3



#31
Cyclohexane
Concen: 1.180 ug/l
RT: 5.66 min Scan# 783
Delta R.T. 0.09 min
Lab File: VX012920.D
Acq: 09 Oct 2019 04:18

Tgt Ion: 56 Resp: 3832
Ion Ratio Lower Upper
56 100
69 131.6 25.2 37.8#
84 123.7 71.3 106.9#





#32

1,1,1-Trichloroethane

Concen: 0.874 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX012920.D

Acq: 09 Oct 2019 04:18

Instrument :

MSVOA_X

ClientSampled :

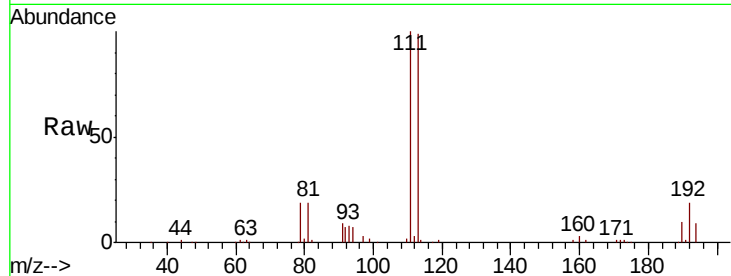
Tot Ion: 97 Resp: 2638

Ion Ratio Lower Upper

97 100

99 0.0 52.3 78.5#

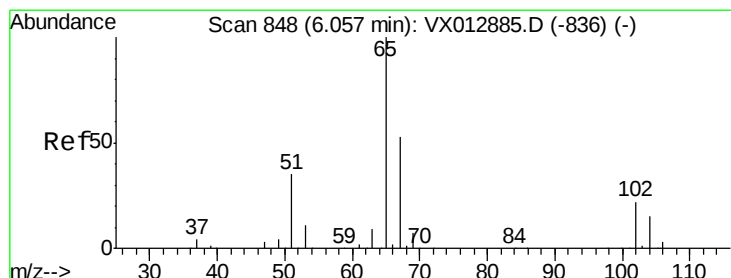
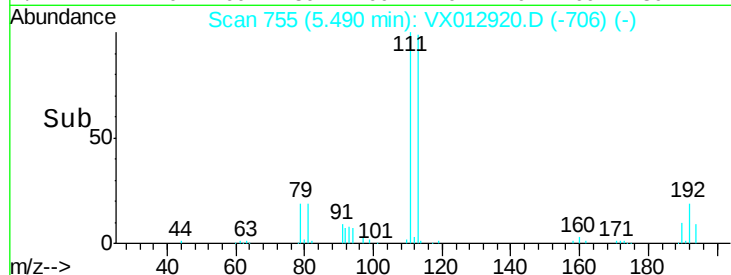
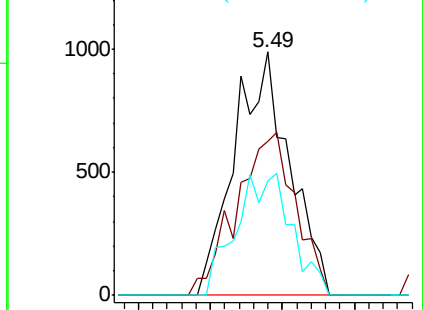
61 50.4 35.0 52.4



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 53.065 ug/l

RT: 6.06 min Scan# 848

Delta R.T. -0.00 min

Lab File: VX012920.D

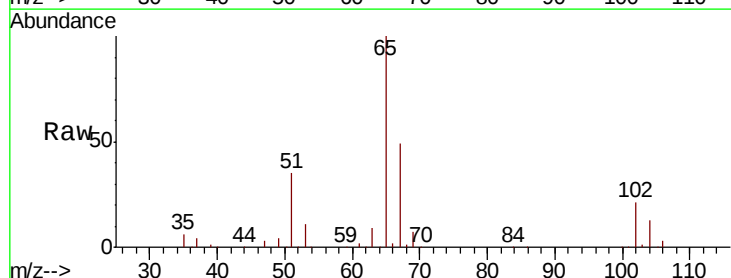
Acq: 09 Oct 2019 04:18

Tgt Ion: 65 Resp: 118744

Ion Ratio Lower Upper

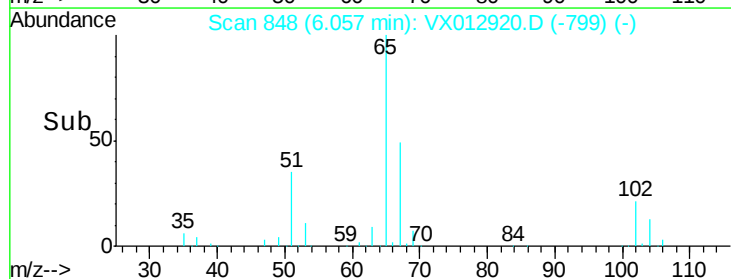
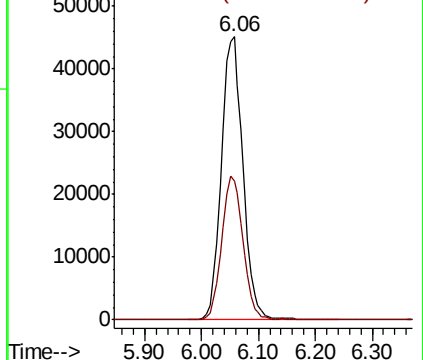
65 100

