

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101818\
 Data File : VX005438.D
 Acq On : 18 Oct 2018 18:50
 Operator : JC/MD
 Sample : J5200-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OR-01-101618-A

Quant Time: Oct 19 03:35:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	304958	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	420150	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	376147	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	180970	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	162110	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
35) Dibromofluoromethane	5.50	113	134460	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
50) Toluene-d8	8.71	98	498543	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
62) 4-Bromofluorobenzene	11.14	95	164537	45.85	ug/l	0.00
Spiked Amount			Recovery	=	91.70%	

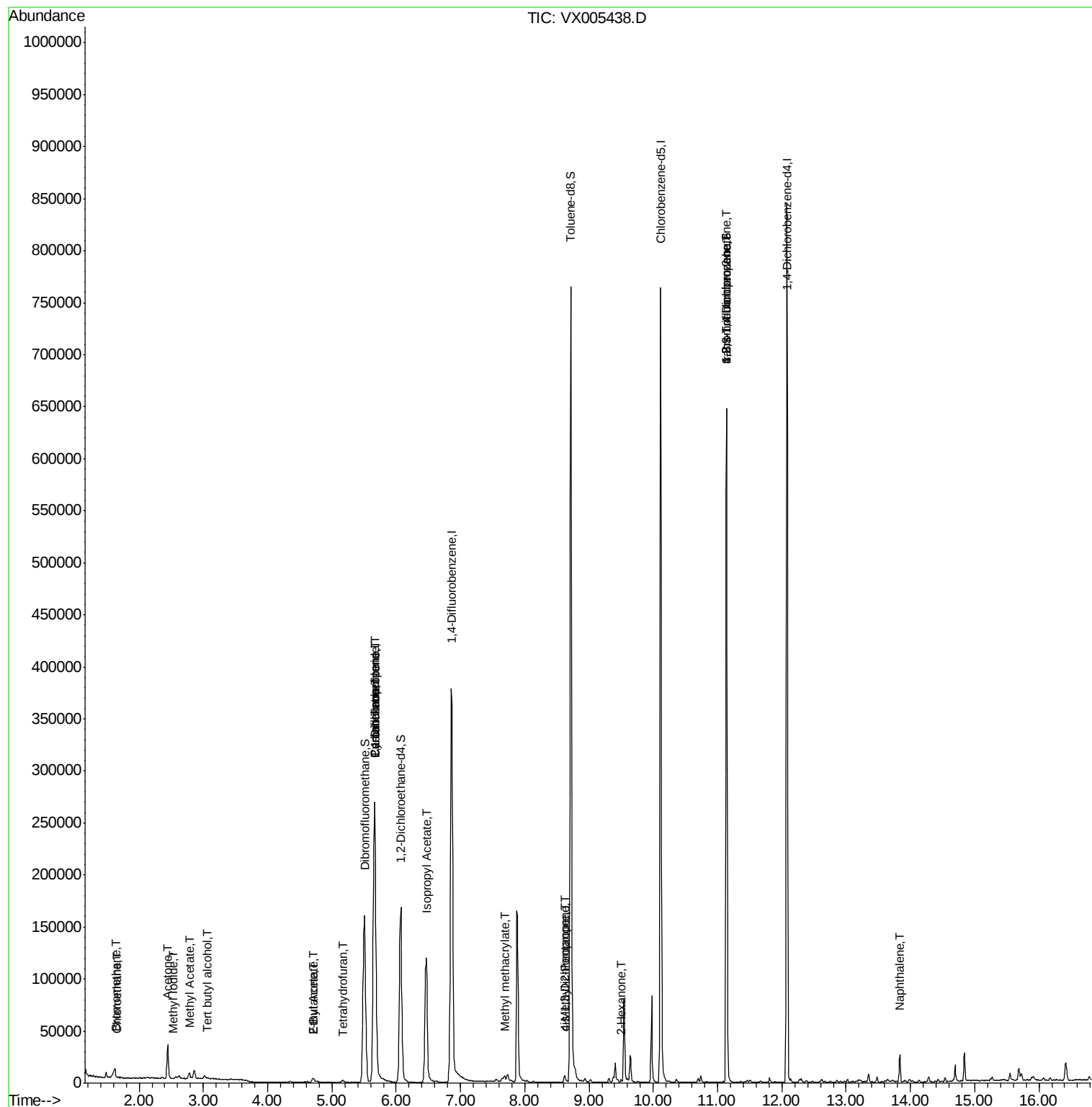
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	261	0.715	ug/l #	54
6) Chloroethane	1.66	64	74	0.367	ug/l #	44
10) Methyl Iodide	2.52	142	45	2.503	ug/l #	41
11) Tert butyl alcohol	3.06	59	936	0.980	ug/l #	65
13) Acrolein	2.29	56	198	Below Cal	#	57
16) Acetone	2.45	43	31974	16.339	ug/l #	87
18) Methyl Acetate	2.78	43	7302	1.312	ug/l	97
20) Methylene Chloride	2.86	84	3368	Below Cal		98
25) 2-Butanone	4.71	43	7478	2.612	ug/l	98
29) Tetrahydrofuran	5.16	42	2041	1.118	ug/l #	87
31) Cyclohexane	5.67	56	4977	1.070	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18717	4.600	ug/l #	49
37) Ethyl Acetate	4.71	43	7478	1.429	ug/l #	67
38) Carbon Tetrachloride	5.67	117	25039	6.124	ug/l #	15
43) Isopropyl Acetate	6.47	43	171163	24.554	ug/l	96
48) Methyl methacrylate	7.69	41	7090	1.961	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	2887	0.598	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	965	0.225	ug/l #	63
59) 2-Hexanone	9.50	43	1309	0.337	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	79620	22.682	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	79620	68.918	ug/l #	10
95) Naphthalene	13.83	128	15793	1.265	ug/l	97

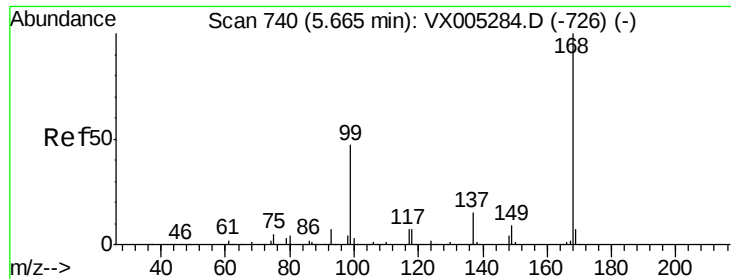
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

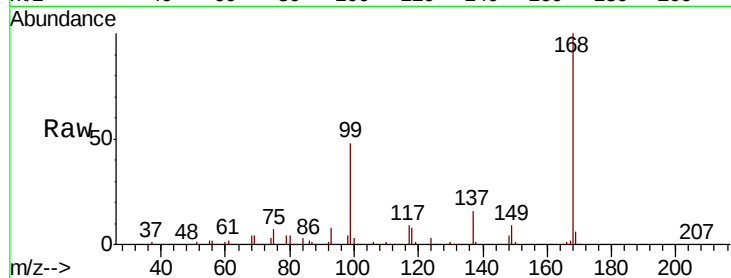
OR-01-101618-A

Tot Ion:168 Resp: 304958

Ion Ratio Lower Upper

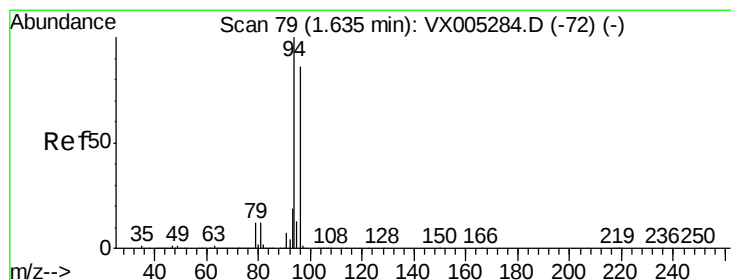
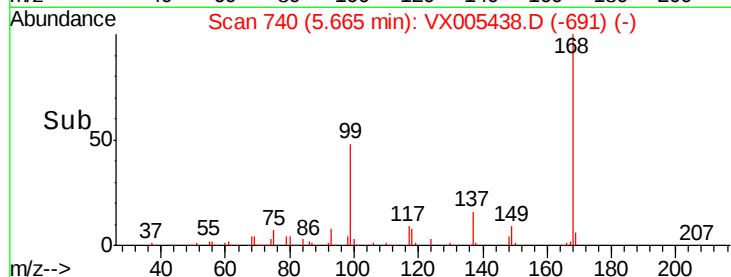
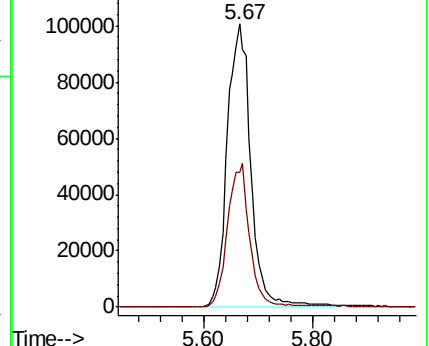
168 100

99 47.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.715 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005438.D

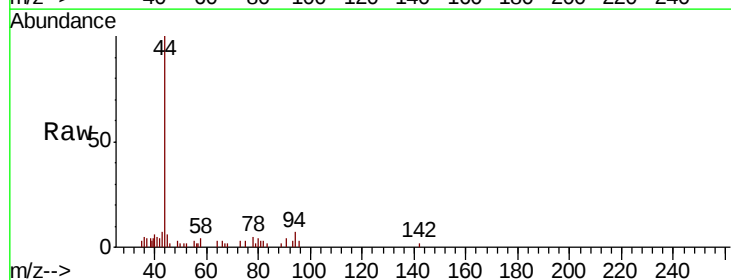
Acq: 18 Oct 2018 18:50

Tgt Ion: 94 Resp: 261

Ion Ratio Lower Upper

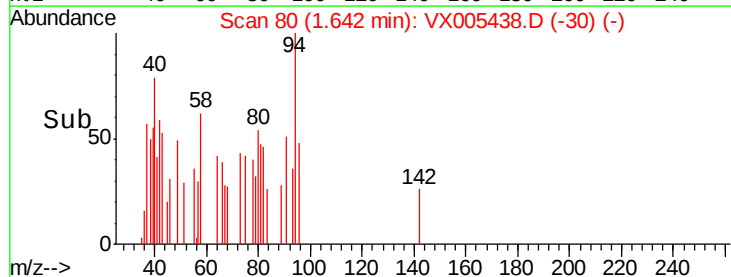
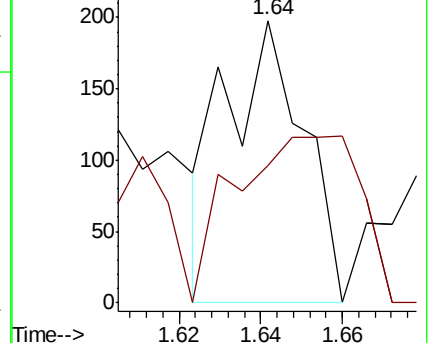
94 100

