

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031419\
 Data File : VX008088.D
 Acq On : 14 Mar 2019 23:46
 Operator : JC/SP
 Sample : K1839-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D1-20190307

Quant Time: Mar 15 04:30:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	315275	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	476220	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	457120	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	223188	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	155529	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
35) Dibromofluoromethane	5.51	113	150111	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
50) Toluene-d8	8.71	98	577411	50.27	ug/l	0.00
Spiked Amount			Recovery	=	100.54%	
62) 4-Bromofluorobenzene	11.13	95	213883	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	

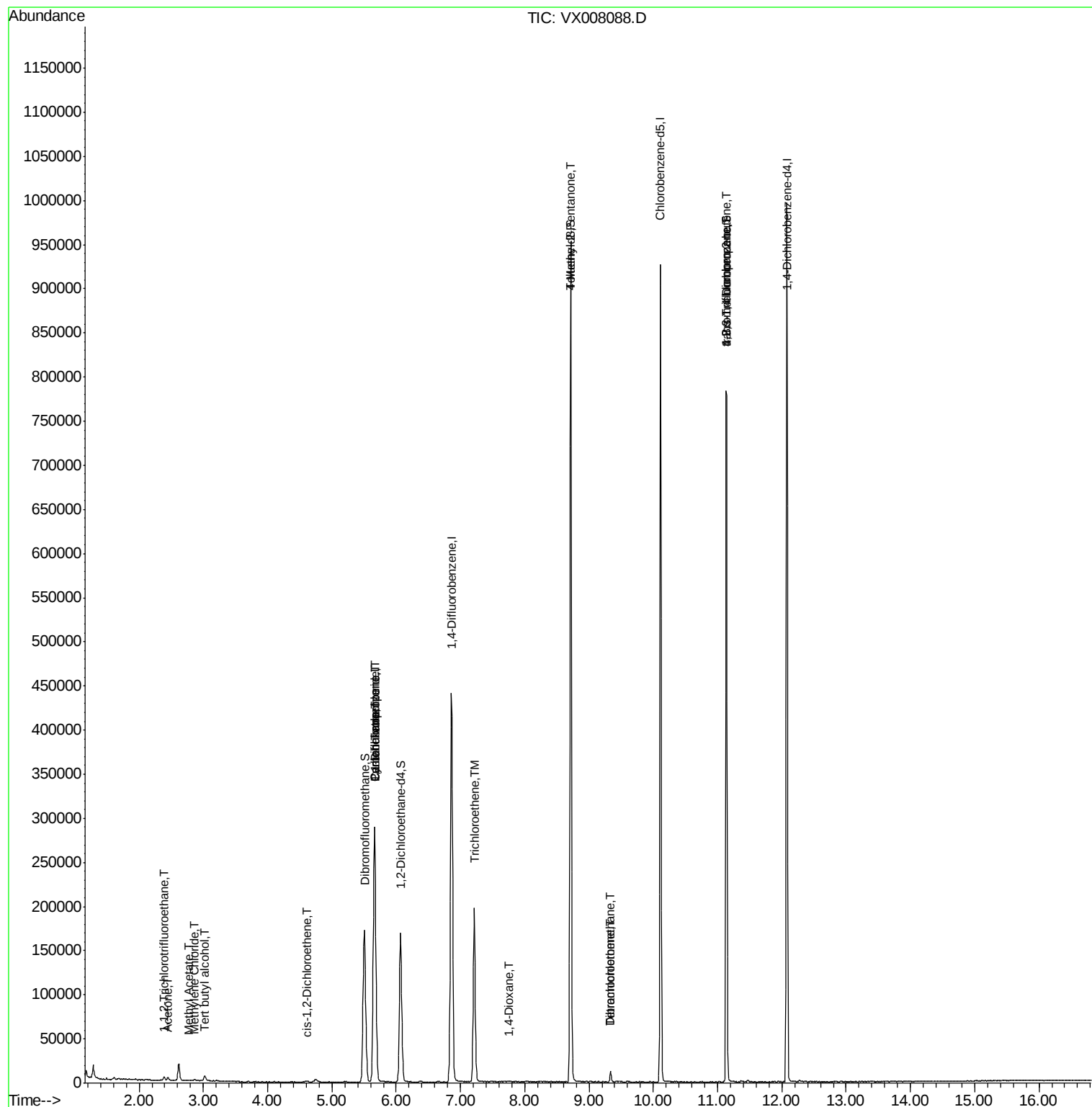
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	207	Below Cal	#	72
6) Chloroethane	1.77	64	501	Below Cal	#	52
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1414	0.556	ug/l	93
11) Tert butyl alcohol	3.03	59	3538	5.758	ug/l #	73
16) Acetone	2.45	43	3729	2.484	ug/l #	87
18) Methyl Acetate	2.78	43	736	0.227	ug/l #	91
20) Methylene Chloride	2.86	84	664	0.248	ug/l #	81
27) cis-1,2-Dichloroethene	4.60	96	634	0.206	ug/l	97
31) Cyclohexane	5.66	56	4220	0.928	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18342	4.682	ug/l #	49
38) Carbon Tetrachloride	5.66	117	25807	6.844	ug/l #	16
44) Trichloroethene	7.21	130	82517	23.823	ug/l	96
49) 1,4-Dioxane	7.76	88	768	10.054	ug/l	94
51) 4-Methyl-2-Pentanone	8.71	43	2208	0.494	ug/l #	1
60) Dibromochloromethane	9.34	129	2365	0.739	ug/l #	11
64) Tetrachloroethene	9.34	164	2438	0.658	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	95373	24.605	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	95373	70.018	ug/l #	11

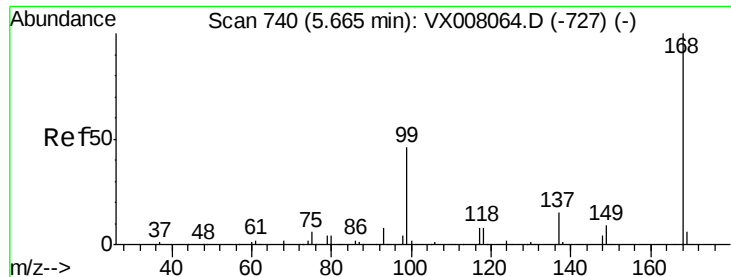
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 15 03:56:35 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008088.D

Acq: 14 Mar 2019 23:46

Instrument :

MSVOA_X

ClientSampleId :

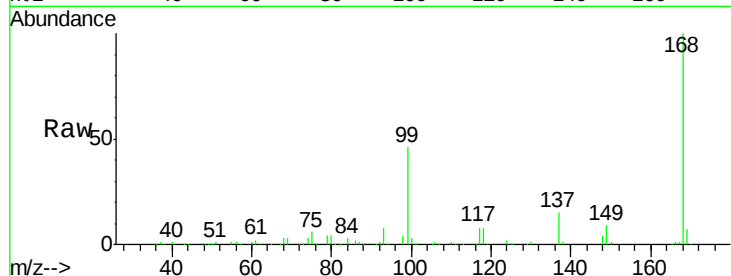
RE109D1-20190307

Tot Ion:168 Resp: 315275

Ion Ratio Lower Upper

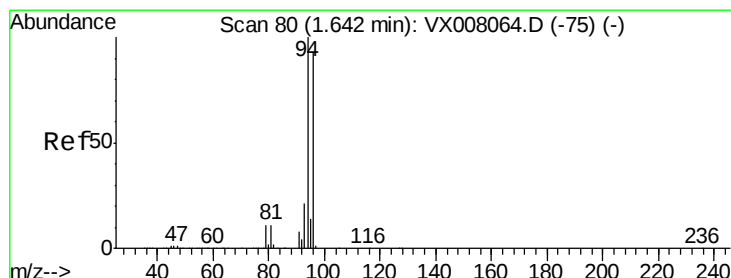
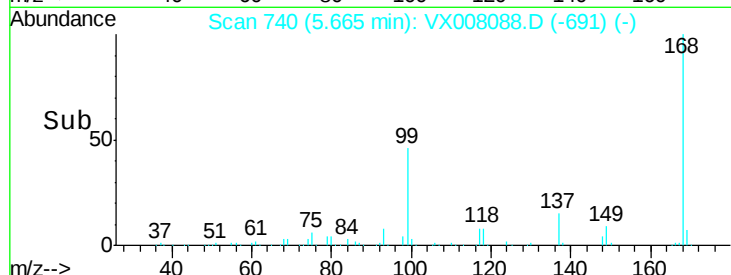
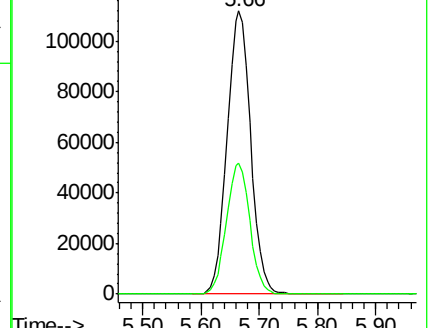
168 100