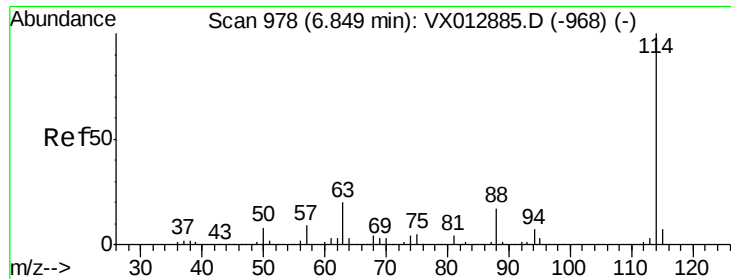
67 50.2 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

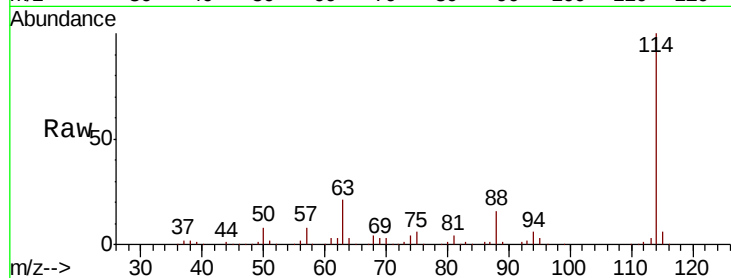




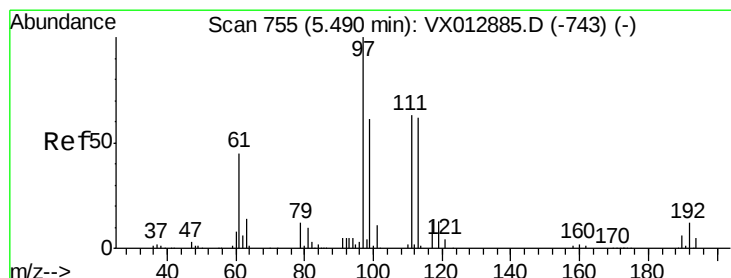
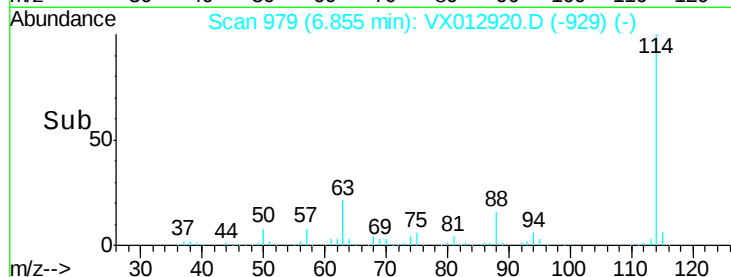
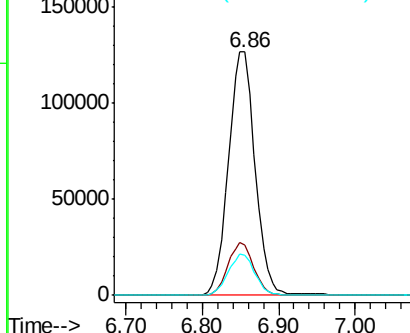
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VX012920.D
 Acq: 09 Oct 2019 04:18

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 304627
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.8
 88 16.4 0.0 33.8

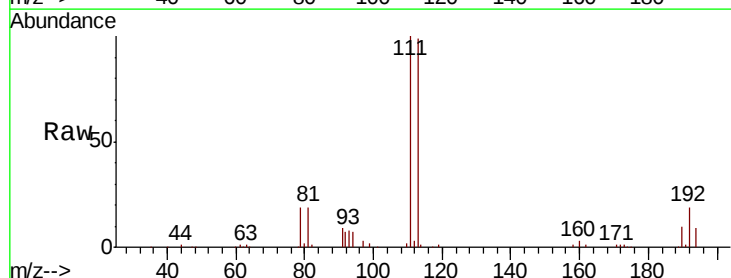


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

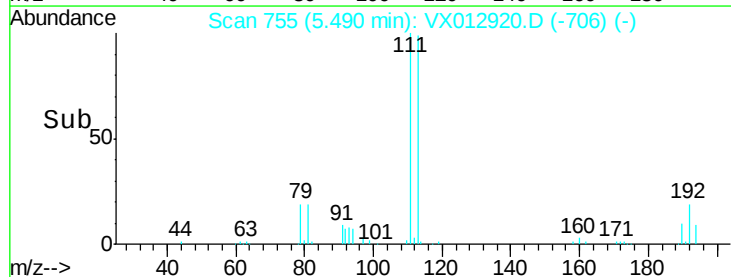
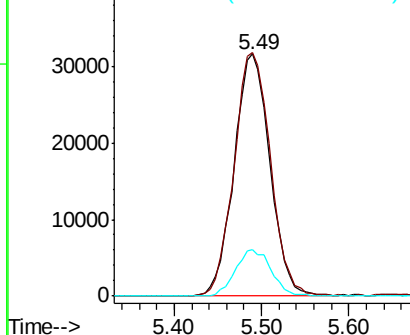


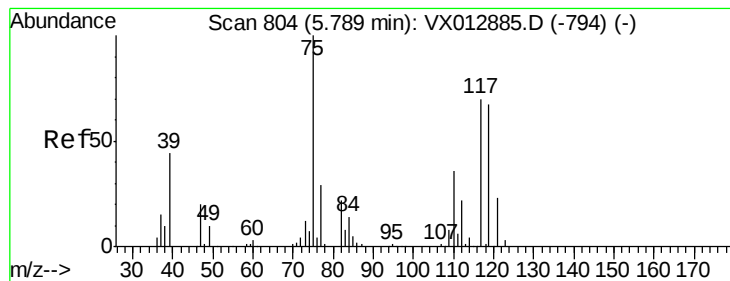
#35
 Dibromofluoromethane
 Concen: 51.600 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX012920.D
 Acq: 09 Oct 2019 04:18

