

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030218\
 Data File : VX000197.D
 Acq On : 02 Mar 2018 17:43
 Operator : JC/MD
 Sample : J1778-01 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 03 04:42:51 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X021418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 15 12:46:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	86779	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	142077	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	129081	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	68141	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	55128	50.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.74%	
35) Dibromofluoromethane	5.52	113	42479	47.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.74%	
50) Toluene-d8	8.73	98	171203	48.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.80%	
62) 4-Bromofluorobenzene	11.15	95	59224	42.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.40%	

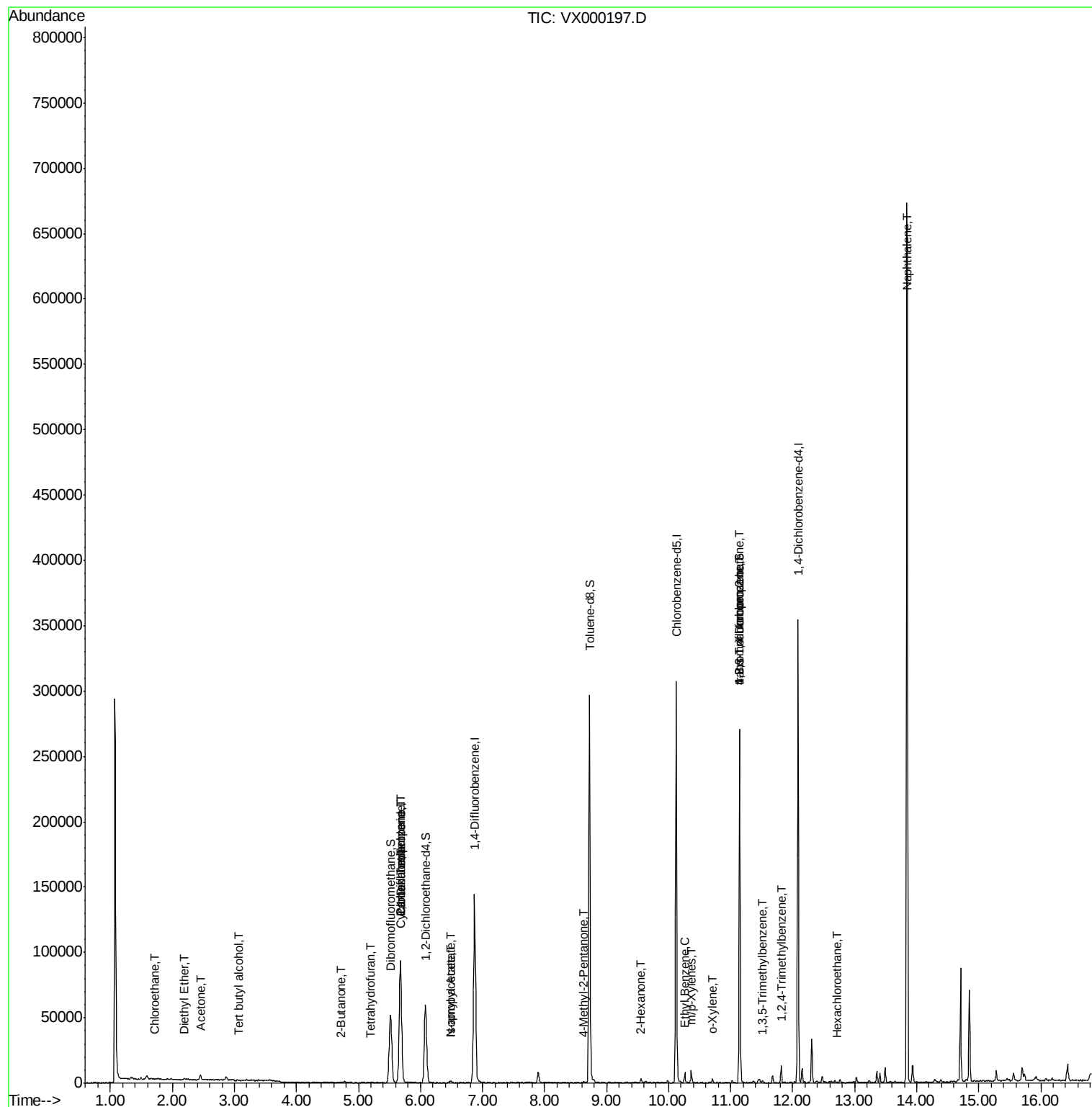
Target Compounds			Qvalue			
5) Bromomethane	1.66	94	93	Below Cal	#	16
6) Chloroethane	1.71	64	216	0.33	ug/l #	42
8) Diethyl Ether	2.19	74	147	0.24	ug/l #	1
11) Tert butyl alcohol	3.07	59	93	0.22	ug/l #	72
16) Acetone	2.45	43	3503	4.98	ug/l	98
20) Methylene Chloride	2.87	84	935	Below Cal	#	86
25) 2-Butanone	4.72	43	900	0.92	ug/l #	48
29) Tetrahydrofuran	5.19	42	243	0.38	ug/l #	30
31) Cyclohexane	5.69	56	2283	1.69	ug/l #	46
36) 1,1-Dichloropropene	5.68	75	6924	5.43	ug/l #	50
38) Carbon Tetrachloride	5.68	117	8832	6.41	ug/l #	16
41) Methacrylonitrile	5.09	41	107	Below Cal	#	1
43) Isopropyl Acetate	6.48	43	1584	0.63	ug/l #	77
51) 4-Methyl-2-Pentanone	8.63	43	399	0.22	ug/l #	36
59) 2-Hexanone	9.55	43	391	0.25	ug/l #	24
67) Ethyl Benzene	10.26	91	4606	1.01	ug/l #	82
68) m/p-Xylenes	10.37	106	2397	1.32	ug/l	92
69) o-Xylene	10.71	106	688	0.39	ug/l	73
74) N-amyl acetate	6.48	43	1584	0.73	ug/l #	78
76) 1,2,3-Trichloropropane	11.15	75	35335	25.03	ug/l #	32
80) 1,3,5-Trimethylbenzene	11.51	105	1012	0.28	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.15	75	35335	71.30	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.82	105	5393	1.42	ug/l	99
90) Hexachloroethane	12.71	117	309	0.46	ug/l #	8
95) Naphthalene	13.84	128	396192	70.47	ug/l	100

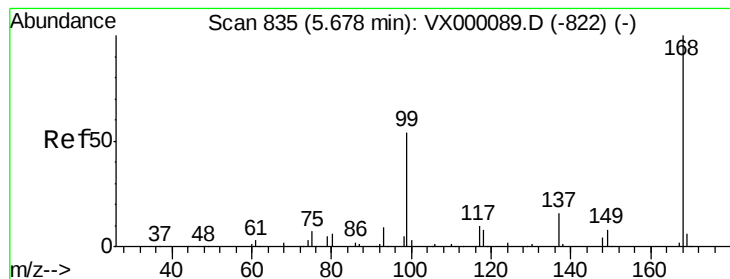
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X021418W.M
Quant Title : SW846 8260
QLast Update : Thu Feb 15 12:46:41 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000197.D

Acq: 02 Mar 2018 17:43

Instrument :

MSVOA_X

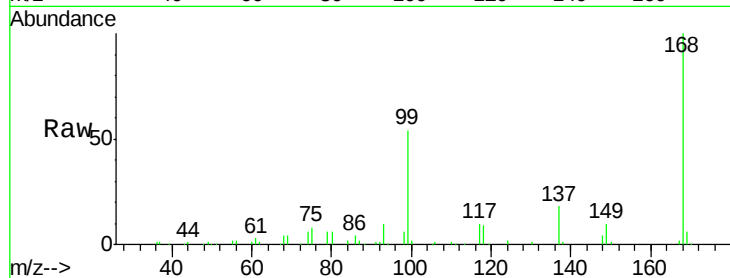
ClientSampleId :

Tot Ion:168 Resp: 86779

Ion Ratio Lower Upper

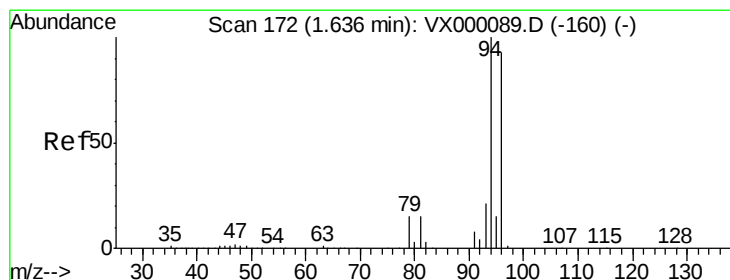
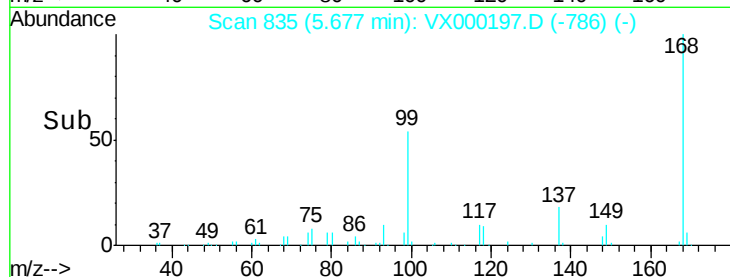
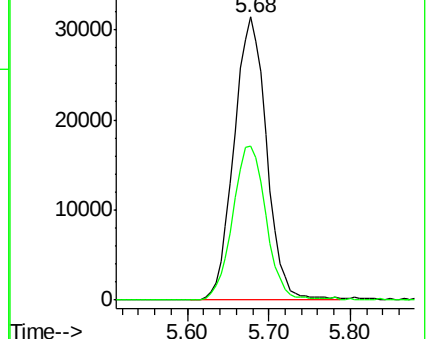
168 100

99 54.3 43.1 64.7



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: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX000197.D

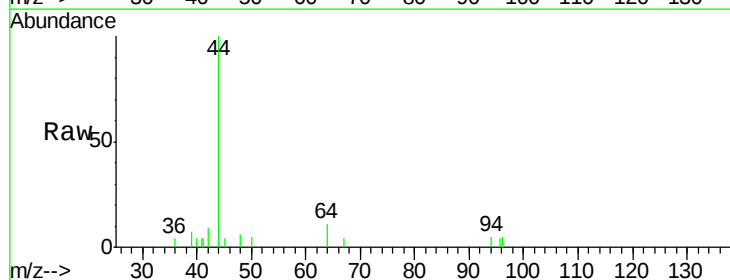
Acq: 02 Mar 2018 17:43

Tgt Ion: 94 Resp: 93

Ion Ratio Lower Upper

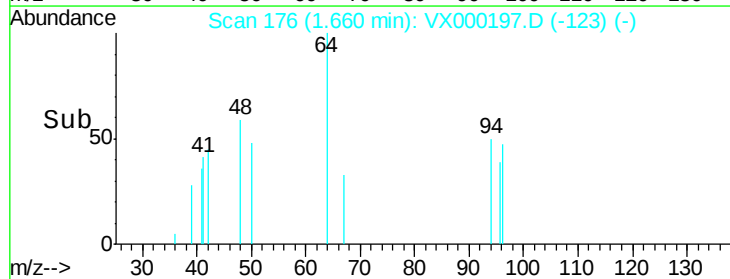
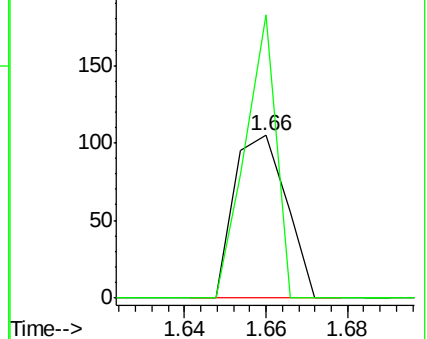
94 100

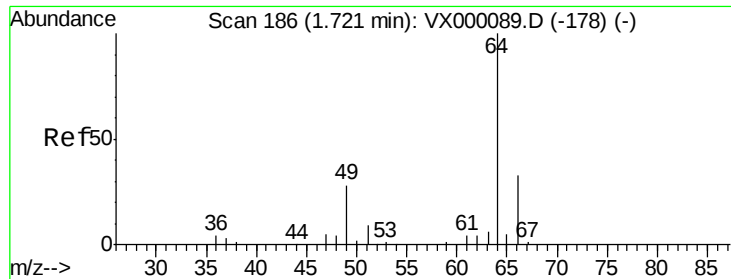
96 174.3 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.33 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX000197.D

