

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX033118\
 Data File : VX000598.D
 Acq On : 31 Mar 2018 17:25
 Operator : JC/MD
 Sample : J2146-04 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 02 05:18:54 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	119901	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	203264	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	196897	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	105756	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	81716	52.21	ug/l	0.00
Spiked Amount			Recovery	=	104.42%	
35) Dibromofluoromethane	5.51	113	64256	50.17	ug/l	0.00
Spiked Amount			Recovery	=	100.34%	
50) Toluene-d8	8.73	98	254274	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
62) 4-Bromofluorobenzene	11.15	95	89309	41.10	ug/l	0.00
Spiked Amount			Recovery	=	82.20%	

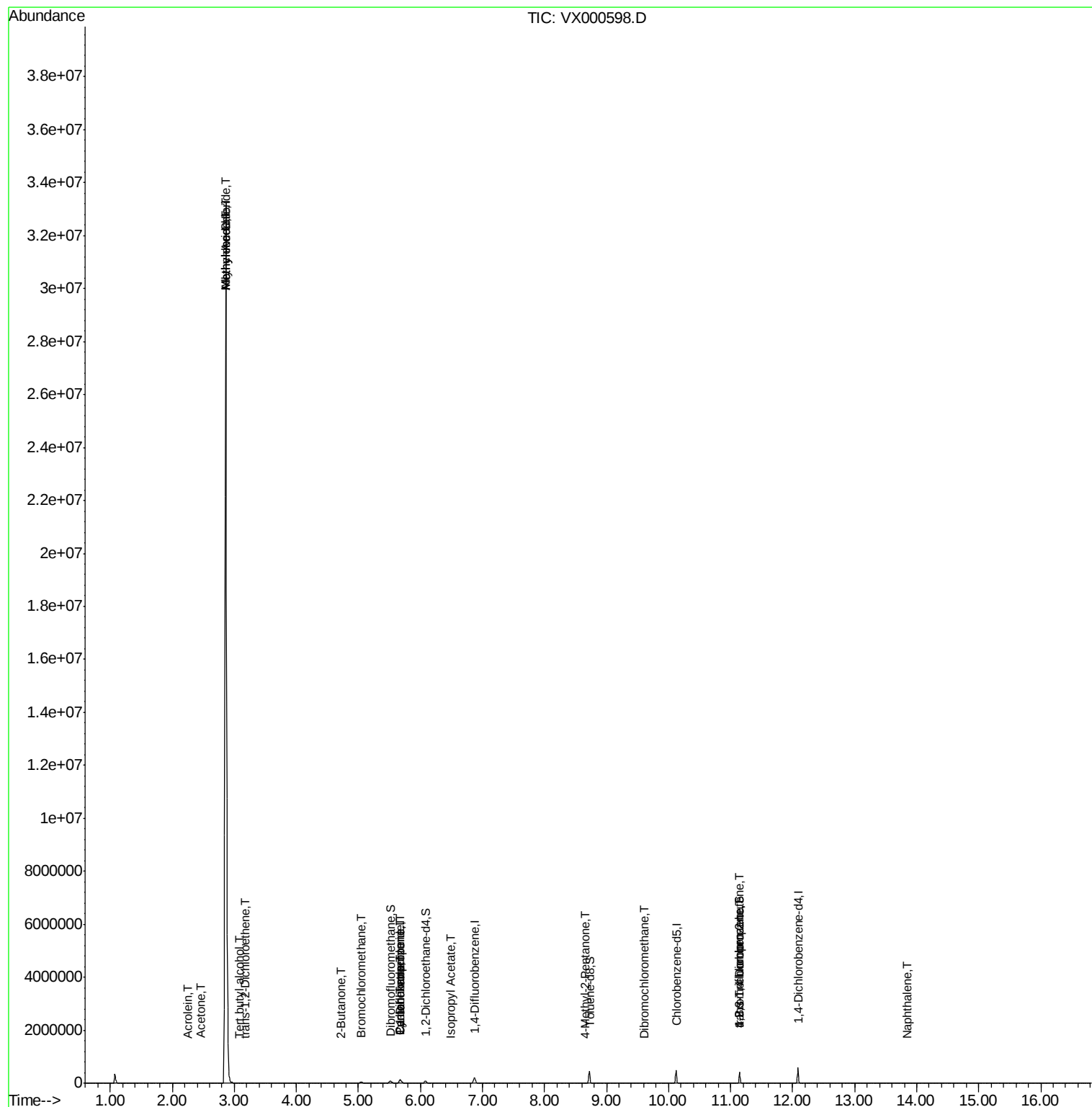
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.71	64	114	Below Cal	#	44
11) Tert butyl alcohol	3.09	59	201	0.373	ug/l #	72
13) Acrolein	2.25	56	37	14.781	ug/l #	1
14) Allyl chloride	2.86	41	473264	206.500	ug/l #	24
16) Acetone	2.45	43	8328	6.396	ug/l	98
18) Methyl Acetate	2.86	43	54861	20.099	ug/l #	88
20) Methylene Chloride	2.86	84	15470729	10287.587	ug/l	86
21) trans-1,2-Dichloroethene	3.17	96	416	0.287	ug/l #	86
25) 2-Butanone	4.73	43	1335	0.912	ug/l	91
28) Bromochloromethane	5.04	49	23211	22.036	ug/l	99
31) Cyclohexane	5.67	56	3084	1.562	ug/l #	16
36) 1,1-Dichloropropene	5.67	75	9693	5.091	ug/l #	48
38) Carbon Tetrachloride	5.67	117	11705	5.860	ug/l #	14
43) Isopropyl Acetate	6.49	43	1444	0.373	ug/l #	88
51) 4-Methyl-2-Pentanone	8.66	43	1038	0.346	ug/l #	60
60) Dibromochloromethane	9.60	129	64	4.148	ug/l #	12
74) N-amyl acetate	6.49	43	1444	Below Cal	#	92
76) 1,2,3-Trichloropropane	11.15	75	52534	23.114	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.15	75	52534	74.833	ug/l #	9
95) Naphthalene	13.85	128	5005	0.579	ug/l	97

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

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QLast Update : Wed Mar 21 04:52:42 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

Instrument :

MSVOA_X

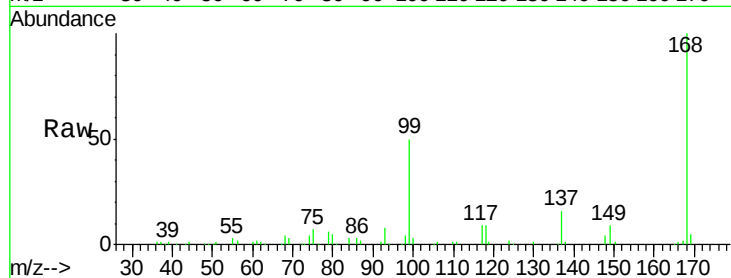
ClientSampled :

Tot Ion:168 Resp: 119901

Ion Ratio Lower Upper

168 100

99 49.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.68

40000

30000

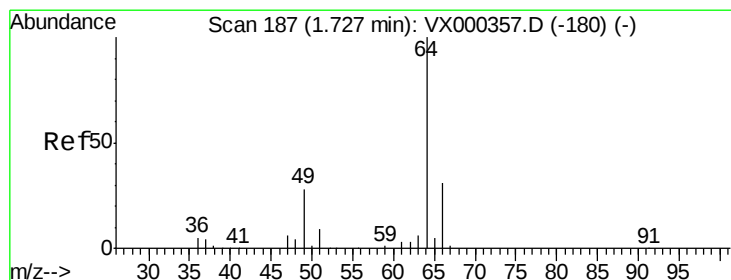
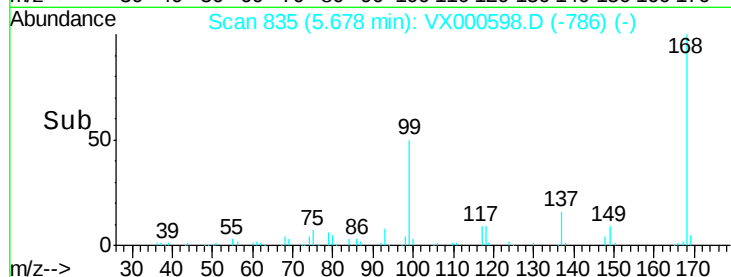
20000

