

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006700.D
 Acq On : 21 Dec 2018 02:54
 Operator : JC/MD
 Sample : J6514-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 21 03:39:39 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

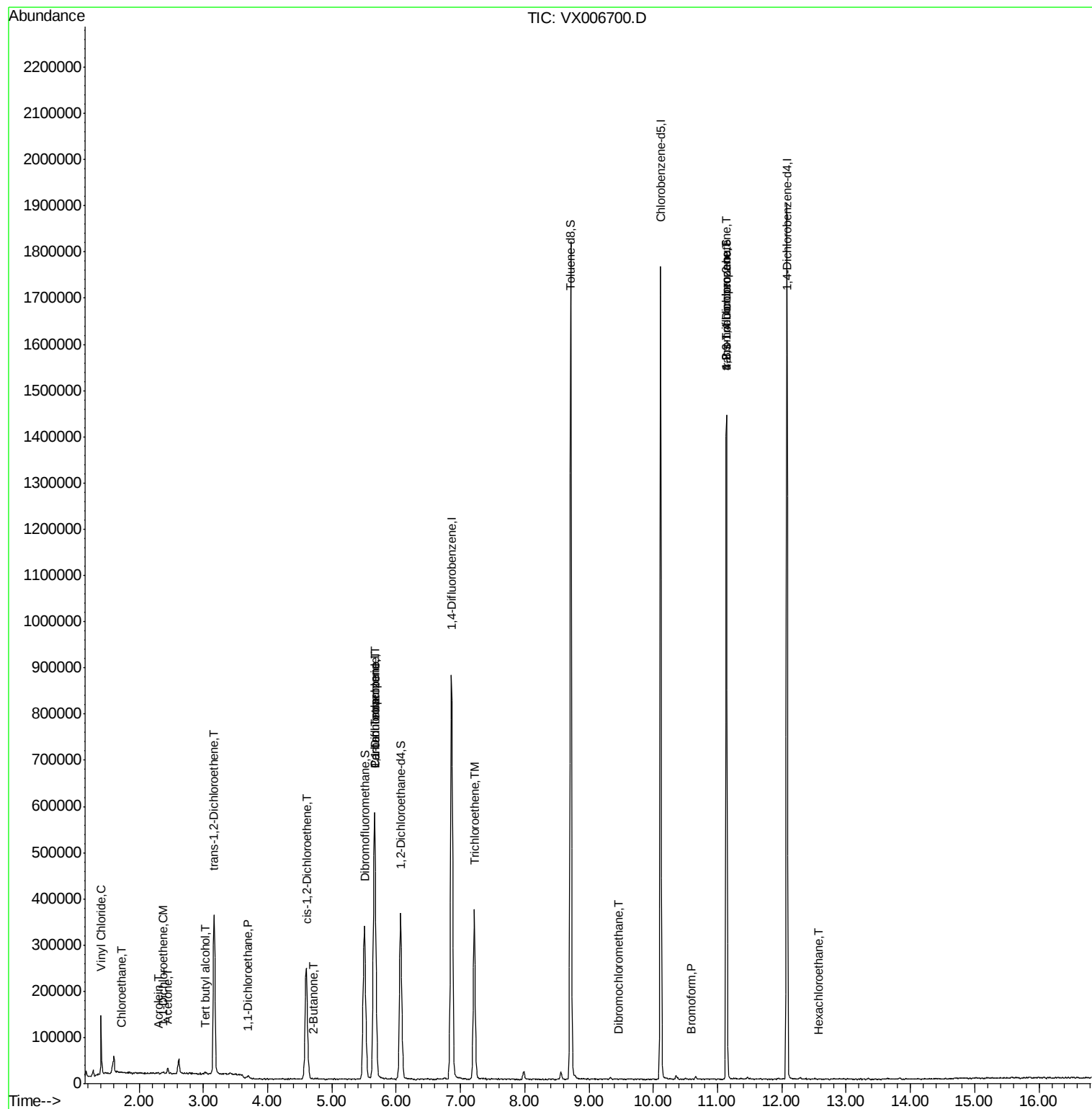
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	593450	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	934228	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	856100	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	397304	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	325271	50.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.72%	
35) Dibromofluoromethane	5.51	113	286513	48.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.00%	
50) Toluene-d8	8.71	98	1107823	49.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.48%	
62) 4-Bromofluorobenzene	11.13	95	389967	47.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.62%	
Target Compounds				Qvalue		
4) Vinyl Chloride	1.41	62	76705	12.557	ug/l	99
5) Bromomethane	1.65	94	604	Below Cal	#	57
6) Chloroethane	1.74	64	1297	0.307	ug/l #	70
11) Tert butyl alcohol	3.03	59	2744	1.922	ug/l #	85
12) 1,1-Dichloroethene	2.37	96	1430	0.270	ug/l	93
13) Acrolein	2.30	56	487	0.506	ug/l #	64
16) Acetone	2.45	43	12565	4.276	ug/l	91
21) trans-1,2-Dichloroethene	3.17	96	146334	24.908	ug/l	99
24) 1,1-Dichloroethane	3.70	63	6542	0.671	ug/l	95
25) 2-Butanone	4.71	43	2235	0.541	ug/l #	86
27) cis-1,2-Dichloroethene	4.60	96	165186	25.484	ug/l	92
28) Bromochloromethane	5.03	49	430	Below Cal	#	20
36) 1,1-Dichloropropene	5.66	75	38999	5.040	ug/l #	49
38) Carbon Tetrachloride	5.66	117	55678	7.404	ug/l #	16
44) Trichloroethene	7.21	130	145397	20.425	ug/l	97
49) 1,4-Dioxane	7.73	88	69	Below Cal	#	27
60) Dibromochloromethane	9.46	129	72	2.335	ug/l	77
71) Bromoform	10.60	173	135	4.484	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	184381	24.972	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	184381	73.796	ug/l #	10
90) Hexachloroethane	12.57	117	144	3.329	ug/l	61

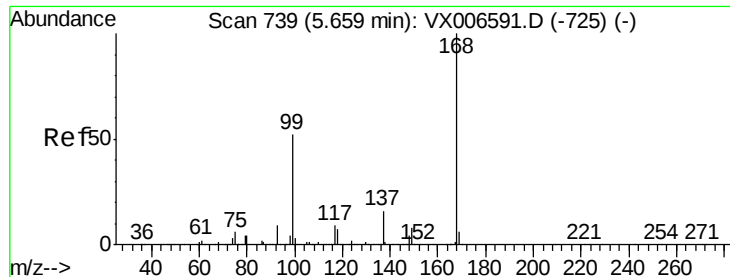
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampled :

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
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# 740

Delta R.T. 0.01 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

Instrument :

MSVOA_X

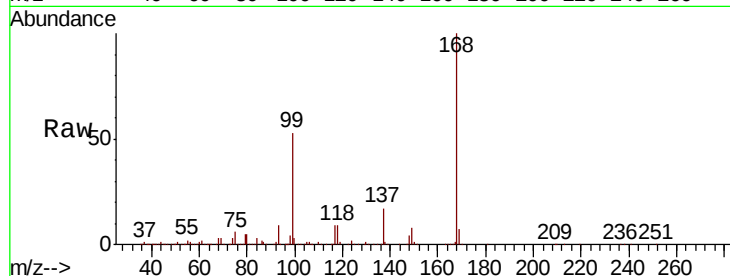
ClientSampleId :

Tot Ion:168 Resp: 593450

Ion Ratio Lower Upper

168 100

99 53.1 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

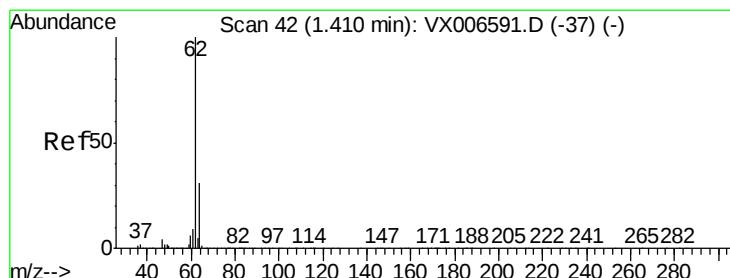
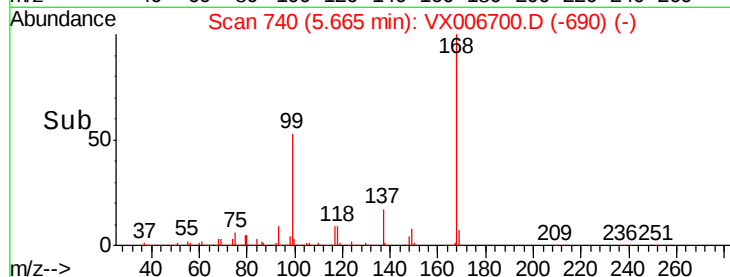
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 12.557 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006700.D

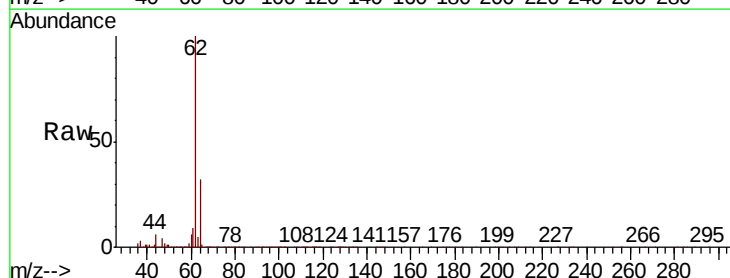
Acq: 21 Dec 2018 02:54

Tgt Ion: 62 Resp: 76705

Ion Ratio Lower Upper

62 100

64 30.9 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

80000

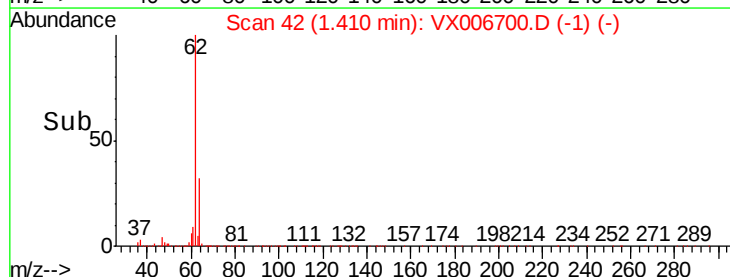
60000

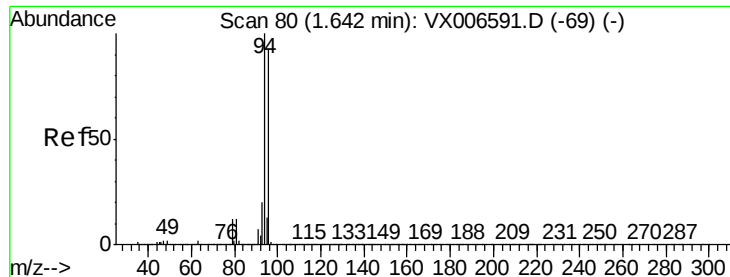
40000

20000

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

Instrument :

