

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122218\
 Data File : VX006772.D
 Acq On : 22 Dec 2018 15:16
 Operator : JC/MD
 Sample : J6533-10 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 24 04:25:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	603326	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	927388	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	816678	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	393825	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	318497	48.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.96%	
35) Dibromofluoromethane	5.50	113	273695	46.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.34%	
50) Toluene-d8	8.71	98	1079709	48.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.66%	
62) 4-Bromofluorobenzene	11.14	95	370642	45.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.54%	

Target Compounds

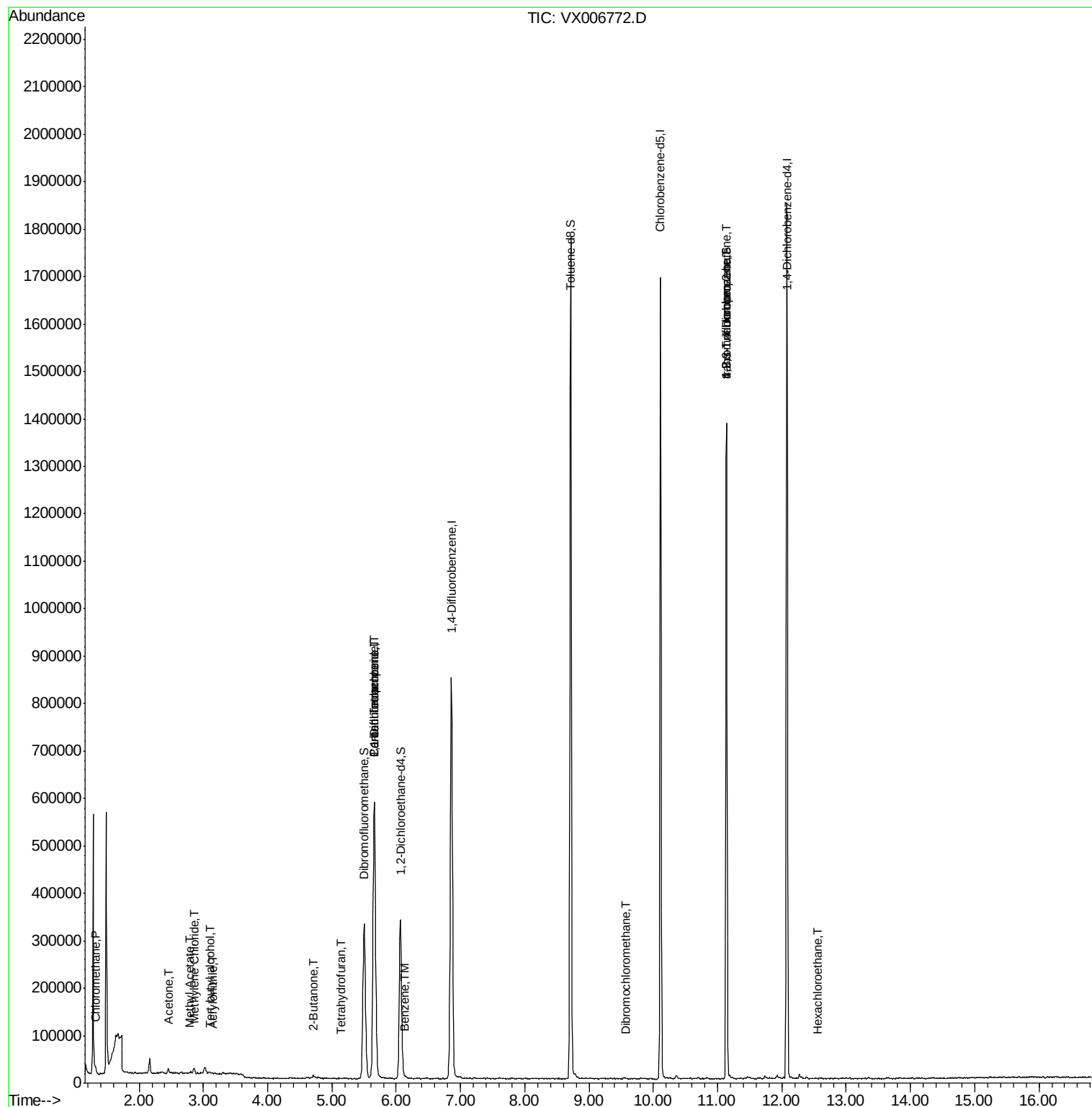
					Qvalue	
3) Chloromethane	1.32	50	3000	0.505	ug/l #	75
5) Bromomethane	1.64	94	6069	Below Cal		81
11) Tert butyl alcohol	3.10	59	5101	3.515	ug/l #	94
15) Acrylonitrile	3.15	53	807	0.250	ug/l #	34
16) Acetone	2.45	43	10781	3.609	ug/l	91
18) Methyl Acetate	2.78	43	5183	0.590	ug/l	90
20) Methylene Chloride	2.85	84	5150	0.834	ug/l #	77
25) 2-Butanone	4.71	43	9735	2.317	ug/l #	88
28) Bromochloromethane	4.99	49	219	Below Cal	#	3
29) Tetrahydrofuran	5.15	42	1005	0.363	ug/l #	44
36) 1,1-Dichloropropene	5.65	75	39631	5.160	ug/l #	48
38) Carbon Tetrachloride	5.67	117	56720	7.598	ug/l #	14
40) Benzene	6.14	78	5039	0.216	ug/l	93
49) 1,4-Dioxane	7.73	88	271	Below Cal	#	58
60) Dibromochloromethane	9.59	129	94	2.338	ug/l	78
76) 1,2,3-Trichloropropane	11.14	75	175287	23.950	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.14	75	175287	70.949	ug/l #	10
90) Hexachloroethane	12.55	117	121	3.323	ug/l	67

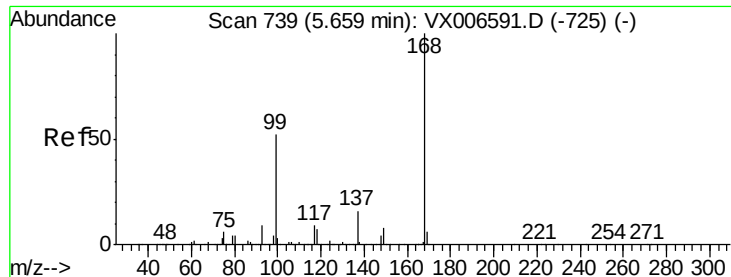
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX006772.D

Acq: 22 Dec 2018 15:16

Instrument :

MSVOA_X

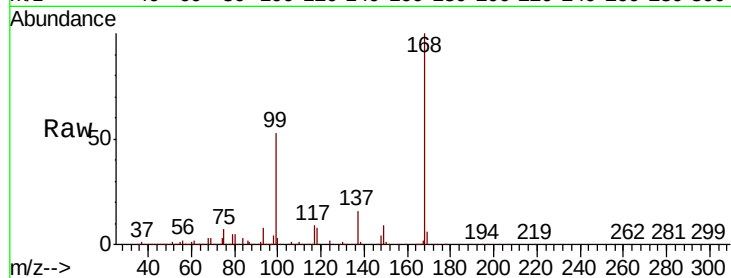
ClientSampleId :

Tot Ion:168 Resp: 603326

Ion Ratio Lower Upper

168 100

99 52.4 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

200000

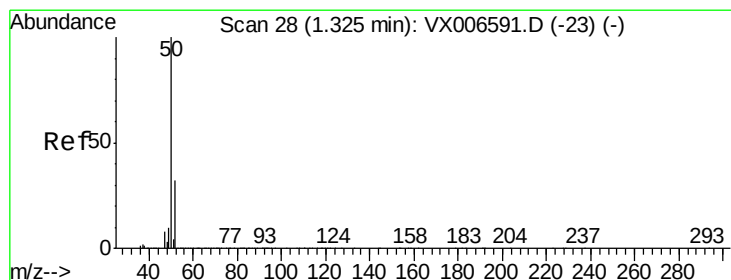
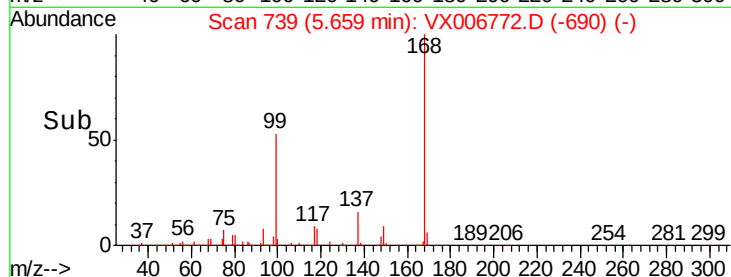
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.505 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX006772.D

