

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091718\
 Data File : VX004635.D
 Acq On : 17 Sep 2018 22:39
 Operator : JC/MD
 Sample : PB112894ZHE#10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 18 00:57:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	216960	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	318530	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	309529	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	188738	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	152235	54.42	ug/l	0.00
Spiked Amount			Recovery	=	108.84%	
35) Dibromofluoromethane	5.51	113	146656	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
50) Toluene-d8	8.71	98	444752	45.50	ug/l	0.00
Spiked Amount			Recovery	=	91.00%	
62) 4-Bromofluorobenzene	11.14	95	155933	44.69	ug/l	0.00
Spiked Amount			Recovery	=	89.38%	

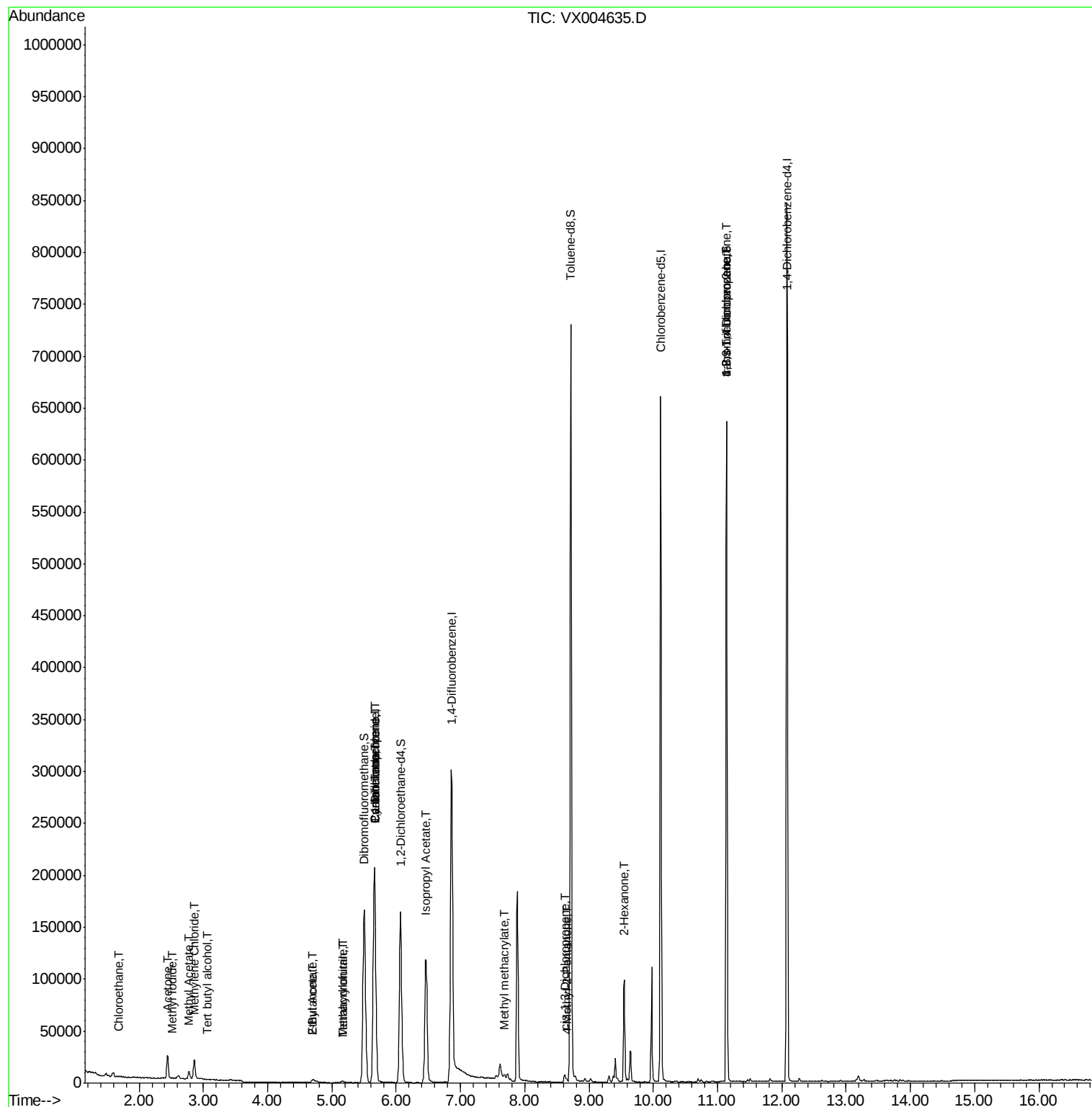
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	582	Below Cal		91
6) Chloroethane	1.68	64	410	0.22	ug/l	93
10) Methyl Iodide	2.51	142	115	4.29	ug/l #	41
11) Tert butyl alcohol	3.06	59	409	0.61	ug/l #	87
16) Acetone	2.44	43	24358	17.84	ug/l	92
18) Methyl Acetate	2.78	43	10475	2.73	ug/l	98
20) Methylene Chloride	2.86	84	8830	3.15	ug/l #	88
25) 2-Butanone	4.70	43	6071	2.79	ug/l	97
29) Tetrahydrofuran	5.17	42	1515	1.16	ug/l #	88
31) Cyclohexane	5.67	56	3551	0.88	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13694	3.54	ug/l #	49
37) Ethyl Acetate	4.70	43	6071	1.38	ug/l #	67
38) Carbon Tetrachloride	5.66	117	19110	5.06	ug/l #	16
41) Methacrylonitrile	5.16	41	951	0.39	ug/l #	47
43) Isopropyl Acetate	6.46	43	159809	27.36	ug/l	99
48) Methyl methacrylate	7.69	41	5918	2.05	ug/l #	20
51) 4-Methyl-2-Pentanone	8.65	43	1334	0.32	ug/l #	62
54) cis-1,3-Dichloropropene	8.62	75	1099	0.28	ug/l #	57
59) 2-Hexanone	9.55	43	10501	3.32	ug/l #	56
76) 1,2,3-Trichloropropane	11.14	75	72800	19.17	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	72800	61.11	ug/l #	10

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

Instrument :

MSVOA_X

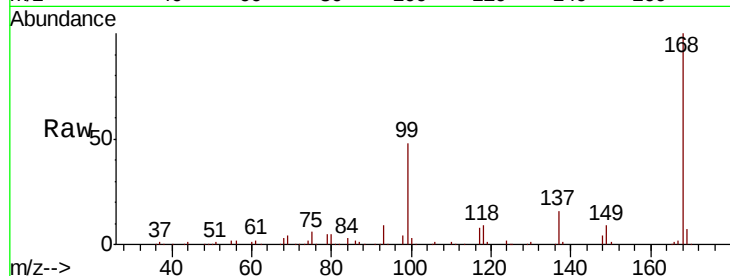
ClientSampleId :

Tot Ion:168 Resp: 216960

Ion Ratio Lower Upper

168 100

99 48.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

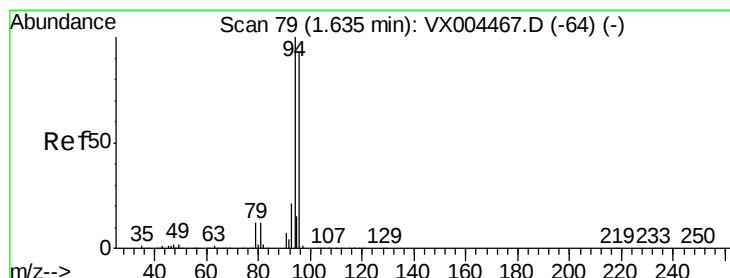
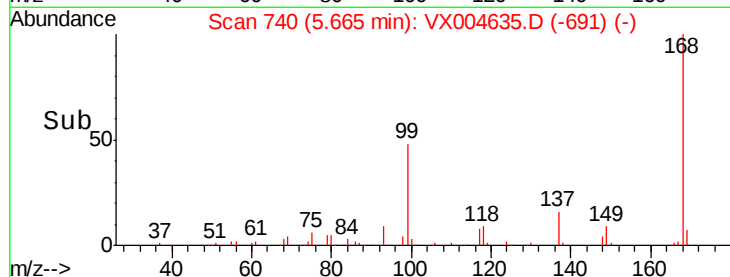
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004635.D

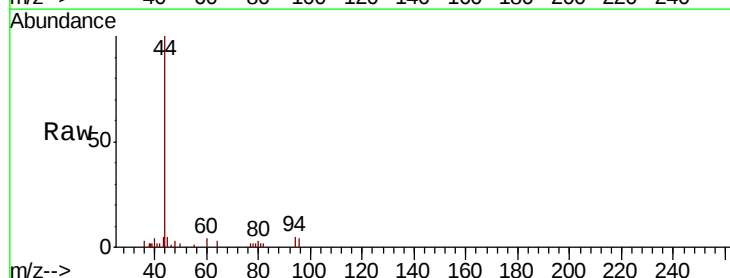
Acq: 17 Sep 2018 22:39

Tgt Ion: 94 Resp: 582

Ion Ratio Lower Upper

94 100

96 84.8 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

150

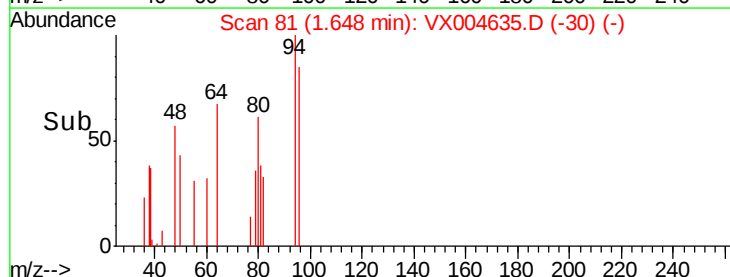
100

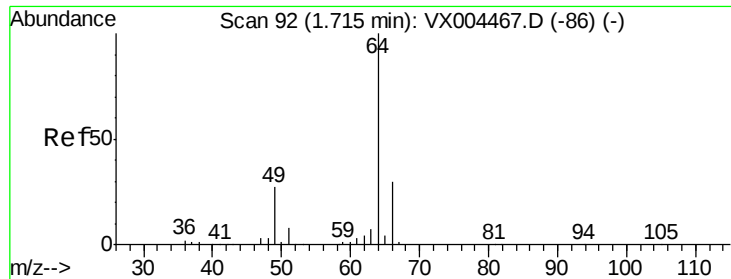
50

0

Time-->

1.60 1.65 1.70 1.75





#6

Chloroethane

Concen: 0.22 ug/l

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

Instrument :

