

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081318\
 Data File : VX004008.D
 Acq On : 13 Aug 2018 18:47
 Operator : JC/MD
 Sample : J4442-20
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SP-1-2

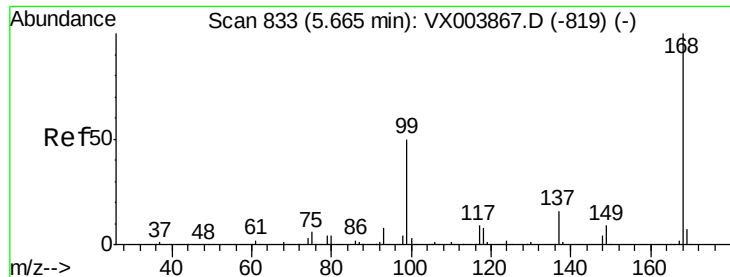
Quant Time: Aug 14 03:10:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 13 01:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	286436	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	474588	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	431107	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	240495	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	204305	53.81	ug/l	0.00
Spiked Amount			Recovery	=	107.62%	
35) Dibromofluoromethane	5.50	113	176041	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
50) Toluene-d8	8.72	98	658074	47.07	ug/l	0.00
Spiked Amount			Recovery	=	94.14%	
62) 4-Bromofluorobenzene	11.14	95	228209	50.44	ug/l	0.00
Spiked Amount			Recovery	=	100.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	706	0.28	ug/l #	65
6) Chloroethane	1.73	64	3852	1.53	ug/l #	47
11) Tert butyl alcohol	3.01	59	467	0.51	ug/l #	73
13) Acrolein	2.28	56	138	0.27	ug/l	85
16) Acetone	2.44	43	15345	6.79	ug/l	93
18) Methyl Acetate	2.77	43	6413	1.30	ug/l	95
20) Methylene Chloride	2.86	84	286668	52.34	ug/l	98
25) 2-Butanone	4.70	43	2852	0.84	ug/l #	84
29) Tetrahydrofuran	5.15	42	1580	0.91	ug/l #	83
30) Chloroform	5.22	83	2636	0.43	ug/l	87
31) Cyclohexane	5.58	56	1435	0.26	ug/l	86
36) 1,1-Dichloropropene	5.66	75	18879	3.55	ug/l #	41
38) Carbon Tetrachloride	5.67	117	25917	5.12	ug/l #	14
39) Methylcyclohexane	7.46	83	1625	0.26	ug/l #	86
43) Isopropyl Acetate	6.46	43	148020	16.82	ug/l	99
51) 4-Methyl-2-Pentanone	8.62	43	2383	0.33	ug/l #	48
59) 2-Hexanone	9.55	43	9721	1.78	ug/l #	57
68) m/p-Xylenes	10.36	106	4870	0.68	ug/l	88
74) N-amyl acetate	6.46	43	148020	16.00	ug/l #	99
76) 1,2,3-Trichloropropane	11.14	75	111697	21.03	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	111697	64.08	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	6032	0.41	ug/l	98
95) Naphthalene	13.83	128	86203	4.81	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX004008.D

Acq: 13 Aug 2018 18:47

Instrument :

MSVOA_X

ClientSampleId :

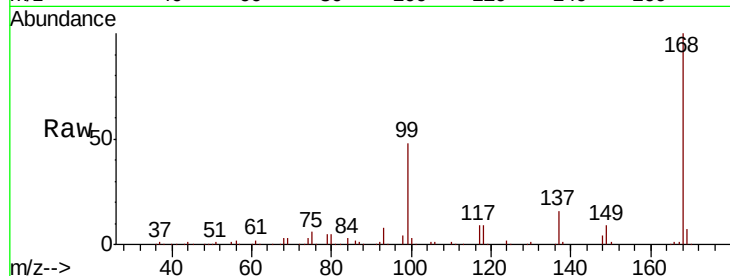
SP-1-2

Tot Ion:168 Resp: 286436

Ion Ratio Lower Upper

168 100

99 48.3 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

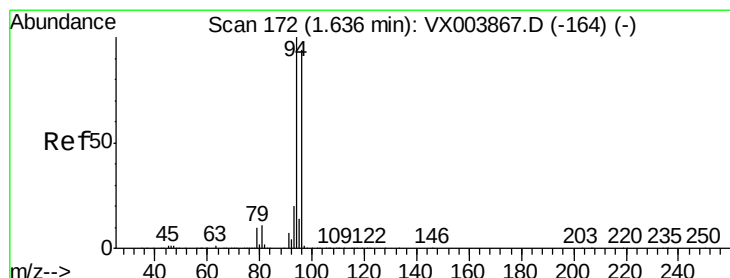
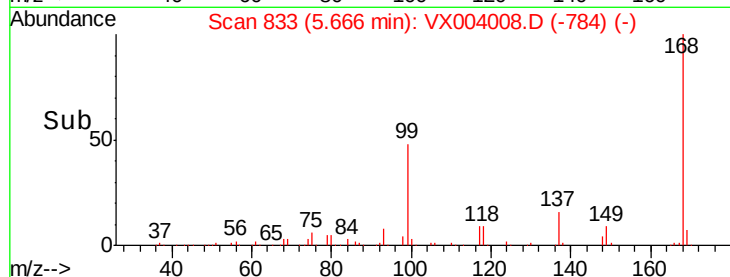
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.28 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004008.D

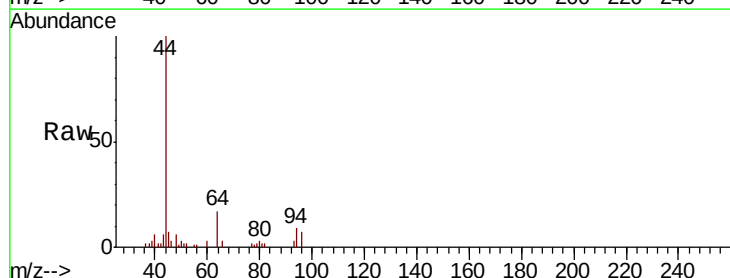
Acq: 13 Aug 2018 18:47

Tgt Ion: 94 Resp: 706

Ion Ratio Lower Upper

94 100

96 60.4 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

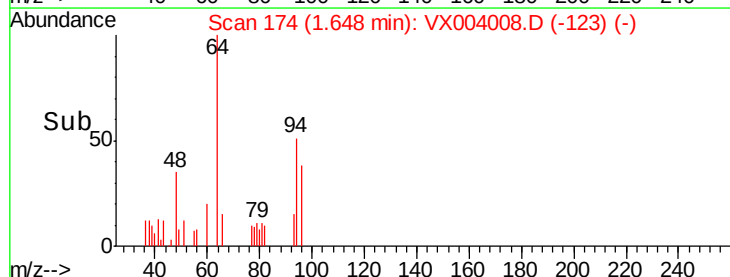
300

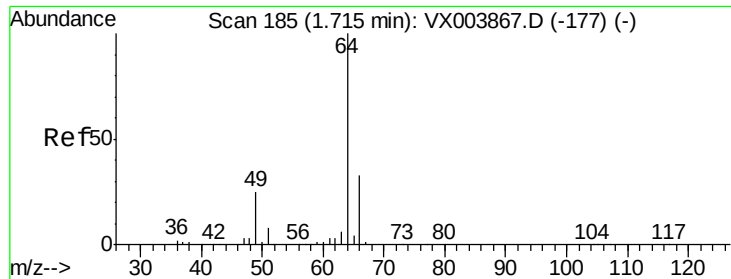
200

100

0

Time-->





#6

Chloroethane

Concen: 1.53 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX004008.D

Acq: 13 Aug 2018 18:47

Instrument :

MSVOA_X

ClientSampleId :

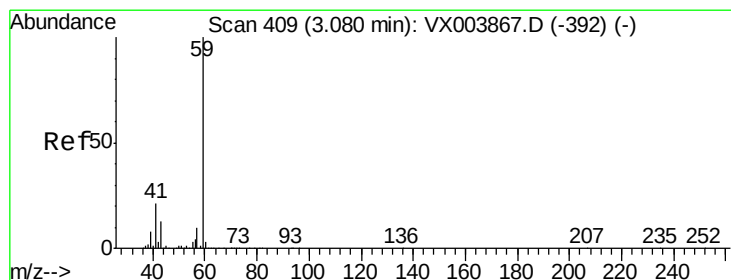
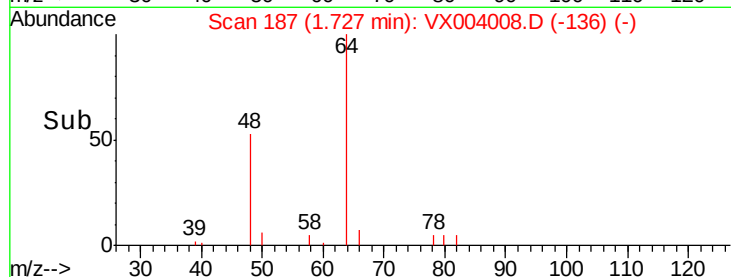
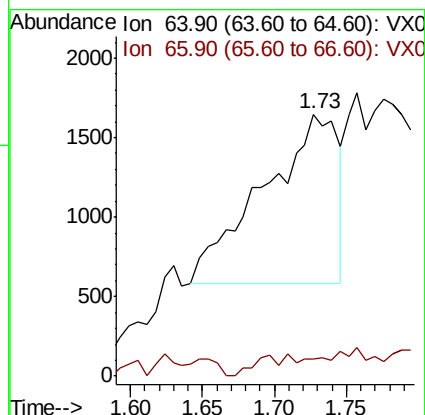
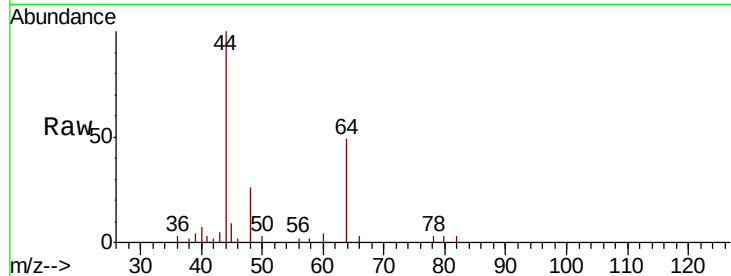
SP-1-2

