

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091718\
 Data File : VX004636.D
 Acq On : 17 Sep 2018 23:06
 Operator : JC/MD
 Sample : PB112894ZHE#11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 18 00:57:48 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	5.66	168	213313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	319815	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	302056	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	181114	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	146643	53.32	ug/l	0.00
Spiked Amount			Recovery	=	106.64%	
35) Dibromofluoromethane	5.51	113	131934	45.08	ug/l	0.00
Spiked Amount			Recovery	=	90.16%	
50) Toluene-d8	8.72	98	440034	44.84	ug/l	0.00
Spiked Amount			Recovery	=	89.68%	
62) 4-Bromofluorobenzene	11.14	95	153858	43.92	ug/l	0.00
Spiked Amount			Recovery	=	87.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	192	Below Cal		94
6) Chloroethane	1.76	64	1892	1.04	ug/l #	44
10) Methyl Iodide	2.52	142	53	4.27	ug/l #	41
11) Tert butyl alcohol	3.06	59	377	0.57	ug/l #	87
13) Acrolein	2.28	56	71	0.27	ug/l #	68
16) Acetone	2.45	43	22485	16.75	ug/l	95
18) Methyl Acetate	2.78	43	9563	2.54	ug/l	98
20) Methylene Chloride	2.86	84	9688	3.52	ug/l	90
25) 2-Butanone	4.70	43	6294	2.95	ug/l	98
29) Tetrahydrofuran	5.17	42	1589	1.23	ug/l #	91
31) Cyclohexane	5.67	56	3377	0.85	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14145	3.64	ug/l #	49
37) Ethyl Acetate	4.70	43	6294	1.43	ug/l #	67
38) Carbon Tetrachloride	5.67	117	19751	5.21	ug/l #	16
41) Methacrylonitrile	5.17	41	1016	0.42	ug/l #	48
43) Isopropyl Acetate	6.46	43	158554	27.03	ug/l	99
48) Methyl methacrylate	7.68	41	5670	1.95	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	2389	0.58	ug/l #	42
54) cis-1,3-Dichloropropene	8.62	75	1127	0.29	ug/l #	68
59) 2-Hexanone	9.44	43	1457	0.46	ug/l #	22
76) 1,2,3-Trichloropropane	11.14	75	71027	19.49	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	71027	62.13	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004636.D

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Instrument :

MSVOA_X

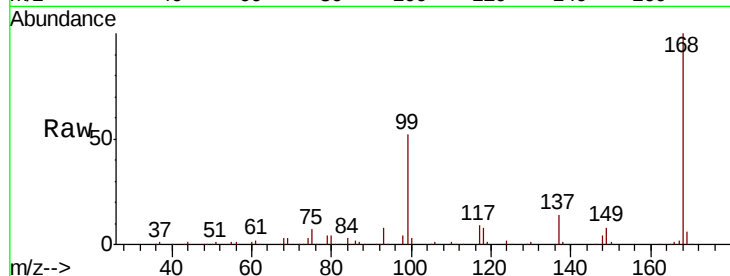
ClientSampleId :

Tot Ion:168 Resp: 213313

Ion Ratio Lower Upper

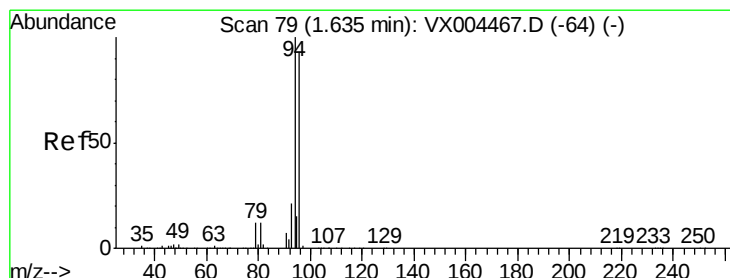
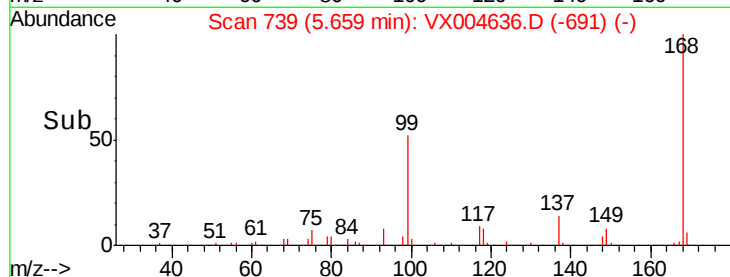
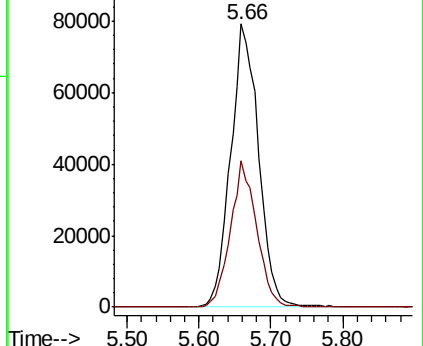
168 100

99 51.6 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: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004636.D

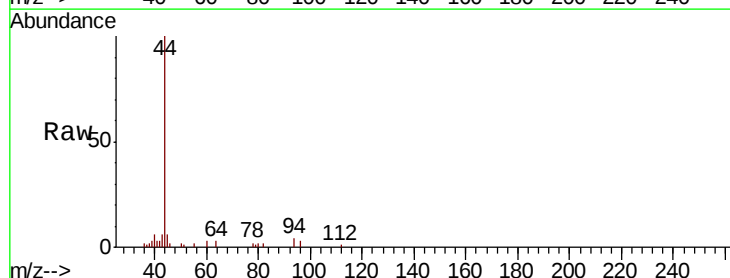
Acq: 17 Sep 2018 23:06

Tgt Ion: 94 Resp: 192

Ion Ratio Lower Upper

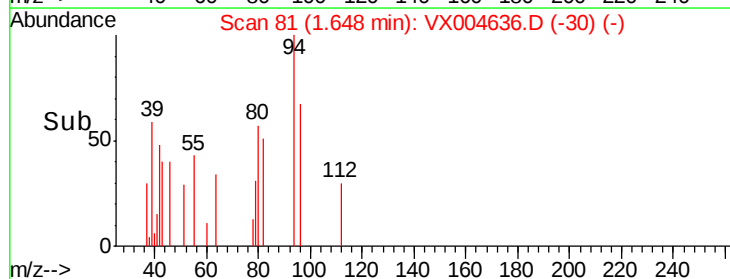
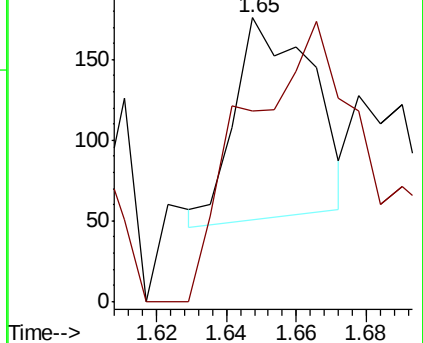
94 100

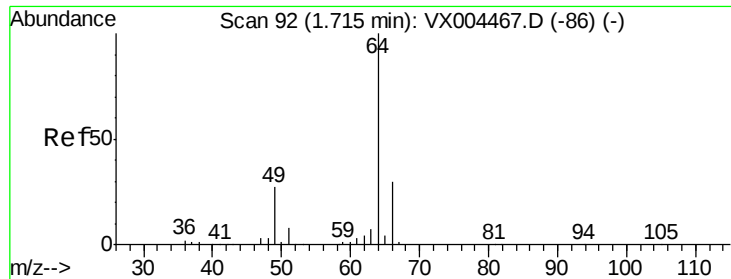
96 99.2 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

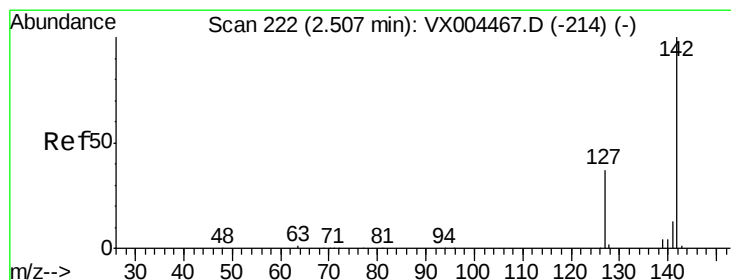
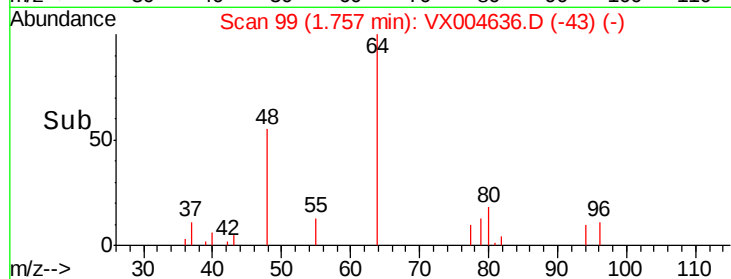
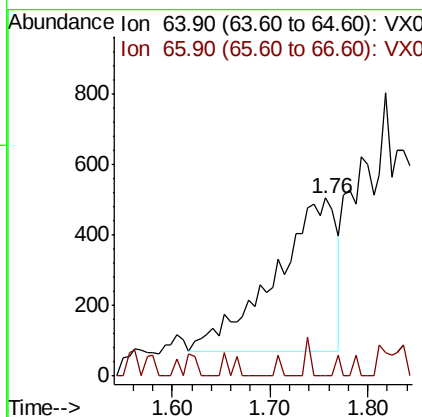
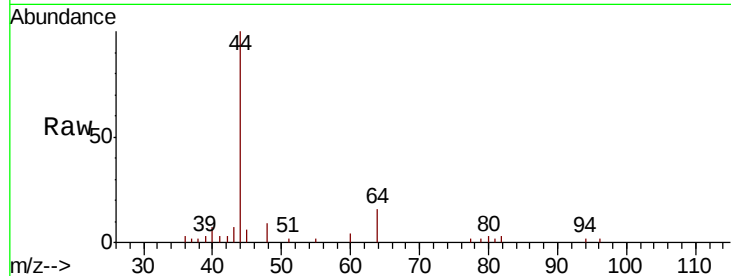




#6
 Chloroethane
 Concen: 1.04 ug/l
 RT: 1.76 min Scan# 99
 Delta R.T. 0.04 min
 Lab File: VX004636.D
 Acq: 17 Sep 2018 23:06