99 46.5 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008088.D

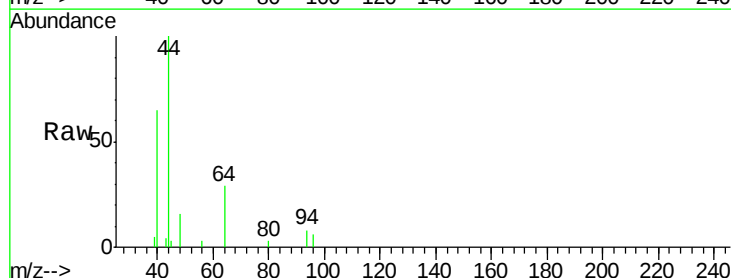
Acq: 14 Mar 2019 23:46

Tgt Ion: 94 Resp: 207

Ion Ratio Lower Upper

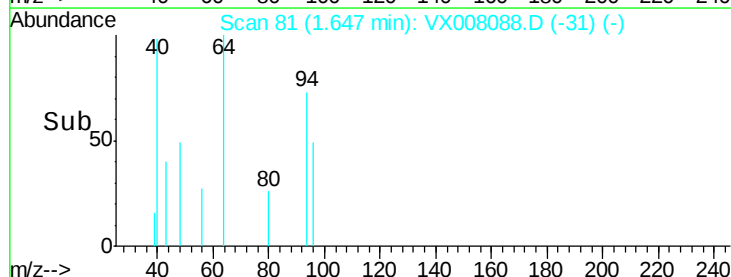
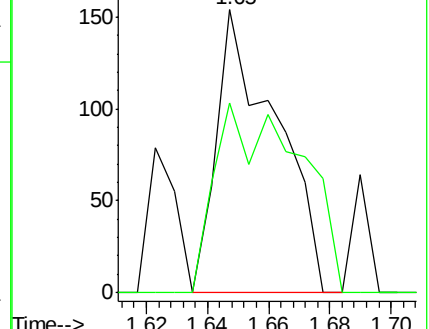
94 100

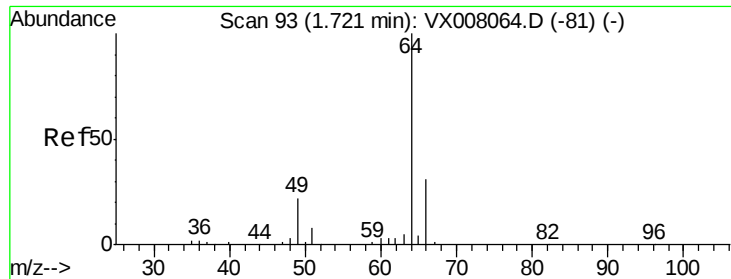
96 66.9 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.77 min Scan# 101

Delta R.T. 0.05 min

Lab File: VX008088.D

Acq: 14 Mar 2019 23:46

Instrument :

MSVOA_X

ClientSampleId :

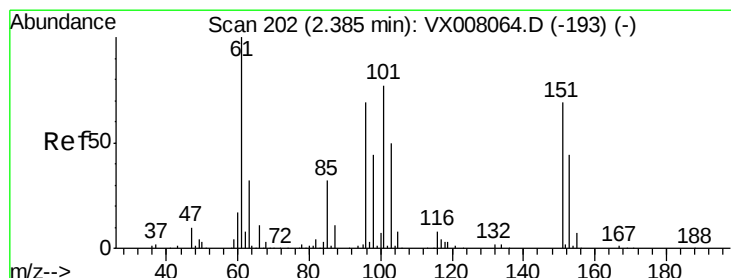
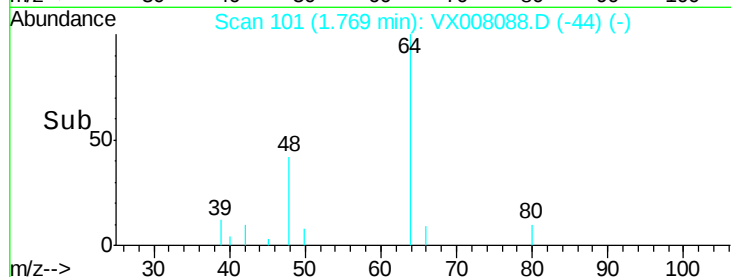
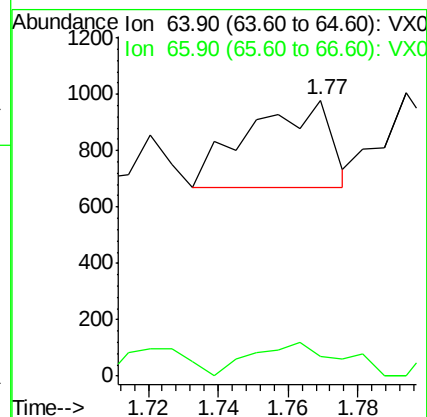
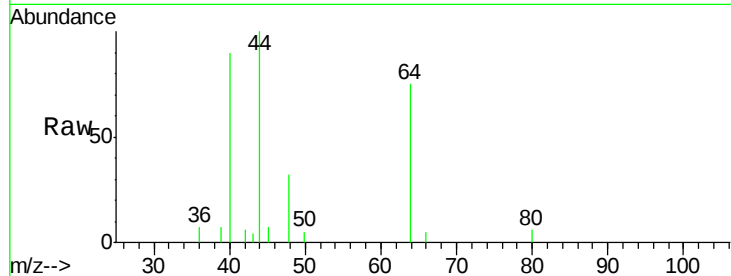
RE109D1-20190307

Tot Ion: 64 Resp: 501

Ion Ratio Lower Upper

64 100

66 4.9 25.2 37.8#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.556 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX008088.D

Acq: 14 Mar 2019 23:46

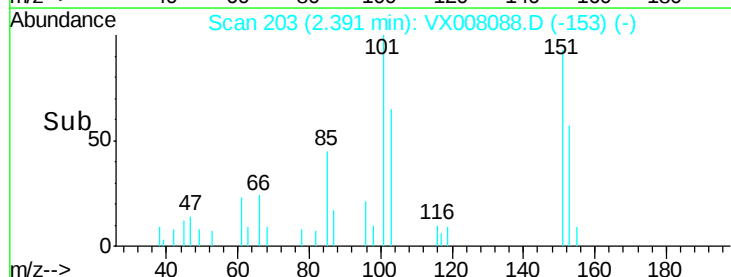
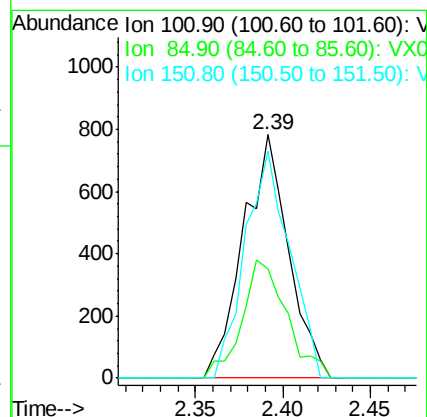
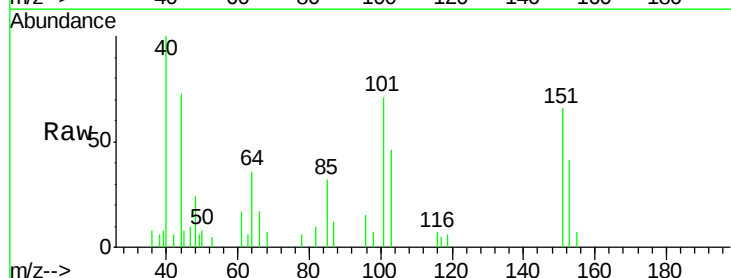
Tgt Ion:101 Resp: 1414

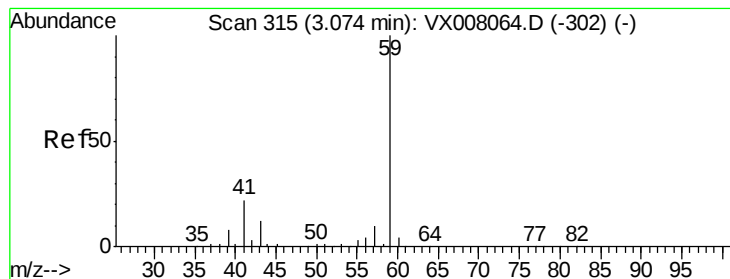
Ion Ratio Lower Upper

101 100

85 47.9 33.8 50.6

151 91.4 69.1 103.7



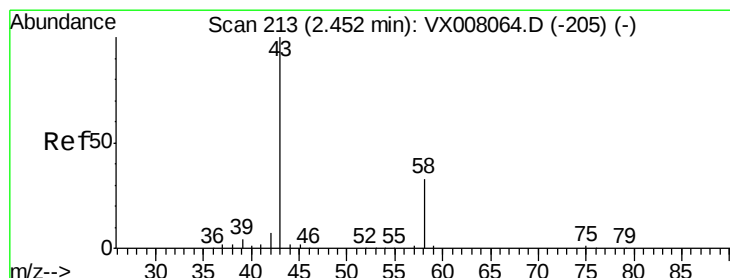
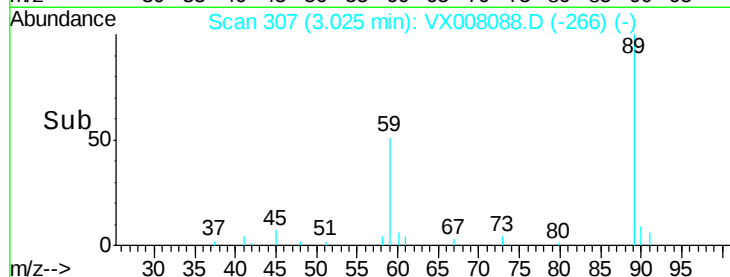
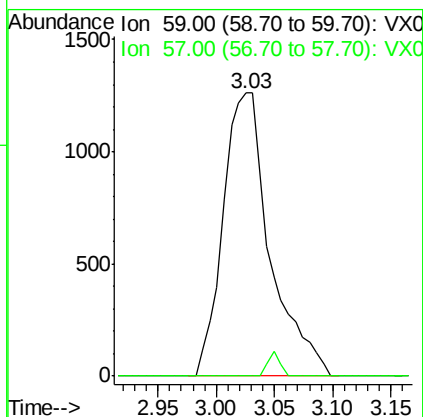
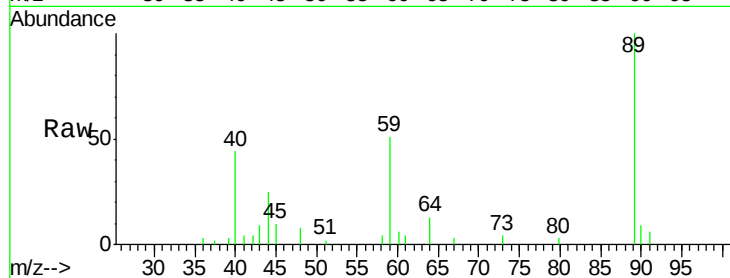


