

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070518\
 Data File : VX003179.D
 Acq On : 05 Jul 2018 18:20
 Operator : JC/MD
 Sample : J3842-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

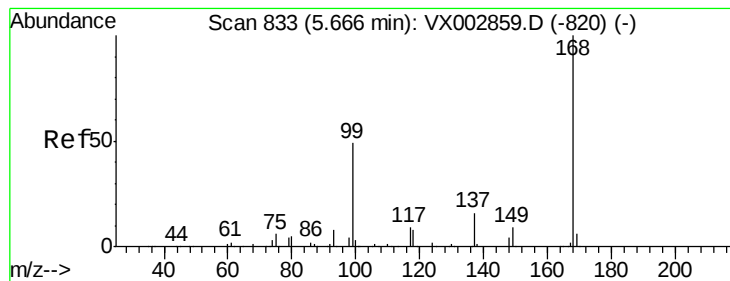
Quant Time: Jul 06 01:04:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	264534	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	368166	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	353000	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	194322	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	169545	46.37	ug/l	0.00
Spiked Amount			Recovery	=	92.74%	
35) Dibromofluoromethane	5.51	113	141486	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
50) Toluene-d8	8.72	98	513639	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
62) 4-Bromofluorobenzene	11.14	95	183581	44.71	ug/l	0.00
Spiked Amount			Recovery	=	89.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	90	Below Cal	#	43
3) Chloromethane	1.32	50	844	Below Cal	#	84
5) Bromomethane	1.65	94	1512	Below Cal		97
6) Chloroethane	1.73	64	766	Below Cal	#	43
10) Methyl Iodide	2.52	142	1876	6.78	ug/l	93
11) Tert butyl alcohol	3.07	59	2371	3.26	ug/l	79
13) Acrolein	2.28	56	223	4.77	ug/l	14
15) Acrylonitrile	3.17	53	472	0.30	ug/l	6
16) Acetone	2.45	43	6093	4.02	ug/l	99
17) Carbon Disulfide	2.57	76	1487	0.21	ug/l	89
18) Methyl Acetate	2.84	43	26643	6.29	ug/l	56
20) Methylene Chloride	2.86	84	1563	0.53	ug/l	85
31) Cyclohexane	5.58	56	5899	1.29	ug/l	96
36) 1,1-Dichloropropene	5.67	75	16732	4.14	ug/l	51
38) Carbon Tetrachloride	5.67	117	23852	5.38	ug/l	16
39) Methylcyclohexane	7.47	83	3894	0.83	ug/l	83
40) Benzene	6.15	78	158599	13.52	ug/l	98
42) 1,2-Dichloroethane	6.17	62	1924	0.41	ug/l	77
59) 2-Hexanone	9.52	43	1650	0.48	ug/l	79
73) Isopropylbenzene	11.02	105	3872	0.30	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	92672	26.33	ug/l	33
80) 1,3,5-Trimethylbenzene	11.51	105	2764	0.25	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.14	75	92672	74.61	ug/l	7

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

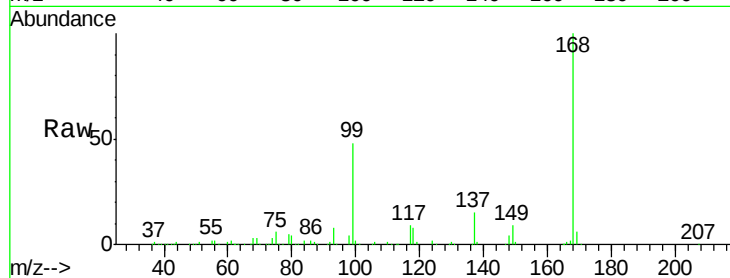
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 264534

Ion Ratio Lower Upper

168 100

99 48.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

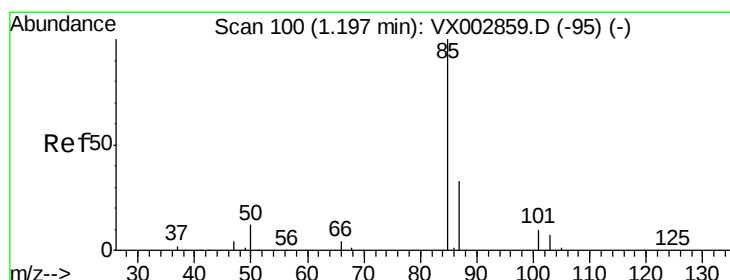
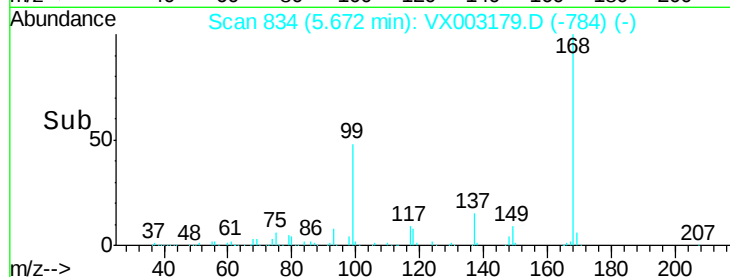
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003179.D

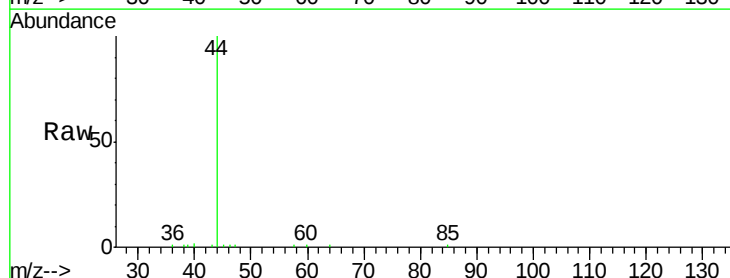
Acq: 05 Jul 2018 18:20

Tgt Ion: 85 Resp: 90

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

100

80

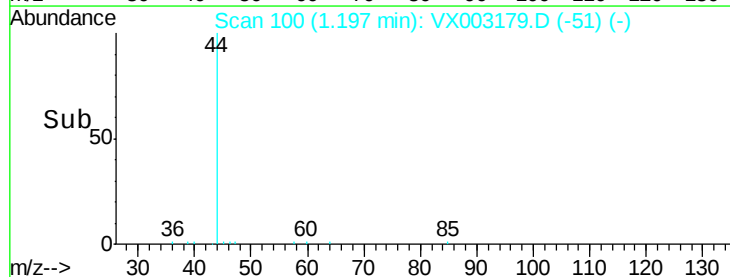
60

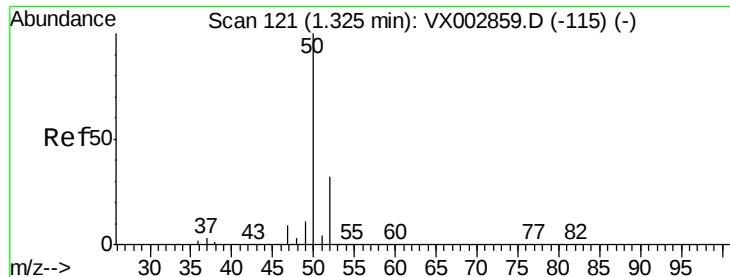
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

Instrument :

MSVOA_X

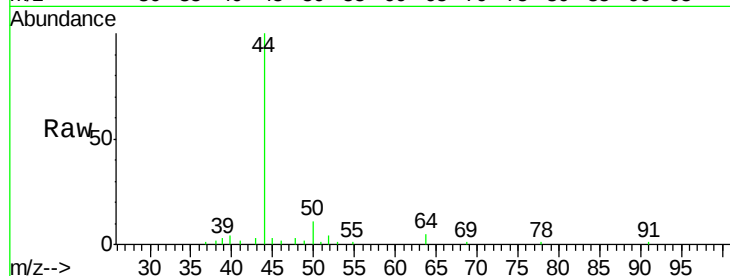
ClientSampleId :

Tot Ion: 50 Resp: 844

Ion Ratio Lower Upper

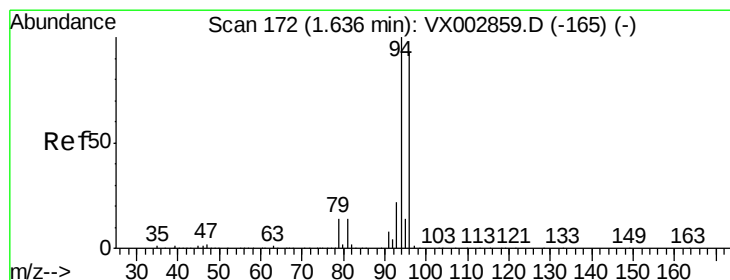
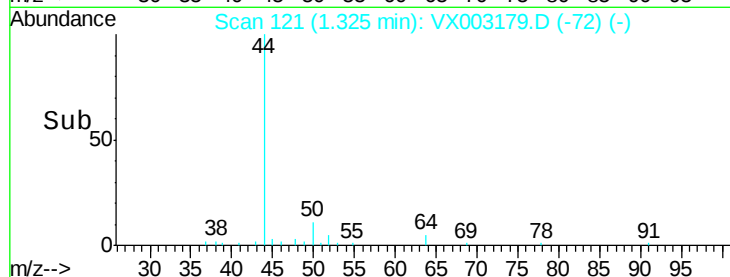
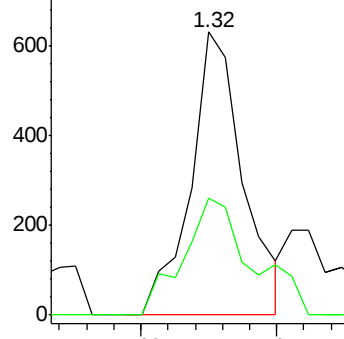
50 100

