

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081718\
 Data File : VX004126.D
 Acq On : 17 Aug 2018 12:36
 Operator : JC/MD
 Sample : J4522-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 18 01:30:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	275715	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	426088	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	389326	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	213392	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	202430	52.11	ug/l	0.00
Spiked Amount			Recovery	=	104.22%	
35) Dibromofluoromethane	5.50	113	169825	53.25	ug/l	0.00
Spiked Amount			Recovery	=	106.50%	
50) Toluene-d8	8.72	98	603172	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	
62) 4-Bromofluorobenzene	11.14	95	195204	41.63	ug/l	0.00
Spiked Amount			Recovery	=	83.26%	

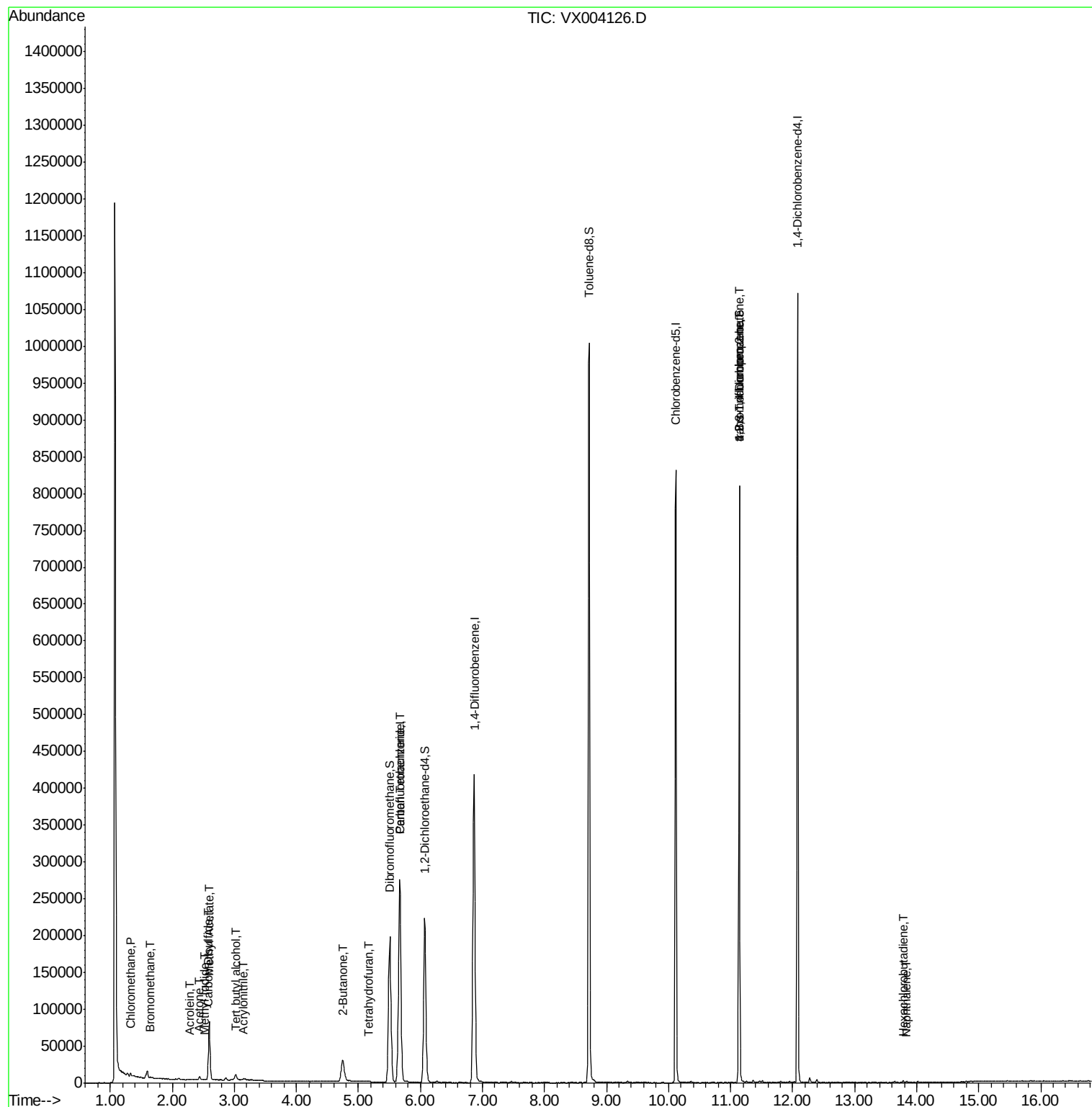
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	5629	1.71	ug/l	96
5) Bromomethane	1.65	94	941	0.34	ug/l	98
6) Chloroethane	1.73	64	334	Below Cal	#	78
10) Methyl Iodide	2.52	142	1260	5.35	ug/l #	91
11) Tert butyl alcohol	3.03	59	4429	5.66	ug/l #	86
13) Acrolein	2.28	56	105	11.14	ug/l #	15
15) Acrylonitrile	3.14	53	767	0.39	ug/l	90
16) Acetone	2.44	43	4769	2.36	ug/l	98
17) Carbon Disulfide	2.57	76	2253	0.27	ug/l	97
18) Methyl Acetate	2.59	43	21458	4.78	ug/l #	52
20) Methylene Chloride	2.86	84	1453	Below Cal	#	87
25) 2-Butanone	4.75	43	2078	0.63	ug/l #	80
29) Tetrahydrofuran	5.16	42	960	0.57	ug/l #	69
38) Carbon Tetrachloride	5.67	117	23852	5.06	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	90427	21.13	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	90427	65.41	ug/l #	10
94) Hexachlorobutadiene	13.78	225	564	0.24	ug/l	97
95) Naphthalene	13.83	128	1142	1.22	ug/l #	95

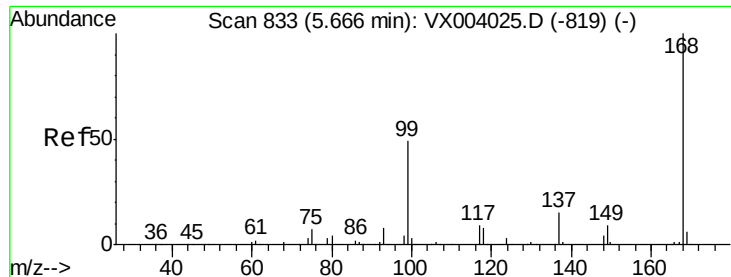
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004126.D

Acq: 17 Aug 2018 12:36

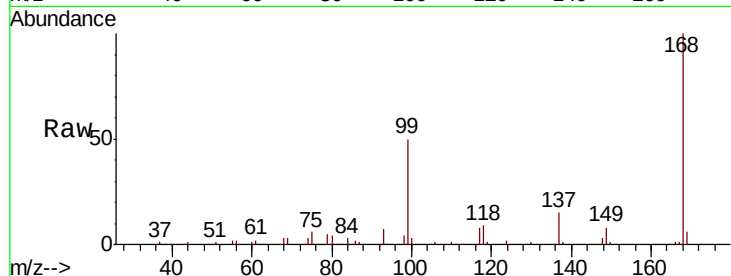
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 275715

Ion Ratio Lower Upper

168 100

99 50.3 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

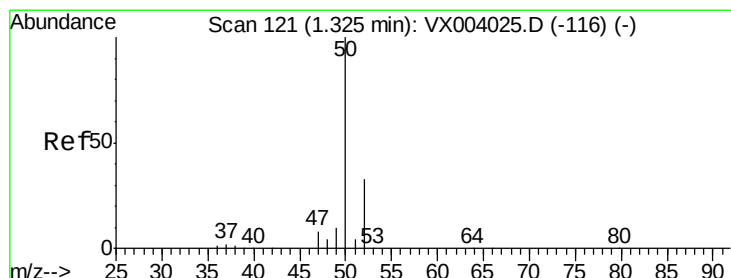
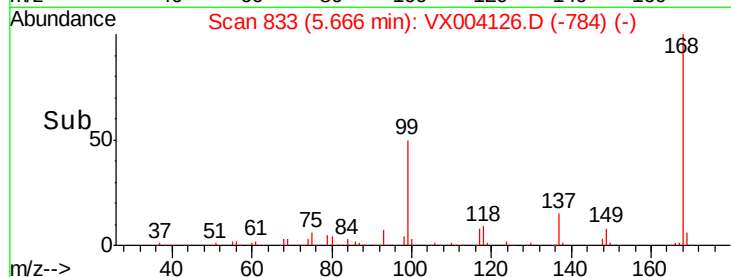
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 1.71 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004126.D