MSVOA_X

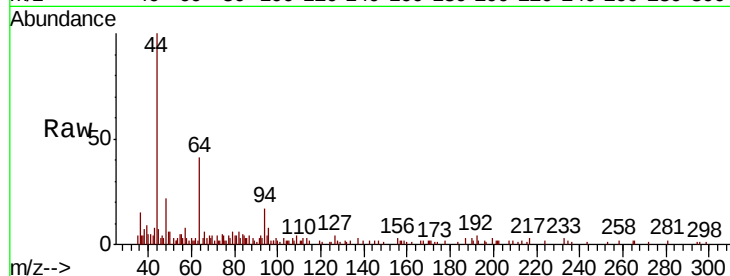
ClientSampleId :

Tot Ion: 94 Resp: 604

Ion Ratio Lower Upper

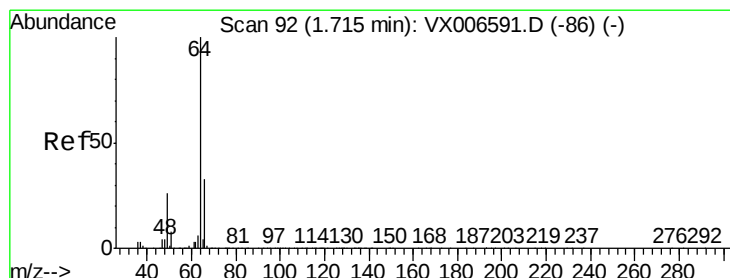
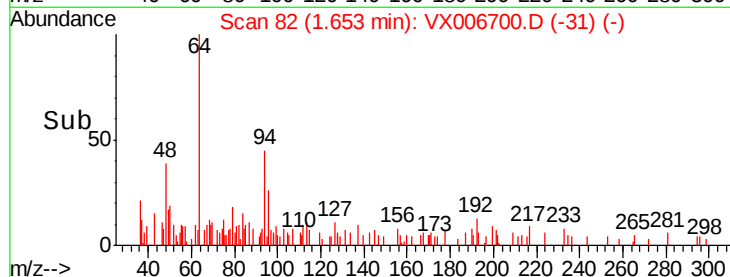
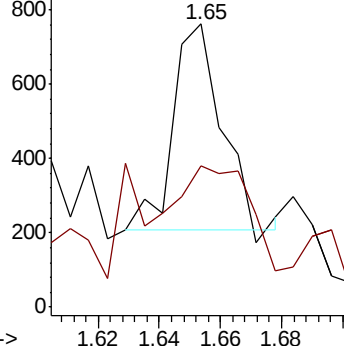
94 100

96 51.0 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.307 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX006700.D

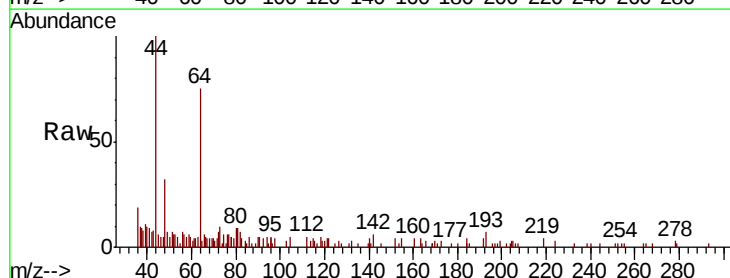
Acq: 21 Dec 2018 02:54

Tgt Ion: 64 Resp: 1297

Ion Ratio Lower Upper

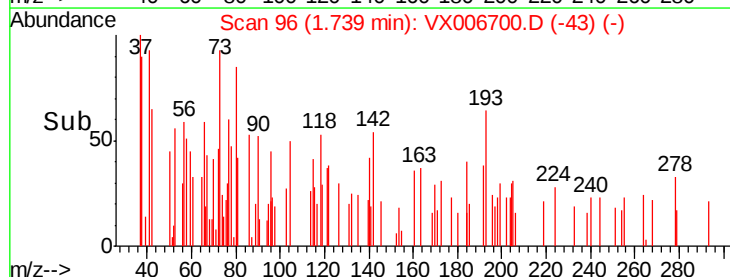
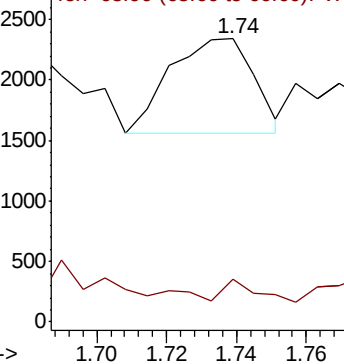
64 100

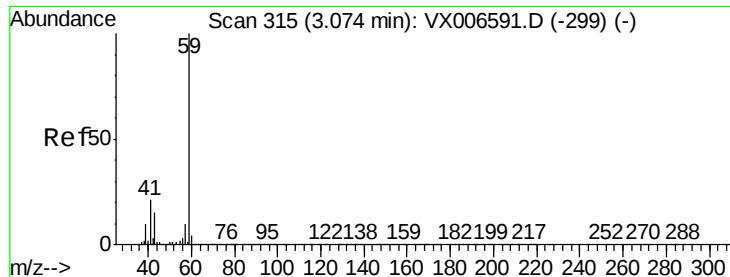
66 15.9 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

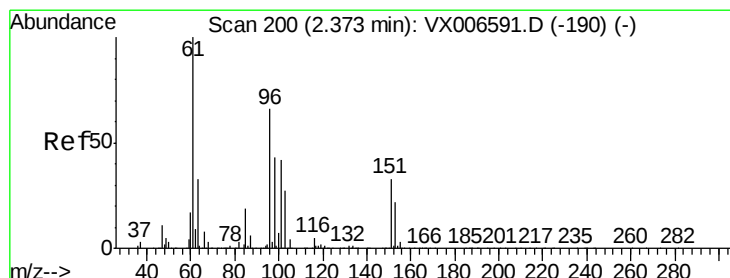
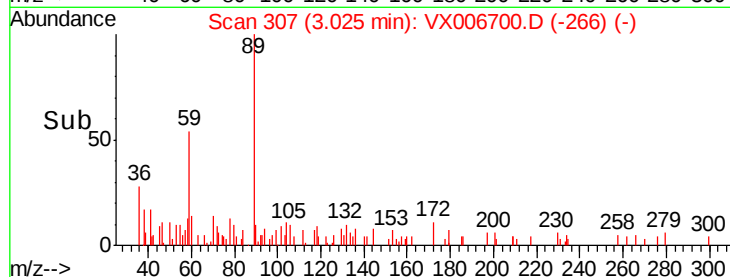
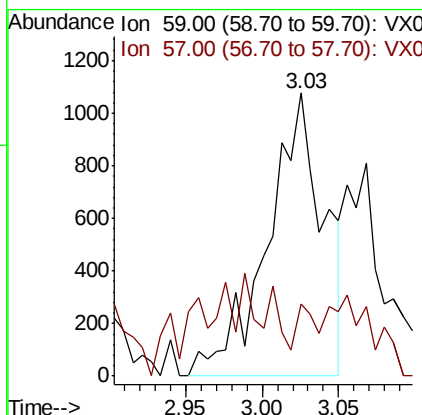
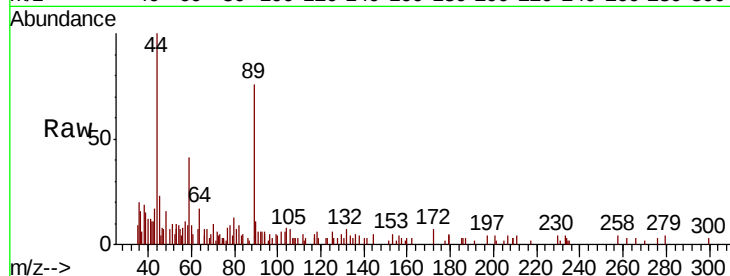




#11
Tert butyl alcohol
Concen: 1.922 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006700.D
Acq: 21 Dec 2018 02:54

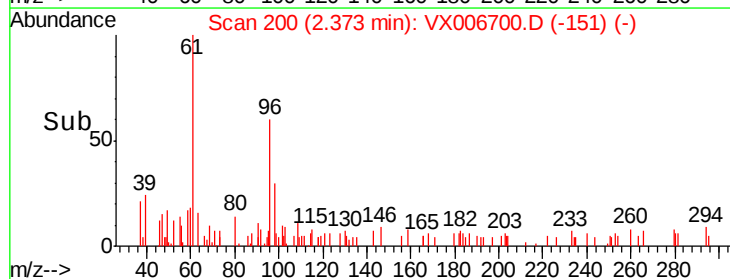
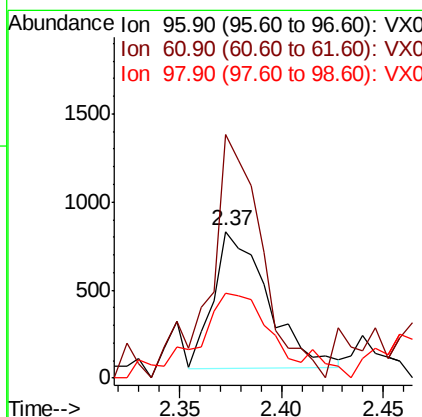
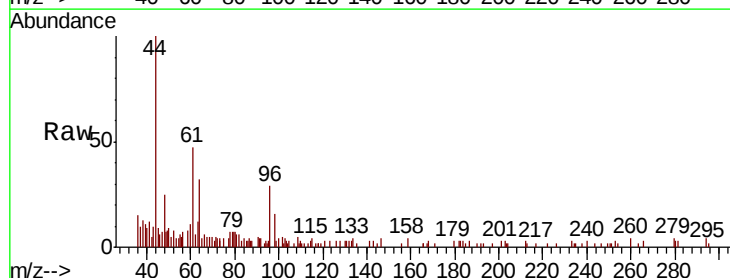
Instrument :
MSVOA_X
ClientSampled :

