

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO041719\
 Data File : VX009016.D
 Acq On : 17 Apr 2019 15:47
 Operator : JC/SP
 Sample : K2449-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB11-190415

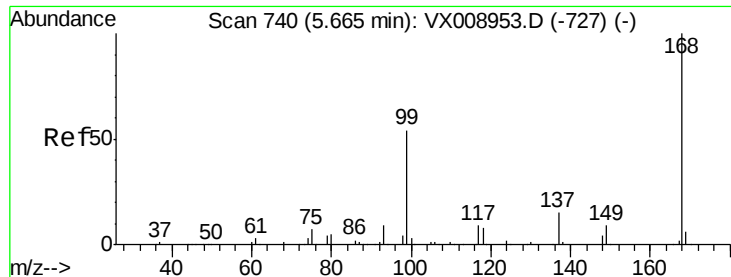
Quant Time: Apr 18 01:37:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	259390	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	411877	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	354142	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	145639	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	168246	46.02	ug/l	0.00
Spiked Amount			Recovery	=	92.04%	
35) Dibromofluoromethane	5.50	113	124038	46.92	ug/l	0.00
Spiked Amount			Recovery	=	93.84%	
50) Toluene-d8	8.71	98	510074	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	
62) 4-Bromofluorobenzene	11.13	95	168308	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	412	4.018	ug/l #	66
10) Methyl Iodide	2.51	142	266	4.498	ug/l #	77
11) Tert butyl alcohol	3.01	59	4113	5.069	ug/l #	77
16) Acetone	2.45	43	2981	1.573	ug/l	99
17) Carbon Disulfide	2.57	76	773	1.345	ug/l #	82
18) Methyl Acetate	2.78	43	9041	1.911	ug/l	99
20) Methylene Chloride	2.85	84	1061	0.327	ug/l #	84
25) 2-Butanone	4.69	43	786	0.259	ug/l #	54
28) Bromochloromethane	5.01	49	47	Below Cal	#	21
31) Cyclohexane	5.66	56	5966	1.025	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	20545	4.823	ug/l #	50
38) Carbon Tetrachloride	5.67	117	24564	6.802	ug/l #	17
49) 1,4-Dioxane	7.58	88	21	0.257	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	85589	24.067	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	85589	61.788	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009016.D

Acq: 17 Apr 2019 15:47

Instrument :

MSVOA_X

ClientSampled :

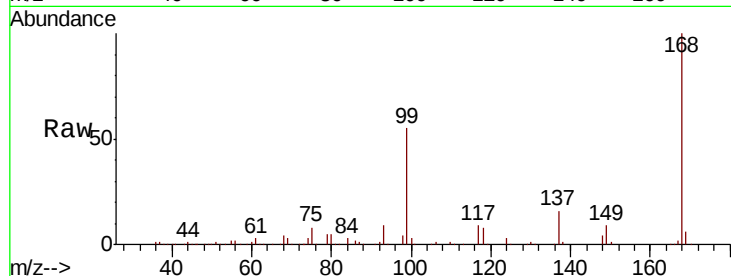
Z3-TB11-190415

Tot Ion:168 Resp: 259390

Ion Ratio Lower Upper

168 100

99 55.0 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

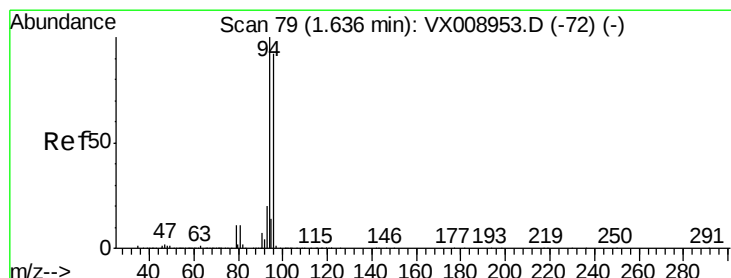
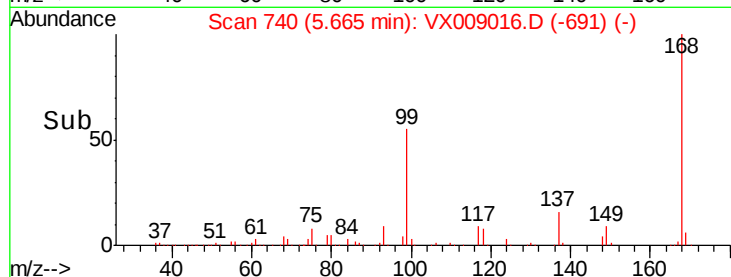
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 4.018 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009016.D