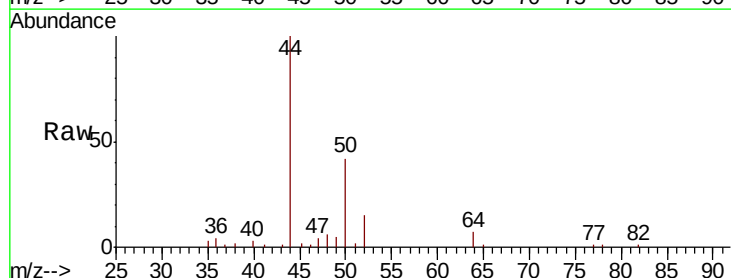
Acq: 17 Aug 2018 12:36

Tgt Ion: 50 Resp: 5629

Ion Ratio Lower Upper

50 100

52 35.3 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

3000

2500

2000

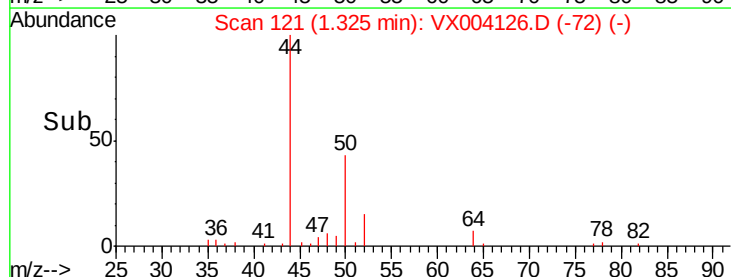
1500

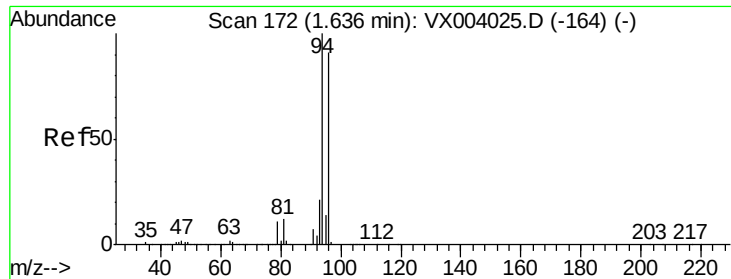
1000

500

0

Time--> 1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.34 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004126.D

Acq: 17 Aug 2018 12:36

Instrument :

MSVOA_X

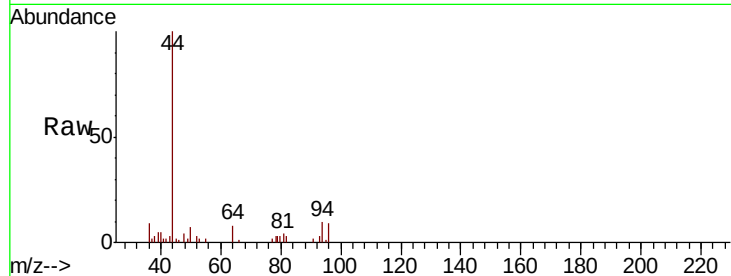
ClientSampled :

Tot Ion: 94 Resp: 941

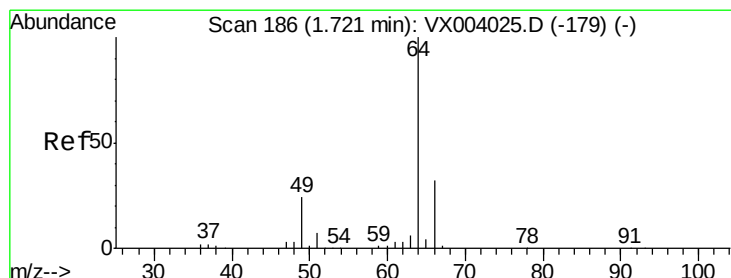
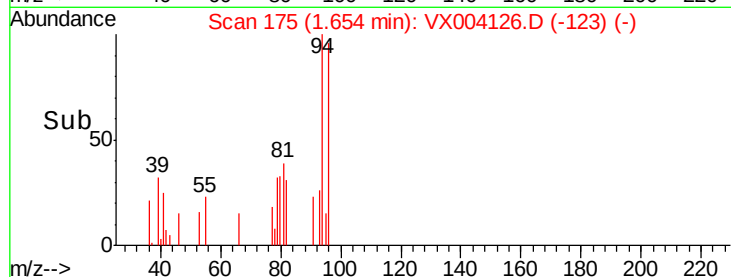
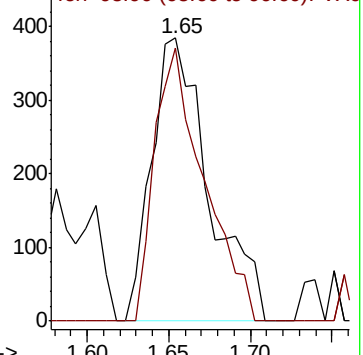
Ion Ratio Lower Upper

94 100

96 96.4 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX004126.D

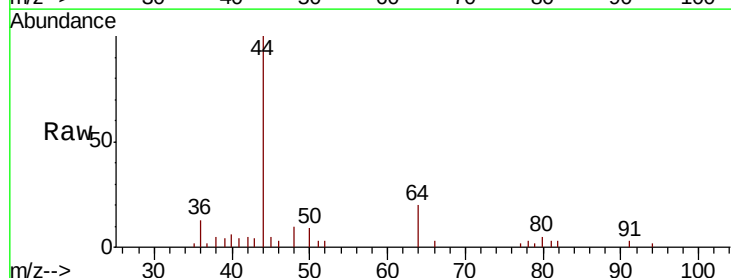
Acq: 17 Aug 2018 12:36

Tgt Ion: 64 Resp: 334

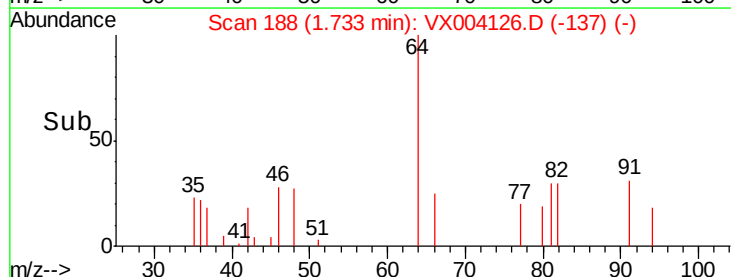
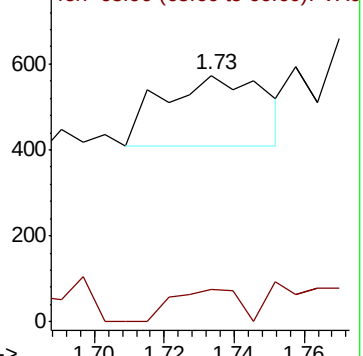
Ion Ratio Lower Upper

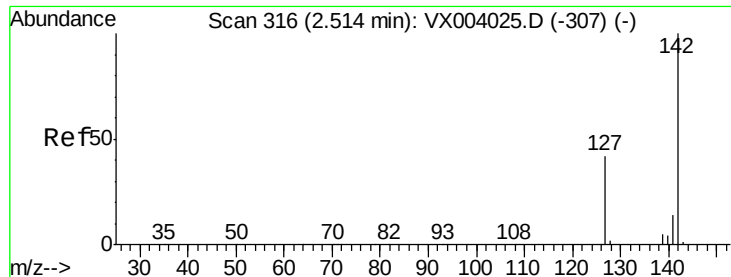
64 100

66 45.5 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

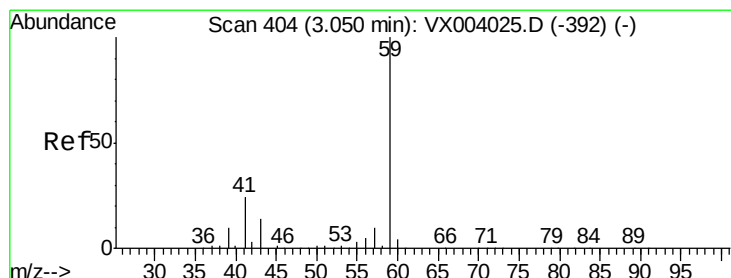
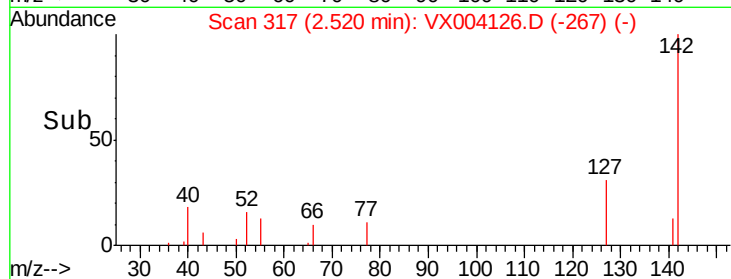
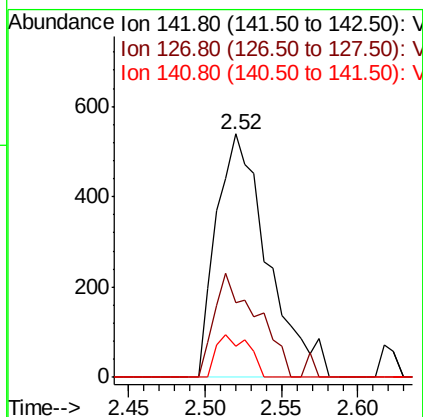
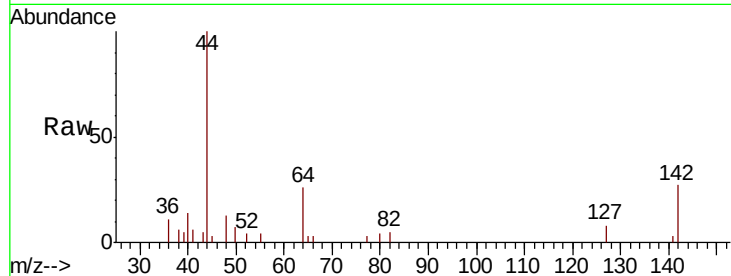