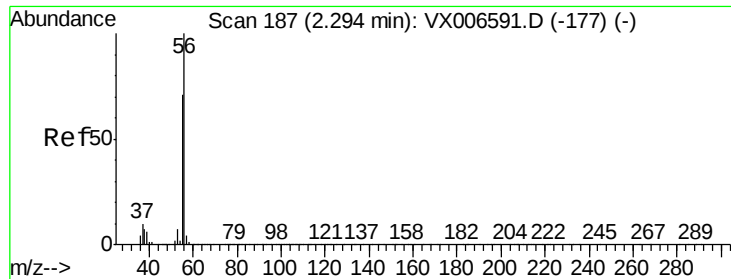
Tot Ion: 59 Resp: 2744
Ion Ratio Lower Upper
59 100
57 5.1 8.5 12.7#



#12
1,1-Dichloroethene
Concen: 0.270 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX006700.D
Acq: 21 Dec 2018 02:54

Tgt Ion: 96 Resp: 1430
Ion Ratio Lower Upper
96 100
61 157.2 121.4 182.2
98 53.7 51.9 77.9





#13

Acrolein

Concen: 0.506 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

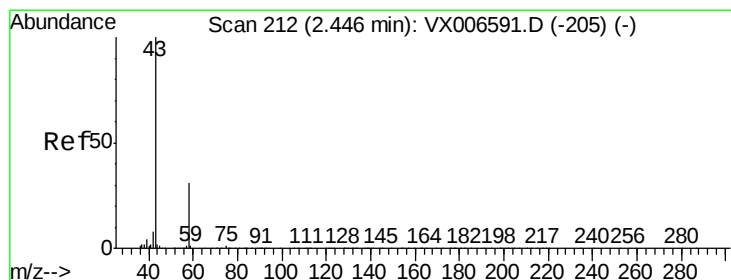
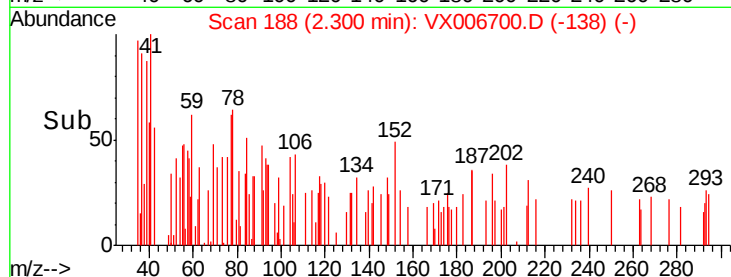
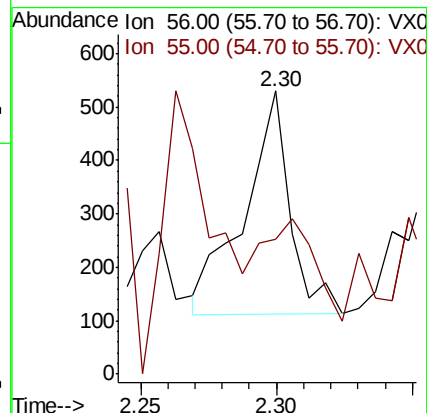
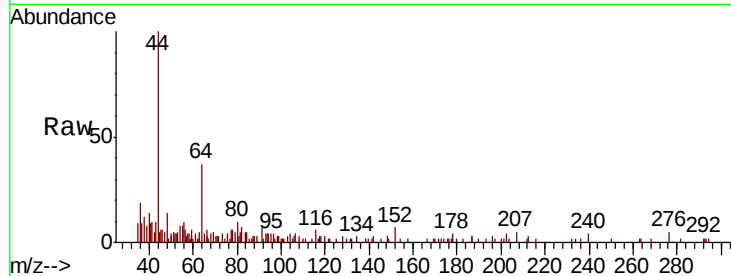
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 487

Ion Ratio Lower Upper

56 100

55 42.9 58.2 87.4#



#16

Acetone

Concen: 4.276 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006700.D

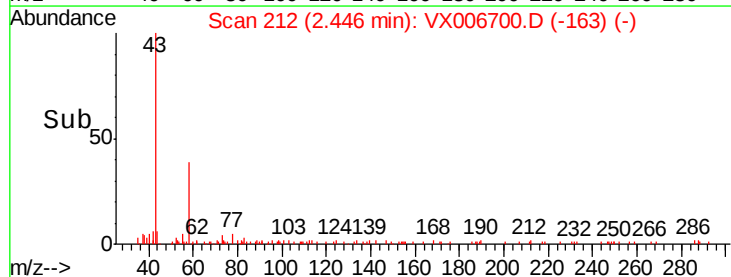
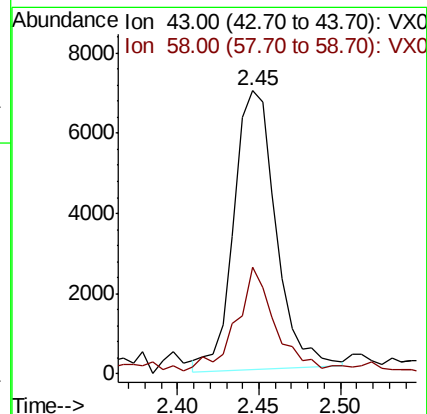
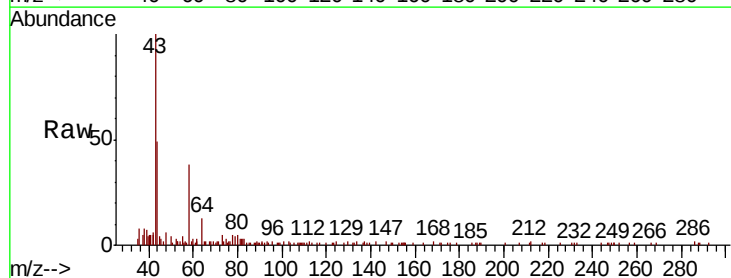
Acq: 21 Dec 2018 02:54

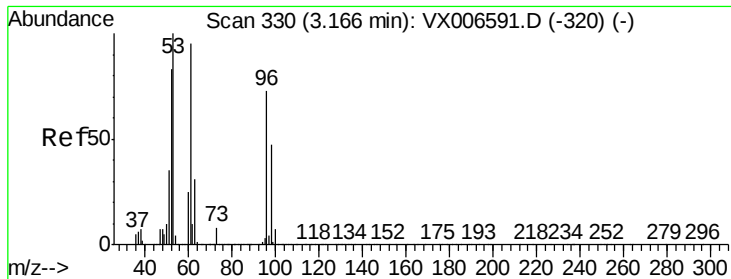
Tgt Ion: 43 Resp: 12565

Ion Ratio Lower Upper

43 100

58 36.3 25.0 37.6





#21

trans-1,2-Dichloroethene

Concen: 24.908 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

Instrument :
MSVOA_X
ClientSampleId :

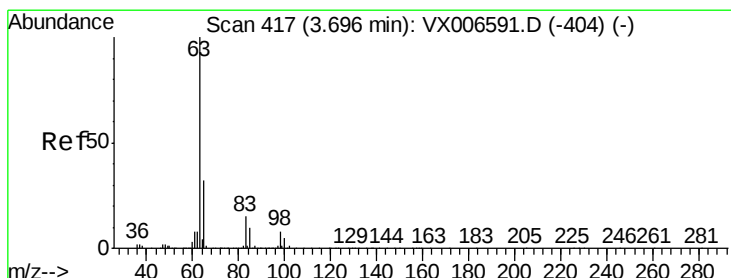
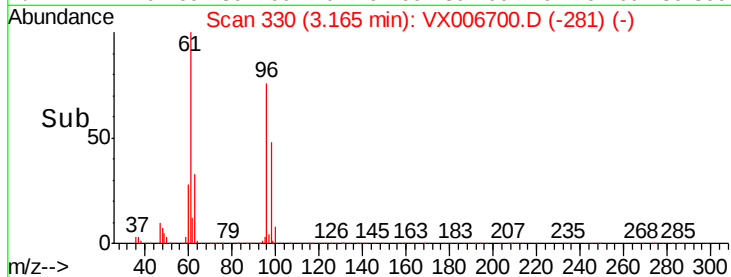
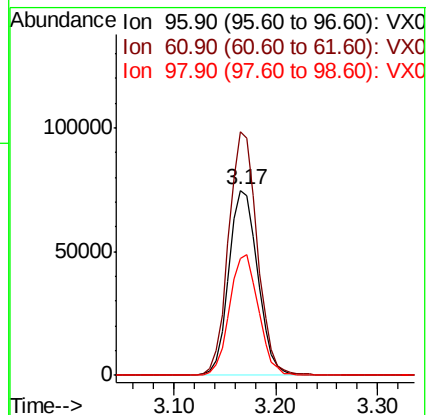
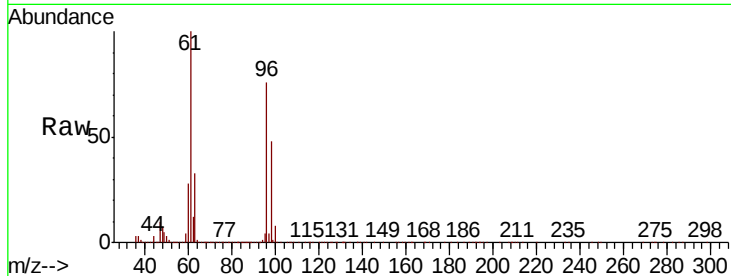
Tot Ion: 96 Resp: 146334

