

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX053118\
 Data File : VX002189.D
 Acq On : 31 May 2018 21:17
 Operator : JC/MD
 Sample : J3118-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 01 03:27:03 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	263375	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	382981	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	344347	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	186230	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	227169	48.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.50%	
35) Dibromofluoromethane	5.51	113	167044	43.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.24%	
50) Toluene-d8	8.72	98	657332	47.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.82%	
62) 4-Bromofluorobenzene	11.14	95	231696	42.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.42%	

Target Compounds

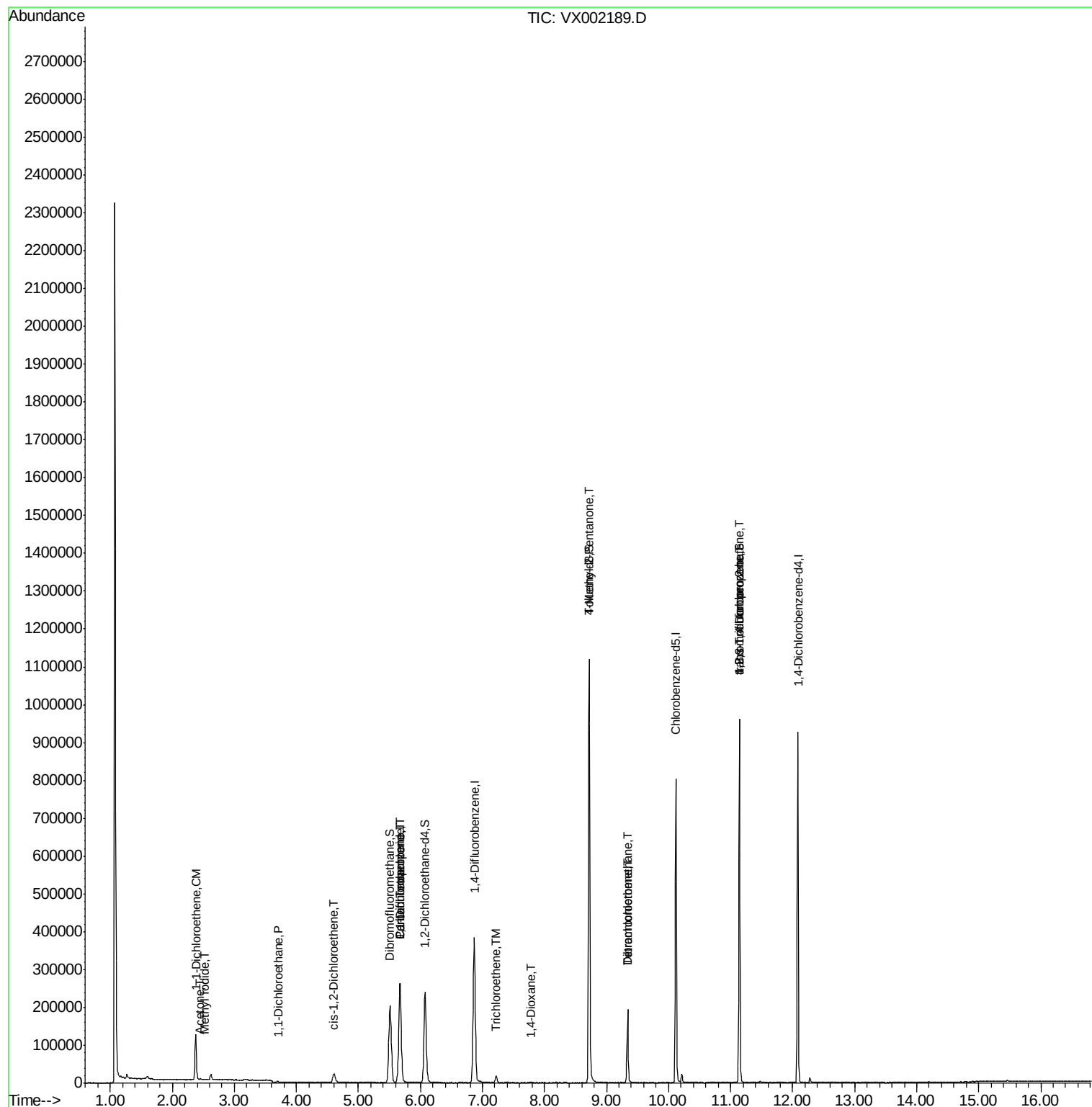
						Qvalue
2) Dichlorodifluoromethane	1.21	85	196	Below Cal	#	41
5) Bromomethane	1.62	94	162	Below Cal	#	2
10) Methyl Iodide	2.53	142	1831	0.41	ug/l	93
12) 1,1-Dichloroethene	2.38	96	39797	12.96	ug/l	93
16) Acetone	2.45	43	2308	1.27	ug/l	98
18) Methyl Acetate	2.77	43	275	Below Cal	#	42
20) Methylene Chloride	2.86	84	562	Below Cal	#	72
21) trans-1,2-Dichloroethene	3.17	96	784	Below Cal	#	83
24) 1,1-Dichloroethane	3.71	63	1994	0.32	ug/l	# 86
27) cis-1,2-Dichloroethene	4.61	96	12052	3.01	ug/l	77
28) Bromochloromethane	5.01	49	19	Below Cal	#	14
36) 1,1-Dichloropropene	5.67	75	18888	3.55	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	24847	4.00	ug/l	# 15
41) Methacrylonitrile	5.08	41	123	Below Cal	#	25
44) Trichloroethene	7.22	130	6249	1.37	ug/l	80
49) 1,4-Dioxane	7.78	88	402	3.87	ug/l	# 37
51) 4-Methyl-2-Pentanone	8.72	43	3395	0.49	ug/l	# 1
60) Dibromochloromethane	9.34	129	33645	6.85	ug/l	# 11
64) Tetrachloroethene	9.34	164	38300	7.76	ug/l	96
74) N-amyl acetate	6.49	43	42	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.14	83	364	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.14	75	123979	27.72	ug/l	# 33
79) 2-Chlorotoluene	11.43	91	182	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	11.14	75	123979	66.61	ug/l	# 10

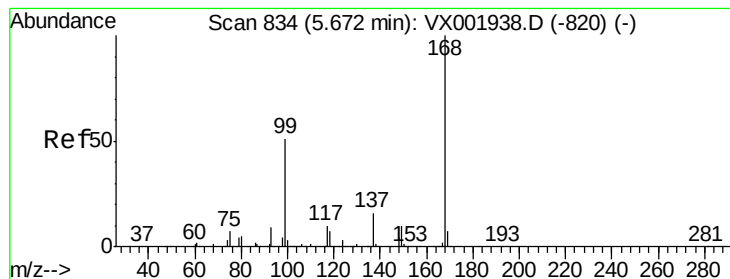
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 01 03:27:03 2018
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Quant Title : SW846 8260
QLast Update : Thu May 24 13:09:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

Instrument :

MSVOA_X

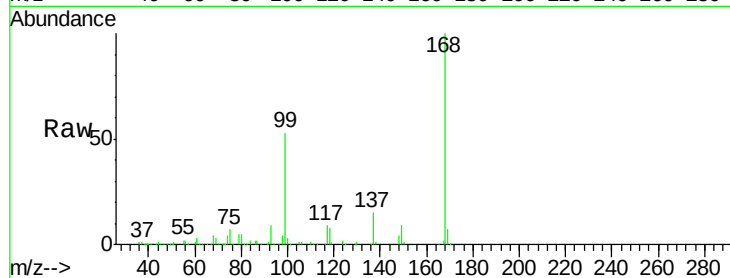
ClientSampleId :

Tot Ion:168 Resp: 263375

Ion Ratio Lower Upper

168 100

99 53.5 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

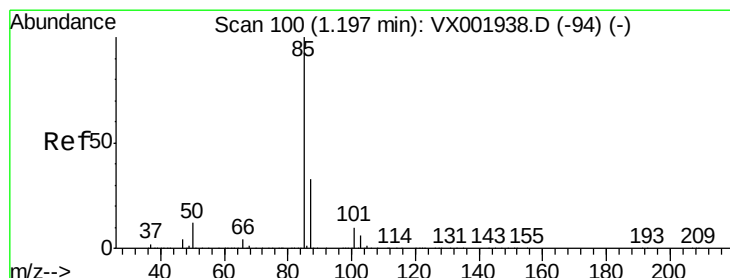
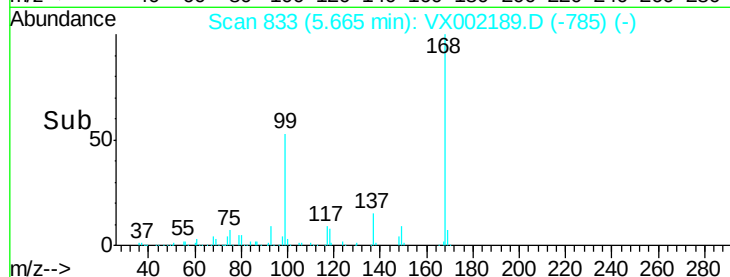
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.21 min Scan# 102