10000

0

5.60 5.70 5.80

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX000598.D

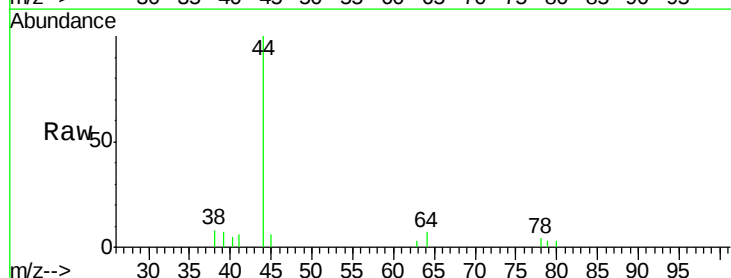
Acq: 31 Mar 2018 17:25

Tgt Ion: 64 Resp: 114

Ion Ratio Lower Upper

64 100

66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

150

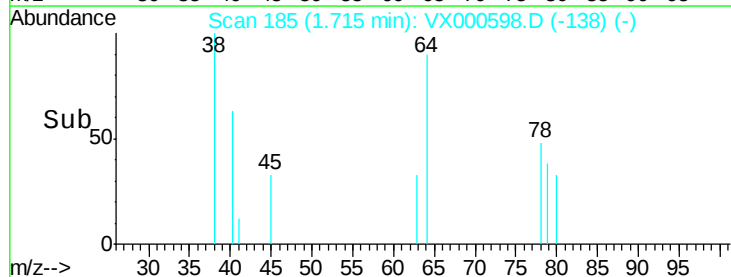
100

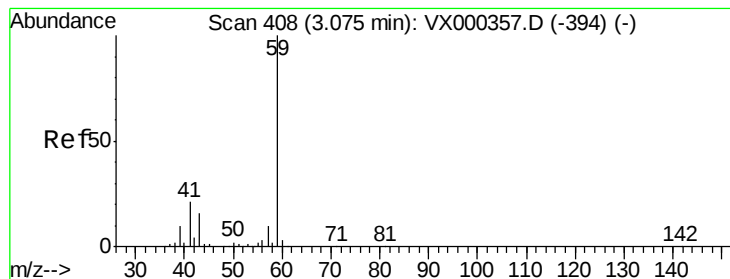
50

0

1.70 1.71 1.72 1.73

Time-->



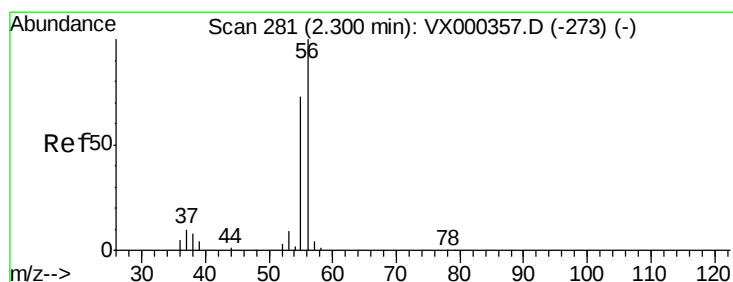
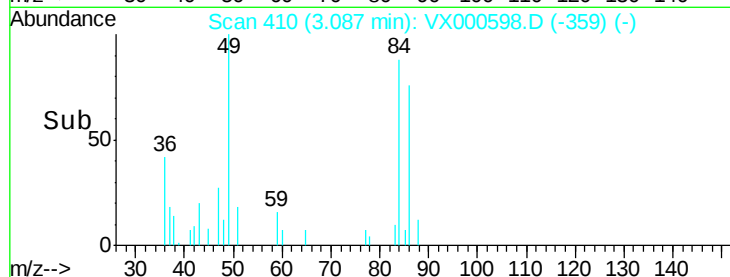
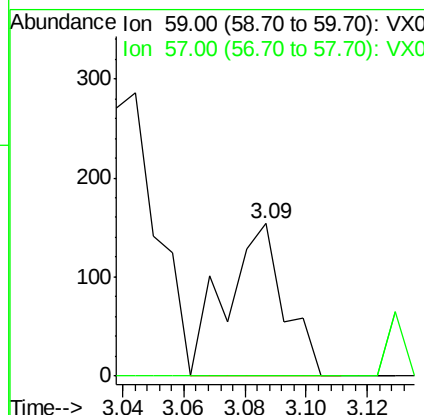
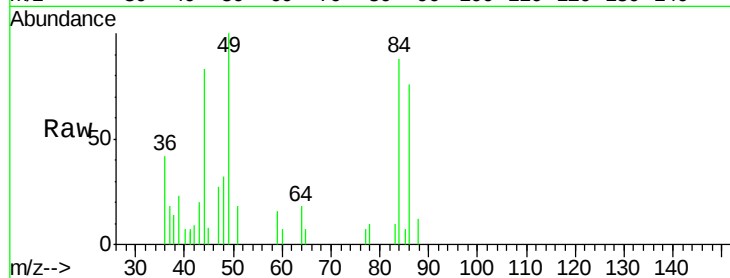


#11

Tert butyl alcohol
 Concen: 0.373 ug/l
 RT: 3.09 min Scan# 410
 Delta R.T. 0.01 min
 Lab File: VX000598.D
 Acq: 31 Mar 2018 17:25

Instrument :
 MSVOA_X
 ClientSampled :

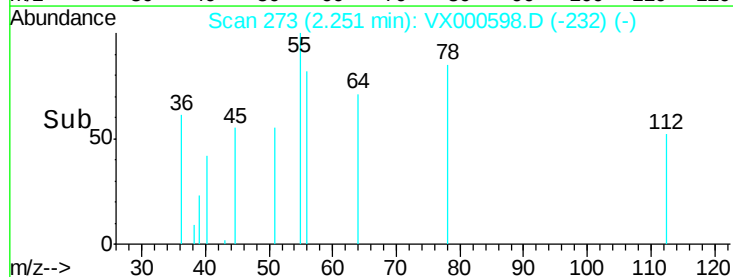
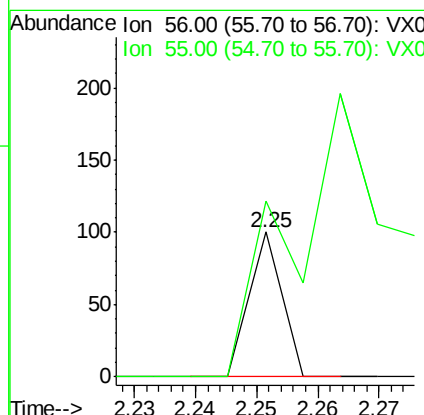
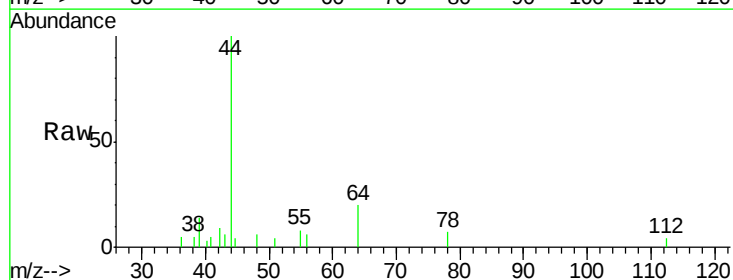
Tot Ion: 59 Resp: 201
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

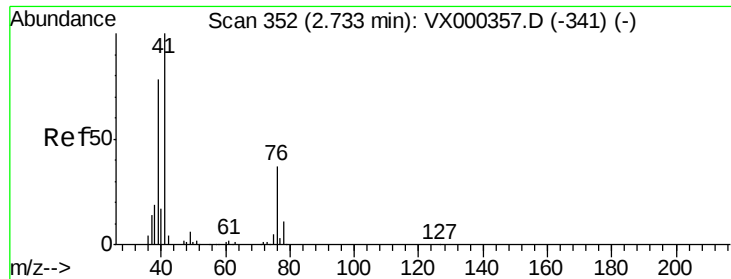


#13

Acrolein
 Concen: 14.781 ug/l
 RT: 2.25 min Scan# 273
 Delta R.T. -0.05 min
 Lab File: VX000598.D
 Acq: 31 Mar 2018 17:25

Tgt Ion: 56 Resp: 37
 Ion Ratio Lower Upper
 56 100
 55 670.3 58.8 88.2#





#14

Allvl chloride

Concen: 206.500 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.13 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

Instrument :

MSVOA_X

ClientSampleId :

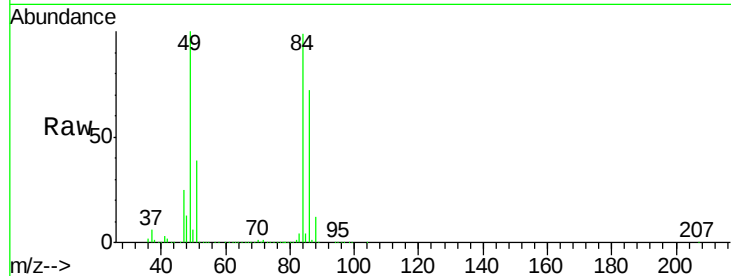
Tot Ion: 41 Resp: 473264

Ion Ratio Lower Upper

41 100

39 1.7 57.6 86.4#

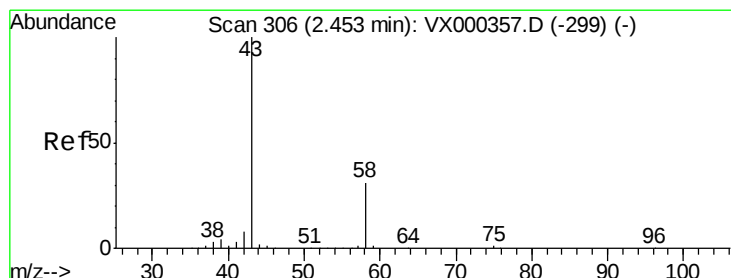
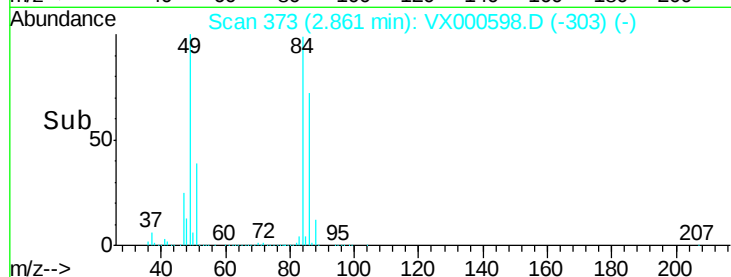
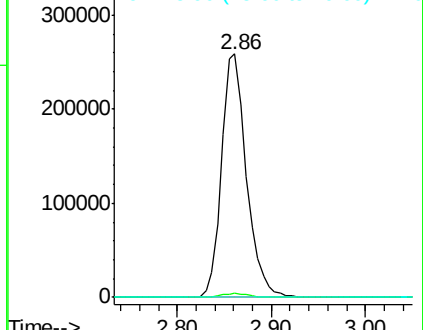
76 0.0 27.3 40.9#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0