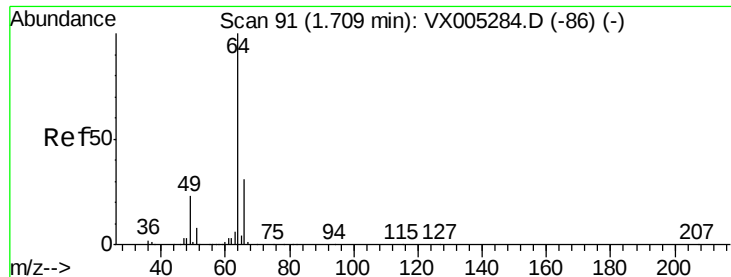
96 48.5 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.367 ug/l

RT: 1.66 min Scan# 83

Delta R.T. -0.05 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

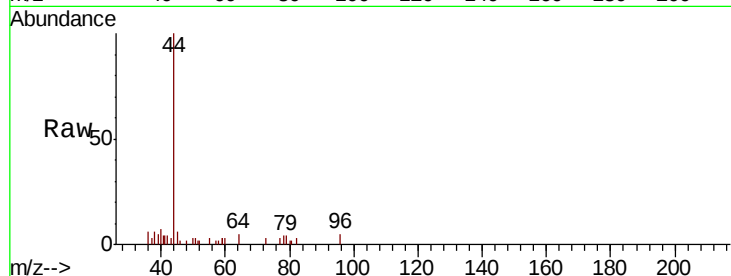
OR-01-101618-A

Tot Ion: 64 Resp: 74

Ion Ratio Lower Upper

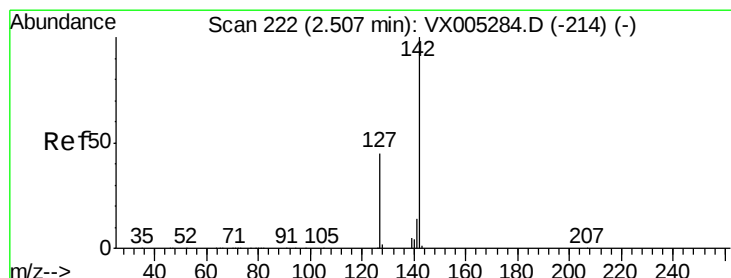
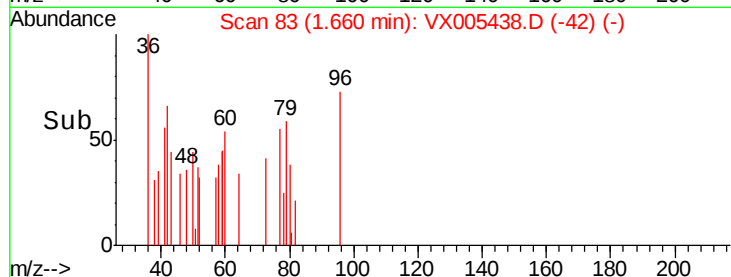
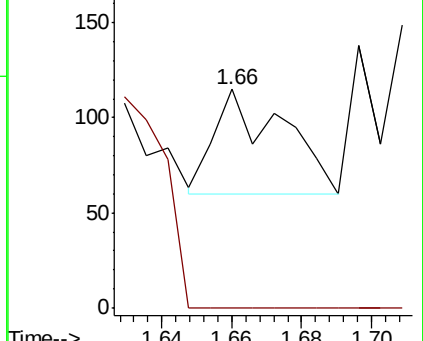
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.503 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

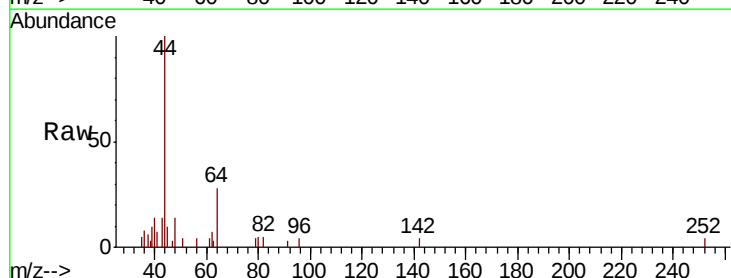
Tgt Ion: 142 Resp: 45

Ion Ratio Lower Upper

142 100

127 0.0 33.8 50.6#

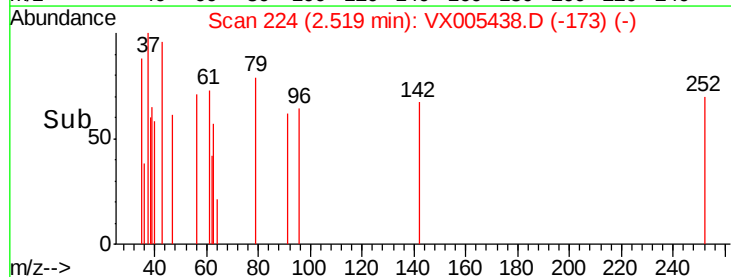
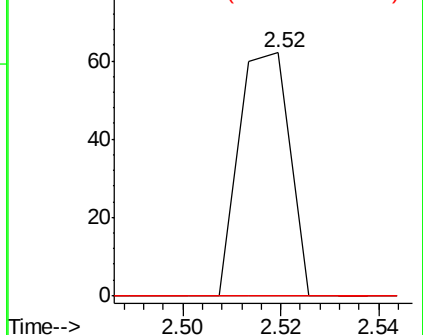
141 0.0 11.4 17.0#

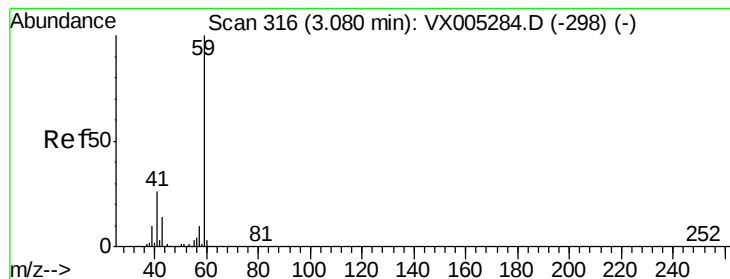


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



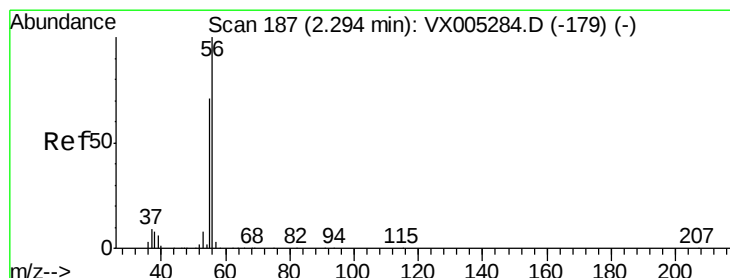
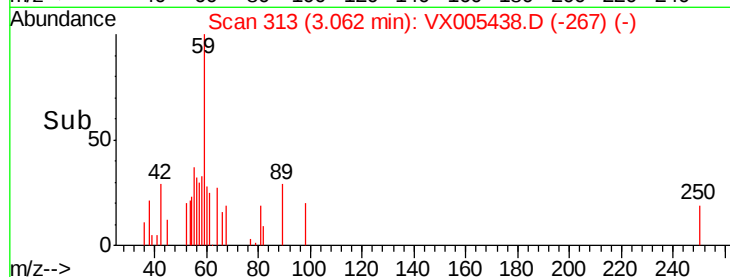
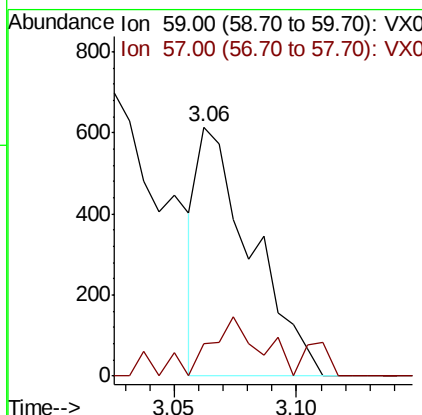
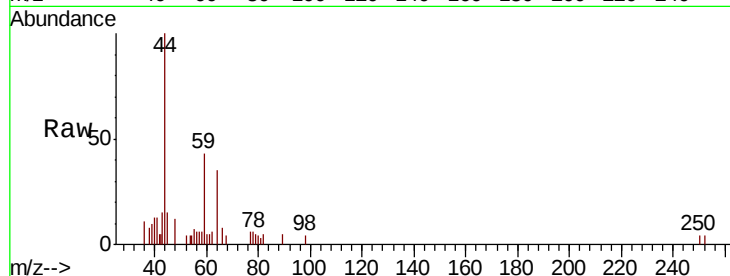


#11

Tert butyl alcohol
 Concen: 0.980 ug/l
 RT: 3.06 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX005438.D
 Acq: 18 Oct 2018 18:50

Instrument :
 MSVOA_X
 ClientSampleId :
 OR-01-101618-A

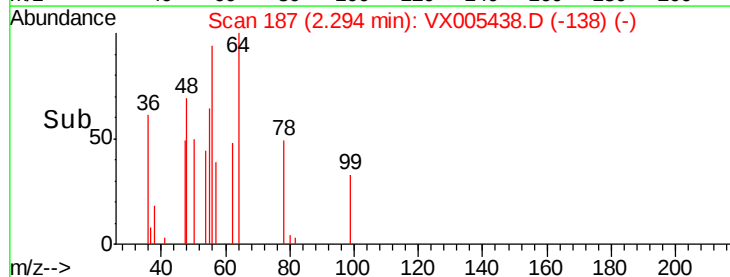
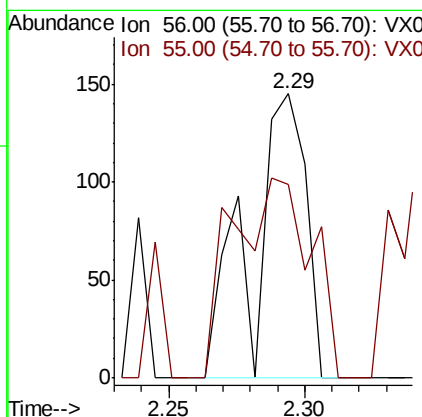
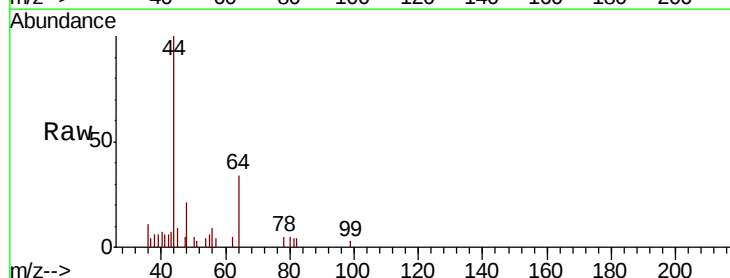
Tot Ion: 59 Resp: 936
 Ion Ratio Lower Upper
 59 100
 57 23.3 8.2 12.4#

