

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091718\
 Data File : VX004632.D
 Acq On : 17 Sep 2018 21:19
 Operator : JC/MD
 Sample : PB112894ZHE#07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 18 00:56:48 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	220145	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	324689	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	310071	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190797	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	153821	54.19	ug/l	0.00
Spiked Amount			Recovery	=	108.38%	
35) Dibromofluoromethane	5.50	113	135933	45.75	ug/l	0.00
Spiked Amount			Recovery	=	91.50%	
50) Toluene-d8	8.72	98	449387	45.10	ug/l	0.00
Spiked Amount			Recovery	=	90.20%	
62) 4-Bromofluorobenzene	11.14	95	155899	43.83	ug/l	0.00
Spiked Amount			Recovery	=	87.66%	

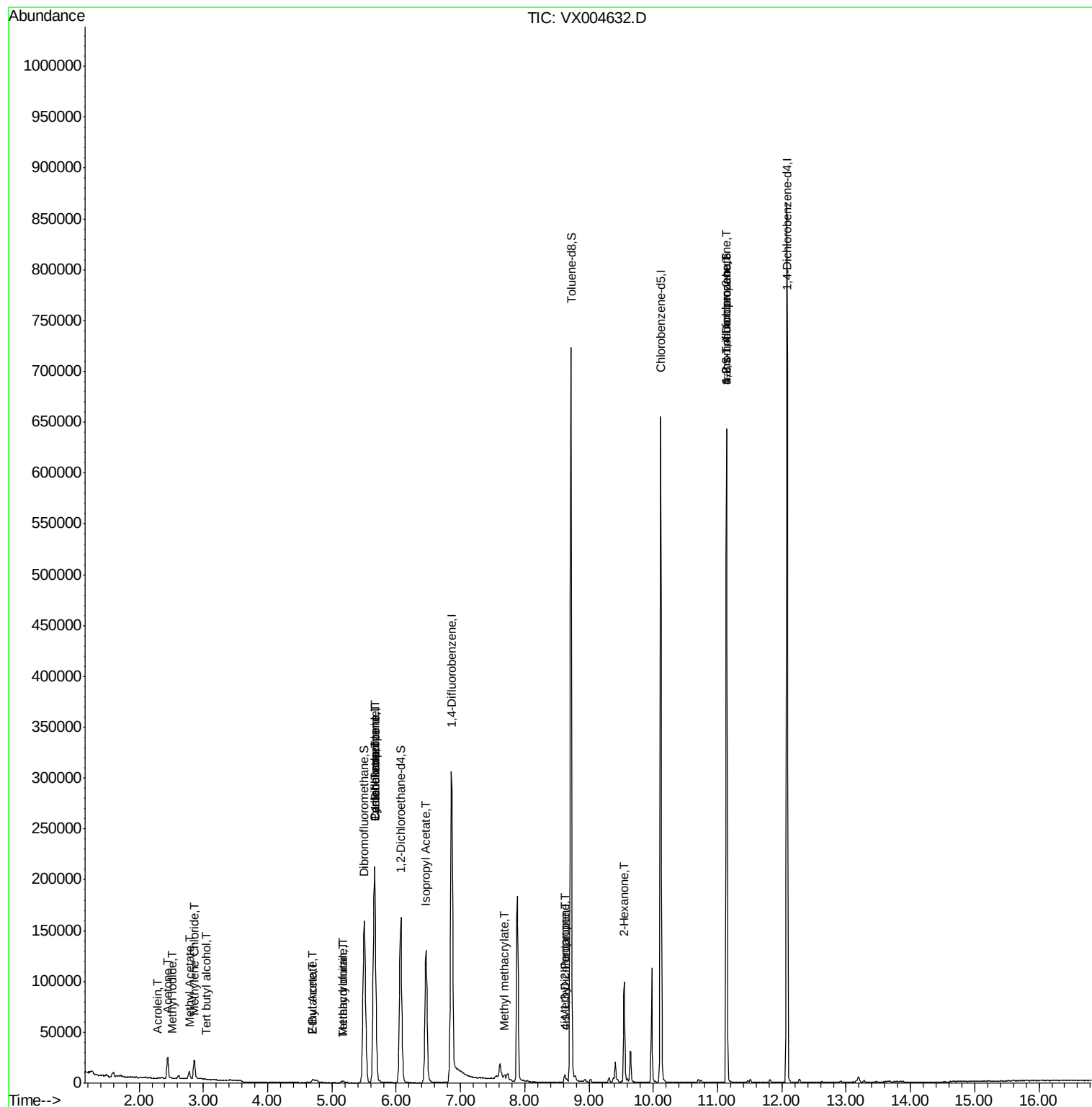
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.67	94	572	Below Cal	#	78
10) Methyl Iodide	2.52	142	159	4.31	ug/l #	41
11) Tert butyl alcohol	3.05	59	482	0.71	ug/l #	72
13) Acrolein	2.29	56	67	0.25	ug/l #	1
16) Acetone	2.45	43	22379	16.15	ug/l	99
18) Methyl Acetate	2.78	43	8939	2.30	ug/l	99
20) Methylene Chloride	2.85	84	9228	3.25	ug/l	97
25) 2-Butanone	4.70	43	6719	3.05	ug/l	99
29) Tetrahydrofuran	5.18	42	1641	1.23	ug/l #	87
31) Cyclohexane	5.66	56	3558	0.87	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14571	3.70	ug/l #	48
37) Ethyl Acetate	4.70	43	6719	1.50	ug/l #	67
38) Carbon Tetrachloride	5.66	117	18611	4.83	ug/l #	16
41) Methacrylonitrile	5.17	41	944	0.38	ug/l #	47
43) Isopropyl Acetate	6.46	43	166373	27.94	ug/l	96
48) Methyl methacrylate	7.68	41	5967	2.02	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	2023	0.48	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1231	0.31	ug/l #	68
59) 2-Hexanone	9.55	43	10044	3.12	ug/l #	56
76) 1,2,3-Trichloropropane	11.14	75	74016	19.28	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	74016	61.46	ug/l #	10

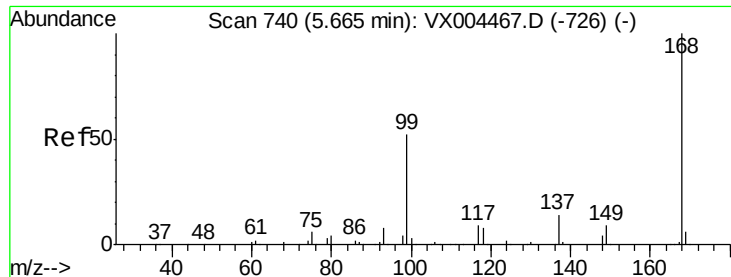
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004632.D

Acq: 17 Sep 2018 21:19

Instrument :

MSVOA_X

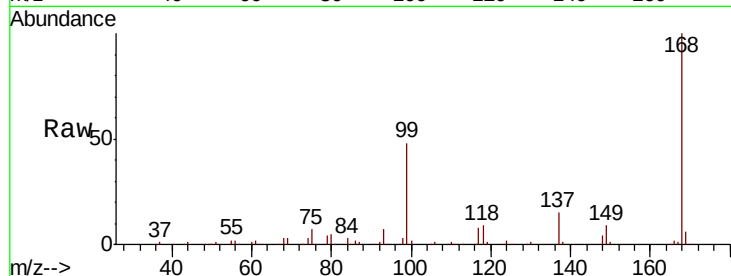
ClientSampleId :

Tot Ion:168 Resp: 220145

Ion Ratio Lower Upper

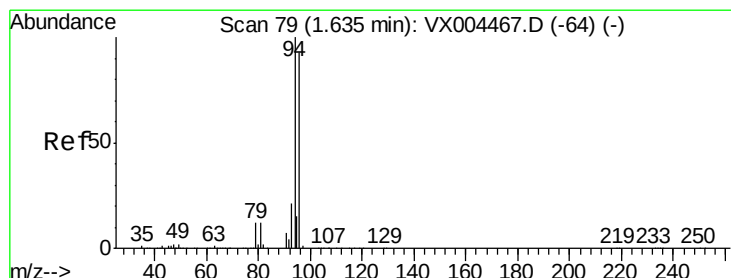
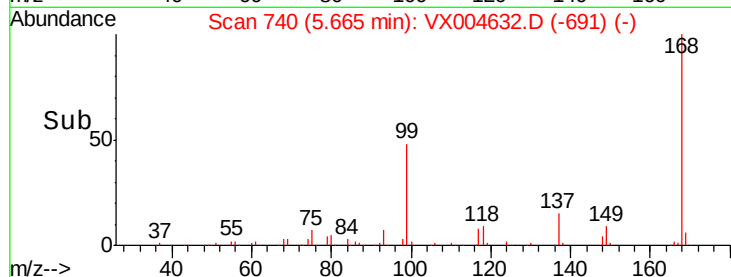
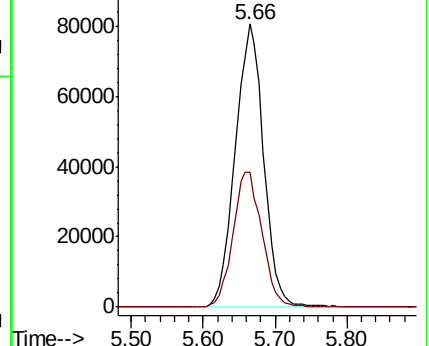
168 100

99 47.8 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: 1.67 min Scan# 84

Delta R.T. 0.03 min

Lab File: VX004632.D

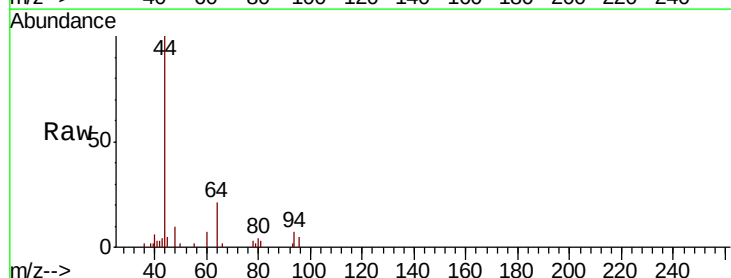
Acq: 17 Sep 2018 21:19

Tgt Ion: 94 Resp: 572

Ion Ratio Lower Upper

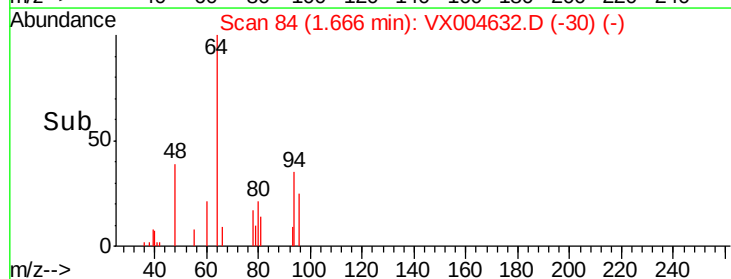
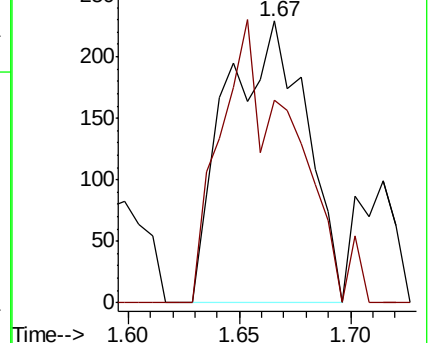
94 100