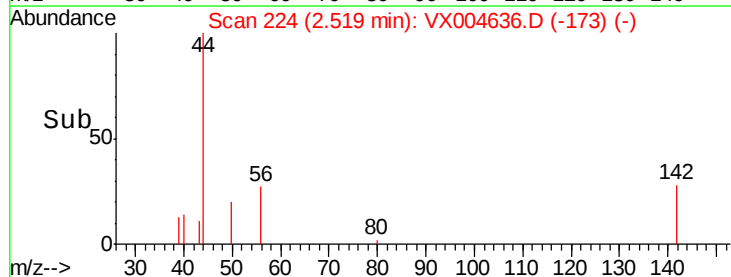
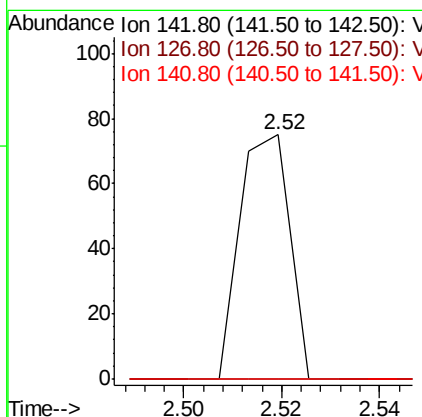
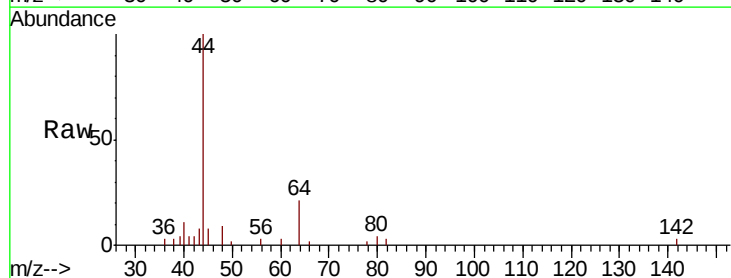
Instrument :
 MSVOA_X
 ClientSampleId :

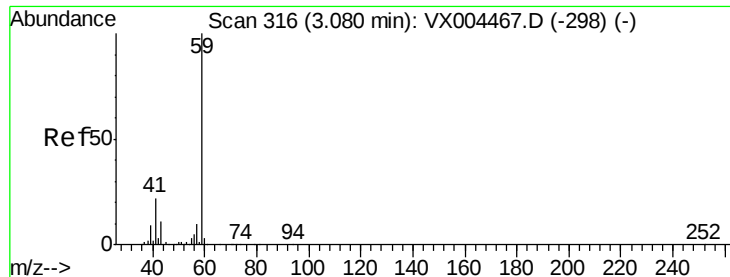
Tot Ion: 64 Resp: 1892
 Ion Ratio Lower Upper
 64 100
 66 0.0 24.6 36.8#



#10
 Methyl Iodide
 Concen: 4.27 ug/l
 RT: 2.52 min Scan# 224
 Delta R.T. 0.01 min
 Lab File: VX004636.D
 Acq: 17 Sep 2018 23:06

Tgt Ion: 142 Resp: 53
 Ion Ratio Lower Upper
 142 100
 127 0.0 33.8 50.6#
 141 0.0 11.4 17.0#

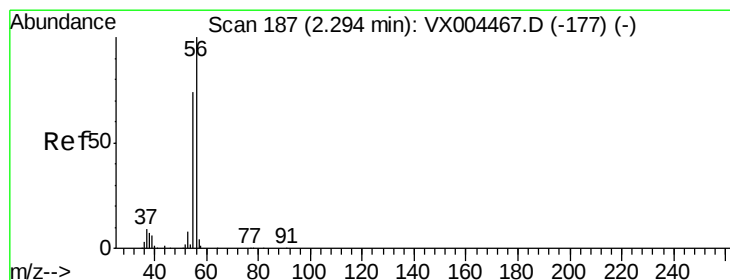
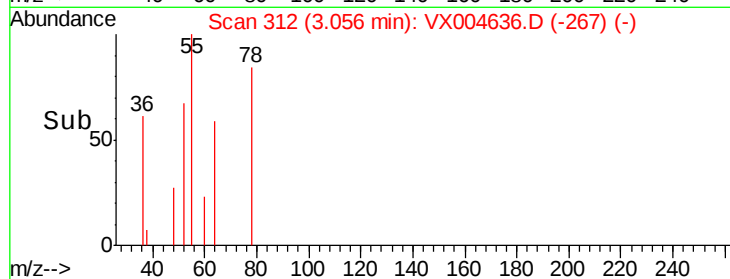
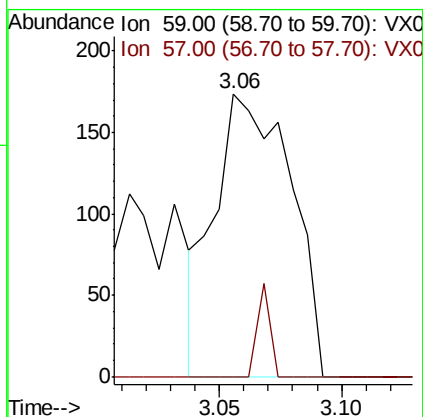
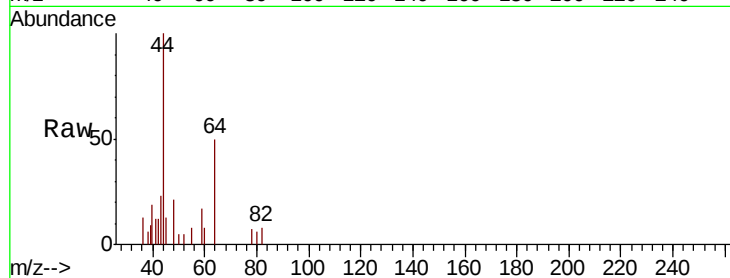




#11
Tert butvl alcohol
Concen: 0.57 ug/l
RT: 3.06 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

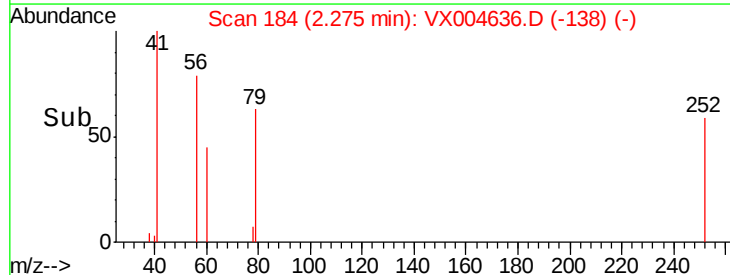
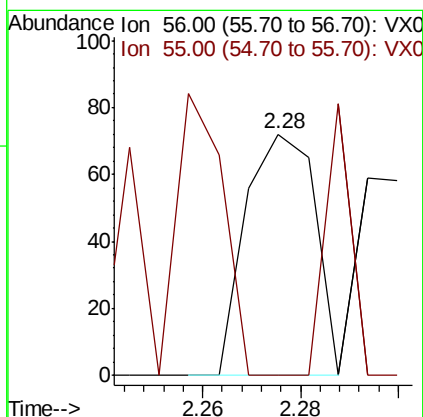
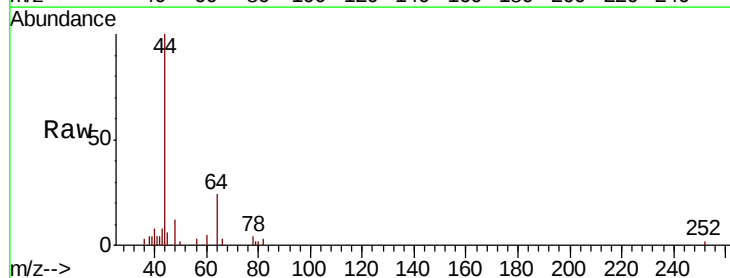
Instrument :
MSVOA_X
ClientSampleId :

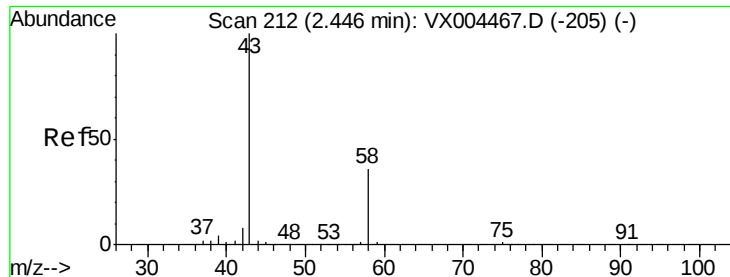
Tot Ion: 59 Resp: 377
Ion Ratio Lower Upper
59 100
57 5.6 8.2 12.4#



#13
Acrolein
Concen: 0.27 ug/l
RT: 2.28 min Scan# 184
Delta R.T. -0.02 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

Tgt Ion: 56 Resp: 71
Ion Ratio Lower Upper
56 100
55 42.3 54.7 82.1#

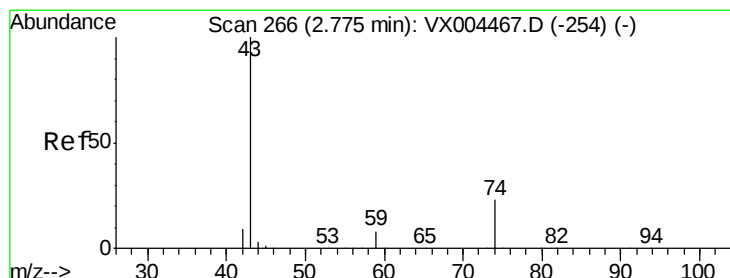
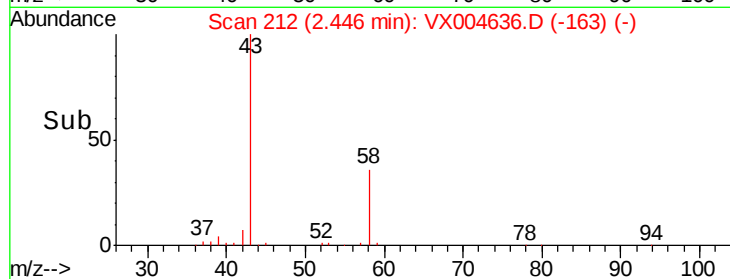
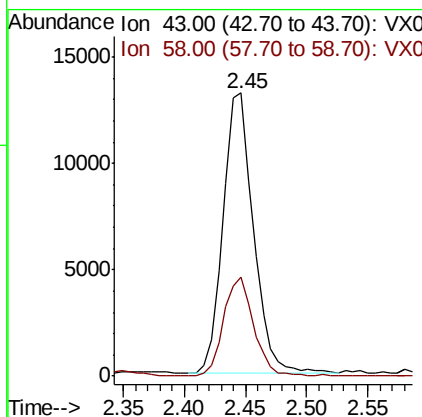
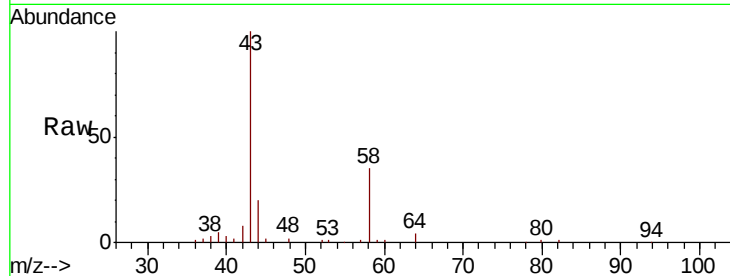