MSVOA_X

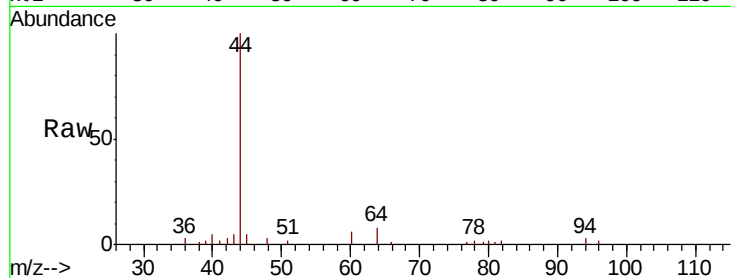
ClientSampled :

Tot Ion: 64 Resp: 410

Ion Ratio Lower Upper

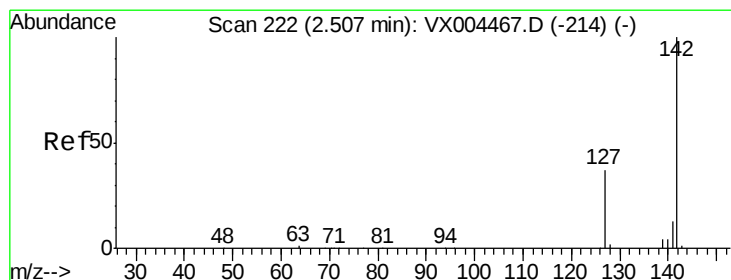
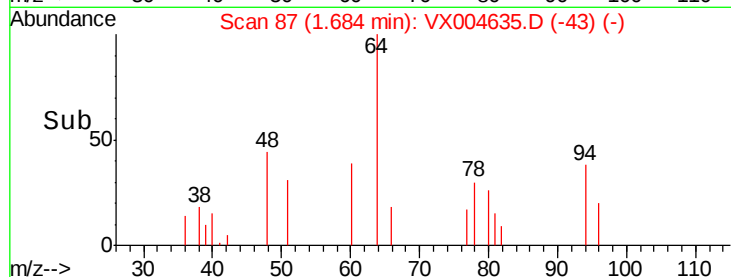
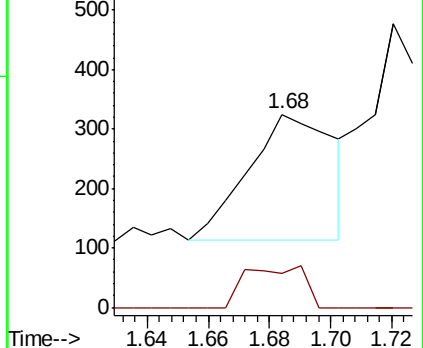
64 100

66 26.9 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: 4.29 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

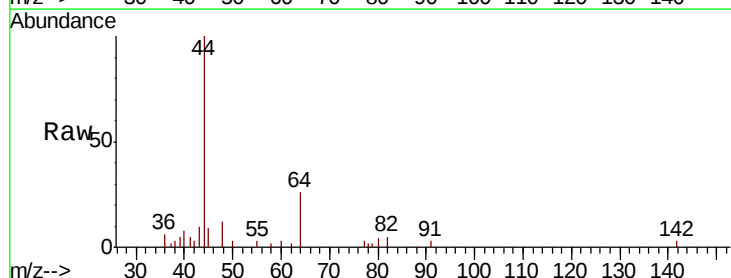
Tgt Ion: 142 Resp: 115

Ion Ratio Lower Upper

142 100

127 0.0 33.8 50.6#

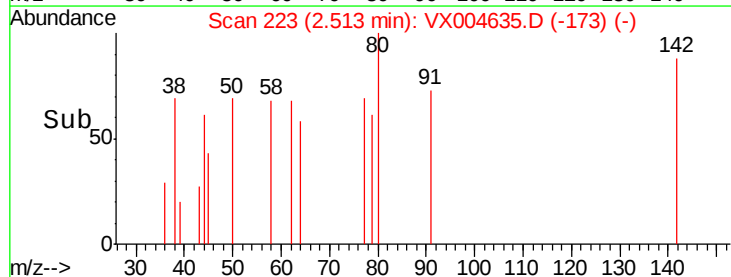
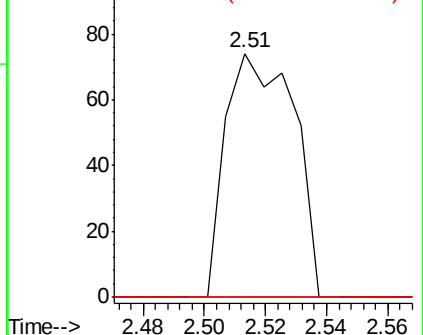
141 0.0 11.4 17.0#

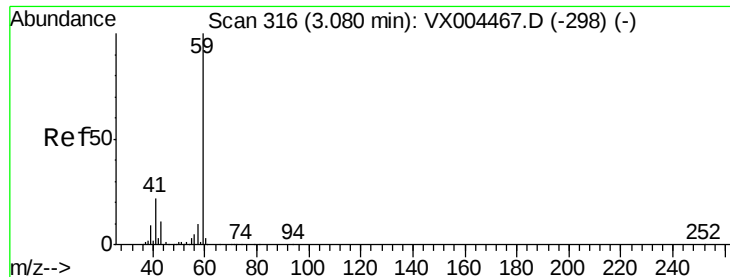


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



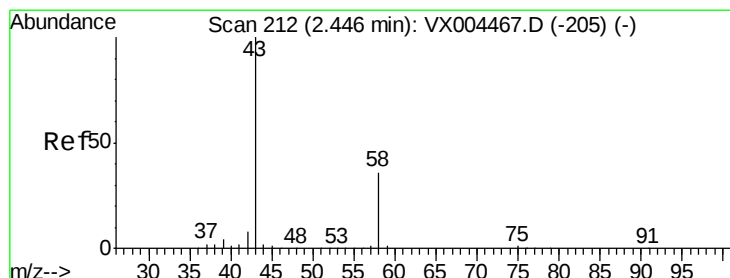
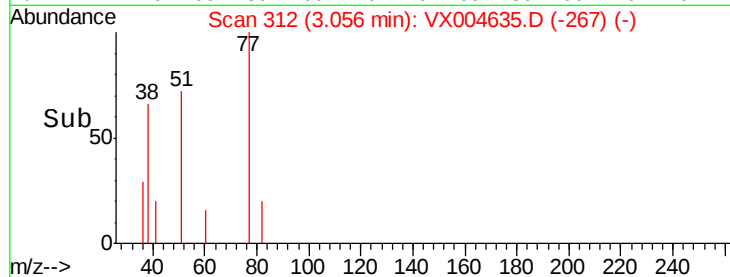
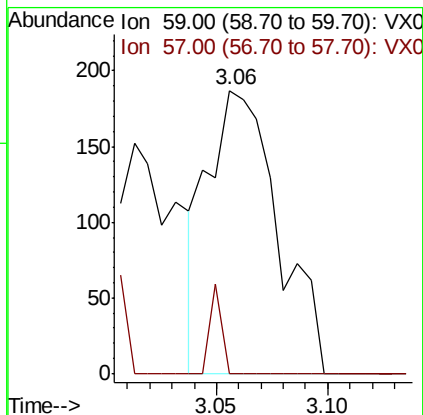
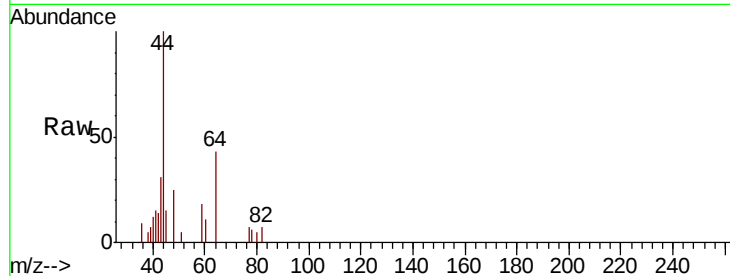


#11

Tert butyl alcohol
 Concen: 0.61 ug/l
 RT: 3.06 min Scan# 312
 Delta R.T. -0.02 min
 Lab File: VX004635.D
 Acq: 17 Sep 2018 22:39

Instrument :
 MSVOA_X
 ClientSampleId :

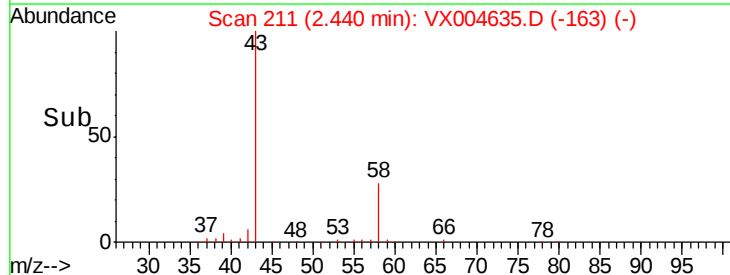
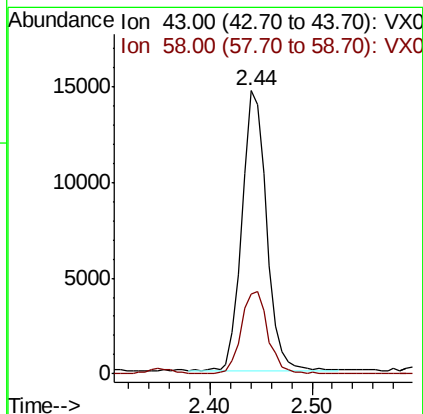
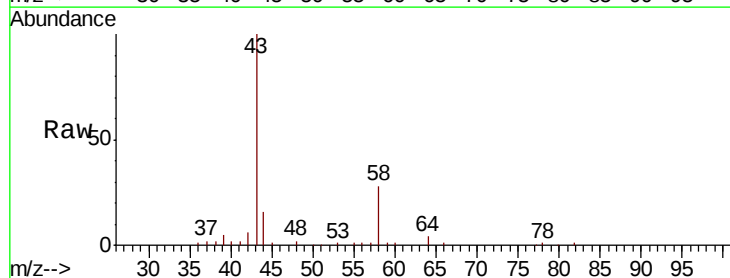
Tot Ion: 59 Resp: 409
 Ion Ratio Lower Upper
 59 100
 57 5.4 8.2 12.4#