Tot Ion: 64 Resp: 3852

Ion Ratio Lower Upper

64 100

66 3.0 26.5 39.7#



#11

Tert butyl alcohol

Concen: 0.51 ug/l

RT: 3.01 min Scan# 398

Delta R.T. -0.07 min

Lab File: VX004008.D

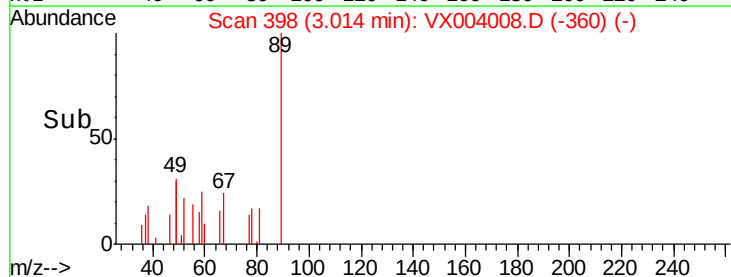
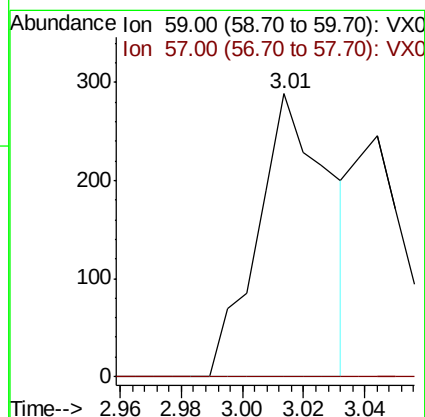
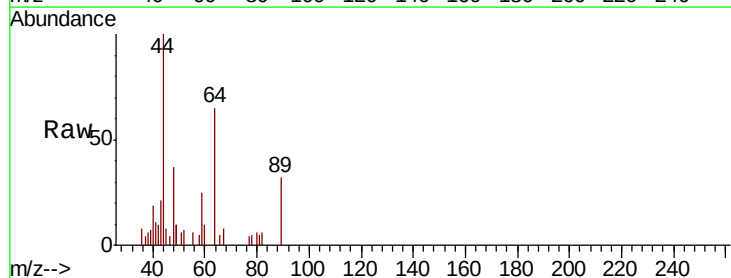
Acq: 13 Aug 2018 18:47

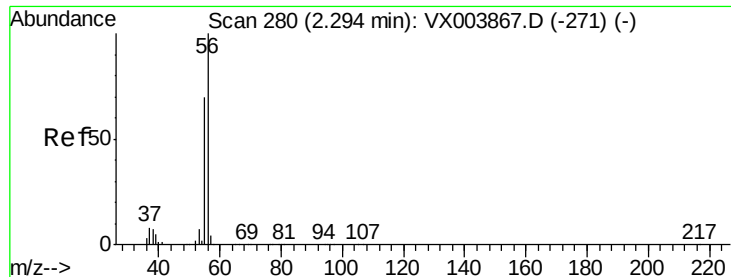
Tgt Ion: 59 Resp: 467

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#

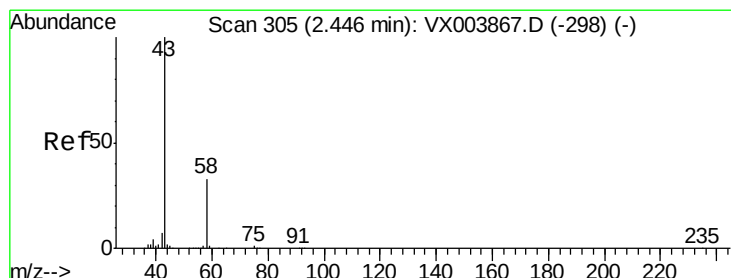
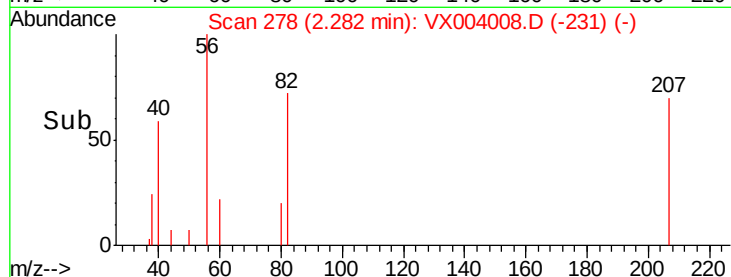
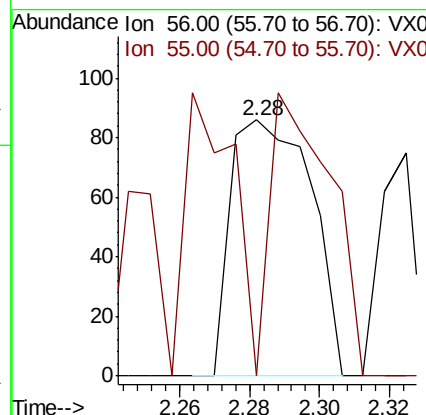
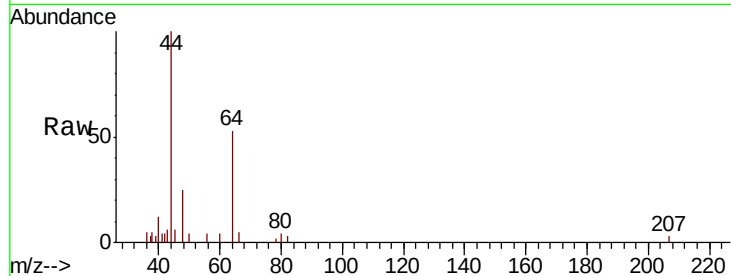




#13
Acrolein
Concen: 0.27 ug/l
RT: 2.28 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX004008.D
Acq: 13 Aug 2018 18:47

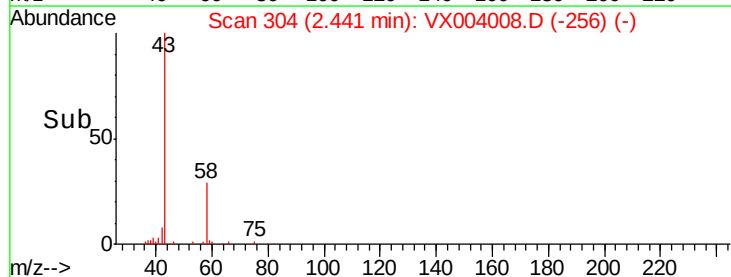
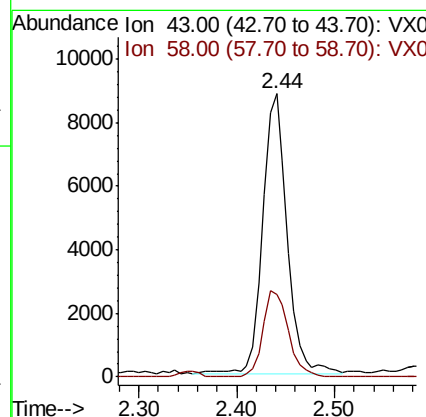
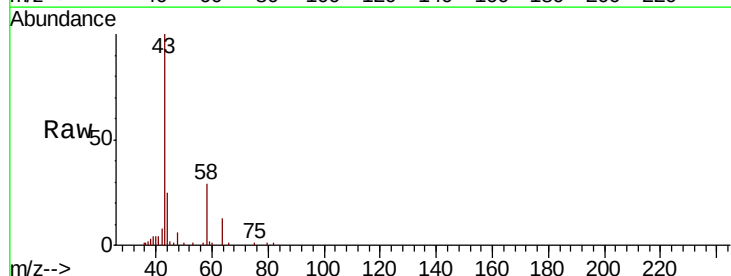
Instrument :
MSVOA_X
ClientSampled :
SP-1-2

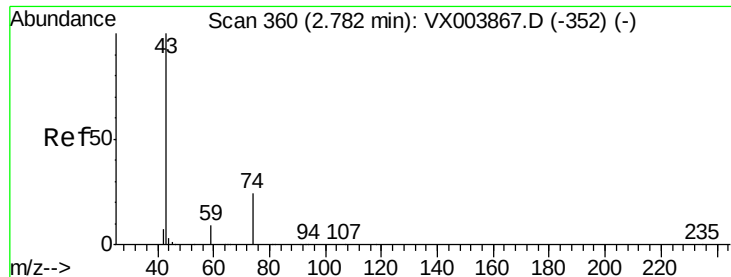
Tot Ion: 56 Resp: 138
Ion Ratio Lower Upper
56 100
55 82.6 56.1 84.1



#16
Acetone
Concen: 6.79 ug/l
RT: 2.44 min Scan# 304
Delta R.T. -0.01 min
Lab File: VX004008.D
Acq: 13 Aug 2018 18:47

Tgt Ion: 43 Resp: 15345
Ion Ratio Lower Upper
43 100
58 29.3 26.4 39.6

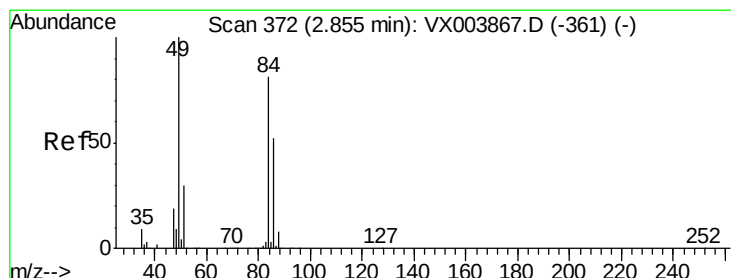
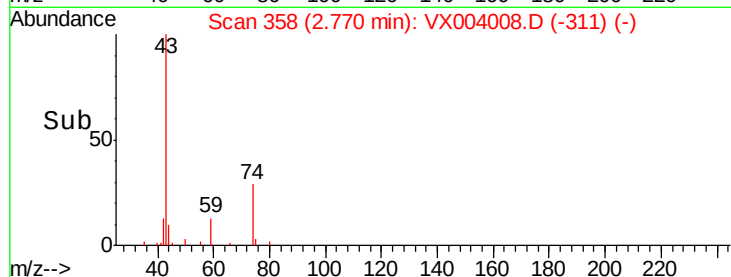
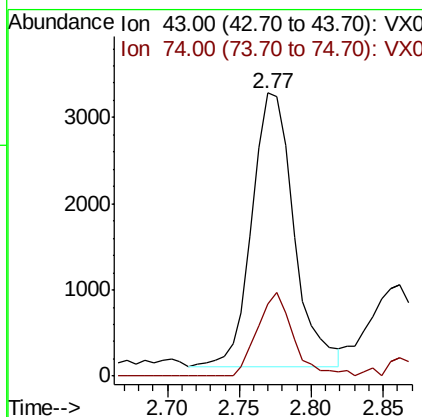
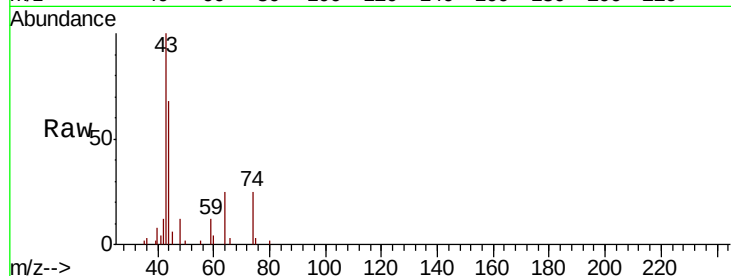




#18
Methvl Acetate
Concen: 1.30 ug/l
RT: 2.77 min Scan# 358
Delta R.T. -0.01 min
Lab File: VX004008.D
Acq: 13 Aug 2018 18:47