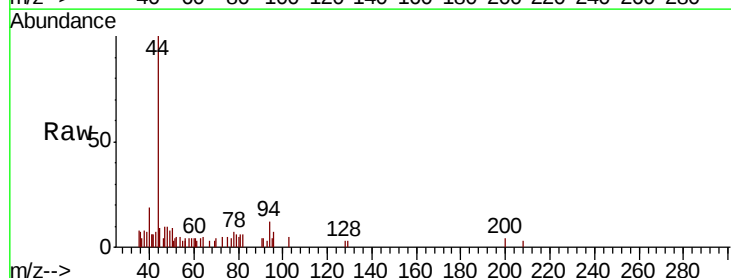
Acq: 17 Apr 2019 15:47

Tgt Ion: 94 Resp: 412

Ion Ratio Lower Upper

94 100

96 59.6 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

150

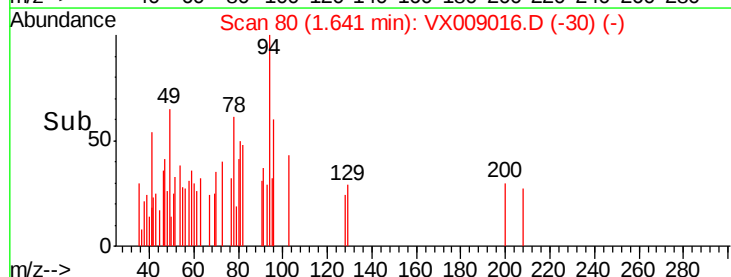
100

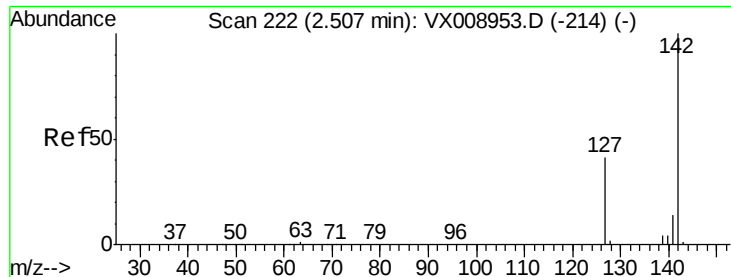
50

0

Time-->

1.60 1.65 1.70

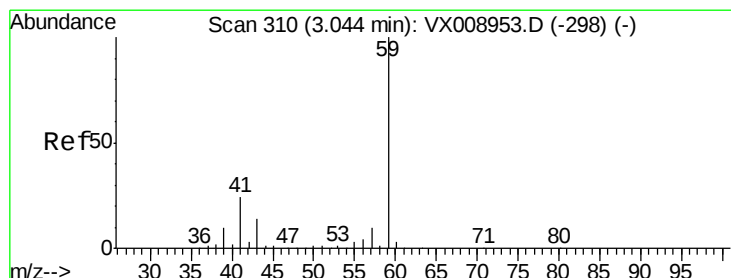
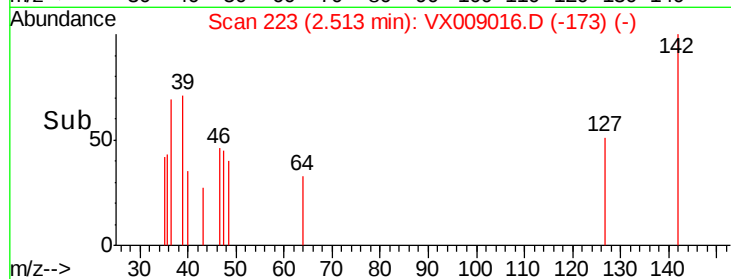
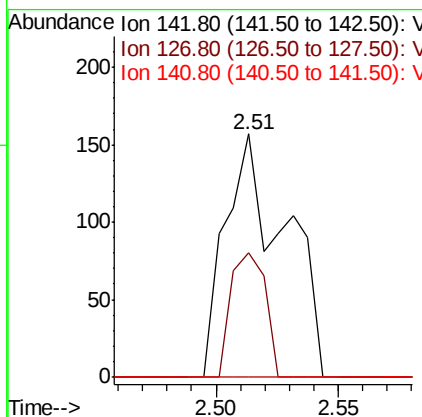
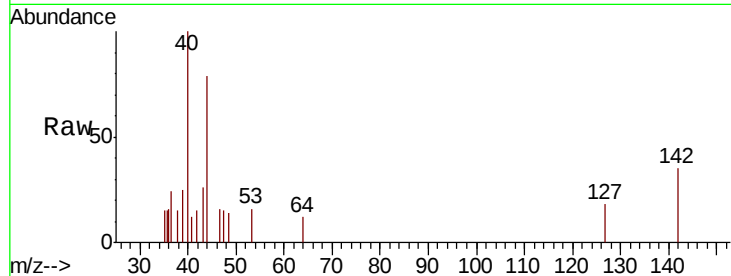




#10
Methvl Iodide
Concen: 4.498 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009016.D
Acq: 17 Apr 2019 15:47

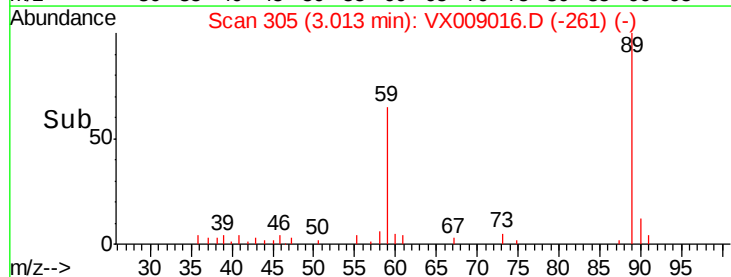
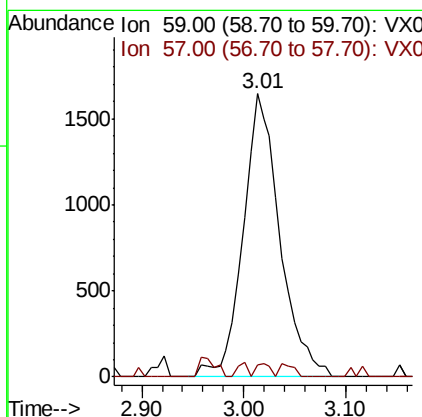
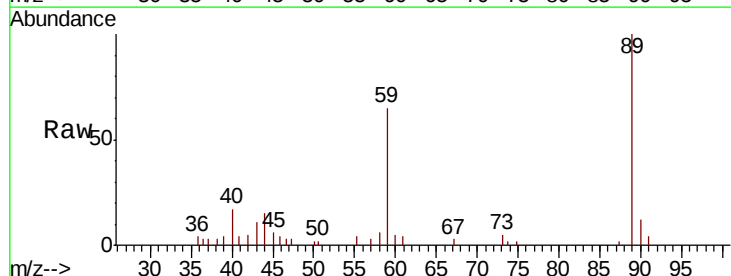
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB11-190415

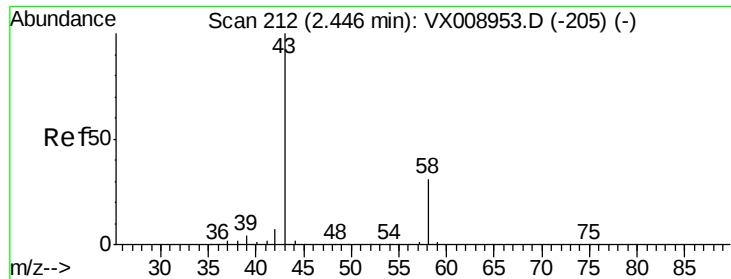
Tot Ion:142 Resp: 266
Ion Ratio Lower Upper
142 100
127 29.3 32.8 49.2#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 5.069 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.03 min
Lab File: VX009016.D
Acq: 17 Apr 2019 15:47

Tgt Ion: 59 Resp: 4113
Ion Ratio Lower Upper
59 100
57 1.8 8.4 12.6#





#16

Acetone

Concen: 1.573 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009016.D

Acq: 17 Apr 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

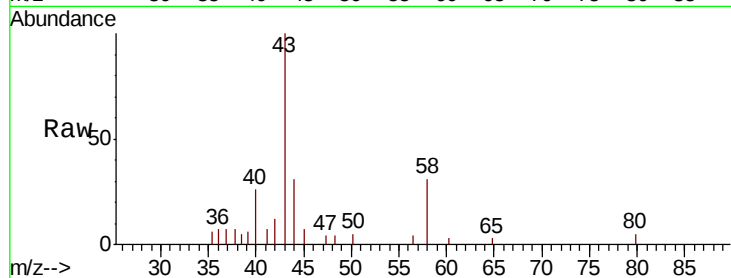
Z3-TB11-190415

Tot Ion: 43 Resp: 2981

Ion Ratio Lower Upper

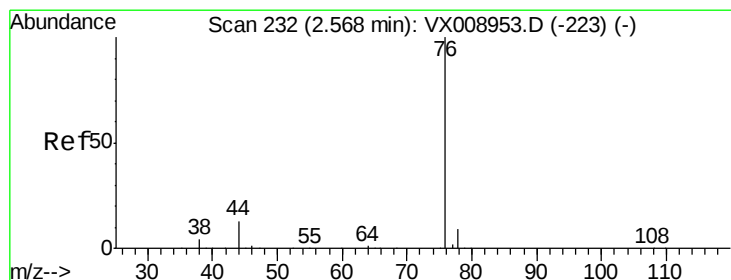
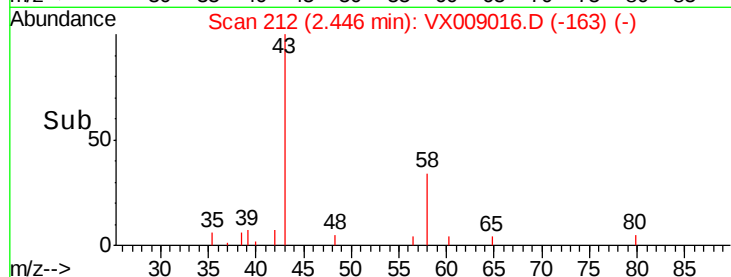
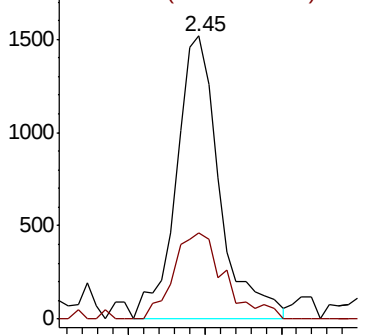
43 100

58 30.6 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.345 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009016.D