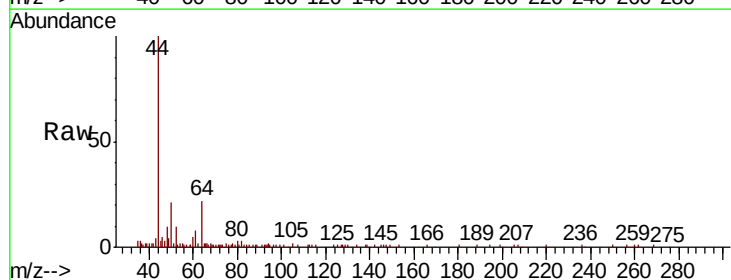
Acq: 22 Dec 2018 15:16

Tgt Ion: 50 Resp: 3000

Ion Ratio Lower Upper

50 100

52 45.5 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2500

2000

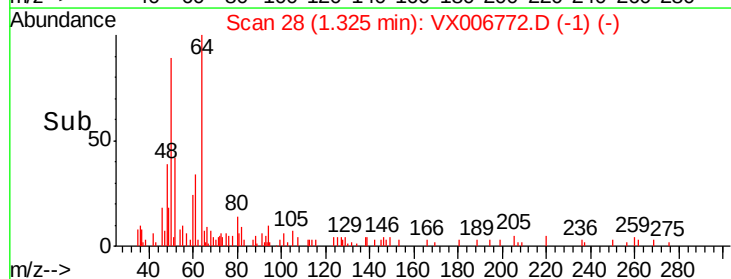
1500

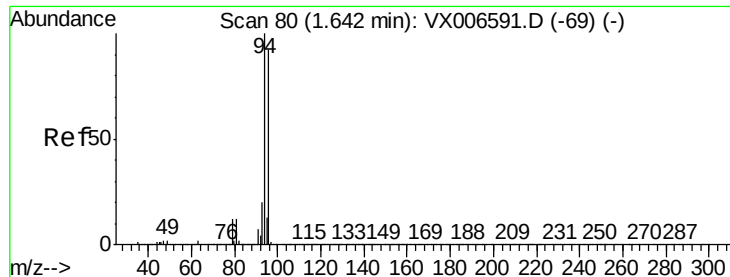
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX006772.D

Acq: 22 Dec 2018 15:16

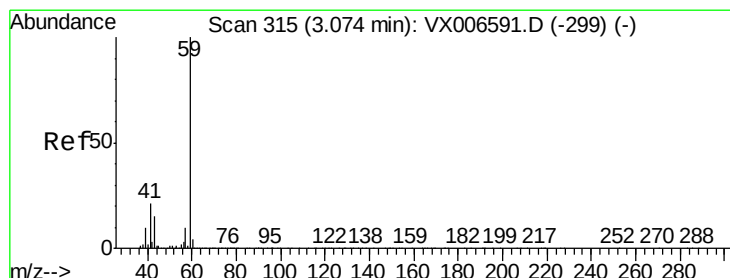
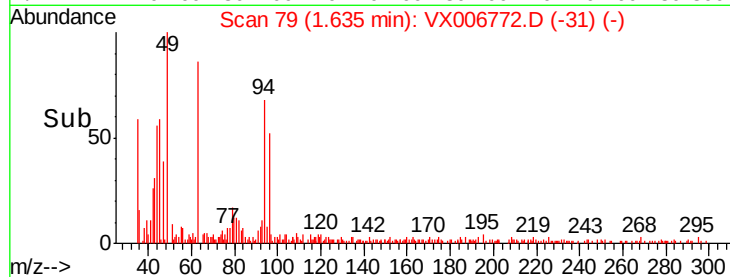
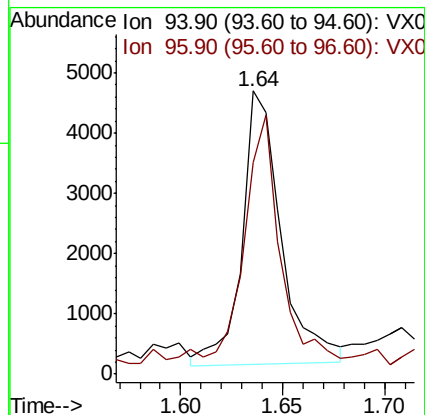
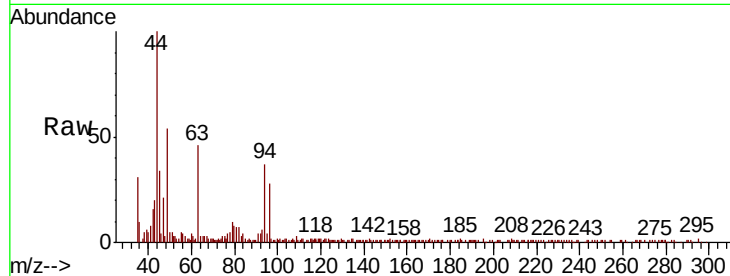
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 6069

Ion Ratio Lower Upper

94 100

96 73.5 73.4 110.2



#11

Tert butyl alcohol

Concen: 3.515 ug/l

RT: 3.10 min Scan# 320

Delta R.T. 0.03 min

Lab File: VX006772.D

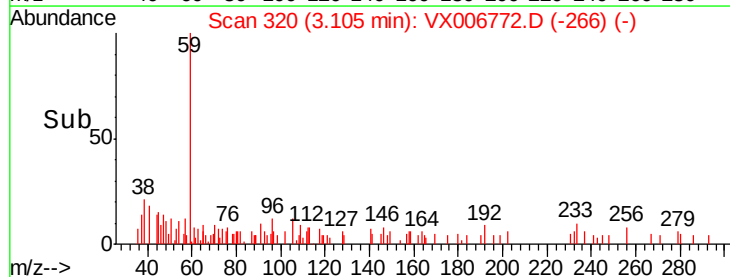
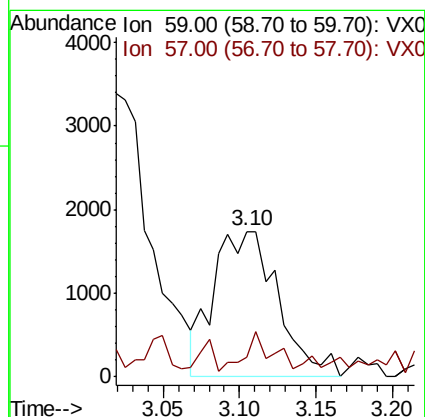
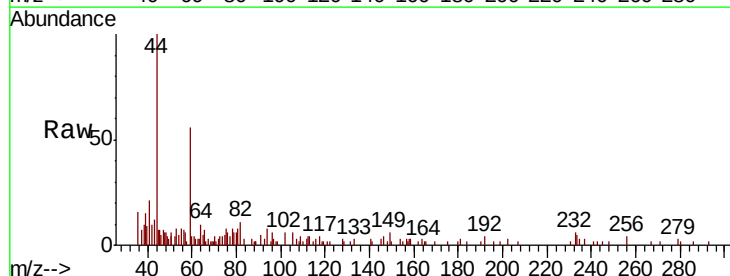
Acq: 22 Dec 2018 15:16

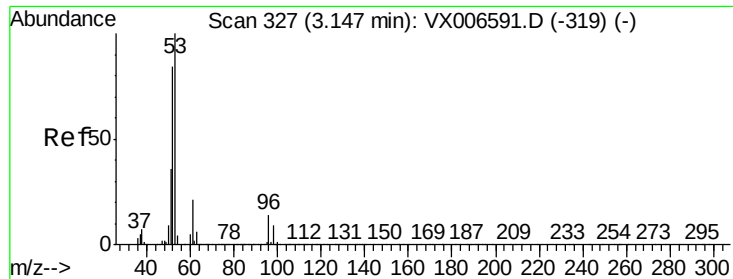
Tgt Ion: 59 Resp: 5101

Ion Ratio Lower Upper

59 100

57 8.4 8.5 12.7#





#15

Acrylonitrile

Concen: 0.250 ug/l

RT: 3.15 min Scan# 327

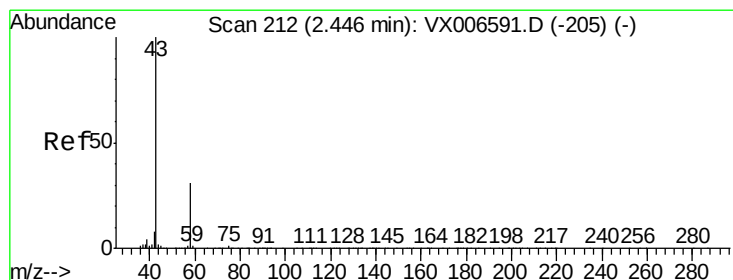
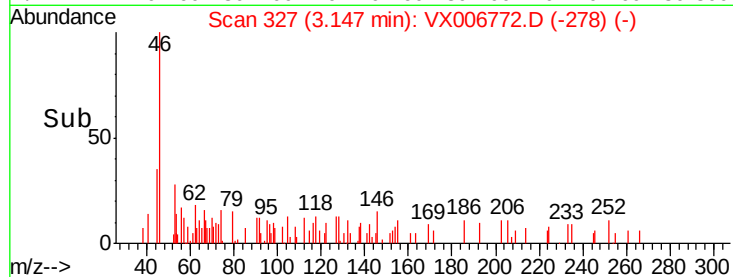
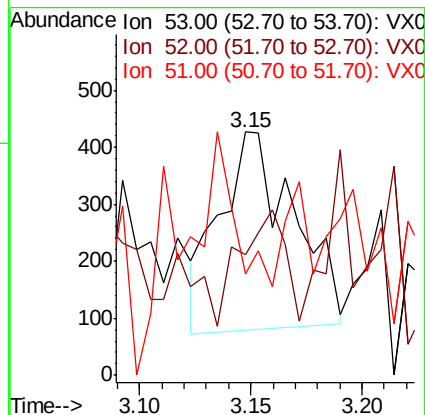
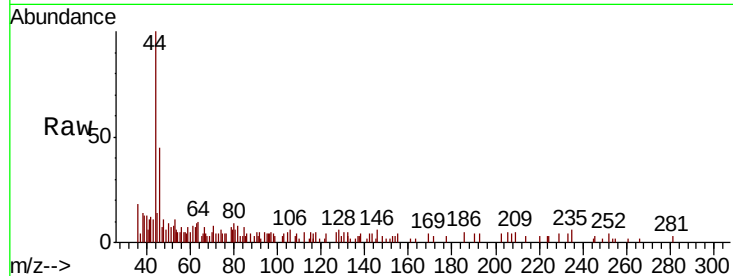
Delta R.T. -0.00 min