Delta R.T. 0.01 min

Lab File: VX002189.D

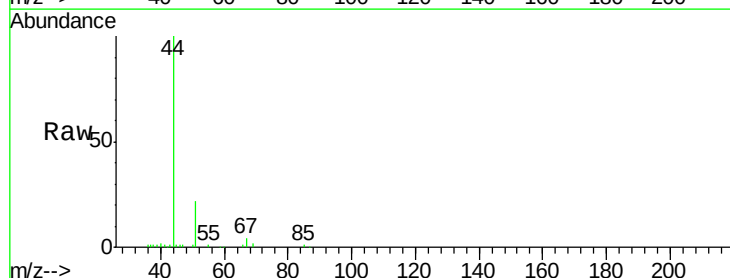
Acq: 31 May 2018 21:17

Tgt Ion: 85 Resp: 196

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.21

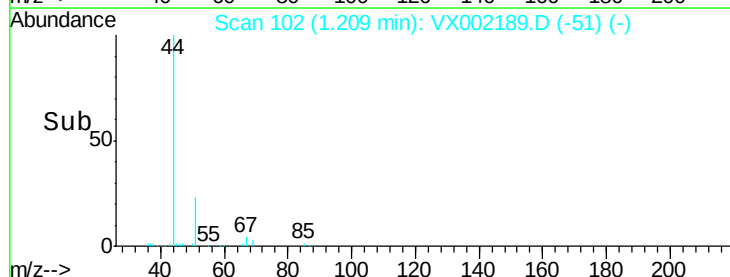
150

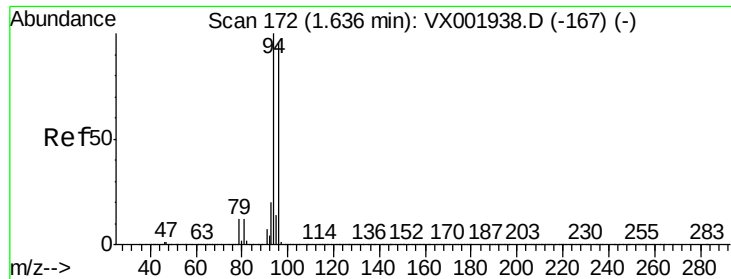
100

50

0

Time--> 1.16 1.18 1.20 1.22 1.24





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 169

Delta R.T. -0.02 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

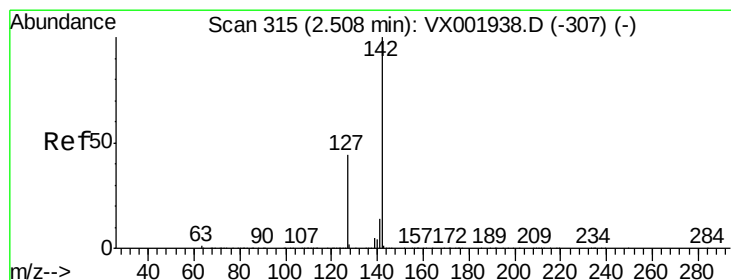
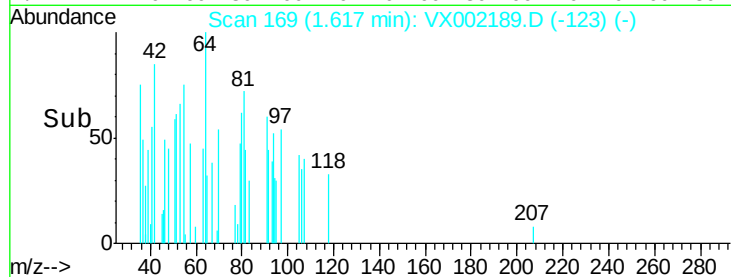
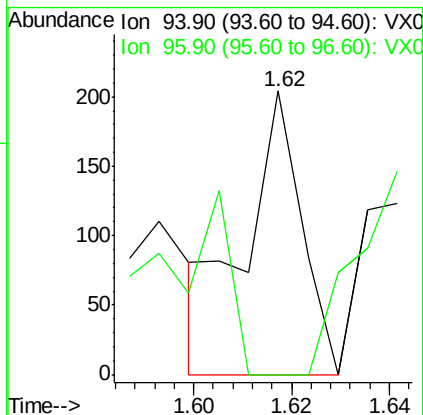
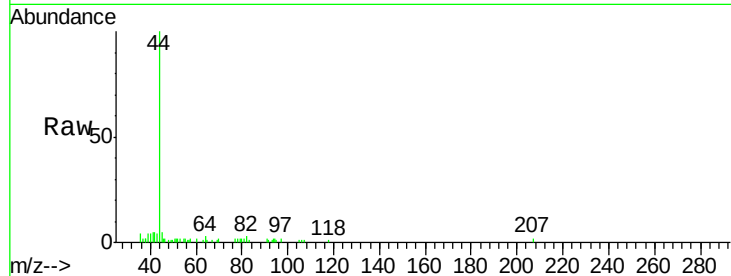
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 162

Ion Ratio Lower Upper

94 100

96 0.0 75.9 113.9#



#10

Methyl Iodide

Concen: 0.41 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.02 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

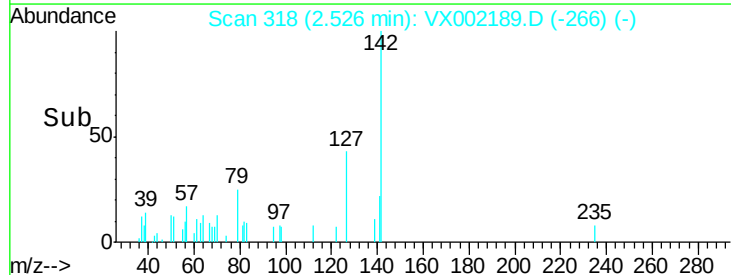
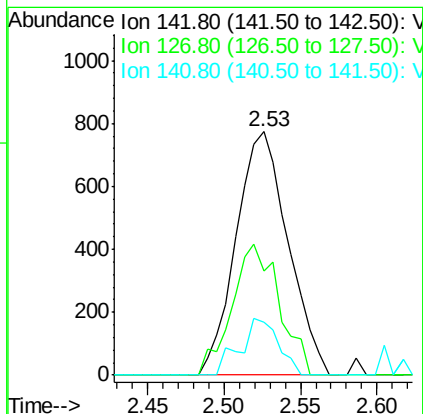
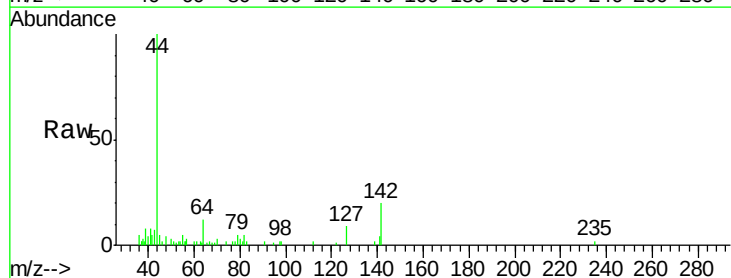
Tgt Ion: 142 Resp: 1831

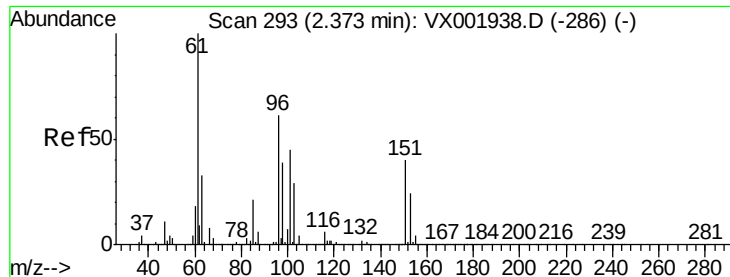
Ion Ratio Lower Upper

142 100

127 48.9 35.5 53.3

141 16.9 11.3 16.9





#12

1,1-Dichloroethene

Concen: 12.96 ug/l

RT: 2.38 min Scan# 294

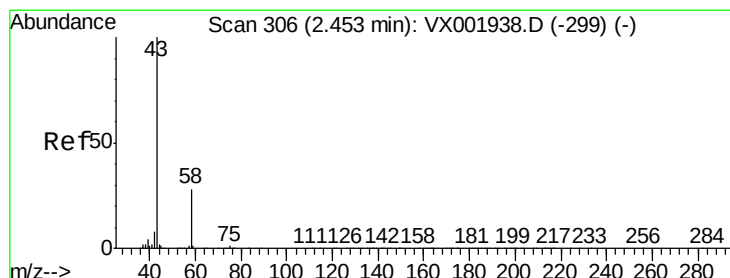
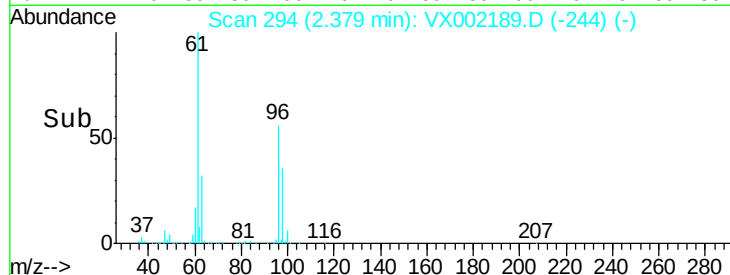
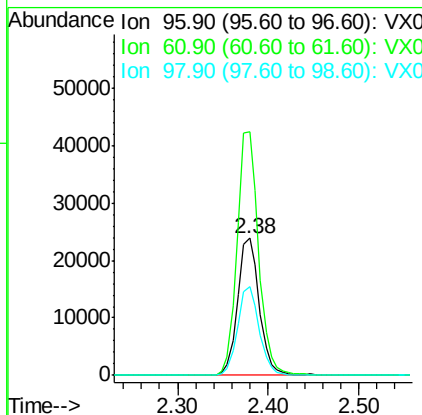
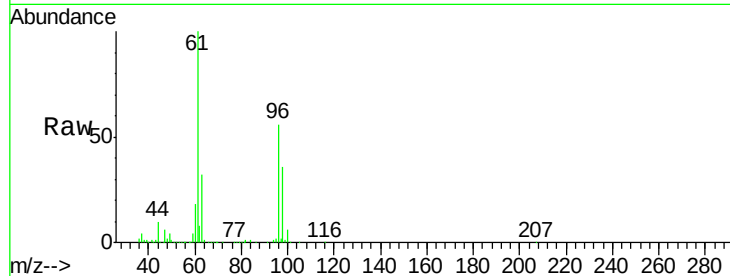
Delta R.T. 0.01 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	96	Resp:	39797
Ion	Ratio	Lower	Upper
96	100		
61	177.8	131.7	197.5
98	64.4	51.6	77.4



#16

Acetone

Concen: 1.27 ug/l

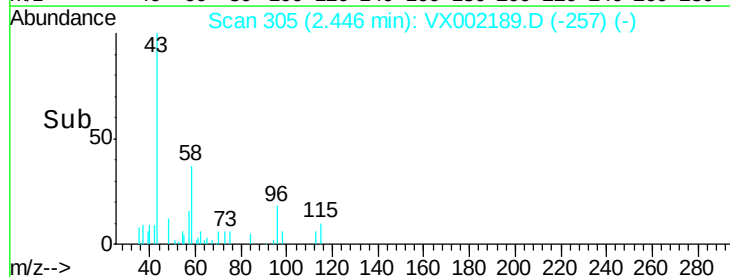
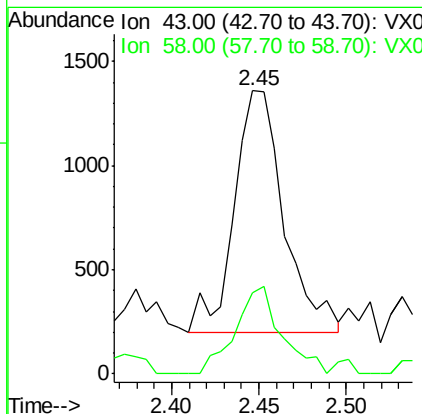
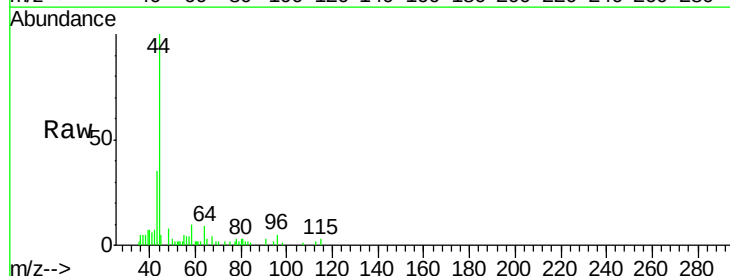
RT: 2.45 min Scan# 305

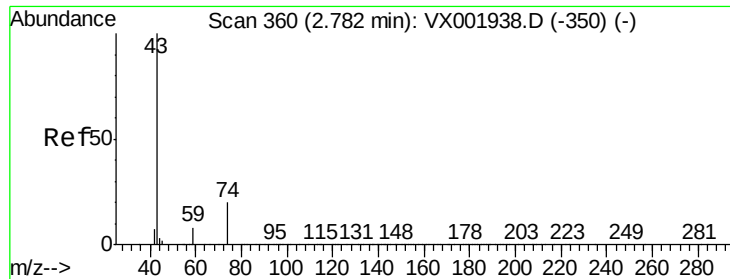
Delta R.T. -0.01 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