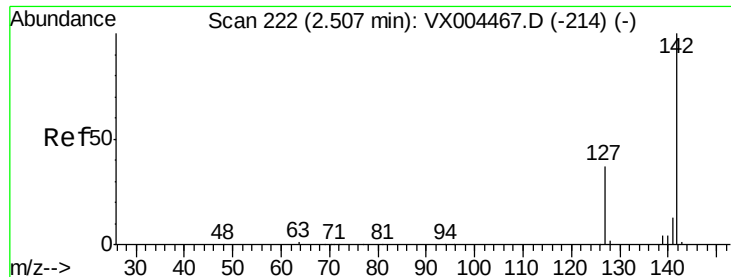
96 72.1 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

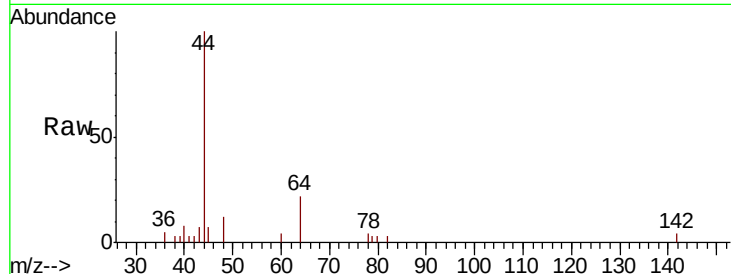




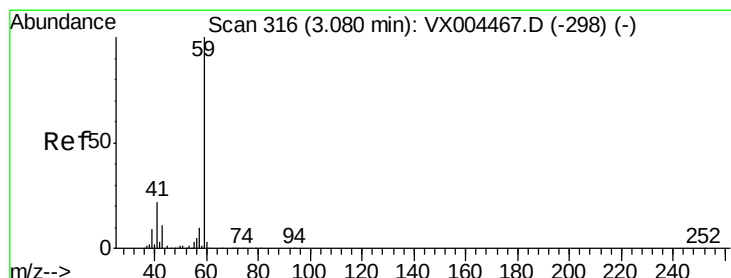
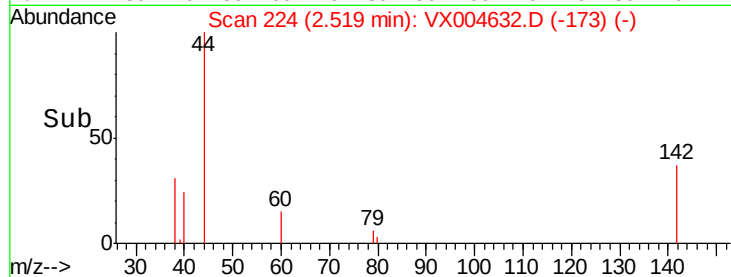
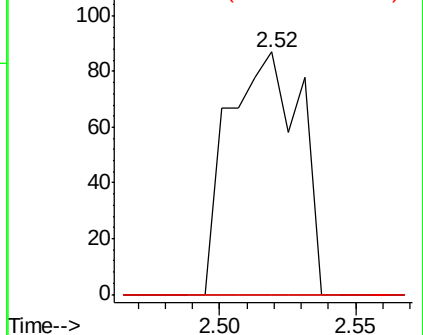
#10
Methvl Iodide
Concen: 4.31 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004632.D
Acq: 17 Sep 2018 21:19

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 159
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.6#
141 0.0 11.4 17.0#

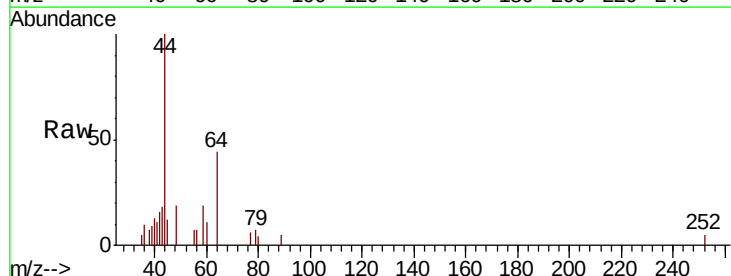


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

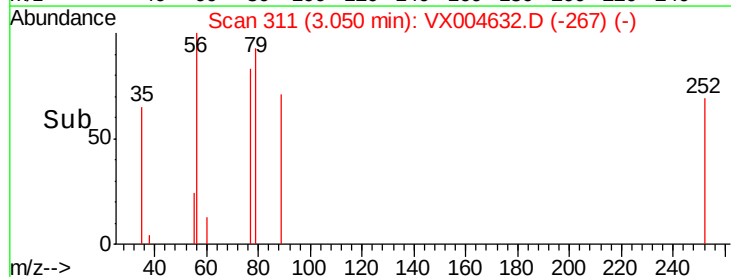
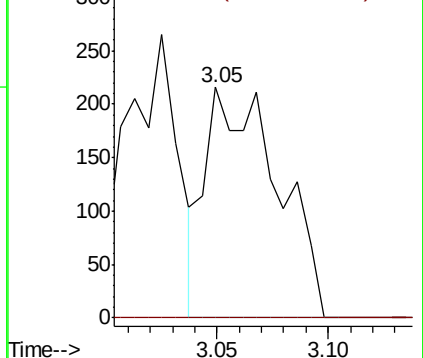


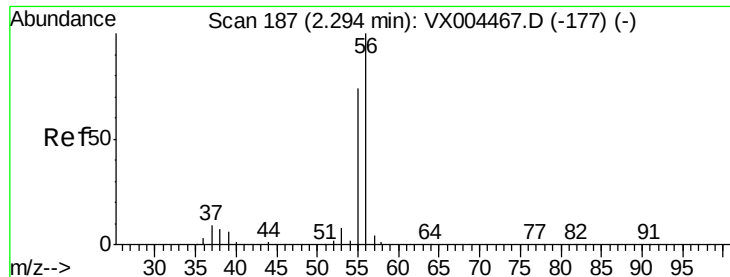
#11
Tert butyl alcohol
Concen: 0.71 ug/l
RT: 3.05 min Scan# 311
Delta R.T. -0.03 min
Lab File: VX004632.D
Acq: 17 Sep 2018 21:19

Tgt Ion: 59 Resp: 482
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.25 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX004632.D

Acq: 17 Sep 2018 21:19

Instrument :

MSVOA_X

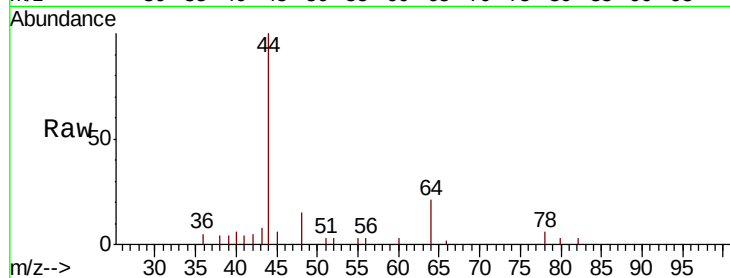
ClientSampleId :

Tot Ion: 56 Resp: 67

Ion Ratio Lower Upper

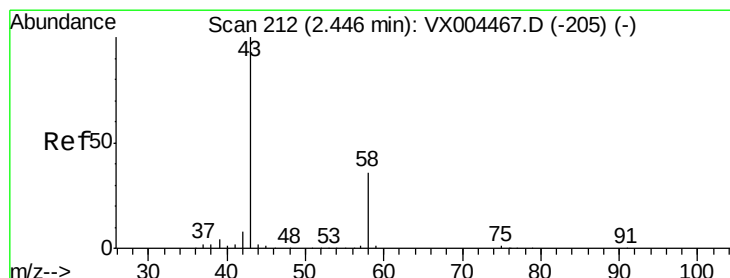
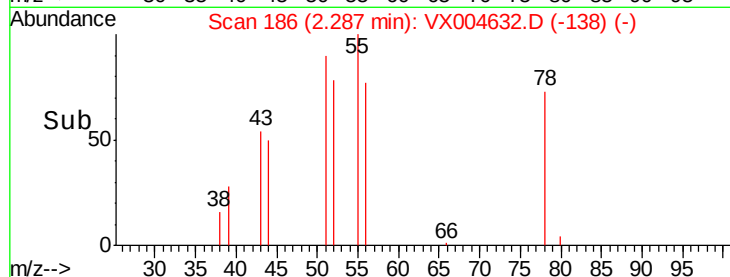
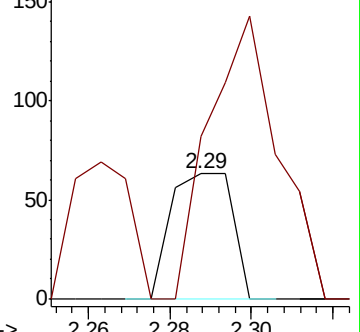
56 100

55 252.2 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 16.15 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004632.D