Acq: 02 Mar 2018 17:43

Instrument :

MSVOA_X

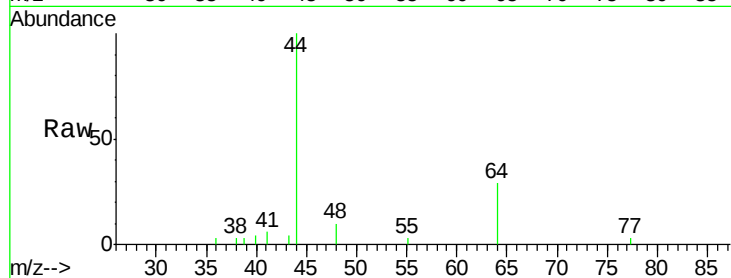
ClientSampled :

Tot Ion: 64 Resp: 216

Ion Ratio Lower Upper

64 100

66 0.0 26.0 39.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

600

500

400

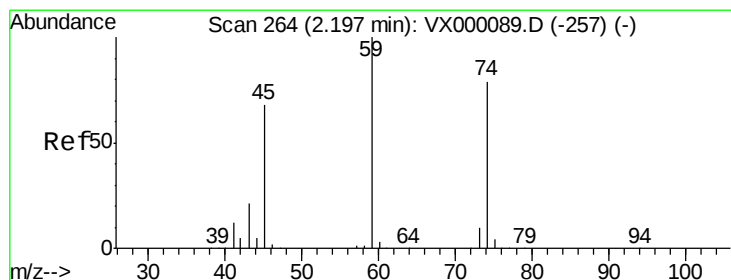
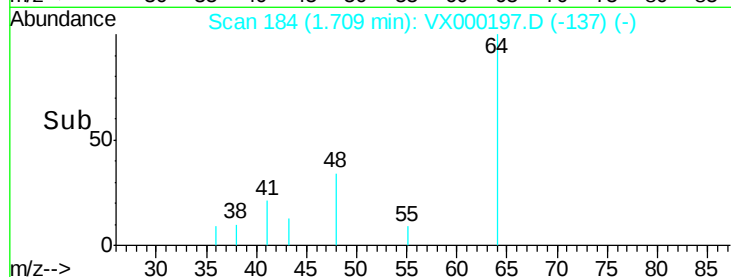
300

200

100

0

Time-->



#8

Diethyl Ether

Concen: 0.24 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX000197.D

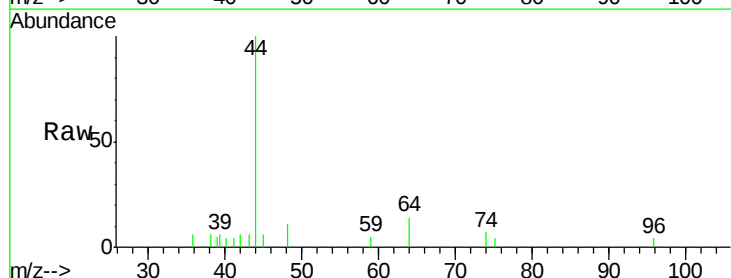
Acq: 02 Mar 2018 17:43

Tgt Ion: 74 Resp: 147

Ion Ratio Lower Upper

74 100

45 206.8 44.7 134.1#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

200

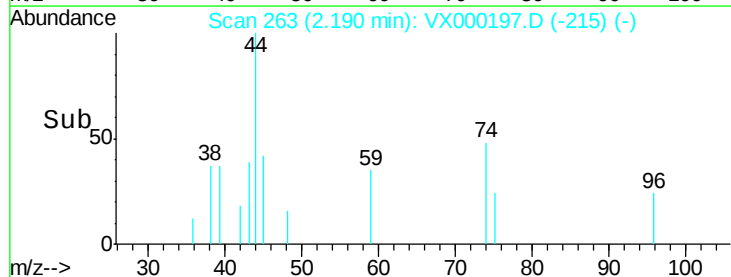
150

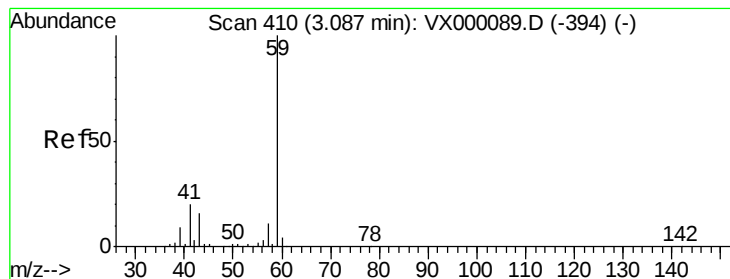
100

50

0

Time-->



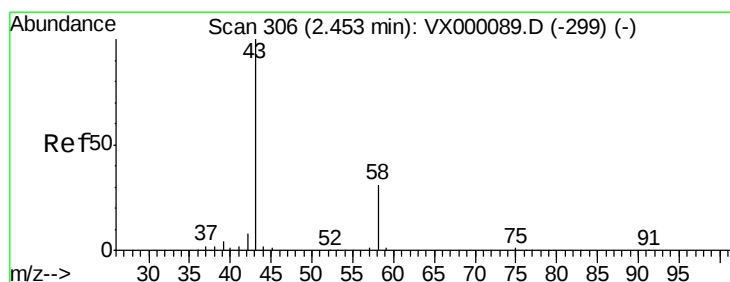
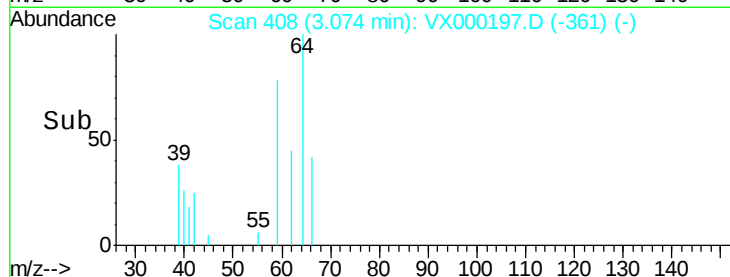
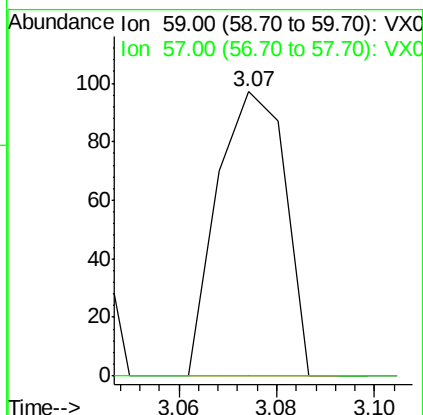
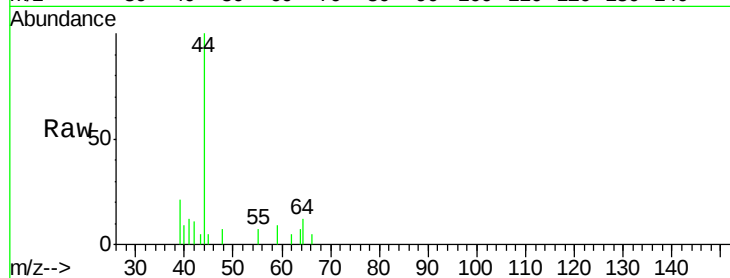


#11

Tert butyl alcohol
 Concen: 0.22 ug/l
 RT: 3.07 min Scan# 408
 Delta R.T. -0.01 min
 Lab File: VX000197.D
 Acq: 02 Mar 2018 17:43

Instrument :
 MSVOA_X
 ClientSampled :

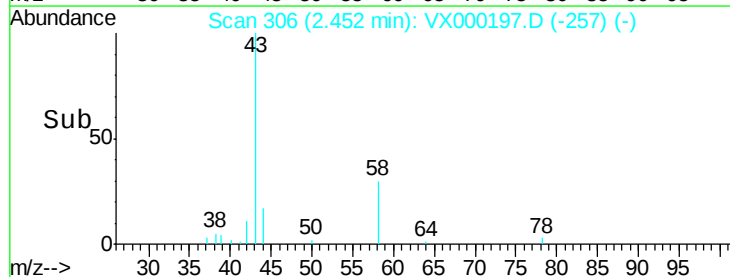
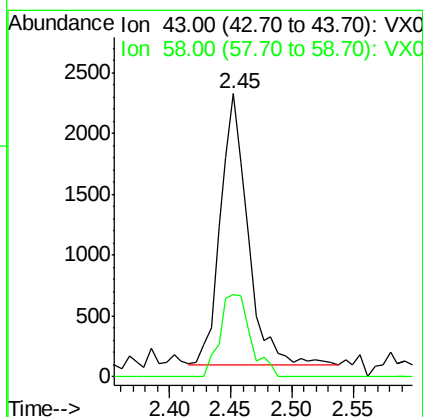
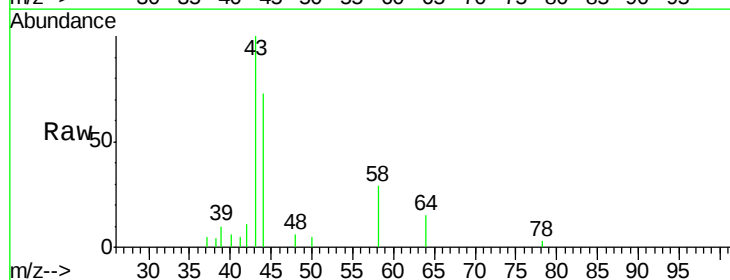
Tot Ion: 59 Resp: 93
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

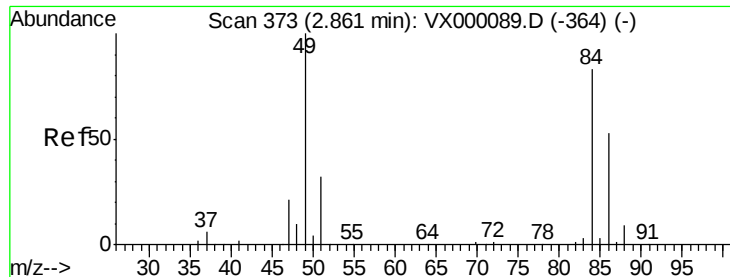


#16

Acetone
 Concen: 4.98 ug/l
 RT: 2.45 min Scan# 306
 Delta R.T. -0.00 min
 Lab File: VX000197.D
 Acq: 02 Mar 2018 17:43

Tgt Ion: 43 Resp: 3503
 Ion Ratio Lower Upper
 43 100
 58 30.2 25.0 37.4

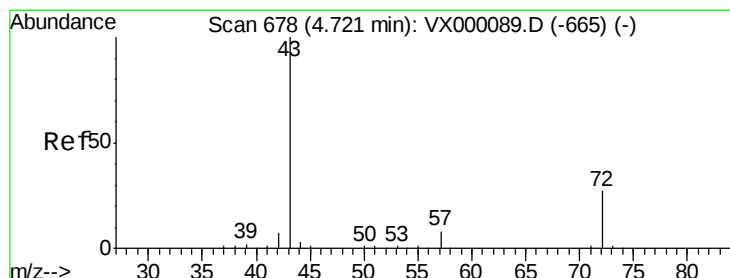
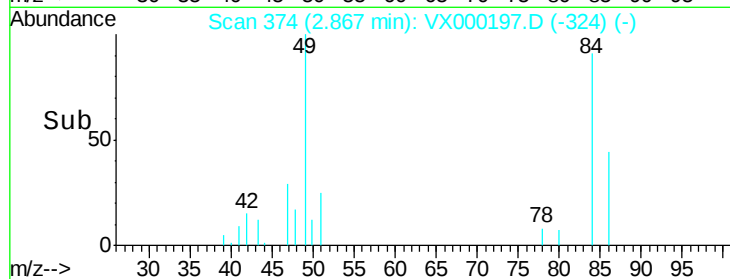
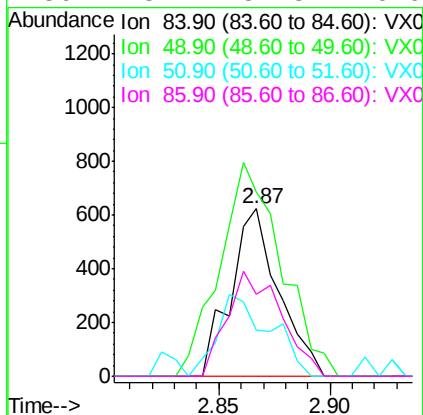
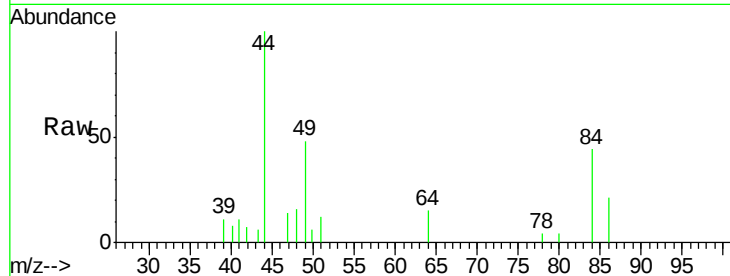