#16
Acetone
Concen: 16.75 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

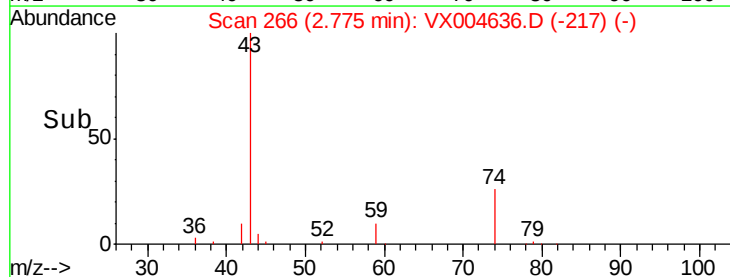
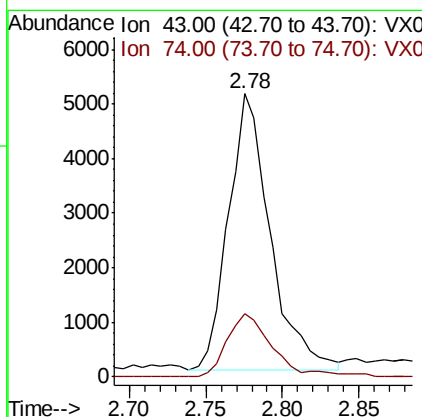
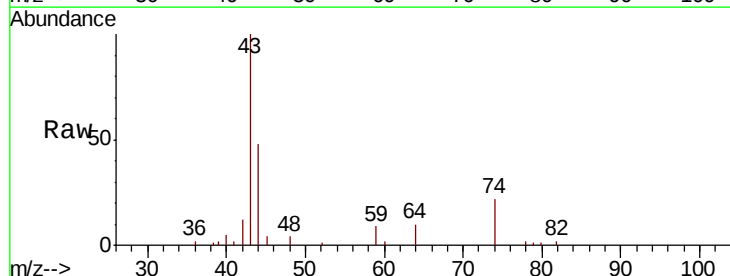
Instrument :
MSVOA_X
ClientSampled :

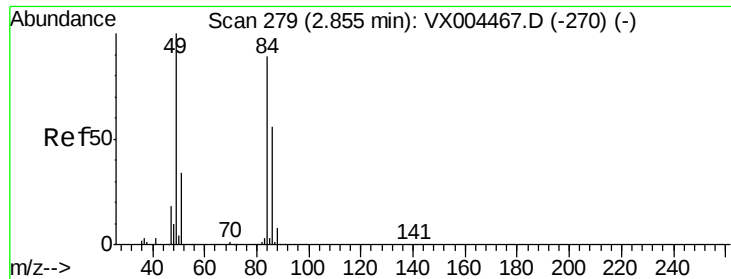
Tot Ion: 43 Resp: 22485
Ion Ratio Lower Upper
43 100
58 35.7 26.2 39.4



#18
Methyl Acetate
Concen: 2.54 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

Tgt Ion: 43 Resp: 9563
Ion Ratio Lower Upper
43 100
74 25.3 19.4 29.2

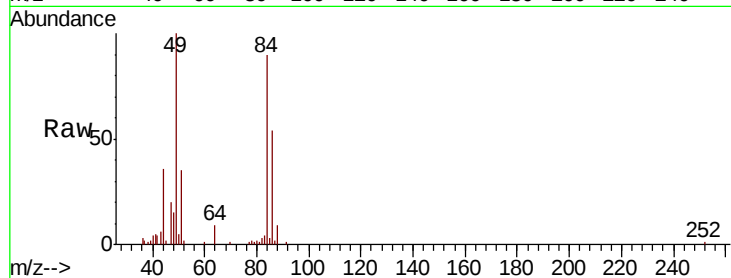




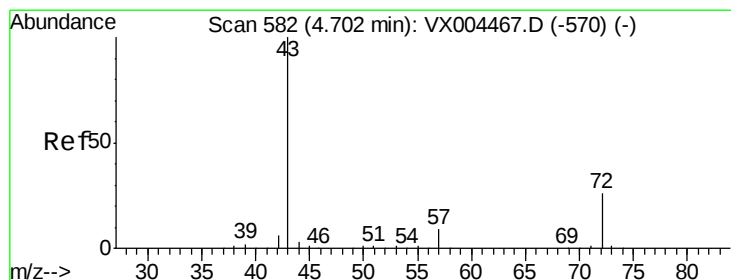
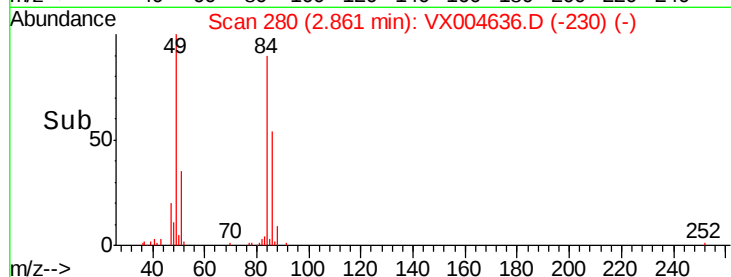
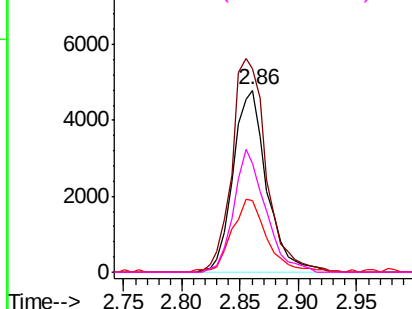
#20
Methvlene Chloride
Concen: 3.52 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 9688
Ion Ratio Lower Upper
84 100
49 111.3 101.2 151.8
51 39.0 29.5 44.3
86 59.6 52.3 78.5

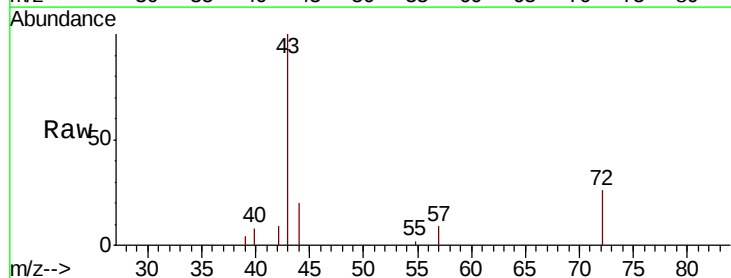


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

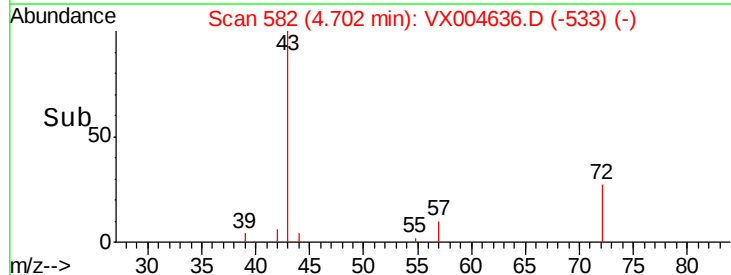
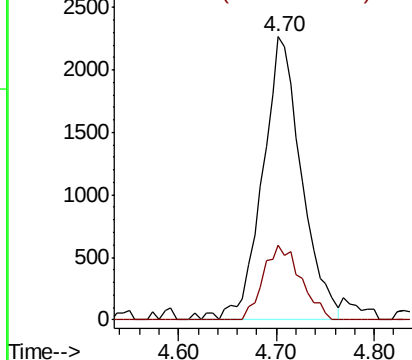


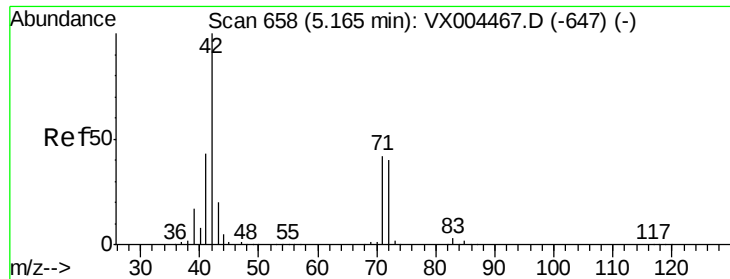
#25
2-Butanone
Concen: 2.95 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

