

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX032718\
 Data File : VX000471.D
 Acq On : 27 Mar 2018 20:45
 Operator : JC/MD
 Sample : J2056-02 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 22250-51

Quant Time: Mar 28 06:55:27 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	103944	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	186114	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	176503	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	87805	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	76564	56.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.86%	
35) Dibromofluoromethane	5.51	113	59865	51.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.10%	
50) Toluene-d8	8.73	98	233961	48.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.34%	
62) 4-Bromofluorobenzene	11.15	95	77546	39.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.58%	

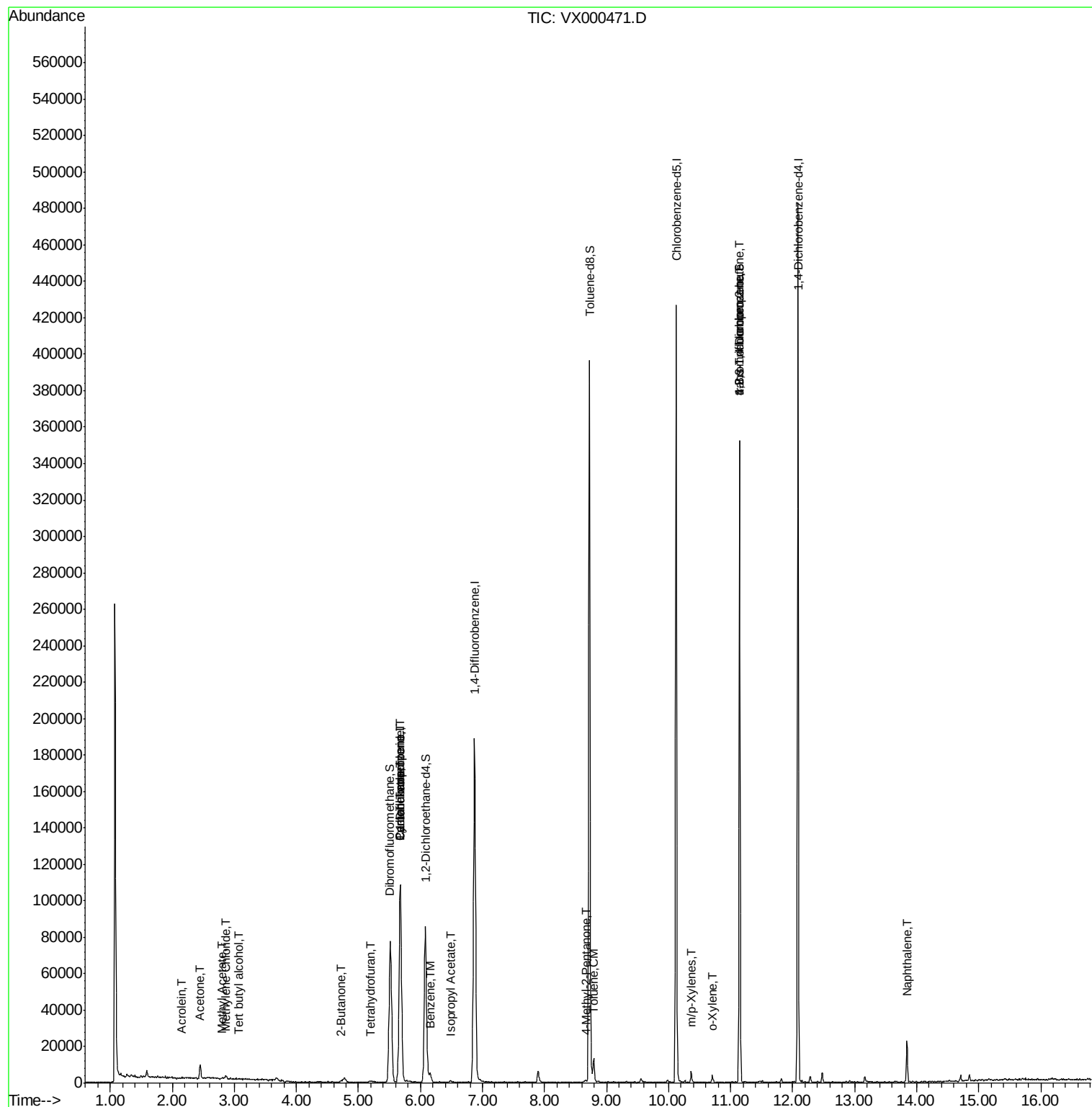
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	308	Below Cal	#	44
11) Tert butyl alcohol	3.07	59	226	0.48	ug/l #	72
13) Acrolein	2.15	56	110	15.27	ug/l #	71
16) Acetone	2.45	43	7910	7.01	ug/l	94
18) Methyl Acetate	2.79	43	532	0.22	ug/l #	51
20) Methylene Chloride	2.87	84	774	0.59	ug/l #	75
25) 2-Butanone	4.73	43	1428	1.13	ug/l #	83
29) Tetrahydrofuran	5.18	42	459	0.59	ug/l #	45
31) Cyclohexane	5.68	56	2600	1.52	ug/l #	65
36) 1,1-Dichloropropene	5.67	75	8333	4.78	ug/l #	51
38) Carbon Tetrachloride	5.67	117	10347	5.66	ug/l #	17
40) Benzene	6.15	78	5450	1.08	ug/l	94
43) Isopropyl Acetate	6.48	43	1346	0.38	ug/l #	84
51) 4-Methyl-2-Pentanone	8.66	43	1365	0.50	ug/l #	65
52) Toluene	8.79	92	3340	0.94	ug/l	89
68) m/p-Xylenes	10.37	106	1368	0.52	ug/l	100
69) o-Xylene	10.70	106	892	0.35	ug/l	91
74) N-amyl acetate	6.48	43	1346	Below Cal	#	97
76) 1,2,3-Trichloropropane	11.15	75	44752	23.72	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.15	75	44752	76.78	ug/l #	9
95) Naphthalene	13.84	128	12601	1.76	ug/l	96

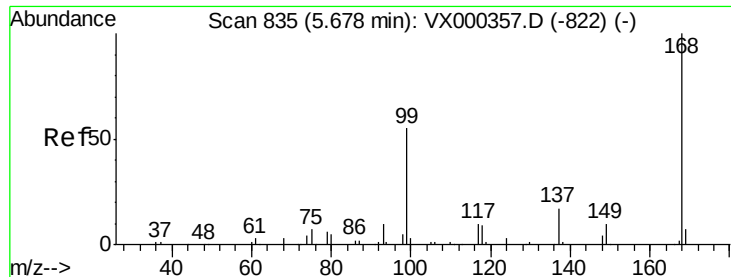
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 21 04:52:42 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: VX000471.D

Acq: 27 Mar 2018 20:45

Instrument :

MSVOA_X

ClientSampleId :

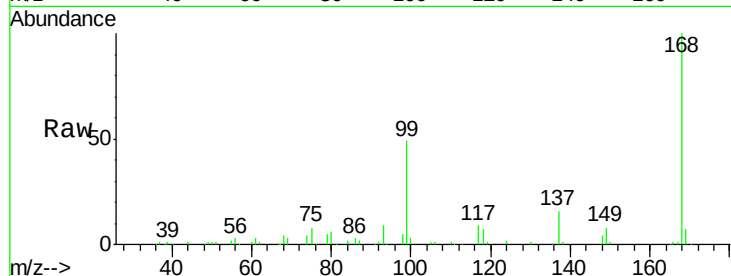
22250-51

Tgt Ion: 168 Resp: 103944

Ion Ratio Lower Upper

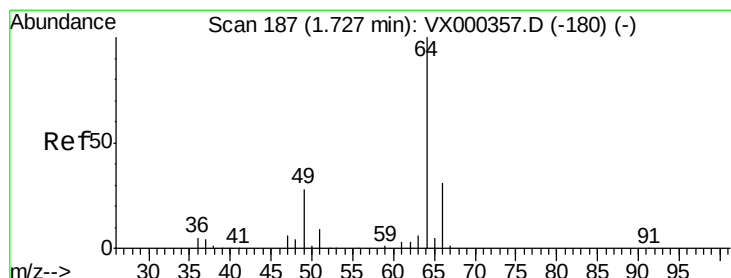
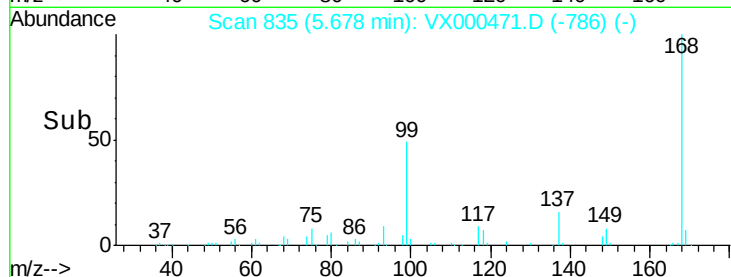
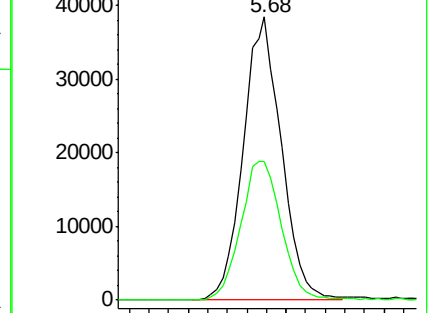
168 100

99 49.0 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX000471.D

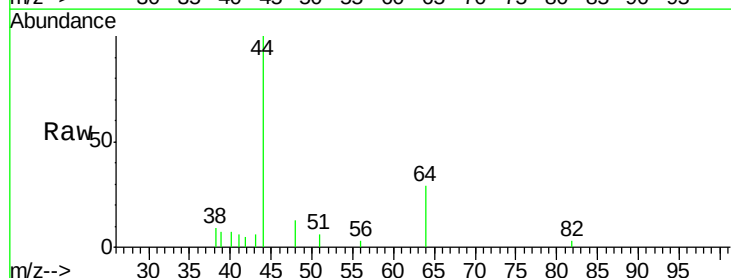
Acq: 27 Mar 2018 20:45

Tgt Ion: 64 Resp: 308

Ion Ratio Lower Upper

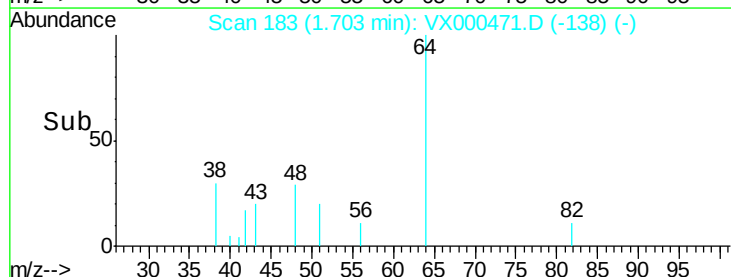
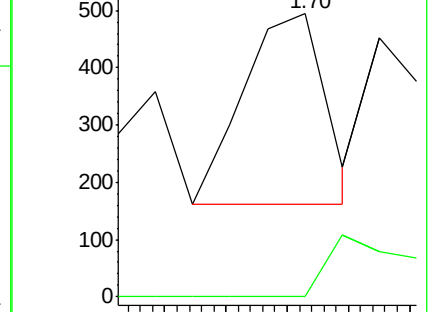
64 100