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX000197.D
Acq: 02 Mar 2018 17:43

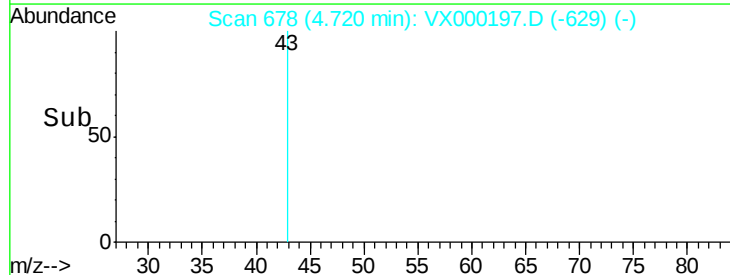
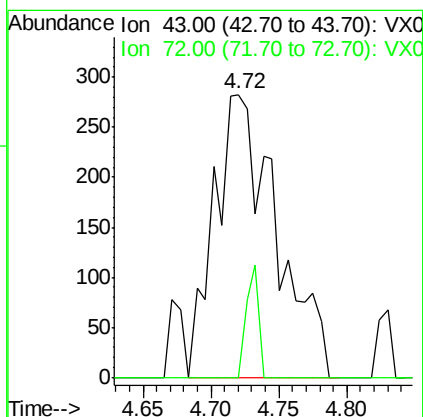
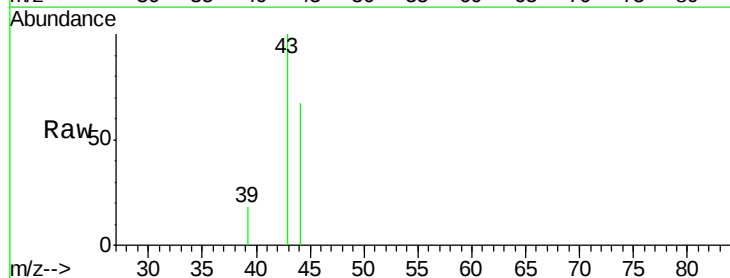
Instrument :
MSVOA_X
ClientSampleId :

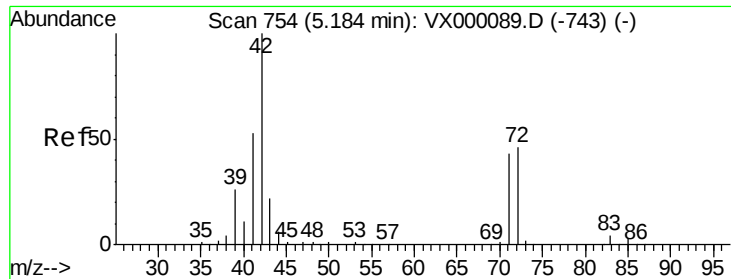
Tot Ion: 84 Resp: 935
Ion Ratio Lower Upper
84 100
49 110.1 96.1 144.1
51 27.4 30.5 45.7#
86 48.7 51.3 76.9#



#25
2-Butanone
Concen: 0.92 ug/l
RT: 4.72 min Scan# 678
Delta R.T. -0.00 min
Lab File: VX000197.D
Acq: 02 Mar 2018 17:43

Tgt Ion: 43 Resp: 900
Ion Ratio Lower Upper
43 100
72 0.0 21.3 31.9#





#29

Tetrahydrofuran

Concen: 0.38 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX000197.D

Acq: 02 Mar 2018 17:43

Instrument :

MSVOA_X

ClientSampleId :

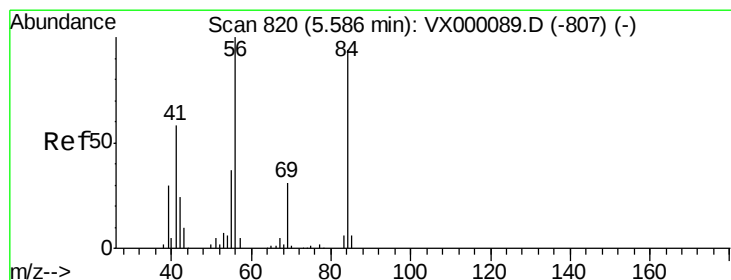
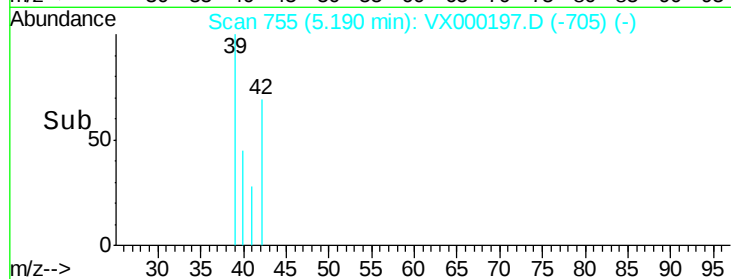
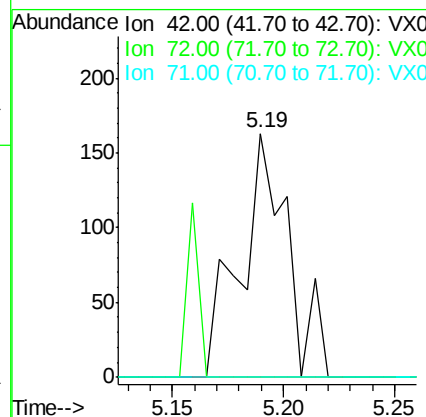
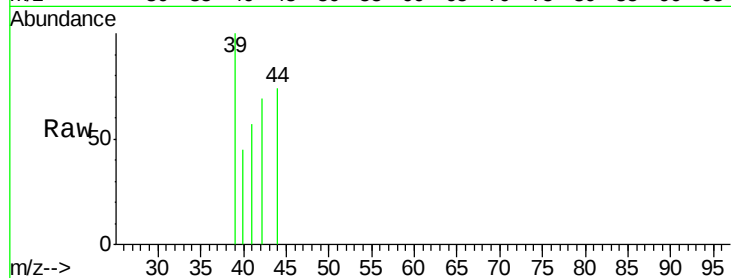
Tot Ion: 42 Resp: 243

Ion Ratio Lower Upper

42 100

72 0.0 38.6 58.0#

71 0.0 36.2 54.4#



#31

Cyclohexane

Concen: 1.69 ug/l

RT: 5.69 min Scan# 837

Delta R.T. 0.10 min

Lab File: VX000197.D

Acq: 02 Mar 2018 17:43

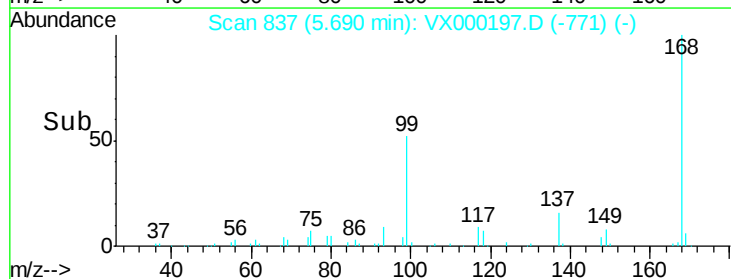
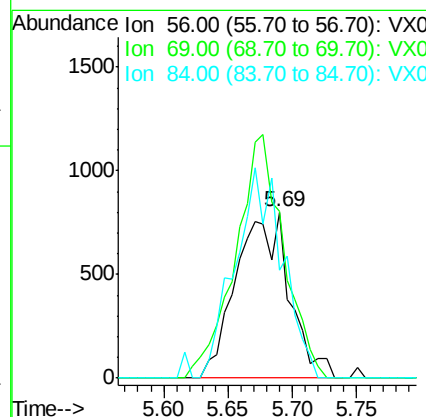
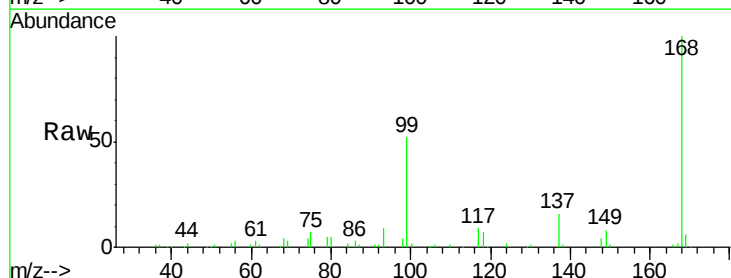
Tgt Ion: 56 Resp: 2283

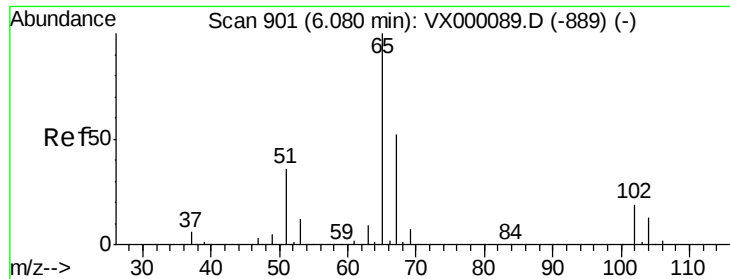
Ion Ratio Lower Upper

56 100

69 100.5 24.9 37.3#

84 65.0 75.0 112.4#

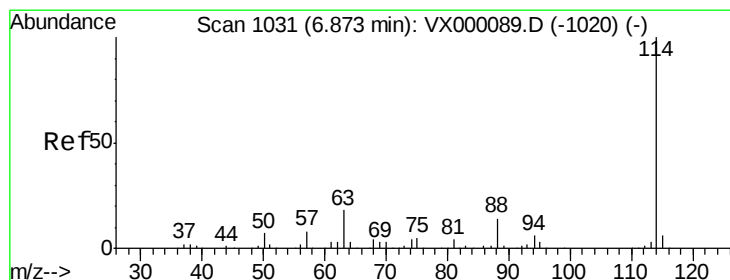
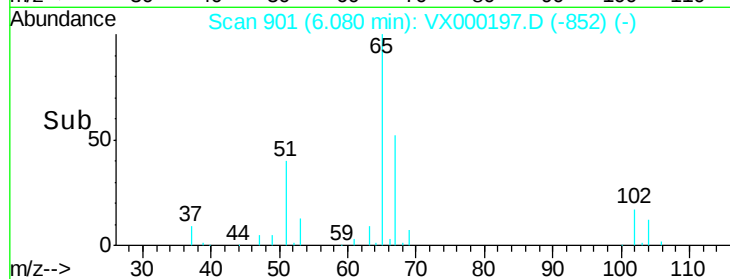
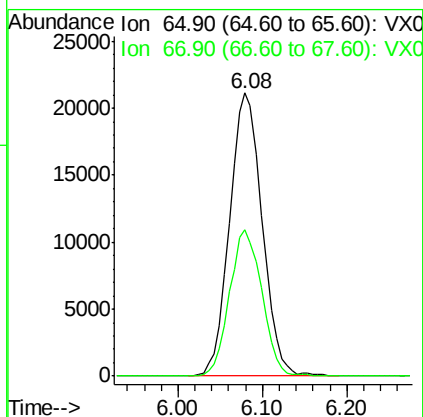
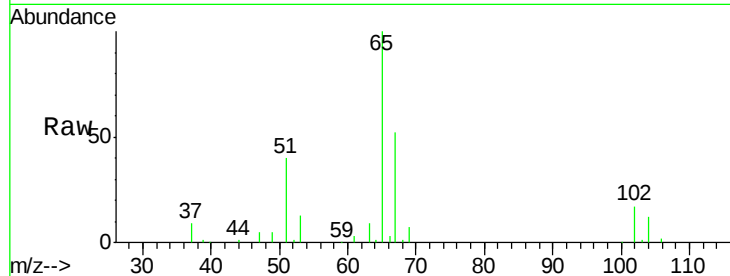