Tgt Ion:113 Resp: 90217
 Ion Ratio Lower Upper
 113 100
 111 102.3 83.2 124.8
 192 19.2 15.4 23.2



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: 5.319 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012920.D

Acq: 09 Oct 2019 04:18

Instrument :
MSVOA_X
ClientSampleId :

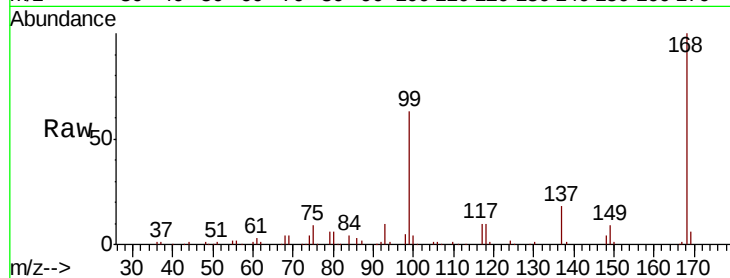
Tot Ion: 75 Resp: 14245

Ion Ratio Lower Upper

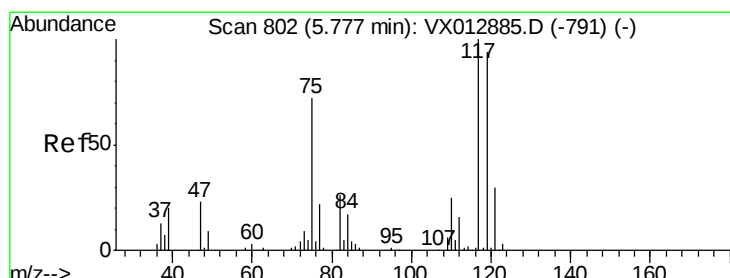
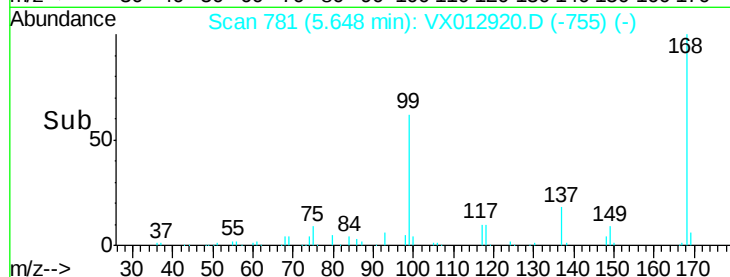
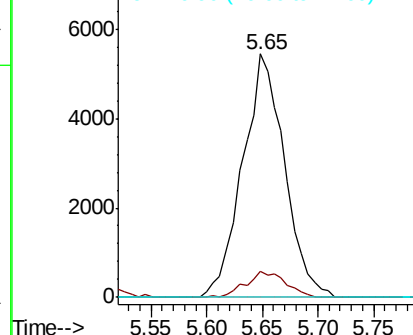
75 100

110 10.1 17.6 52.9#

77 0.0 24.4 36.6#



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: 7.253 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012920.D

Acq: 09 Oct 2019 04:18

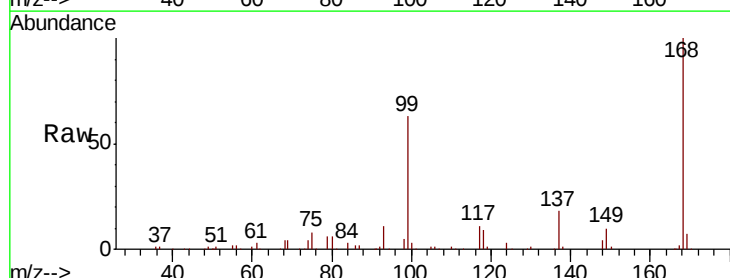
Tgt Ion: 117 Resp: 18908

Ion Ratio Lower Upper

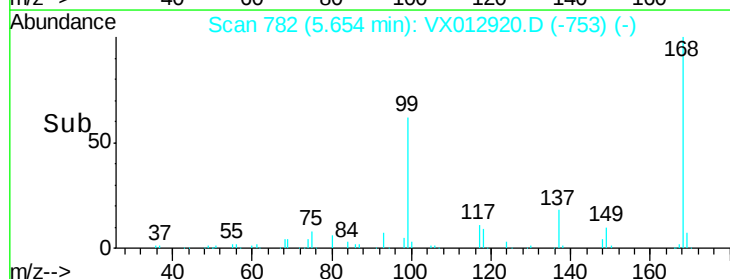
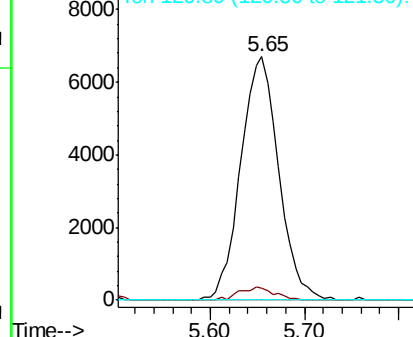
117 100