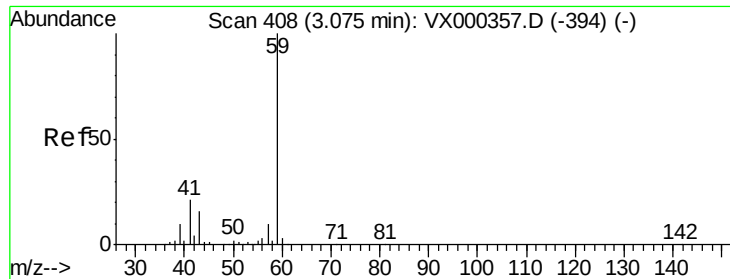
66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

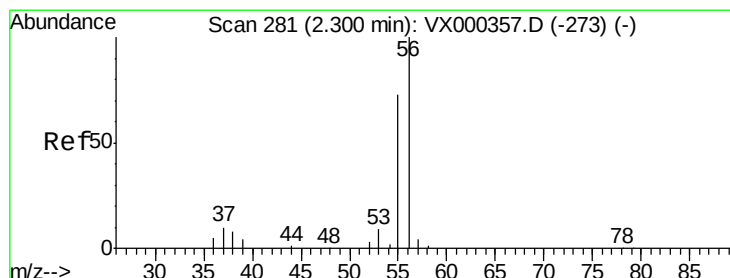
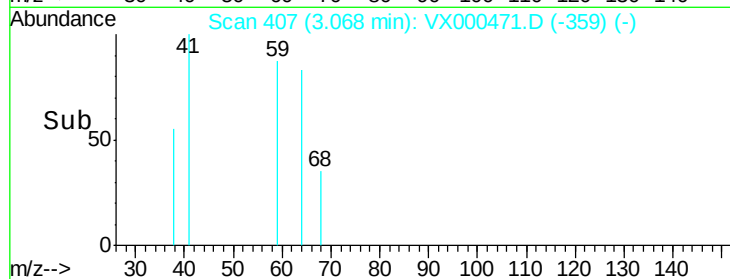
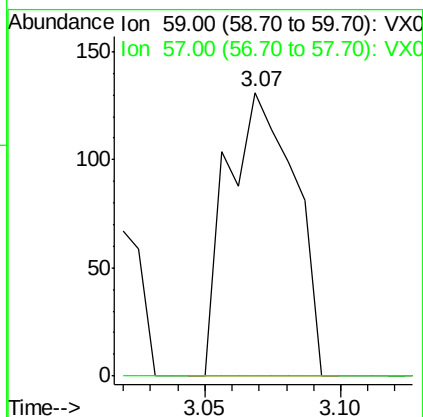
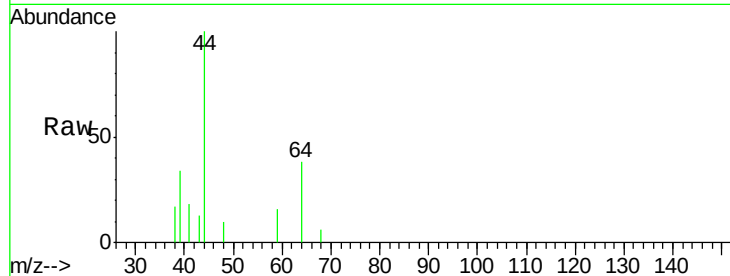




#11
Tert butyl alcohol
Concen: 0.48 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX000471.D
Acq: 27 Mar 2018 20:45

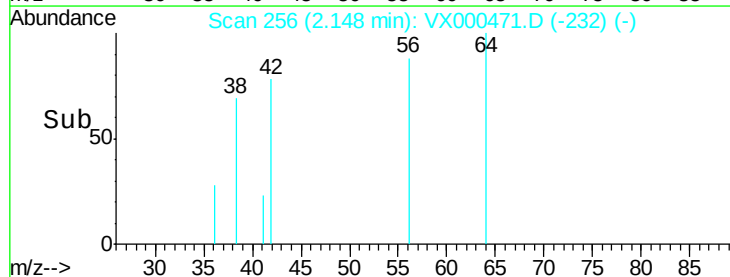
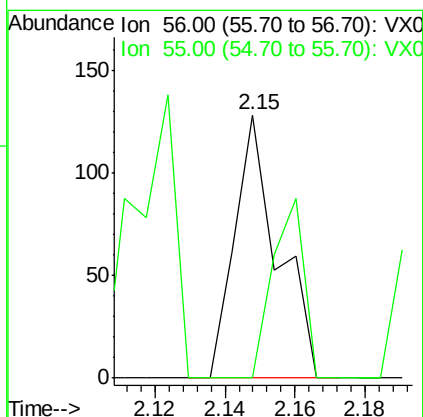
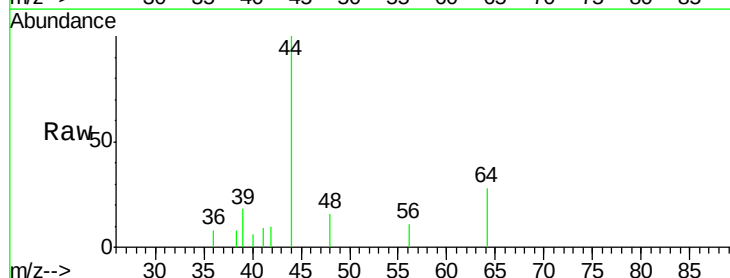
Instrument :
MSVOA_X
ClientSampled :
22250-51

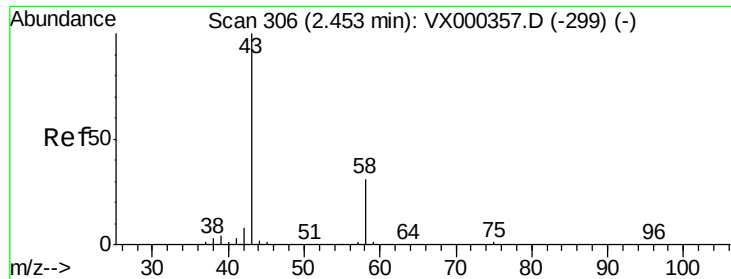
Tgt Ion: 59 Resp: 226
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#13
Acrolein
Concen: 15.27 ug/l
RT: 2.15 min Scan# 256
Delta R.T. -0.15 min
Lab File: VX000471.D
Acq: 27 Mar 2018 20:45

Tgt Ion: 56 Resp: 110
Ion Ratio Lower Upper
56 100
55 49.1 58.8 88.2#





#16

Acetone

Concen: 7.01 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

Instrument :

MSVOA_X

ClientSampled :

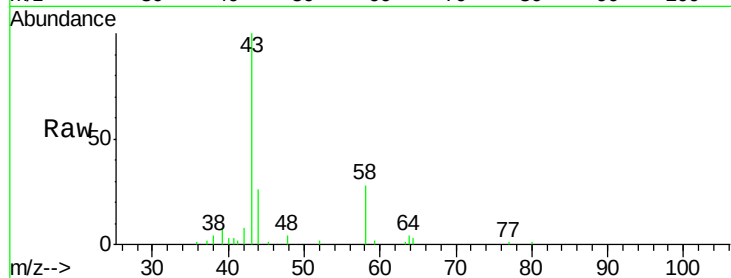
22250-51

Tgt Ion: 43 Resp: 7910

Ion Ratio Lower Upper

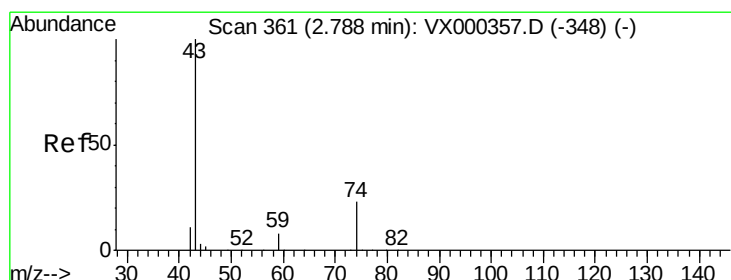
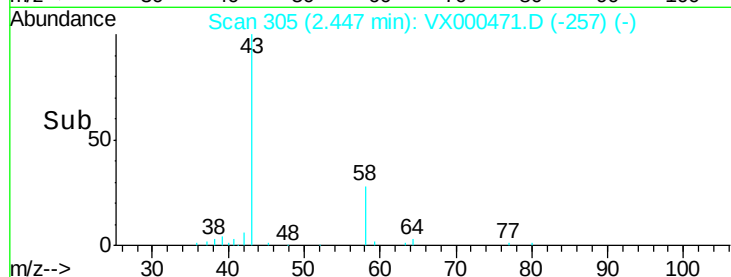
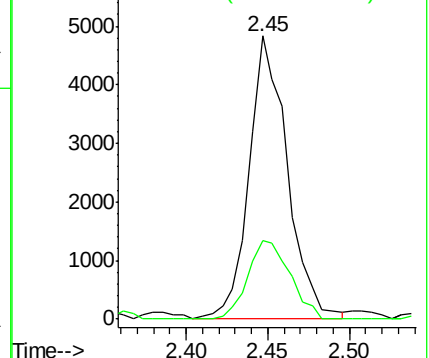
43 100

