

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090518\
 Data File : VX004375.D
 Acq On : 05 Sep 2018 17:34
 Operator : JC/MD
 Sample : J4801-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 06 00:51:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	300344	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	472569	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	443317	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	234590	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	201806	51.55	ug/l	0.00
Spiked Amount						
			Recovery	=	103.10%	
35) Dibromofluoromethane	5.50	113	176034	50.07	ug/l	0.00
Spiked Amount						
			Recovery	=	100.14%	
50) Toluene-d8	8.71	98	665658	50.16	ug/l	0.00
Spiked Amount						
			Recovery	=	100.32%	
62) 4-Bromofluorobenzene	11.14	95	239736	48.42	ug/l	0.00
Spiked Amount						
			Recovery	=	96.84%	

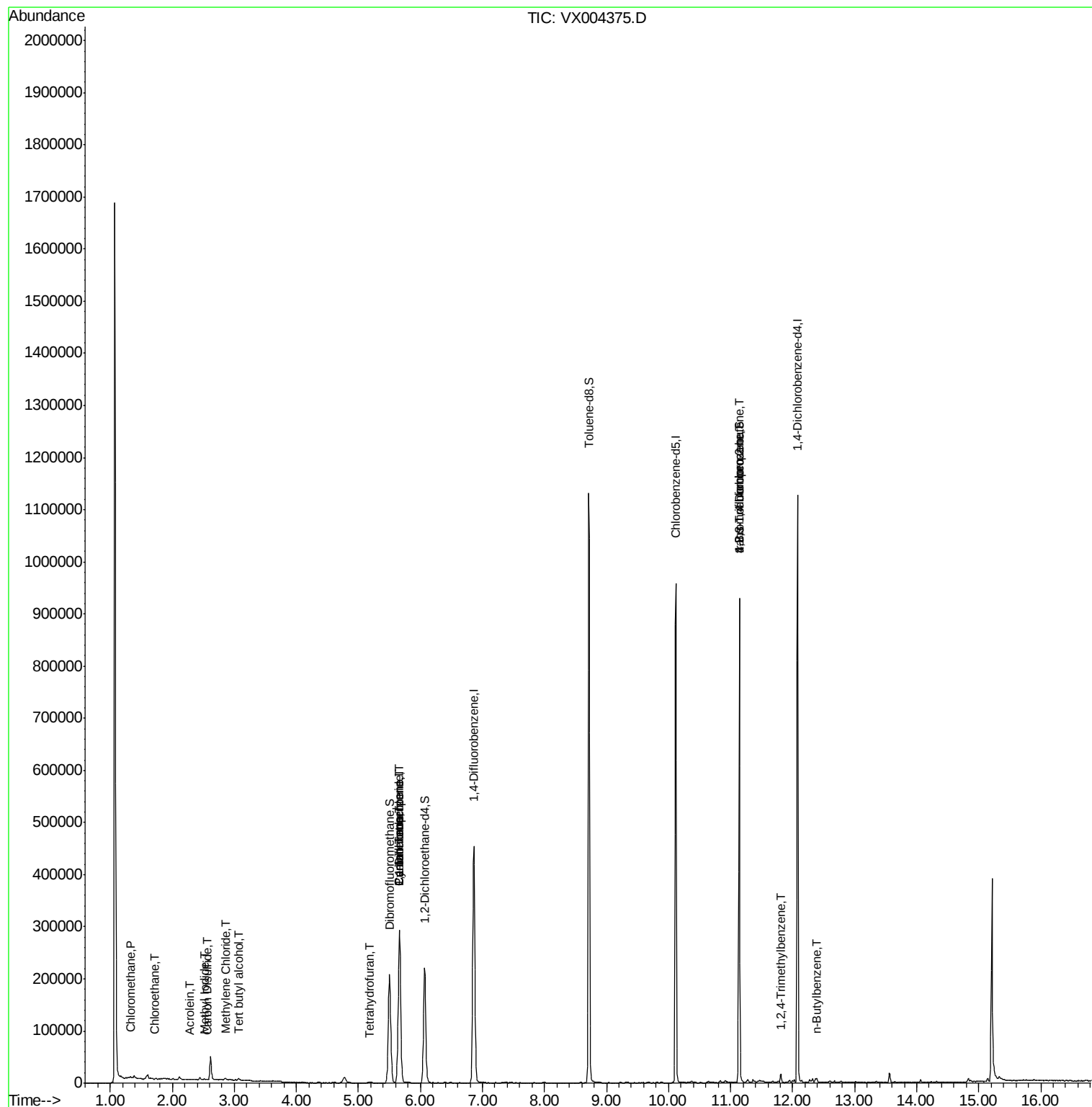
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1305	0.63	ug/l	95
5) Bromomethane	1.65	94	1333	Below Cal		86
6) Chloroethane	1.72	64	3956	2.21	ug/l #	50
10) Methyl Iodide	2.51	142	1242	4.56	ug/l #	95
11) Tert butyl alcohol	3.07	59	4872	5.84	ug/l #	91
13) Acrolein	2.28	56	329	1.64	ug/l #	16
16) Acetone	2.45	43	4412	Below Cal		96
17) Carbon Disulfide	2.57	76	1270	0.94	ug/l #	76
20) Methylene Chloride	2.85	84	1836	0.49	ug/l #	91
25) 2-Butanone	4.72	43	767	Below Cal	#	47
29) Tetrahydrofuran	5.18	42	597	0.35	ug/l #	40
31) Cyclohexane	5.66	56	5079	0.93	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19801	3.73	ug/l #	49
38) Carbon Tetrachloride	5.66	117	25825	5.17	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	112217	23.52	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	112217	76.31	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	6508	0.50	ug/l	98
89) n-Butylbenzene	12.39	91	3014	0.27	ug/l #	79
94) Hexachlorobutadiene	13.78	225	240	Below Cal		85

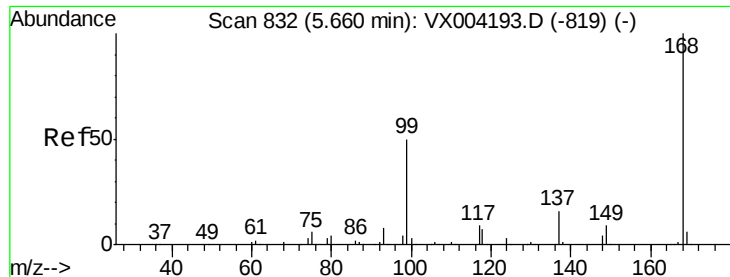
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.00 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

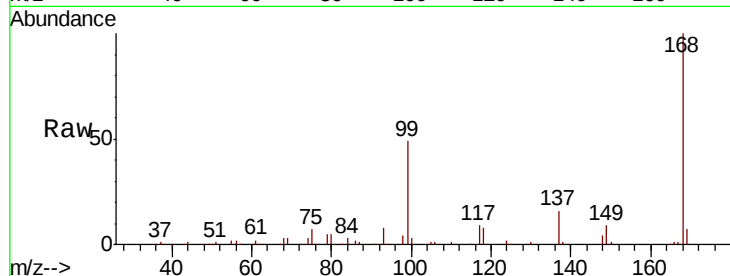
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 300344

Ion Ratio Lower Upper

168 100

99 49.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

60000

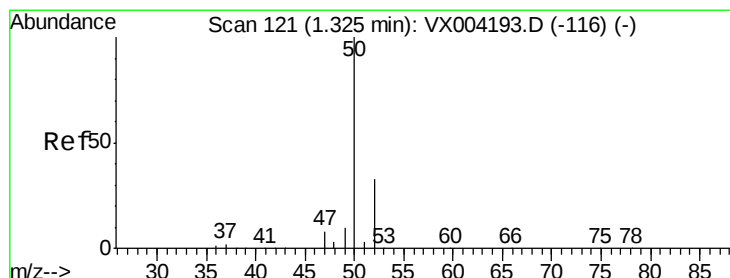
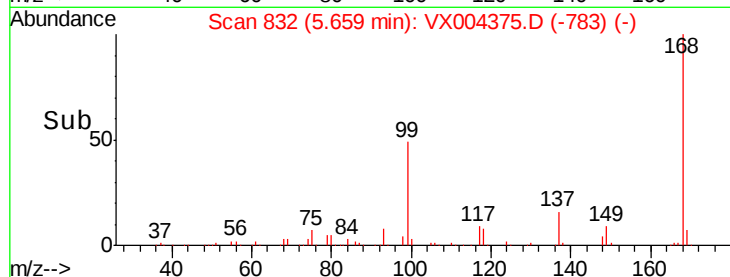
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.63 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004375.D

