

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022519\
 Data File : VX007697.D
 Acq On : 26 Feb 2019 06:01
 Operator : JC/SP
 Sample : K1603-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T0-UV(PRE)

Quant Time: Feb 26 06:43:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	344665	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	582574	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	550228	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	250354	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	207483	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
35) Dibromofluoromethane	5.51	113	194930	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
50) Toluene-d8	8.71	98	710993	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
62) 4-Bromofluorobenzene	11.13	95	244848	44.74	ug/l	0.00
Spiked Amount			Recovery	=	89.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	886	0.245	ug/l #	1
5) Bromomethane	1.64	94	308	Below Cal	#	57
6) Chloroethane	1.53	64	41536	18.011	ug/l #	49
11) Tert butyl alcohol	3.06	59	343	0.423	ug/l #	1
12) 1,1-Dichloroethene	2.38	96	2704	0.897	ug/l #	85
15) Acrylonitrile	3.15	53	524	0.275	ug/l #	56
16) Acetone	2.44	43	3993	2.103	ug/l #	68
19) Methyl tert-butyl Ether	3.21	73	35345	3.367	ug/l	99
20) Methylene Chloride	2.86	84	817	0.233	ug/l #	88
21) trans-1,2-Dichloroethene	3.17	96	733	0.224	ug/l #	73
24) 1,1-Dichloroethane	3.70	63	8824	1.399	ug/l	94
27) cis-1,2-Dichloroethene	4.60	96	16262	3.899	ug/l	92
32) 1,1,1-Trichloroethane	5.49	97	3567	0.638	ug/l #	32
36) 1,1-Dichloropropene	5.66	75	23754	4.535	ug/l #	49
38) Carbon Tetrachloride	5.67	117	32267	6.133	ug/l #	21
41) Methacrylonitrile	5.06	41	862	0.277	ug/l #	47
44) Trichloroethene	7.21	130	331316	74.492	ug/l	97
49) 1,4-Dioxane	7.76	88	610	6.017	ug/l #	79
53) t-1,3-Dichloropropene	9.04	75	202	2.833	ug/l #	43
60) Dibromochloromethane	9.34	129	34058	8.325	ug/l #	13
64) Tetrachloroethene	9.34	164	36011	8.062	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	121738	22.813	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	121738	60.462	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

Instrument :

MSVOA_X

ClientSampleId :

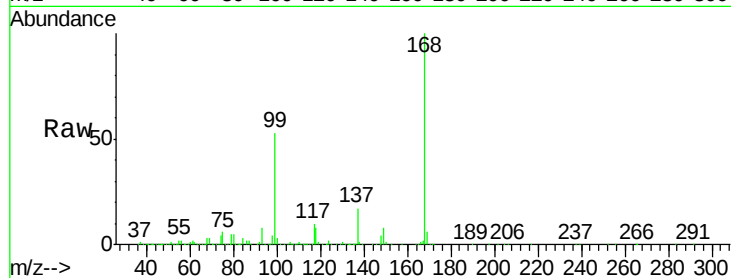
M1-T0-UV(PRE)

Tot Ion:168 Resp: 344665

Ion Ratio Lower Upper

168 100

99 52.5 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

150000

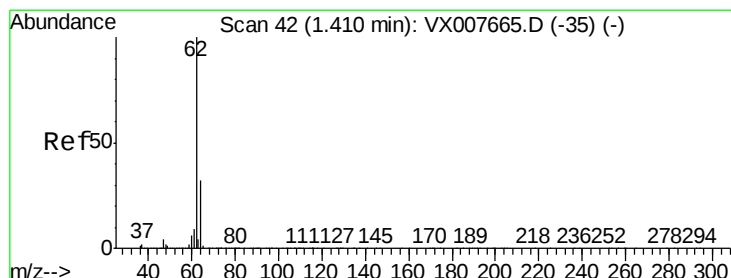
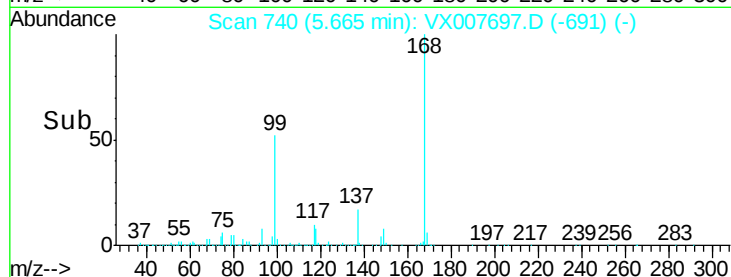
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#4