Tgt Ion:	43	Resp:	2308
Ion	Ratio	Lower	Upper
43	100		
58	29.1	22.3	33.5

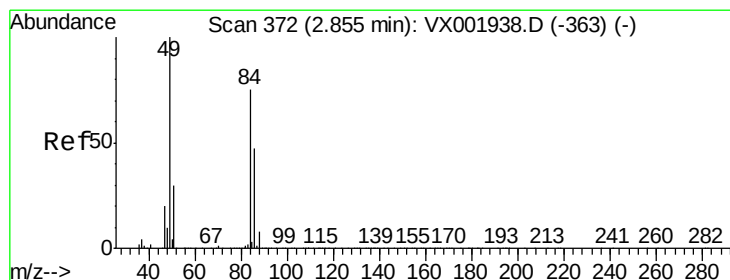
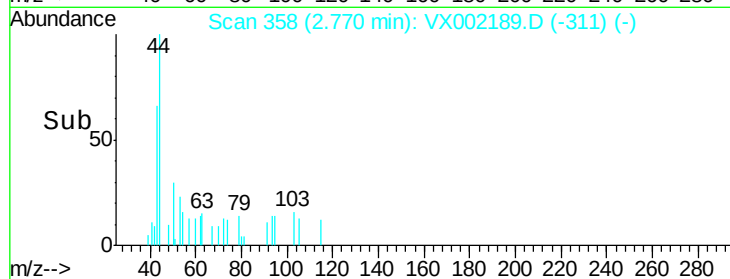
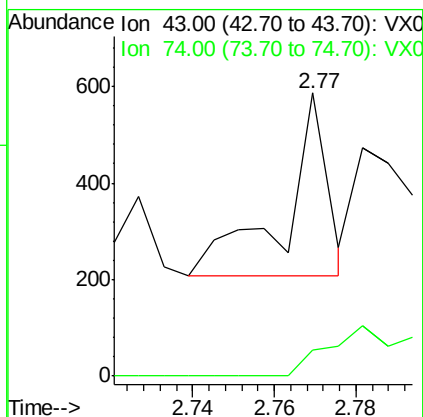
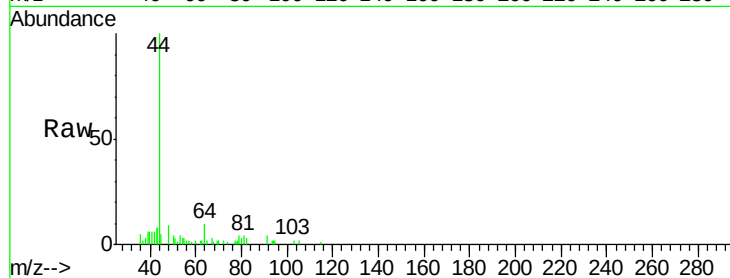




#18
Methyl Acetate
Concen: Below Cal
RT: 2.77 min Scan# 358
Delta R.T. -0.01 min
Lab File: VX002189.D
Acq: 31 May 2018 21:17

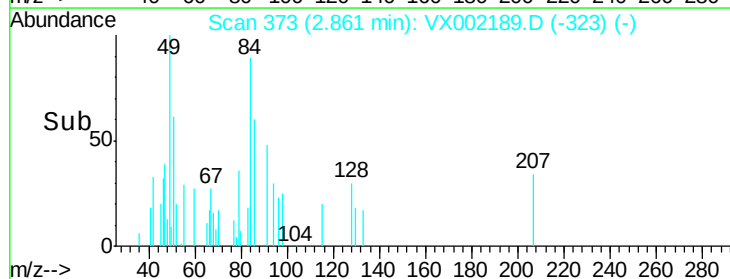
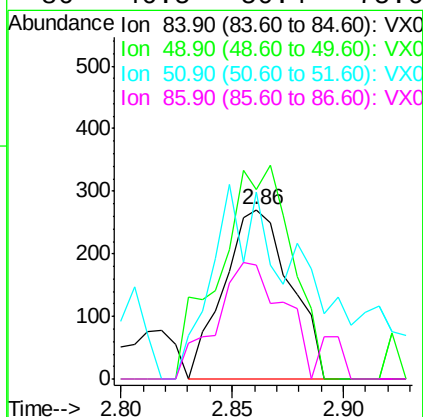
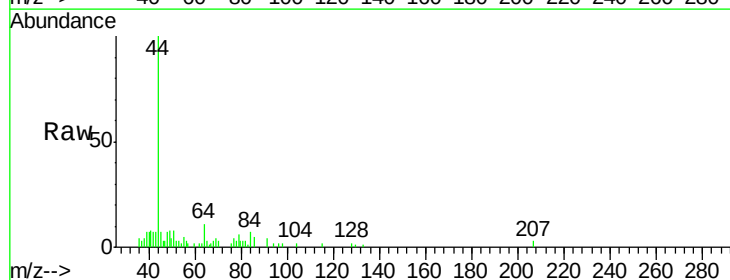
Instrument :
MSVOA_X
ClientSampleId :

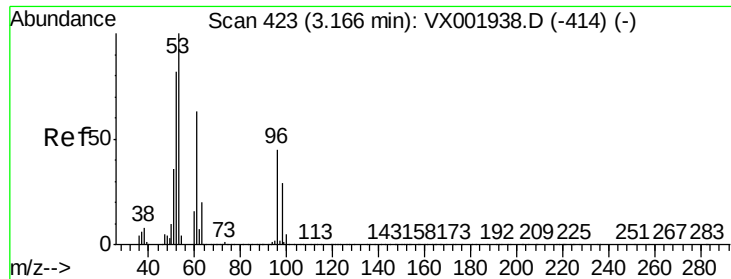
Tot Ion: 43 Resp: 275
Ion Ratio Lower Upper
43 100
74 48.0 16.8 25.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002189.D
Acq: 31 May 2018 21:17

Tgt Ion: 84 Resp: 562
Ion Ratio Lower Upper
84 100
49 111.8 107.2 160.8
51 84.9 32.4 48.6#
86 46.5 50.4 75.6#

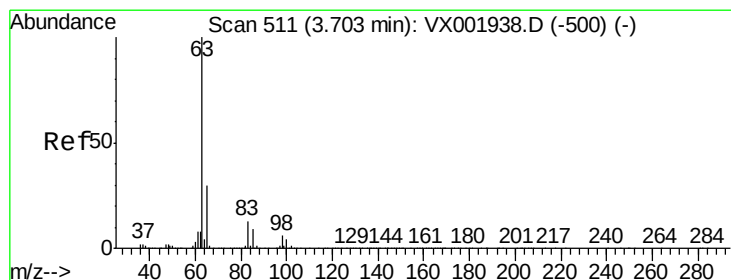
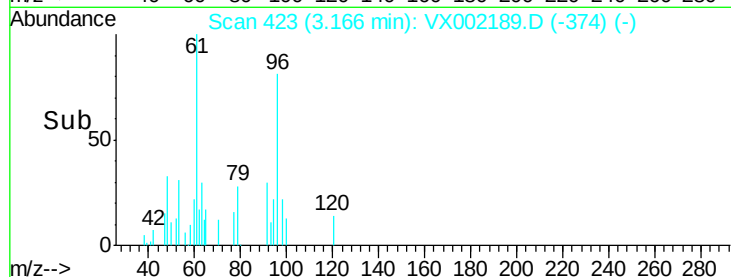
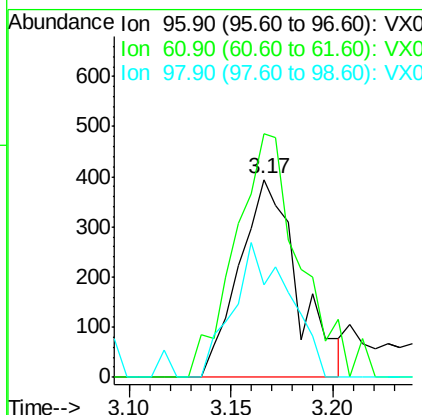
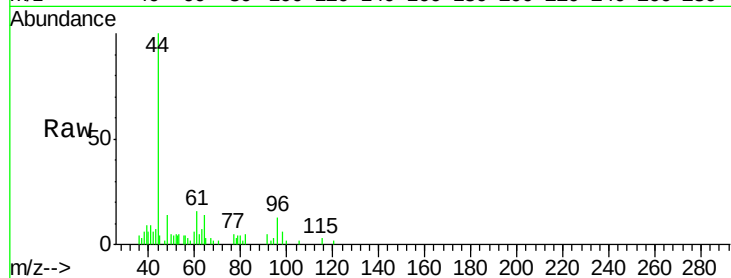




#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 423
Delta R.T. -0.00 min
Lab File: VX002189.D
Acq: 31 May 2018 21:17

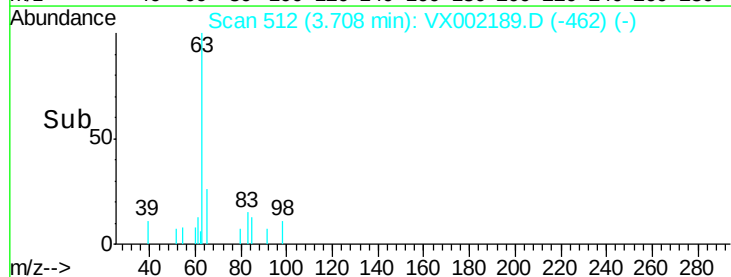
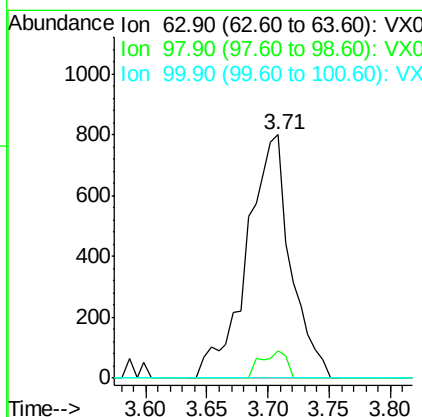
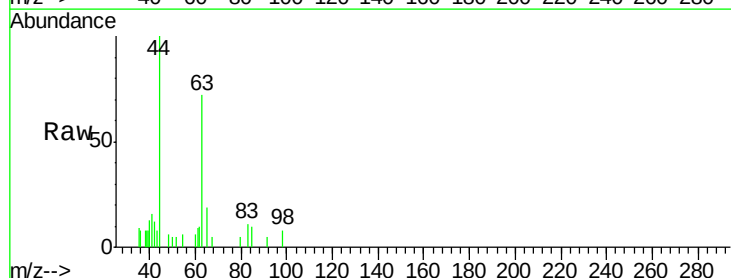
Instrument :
MSVOA_X
ClientSampleId :

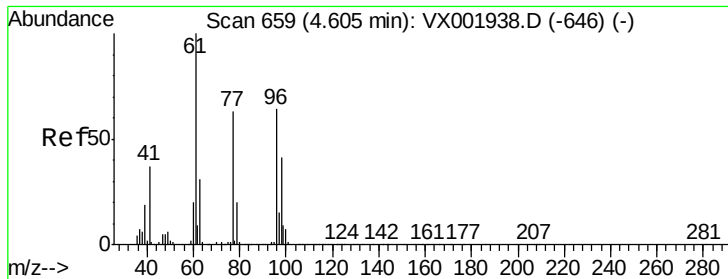
Tot Ion: 96 Resp: 784
Ion Ratio Lower Upper
96 100
61 123.4 113.3 169.9
98 46.7 51.7 77.5#



#24
1,1-Dichloroethane
Concen: 0.32 ug/l
RT: 3.71 min Scan# 512
Delta R.T. 0.01 min
Lab File: VX002189.D
Acq: 31 May 2018 21:17

Tgt Ion: 63 Resp: 1994
Ion Ratio Lower Upper
63 100
98 11.4 3.3 9.8#
100 0.0 2.1 6.5#