58 27.8 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: 0.22 ug/l

RT: 2.79 min Scan# 362

Delta R.T. 0.01 min

Lab File: VX000471.D

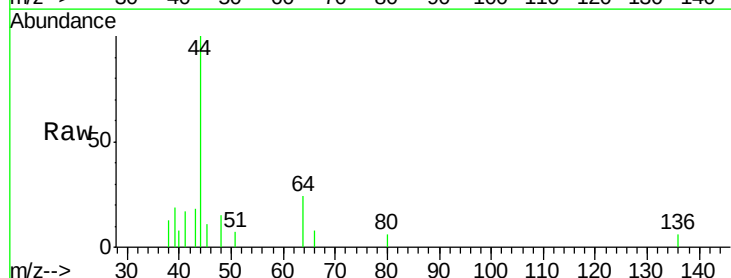
Acq: 27 Mar 2018 20:45

Tgt Ion: 43 Resp: 532

Ion Ratio Lower Upper

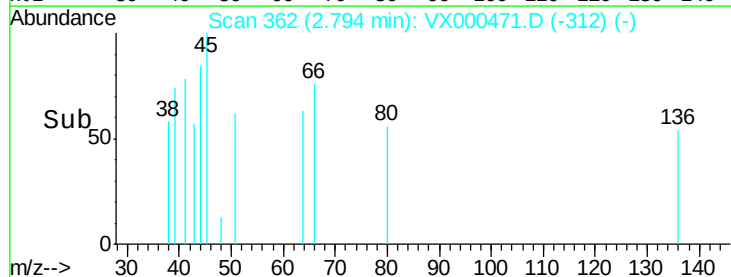
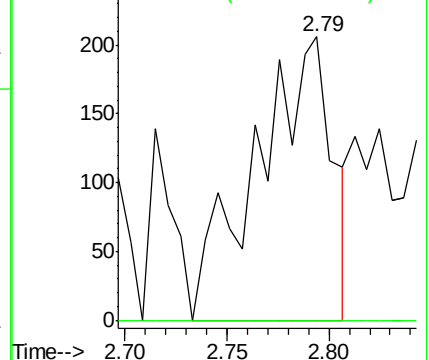
43 100

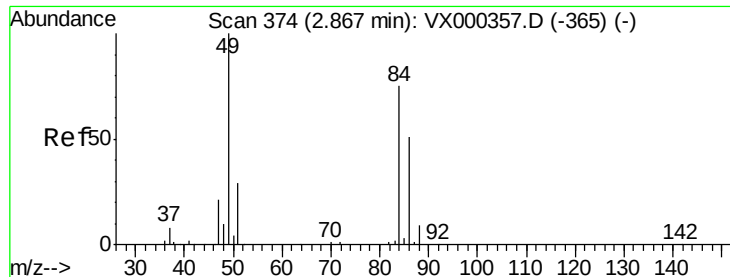
74 0.0 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

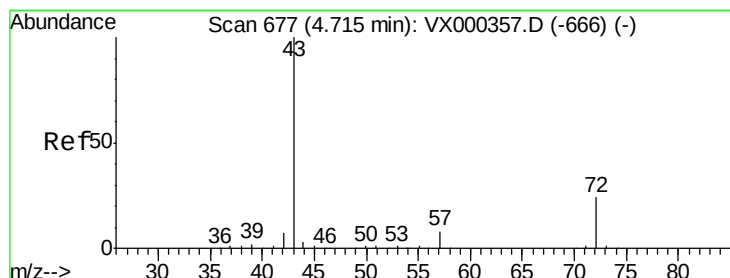
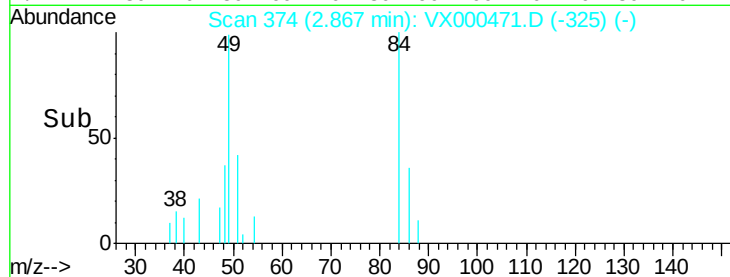
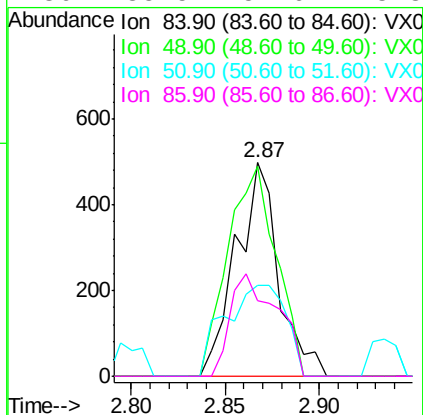
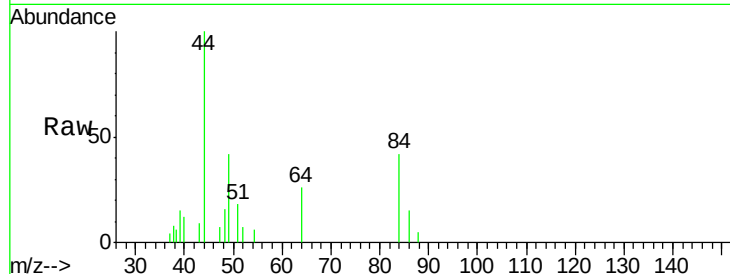




#20
Methylene Chloride
Concen: 0.59 ug/l
RT: 2.87 min Scan# 374
Delta R.T. -0.00 min
Lab File: VX000471.D
Acq: 27 Mar 2018 20:45

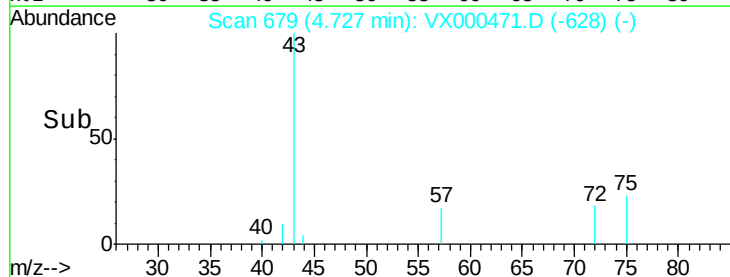
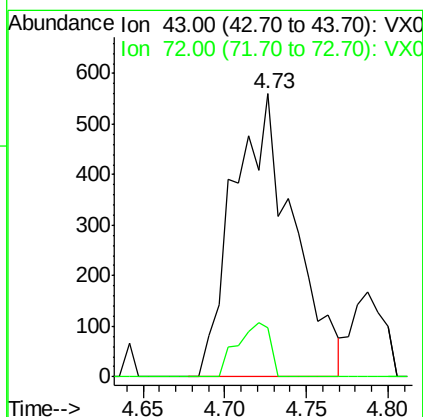
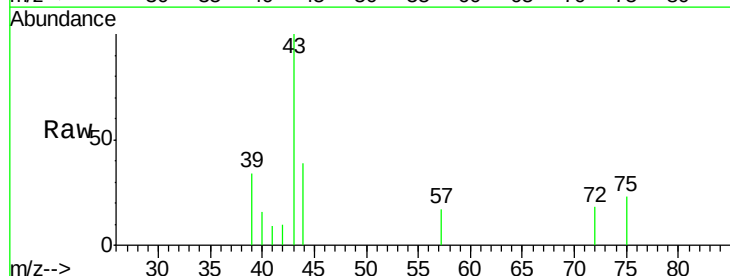
Instrument :
MSVOA_X
ClientSampleId :
22250-51

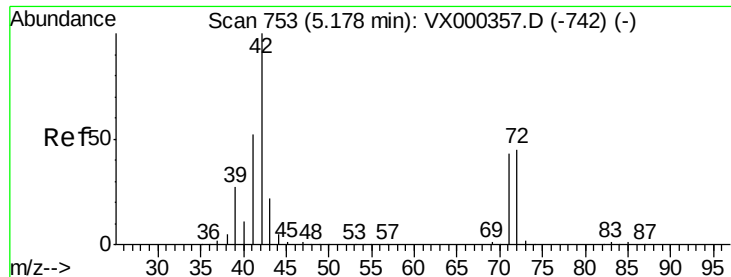
Tgt Ion: 84 Resp: 774
Ion Ratio Lower Upper
84 100
49 98.6 100.6 151.0#
51 42.4 31.6 47.4
86 35.5 52.6 78.8#



#25
2-Butanone
Concen: 1.13 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.01 min
Lab File: VX000471.D
Acq: 27 Mar 2018 20:45

Tgt Ion: 43 Resp: 1428
Ion Ratio Lower Upper
43 100
72 17.5 21.0 31.6#





#29

Tetrahydrofuran

Concen: 0.59 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

Instrument :

MSVOA_X

ClientSampled :

22250-51

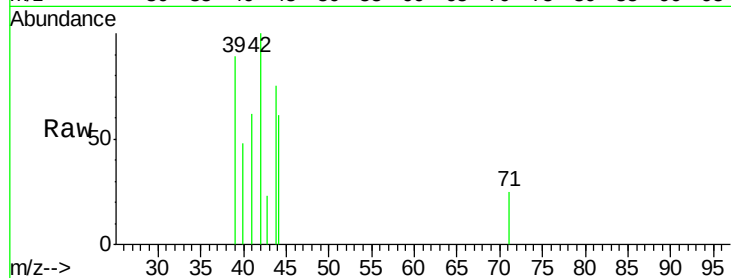
Tgt Ion: 42 Resp: 459

Ion Ratio Lower Upper

42 100

72 4.4 37.9 56.9#

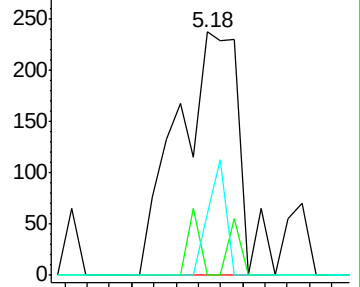
71 13.7 34.4 51.6#



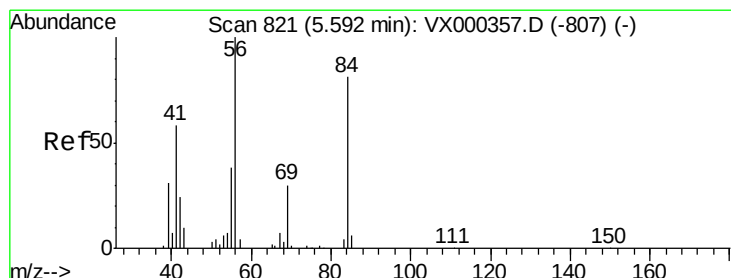
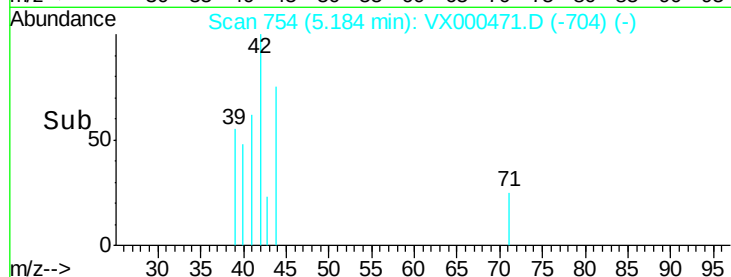
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->