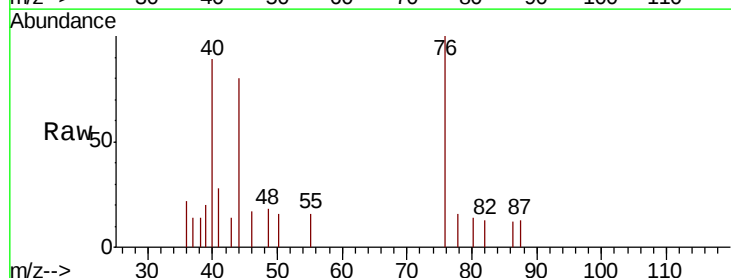
Acq: 17 Apr 2019 15:47

Tgt Ion: 76 Resp: 773

Ion Ratio Lower Upper

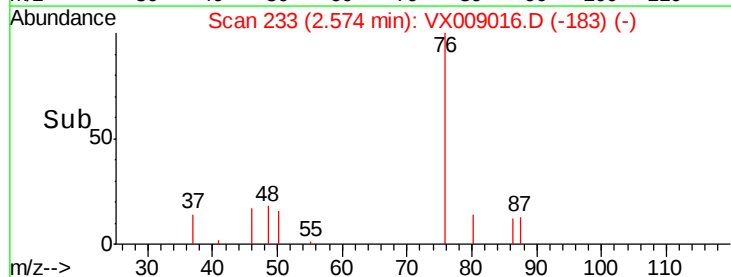
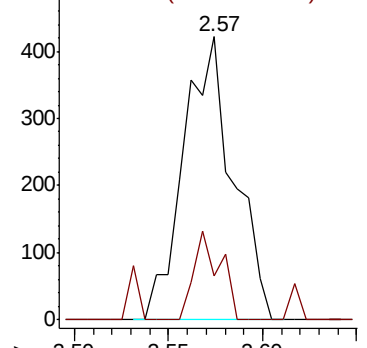
76 100

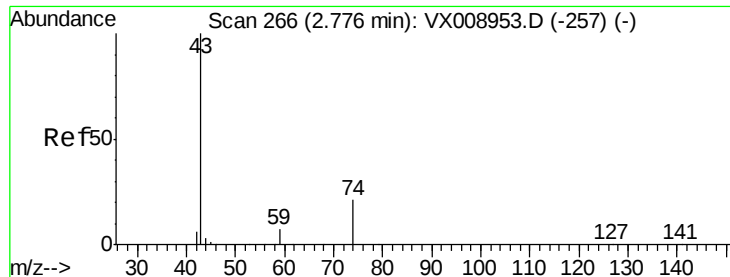
78 15.6 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

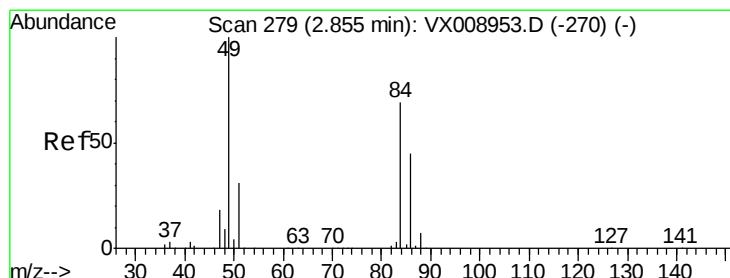
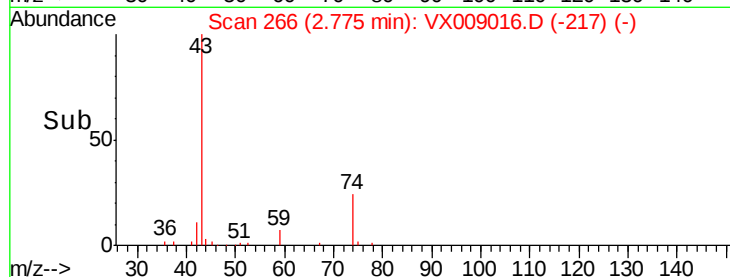
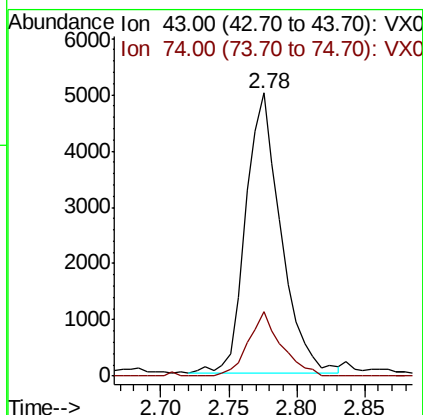
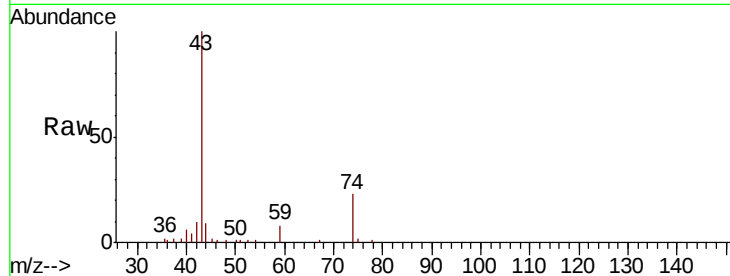




#18
Methvl Acetate
Concen: 1.911 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX009016.D
Acq: 17 Apr 2019 15:47

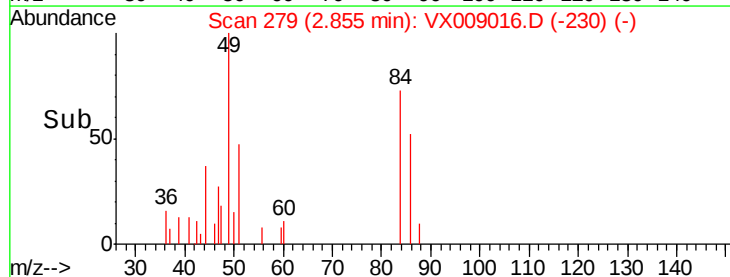
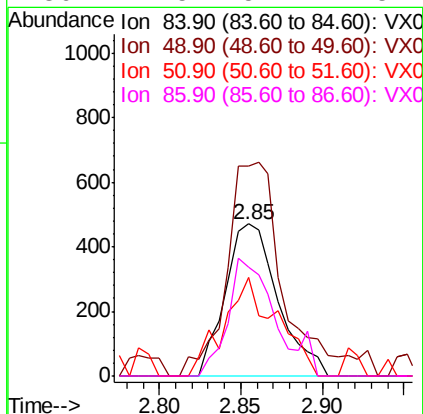
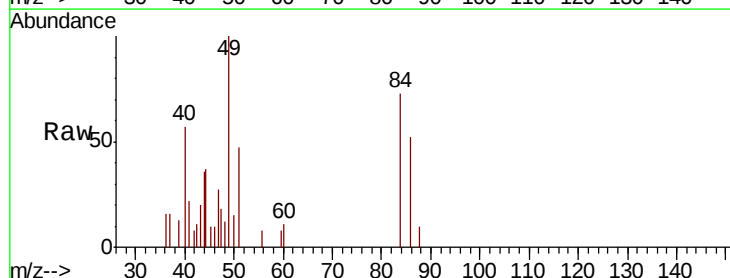
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB11-190415

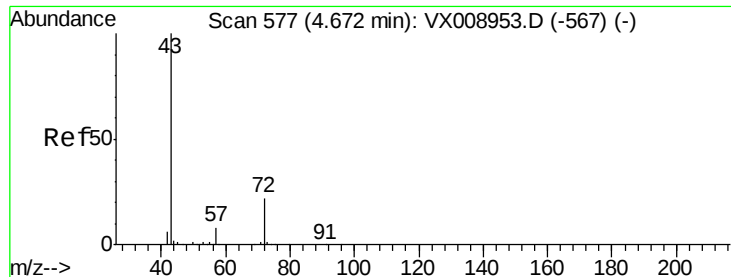
Tot Ion: 43 Resp: 9041
Ion Ratio Lower Upper
43 100
74 21.5 16.6 25.0



#20
Methylene Chloride
Concen: 0.327 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX009016.D
Acq: 17 Apr 2019 15:47

Tgt Ion: 84 Resp: 1061
Ion Ratio Lower Upper
84 100
49 125.3 115.4 173.0
51 65.0 35.8 53.6#
86 71.5 52.1 78.1