#16

Acetone

Concen: 6.396 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000598.D

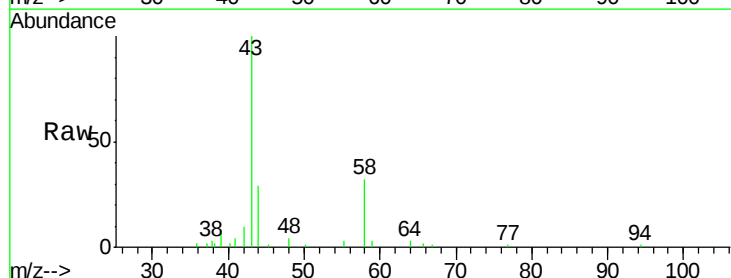
Acq: 31 Mar 2018 17:25

Tgt Ion: 43 Resp: 8328

Ion Ratio Lower Upper

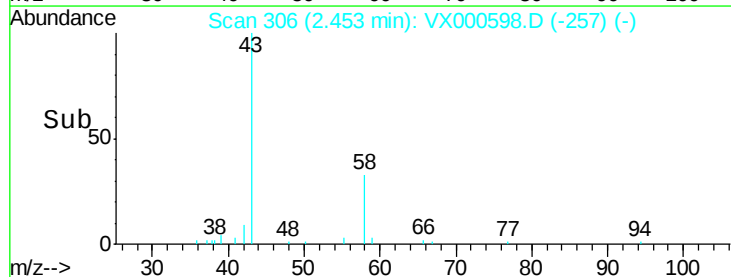
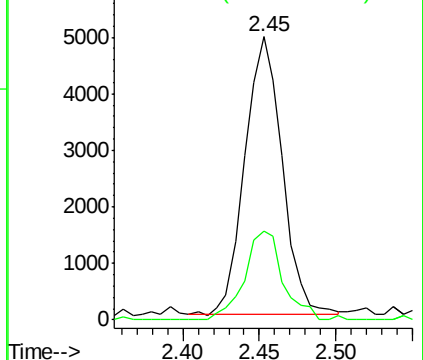
43 100

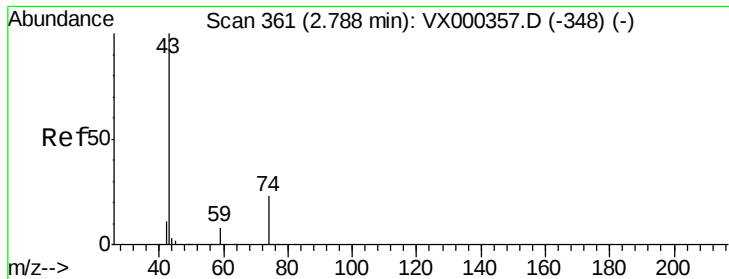
58 32.2 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

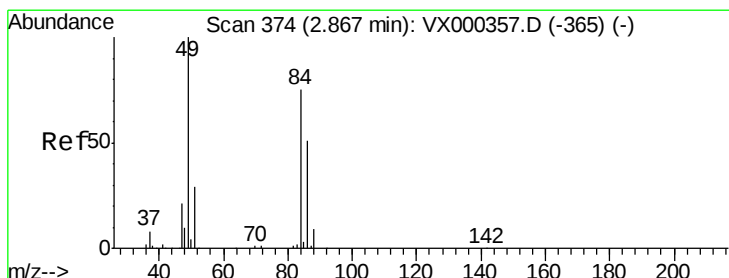
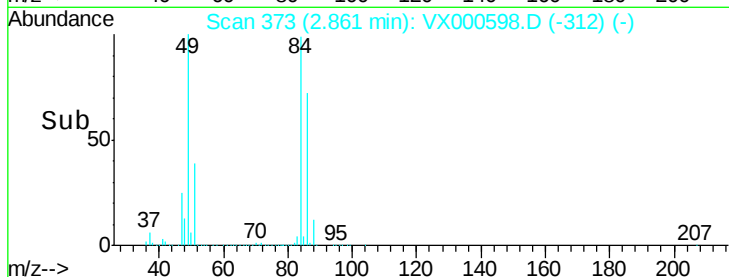
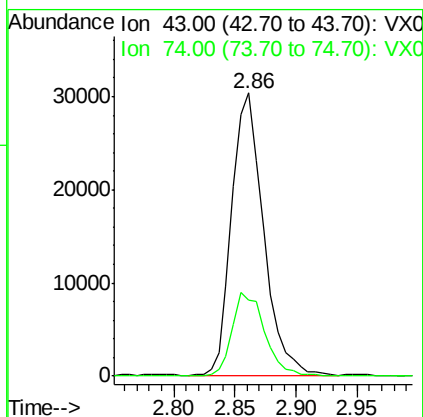
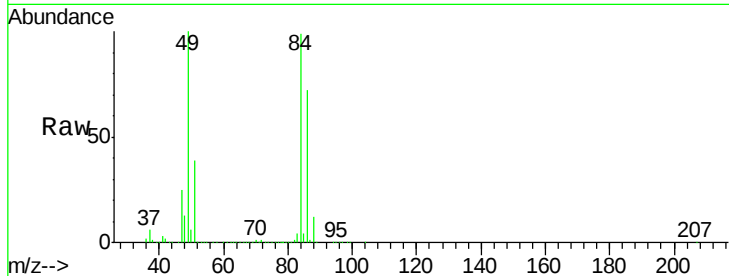




#18
Methyl Acetate
Concen: 20.099 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.07 min
Lab File: VX000598.D
Acq: 31 Mar 2018 17:25

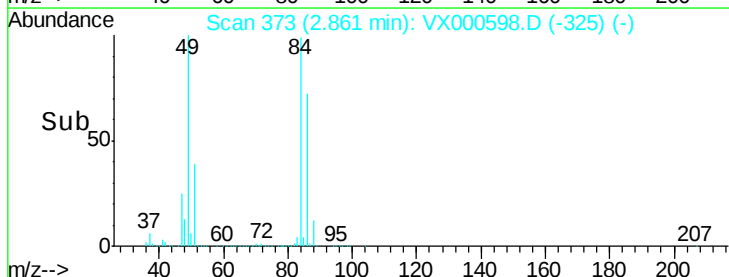
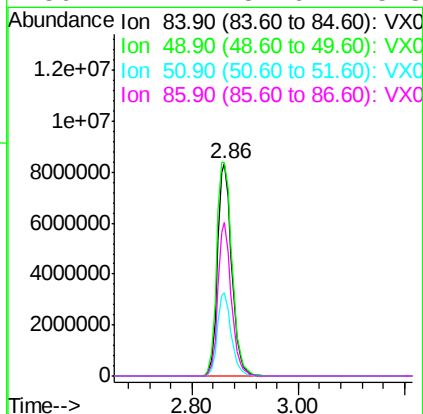
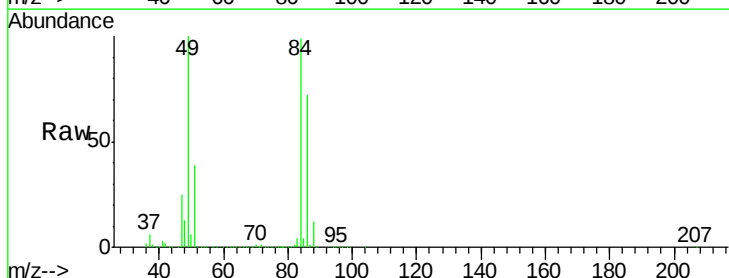
Instrument :
MSVOA_X
ClientSampleId :

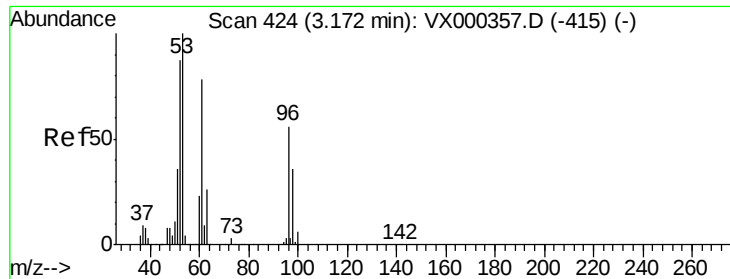
Tot Ion: 43 Resp: 54861
Ion Ratio Lower Upper
43 100
74 30.1 19.4 29.2#



#20
Methylene Chloride
Concen: 10287.587 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.01 min
Lab File: VX000598.D
Acq: 31 Mar 2018 17:25

Tgt Ion: 84 Resp:15470729
Ion Ratio Lower Upper
84 100
49 100.7 100.6 151.0
51 39.2 31.6 47.4
86 72.2 52.6 78.8





#21

trans-1,2-Dichloroethene

Concen: 0.287 ug/l

RT: 3.17 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

Instrument :

MSVOA_X

ClientSampled :

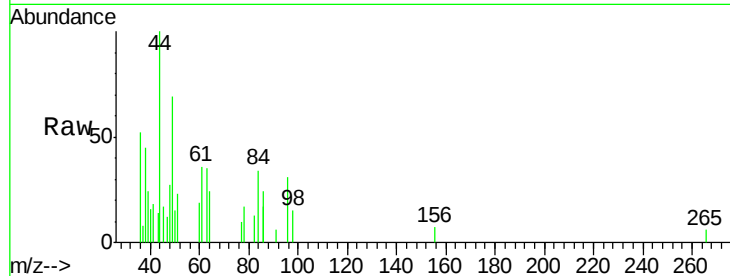
Tot Ion: 96 Resp: 416

Ion Ratio Lower Upper

96 100

61 117.7 104.0 156.0

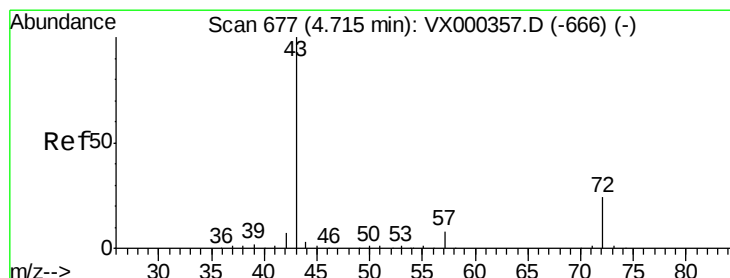
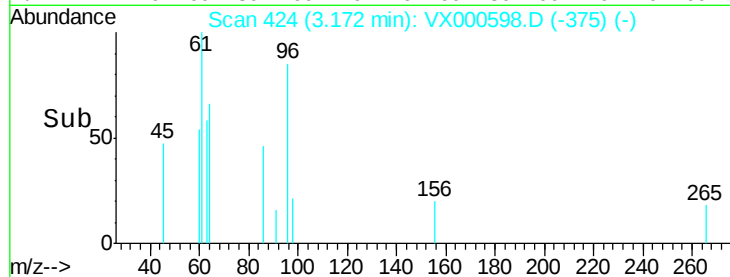
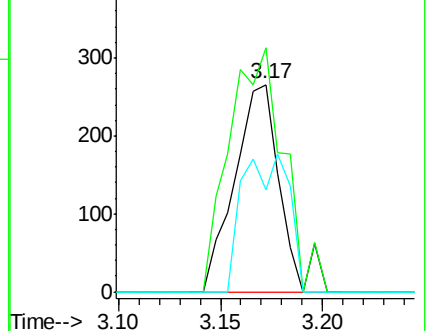
98 48.9 52.1 78.1#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.912 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX000598.D