Ion Ratio Lower Upper

96 100

61 131.8 103.7 155.5

98 63.4 51.0 76.6



#24

1,1-Dichloroethane

Concen: 0.671 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

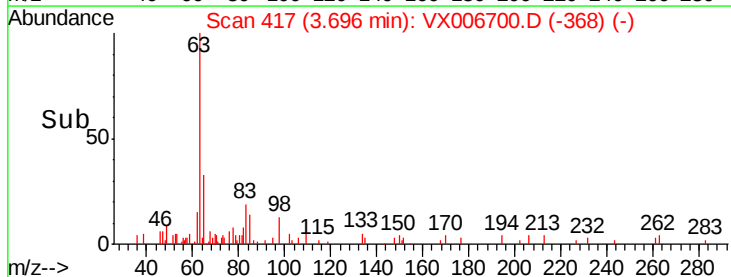
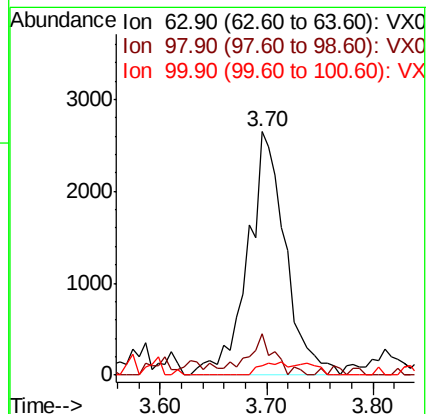
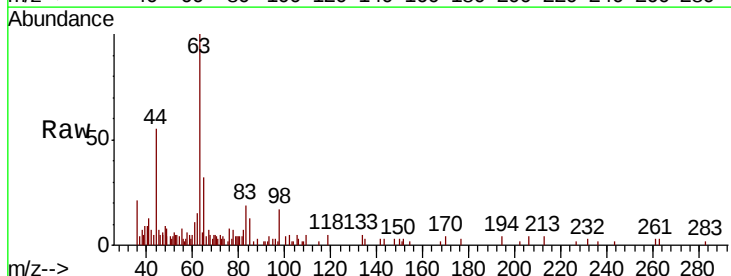
Tgt Ion: 63 Resp: 6542

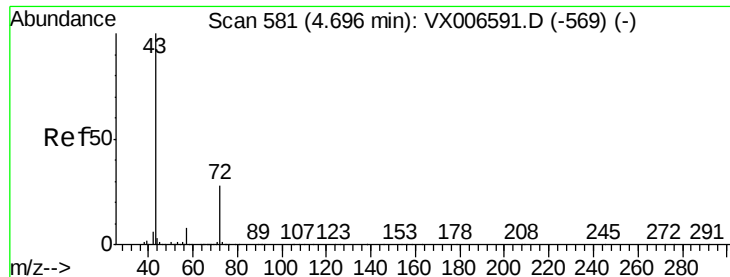
Ion Ratio Lower Upper

63 100

98 10.1 3.9 11.5

100 4.0 2.4 7.2

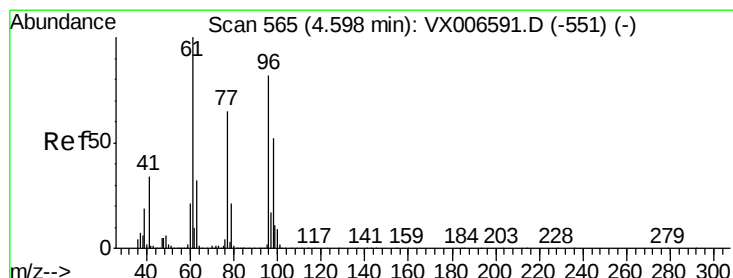
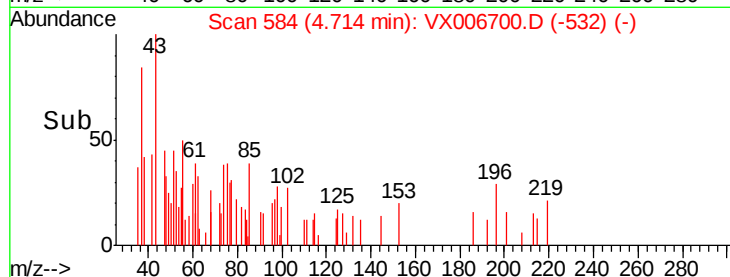
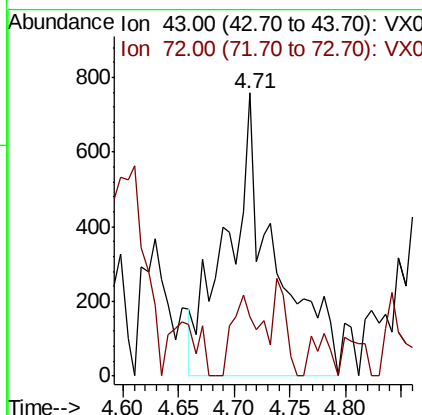
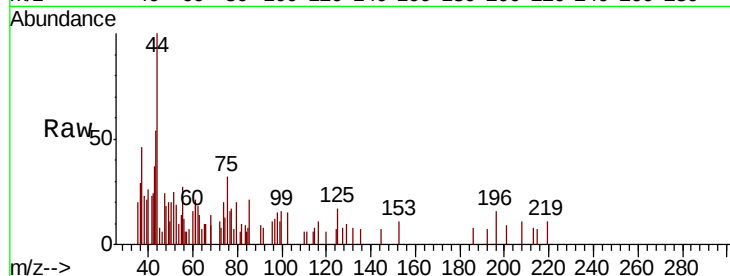




#25
2-Butanone
Concen: 0.541 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.02 min
Lab File: VX006700.D
Acq: 21 Dec 2018 02:54

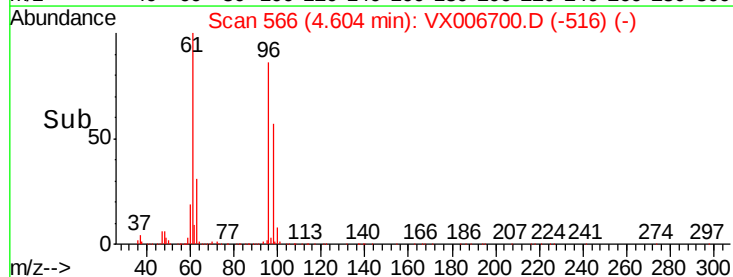
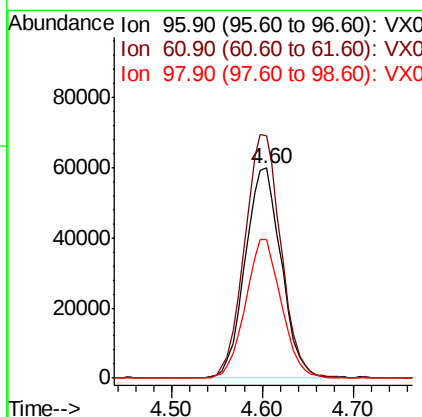
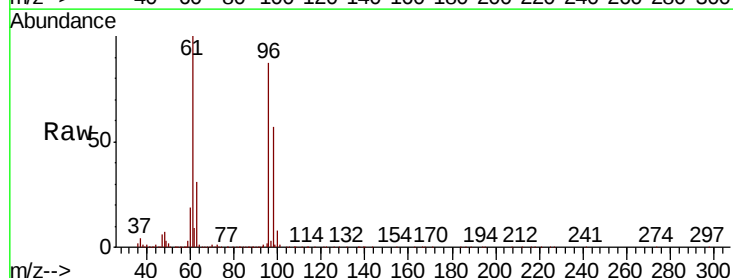
Instrument :
MSVOA_X
ClientSampled :

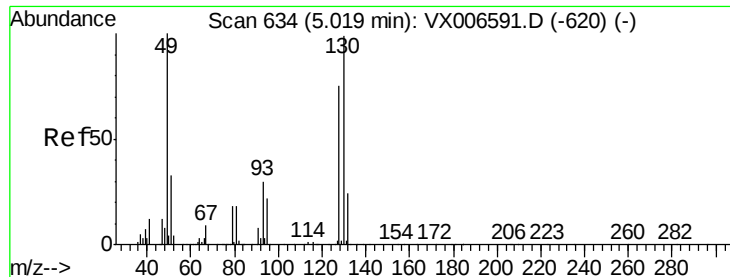
Tot Ion: 43 Resp: 2235
Ion Ratio Lower Upper
43 100
72 20.8 22.4 33.6#



#27
cis-1,2-Dichloroethene
Concen: 25.484 ug/l
RT: 4.60 min Scan# 566
Delta R.T. 0.01 min
Lab File: VX006700.D
Acq: 21 Dec 2018 02:54

Tgt Ion: 96 Resp: 165186
Ion Ratio Lower Upper
96 100
61 116.1 0.0 258.6
98 65.7 0.0 132.0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

Delta R.T. 0.01 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

Instrument :
MSVOA_X
ClientSampled :

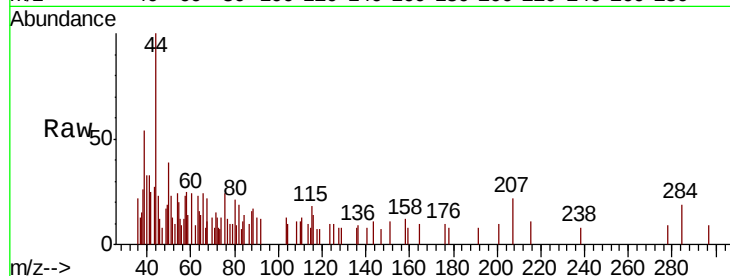
Tot Ion: 49 Resp: 430

Ion Ratio Lower Upper

49 100

129 18.8 0.0 5.4#

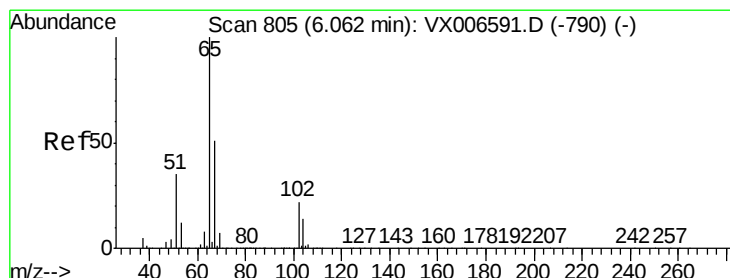
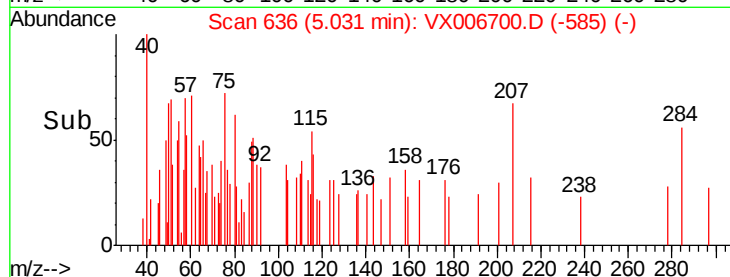
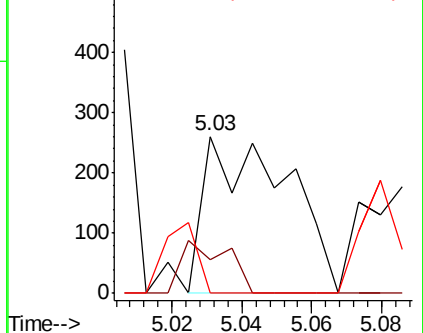
130 17.9 77.7 116.5#