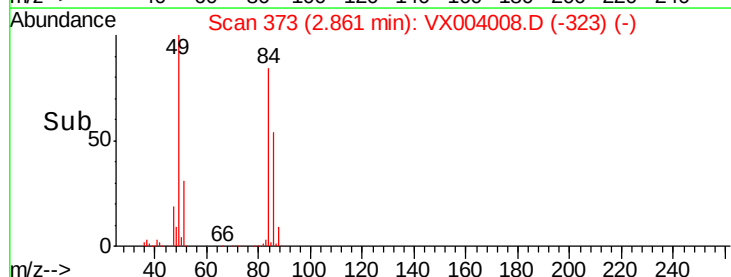
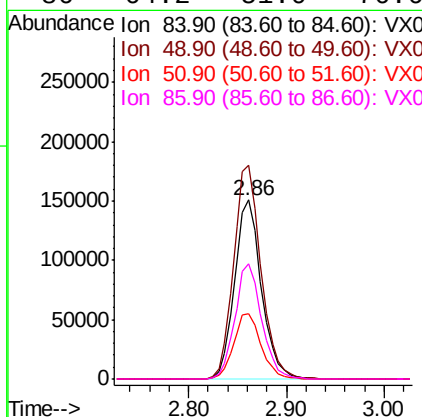
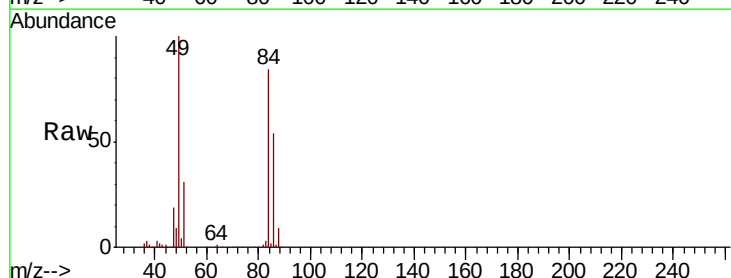
Instrument :
MSVOA_X
ClientSampleId :
SP-1-2

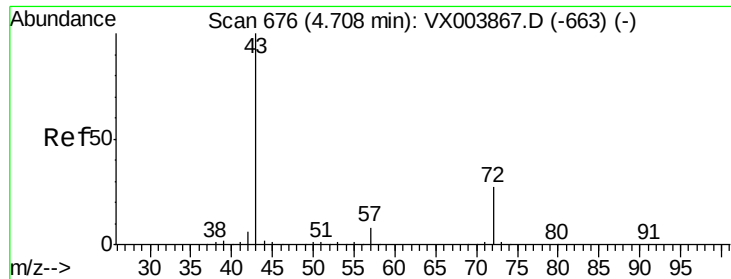
Tot Ion: 43 Resp: 6413
Ion Ratio Lower Upper
43 100
74 26.1 18.9 28.3



#20
Methylene Chloride
Concen: 52.34 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX004008.D
Acq: 13 Aug 2018 18:47

Tgt Ion: 84 Resp: 286668
Ion Ratio Lower Upper
84 100
49 119.3 98.9 148.3
51 36.5 29.9 44.9
86 64.2 51.0 76.6





#25

2-Butanone

Concen: 0.84 ug/l

RT: 4.70 min Scan# 675

Delta R.T. -0.01 min

Lab File: VX004008.D

Acq: 13 Aug 2018 18:47

Instrument :

MSVOA_X

ClientSampled :

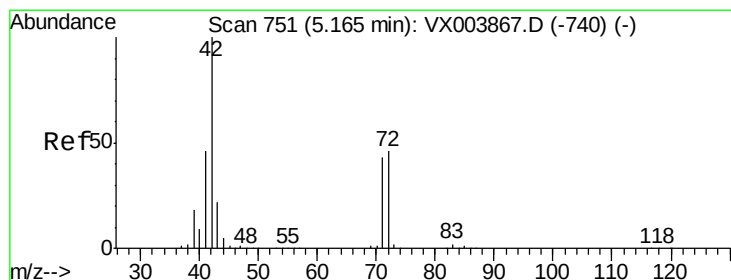
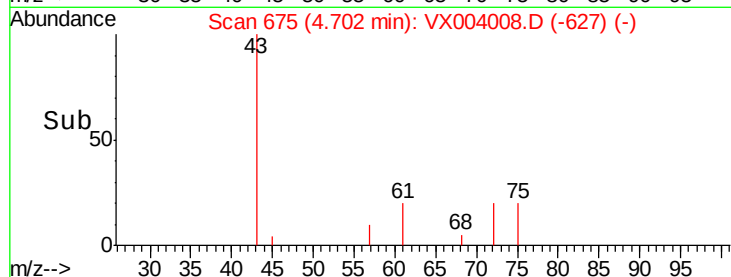
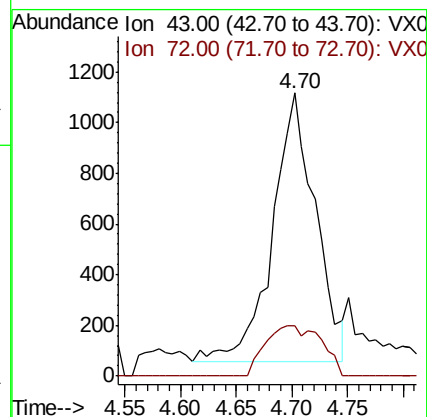
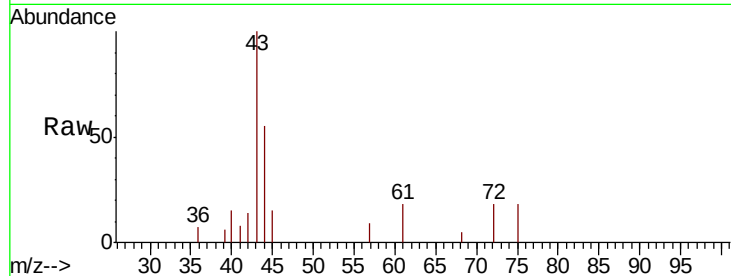
SP-1-2

Tot Ion: 43 Resp: 2852

Ion Ratio Lower Upper

43 100

72 18.5 21.4 32.0#



#29

Tetrahydrofuran

Concen: 0.91 ug/l

RT: 5.15 min Scan# 749

Delta R.T. -0.01 min

Lab File: VX004008.D

Acq: 13 Aug 2018 18:47

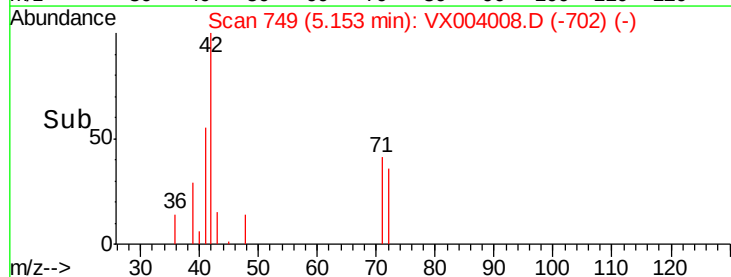
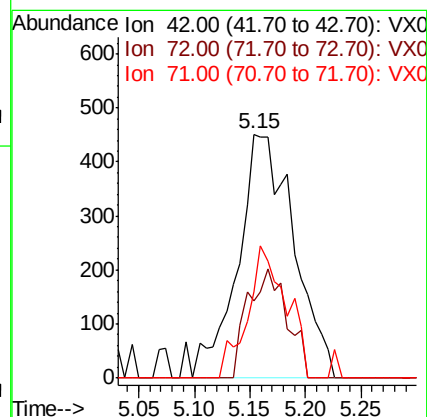
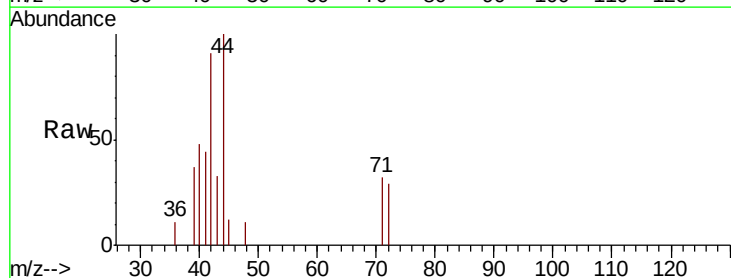
Tgt Ion: 42 Resp: 1580

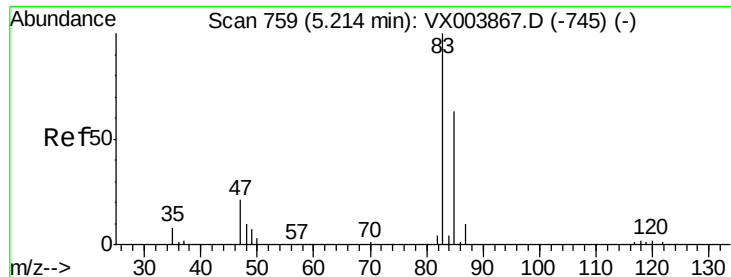
Ion Ratio Lower Upper

42 100

72 31.4 37.7 56.5#

71 37.4 35.0 52.6

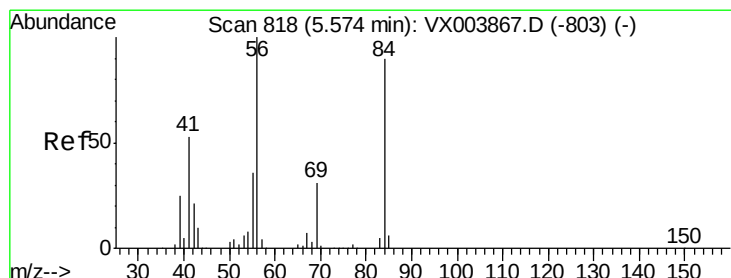
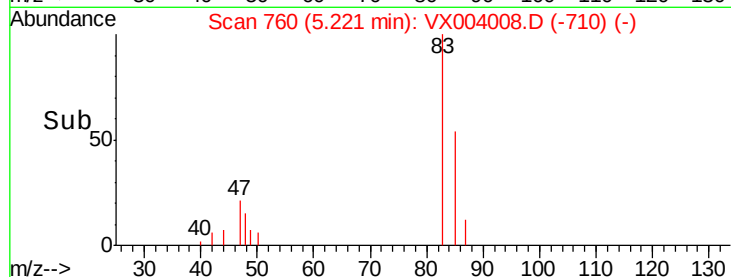
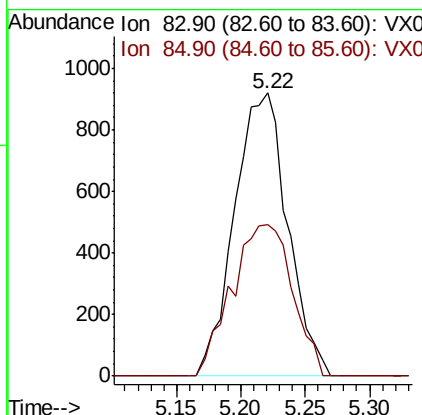
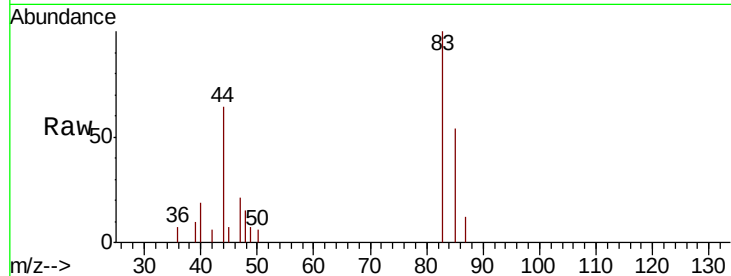