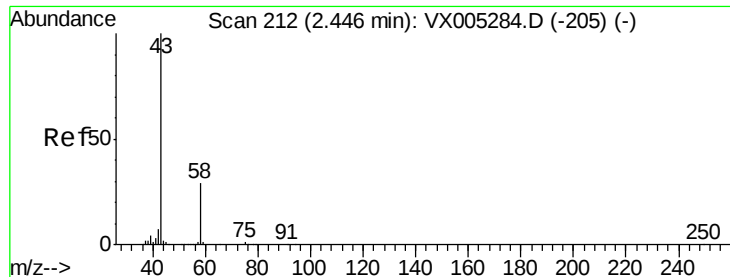


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 187
 Delta R.T. 0.00 min
 Lab File: VX005438.D
 Acq: 18 Oct 2018 18:50

Tgt Ion: 56 Resp: 198
 Ion Ratio Lower Upper
 56 100
 55 103.5 54.7 82.1#





#16

Acetone

Concen: 16.339 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

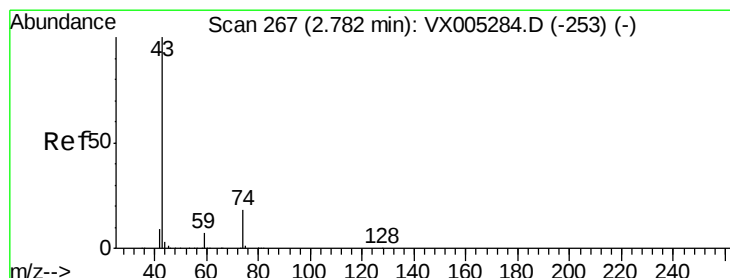
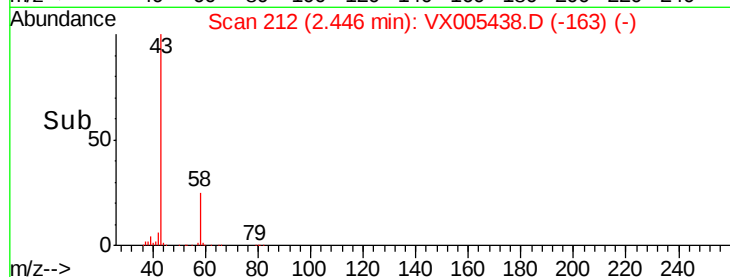
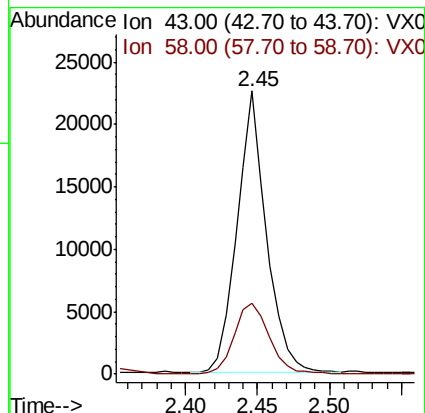
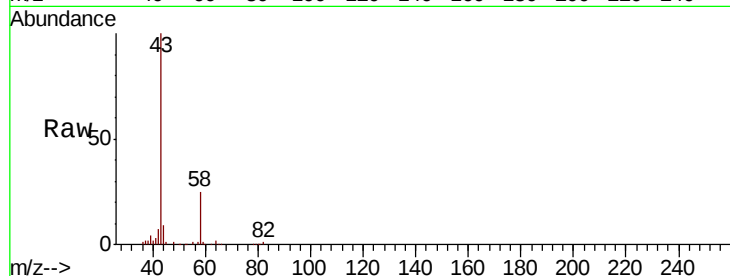
OR-01-101618-A

Tot Ion: 43 Resp: 31974

Ion Ratio Lower Upper

43 100

58 25.4 26.2 39.4#



#18

Methyl Acetate

Concen: 1.312 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005438.D

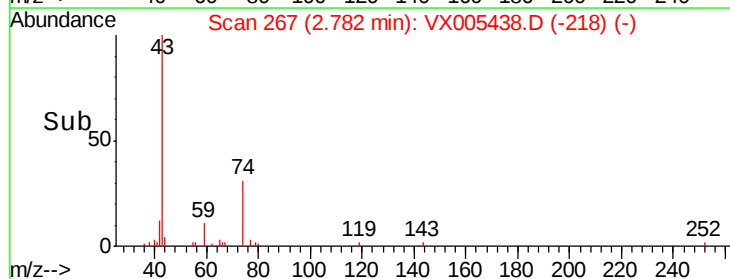
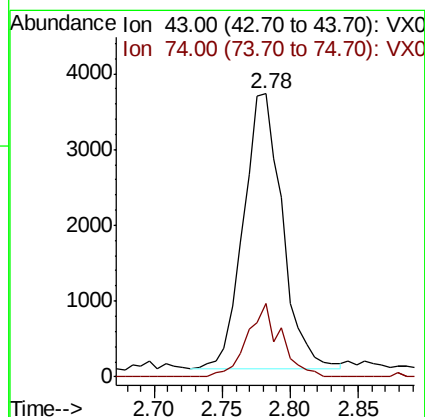
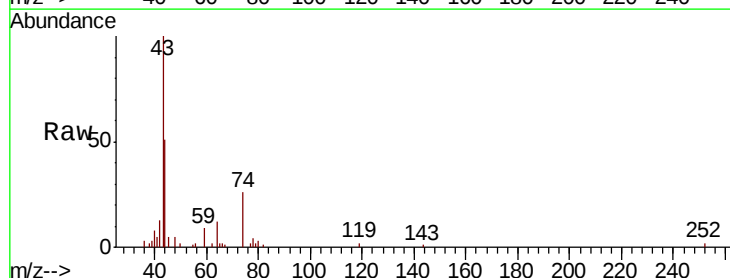
Acq: 18 Oct 2018 18:50

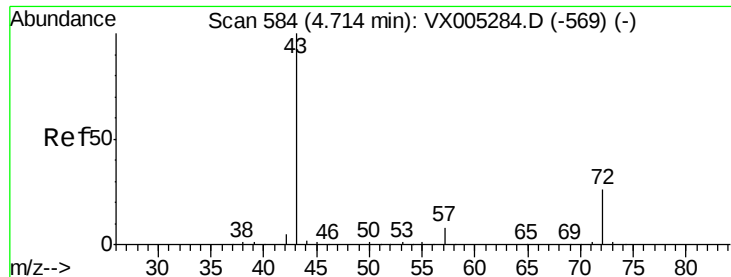
Tgt Ion: 43 Resp: 7302

Ion Ratio Lower Upper

43 100

74 22.8 19.4 29.2





#25

2-Butanone

Concen: 2.612 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.01 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

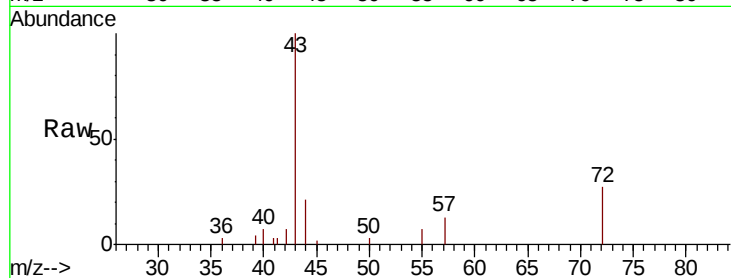
OR-01-101618-A

Tot Ion: 43 Resp: 7478

Ion Ratio Lower Upper

43 100

72 26.7 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

2500

2000

1500

1000

500

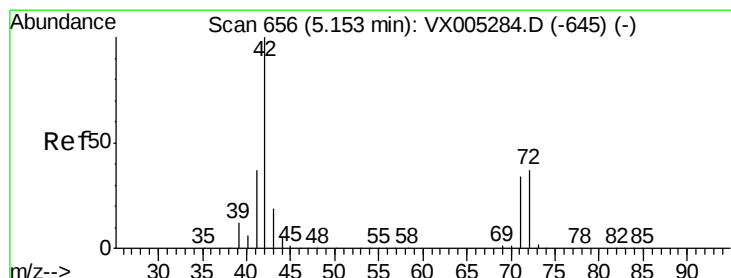
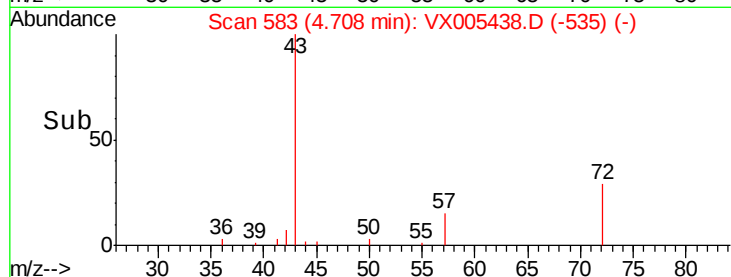
0