#25

2-Butanone

Concen: 0.259 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009016.D

Acq: 17 Apr 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

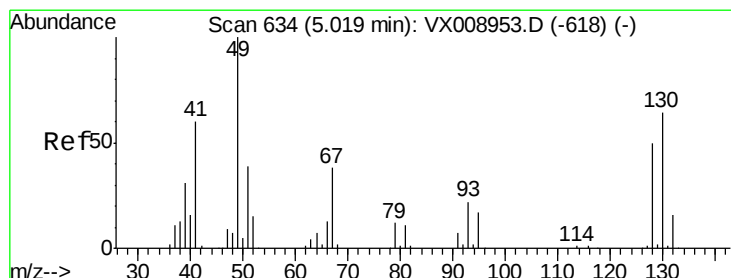
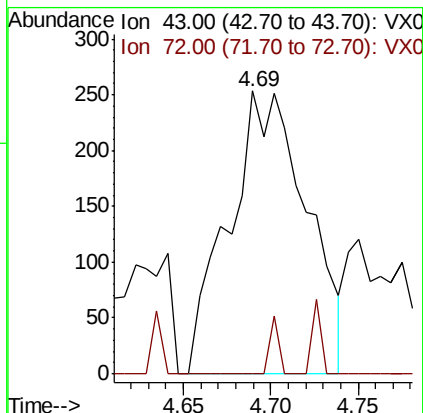
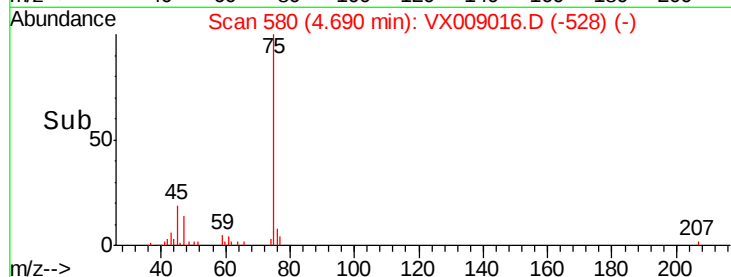
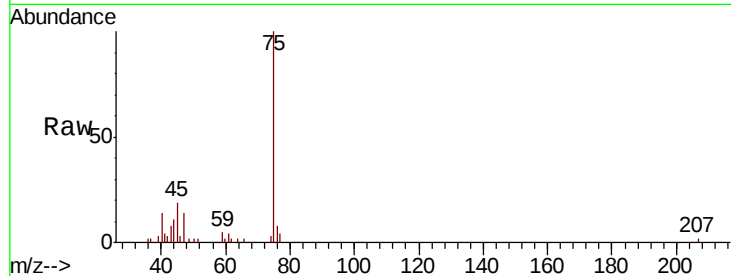
Z3-TB11-190415

Tot Ion: 43 Resp: 786

Ion Ratio Lower Upper

43 100

72 0.0 17.5 26.3#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009016.D

Acq: 17 Apr 2019 15:47

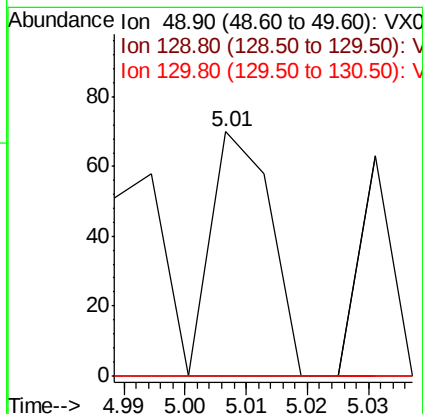
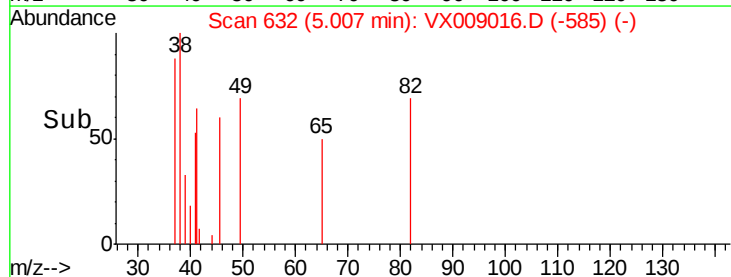
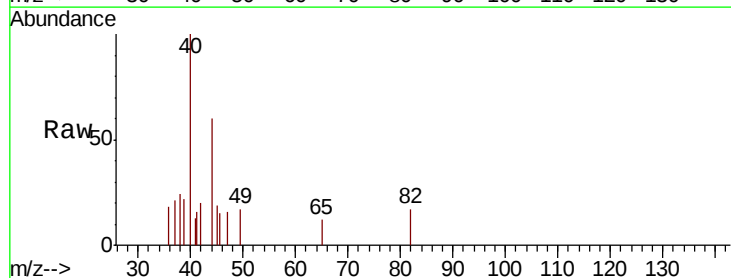
Tgt Ion: 49 Resp: 47

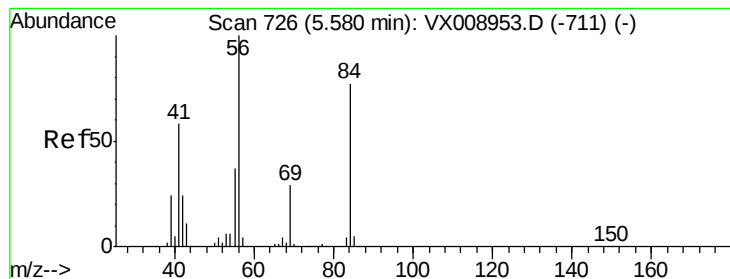
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 50.4 75.6#





#31

Cyclohexane

Concen: 1.025 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009016.D

Acq: 17 Apr 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB11-190415

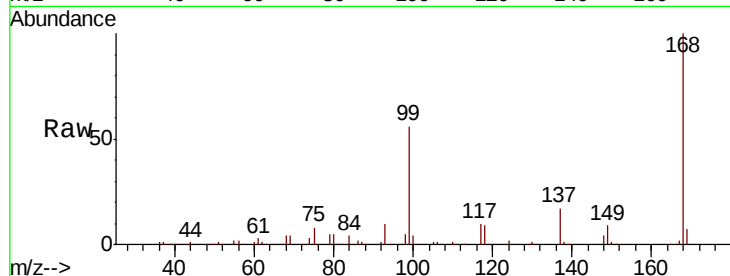
Tot Ion: 56 Resp: 5966

Ion Ratio Lower Upper

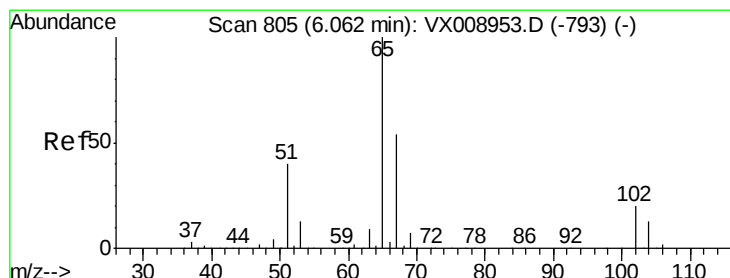
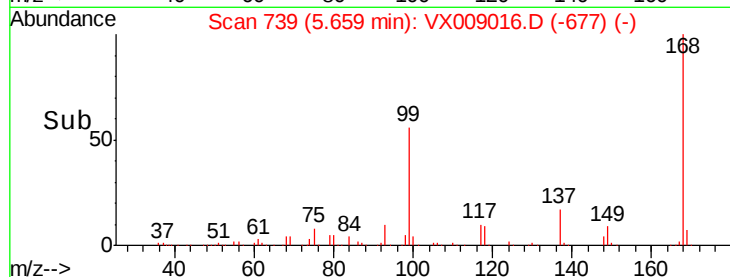
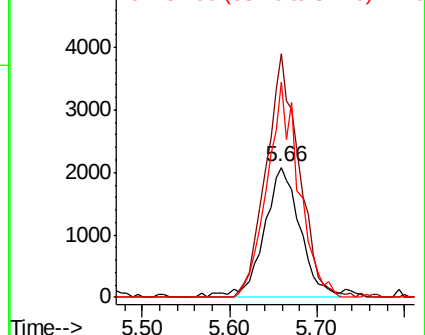
56 100

69 186.8 23.3 34.9#

84 165.1 61.7 92.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.025 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009016.D