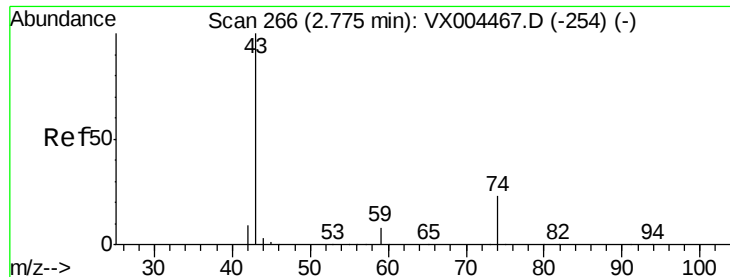


#16

Acetone
 Concen: 17.84 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. -0.01 min
 Lab File: VX004635.D
 Acq: 17 Sep 2018 22:39

Tgt Ion: 43 Resp: 24358
 Ion Ratio Lower Upper
 43 100
 58 28.5 26.2 39.4





#18

Methvl Acetate

Concen: 2.73 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

Instrument :

MSVOA_X

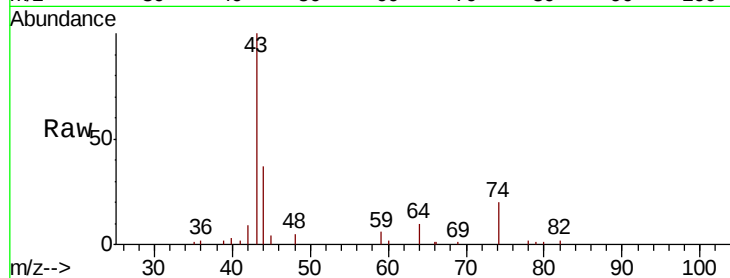
ClientSampleId :

Tot Ion: 43 Resp: 10475

Ion Ratio Lower Upper

43 100

74 23.2 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

6000

5000

4000

3000

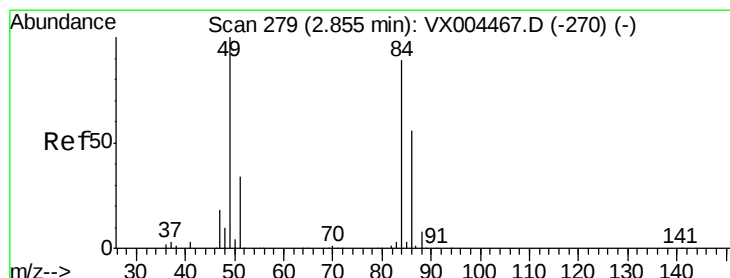
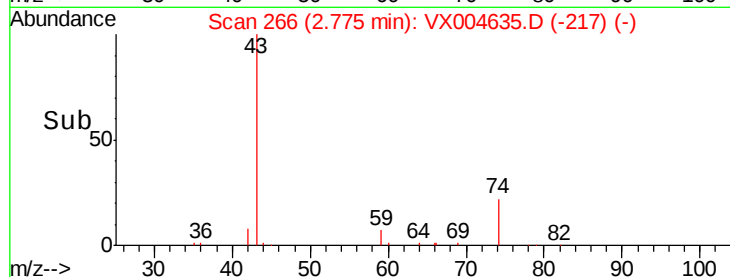
2000

1000

0

Time-->

2.70 2.75 2.80 2.85



#20

Methylene Chloride

Concen: 3.15 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

Tgt Ion: 84 Resp: 8830

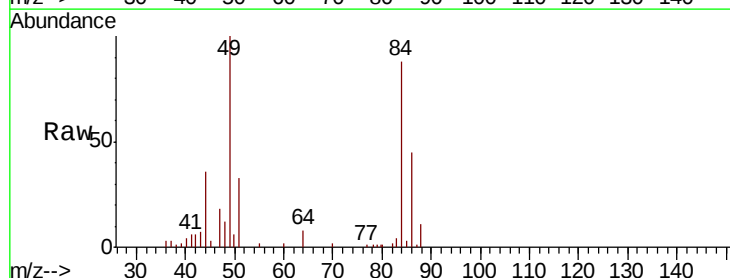
Ion Ratio Lower Upper

84 100

49 113.1 101.2 151.8

51 36.9 29.5 44.3

86 51.2 52.3 78.5#



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

8000

6000

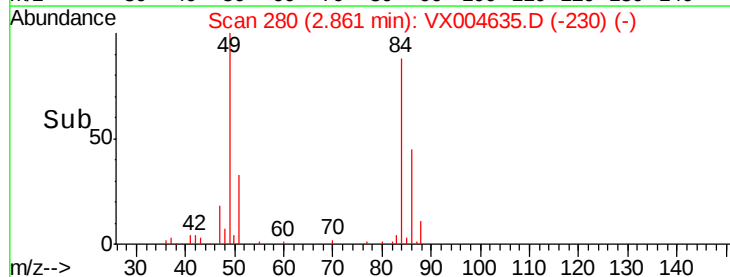
4000

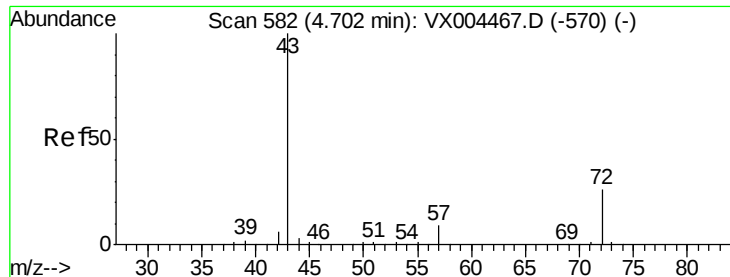
2000

0

Time-->

2.80 2.85 2.90 2.95





#25

2-Butanone

Concen: 2.79 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

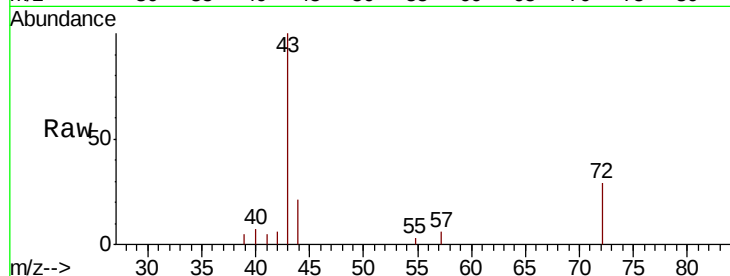
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 6071

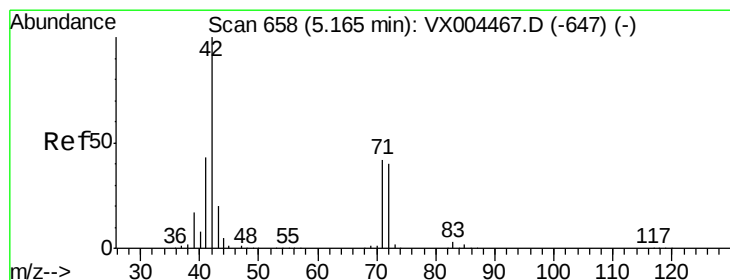
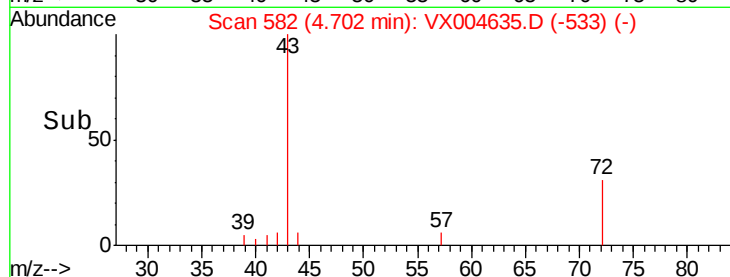
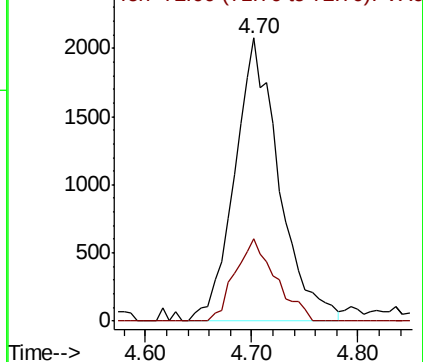
Ion Ratio Lower Upper

43 100

72 29.0 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 1.16 ug/l

RT: 5.17 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

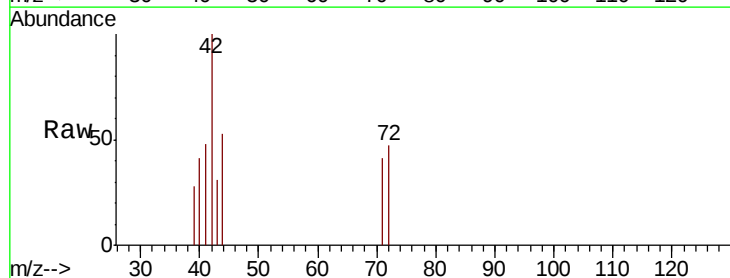
Tgt Ion: 42 Resp: 1515

Ion Ratio Lower Upper

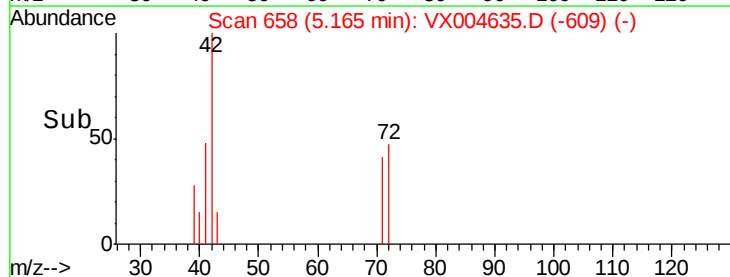
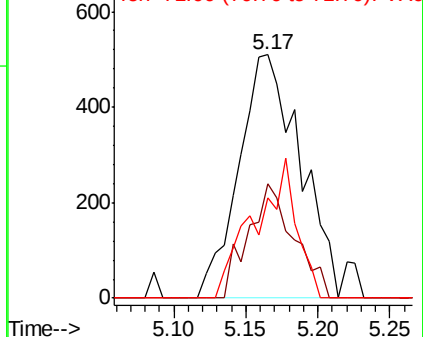
42 100