Lab File: VX006772.D

Acq: 22 Dec 2018 15:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	53	Resp:	807
Ion	Ratio	Lower	Upper
53	100		
52	0.0	66.0	99.0#
51	38.5	28.6	42.8



#16

Acetone

Concen: 3.609 ug/l

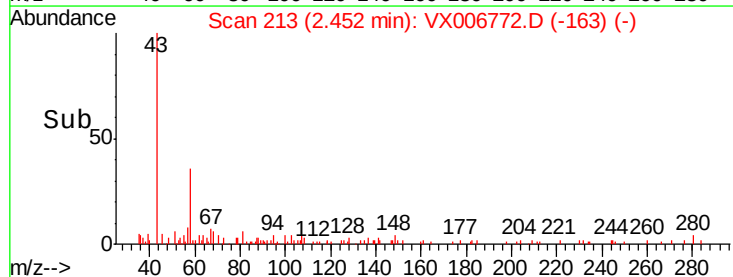
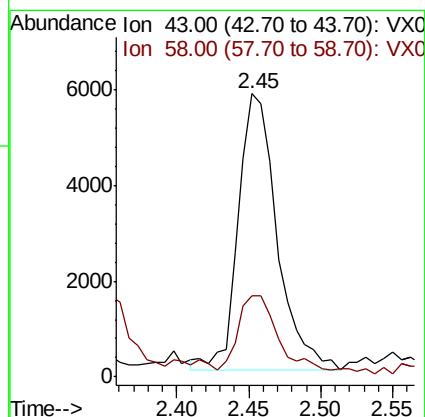
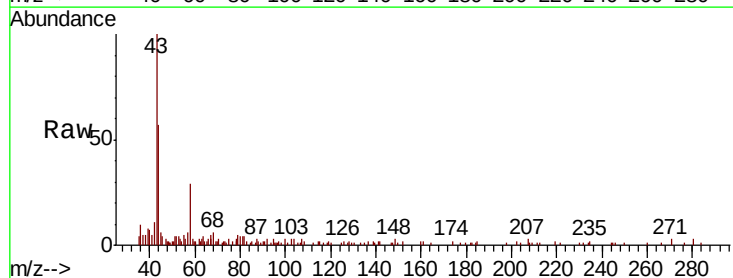
RT: 2.45 min Scan# 213

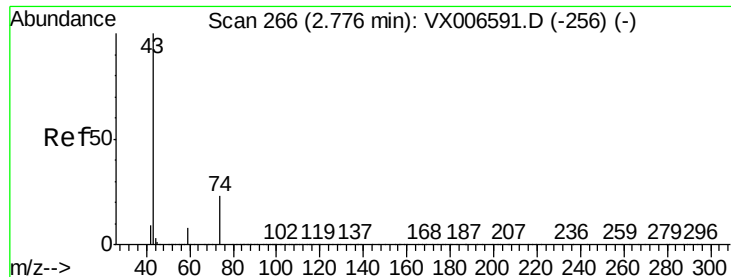
Delta R.T. 0.01 min

Lab File: VX006772.D

Acq: 22 Dec 2018 15:16

Tgt Ion:	43	Resp:	10781
Ion	Ratio	Lower	Upper
43	100		
58	26.4	25.0	37.6

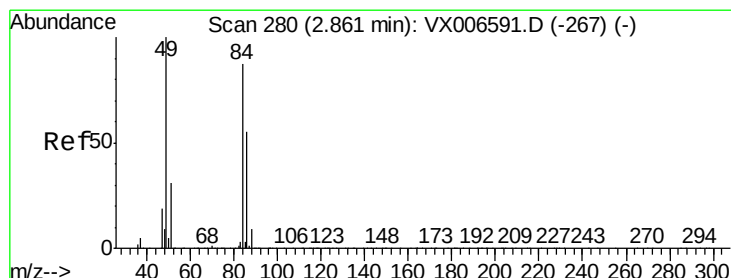
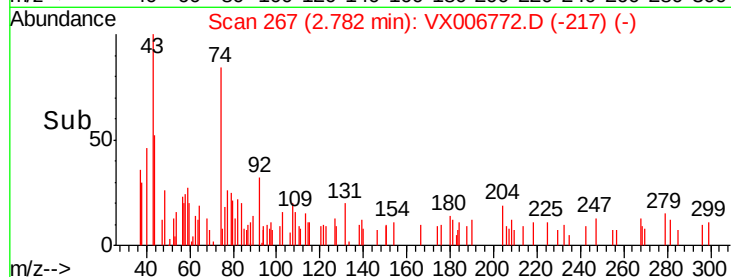
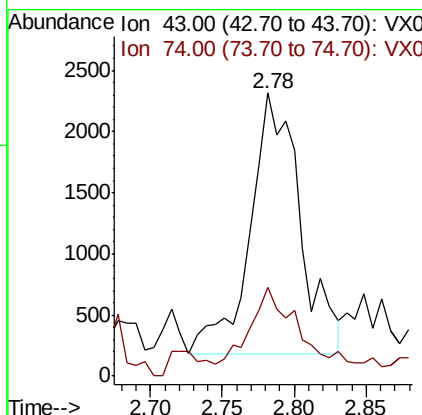
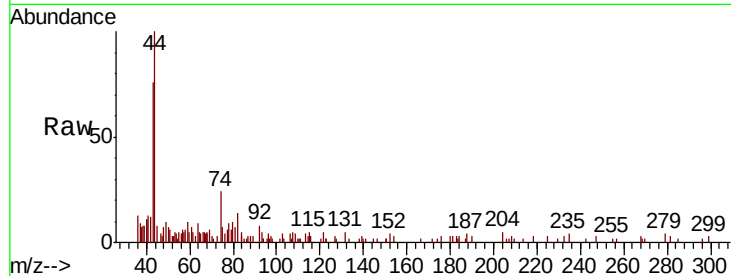




#18
Methyl Acetate
Concen: 0.590 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006772.D
Acq: 22 Dec 2018 15:16

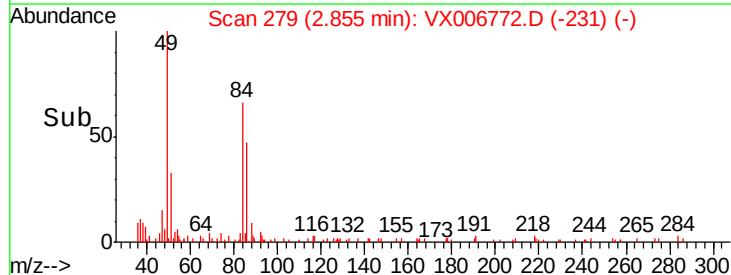
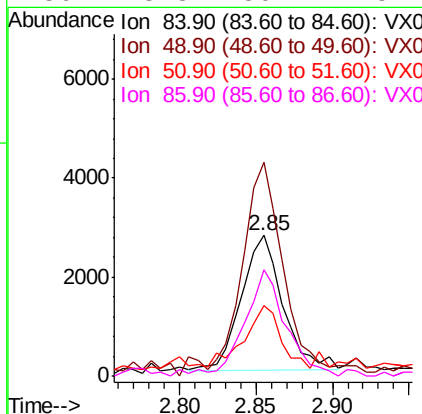
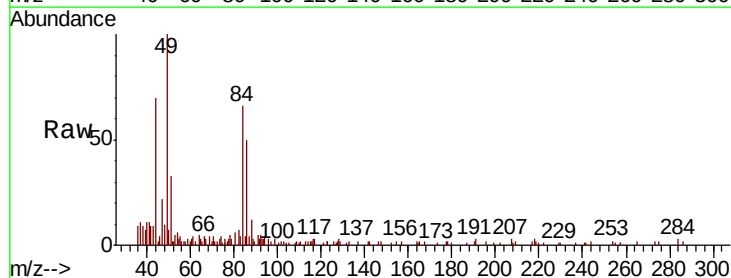
Instrument :
MSVOA_X
ClientSampled :

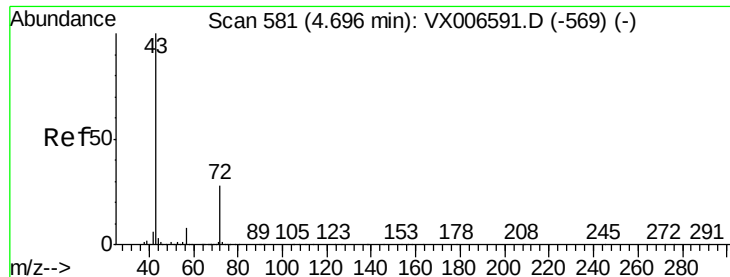
Tot Ion: 43 Resp: 5183
Ion Ratio Lower Upper
43 100
74 27.9 18.6 28.0



#20
Methylene Chloride
Concen: 0.834 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX006772.D
Acq: 22 Dec 2018 15:16

Tgt Ion: 84 Resp: 5150
Ion Ratio Lower Upper
84 100
49 144.5 91.8 137.6#
51 44.3 28.5 42.7#
86 78.8 50.2 75.2#





#25

2-Butanone

Concen: 2.317 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.02 min

Lab File: VX006772.D

Acq: 22 Dec 2018 15:16

Instrument :