#11

Tert butyl alcohol
 Concen: 5.758 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX008088.D
 Acq: 14 Mar 2019 23:46

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D1-20190307

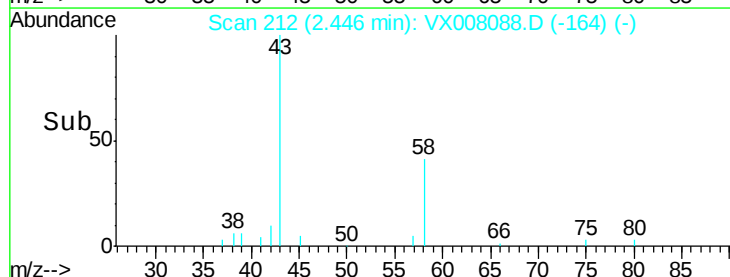
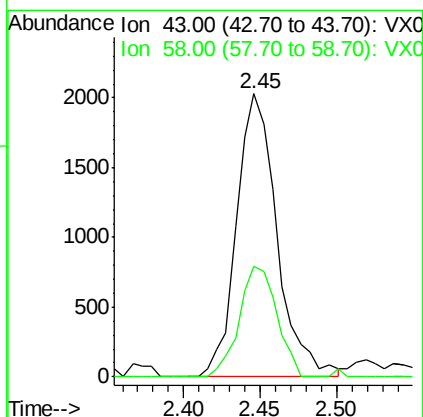
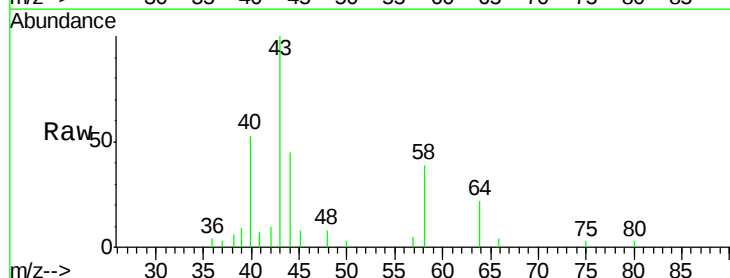
Tot Ion: 59 Resp: 3538
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

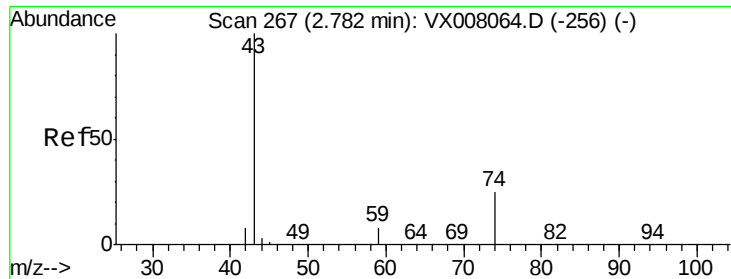


#16

Acetone
 Concen: 2.484 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. -0.01 min
 Lab File: VX008088.D
 Acq: 14 Mar 2019 23:46

Tgt Ion: 43 Resp: 3729
 Ion Ratio Lower Upper
 43 100
 58 38.9 25.5 38.3#

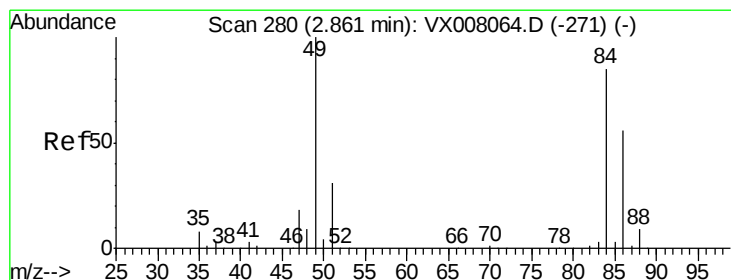
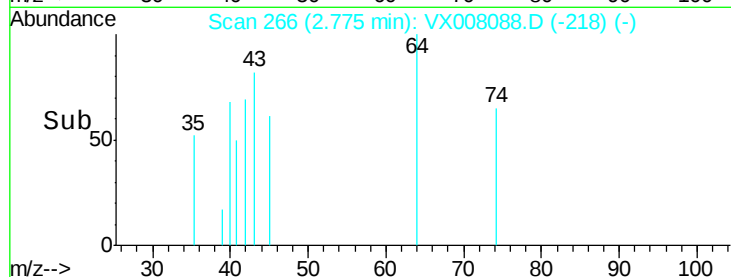
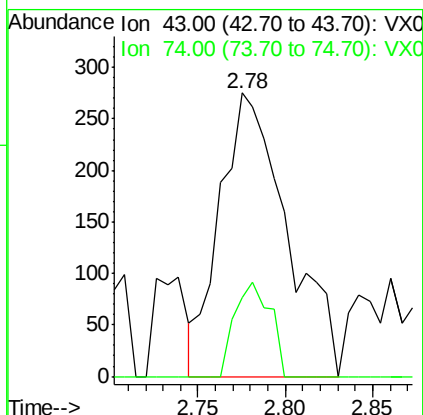
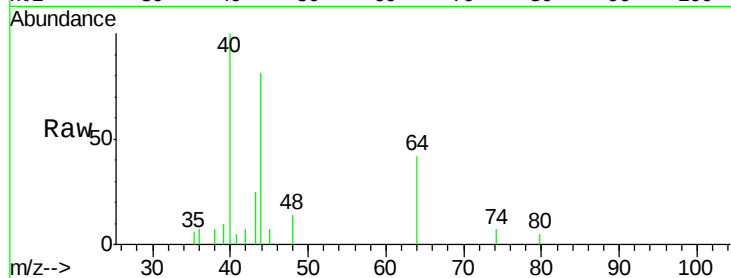




#18
Methyl Acetate
Concen: 0.227 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX008088.D
Acq: 14 Mar 2019 23:46

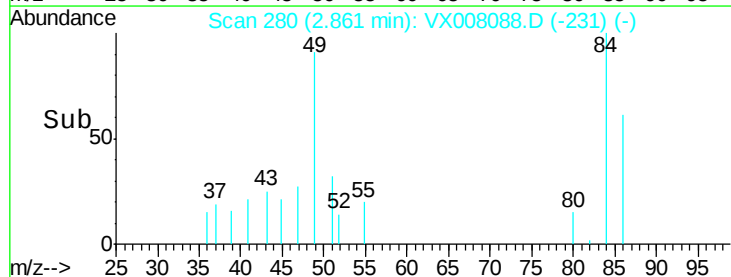
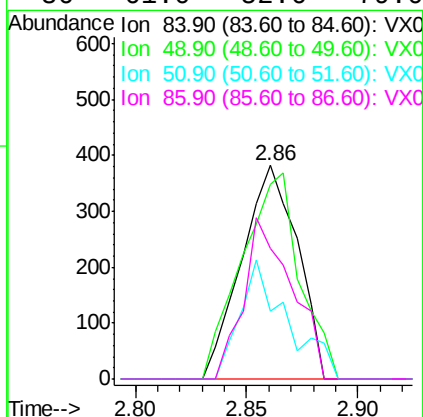
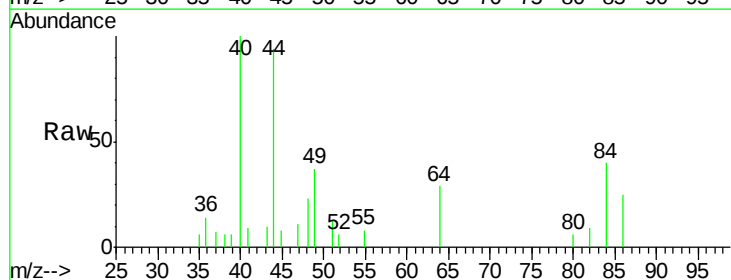
Instrument :
MSVOA_X
ClientSampleId :
RE109D1-20190307

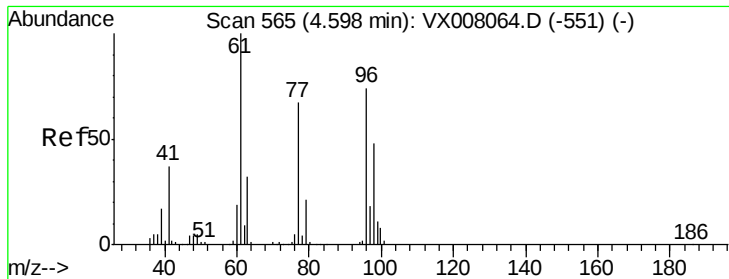
Tot Ion: 43 Resp: 736
Ion Ratio Lower Upper
43 100
74 17.7 17.8 26.6#



#20
Methylene Chloride
Concen: 0.248 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX008088.D
Acq: 14 Mar 2019 23:46

Tgt Ion: 84 Resp: 664
Ion Ratio Lower Upper
84 100
49 91.4 99.3 148.9#
51 31.7 31.3 46.9
86 61.0 52.6 79.0