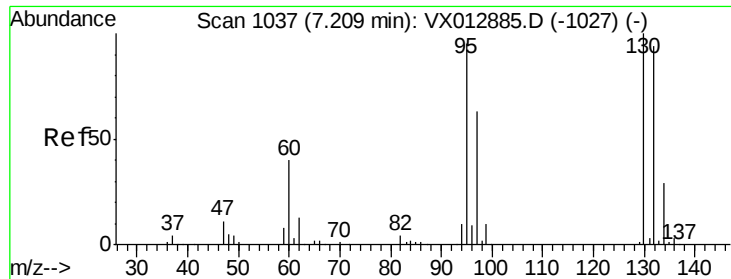
119 4.8 74.5 111.7#

121 0.0 24.2 36.4#



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

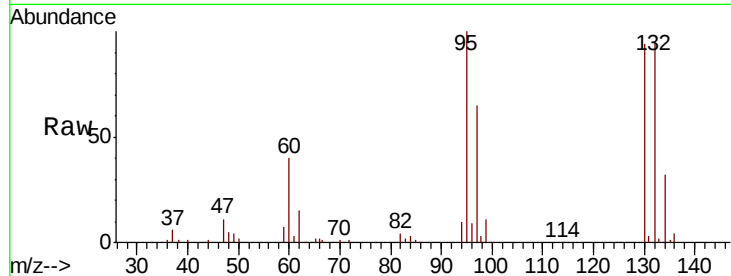




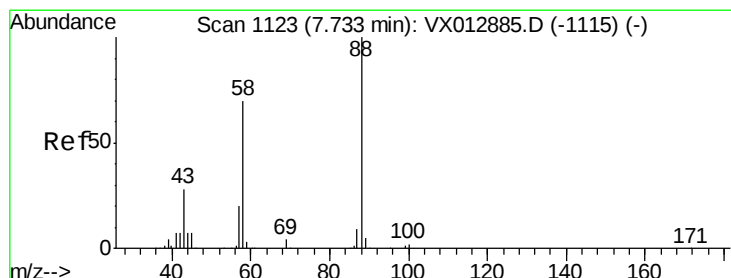
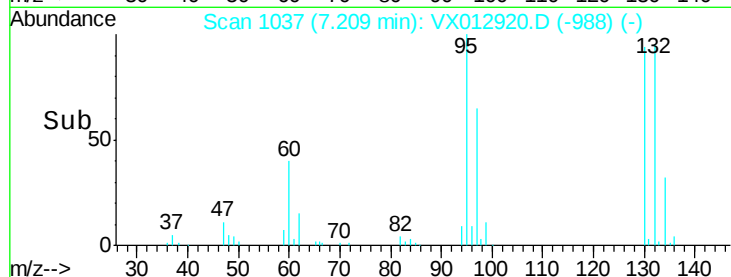
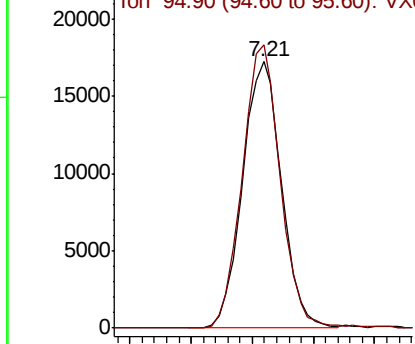
#44
 Trichloroethene
 Concen: 17.333 ug/l
 RT: 7.21 min Scan# 1037
 Delta R.T. -0.00 min
 Lab File: VX012920.D
 Acq: 09 Oct 2019 04:18

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:130 Resp: 38022
 Ion Ratio Lower Upper
 130 100
 95 106.2 0.0 189.2

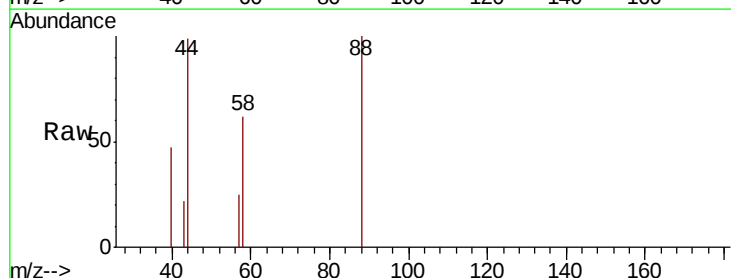


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

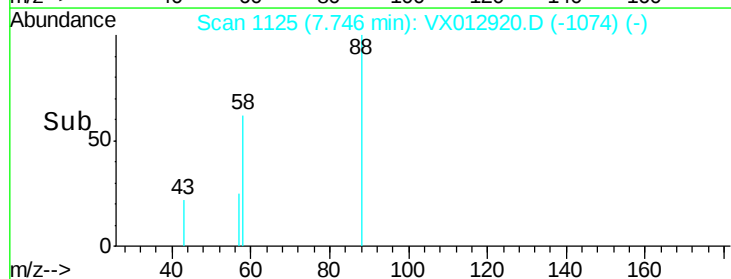
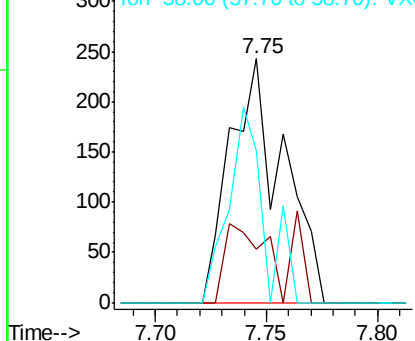


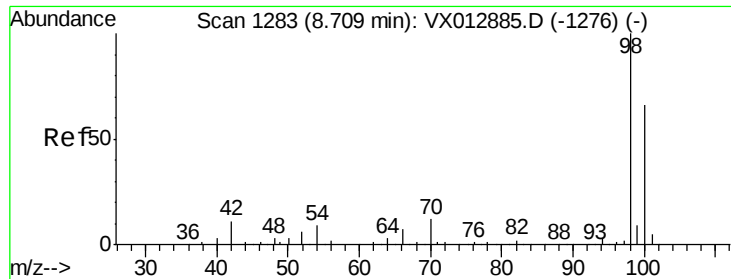
#49
 1,4-Dioxane
 Concen: 41.209 ug/l
 RT: 7.75 min Scan# 1125
 Delta R.T. 0.01 min
 Lab File: VX012920.D
 Acq: 09 Oct 2019 04:18