52 41.2 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003179.D

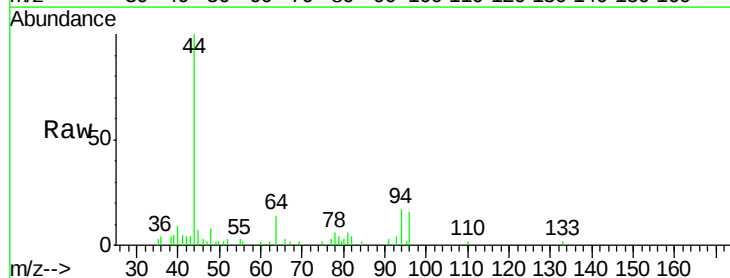
Acq: 05 Jul 2018 18:20

Tgt Ion: 94 Resp: 1512

Ion Ratio Lower Upper

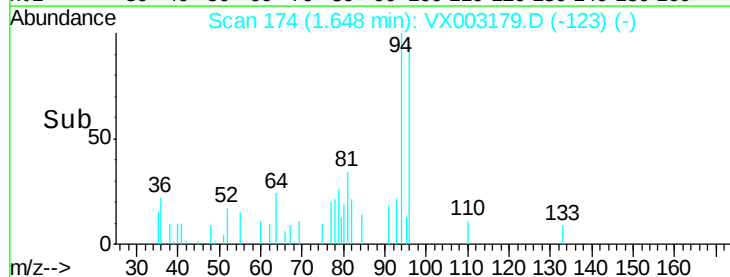
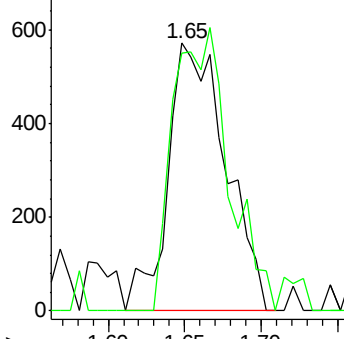
94 100

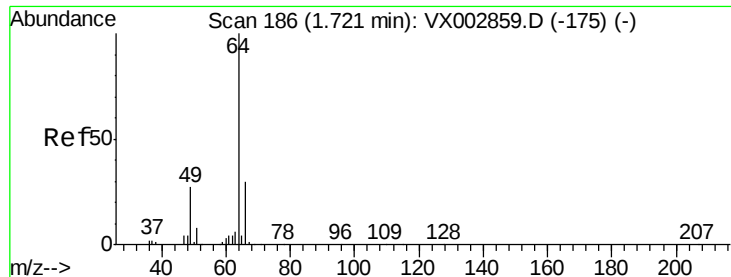
96 96.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

Instrument :

MSVOA_X

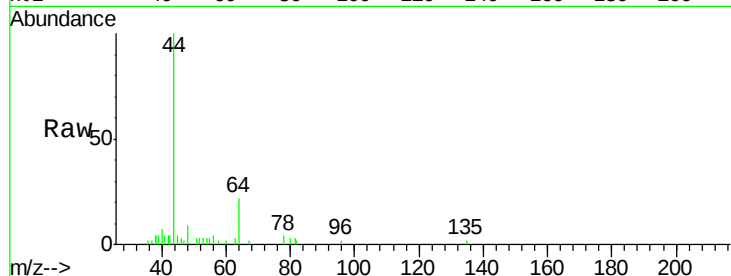
ClientSampleId :

Tot Ion: 64 Resp: 766

Ion Ratio Lower Upper

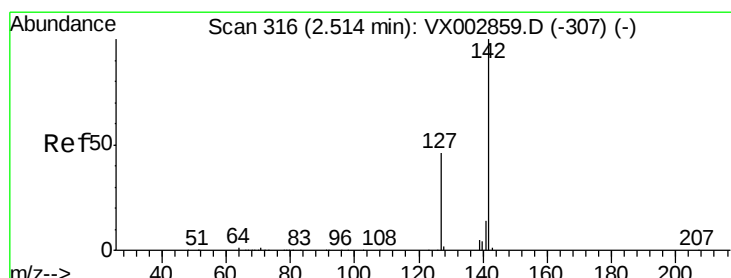
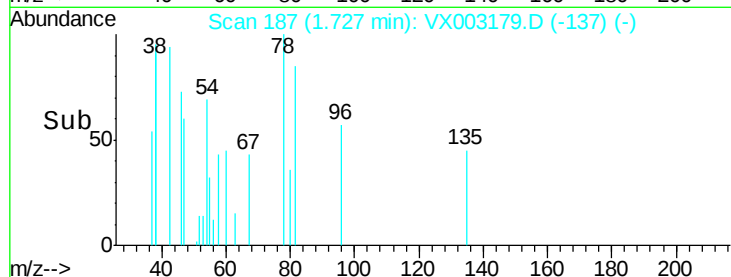
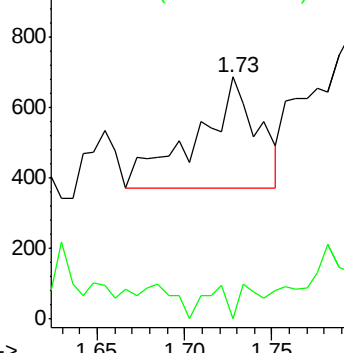
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 6.78 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

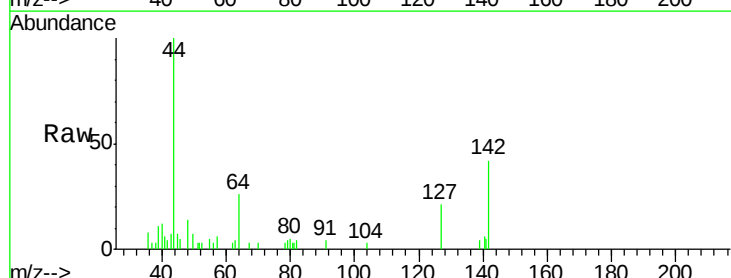
Tgt Ion: 142 Resp: 1876

Ion Ratio Lower Upper

142 100

127 49.4 36.6 55.0

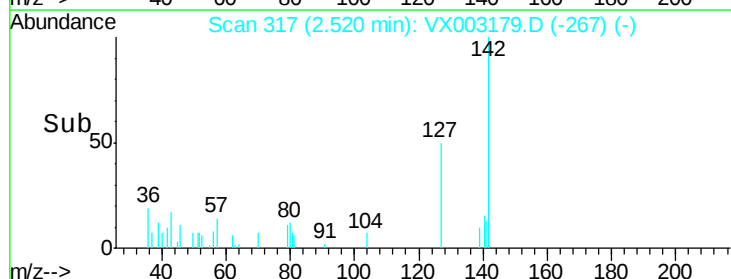
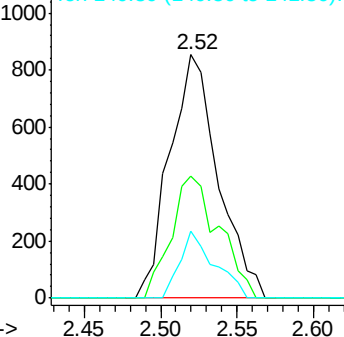
141 19.6 11.3 16.9#

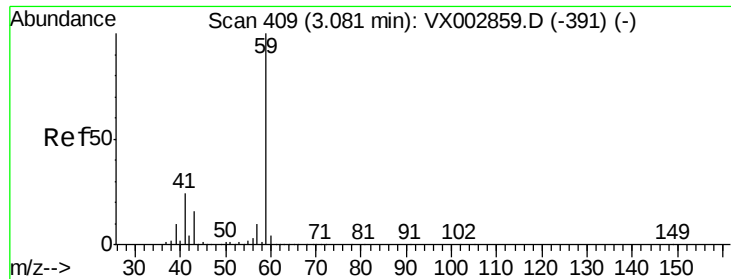


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

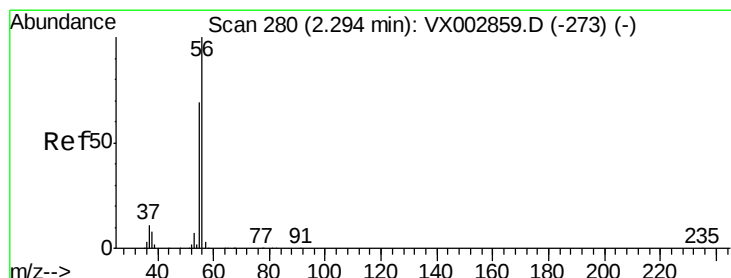
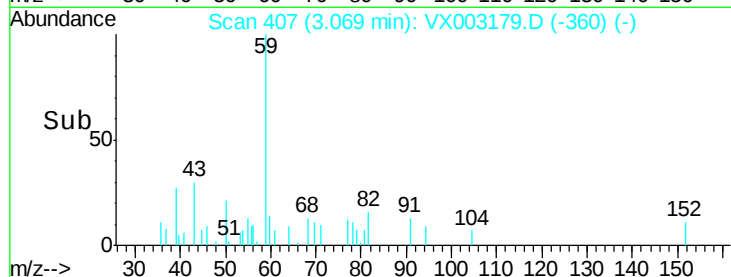
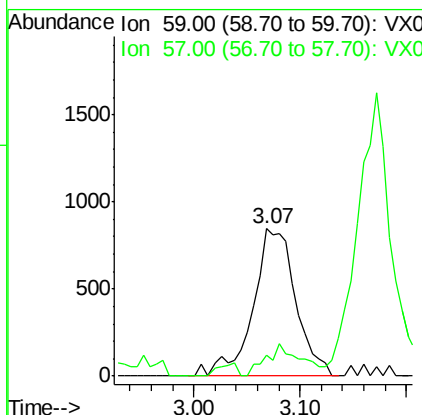
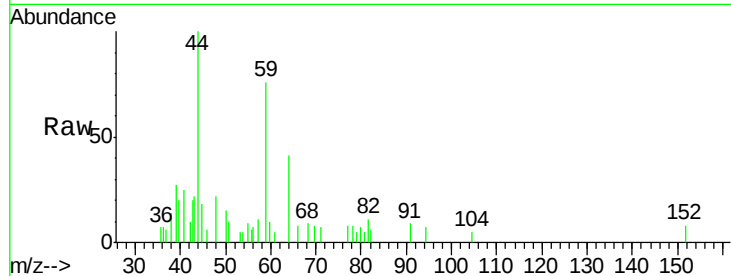




#11
Tert butyl alcohol
Concen: 3.26 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX003179.D
Acq: 05 Jul 2018 18:20