MSVOA_X

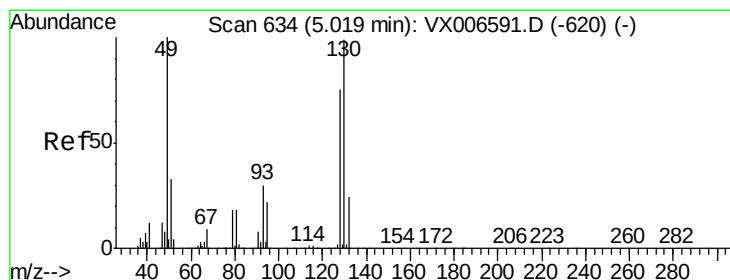
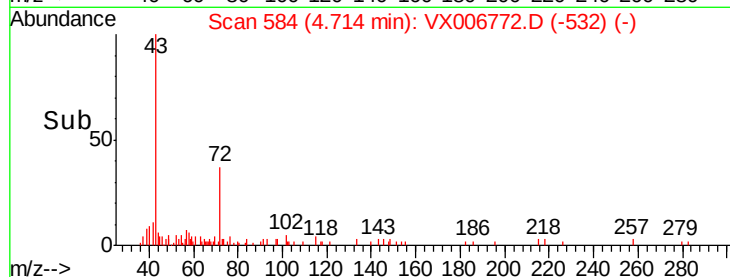
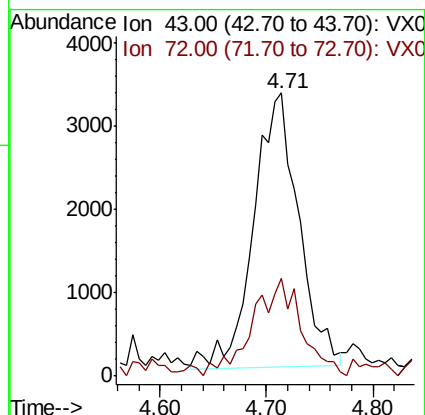
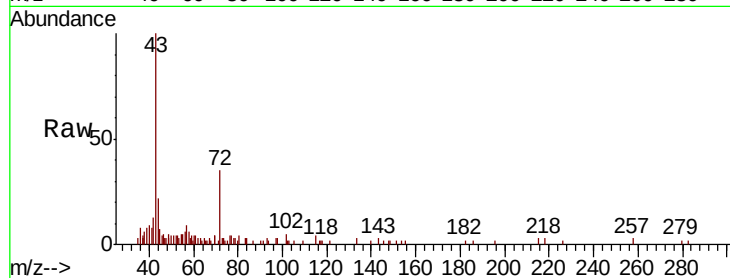
ClientSampleId :

Tot Ion: 43 Resp: 9735

Ion Ratio Lower Upper

43 100

72 34.4 22.4 33.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

Lab File: VX006772.D

Acq: 22 Dec 2018 15:16

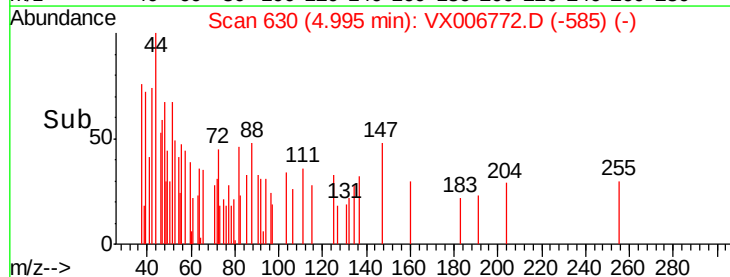
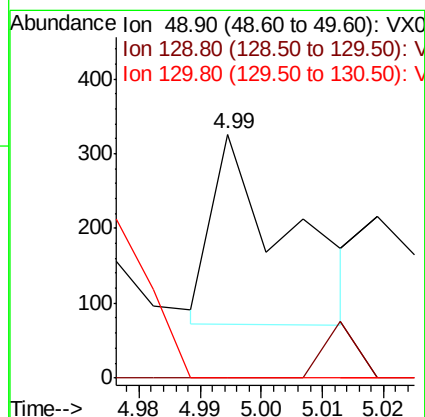
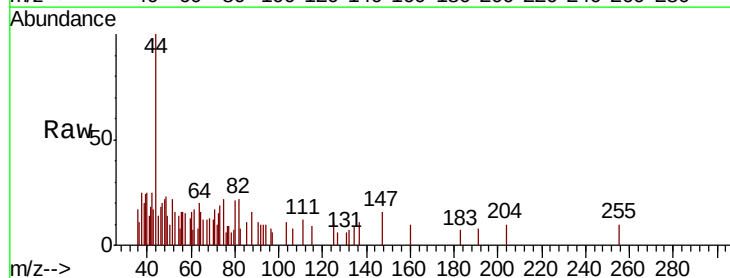
Tgt Ion: 49 Resp: 219

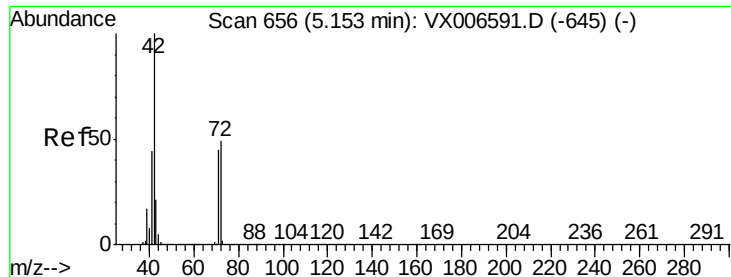
Ion Ratio Lower Upper

49 100

129 12.8 0.0 5.4#

130 0.0 77.7 116.5#





#29

Tetrahydrofuran

Concen: 0.363 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX006772.D

Acq: 22 Dec 2018 15:16

Instrument :

MSVOA_X

ClientSampled :

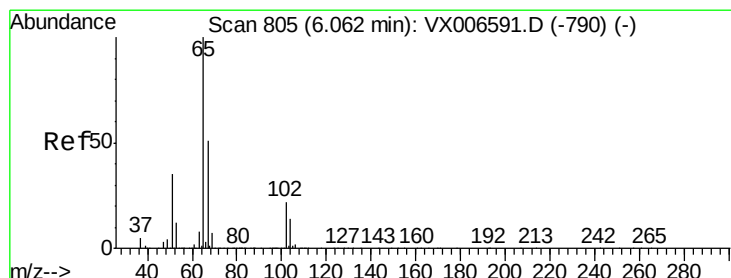
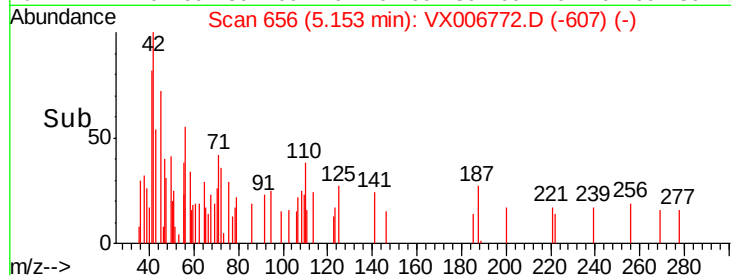
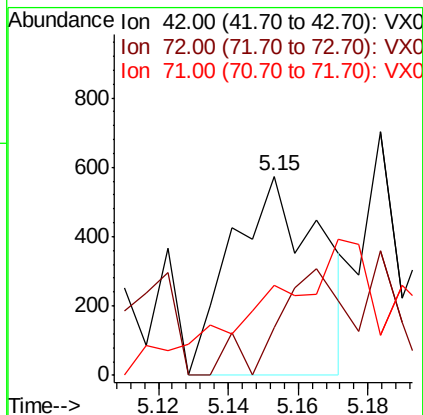
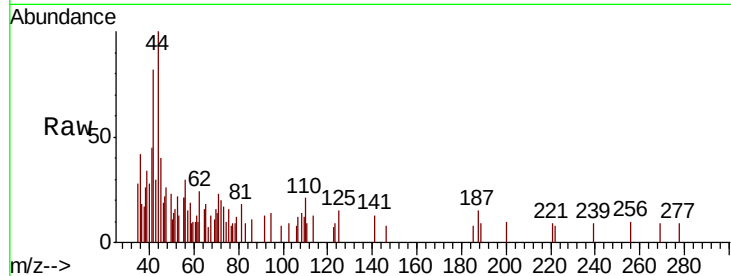
Tot Ion: 42 Resp: 1005

Ion Ratio Lower Upper

42 100

72 42.2 38.9 58.3

71 114.3 36.2 54.4#



#33

1,2-Dichloroethane-d4

Concen: 48.982 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006772.D

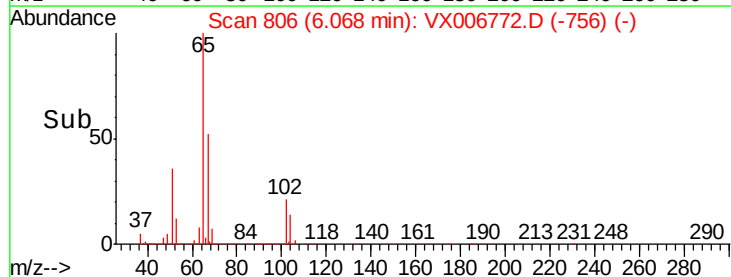
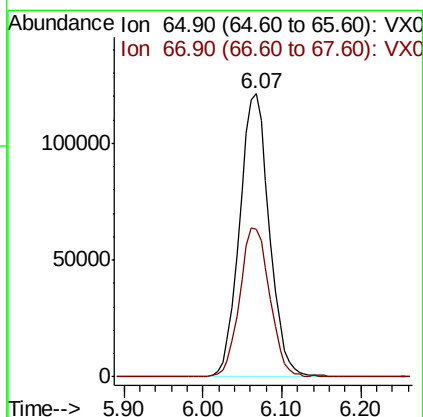
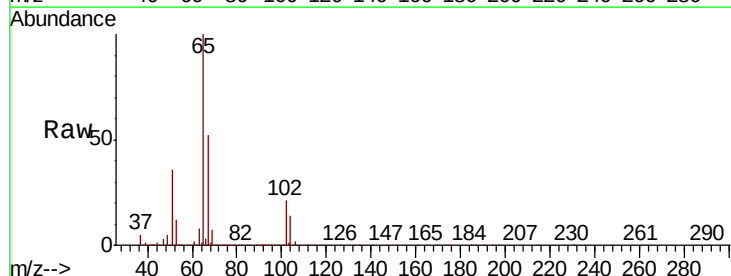
Acq: 22 Dec 2018 15:16