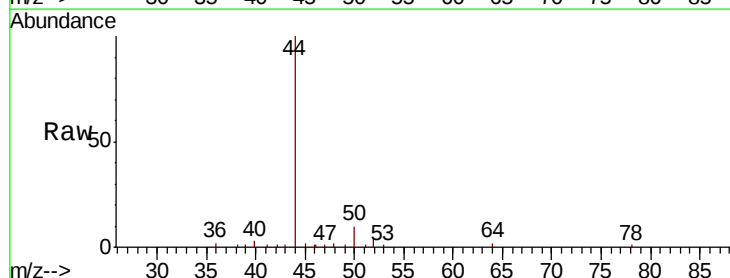
Acq: 05 Sep 2018 17:34

Tgt Ion: 50 Resp: 1305

Ion Ratio Lower Upper

50 100

52 35.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

600

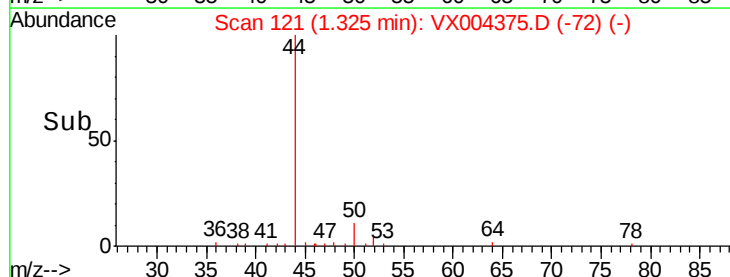
400

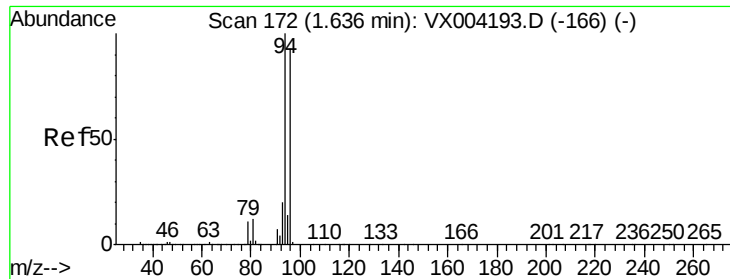
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

Instrument :

MSVOA_X

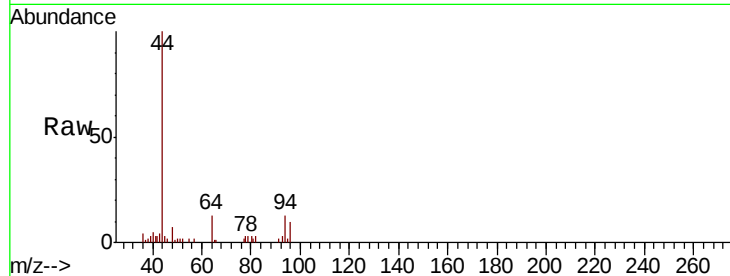
ClientSampleId :

Tot Ion: 94 Resp: 1333

Ion Ratio Lower Upper

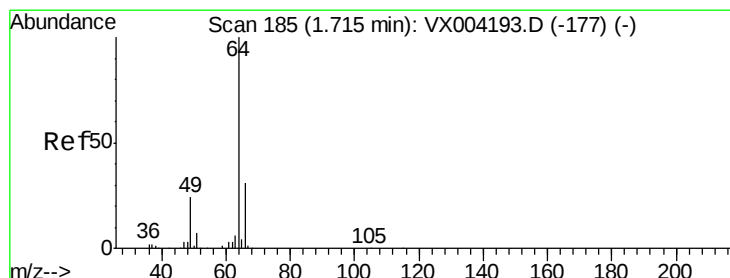
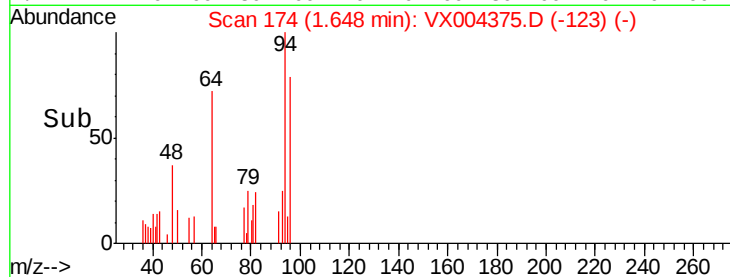
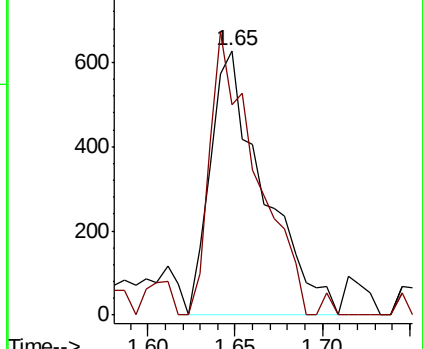
94 100

96 79.4 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: 2.21 ug/l

RT: 1.72 min Scan# 186

Delta R.T. 0.01 min

Lab File: VX004375.D

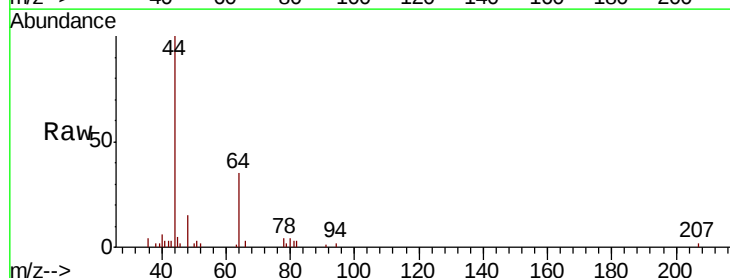
Acq: 05 Sep 2018 17:34

Tgt Ion: 64 Resp: 3956

Ion Ratio Lower Upper

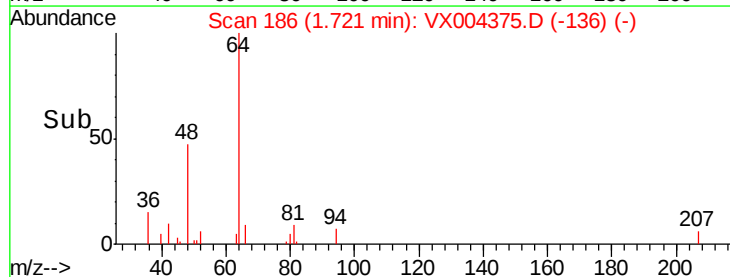
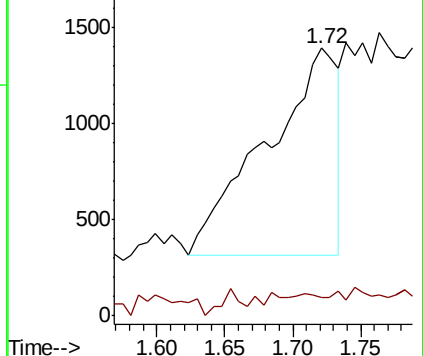
64 100

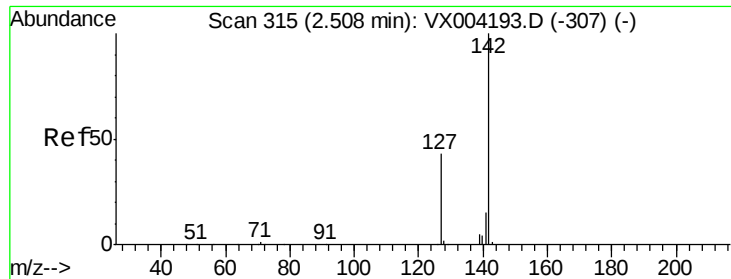
66 3.1 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

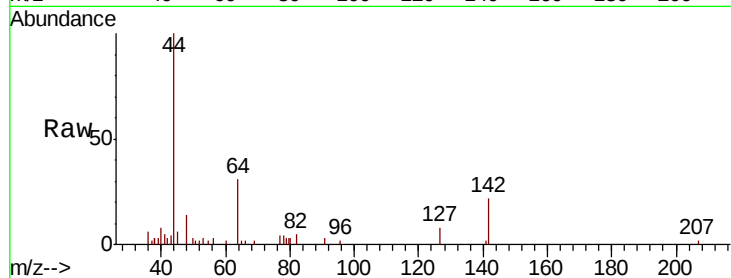




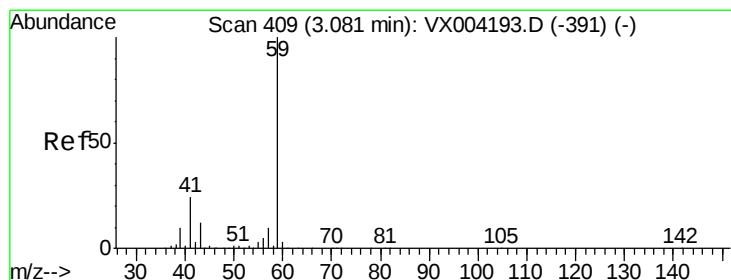
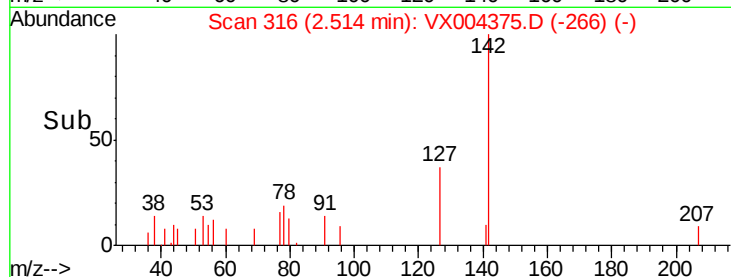
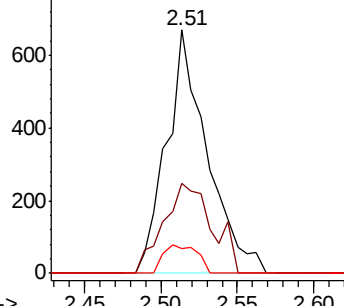
#10
Methvl Iodide
Concen: 4.56 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX004375.D
Acq: 05 Sep 2018 17:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 1242
Ion Ratio Lower Upper
142 100
127 44.0 33.8 50.6
141 9.6 11.4 17.0#