#10
Methyl Iodide
Concen: 5.35 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004126.D
Acq: 17 Aug 2018 12:36

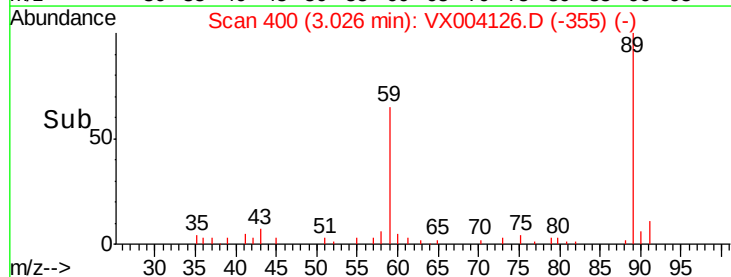
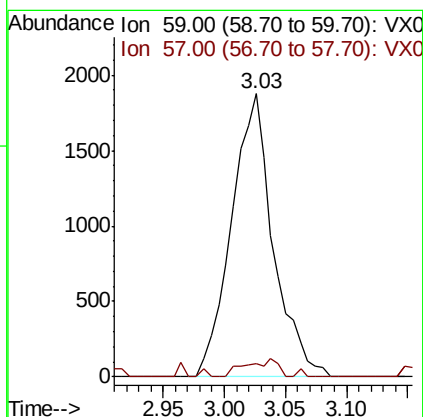
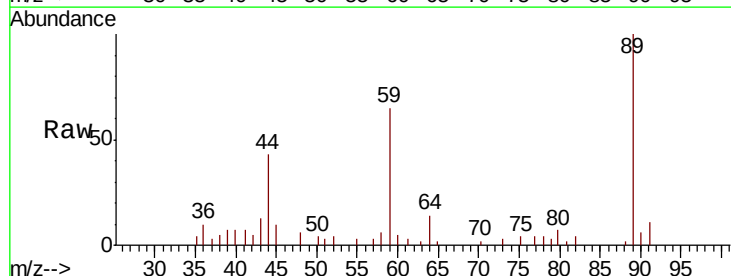
Instrument :
MSVOA_X
ClientSampled :

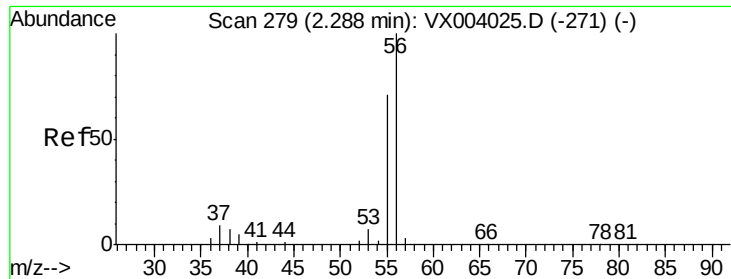
Tot Ion:142 Resp: 1260
Ion Ratio Lower Upper
142 100
127 35.8 33.1 49.7
141 11.0 11.1 16.7#



#11
Tert butyl alcohol
Concen: 5.66 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.02 min
Lab File: VX004126.D
Acq: 17 Aug 2018 12:36

Tgt Ion: 59 Resp: 4429
Ion Ratio Lower Upper
59 100
57 4.9 8.1 12.1#

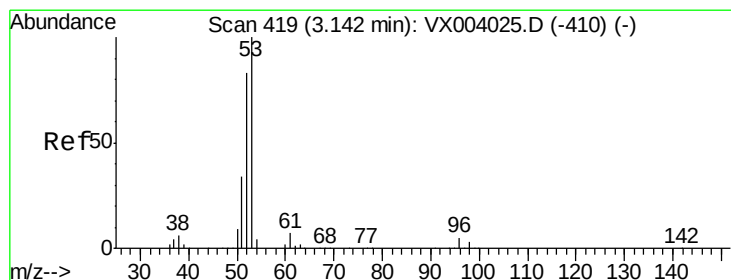
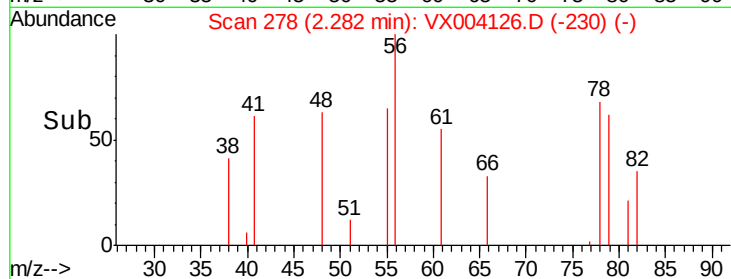
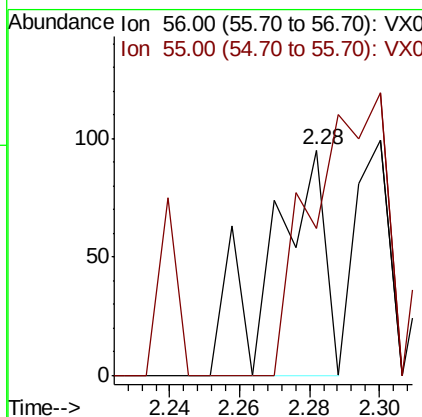
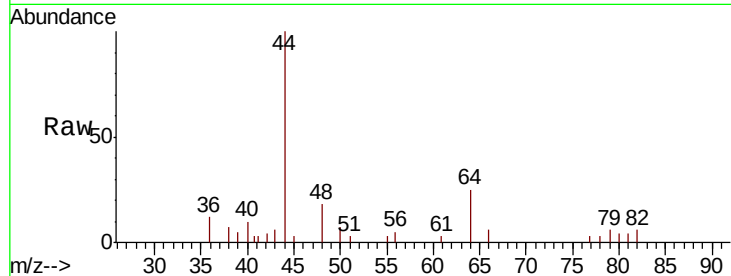




#13
 Acrolein
 Concen: 11.14 ug/l
 RT: 2.28 min Scan# 278
 Delta R.T. -0.01 min
 Lab File: VX004126.D
 Acq: 17 Aug 2018 12:36

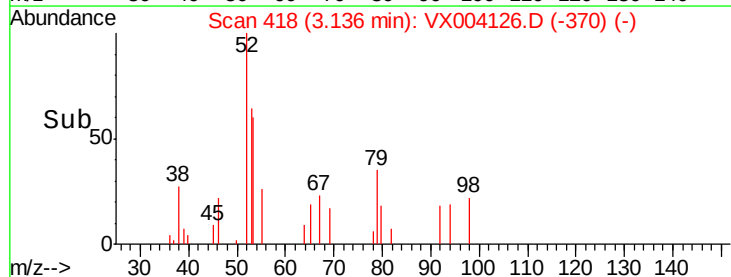
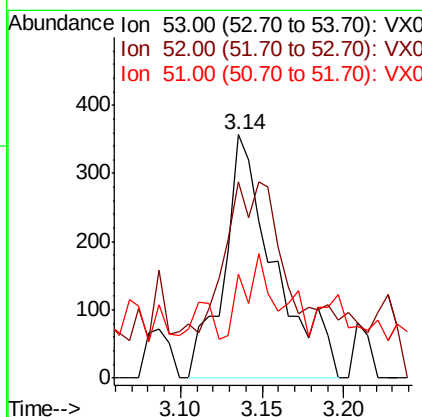
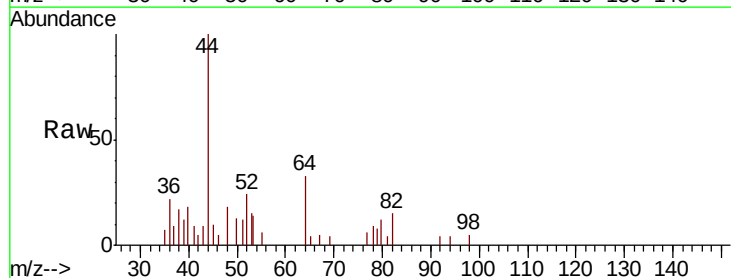
Instrument :
 MSVOA_X
 ClientSampled :

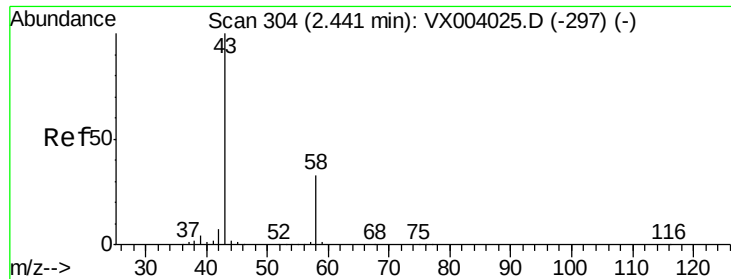
Tot Ion: 56 Resp: 105
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.1 84.1#