Vinyl Chloride

Concen: 0.245 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX007697.D

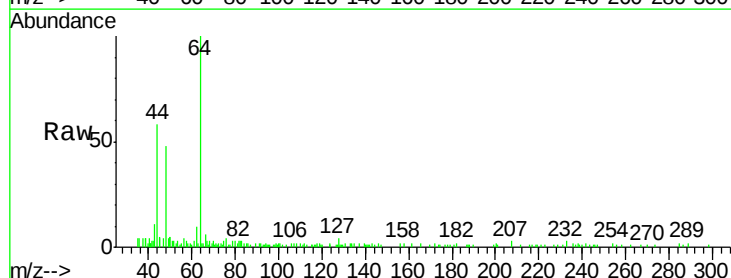
Acq: 26 Feb 2019 06:01

Tgt Ion: 62 Resp: 886

Ion Ratio Lower Upper

62 100

64 435.4 25.4 38.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

15000

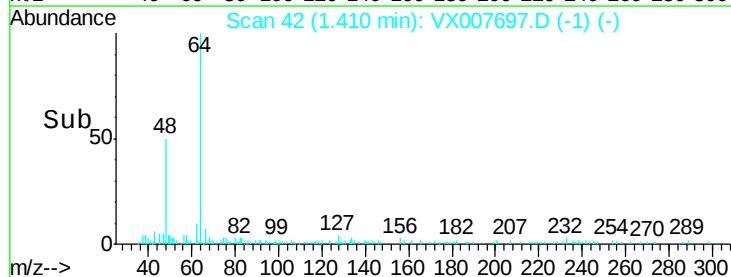
10000

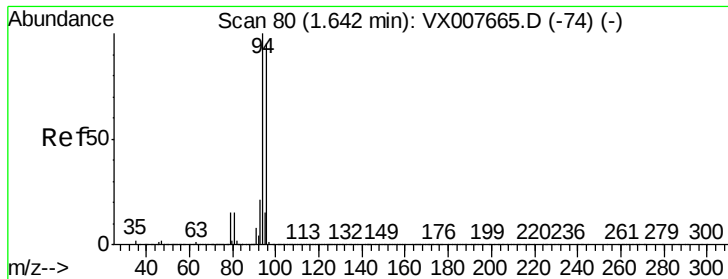
5000

0

1.35 1.40 1.45

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

Instrument :

MSVOA_X

ClientSampleId :

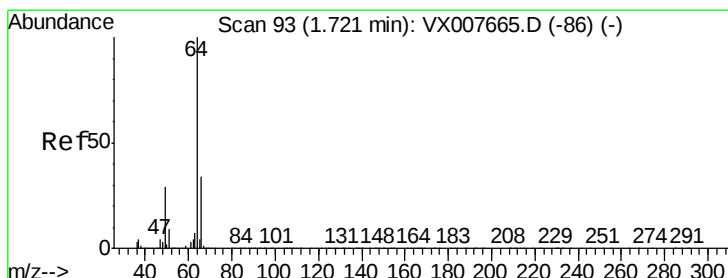
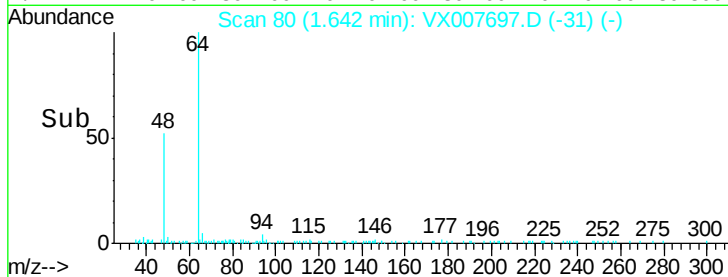
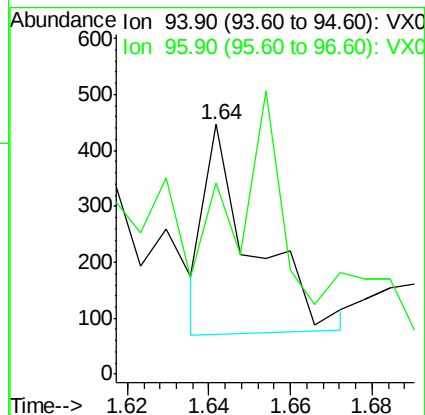
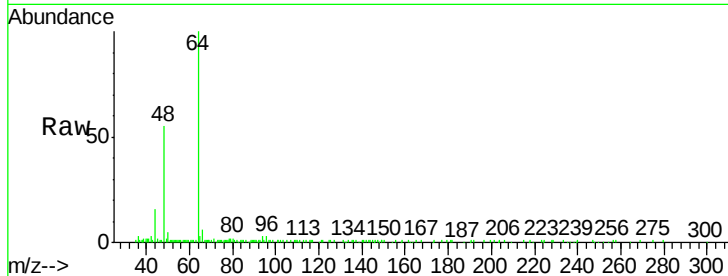
M1-T0-UV(PRE)