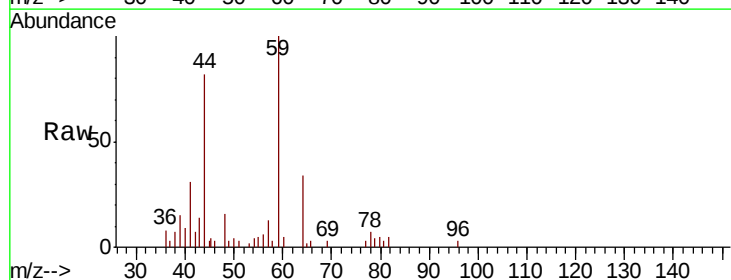


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

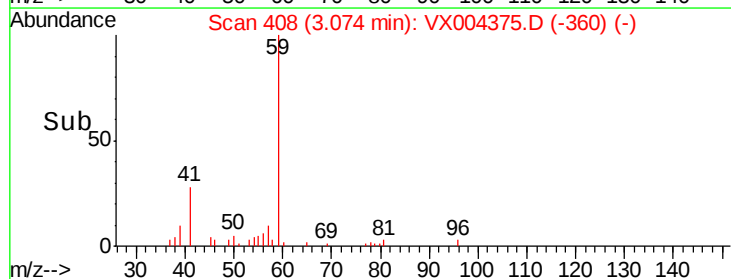
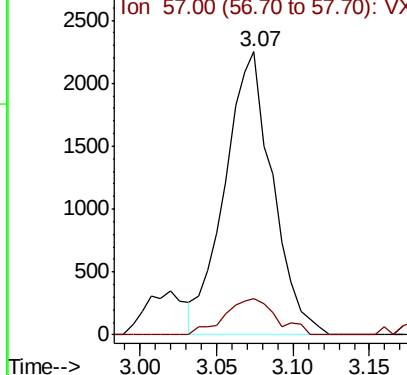


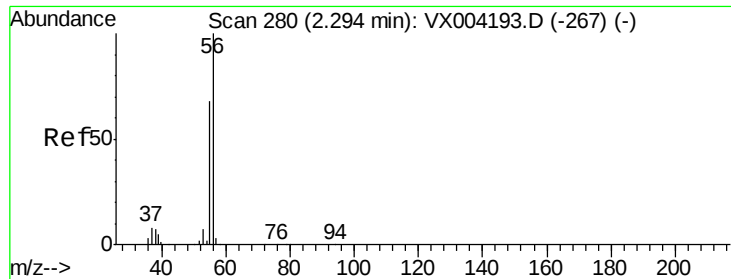
#11
Tert butyl alcohol
Concen: 5.84 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX004375.D
Acq: 05 Sep 2018 17:34

Tgt Ion: 59 Resp: 4872
Ion Ratio Lower Upper
59 100
57 13.8 8.2 12.4#



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

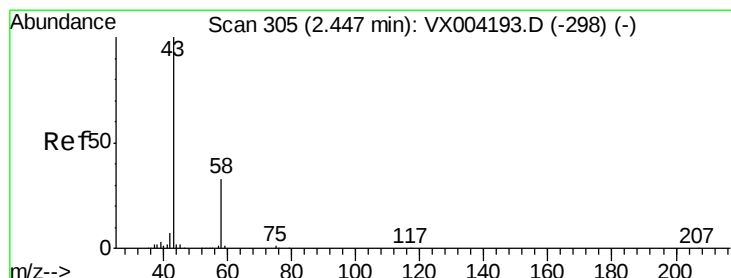
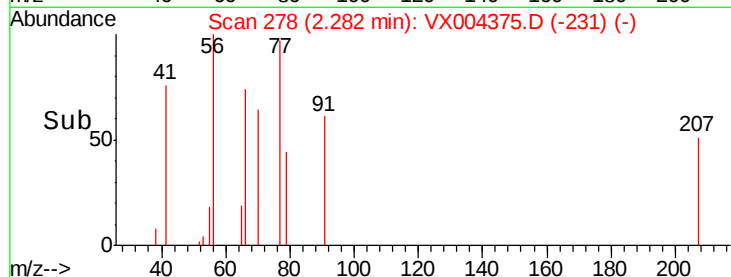
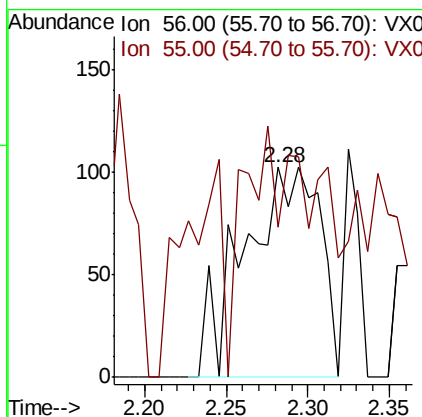
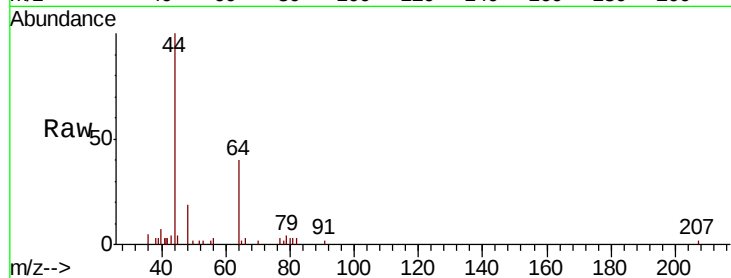




#13
Acrolein
Concen: 1.64 ua/l
RT: 2.28 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX004375.D
Acq: 05 Sep 2018 17:34

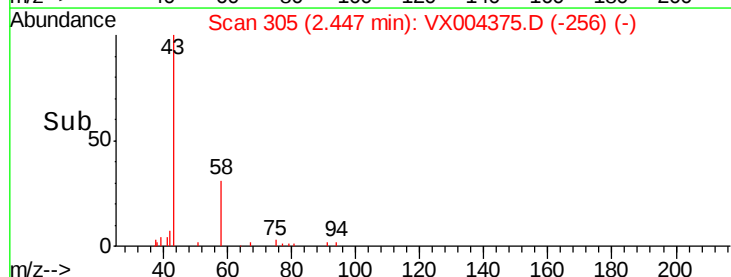
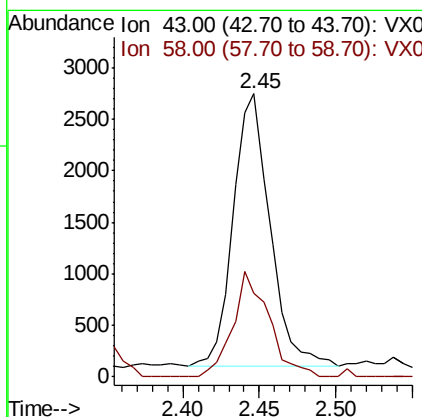
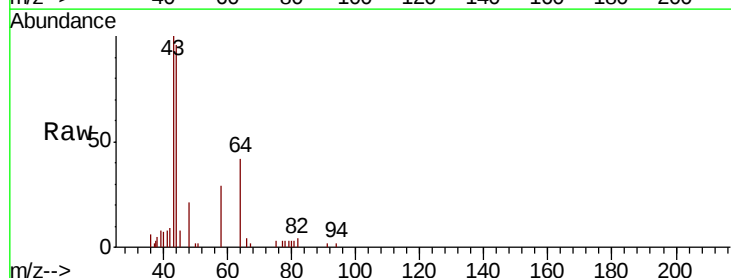
Instrument :
MSVOA_X
ClientSampled :

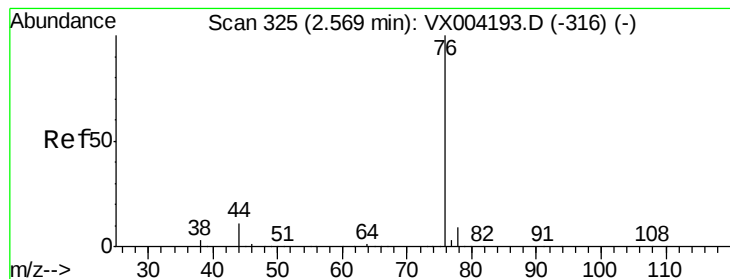
Tot Ion: 56 Resp: 329
Ion Ratio Lower Upper
56 100
55 0.0 54.7 82.1#



#16
Acetone
Concen: Below Cal
RT: 2.45 min Scan# 305
Delta R.T. 0.00 min
Lab File: VX004375.D
Acq: 05 Sep 2018 17:34

Tgt Ion: 43 Resp: 4412
Ion Ratio Lower Upper
43 100
58 30.6 26.2 39.4





#17

Carbon Disulfide

Concen: 0.94 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

Instrument :

