

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006668.D
 Acq On : 20 Dec 2018 11:47
 Operator : JC/MD
 Sample : J6474-01DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 21 03:29:07 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	5.67	168	651827	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1025913	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	946978	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	460839	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	353301	50.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.58%	
35) Dibromofluoromethane	5.50	113	306744	47.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.56%	
50) Toluene-d8	8.71	98	1216860	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	
62) 4-Bromofluorobenzene	11.13	95	438622	48.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.94%	

Target Compounds

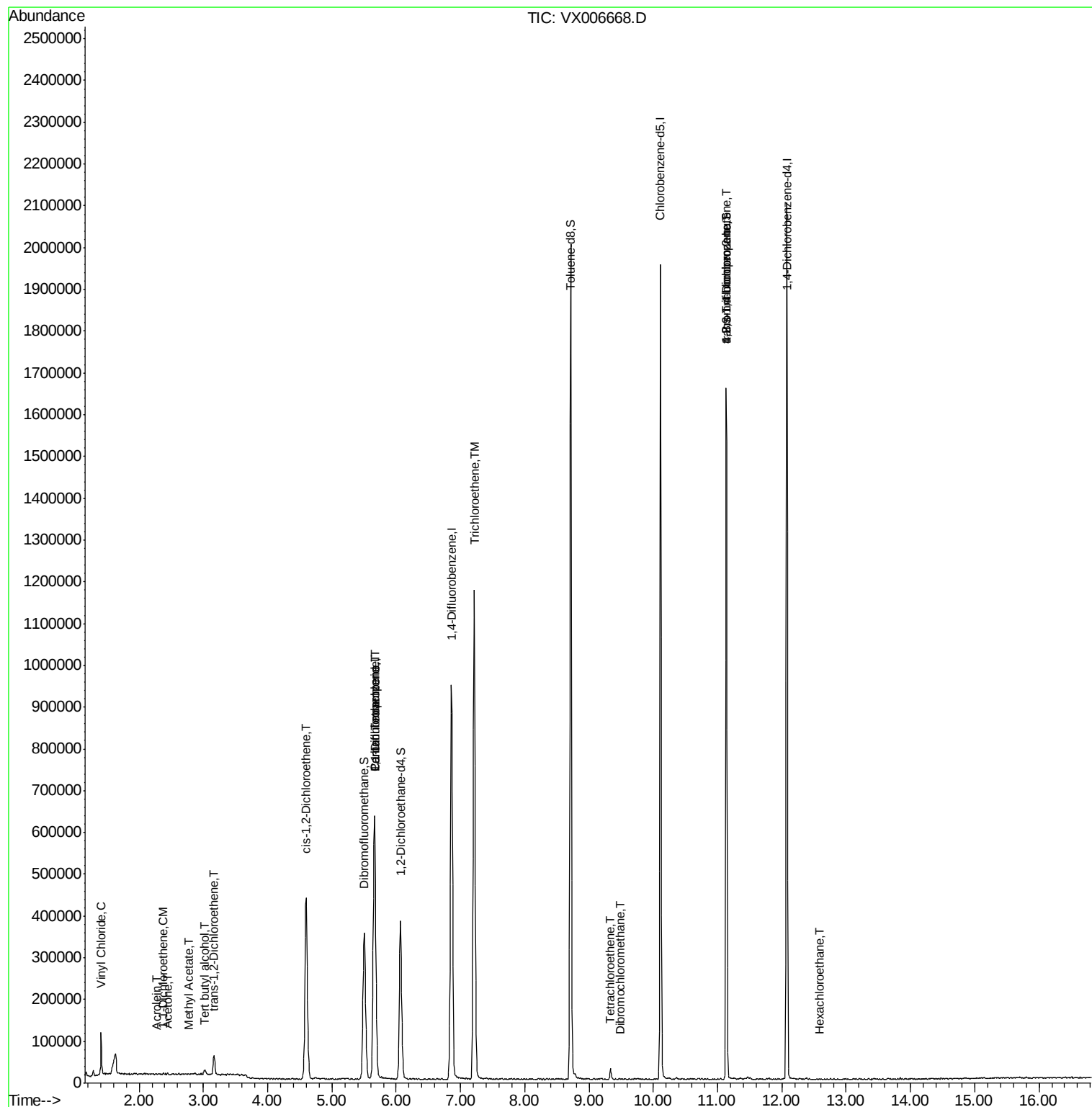
					Qvalue	
4) Vinyl Chloride	1.41	62	61121	9.109	ug/l	97
5) Bromomethane	1.64	94	1075	Below Cal	#	80
11) Tert butyl alcohol	3.01	59	7511	4.791	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	1244	0.214	ug/l #	84
13) Acrolein	2.28	56	603	0.570	ug/l #	48
16) Acetone	2.45	43	1060	0.328	ug/l #	78
18) Methyl Acetate	2.78	43	1989	0.210	ug/l #	87
21) trans-1,2-Dichloroethene	3.17	96	19940	3.090	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	296909	41.703	ug/l	91
28) Bromochloromethane	5.04	49	183	Below Cal	#	17
36) 1,1-Dichloropropene	5.66	75	45331	5.335	ug/l #	40
38) Carbon Tetrachloride	5.67	117	60000	7.266	ug/l #	14
44) Trichloroethene	7.21	130	475280	60.799	ug/l	95
49) 1,4-Dioxane	7.76	88	135	Below Cal	#	1
60) Dibromochloromethane	9.49	129	139	2.343	ug/l #	10
64) Tetrachloroethene	9.33	164	5314	0.709	ug/l #	85
76) 1,2,3-Trichloropropane	11.13	75	209325	24.442	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	209325	72.319	ug/l #	10
90) Hexachloroethane	12.59	117	57	3.305	ug/l #	43

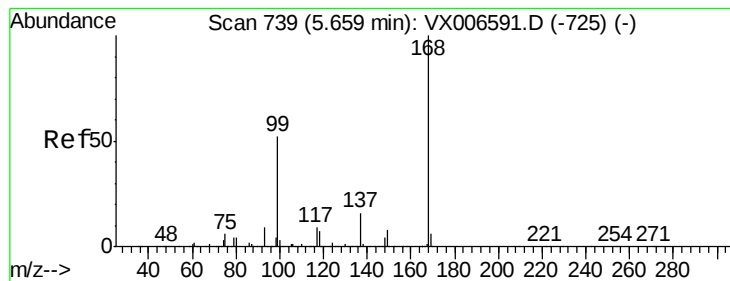
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

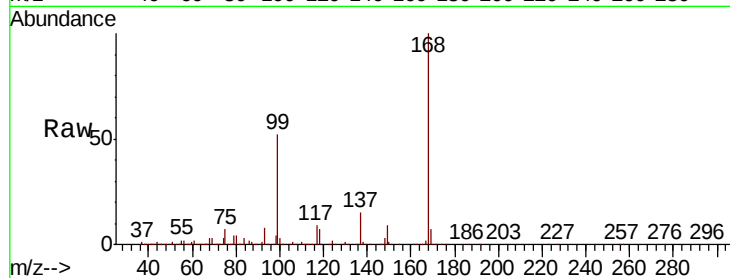
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 651827

Ion Ratio Lower Upper

168 100

99 52.3 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

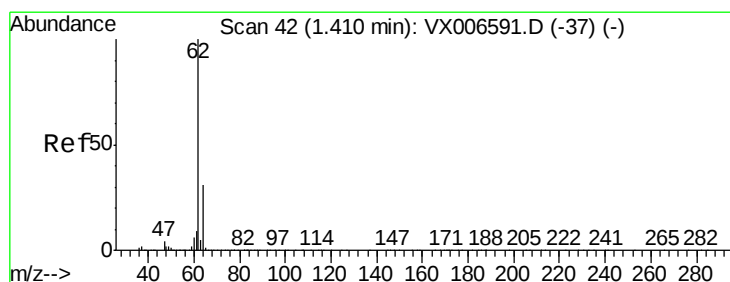
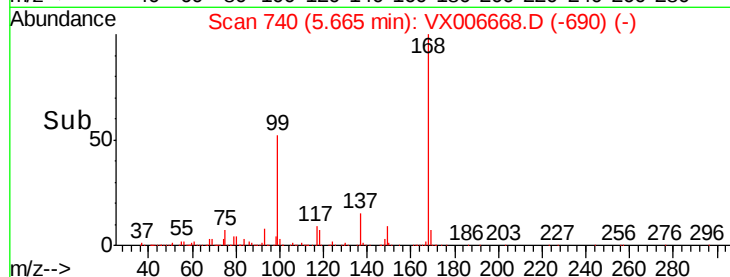
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 9.109 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006668.D

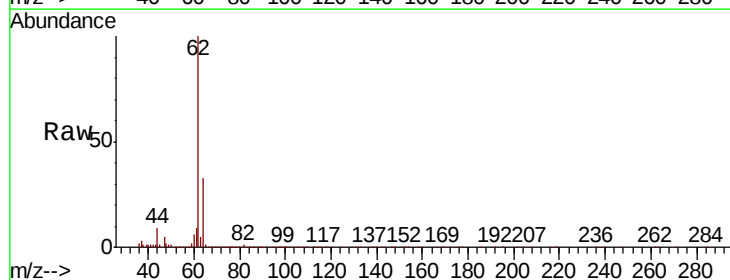
Acq: 20 Dec 2018 11:47

Tgt Ion: 62 Resp: 61121

Ion Ratio Lower Upper

62 100

64 32.9 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

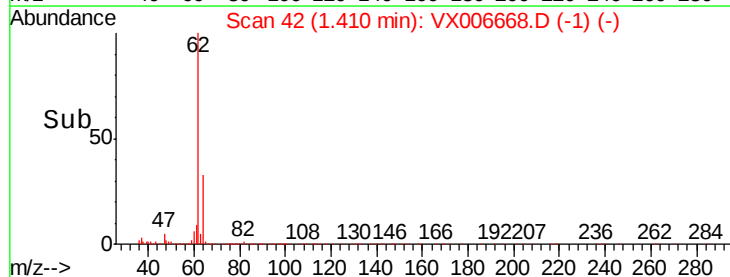
60000

40000

20000

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

Instrument :