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: 50.856 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006700.D

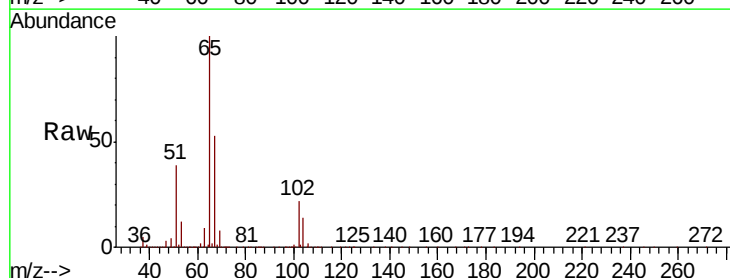
Acq: 21 Dec 2018 02:54

Tgt Ion: 65 Resp: 325271

Ion Ratio Lower Upper

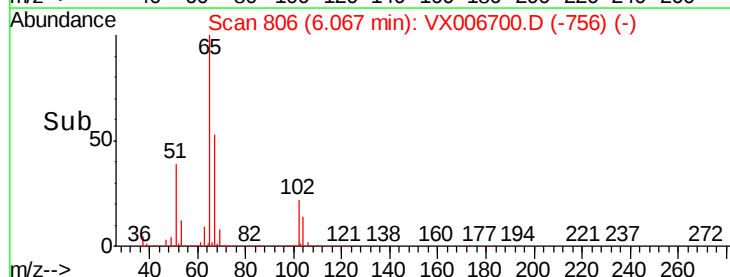
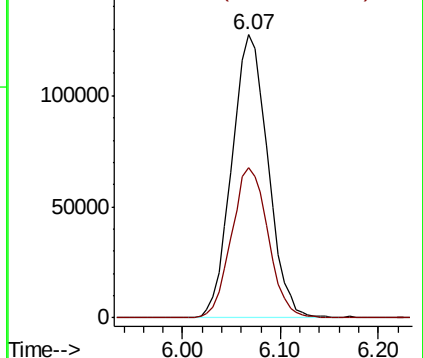
65 100

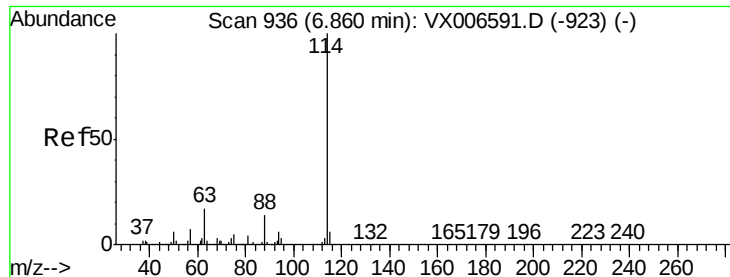
67 54.0 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

Instrument :

MSVOA_X

ClientSampleId :

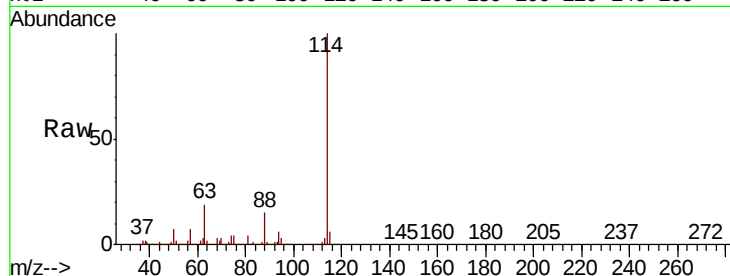
Tot Ion:114 Resp: 934228

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.8

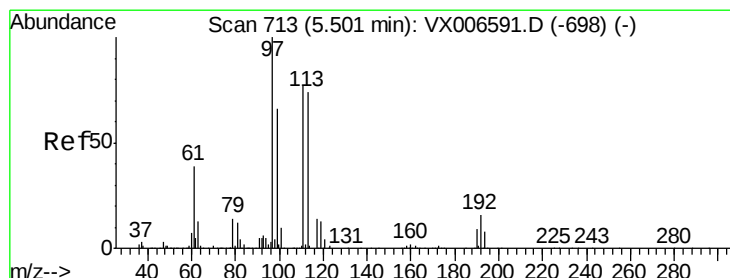
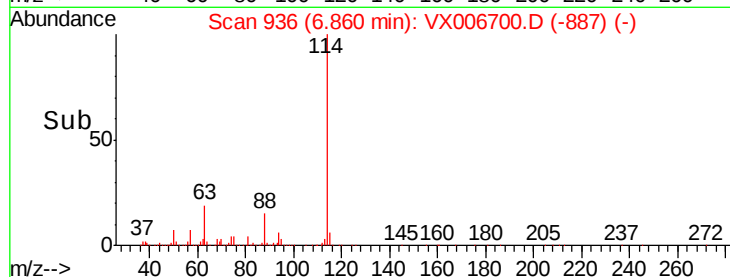
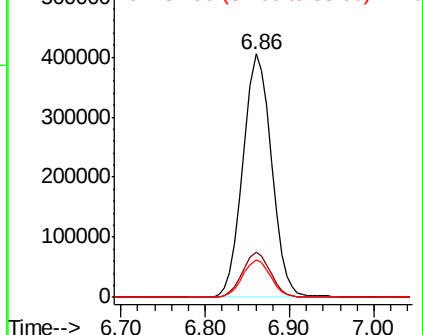
88 15.3 0.0 28.8



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: 48.497 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

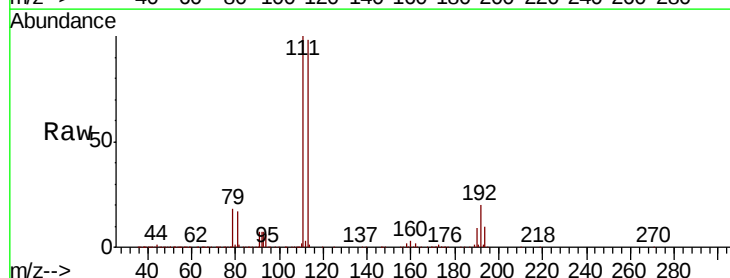
Tgt Ion:113 Resp: 286513

Ion Ratio Lower Upper

113 100

111 100.8 81.6 122.4

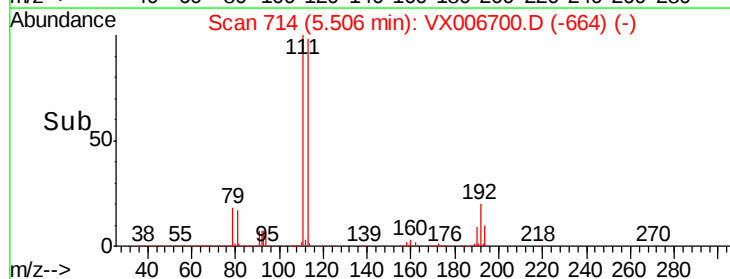
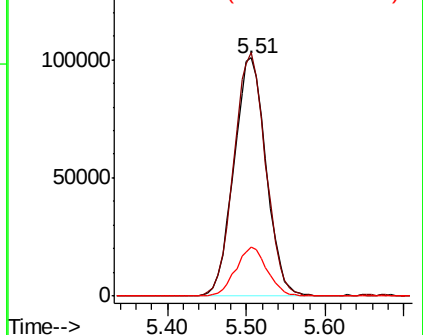
192 20.0 16.7 25.1

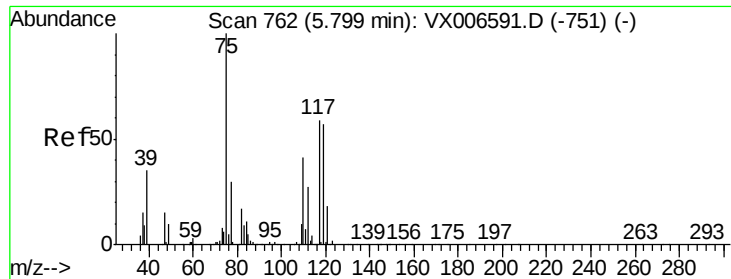


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.040 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

Instrument :

MSVOA_X

ClientSampleId :

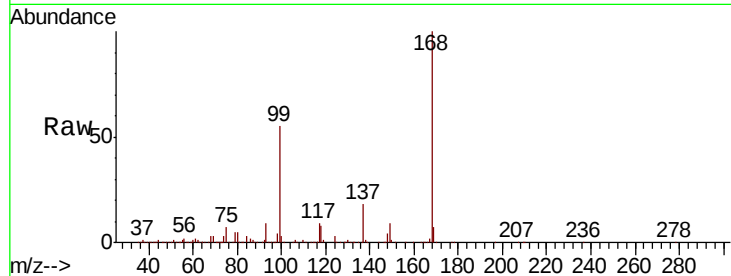
Tot Ion: 75 Resp: 38999

Ion Ratio Lower Upper

75 100

110 10.6 20.2 60.5#

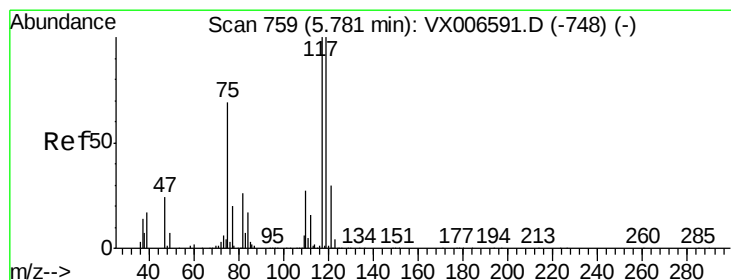
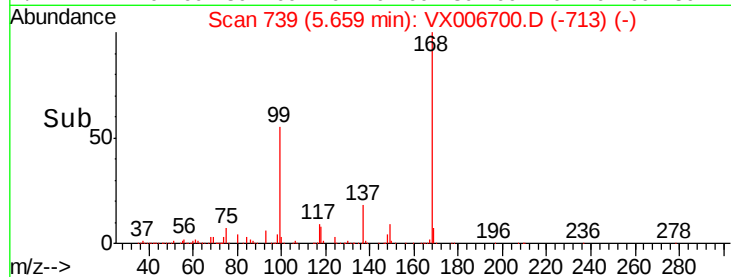
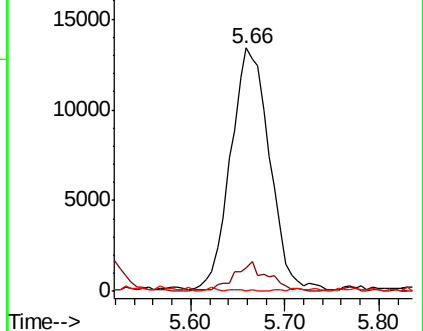
77 0.3 24.8 37.2#



