

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091718\
 Data File : VX004638.D
 Acq On : 17 Sep 2018 23:59
 Operator : JC/MD
 Sample : PB112894ZHE#13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 18 00:58:17 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	223362	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	318376	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	310523	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	191917	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	151475	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	
35) Dibromofluoromethane	5.51	113	142080	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
50) Toluene-d8	8.71	98	447252	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	
62) 4-Bromofluorobenzene	11.14	95	156423	44.85	ug/l	0.00
Spiked Amount			Recovery	=	89.70%	

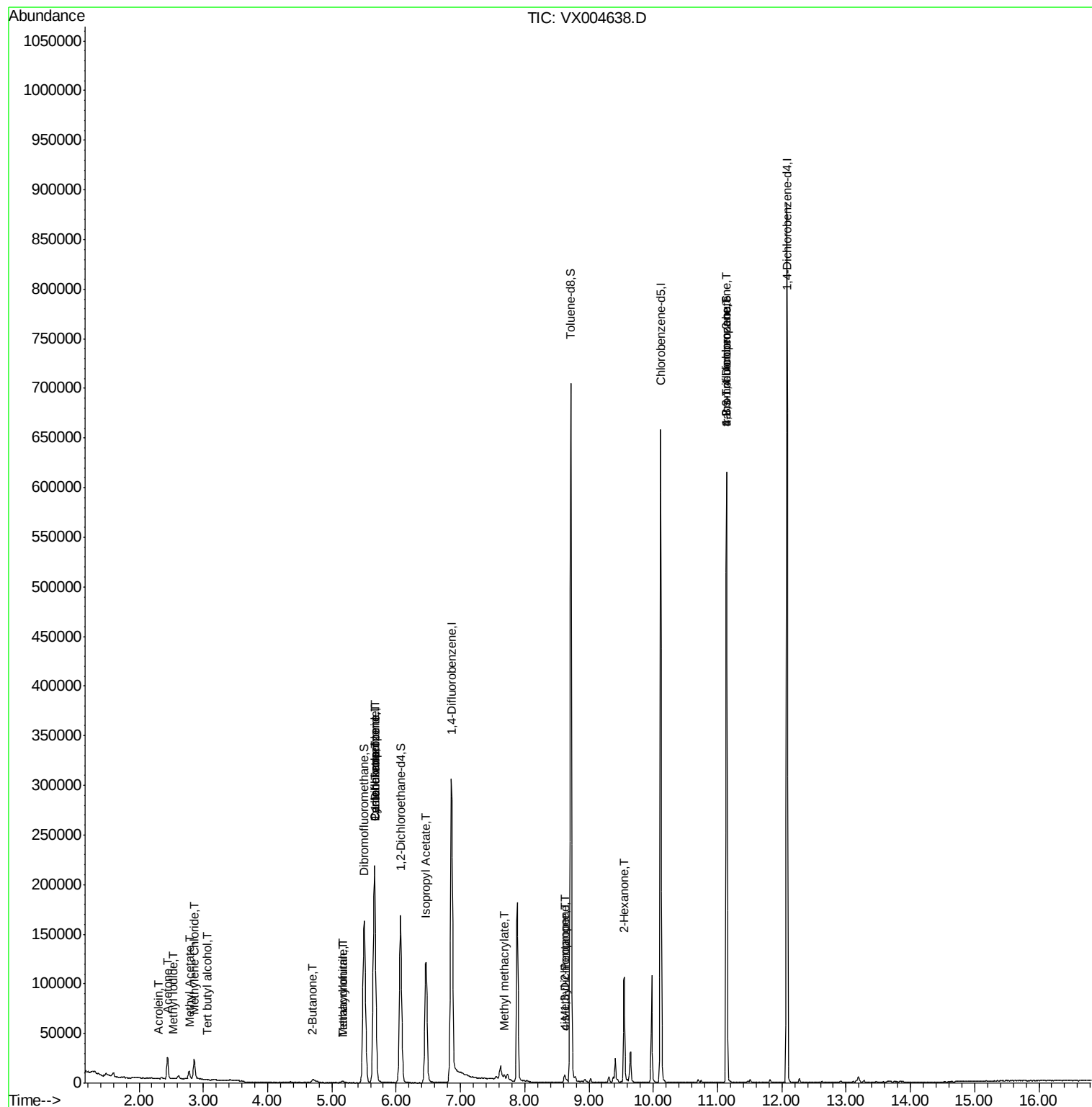
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	302	Below Cal	#	75
10) Methyl Iodide	2.53	142	24	4.26	ug/l #	41
11) Tert butyl alcohol	3.07	59	388	0.56	ug/l	97
13) Acrolein	2.29	56	95	0.35	ug/l #	32
16) Acetone	2.44	43	23508	16.72	ug/l	95
18) Methyl Acetate	2.78	43	10295	2.61	ug/l	97
20) Methylene Chloride	2.85	84	9469	3.28	ug/l #	86
25) 2-Butanone	4.70	43	6262	2.80	ug/l #	89
29) Tetrahydrofuran	5.16	42	1577	1.17	ug/l	90
31) Cyclohexane	5.67	56	3462	0.83	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14475	3.74	ug/l #	49
38) Carbon Tetrachloride	5.66	117	19921	5.28	ug/l #	16
41) Methacrylonitrile	5.17	41	1007	0.42	ug/l #	47
43) Isopropyl Acetate	6.46	43	160393	27.47	ug/l	100
48) Methyl methacrylate	7.68	41	6222	2.15	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	2381	0.58	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1198	0.31	ug/l #	66
59) 2-Hexanone	9.55	43	11275	3.57	ug/l #	56
76) 1,2,3-Trichloropropane	11.14	75	72720	18.83	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	72720	60.03	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004638.D

Acq: 17 Sep 2018 23:59

Instrument :

MSVOA_X

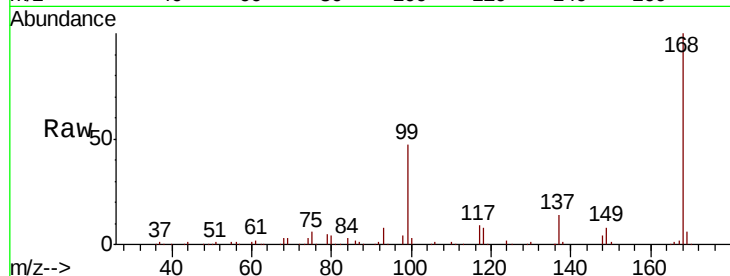
ClientSampled :

Tot Ion:168 Resp: 223362

Ion Ratio Lower Upper

168 100

99 47.4 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

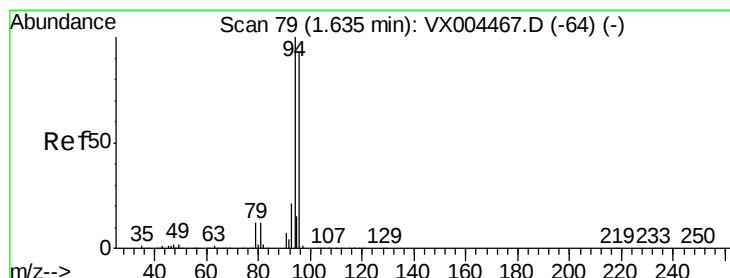
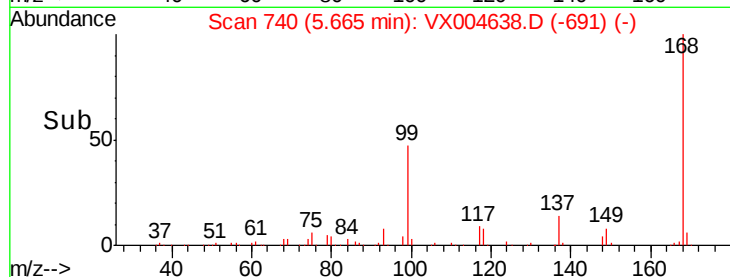
40000