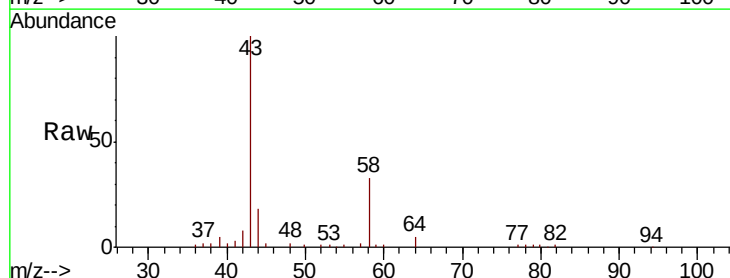
Acq: 17 Sep 2018 21:19

Tgt Ion: 43 Resp: 22379

Ion Ratio Lower Upper

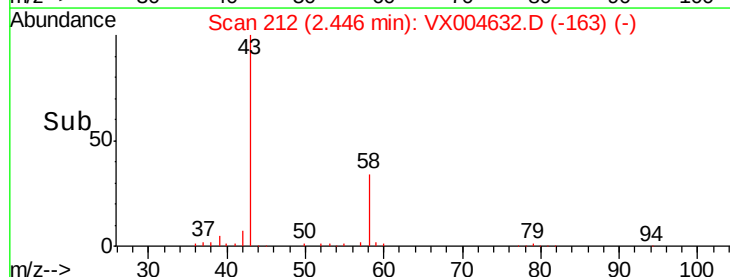
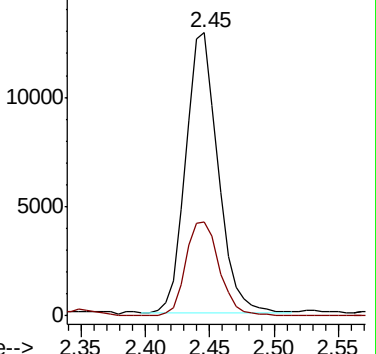
43 100

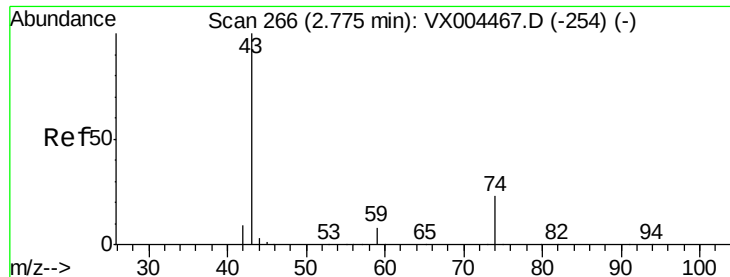
58 33.5 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

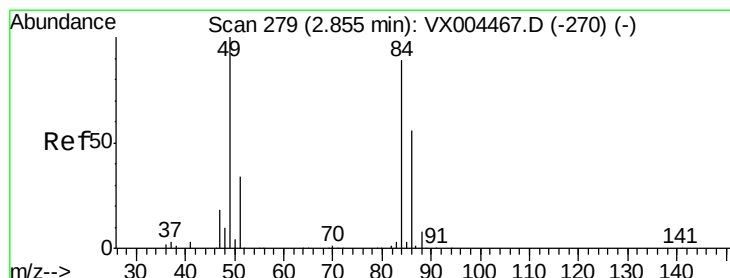
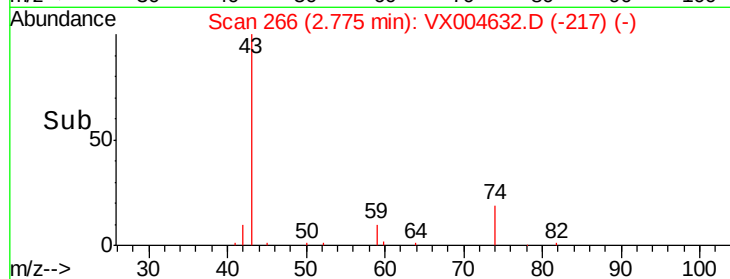
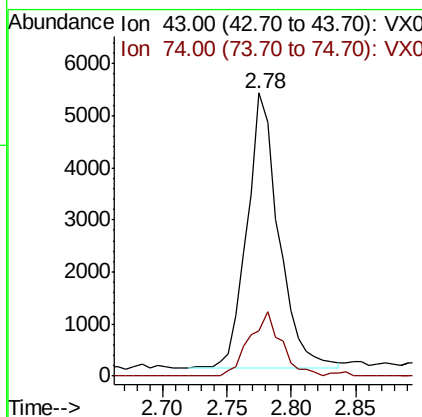
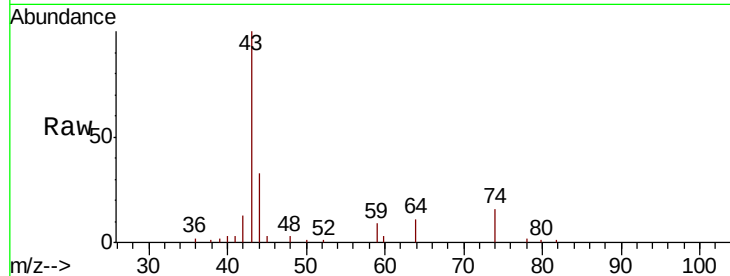




#18
Methvl Acetate
Concen: 2.30 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004632.D
Acq: 17 Sep 2018 21:19

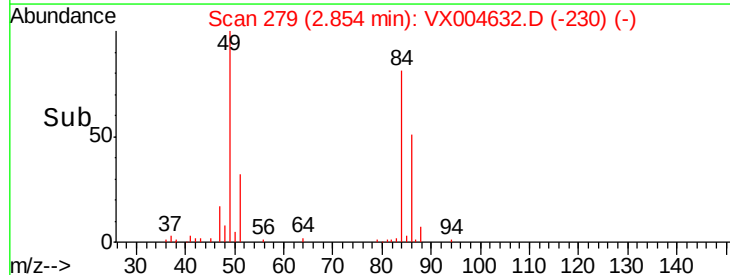
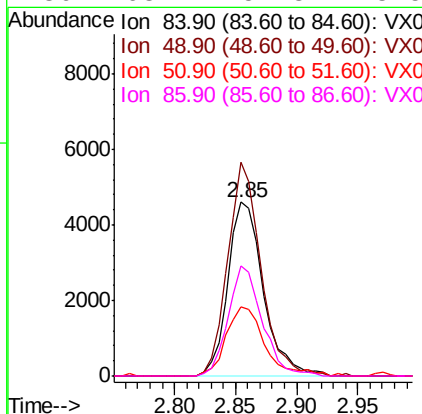
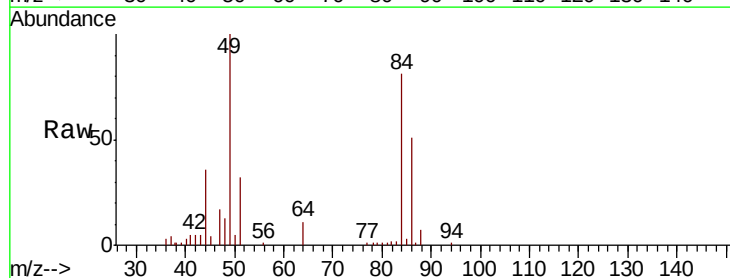
Instrument :
MSVOA_X
ClientSampleId :

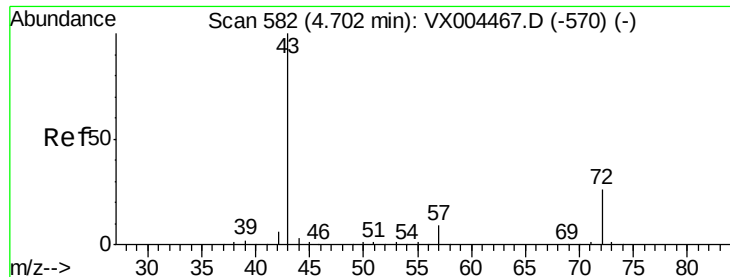
Tot Ion: 43 Resp: 8939
Ion Ratio Lower Upper
43 100
74 23.7 19.4 29.2



#20
Methylene Chloride
Concen: 3.25 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004632.D
Acq: 17 Sep 2018 21:19

Tgt Ion: 84 Resp: 9228
Ion Ratio Lower Upper
84 100
49 123.0 101.2 151.8
51 39.9 29.5 44.3
86 63.2 52.3 78.5





#25

2-Butanone

Concen: 3.05 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX004632.D

Acq: 17 Sep 2018 21:19

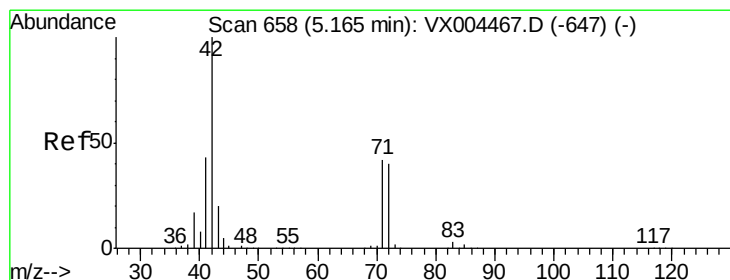
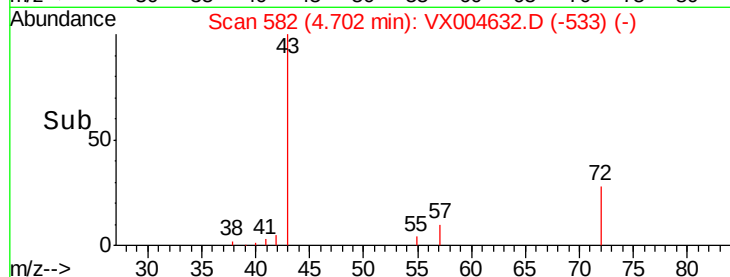
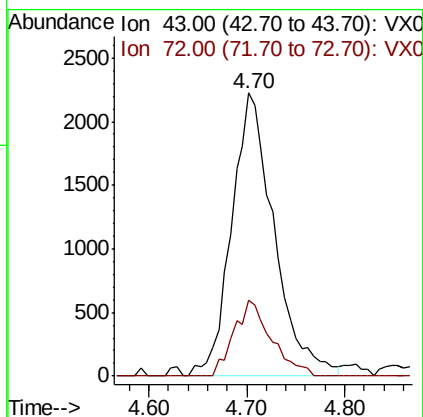
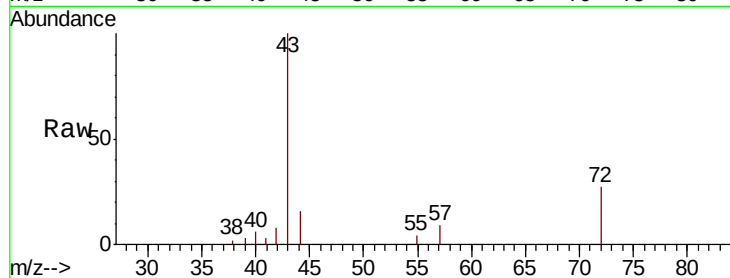
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 6719