Tot Ion: 94 Resp: 308

Ion Ratio Lower Upper

94 100

96 51.4 73.9 110.9#



#6

Chloroethane

Concen: 18.011 ug/l

RT: 1.53 min Scan# 61

Delta R.T. -0.20 min

Lab File: VX007697.D

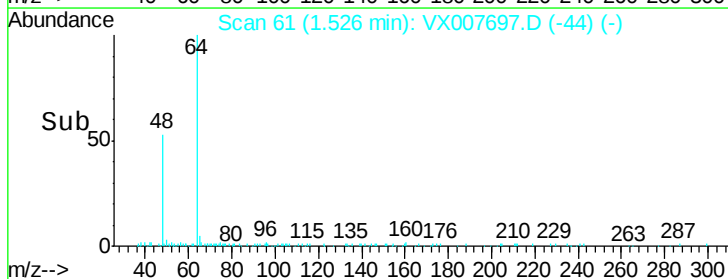
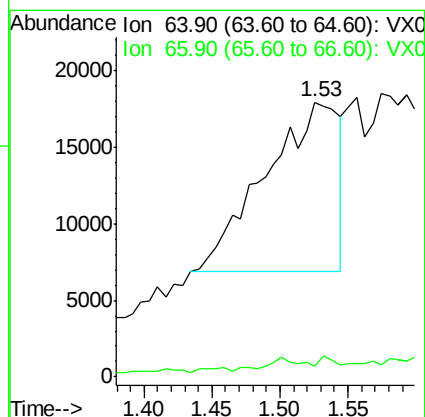
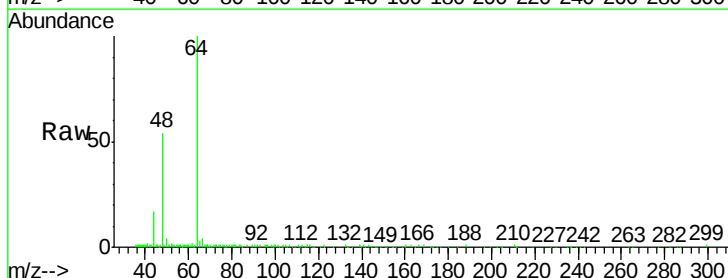
Acq: 26 Feb 2019 06:01