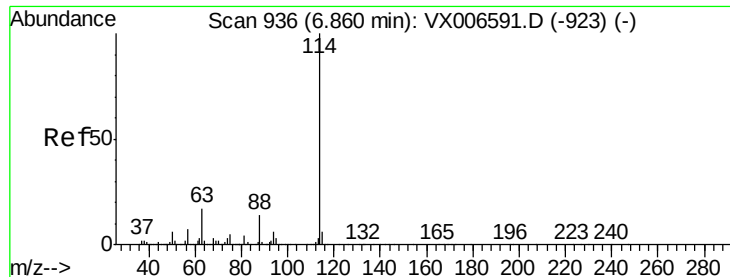
Tgt Ion: 65 Resp: 318497

Ion Ratio Lower Upper

65 100

67 53.2 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006772.D

Acq: 22 Dec 2018 15:16

Instrument :

MSVOA_X

ClientSampled :

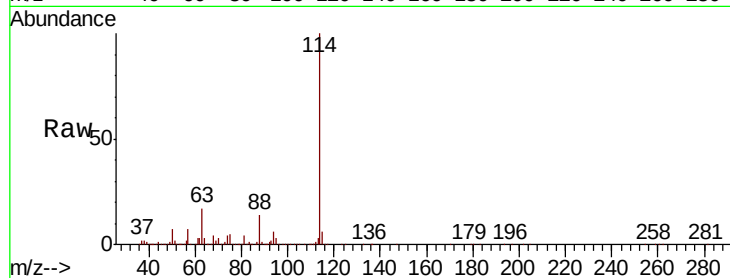
Tot Ion:114 Resp: 927388

Ion Ratio Lower Upper

114 100

63 17.4 0.0 34.8

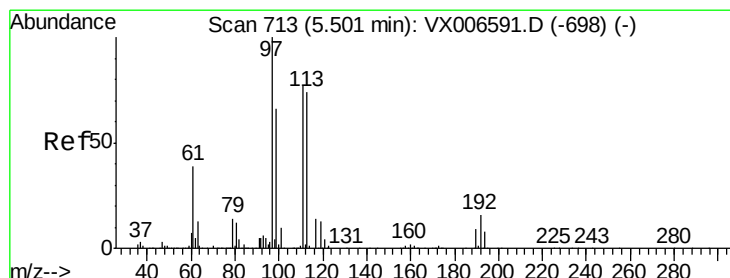
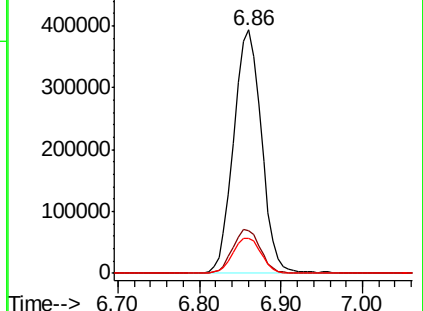
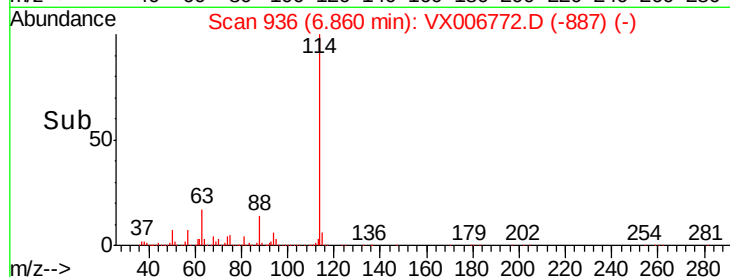
88 14.4 0.0 28.8



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: 46.669 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006772.D

Acq: 22 Dec 2018 15:16

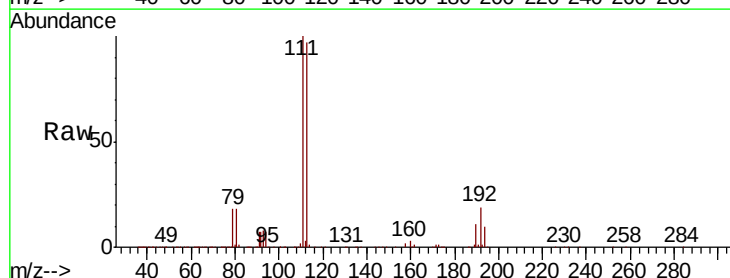
Tgt Ion:113 Resp: 273695

Ion Ratio Lower Upper

113 100

111 102.5 81.6 122.4

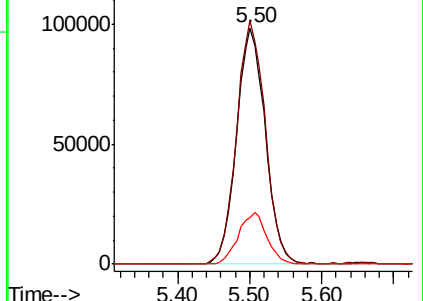
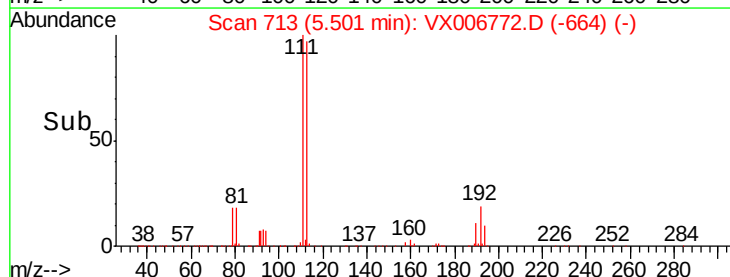
192 21.8 16.7 25.1

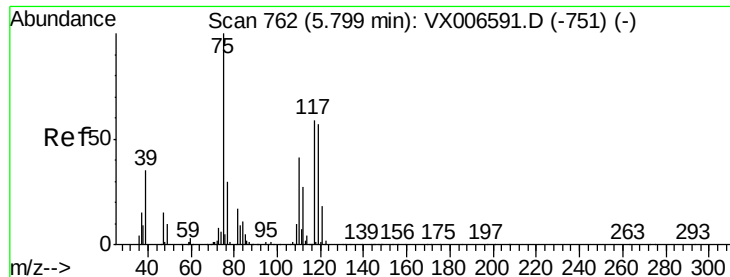


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

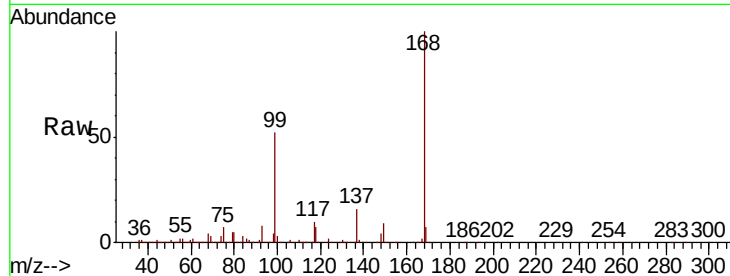




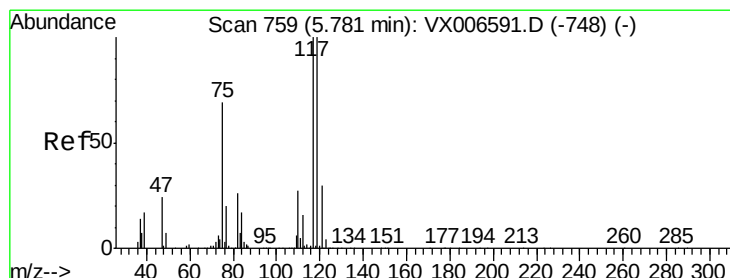
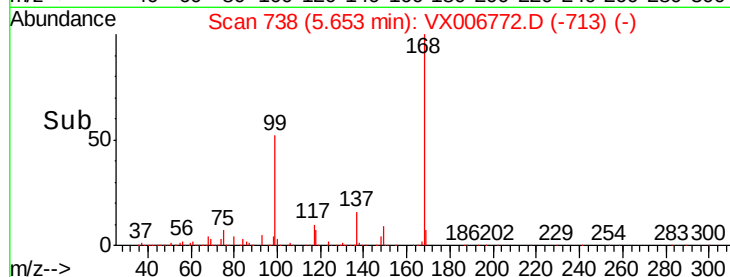
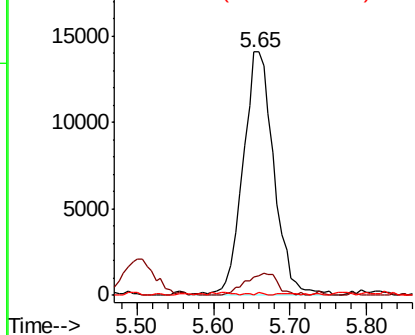
#36
 1,1-Dichloropropene
 Concen: 5.160 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.15 min
 Lab File: VX006772.D
 Acq: 22 Dec 2018 15:16

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.7	20.2	60.5#
77	0.4	24.8	37.2#