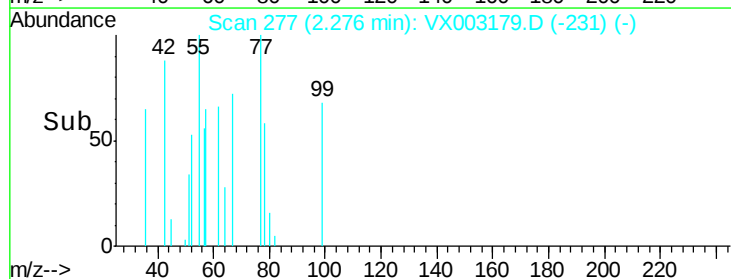
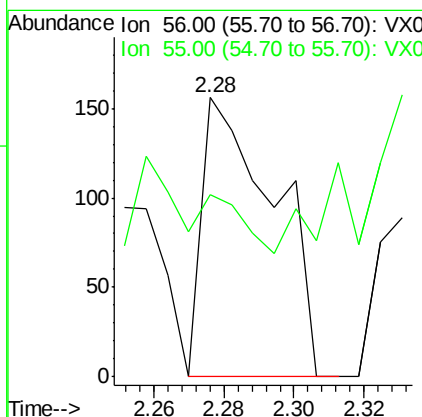
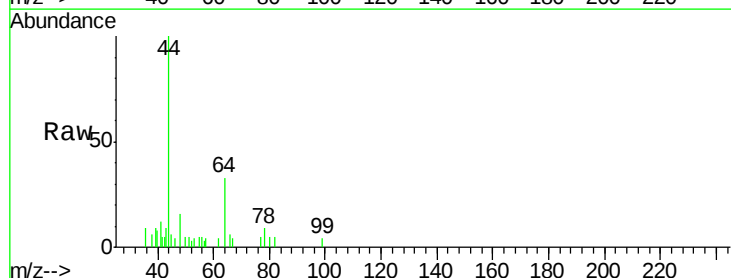
Instrument :
MSVOA_X
ClientSampled :

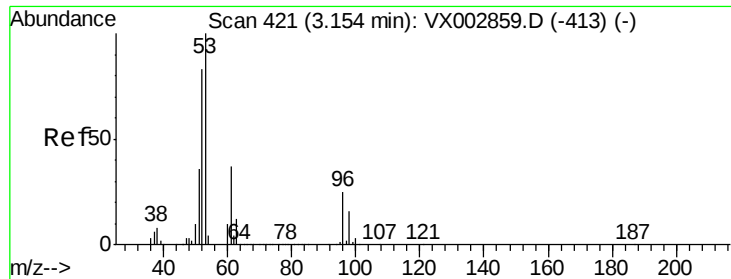
Tot Ion: 59 Resp: 2371
Ion Ratio Lower Upper
59 100
57 18.1 8.2 12.2#



#13
Acrolein
Concen: 4.77 ug/l
RT: 2.28 min Scan# 277
Delta R.T. -0.02 min
Lab File: VX003179.D
Acq: 05 Jul 2018 18:20

Tgt Ion: 56 Resp: 223
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#15

Acrylonitrile

Concen: 0.30 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

Instrument :

MSVOA_X

ClientSampled :

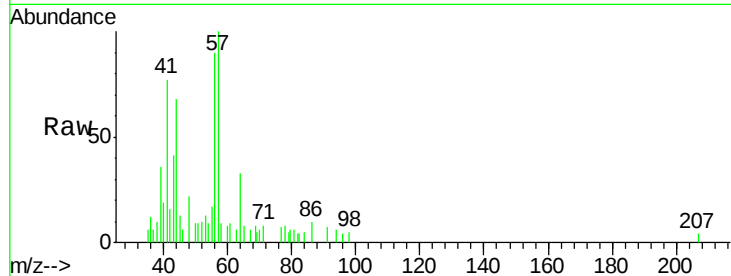
Tot Ion: 53 Resp: 472

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

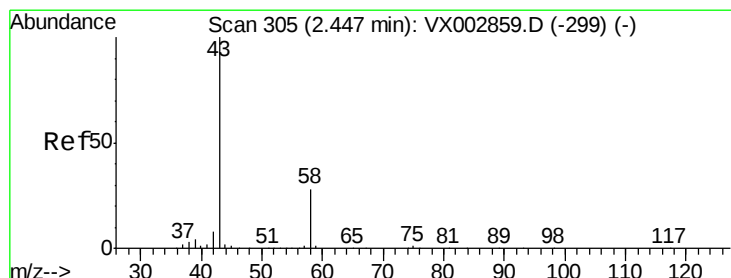
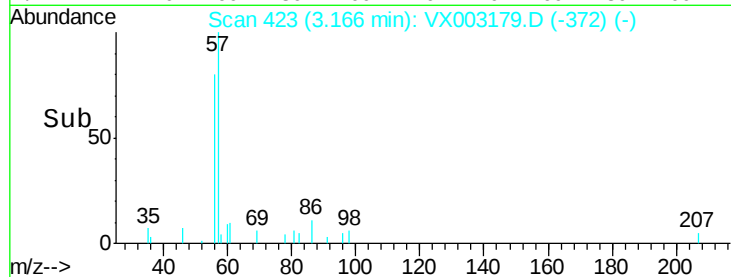
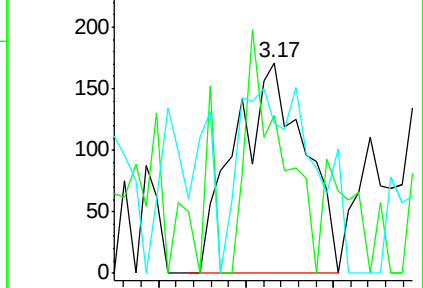
51 95.6 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 4.02 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003179.D

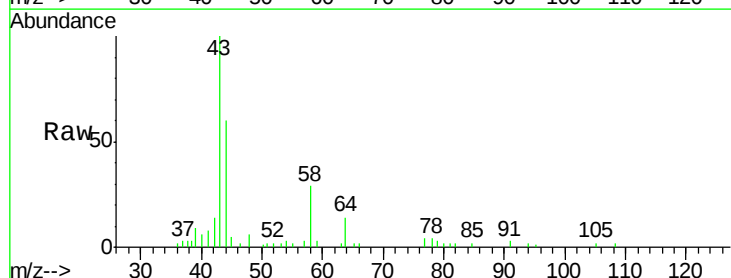
Acq: 05 Jul 2018 18:20

Tgt Ion: 43 Resp: 6093

Ion Ratio Lower Upper

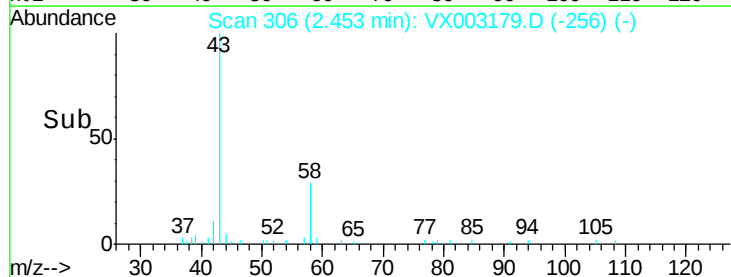
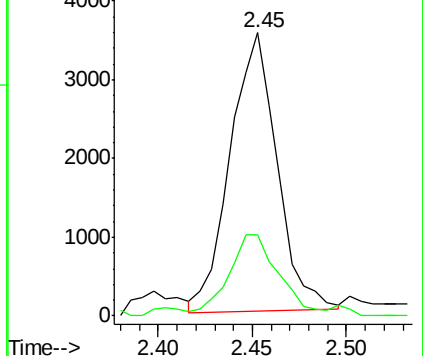
43 100

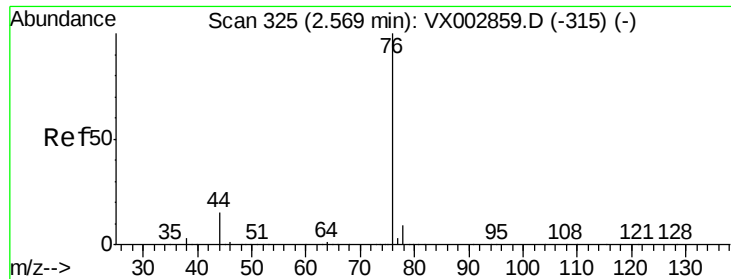
58 28.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

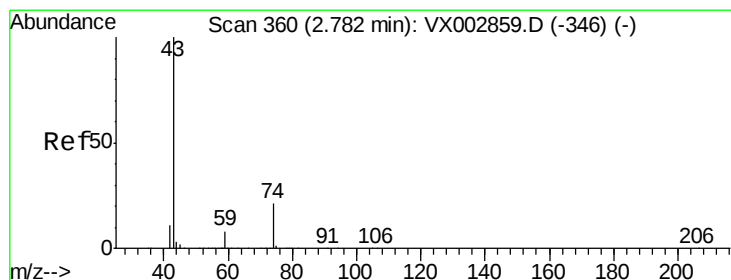
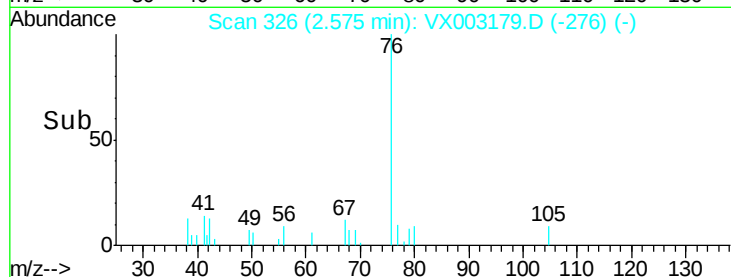
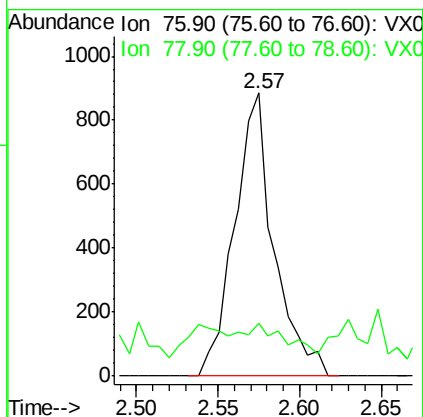
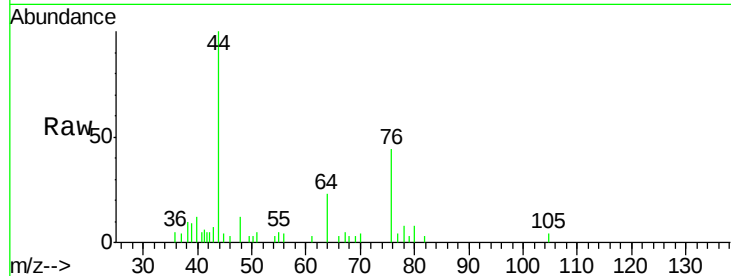




#17
Carbon Disulfide
Concen: 0.21 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX003179.D
Acq: 05 Jul 2018 18:20