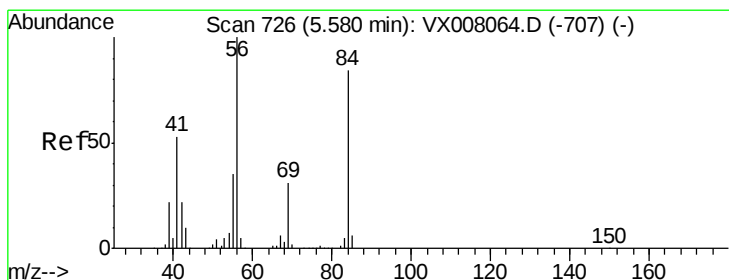
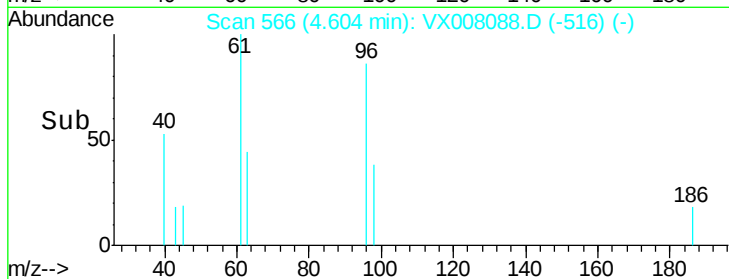
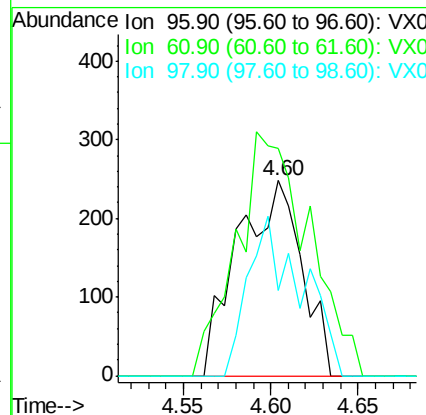
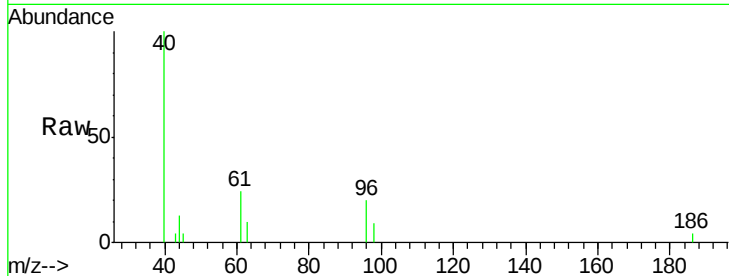


#27

cis-1,2-Dichloroethene
 Concen: 0.206 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX008088.D
 Acq: 14 Mar 2019 23:46

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D1-20190307

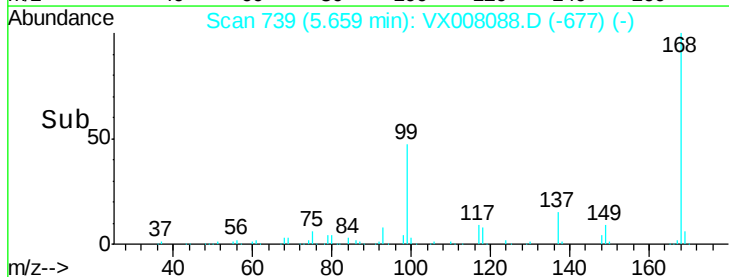
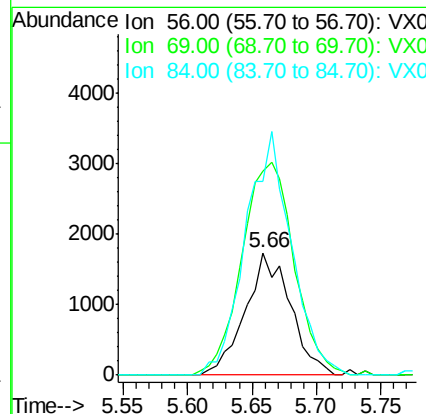
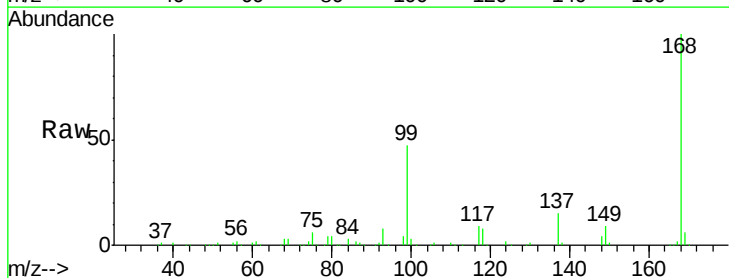
Tot Ion: 96 Resp: 634
 Ion Ratio Lower Upper
 96 100
 61 140.4 0.0 288.0
 98 67.7 0.0 129.0

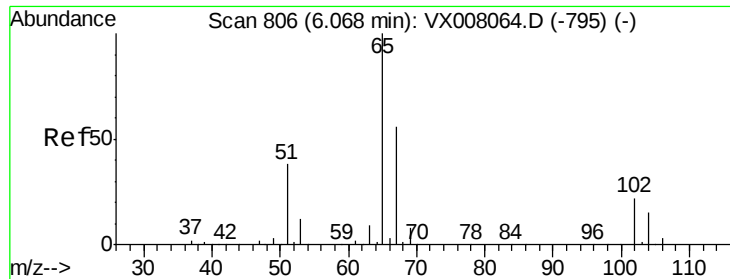


#31

Cyclohexane
 Concen: 0.928 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. 0.08 min
 Lab File: VX008088.D
 Acq: 14 Mar 2019 23:46

Tgt Ion: 56 Resp: 4220
 Ion Ratio Lower Upper
 56 100
 69 166.3 24.0 36.0#
 84 157.7 65.3 97.9#

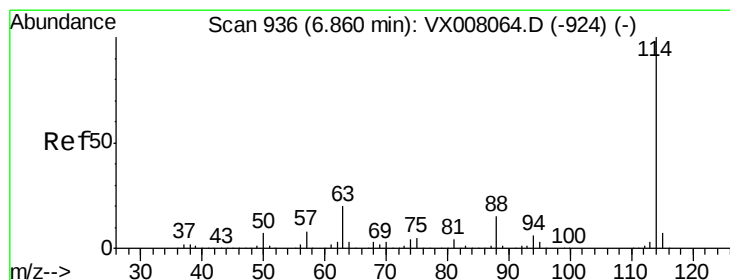
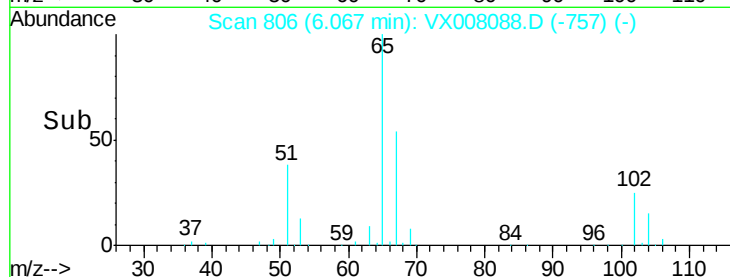
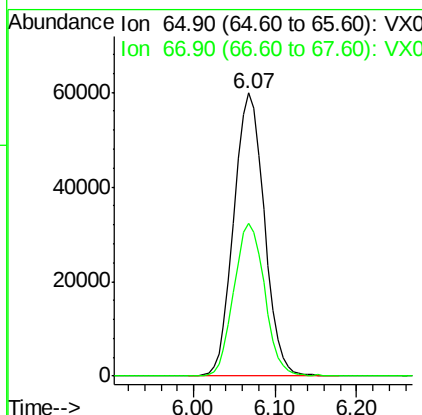
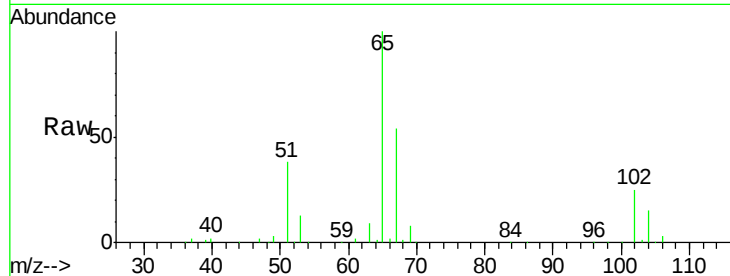




#33
 1,2-Dichloroethane-d4
 Concen: 48.904 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX008088.D
 Acq: 14 Mar 2019 23:46