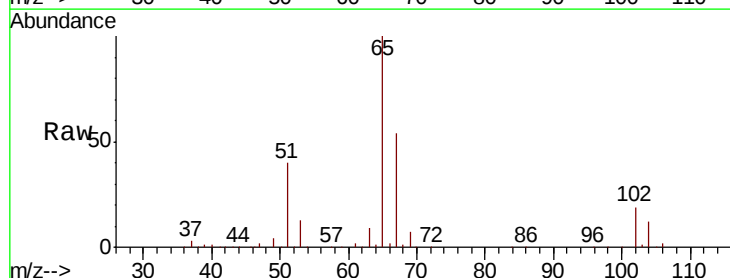
Acq: 17 Apr 2019 15:47

Tgt Ion: 65 Resp: 168246

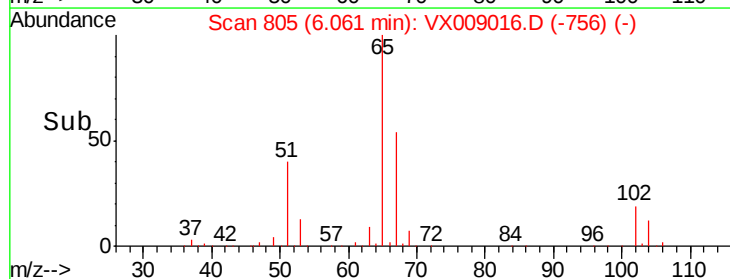
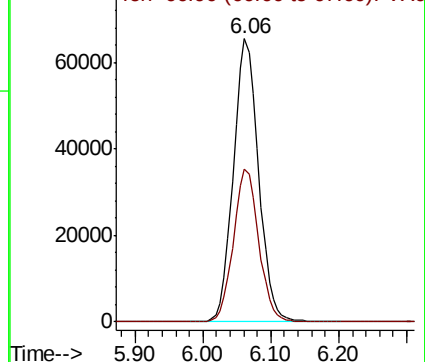
Ion Ratio Lower Upper

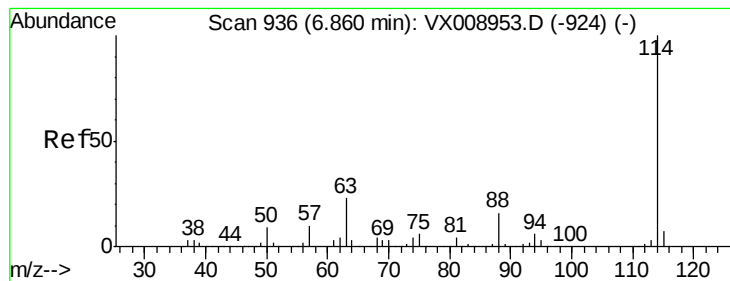
65 100

67 54.3 0.0 108.6



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# 936

Delta R.T. -0.00 min

Lab File: VX009016.D

Acq: 17 Apr 2019 15:47

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Z3-TB11-190415

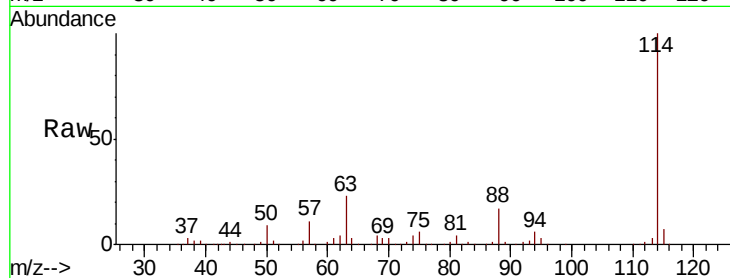
Tot Ion:114 Resp: 411877

Ion Ratio Lower Upper

114 100

63 23.5 0.0 46.0

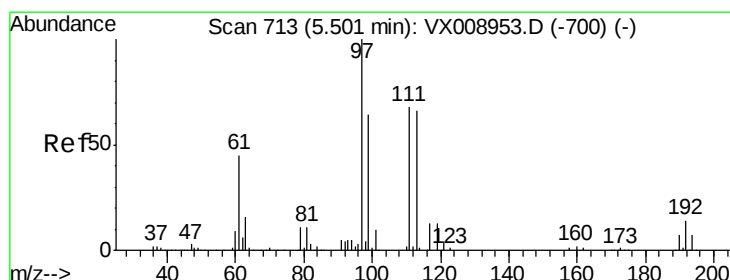
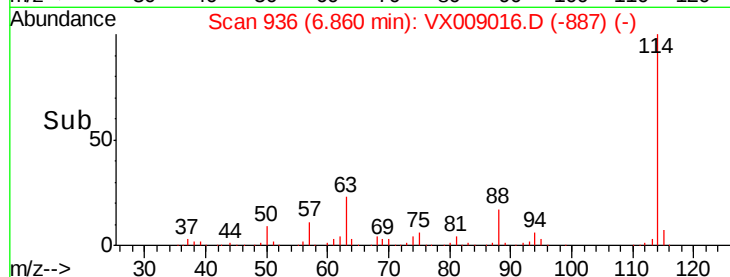
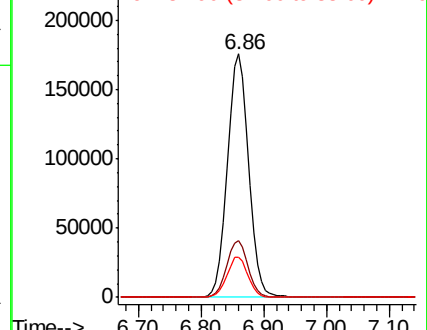
88 16.5 0.0 32.6



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: 46.925 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009016.D

Acq: 17 Apr 2019 15:47

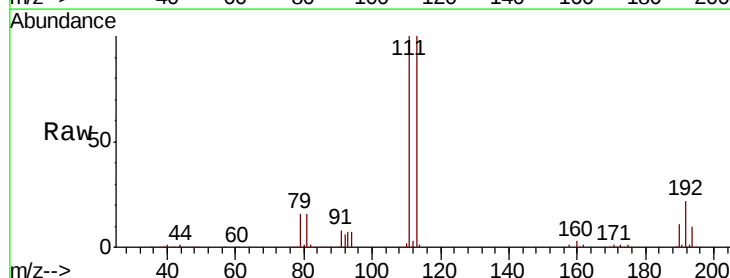
Tgt Ion:113 Resp: 124038

Ion Ratio Lower Upper

113 100

111 101.6 82.9 124.3

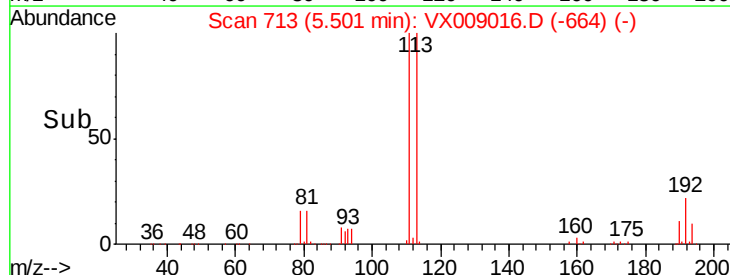
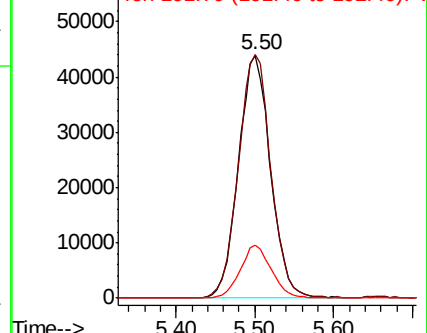
192 21.3 17.4 26.0