4.60

4.70

4.80

Time-->



#29

Tetrahydrofuran

Concen: 1.118 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

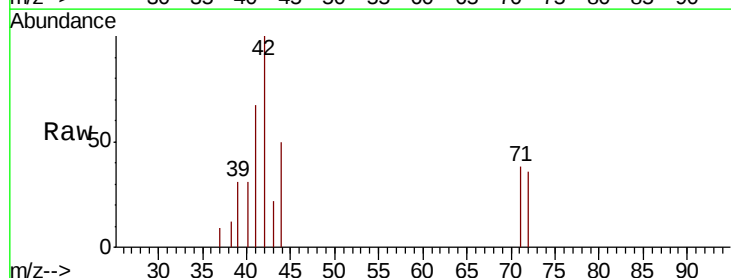
Tgt Ion: 42 Resp: 2041

Ion Ratio Lower Upper

42 100

72 38.6 37.4 56.0

71 34.1 34.5 51.7#



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

800

600

400

200

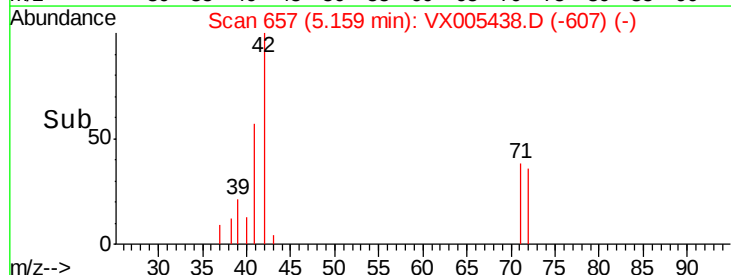
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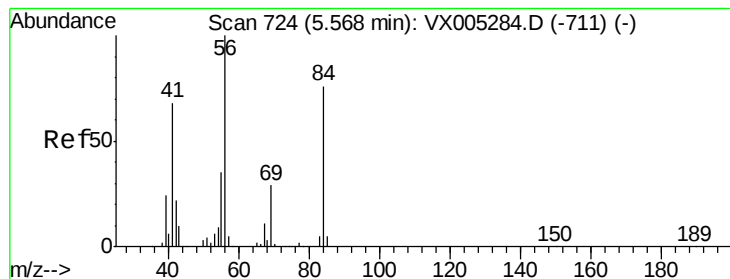
5.10

5.20

5.30

Time-->





#31

Cyclohexane

Concen: 1.070 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.10 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

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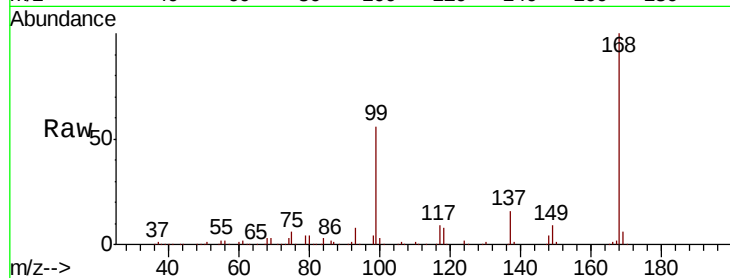
Tot Ion: 56 Resp: 4977

Ion Ratio Lower Upper

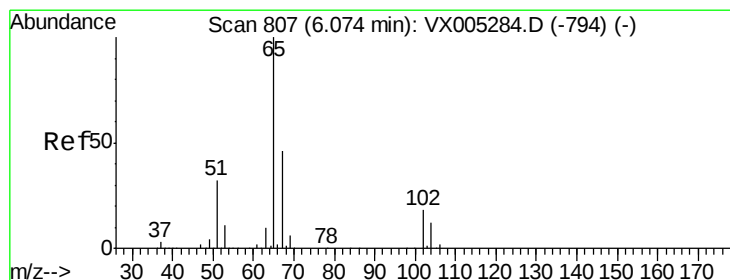
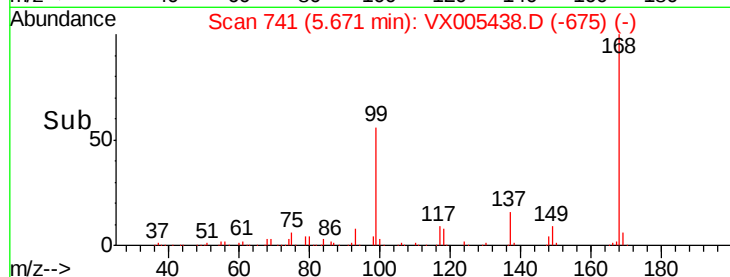
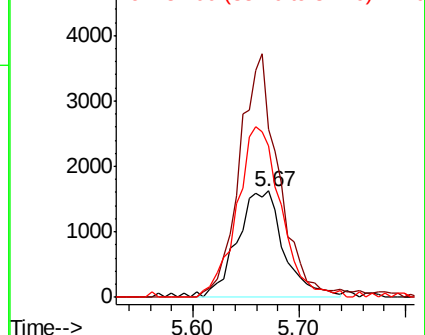
56 100

69 157.6 25.4 38.2#

84 142.8 71.4 107.2#



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: 47.897 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX005438.D

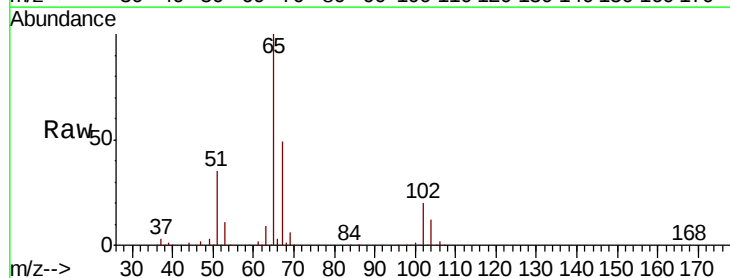
Acq: 18 Oct 2018 18:50

Tgt Ion: 65 Resp: 162110

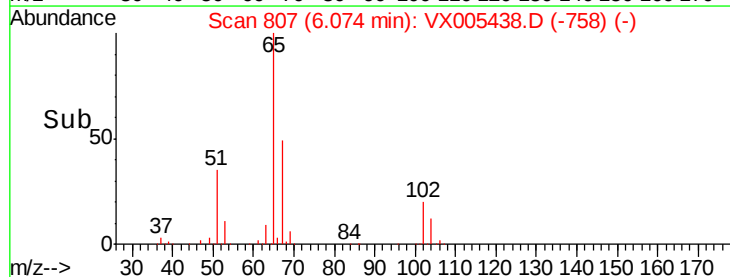
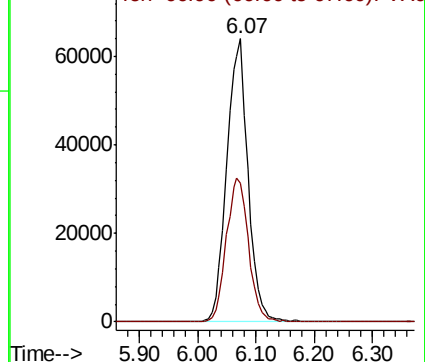
Ion Ratio Lower Upper

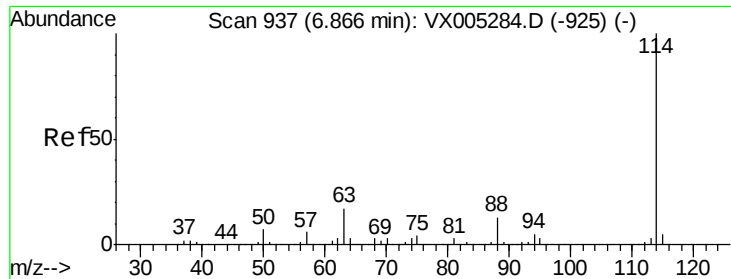
65 100

67 53.1 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

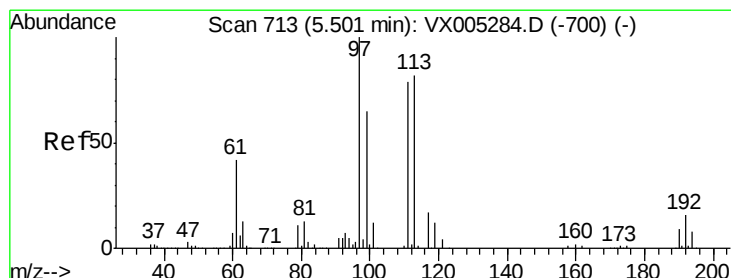
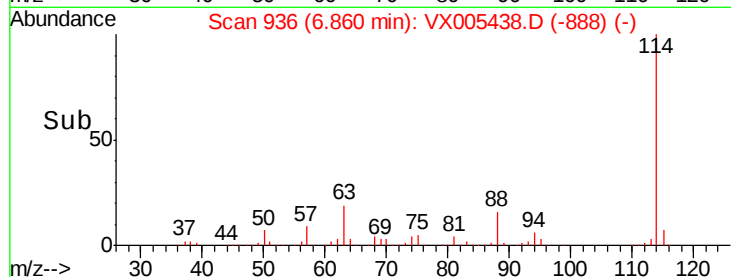
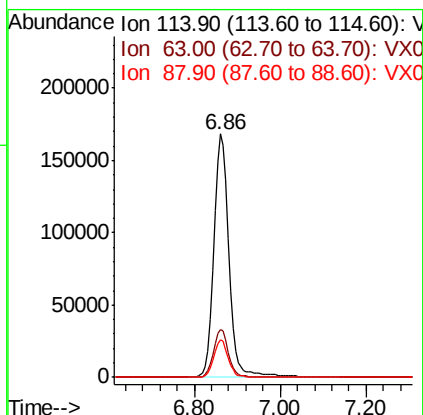
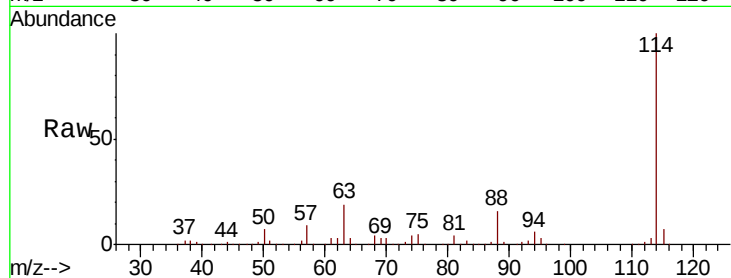




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.01 min
Lab File: VX005438.D
Acq: 18 Oct 2018 18:50