MSVOA_X

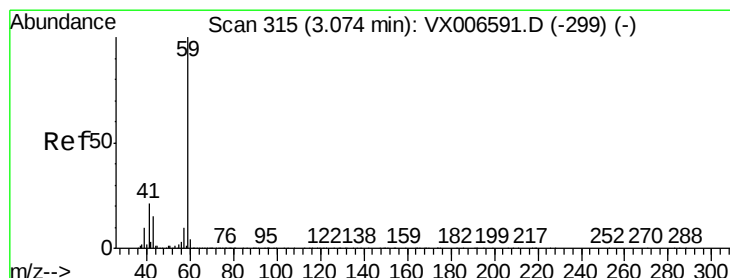
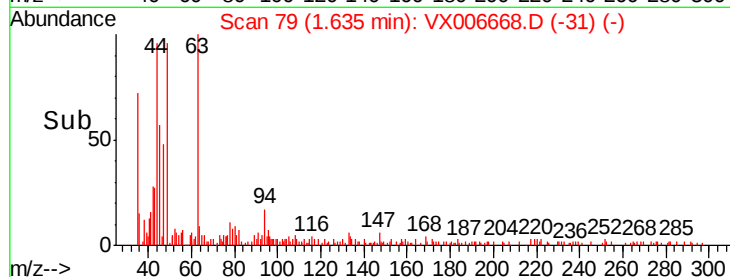
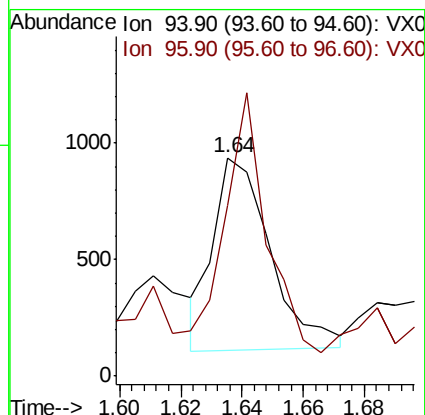
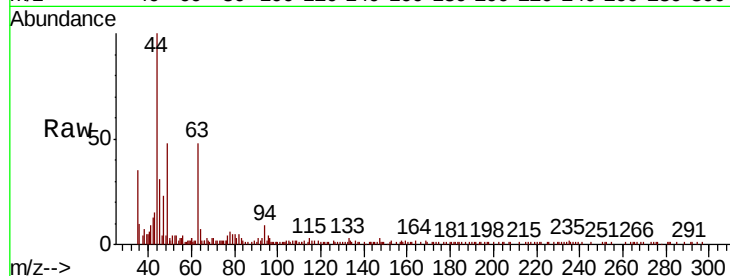
ClientSampled :

Tot Ion: 94 Resp: 1075

Ion Ratio Lower Upper

94 100

96 72.3 73.4 110.2#



#11

Tert butyl alcohol

Concen: 4.791 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.06 min

Lab File: VX006668.D

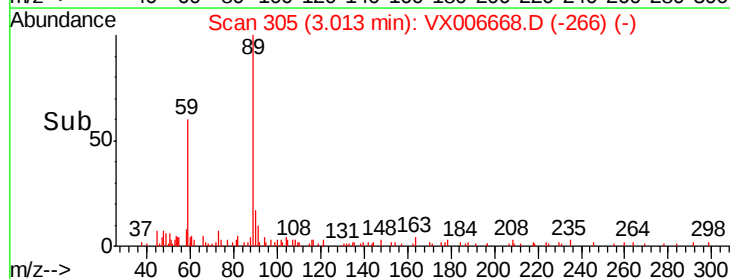
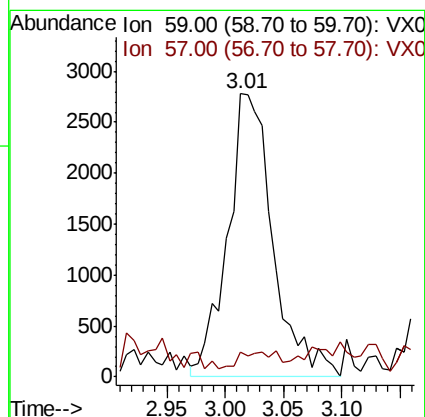
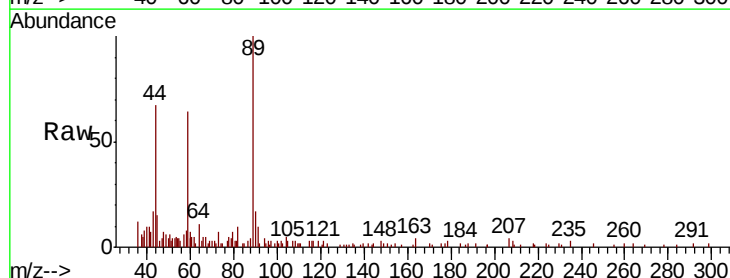
Acq: 20 Dec 2018 11:47

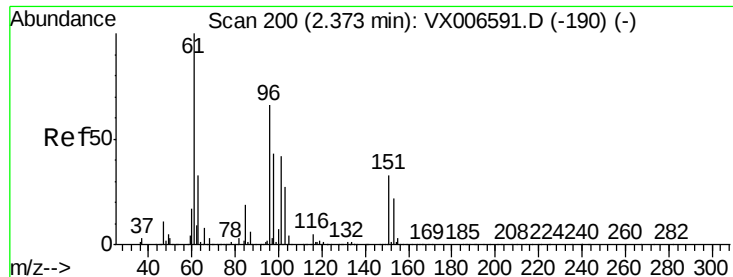
Tgt Ion: 59 Resp: 7511

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#12

1,1-Dichloroethene

Concen: 0.214 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

Instrument :

MSVOA_X

ClientSampled :

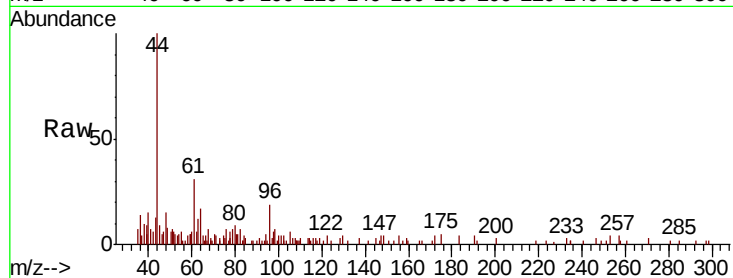
Tot Ion: 96 Resp: 1244

Ion Ratio Lower Upper

96 100

61 142.6 121.4 182.2

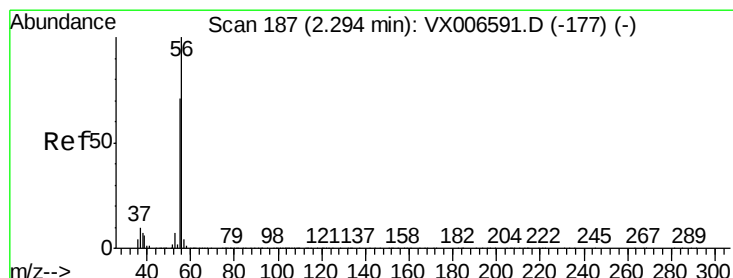
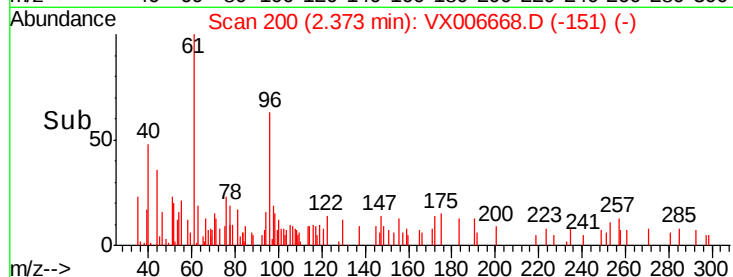
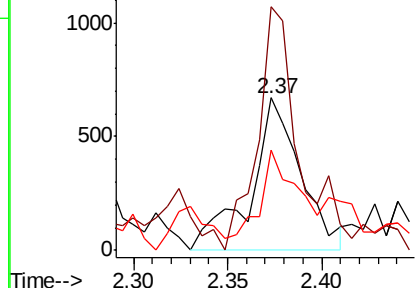
98 36.8 51.9 77.9#