#31

Cyclohexane

Concen: 1.52 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.09 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

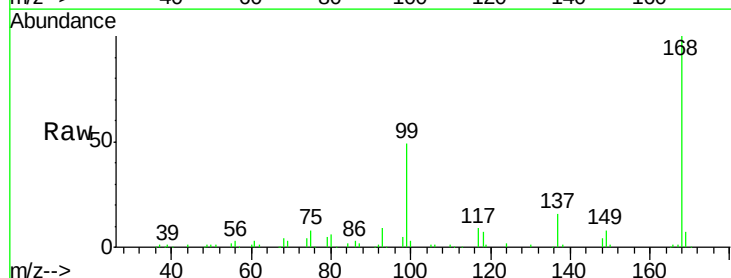
Tgt Ion: 56 Resp: 2600

Ion Ratio Lower Upper

56 100

69 105.7 23.4 35.0#

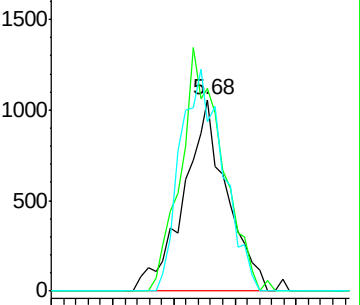
84 88.7 71.0 106.4



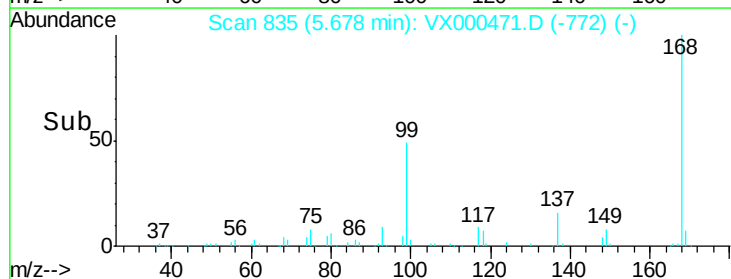
Abundance Ion 56.00 (55.70 to 56.70): VX0

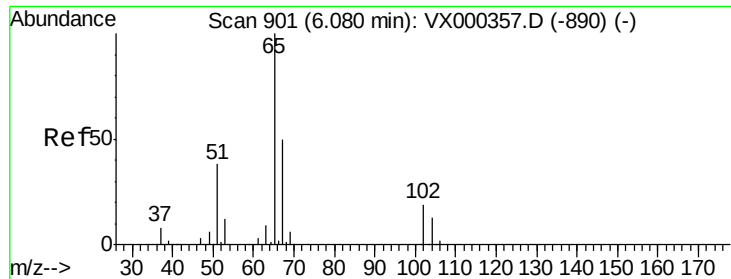
Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 56.43 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.00 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

Instrument :

MSVOA_X

ClientSampleId :

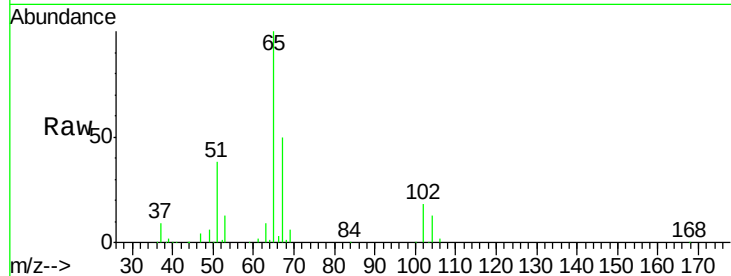
22250-51

Tgt Ion: 65 Resp: 76564

Ion Ratio Lower Upper

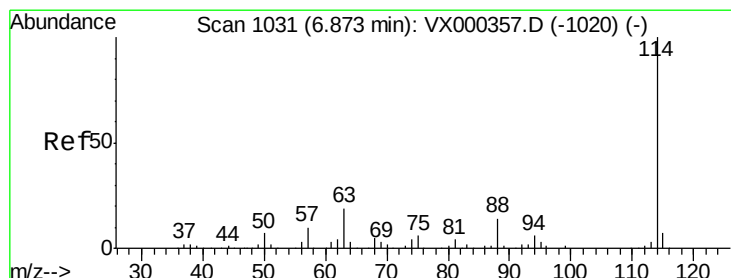
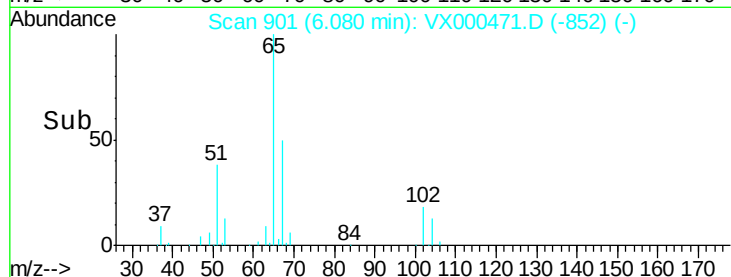
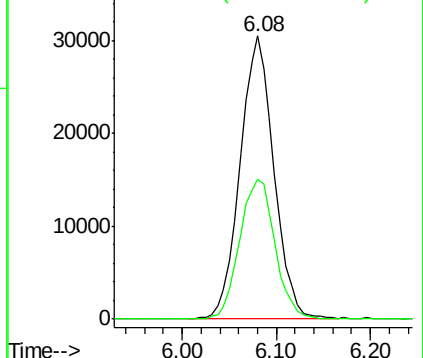
65 100

67 51.7 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: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

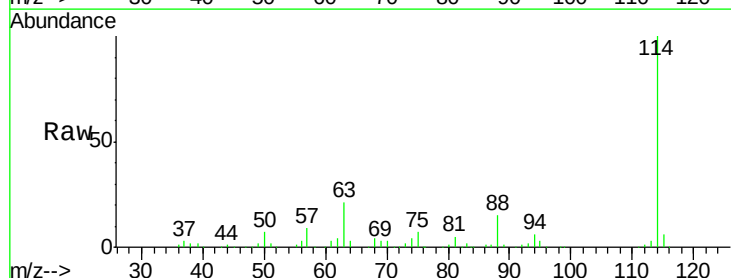
Tgt Ion: 114 Resp: 186114

Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.4

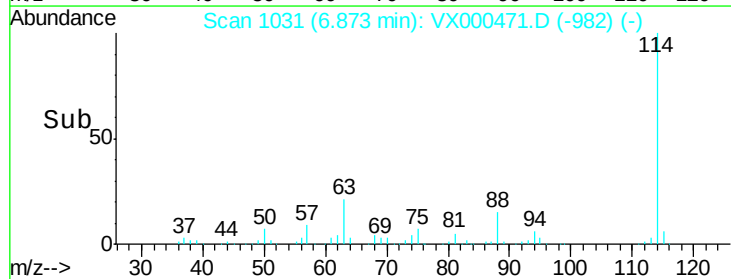
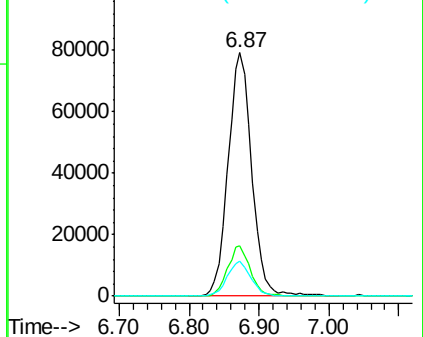
88 14.6 0.0 27.0

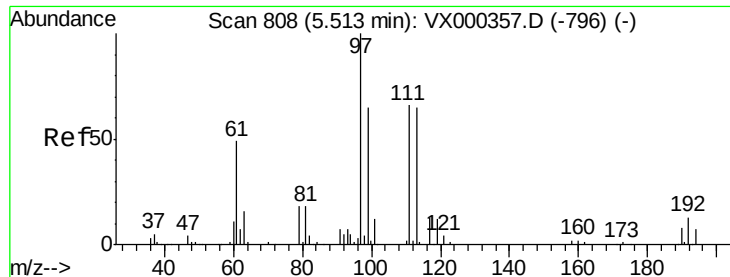


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

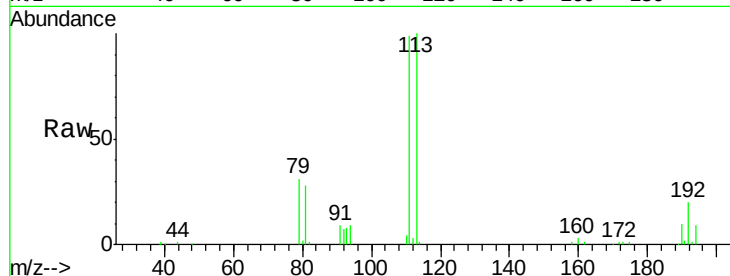




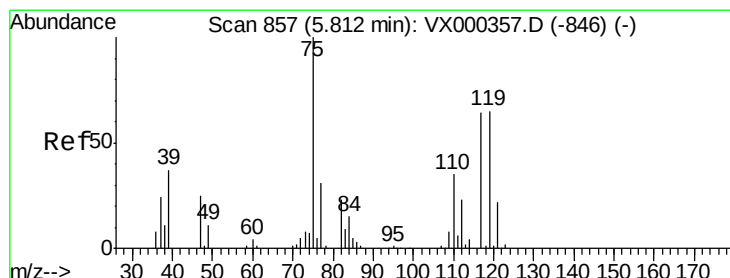
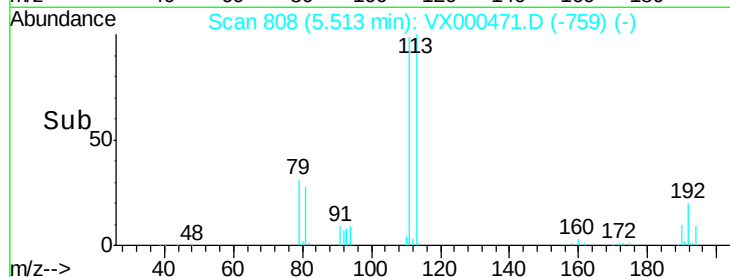
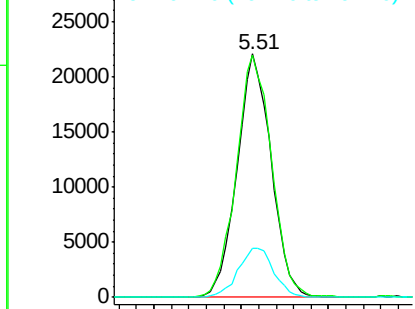
#35
 Dibromofluoromethane
 Concen: 51.05 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX000471.D
 Acq: 27 Mar 2018 20:45