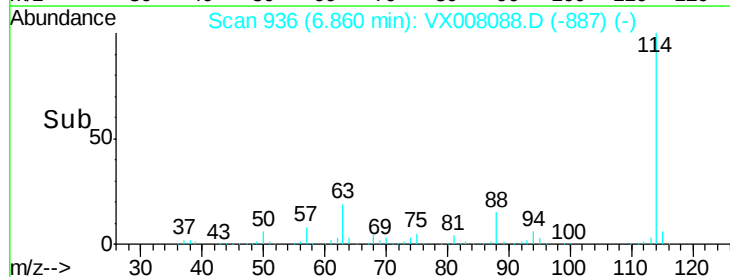
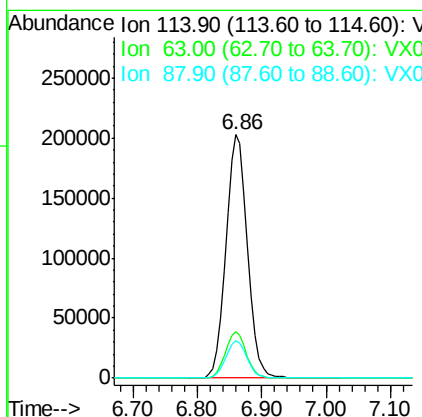
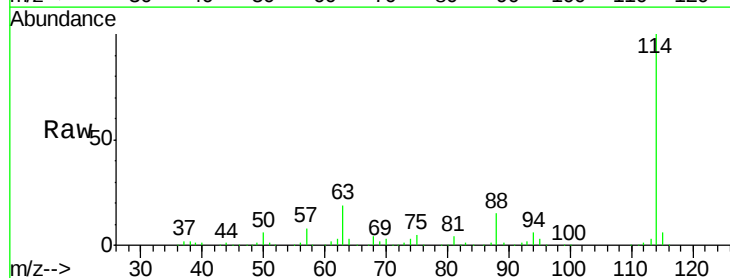
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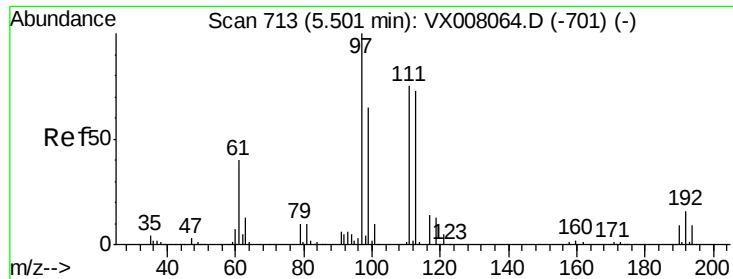
Tot Ion: 65 Resp: 155529
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008088.D
 Acq: 14 Mar 2019 23:46

Tgt Ion: 114 Resp: 476220
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.8
 88 15.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 49.707 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX008088.D

Acq: 14 Mar 2019 23:46

Instrument :

MSVOA_X

ClientSampleId :

RE109D1-20190307

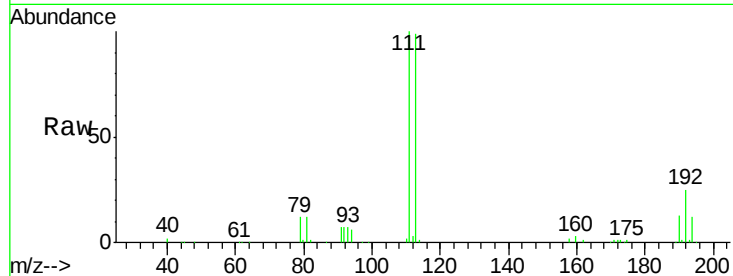
Tot Ion:113 Resp: 150111

Ion Ratio Lower Upper

113 100

111 103.1 81.4 122.0

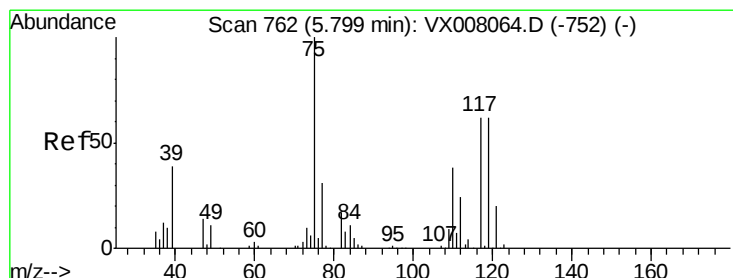
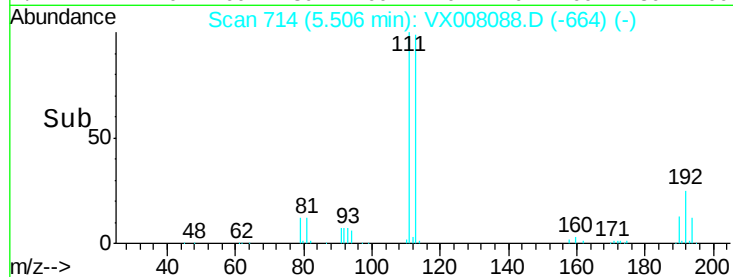
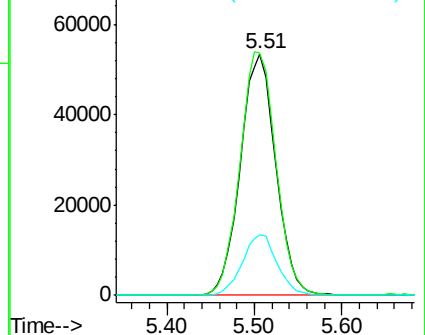
192 25.0 19.4 29.0



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: 4.682 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008088.D

Acq: 14 Mar 2019 23:46

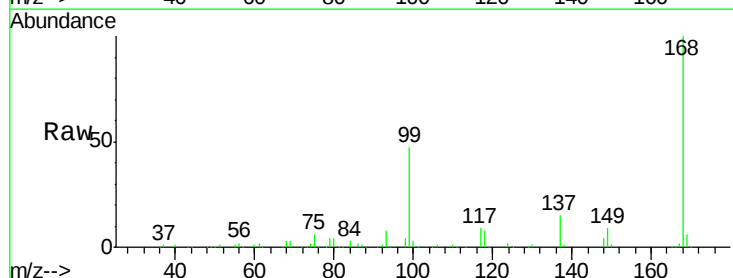
Tgt Ion: 75 Resp: 18342

Ion Ratio Lower Upper

75 100

110 9.2 18.4 55.0#

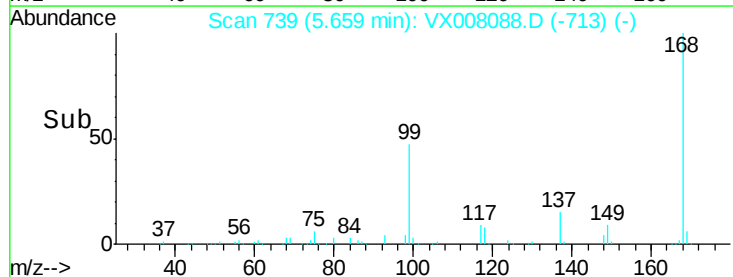
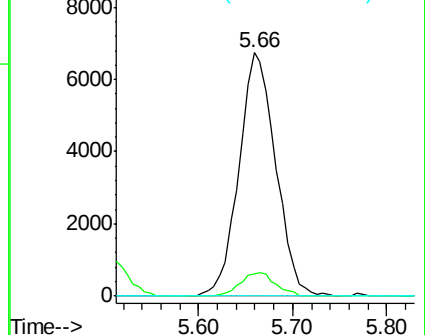
77 0.0 25.0 37.4#

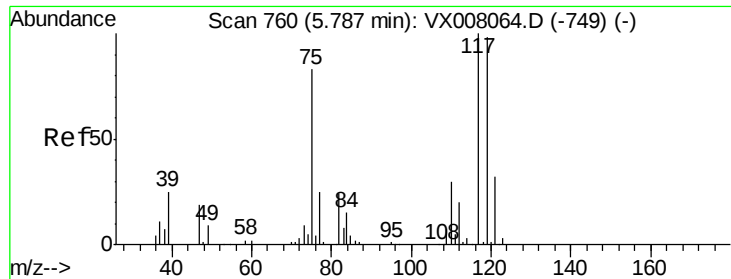


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.844 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008088.D

Acq: 14 Mar 2019 23:46

Instrument :

MSVOA_X

ClientSampleId :

RE109D1-20190307

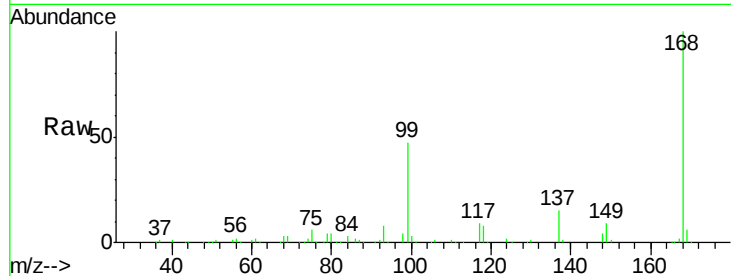
Tot Ion:117 Resp: 25807

Ion Ratio Lower Upper

117 100

119 5.4 76.2 114.2#

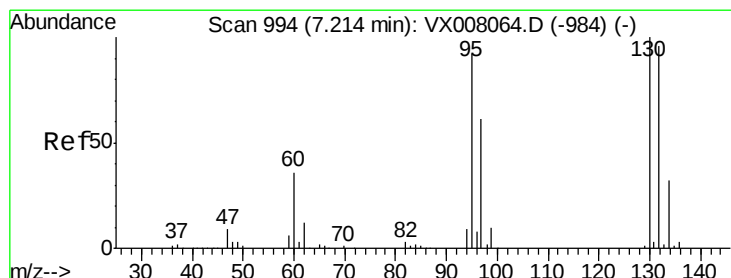
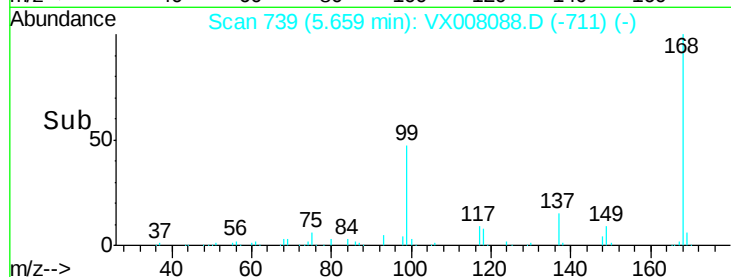
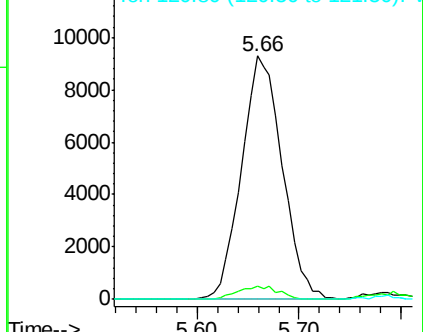
121 0.0 24.6 36.8#