#30
Chloroform
Concen: 0.43 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.01 min
Lab File: VX004008.D
Acq: 13 Aug 2018 18:47

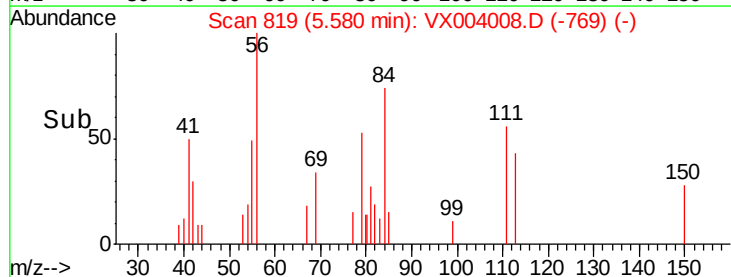
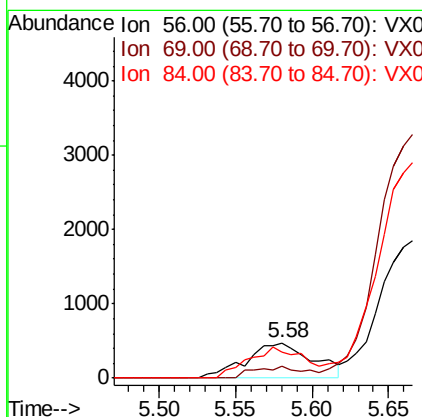
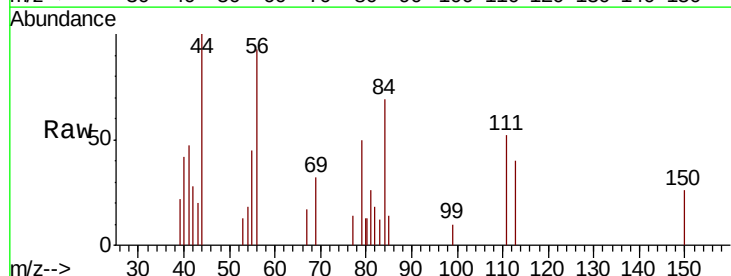
Instrument :
MSVOA_X
ClientSampled :
SP-1-2

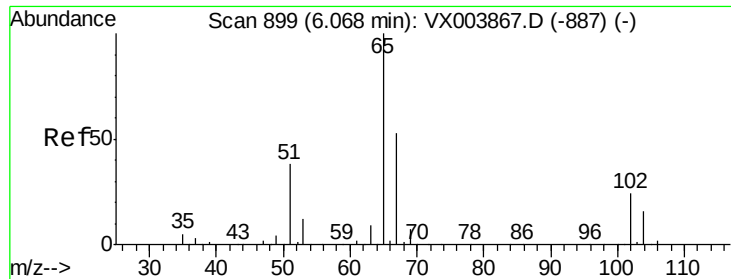
Tot Ion: 83 Resp: 2636
Ion Ratio Lower Upper
83 100
85 53.6 50.7 76.1



#31
Cyclohexane
Concen: 0.26 ug/l
RT: 5.58 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX004008.D
Acq: 13 Aug 2018 18:47

Tgt Ion: 56 Resp: 1435
Ion Ratio Lower Upper
56 100
69 34.0 24.9 37.3
84 73.6 71.7 107.5

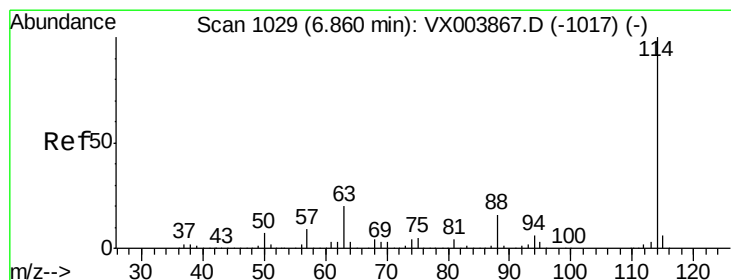
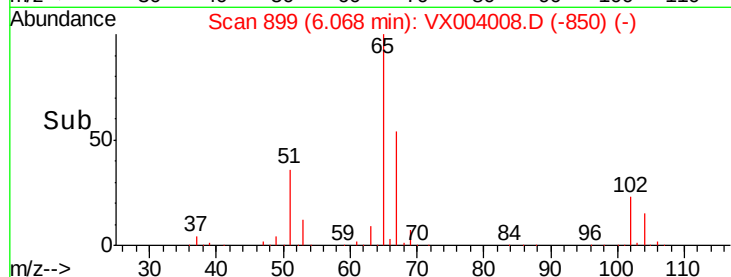
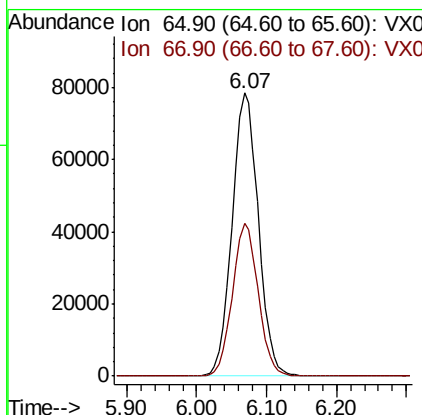
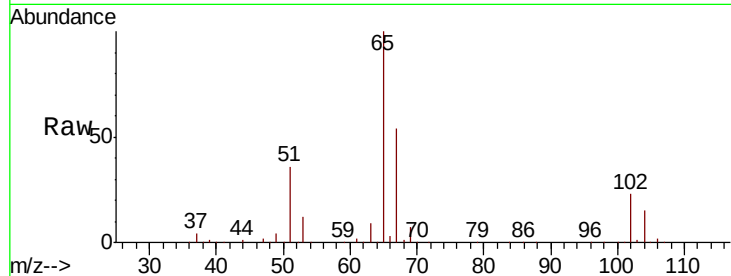




#33
 1,2-Dichloroethane-d4
 Concen: 53.81 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX004008.D
 Acq: 13 Aug 2018 18:47

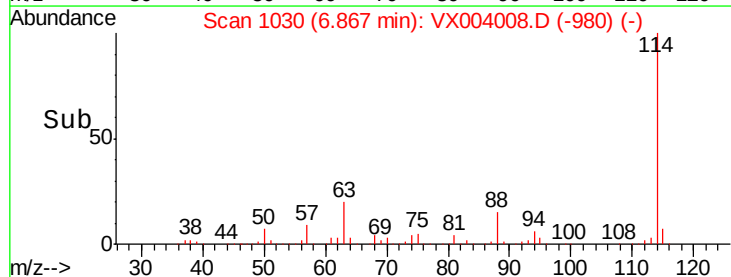
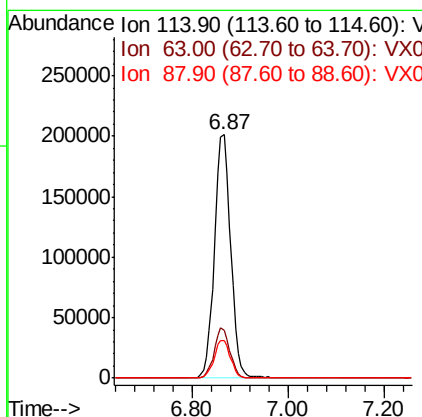
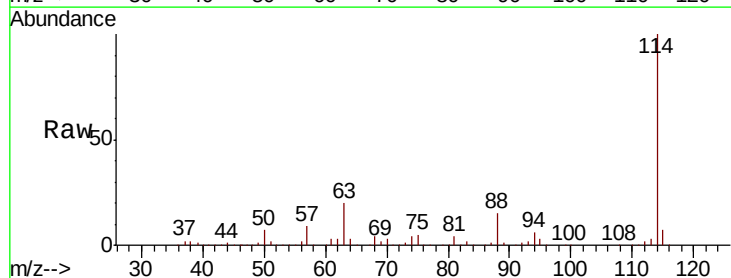
Instrument :
 MSVOA_X
 ClientSampleId :
 SP-1-2

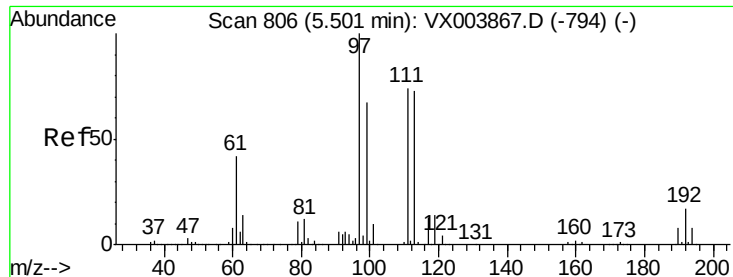
Tot Ion: 65 Resp: 204305
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VX004008.D
 Acq: 13 Aug 2018 18:47

Tgt Ion: 114 Resp: 474588
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.0
 88 15.2 0.0 32.0

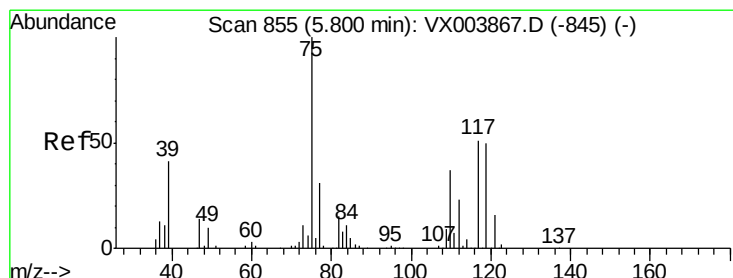
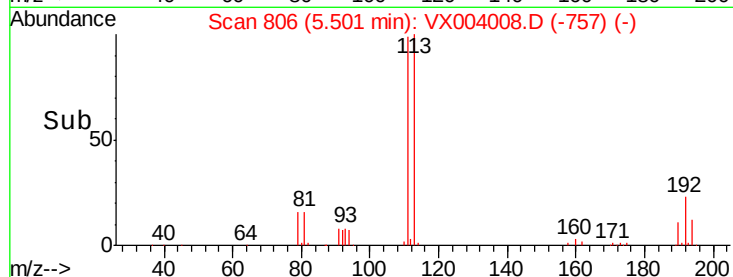
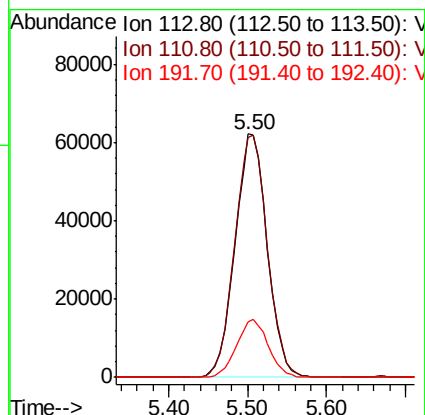
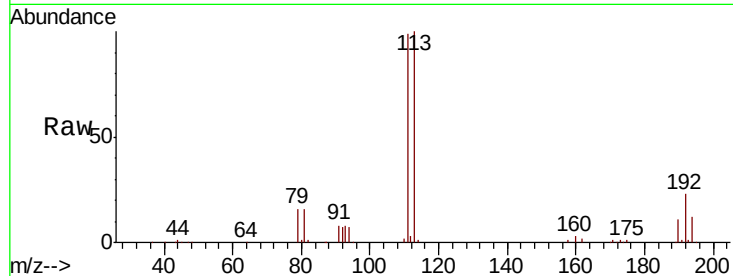