MSVOA_X

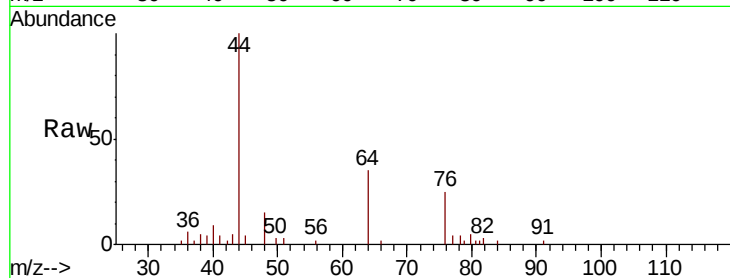
ClientSampleId :

Tot Ion: 76 Resp: 1270

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

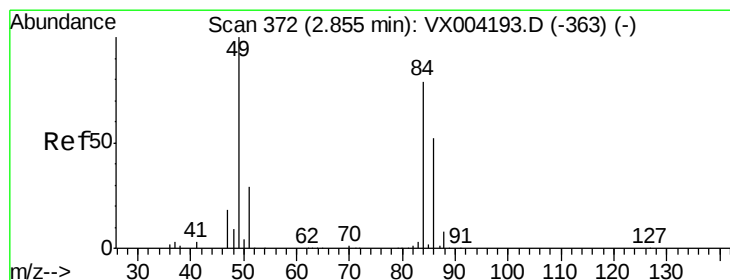
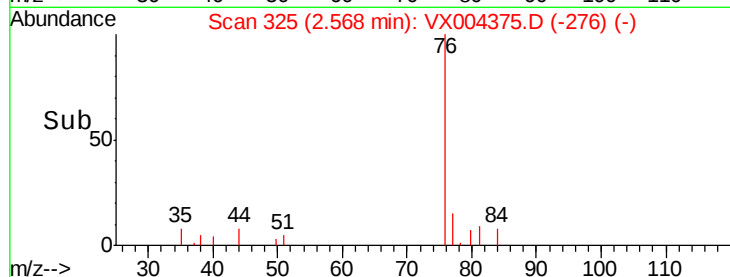
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 0.49 ug/l

RT: 2.85 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

Tgt Ion: 84 Resp: 1836

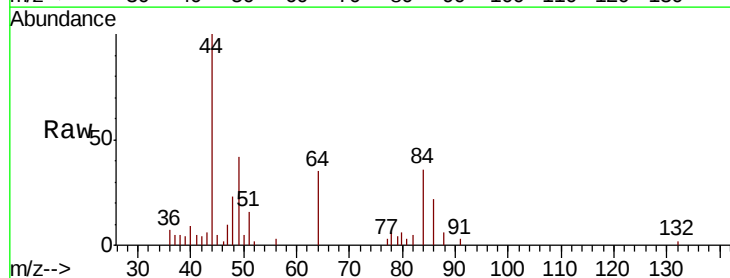
Ion Ratio Lower Upper

84 100

49 116.7 101.2 151.8

51 45.2 29.5 44.3#

86 60.2 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

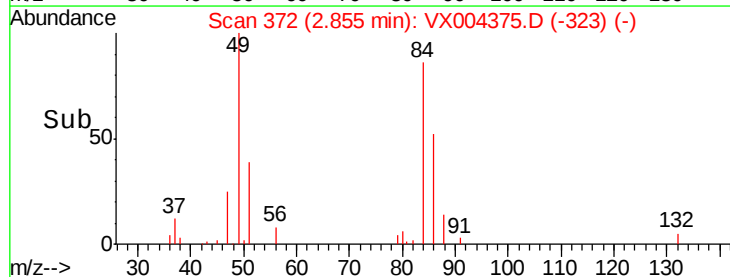
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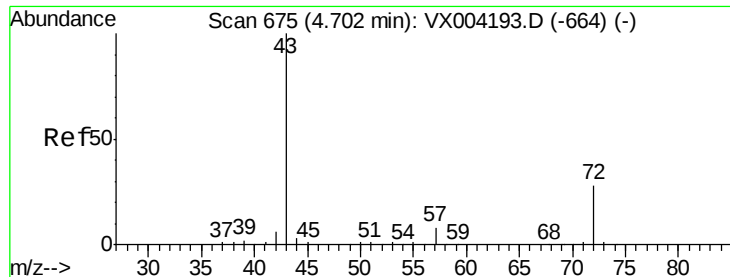
1000

500

0

Time-->





#25

2-Butanone

Concen: Below Cal

RT: 4.72 min Scan# 678

Delta R.T. 0.02 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

Instrument :

MSVOA_X

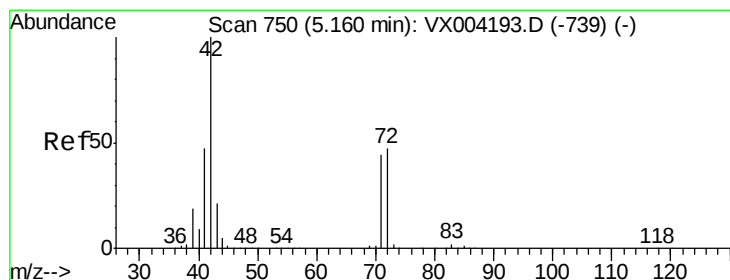
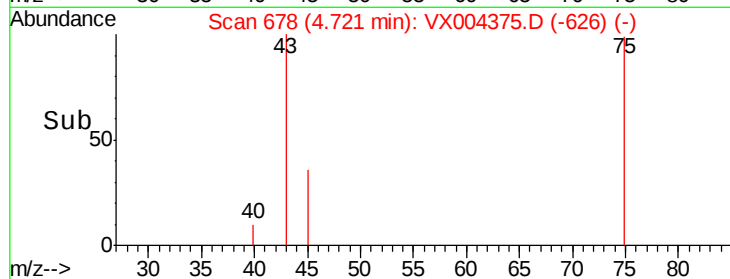
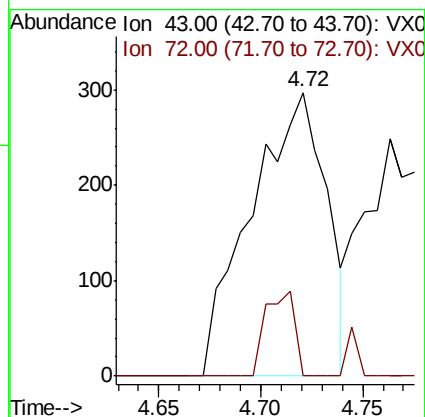
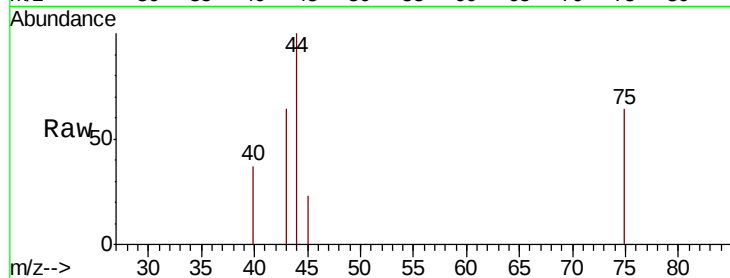
ClientSampled :

Tot Ion: 43 Resp: 767

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.35 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.02 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

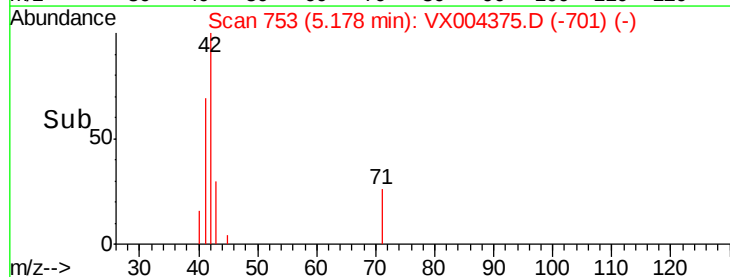
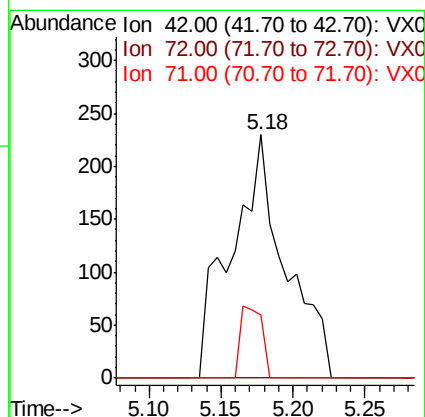
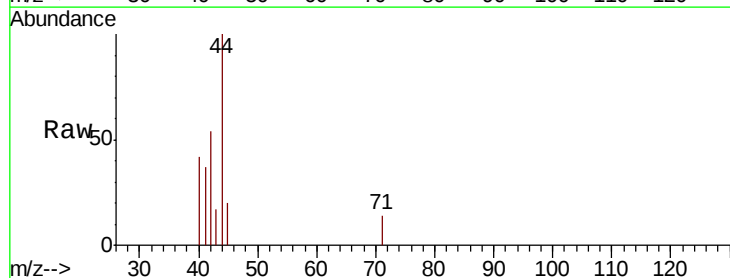
Tgt Ion: 42 Resp: 597