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



#13

Acrolein

Concen: 0.570 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX006668.D

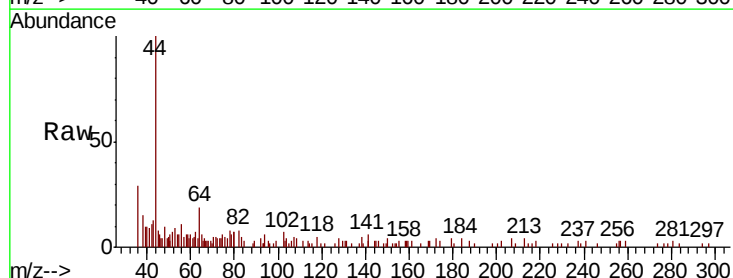
Acq: 20 Dec 2018 11:47

Tgt Ion: 56 Resp: 603

Ion Ratio Lower Upper

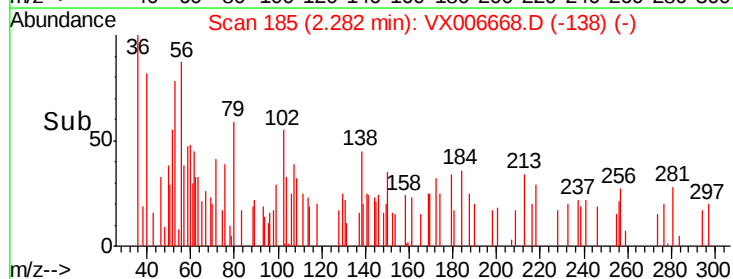
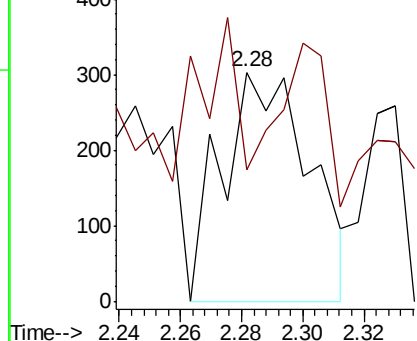
56 100

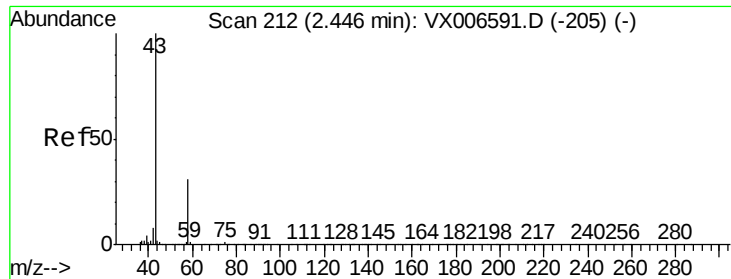
55 29.4 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.328 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

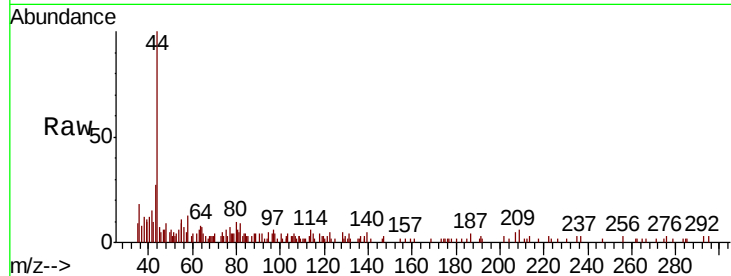
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1060

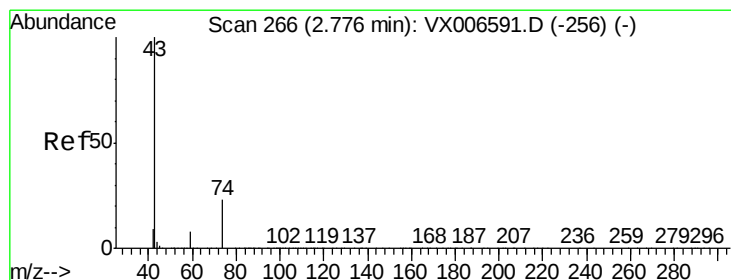
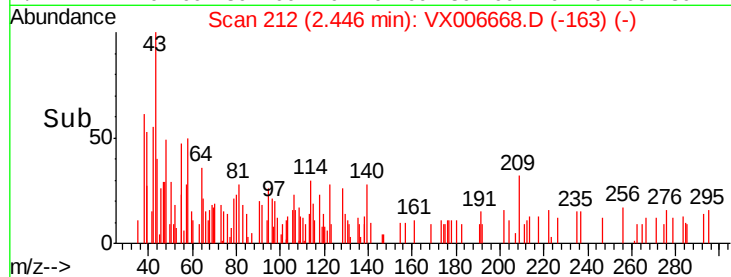
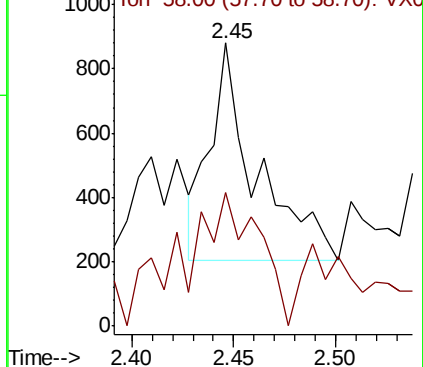
Ion Ratio Lower Upper

43 100

58 19.0 25.0 37.6#



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



#18

Methyl Acetate

Concen: 0.210 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX006668.D

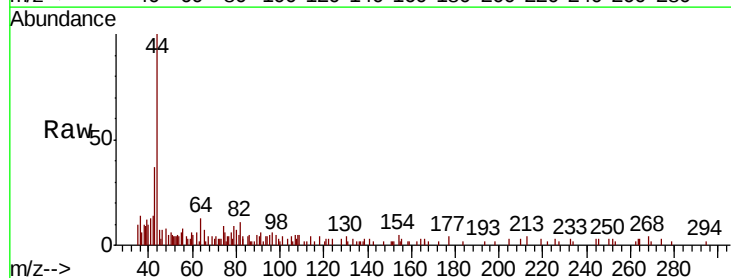
Acq: 20 Dec 2018 11:47

Tgt Ion: 43 Resp: 1989

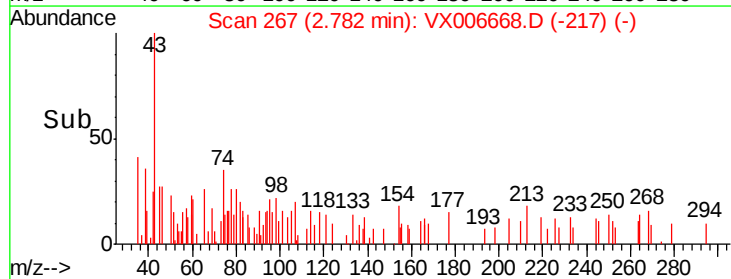
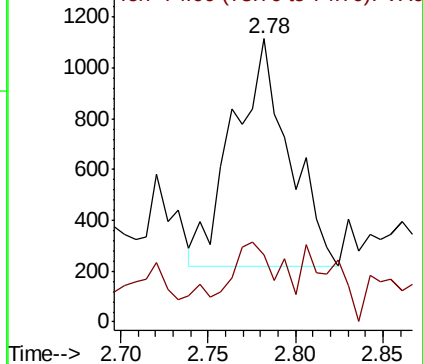
Ion Ratio Lower Upper

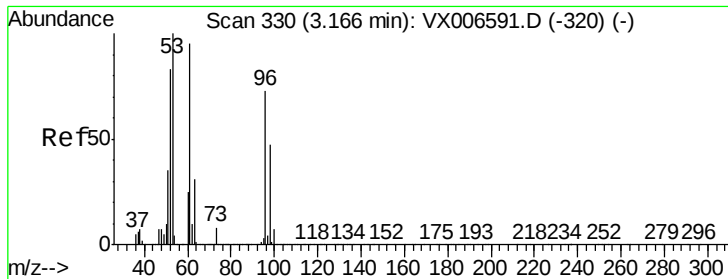
43 100

74 16.8 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 74.00 (73.70 to 74.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 3.090 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

Instrument :
MSVOA_X
ClientSampleId :

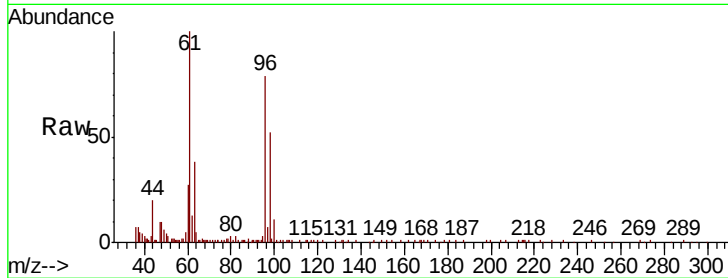
Tot Ion: 96 Resp: 19940

Ion Ratio Lower Upper

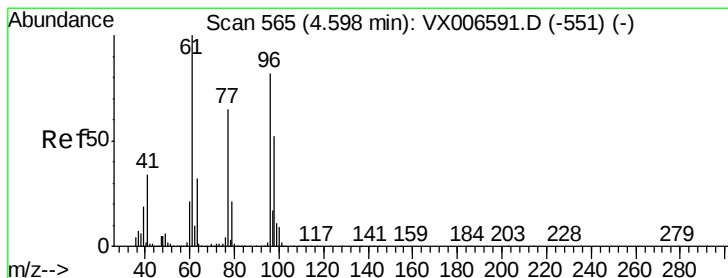
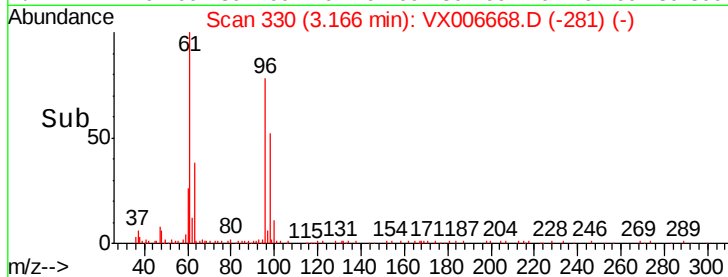
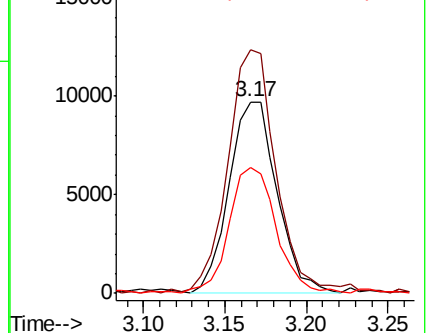
96 100