Tgt Ion: 43 Resp: 6294
Ion Ratio Lower Upper
43 100
72 26.4 22.0 33.0



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

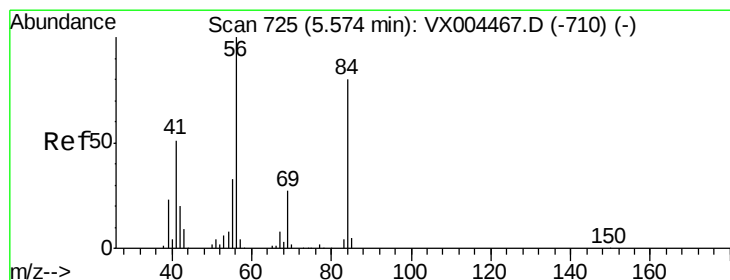
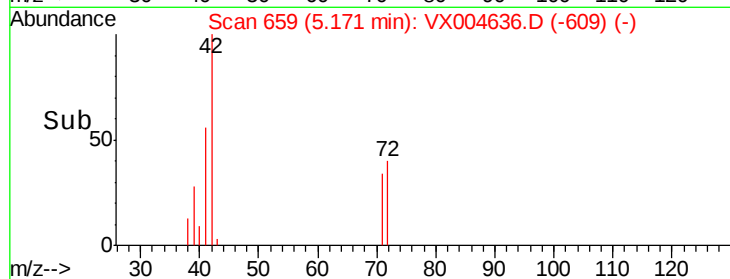
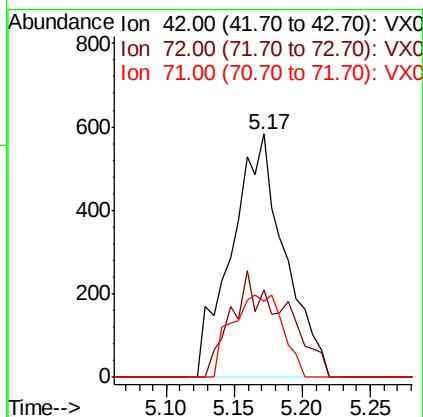
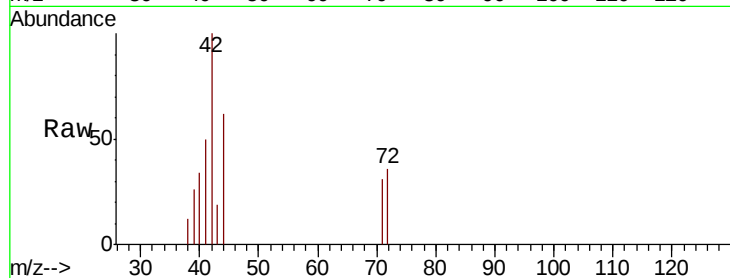




#29
Tetrahydrofuran
Concen: 1.23 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

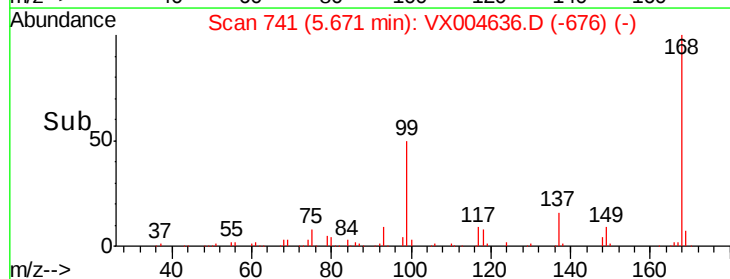
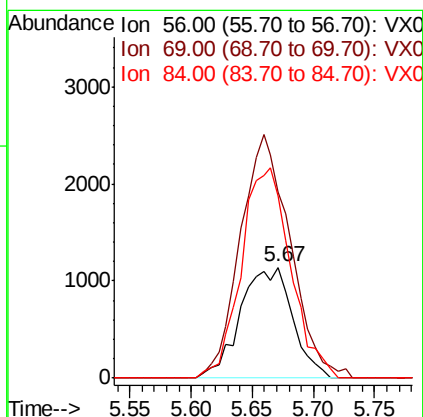
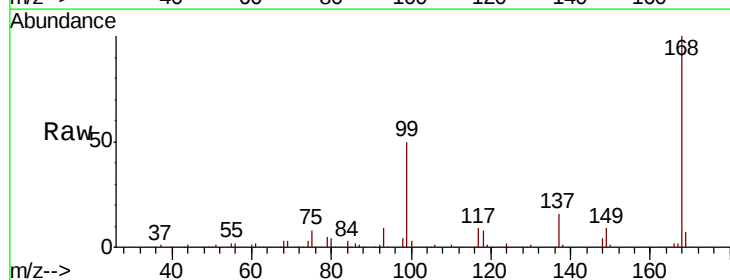
Instrument :
MSVOA_X
ClientSampleId :

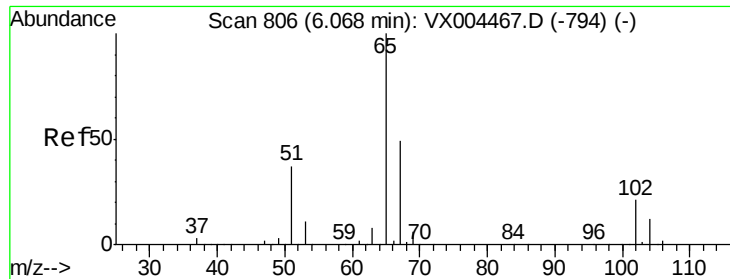
Tot Ion: 42 Resp: 1589
Ion Ratio Lower Upper
42 100
72 44.2 37.4 56.0
71 33.0 34.5 51.7#



#31
Cyclohexane
Concen: 0.85 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.10 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

Tgt Ion: 56 Resp: 3377
Ion Ratio Lower Upper
56 100
69 168.5 25.4 38.2#
84 164.3 71.4 107.2#

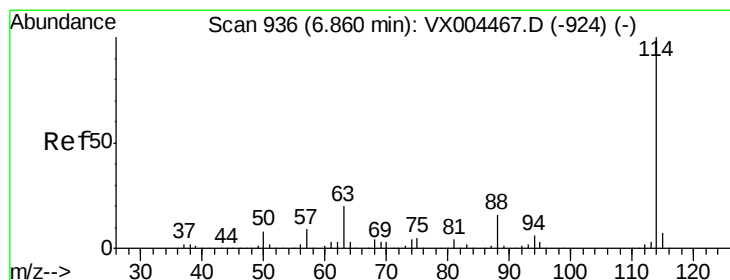
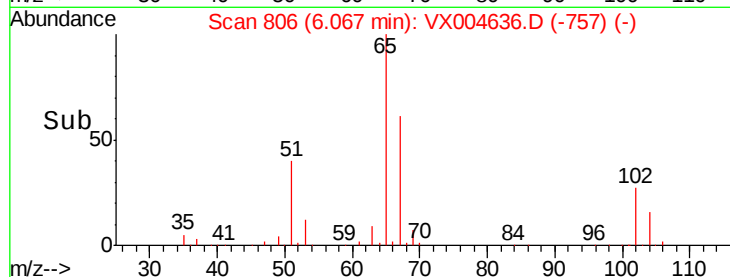
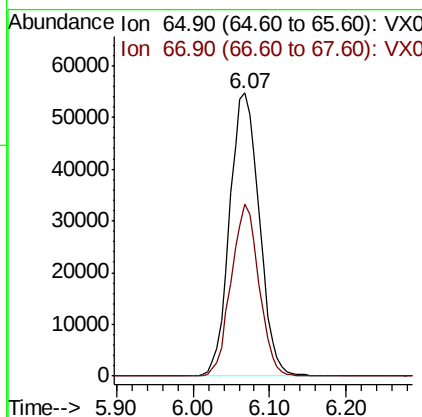
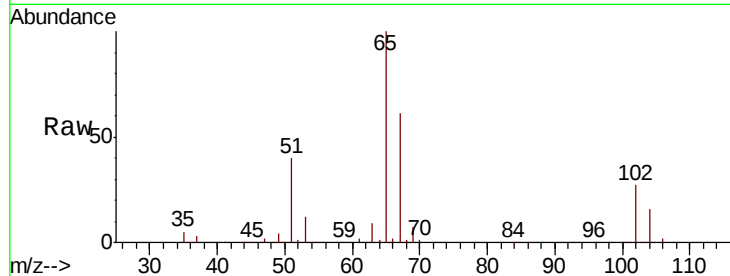




#33
 1,2-Dichloroethane-d4
 Concen: 53.32 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004636.D
 Acq: 17 Sep 2018 23:06

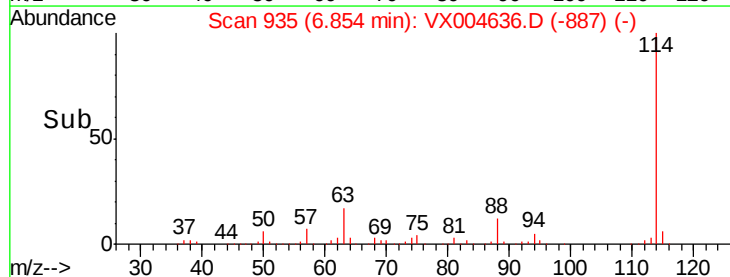
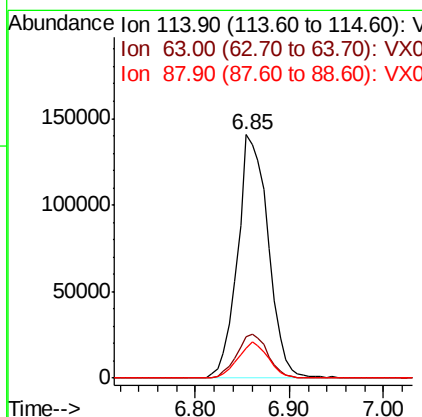
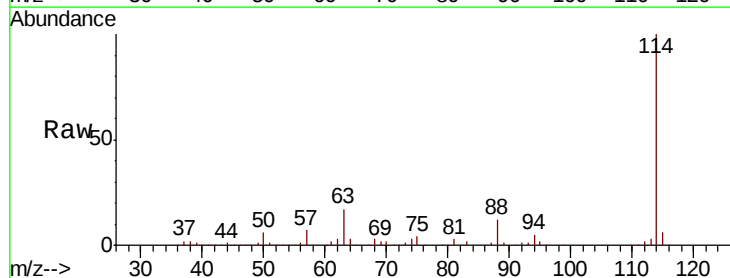
Instrument :
 MSVOA_X
 ClientSampleId :

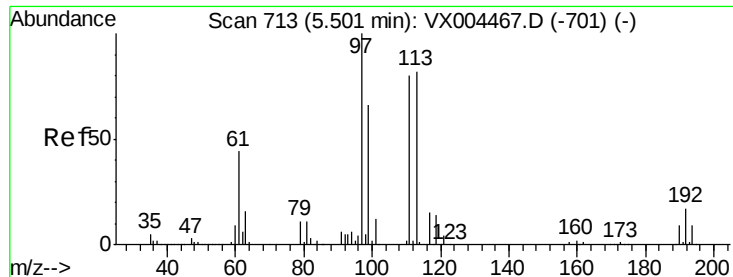
Tot Ion: 65 Resp: 146643
 Ion Ratio Lower Upper
 65 100
 67 57.1 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: VX004636.D
 Acq: 17 Sep 2018 23:06

Tgt Ion: 114 Resp: 319815
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 39.0
 88 12.4 0.0 30.4





#35

Dibromofluoromethane

Concen: 45.08 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX004636.D

Acq: 17 Sep 2018 23:06

Instrument :
MSVOA_X
ClientSampleId :