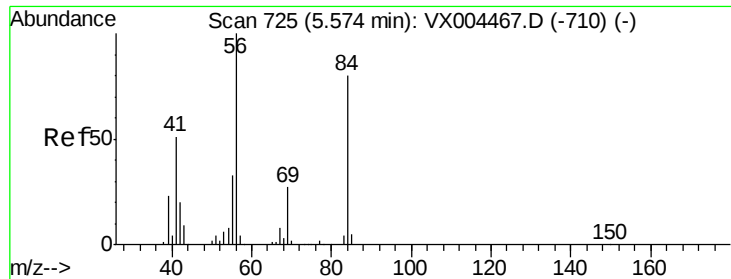
72 35.0 37.4 56.0#

71 39.6 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

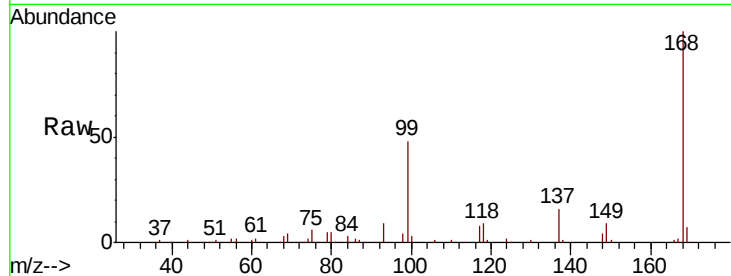




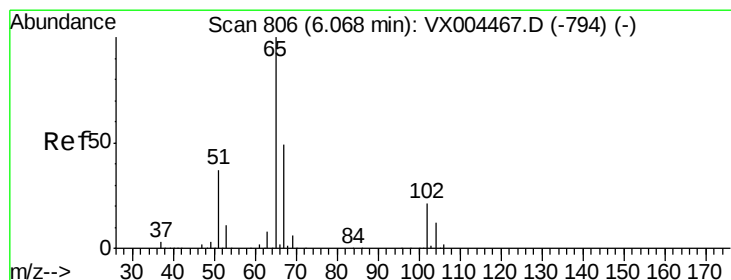
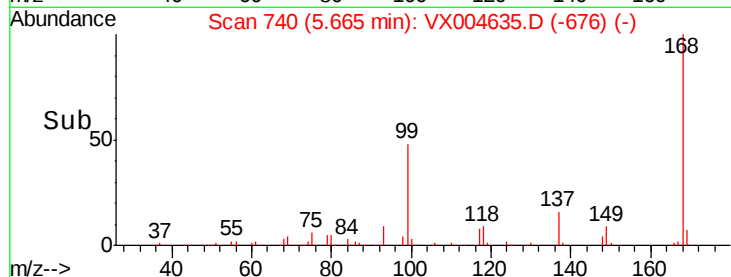
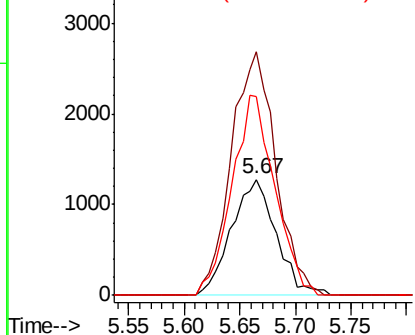
#31
Cyclohexane
Concen: 0.88 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX004635.D
Acq: 17 Sep 2018 22:39

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 3551
Ion Ratio Lower Upper
56 100
69 210.2 25.4 38.2#
84 171.6 71.4 107.2#

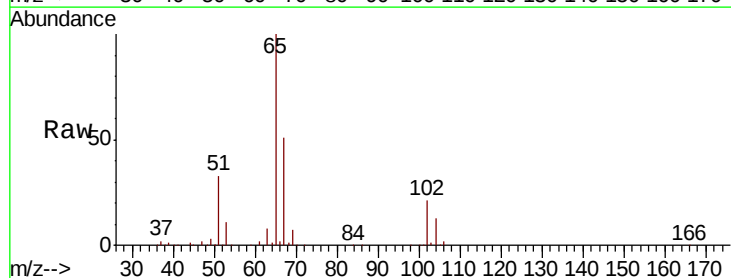


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

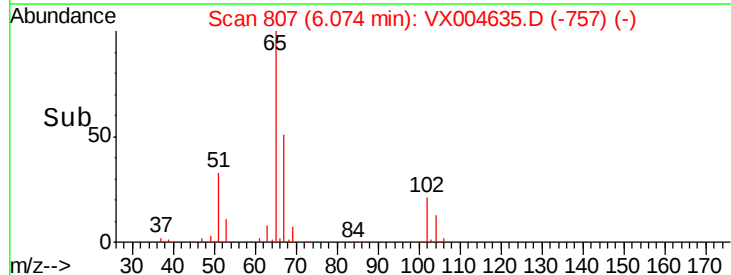
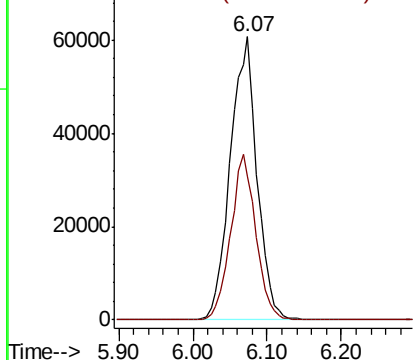


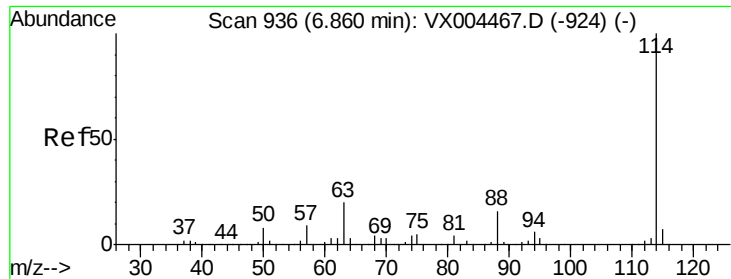
#33
1,2-Dichloroethane-d4
Concen: 54.42 ug/l
RT: 6.07 min Scan# 807
Delta R.T. 0.01 min
Lab File: VX004635.D
Acq: 17 Sep 2018 22:39

Tgt Ion: 65 Resp: 152235
Ion Ratio Lower Upper
65 100
67 55.1 0.0 106.8



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

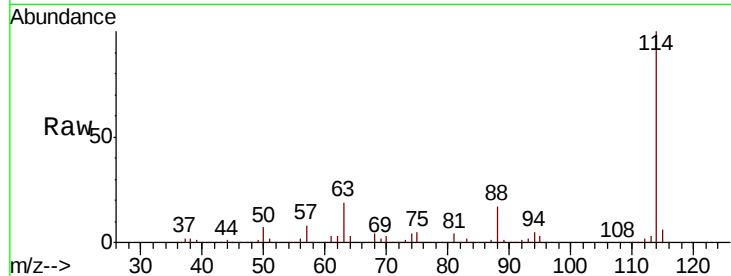




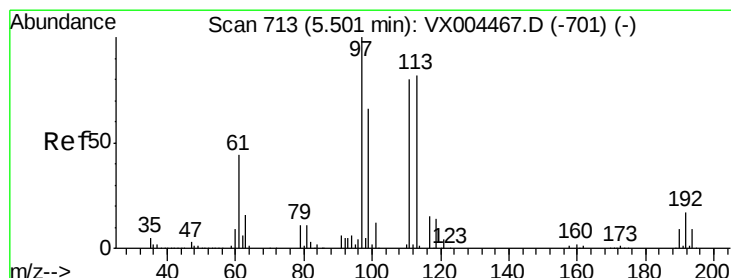
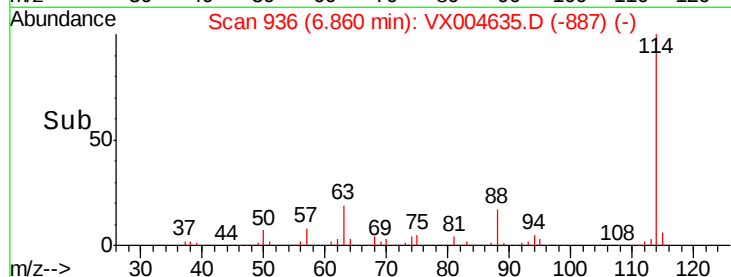
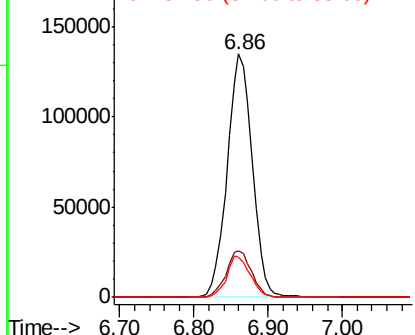
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004635.D
 Acq: 17 Sep 2018 22:39

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 318530
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.0
 88 16.6 0.0 30.4