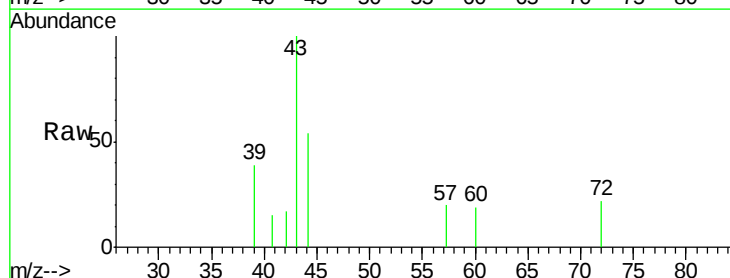
Acq: 31 Mar 2018 17:25

Tgt Ion: 43 Resp: 1335

Ion Ratio Lower Upper

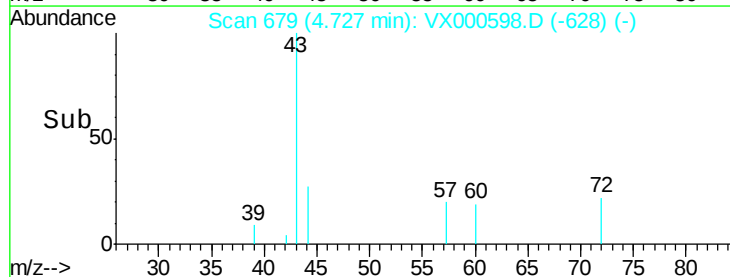
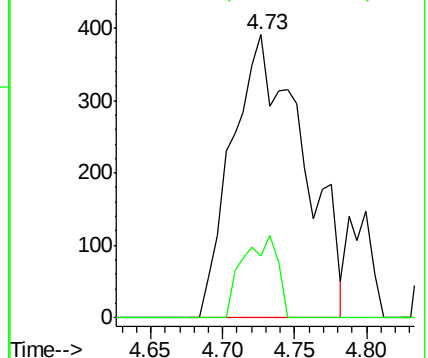
43 100

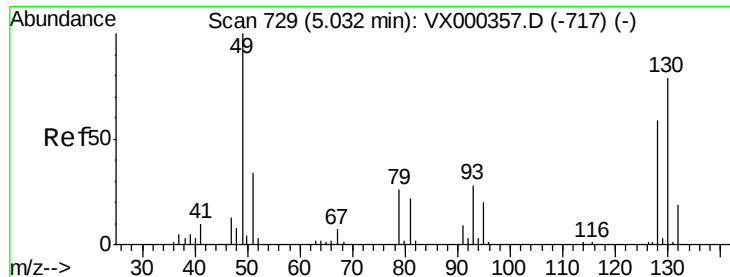
72 21.7 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#28

Bromochloromethane

Concen: 22.036 ug/l

RT: 5.04 min Scan# 731

Delta R.T. 0.01 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

Instrument :

MSVOA_X

ClientSampleId :

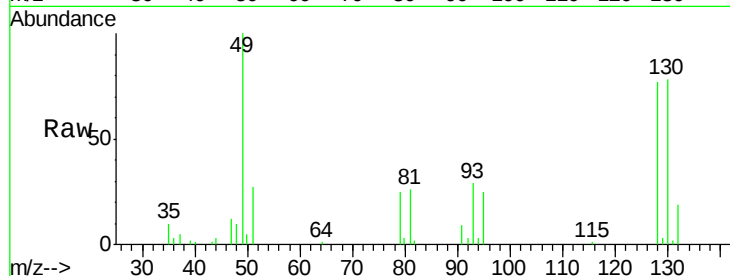
Tot Ion: 49 Resp: 23211

Ion Ratio Lower Upper

49 100

129 1.8 0.0 5.0

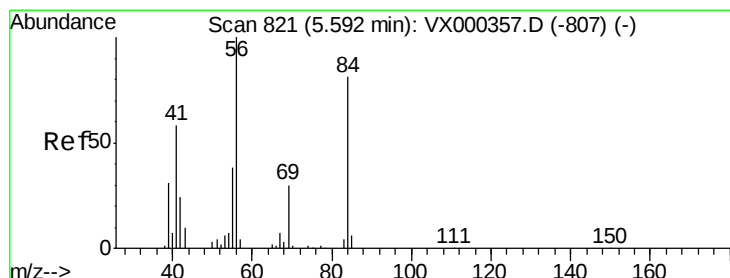
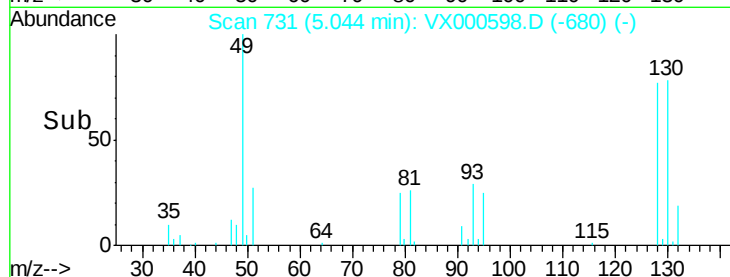
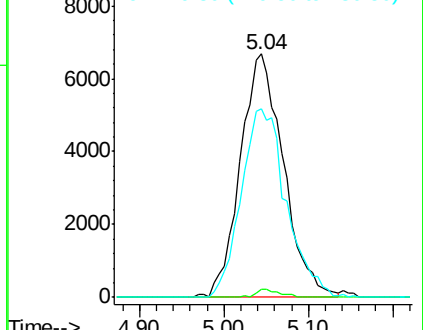
130 81.2 64.0 96.0



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.562 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.08 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

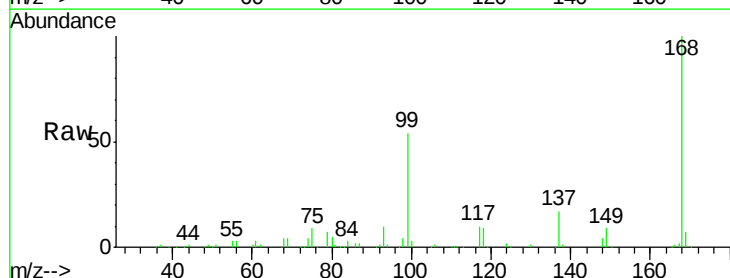
Tgt Ion: 56 Resp: 3084

Ion Ratio Lower Upper

56 100

69 136.2 23.4 35.0#

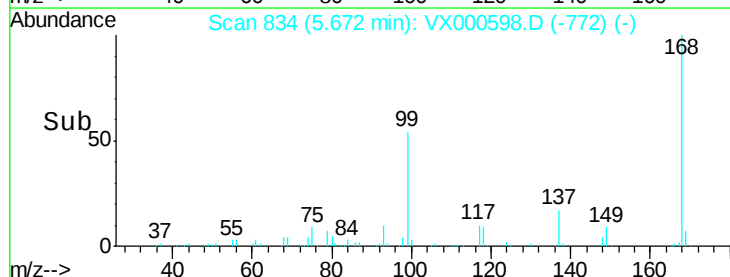
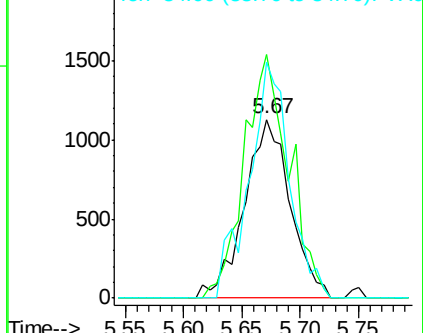
84 132.0 71.0 106.4#

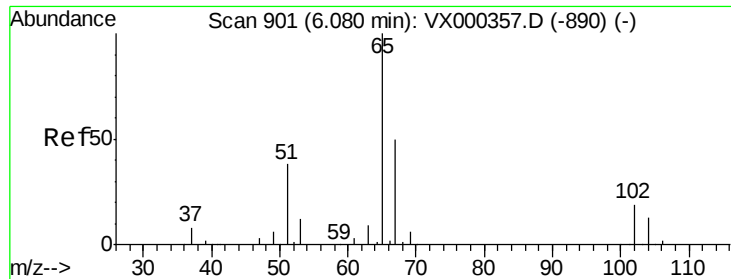


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.210 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.00 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

Instrument :

MSVOA_X

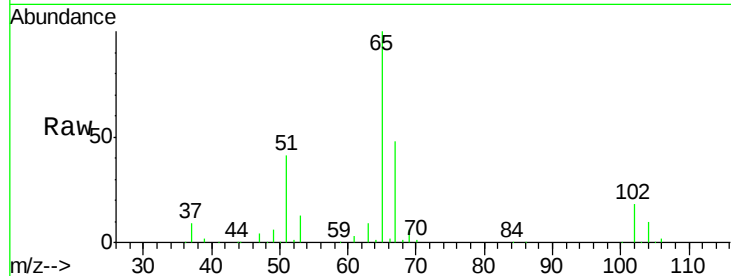
ClientSampleId :