61 125.0 103.7 155.5

98 64.9 51.0 76.6



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



#27

cis-1,2-Dichloroethene

Concen: 41.703 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

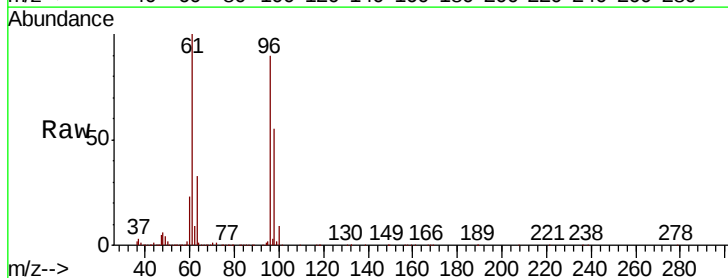
Tgt Ion: 96 Resp: 296909

Ion Ratio Lower Upper

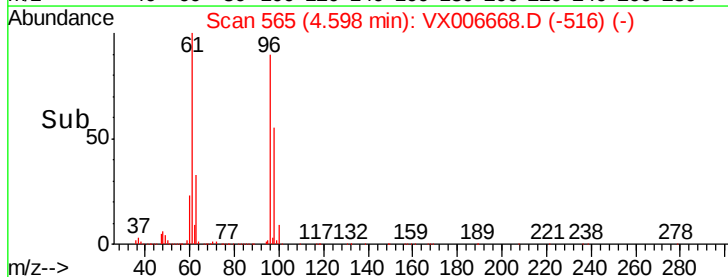
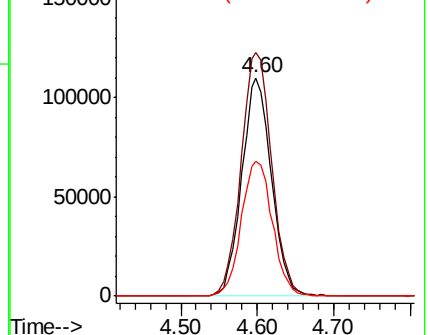
96 100

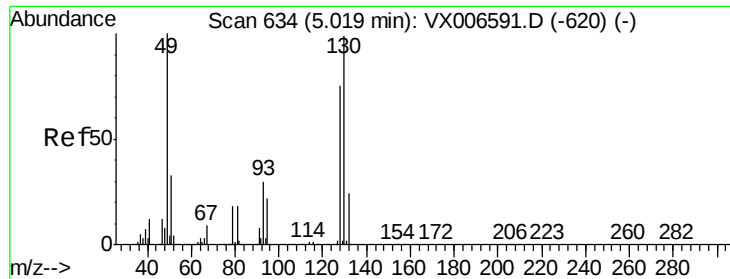
61 114.7 0.0 258.6

98 64.4 0.0 132.0



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: 5.04 min Scan# 638

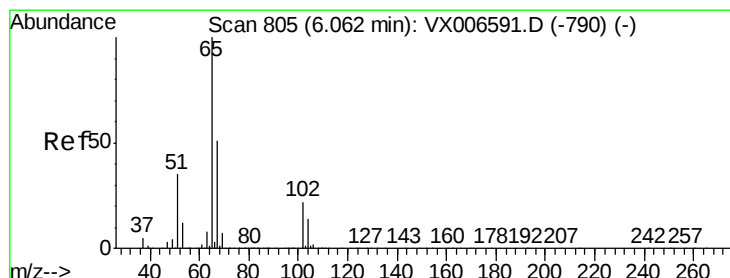
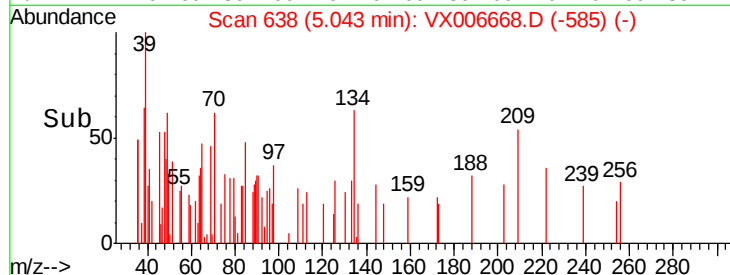
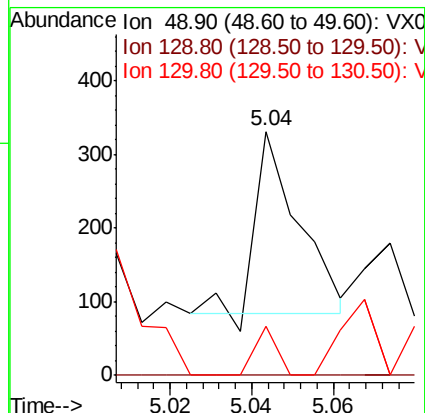
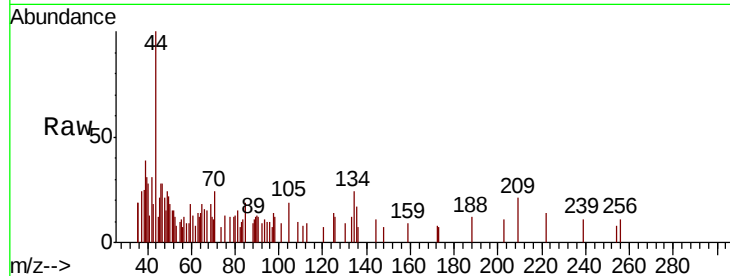
Delta R.T. 0.02 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 183
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.4
130 13.7 77.7 116.5#



#33

1,2-Dichloroethane-d4

Concen: 50.291 ug/l

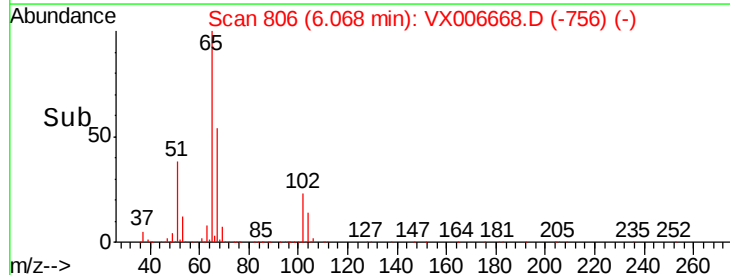
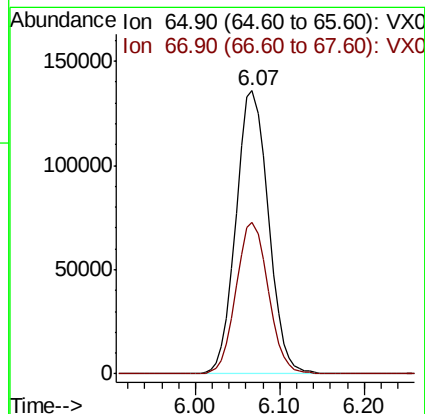
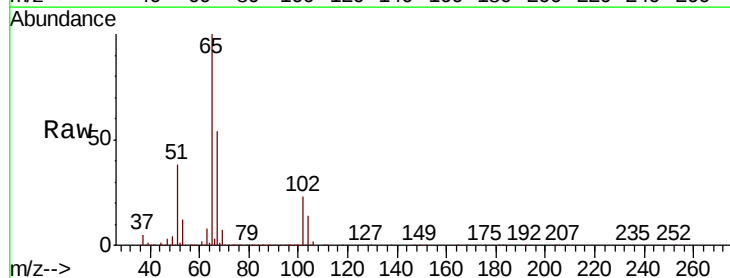
RT: 6.07 min Scan# 806

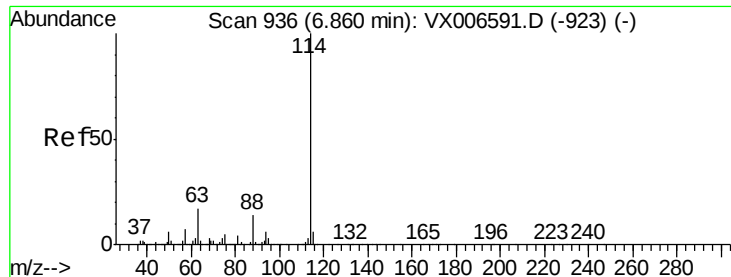
Delta R.T. 0.01 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

Tgt Ion: 65 Resp: 353301
Ion Ratio Lower Upper
65 100
67 53.4 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: VX006668.D

Acq: 20 Dec 2018 11:47

Instrument :

MSVOA_X

ClientSampleId :