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: 7.404 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

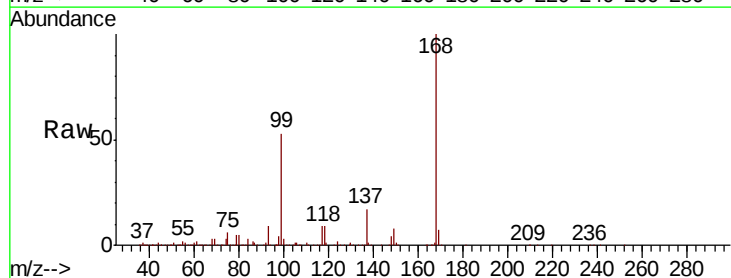
Tgt Ion: 117 Resp: 55678

Ion Ratio Lower Upper

117 100

119 6.5 79.4 119.2#

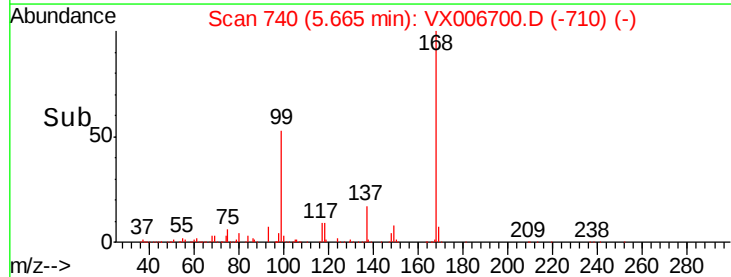
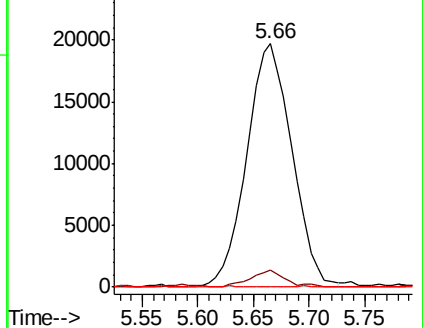
121 0.0 24.0 36.0#

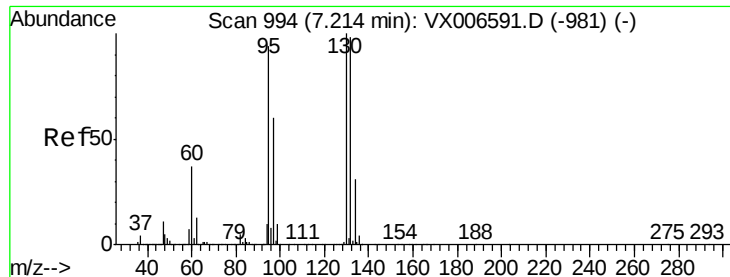


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 20.425 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

Instrument :

MSVOA_X

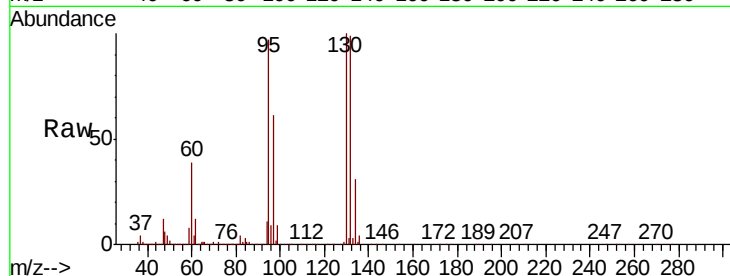
ClientSampleId :

Tot Ion:130 Resp: 145397

Ion Ratio Lower Upper

130 100

95 96.8 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

80000

60000

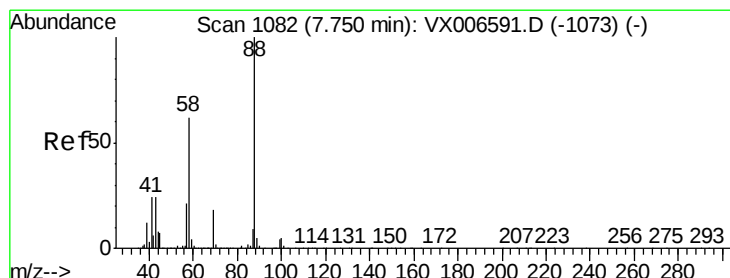
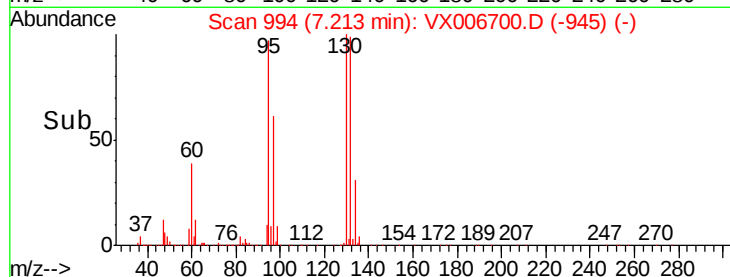
40000

20000

0

Time-->

7.10 7.20 7.30



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.73 min Scan# 1078

Delta R.T. -0.02 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

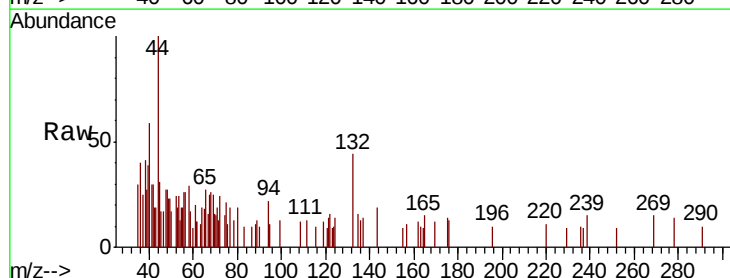
Tgt Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 0.0 51.0 76.4#



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

500

400

300

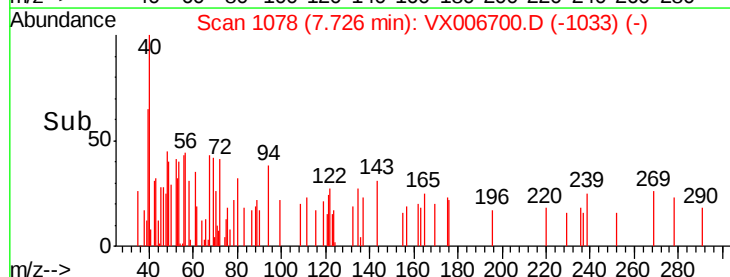
200

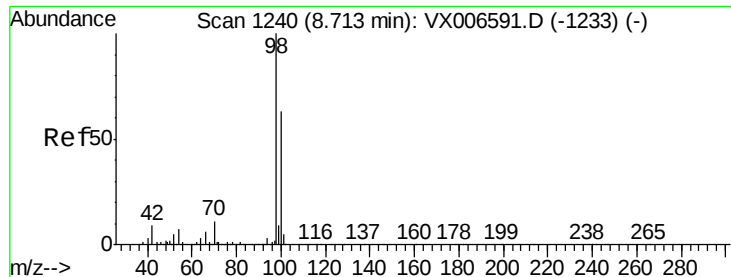
100

0

Time-->

7.71 7.72 7.73 7.74 7.75





#50

Toluene-d8

Concen: 49.739 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

Instrument :

MSVOA_X

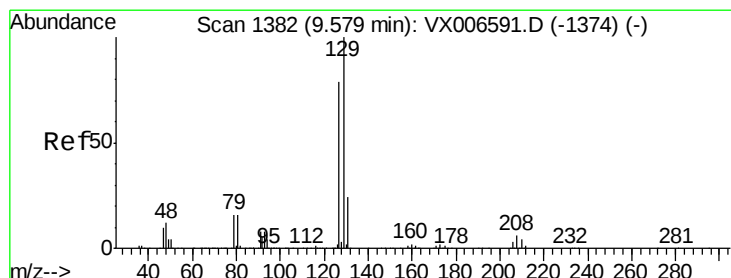
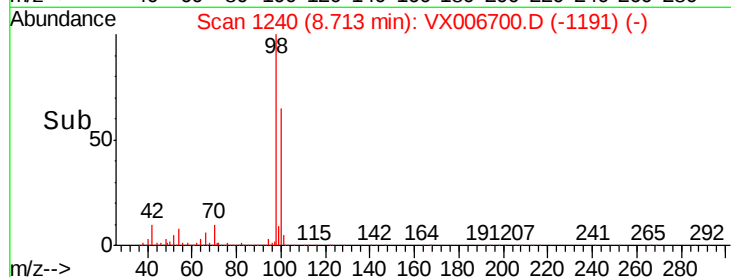
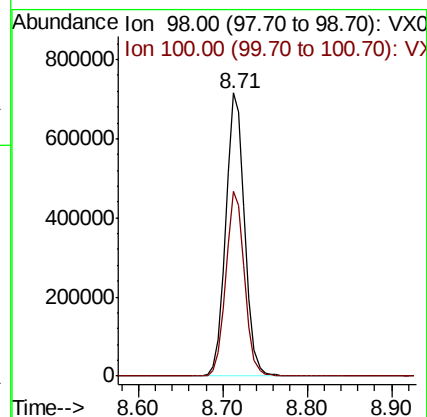
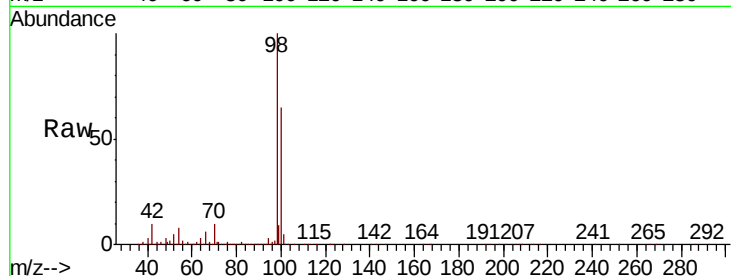
ClientSampleId :