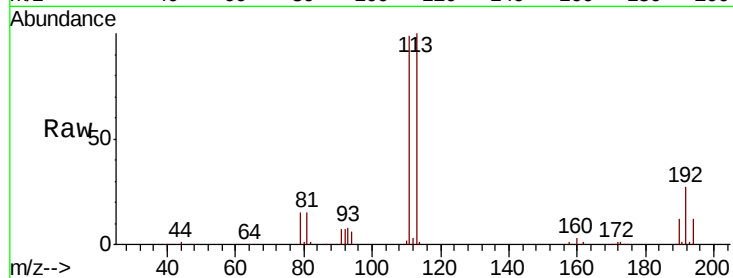
Tot Ion:113 Resp: 131934

Ion Ratio Lower Upper

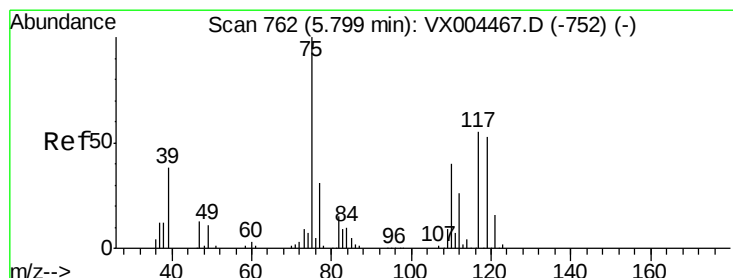
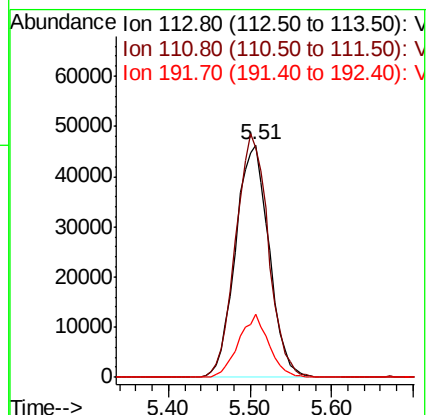
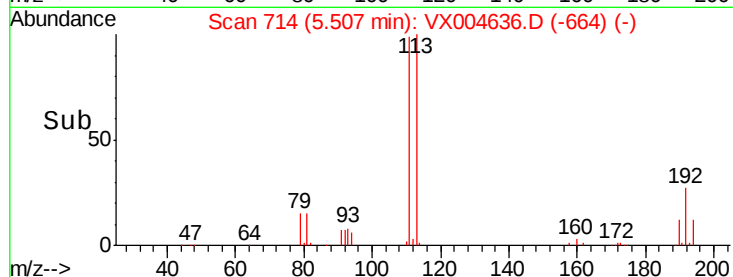
113 100

111 102.4 82.4 123.6

192 24.3 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: 3.64 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004636.D

Acq: 17 Sep 2018 23:06

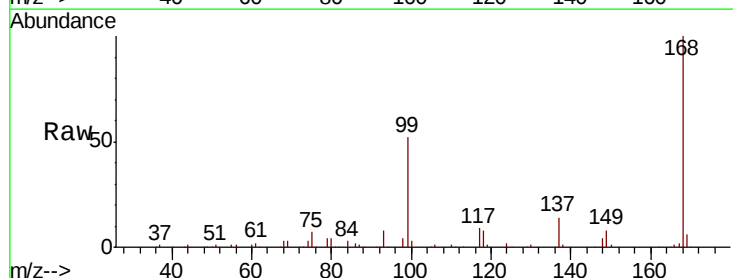
Tgt Ion: 75 Resp: 14145

Ion Ratio Lower Upper

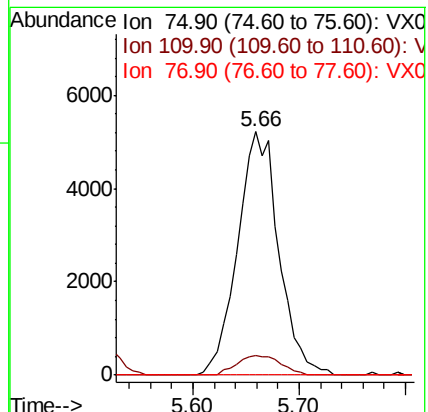
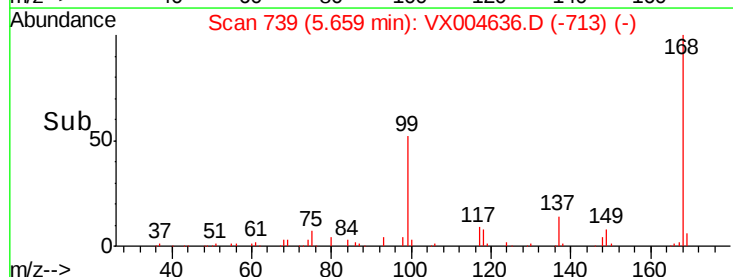
75 100

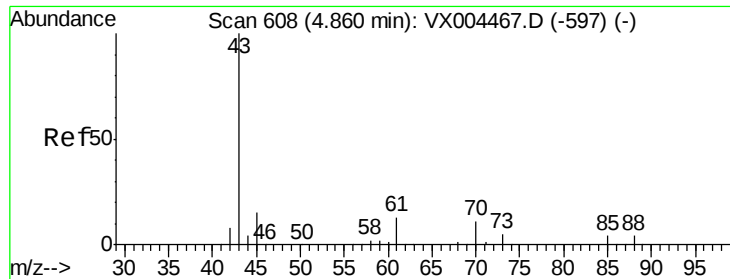
110 8.7 18.0 54.0#

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: 1.43 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.16 min

Lab File: VX004636.D

Acq: 17 Sep 2018 23:06

Instrument :

MSVOA_X

ClientSampleId :

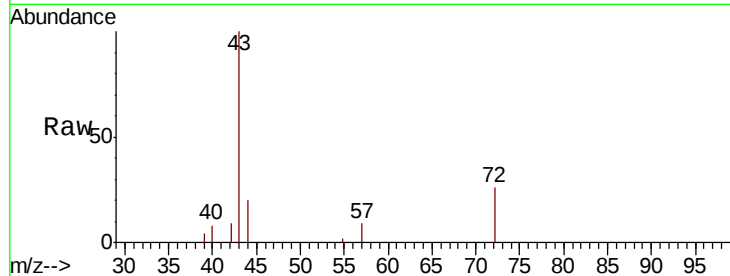
Tot Ion: 43 Resp: 6294

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

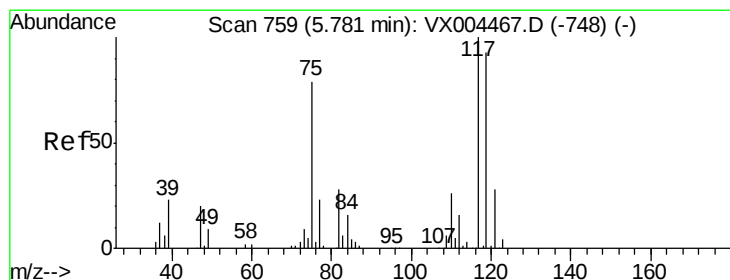
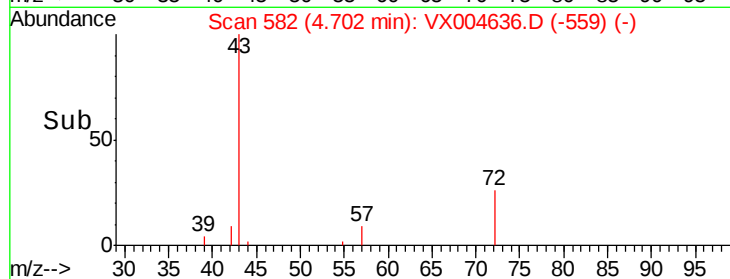
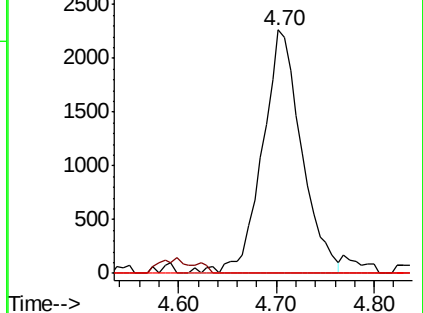
70 0.0 9.0 13.6#



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: 5.21 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004636.D

Acq: 17 Sep 2018 23:06

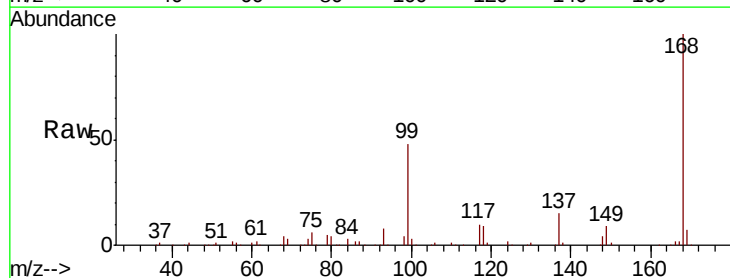
Tgt Ion: 117 Resp: 19751

Ion Ratio Lower Upper

117 100

119 6.9 78.8 118.2#

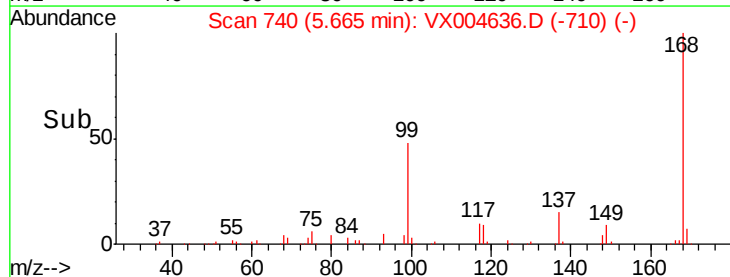
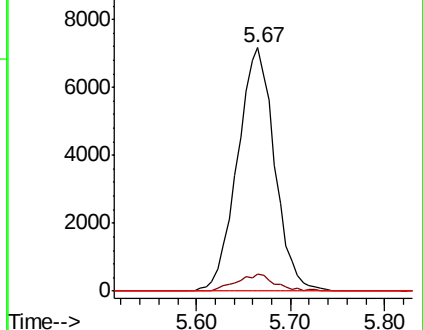
121 0.0 24.9 37.3#