Tgt Ion: 88 Resp: 399
 Ion Ratio Lower Upper
 88 100
 43 24.6 25.0 37.6#
 58 54.1 55.4 83.2#



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

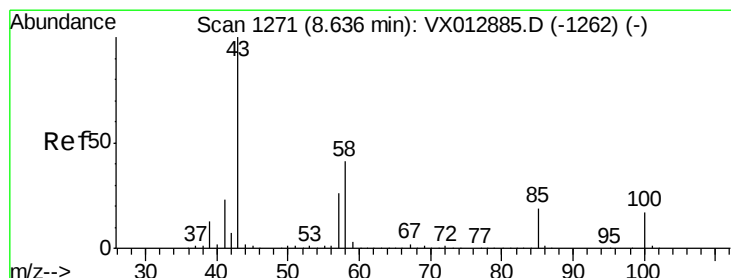
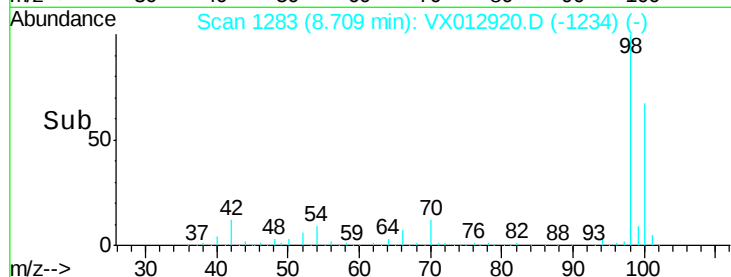
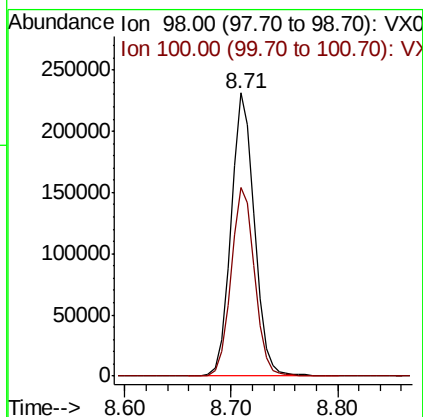
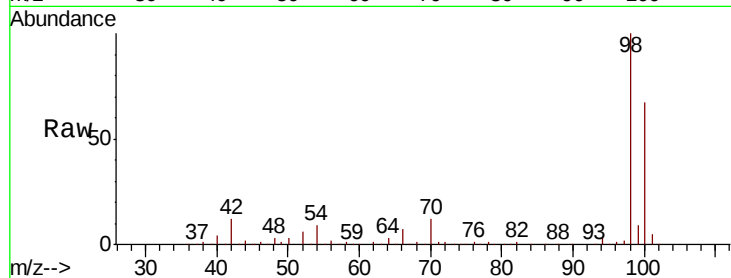




#50
Toluene-d8
Concen: 52.264 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012920.D
Acq: 09 Oct 2019 04:18

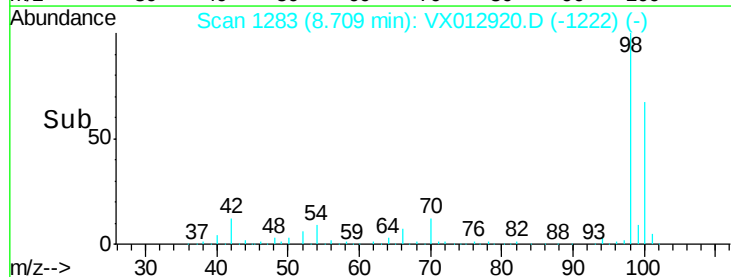
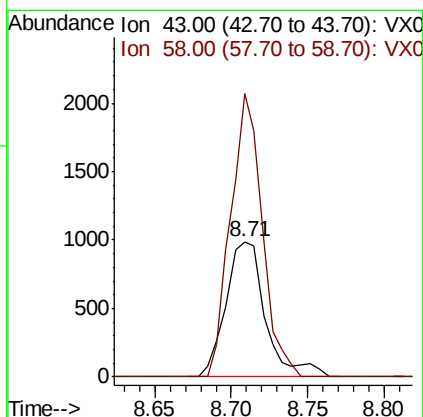
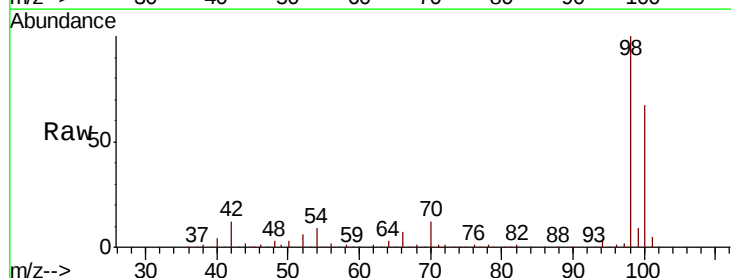
Instrument :
MSVOA_X
ClientSampled :

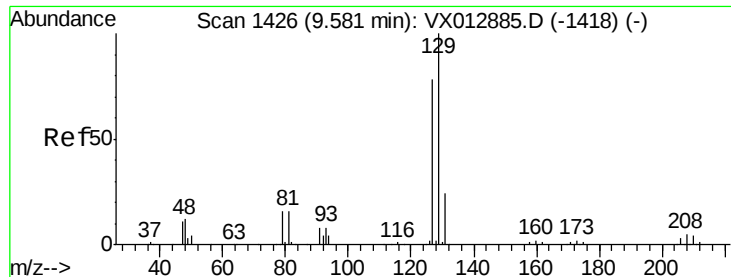
Tot Ion: 98 Resp: 356399
Ion Ratio Lower Upper
98 100
100 67.1 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.591 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX012920.D
Acq: 09 Oct 2019 04:18