Tot Ion: 65 Resp: 81716

Ion Ratio Lower Upper

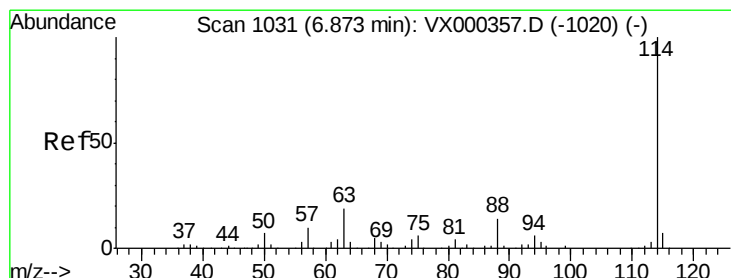
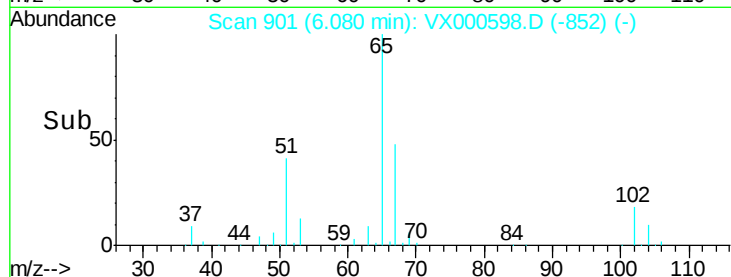
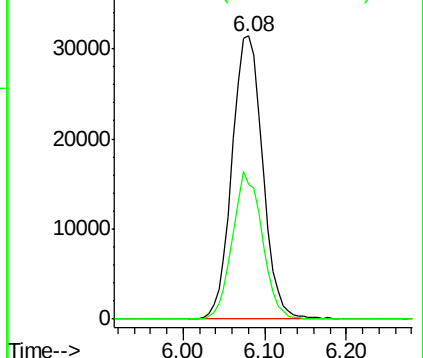
65 100

67 50.2 0.0 103.2



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: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

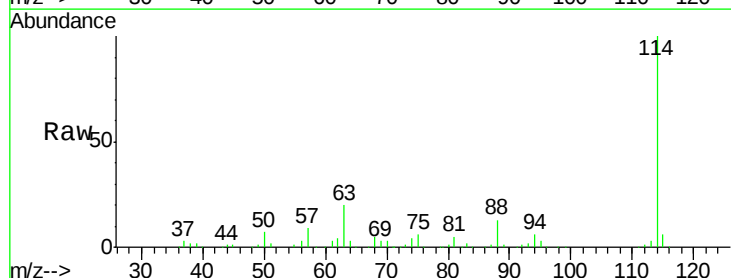
Tgt Ion: 114 Resp: 203264

Ion Ratio Lower Upper

114 100

63 19.9 0.0 38.4

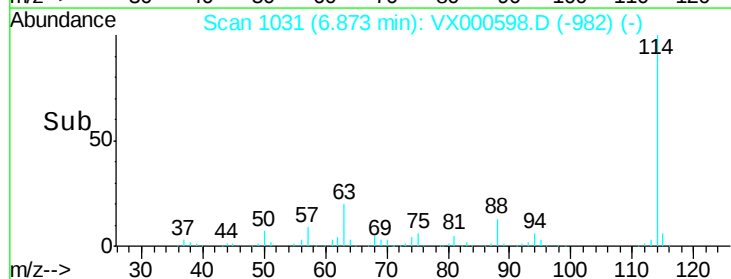
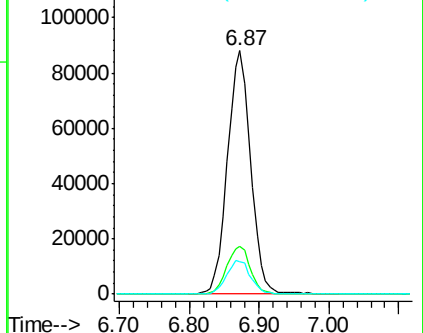
88 13.4 0.0 27.0

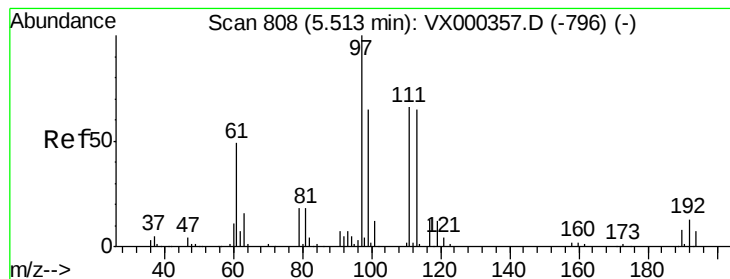


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.171 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

Instrument :

MSVOA_X

ClientSampleId :

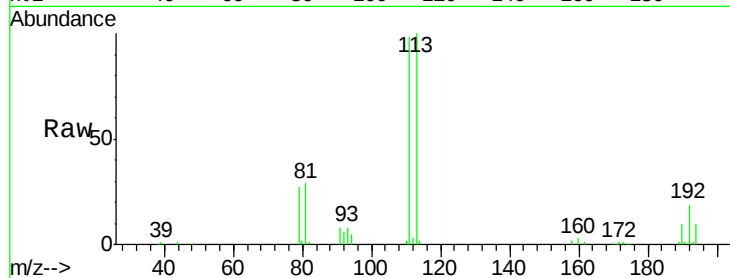
Tot Ion:113 Resp: 64256

Ion Ratio Lower Upper

113 100

111 101.5 82.4 123.6

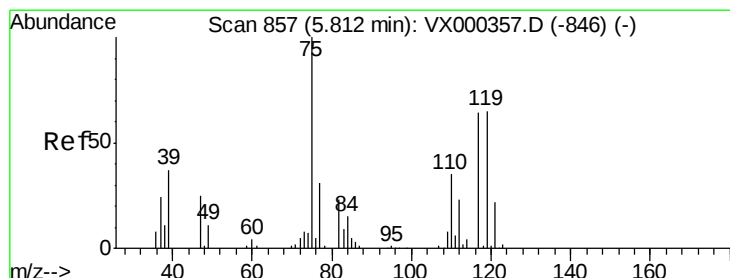
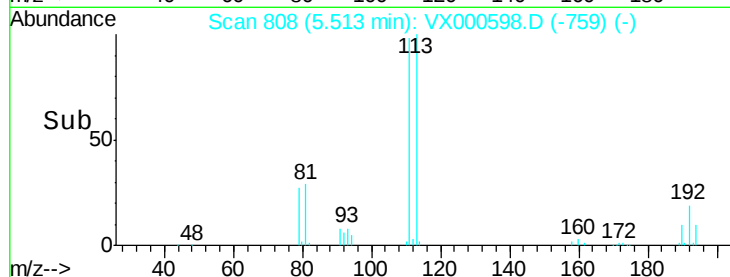
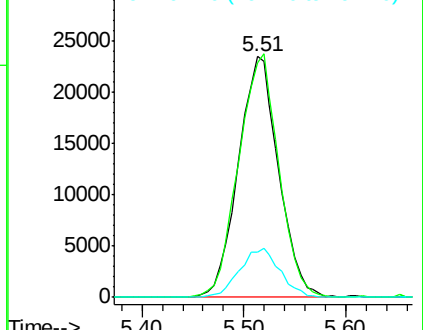
192 20.5 15.8 23.6



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: 5.091 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.14 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

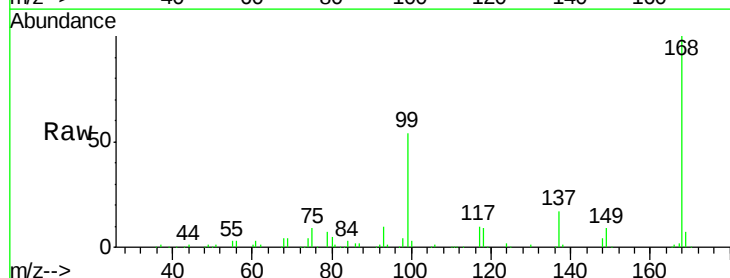
Tgt Ion: 75 Resp: 9693

Ion Ratio Lower Upper

75 100

110 6.6 17.9 53.7#

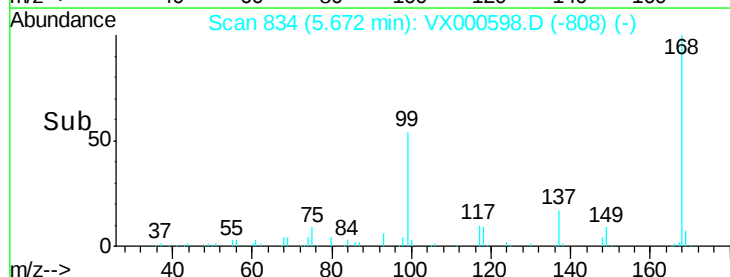
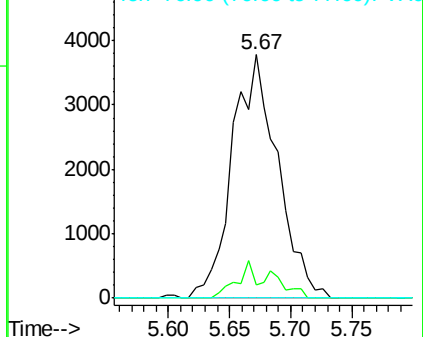
77 0.0 24.0 36.0#

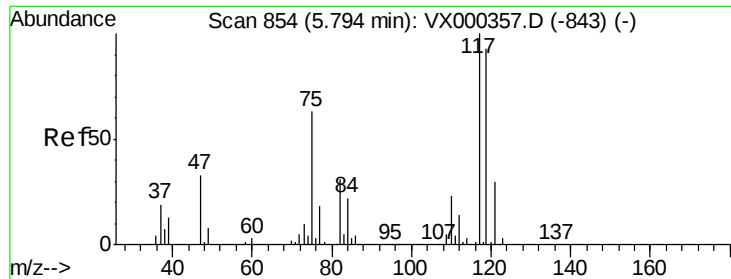


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.860 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

Instrument :

MSVOA_X

ClientSampled :