20000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004638.D

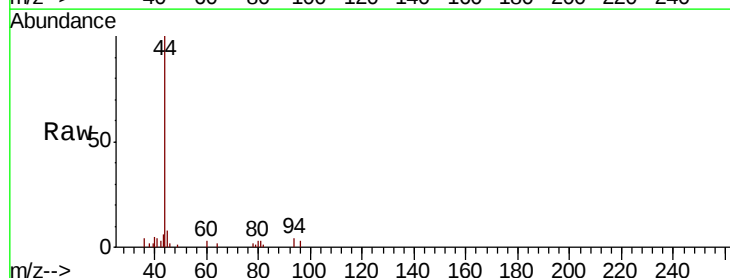
Acq: 17 Sep 2018 23:59

Tgt Ion: 94 Resp: 302

Ion Ratio Lower Upper

94 100

96 69.1 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

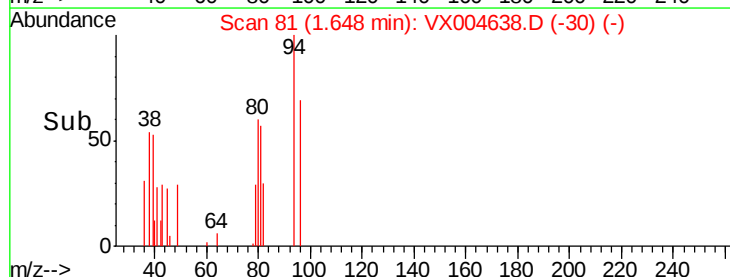
100

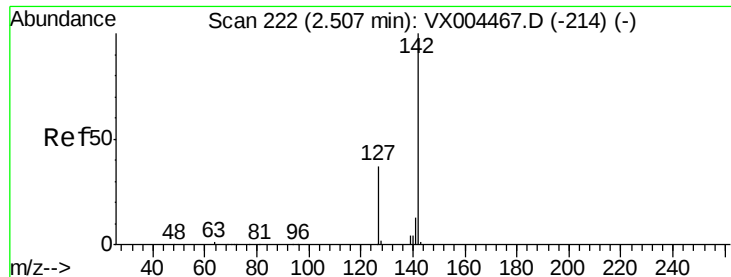
50

0

Time-->

1.65 1.70

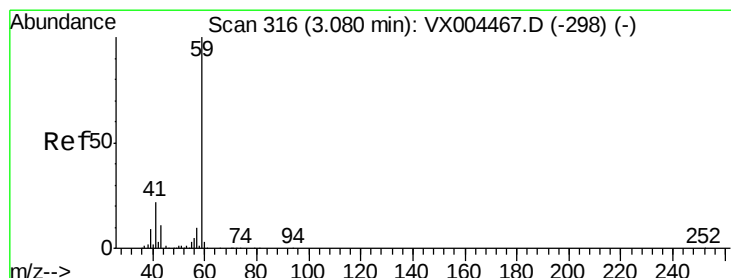
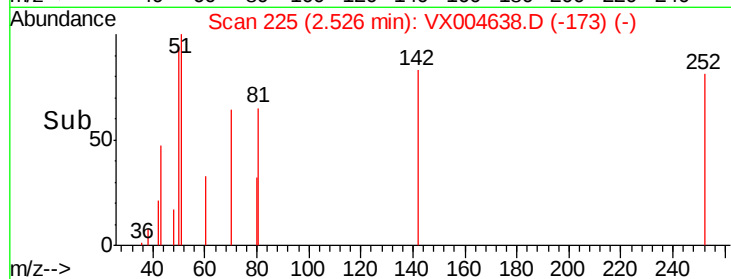
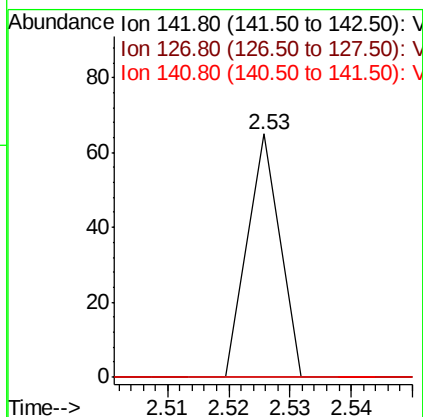
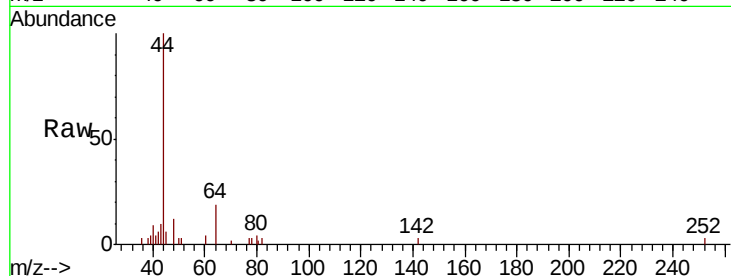




#10
Methyl Iodide
Concen: 4.26 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

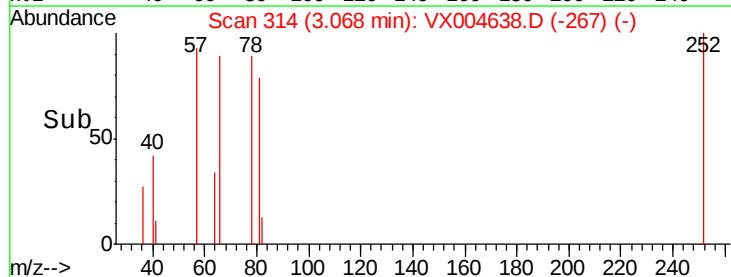
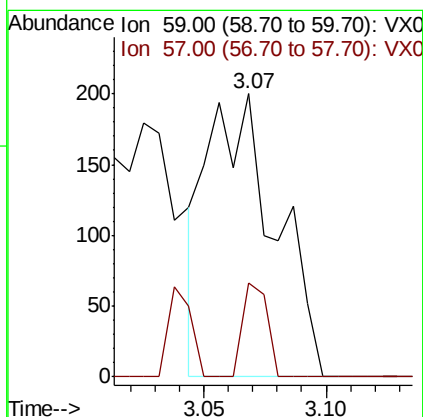
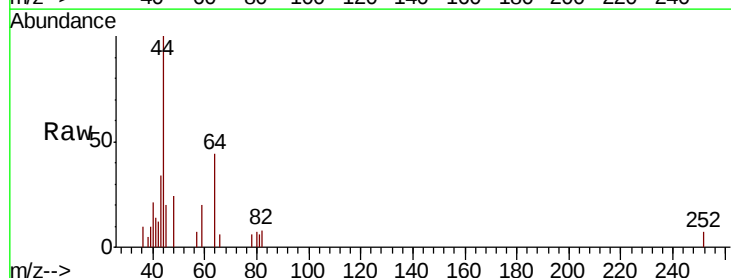
Instrument :
MSVOA_X
ClientSampled :

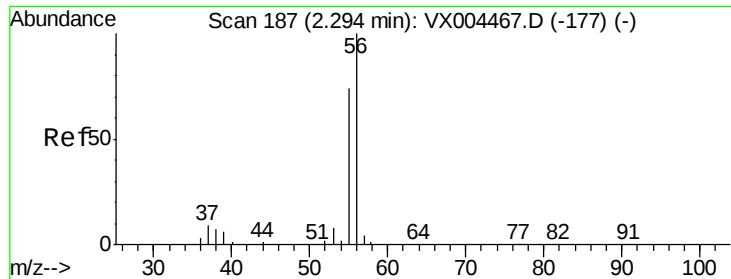
Tot Ion:142 Resp: 24
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.56 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

Tgt Ion: 59 Resp: 388
Ion Ratio Lower Upper
59 100
57 11.6 8.2 12.4

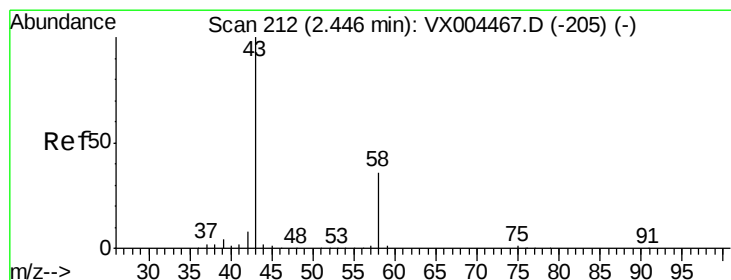
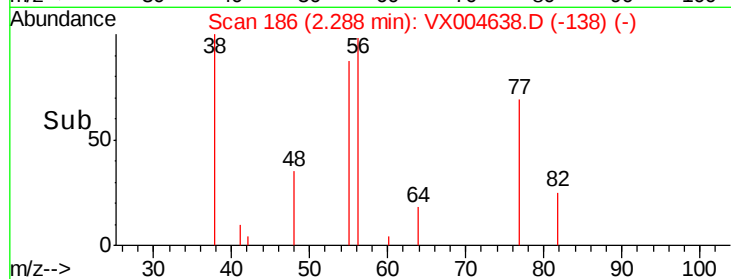
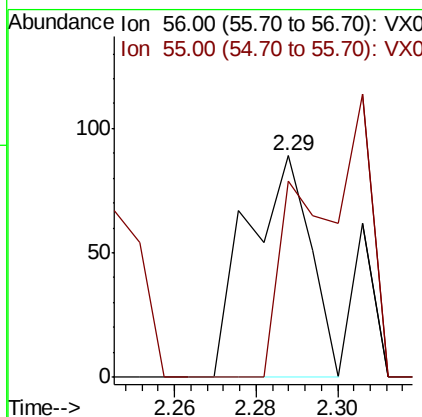
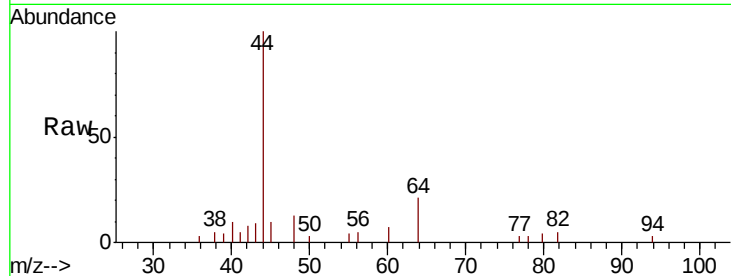




#13
Acrolein
Concen: 0.35 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

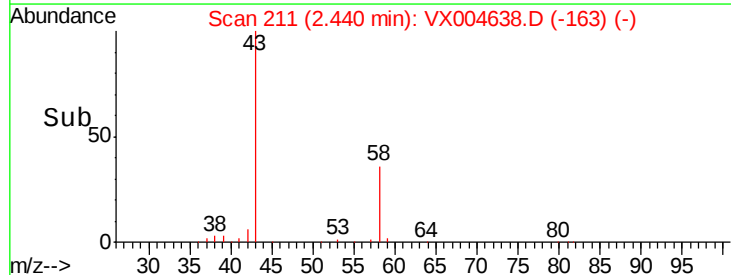
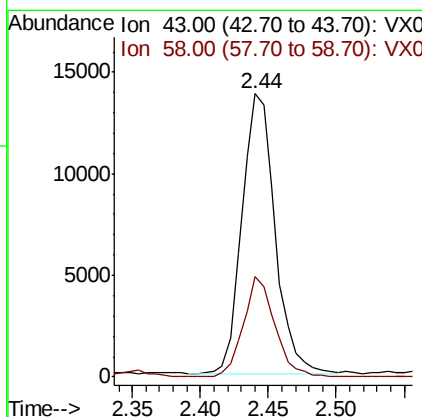
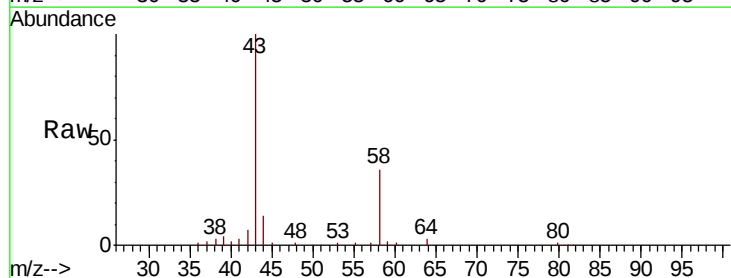
Instrument :
MSVOA_X
ClientSampled :