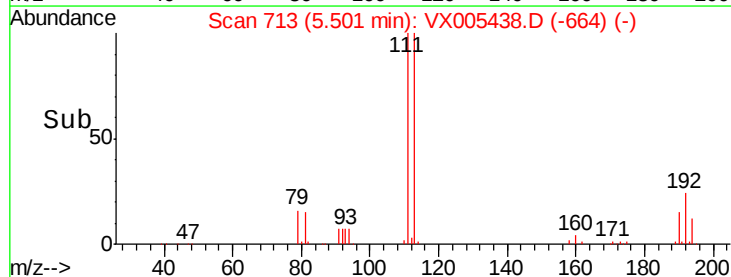
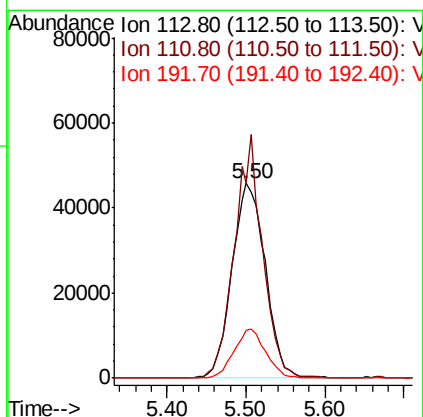
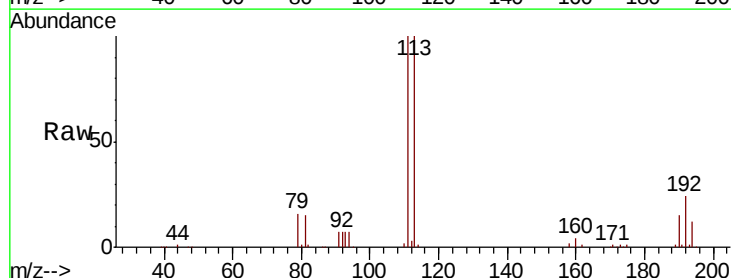
Instrument :
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ClientSampleId :
OR-01-101618-A

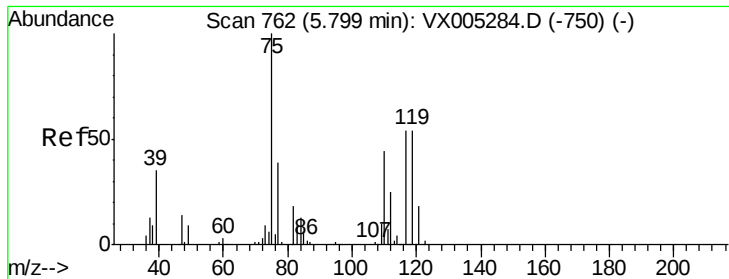
Tot Ion:114 Resp: 420150
Ion Ratio Lower Upper
114 100
63 19.5 0.0 39.0
88 15.6 0.0 30.4



#35
Dibromofluoromethane
Concen: 48.319 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX005438.D
Acq: 18 Oct 2018 18:50

Tgt Ion:113 Resp: 134460
Ion Ratio Lower Upper
113 100
111 105.4 82.4 123.6
192 24.0 19.4 29.2





#36

1,1-Dichloropropene

Concen: 4.600 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

OR-01-101618-A

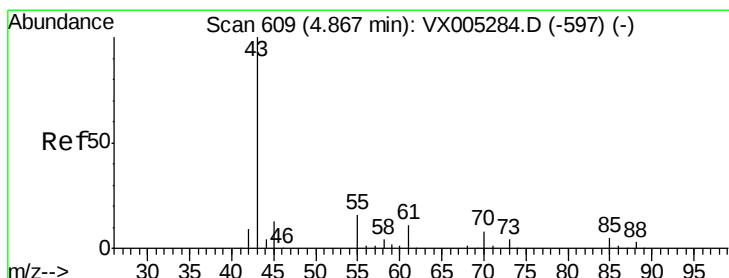
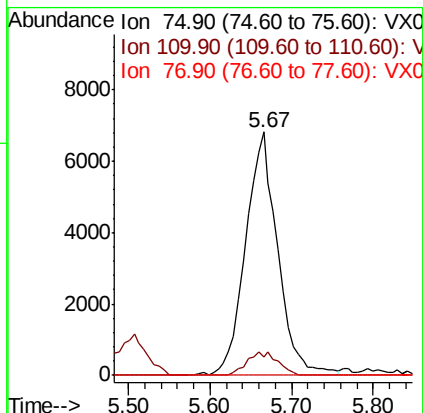
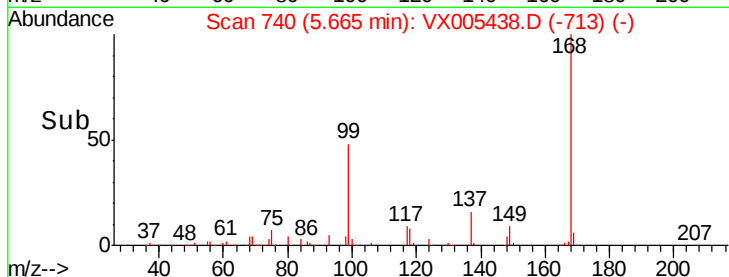
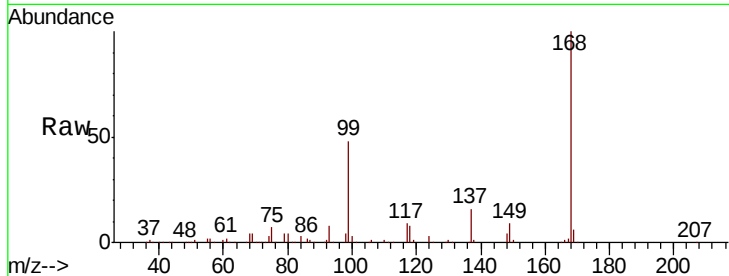
Tot Ion: 75 Resp: 18717

Ion Ratio Lower Upper

75 100

110 9.1 18.0 54.0#

77 0.0 24.6 36.8#



#37

Ethyl Acetate

Concen: 1.429 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

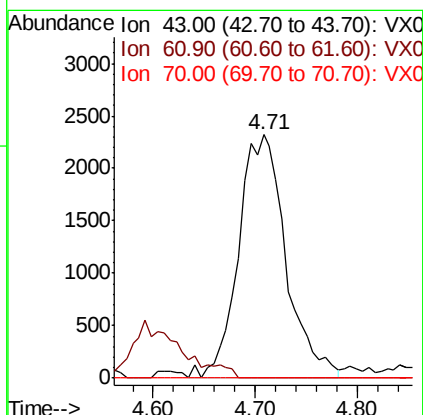
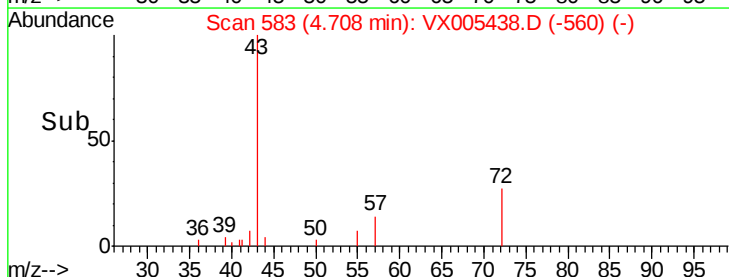
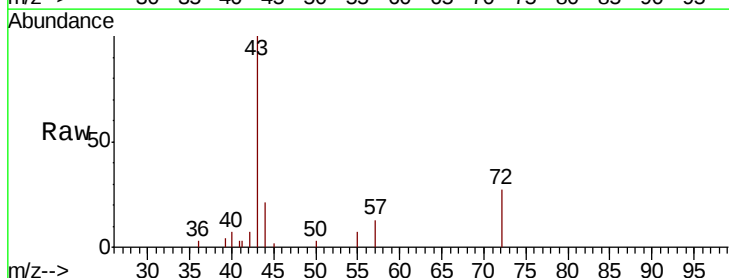
Tgt Ion: 43 Resp: 7478

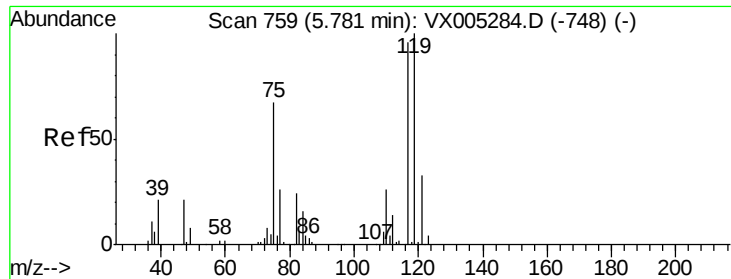
Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

70 0.0 9.0 13.6#





#38

Carbon Tetrachloride

Concen: 6.124 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

OR-01-101618-A

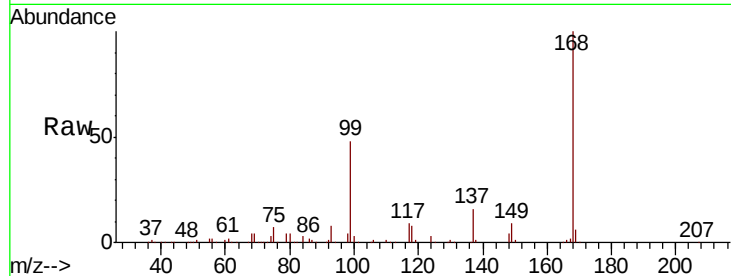
Tot Ion:117 Resp: 25039

Ion Ratio Lower Upper

117 100

119 5.8 78.8 118.2#

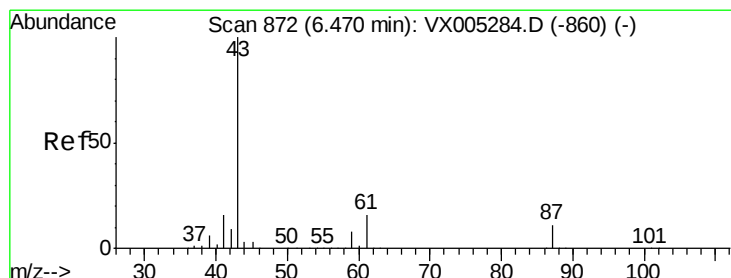
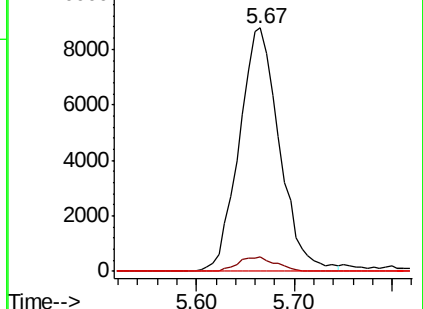
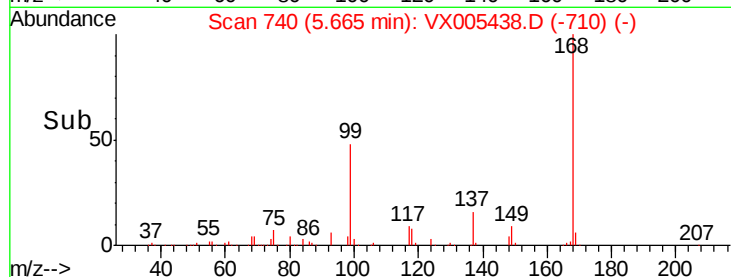
121 0.0 24.9 37.3#