Ion Ratio Lower Upper

43 100

72 26.8 22.0 33.0



#29

Tetrahydrofuran

Concen: 1.23 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX004632.D

Acq: 17 Sep 2018 21:19

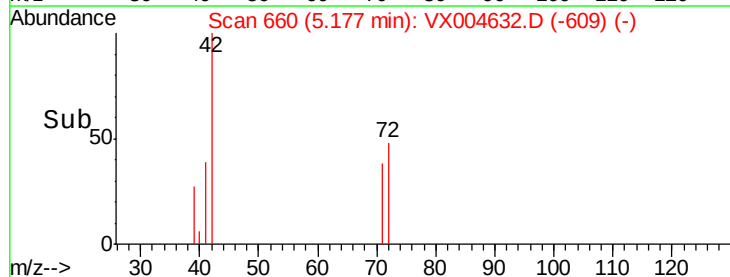
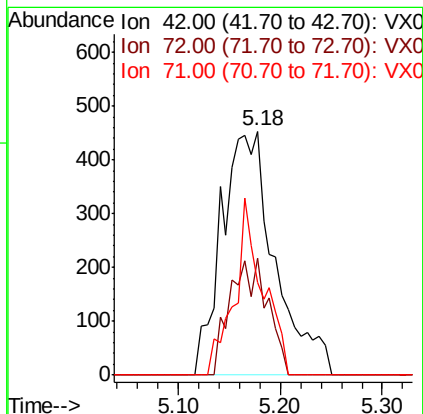
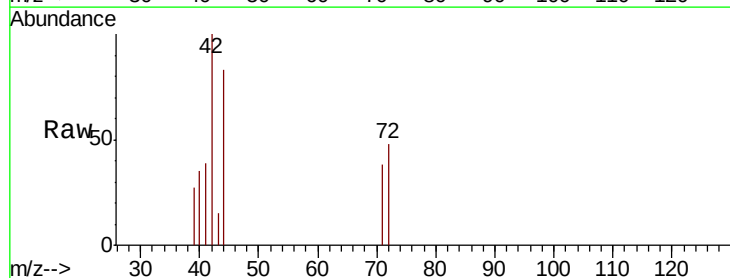
Tgt Ion: 42 Resp: 1641

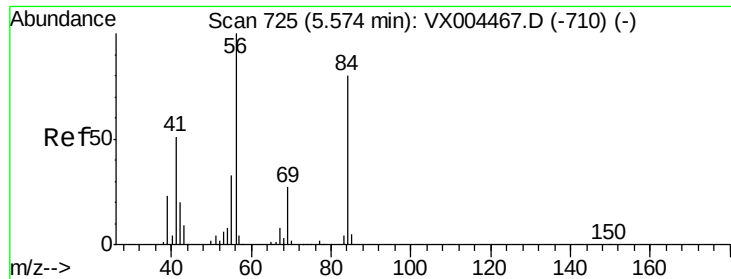
Ion Ratio Lower Upper

42 100

72 33.8 37.4 56.0#

71 38.5 34.5 51.7

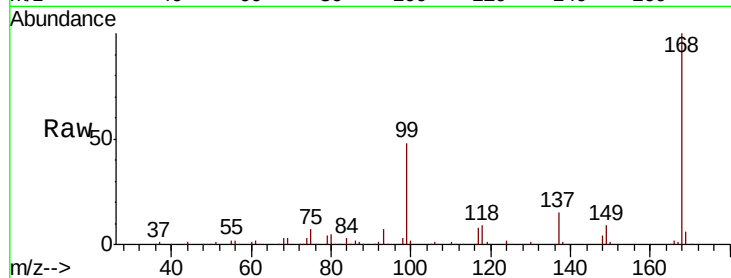




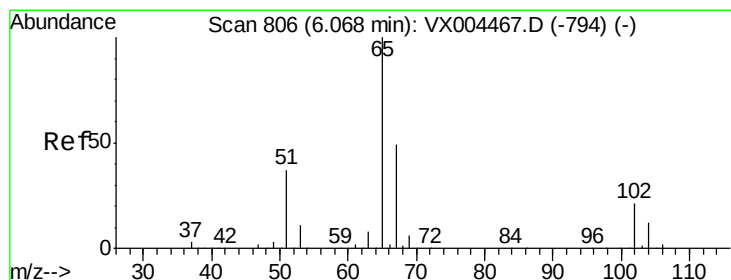
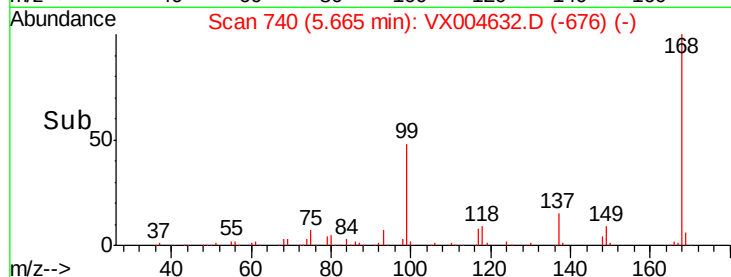
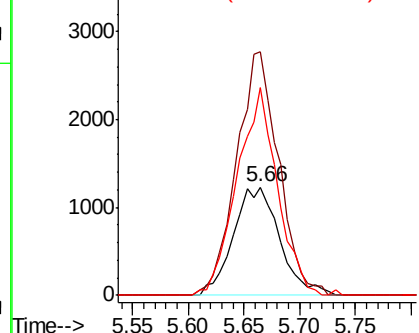
#31
Cyclohexane
Concen: 0.87 ug/l
RT: 5.66 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX004632.D
Acq: 17 Sep 2018 21:19

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 3558
Ion Ratio Lower Upper
56 100
69 225.4 25.4 38.2#
84 192.4 71.4 107.2#

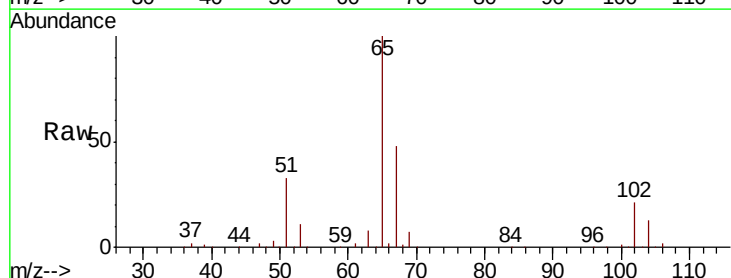


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

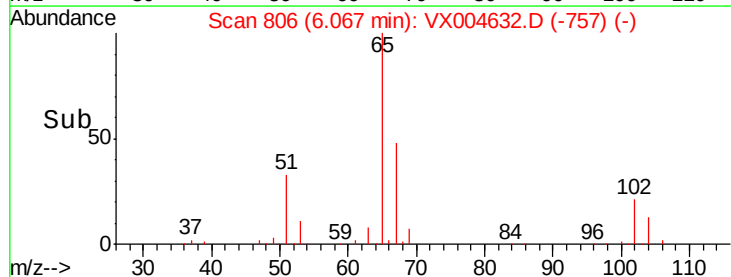
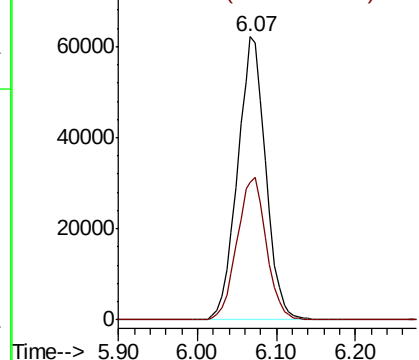


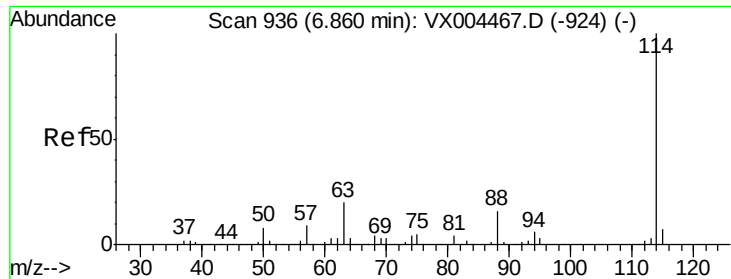
#33
1,2-Dichloroethane-d4
Concen: 54.19 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX004632.D
Acq: 17 Sep 2018 21:19

Tgt Ion: 65 Resp: 153821
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.8



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

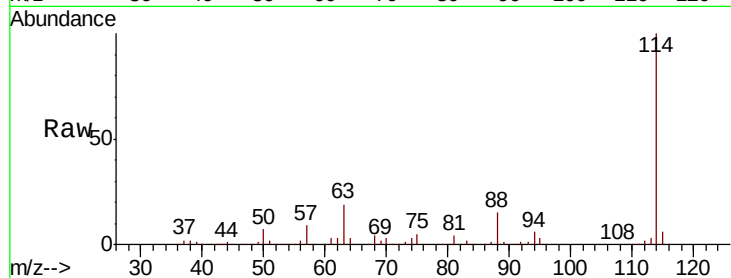




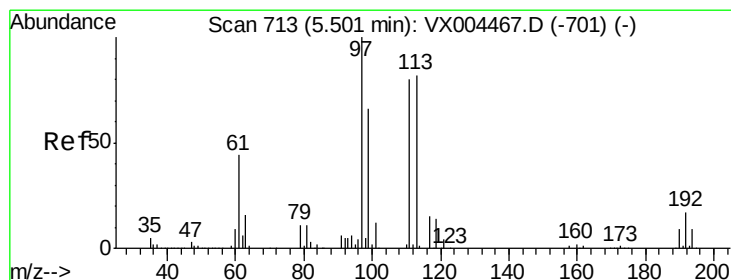
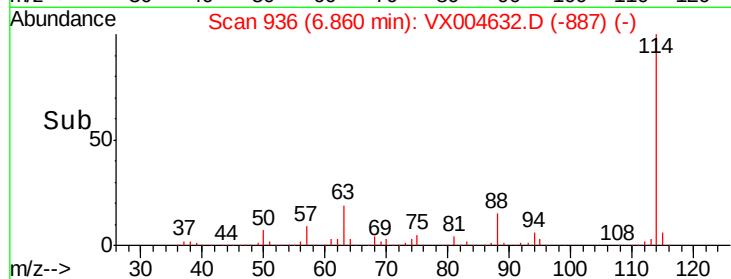
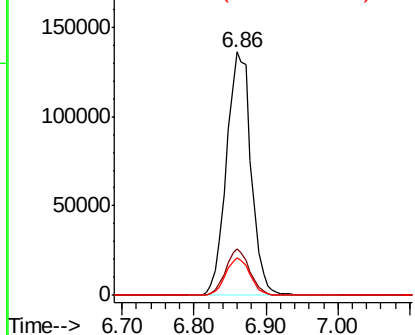
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004632.D
 Acq: 17 Sep 2018 21:19