Instrument :
 MSVOA_X
 ClientSampleId :
 22250-51

Tgt Ion:113 Resp: 59865
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.4 123.6
 192 21.0 15.8 23.6

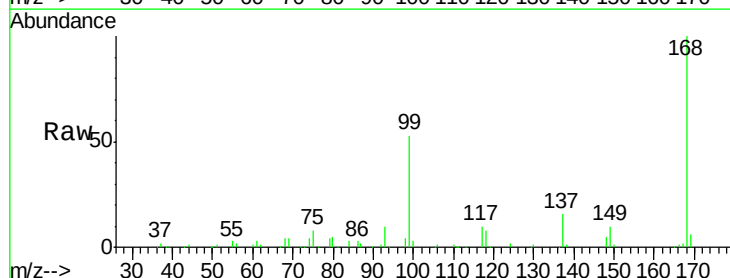


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

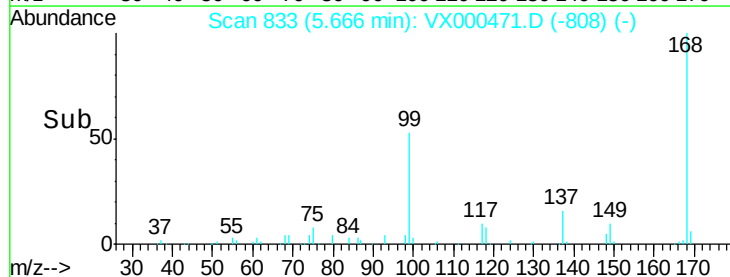
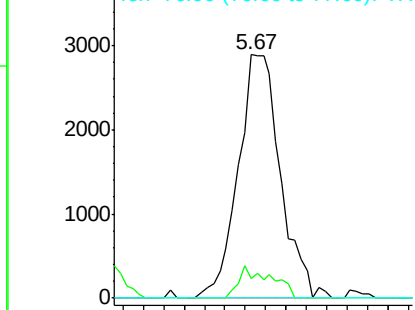


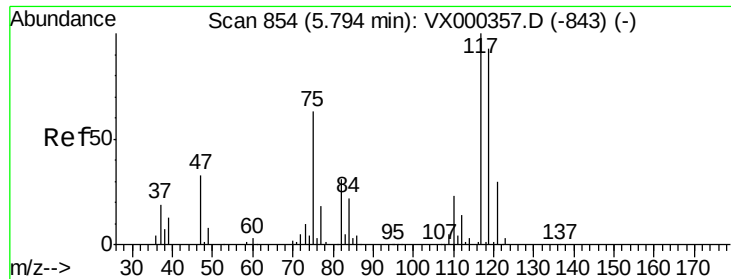
#36
 1,1-Dichloropropene
 Concen: 4.78 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.15 min
 Lab File: VX000471.D
 Acq: 27 Mar 2018 20:45

Tgt Ion: 75 Resp: 8333
 Ion Ratio Lower Upper
 75 100
 110 9.9 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: 5.66 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

Instrument :

MSVOA_X

ClientSampleId :

22250-51

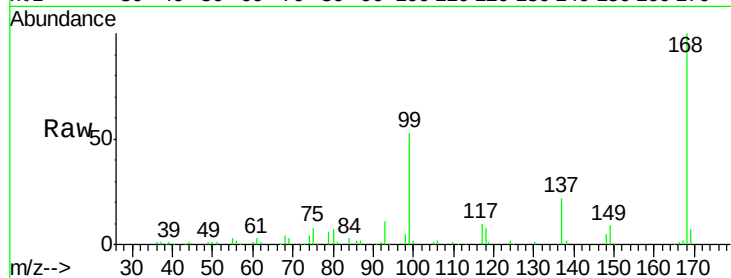
Tgt Ion:117 Resp: 10347

Ion Ratio Lower Upper

117 100

119 7.6 77.4 116.2#

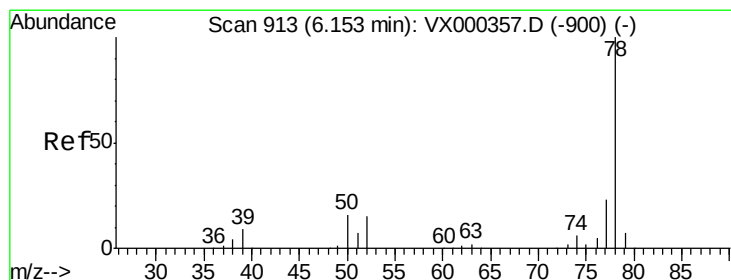
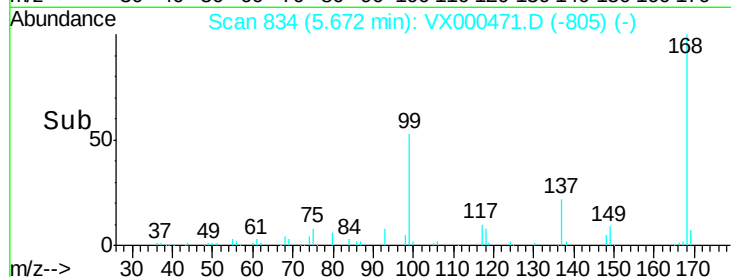
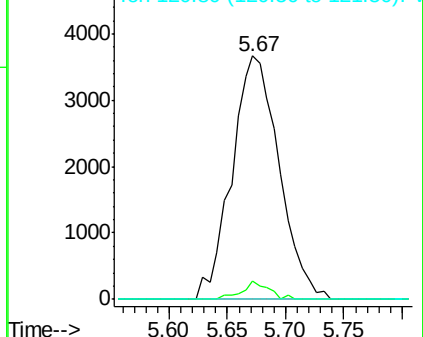
121 0.0 24.8 37.2#



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



#40

Benzene

Concen: 1.08 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.01 min

Lab File: VX000471.D

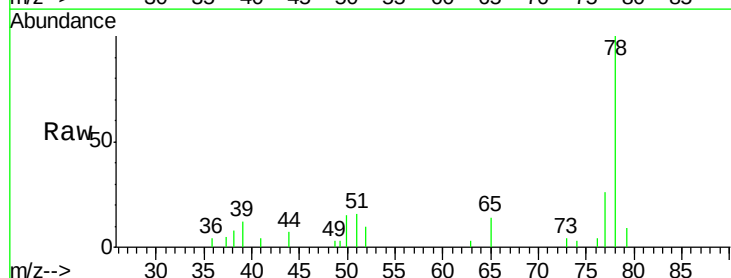
Acq: 27 Mar 2018 20:45

Tgt Ion: 78 Resp: 5450

Ion Ratio Lower Upper

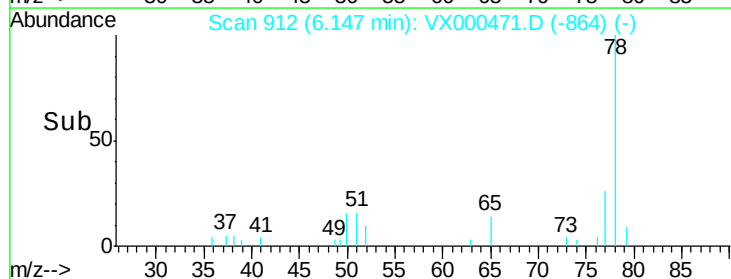
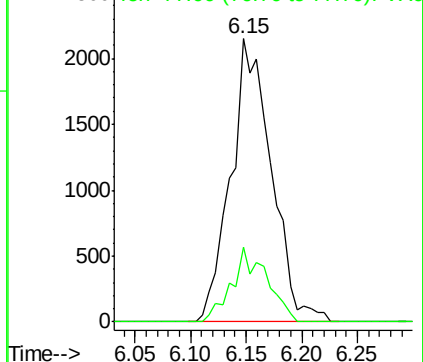
78 100

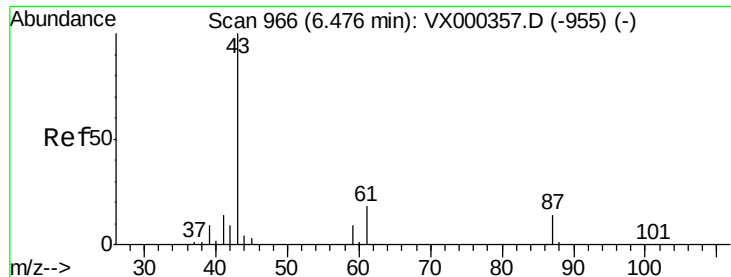
77 26.3 18.7 28.1



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#43

Isopropyl Acetate

Concen: 0.38 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

Instrument :

MSVOA_X

ClientSampleId :

22250-51

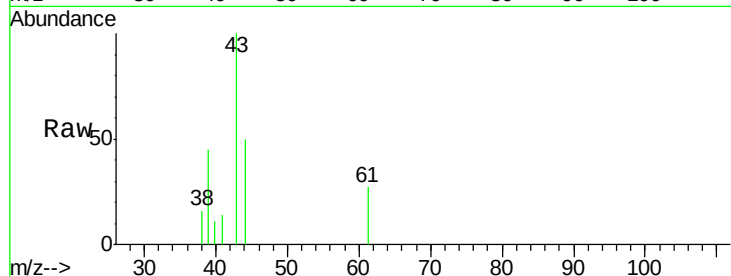
Tgt Ion: 43 Resp: 1346

Ion Ratio Lower Upper

43 100

61 16.8 14.4 21.6

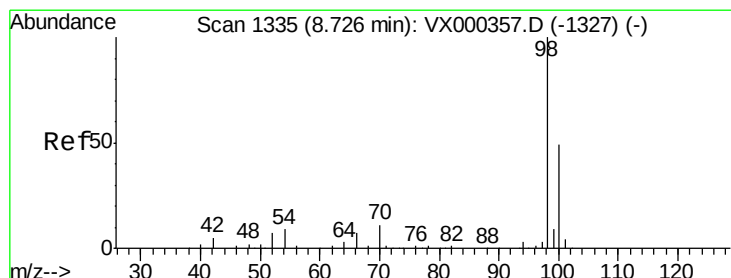
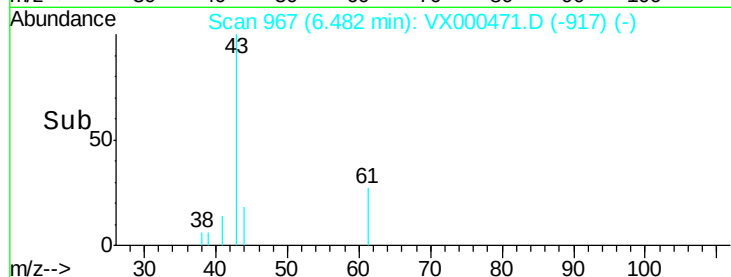
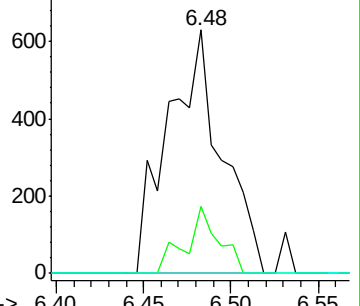
87 0.0 11.0 16.4#



