

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031819\
 Data File : VX008169.D
 Acq On : 18 Mar 2019 16:55
 Operator : JC/SP
 Sample : K1909-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-3-15-19

Quant Time: Mar 19 02:41:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Mar 18 14:34:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	51372	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	278077	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	235864	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	129368	30.27	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.90%
60) 4-Bromofluorobenzene	11.13	95	106890	27.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.50%
63) Toluene-d8	8.71	98	348580	30.42	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.40%

Target Compounds

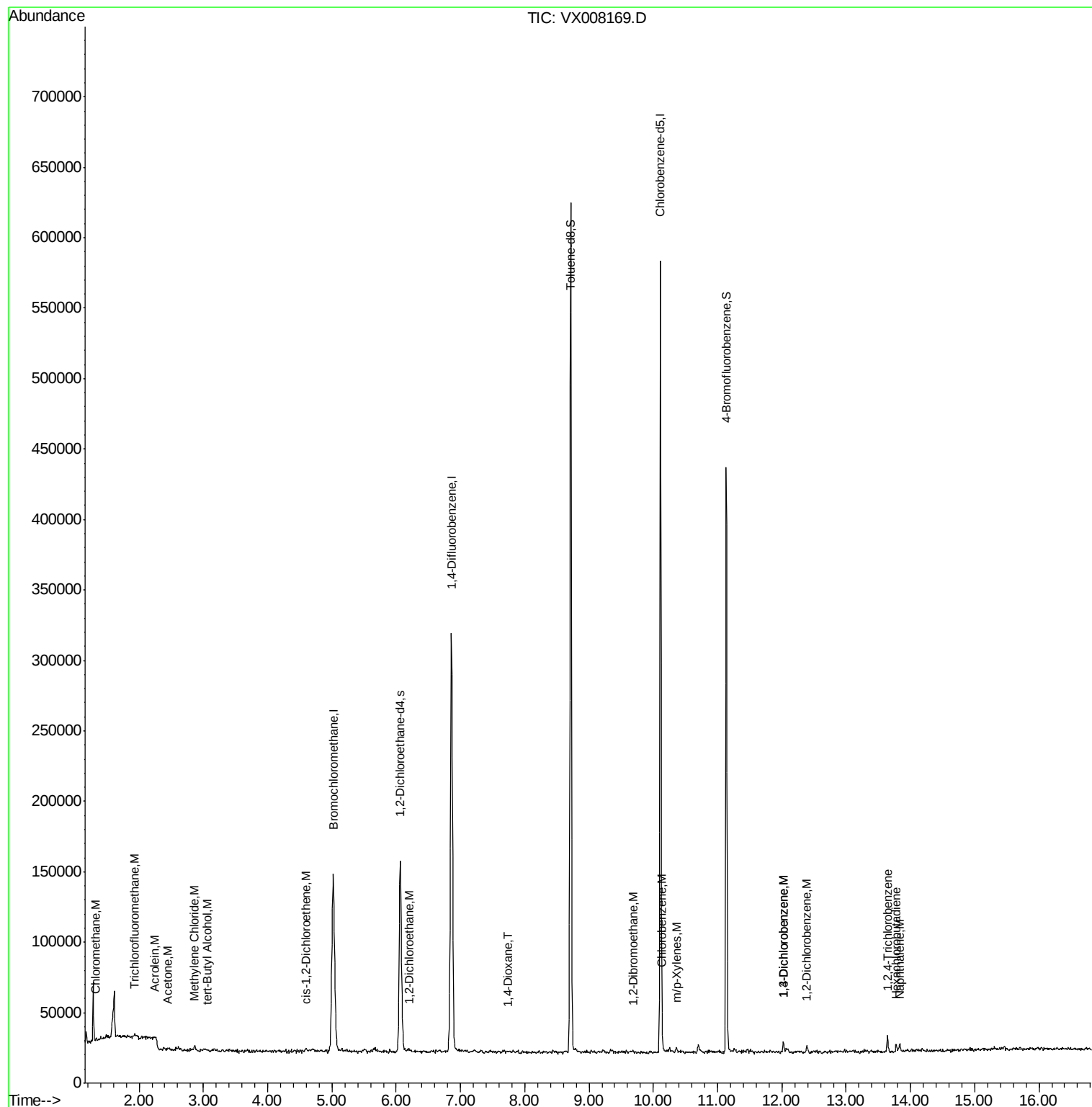
					Ovalue
3) Chloromethane	1.33	50	1014	0.349 ug/l	92
7) Trichlorofluoromethane	1.93	101	1130	0.300 ug/l	91
13) Acrolein	2.25	56	264	0.435 ug/l	98
15) Acetone	2.45	58	420	0.746 ug/l	84
18) Methylene Chloride	2.85	84	1522	0.541 ug/l #	88
22) cis-1,2-Dichloroethene	4.60	96	931	0.315 ug/l #	55
23) tert-Butyl Alcohol	3.06	59	161	0.249 ug/l #	1
36) 1,2-Dichloroethane	6.20	62	857	0.213 ug/l #	92
45) 1,4-Dioxane	7.75	88	102	1.531 ug/l #	77
54) 1,2-Dibromoethane	9.68	107	568	0.205 ug/l	84
64) Chlorobenzene	10.14	112	1426	0.215 ug/l	94
67) m/p-Xylenes	10.36	106	954	0.217 ug/l	94
83) 1,3-Dichlorobenzene	12.02	146	1999	0.413 ug/l	88
84) 1,4-Dichlorobenzene	12.02	146	1999	0.416 ug/l	88
87) 1,2-Dichlorobenzene	12.40	146	1249	0.259 ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	2488	0.792 ug/l #	96
90) Hexachlorobutadiene	13.78	225	651	0.399 ug/l	85
91) Naphthalene	13.83	128	3243	0.319 ug/l #	95

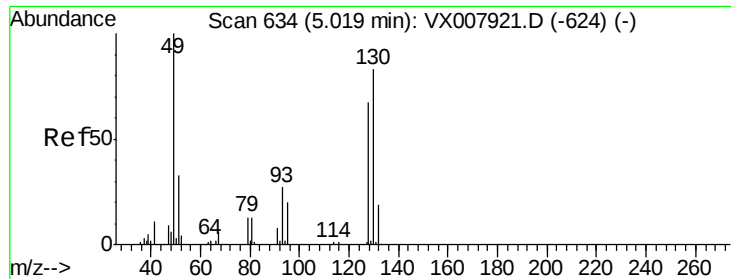
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031819\
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Acq On : 18 Mar 2019 16:55
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ClientSampleId :
TB-3-15-19

Quant Time: Mar 19 02:41:13 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X031819W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Mar 18 14:34:46 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX008169.D

Acq: 18 Mar 2019 16:55

Instrument :

MSVOA_X

ClientSampled :

TB-3-15-19

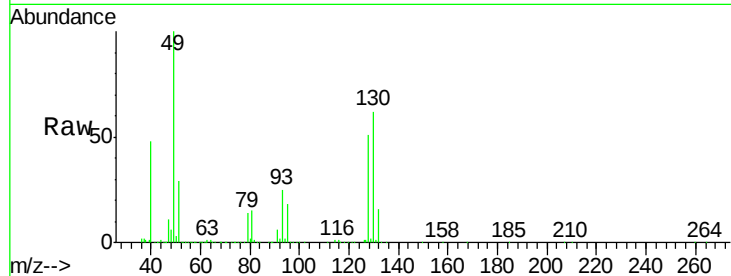
Tot Ion:128 Resp: 51372

Ion Ratio Lower Upper

128 100

49 191.9 0.0 350.8

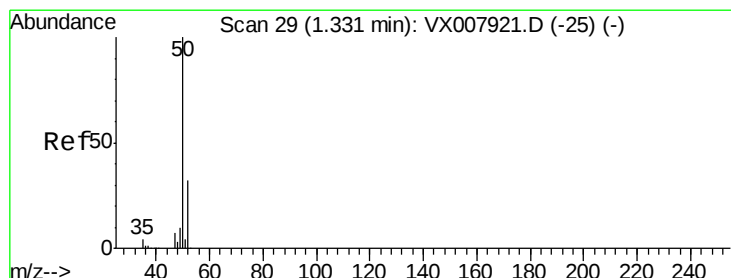
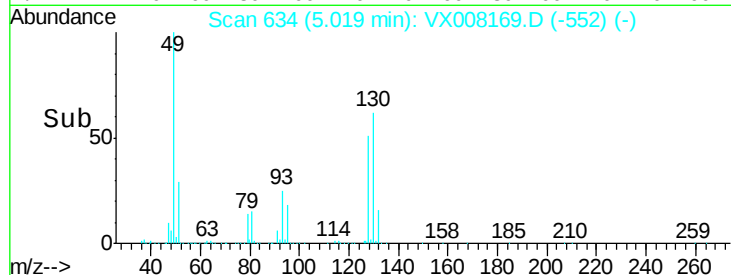
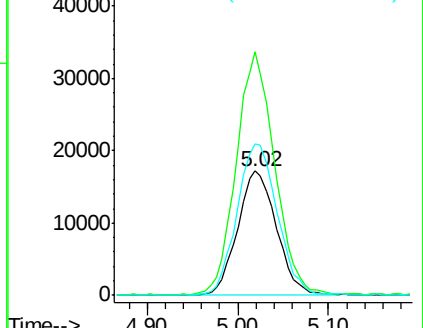
130 125.8 0.0 325.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.349 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX008169.D