#35
 Dibromofluoromethane
 Concen: 48.96 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX004008.D
 Acq: 13 Aug 2018 18:47

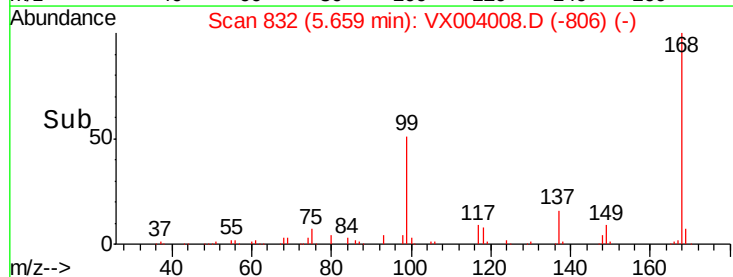
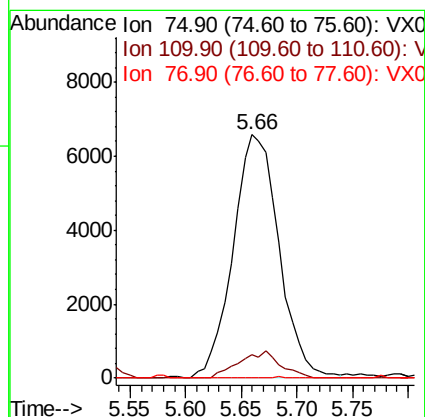
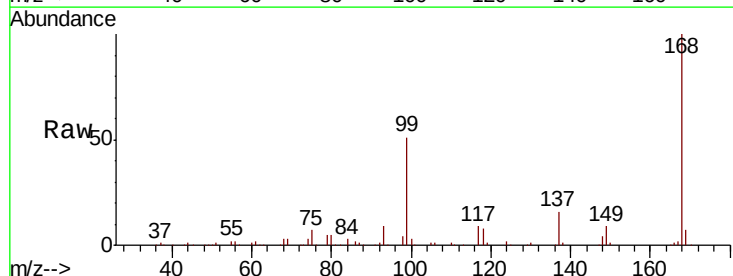
Instrument :
 MSVOA_X
 ClientSampleId :
 SP-1-2

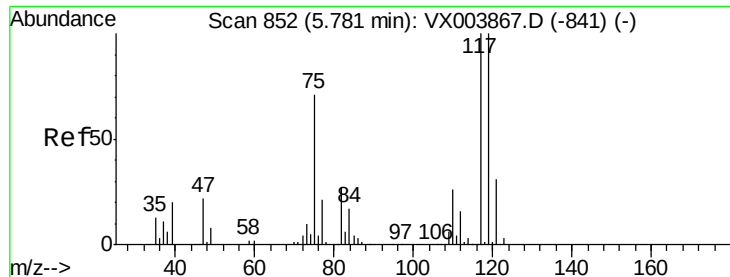
Tot Ion:113 Resp: 176041
 Ion Ratio Lower Upper
 113 100
 111 101.1 82.0 123.0
 192 23.5 19.0 28.4



#36
 1,1-Dichloropropene
 Concen: 3.55 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX004008.D
 Acq: 13 Aug 2018 18:47

Tgt Ion: 75 Resp: 18879
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.2 54.6#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.12 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004008.D

Acq: 13 Aug 2018 18:47

Instrument :

MSVOA_X

ClientSampled :

SP-1-2

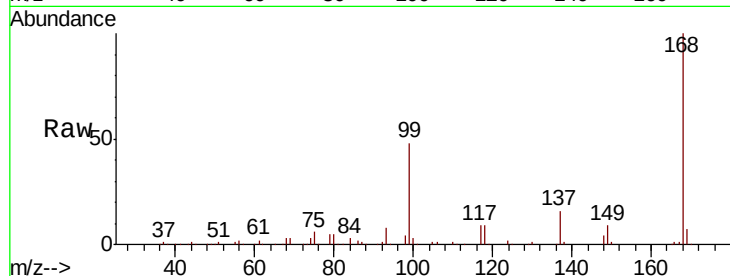
Tot Ion:117 Resp: 25917

Ion Ratio Lower Upper

117 100

119 4.3 79.5 119.3#

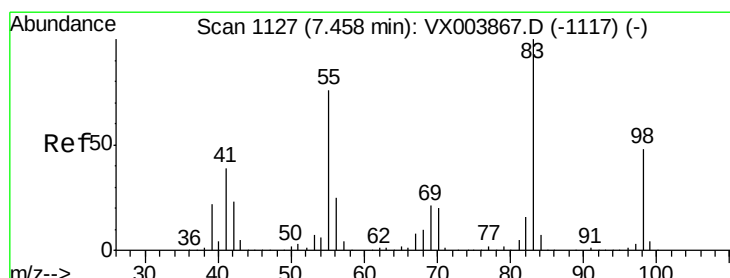
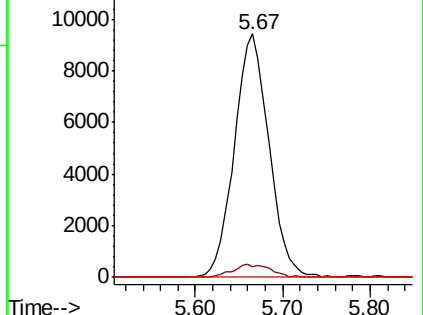
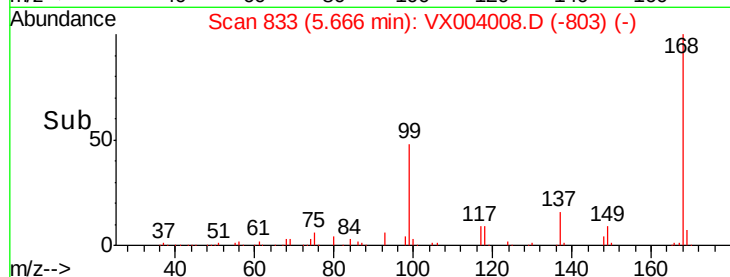
121 0.0 25.0 37.4#



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



#39

Methylcyclohexane

Concen: 0.26 ug/l

RT: 7.46 min Scan# 1127

Delta R.T. 0.00 min

Lab File: VX004008.D

Acq: 13 Aug 2018 18:47

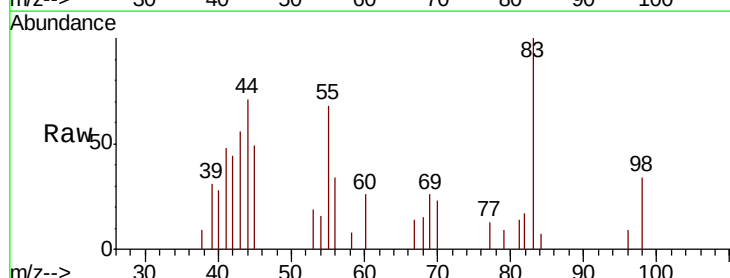
Tgt Ion: 83 Resp: 1625

Ion Ratio Lower Upper

83 100

55 67.9 61.0 91.6

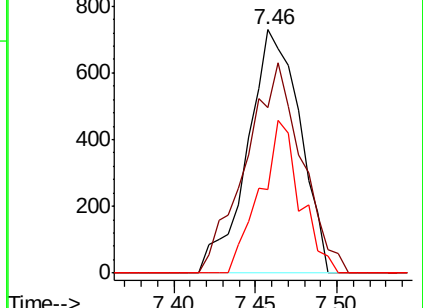
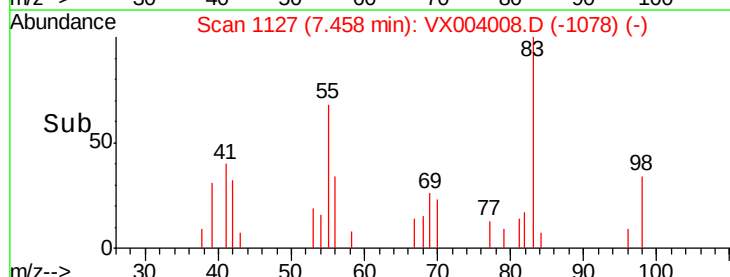
98 34.4 38.6 57.8#

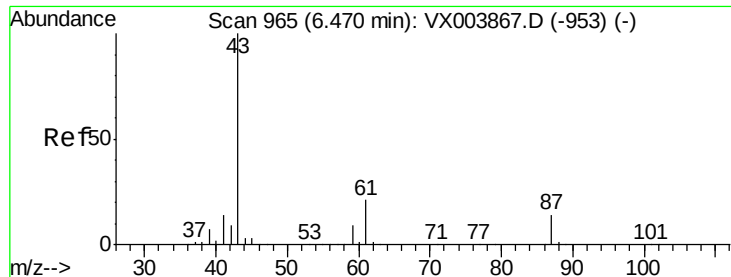


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#43

Isopropyl Acetate

Concen: 16.82 ug/l

RT: 6.46 min Scan# 964

Delta R.T. -0.01 min

Lab File: VX004008.D

Acq: 13 Aug 2018 18:47

Instrument :

MSVOA_X

ClientSampleId :