Tgt Ion: 43 Resp: 1771
Ion Ratio Lower Upper
43 100
58 167.2 32.4 48.6#





#60

Dibromochloromethane

Concen: 11.022 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX012920.D

Acq: 09 Oct 2019 04:18

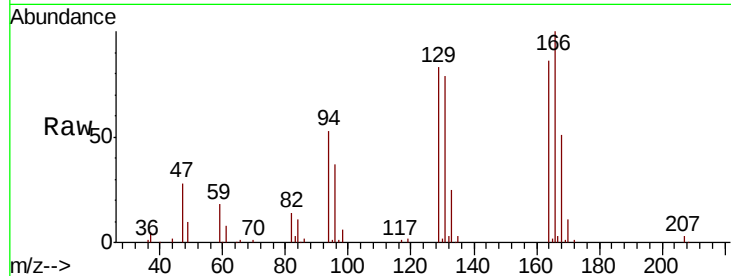
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 21213

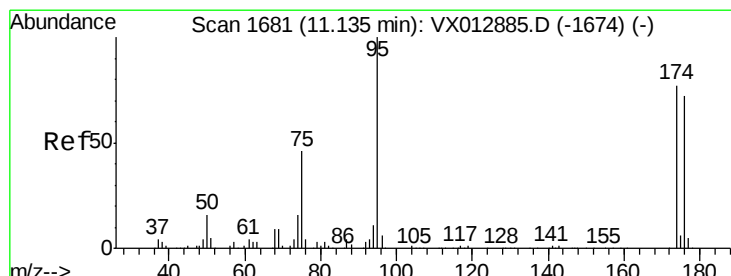
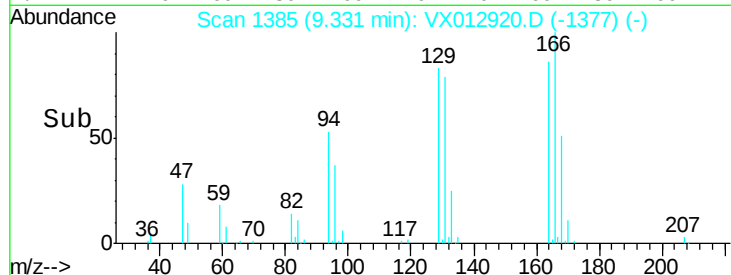
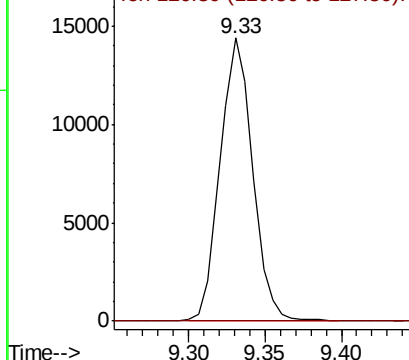
Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 46.114 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012920.D

Acq: 09 Oct 2019 04:18

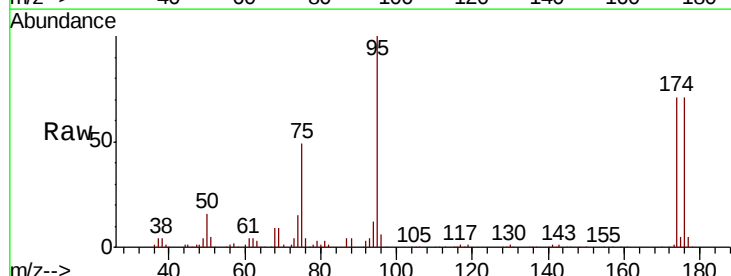
Tgt Ion: 95 Resp: 122185

Ion Ratio Lower Upper

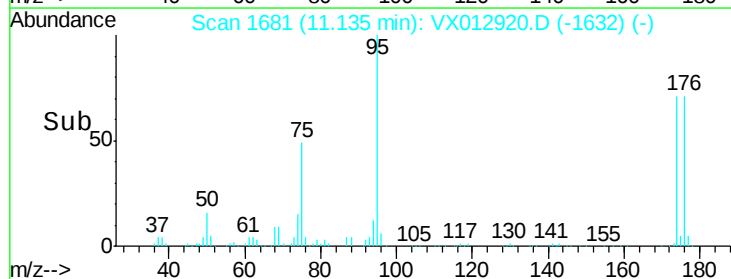
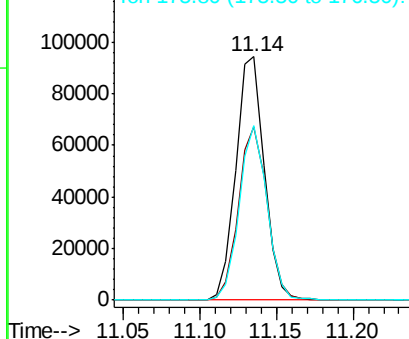
95 100