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: 23.823 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008088.D

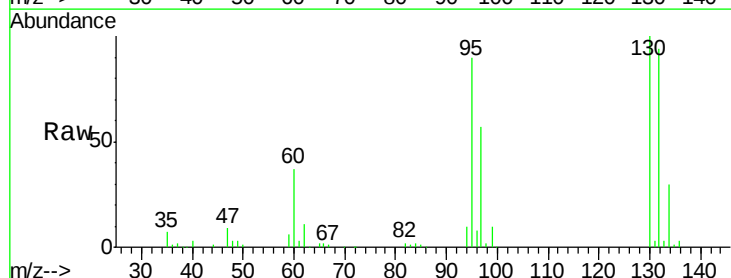
Acq: 14 Mar 2019 23:46

Tgt Ion:130 Resp: 82517

Ion Ratio Lower Upper

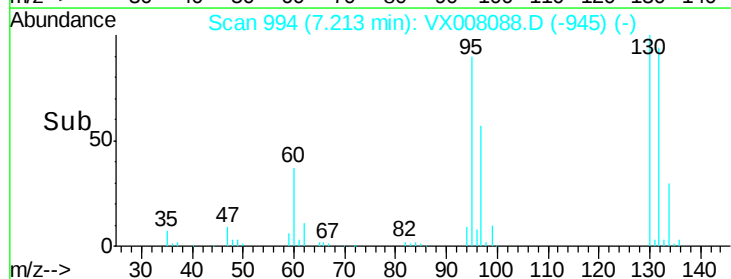
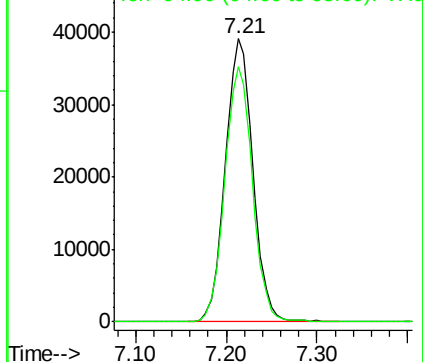
130 100

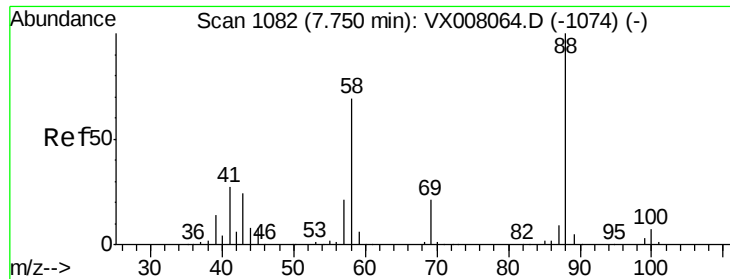
95 90.1 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 10.054 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX008088.D

Acq: 14 Mar 2019 23:46

Instrument :

MSVOA_X

ClientSampleId :

RE109D1-20190307

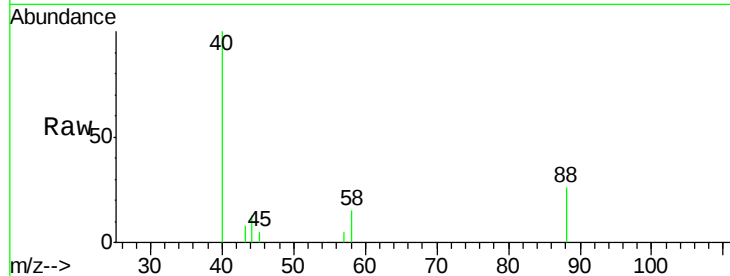
Tot Ion: 88 Resp: 768

Ion Ratio Lower Upper

88 100

43 36.6 25.1 37.7

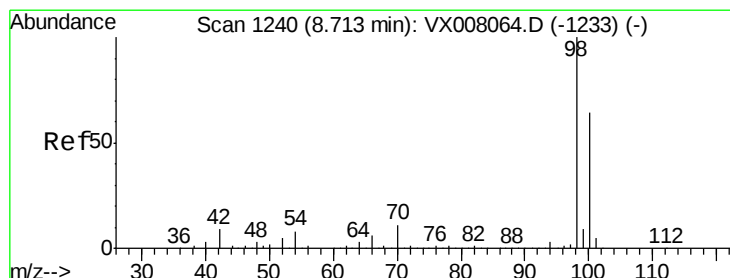
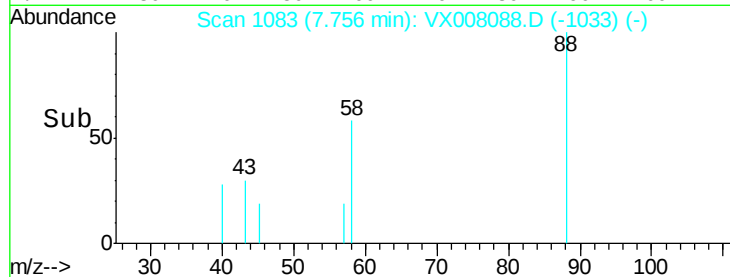
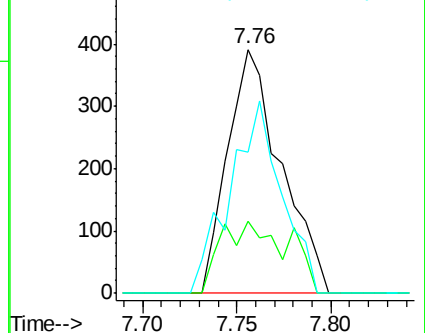
58 76.2 57.8 86.6



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: 50.272 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008088.D

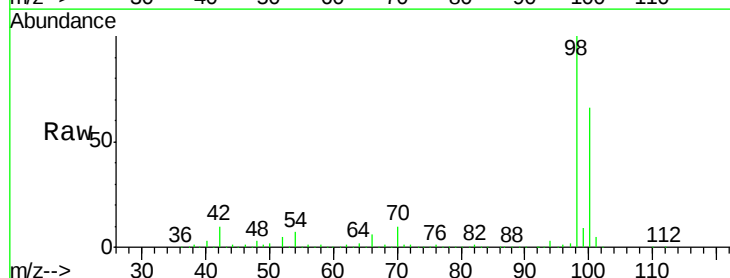
Acq: 14 Mar 2019 23:46

Tgt Ion: 98 Resp: 577411

Ion Ratio Lower Upper

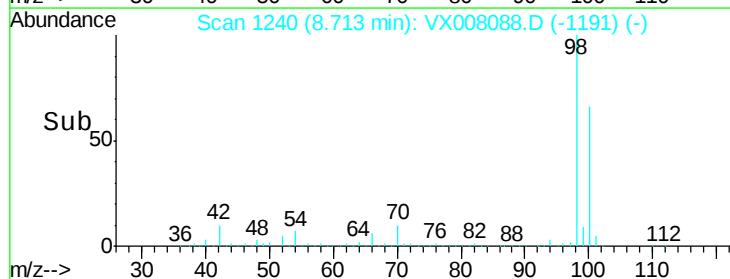
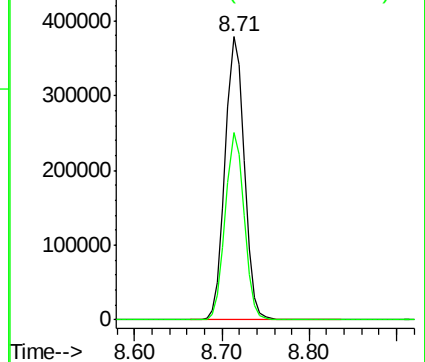
98 100

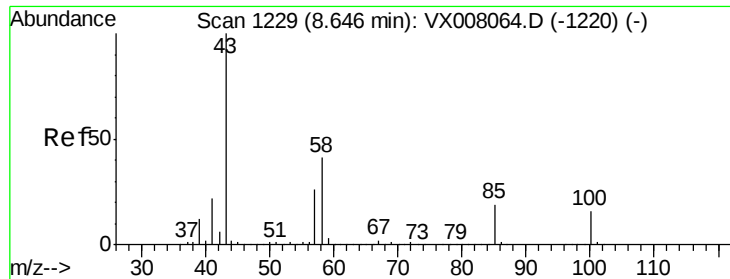
100 65.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