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: 24.554 ug/l

RT: 6.47 min Scan# 872

Delta R.T. 0.00 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

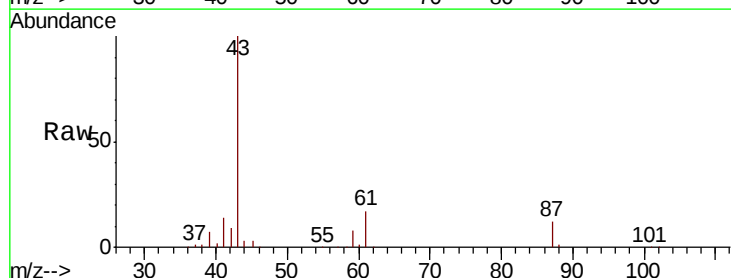
Tgt Ion: 43 Resp: 171163

Ion Ratio Lower Upper

43 100

61 19.2 17.0 25.4

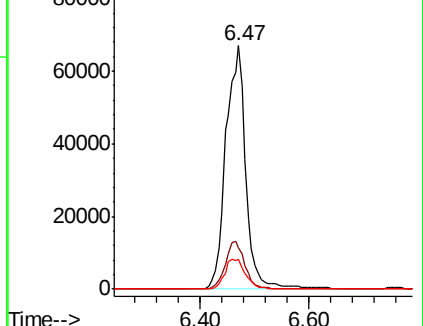
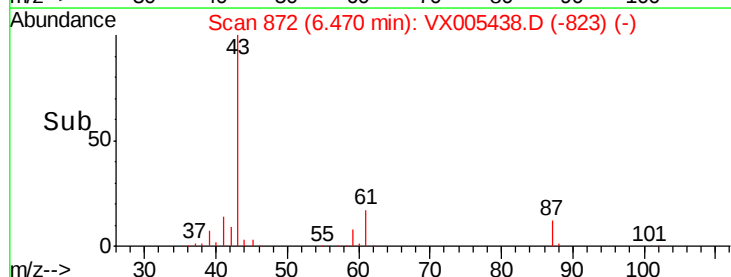
87 12.7 11.4 17.2

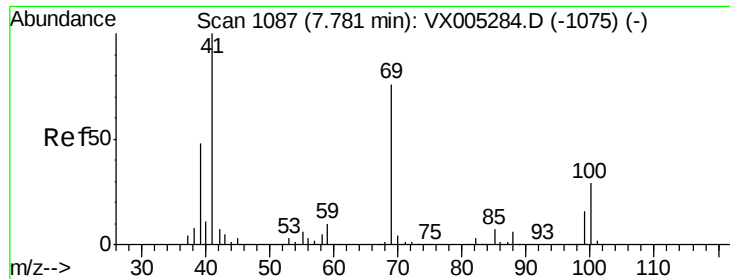


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

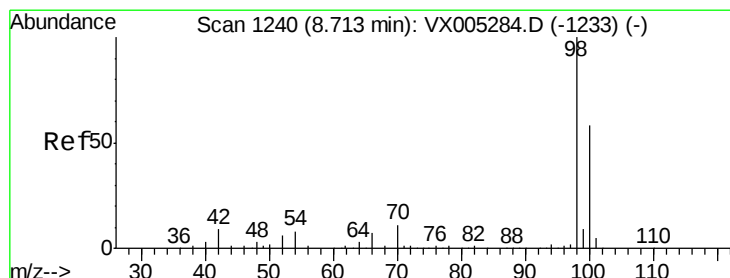
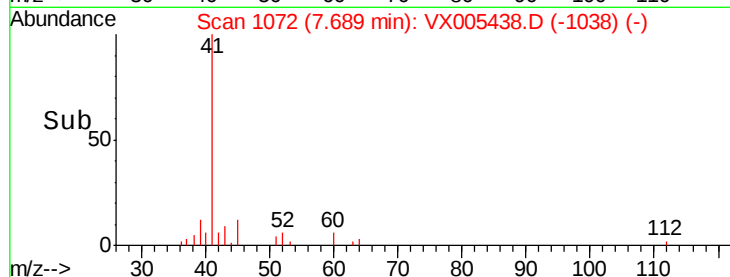
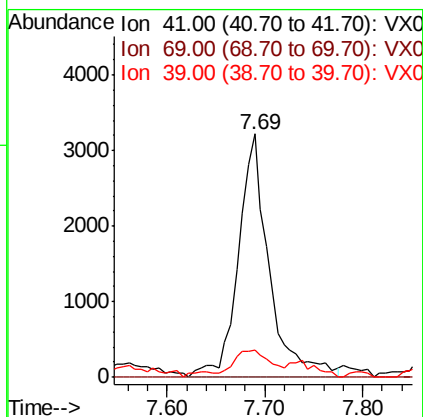
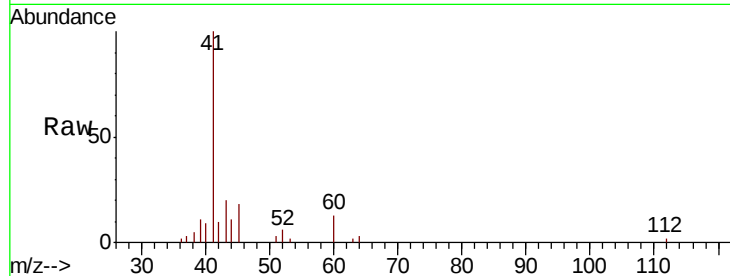




#48
Methvl methacrylate
Concen: 1.961 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX005438.D
Acq: 18 Oct 2018 18:50

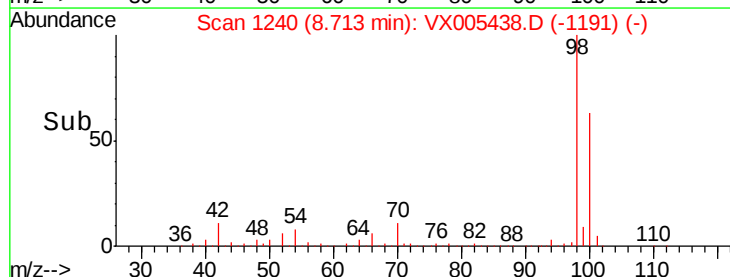
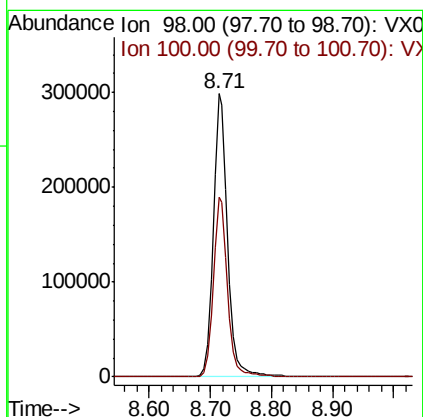
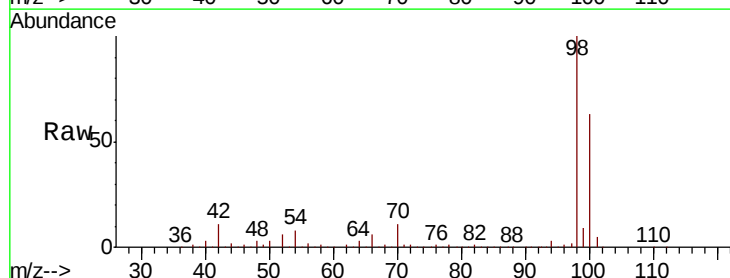
Instrument :
MSVOA_X
ClientSampleId :
OR-01-101618-A

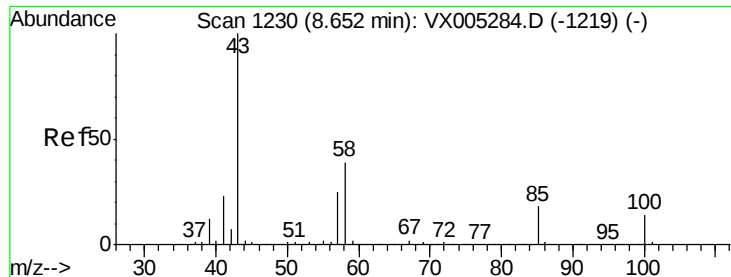
Tot Ion: 41 Resp: 7090
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 13.6 42.7 64.1#



#50
Toluene-d8
Concen: 52.185 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX005438.D
Acq: 18 Oct 2018 18:50

Tgt Ion: 98 Resp: 498543
Ion Ratio Lower Upper
98 100
100 63.6 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 0.598 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

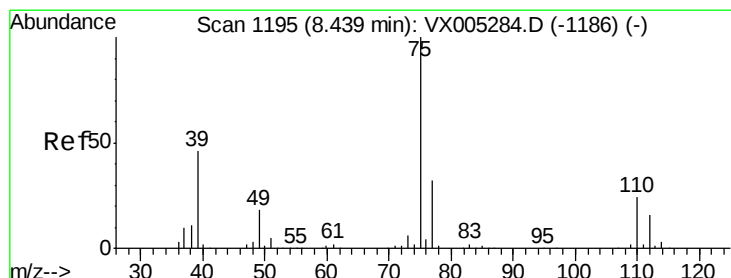
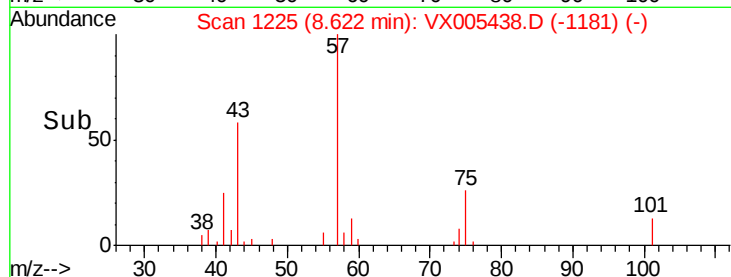
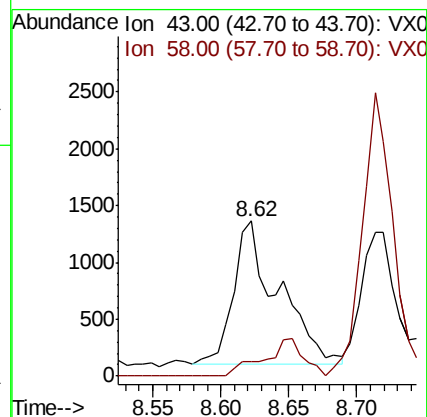
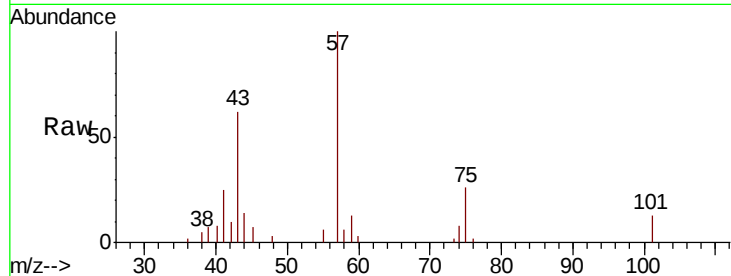
OR-01-101618-A