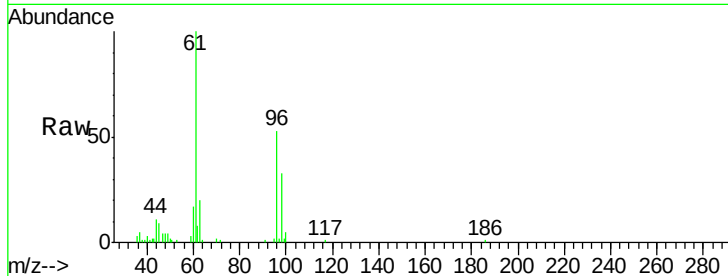


#27

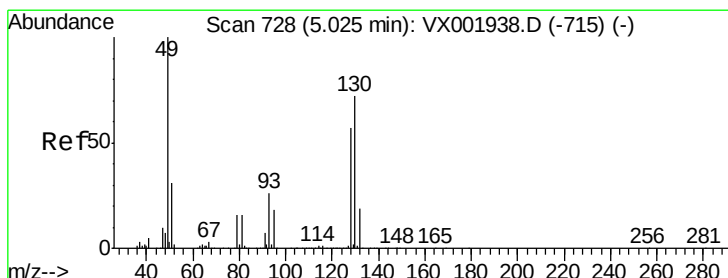
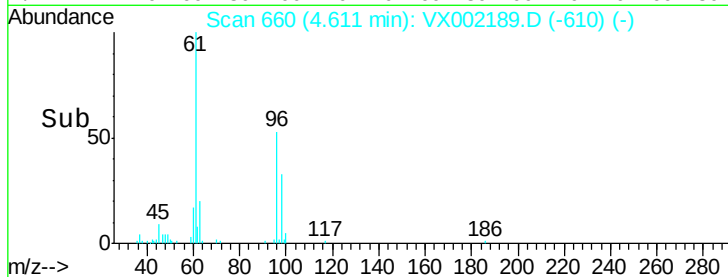
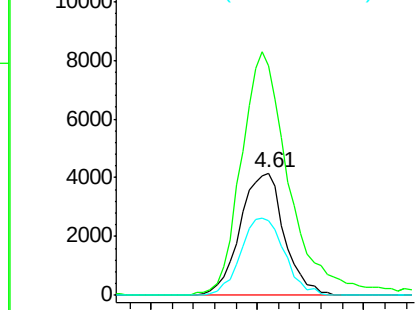
cis-1,2-Dichloroethene
Concen: 3.01 ug/l
RT: 4.61 min Scan# 660
Delta R.T. 0.01 min
Lab File: VX002189.D
Acq: 31 May 2018 21:17

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
96	100		
61	217.2	0.0	348.4
98	62.6	0.0	128.6



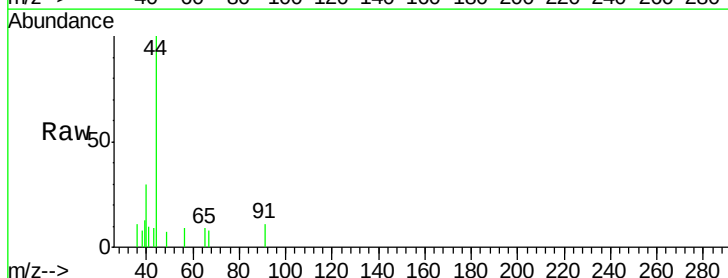
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



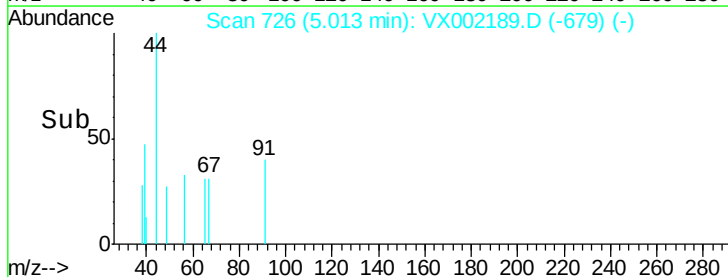
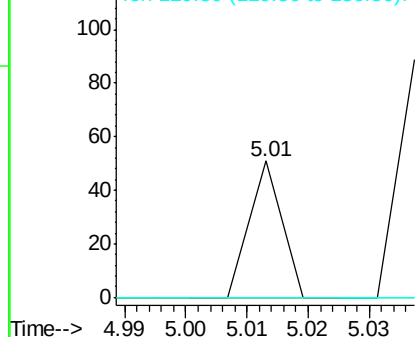
#28

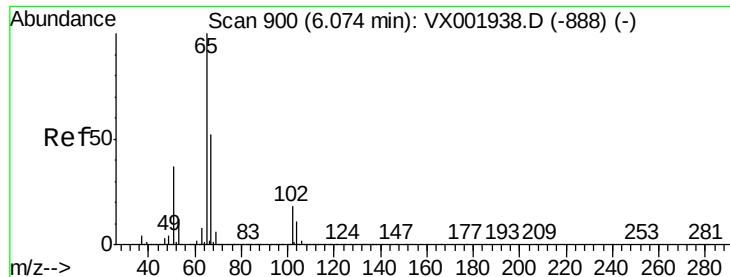
Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 726
Delta R.T. -0.01 min
Lab File: VX002189.D
Acq: 31 May 2018 21:17

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	59.4	89.2#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V

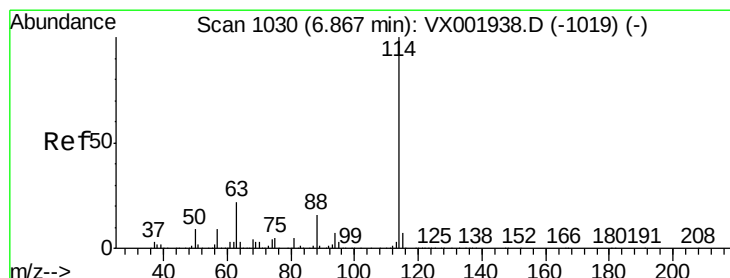
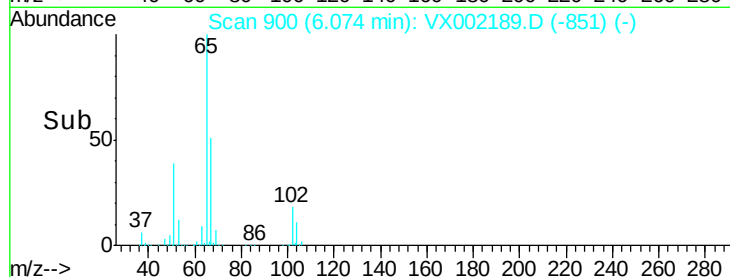
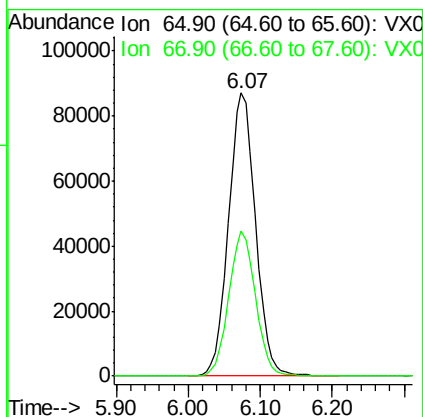
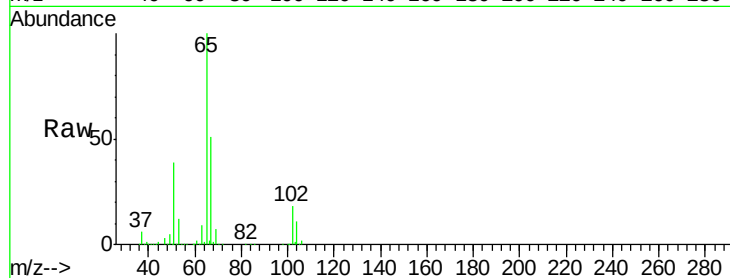




#33
 1,2-Dichloroethane-d4
 Concen: 48.25 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002189.D
 Acq: 31 May 2018 21:17

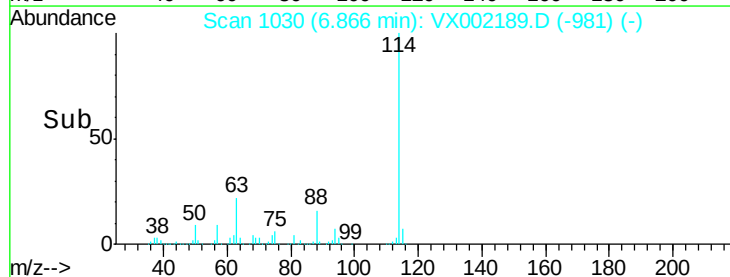
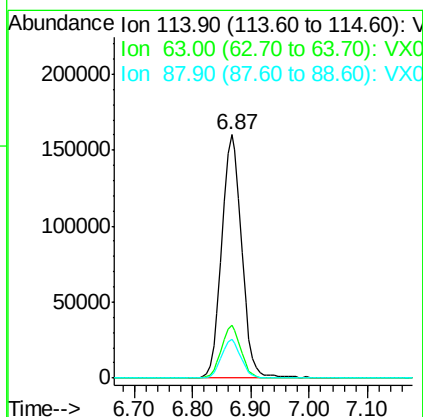
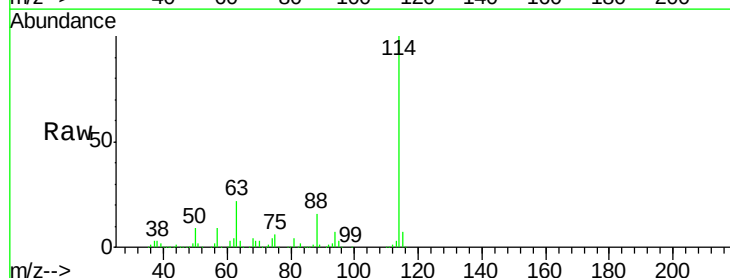
Instrument :
 MSVOA_X
 ClientSampleId :

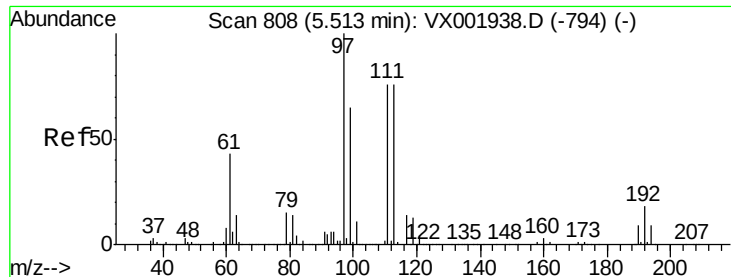
Tot Ion: 65 Resp: 227169
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002189.D
 Acq: 31 May 2018 21:17

Tgt Ion: 114 Resp: 382981
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.2
 88 15.9 0.0 31.6





#35

Dibromofluoromethane

Concen: 43.62 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

Instrument :

MSVOA_X

ClientSampleId :