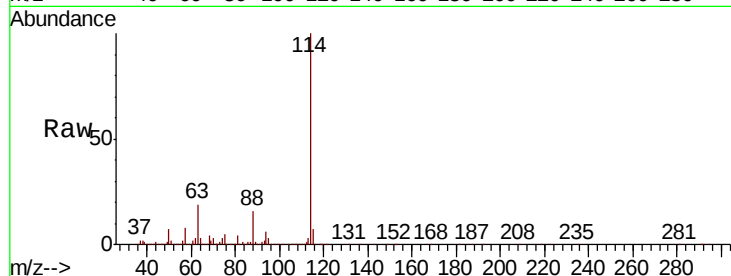
Tot Ion:114 Resp: 1025913

Ion Ratio Lower Upper

114 100

63 18.7 0.0 34.8

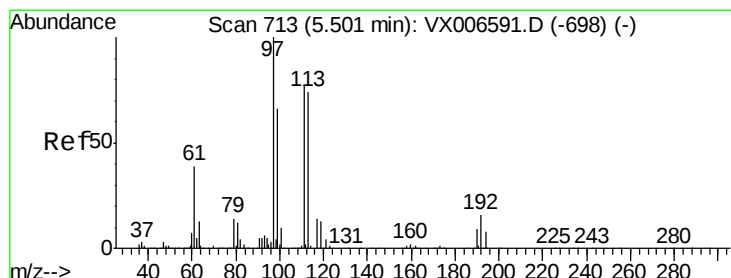
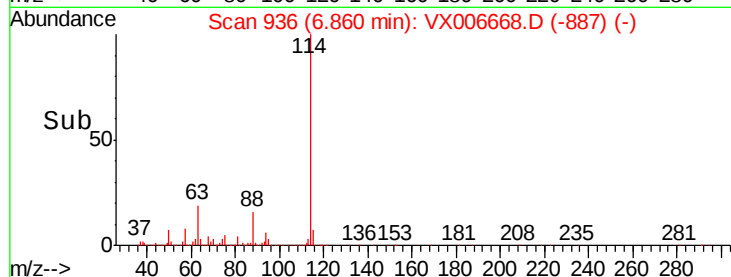
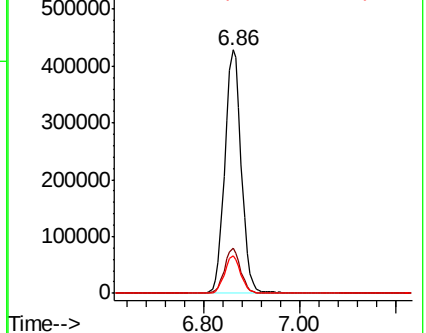
88 15.6 0.0 28.8



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: 47.281 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

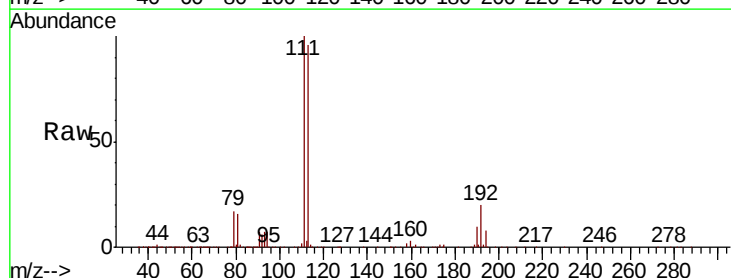
Tgt Ion:113 Resp: 306744

Ion Ratio Lower Upper

113 100

111 101.7 81.6 122.4

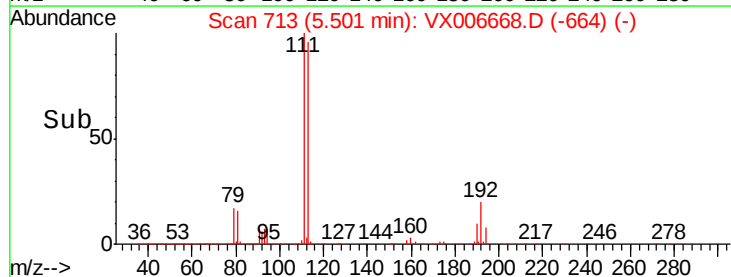
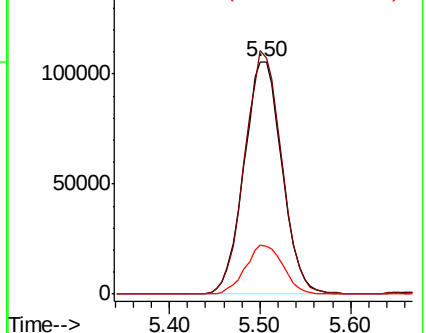
192 21.0 16.7 25.1

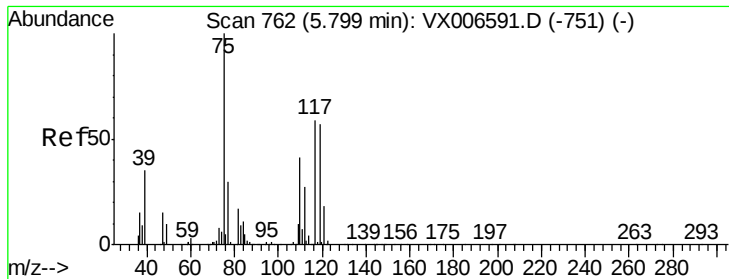


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.335 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

Instrument :

MSVOA_X

ClientSampleId :

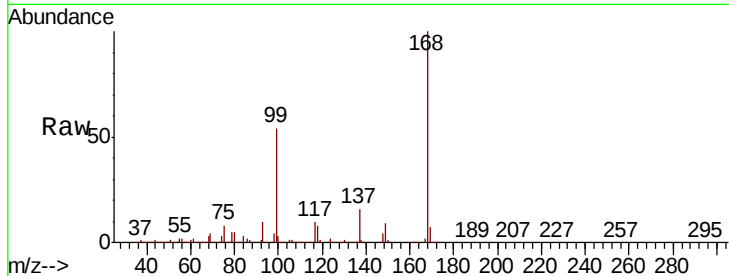
Tot Ion: 75 Resp: 45331

Ion Ratio Lower Upper

75 100

110 0.0 20.2 60.5#

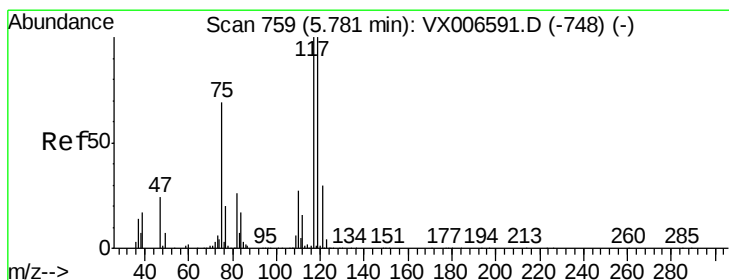
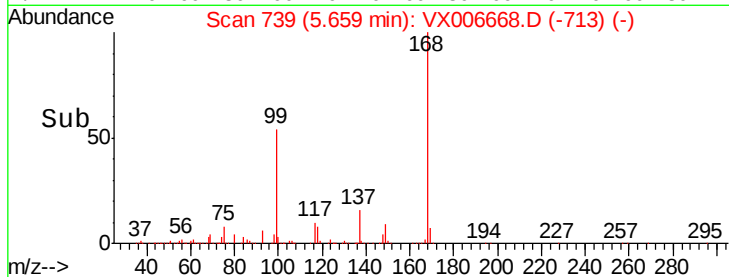
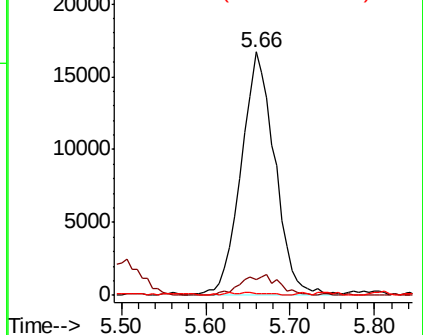
77 1.4 24.8 37.2#



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: 7.266 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

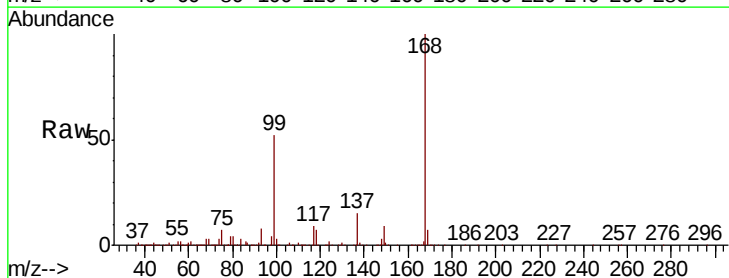
Tgt Ion: 117 Resp: 60000

Ion Ratio Lower Upper

117 100

119 4.9 79.4 119.2#

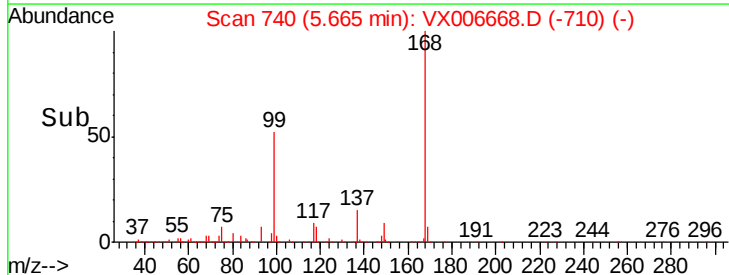
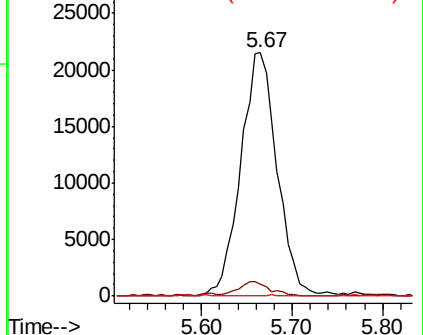
121 0.0 24.0 36.0#