#15
 Acrylonitrile
 Concen: 0.39 ug/l
 RT: 3.14 min Scan# 418
 Delta R.T. -0.01 min
 Lab File: VX004126.D
 Acq: 17 Aug 2018 12:36

Tgt Ion: 53 Resp: 767
 Ion Ratio Lower Upper
 53 100
 52 92.0 65.3 97.9
 51 31.8 27.9 41.9





#16

Acetone

Concen: 2.36 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004126.D

Acq: 17 Aug 2018 12:36

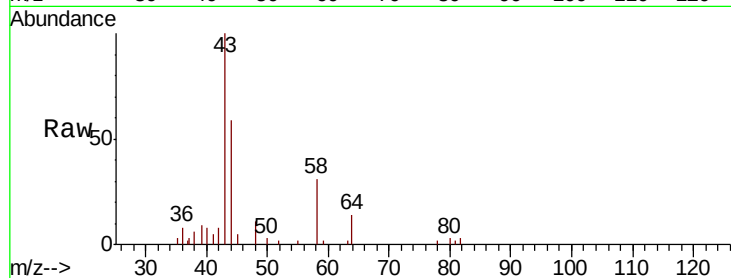
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 4769

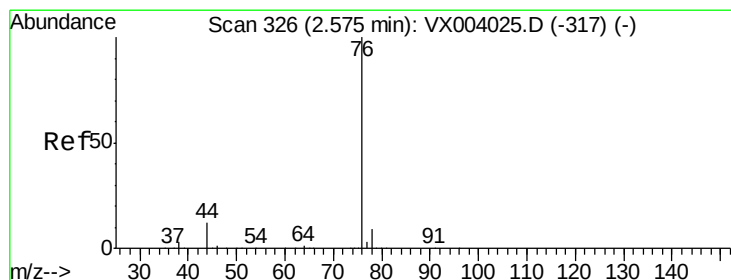
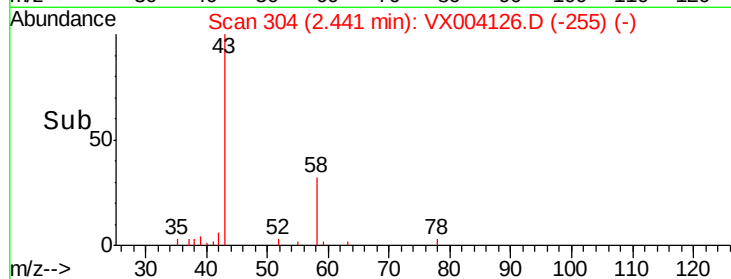
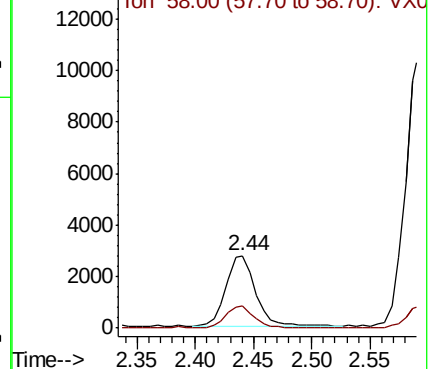
Ion Ratio Lower Upper

43 100

58 31.6 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.27 ug/l

RT: 2.57 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX004126.D

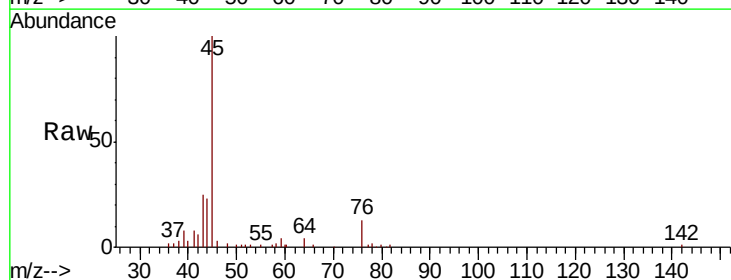
Acq: 17 Aug 2018 12:36

Tgt Ion: 76 Resp: 2253

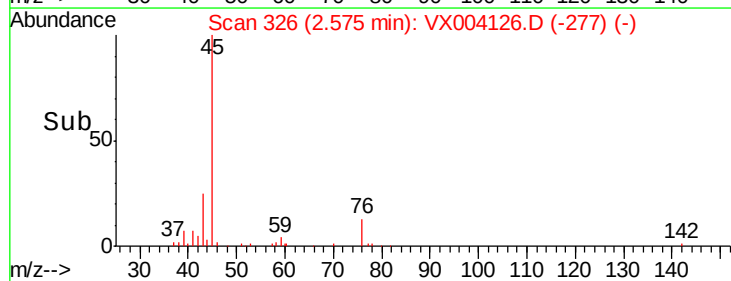
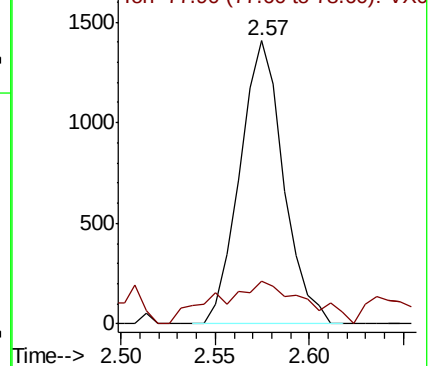
Ion Ratio Lower Upper

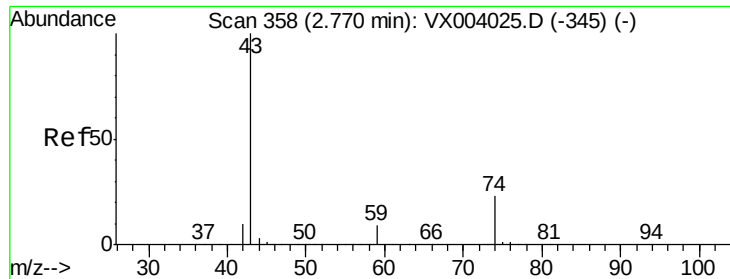
76 100

78 10.6 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0
Ion 77.90 (77.60 to 78.60): VX0

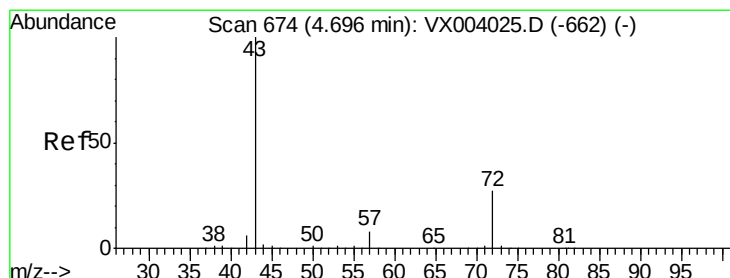
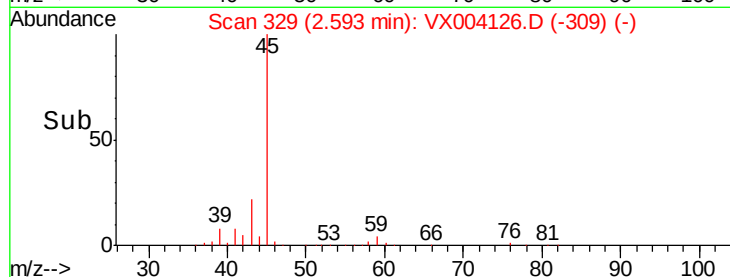
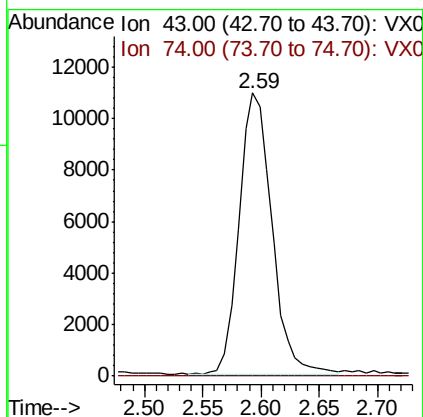
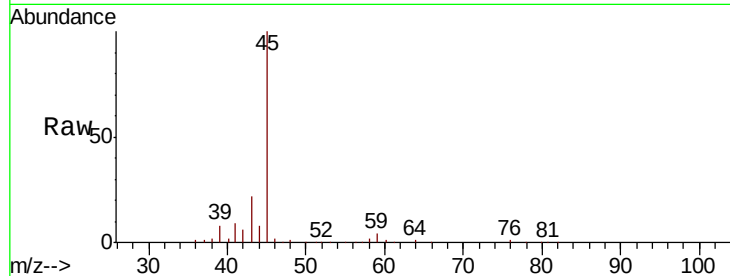




#18
Methyl Acetate
Concen: 4.78 ug/l
RT: 2.59 min Scan# 329
Delta R.T. -0.18 min
Lab File: VX004126.D
Acq: 17 Aug 2018 12:36