SP-1-2

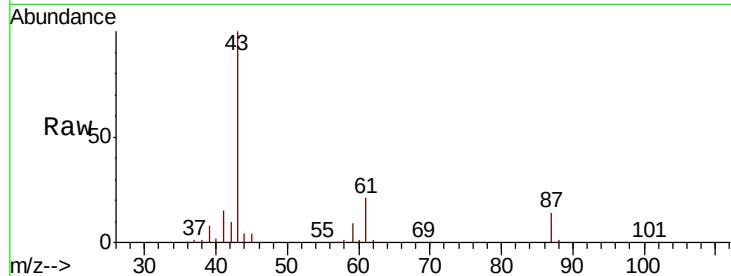
Tot Ion: 43 Resp: 148020

Ion Ratio Lower Upper

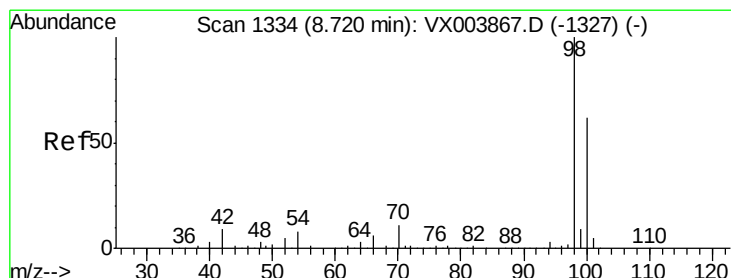
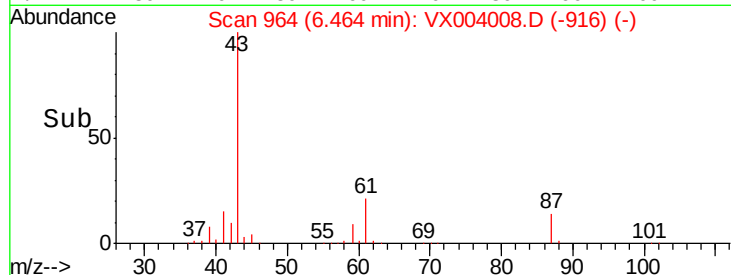
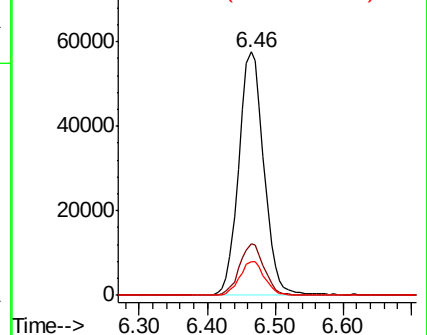
43 100

61 20.9 16.9 25.3

87 13.7 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 47.07 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX004008.D

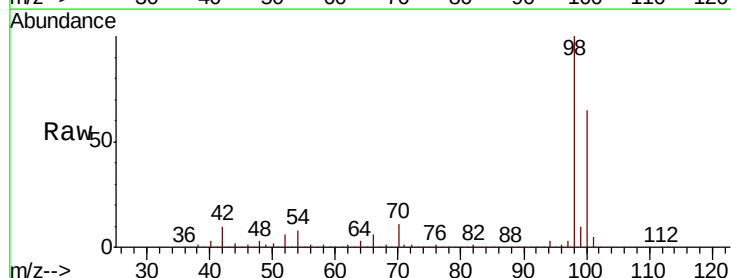
Acq: 13 Aug 2018 18:47

Tgt Ion: 98 Resp: 658074

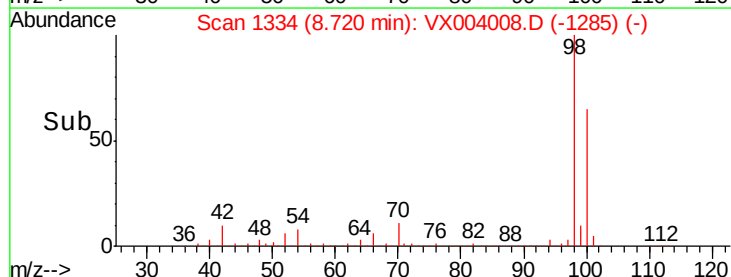
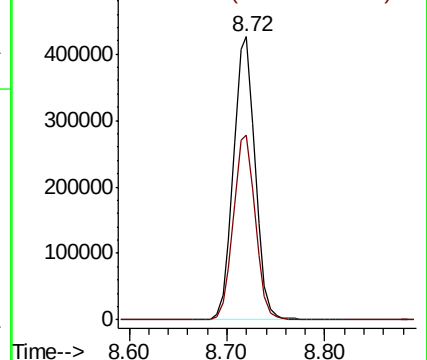
Ion Ratio Lower Upper

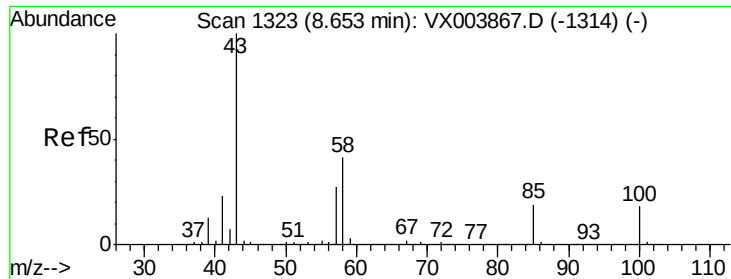
98 100

100 66.0 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.33 ug/l

RT: 8.62 min Scan# 1318

Delta R.T. -0.03 min

Lab File: VX004008.D

Acq: 13 Aug 2018 18:47

Instrument :

MSVOA_X

ClientSampled :

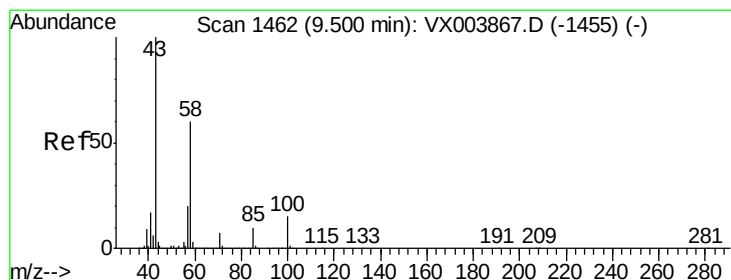
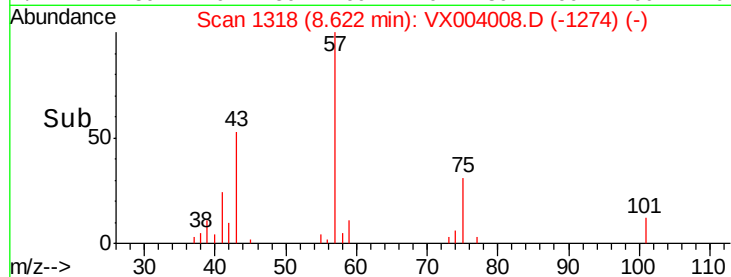
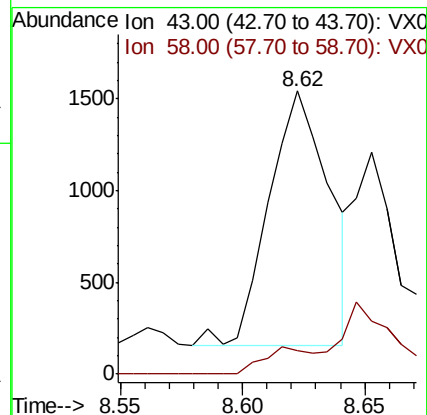
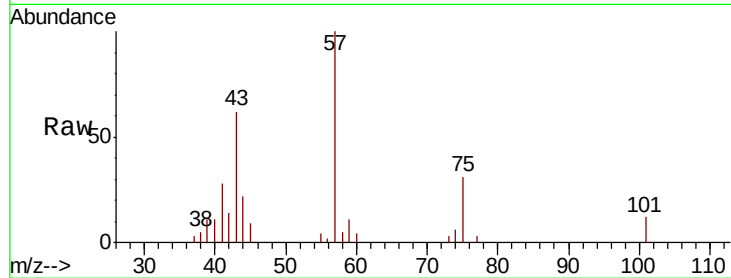
SP-1-2

Tot Ion: 43 Resp: 2383

Ion Ratio Lower Upper

43 100

58 8.4 33.0 49.6#



#59

2-Hexanone

Concen: 1.78 ug/l

RT: 9.55 min Scan# 1470

Delta R.T. 0.05 min

Lab File: VX004008.D

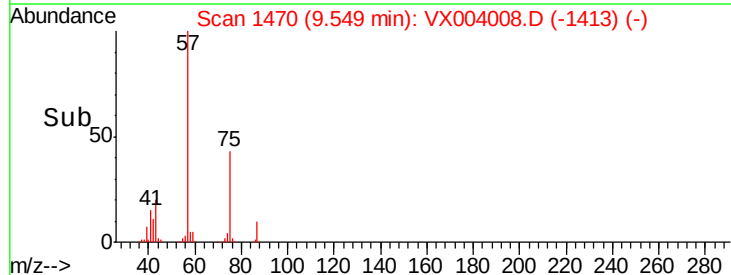
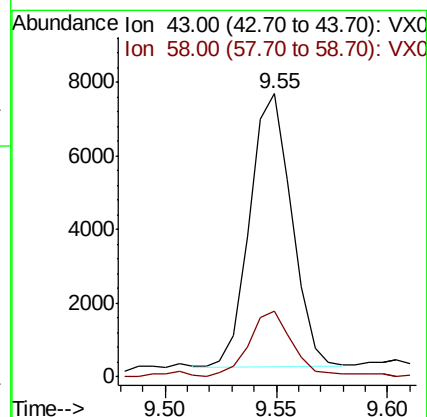
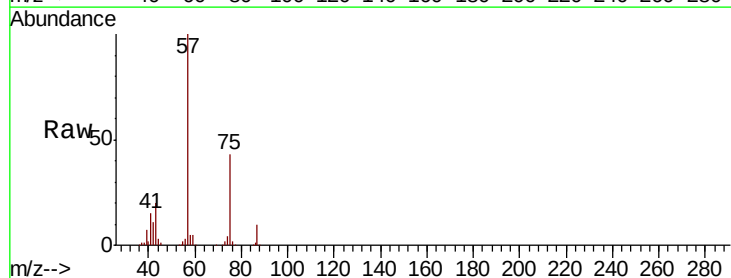
Acq: 13 Aug 2018 18:47