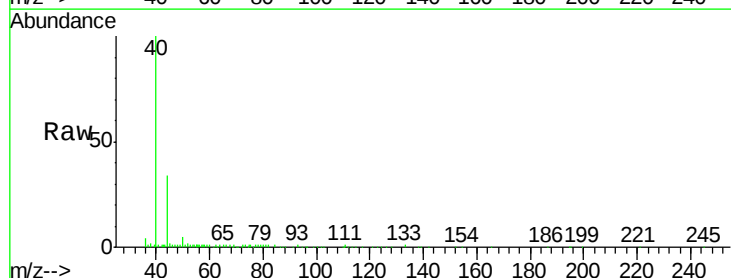
Acq: 18 Mar 2019 16:55

Tgt Ion: 50 Resp: 1014

Ion Ratio Lower Upper

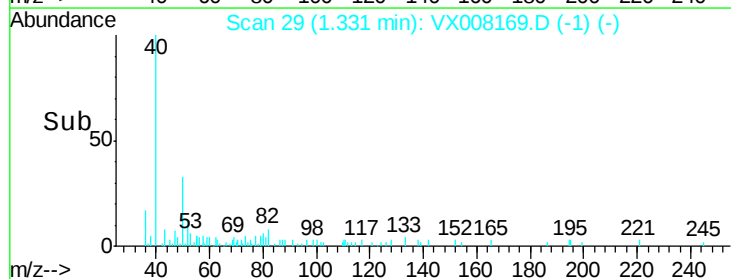
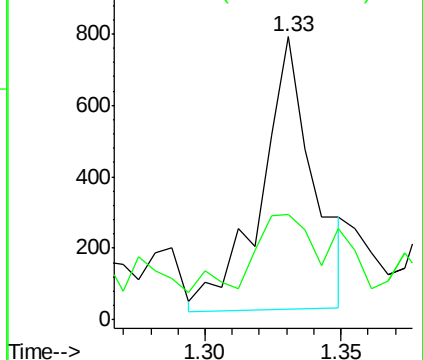
50 100

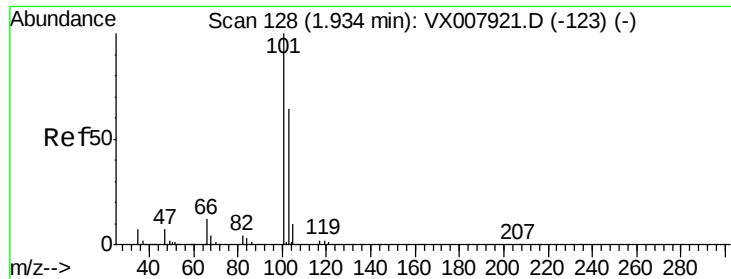
52 29.6 27.5 41.3



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



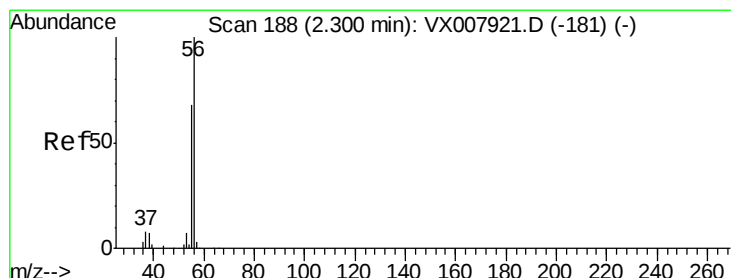
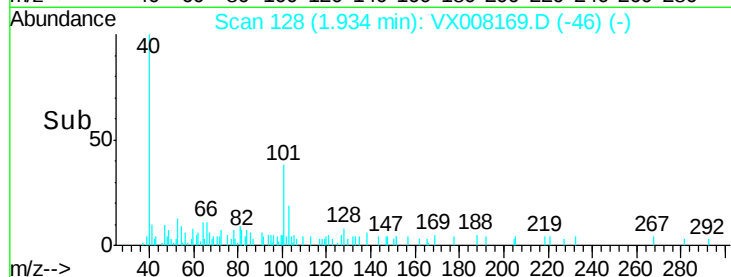
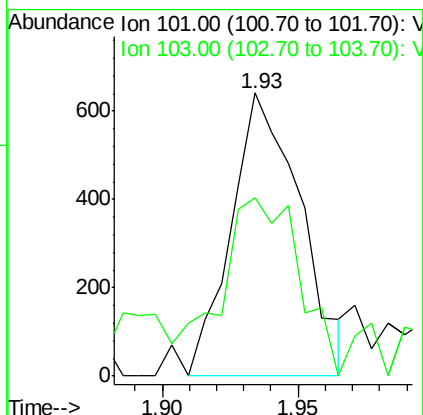
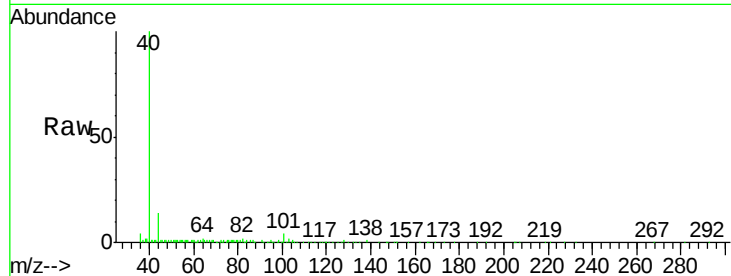


#7

Trichlorofluoromethane
 Concen: 0.300 ug/l
 RT: 1.93 min Scan# 128
 Delta R.T. -0.00 min
 Lab File: VX008169.D
 Acq: 18 Mar 2019 16:55

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-3-15-19

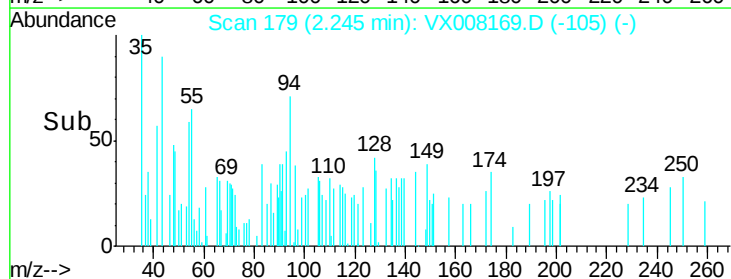
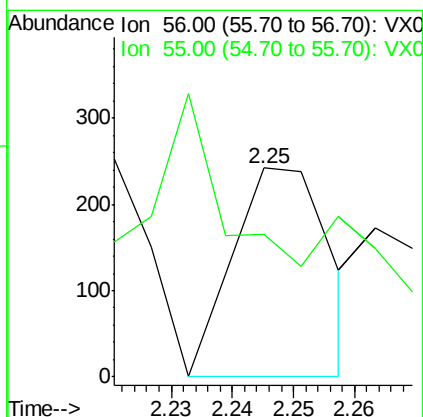
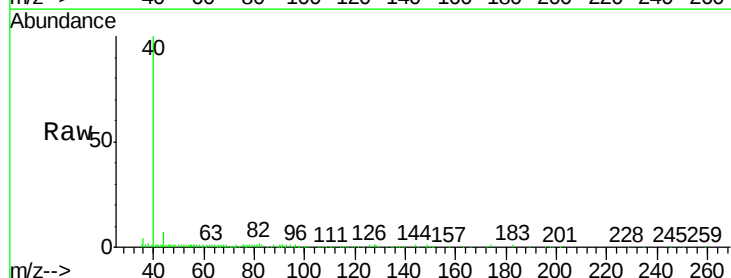
Tot Ion:101 Resp: 1130
 Ion Ratio Lower Upper
 101 100
 103 69.8 50.4 75.6

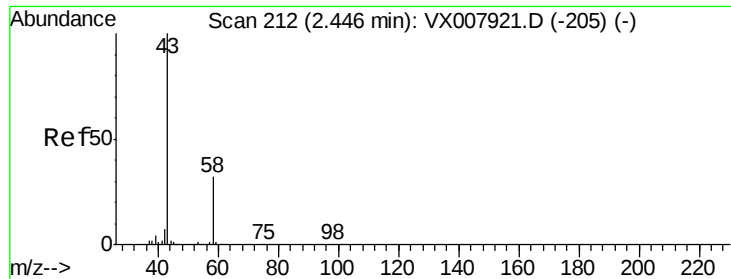


#13

Acrolein
 Concen: 0.435 ug/l
 RT: 2.25 min Scan# 179
 Delta R.T. -0.05 min
 Lab File: VX008169.D
 Acq: 18 Mar 2019 16:55