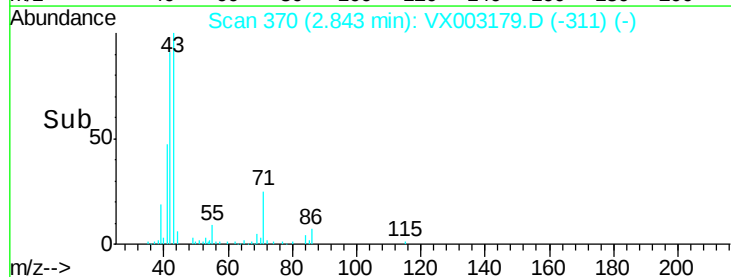
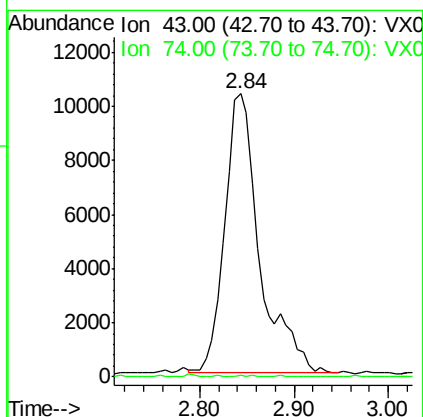
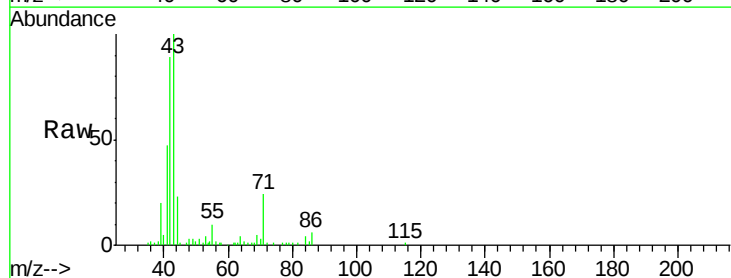
Instrument :
MSVOA_X
ClientSampleId :

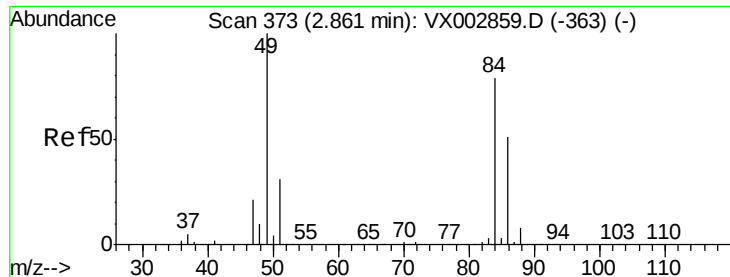
Tot Ion: 76 Resp: 1487
Ion Ratio Lower Upper
76 100
78 4.7 6.9 10.3#



#18
Methyl Acetate
Concen: 6.29 ug/l
RT: 2.84 min Scan# 370
Delta R.T. 0.06 min
Lab File: VX003179.D
Acq: 05 Jul 2018 18:20

Tgt Ion: 43 Resp: 26643
Ion Ratio Lower Upper
43 100
74 0.2 16.7 25.1#

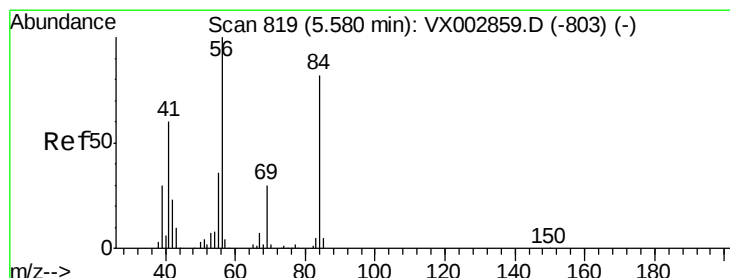
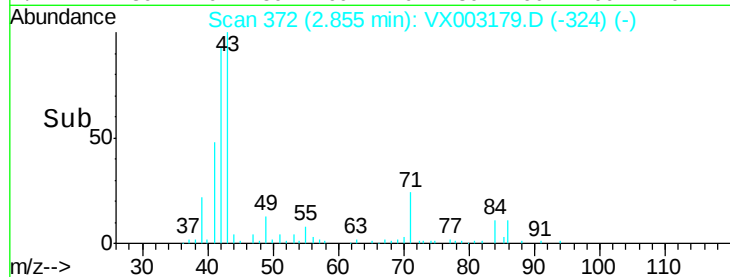
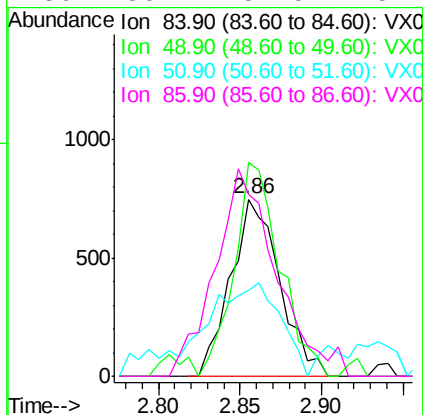
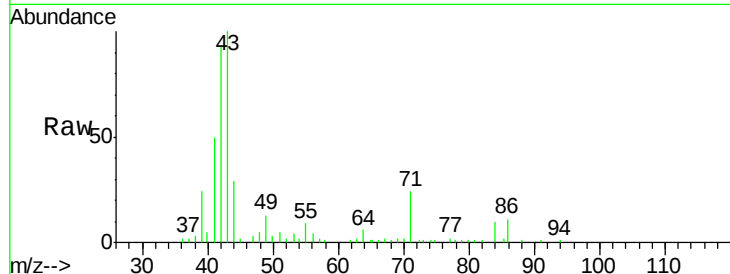




#20
Methvlene Chloride
Concen: 0.53 ug/l
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX003179.D
Acq: 05 Jul 2018 18:20

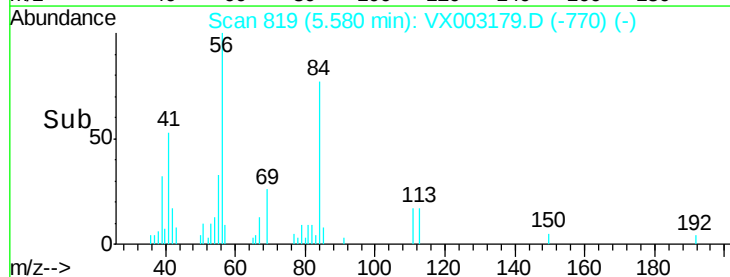
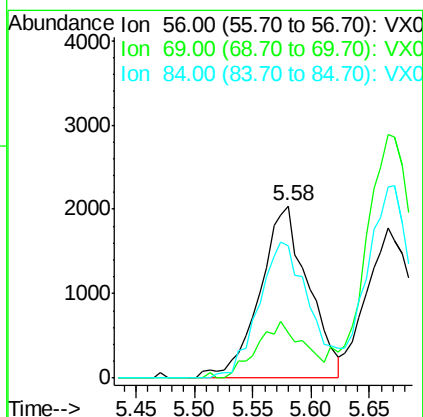
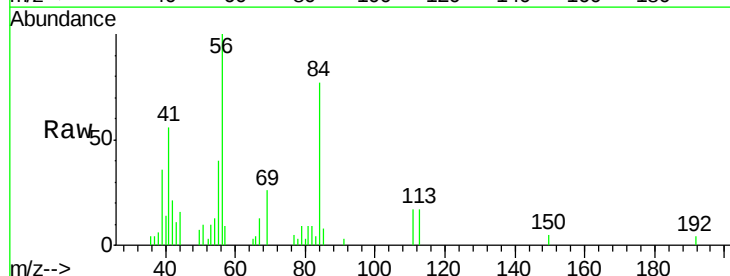
Instrument :
MSVOA_X
ClientSampled :

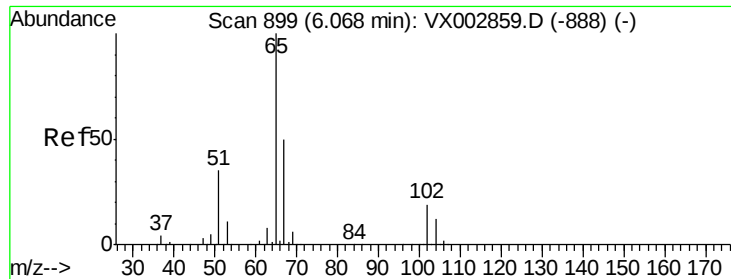
Tot Ion: 84 Resp: 1563
Ion Ratio Lower Upper
84 100
49 120.7 107.8 161.6
51 35.3 32.8 49.2
86 86.4 52.5 78.7#



#31
Cyclohexane
Concen: 1.29 ug/l
RT: 5.58 min Scan# 819
Delta R.T. 0.00 min
Lab File: VX003179.D
Acq: 05 Jul 2018 18:20

Tgt Ion: 56 Resp: 5899
Ion Ratio Lower Upper
56 100
69 26.5 23.7 35.5
84 76.9 64.1 96.1





#33

1,2-Dichloroethane-d4

Concen: 46.37 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

Instrument :

MSVOA_X

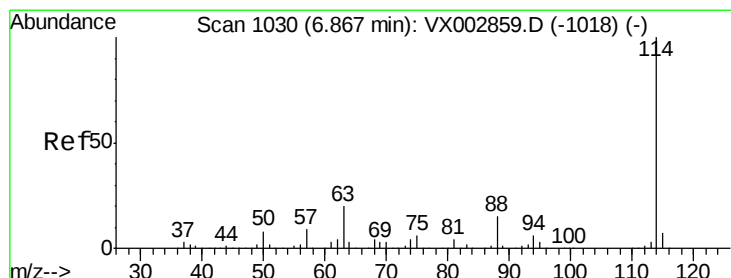
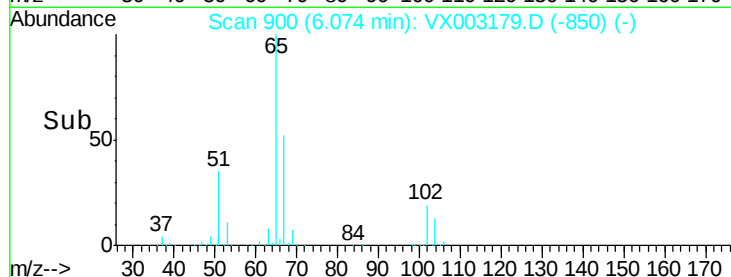
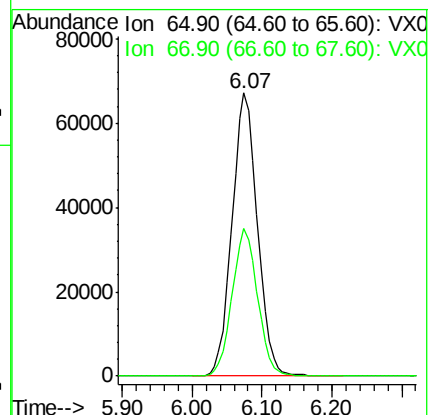
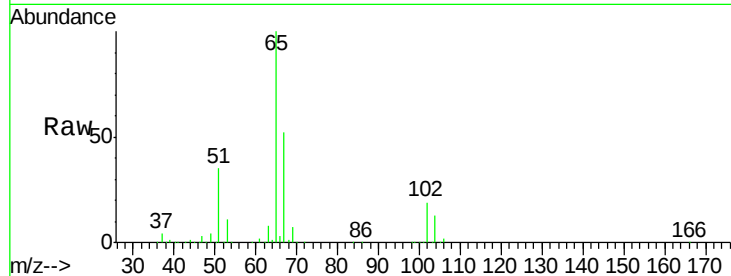
ClientSampleId :