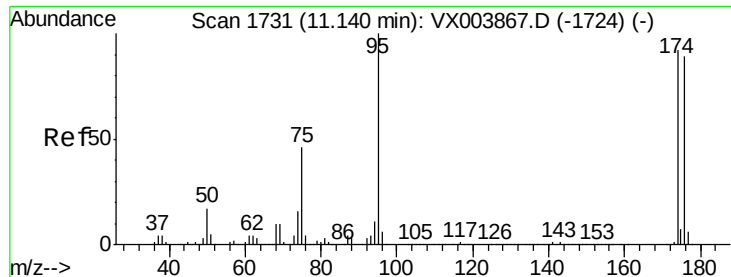
Tgt Ion: 43 Resp: 9721

Ion Ratio Lower Upper

43 100

58 26.3 29.0 87.0#

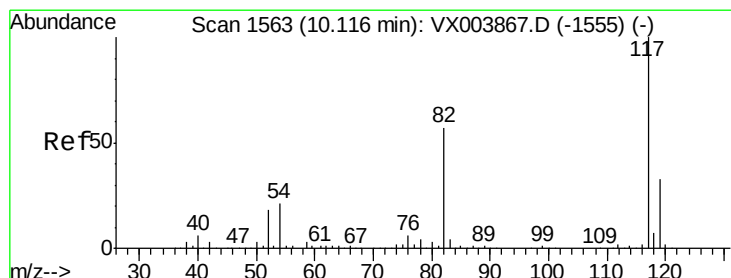
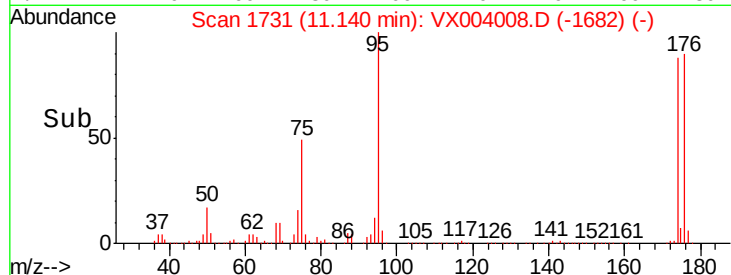
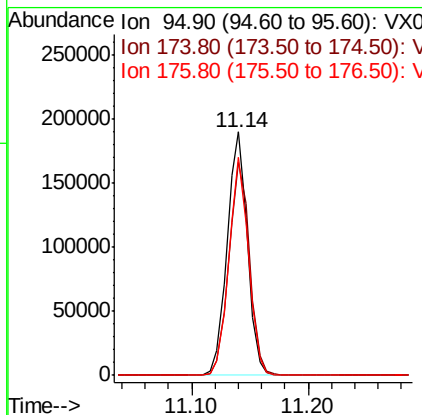
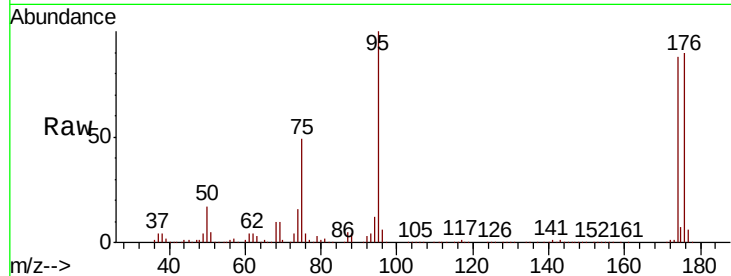




#62
4-Bromofluorobenzene
Concen: 50.44 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX004008.D
Acq: 13 Aug 2018 18:47

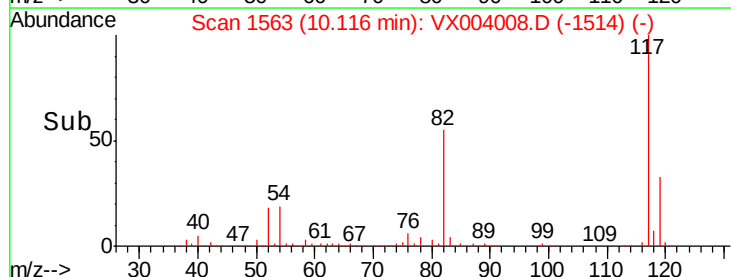
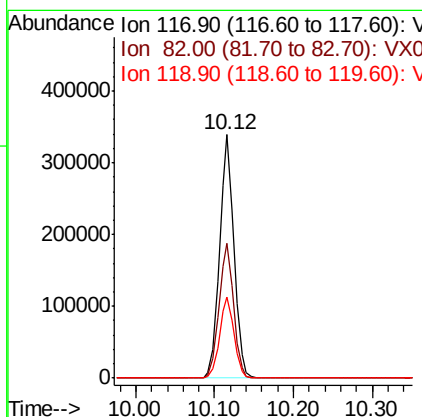
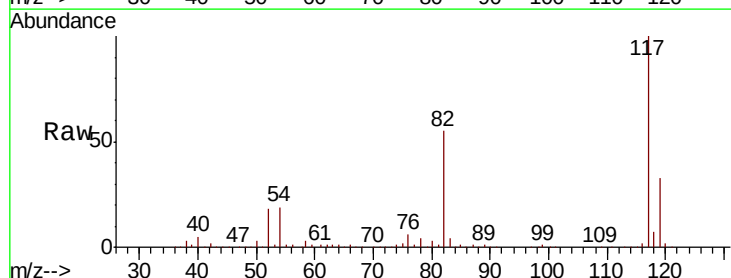
Instrument :
MSVOA_X
ClientSampled :
SP-1-2

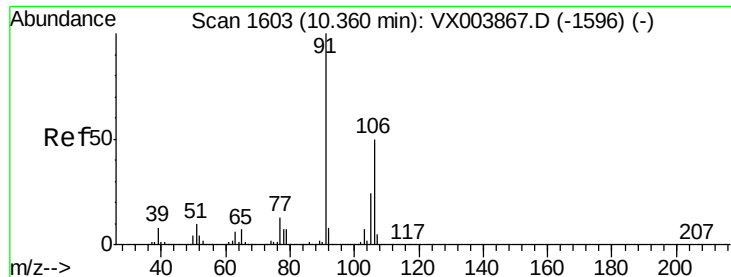
Tot Ion	95	Resp	228209
Ion Ratio	Lower	Upper	
95	100		
174	90.5	0.0	182.8
176	87.4	0.0	179.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX004008.D
Acq: 13 Aug 2018 18:47

Tgt Ion	117	Resp	431107
Ion Ratio	Lower	Upper	
117	100		
82	55.4	45.4	68.0
119	33.3	26.6	40.0





#68

m/p-Xylenes

Concen: 0.68 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VX004008.D

Acq: 13 Aug 2018 18:47

Instrument :

MSVOA_X

ClientSampleId :

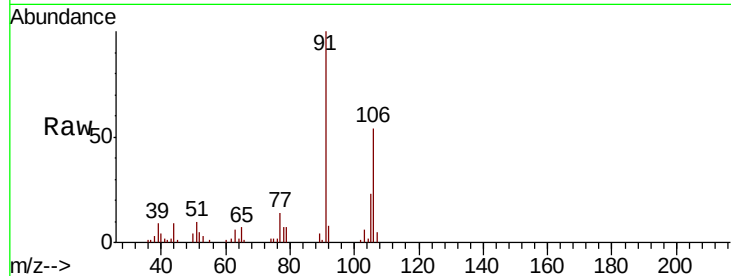
SP-1-2

Tot Ion:106 Resp: 4870

Ion Ratio Lower Upper

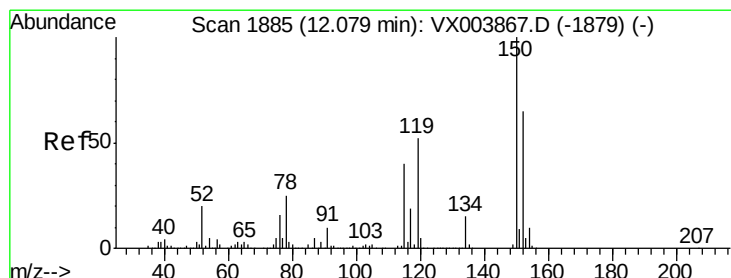
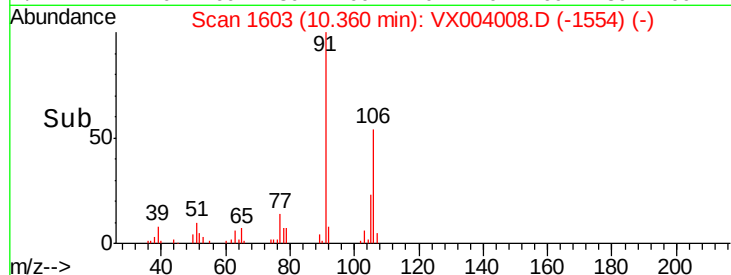
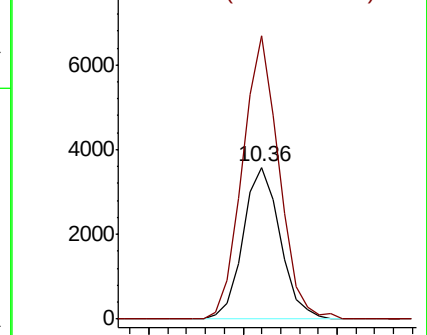
106 100

91 183.9 162.3 243.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX004008.D

Acq: 13 Aug 2018 18:47

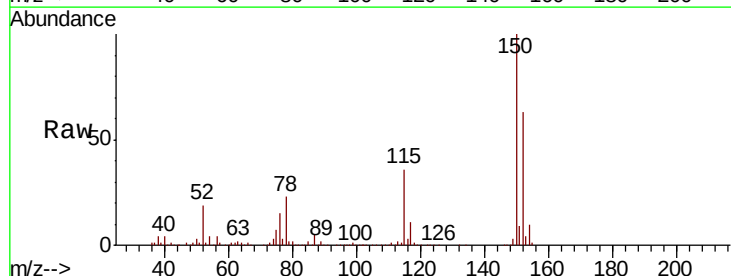
Tgt Ion:152 Resp: 240495

Ion Ratio Lower Upper

152 100

115 54.6 39.1 117.3

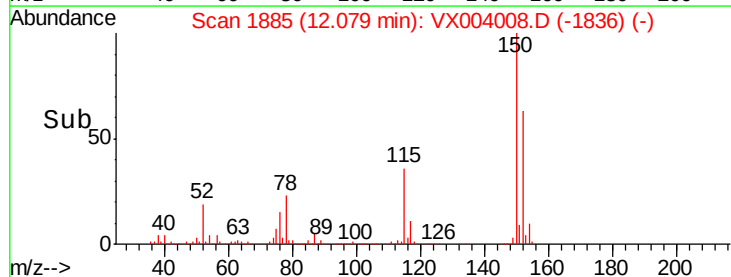
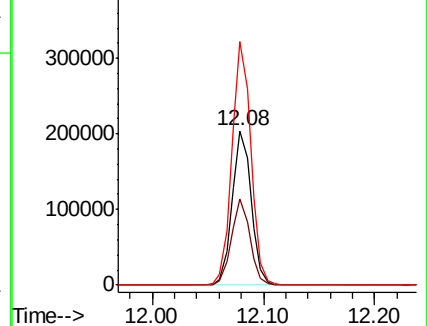
150 157.5 0.0 349.2

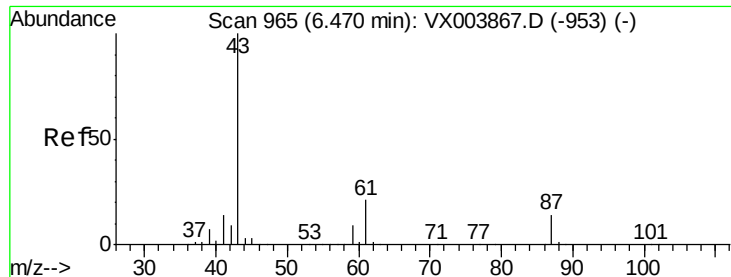


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 16.00 ug/l

RT: 6.46 min Scan# 964

Delta R.T. -0.01 min

Lab File: VX004008.D

Acq: 13 Aug 2018 18:47

Instrument :

MSVOA_X

ClientSampleId :