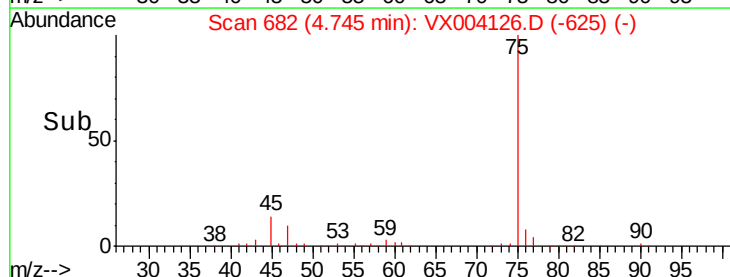
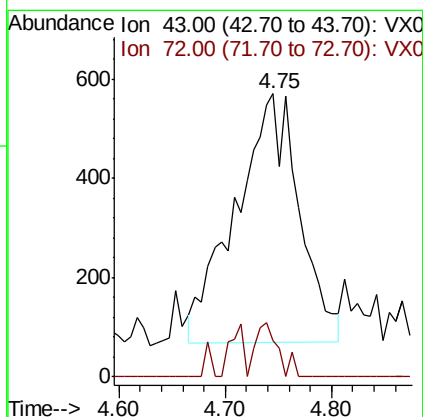
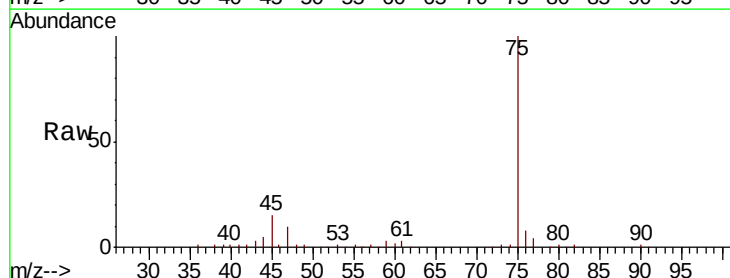
Instrument :
MSVOA_X
ClientSampled :

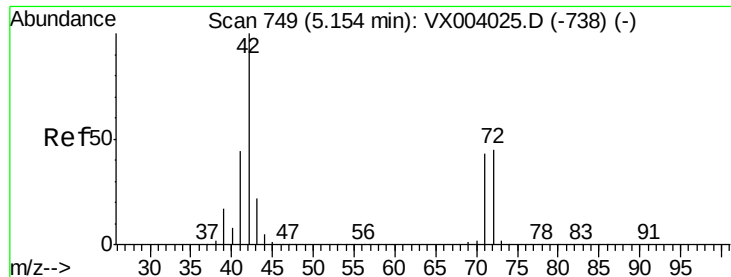
Tot Ion: 43 Resp: 21458
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#25
2-Butanone
Concen: 0.63 ug/l
RT: 4.75 min Scan# 682
Delta R.T. 0.05 min
Lab File: VX004126.D
Acq: 17 Aug 2018 12:36

Tgt Ion: 43 Resp: 2078
Ion Ratio Lower Upper
43 100
72 16.6 21.4 32.0#

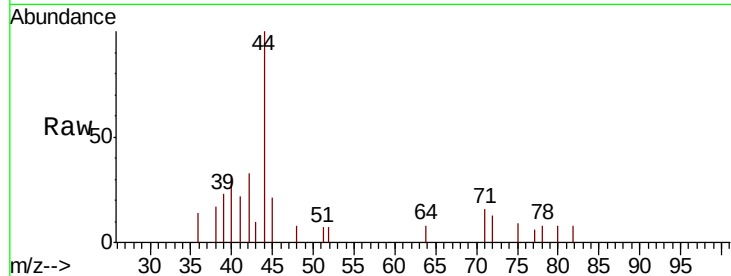




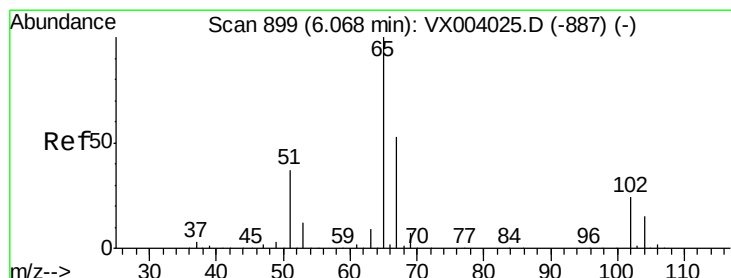
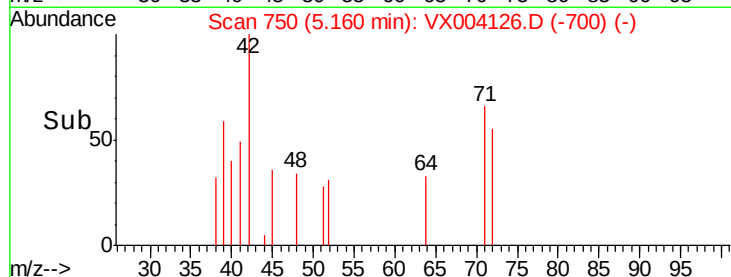
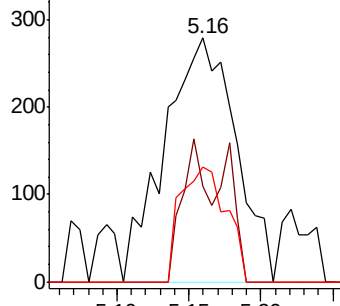
#29
Tetrahydrofuran
Concen: 0.57 ug/l
RT: 5.16 min Scan# 750
Delta R.T. 0.01 min
Lab File: VX004126.D
Acq: 17 Aug 2018 12:36

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 42 Resp: 960
Ion Ratio Lower Upper
42 100
72 20.5 37.7 56.5#
71 30.4 35.0 52.6#

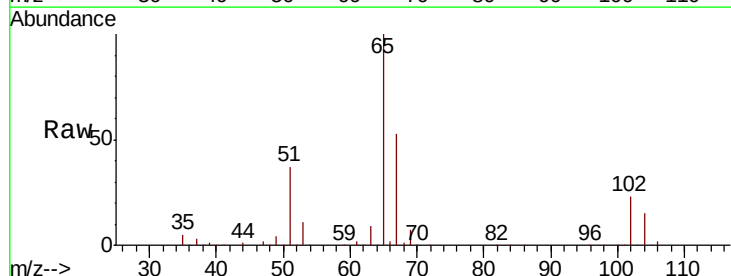


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

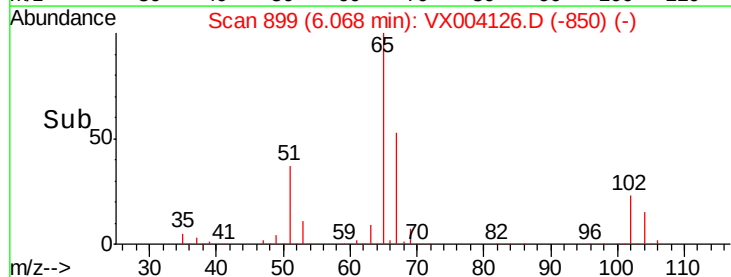
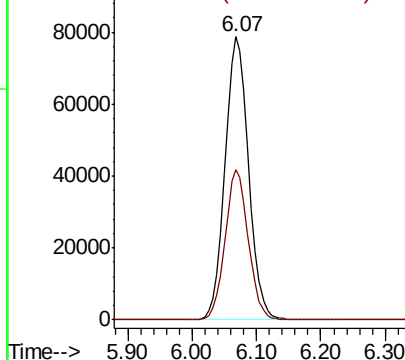


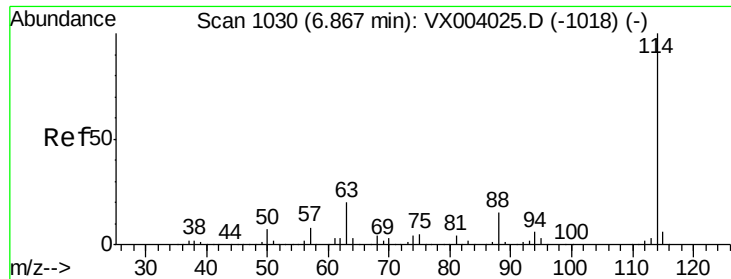
#33
1,2-Dichloroethane-d4
Concen: 52.11 ug/l
RT: 6.07 min Scan# 899
Delta R.T. -0.00 min
Lab File: VX004126.D
Acq: 17 Aug 2018 12:36

Tgt Ion: 65 Resp: 202430
Ion Ratio Lower Upper
65 100
67 52.3 0.0 105.8



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: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX004126.D