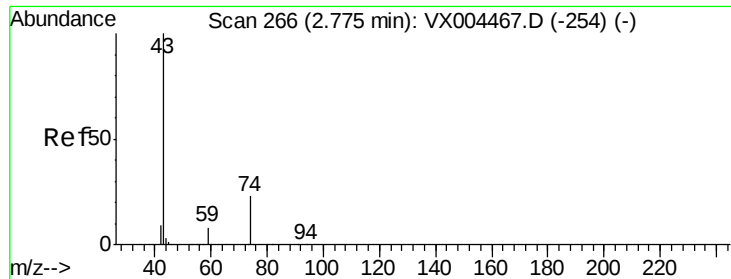
Tot Ion: 56 Resp: 95
Ion Ratio Lower Upper
56 100
55 123.2 54.7 82.1#



#16
Acetone
Concen: 16.72 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

Tgt Ion: 43 Resp: 23508
Ion Ratio Lower Upper
43 100
58 35.9 26.2 39.4

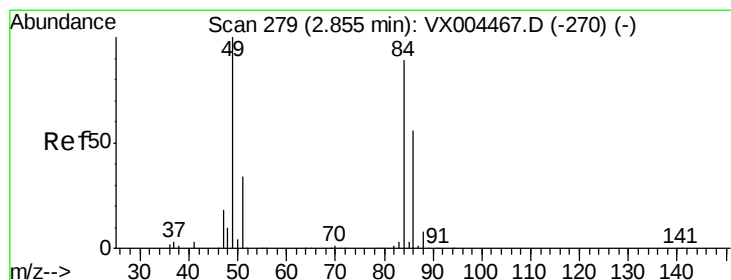
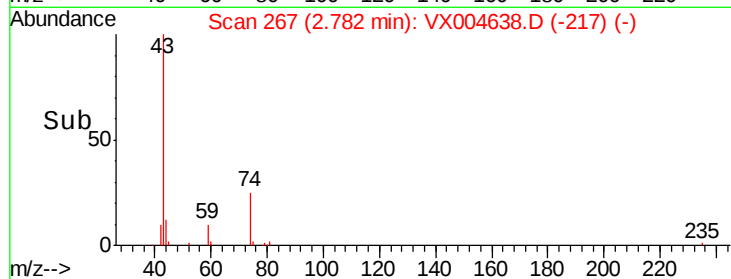
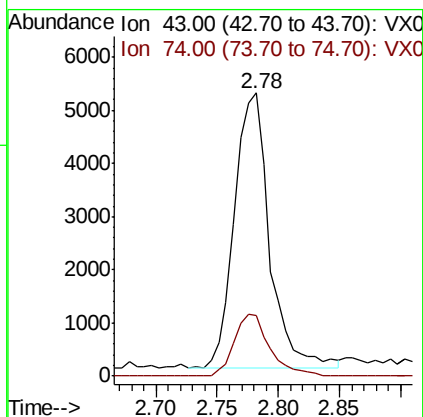
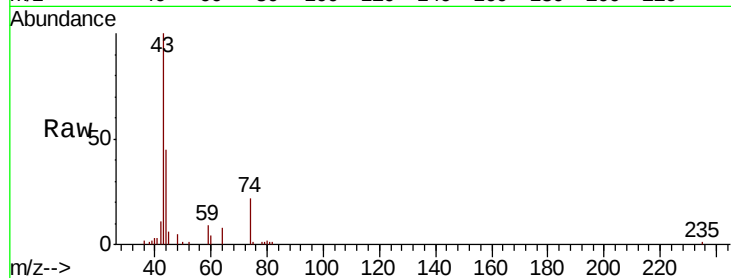




#18
Methvl Acetate
Concen: 2.61 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

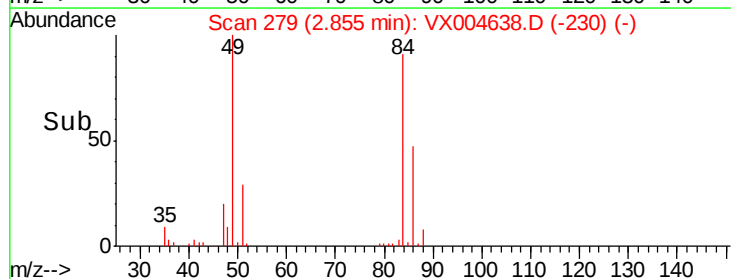
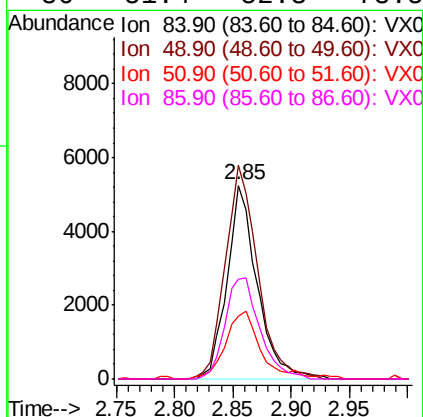
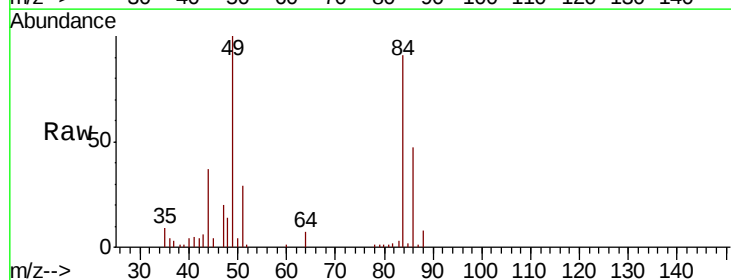
Instrument :
MSVOA_X
ClientSampleId :

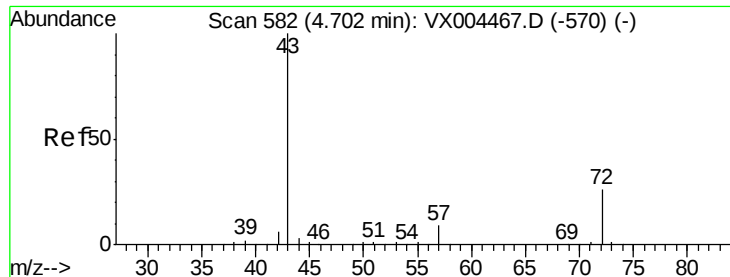
Tot Ion: 43 Resp: 10295
Ion Ratio Lower Upper
43 100
74 22.9 19.4 29.2



#20
Methylene Chloride
Concen: 3.28 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

Tgt Ion: 84 Resp: 9469
Ion Ratio Lower Upper
84 100
49 110.2 101.2 151.8
51 32.1 29.5 44.3
86 51.4 52.3 78.5#





#25

2-Butanone

Concen: 2.80 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX004638.D

Acq: 17 Sep 2018 23:59

Instrument :

MSVOA_X

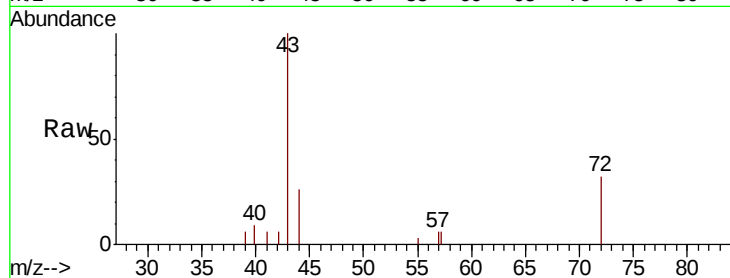
ClientSampleId :

Tot Ion: 43 Resp: 6262

Ion Ratio Lower Upper

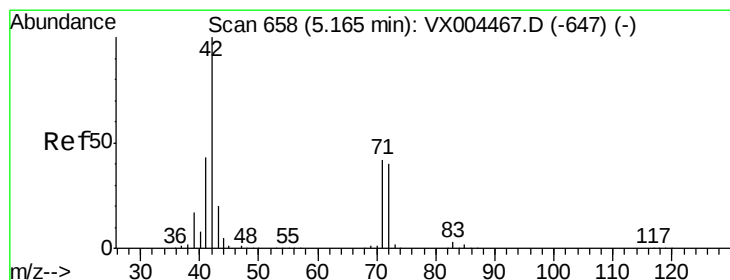
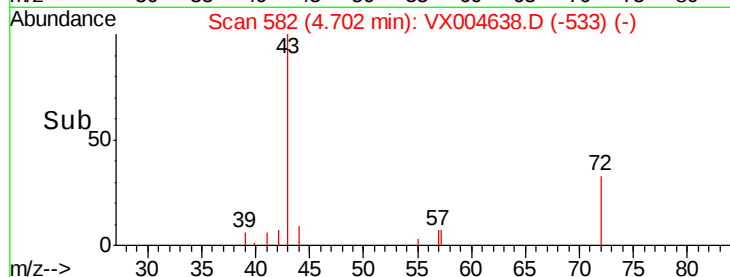
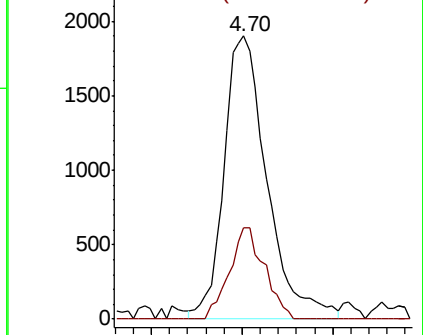
43 100