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: 48.17 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000471.D

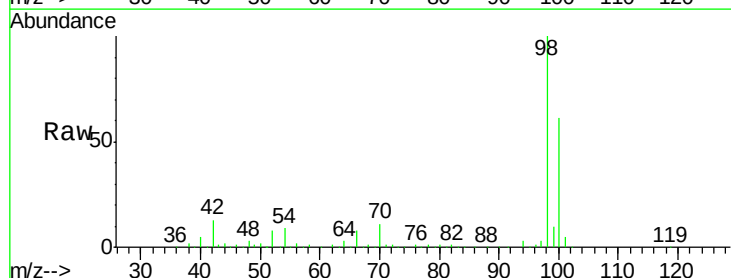
Acq: 27 Mar 2018 20:45

Tgt Ion: 98 Resp: 233961

Ion Ratio Lower Upper

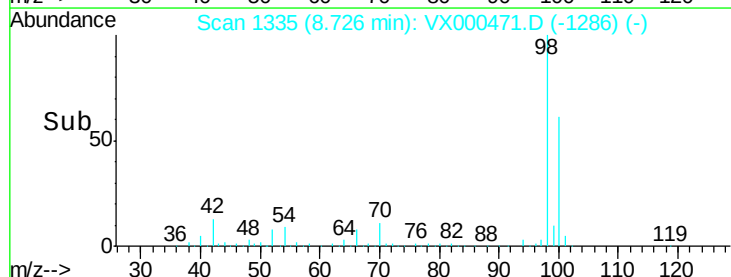
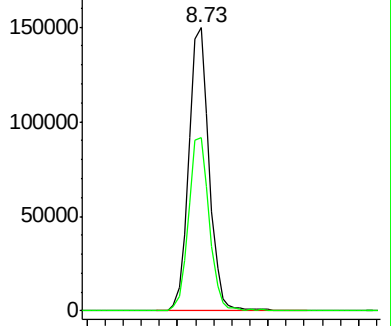
98 100

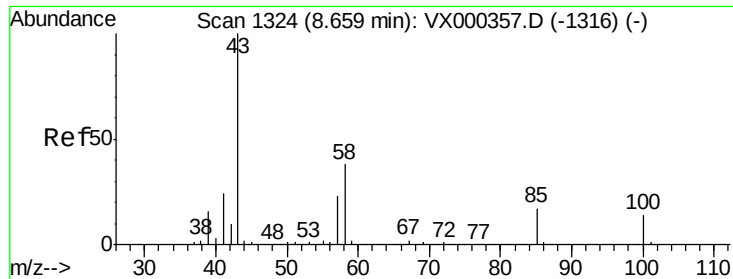
100 62.4 51.2 76.8



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: 0.50 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

Instrument :

MSVOA_X

ClientSampleId :

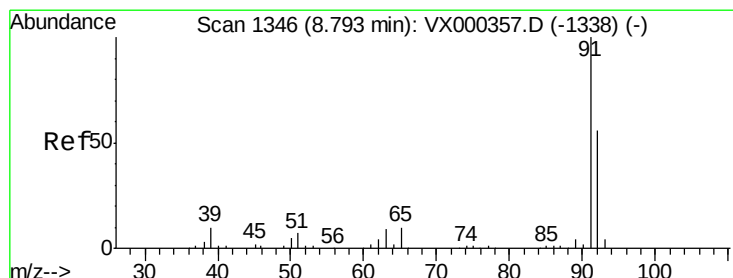
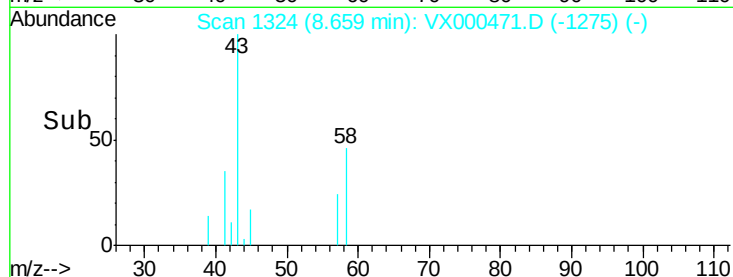
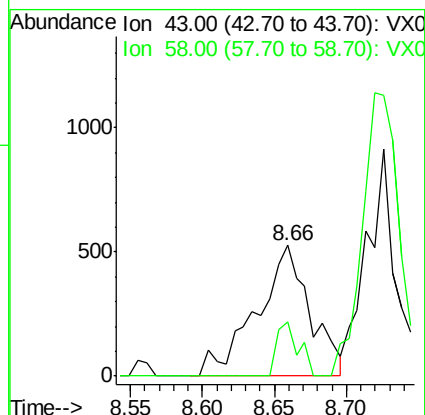
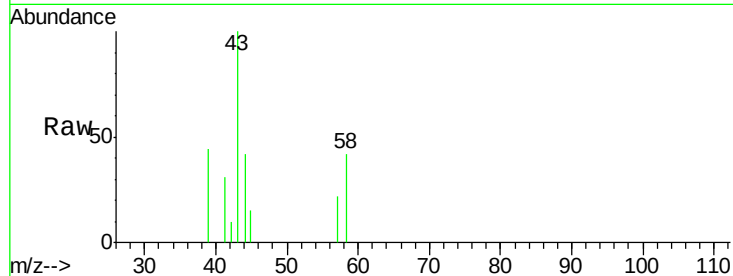
22250-51

Tgt Ion: 43 Resp: 1365

Ion Ratio Lower Upper

43 100

58 16.9 30.3 45.5#



#52

Toluene

Concen: 0.94 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. -0.00 min

Lab File: VX000471.D

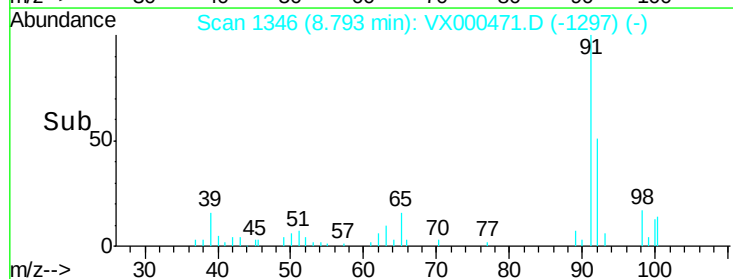
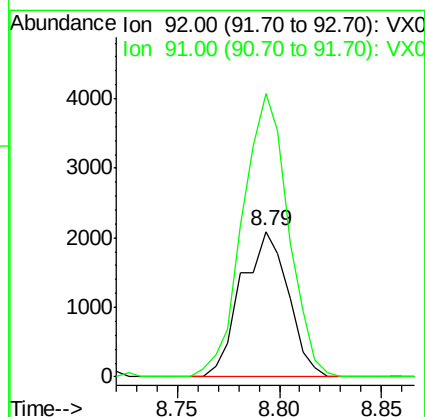
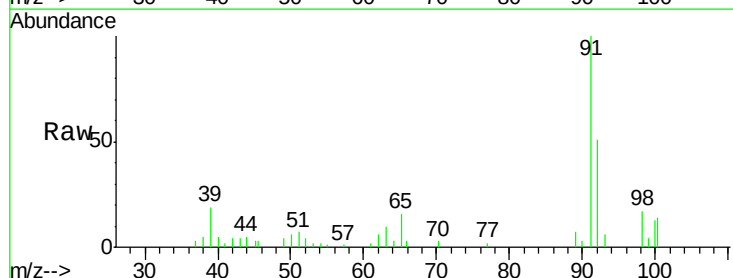
Acq: 27 Mar 2018 20:45

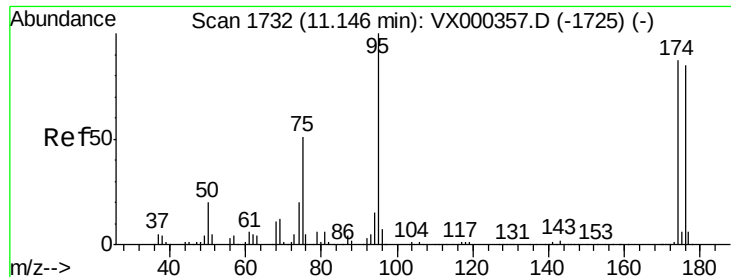
Tgt Ion: 92 Resp: 3340

Ion Ratio Lower Upper

92 100

91 190.6 140.2 210.2





#62

4-Bromofluorobenzene

Concen: 39.29 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

Instrument :

MSVOA_X

ClientSampleId :

22250-51

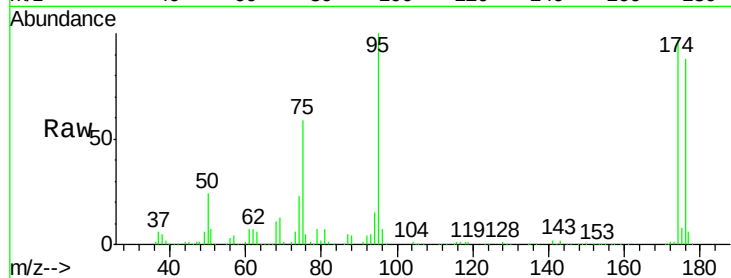
Tgt Ion: 95 Resp: 77546

Ion Ratio Lower Upper

95 100

174 91.5 0.0 173.6

176 86.2 0.0 164.6

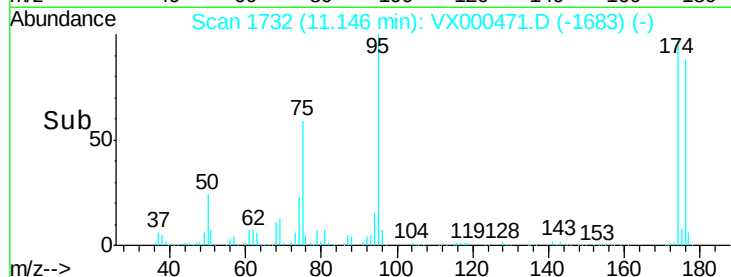


Abundance Ion 94.90 (94.60 to 95.60): VX000471.D (-1683) (-)