Tgt Ion: 56 Resp: 264
 Ion Ratio Lower Upper
 56 100
 55 71.6 58.6 87.8





#15

Acetone

Concen: 0.746 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX008169.D

Acq: 18 Mar 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

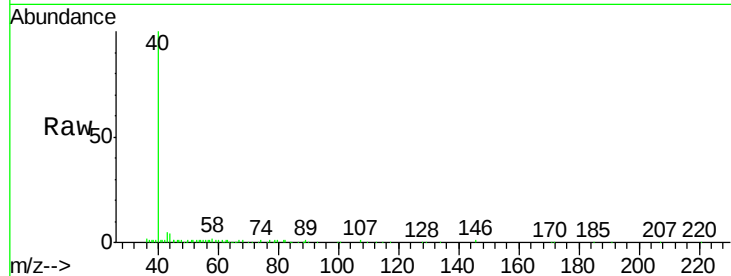
TB-3-15-19

Tot Ion: 58 Resp: 420

Ion Ratio Lower Upper

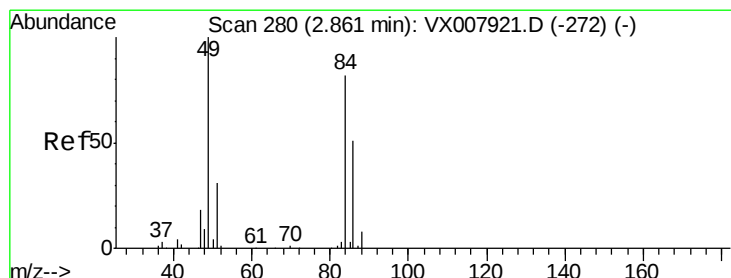
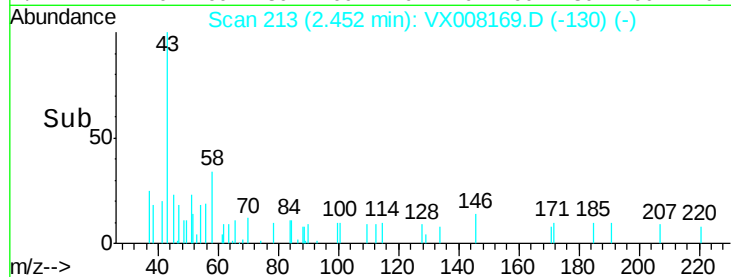
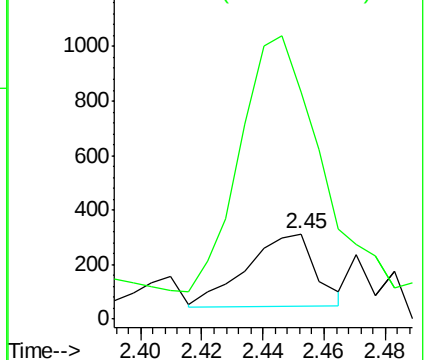
58 100

43 280.8 249.8 374.6



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#18

Methylene Chloride

Concen: 0.541 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX008169.D

Acq: 18 Mar 2019 16:55

Tgt Ion: 84 Resp: 1522

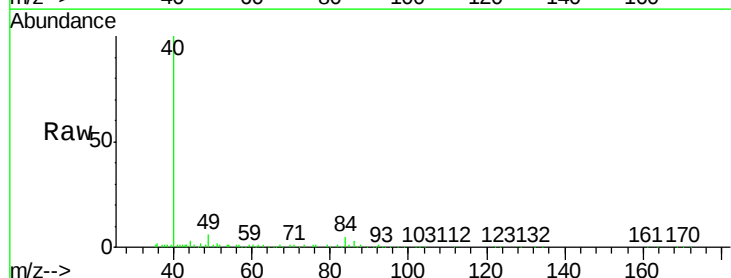
Ion Ratio Lower Upper

84 100

49 110.4 96.1 144.1

51 15.8 29.1 43.7#

86 56.3 47.3 70.9

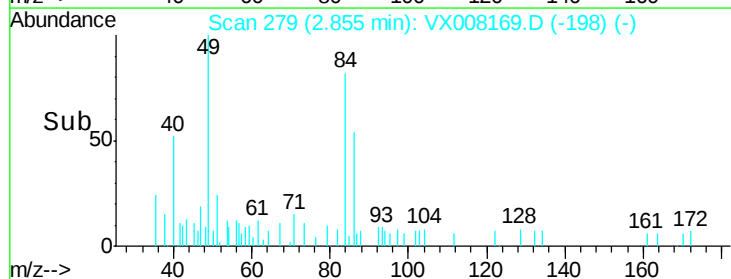
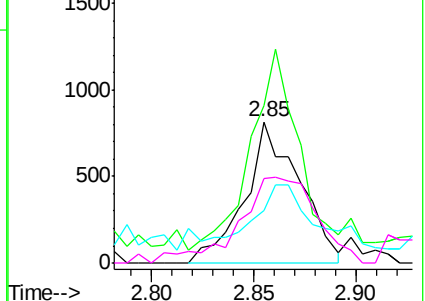


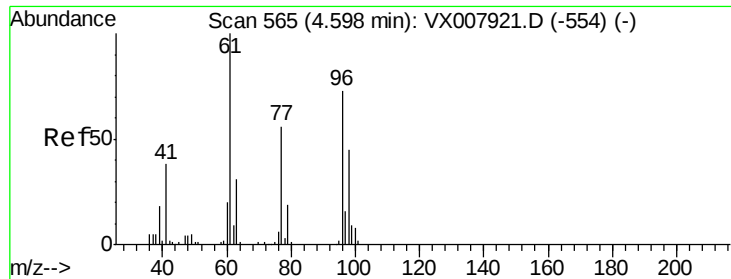
Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



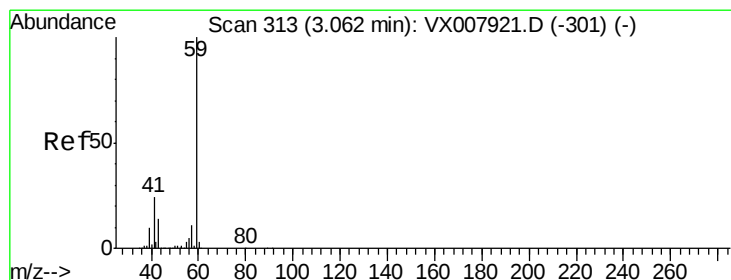
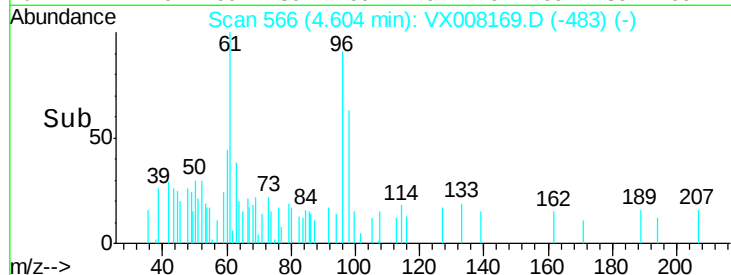
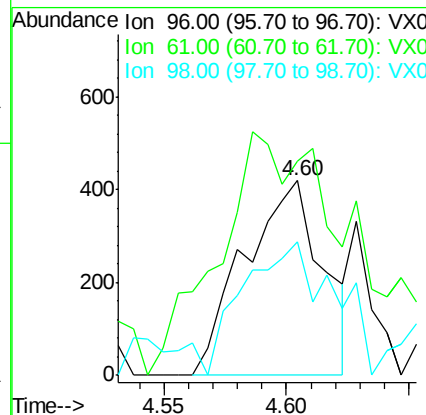
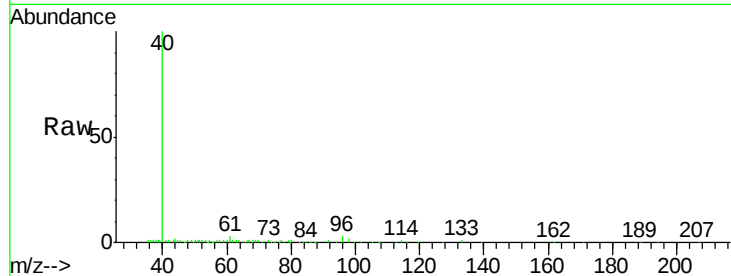


#22

cis-1,2-Dichloroethene
 Concen: 0.315 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX008169.D
 Acq: 18 Mar 2019 16:55