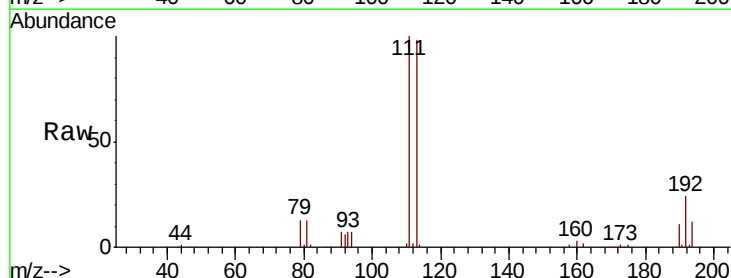


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

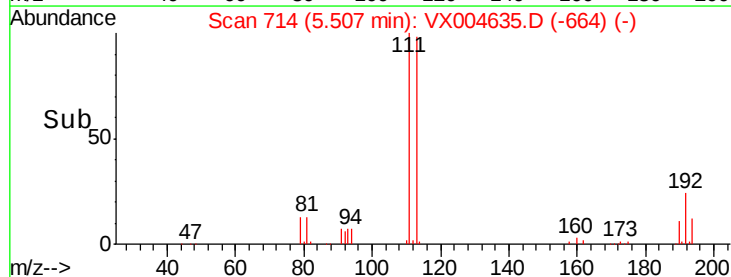
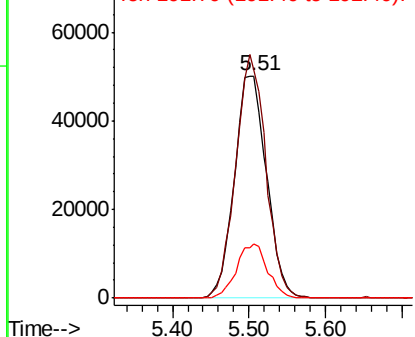


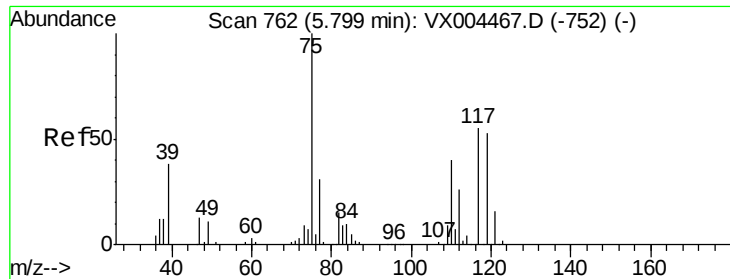
#35
 Dibromofluoromethane
 Concen: 50.31 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004635.D
 Acq: 17 Sep 2018 22:39

Tgt Ion:113 Resp: 146656
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.4 123.6
 192 23.4 19.4 29.2



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: 3.54 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

Instrument :

MSVOA_X

ClientSampleId :

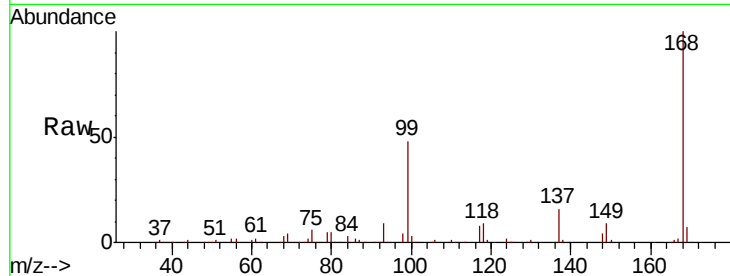
Tot Ion: 75 Resp: 13694

Ion Ratio Lower Upper

75 100

110 8.5 18.0 54.0#

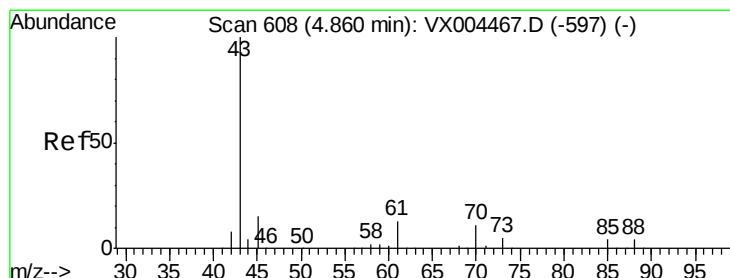
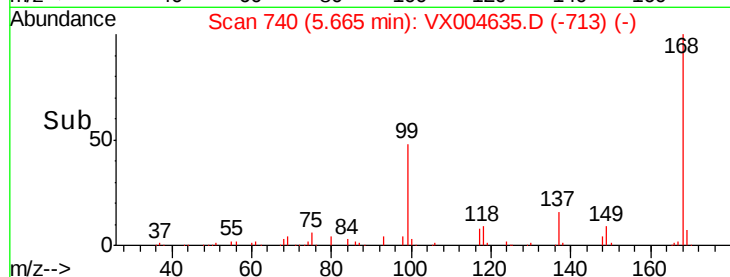
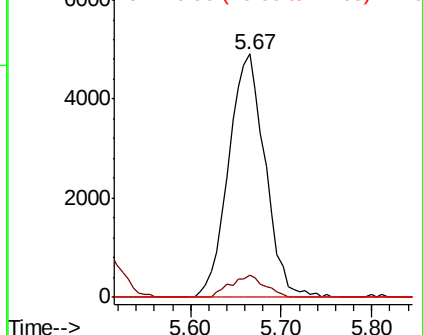
77 0.0 24.6 36.8#



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



#37

Ethyl Acetate

Concen: 1.38 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.16 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

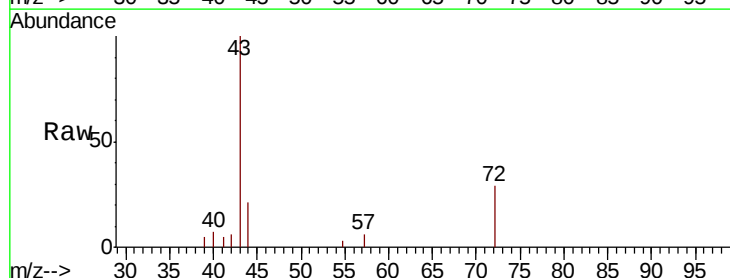
Tgt Ion: 43 Resp: 6071

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

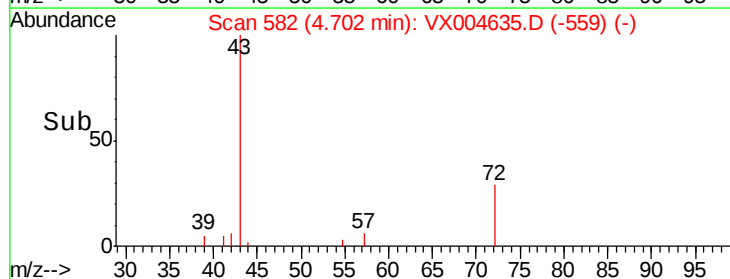
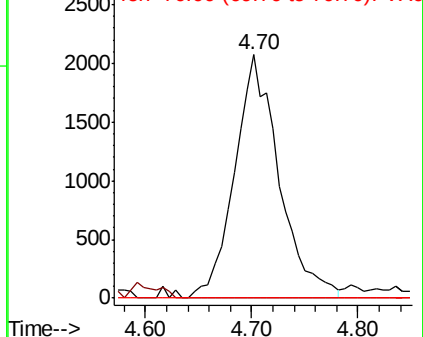
70 0.0 9.0 13.6#

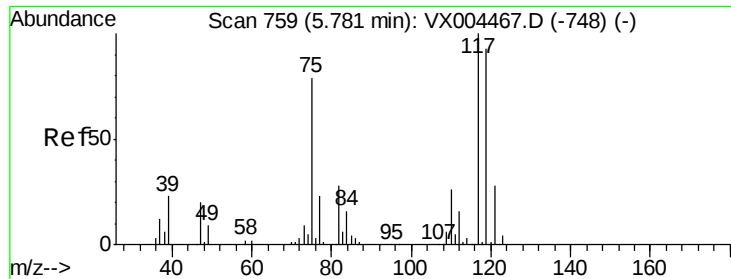


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.06 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

Instrument :

MSVOA_X

ClientSampleId :

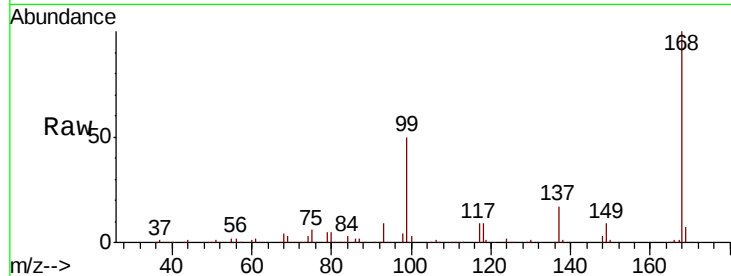
Tot Ion:117 Resp: 19110

Ion Ratio Lower Upper

117 100

119 7.0 78.8 118.2#

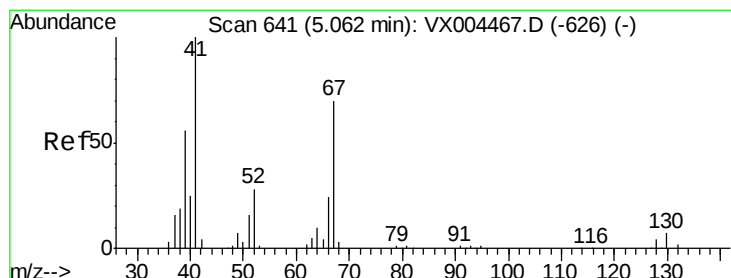
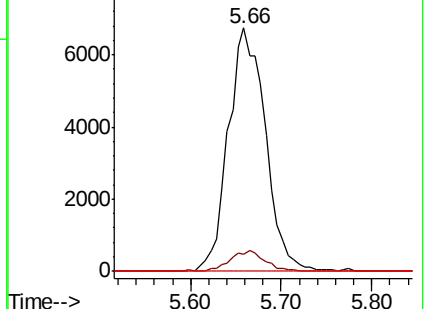
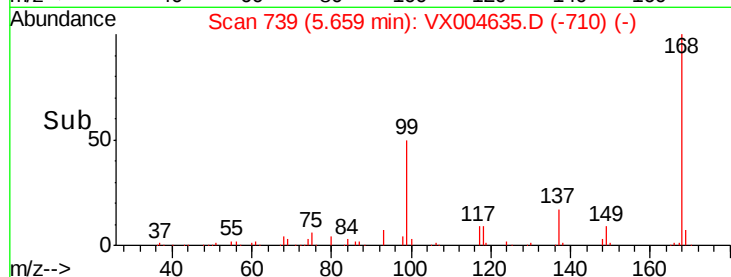
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 0.39 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.10 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