Ion 173.80 (173.50 to 174.50): VX000471.D (-1683) (-)

Ion 175.80 (175.50 to 176.50): VX000471.D (-1683) (-)

Time-->



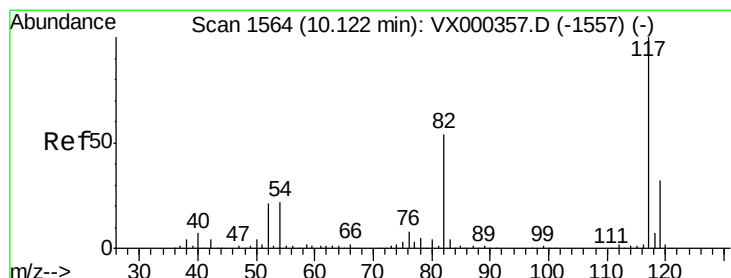
Abundance

Ion 94.90 (94.60 to 95.60): VX000471.D (-1683) (-)

Ion 173.80 (173.50 to 174.50): VX000471.D (-1683) (-)

Ion 175.80 (175.50 to 176.50): VX000471.D (-1683) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

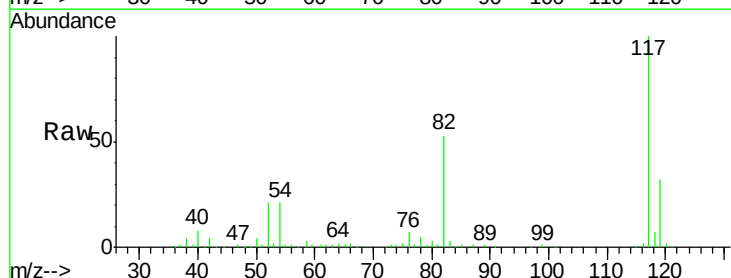
Tgt Ion: 117 Resp: 176503

Ion Ratio Lower Upper

117 100

82 52.7 43.8 65.8

119 32.0 24.9 37.3

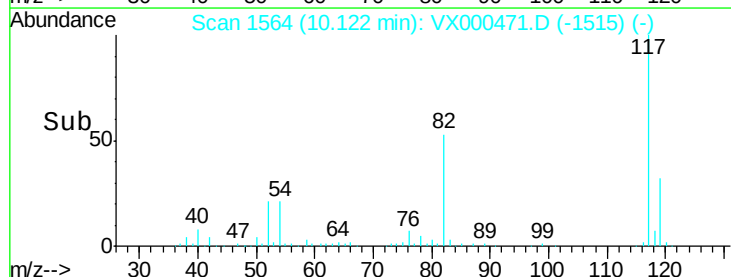


Abundance Ion 116.90 (116.60 to 117.60): VX000471.D (-1515) (-)

Ion 82.00 (81.70 to 82.70): VX000471.D (-1515) (-)

Ion 118.90 (118.60 to 119.60): VX000471.D (-1515) (-)

Time-->



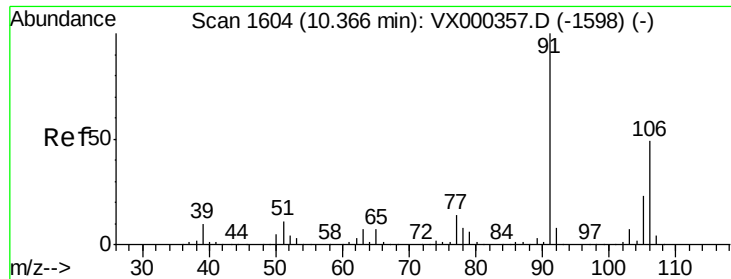
Abundance

Ion 116.90 (116.60 to 117.60): VX000471.D (-1515) (-)

Ion 82.00 (81.70 to 82.70): VX000471.D (-1515) (-)

Ion 118.90 (118.60 to 119.60): VX000471.D (-1515) (-)

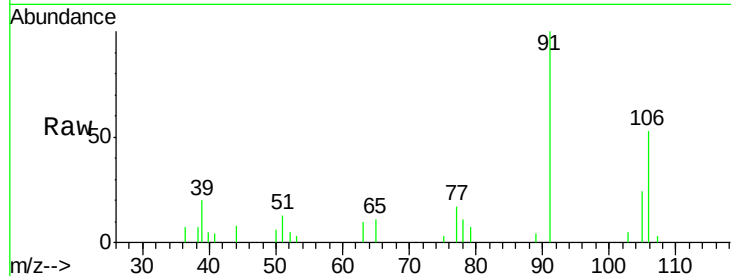
Time-->



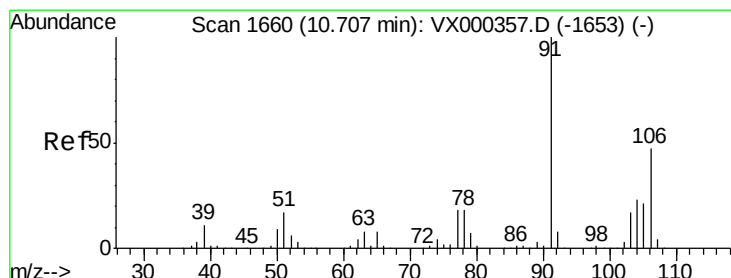
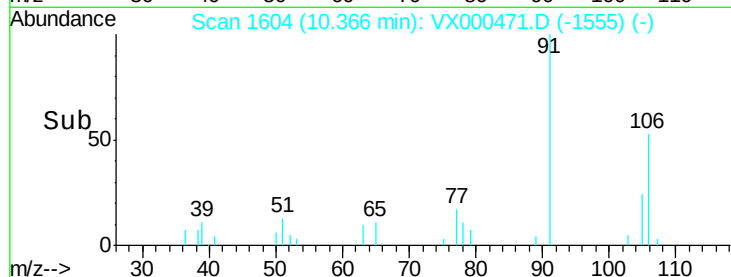
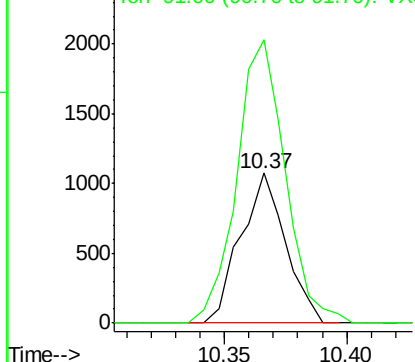
#68
m/p-Xylenes
Concen: 0.52 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VX000471.D
Acq: 27 Mar 2018 20:45

Instrument :
MSVOA_X
ClientSampleId :
22250-51

Tgt Ion:106 Resp: 1368
Ion Ratio Lower Upper
106 100
91 203.7 163.4 245.2

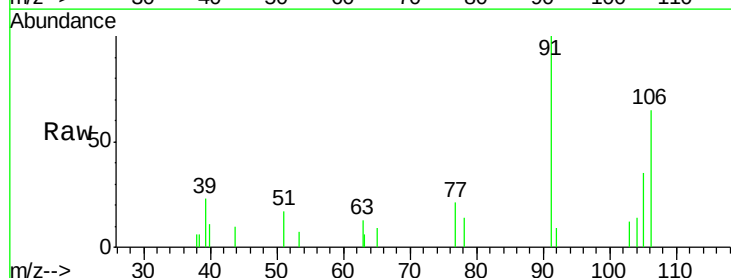


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

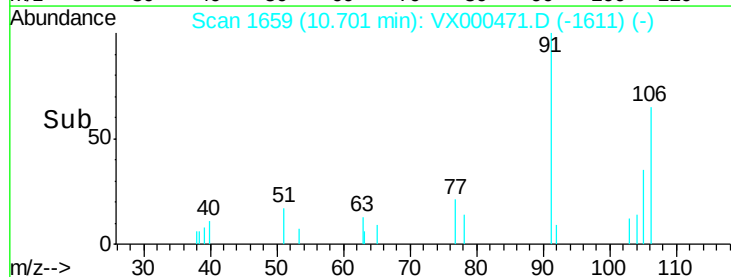
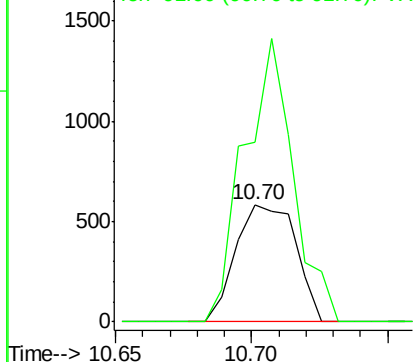


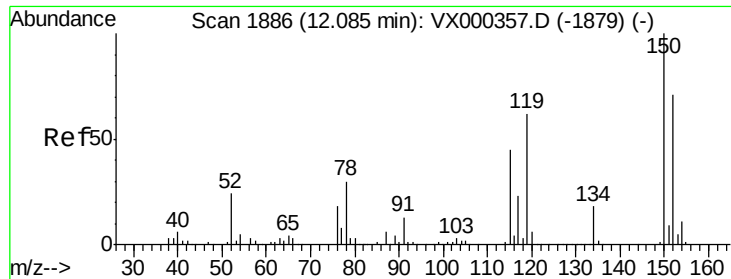
#69
o-Xylene
Concen: 0.35 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.01 min
Lab File: VX000471.D
Acq: 27 Mar 2018 20:45

Tgt Ion:106 Resp: 892
Ion Ratio Lower Upper
106 100
91 198.3 106.5 319.6



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: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

Instrument :

MSVOA_X

ClientSampled :