Instrument :
 MSVOA_X
 ClientSampled :
 TB-3-15-19

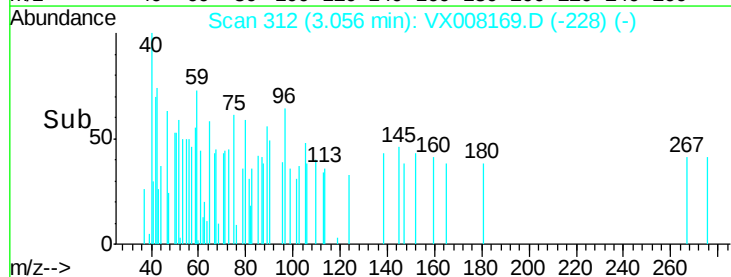
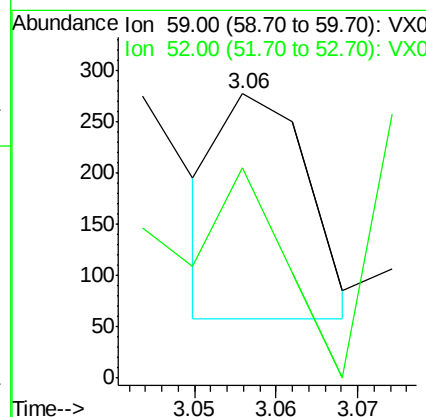
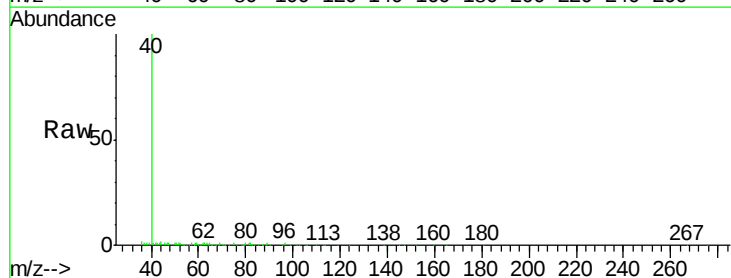
Tot Ion: 96 Resp: 931
 Ion Ratio Lower Upper
 96 100
 61 55.2 103.5 155.3#
 98 71.9 52.1 78.1

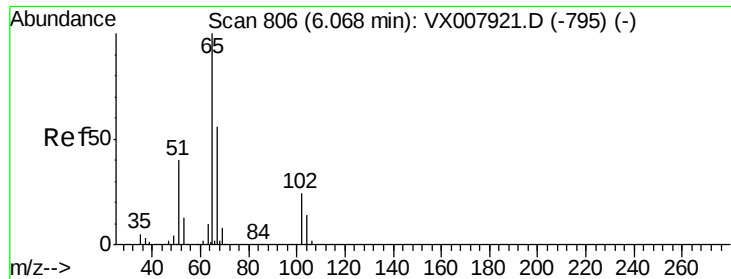


#23

tert-Butyl Alcohol
 Concen: 0.249 ug/l
 RT: 3.06 min Scan# 312
 Delta R.T. 0.01 min
 Lab File: VX008169.D
 Acq: 18 Mar 2019 16:55

Tgt Ion: 59 Resp: 161
 Ion Ratio Lower Upper
 59 100
 52 127.3 0.2 0.2#





#27

1,2-Dichloroethane-d4

Concen: 30.274 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008169.D

Acq: 18 Mar 2019 16:55

Instrument :

MSVOA_X

ClientSampled :

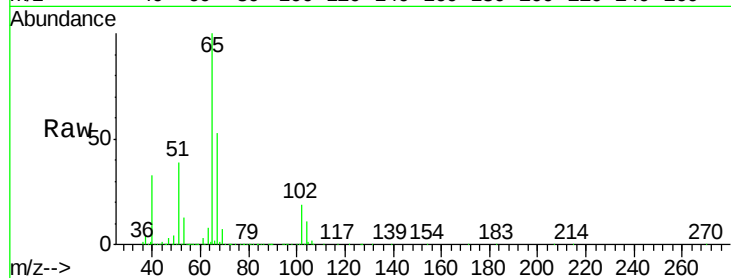
TB-3-15-19

Tot Ion: 65 Resp: 129368

Ion Ratio Lower Upper

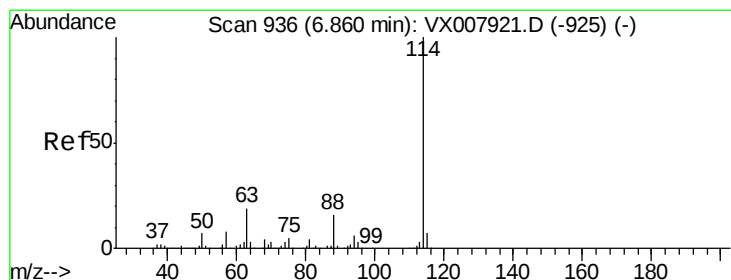
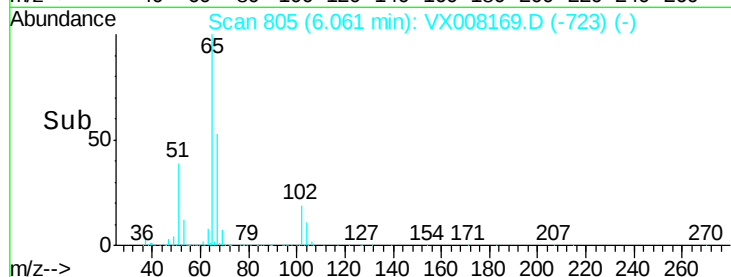
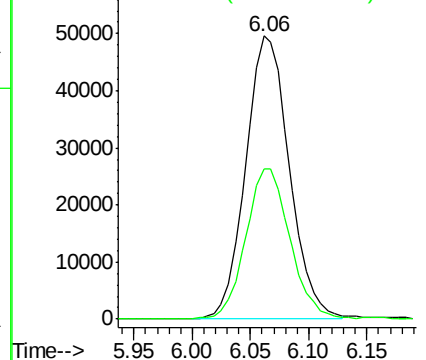
65 100

67 53.8 42.9 64.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008169.D

Acq: 18 Mar 2019 16:55

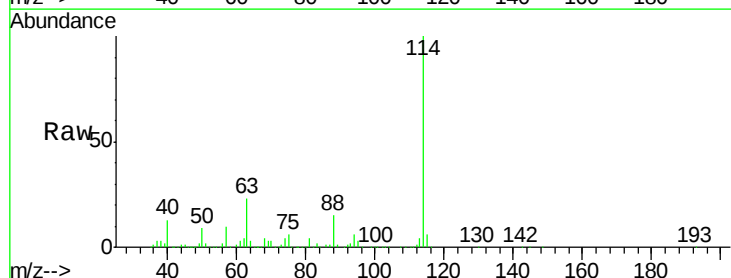
Tgt Ion: 114 Resp: 278077

Ion Ratio Lower Upper

114 100

63 23.1 14.2 21.4#

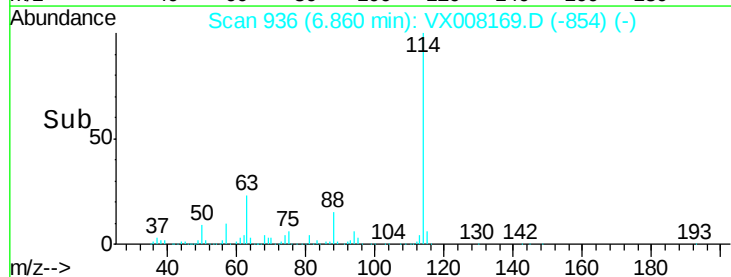
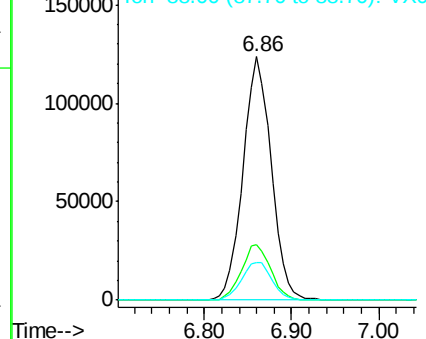
88 16.7 11.9 17.9

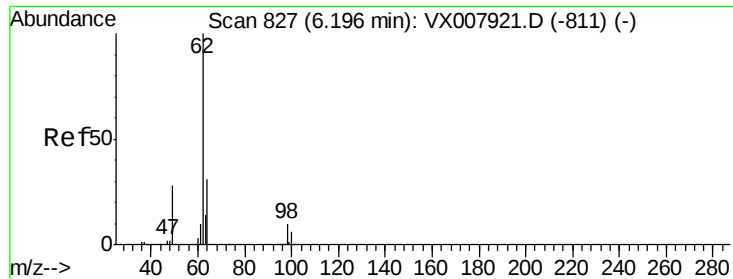


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#36

1,2-Dichloroethane

Concen: 0.213 ug/l

RT: 6.20 min Scan# 828

Delta R.T. 0.01 min

Lab File: VX008169.D

Acq: 18 Mar 2019 16:55

Instrument :

MSVOA_X

ClientSampled :