72 33.1 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: 1.17 ug/l

RT: 5.16 min Scan# 657

Delta R.T. -0.01 min

Lab File: VX004638.D

Acq: 17 Sep 2018 23:59

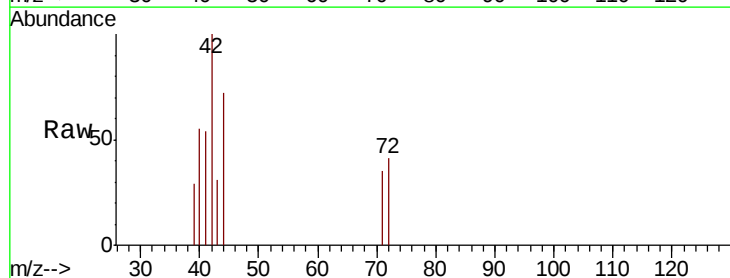
Tgt Ion: 42 Resp: 1577

Ion Ratio Lower Upper

42 100

72 39.3 37.4 56.0

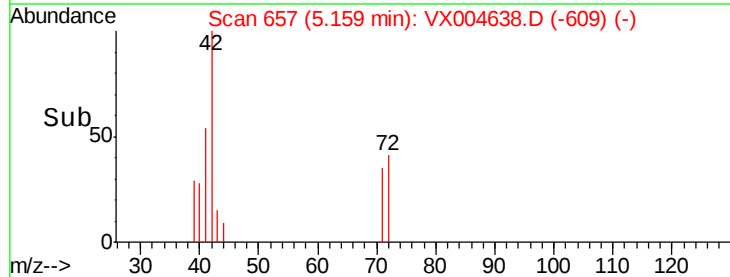
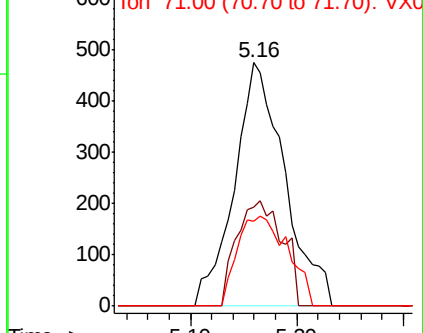
71 37.0 34.5 51.7

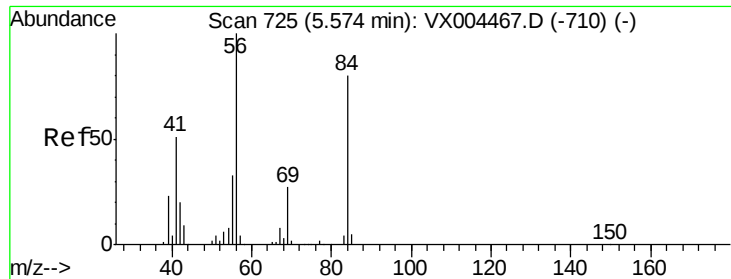


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

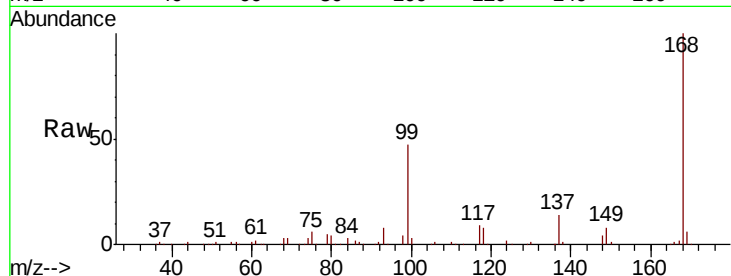




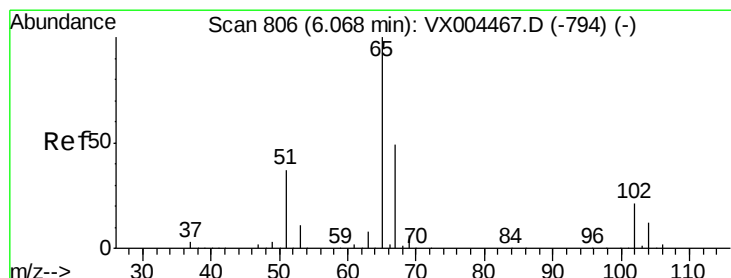
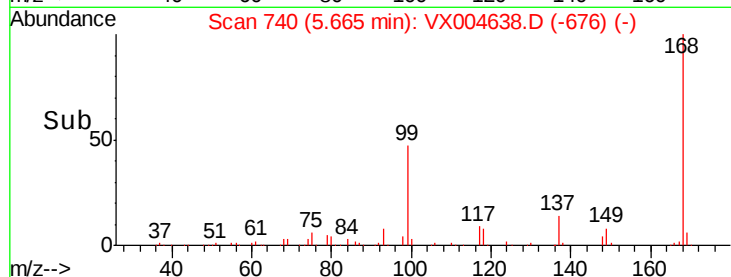
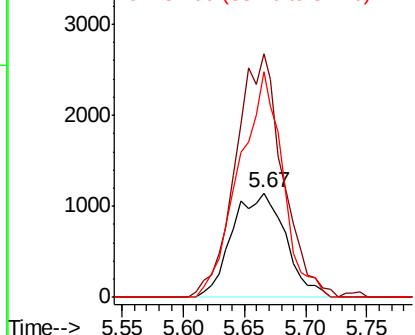
#31
Cyclohexane
Concen: 0.83 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 3462
Ion Ratio Lower Upper
56 100
69 232.5 25.4 38.2#
84 215.5 71.4 107.2#

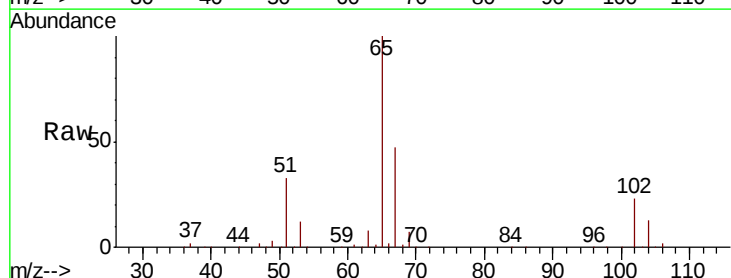


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

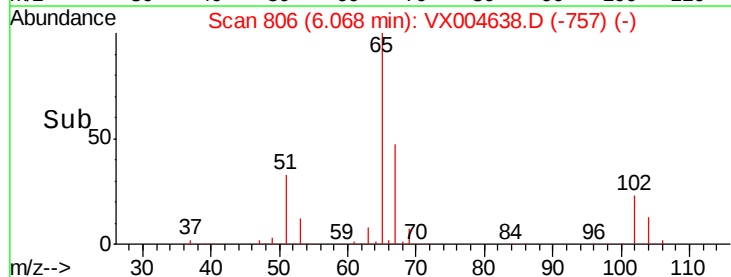
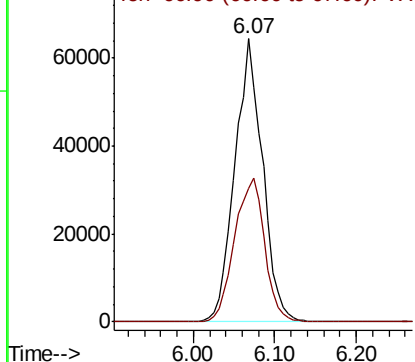


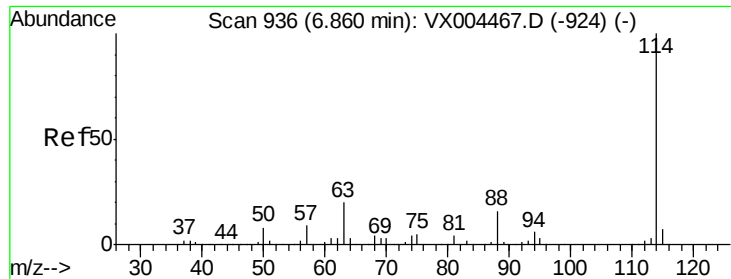
#33
1,2-Dichloroethane-d4
Concen: 52.59 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

Tgt Ion: 65 Resp: 151475
Ion Ratio Lower Upper
65 100
67 55.0 0.0 106.8



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

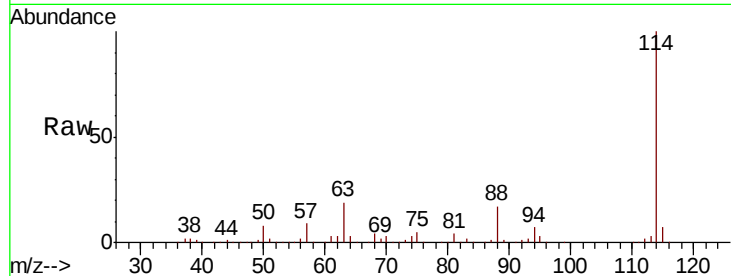




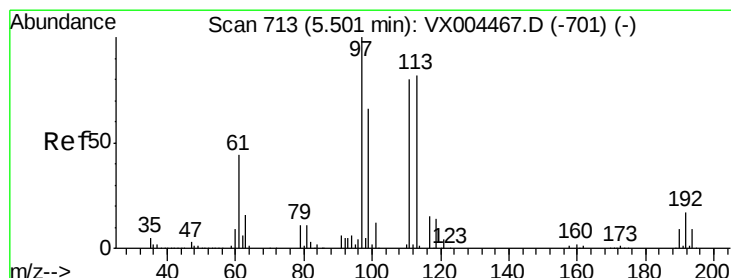
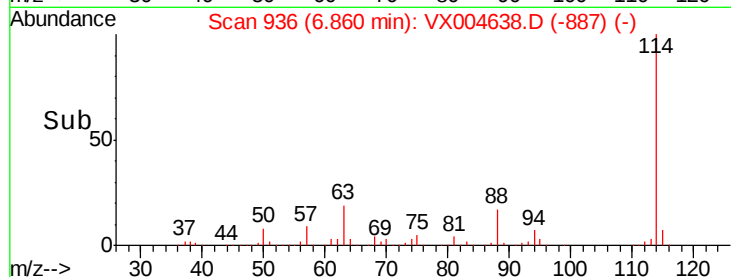
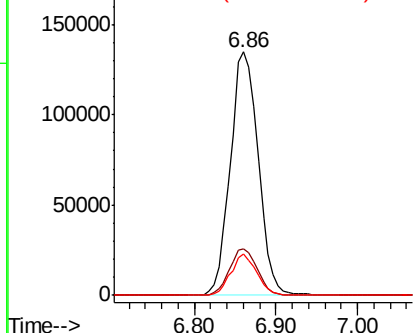
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:114 Resp: 318376
Ion Ratio Lower Upper
114 100
63 19.4 0.0 39.0
88 16.9 0.0 30.4