Acq: 17 Aug 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

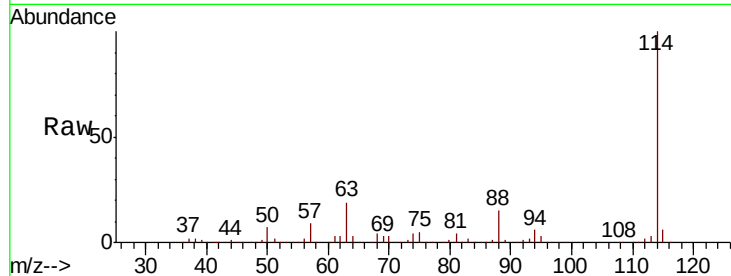
Tot Ion:114 Resp: 426088

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.0

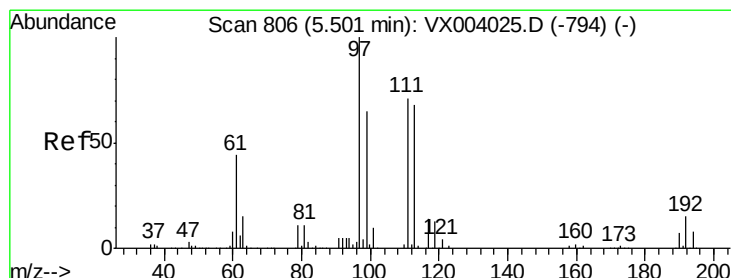
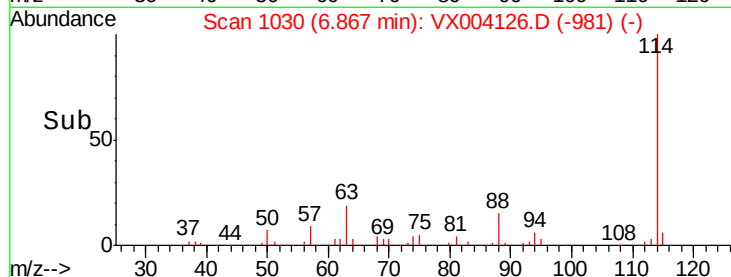
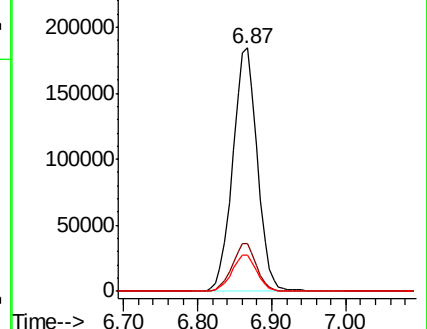
88 15.0 0.0 32.0



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: 53.25 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004126.D

Acq: 17 Aug 2018 12:36

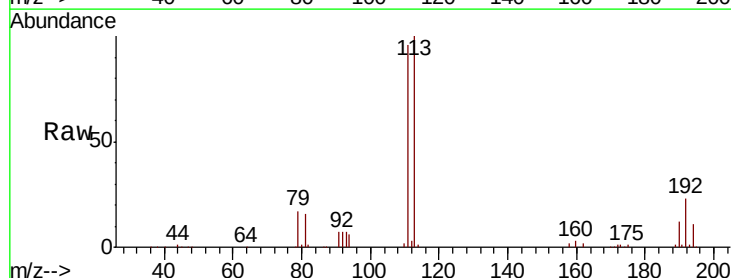
Tgt Ion:113 Resp: 169825

Ion Ratio Lower Upper

113 100

111 99.9 82.0 123.0

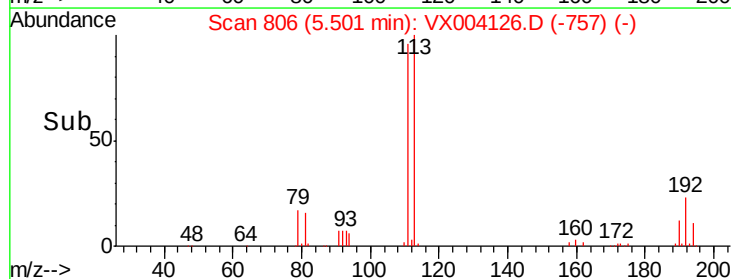
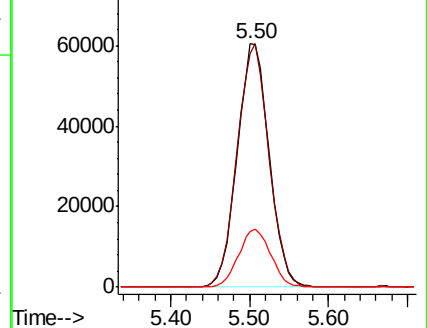
192 24.0 19.0 28.4

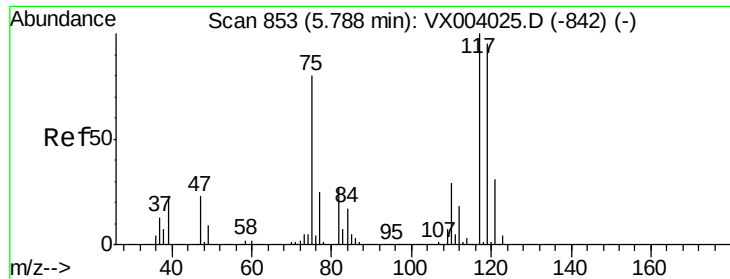


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.06 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004126.D

Acq: 17 Aug 2018 12:36

Instrument :

MSVOA_X

ClientSampled :

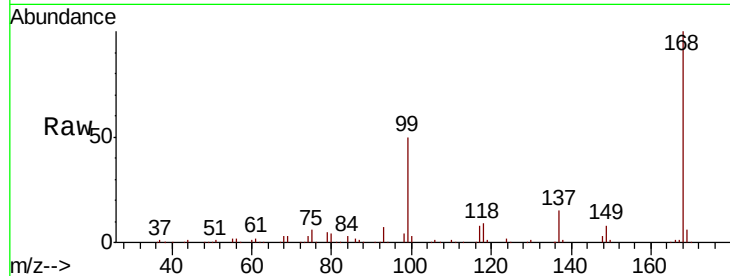
Tot Ion:117 Resp: 23852

Ion Ratio Lower Upper

117 100

119 7.0 79.5 119.3#

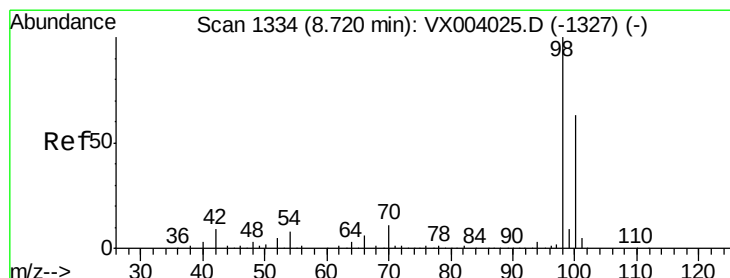
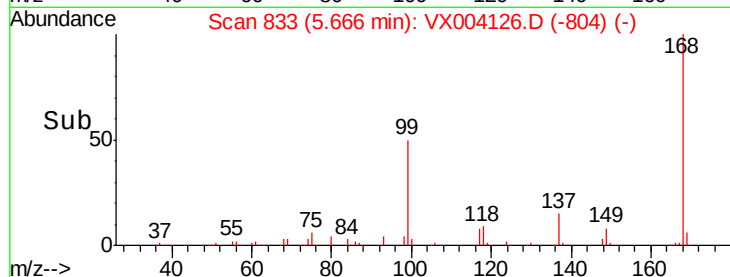
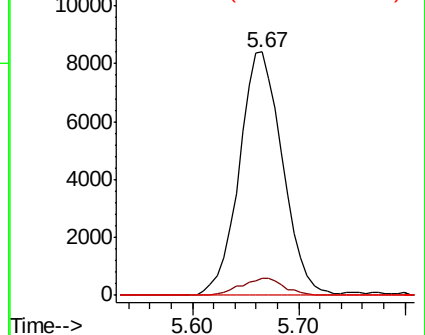
121 0.0 25.0 37.4#



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: 46.65 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004126.D

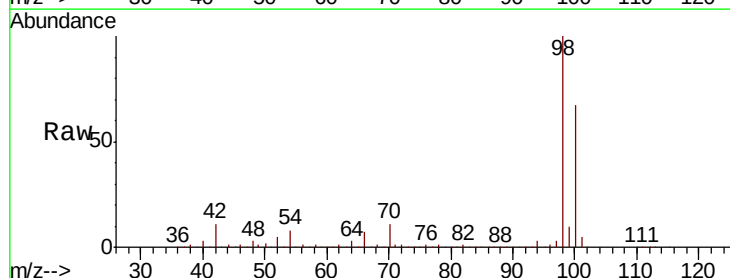
Acq: 17 Aug 2018 12:36

Tgt Ion: 98 Resp: 603172

Ion Ratio Lower Upper

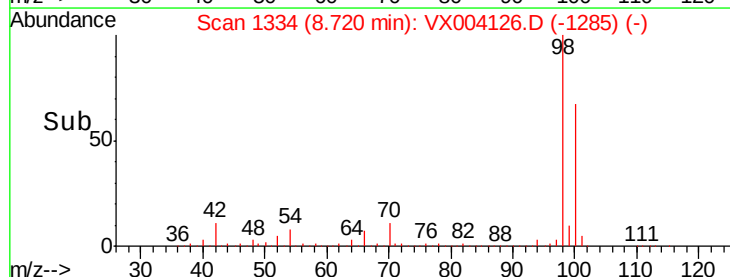
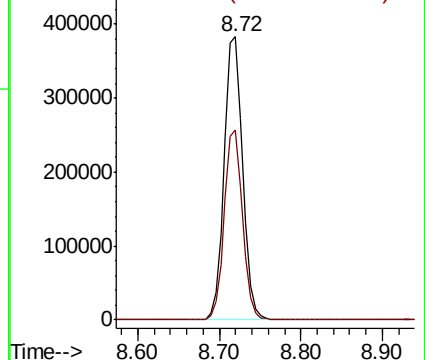
98 100