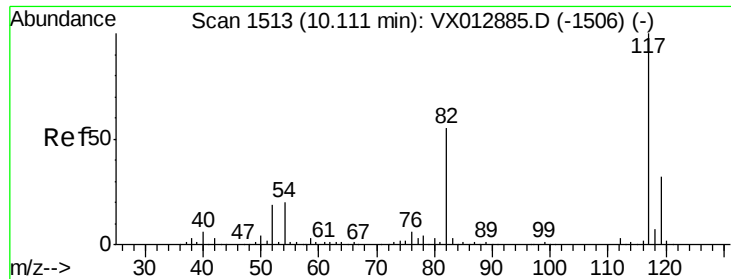
174 71.6 0.0 143.4

176 69.7 0.0 136.0



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

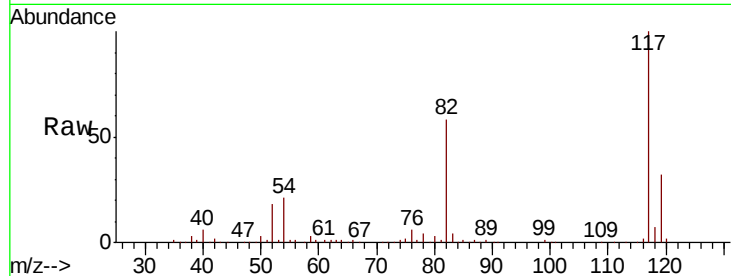




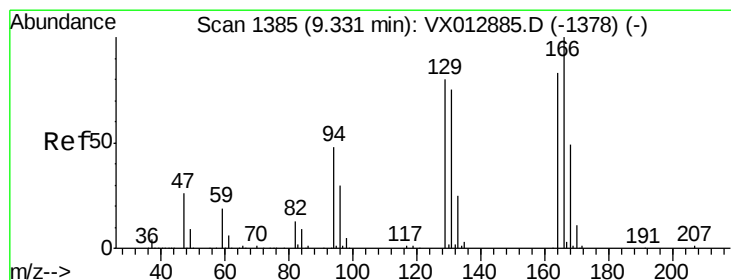
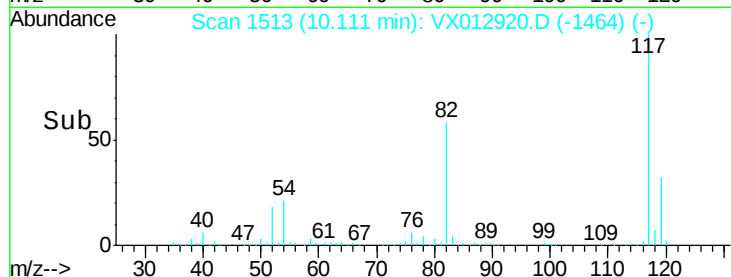
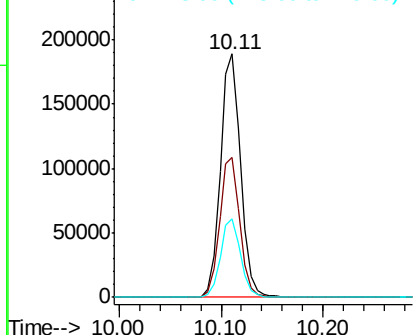
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012920.D
Acq: 09 Oct 2019 04:18

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 260699
Ion Ratio Lower Upper
117 100
82 57.5 44.1 66.1
119 32.5 25.8 38.8



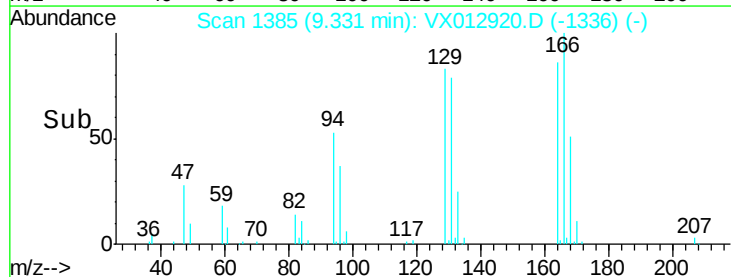
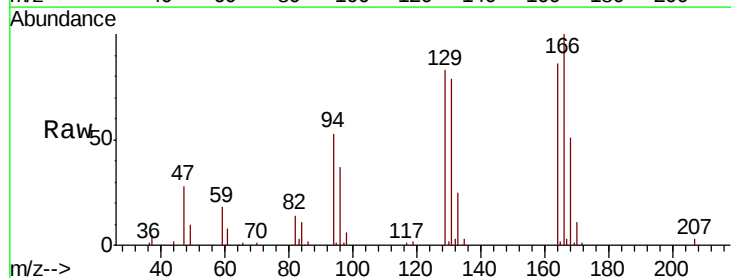
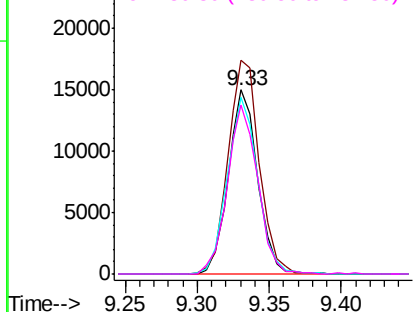
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

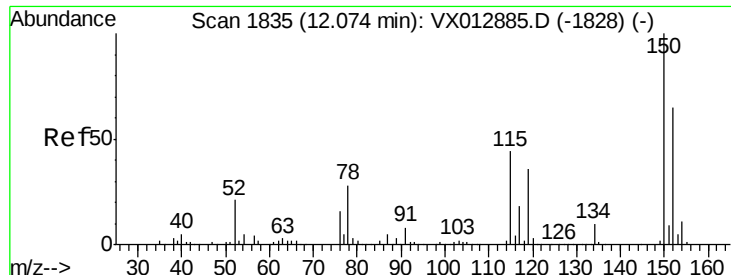


#64
Tetrachloroethene
Concen: 11.805 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX012920.D
Acq: 09 Oct 2019 04:18

Tgt Ion:164 Resp: 21345
Ion Ratio Lower Upper
164 100
166 116.1 96.9 145.3
129 96.2 77.9 116.9
131 91.8 72.7 109.1