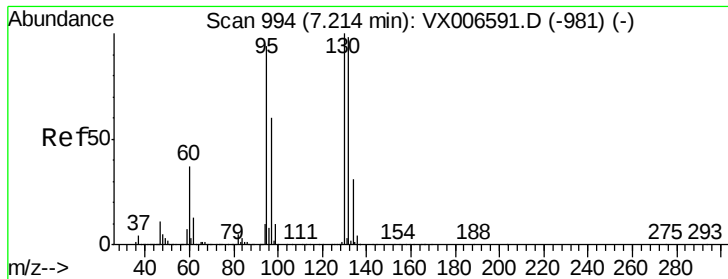


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 60.799 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

Instrument :

MSVOA_X

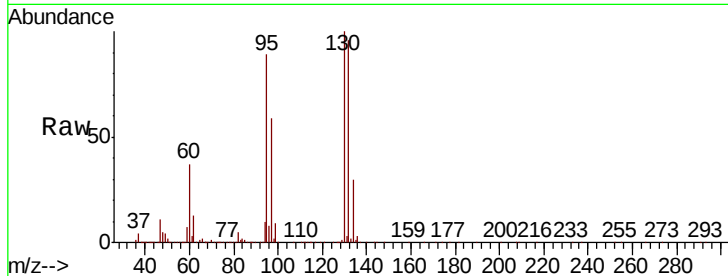
ClientSampleId :

Tot Ion:130 Resp: 475280

Ion Ratio Lower Upper

130 100

95 88.8 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

250000

200000

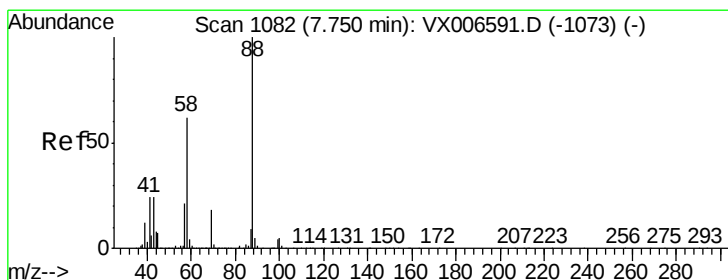
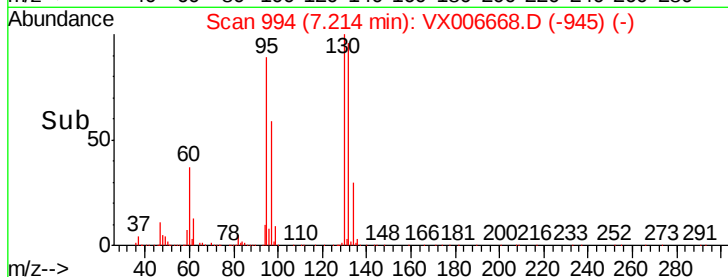
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

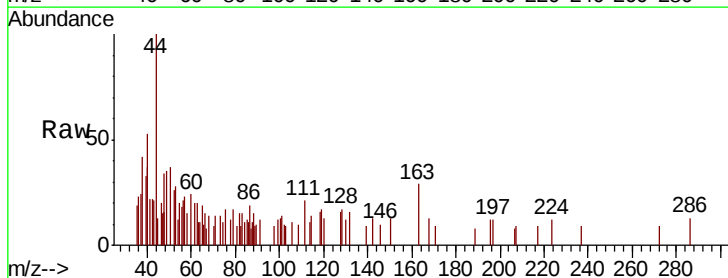
Tgt Ion: 88 Resp: 135

Ion Ratio Lower Upper

88 100

43 351.9 22.2 33.4#

58 236.3 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

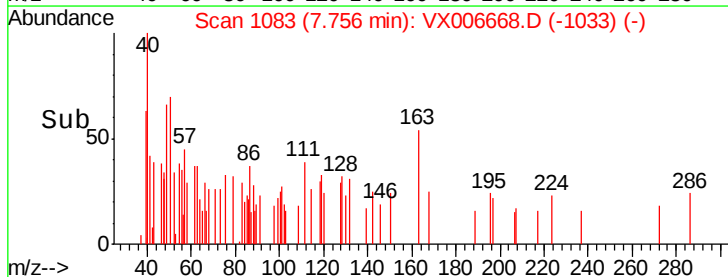
300

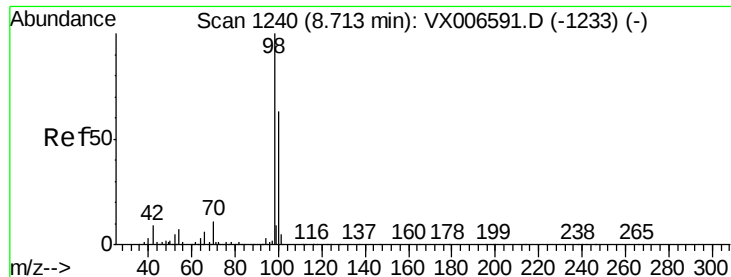
200

100

0

Time-->





#50

Toluene-d8

Concen: 49.751 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

Instrument :

MSVOA_X

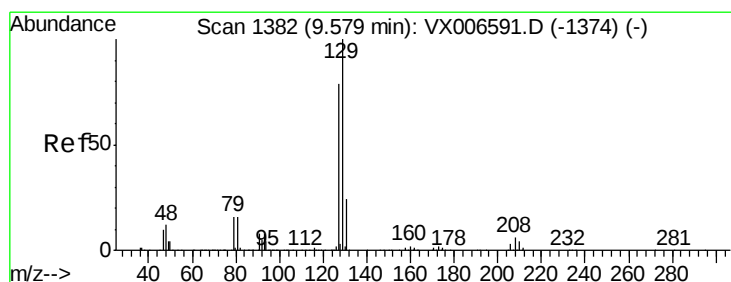
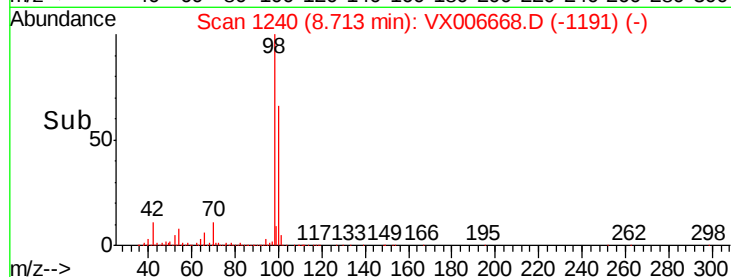
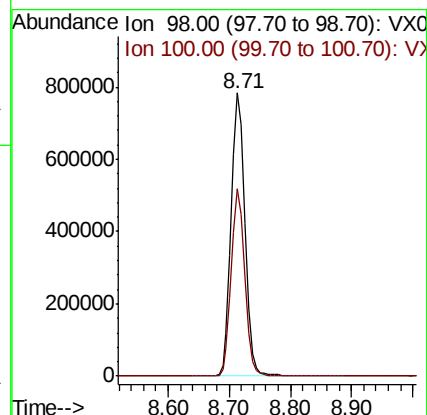
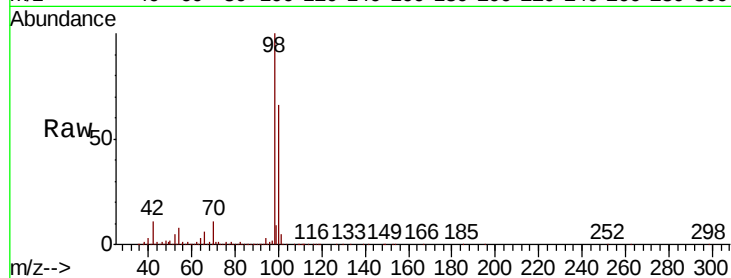
ClientSampleId :