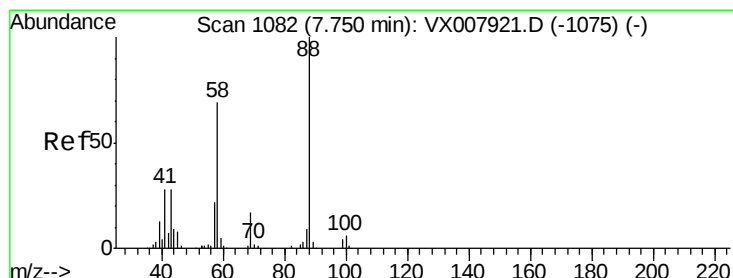
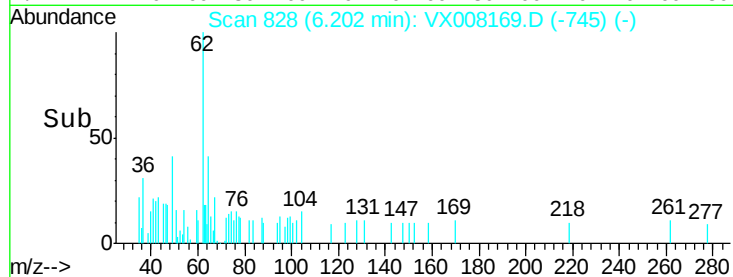
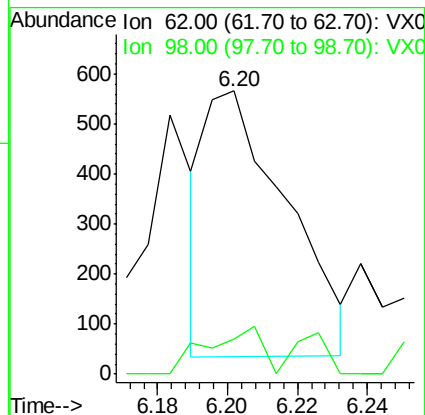
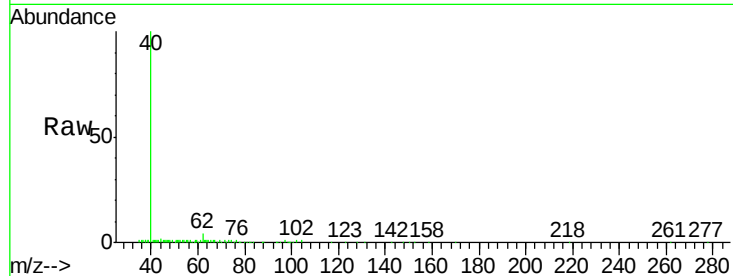
TB-3-15-19

Tot Ion: 62 Resp: 857

Ion Ratio Lower Upper

62 100

98 7.0 7.8 11.8#



#45

1,4-Dioxane

Concen: 1.531 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX008169.D

Acq: 18 Mar 2019 16:55

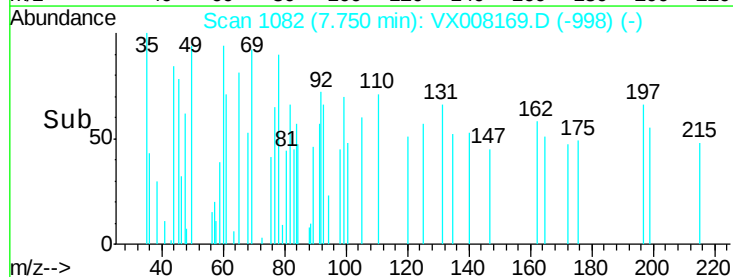
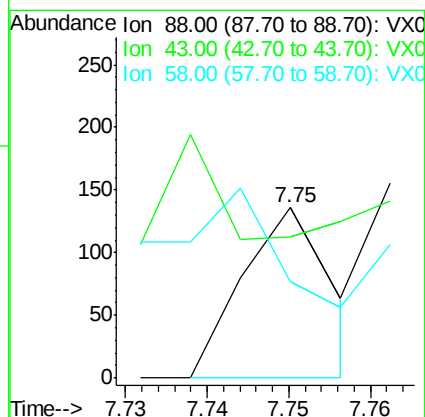
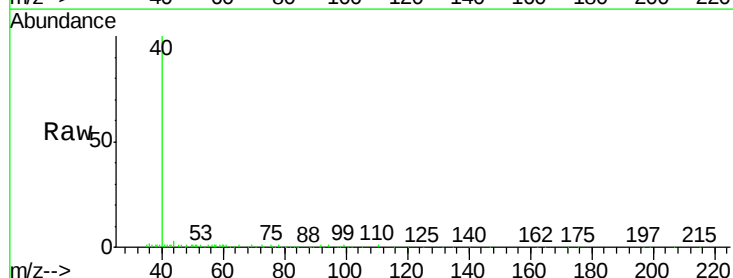
Tgt Ion: 88 Resp: 102

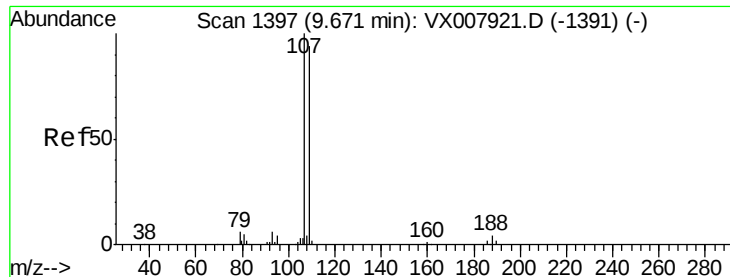
Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

58 57.8 51.6 77.4

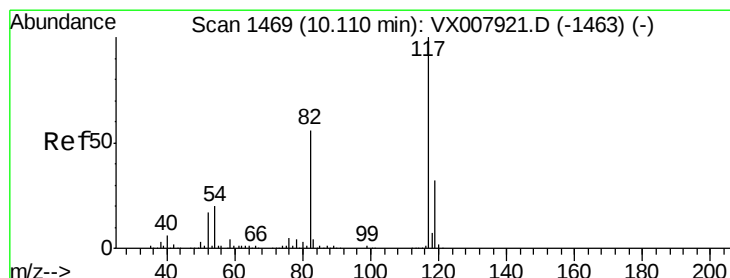
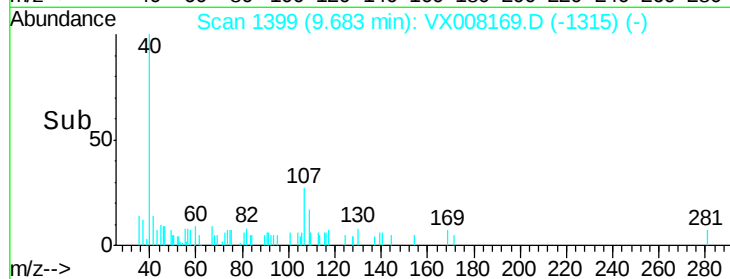
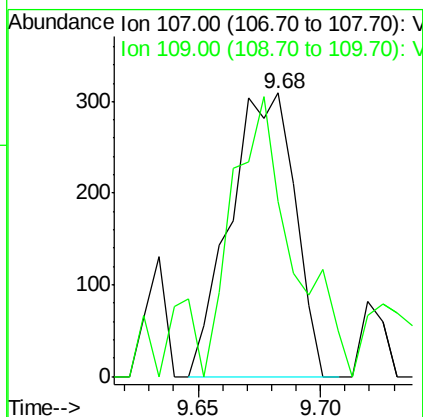
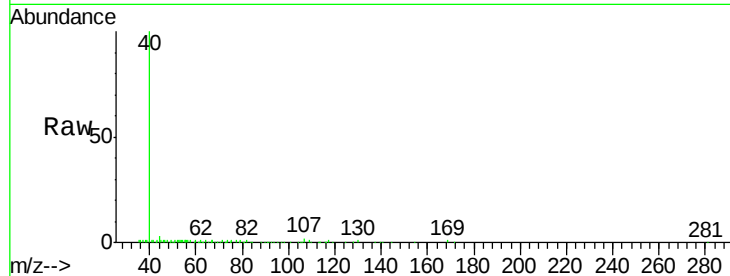




#54
 1,2-Dibromoethane
 Concen: 0.205 ug/l
 RT: 9.68 min Scan# 1399
 Delta R.T. 0.01 min
 Lab File: VX008169.D
 Acq: 18 Mar 2019 16:55

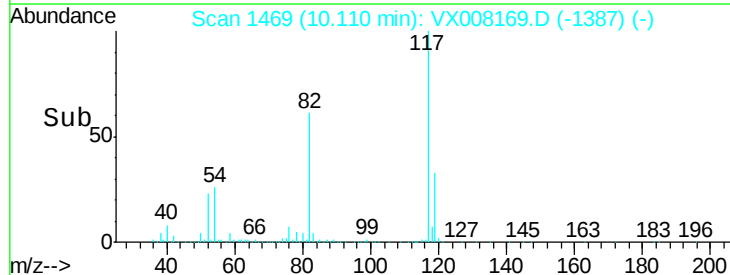
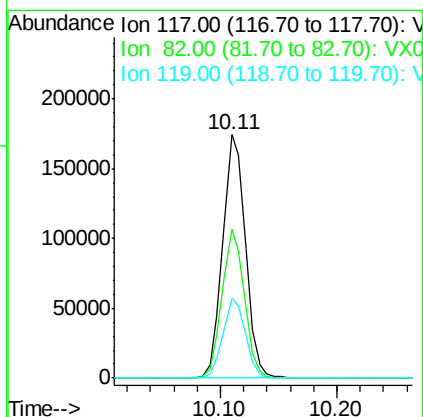
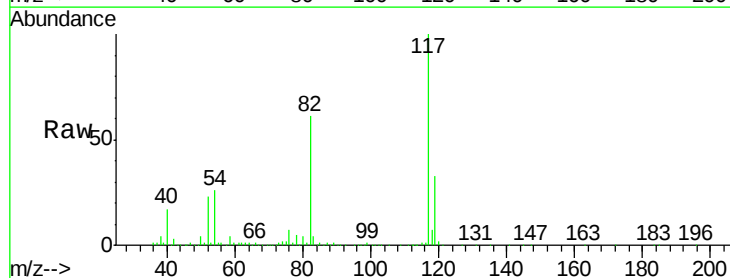
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-3-15-19