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 324689
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.0
 88 15.5 0.0 30.4

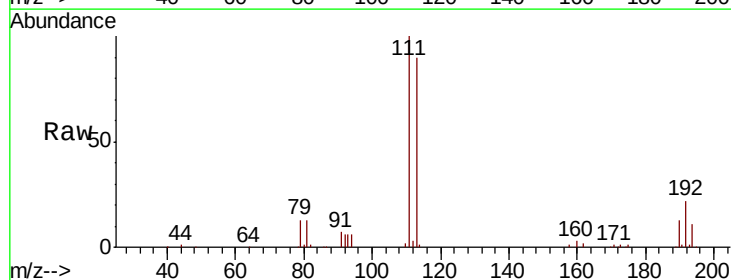


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

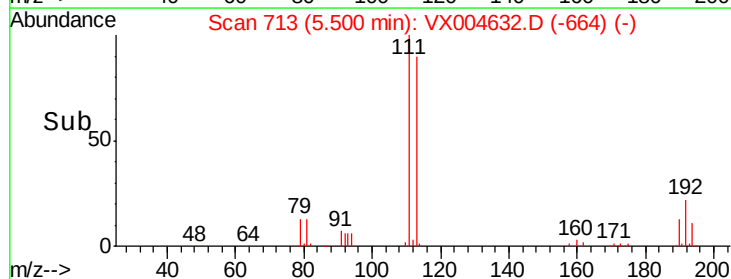
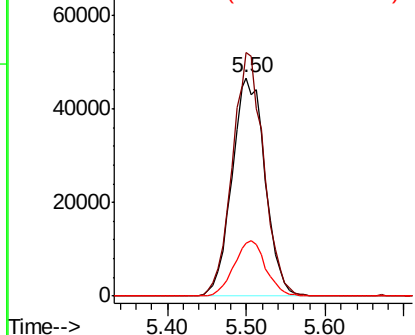


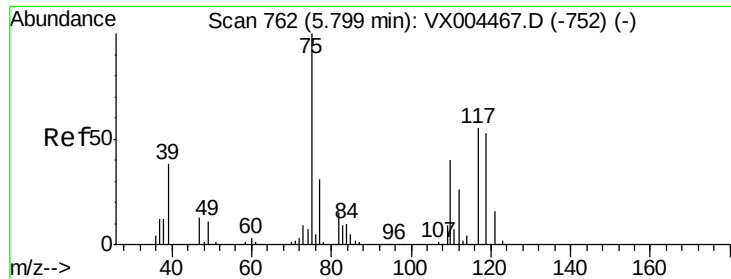
#35
 Dibromofluoromethane
 Concen: 45.75 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004632.D
 Acq: 17 Sep 2018 21:19

Tgt Ion:113 Resp: 135933
 Ion Ratio Lower Upper
 113 100
 111 105.7 82.4 123.6
 192 24.5 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

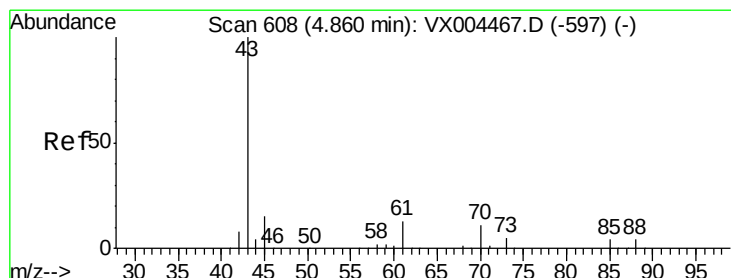
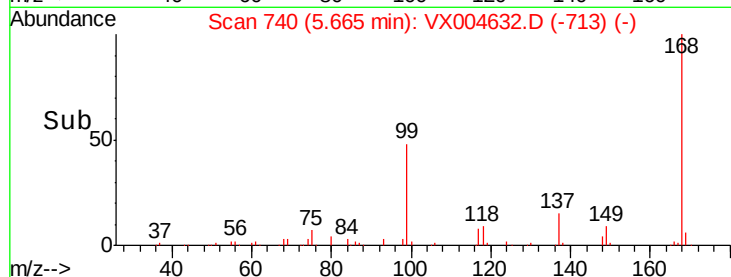
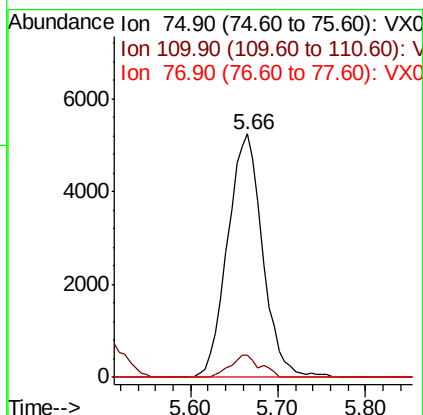
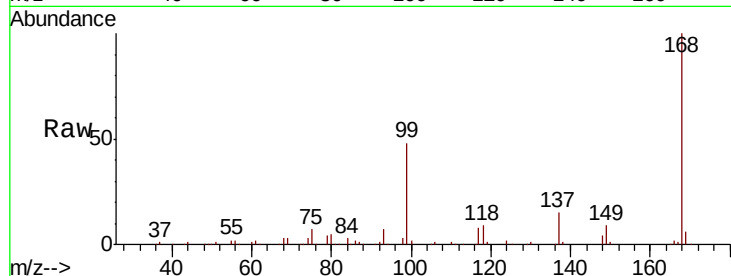




#36
 1,1-Dichloropropene
 Concen: 3.70 ug/l
 RT: 5.66 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004632.D
 Acq: 17 Sep 2018 21:19

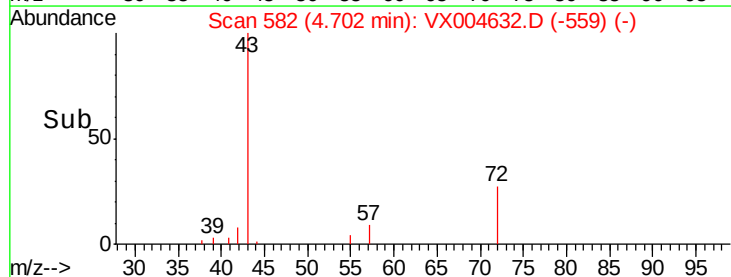
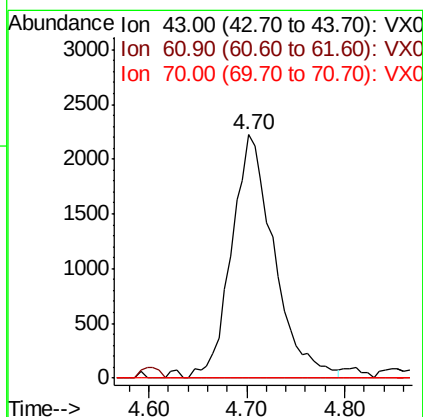
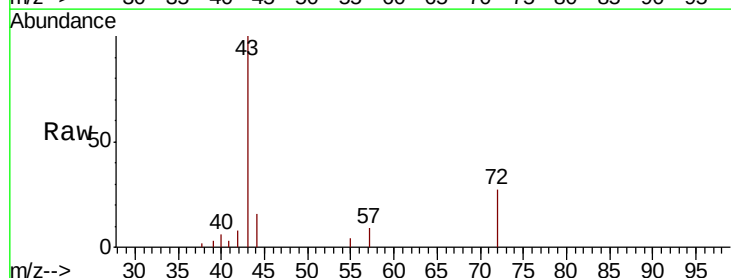
Instrument :
 MSVOA_X
 ClientSampleId :

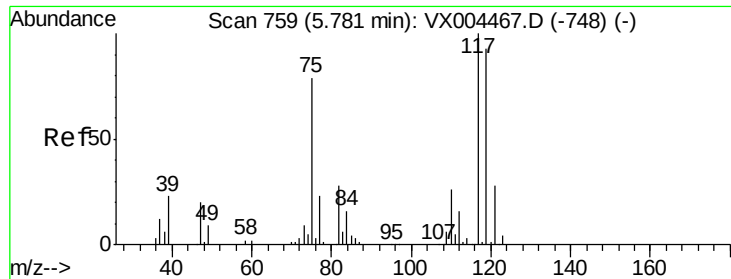
Tot Ion: 75 Resp: 14571
 Ion Ratio Lower Upper
 75 100
 110 7.9 18.0 54.0#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 1.50 ug/l
 RT: 4.70 min Scan# 582
 Delta R.T. -0.16 min
 Lab File: VX004632.D
 Acq: 17 Sep 2018 21:19

Tgt Ion: 43 Resp: 6719
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.5 17.3#
 70 0.0 9.0 13.6#





#38

Carbon Tetrachloride

Concen: 4.83 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004632.D

Acq: 17 Sep 2018 21:19

Instrument :

MSVOA_X

ClientSampleId :

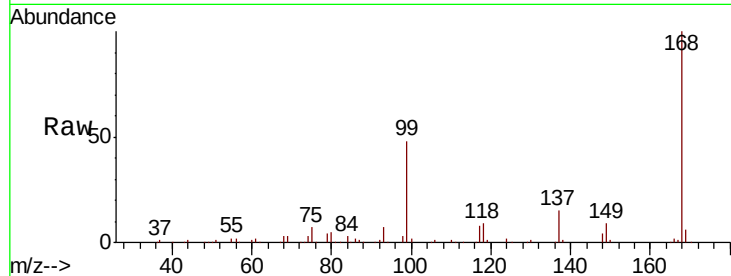
Tot Ion:117 Resp: 18611

Ion Ratio Lower Upper

117 100

119 7.1 78.8 118.2#

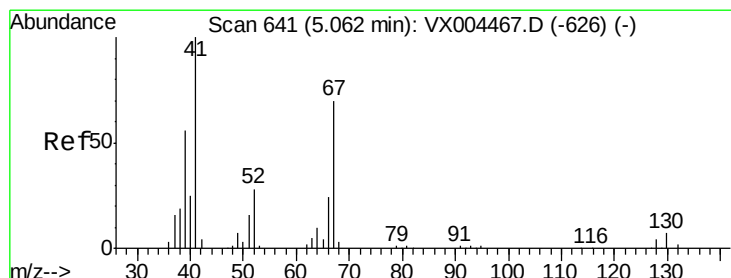
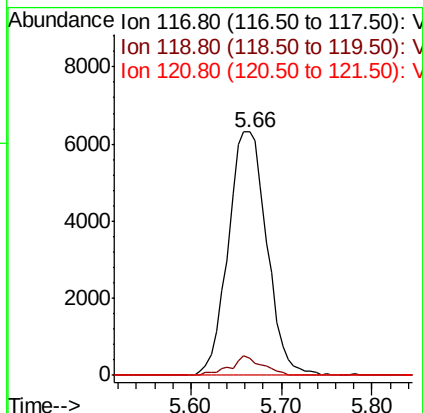
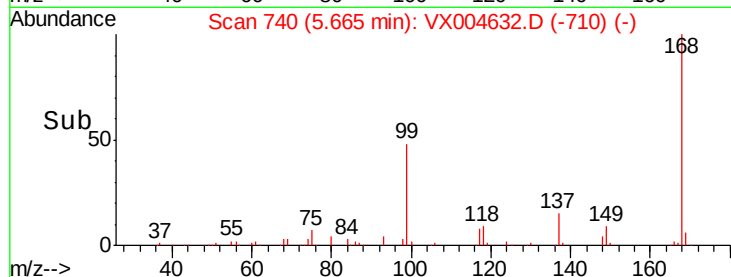
121 0.0 24.9 37.3#