Tot Ion: 98 Resp: 1216860

Ion Ratio Lower Upper

98 100

100 64.9 52.0 78.0



#60

Dibromochloromethane

Concen: 2.343 ug/l

RT: 9.49 min Scan# 1367

Delta R.T. -0.09 min

Lab File: VX006668.D

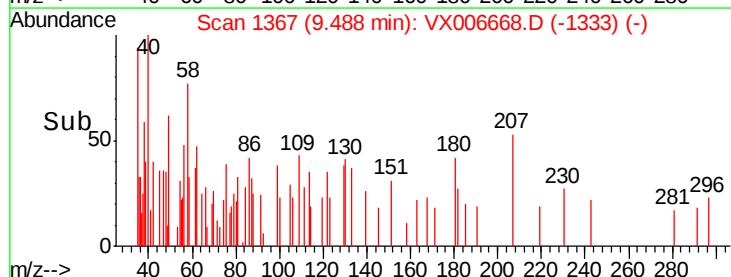
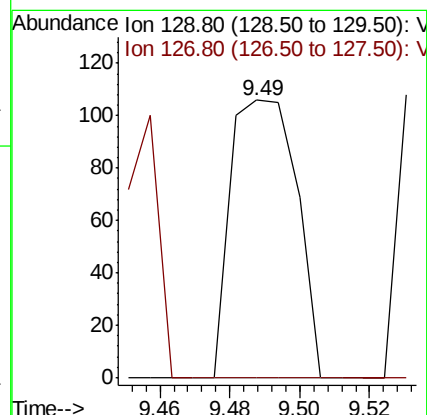
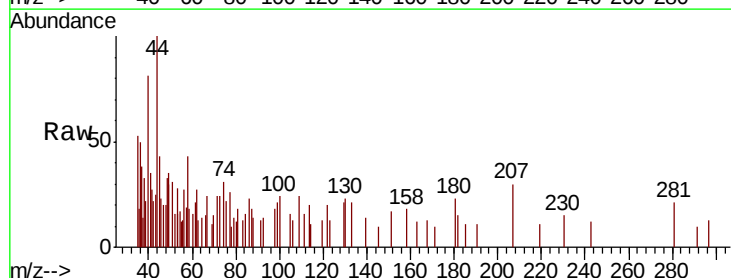
Acq: 20 Dec 2018 11:47

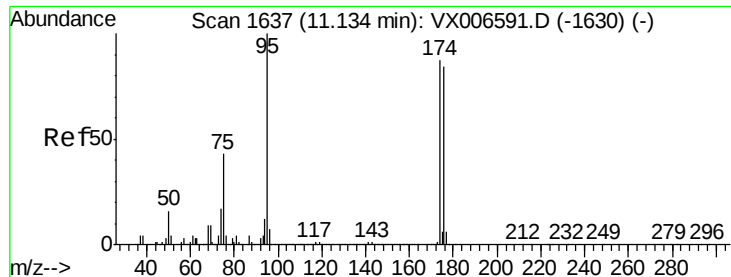
Tgt Ion:129 Resp: 139

Ion Ratio Lower Upper

129 100

127 0.0 39.3 117.8#

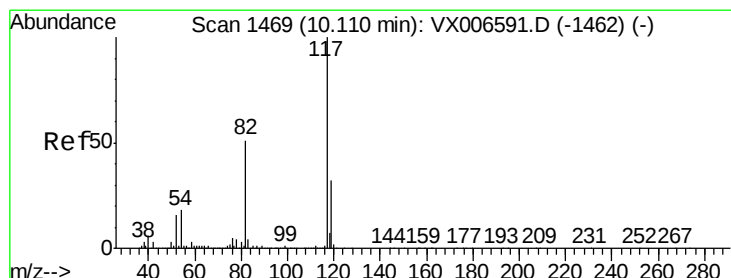
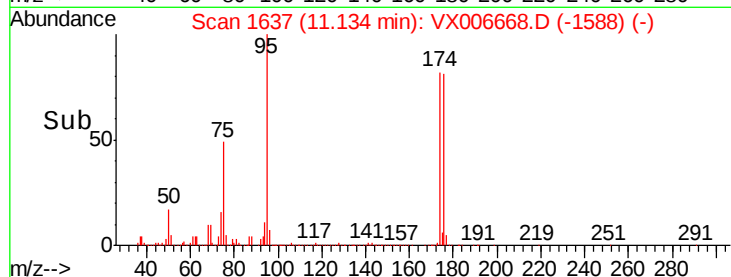
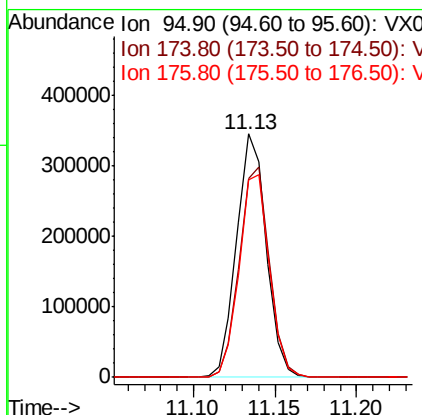
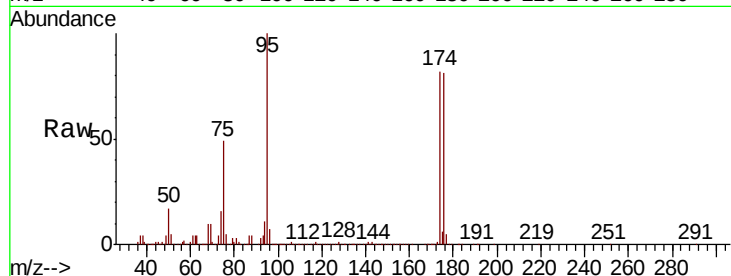




#62
4-Bromofluorobenzene
Concen: 48.965 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX006668.D
Acq: 20 Dec 2018 11:47

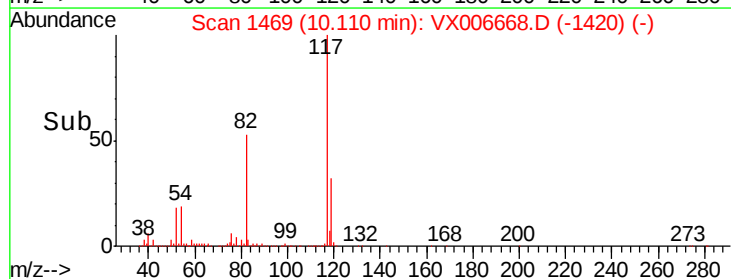
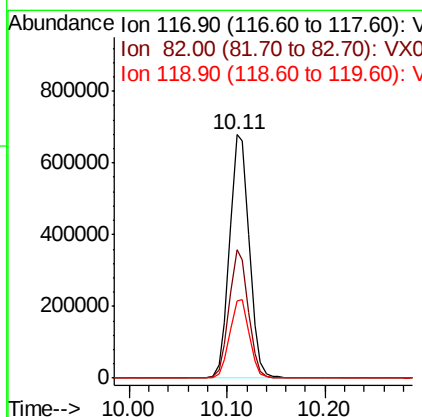
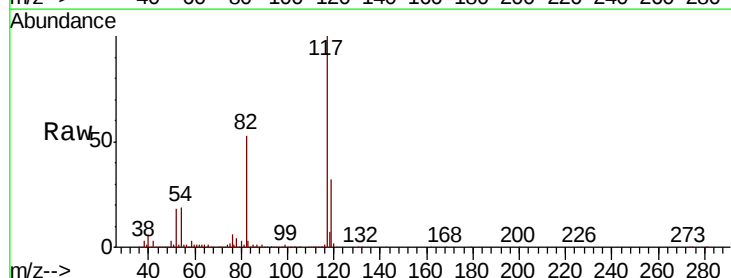
Instrument :
MSVOA_X
ClientSampleId :

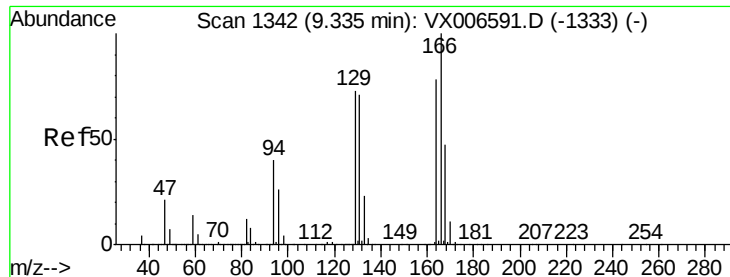
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.3	0.0	182.2
176	85.4	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX006668.D
Acq: 20 Dec 2018 11:47

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.9	41.0	61.6
119	31.9	25.4	38.0





#64

Tetrachloroethene

Concen: 0.709 ug/l

RT: 9.33 min Scan# 1341

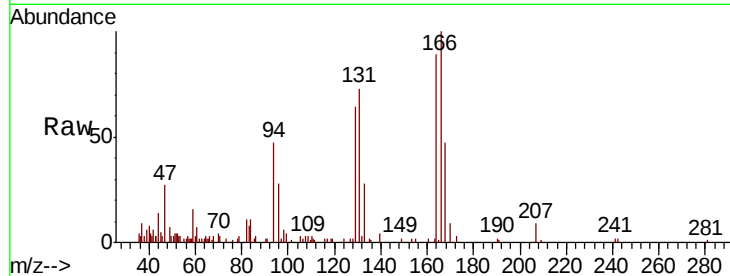
Delta R.T. -0.01 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	164	Resp:	5314
Ion	Ratio	Lower	Upper
164	100		
166	112.7	102.5	153.7
129	72.2	75.1	112.7#
131	82.7	72.7	109.1