Tot Ion: 65 Resp: 169545

Ion Ratio Lower Upper

65 100

67 52.0 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

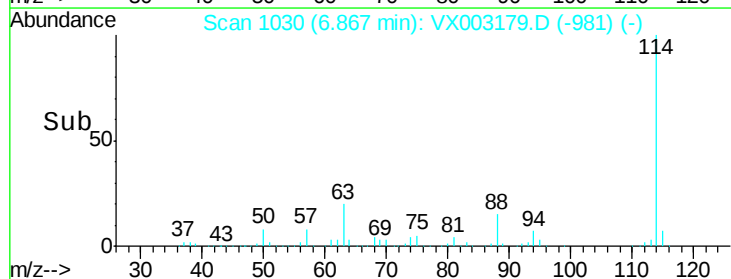
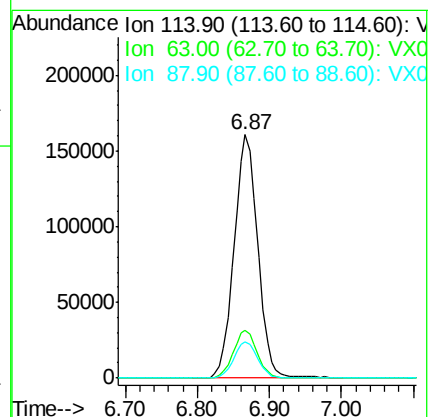
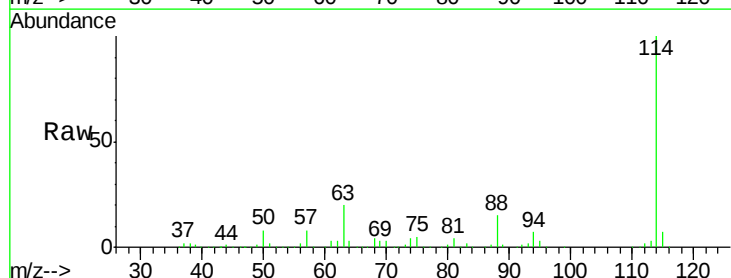
Tgt Ion: 114 Resp: 368166

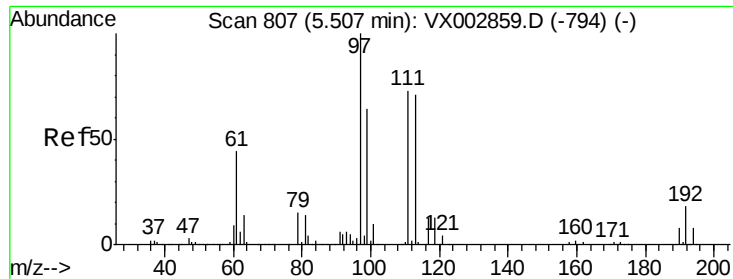
Ion Ratio Lower Upper

114 100

63 19.5 0.0 41.4

88 14.9 0.0 30.0

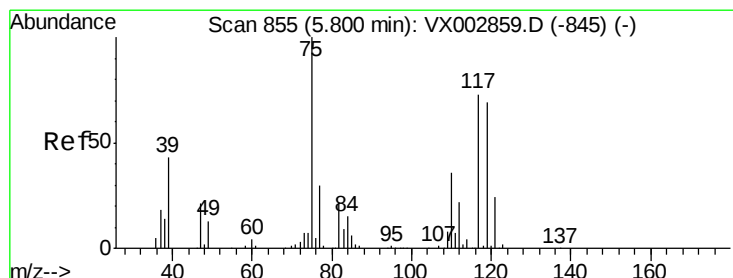
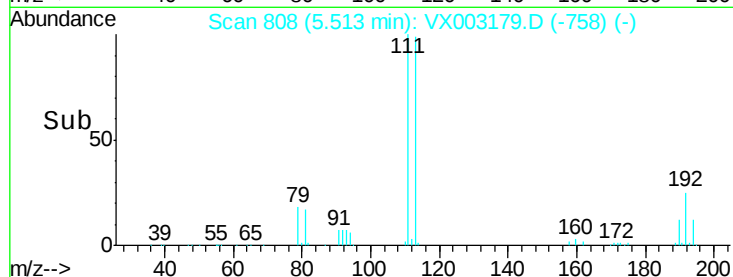
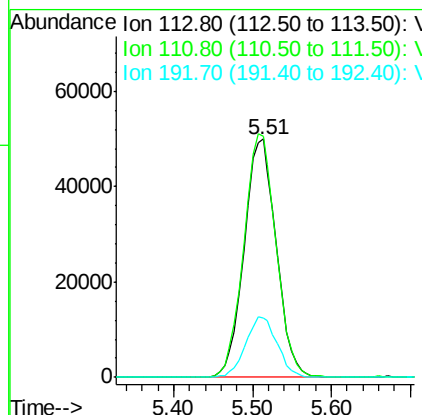
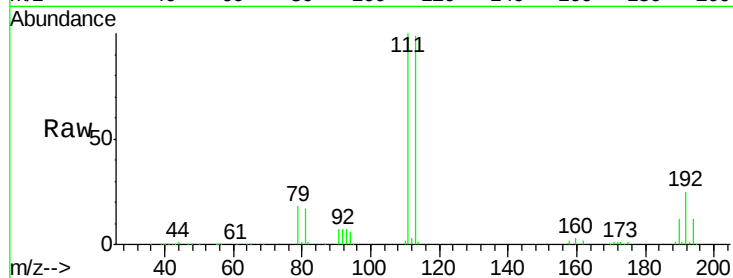




#35
 Dibromofluoromethane
 Concen: 48.53 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX003179.D
 Acq: 05 Jul 2018 18:20

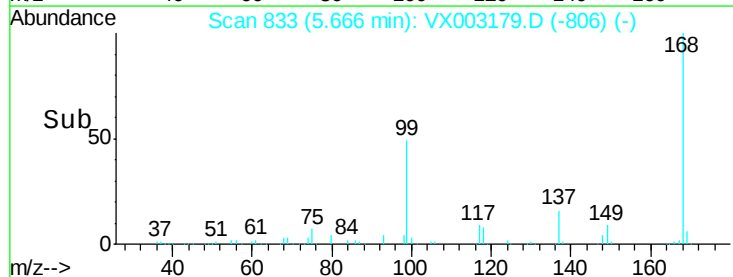
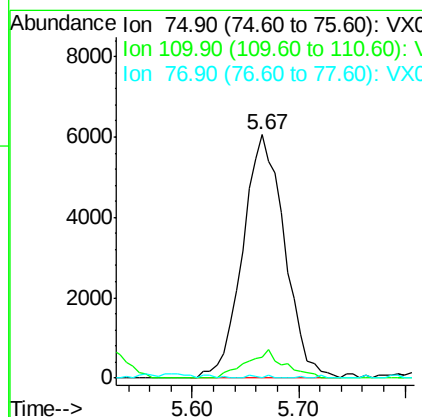
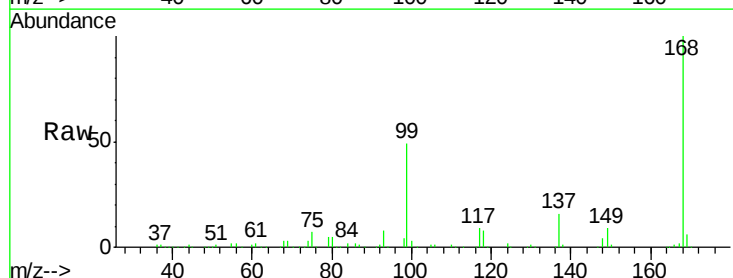
Instrument :
 MSVOA_X
 ClientSampleId :

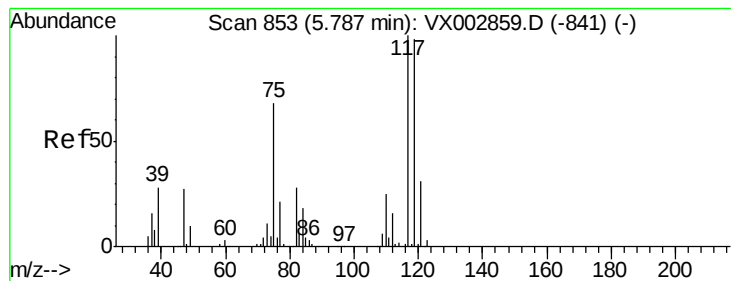
Tot Ion:113 Resp: 141486
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.4 122.0
 192 25.1 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.14 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003179.D
 Acq: 05 Jul 2018 18:20

Tgt Ion: 75 Resp: 16732
 Ion Ratio Lower Upper
 75 100
 110 10.6 18.1 54.4#
 77 0.3 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.38 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

Instrument :

MSVOA_X

ClientSampleId :