#33
 1,2-Dichloroethane-d4
 Concen: 50.87 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. -0.00 min
 Lab File: VX000197.D
 Acq: 02 Mar 2018 17:43

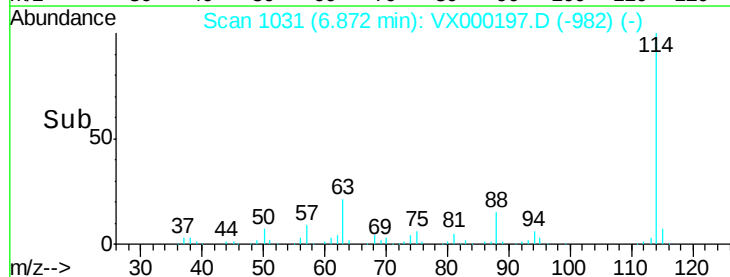
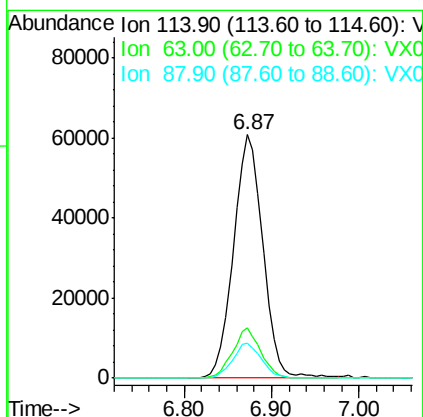
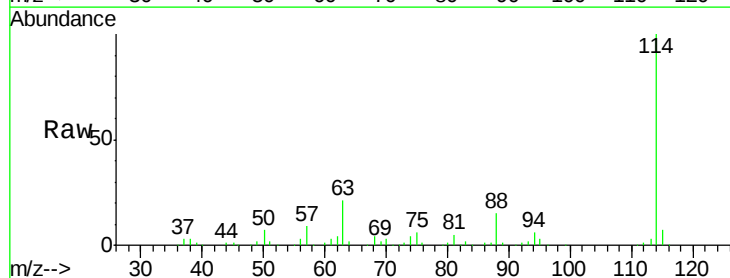
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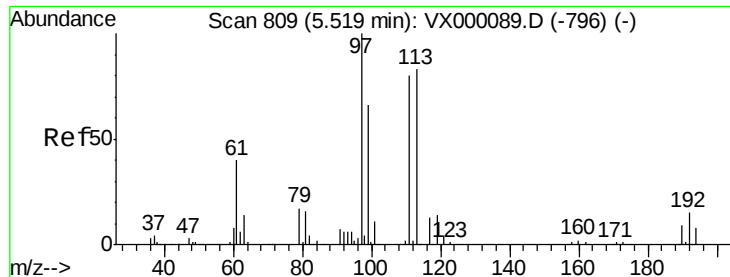
Tot Ion: 65 Resp: 55128
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VX000197.D
 Acq: 02 Mar 2018 17:43

Tgt Ion: 114 Resp: 142077
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 36.4
 88 14.5 0.0 29.0

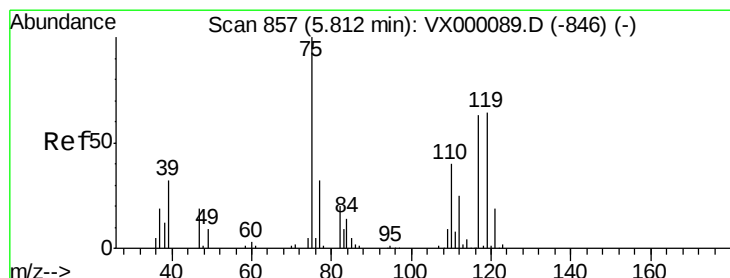
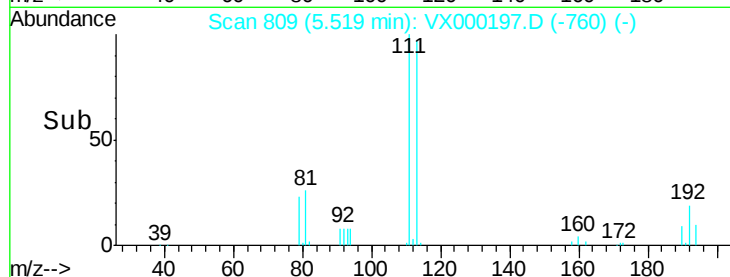
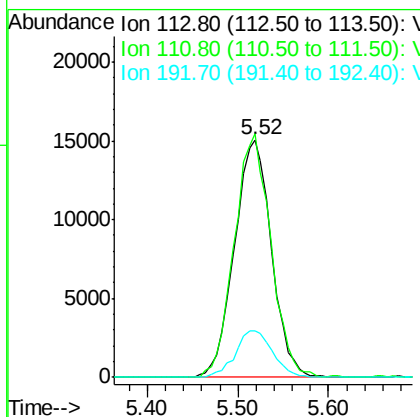
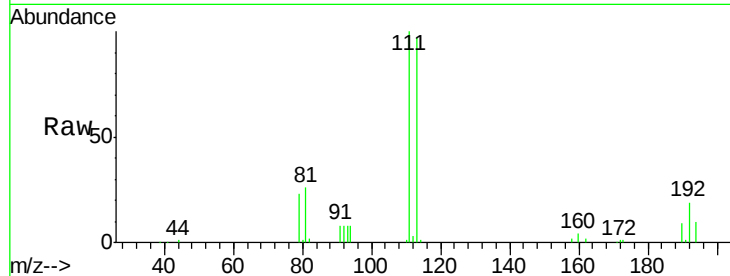




#35
 Dibromofluoromethane
 Concen: 47.37 ug/l
 RT: 5.52 min Scan# 809
 Delta R.T. -0.00 min
 Lab File: VX000197.D
 Acq: 02 Mar 2018 17:43

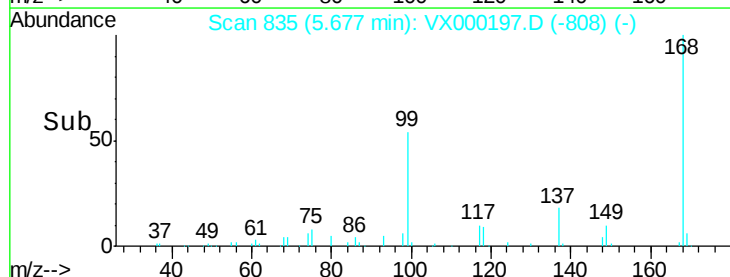
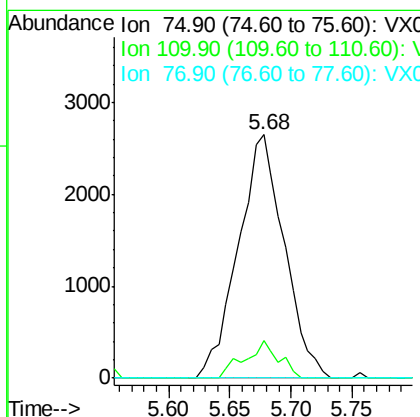
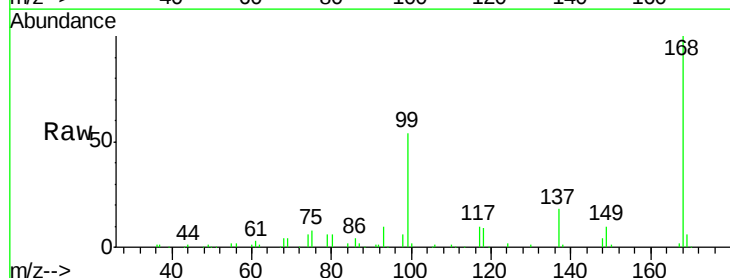
Instrument :
 MSVOA_X
 ClientSampleId :

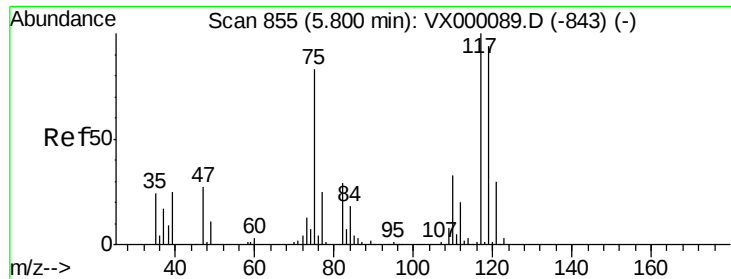
Tot Ion:113 Resp: 42479
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.0 121.6
 192 19.7 15.7 23.5



#36
 1,1-Dichloropropene
 Concen: 5.43 ug/l
 RT: 5.68 min Scan# 835
 Delta R.T. -0.13 min
 Lab File: VX000197.D
 Acq: 02 Mar 2018 17:43

Tgt Ion: 75 Resp: 6924
 Ion Ratio Lower Upper
 75 100
 110 11.3 19.5 58.5#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.41 ua/l

RT: 5.68 min Scan# 835

Delta R.T. -0.12 min

Lab File: VX000197.D

Acq: 02 Mar 2018 17:43

Instrument :
MSVOA_X
ClientSampled :

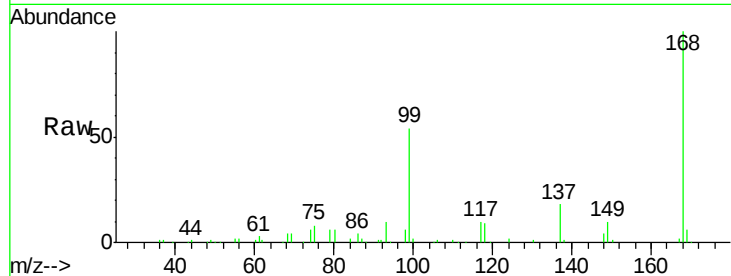
Tot Ion:117 Resp: 8832

Ion Ratio Lower Upper

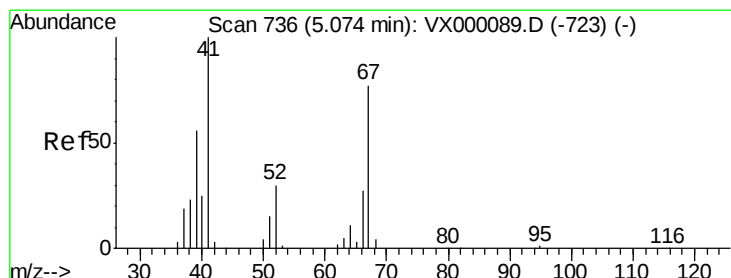
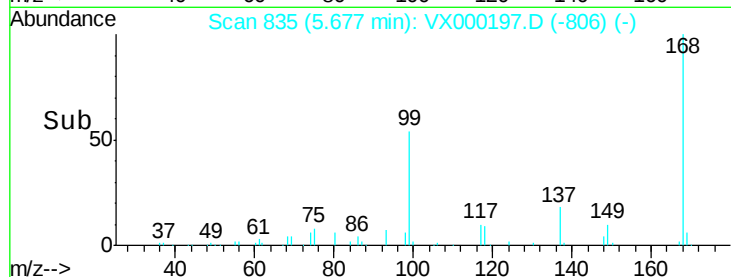
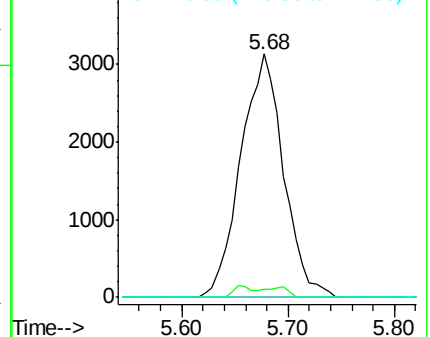
117 100

119 3.5 75.3 112.9#

121 0.0 23.7 35.5#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 5.09 min Scan# 739