Tot Ion: 98 Resp: 1107823

Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0



#60

Dibromochloromethane

Concen: 2.335 ug/l

RT: 9.46 min Scan# 1363

Delta R.T. -0.12 min

Lab File: VX006700.D

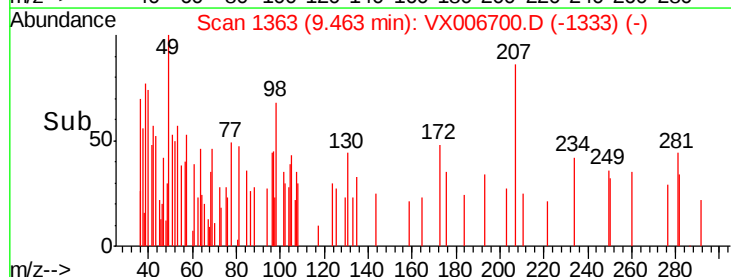
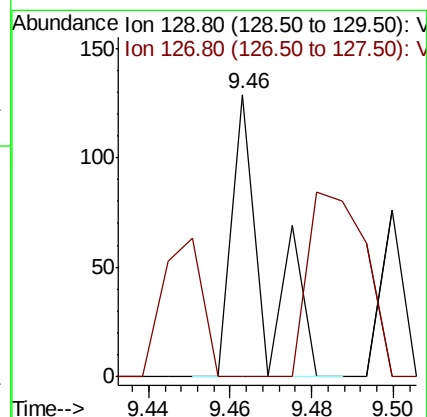
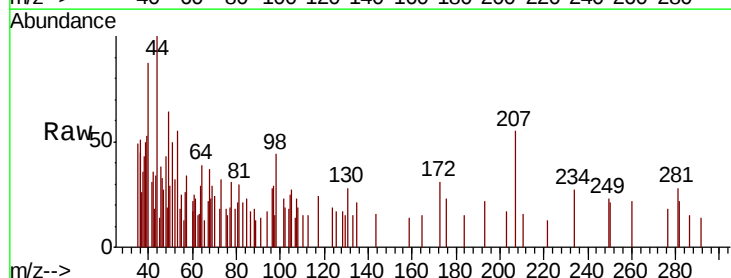
Acq: 21 Dec 2018 02:54

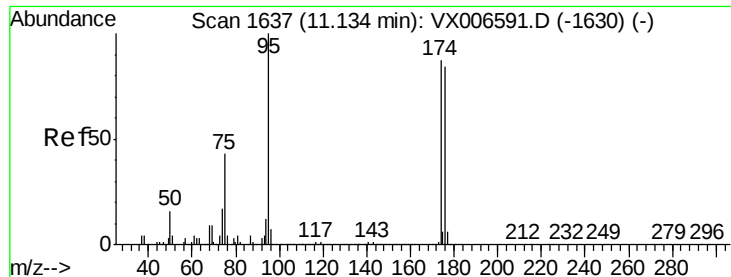
Tgt Ion: 129 Resp: 72

Ion Ratio Lower Upper

129 100

127 58.3 39.3 117.8





#62

4-Bromofluorobenzene

Concen: 47.806 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

Instrument :

MSVOA_X

ClientSampleId :

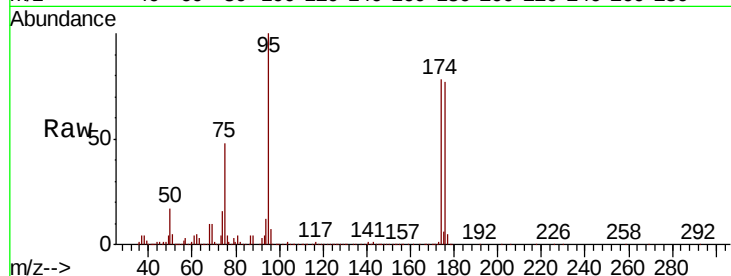
Tot Ion: 95 Resp: 389967

Ion Ratio Lower Upper

95 100

174 86.3 0.0 182.2

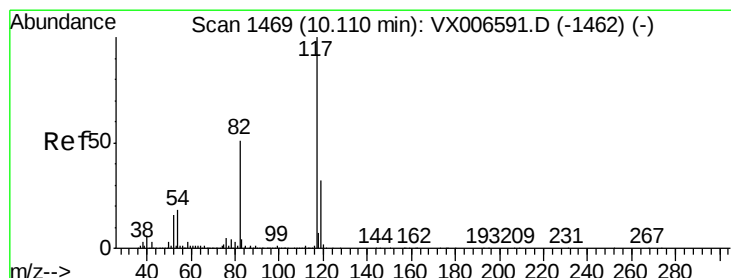
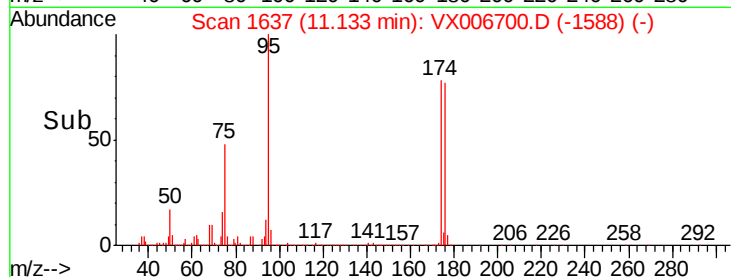
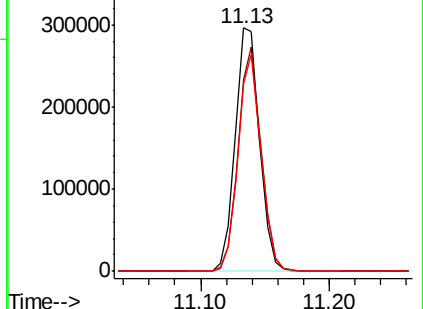
176 84.1 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006591.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX006591.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX006591.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

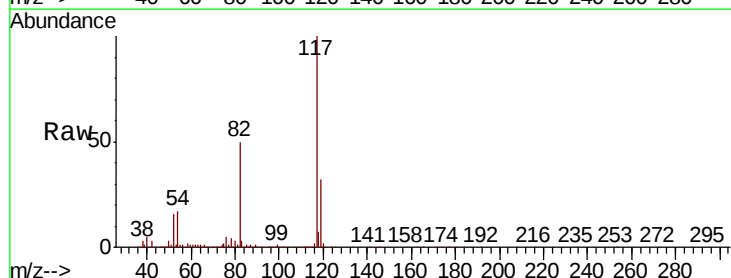
Tgt Ion: 117 Resp: 856100

Ion Ratio Lower Upper

117 100

82 50.4 41.0 61.6

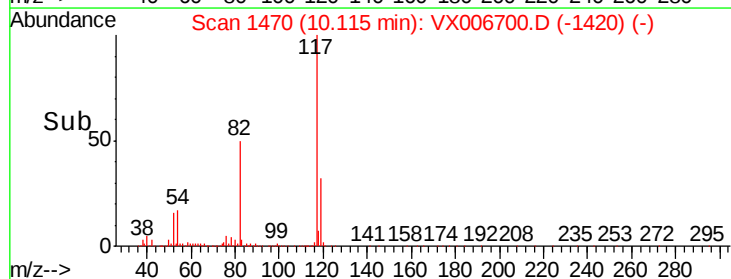
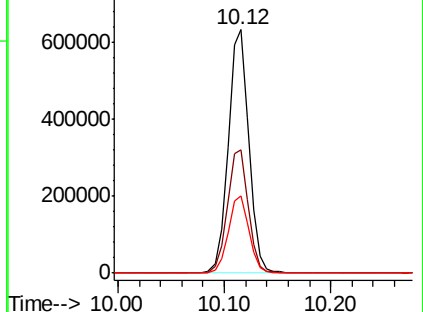
119 31.9 25.4 38.0

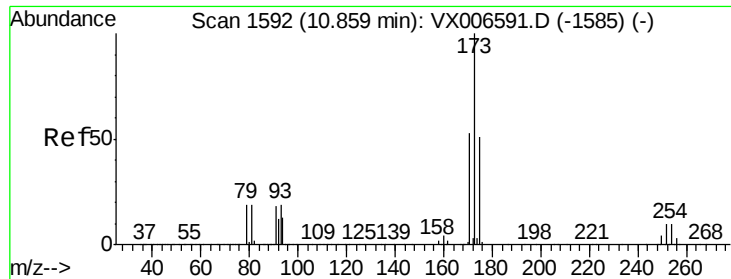


Abundance Ion 116.90 (116.60 to 117.60): VX006591.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006591.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006591.D (-1462) (-)





#71

Bromoform

Concen: 4.484 ug/l

RT: 10.60 min Scan# 1550

Delta R.T. -0.26 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

Instrument :

MSVOA_X

ClientSampled :