Tgt Ion: 41 Resp: 951

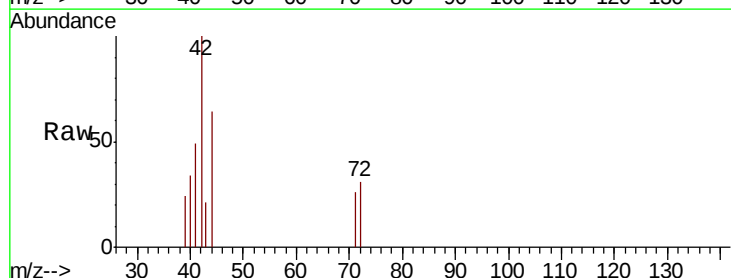
Ion Ratio Lower Upper

41 100

39 49.9 42.4 63.6

67 0.0 59.2 88.8#

52 0.0 23.0 34.4#

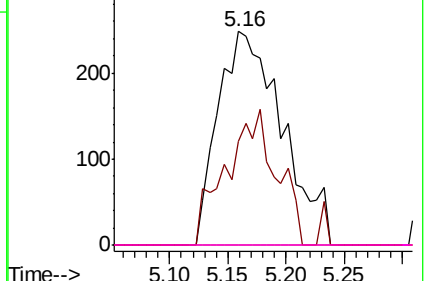
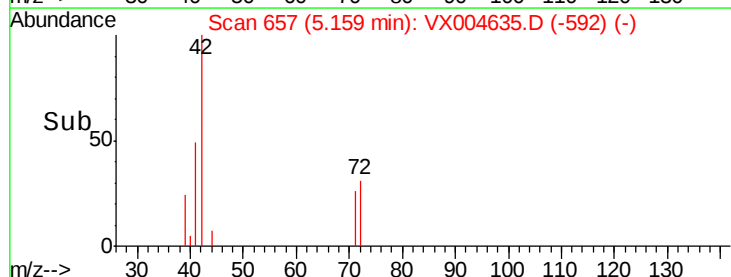


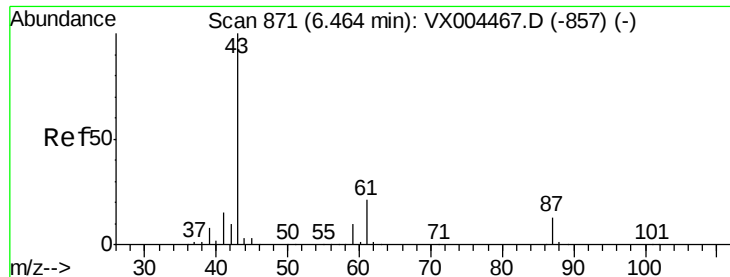
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



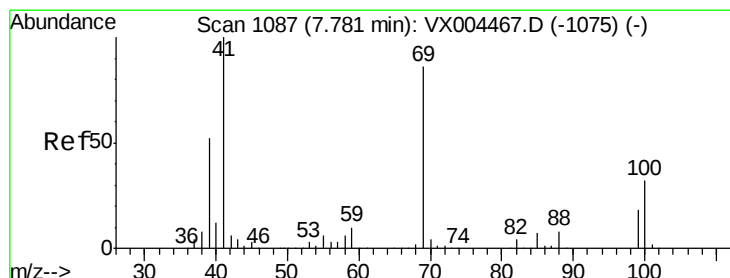
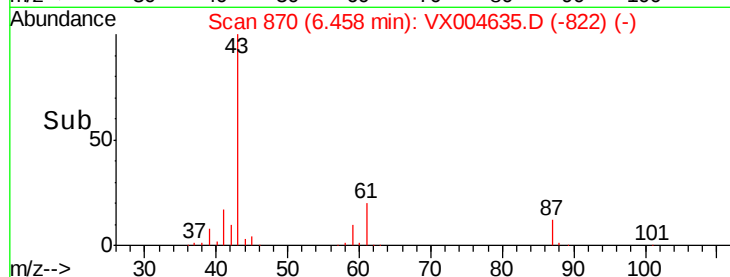
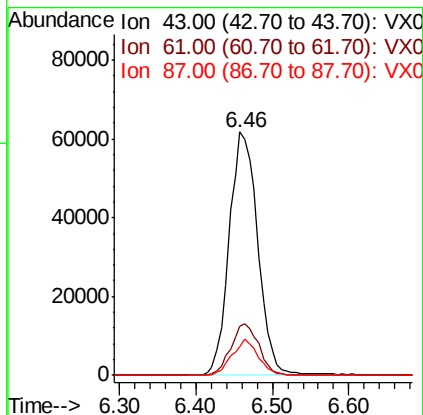
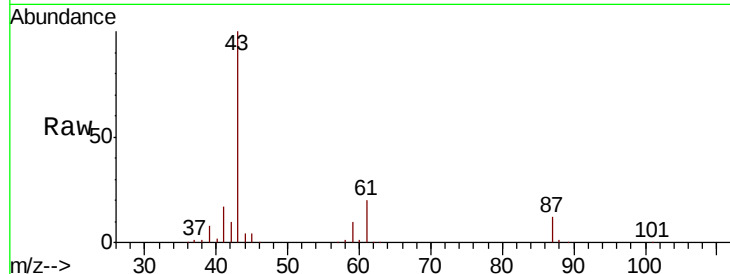


#43

Isopropyl Acetate
 Concen: 27.36 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.01 min
 Lab File: VX004635.D
 Acq: 17 Sep 2018 22:39

Instrument :
 MSVOA_X
 ClientSampleId :

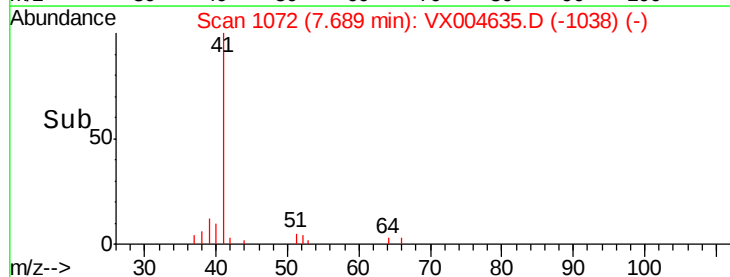
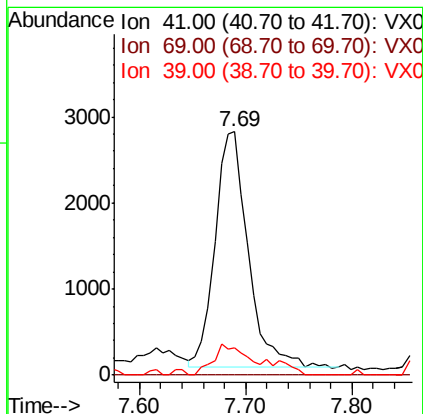
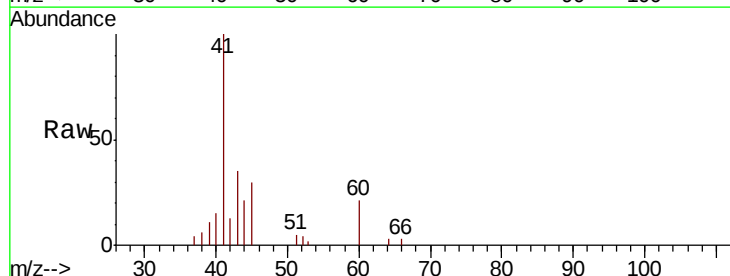
Tot Ion	43	61	87	Resp	159809
Ion Ratio	100	20.9	13.7	Lower	Upper
		17.0	11.4		
		25.4	17.2		

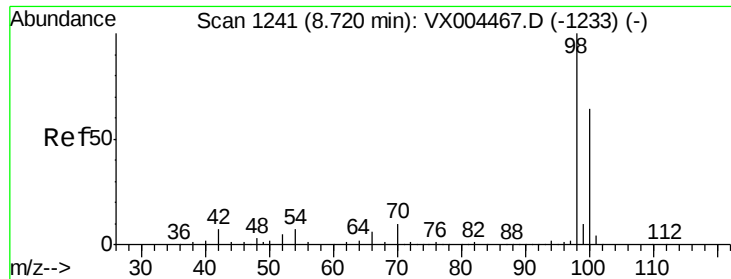


#48

Methyl methacrylate
 Concen: 2.05 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX004635.D
 Acq: 17 Sep 2018 22:39

Tgt Ion	41	69	39	Resp	5918
Ion Ratio	100	0.0	13.1	Lower	Upper
		70.2	42.7		
		105.4#	64.1#		

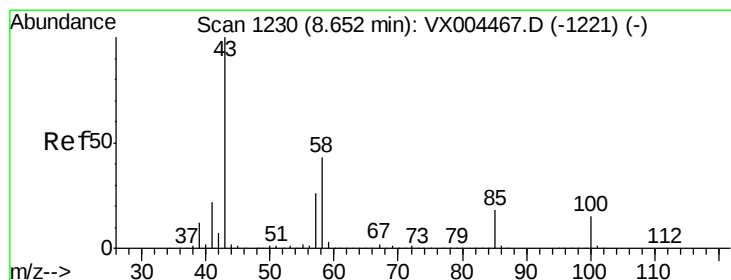
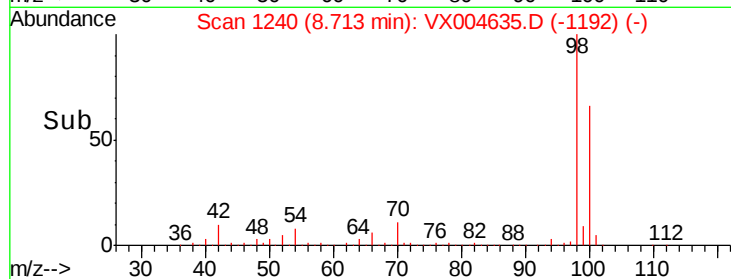
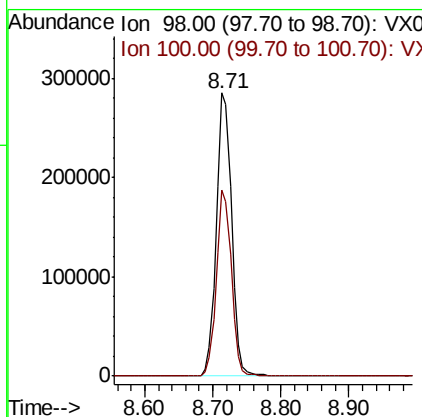
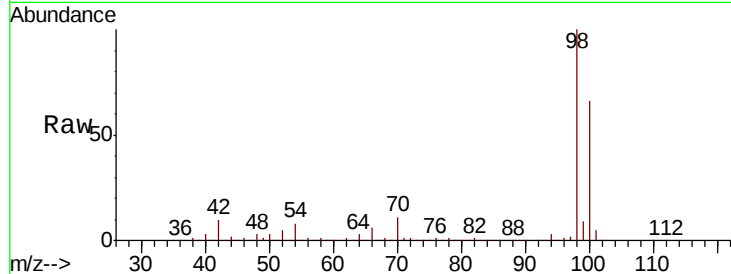