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: 0.38 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.11 min

Lab File: VX004632.D

Acq: 17 Sep 2018 21:19

Tgt Ion: 41 Resp: 944

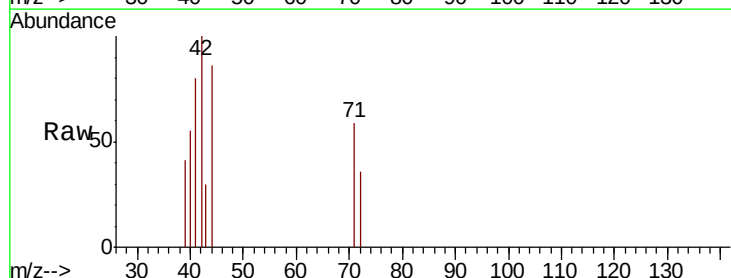
Ion Ratio Lower Upper

41 100

39 50.4 42.4 63.6

67 0.0 59.2 88.8#

52 0.0 23.0 34.4#

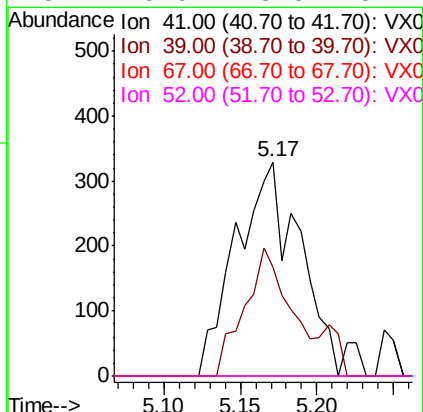
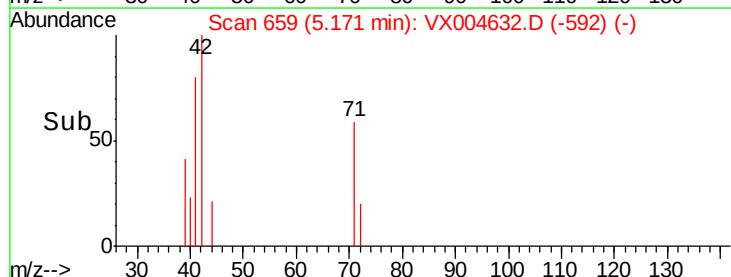


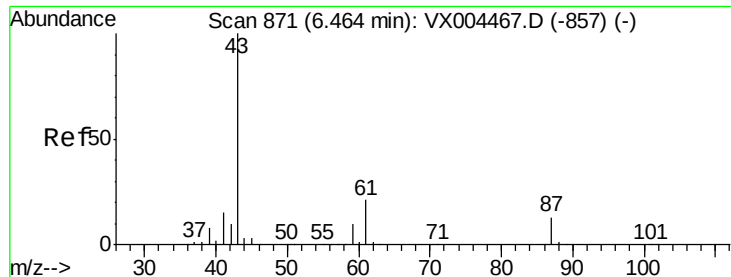
Abundance Ion 41.00 (40.70 to 41.70): VX0

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: 27.94 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.00 min

Lab File: VX004632.D

Acq: 17 Sep 2018 21:19

Instrument :

MSVOA_X

ClientSampleId :

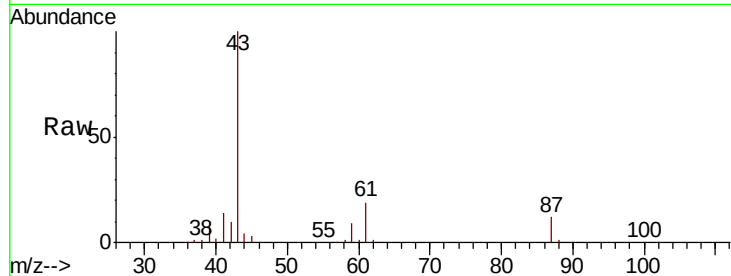
Tot Ion: 43 Resp: 166373

Ion Ratio Lower Upper

43 100

61 19.3 17.0 25.4

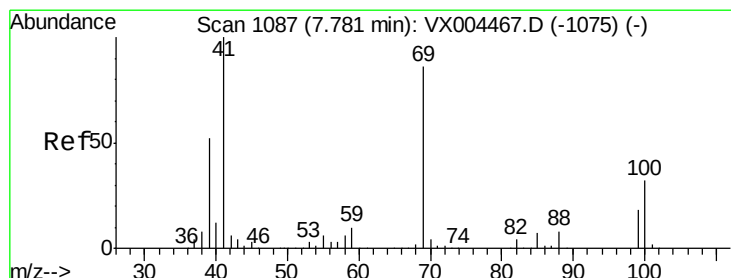
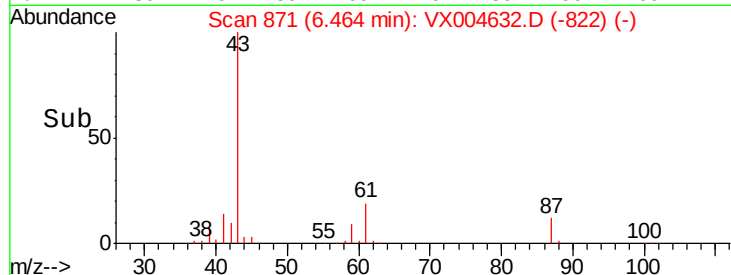
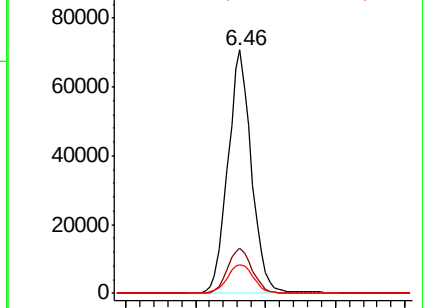
87 13.1 11.4 17.2



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

Methyl methacrylate

Concen: 2.02 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.10 min

Lab File: VX004632.D

Acq: 17 Sep 2018 21:19

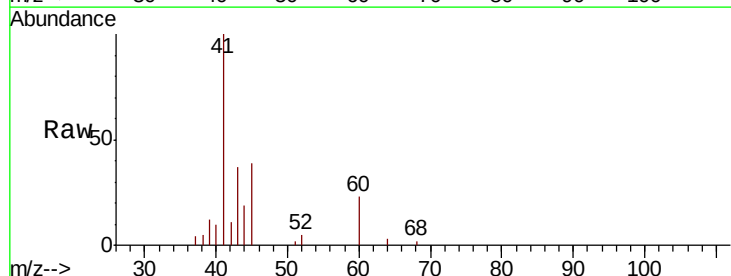
Tgt Ion: 41 Resp: 5967

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

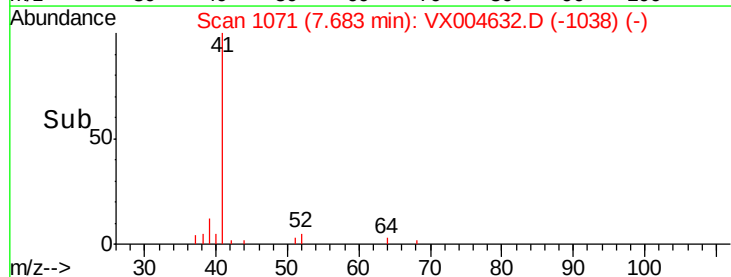
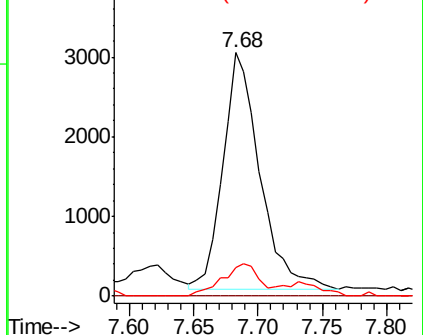
39 13.9 42.7 64.1#

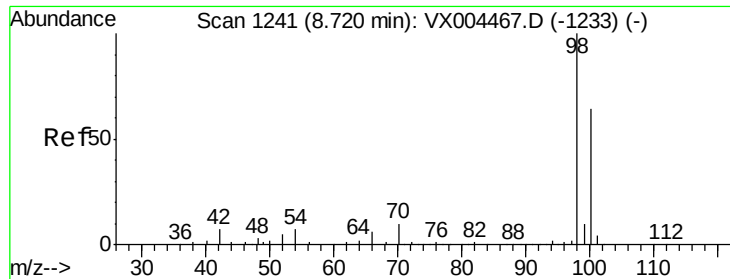


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 45.10 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004632.D

Acq: 17 Sep 2018 21:19

Instrument :

MSVOA_X

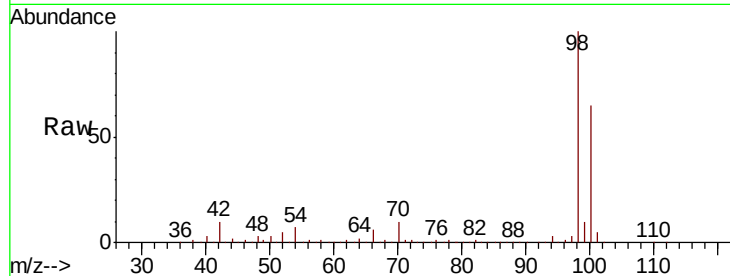
ClientSampleId :