22250-51

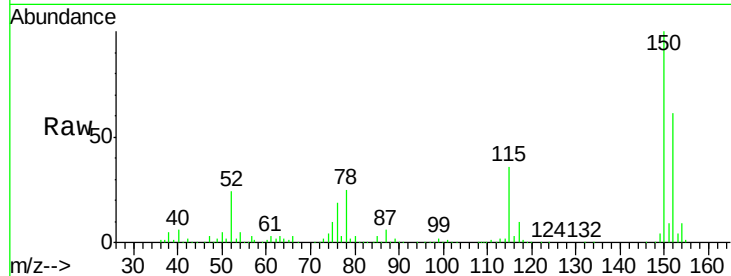
Tgt Ion:152 Resp: 87805

Ion Ratio Lower Upper

152 100

115 57.5 39.8 119.3

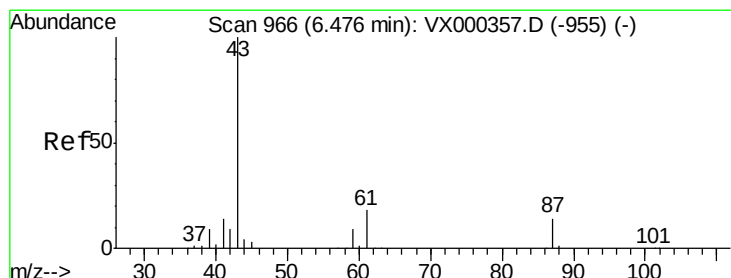
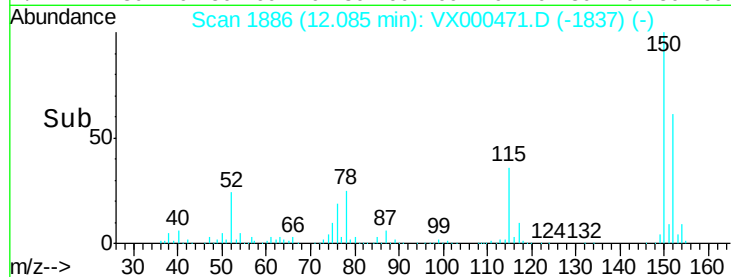
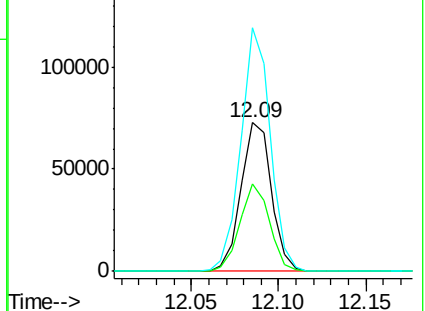
150 158.5 0.0 344.4



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-ethyl acetate

Concen: Below Cal

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

Tgt Ion: 43 Resp: 1346

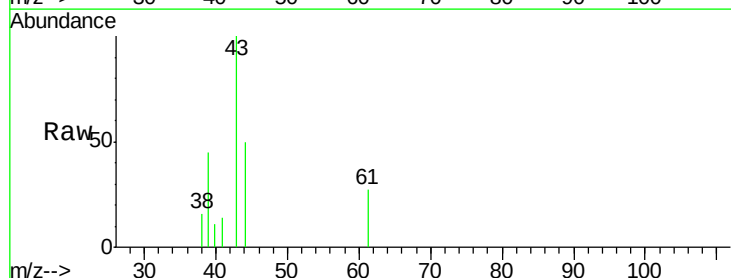
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 16.8 14.4 21.6

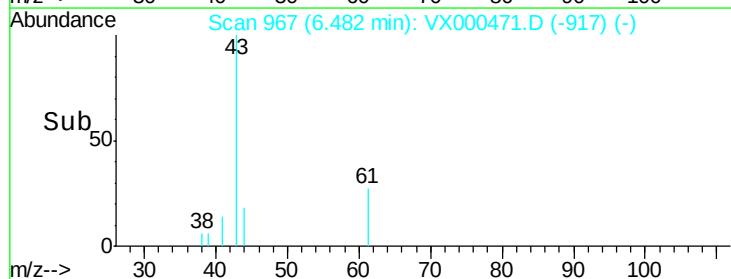
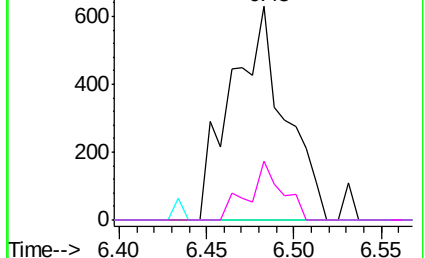


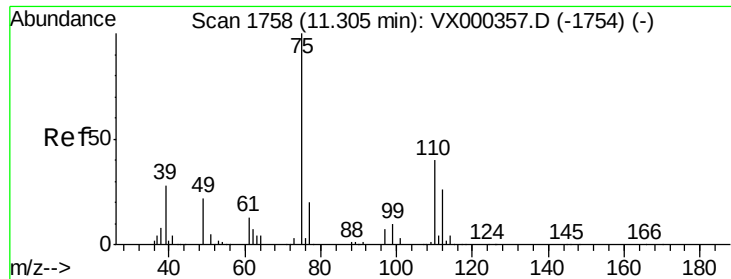
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.72 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

Instrument :

MSVOA_X

ClientSampleId :

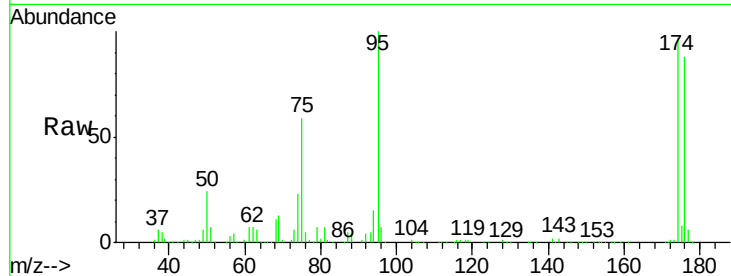
22250-51

Tgt Ion: 75 Resp: 44752

Ion Ratio Lower Upper

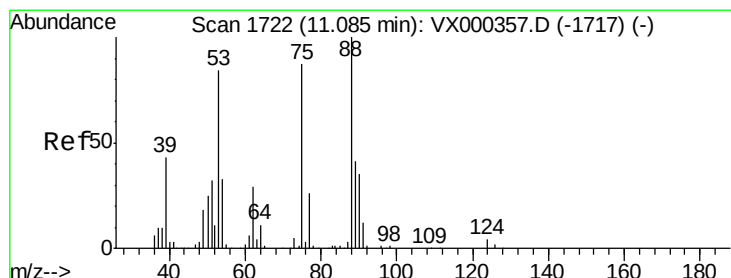
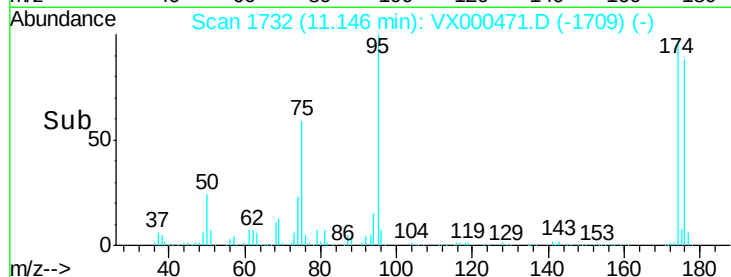
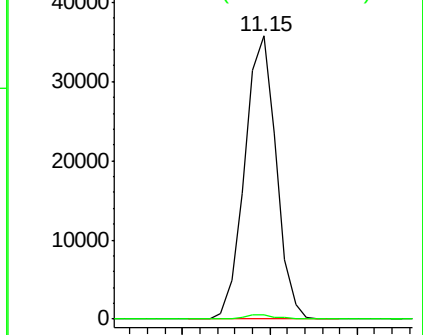
75 100

77 1.4 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: 76.78 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000471.D

Acq: 27 Mar 2018 20:45

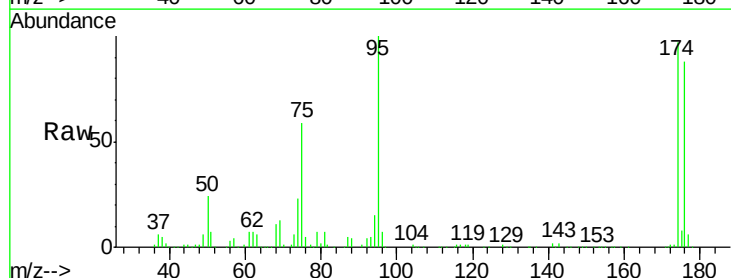
Tgt Ion: 75 Resp: 44752

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

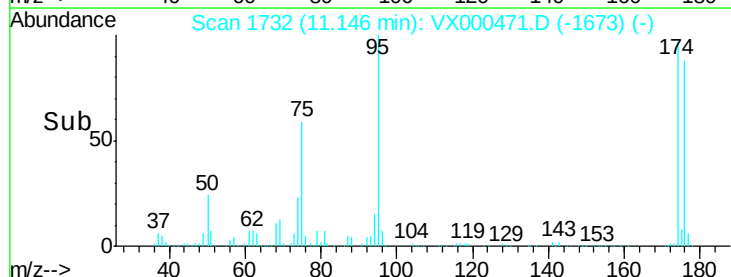
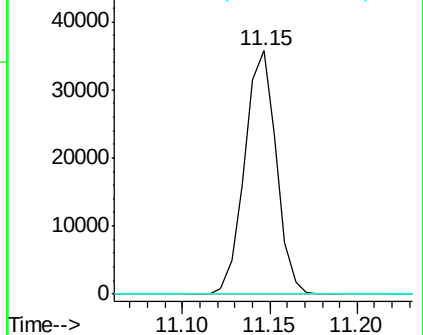
89 0.0 39.4 59.0#

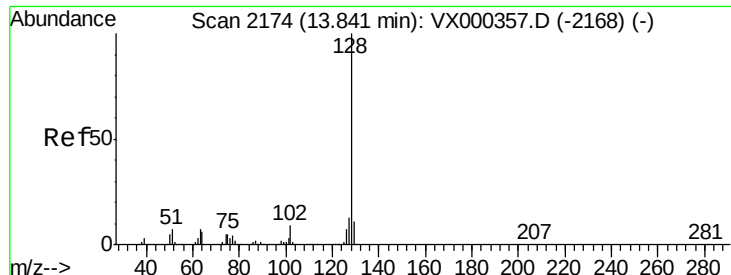


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95
Naphthalene
Concen: 1.76 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX000471.D
Acq: 27 Mar 2018 20:45

Instrument :
MSVOA_X
ClientSampleId :
22250-51

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.8	10.6	15.8
129	12.5	8.9	13.3