Delta R.T. 0.02 min

Lab File: VX000197.D

Acq: 02 Mar 2018 17:43

Tgt Ion: 41 Resp: 107

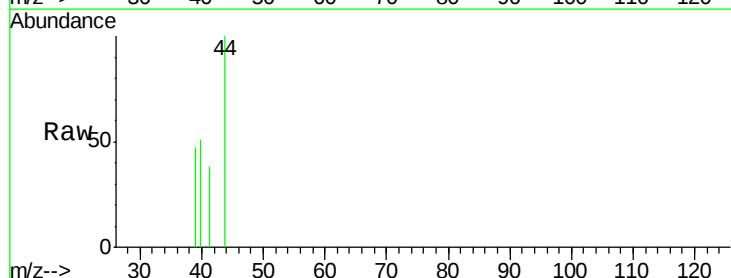
Ion Ratio Lower Upper

41 100

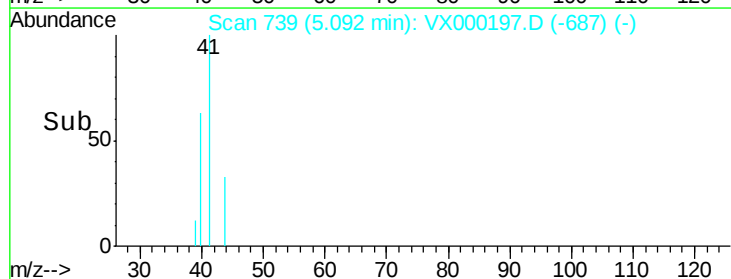
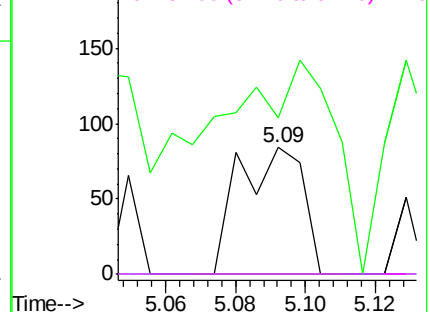
39 271.0 45.1 67.7#

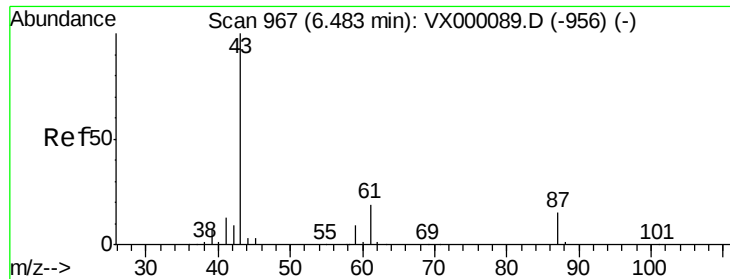
67 0.0 61.0 91.4#

52 0.0 25.8 38.6#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 0.63 ug/l

RT: 6.48 min Scan# 967

Delta R.T. -0.00 min

Lab File: VX000197.D

Acq: 02 Mar 2018 17:43

Instrument :

MSVOA_X

ClientSampleId :

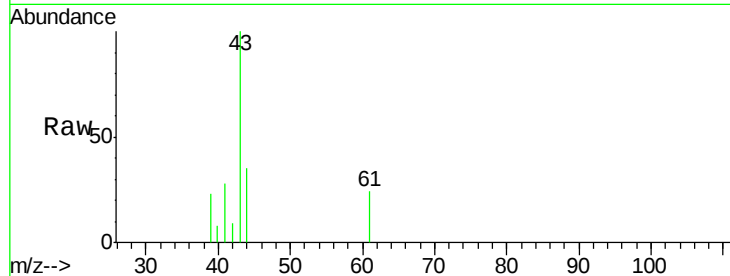
Tot Ion: 43 Resp: 1584

Ion Ratio Lower Upper

43 100

61 9.3 15.6 23.4#

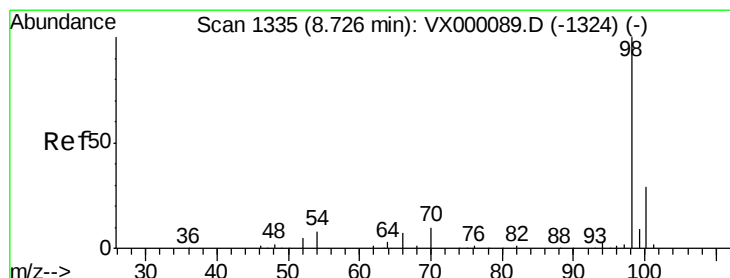
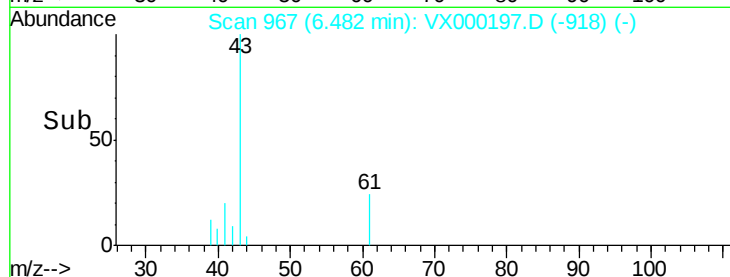
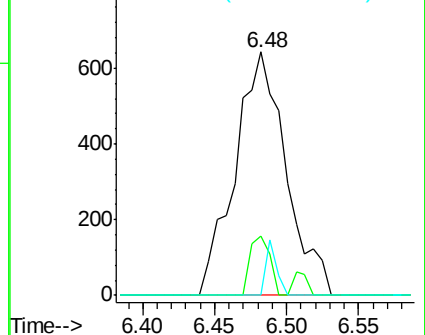
87 4.5 11.7 17.5#



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: 48.40 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000197.D

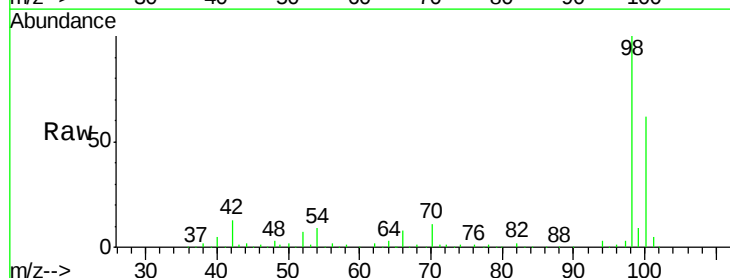
Acq: 02 Mar 2018 17:43

Tgt Ion: 98 Resp: 171203

Ion Ratio Lower Upper

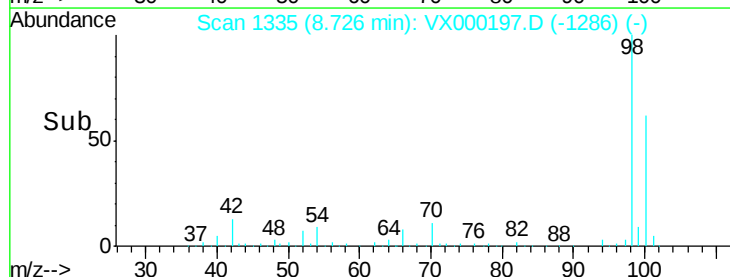
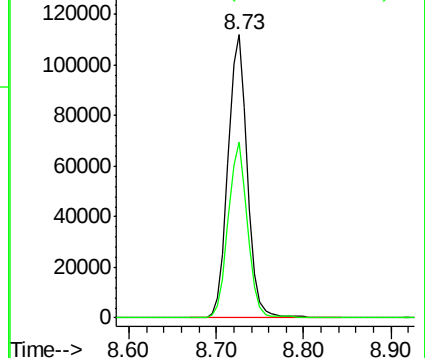
98 100

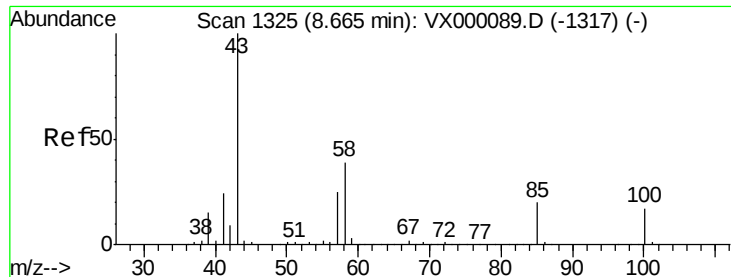
100 62.3 52.2 78.2



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: 0.22 ug/l

RT: 8.63 min Scan# 1319

Delta R.T. -0.04 min

Lab File: VX000197.D

Acq: 02 Mar 2018 17:43

Instrument :

MSVOA_X

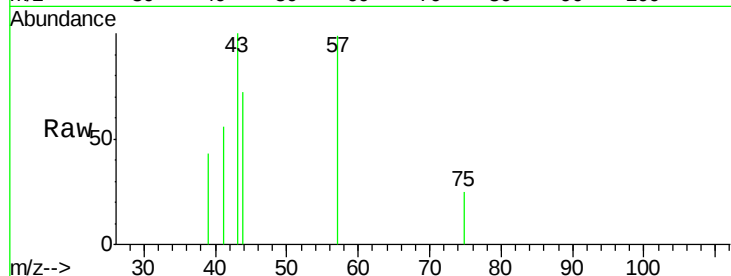
ClientSampled :

Tot Ion: 43 Resp: 399

Ion Ratio Lower Upper

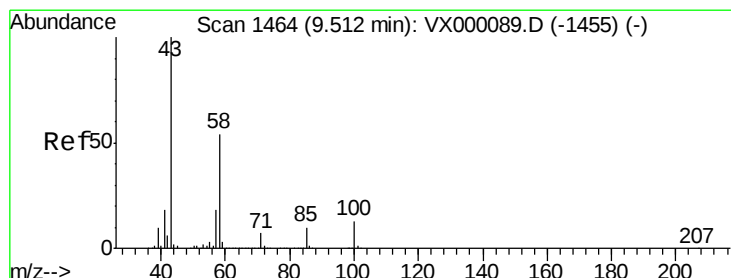
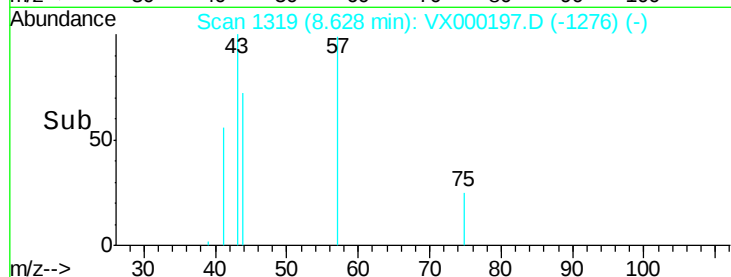
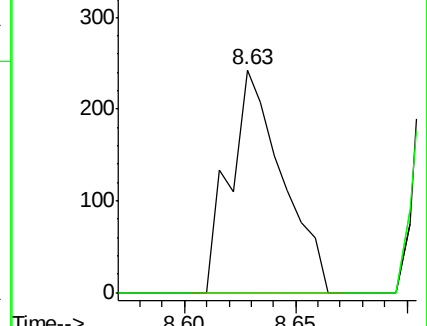
43 100

58 0.0 31.6 47.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#59

2-Hexanone

Concen: 0.25 ug/l

RT: 9.55 min Scan# 1470

Delta R.T. 0.04 min

Lab File: VX000197.D

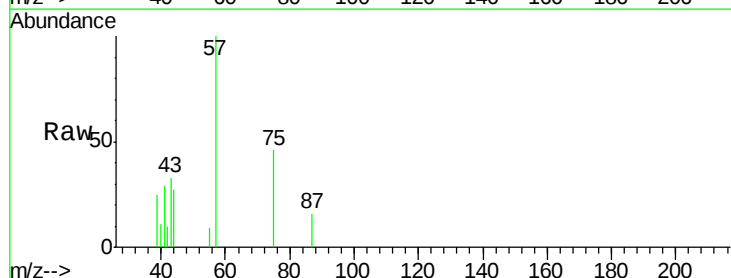
Acq: 02 Mar 2018 17:43

Tgt Ion: 43 Resp: 391

Ion Ratio Lower Upper

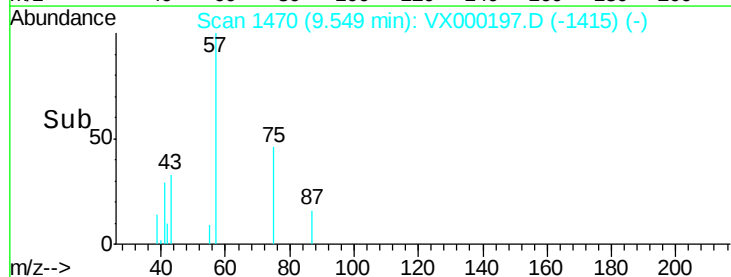
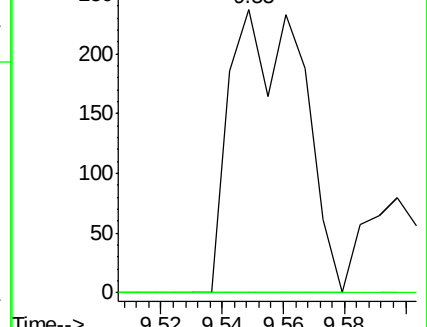
43 100