SP-1-2

Tot Ion: 43 Resp: 148020

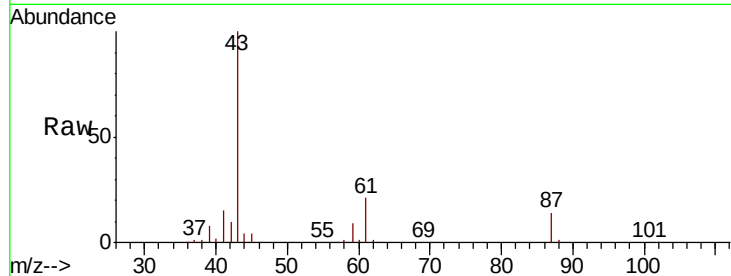
Ion Ratio Lower Upper

43 100

70 0.1 0.0 0.0#

55 0.3 0.1 0.1#

61 20.9 16.9 25.3

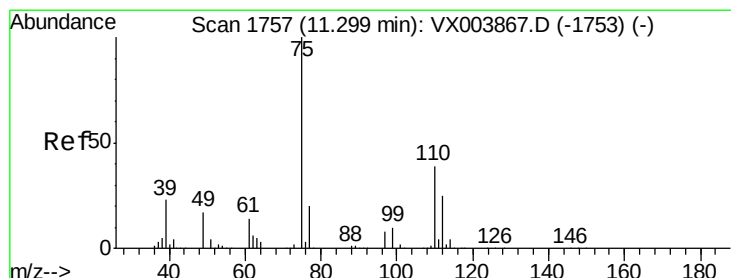
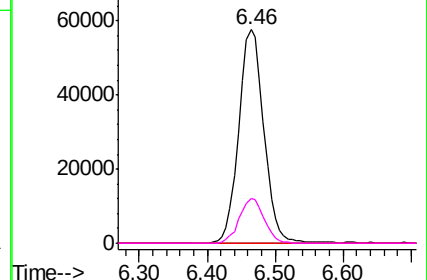
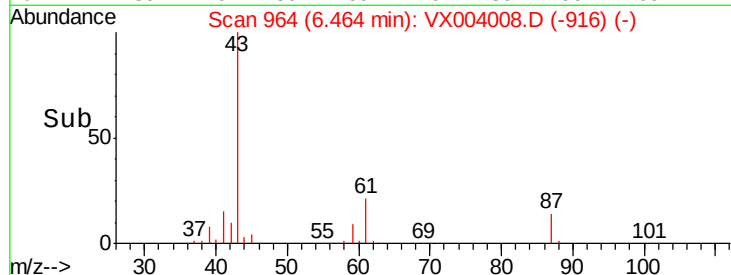


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 21.03 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004008.D

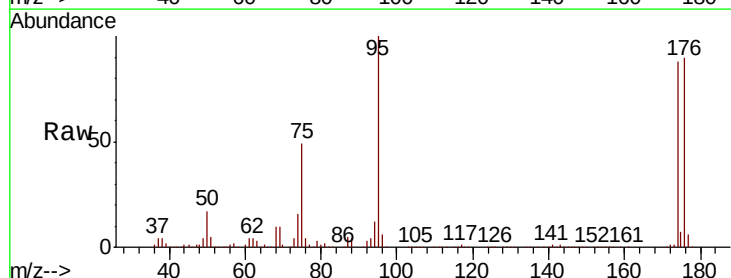
Acq: 13 Aug 2018 18:47

Tgt Ion: 75 Resp: 111697

Ion Ratio Lower Upper

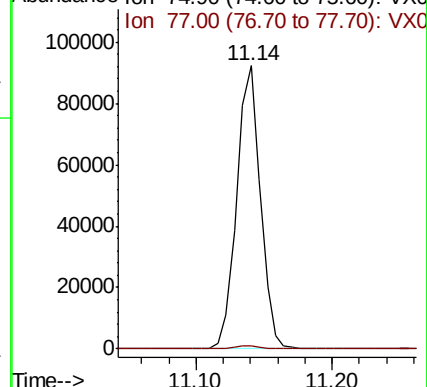
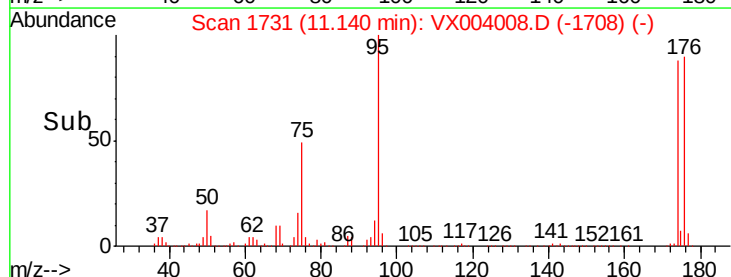
75 100

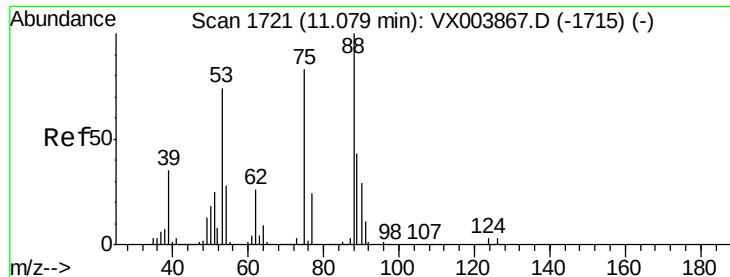
77 1.3 20.8 62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 64.08 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004008.D

Acq: 13 Aug 2018 18:47

Instrument :

MSVOA_X

ClientSampleId :

SP-1-2

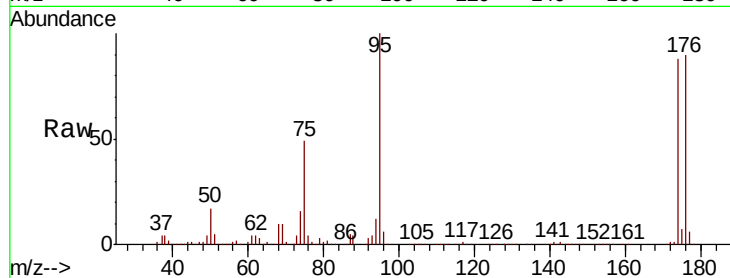
Tot Ion: 75 Resp: 111697

Ion Ratio Lower Upper

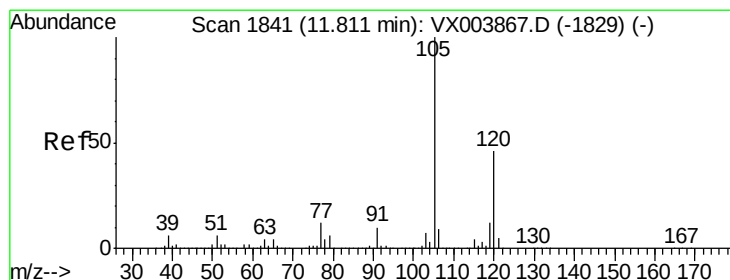
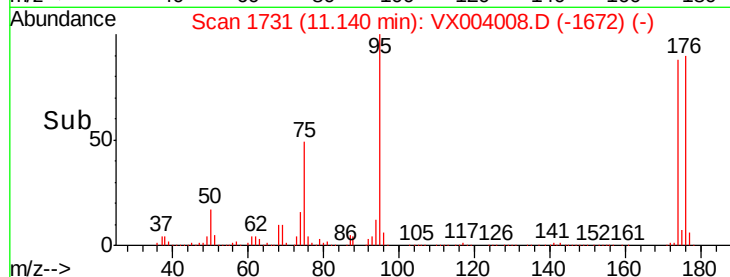
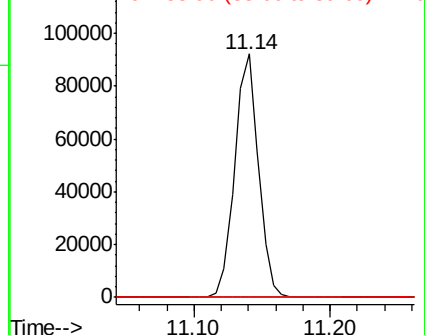
75 100

53 0.2 80.3 120.5#

89 0.0 37.8 56.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.41 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX004008.D

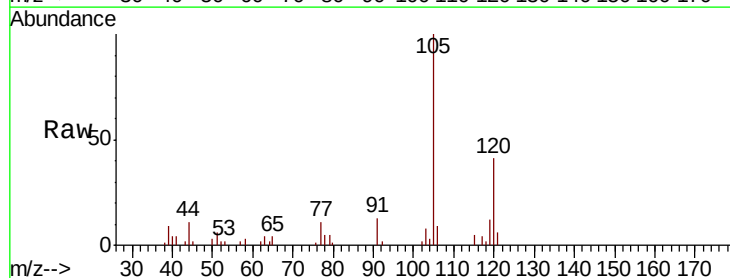
Acq: 13 Aug 2018 18:47

Tgt Ion:105 Resp: 6032

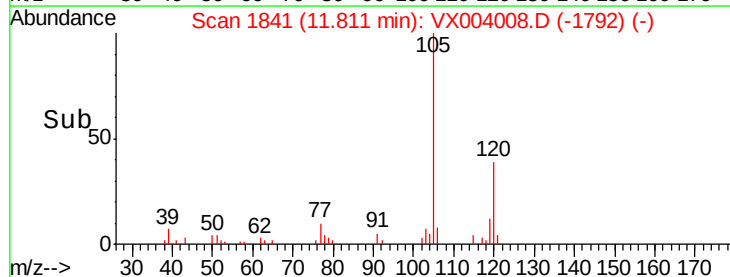
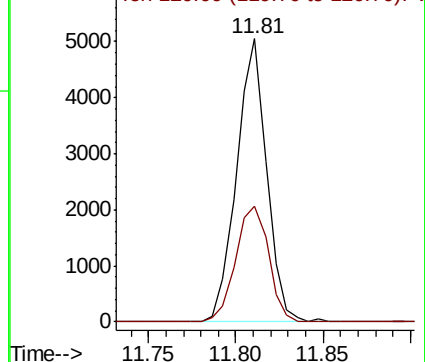
Ion Ratio Lower Upper

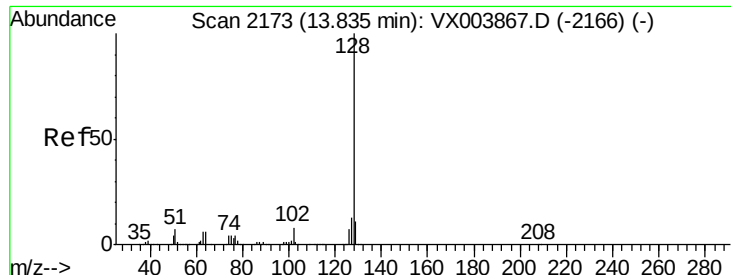
105 100

120 44.7 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 4.81 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VX004008.D
Acq: 13 Aug 2018 18:47

Instrument :
MSVOA_X
ClientSampleId :
SP-1-2

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.2	15.2
129	10.8	8.8	13.2