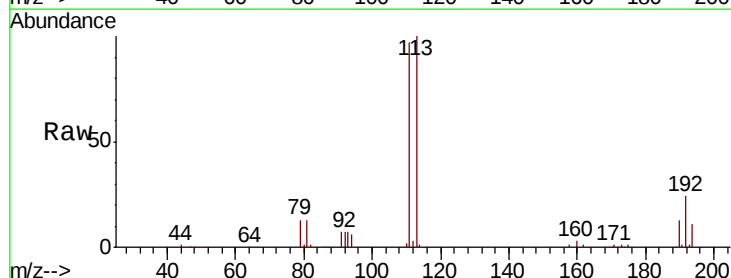


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

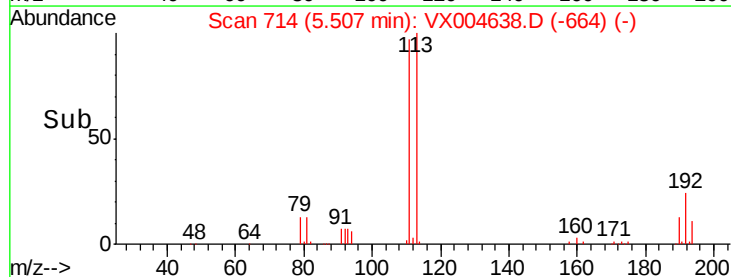
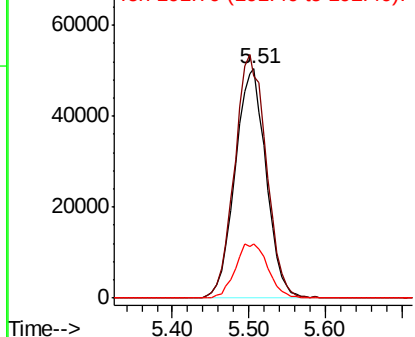


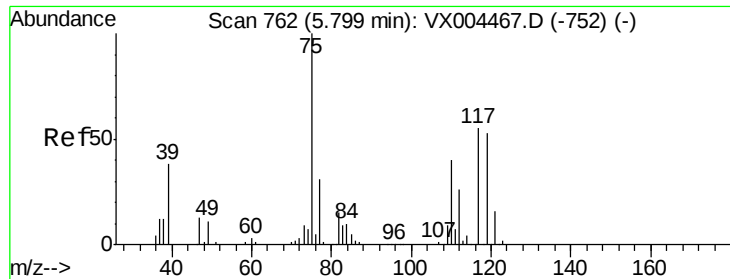
#35
Dibromofluoromethane
Concen: 48.77 ug/l
RT: 5.51 min Scan# 714
Delta R.T. 0.01 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

Tgt Ion:113 Resp: 142080
Ion Ratio Lower Upper
113 100
111 107.8 82.4 123.6
192 24.7 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

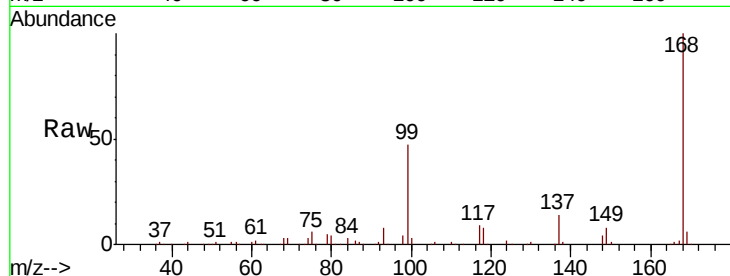




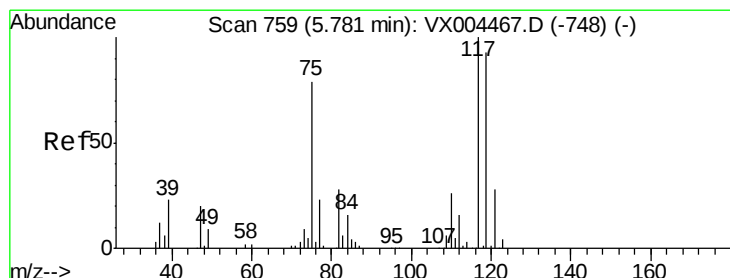
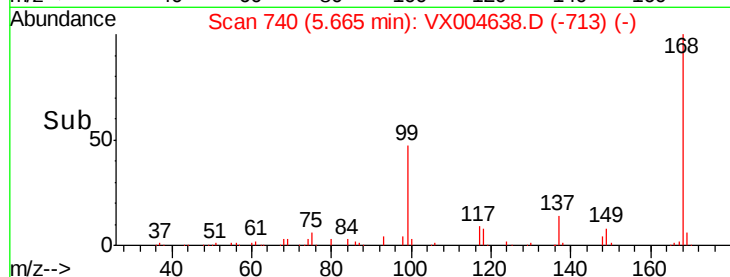
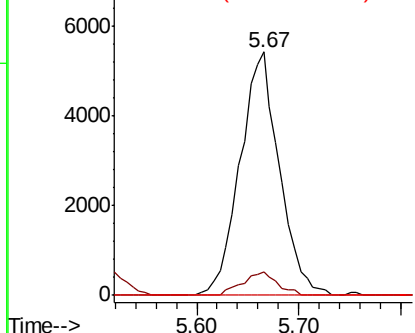
#36
 1,1-Dichloropropene
 Concen: 3.74 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004638.D
 Acq: 17 Sep 2018 23:59

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	75	Resp	14475
Ion Ratio	100	Lower	Upper
75	100		
110	8.5	18.0	54.0#
77	0.0	24.6	36.8#

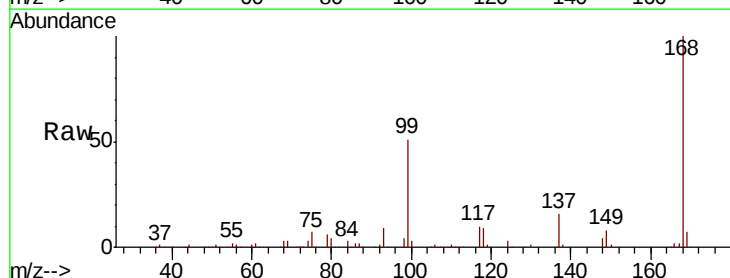


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

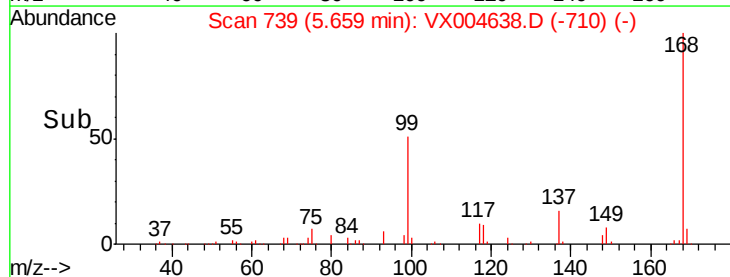
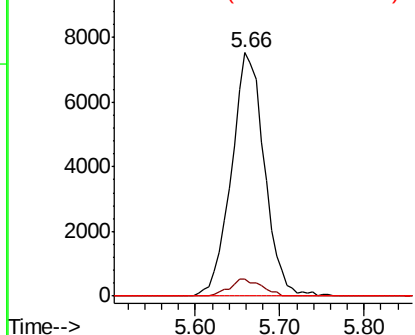


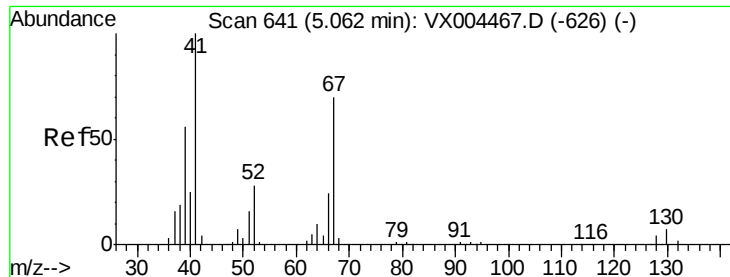
#38
 Carbon Tetrachloride
 Concen: 5.28 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX004638.D
 Acq: 17 Sep 2018 23:59

Tgt Ion	117	Resp	19921
Ion Ratio	100	Lower	Upper
117	100		
119	7.2	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