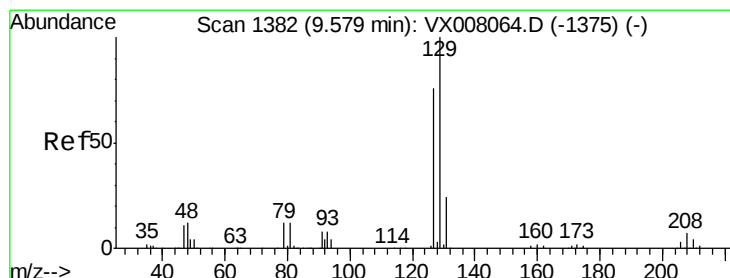
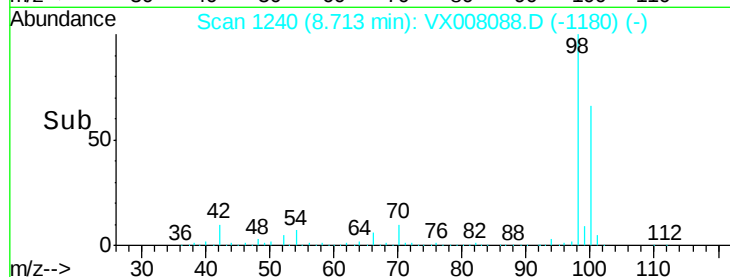
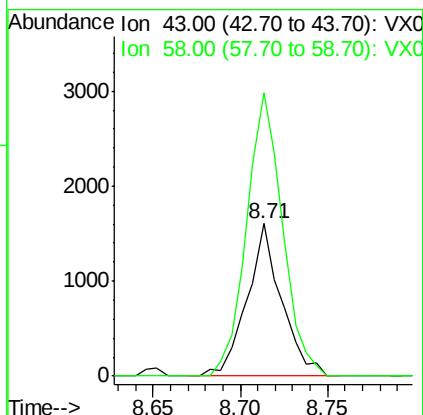
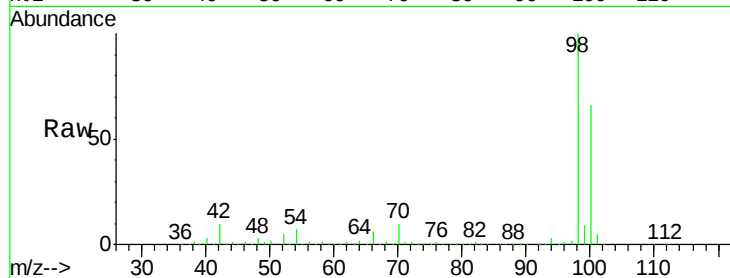




#51
 4-Methyl-2-Pentanone
 Concen: 0.494 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.07 min
 Lab File: VX008088.D
 Acq: 14 Mar 2019 23:46

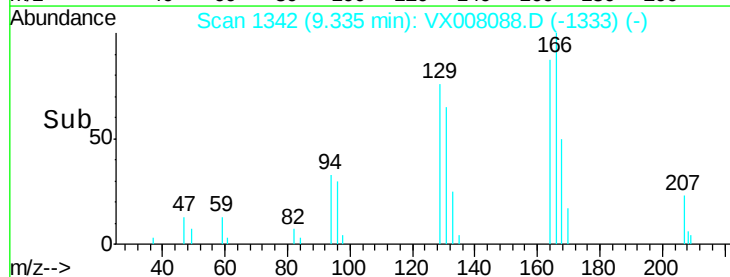
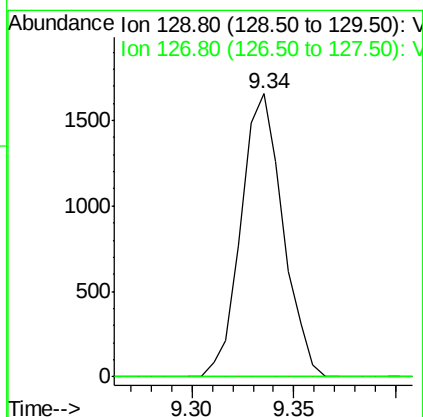
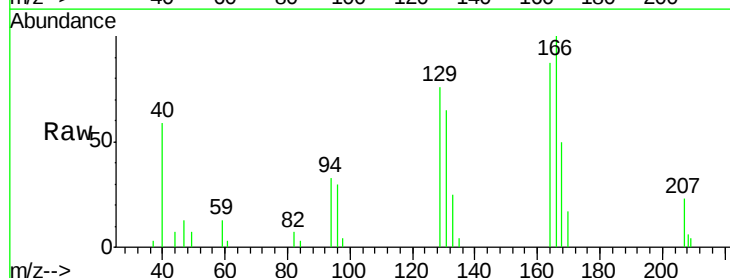
Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D1-20190307

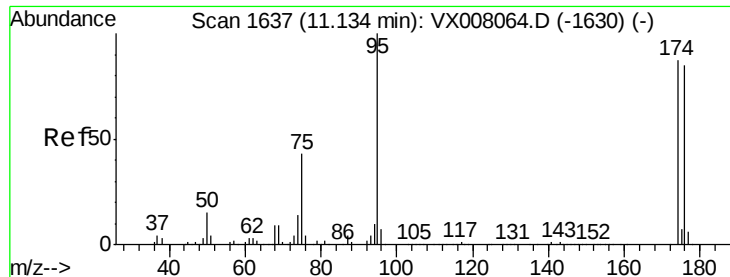
Tot Ion: 43 Resp: 2208
 Ion Ratio Lower Upper
 43 100
 58 192.6 31.3 46.9#



#60
 Dibromochloromethane
 Concen: 0.739 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX008088.D
 Acq: 14 Mar 2019 23:46

Tgt Ion: 129 Resp: 2365
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.3 114.8#





#62

4-Bromofluorobenzene

Concen: 51.982 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008088.D

Acq: 14 Mar 2019 23:46

Instrument :

MSVOA_X

ClientSampleId :

RE109D1-20190307

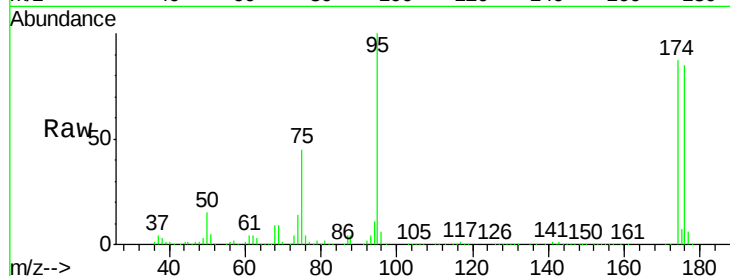
Tot Ion: 95 Resp: 213883

Ion Ratio Lower Upper

95 100

174 95.1 0.0 182.8

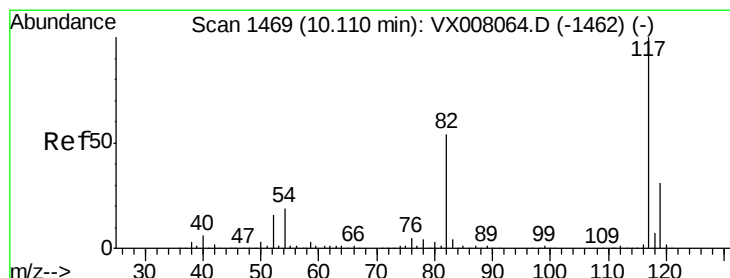
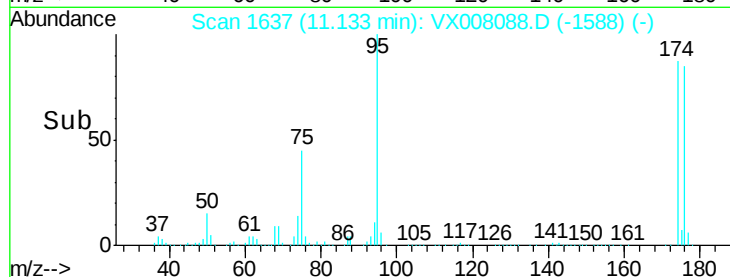
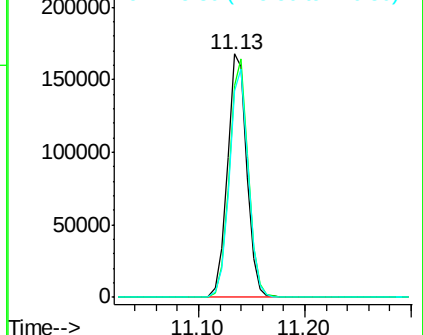
176 92.0 0.0 178.0



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: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008088.D

Acq: 14 Mar 2019 23:46

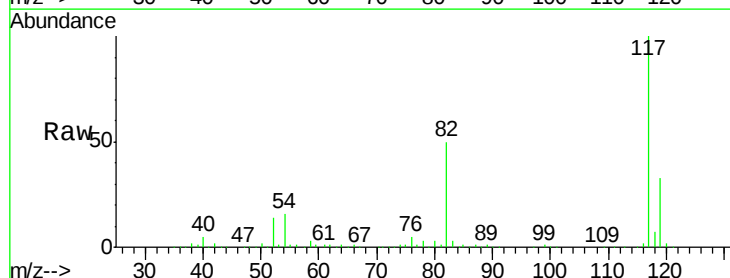
Tgt Ion: 117 Resp: 457120

Ion Ratio Lower Upper

117 100

82 49.5 44.3 66.5

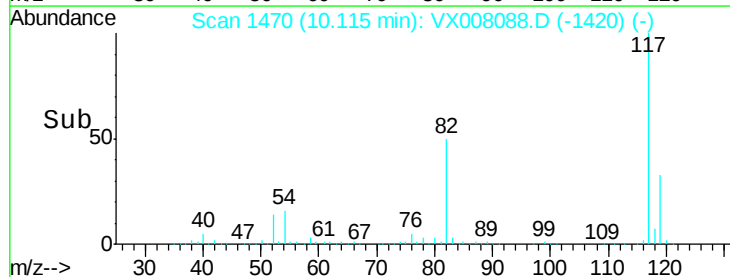
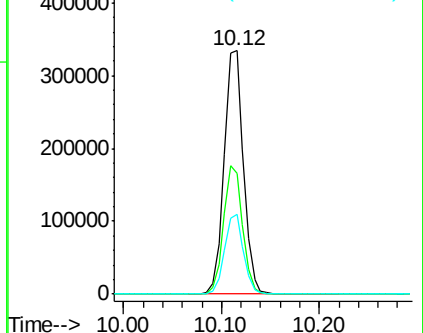
119 32.6 25.3 37.9