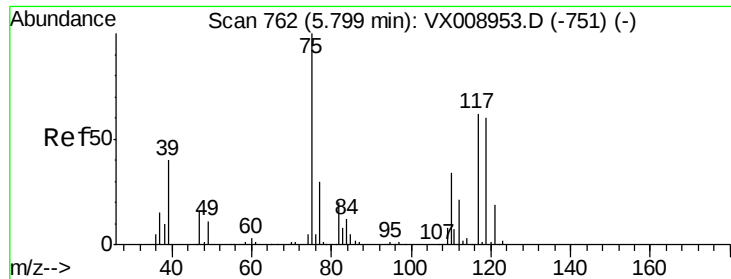


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

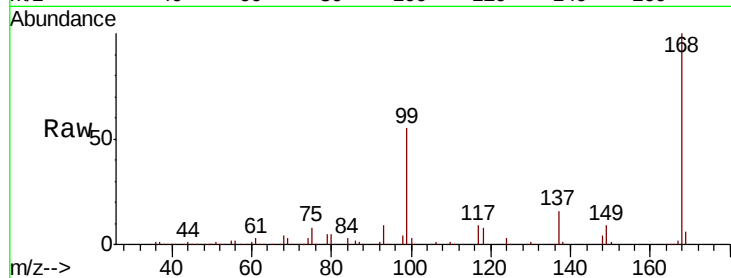




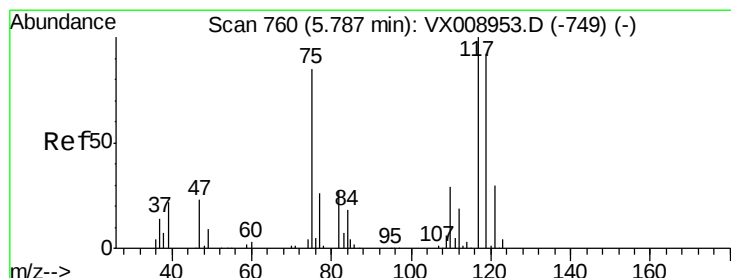
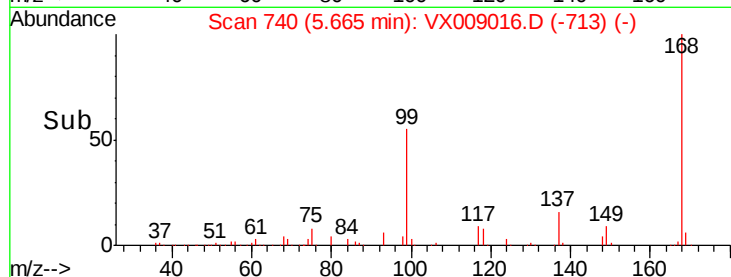
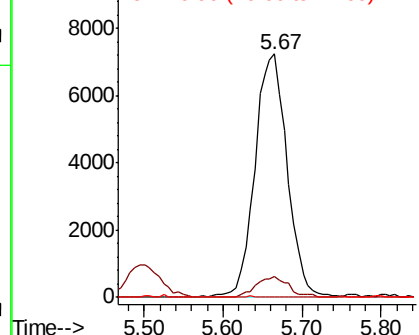
#36
 1,1-Dichloropropene
 Concen: 4.823 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009016.D
 Acq: 17 Apr 2019 15:47

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB11-190415

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.9	50.7#
77	0.0	25.0	37.4#

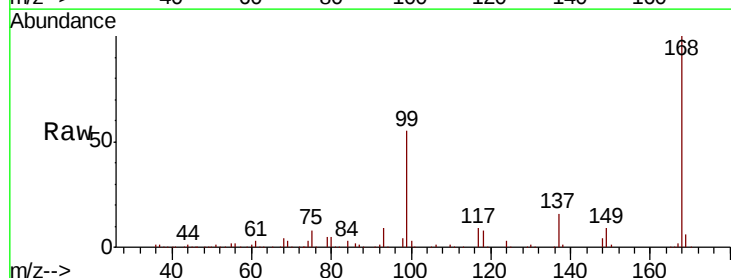


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

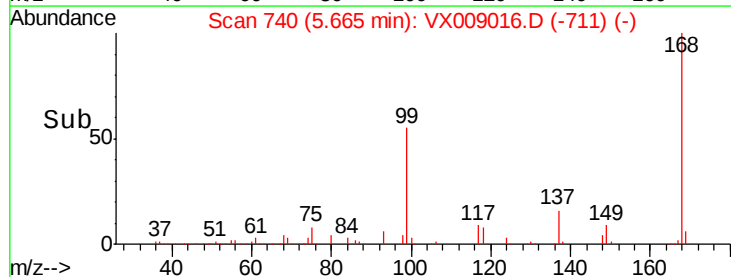
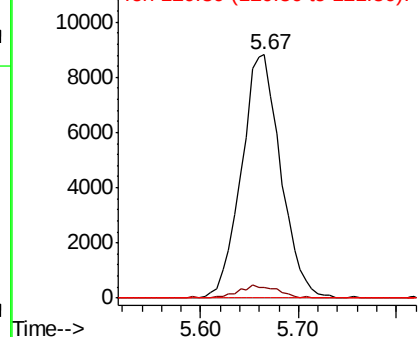


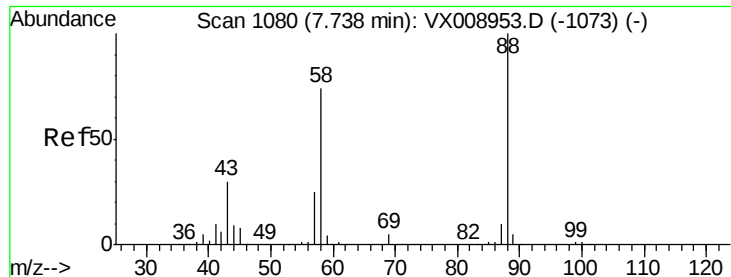
#38
 Carbon Tetrachloride
 Concen: 6.802 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX009016.D
 Acq: 17 Apr 2019 15:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	73.8	110.8#
121	0.0	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





#49

1,4-Dioxane

Concen: 0.257 ug/l

RT: 7.58 min Scan# 1054

Delta R.T. -0.16 min

Lab File: VX009016.D

Acq: 17 Apr 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB11-190415

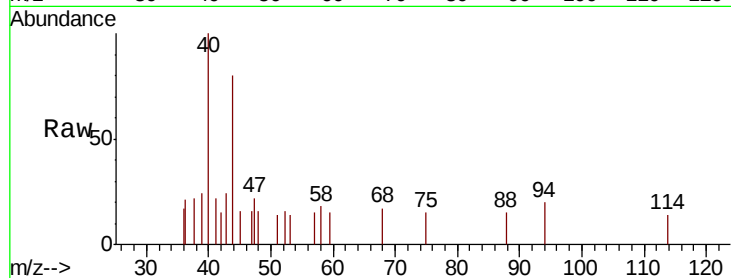
Tot Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 571.4 29.3 43.9#

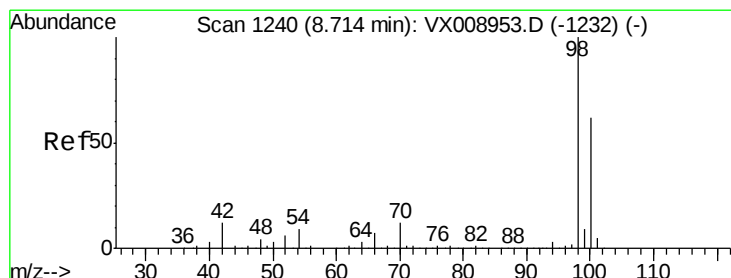
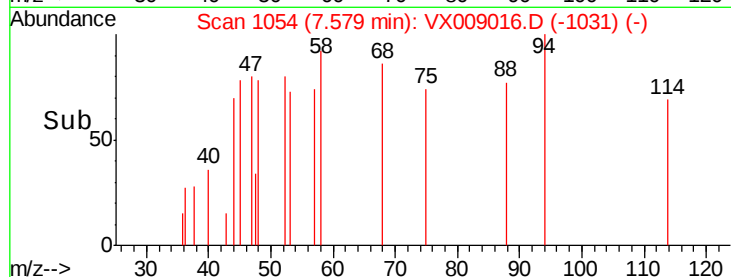
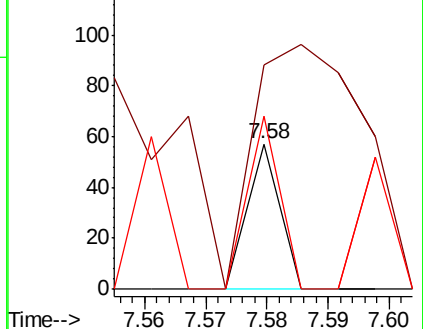
58 119.0 62.6 93.8#