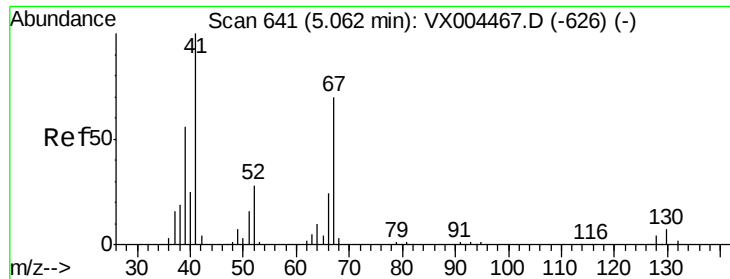


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

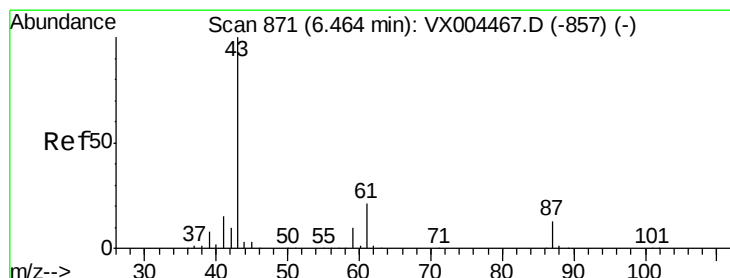
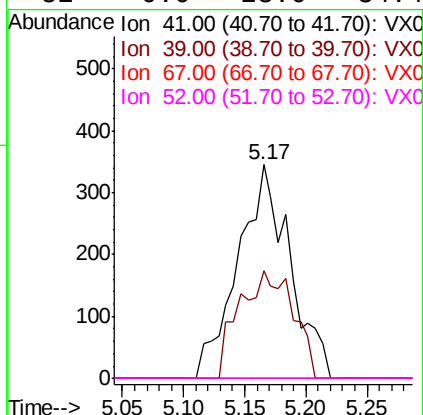
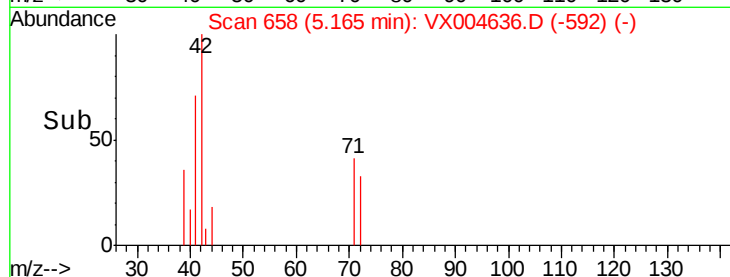
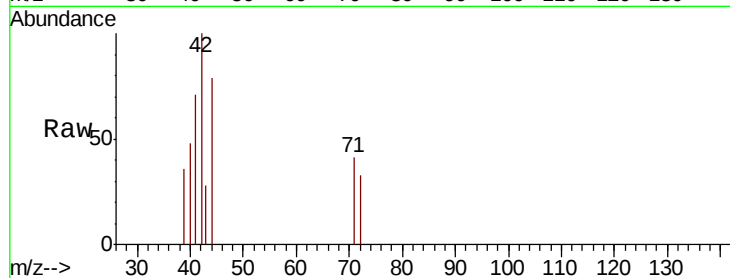




#41
Methacrylonitrile
Concen: 0.42 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.10 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

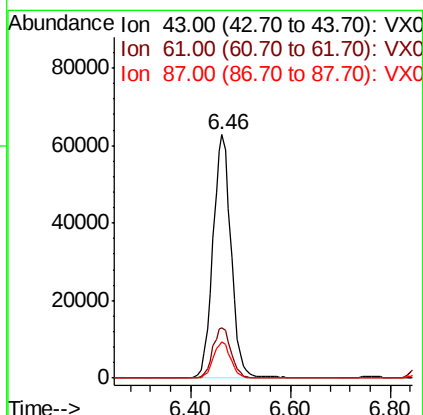
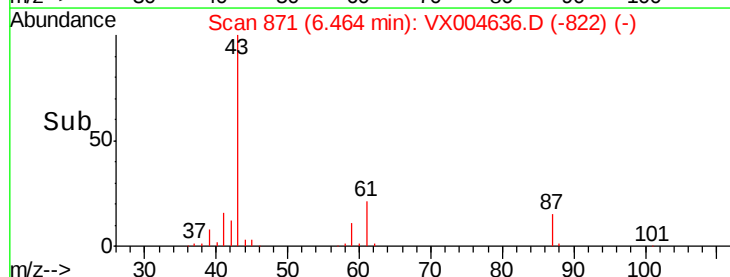
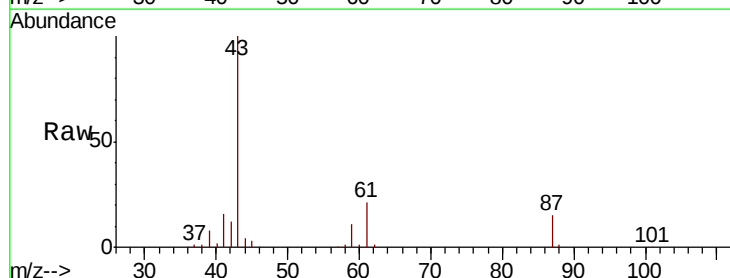
Instrument :
MSVOA_X
ClientSampled :

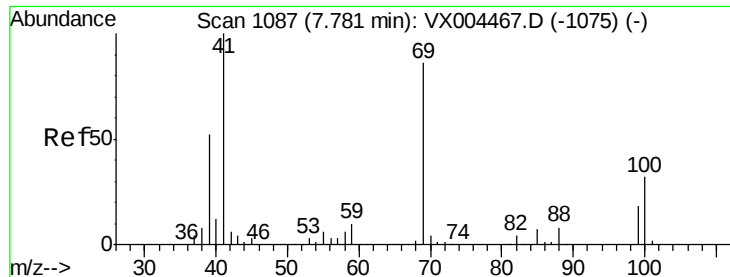
Tot Ion:	41	Resp:	1016
Ion	Ratio	Lower	Upper
41	100		
39	52.6	42.4	63.6
67	0.0	59.2	88.8#
52	0.0	23.0	34.4#



#43
Isopropyl Acetate
Concen: 27.03 ug/l
RT: 6.46 min Scan# 871
Delta R.T. -0.00 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

Tgt Ion:	43	Resp:	158554
Ion	Ratio	Lower	Upper
43	100		
61	20.8	17.0	25.4
87	14.3	11.4	17.2





#48

Methvl methacrylate

Concen: 1.95 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.10 min

Lab File: VX004636.D

Acq: 17 Sep 2018 23:06

Instrument :

MSVOA_X

ClientSampleId :

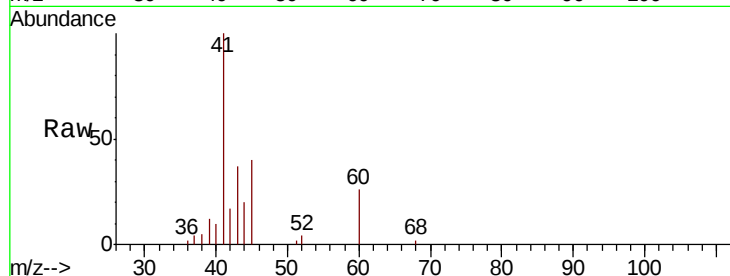
Tot Ion: 41 Resp: 5670

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

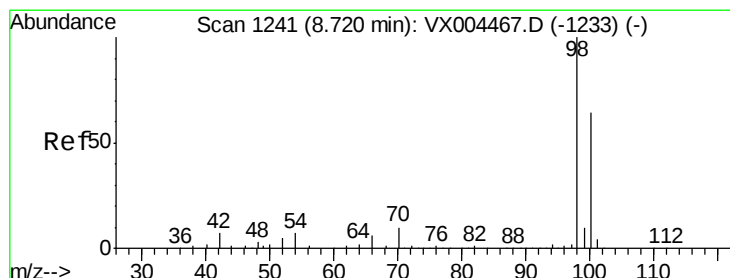
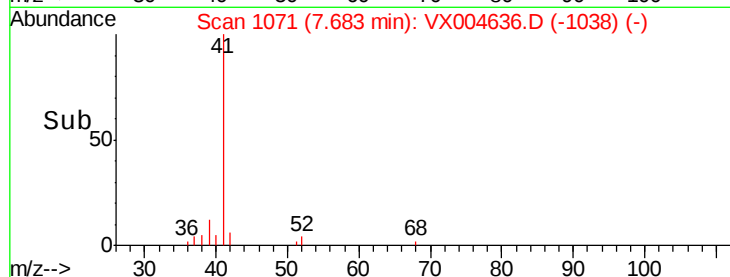
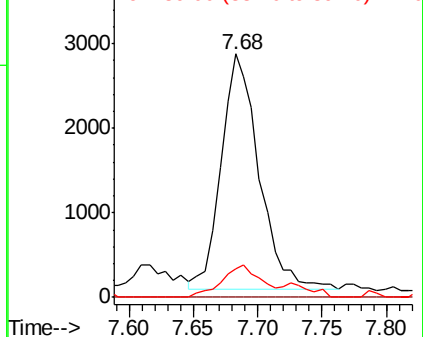
39 14.1 42.7 64.1#



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: 44.84 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004636.D

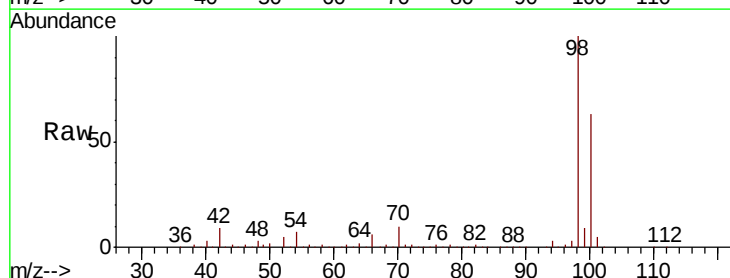
Acq: 17 Sep 2018 23:06

Tgt Ion: 98 Resp: 440034

Ion Ratio Lower Upper

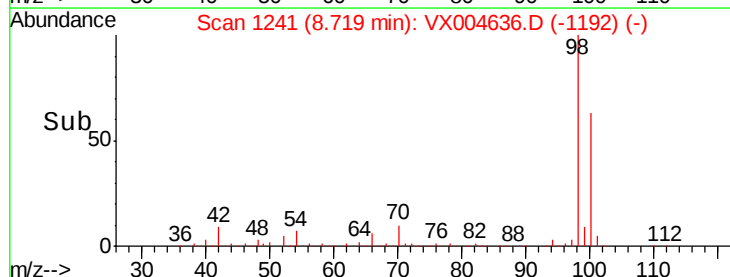
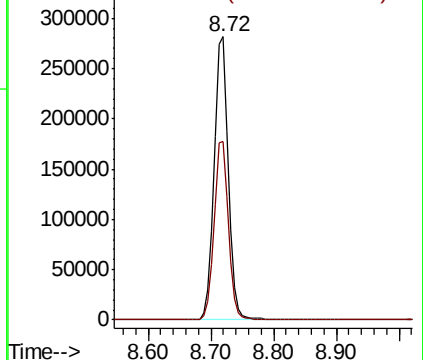
98 100