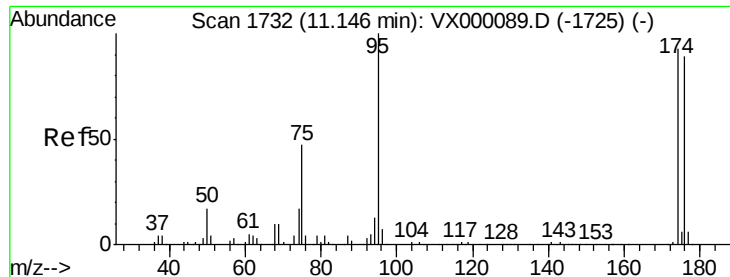
58 0.0 27.1 81.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

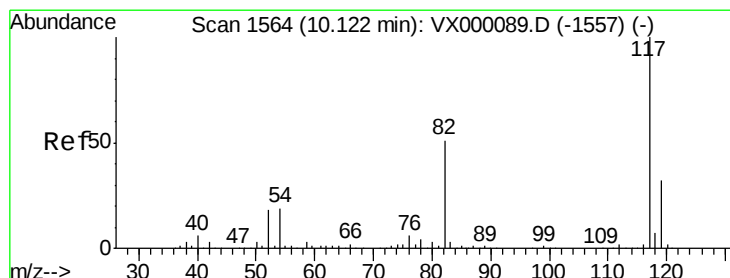
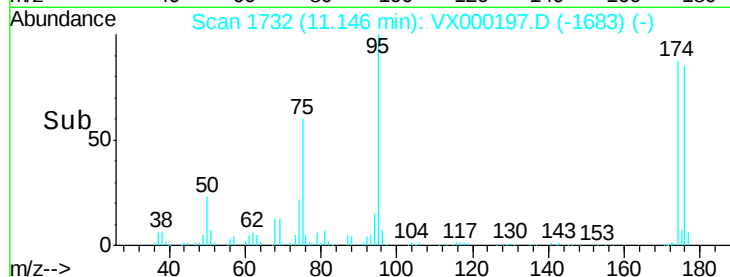
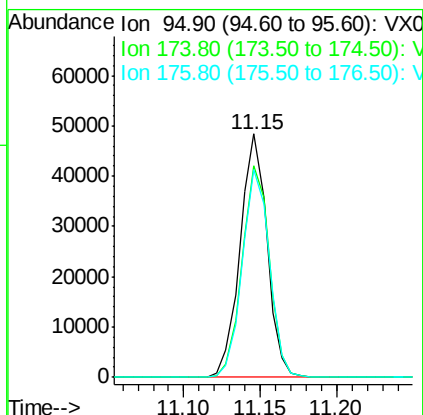
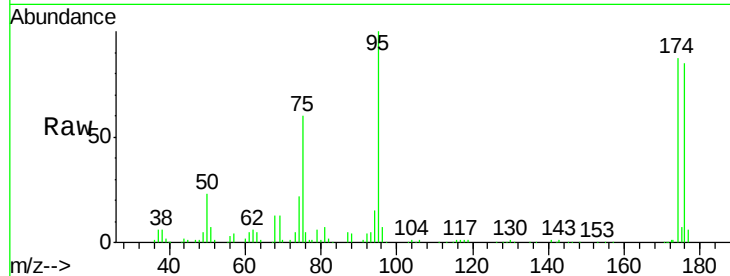




#62
4-Bromofluorobenzene
Concen: 42.70 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VX000197.D
Acq: 02 Mar 2018 17:43

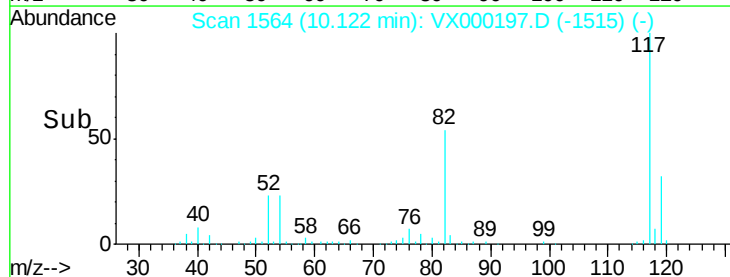
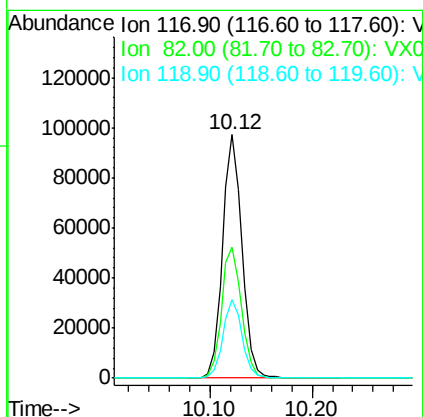
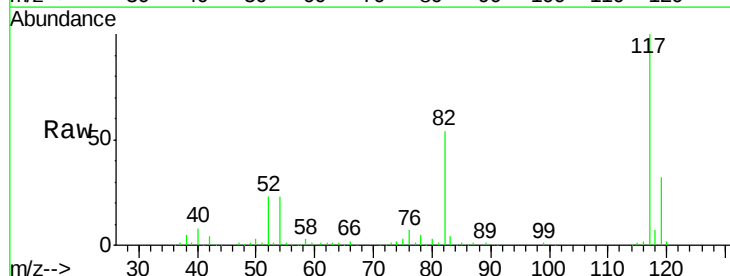
Instrument :
MSVOA_X
ClientSampleId :

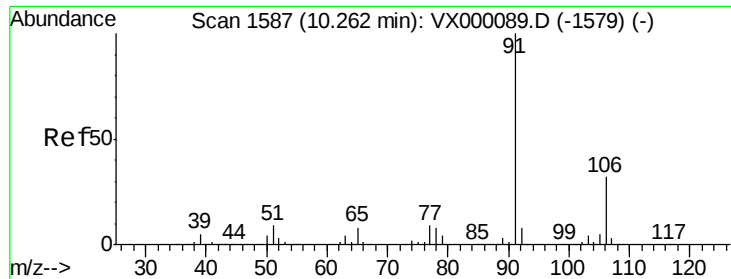
Tot Ion: 95 Resp: 59224
Ion Ratio Lower Upper
95 100
174 87.8 0.0 187.8
176 86.0 0.0 181.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000197.D
Acq: 02 Mar 2018 17:43

Tgt Ion: 117 Resp: 129081
Ion Ratio Lower Upper
117 100
82 53.6 41.0 61.6
119 32.4 25.5 38.3





#67

Ethyl Benzene

Concen: 1.01 ug/l

RT: 10.26 min Scan# 1587

Delta R.T. -0.00 min

Lab File: VX000197.D

Acq: 02 Mar 2018 17:43

Instrument :

MSVOA_X

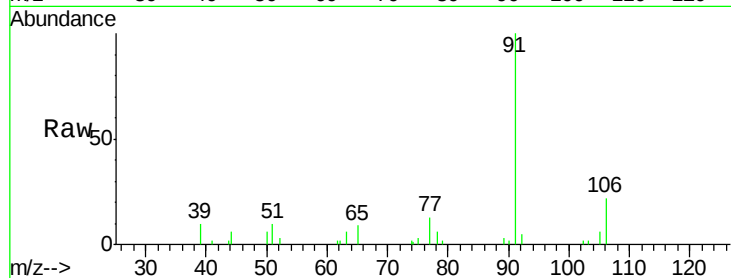
ClientSampled :

Tot Ion: 91 Resp: 4606

Ion Ratio Lower Upper

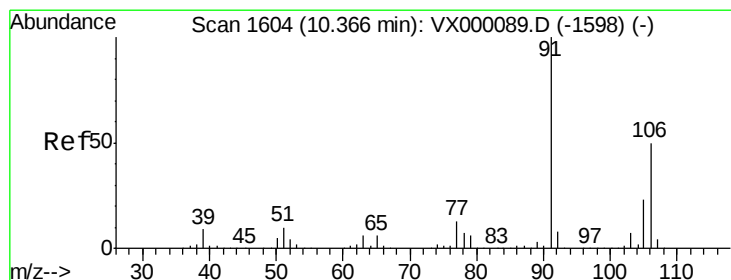
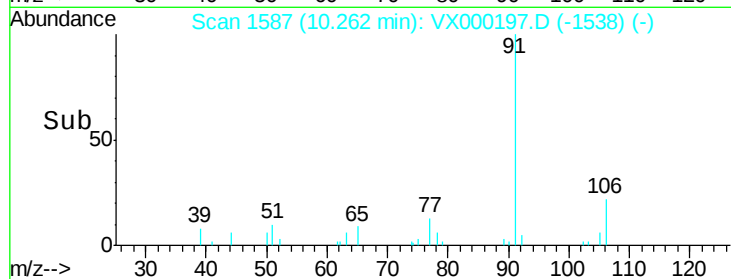
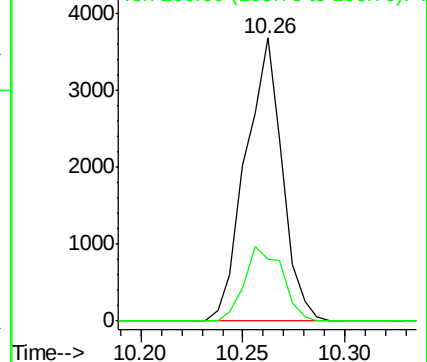
91 100

106 21.9 25.8 38.6#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 1.32 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VX000197.D

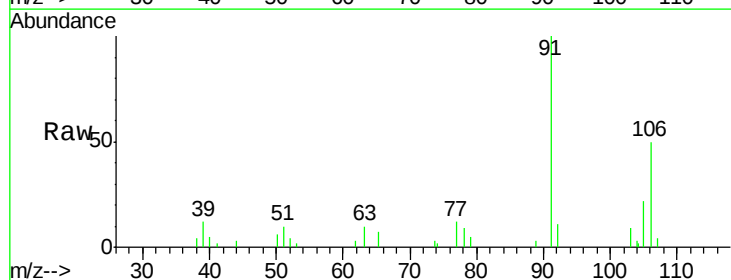
Acq: 02 Mar 2018 17:43

Tgt Ion: 106 Resp: 2397

Ion Ratio Lower Upper

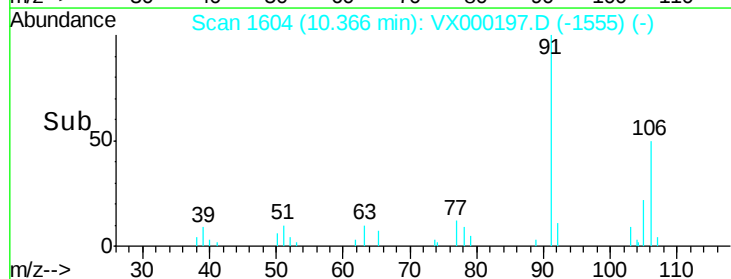
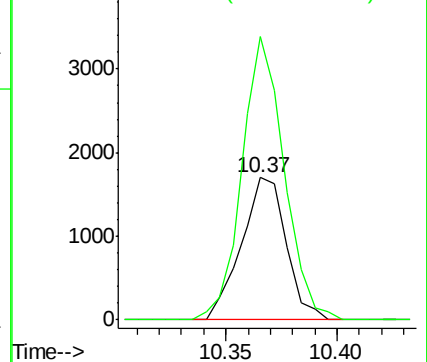
106 100

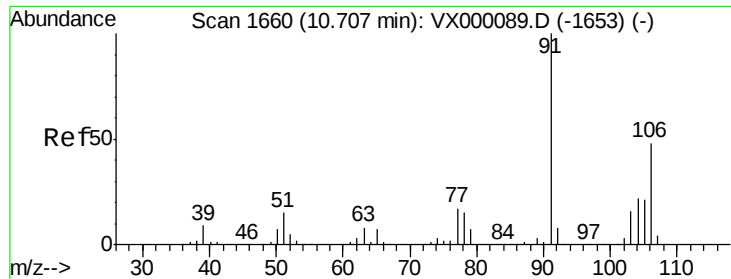
91 186.5 159.1 238.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