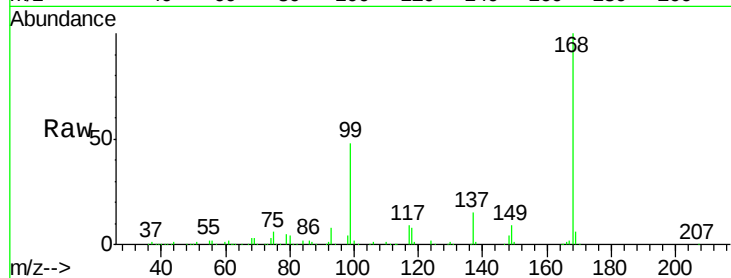
Tot Ion:117 Resp: 23852

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

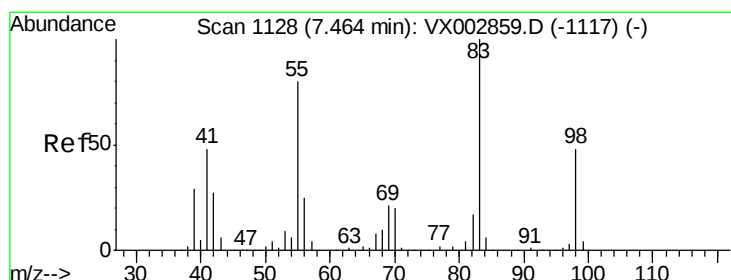
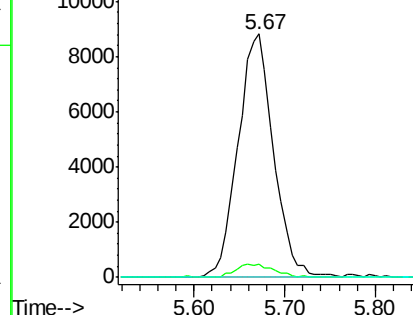
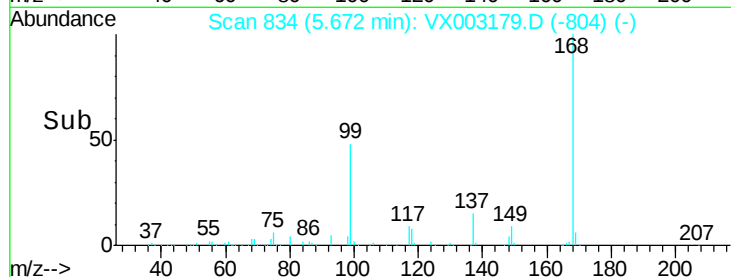
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.83 ug/l

RT: 7.47 min Scan# 1129

Delta R.T. 0.01 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

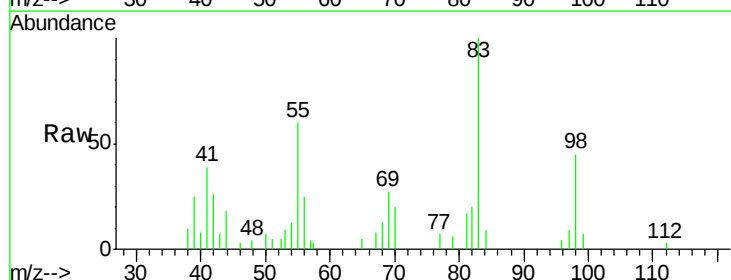
Tgt Ion: 83 Resp: 3894

Ion Ratio Lower Upper

83 100

55 59.9 65.4 98.0#

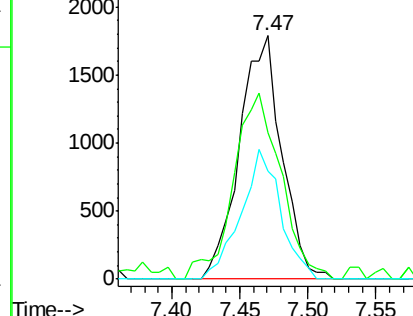
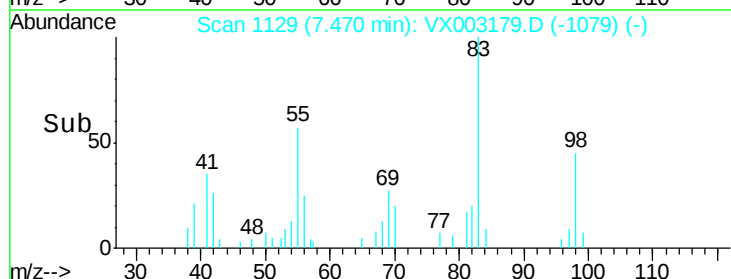
98 44.6 37.4 56.0

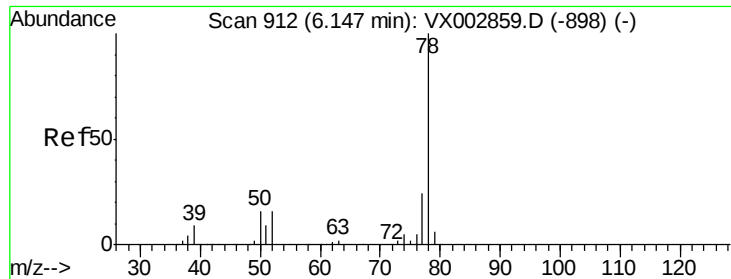


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Benzene

Concen: 13.52 ug/l

RT: 6.15 min Scan# 912

Delta R.T. 0.00 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

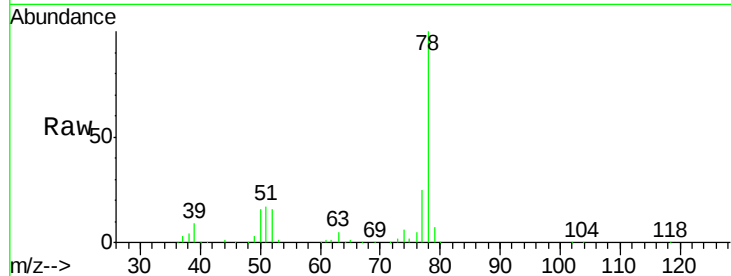
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 78 Resp: 158599

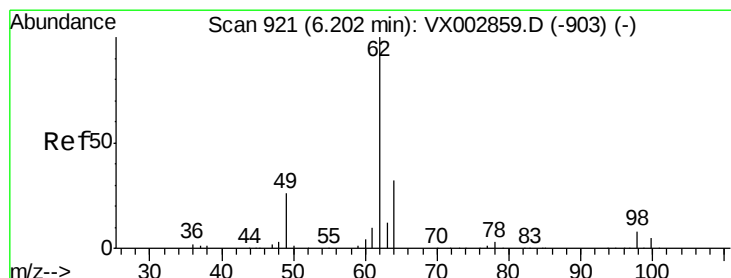
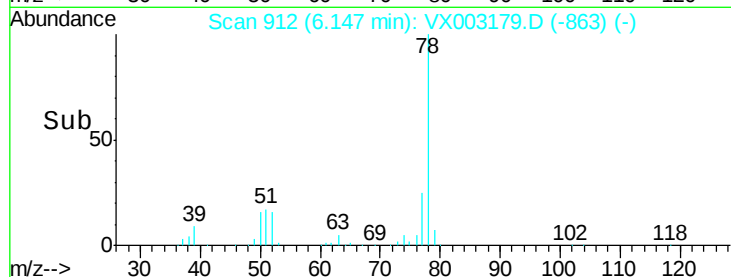
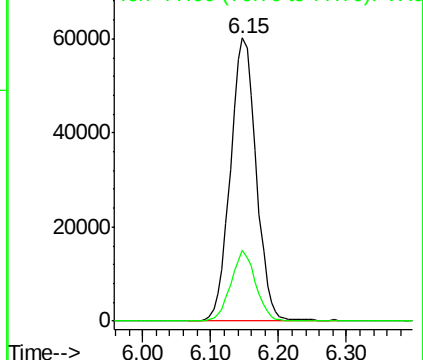
Ion Ratio Lower Upper

78 100

77 24.9 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0



#42

1,2-Dichloroethane

Concen: 0.41 ug/l

RT: 6.17 min Scan# 916

Delta R.T. -0.03 min

Lab File: VX003179.D

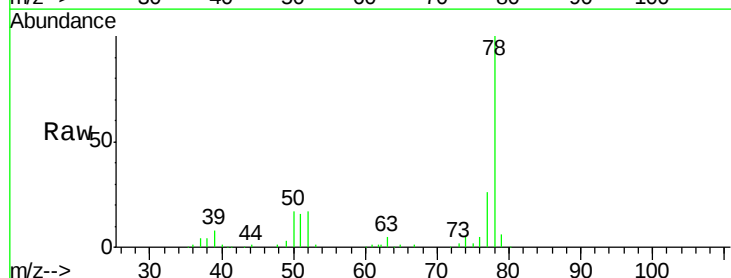
Acq: 05 Jul 2018 18:20

Tgt Ion: 62 Resp: 1924

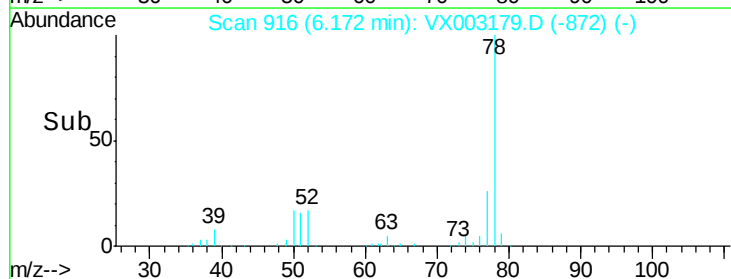
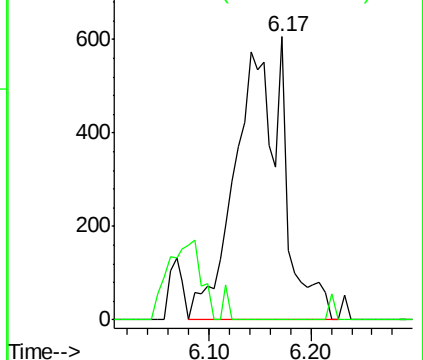
Ion Ratio Lower Upper

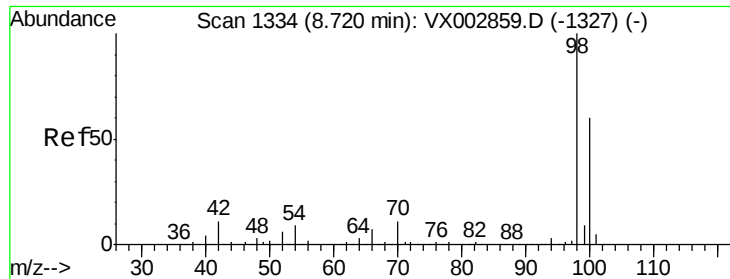
62 100

98 0.0 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VX0
Ion 97.90 (97.60 to 98.60): VX0