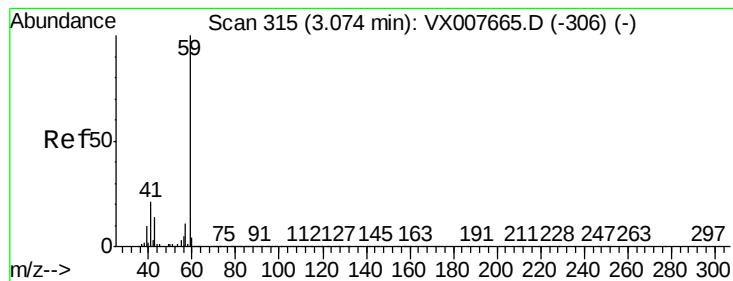
Tgt Ion: 64 Resp: 41536

Ion Ratio Lower Upper

64 100

66 3.4 25.5 38.3#



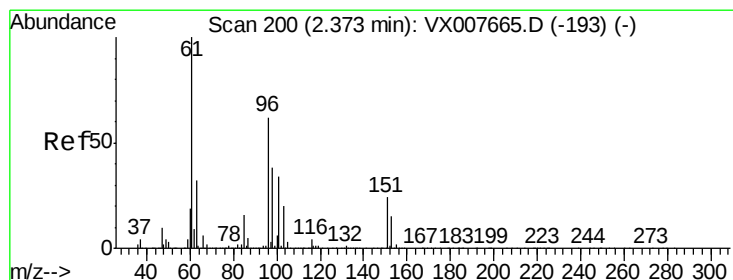
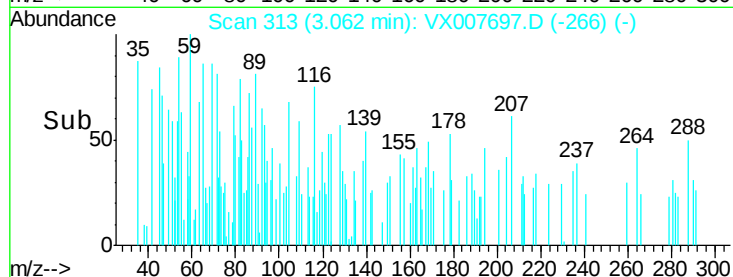
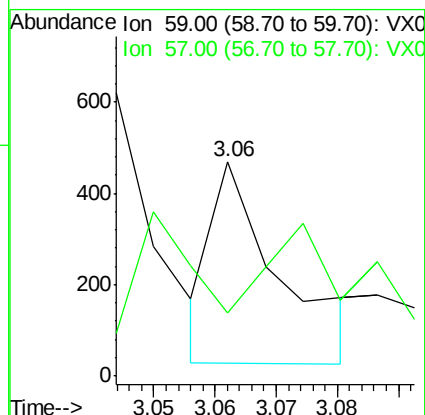
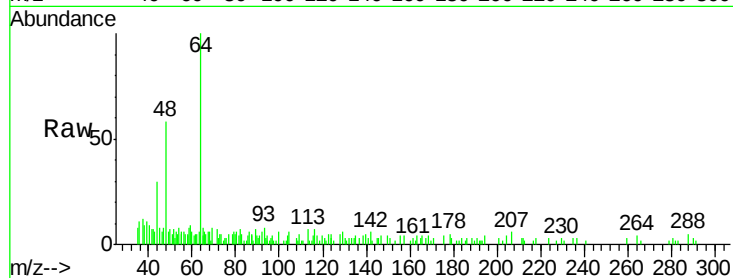


#11

Tert butyl alcohol
Concen: 0.423 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.01 min
Lab File: VX007697.D
Acq: 26 Feb 2019 06:01

Instrument :
MSVOA_X
ClientSampleId :
M1-T0-UV(PRE)

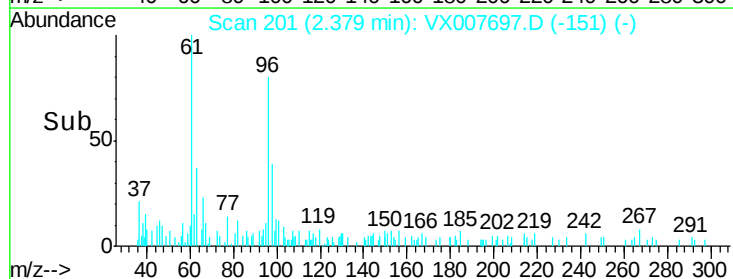
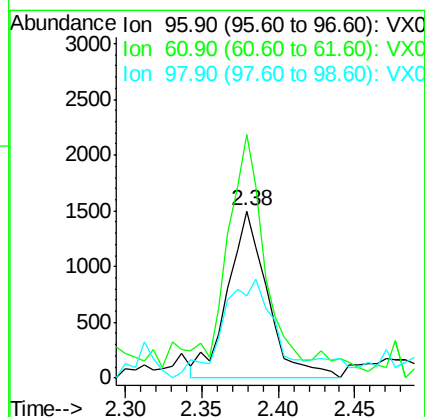
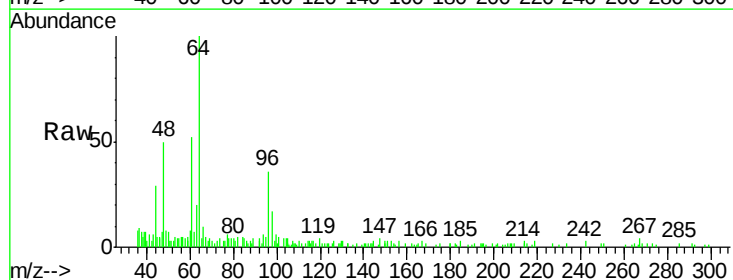
Tot Ion: 59 Resp: 343
Ion Ratio Lower Upper
59 100
57 126.5 8.1 12.1#

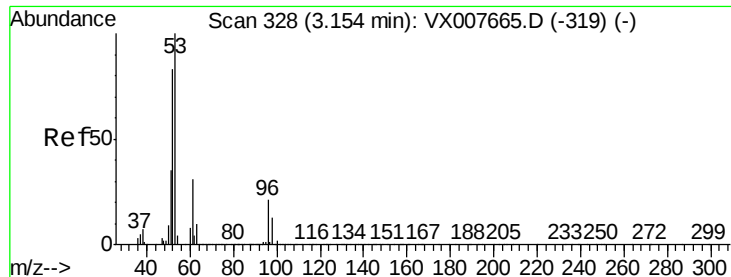


#12

1,1-Dichloroethene
Concen: 0.897 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX007697.D
Acq: 26 Feb 2019 06:01