Tot Ion: 98 Resp: 449387

Ion Ratio Lower Upper

98 100

100 64.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

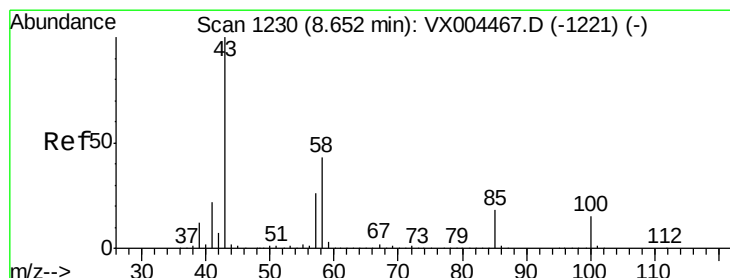
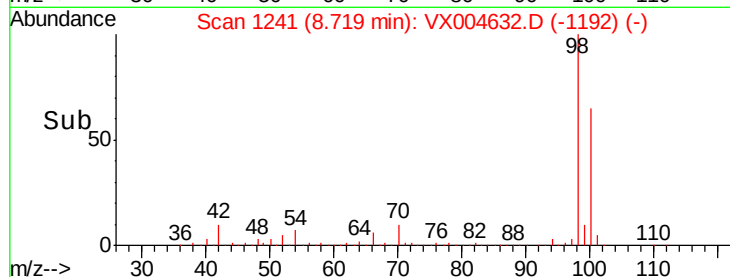
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.48 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004632.D

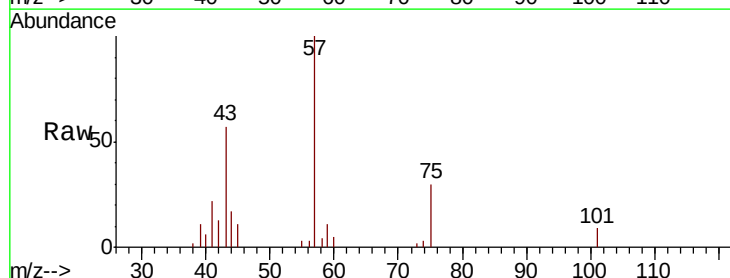
Acq: 17 Sep 2018 21:19

Tgt Ion: 43 Resp: 2023

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

8.62

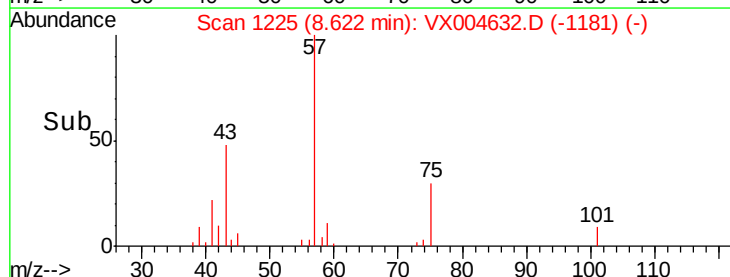
1500

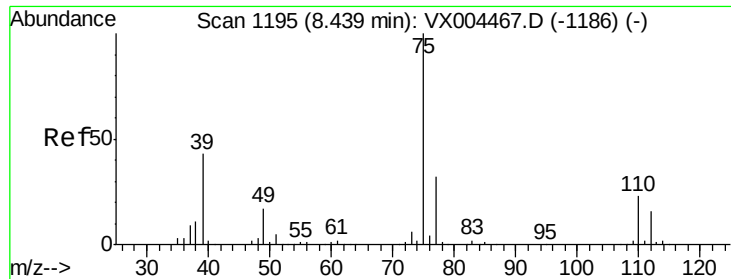
1000

500

0

Time-->

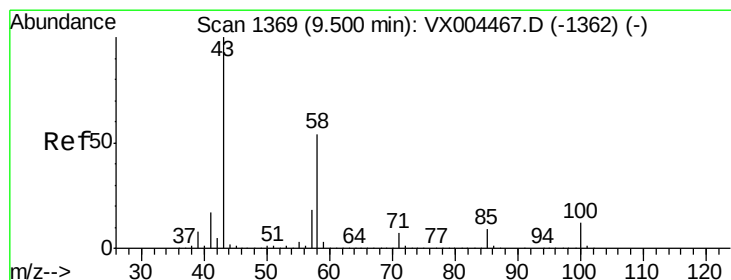
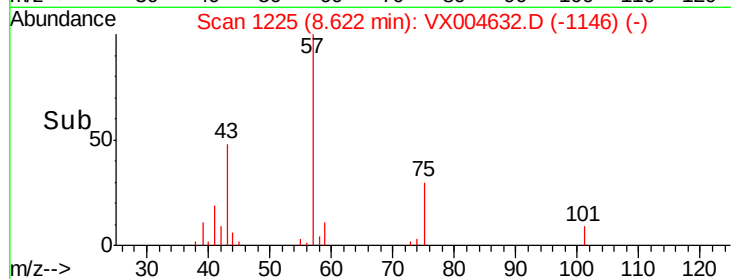
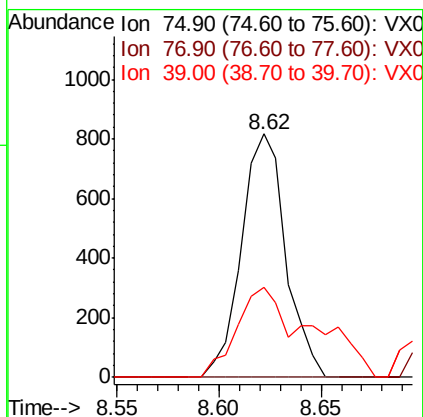
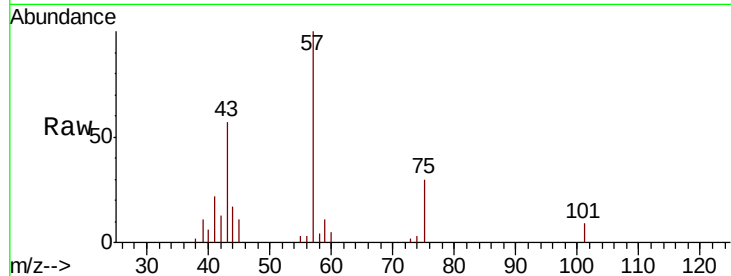




#54
 cis-1,3-Dichloropropene
 Concen: 0.31 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX004632.D
 Acq: 17 Sep 2018 21:19

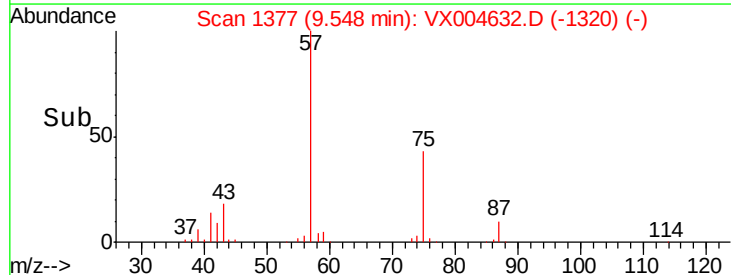
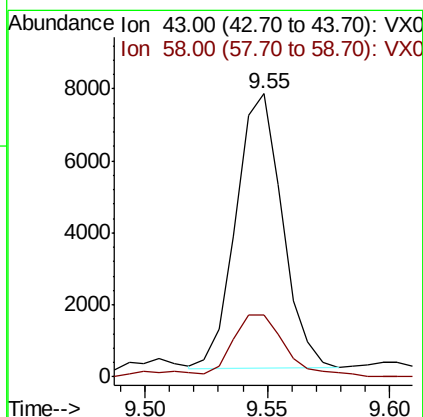
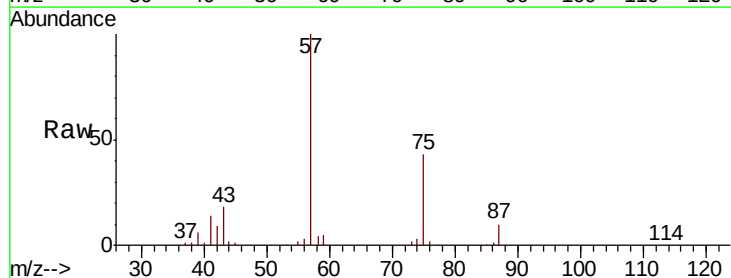
Instrument :
 MSVOA_X
 ClientSampleId :

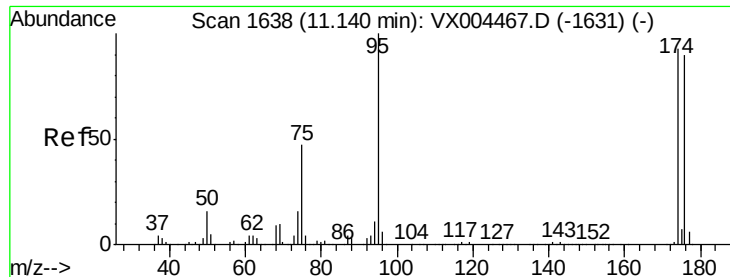
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	26.2	39.2#
39	36.7	36.4	54.6



#59
 2-Hexanone
 Concen: 3.12 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX004632.D
 Acq: 17 Sep 2018 21:19

Tgt Ion	Ratio	Lower	Upper
43	100		
58	25.6	29.0	87.0#





#62

4-Bromofluorobenzene

Concen: 43.83 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004632.D

Acq: 17 Sep 2018 21:19

Instrument :

MSVOA_X

ClientSampleId :