#50
Toluene-d8
Concen: 45.50 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX004635.D
Acq: 17 Sep 2018 22:39

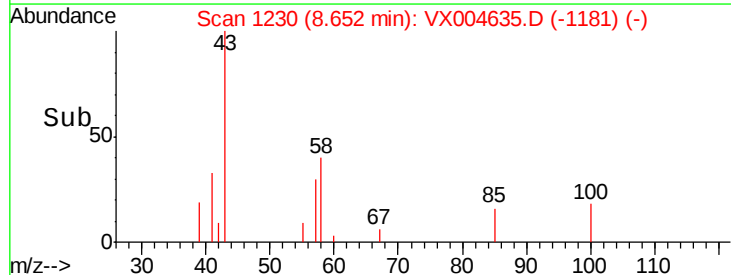
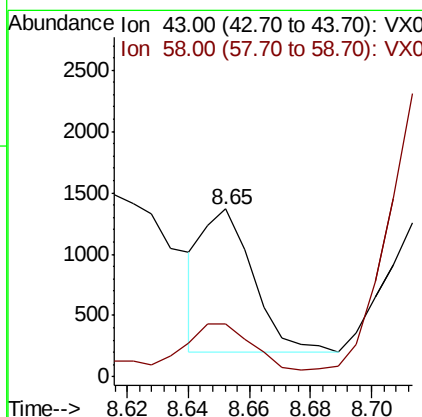
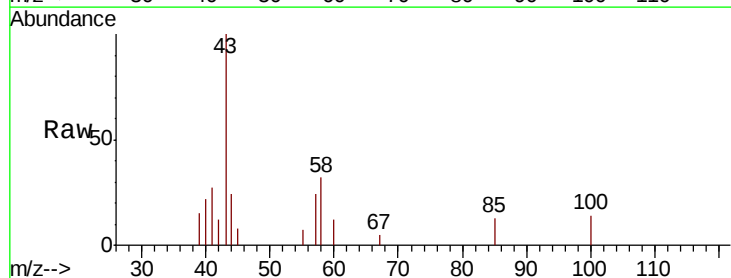
Instrument :
MSVOA_X
ClientSampleId :

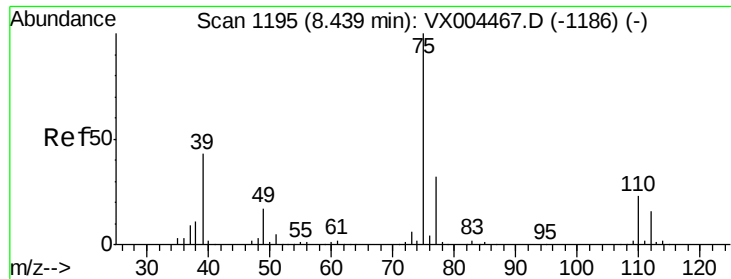
Tot Ion: 98 Resp: 444752
Ion Ratio Lower Upper
98 100
100 64.4 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.32 ug/l
RT: 8.65 min Scan# 1230
Delta R.T. -0.00 min
Lab File: VX004635.D
Acq: 17 Sep 2018 22:39

Tgt Ion: 43 Resp: 1334
Ion Ratio Lower Upper
43 100
58 65.1 33.1 49.7#

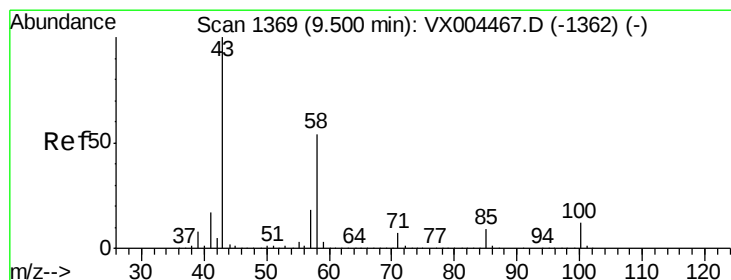
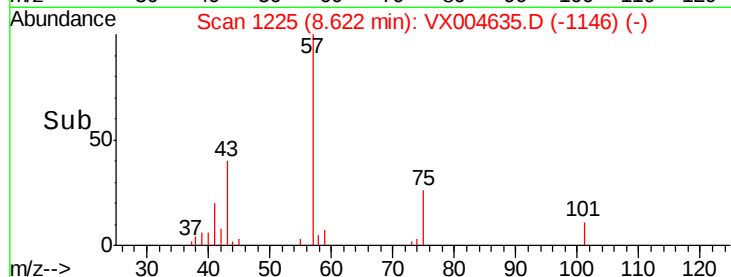
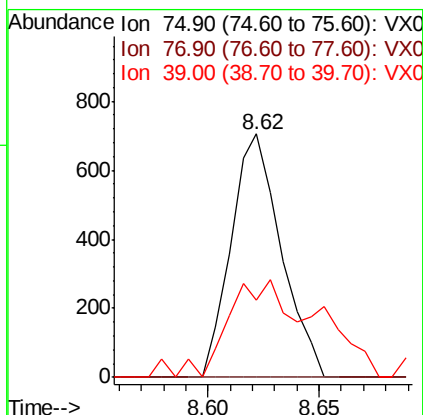
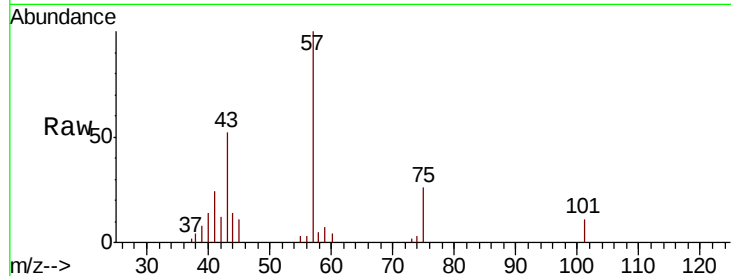




#54
 cis-1,3-Dichloropropene
 Concen: 0.28 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX004635.D
 Acq: 17 Sep 2018 22:39

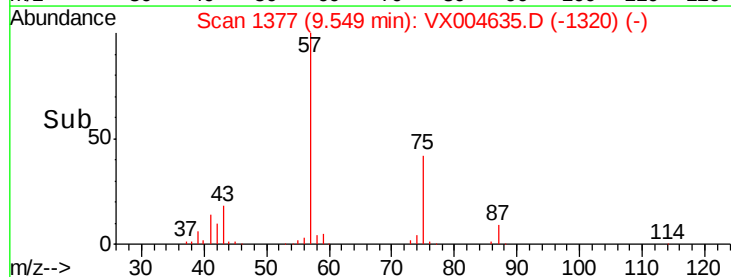
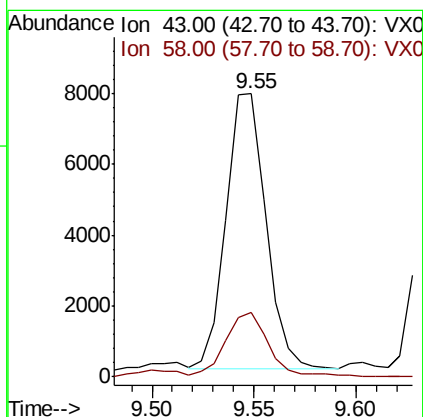
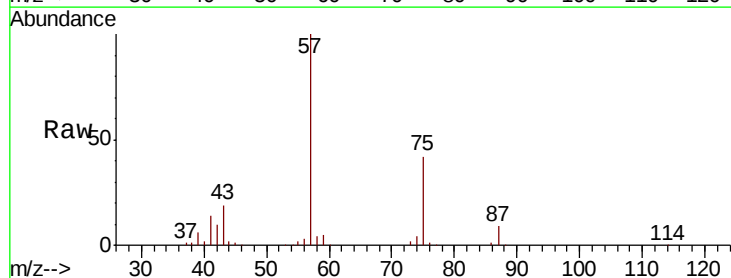
Instrument :
 MSVOA_X
 ClientSampleId :

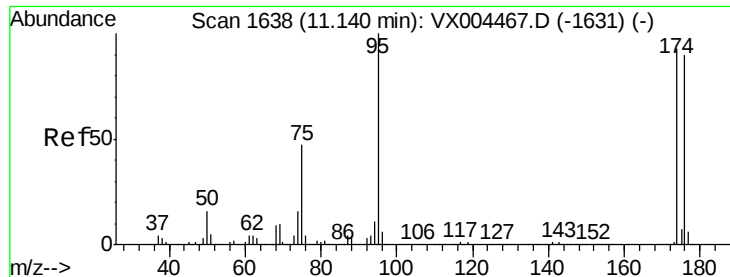
Tot Ion: 75 Resp: 1099
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 24.4 36.4 54.6#



#59
 2-Hexanone
 Concen: 3.32 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX004635.D
 Acq: 17 Sep 2018 22:39

Tgt Ion: 43 Resp: 10501
 Ion Ratio Lower Upper
 43 100
 58 25.4 29.0 87.0#





#62

4-Bromofluorobenzene

Concen: 44.69 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

Instrument :

MSVOA_X

ClientSampleId :