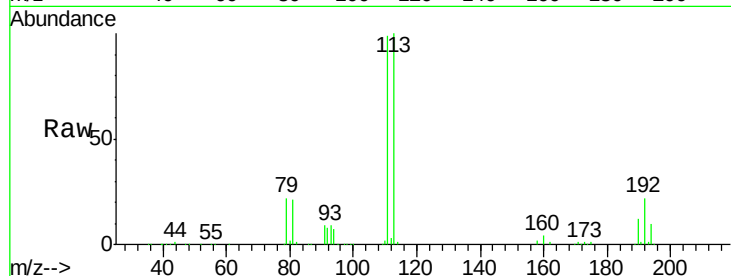
Tot Ion:113 Resp: 167044

Ion Ratio Lower Upper

113 100

111 100.7 82.0 123.0

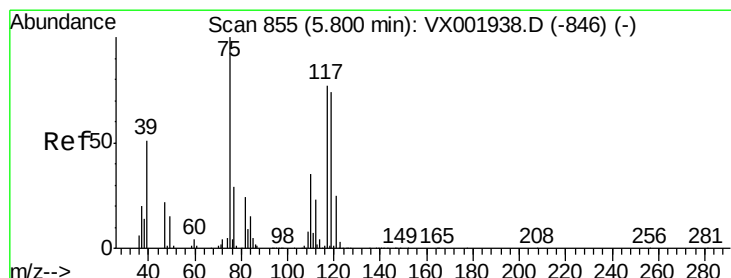
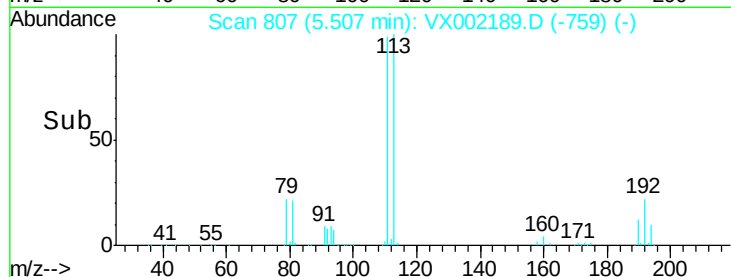
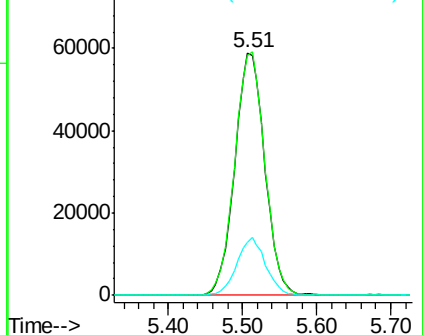
192 22.9 18.9 28.3



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: 3.55 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

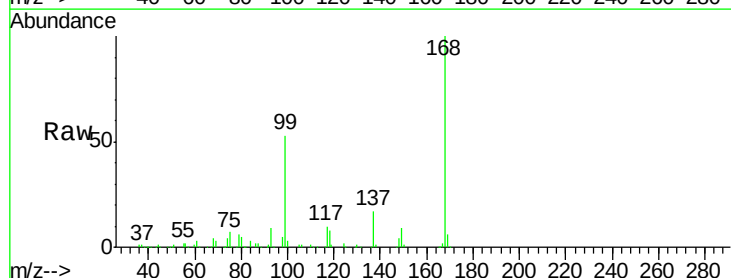
Tgt Ion: 75 Resp: 18888

Ion Ratio Lower Upper

75 100

110 10.8 17.4 52.2#

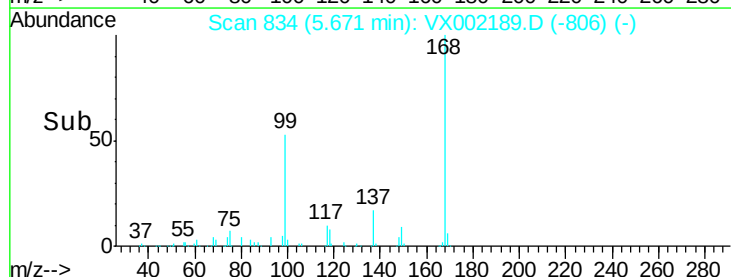
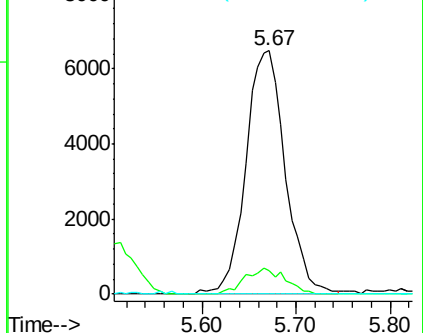
77 0.0 24.4 36.6#

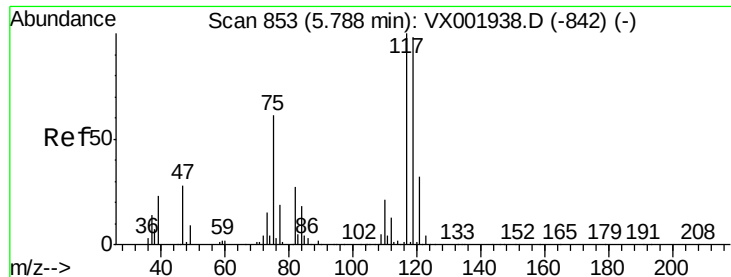


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.00 ua/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

Instrument :
MSVOA_X
ClientSampleId :

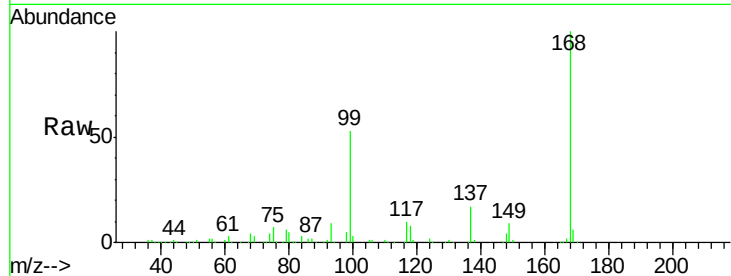
Tot Ion:117 Resp: 24847

Ion Ratio Lower Upper

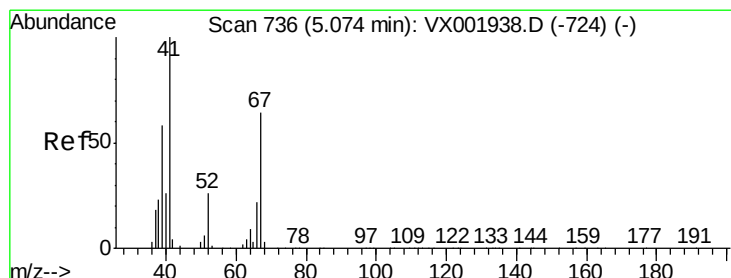
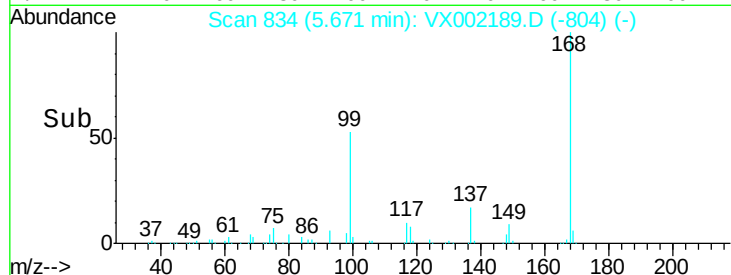
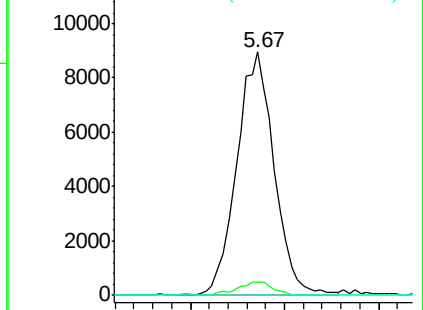
117 100

119 5.3 78.5 117.7#

121 0.0 25.5 38.3#



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: Below Cal

RT: 5.08 min Scan# 737

Delta R.T. 0.01 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

Tgt Ion: 41 Resp: 123

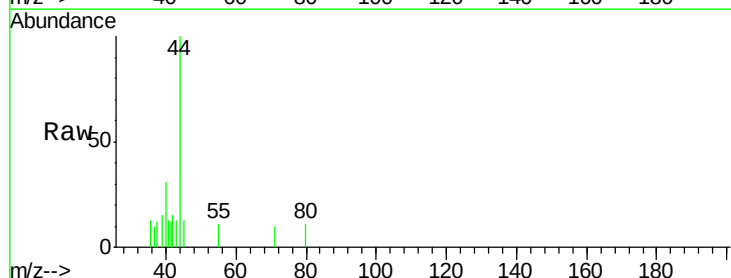
Ion Ratio Lower Upper

41 100

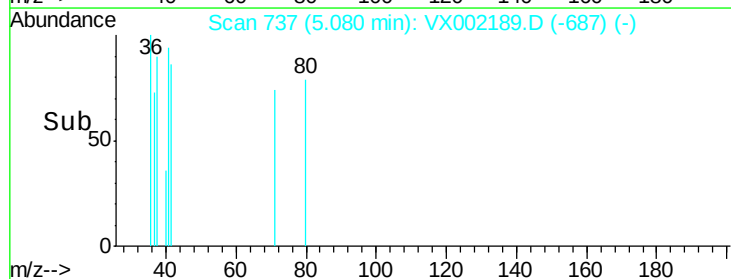
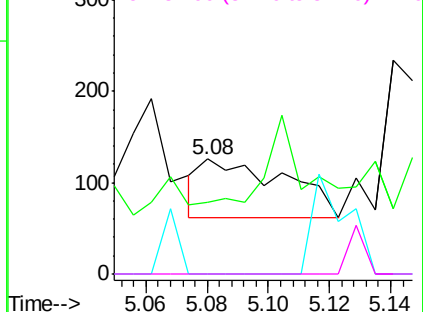
39 0.0 46.0 69.0#

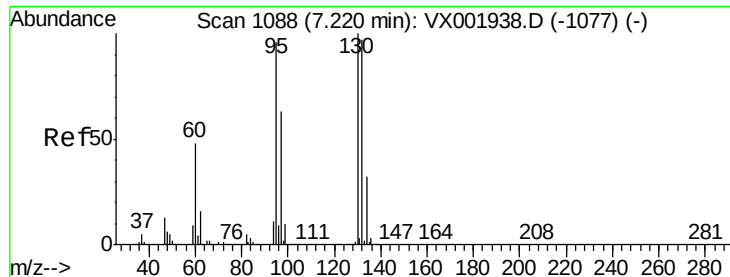
67 0.0 50.6 75.8#

52 0.0 21.9 32.9#



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





#44

Trichloroethene

Concen: 1.37 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

Instrument :

MSVOA_X

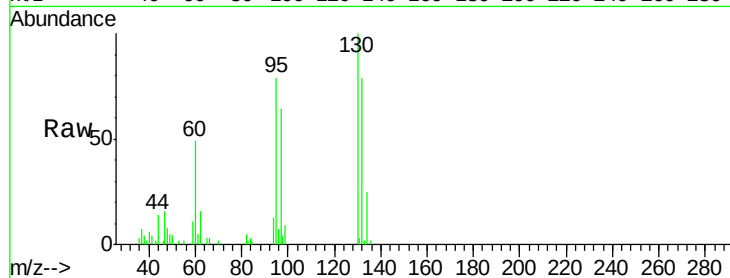
ClientSampleId :