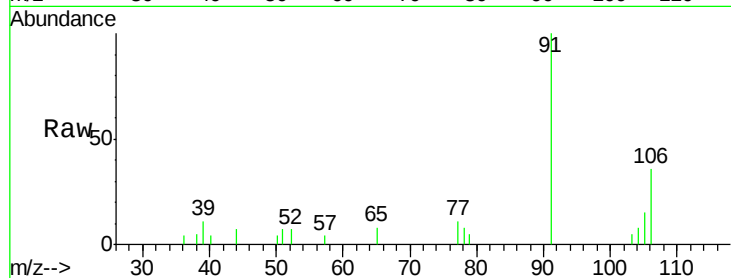




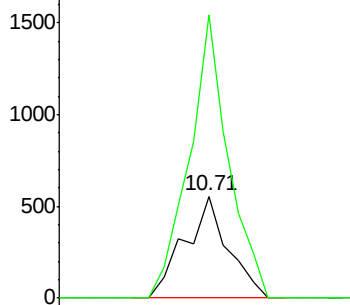
#69
o-Xylene
Concen: 0.39 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VX000197.D
Acq: 02 Mar 2018 17:43

Instrument :
MSVOA_X
ClientSampleId :

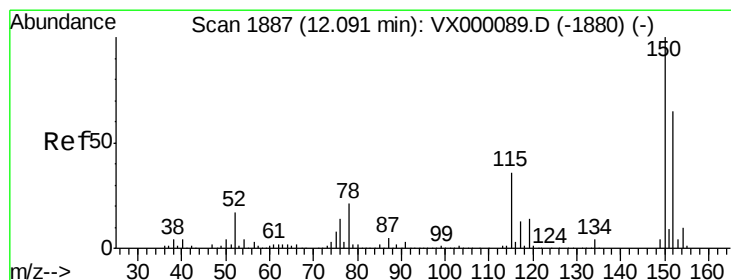
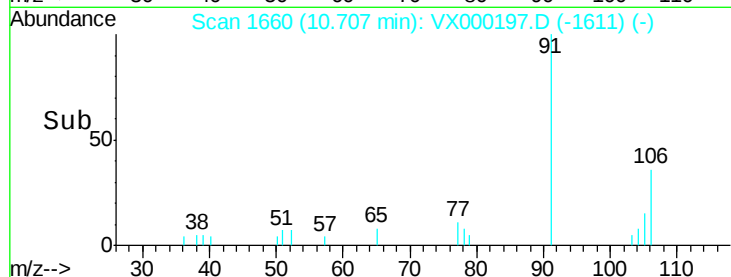
Tot Ion:106 Resp: 688
Ion Ratio Lower Upper
106 100
91 249.4 103.8 311.6



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

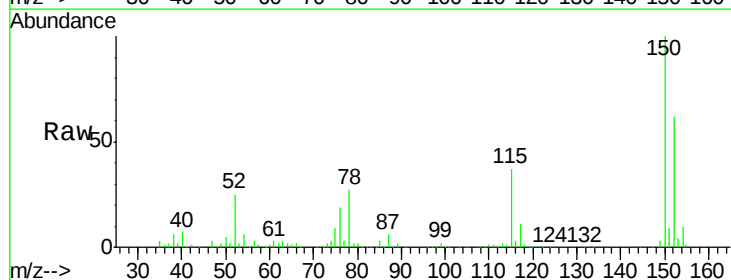


Time--> 10.65 10.70 10.75

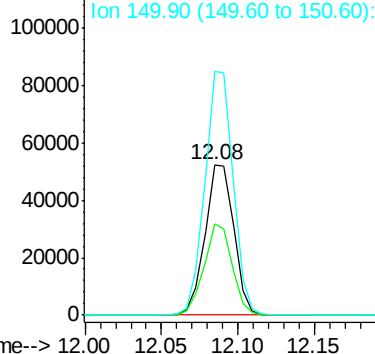


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.01 min
Lab File: VX000197.D
Acq: 02 Mar 2018 17:43

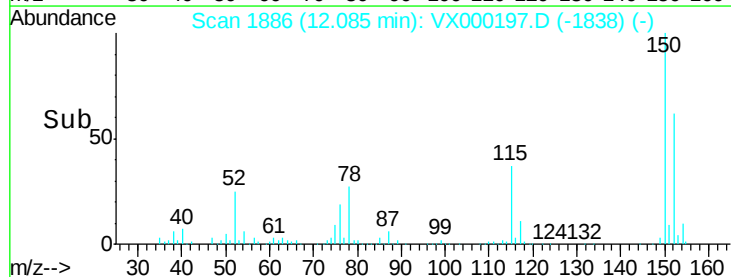
Tgt Ion:152 Resp: 68141
Ion Ratio Lower Upper
152 100
115 58.8 39.1 117.2
150 159.4 0.0 348.2

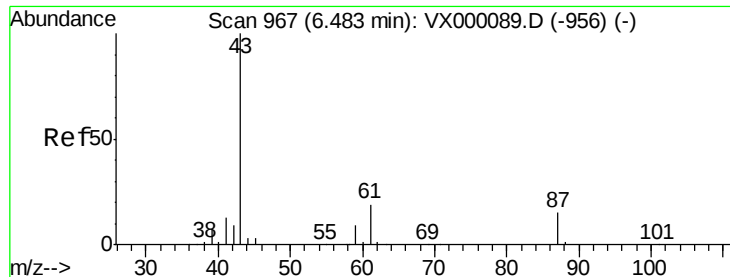


Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



Time--> 12.00 12.05 12.10 12.15





#74

N-amvl acetate

Concen: 0.73 ug/l

RT: 6.48 min Scan# 967

Delta R.T. -0.00 min

Lab File: VX000197.D

Acq: 02 Mar 2018 17:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1584

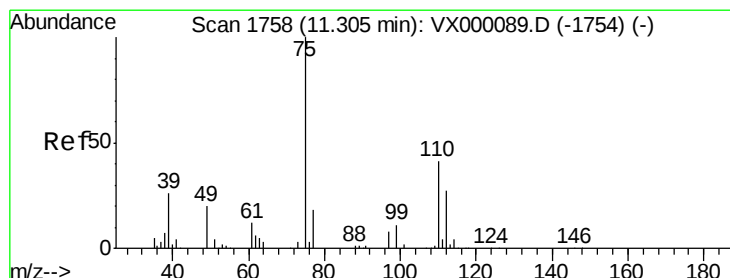
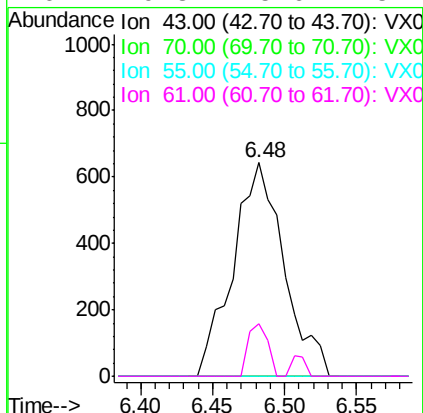
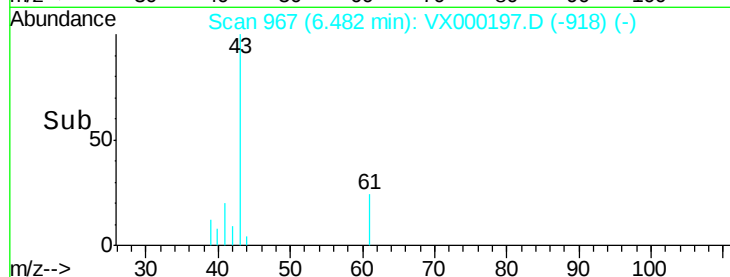
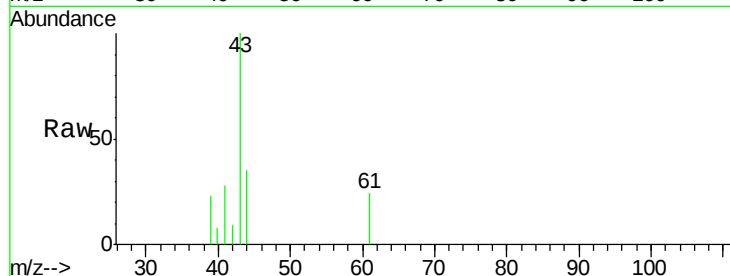
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.1 0.1#

61 9.3 15.6 23.4#



#76

1,2,3-Trichloropropane

Concen: 25.03 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000197.D

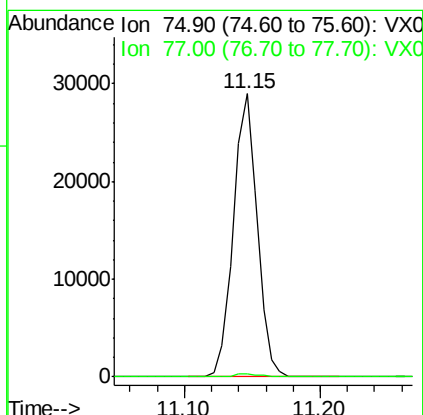
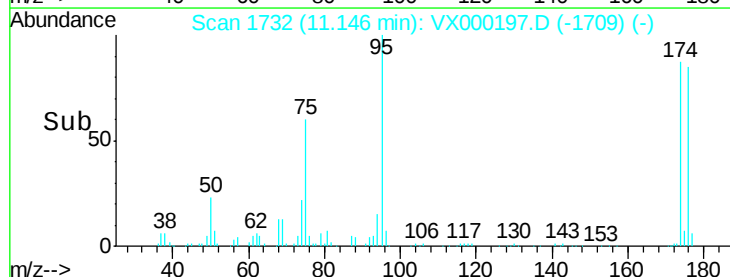
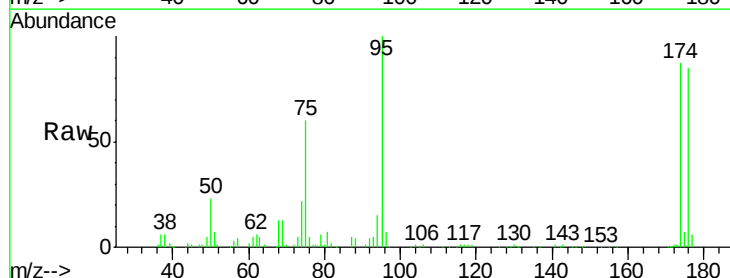
Acq: 02 Mar 2018 17:43