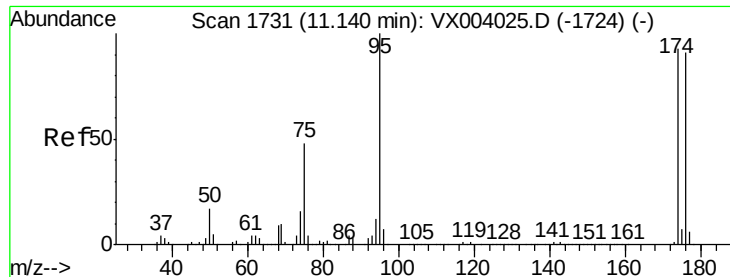
100 66.3 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

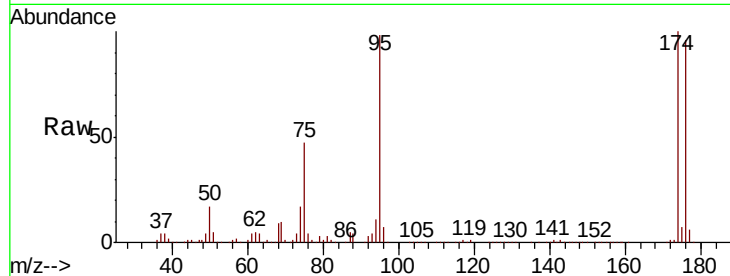




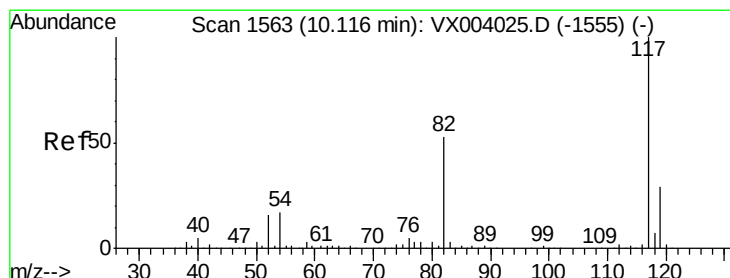
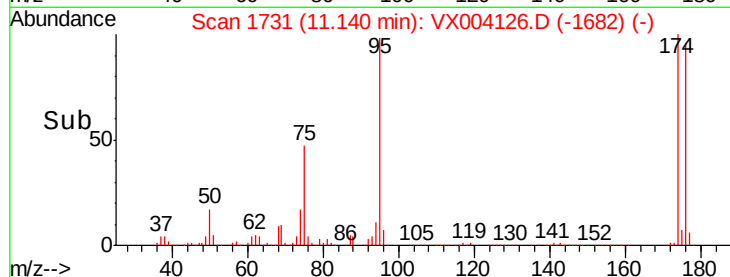
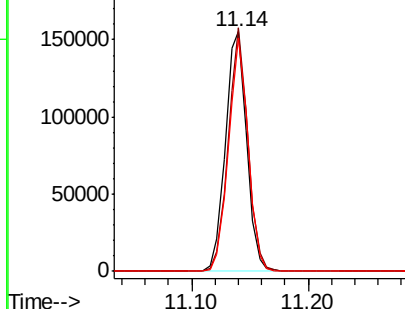
#62
4-Bromofluorobenzene
Concen: 41.63 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004126.D
Acq: 17 Aug 2018 12:36

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	95	Resp	195204
Ion	Ratio	Lower	Upper
95	100		
174	94.6	0.0	182.8
176	90.8	0.0	179.0

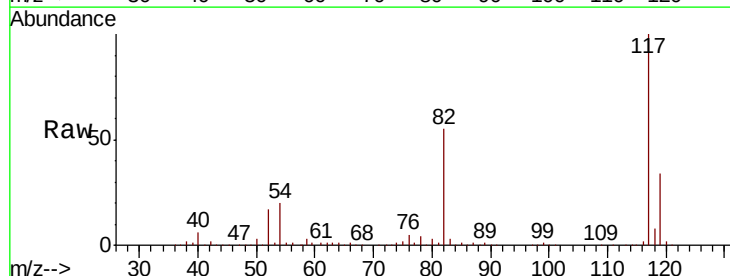


Abundance Ion 94.90 (94.60 to 95.60): VX004126.D (-1724) (-)
Ion 173.80 (173.50 to 174.50): VX004126.D (-1724) (-)
Ion 175.80 (175.50 to 176.50): VX004126.D (-1724) (-)

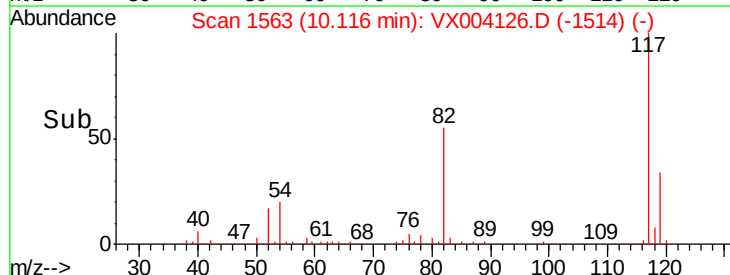
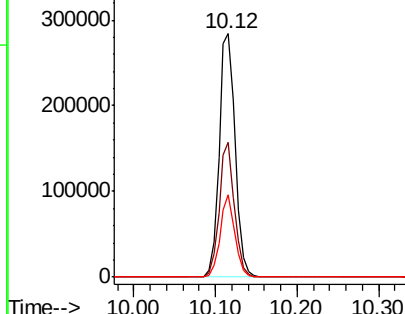


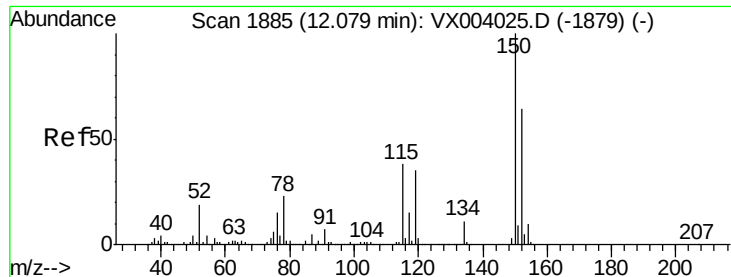
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004126.D
Acq: 17 Aug 2018 12:36

Tgt Ion	117	Resp	389326
Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.4	68.0
119	33.9	26.6	40.0



Abundance Ion 116.90 (116.60 to 117.60): VX004126.D (-1514) (-)
Ion 82.00 (81.70 to 82.70): VX004126.D (-1514) (-)
Ion 118.90 (118.60 to 119.60): VX004126.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004126.D

Acq: 17 Aug 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

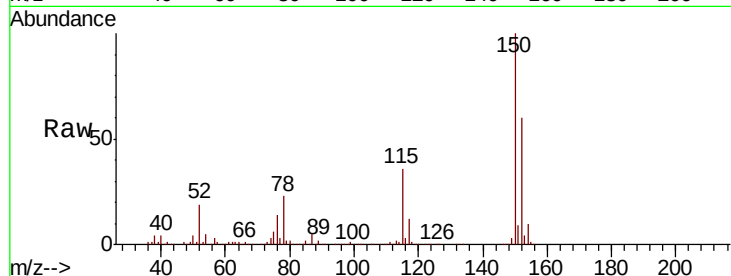
Tot Ion:152 Resp: 213392

Ion Ratio Lower Upper

152 100

115 55.3 39.1 117.3

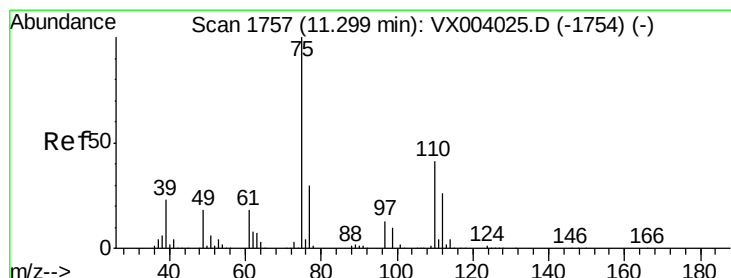
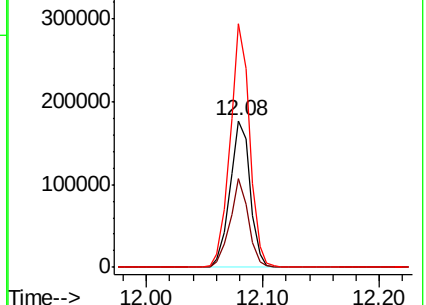
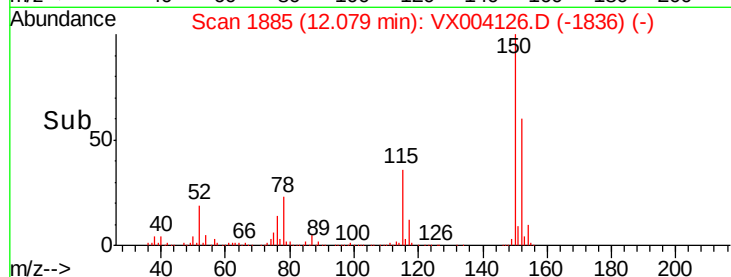
150 160.5 0.0 349.2