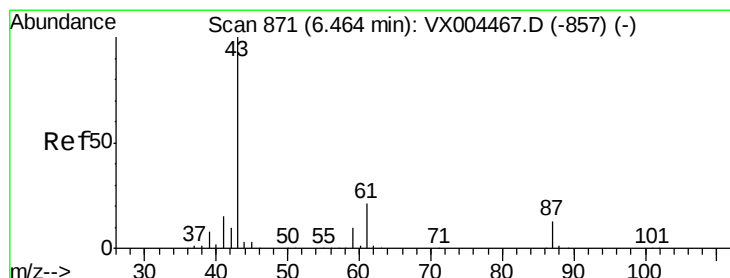
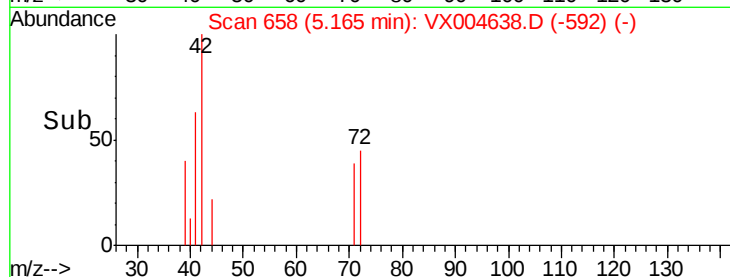
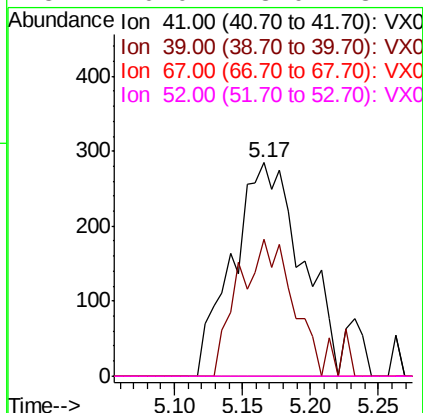
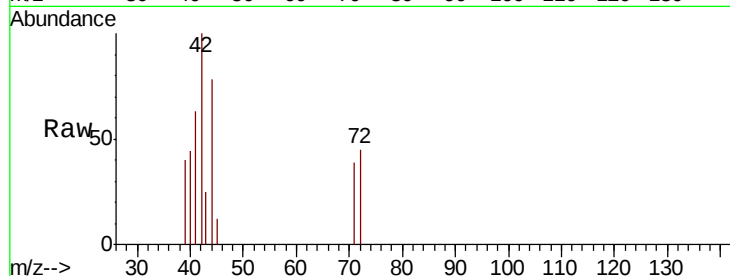




#41
Methacrylonitrile
Concen: 0.42 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.10 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

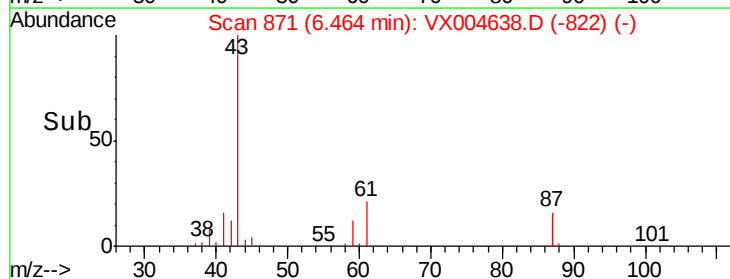
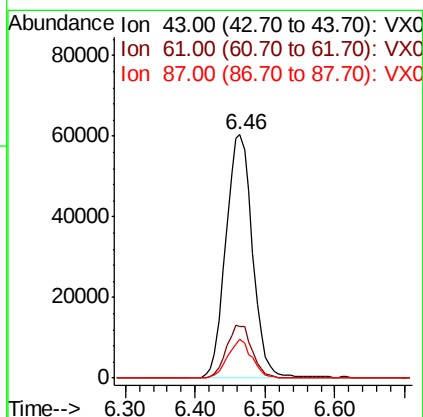
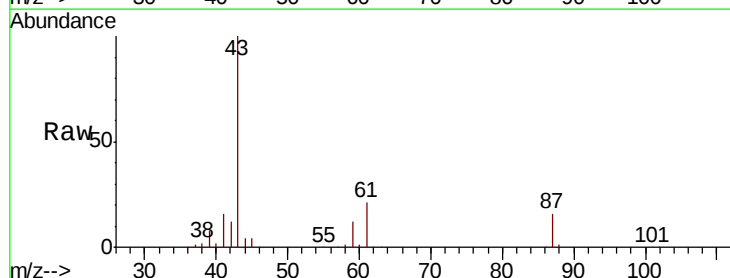
Instrument :
MSVOA_X
ClientSampled :

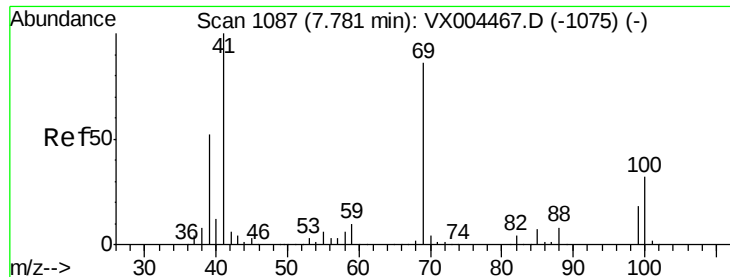
Tot Ion:	41	Resp:	1007
Ion	Ratio	Lower	Upper
41	100		
39	50.1	42.4	63.6
67	0.0	59.2	88.8#
52	0.0	23.0	34.4#



#43
Isopropyl Acetate
Concen: 27.47 ug/l
RT: 6.46 min Scan# 871
Delta R.T. 0.00 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

Tgt Ion:	43	Resp:	160393
Ion	Ratio	Lower	Upper
43	100		
61	20.9	17.0	25.4
87	14.4	11.4	17.2





#48

Methvl methacrylate

Concen: 2.15 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.10 min

Lab File: VX004638.D

Acq: 17 Sep 2018 23:59

Instrument :

MSVOA_X

ClientSampleId :

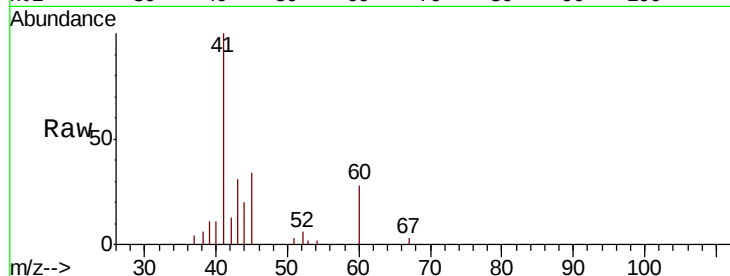
Tot Ion: 41 Resp: 6222

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

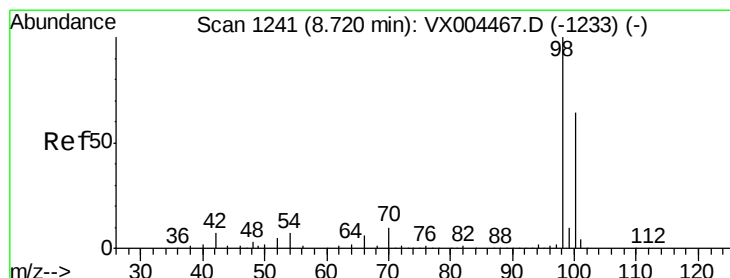
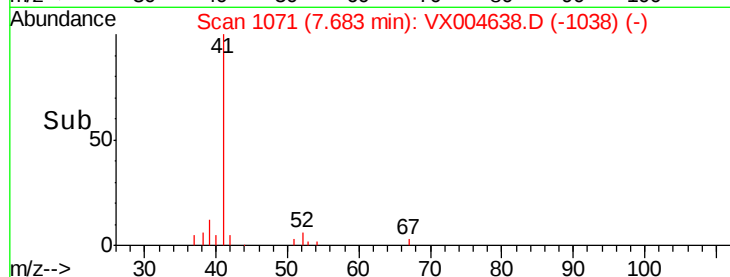
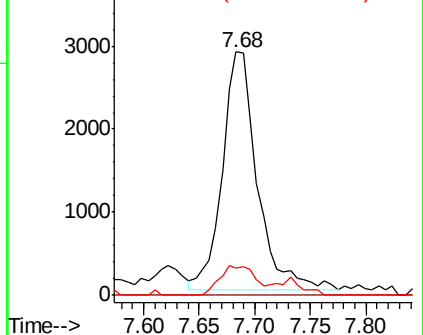
39 13.1 42.7 64.1#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#50

Toluene-d8

Concen: 45.78 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004638.D

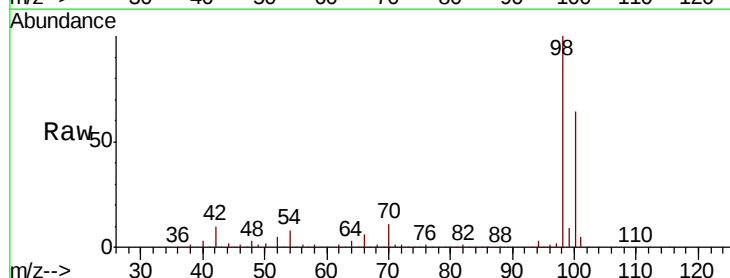
Acq: 17 Sep 2018 23:59

Tgt Ion: 98 Resp: 447252

Ion Ratio Lower Upper

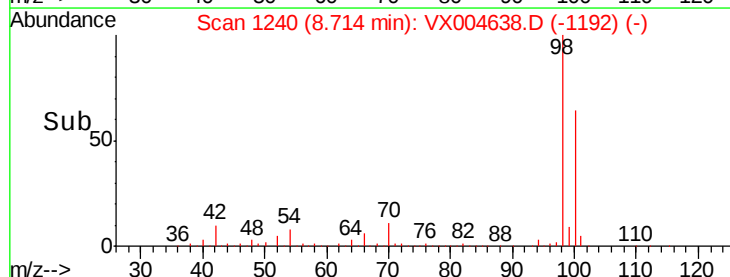
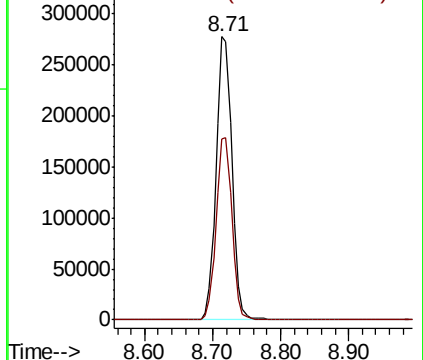
98 100