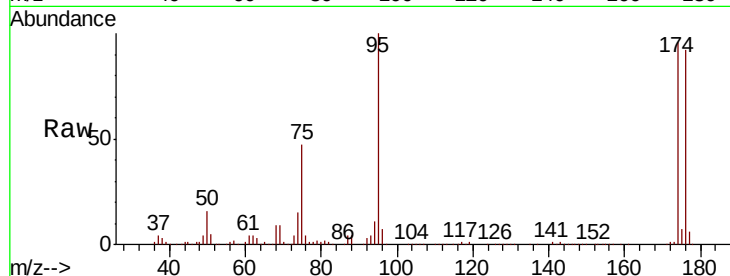
Tot Ion: 95 Resp: 155899

Ion Ratio Lower Upper

95 100

174 95.5 0.0 185.2

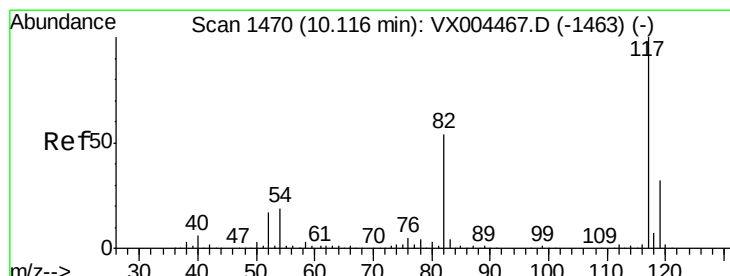
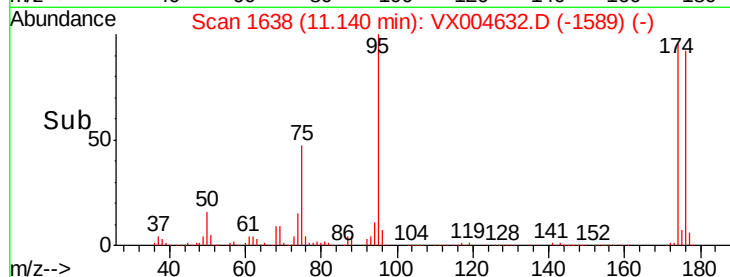
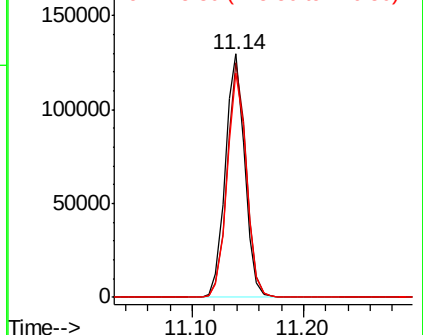
176 92.1 0.0 178.6



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: VX004632.D

Acq: 17 Sep 2018 21:19

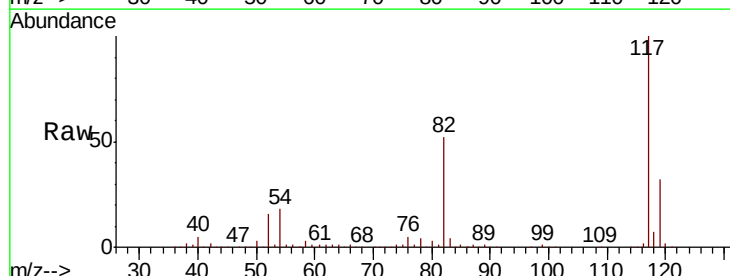
Tgt Ion: 117 Resp: 310071

Ion Ratio Lower Upper

117 100

82 52.5 47.8 71.6

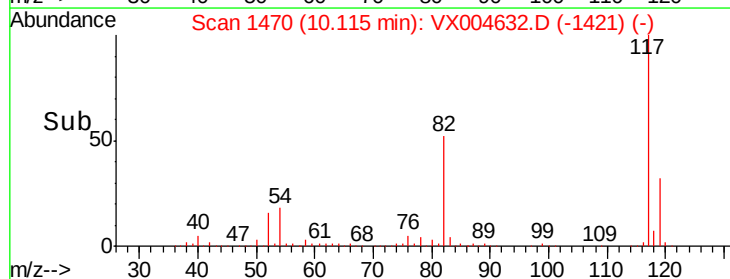
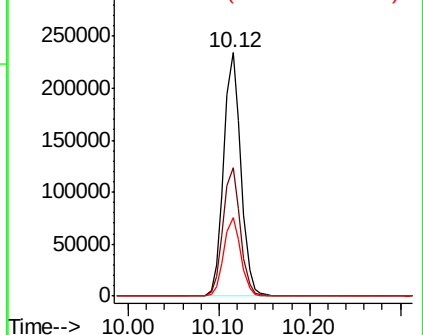
119 32.3 29.3 43.9

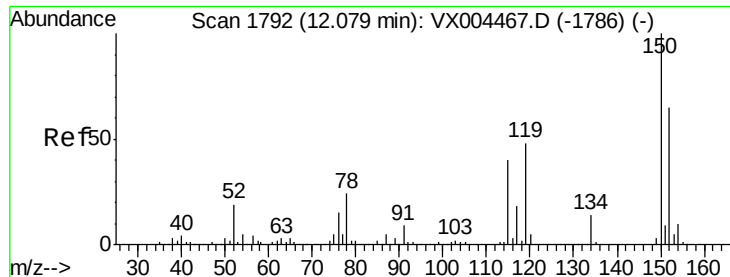


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX004632.D

Acq: 17 Sep 2018 21:19

Instrument :

MSVOA_X

ClientSampleId :

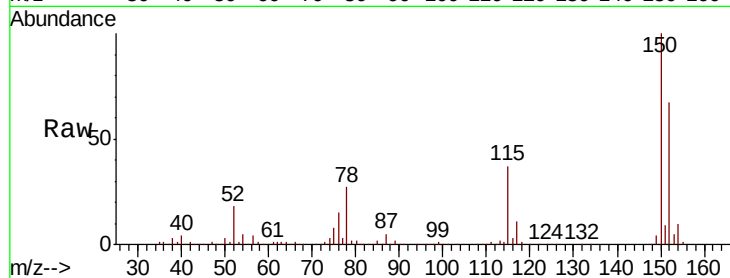
Tot Ion:152 Resp: 190797

Ion Ratio Lower Upper

152 100

115 51.3 39.0 117.0

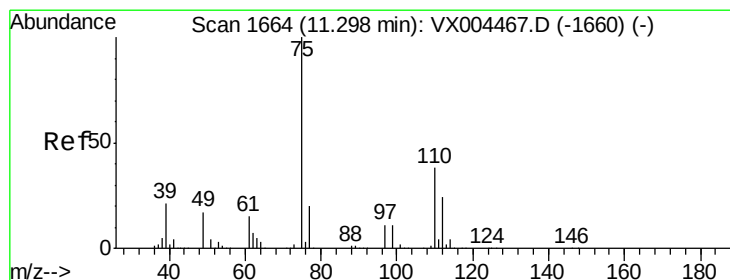
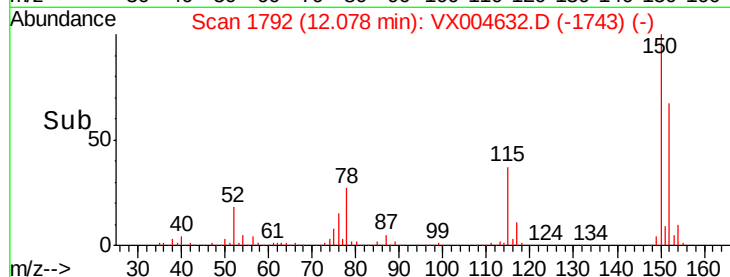
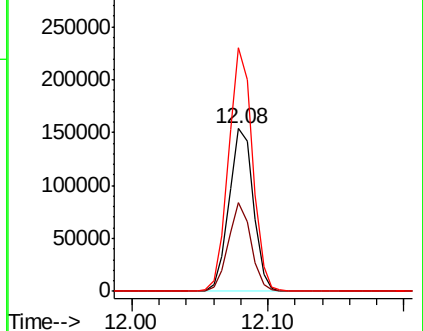
150 147.3 0.0 351.0



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: 19.28 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004632.D

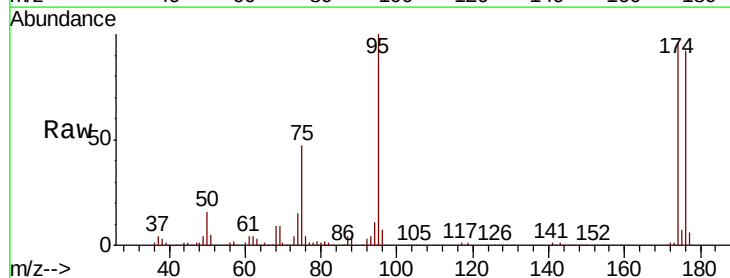
Acq: 17 Sep 2018 21:19

Tgt Ion: 75 Resp: 74016

Ion Ratio Lower Upper

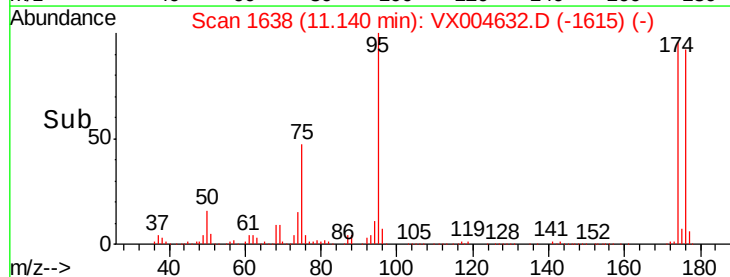
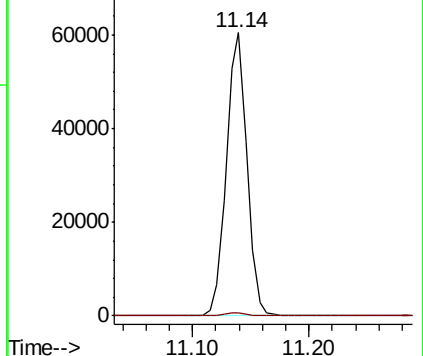
75 100

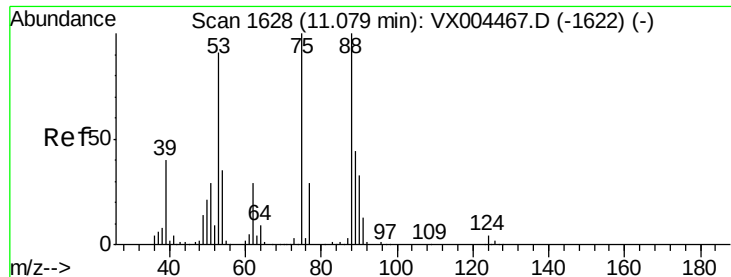
77 1.3 20.2 60.6#



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: 61.46 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004632.D

Acq: 17 Sep 2018 21:19

Instrument :

MSVOA_X

ClientSampleId :

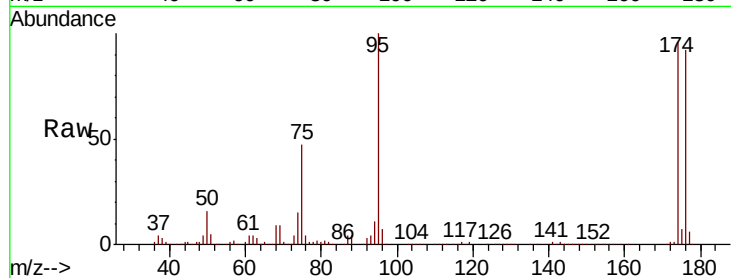
Tot Ion: 75 Resp: 74016

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