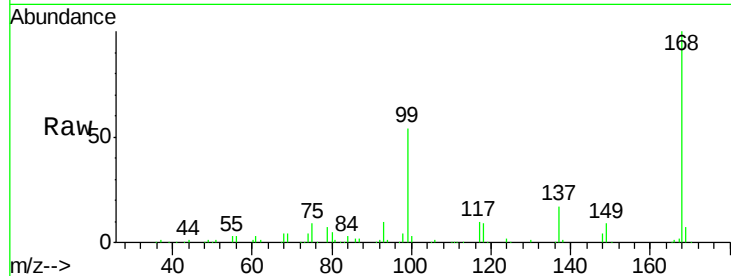
Tot Ion:117 Resp: 11705

Ion Ratio Lower Upper

117 100

119 2.8 77.4 116.2#

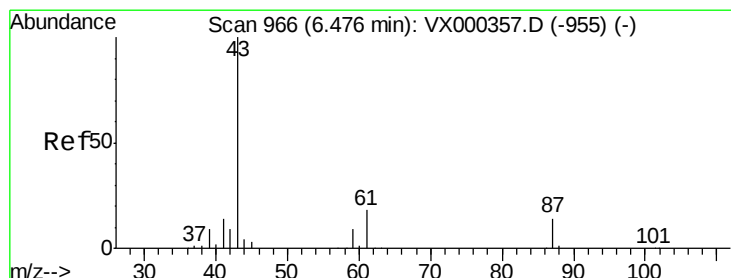
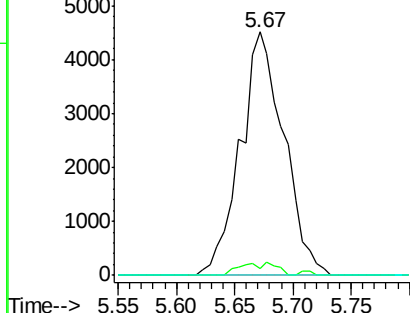
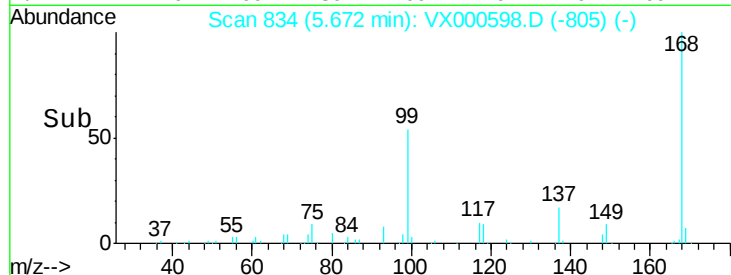
121 0.0 24.8 37.2#



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



#43

Isopropyl Acetate

Concen: 0.373 ug/l

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

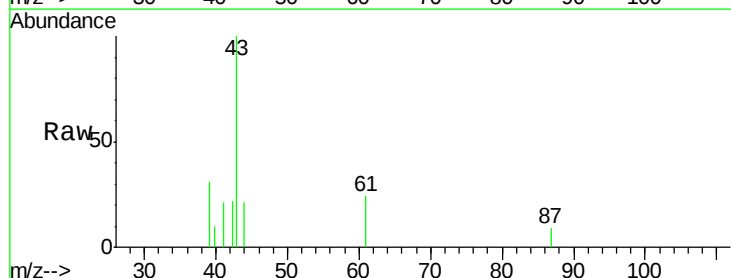
Tgt Ion: 43 Resp: 1444

Ion Ratio Lower Upper

43 100

61 21.7 14.4 21.6#

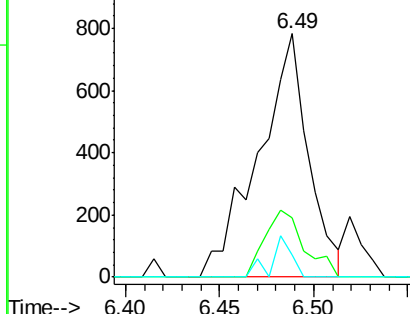
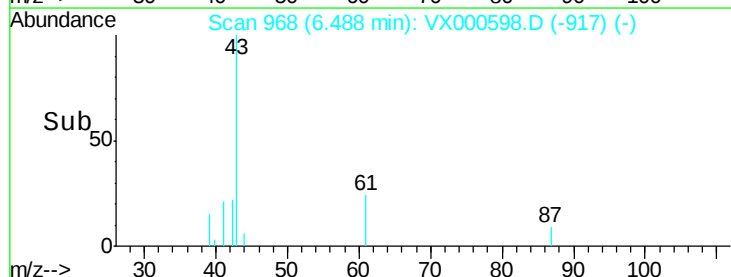
87 6.7 11.0 16.4#

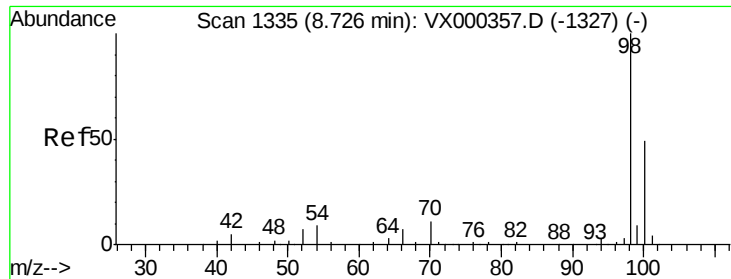


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

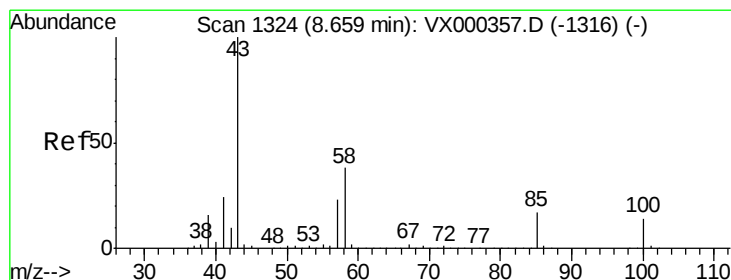
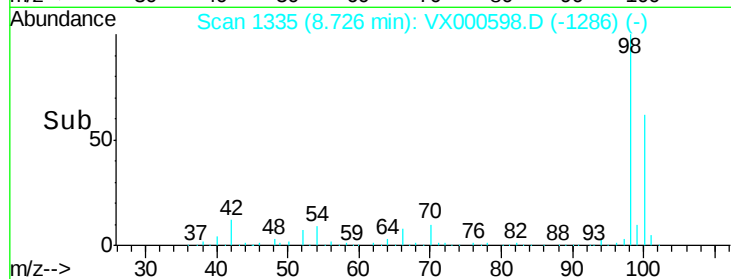
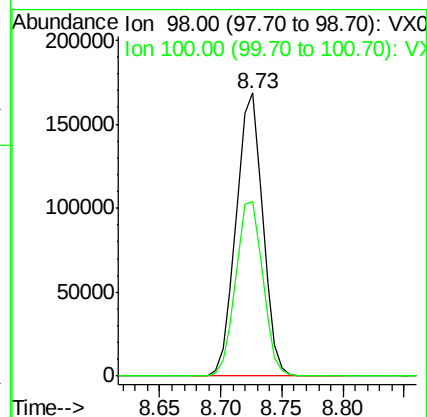
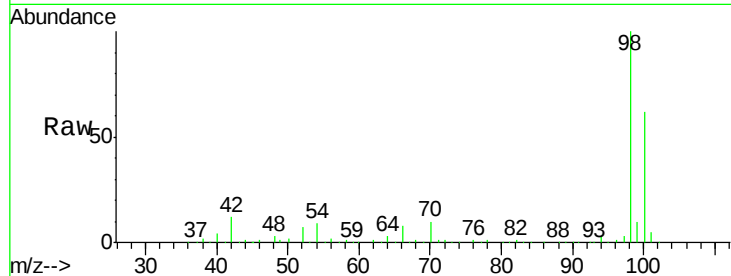




#50
Toluene-d8
Concen: 47.937 ug/l
RT: 8.73 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VX000598.D
Acq: 31 Mar 2018 17:25

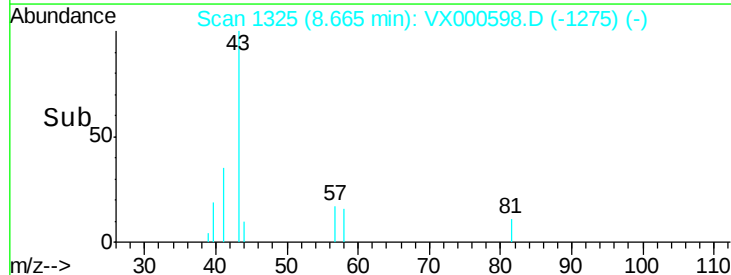
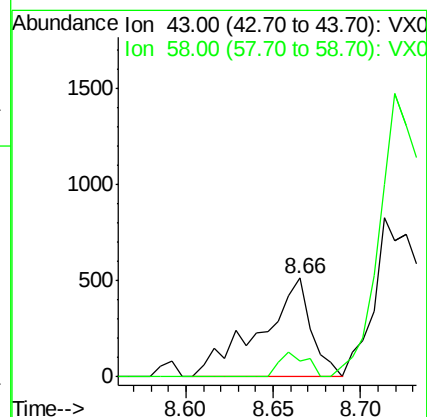
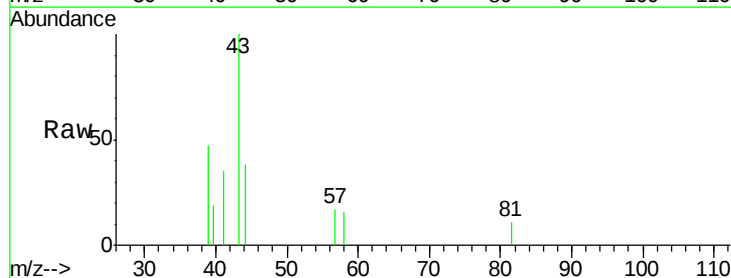
Instrument :
MSVOA_X
ClientSampleId :