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: 48.386 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009016.D

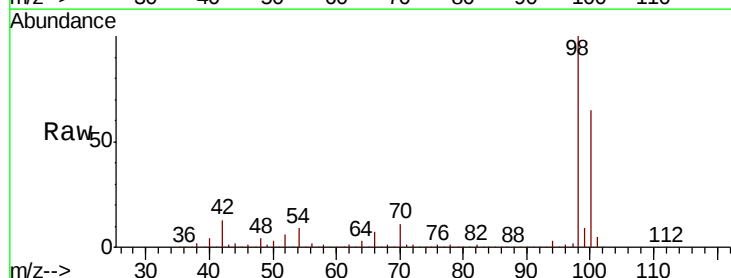
Acq: 17 Apr 2019 15:47

Tgt Ion: 98 Resp: 510074

Ion Ratio Lower Upper

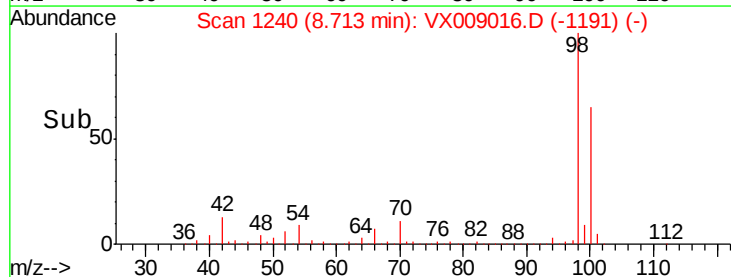
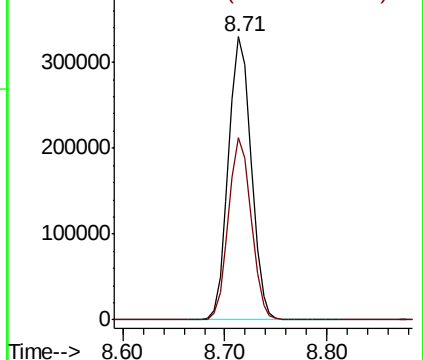
98 100

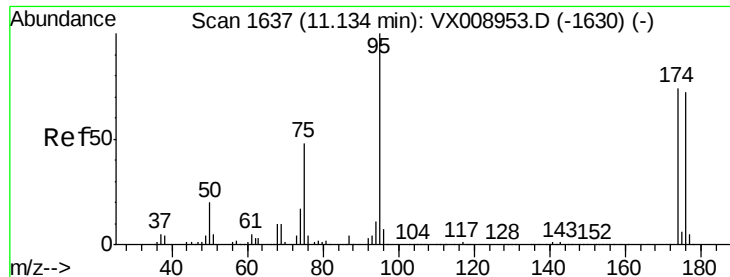
100 64.2 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.229 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009016.D

Acq: 17 Apr 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB11-190415

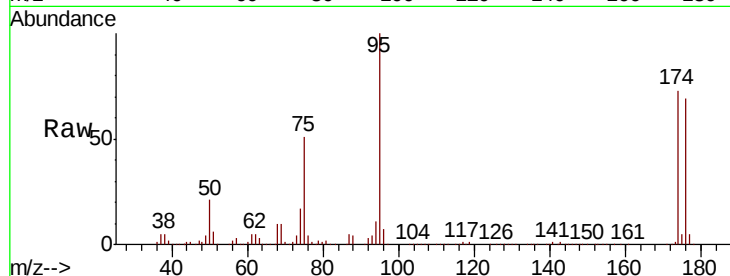
Tot Ion: 95 Resp: 168308

Ion Ratio Lower Upper

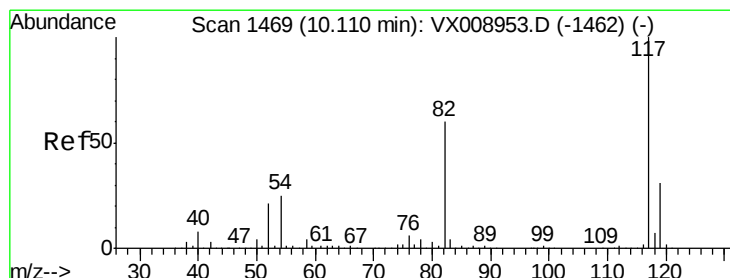
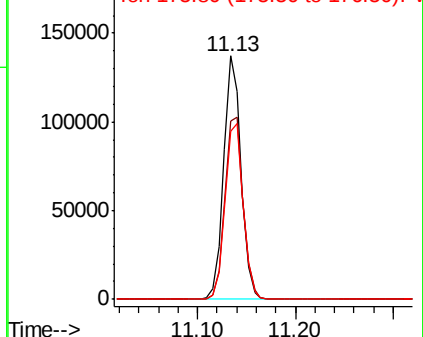
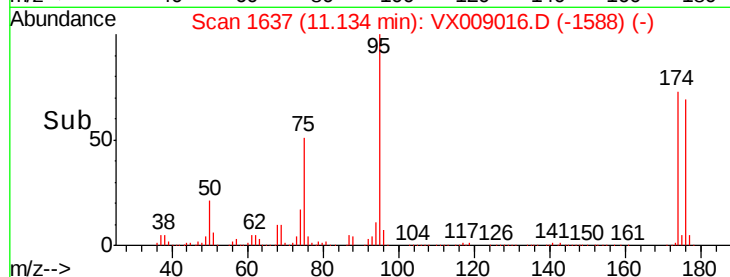
95 100

174 79.1 0.0 159.6

176 75.9 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX009016.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009016.D

Acq: 17 Apr 2019 15:47

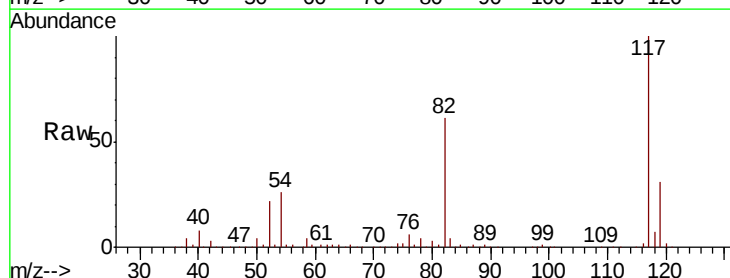
Tgt Ion: 117 Resp: 354142

Ion Ratio Lower Upper

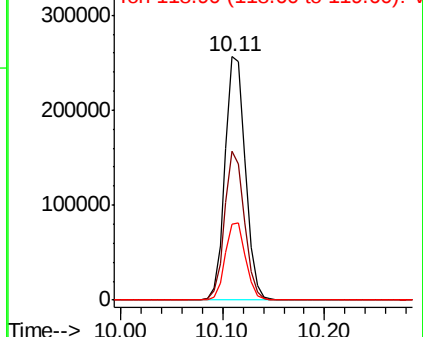
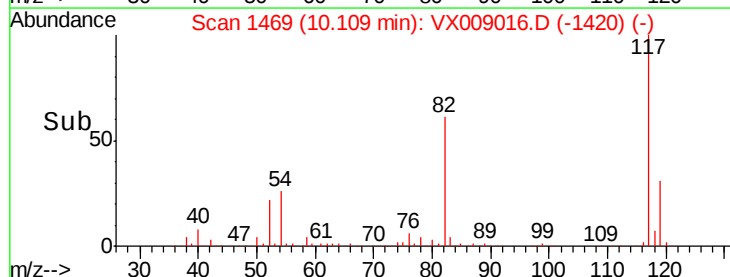
117 100