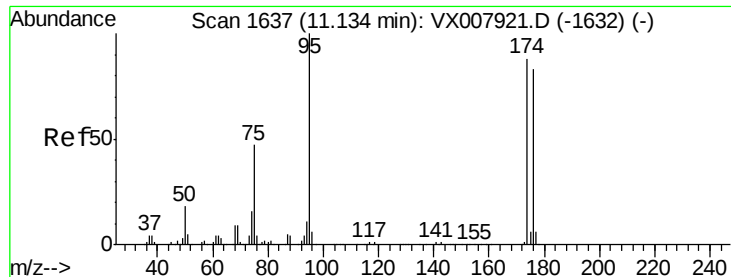
Tot Ion:107 Resp: 568
 Ion Ratio Lower Upper
 107 100
 109 80.5 76.6 115.0



#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 10.11 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VX008169.D
 Acq: 18 Mar 2019 16:55

Tgt Ion:117 Resp: 235864
 Ion Ratio Lower Upper
 117 100
 82 59.9 40.4 60.6
 119 32.1 25.8 38.6





#60

4-Bromofluorobenzene

Concen: 27.154 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008169.D

Acq: 18 Mar 2019 16:55

Instrument :

MSVOA_X

ClientSampled :

TB-3-15-19

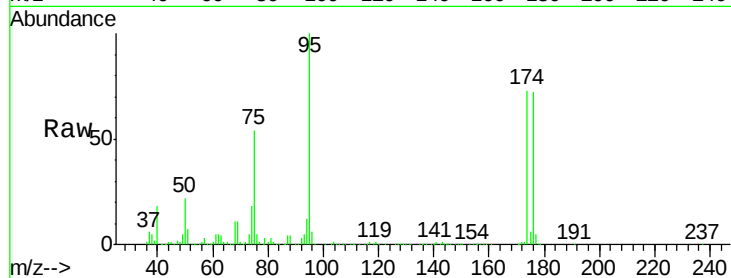
Tot Ion: 95 Resp: 106890

Ion Ratio Lower Upper

95 100

174 79.0 74.9 112.3

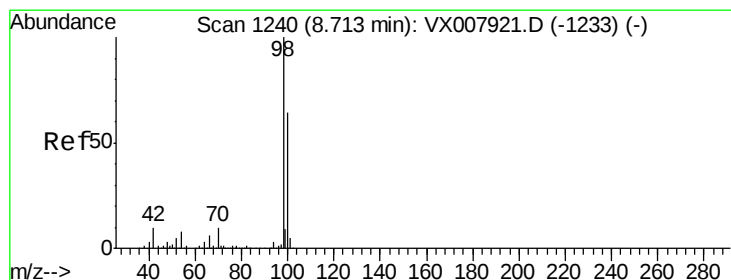
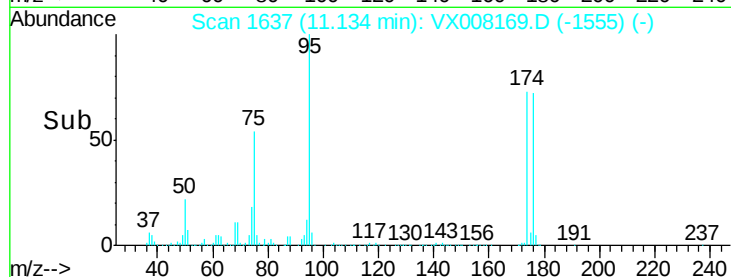
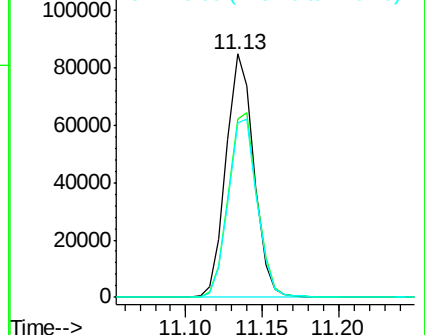
176 76.1 70.7 106.1



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Toluene-d8

Concen: 30.417 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008169.D

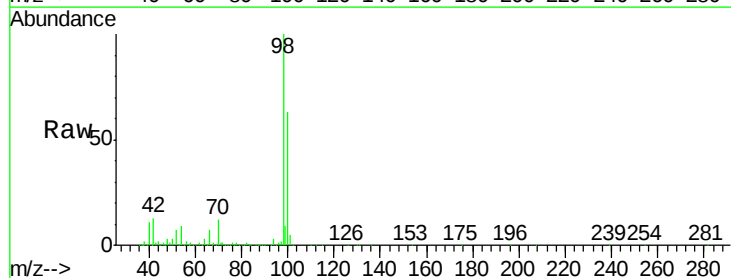
Acq: 18 Mar 2019 16:55

Tgt Ion: 98 Resp: 348580

Ion Ratio Lower Upper

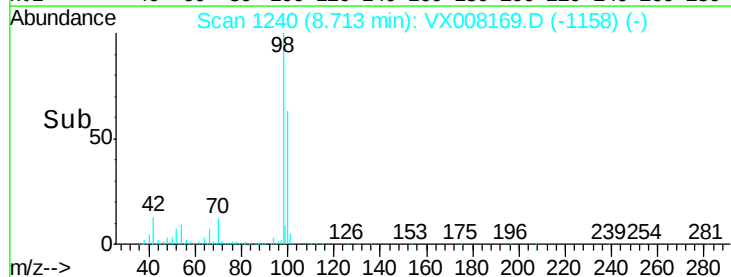
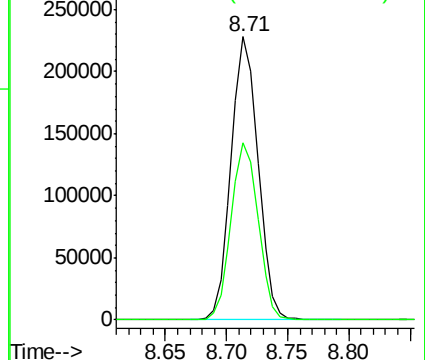
98 100

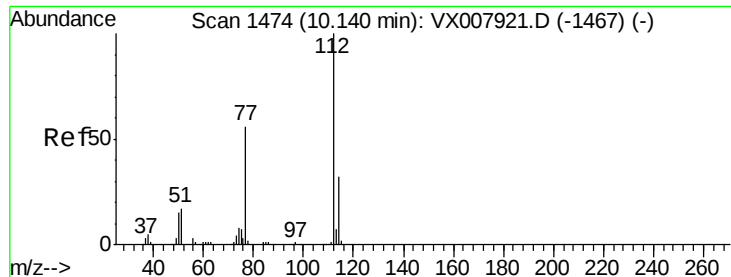
100 62.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#64

Chlorobenzene

Concen: 0.215 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.01 min

Lab File: VX008169.D

Acq: 18 Mar 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

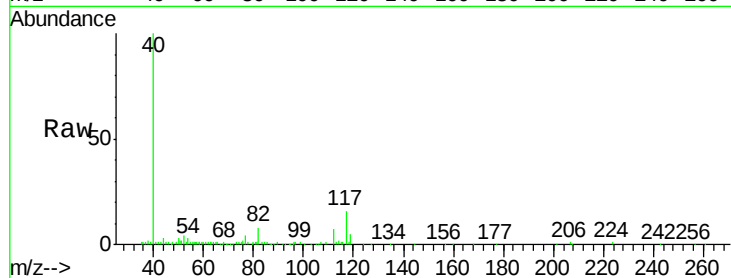
TB-3-15-19

Tot Ion:112 Resp: 1426

Ion Ratio Lower Upper

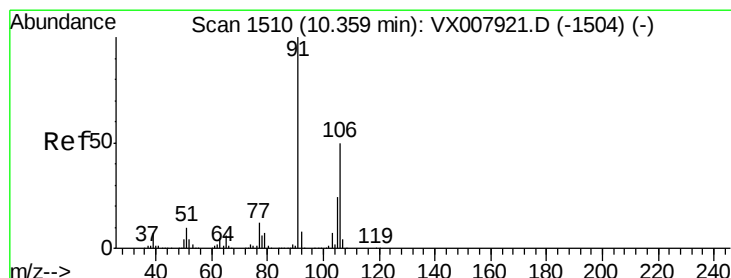
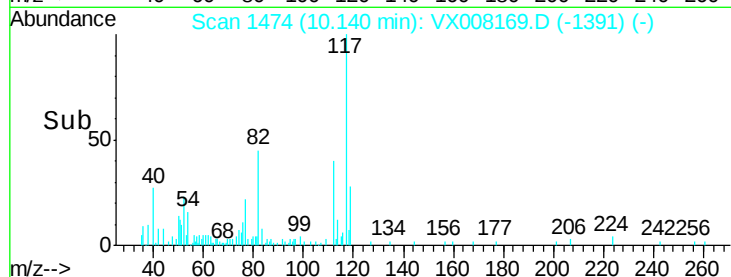
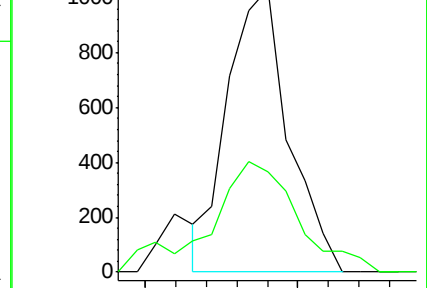
112 100