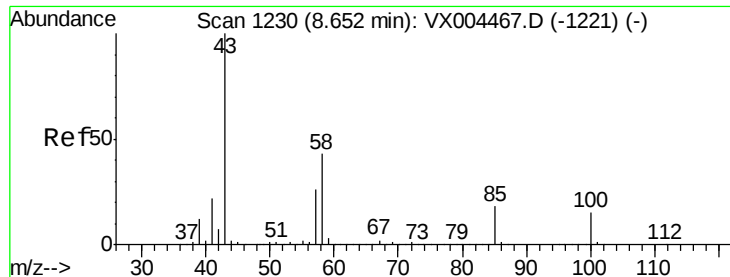
100 64.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.58 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004638.D

Acq: 17 Sep 2018 23:59

Instrument :

MSVOA_X

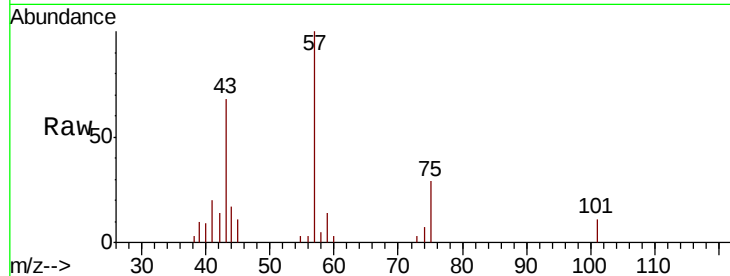
ClientSampleId :

Tot Ion: 43 Resp: 2381

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

1500

1000

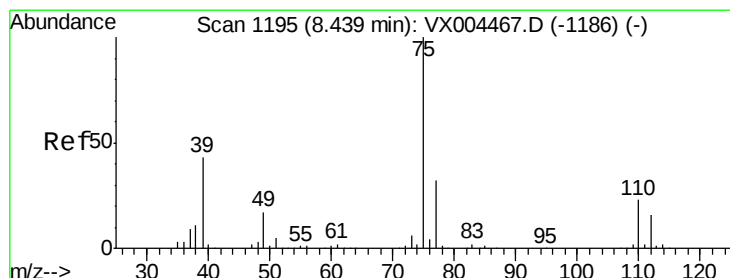
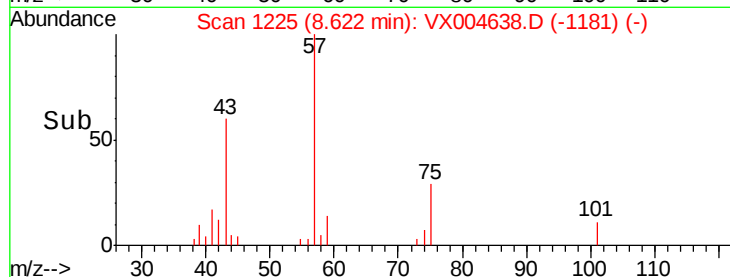
500

0

8.55 8.60 8.65

8.62

Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.31 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004638.D

Acq: 17 Sep 2018 23:59

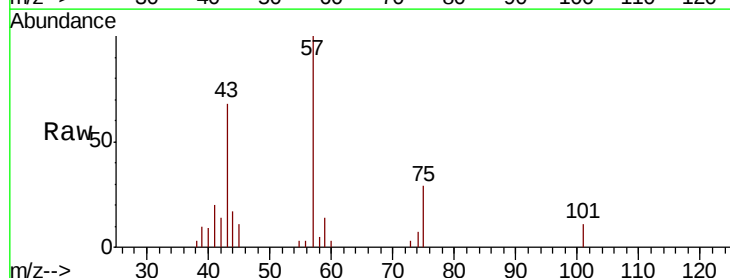
Tgt Ion: 75 Resp: 1198

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

39 34.9 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

1000

800

600

400

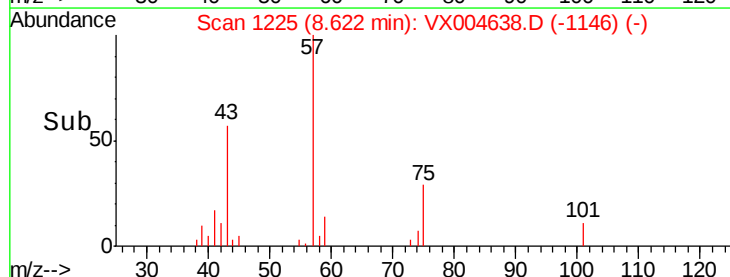
200

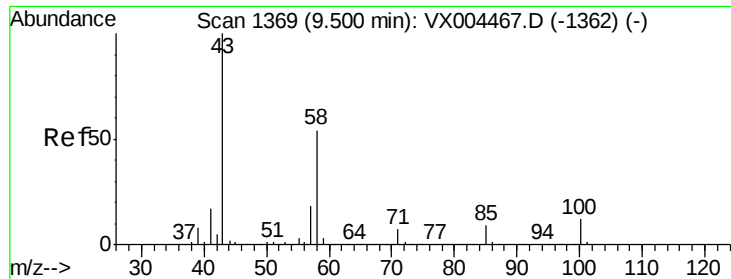
0

8.60 8.65

8.62

Time-->

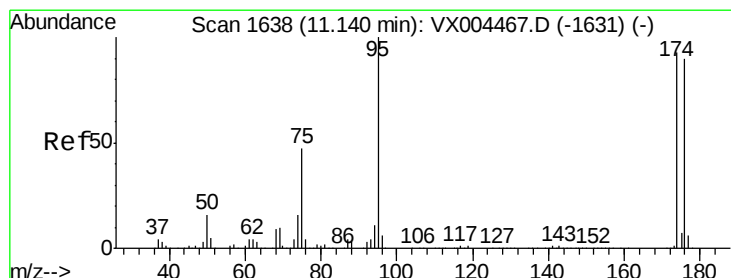
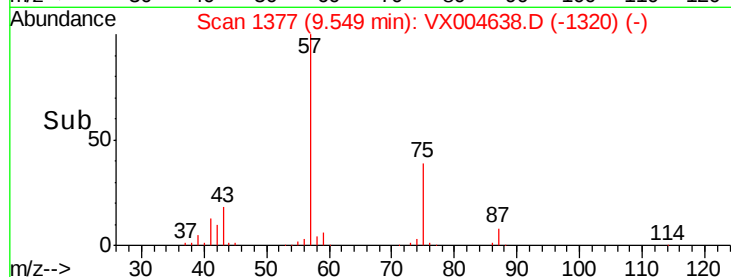
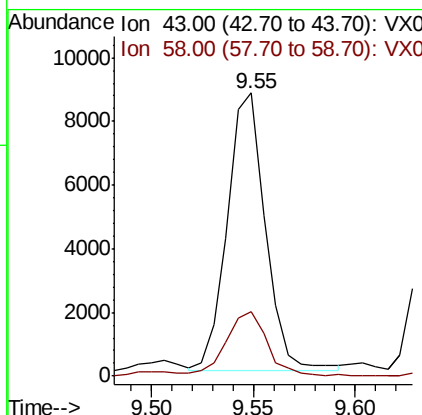
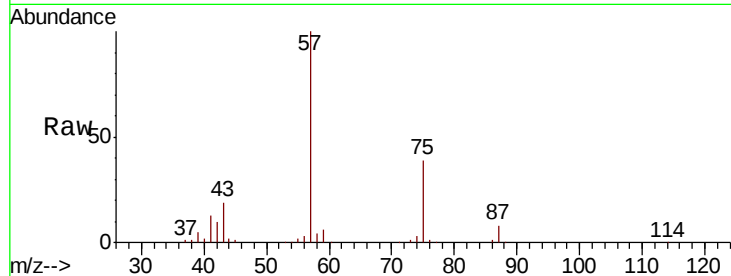




#59
2-Hexanone
Concen: 3.57 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

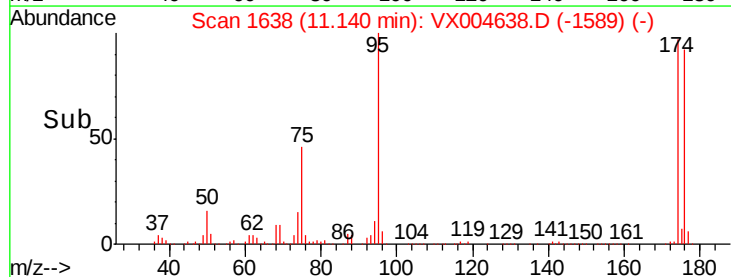
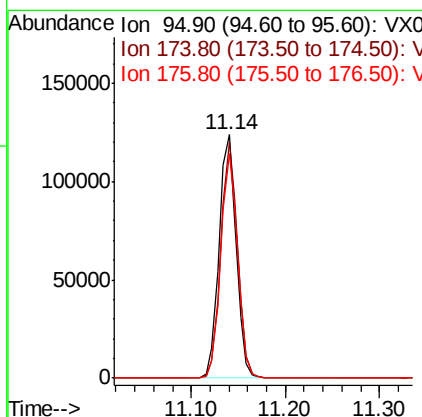
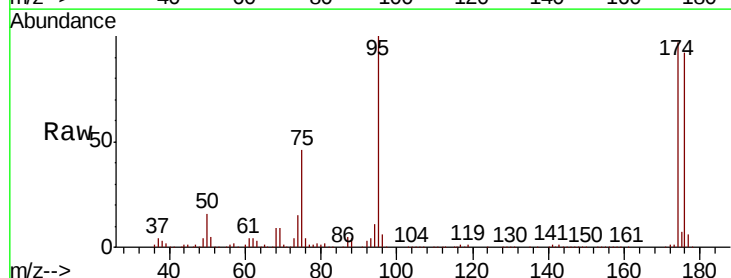
Instrument :
MSVOA_X
ClientSampleId :