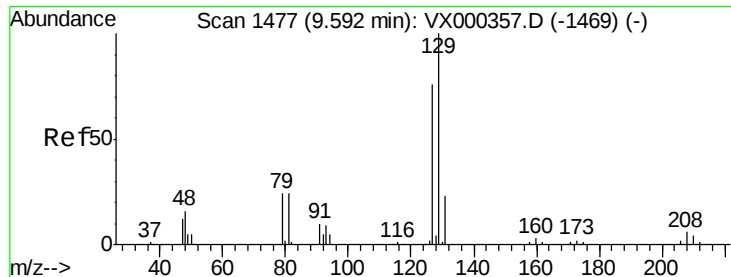
Tot Ion: 98 Resp: 254274
Ion Ratio Lower Upper
98 100
100 62.8 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.346 ug/l
RT: 8.66 min Scan# 1325
Delta R.T. 0.01 min
Lab File: VX000598.D
Acq: 31 Mar 2018 17:25

Tgt Ion: 43 Resp: 1038
Ion Ratio Lower Upper
43 100
58 13.7 30.3 45.5#





#60

Dibromochloromethane

Concen: 4.148 ug/l

RT: 9.60 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

Instrument :

MSVOA_X

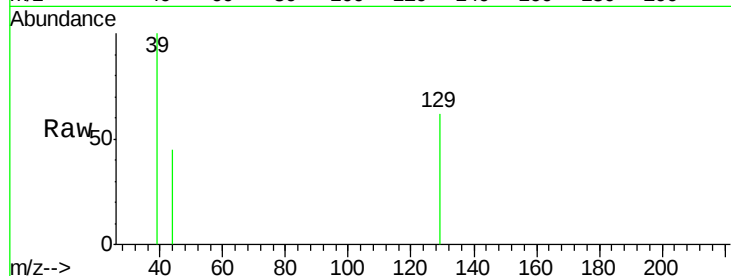
ClientSampleId :

Tot Ion:129 Resp: 64

Ion Ratio Lower Upper

129 100

127 0.0 37.9 113.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.60

100

80

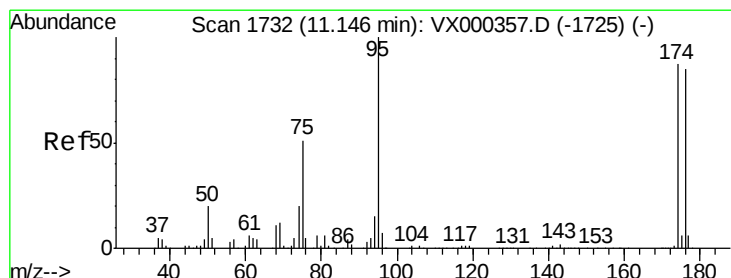
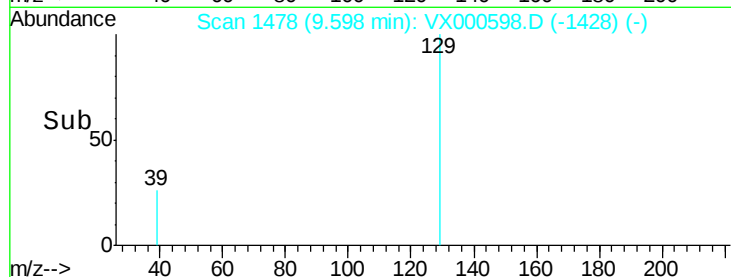
60

40

20

0

Time-->



#62

4-Bromofluorobenzene

Concen: 41.099 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

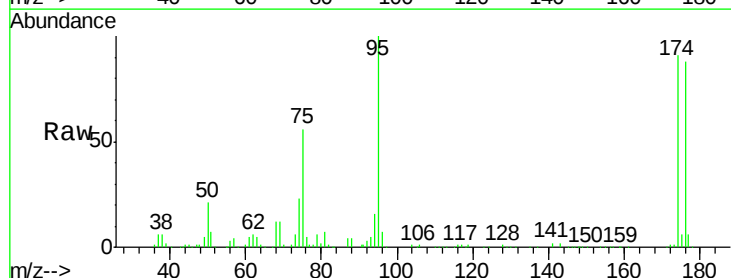
Tgt Ion: 95 Resp: 89309

Ion Ratio Lower Upper

95 100

174 91.4 0.0 173.6

176 89.4 0.0 164.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

100000

80000

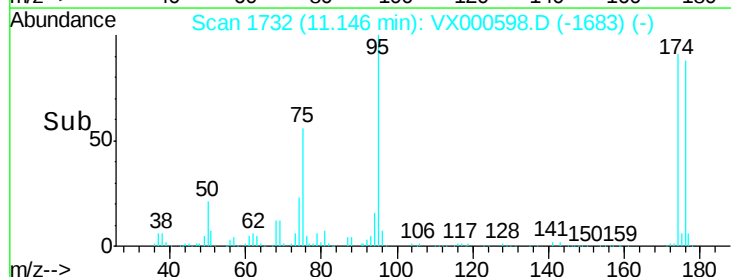
60000

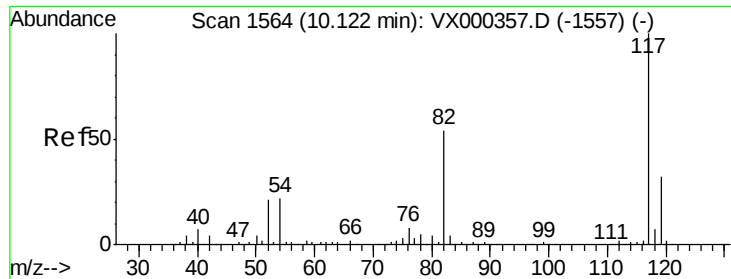
40000

20000

0

Time-->

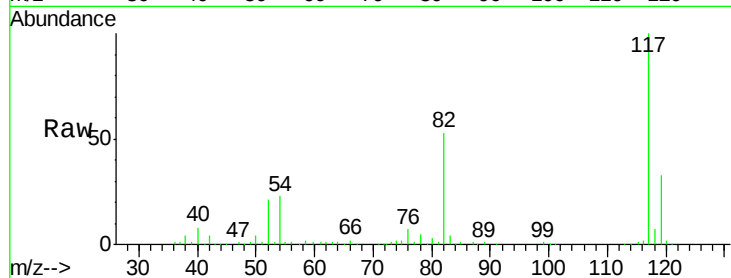




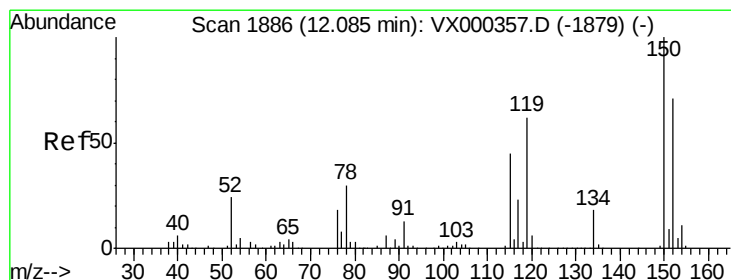
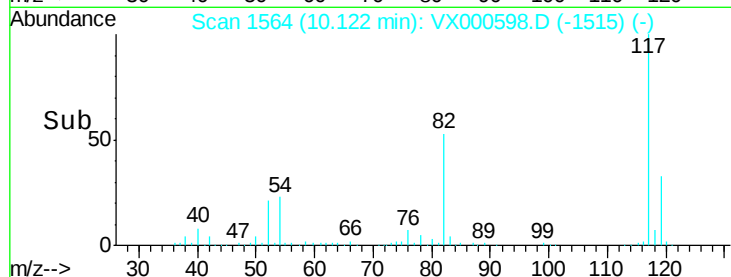
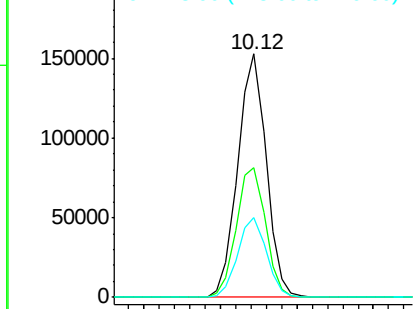
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000598.D
Acq: 31 Mar 2018 17:25

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 196897
Ion Ratio Lower Upper
117 100
82 53.4 43.8 65.8
119 32.9 24.9 37.3

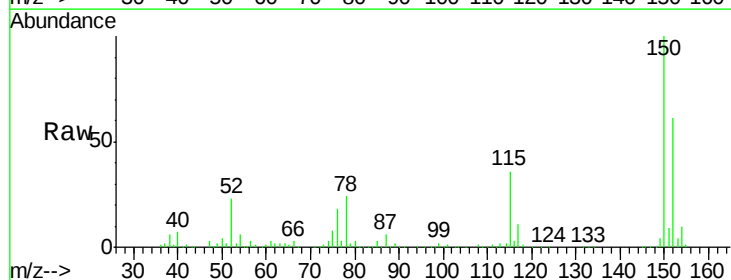


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

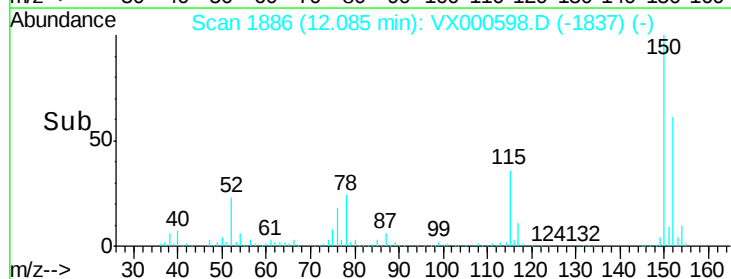
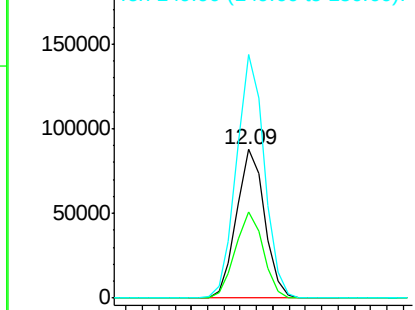