Tot Ion:130 Resp: 6249

Ion Ratio Lower Upper

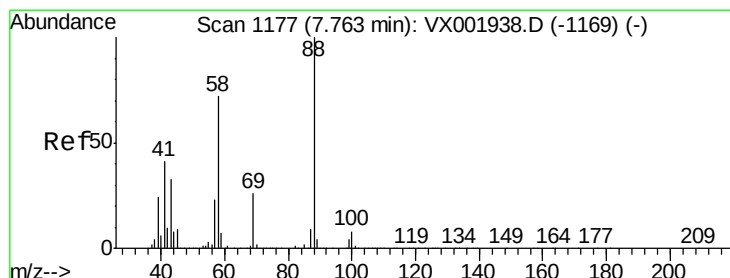
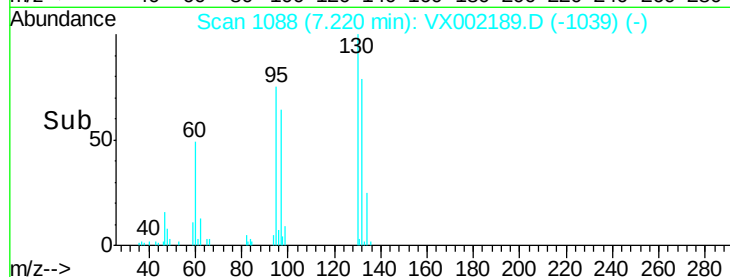
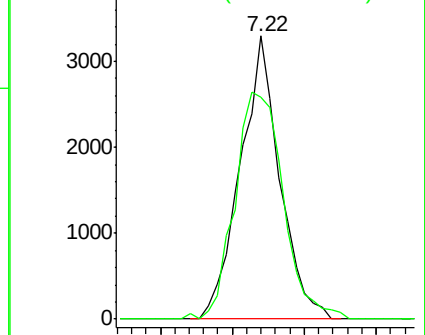
130 100

95 76.4 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 3.87 ug/l

RT: 7.78 min Scan# 1180

Delta R.T. 0.02 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

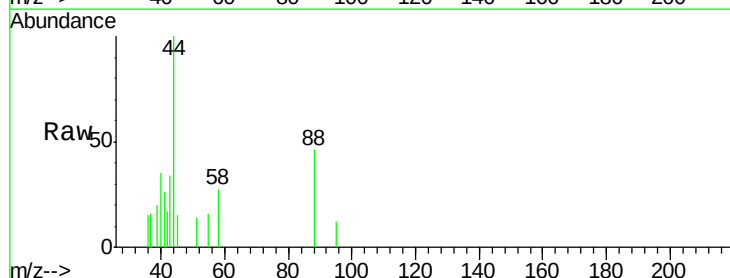
Tgt Ion: 88 Resp: 402

Ion Ratio Lower Upper

88 100

43 89.6 29.8 44.8#

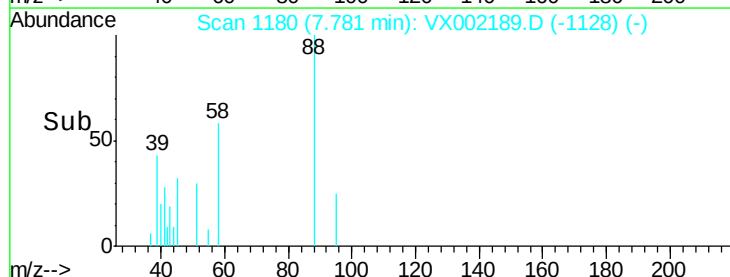
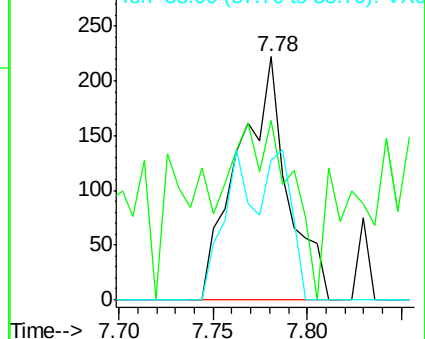
58 30.8 58.7 88.1#

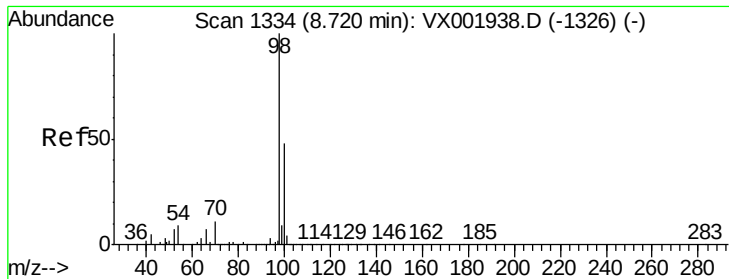


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

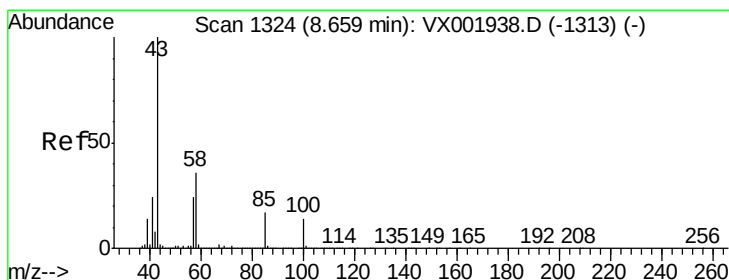
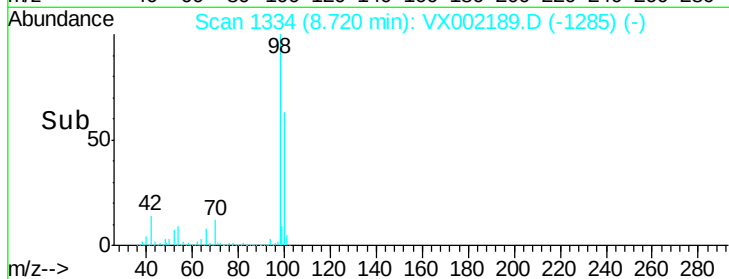
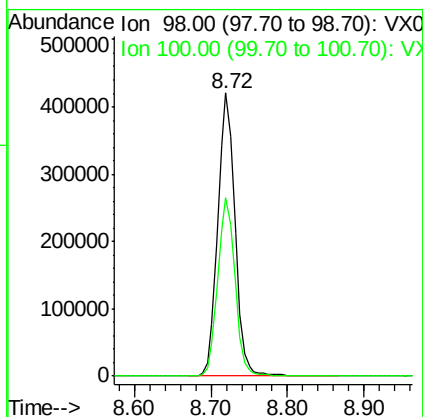
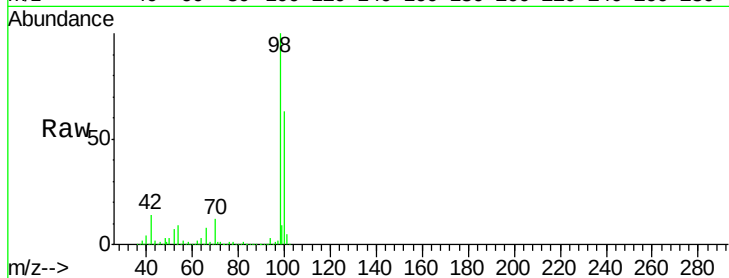




#50
Toluene-d8
Concen: 47.41 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002189.D
Acq: 31 May 2018 21:17

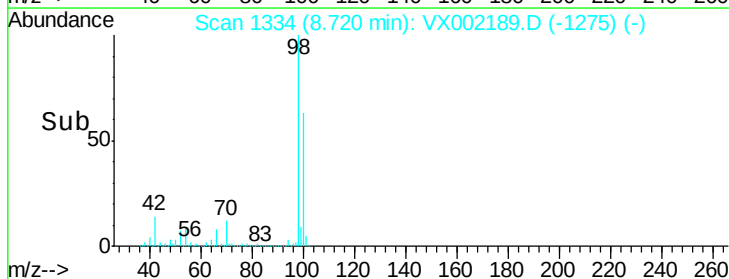
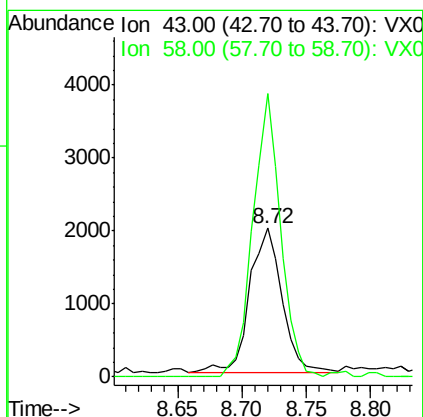
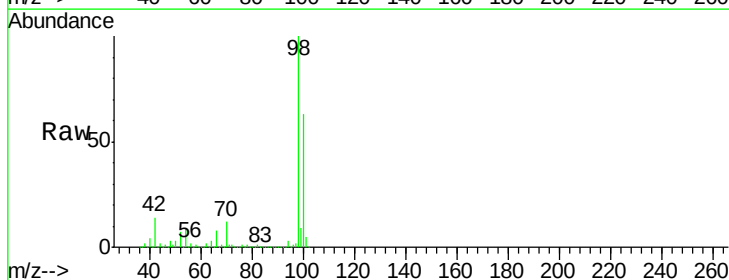
Instrument :
MSVOA_X
ClientSampleId :

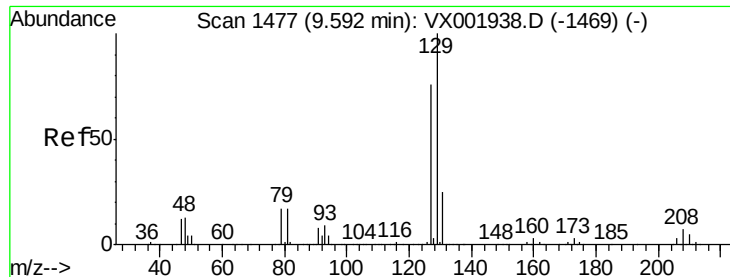
Tot Ion: 98 Resp: 657332
Ion Ratio Lower Upper
98 100
100 63.4 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.49 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.06 min
Lab File: VX002189.D
Acq: 31 May 2018 21:17

Tgt Ion: 43 Resp: 3395
Ion Ratio Lower Upper
43 100
58 169.1 28.5 42.7#





#60

Dibromochloromethane

Concen: 6.85 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.26 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

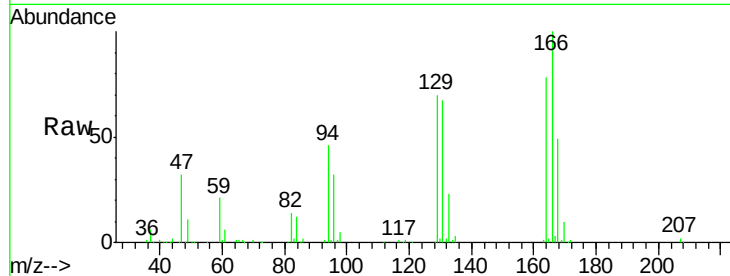
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 33645