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: VX012920.D

Acq: 09 Oct 2019 04:18

Instrument :

MSVOA_X

ClientSampleId :

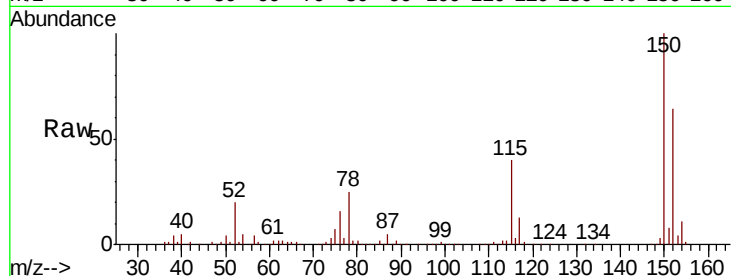
Tot Ion:152 Resp: 103779

Ion Ratio Lower Upper

152 100

115 63.8 44.5 133.5

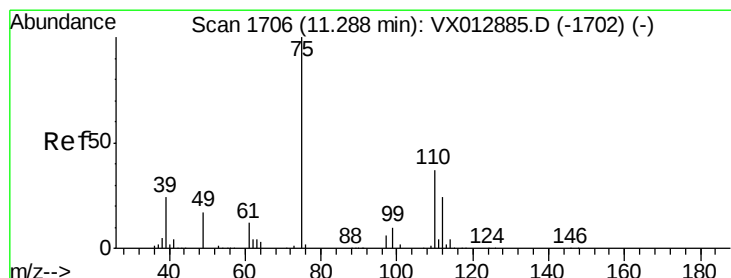
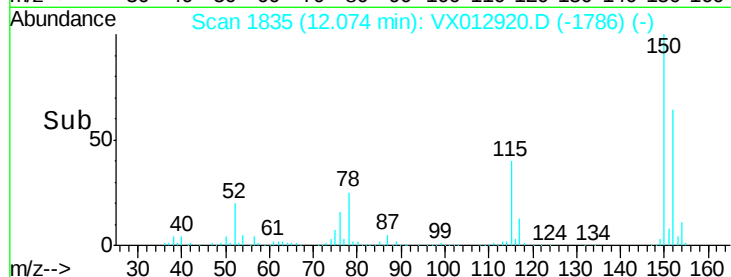
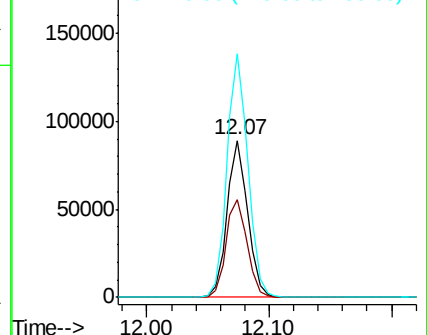
150 157.6 0.0 353.4



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: 27.154 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012920.D

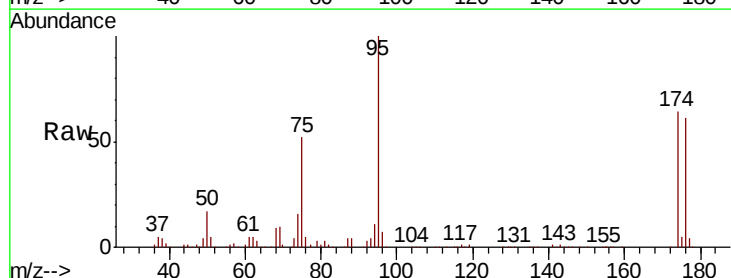
Acq: 09 Oct 2019 04:18

Tgt Ion: 75 Resp: 62503

Ion Ratio Lower Upper

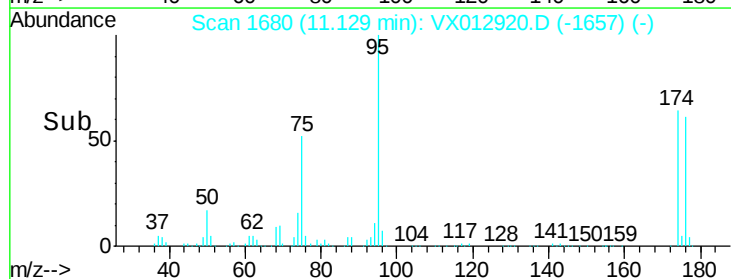
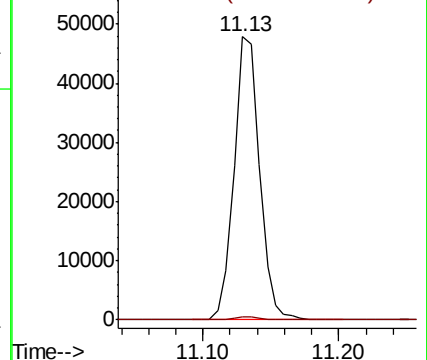
75 100

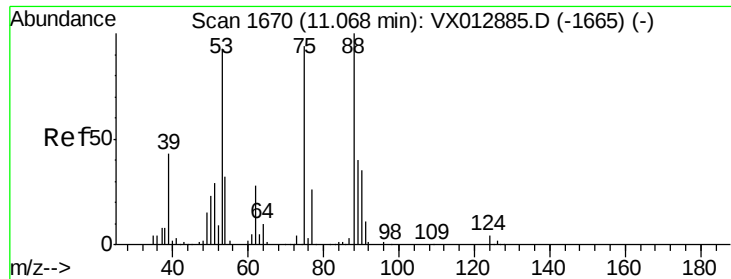
77 1.2 22.9 68.8#



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: 68.206 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012920.D

Acq: 09 Oct 2019 04:18

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 62503

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#