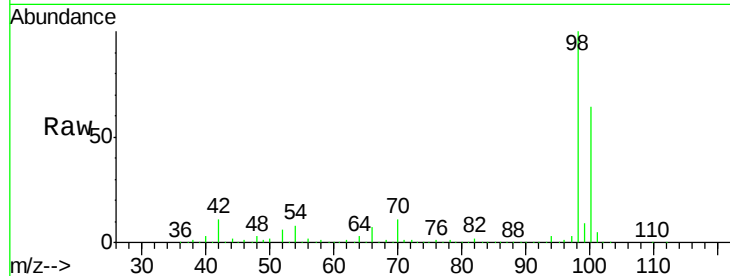




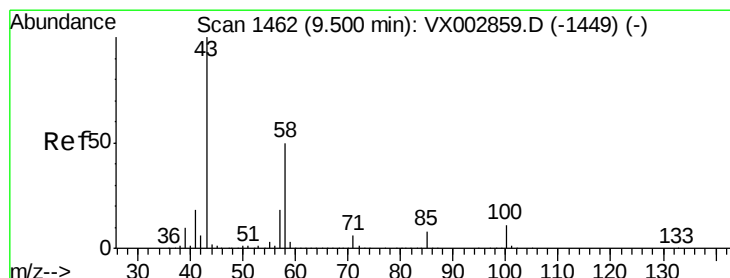
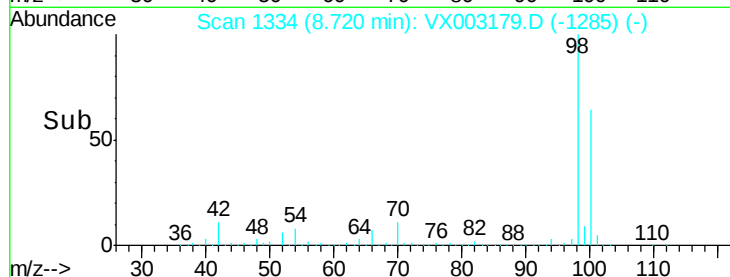
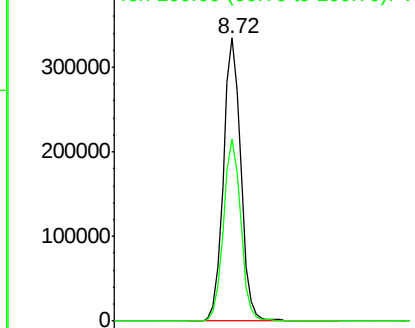
#50
Toluene-d8
Concen: 48.24 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003179.D
Acq: 05 Jul 2018 18:20

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 98 Resp: 513639
Ion Ratio Lower Upper
98 100
100 64.2 50.9 76.3

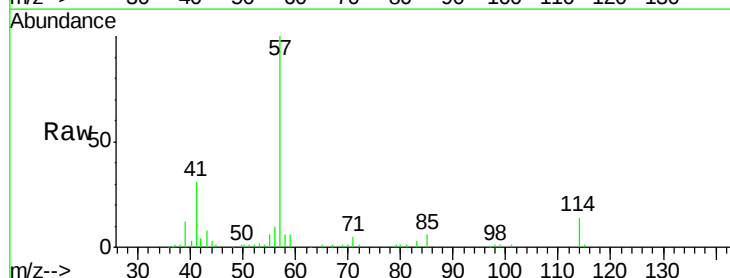


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX

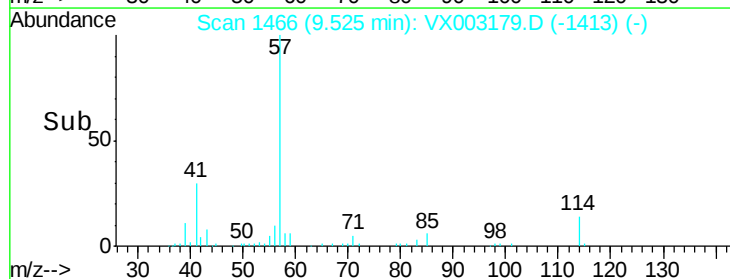
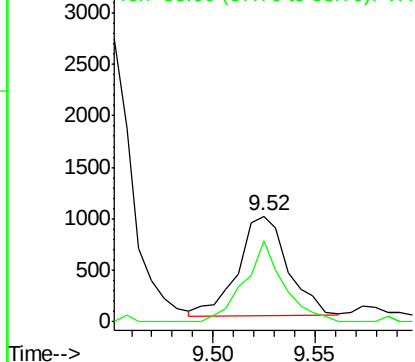


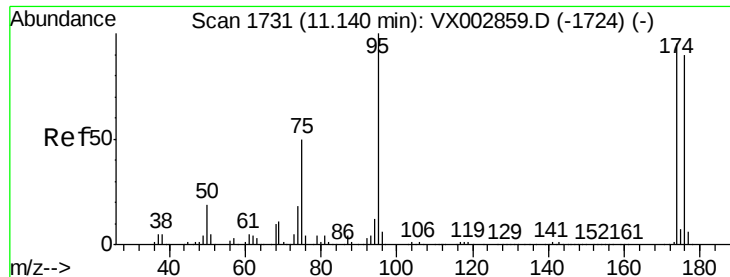
#59
2-Hexanone
Concen: 0.48 ug/l
RT: 9.52 min Scan# 1466
Delta R.T. 0.02 min
Lab File: VX003179.D
Acq: 05 Jul 2018 18:20

Tgt Ion: 43 Resp: 1650
Ion Ratio Lower Upper
43 100
58 63.3 24.6 73.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.71 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

Instrument :

MSVOA_X

ClientSampleId :

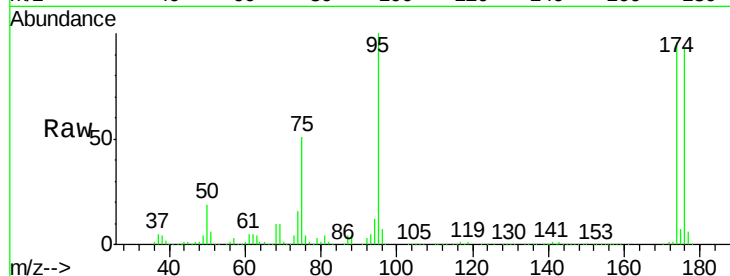
Tot Ion: 95 Resp: 183581

Ion Ratio Lower Upper

95 100

174 99.6 0.0 187.4

176 96.7 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002859.D (-1724) (-)

11.14

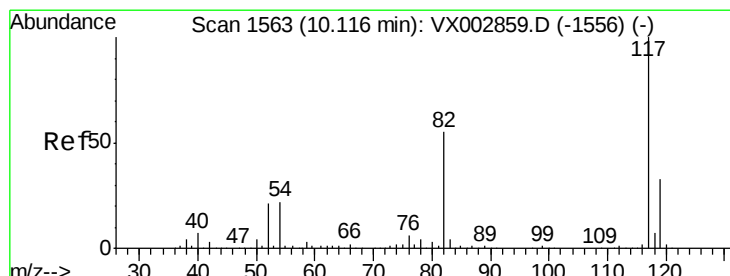
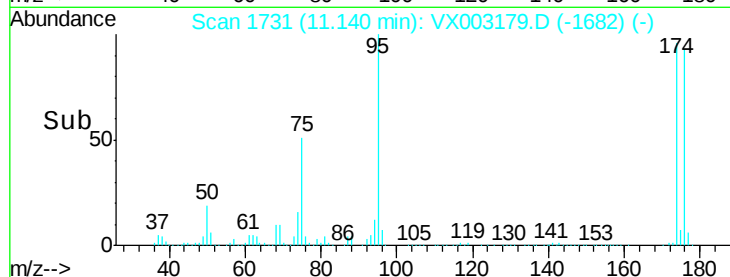
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

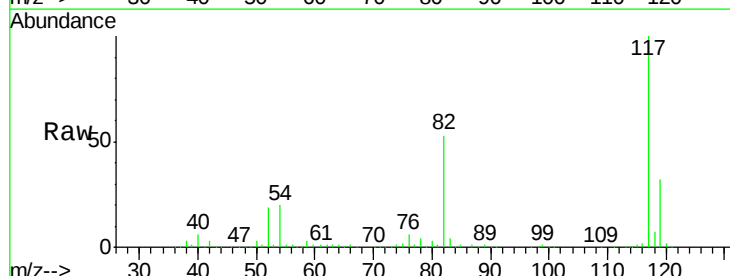
Tgt Ion: 117 Resp: 353000

Ion Ratio Lower Upper

117 100

82 52.8 45.0 67.4

119 32.3 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)

10.12

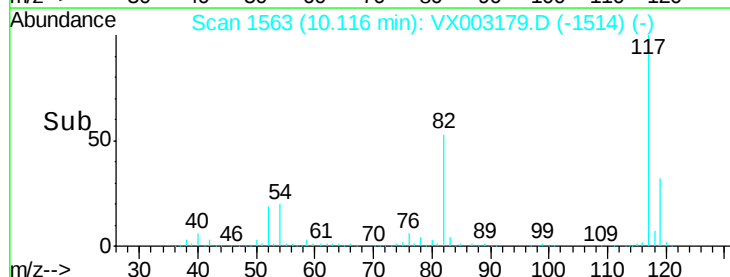
300000

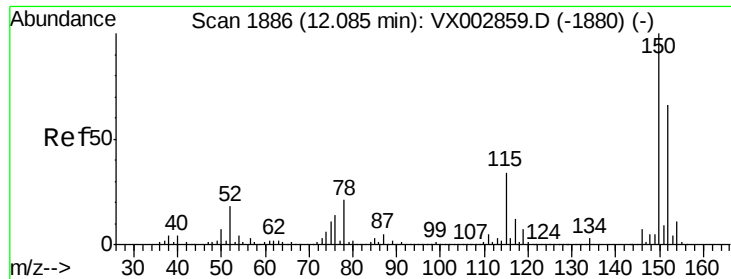
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

Instrument :

MSVOA_X

ClientSampleId :