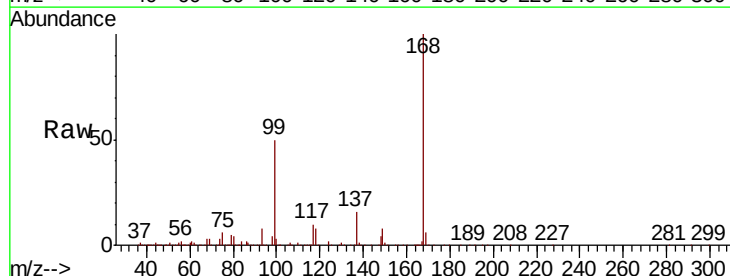


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

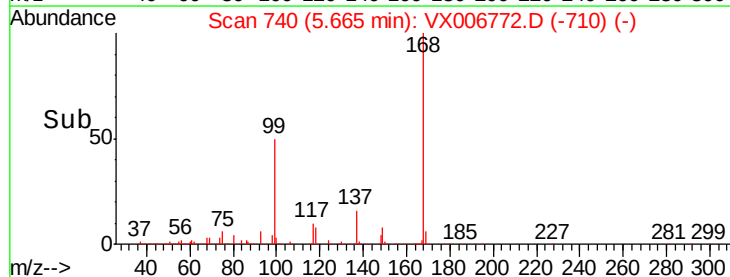
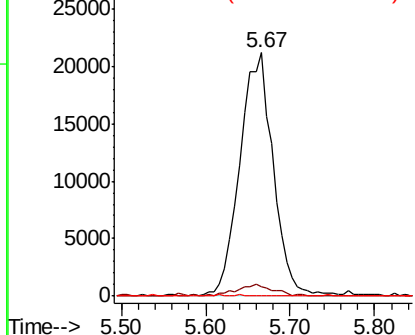


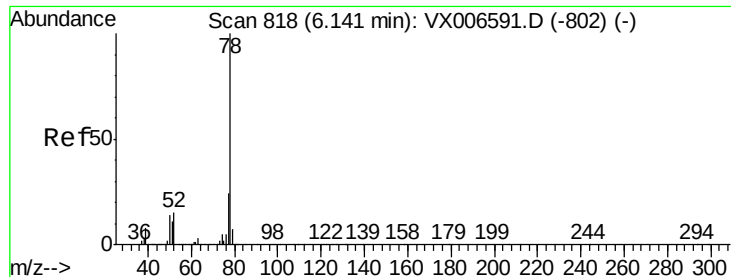
#38
 Carbon Tetrachloride
 Concen: 7.598 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX006772.D
 Acq: 22 Dec 2018 15:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.8	79.4	119.2#
121	0.0	24.0	36.0#



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





#40

Benzene

Concen: 0.216 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.00 min

Lab File: VX006772.D

Acq: 22 Dec 2018 15:16

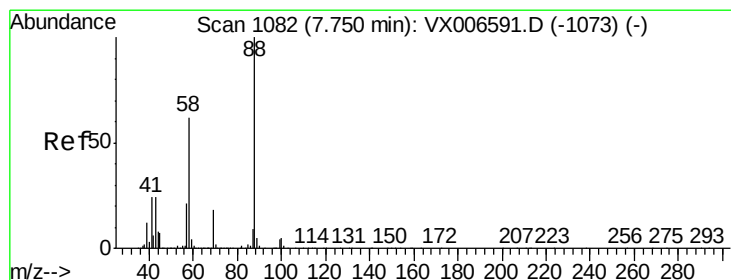
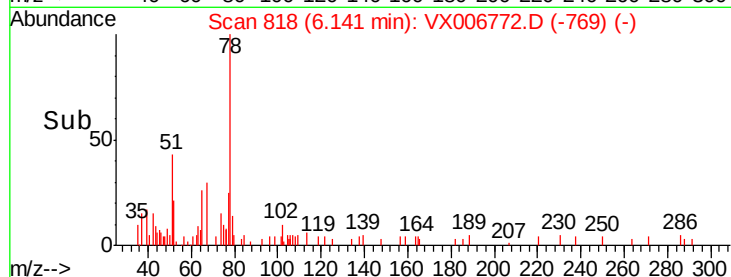
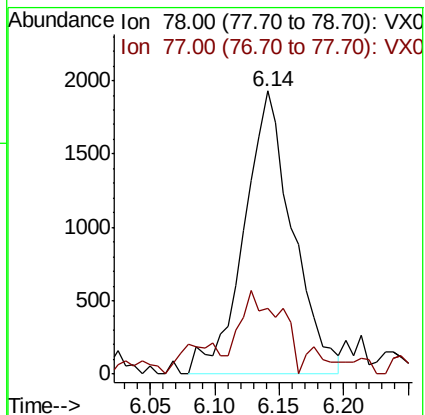
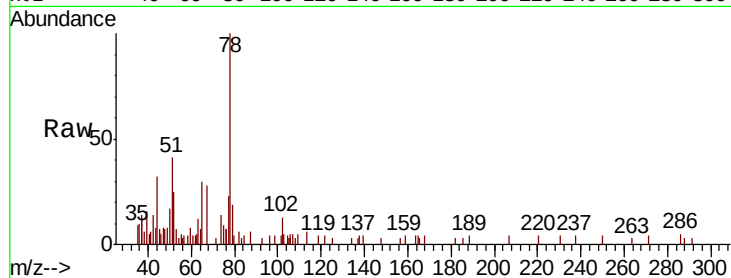
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 78 Resp: 5039

Ion Ratio Lower Upper

78 100

77 20.7 19.2 28.8



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.73 min Scan# 1079

Delta R.T. -0.02 min

Lab File: VX006772.D

Acq: 22 Dec 2018 15:16

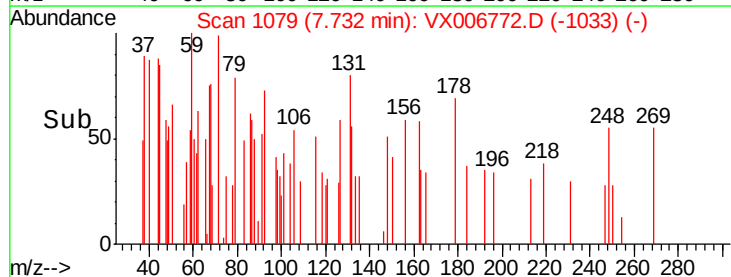
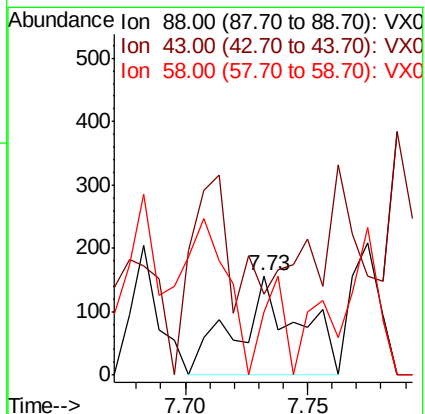
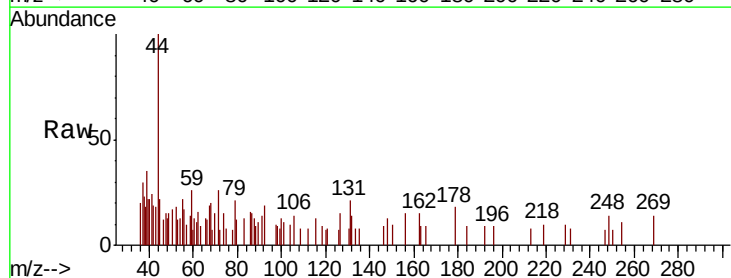
Tgt Ion: 88 Resp: 271

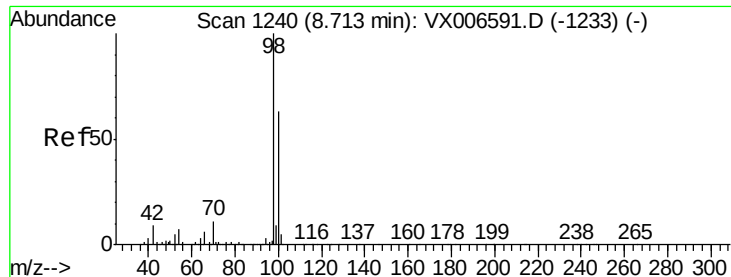
Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 34.3 51.0 76.4#