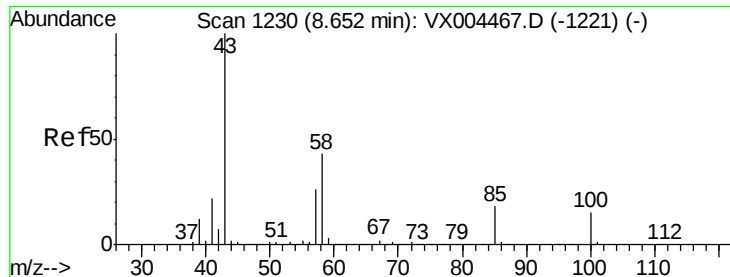
100 63.5 52.9 79.3



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# 1224

Delta R.T. -0.04 min

Lab File: VX004636.D

Acq: 17 Sep 2018 23:06

Instrument :

MSVOA_X

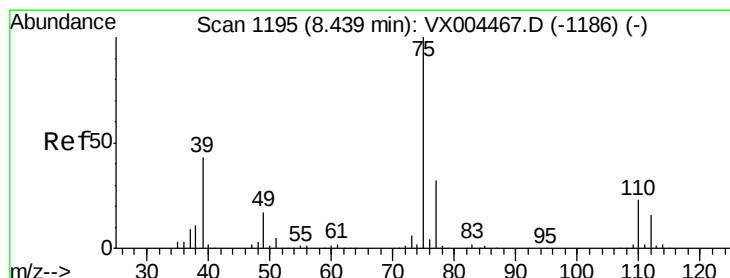
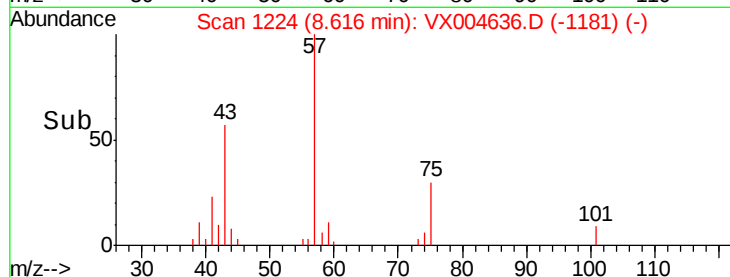
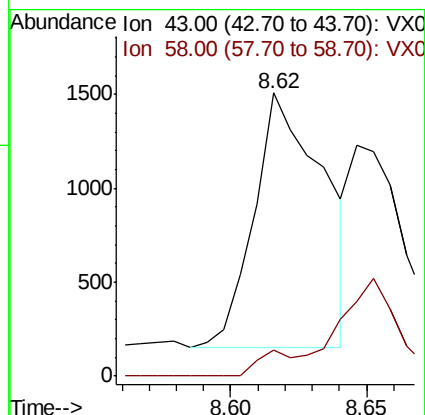
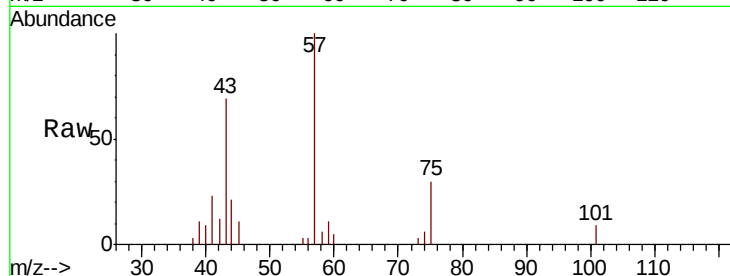
ClientSampleId :

Tot Ion: 43 Resp: 2389

Ion Ratio Lower Upper

43 100

58 4.9 33.1 49.7#



#54

cis-1,3-Dichloropropene

Concen: 0.29 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX004636.D

Acq: 17 Sep 2018 23:06

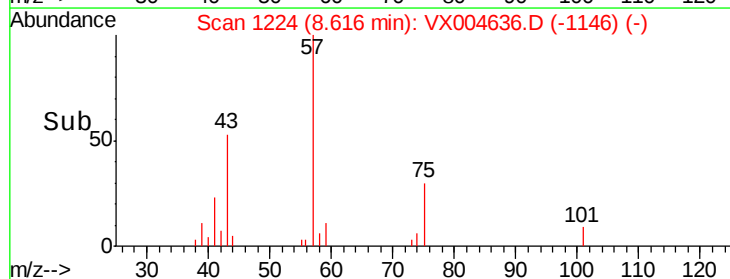
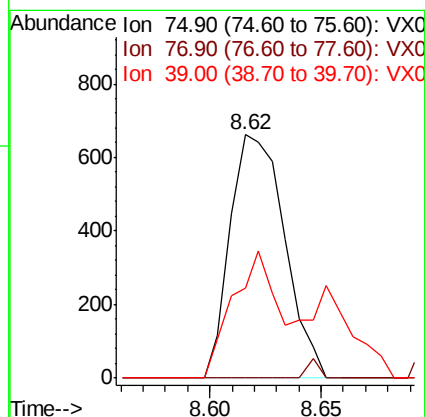
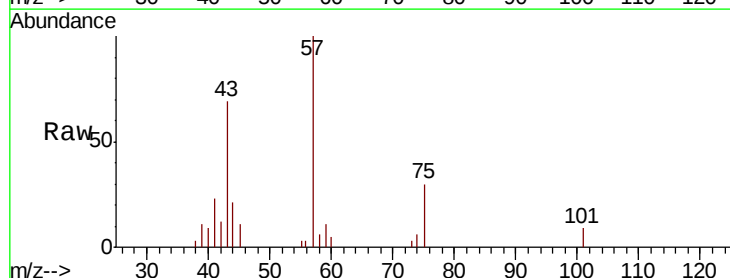
Tgt Ion: 75 Resp: 1127

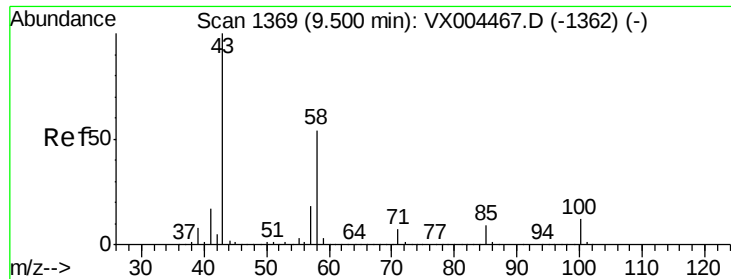
Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

39 36.7 36.4 54.6

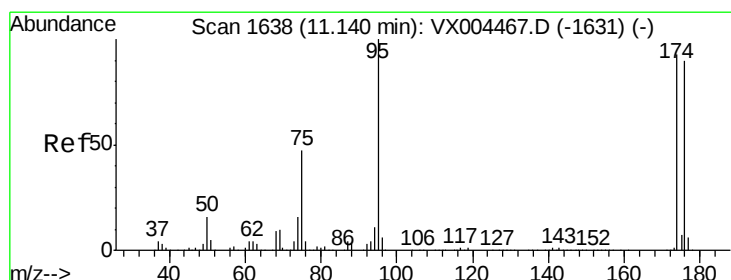
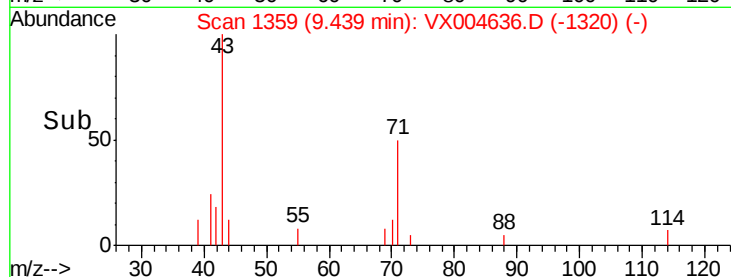
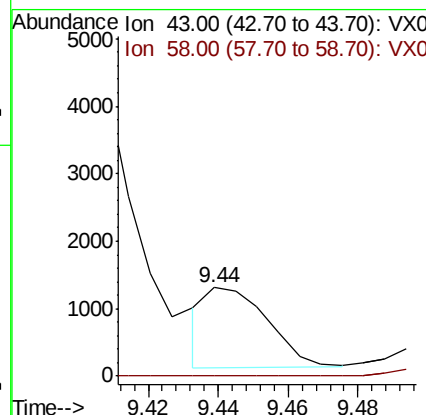
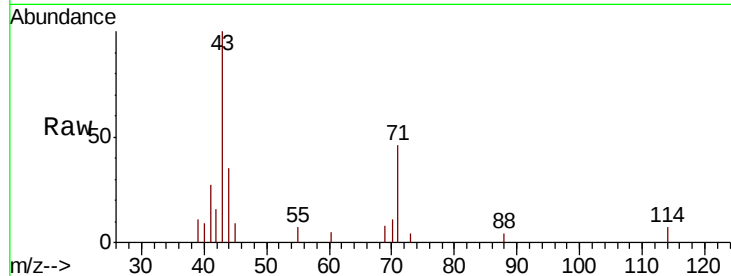




#59
2-Hexanone
Concen: 0.46 ug/l
RT: 9.44 min Scan# 1359
Delta R.T. -0.06 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