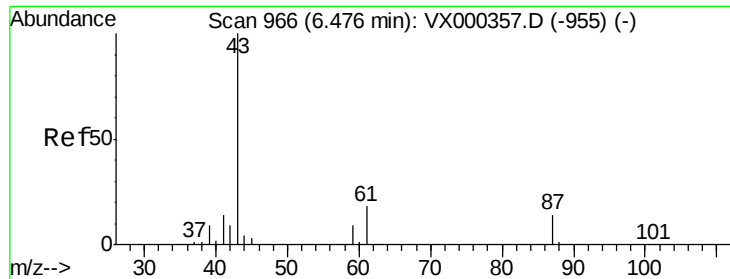
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX000598.D
Acq: 31 Mar 2018 17:25

Tgt Ion:152 Resp: 105756
Ion Ratio Lower Upper
152 100
115 57.5 39.8 119.3
150 162.1 0.0 344.4



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





#74

N-amvl acetate

Concen: Below Cal

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000598.D

Acq: 31 Mar 2018 17:25

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1444

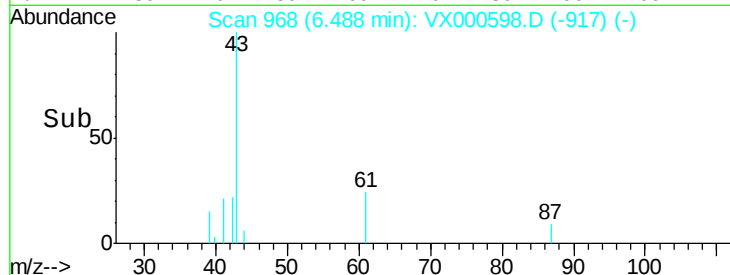
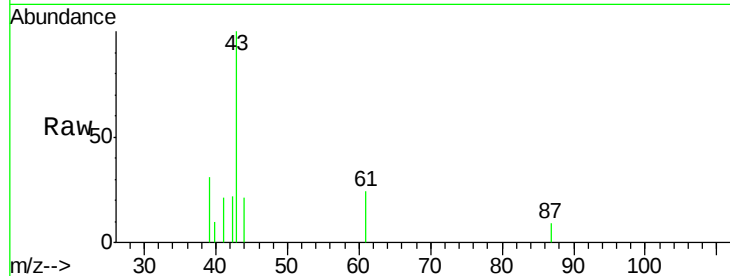
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 21.7 14.4 21.6#

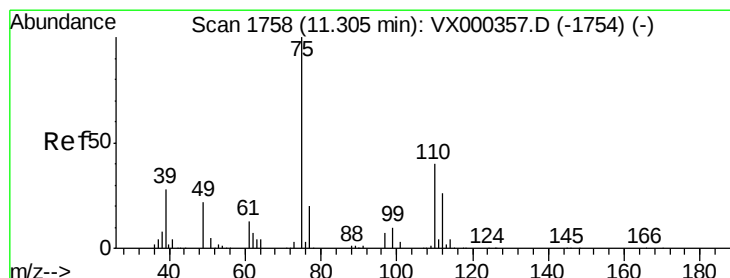
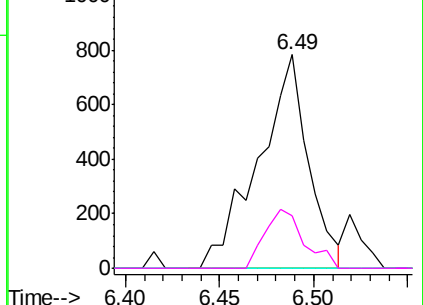


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.114 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000598.D

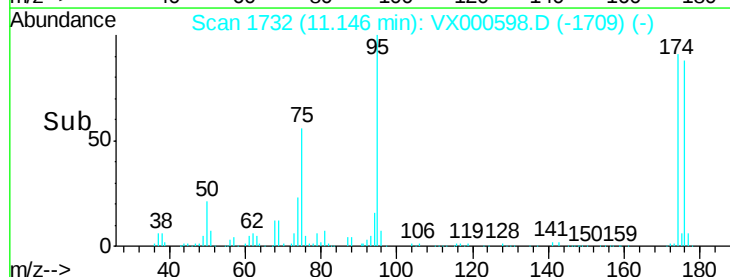
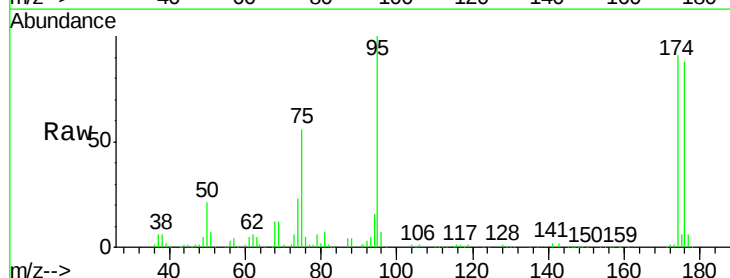
Acq: 31 Mar 2018 17:25

Tgt Ion: 75 Resp: 52534

Ion Ratio Lower Upper

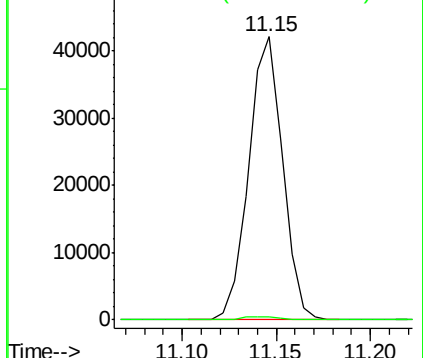
75 100

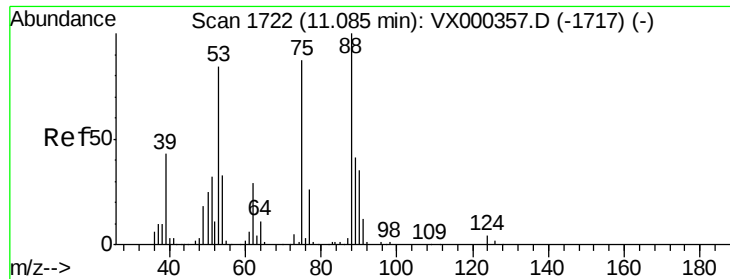
77 1.2 21.4 64.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

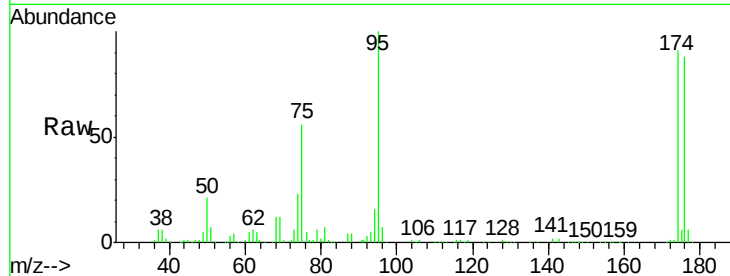




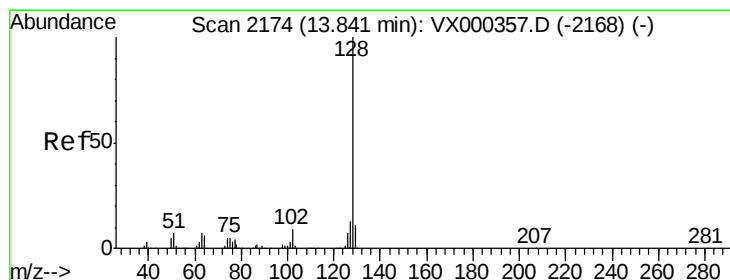
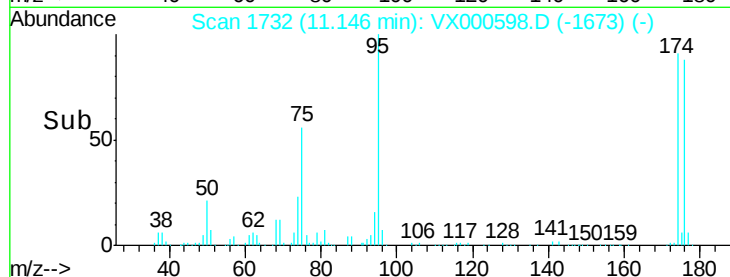
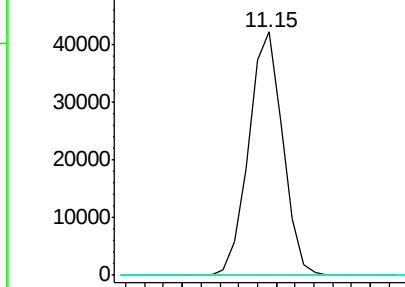
#81
trans-1,4-Dichloro-2-butene
Concen: 74.833 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.06 min
Lab File: VX000598.D
Acq: 31 Mar 2018 17:25

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 75 Resp: 52534
Ion Ratio Lower Upper
75 100
53 0.0 80.7 121.1#
89 0.1 39.4 59.0#

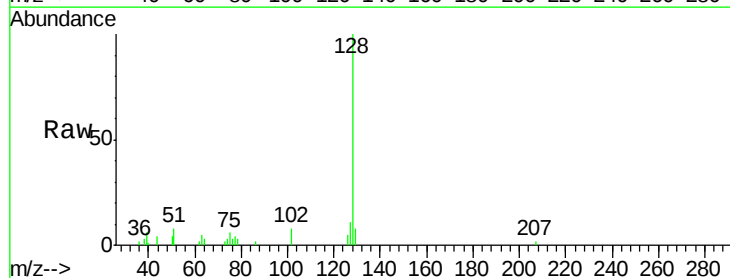


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95
Naphthalene
Concen: 0.579 ug/l
RT: 13.85 min Scan# 2175
Delta R.T. 0.01 min
Lab File: VX000598.D
Acq: 31 Mar 2018 17:25

Tgt Ion: 128 Resp: 5005
Ion Ratio Lower Upper
128 100
127 12.0 10.6 15.8
129 9.8 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