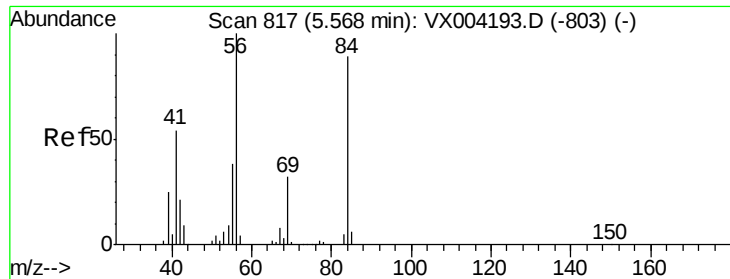
Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

71 11.7 34.5 51.7#

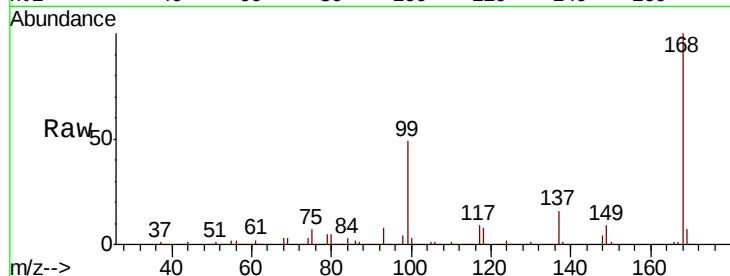




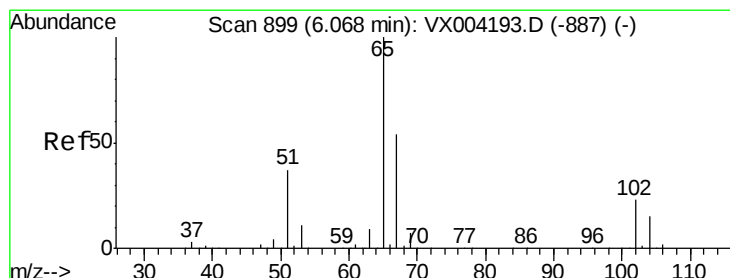
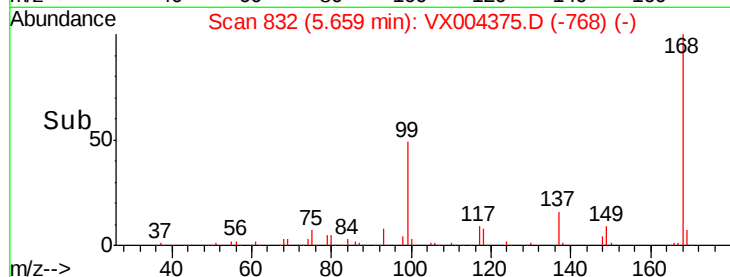
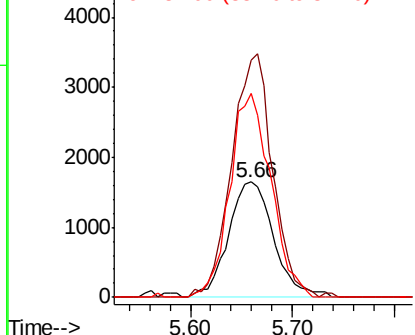
#31
Cyclohexane
Concen: 0.93 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.09 min
Lab File: VX004375.D
Acq: 05 Sep 2018 17:34

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 5079
Ion Ratio Lower Upper
56 100
69 205.9 25.4 38.2#
84 177.2 71.4 107.2#

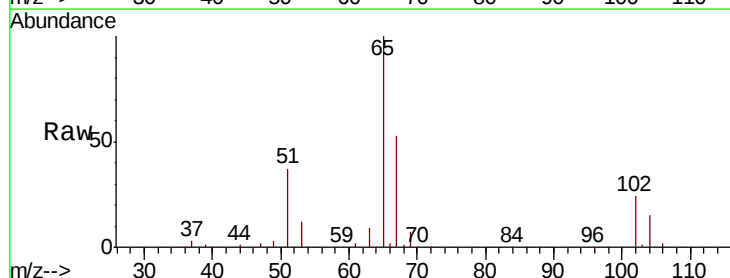


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

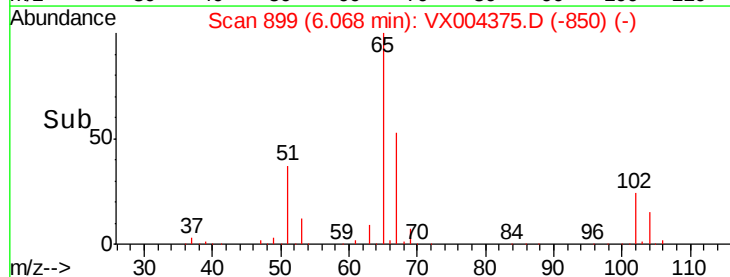
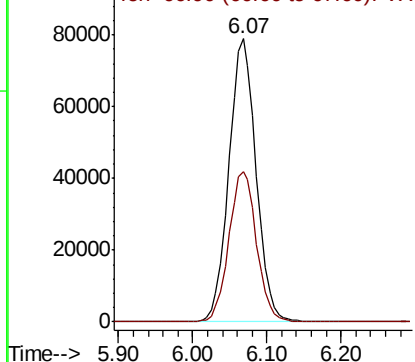


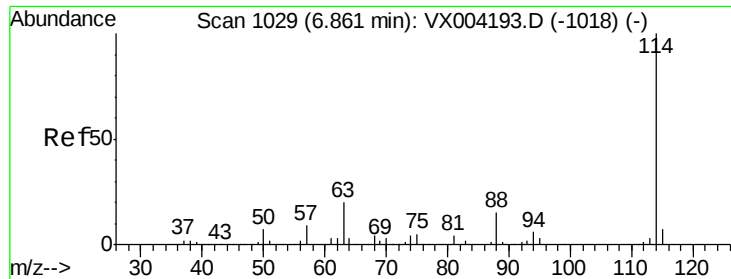
#33
1,2-Dichloroethane-d4
Concen: 51.55 ug/l
RT: 6.07 min Scan# 899
Delta R.T. -0.00 min
Lab File: VX004375.D
Acq: 05 Sep 2018 17:34

Tgt Ion: 65 Resp: 201806
Ion Ratio Lower Upper
65 100
67 53.8 0.0 106.8



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

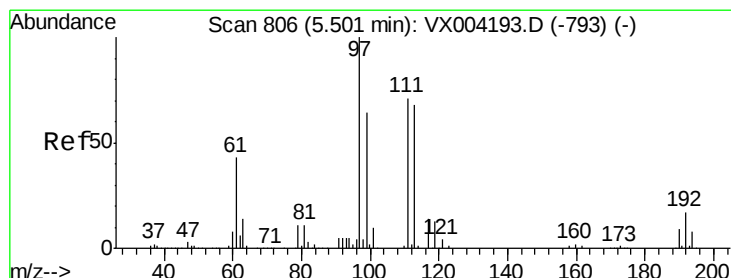
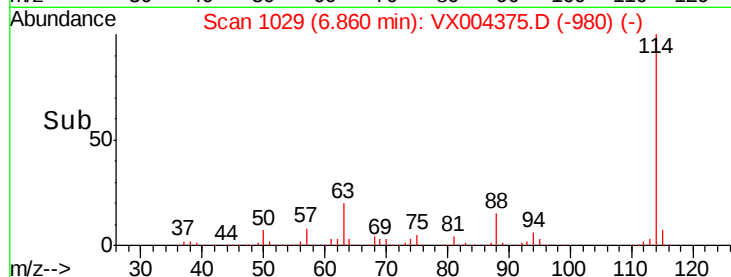
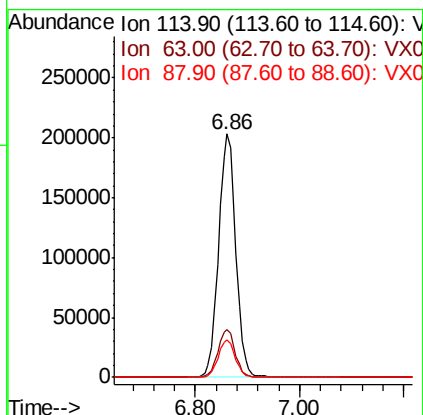
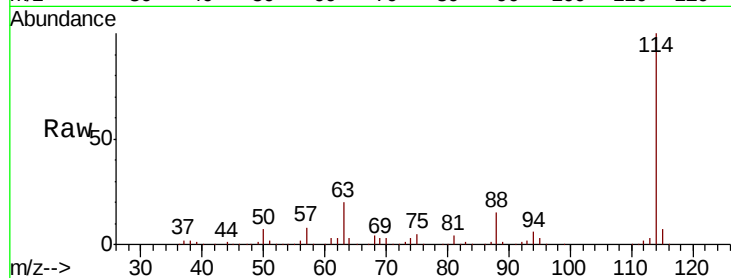




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004375.D
 Acq: 05 Sep 2018 17:34