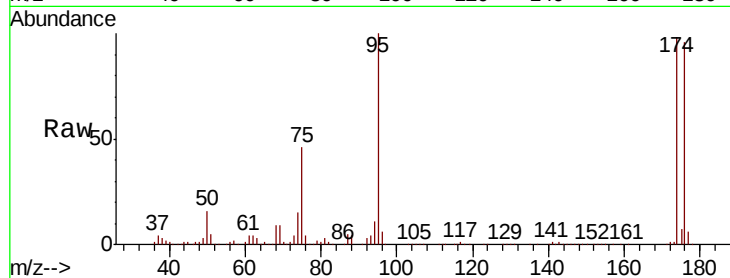
Tot Ion: 95 Resp: 155933

Ion Ratio Lower Upper

95 100

174 95.1 0.0 185.2

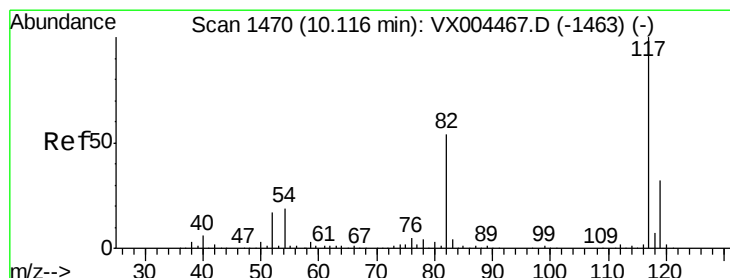
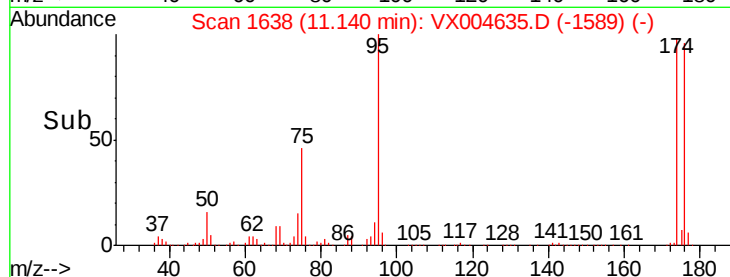
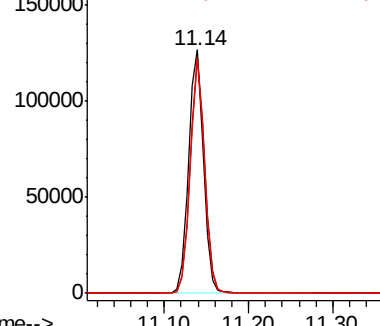
176 92.2 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

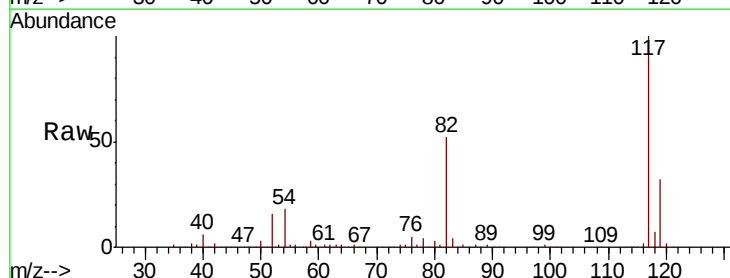
Tgt Ion: 117 Resp: 309529

Ion Ratio Lower Upper

117 100

82 52.3 47.8 71.6

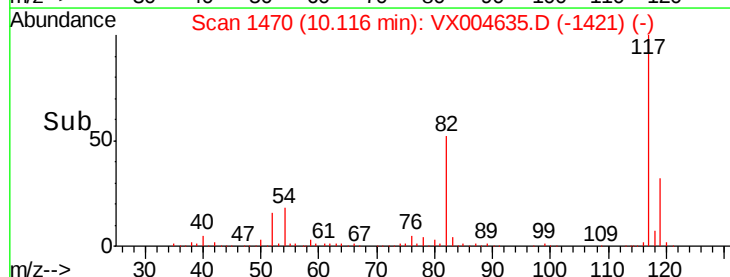
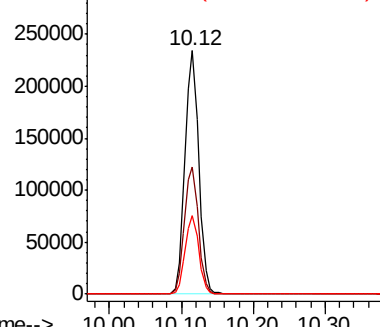
119 32.3 29.3 43.9

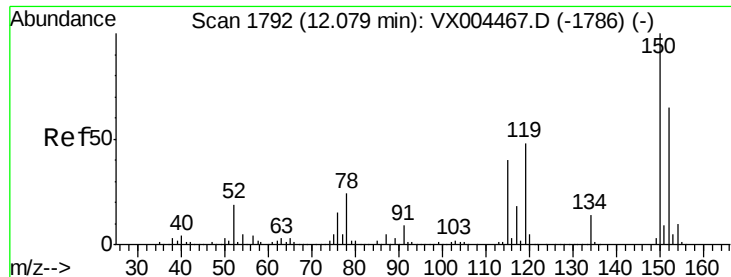


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

Instrument :

MSVOA_X

ClientSampleId :

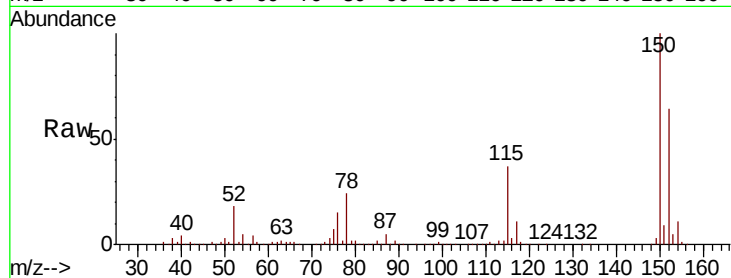
Tot Ion:152 Resp: 188738

Ion Ratio Lower Upper

152 100

115 53.2 39.0 117.0

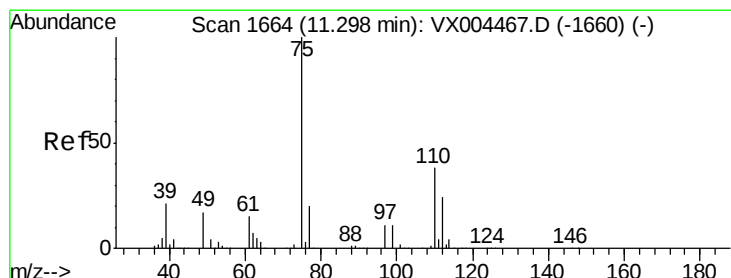
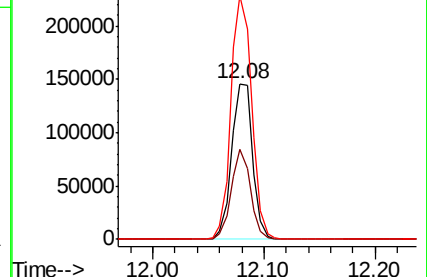
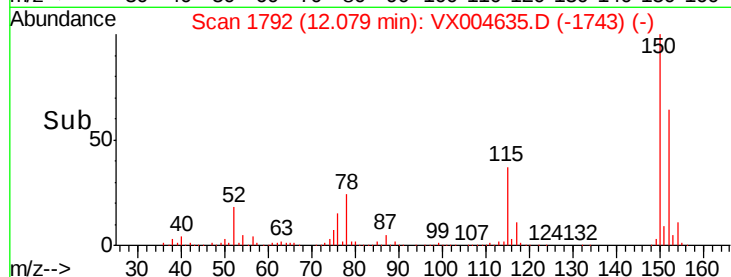
150 156.1 0.0 351.0



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: 19.17 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004635.D

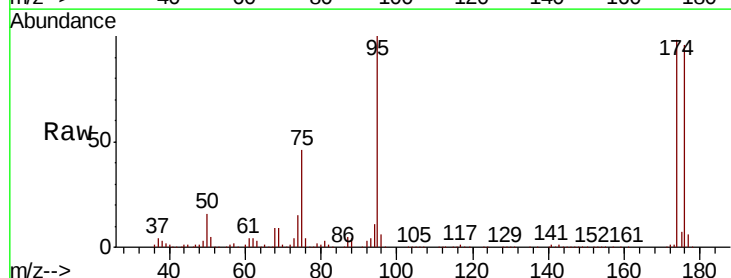
Acq: 17 Sep 2018 22:39

Tgt Ion: 75 Resp: 72800

Ion Ratio Lower Upper

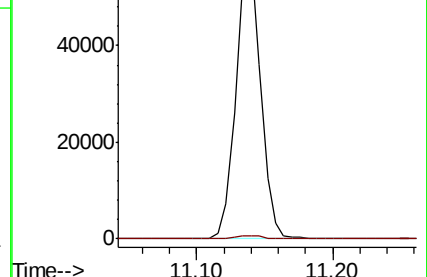
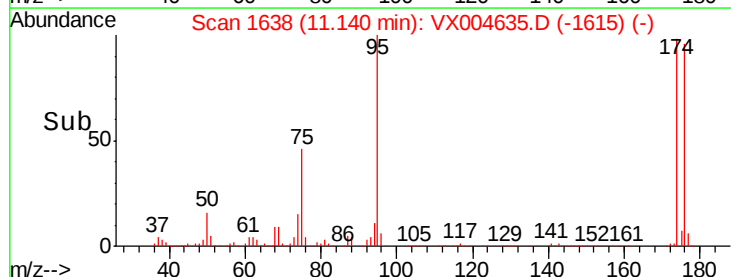
75 100

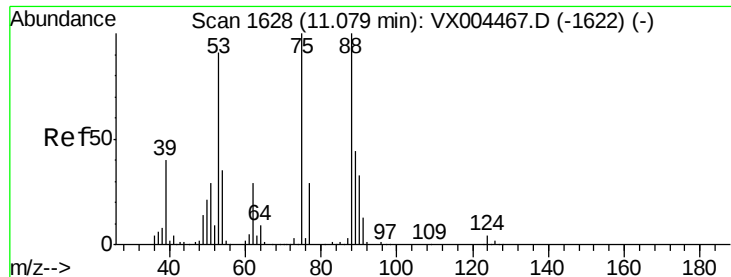
77 1.4 20.2 60.6#



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: 61.11 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004635.D

Acq: 17 Sep 2018 22:39

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 72800

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