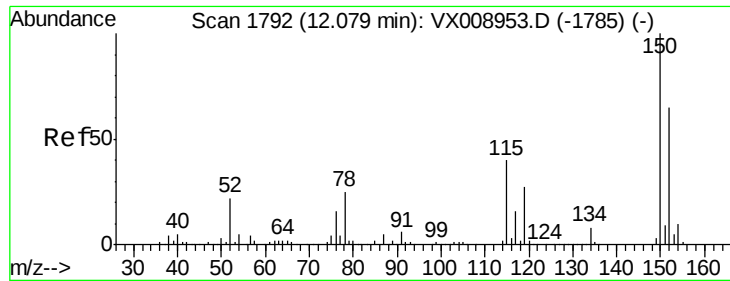
82 61.2 48.2 72.4

119 31.4 25.0 37.6



Abundance Ion 116.90 (116.60 to 117.60): VX009016.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009016.D

Acq: 17 Apr 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB11-190415

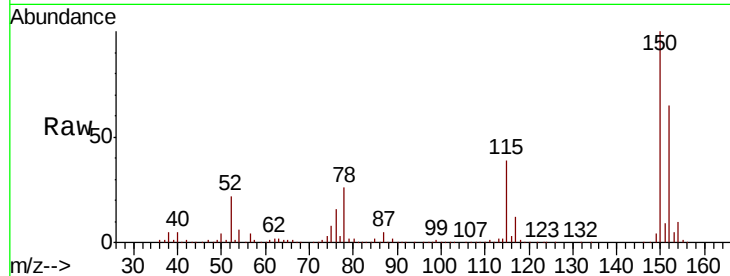
Tot Ion:152 Resp: 145639

Ion Ratio Lower Upper

152 100

115 60.7 41.4 124.2

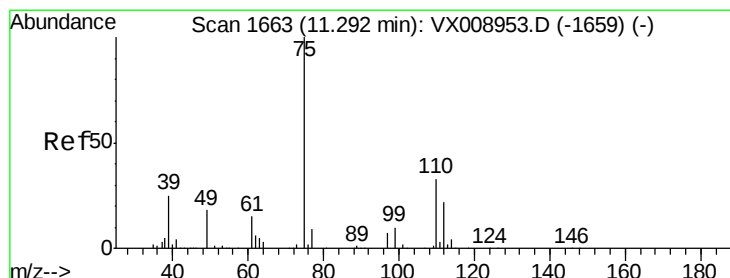
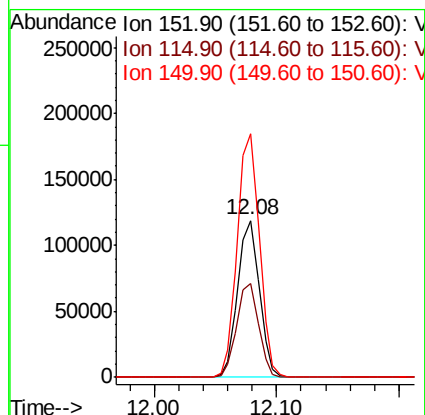
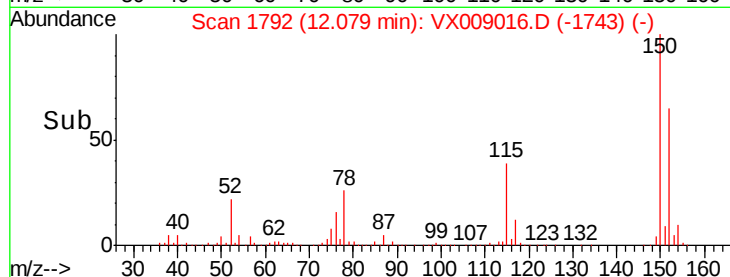
150 158.1 0.0 349.8



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: 24.067 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009016.D

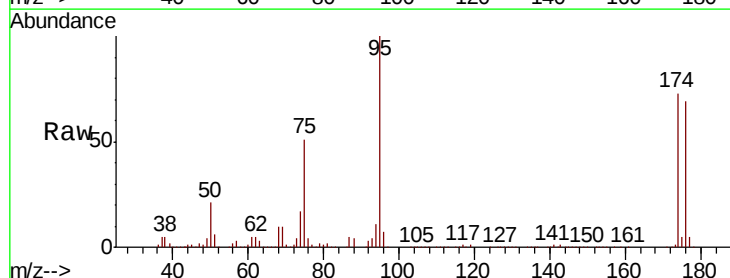
Acq: 17 Apr 2019 15:47

Tgt Ion: 75 Resp: 85589

Ion Ratio Lower Upper

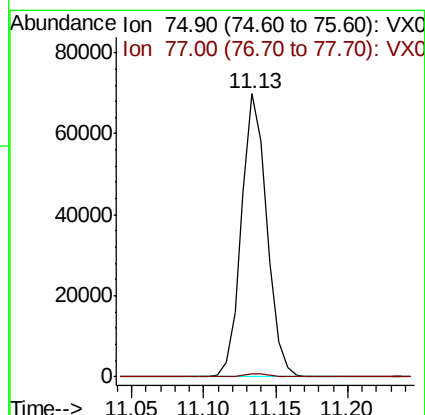
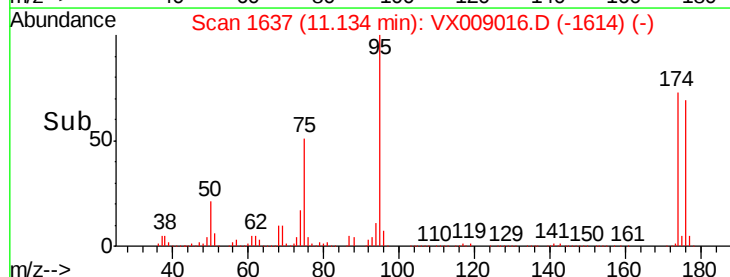
75 100

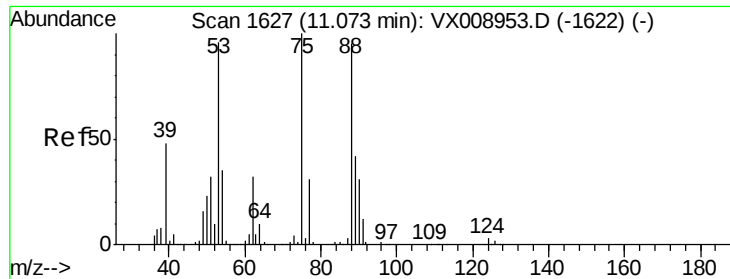
77 1.3 22.7 68.0#



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: 61.788 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009016.D

Acq: 17 Apr 2019 15:47

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB11-190415

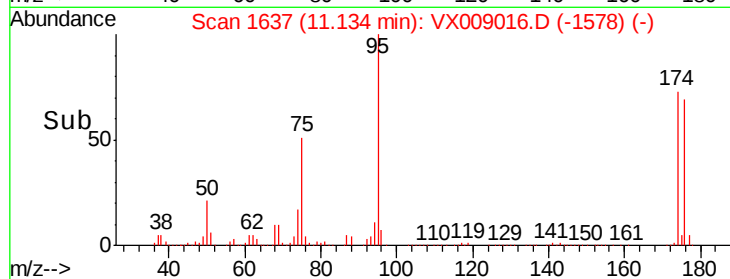
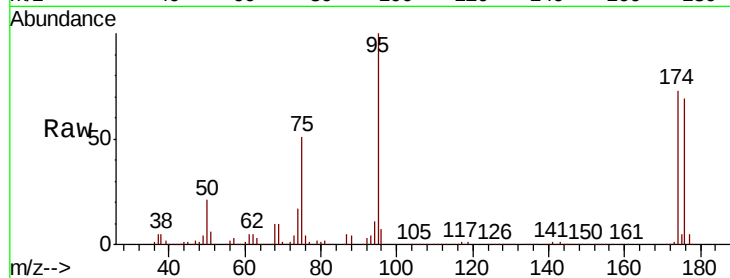
Tot Ion: 75 Resp: 85589

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#



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