114 28.3 25.4 38.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#67

m/p-Xylenes

Concen: 0.217 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX008169.D

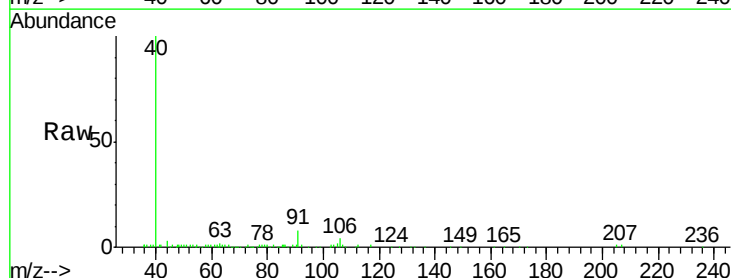
Acq: 18 Mar 2019 16:55

Tgt Ion:106 Resp: 954

Ion Ratio Lower Upper

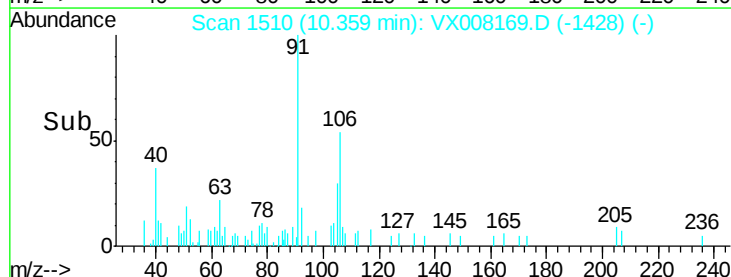
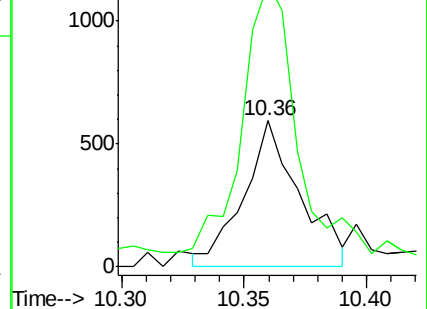
106 100

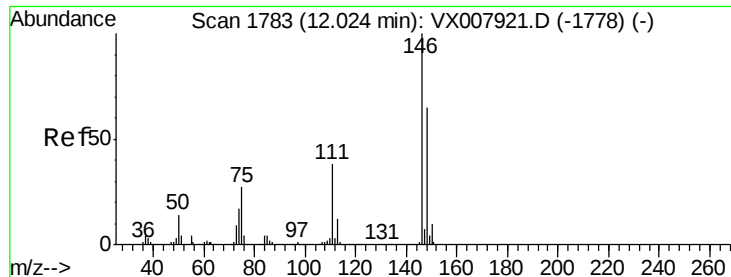
91 187.9 157.0 235.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

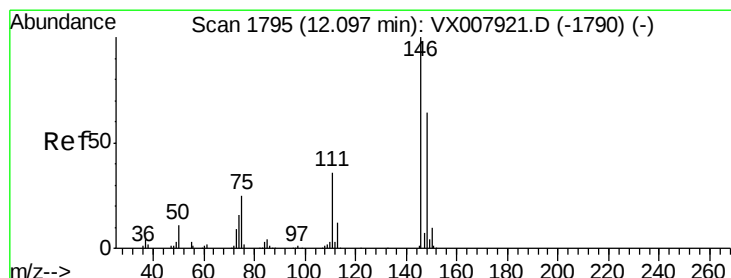
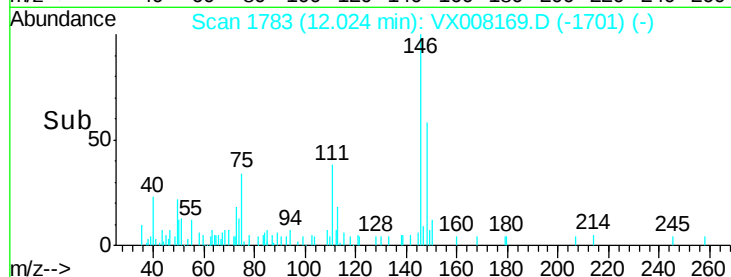
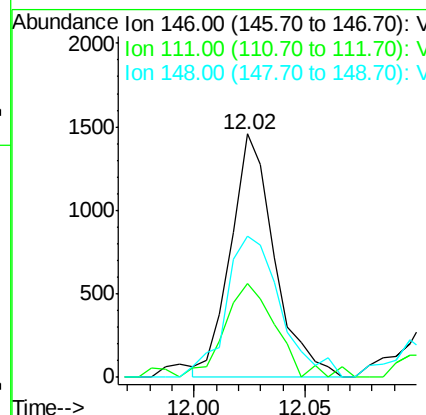
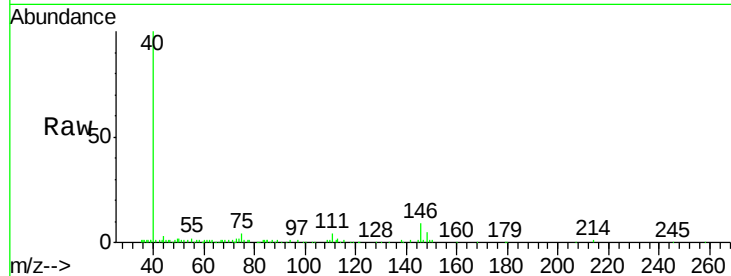




#83
 1,3-Dichlorobenzene
 Concen: 0.413 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX008169.D
 Acq: 18 Mar 2019 16:55

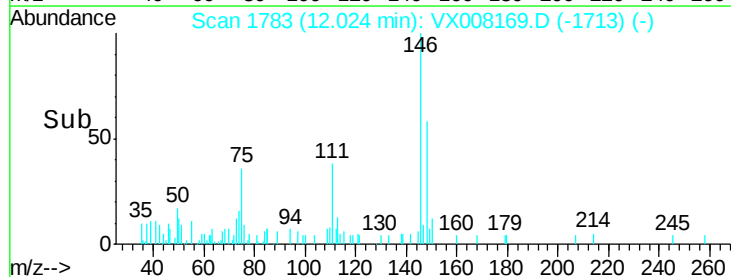
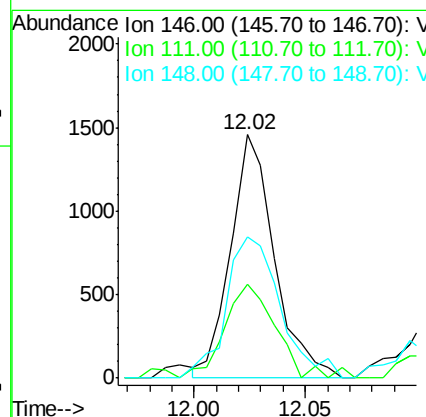
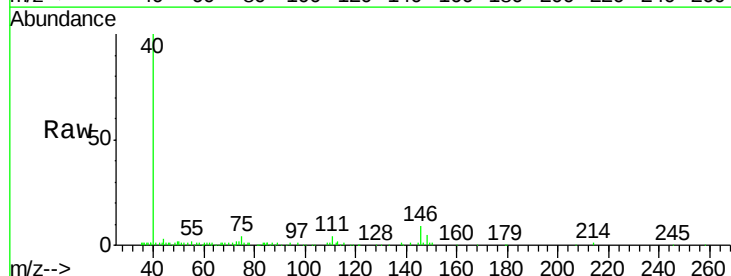
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-3-15-19

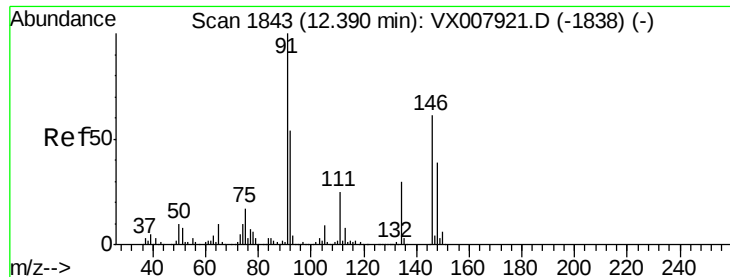
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.6	18.8	56.3
148	71.5	30.6	91.8