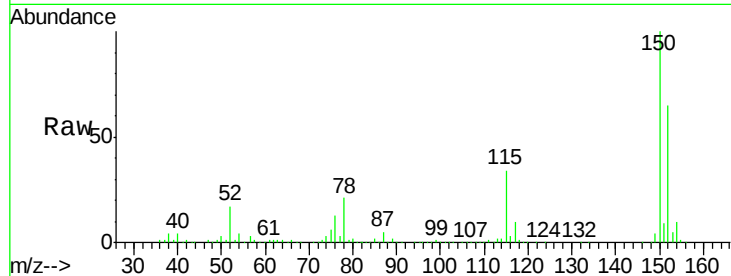
Tot Ion:152 Resp: 194322

Ion Ratio Lower Upper

152 100

115 53.9 40.1 120.2

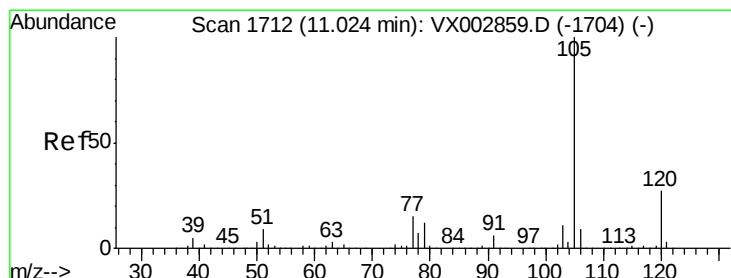
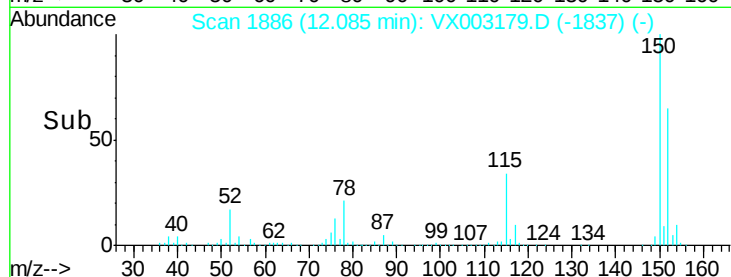
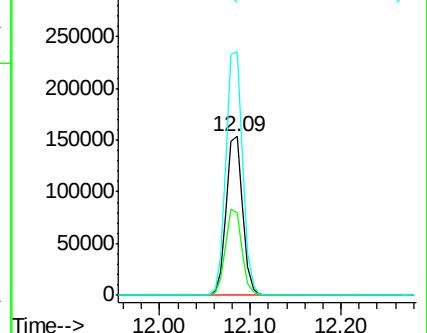
150 155.9 0.0 347.2



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



#73

Isopropylbenzene

Concen: 0.30 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. 0.00 min

Lab File: VX003179.D

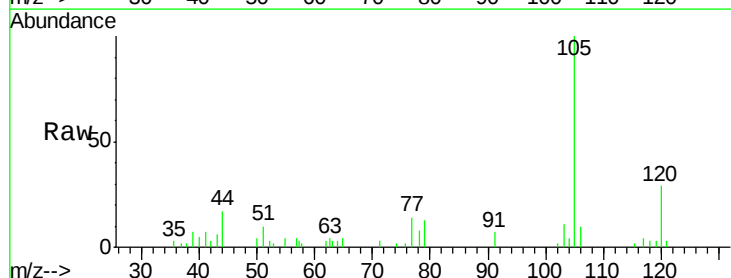
Acq: 05 Jul 2018 18:20

Tgt Ion:105 Resp: 3872

Ion Ratio Lower Upper

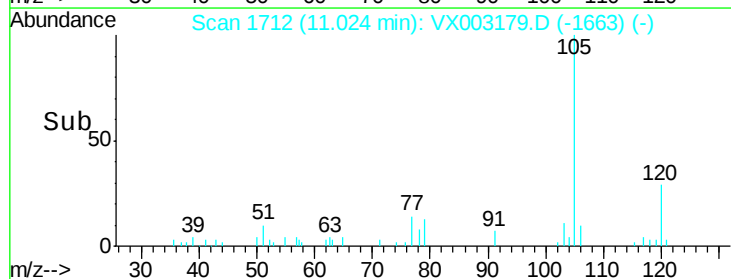
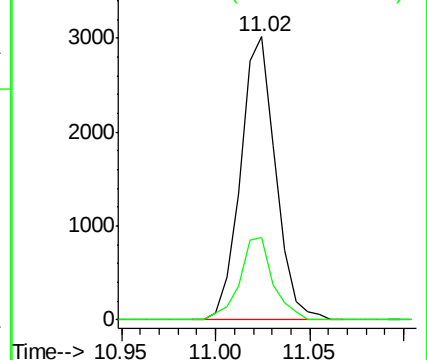
105 100

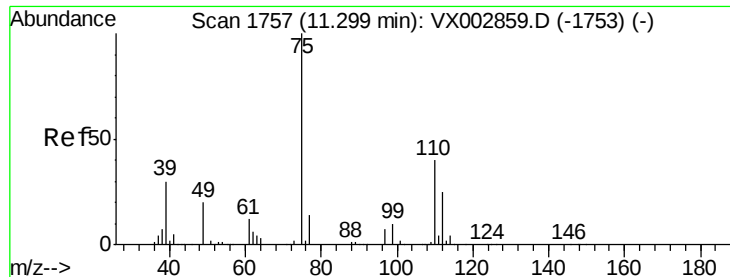
120 27.8 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

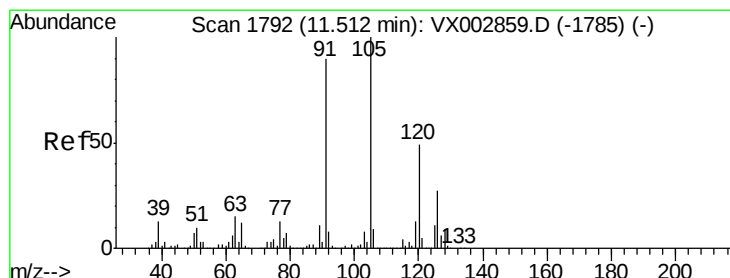
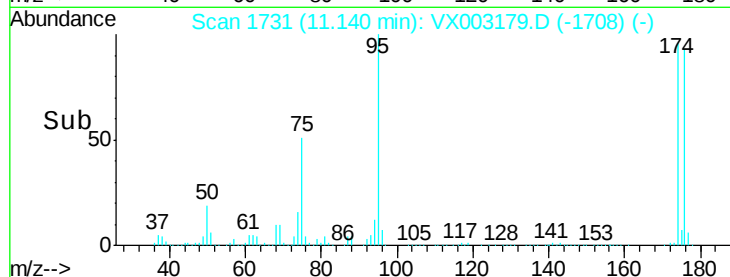
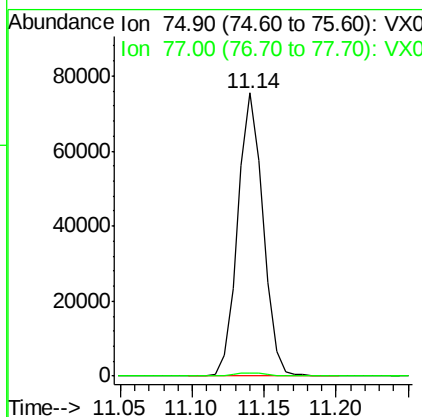
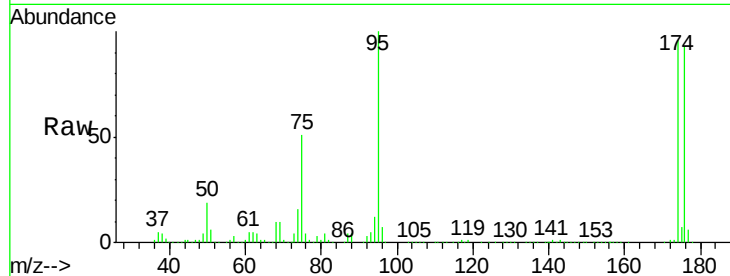




#76
 1,2,3-Trichloropropane
 Concen: 26.33 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003179.D
 Acq: 05 Jul 2018 18:20

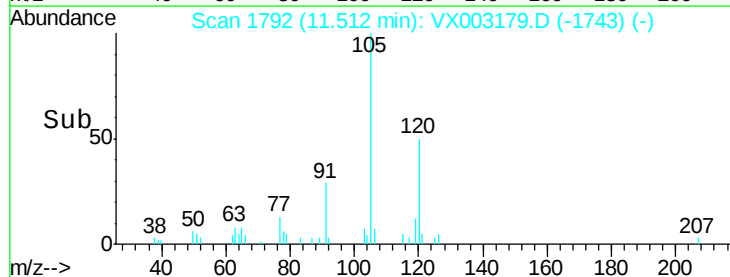
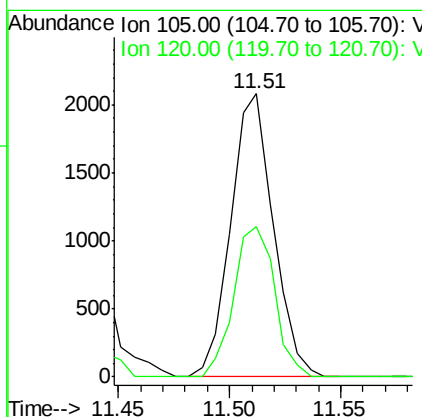
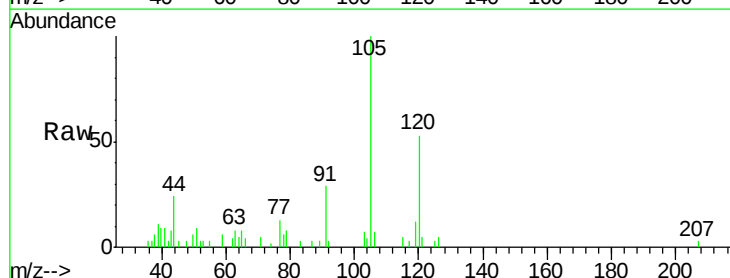
Instrument :
 MSVOA_X
 ClientSampleId :

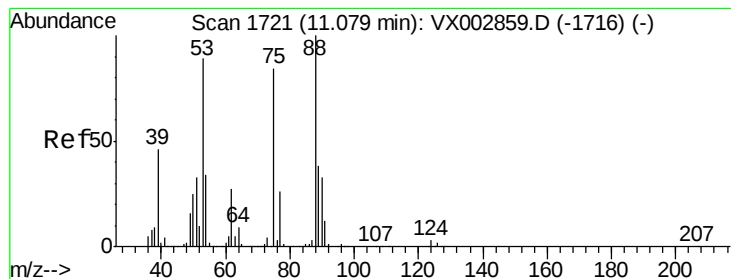
Tot Ion: 75 Resp: 92672
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.25 ug/l
 RT: 11.51 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX003179.D
 Acq: 05 Jul 2018 18:20

Tgt Ion: 105 Resp: 2764
 Ion Ratio Lower Upper
 105 100
 120 51.2 24.4 73.4





#81

trans-1,4-Dichloro-2-butene

Concen: 74.61 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003179.D

Acq: 05 Jul 2018 18:20

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 92672

Ion Ratio Lower Upper

75 100

53 0.4 86.8 130.2#

89 0.0 38.2 57.2#