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: 21.13 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004126.D

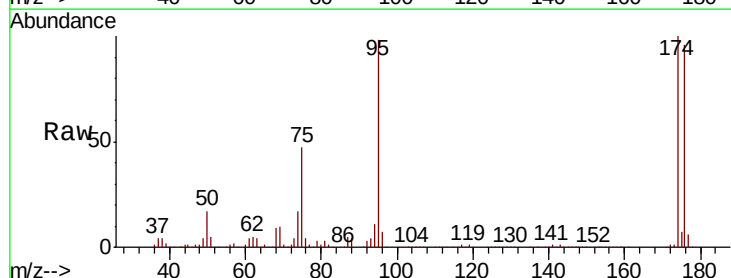
Acq: 17 Aug 2018 12:36

Tgt Ion: 75 Resp: 90427

Ion Ratio Lower Upper

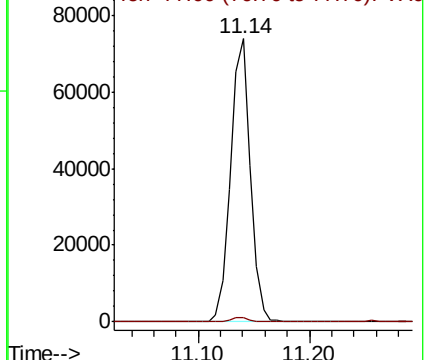
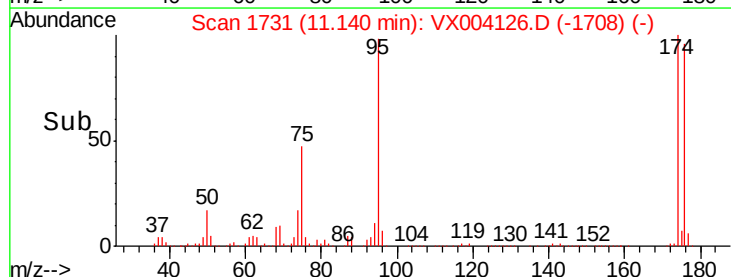
75 100

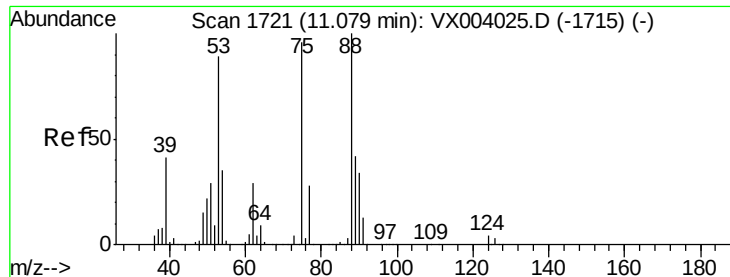
77 1.4 20.8 62.5#



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: 65.41 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004126.D

Acq: 17 Aug 2018 12:36

Instrument :

MSVOA_X

ClientSampleId :

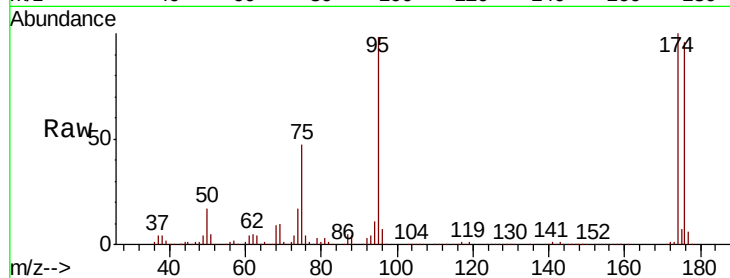
Tot Ion: 75 Resp: 90427

Ion Ratio Lower Upper

75 100

53 0.3 80.3 120.5#

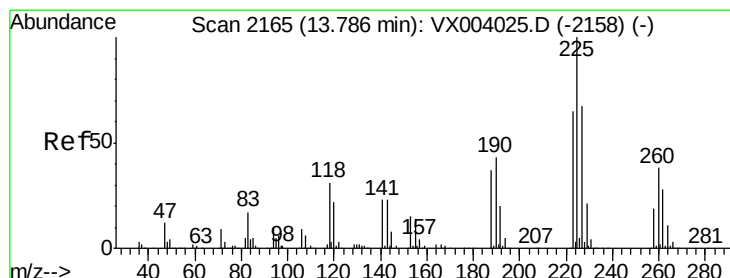
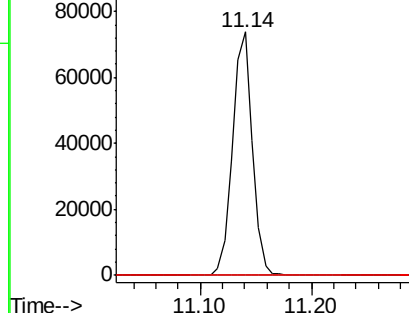
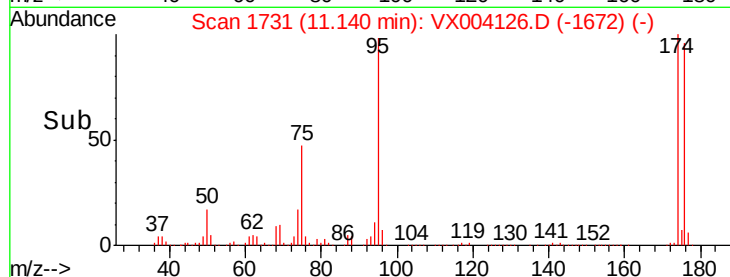
89 0.0 37.8 56.8#



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



#94

Hexachlorobutadiene

Concen: 0.24 ug/l

RT: 13.78 min Scan# 2164

Delta R.T. -0.01 min

Lab File: VX004126.D

Acq: 17 Aug 2018 12:36

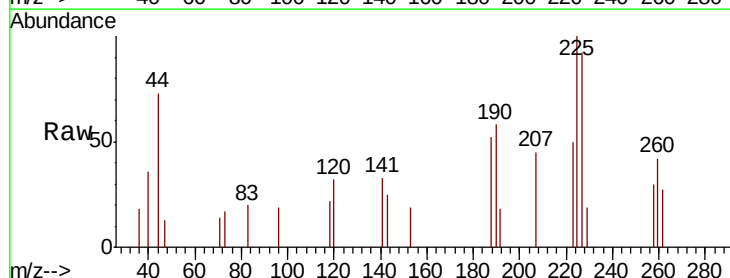
Tgt Ion: 225 Resp: 564

Ion Ratio Lower Upper

225 100

223 64.4 31.4 94.0

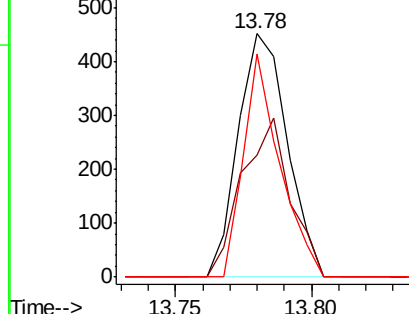
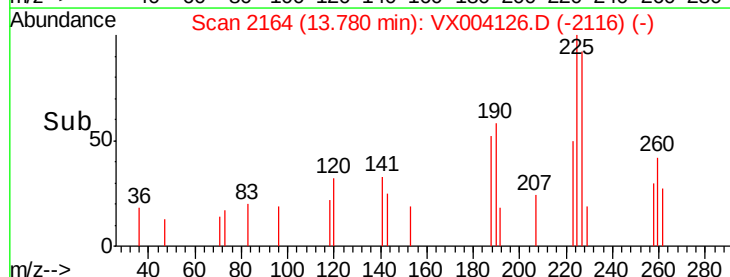
227 67.9 32.1 96.5

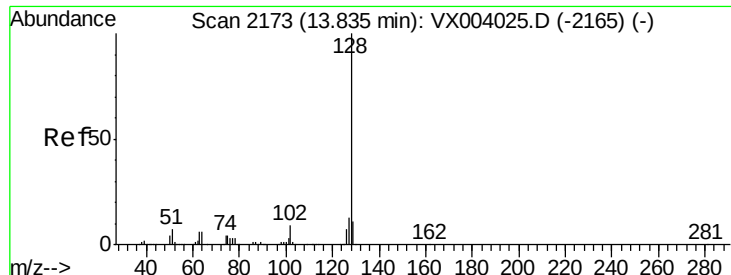


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95
 Naphthalene
 Concen: 1.22 ug/l
 RT: 13.83 min Scan# 2173
 Delta R.T. 0.00 min
 Lab File: VX004126.D
 Acq: 17 Aug 2018 12:36

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:128 Resp: 1142
 Ion Ratio Lower Upper
 128 100
 127 10.9 10.2 15.2
 129 13.5 8.8 13.2#