#84
 1,4-Dichlorobenzene
 Concen: 0.416 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.07 min
 Lab File: VX008169.D
 Acq: 18 Mar 2019 16:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.6	17.6	52.8
148	71.5	31.4	94.2





#87

1,2-Dichlorobenzene

Concen: 0.259 ug/l

RT: 12.40 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VX008169.D

Acq: 18 Mar 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

TB-3-15-19

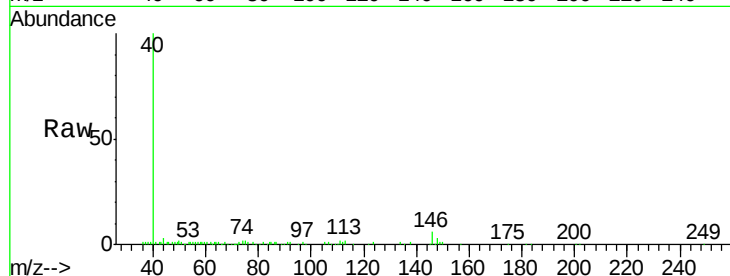
Tot Ion:146 Resp: 1249

Ion Ratio Lower Upper

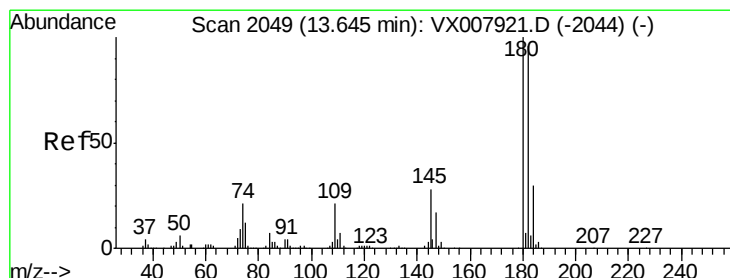
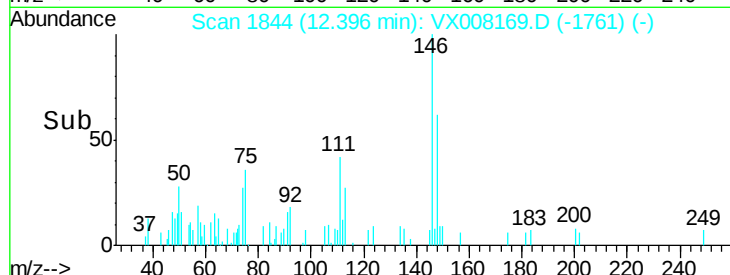
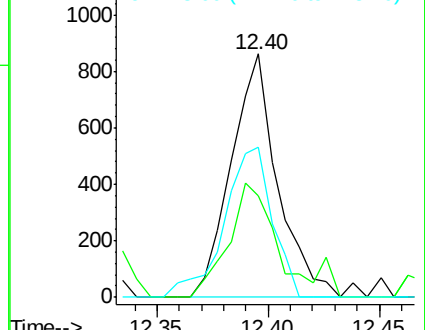
146 100

111 47.3 19.3 57.8

148 63.8 32.1 96.3



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#89

1,2,4-Trichlorobenzene

Concen: 0.792 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VX008169.D

Acq: 18 Mar 2019 16:55

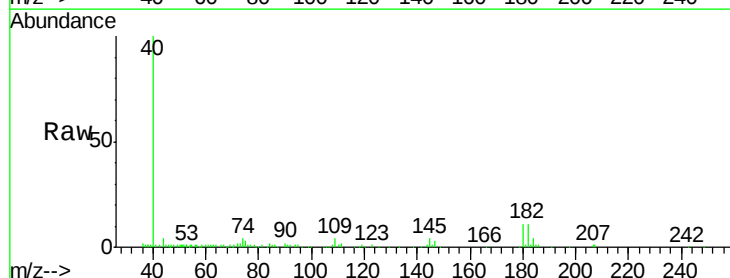
Tgt Ion:180 Resp: 2488

Ion Ratio Lower Upper

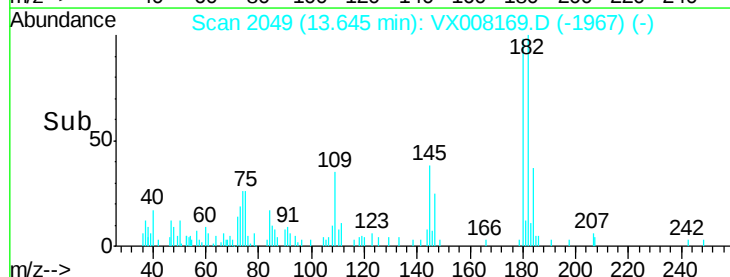
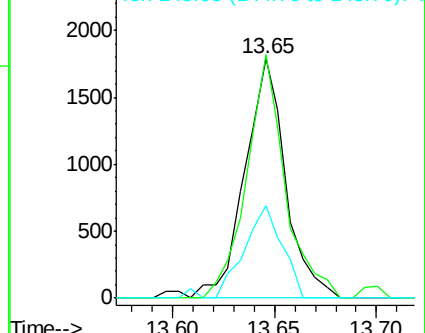
180 100

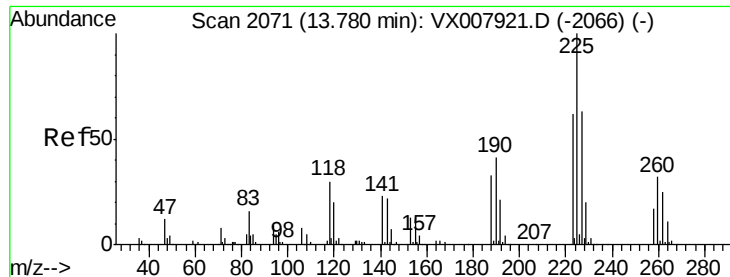
182 95.8 75.6 113.4

145 35.5 23.0 34.6#



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

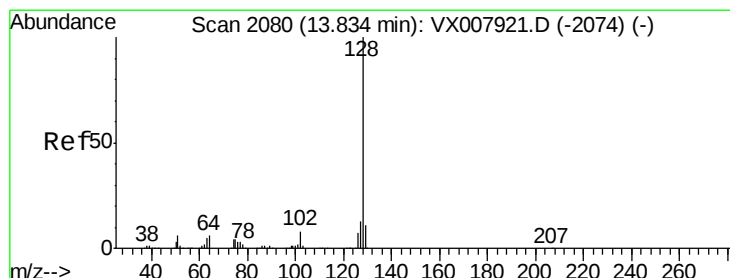
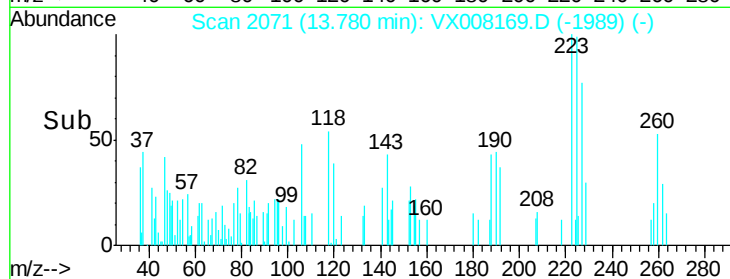
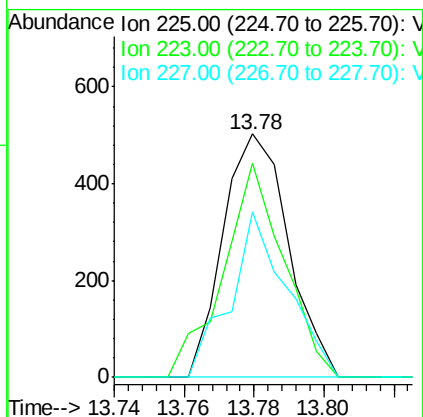
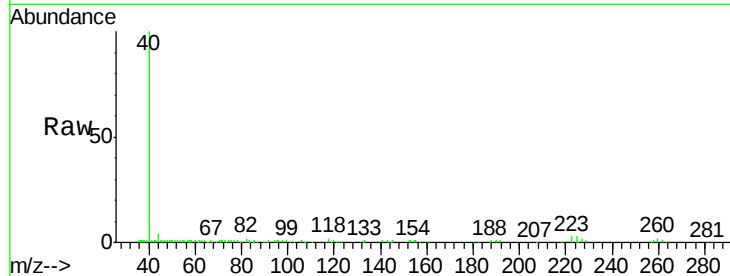




#90
Hexachlorobutadiene
Concen: 0.399 ug/l
RT: 13.78 min Scan# 2071
Delta R.T. -0.00 min
Lab File: VX008169.D
Acq: 18 Mar 2019 16:55

Instrument :
MSVOA_X
ClientSampled :
TB-3-15-19

Tot Ion:225 Resp: 651
Ion Ratio Lower Upper
225 100
223 82.0 0.0 123.8
227 59.3 0.0 124.4



#91
Naphthalene
Concen: 0.319 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX008169.D
Acq: 18 Mar 2019 16:55

Tgt Ion:128 Resp: 3243
Ion Ratio Lower Upper
128 100
127 14.6 10.5 15.7
129 13.4 8.9 13.3#