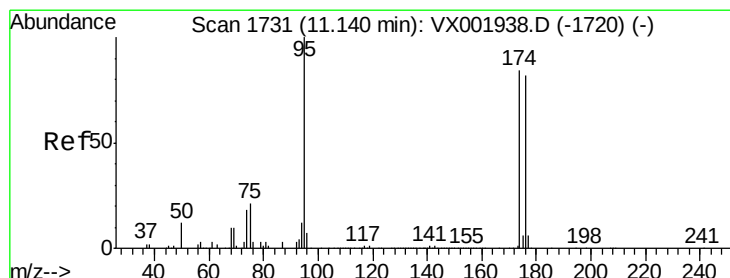
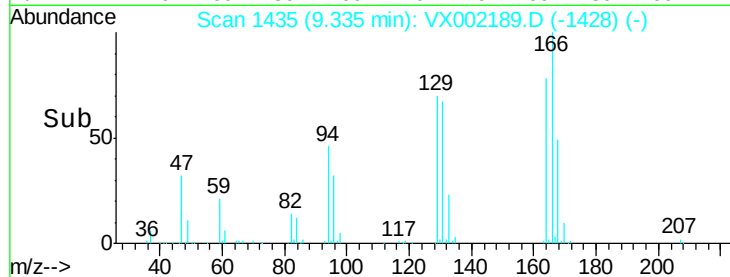
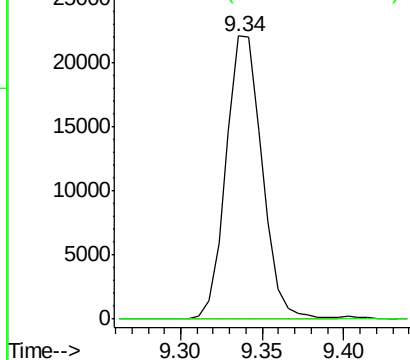
Ion Ratio Lower Upper

129 100

127 0.1 38.3 114.9#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 42.71 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

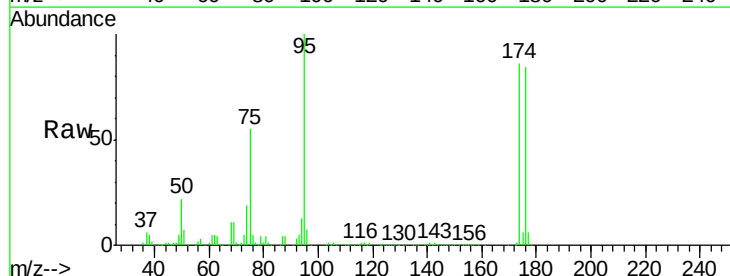
Tgt Ion: 95 Resp: 231696

Ion Ratio Lower Upper

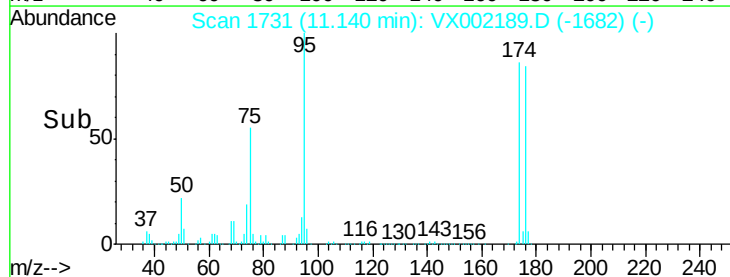
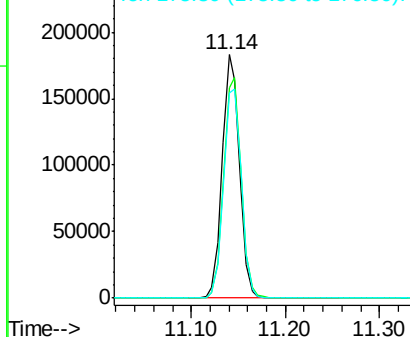
95 100

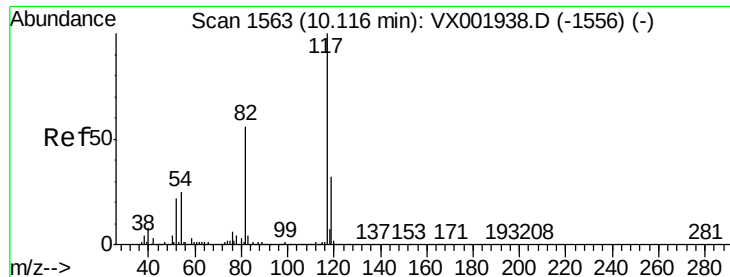
174 91.9 0.0 178.8

176 89.0 0.0 175.6



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

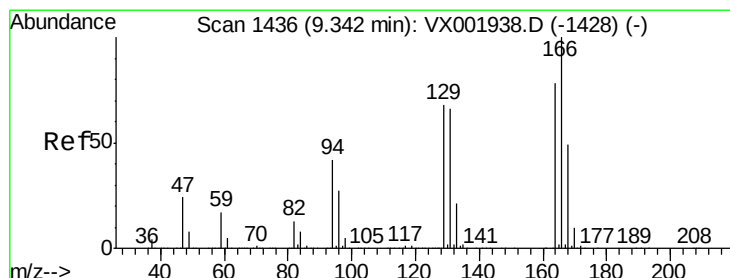
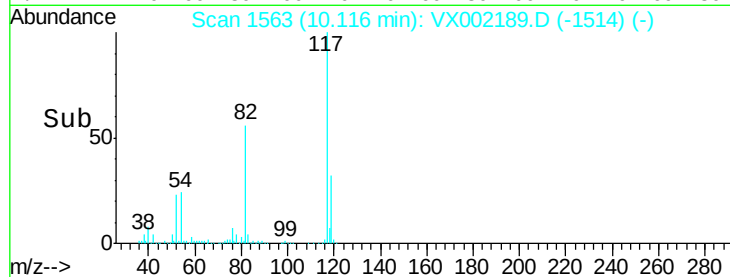
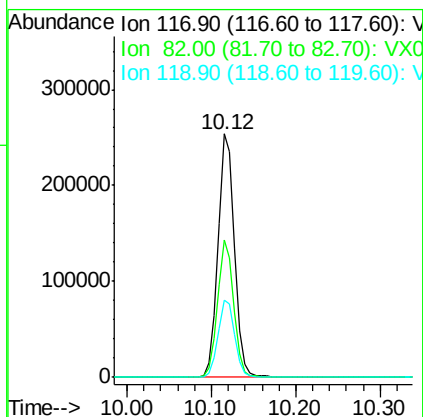
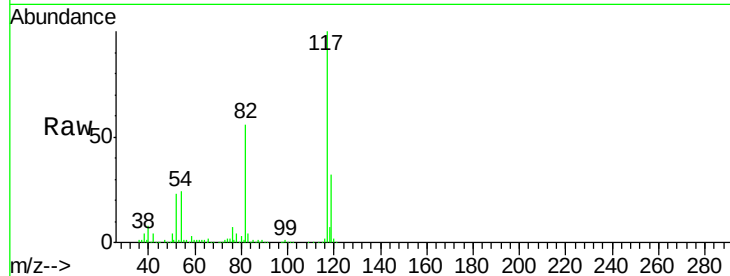




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002189.D
Acq: 31 May 2018 21:17

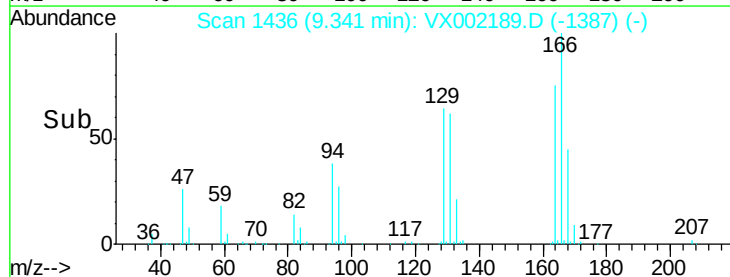
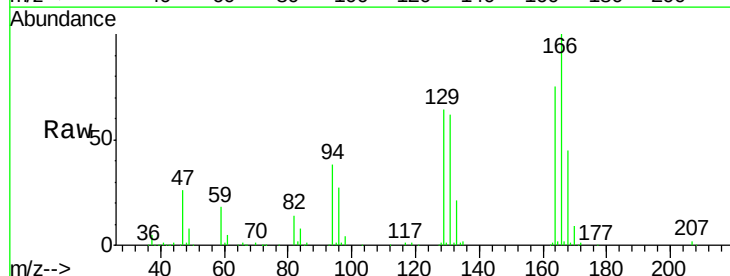
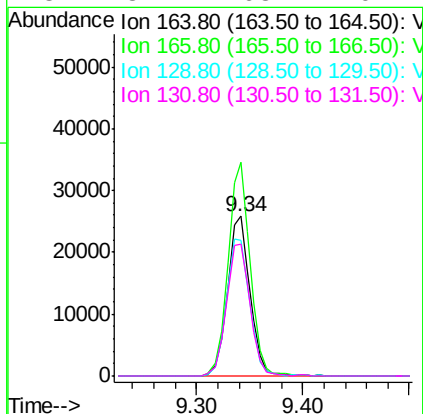
Instrument :
MSVOA_X
ClientSampleId :

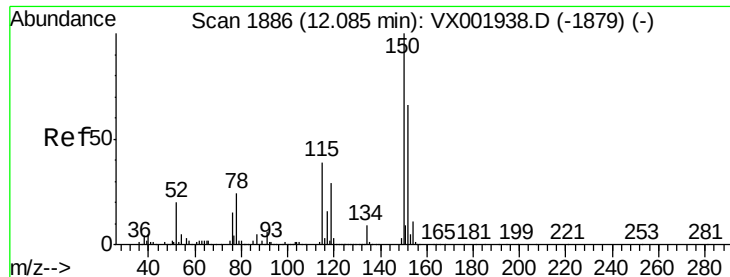
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.4	44.8	67.2
119	31.8	25.5	38.3



#64
Tetrachloroethene
Concen: 7.76 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.00 min
Lab File: VX002189.D
Acq: 31 May 2018 21:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	133.8	102.7	154.1
129	85.1	70.3	105.5
131	82.4	68.2	102.4



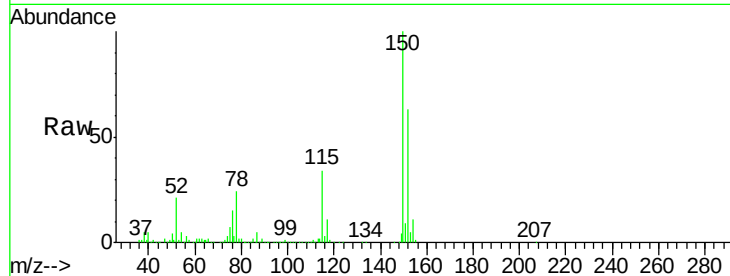


#72

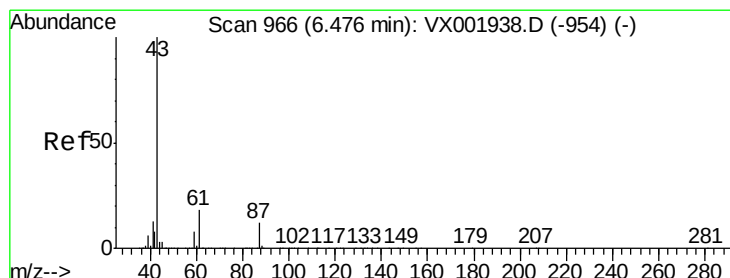
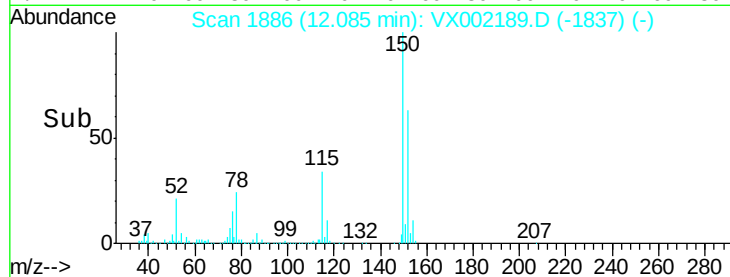
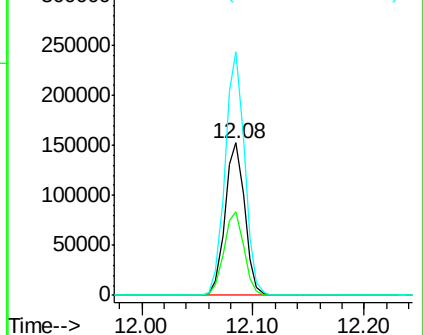
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002189.D
Acq: 31 May 2018 21:17