#50

Toluene-d8

Concen: 48.834 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006772.D

Acq: 22 Dec 2018 15:16

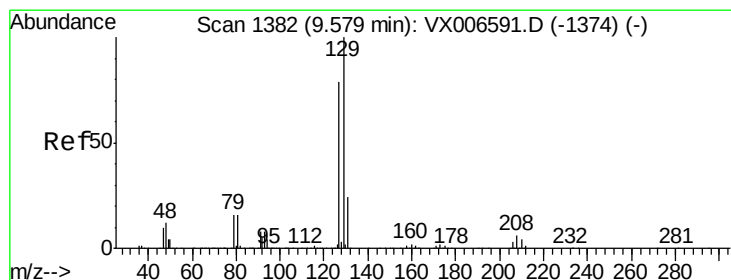
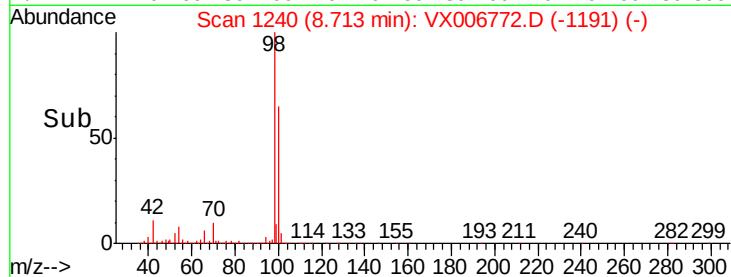
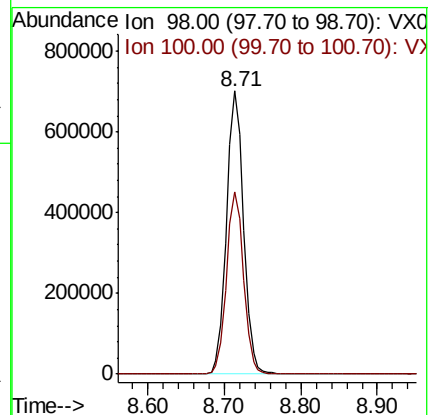
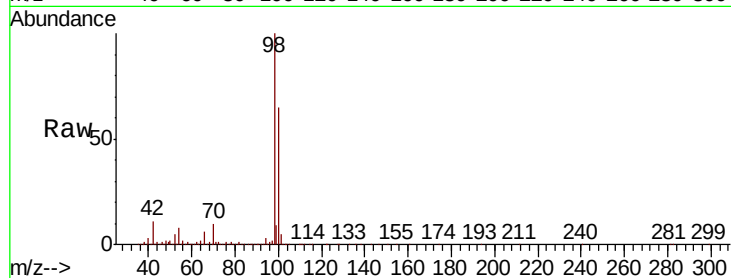
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 1079709

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0



#60

Dibromochloromethane

Concen: 2.338 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VX006772.D

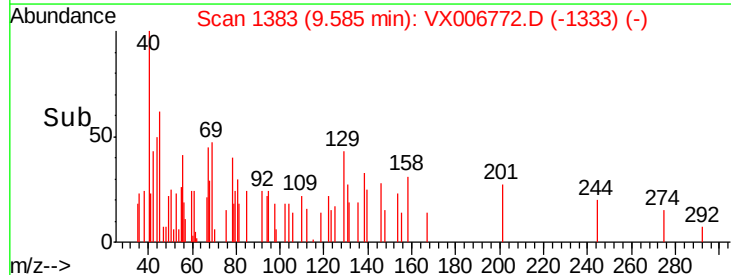
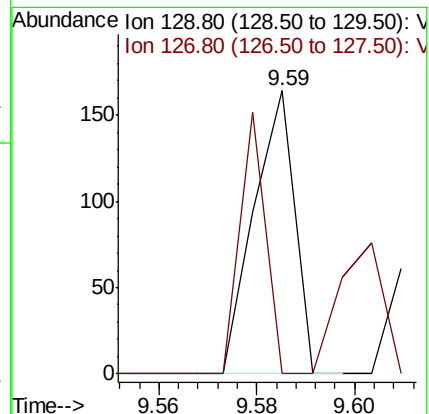
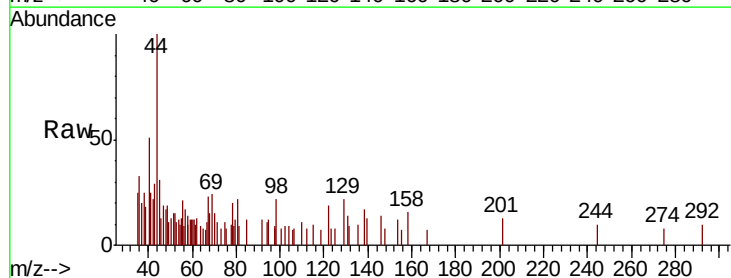
Acq: 22 Dec 2018 15:16

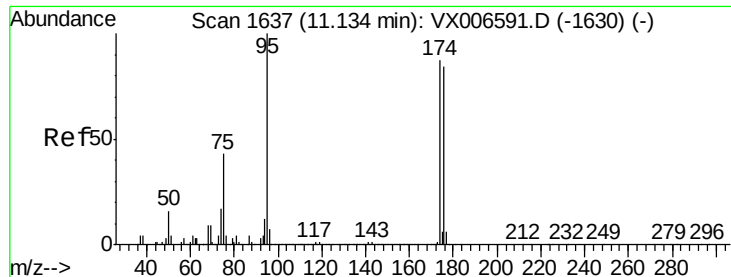
Tgt Ion: 129 Resp: 94

Ion Ratio Lower Upper

129 100

127 59.6 39.3 117.8

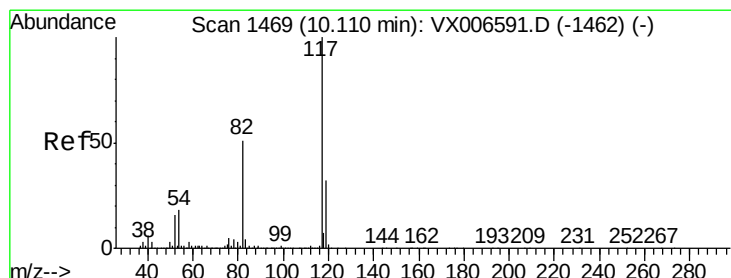
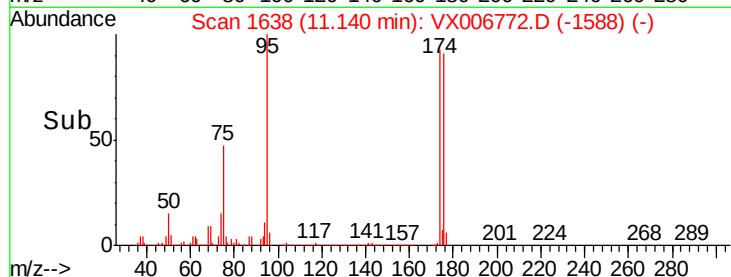
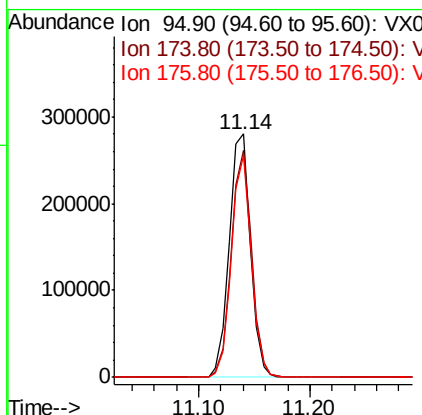
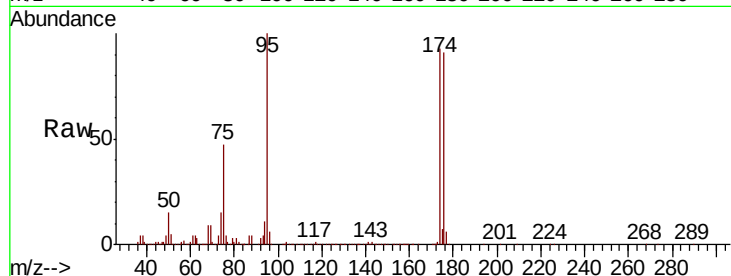




#62
4-Bromofluorobenzene
Concen: 45.772 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.01 min
Lab File: VX006772.D
Acq: 22 Dec 2018 15:16

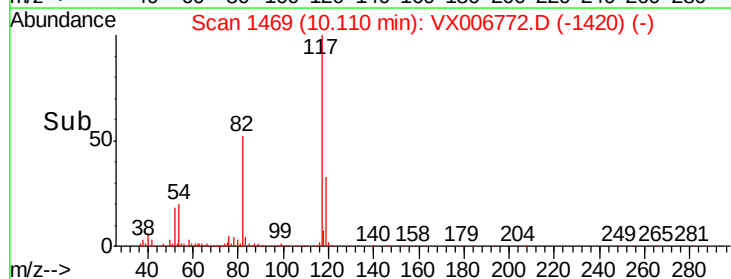
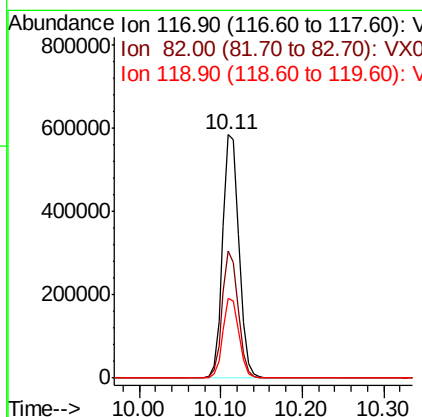
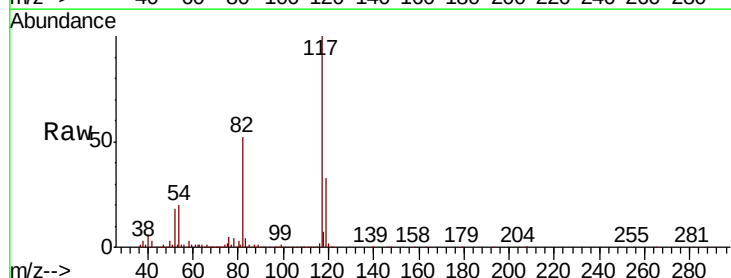
Instrument :
MSVOA_X
ClientSampleId :

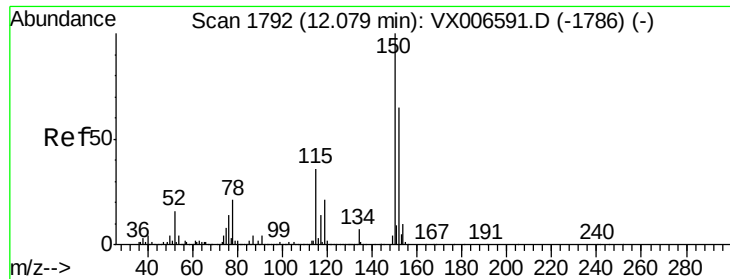
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.2	0.0	182.2
176	85.7	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX006772.D
Acq: 22 Dec 2018 15:16