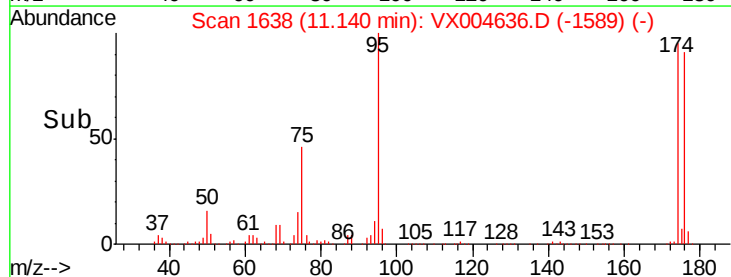
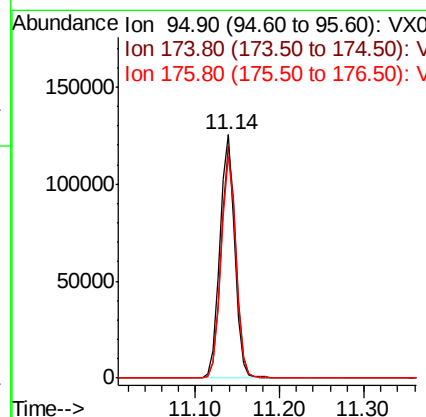
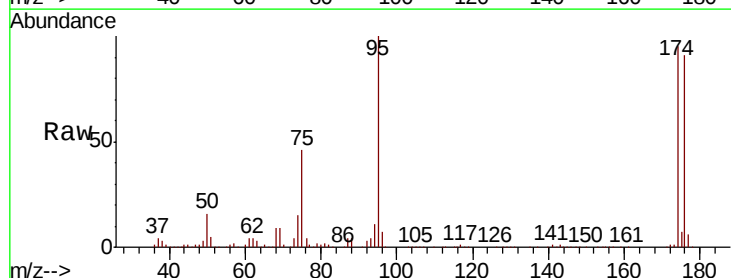
Instrument :
MSVOA_X
ClientSampled :

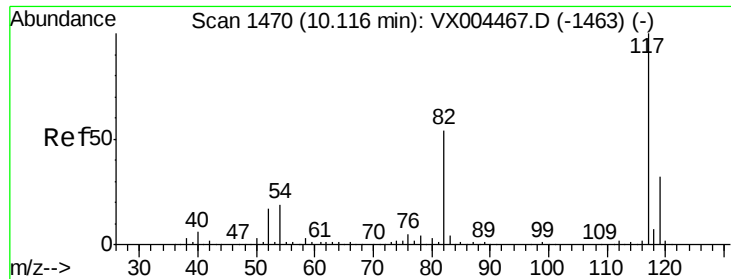
Tot Ion: 43 Resp: 1457
Ion Ratio Lower Upper
43 100
58 0.0 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 43.92 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

Tgt Ion: 95 Resp: 153858
Ion Ratio Lower Upper
95 100
174 95.7 0.0 185.2
176 91.6 0.0 178.6

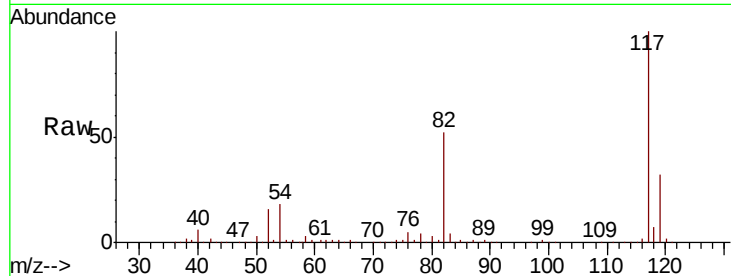




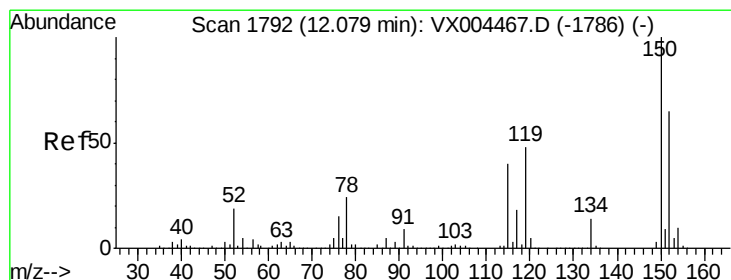
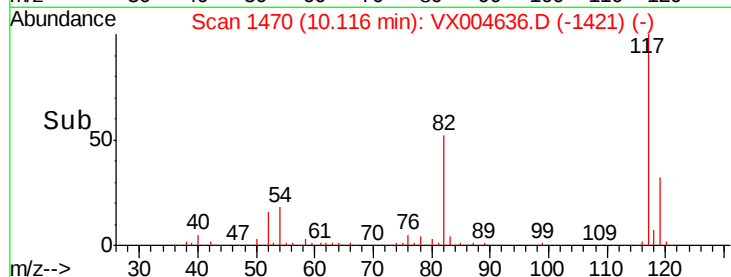
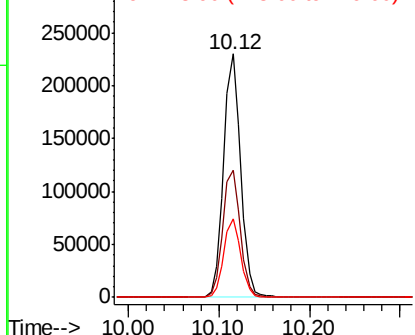
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 302056
Ion Ratio Lower Upper
117 100
82 52.2 47.8 71.6
119 32.4 29.3 43.9

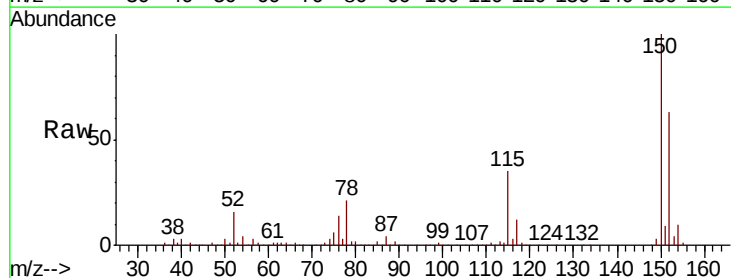


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

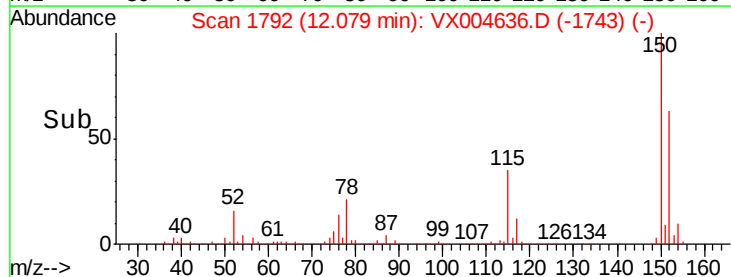
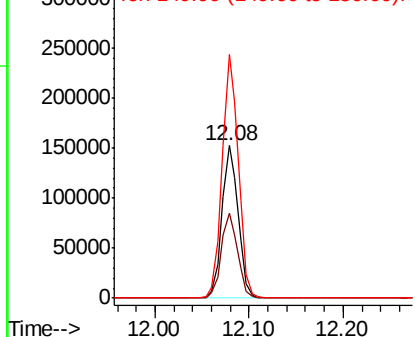


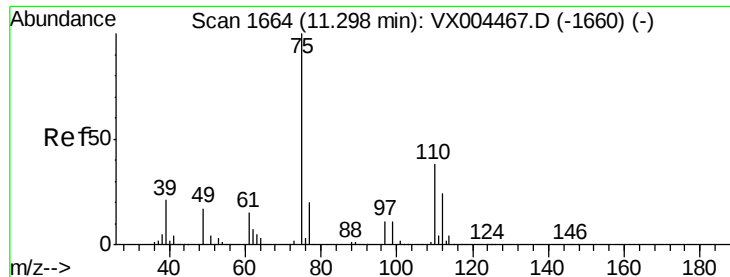
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004636.D
Acq: 17 Sep 2018 23:06

Tgt Ion:152 Resp: 181114
Ion Ratio Lower Upper
152 100
115 56.1 39.0 117.0
150 159.7 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: 19.49 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004636.D

Acq: 17 Sep 2018 23:06

Instrument :

MSVOA_X

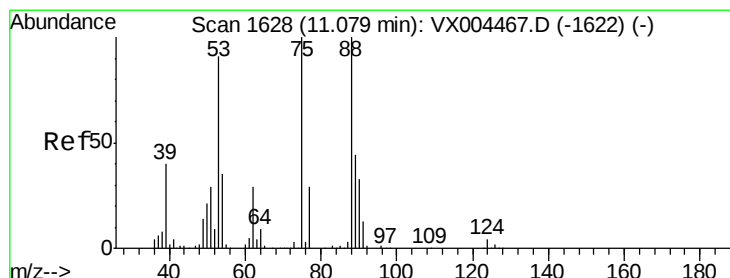
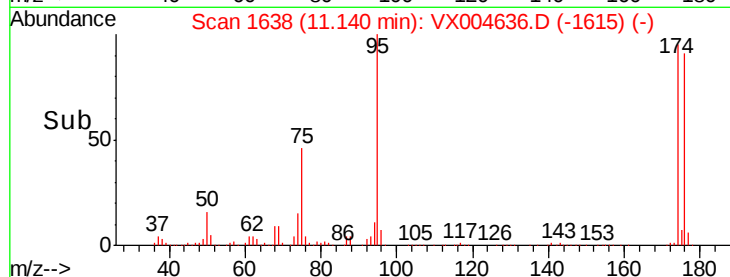
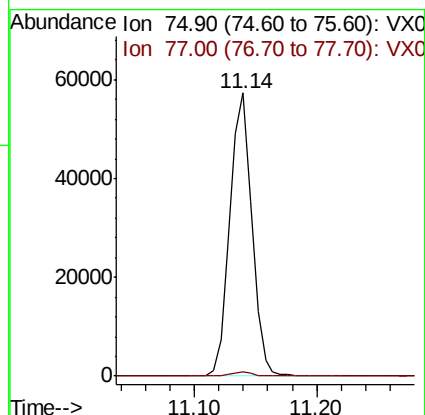
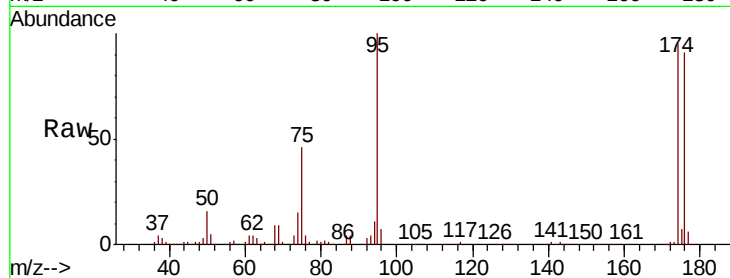
ClientSampleId :

Tot Ion: 75 Resp: 71027

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.13 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004636.D

Acq: 17 Sep 2018 23:06

Tgt Ion: 75 Resp: 71027

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