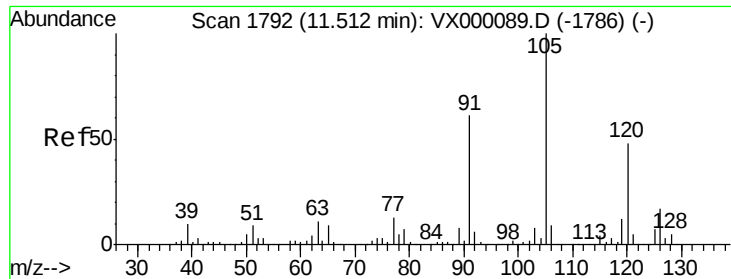
Tgt Ion: 75 Resp: 35335

Ion Ratio Lower Upper

75 100

77 1.0 22.8 68.3#

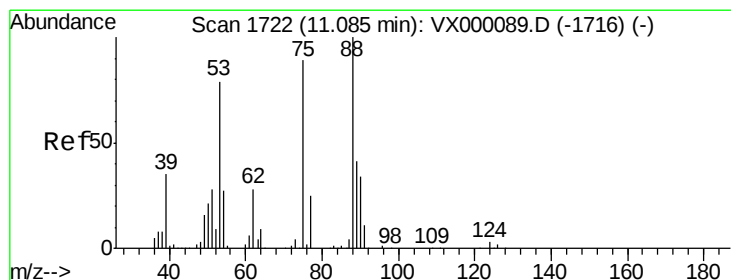
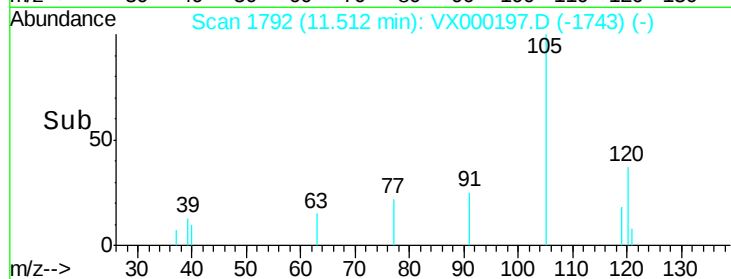
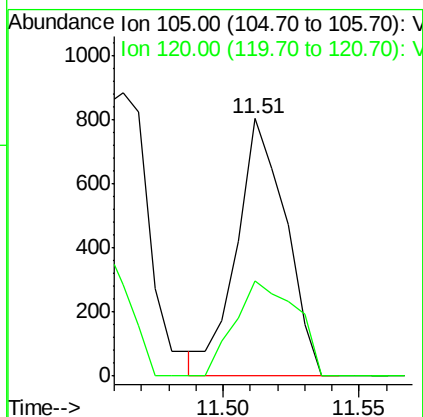
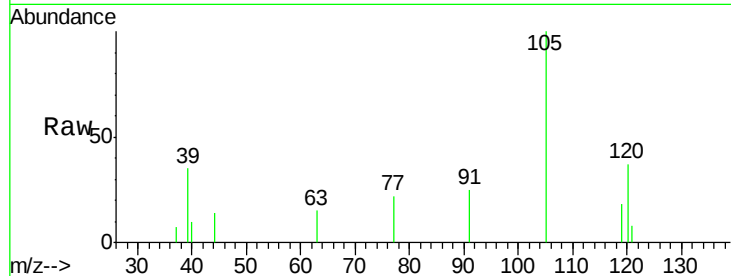




#80
 1,3,5-Trimethylbenzene
 Concen: 0.28 ug/l
 RT: 11.51 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX000197.D
 Acq: 02 Mar 2018 17:43

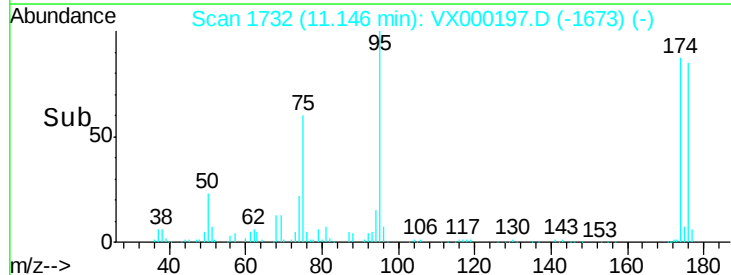
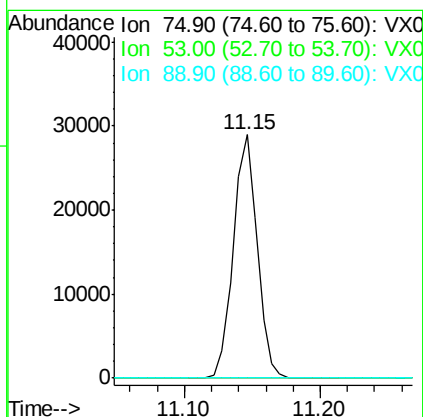
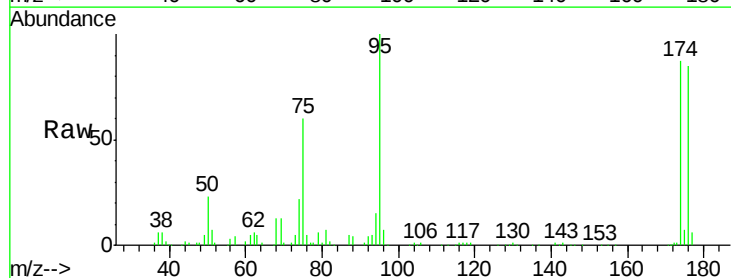
Instrument :
 MSVOA_X
 ClientSampled :

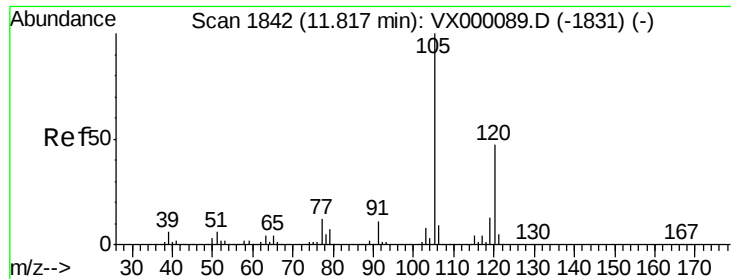
Tot Ion:105 Resp: 1012
 Ion Ratio Lower Upper
 105 100
 120 46.0 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.30 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. 0.06 min
 Lab File: VX000197.D
 Acq: 02 Mar 2018 17:43

Tgt Ion: 75 Resp: 35335
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.3 108.5#
 89 0.0 40.6 60.8#

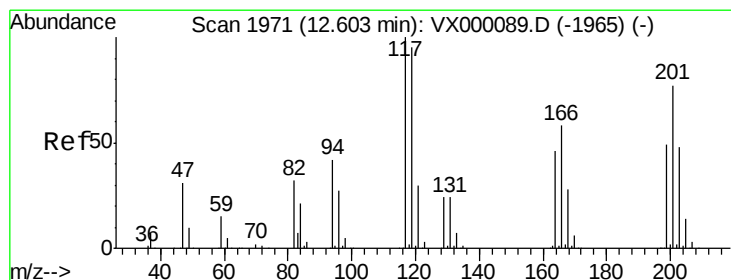
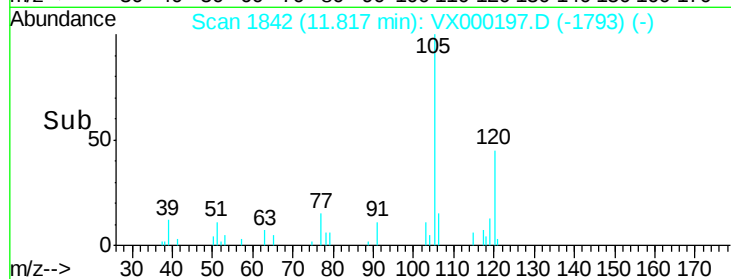
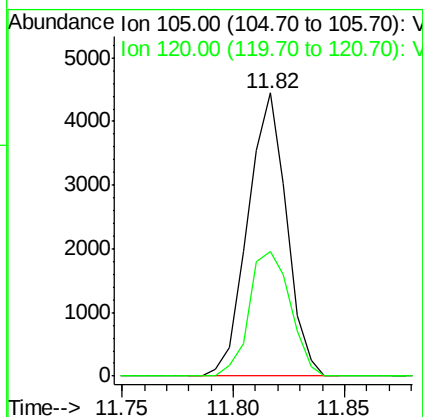
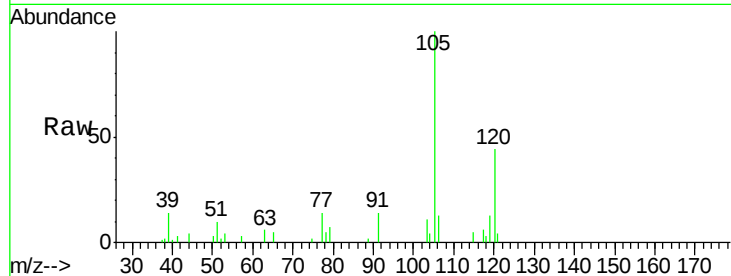




#84
 1,2,4-Trimethylbenzene
 Concen: 1.42 ug/l
 RT: 11.82 min Scan# 1842
 Delta R.T. -0.00 min
 Lab File: VX000197.D
 Acq: 02 Mar 2018 17:43

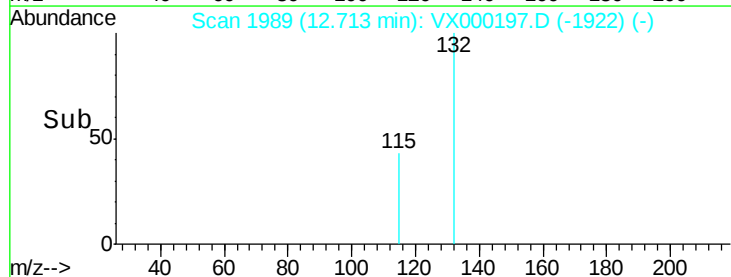
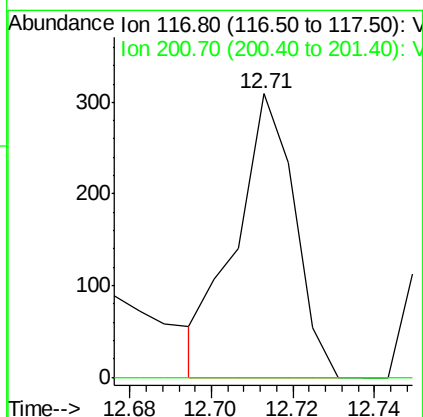
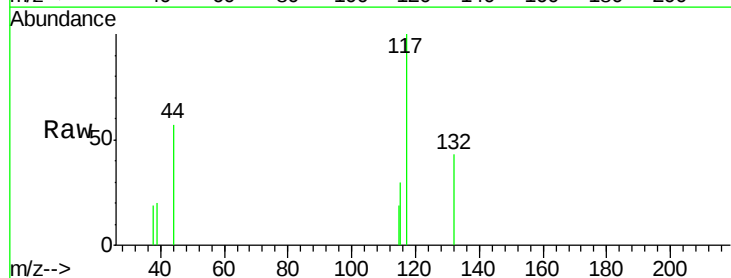
Instrument :
 MSVOA_X
 ClientSampleId :

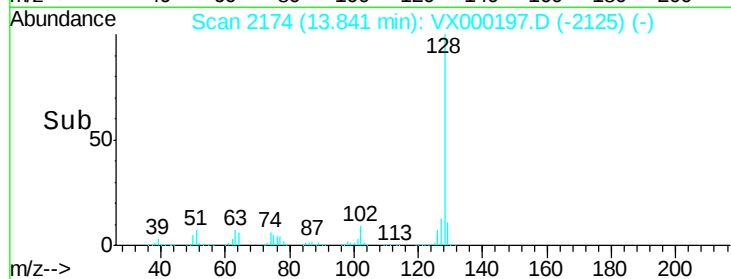
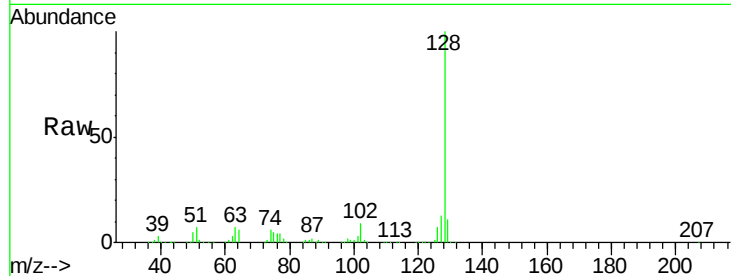
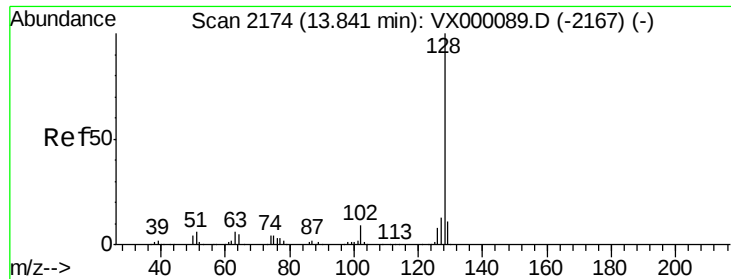
Tot Ion:105 Resp: 5393
 Ion Ratio Lower Upper
 105 100
 120 46.9 23.1 69.2



#90
 Hexachloroethane
 Concen: 0.46 ug/l
 RT: 12.71 min Scan# 1989
 Delta R.T. 0.11 min
 Lab File: VX000197.D
 Acq: 02 Mar 2018 17:43

Tgt Ion:117 Resp: 309
 Ion Ratio Lower Upper
 117 100
 201 0.0 41.1 123.4#





#95

Naphthalene

Concen: 70.47 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000197.D

Acq: 02 Mar 2018 17:43

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:128 Resp: 396192

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 11.0 8.7 13.1