Tot Ion: 43 Resp: 2887

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



#54

cis-1,3-Dichloropropene

Concen: 0.225 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

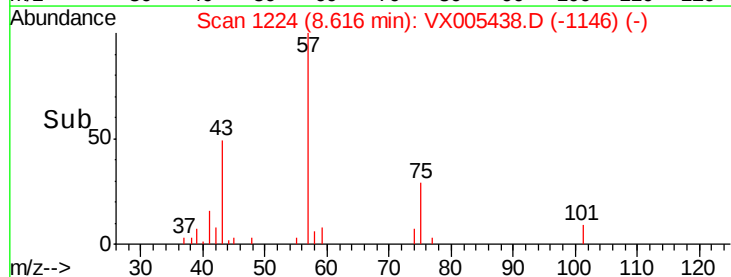
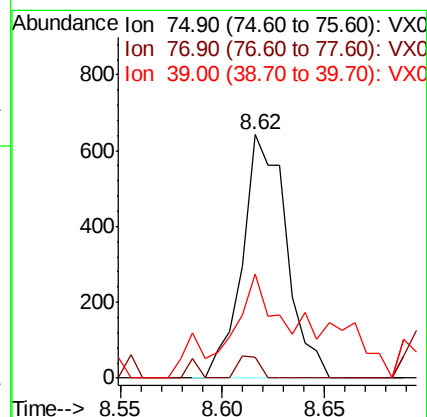
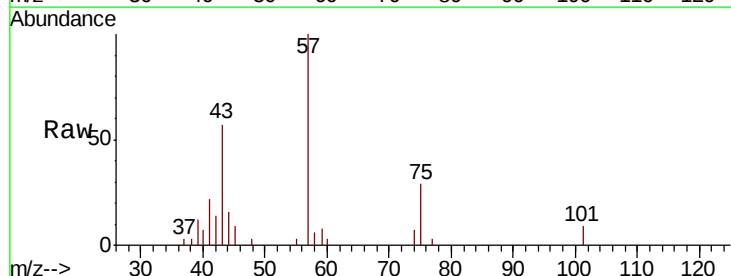
Tgt Ion: 75 Resp: 965

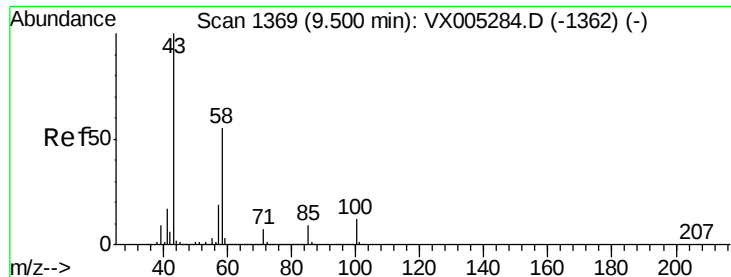
Ion Ratio Lower Upper

75 100

77 8.7 26.2 39.2#

39 24.0 36.4 54.6#

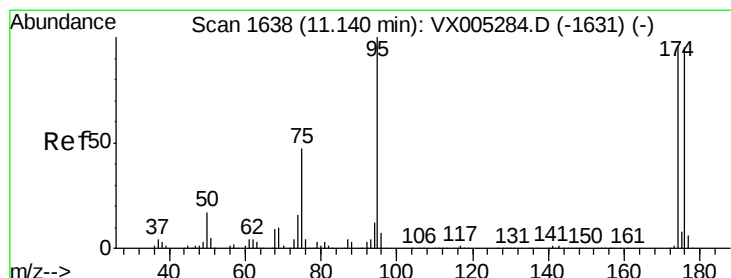
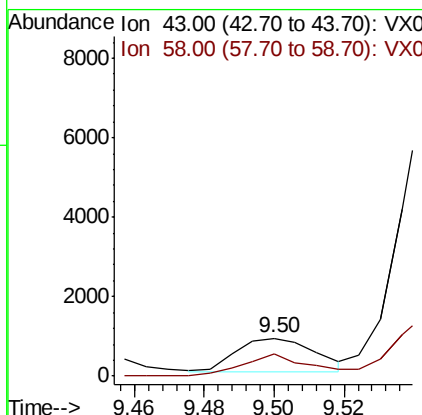
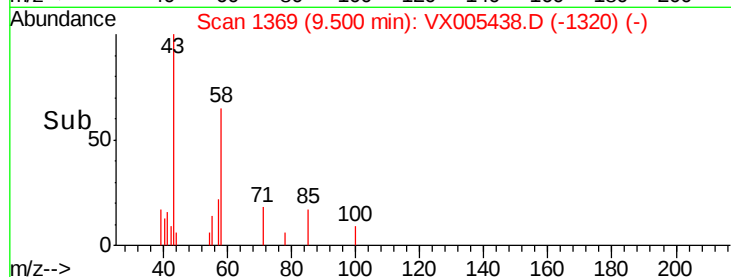
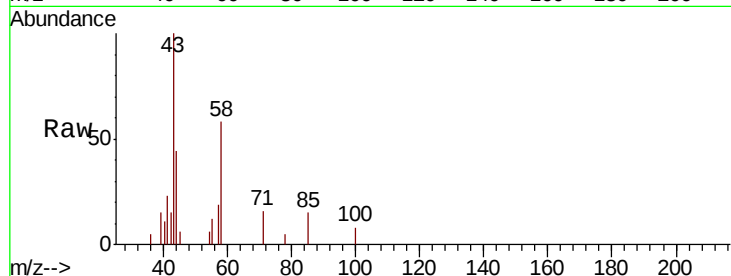




#59
2-Hexanone
Concen: 0.337 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VX005438.D
Acq: 18 Oct 2018 18:50

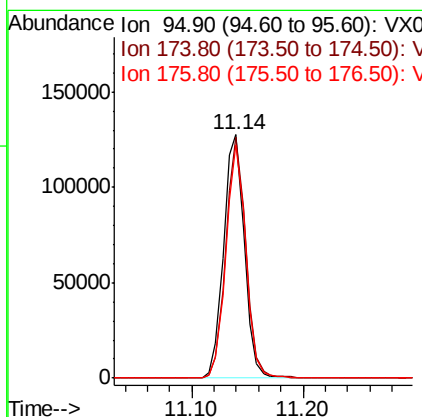
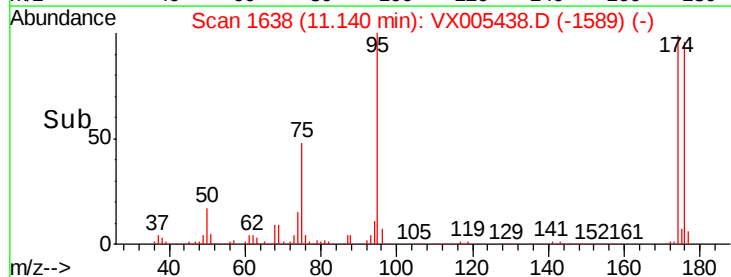
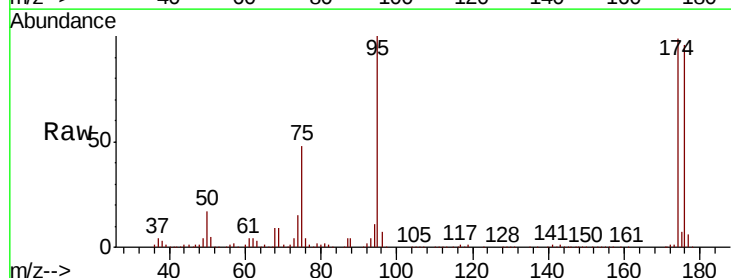
Instrument :
MSVOA_X
ClientSampleId :
OR-01-101618-A

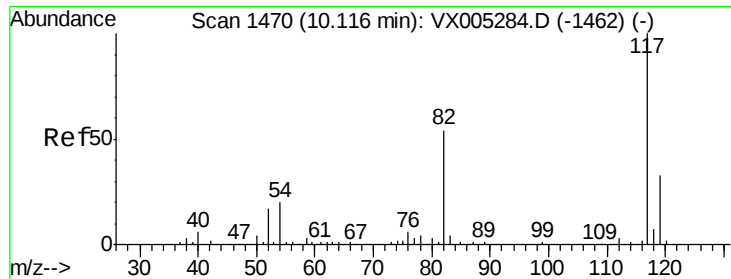
Tot Ion: 43 Resp: 1309
Ion Ratio Lower Upper
43 100
58 55.6 29.0 87.0



#62
4-Bromofluorobenzene
Concen: 45.846 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005438.D
Acq: 18 Oct 2018 18:50

Tgt Ion: 95 Resp: 164537
Ion Ratio Lower Upper
95 100
174 95.9 0.0 185.2
176 92.0 0.0 178.6