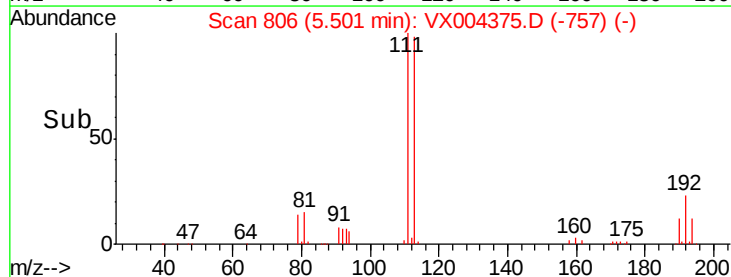
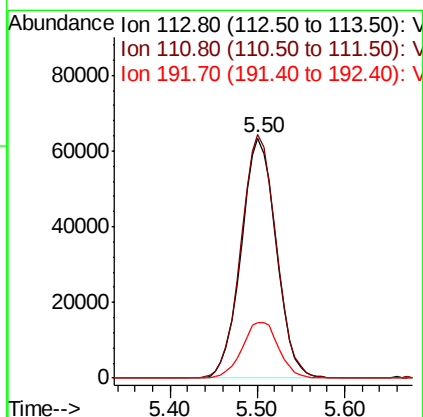
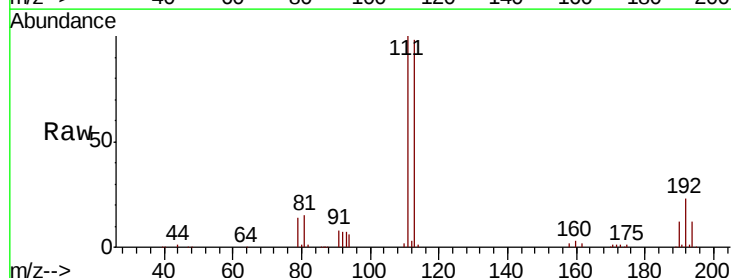
Instrument :
 MSVOA_X
 ClientSampled :

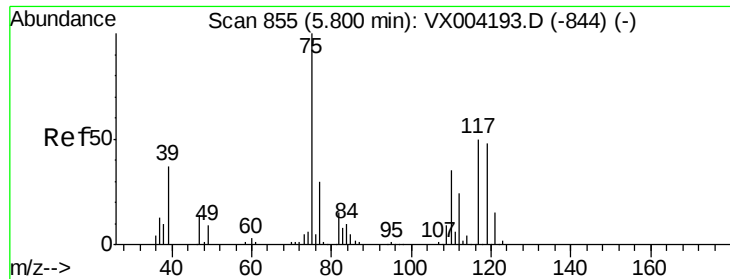
Tot Ion:114 Resp: 472569
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.0
 88 15.3 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 50.07 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004375.D
 Acq: 05 Sep 2018 17:34

Tgt Ion:113 Resp: 176034
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.4 123.6
 192 24.3 19.4 29.2





#36

1,1-Dichloropropene

Concen: 3.73 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

Instrument :

MSVOA_X

ClientSampleId :

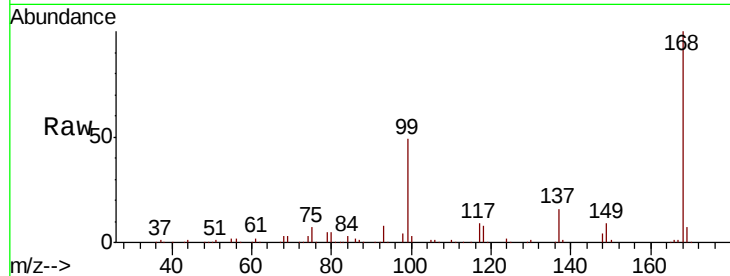
Tot Ion: 75 Resp: 19801

Ion Ratio Lower Upper

75 100

110 8.4 18.0 54.0#

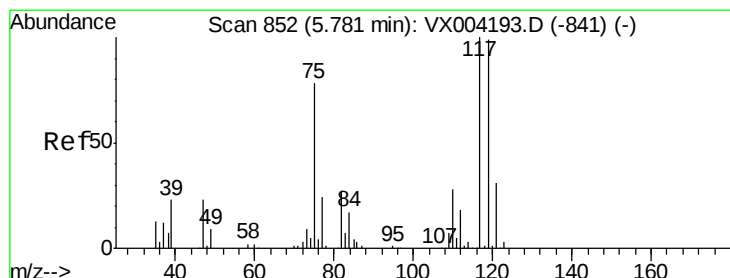
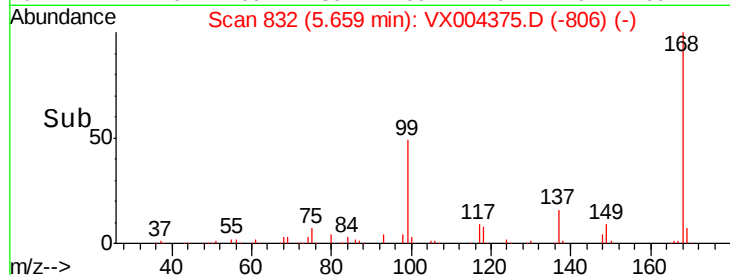
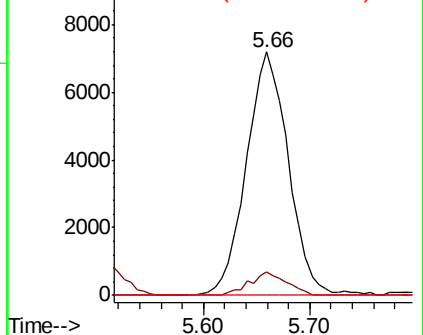
77 0.0 24.6 36.8#



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: 5.17 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

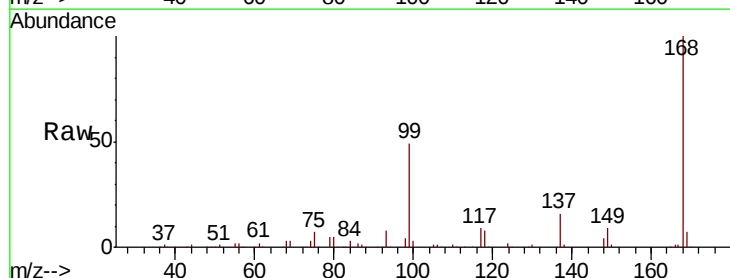
Tgt Ion: 117 Resp: 25825

Ion Ratio Lower Upper

117 100

119 5.5 78.8 118.2#

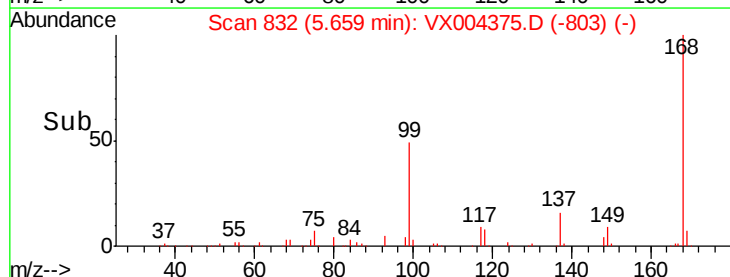
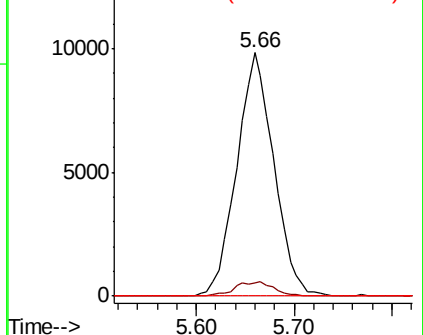
121 0.0 24.9 37.3#

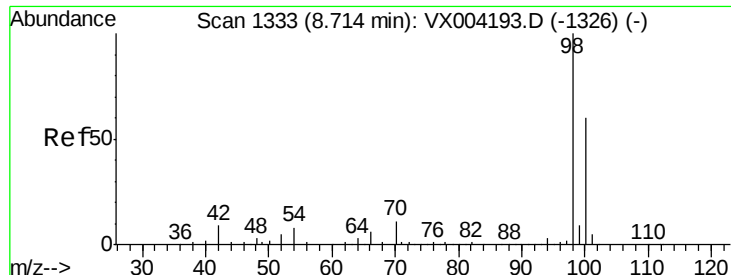


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 50.16 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

Instrument :

MSVOA_X

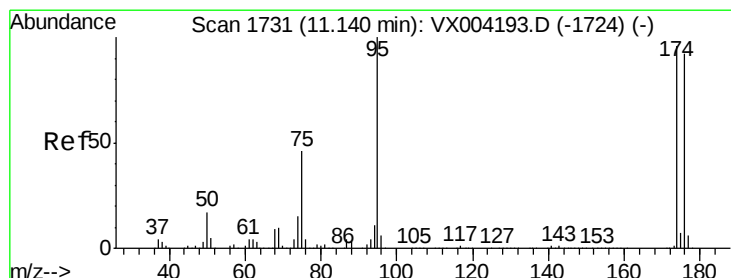
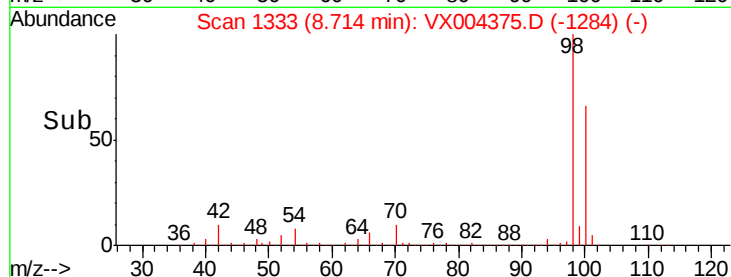
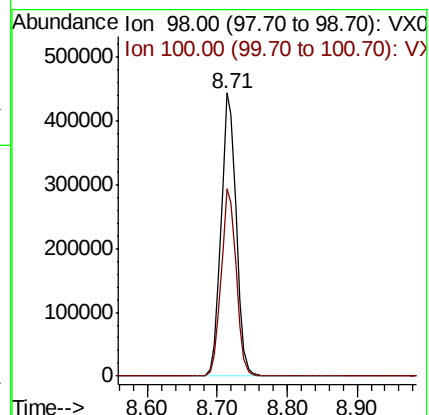
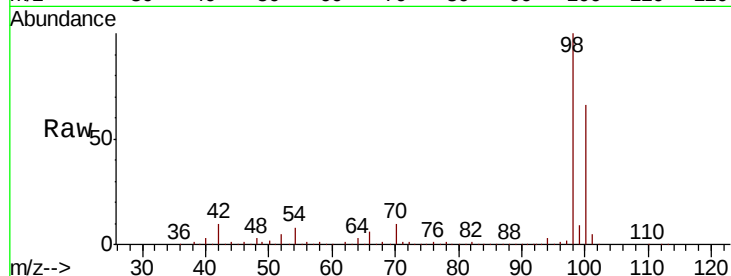
ClientSampleId :