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.1	42.3	126.8
150	158.3	0.0	351.0



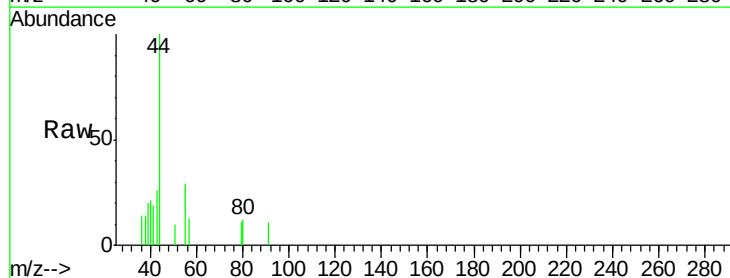
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



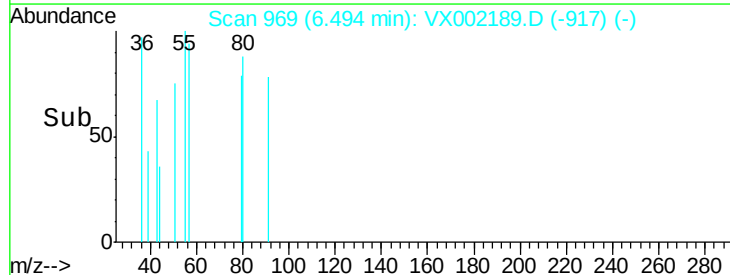
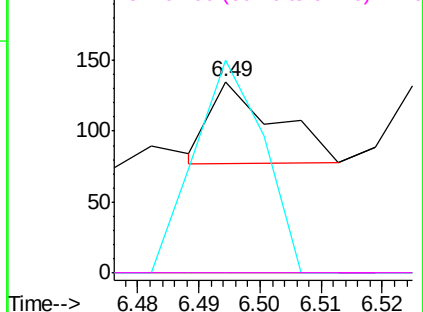
#74

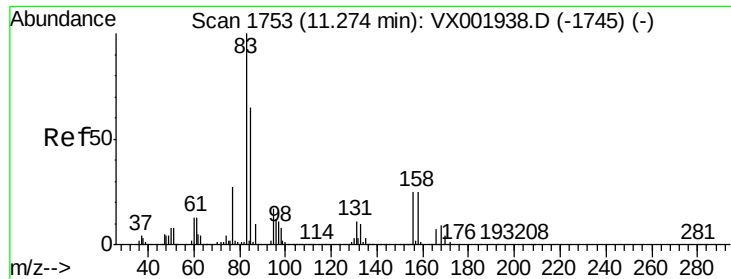
N-ethyl acetate
Concen: Below Cal
RT: 6.49 min Scan# 969
Delta R.T. 0.02 min
Lab File: VX002189.D
Acq: 31 May 2018 21:17

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	0.1	0.1#
55	278.6	0.1	0.1#
61	0.0	14.5	21.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.14 min Scan# 1731

Delta R.T. -0.13 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

Instrument :

MSVOA_X

ClientSampleId :

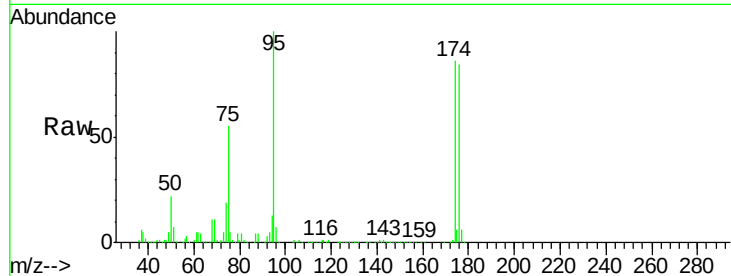
Tot Ion: 83 Resp: 364

Ion Ratio Lower Upper

83 100

131 104.1 5.7 17.0#

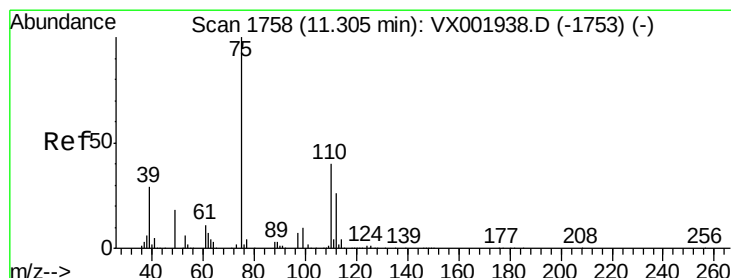
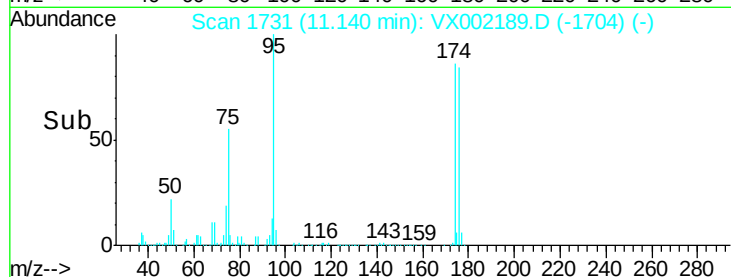
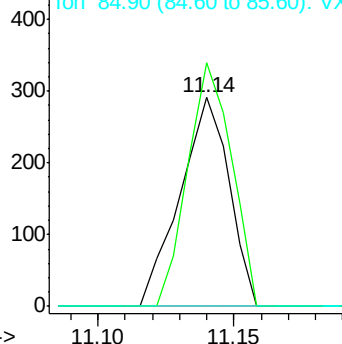
85 0.0 32.6 97.7#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 27.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002189.D

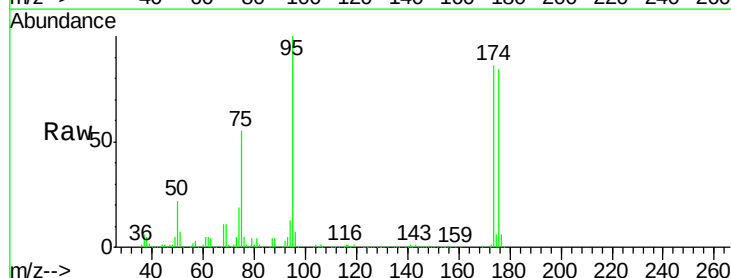
Acq: 31 May 2018 21:17

Tgt Ion: 75 Resp: 123979

Ion Ratio Lower Upper

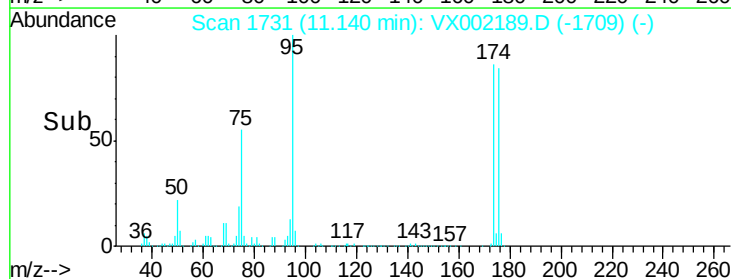
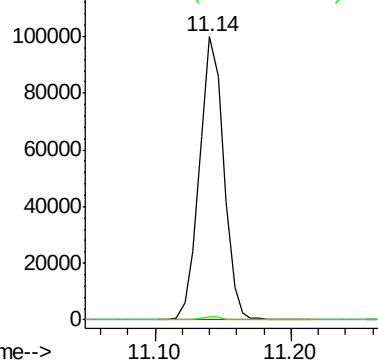
75 100

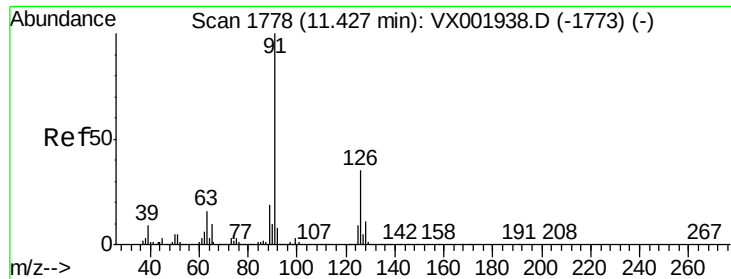
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.43 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

Instrument :

MSVOA_X

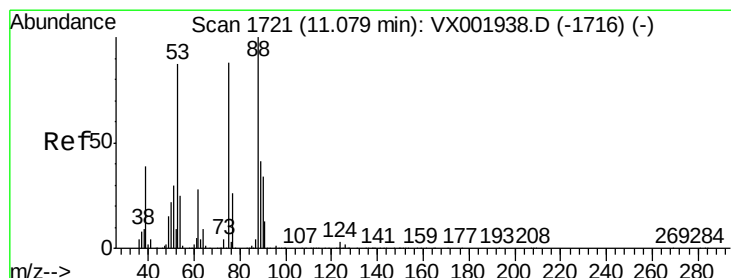
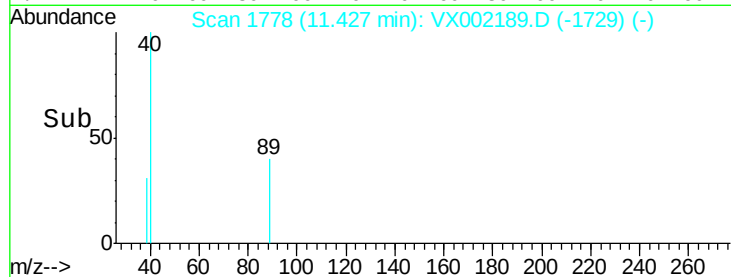
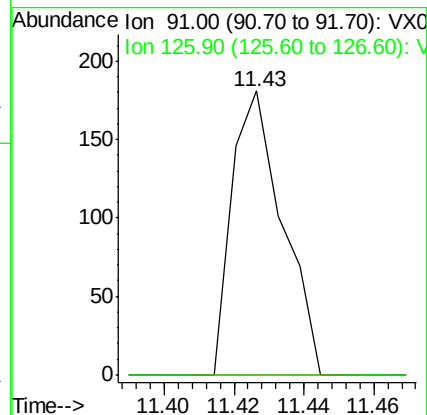
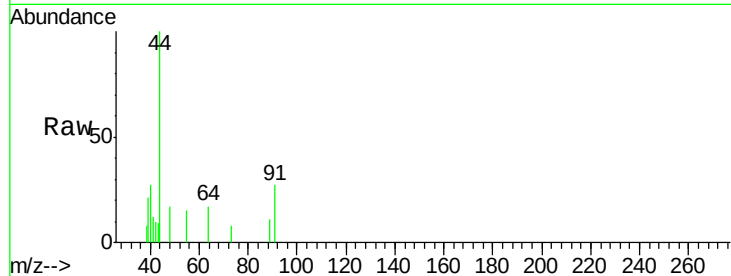
ClientSampleId :

Tot Ion: 91 Resp: 182

Ion Ratio Lower Upper

91 100

126 0.0 17.4 52.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.61 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002189.D

Acq: 31 May 2018 21:17

Tgt Ion: 75 Resp: 123979

Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 39.4 59.2#