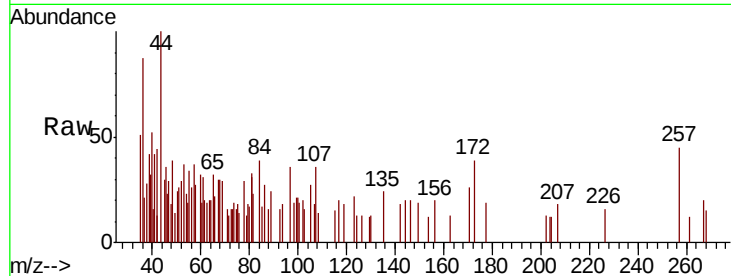
Tot Ion:173 Resp: 135

Ion Ratio Lower Upper

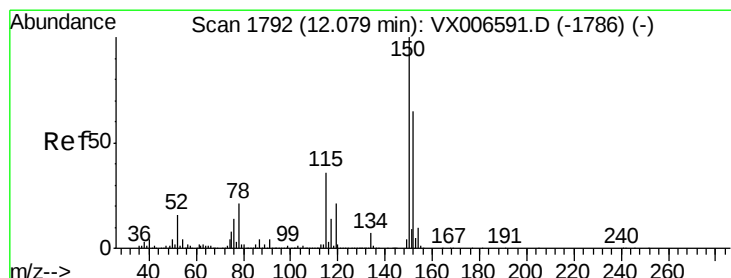
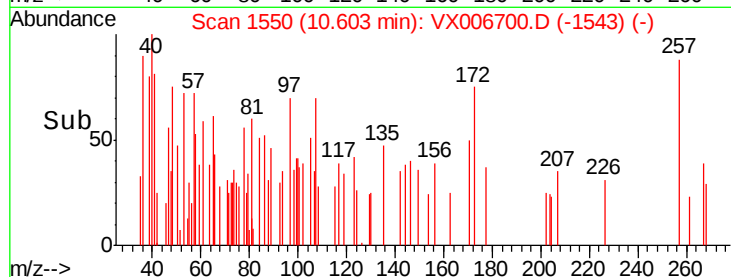
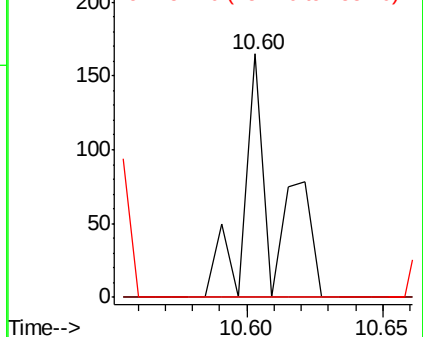
173 100

175 0.0 24.7 74.1#

254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

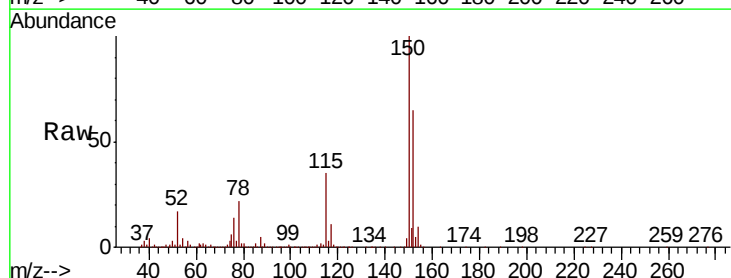
Tgt Ion:152 Resp: 397304

Ion Ratio Lower Upper

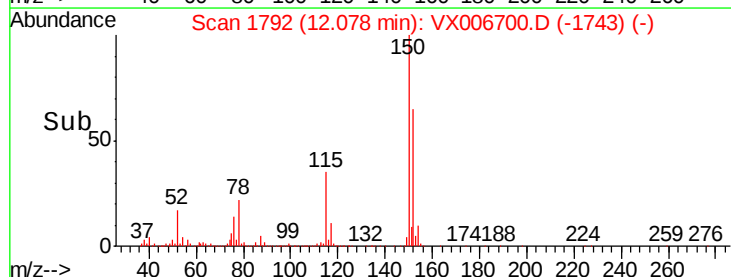
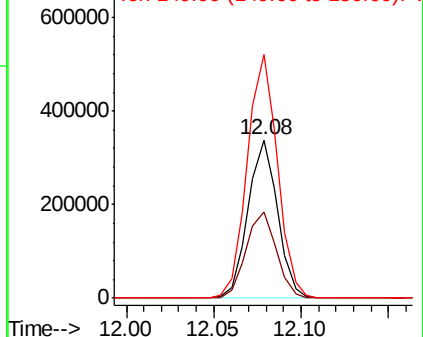
152 100

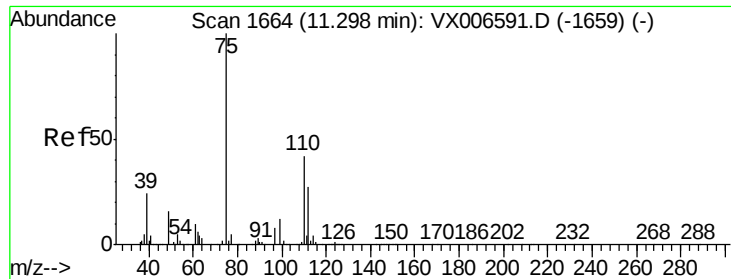
115 56.1 39.1 117.2

150 157.6 0.0 344.8



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

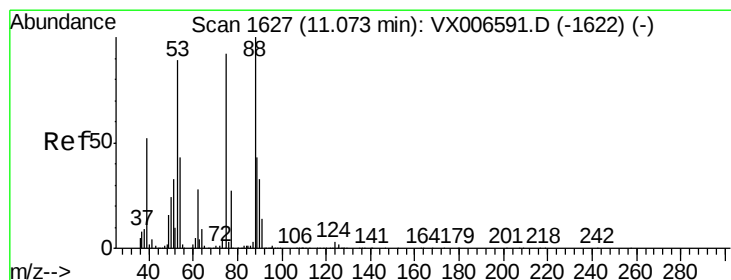
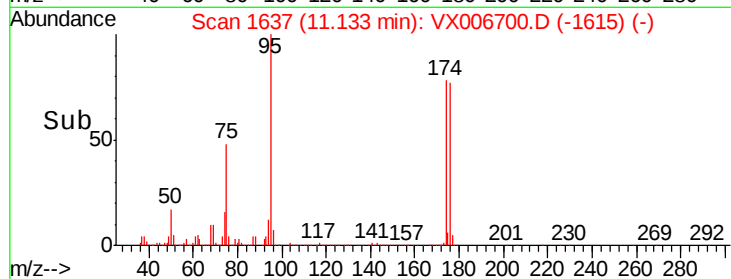
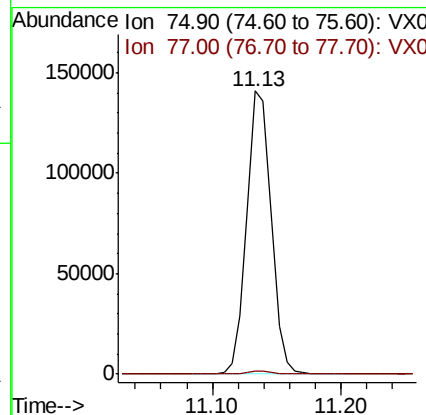
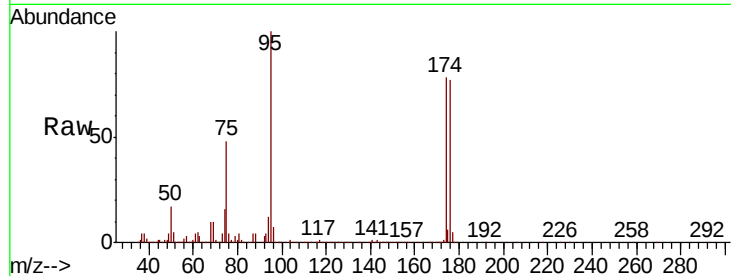




#76
 1,2,3-Trichloropropane
 Concen: 24.972 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006700.D
 Acq: 21 Dec 2018 02:54

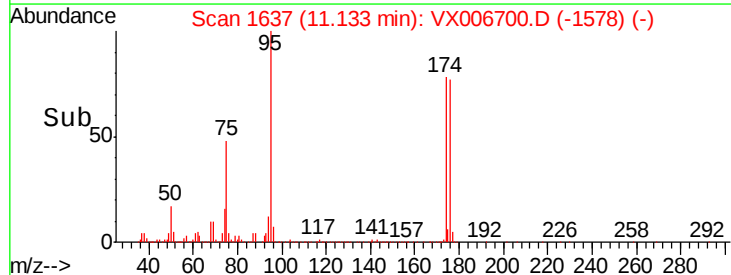
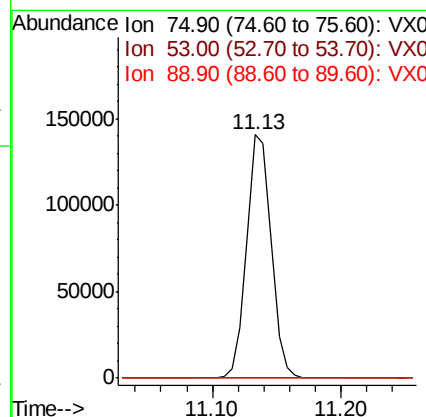
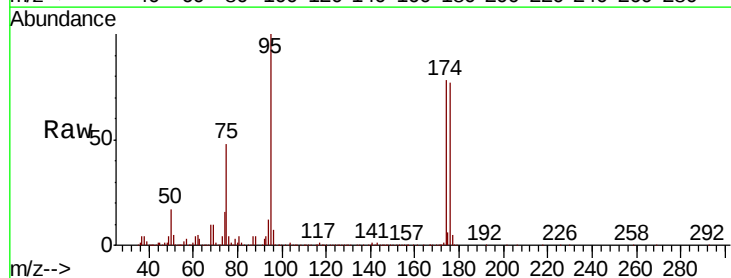
Instrument :
 MSVOA_X
 ClientSampleId :

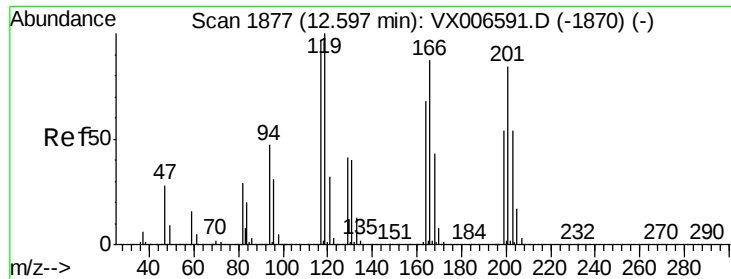
Tot Ion: 75 Resp: 184381
 Ion Ratio Lower Upper
 75 100
 77 1.4 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.796 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006700.D
 Acq: 21 Dec 2018 02:54

Tgt Ion: 75 Resp: 184381
 Ion Ratio Lower Upper
 75 100
 53 0.3 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.329 ug/l

RT: 12.57 min Scan# 1873

Delta R.T. -0.02 min

Lab File: VX006700.D

Acq: 21 Dec 2018 02:54

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 144

Ion Ratio Lower Upper

117 100

201 50.0 42.9 128.7