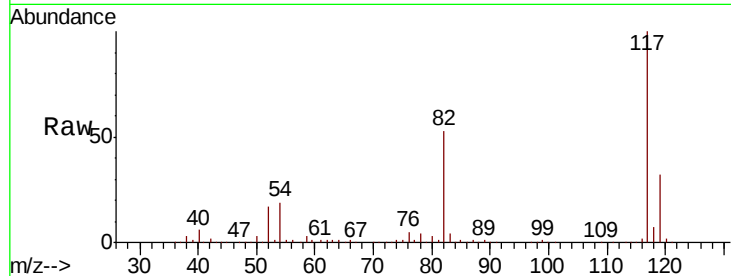




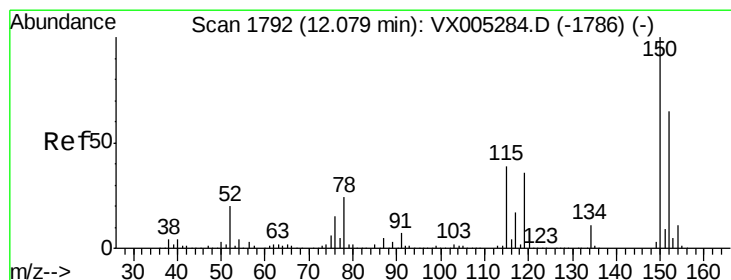
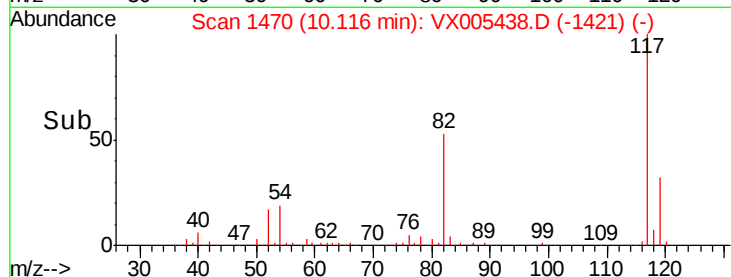
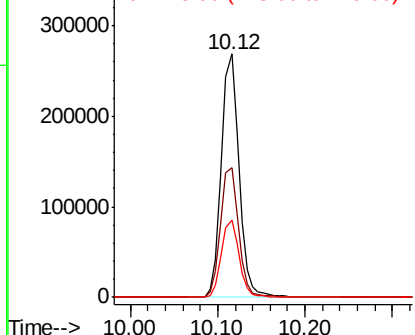
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005438.D
Acq: 18 Oct 2018 18:50

Instrument :
MSVOA_X
ClientSampleId :
OR-01-101618-A

Tot Ion:117 Resp: 376147
Ion Ratio Lower Upper
117 100
82 53.2 47.8 71.6
119 31.9 29.3 43.9

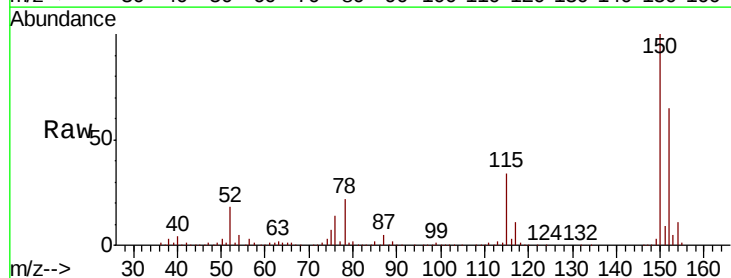


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

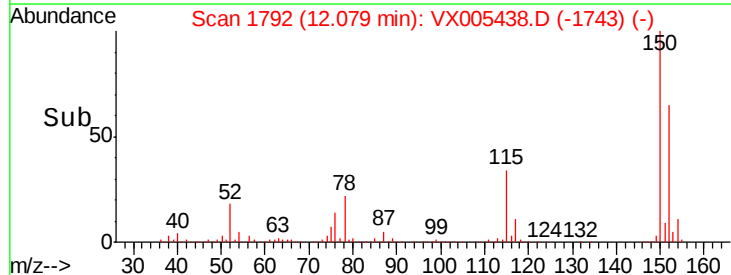
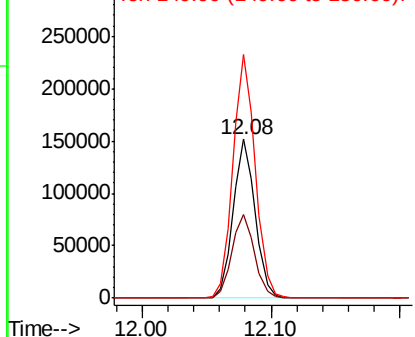


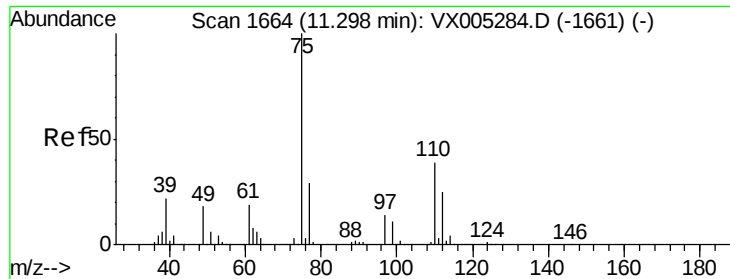
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005438.D
Acq: 18 Oct 2018 18:50

Tgt Ion:152 Resp: 180970
Ion Ratio Lower Upper
152 100
115 54.0 39.0 117.0
150 155.5 0.0 351.0



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

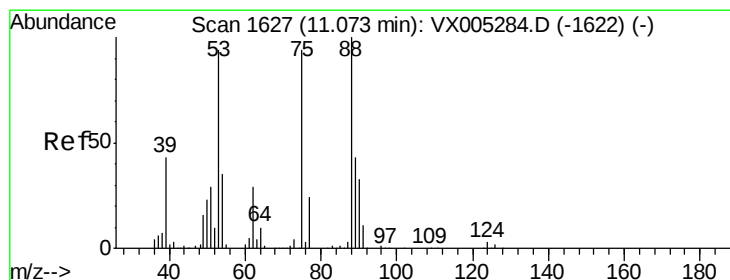
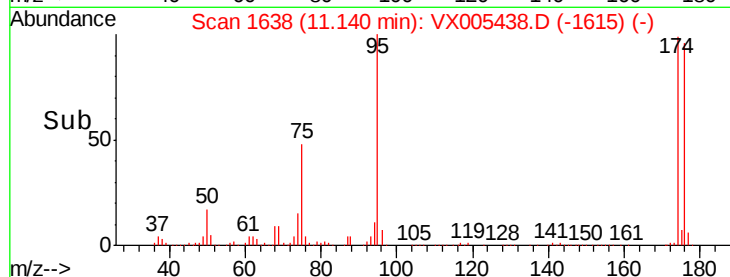
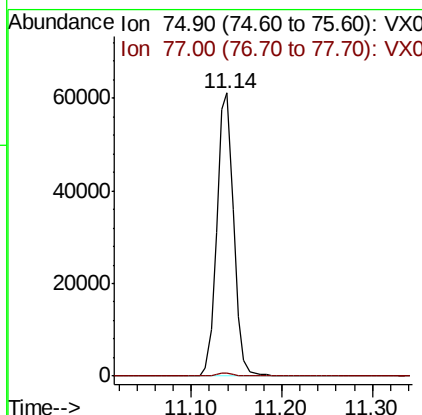
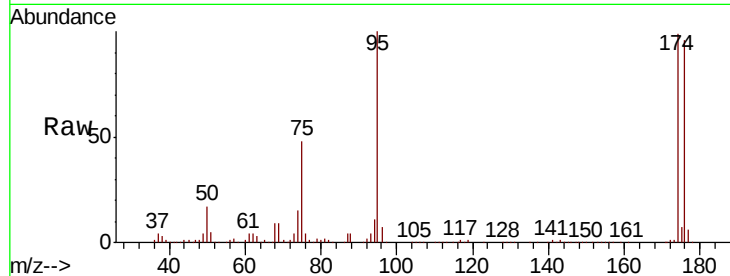




#76
 1,2,3-Trichloropropane
 Concen: 22.682 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005438.D
 Acq: 18 Oct 2018 18:50

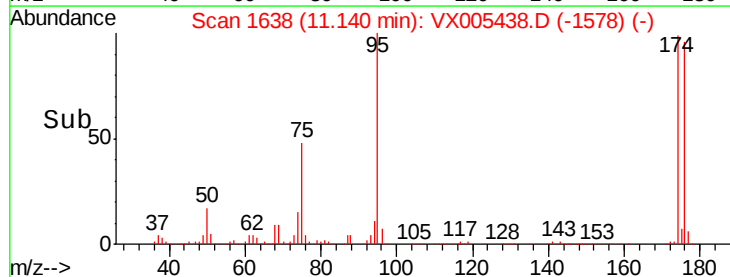
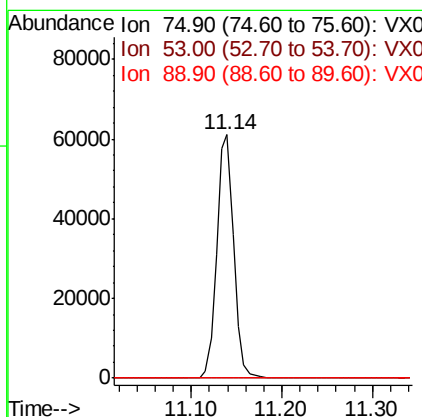
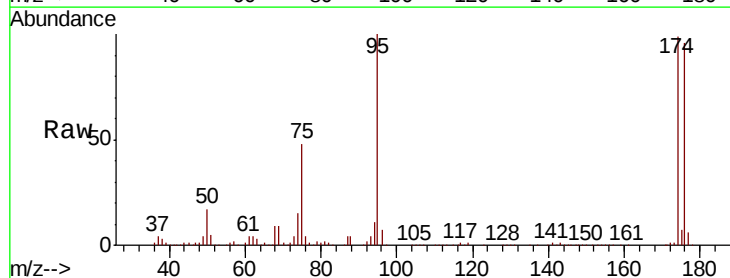
Instrument :
 MSVOA_X
 ClientSampleId :
 OR-01-101618-A

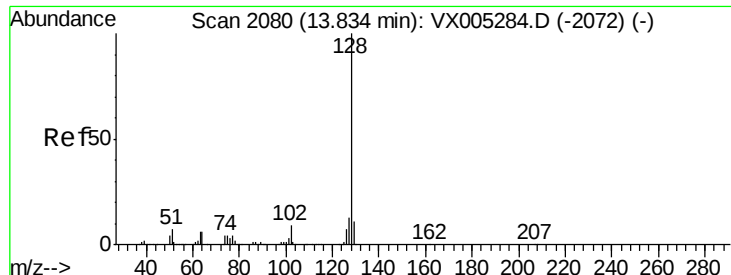
Tot Ion: 75 Resp: 79620
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.2 60.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.918 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005438.D
 Acq: 18 Oct 2018 18:50

Tgt Ion: 75 Resp: 79620
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.1 120.1#
 89 0.0 37.2 55.8#





#95

Naphthalene

Concen: 1.265 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005438.D

Acq: 18 Oct 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

OR-01-101618-A

Tot Ion:128 Resp: 15793

Ion Ratio Lower Upper

128 100

127 13.7 10.2 15.2

129 12.1 8.6 12.8