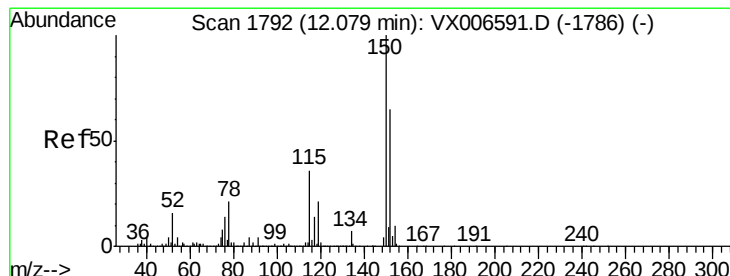
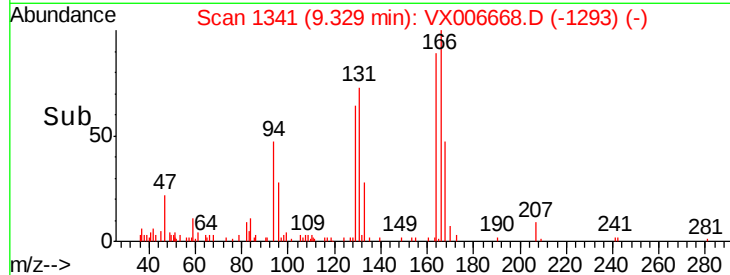
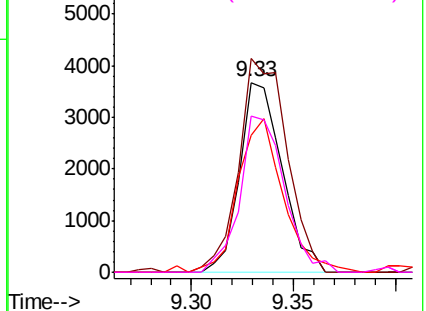
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

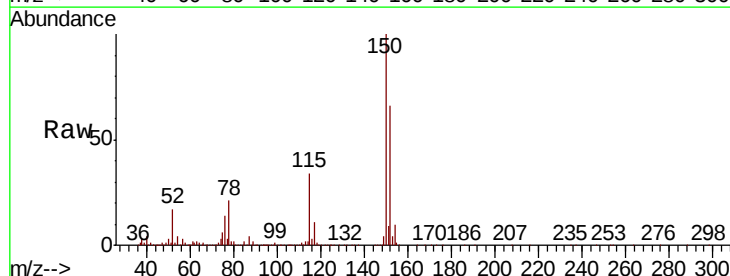
RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

Tgt Ion:	152	Resp:	460839
Ion	Ratio	Lower	Upper
152	100		
115	55.5	39.1	117.2
150	155.7	0.0	344.8

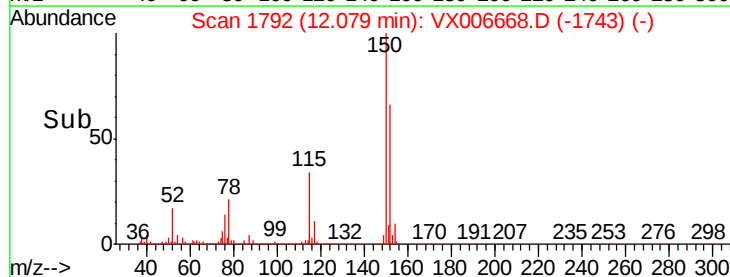
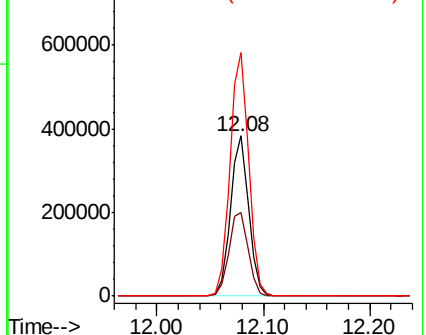


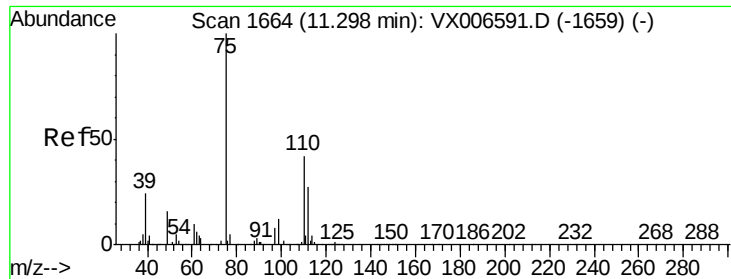
Abundance

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

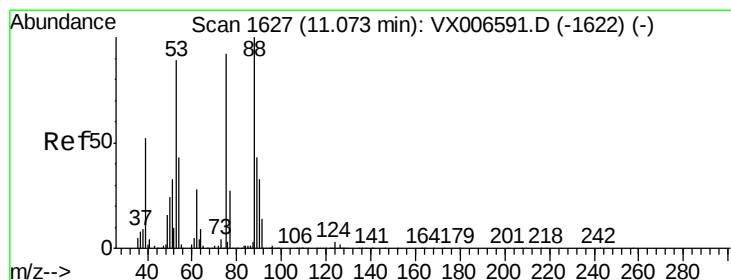
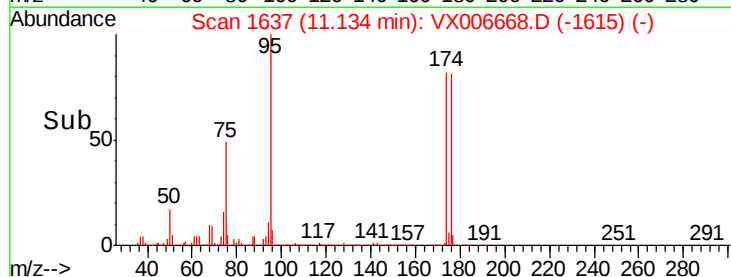
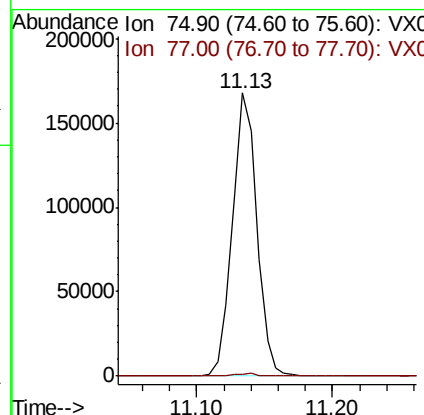
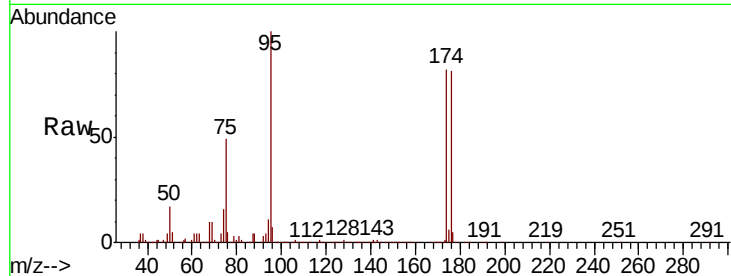




#76
 1,2,3-Trichloropropane
 Concen: 24.442 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006668.D
 Acq: 20 Dec 2018 11:47

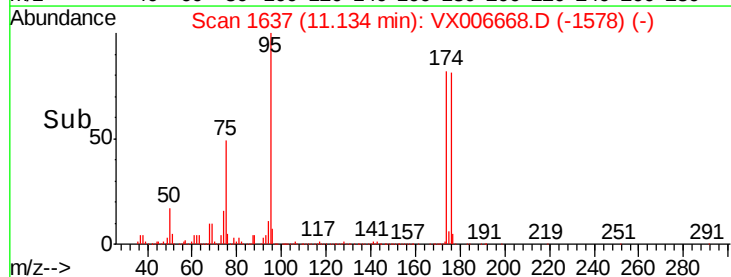
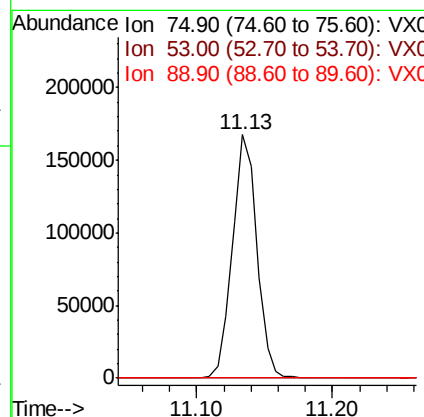
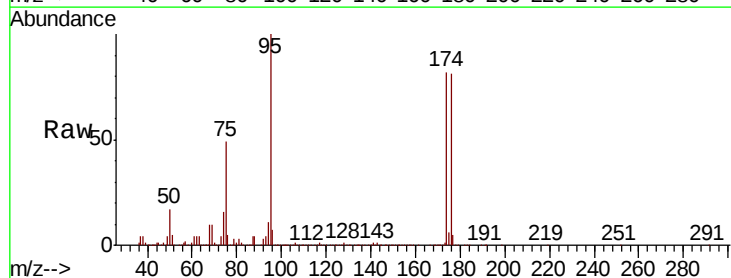
Instrument :
 MSVOA_X
 ClientSampleId :

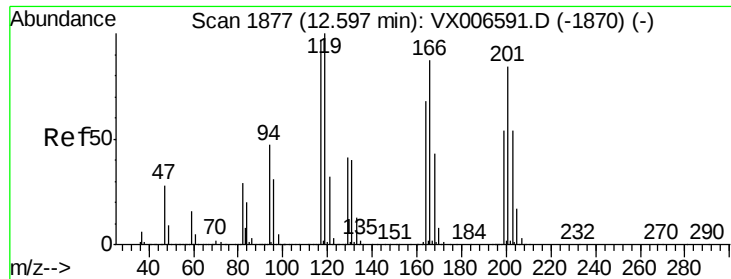
Tot Ion: 75 Resp: 209325
 Ion Ratio Lower Upper
 75 100
 77 1.1 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.319 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006668.D
 Acq: 20 Dec 2018 11:47

Tgt Ion: 75 Resp: 209325
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.305 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX006668.D

Acq: 20 Dec 2018 11:47

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 57

Ion Ratio Lower Upper

117 100

201 33.3 42.9 128.7#