Tot Ion: 98 Resp: 665658

Ion Ratio Lower Upper

98 100

100 65.8 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 48.42 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

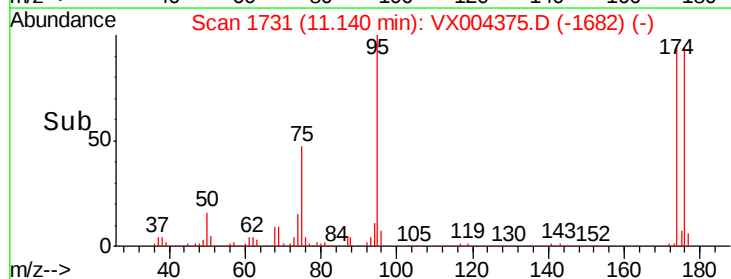
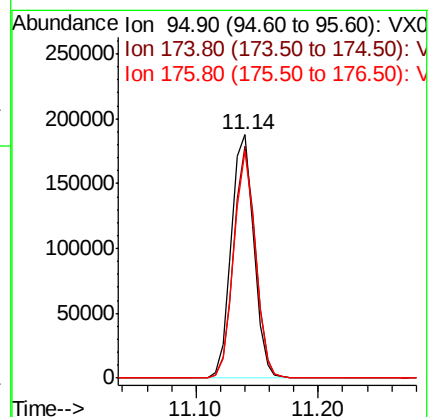
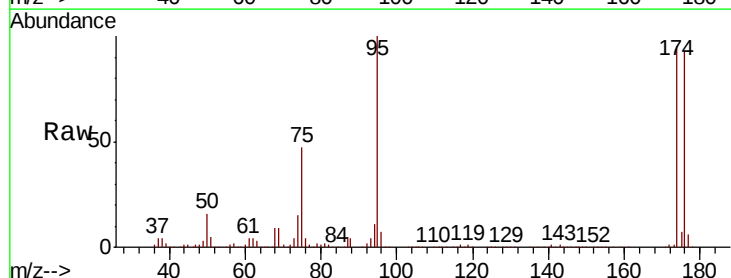
Tgt Ion: 95 Resp: 239736

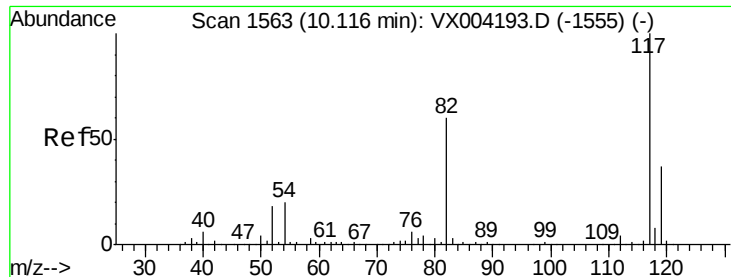
Ion Ratio Lower Upper

95 100

174 91.2 0.0 185.2

176 88.8 0.0 178.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

Instrument :

MSVOA_X

ClientSampleId :

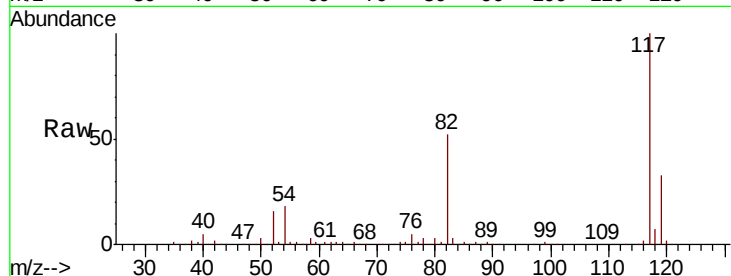
Tot Ion:117 Resp: 443317

Ion Ratio Lower Upper

117 100

82 52.4 47.8 71.6

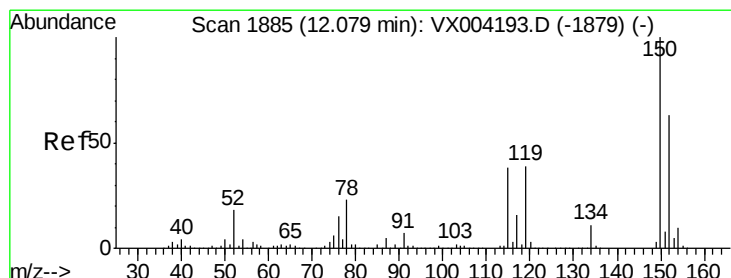
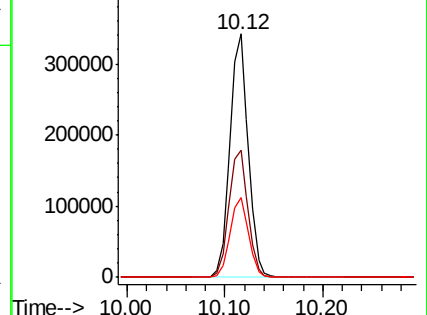
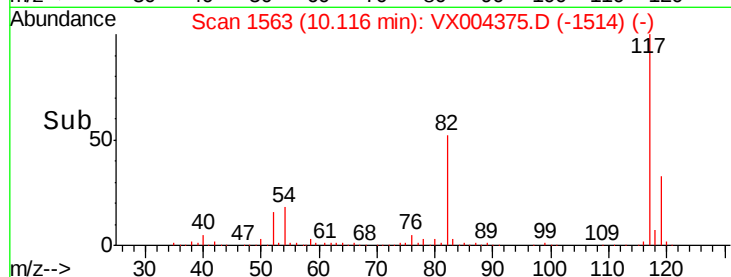
119 32.6 29.3 43.9



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# 1885

Delta R.T. -0.00 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

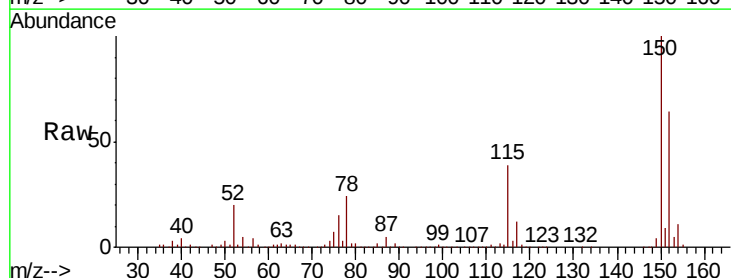
Tgt Ion:152 Resp: 234590

Ion Ratio Lower Upper

152 100

115 56.1 39.0 117.0

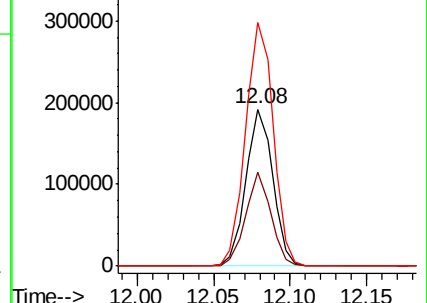
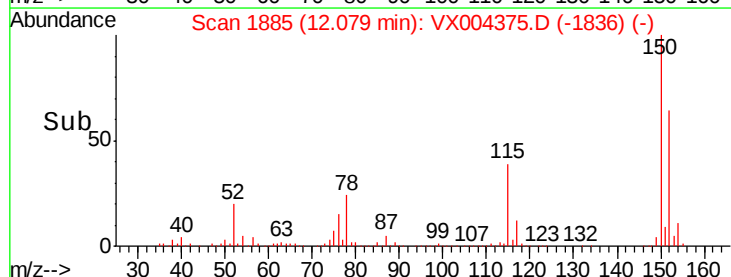
150 160.1 0.0 351.0

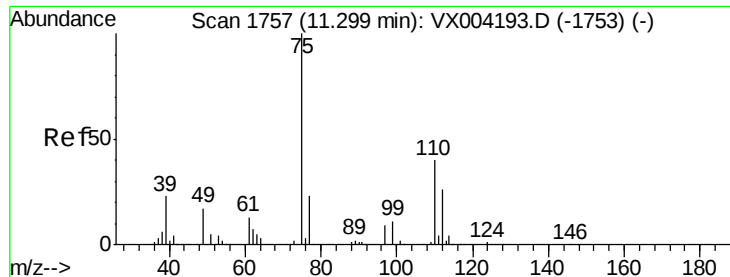


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.52 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