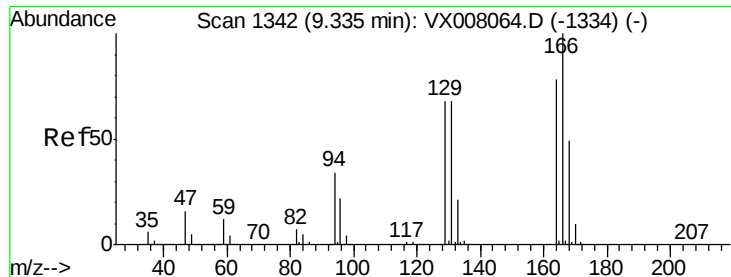


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.658 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX008088.D

Acq: 14 Mar 2019 23:46

Instrument :
MSVOA_X
ClientSampleId :
RE109D1-20190307

Tot Ion:164 Resp: 2438

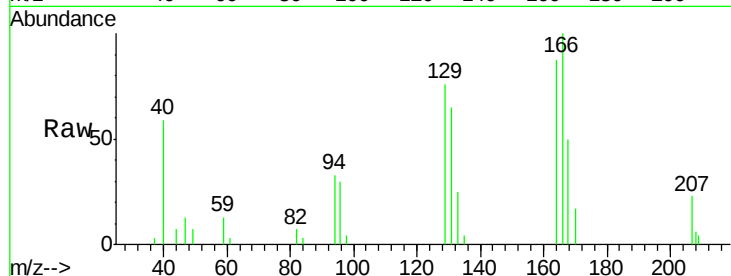
Ion Ratio Lower Upper

164 100

166 115.5 103.4 155.0

129 88.0 72.2 108.4

131 75.0 69.4 104.2

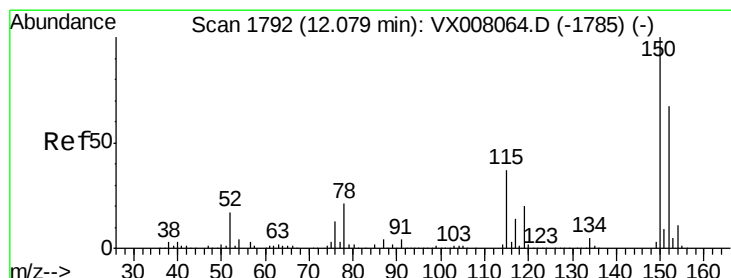
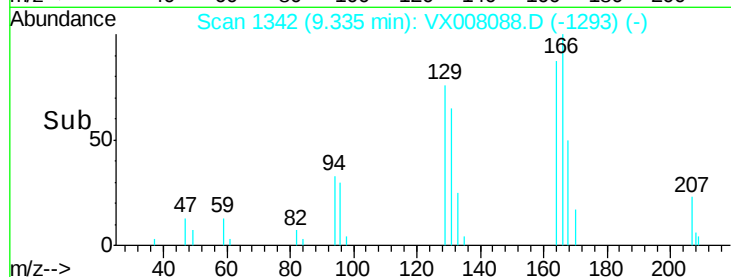
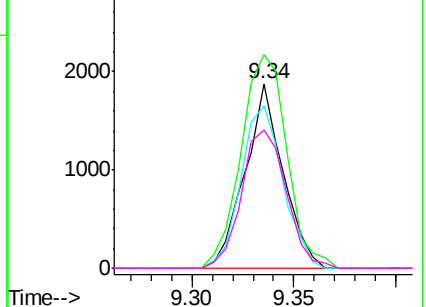


Abundance Ion 163.80 (163.50 to 164.50): V

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: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008088.D

Acq: 14 Mar 2019 23:46

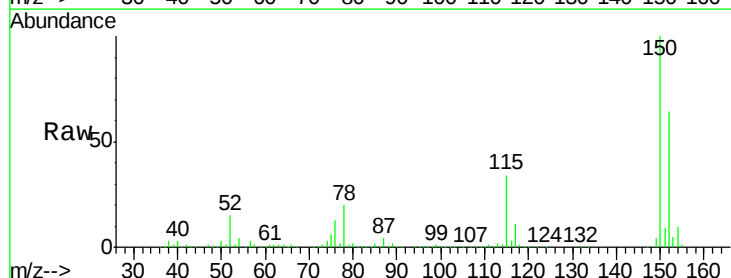
Tgt Ion:152 Resp: 223188

Ion Ratio Lower Upper

152 100

115 54.7 38.6 115.7

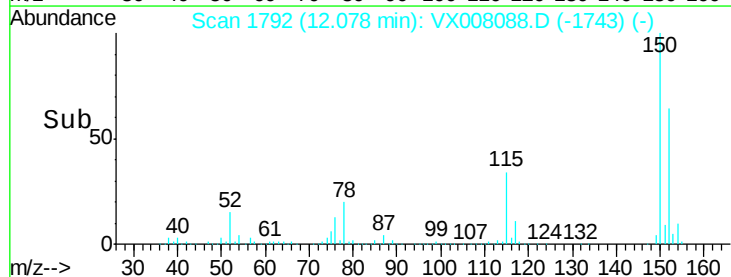
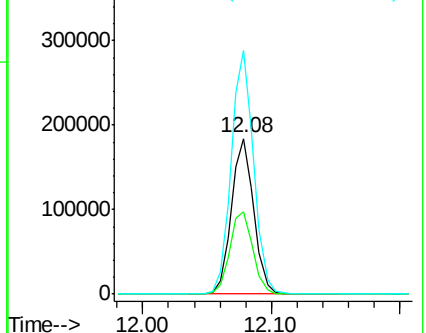
150 157.4 0.0 348.4

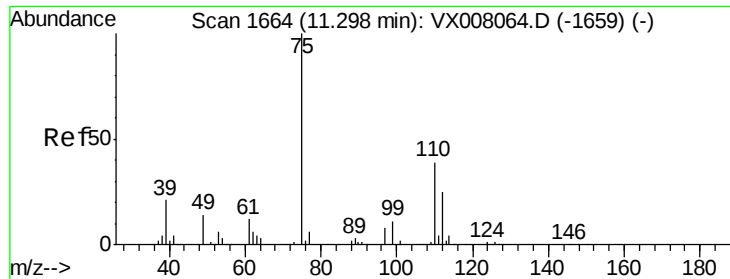


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

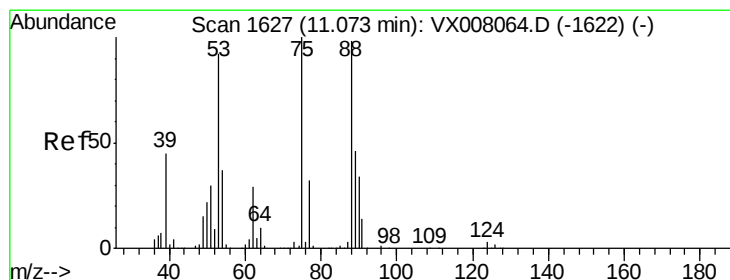
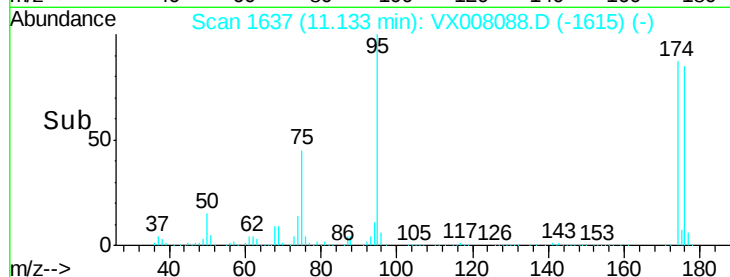
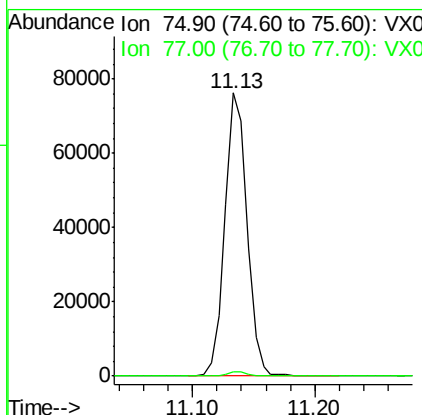
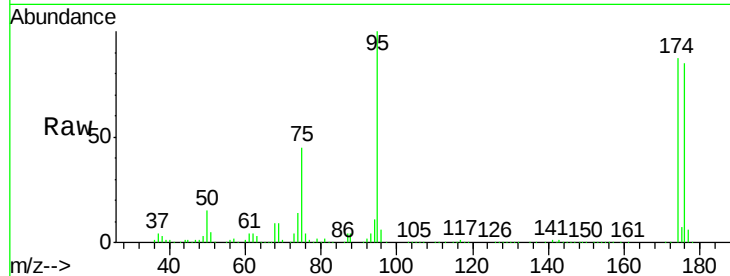




#76
1,2,3-Trichloropropane
Concen: 24.605 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX008088.D
Acq: 14 Mar 2019 23:46

Instrument :
MSVOA_X
ClientSampleId :
RE109D1-20190307

Tot Ion: 75 Resp: 95373
Ion Ratio Lower Upper
75 100
77 1.5 18.9 56.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.018 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX008088.D
Acq: 14 Mar 2019 23:46

Tgt Ion: 75 Resp: 95373
Ion Ratio Lower Upper
75 100
53 0.0 76.1 114.1#
89 0.0 36.3 54.5#