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.2	41.0	61.6
119	32.7	25.4	38.0

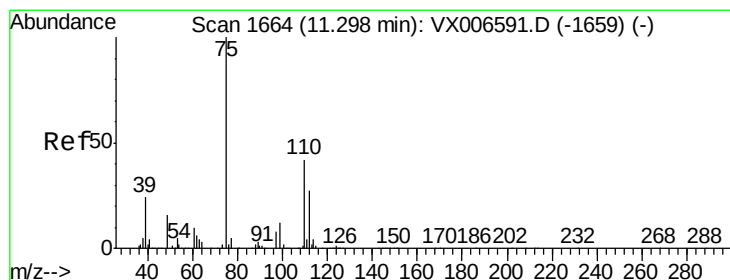
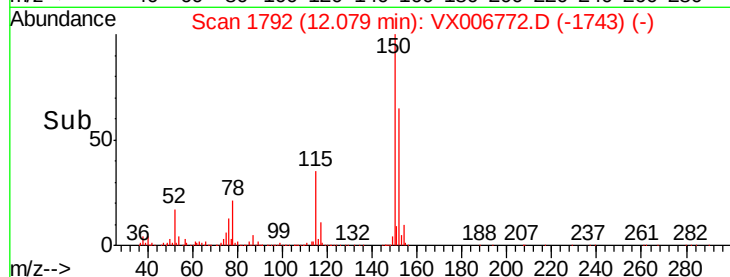
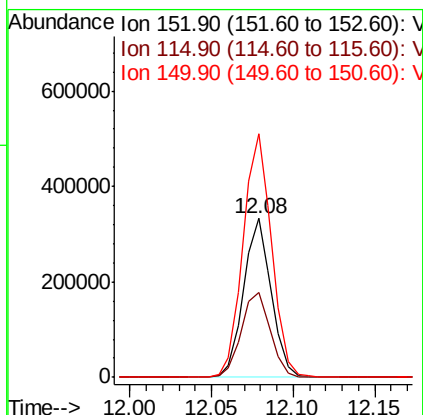
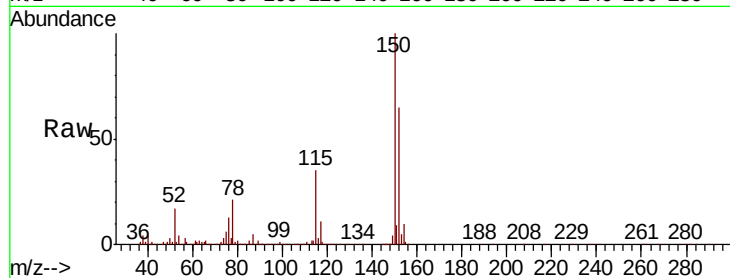




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX006772.D
 Acq: 22 Dec 2018 15:16

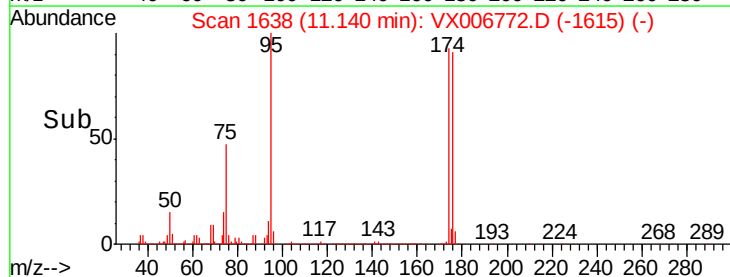
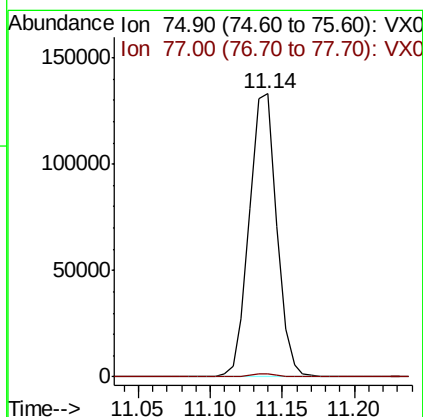
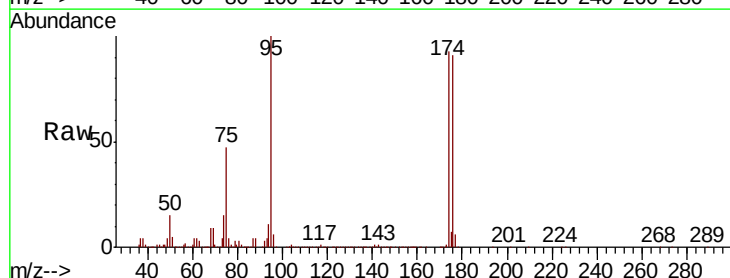
Instrument :
 MSVOA_X
 ClientSampleId :

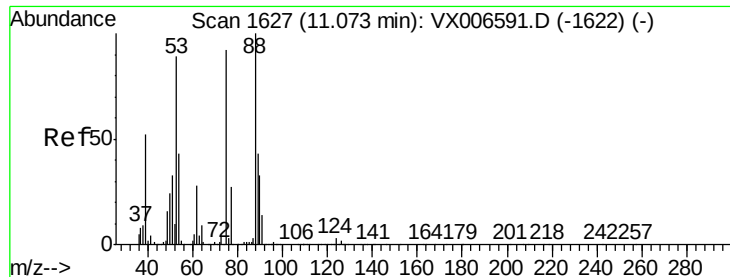
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.8	39.1	117.2
150	158.2	0.0	344.8



#76
 1,2,3-Trichloropropane
 Concen: 23.950 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX006772.D
 Acq: 22 Dec 2018 15:16

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	18.5	55.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 70.949 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX006772.D

Acq: 22 Dec 2018 15:16

Instrument :

MSVOA_X

ClientSampleId :

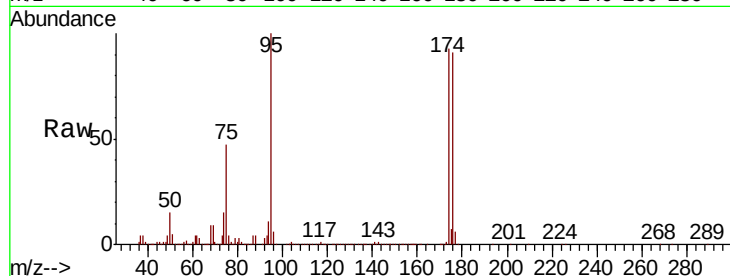
Tot Ion: 75 Resp: 175287

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

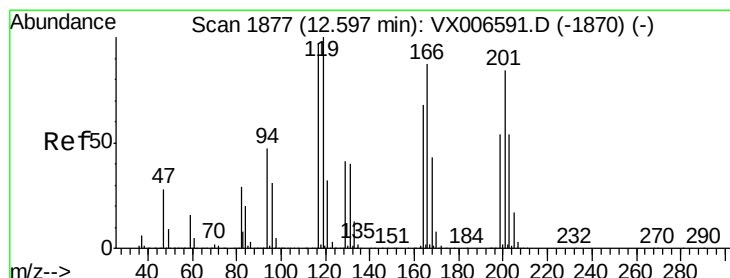
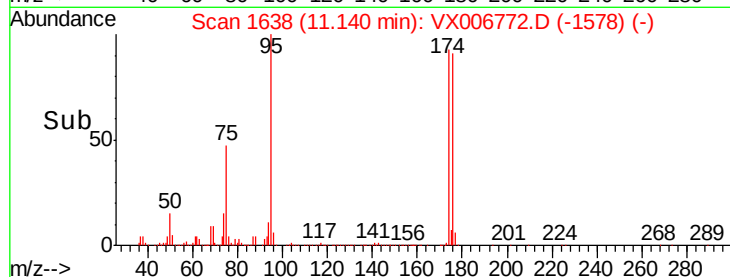
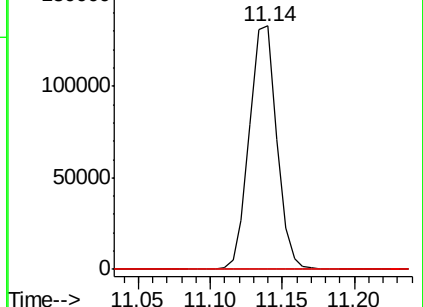
89 0.0 38.0 57.0#



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



#90

Hexachloroethane

Concen: 3.323 ug/l

RT: 12.55 min Scan# 1869

Delta R.T. -0.05 min

Lab File: VX006772.D

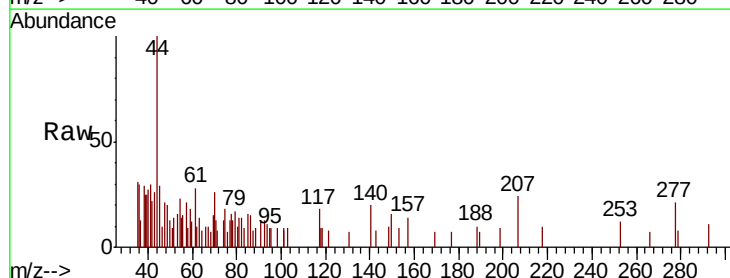
Acq: 22 Dec 2018 15:16

Tgt Ion: 117 Resp: 121

Ion Ratio Lower Upper

117 100

201 55.4 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