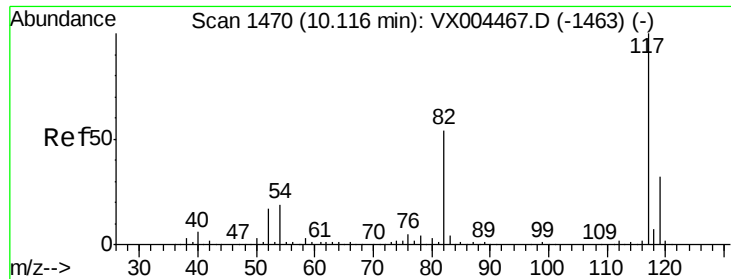
Tot Ion: 43 Resp: 11275
Ion Ratio Lower Upper
43 100
58 25.4 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 44.85 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

Tgt Ion: 95 Resp: 156423
Ion Ratio Lower Upper
95 100
174 95.2 0.0 185.2
176 90.6 0.0 178.6

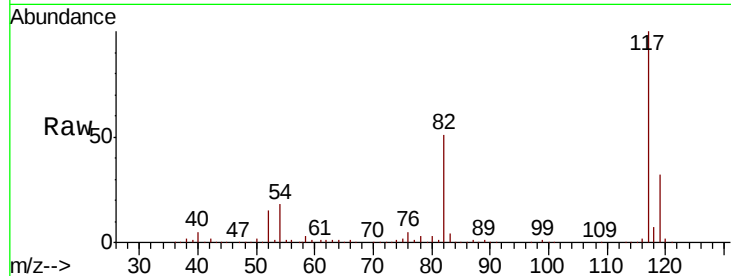




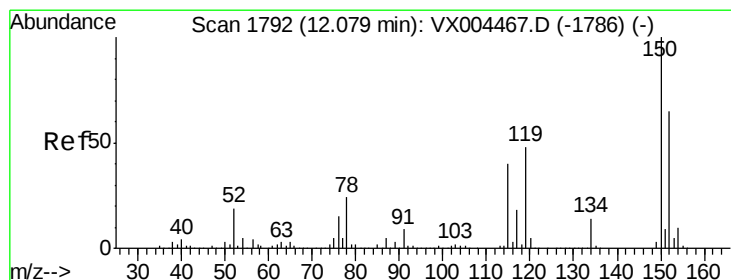
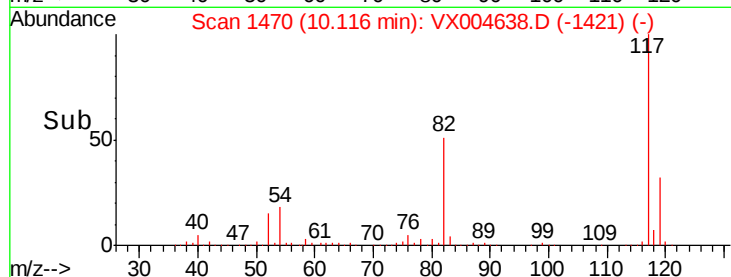
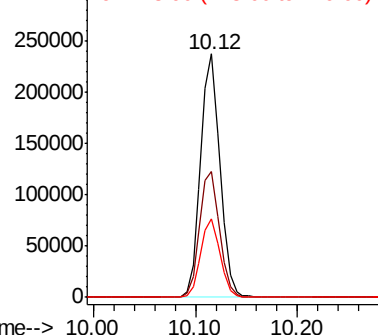
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 310523
Ion Ratio Lower Upper
117 100
82 51.5 47.8 71.6
119 32.2 29.3 43.9

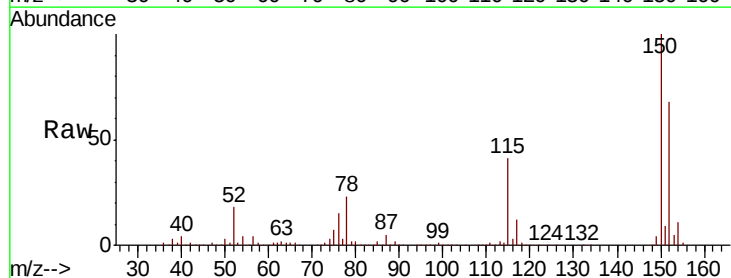


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

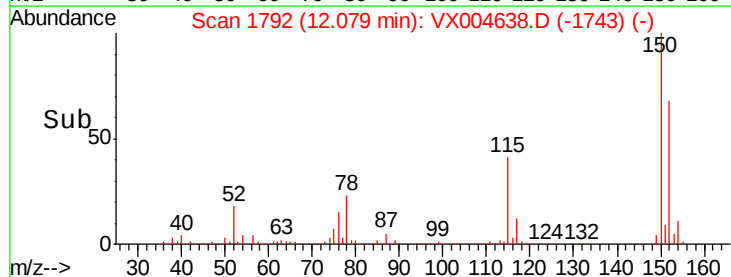
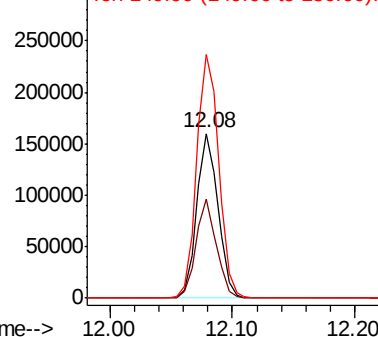


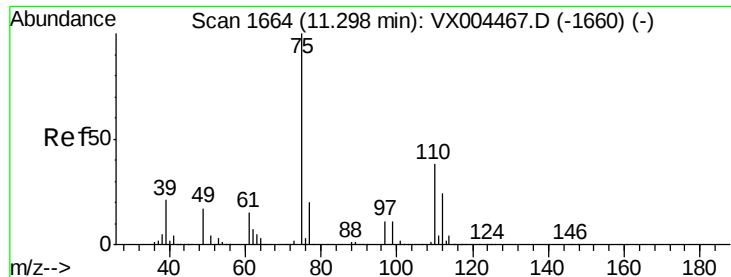
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004638.D
Acq: 17 Sep 2018 23:59

Tgt Ion:152 Resp: 191917
Ion Ratio Lower Upper
152 100
115 57.8 39.0 117.0
150 153.4 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: 18.83 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004638.D

Acq: 17 Sep 2018 23:59

Instrument :

MSVOA_X

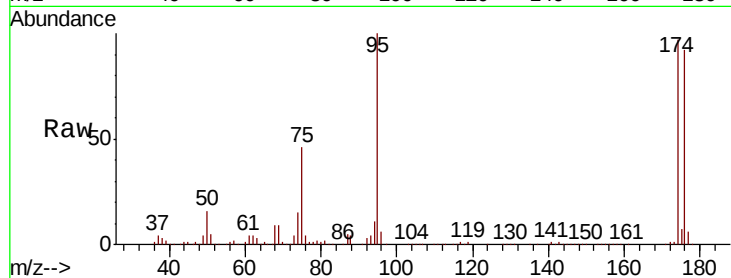
ClientSampleId :

Tot Ion: 75 Resp: 72720

Ion Ratio Lower Upper

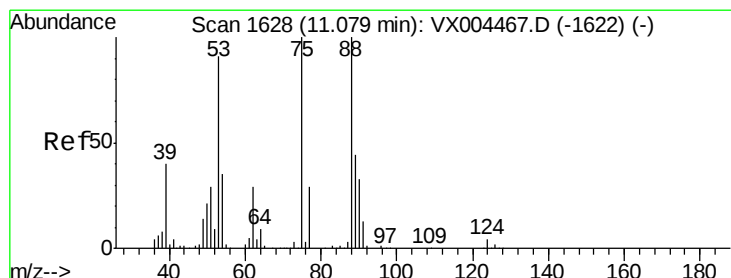
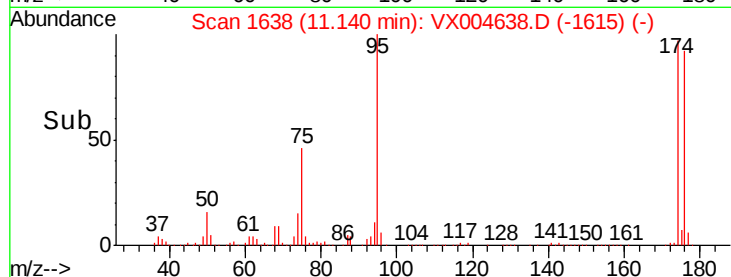
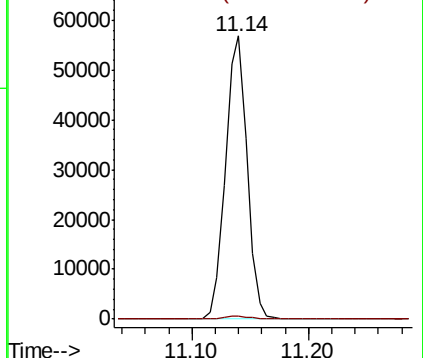
75 100

77 1.3 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: 60.03 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004638.D

Acq: 17 Sep 2018 23:59

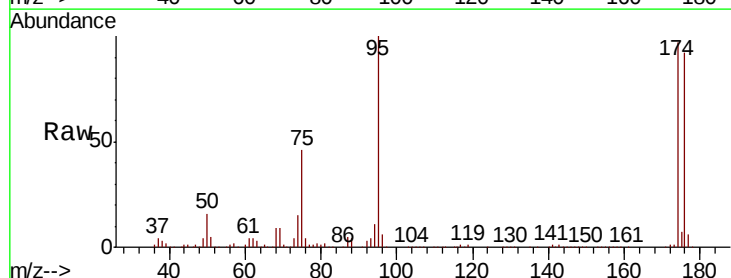
Tgt Ion: 75 Resp: 72720

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