Instrument :

MSVOA_X

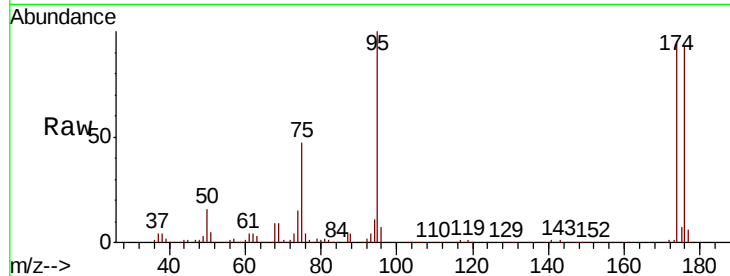
ClientSampleId :

Tot Ion: 75 Resp: 112217

Ion Ratio Lower Upper

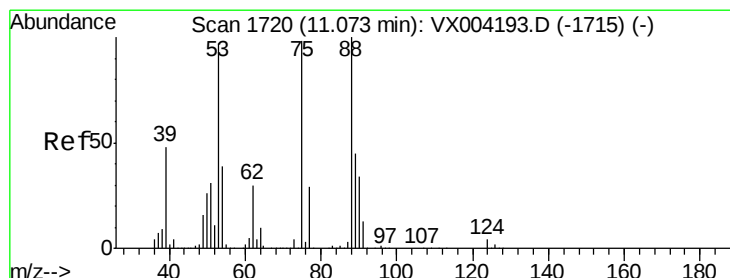
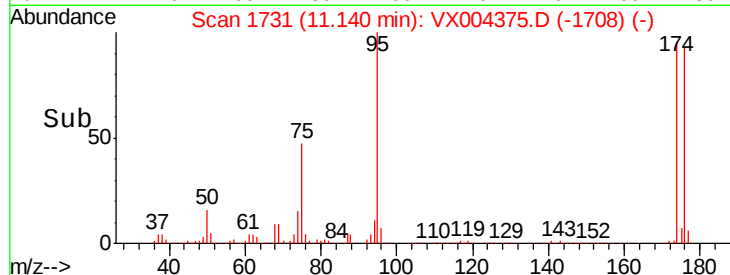
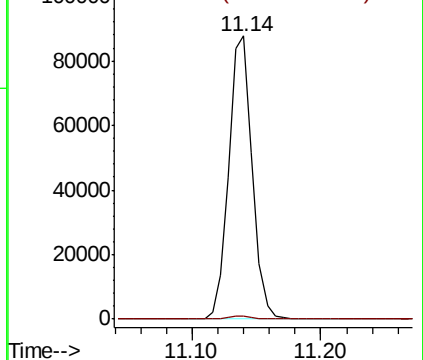
75 100

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: 76.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

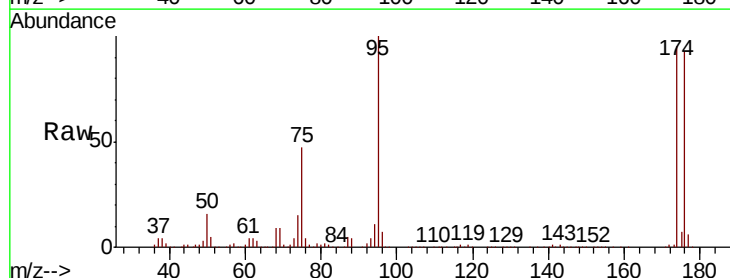
Tgt Ion: 75 Resp: 112217

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

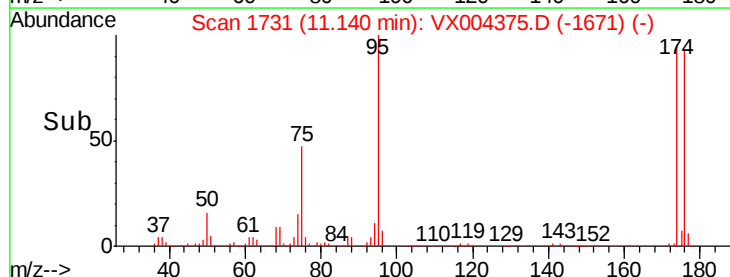
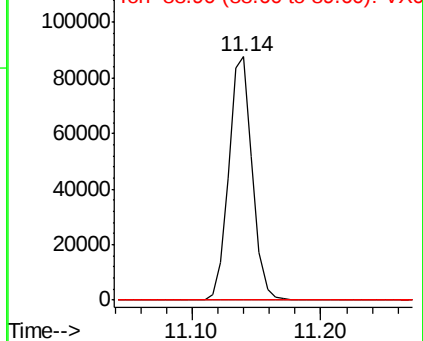
89 0.0 37.2 55.8#

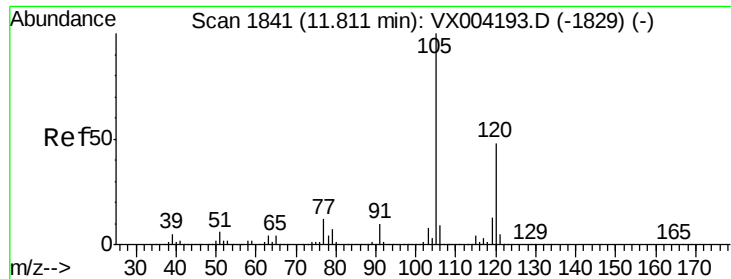


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#84

1,2,4-Trimethylbenzene

Concen: 0.50 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

Instrument :

MSVOA_X

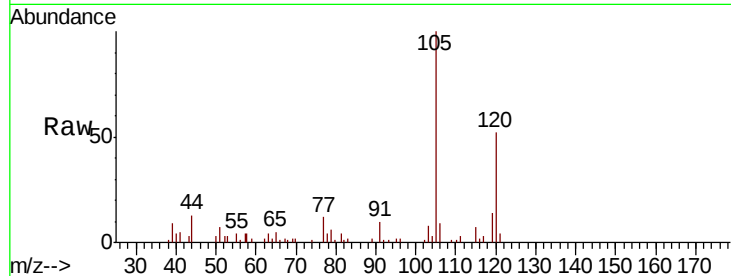
ClientSampleId :

Tot Ion:105 Resp: 6508

Ion Ratio Lower Upper

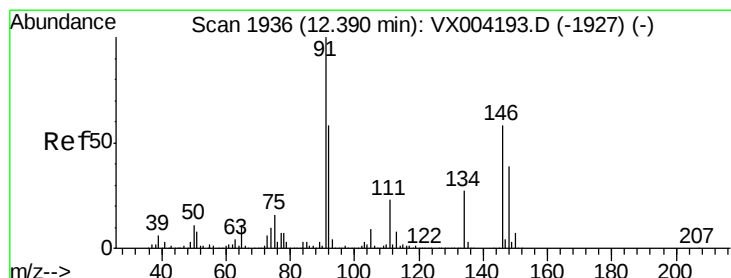
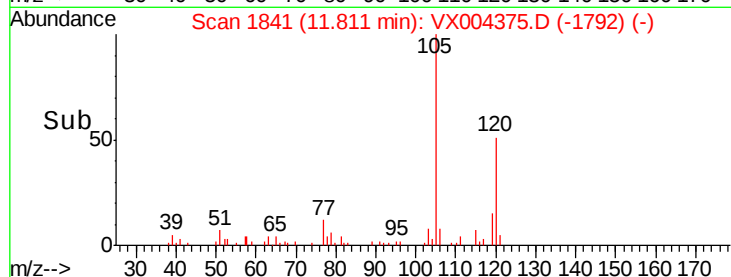
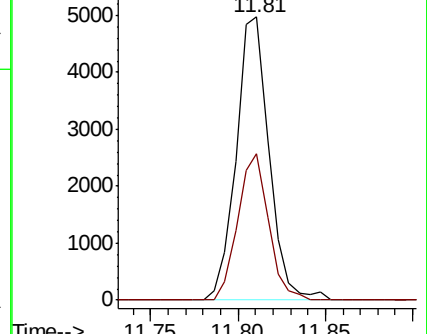
105 100

120 48.0 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#89

n-Butylbenzene

Concen: 0.27 ug/l

RT: 12.39 min Scan# 1936

Delta R.T. -0.00 min

Lab File: VX004375.D

Acq: 05 Sep 2018 17:34

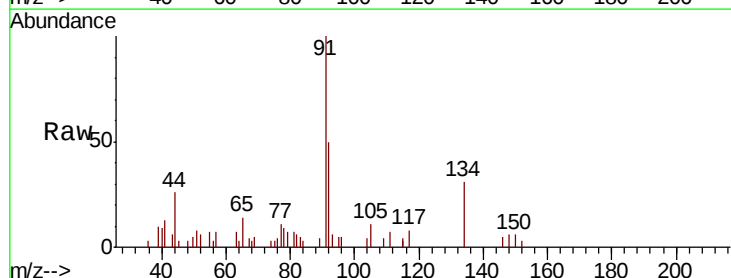
Tgt Ion: 91 Resp: 3014

Ion Ratio Lower Upper

91 100

92 43.4 27.3 81.9

134 43.7 13.6 40.7#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V