Tgt Ion: 96 Resp: 2704
Ion Ratio Lower Upper
96 100
61 142.7 123.0 184.4
98 40.4 50.9 76.3#





#15

Acrylonitrile

Concen: 0.275 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

Instrument :

MSVOA_X

ClientSampleId :

M1-T0-UV(PRE)

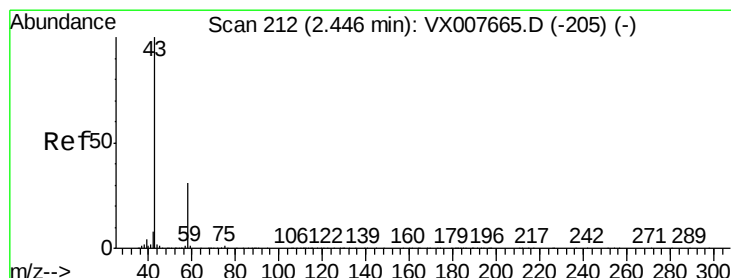
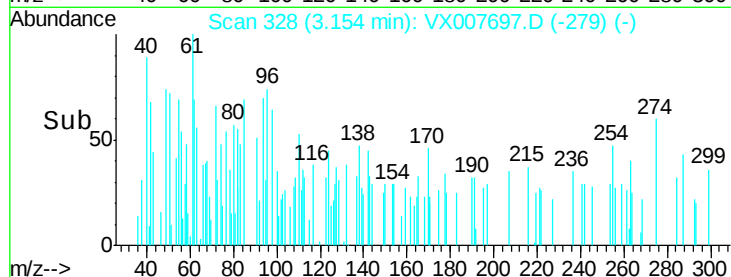
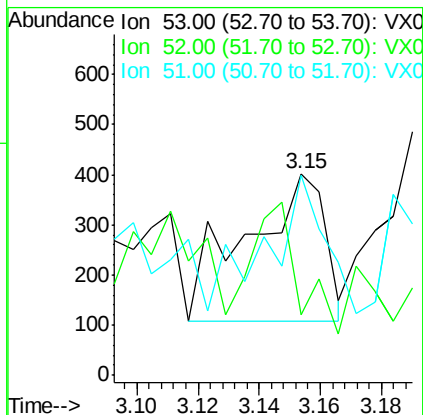
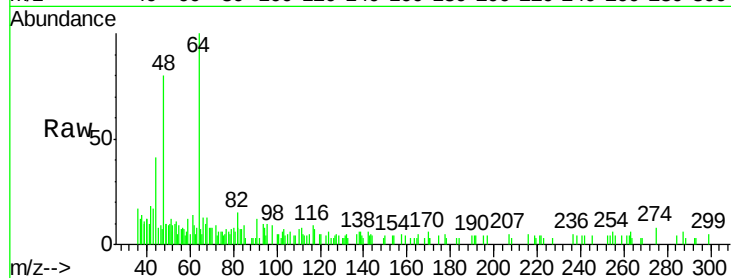
Tot Ion: 53 Resp: 524

Ion Ratio Lower Upper

53 100

52 52.7 66.4 99.6#

51 76.0 28.4 42.6#



#16

Acetone

Concen: 2.103 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX007697.D

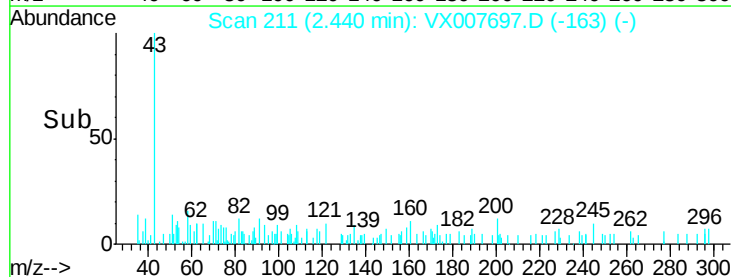
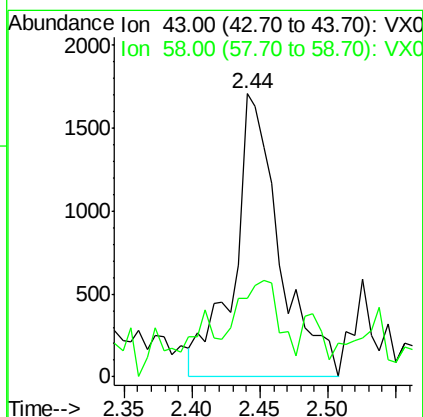
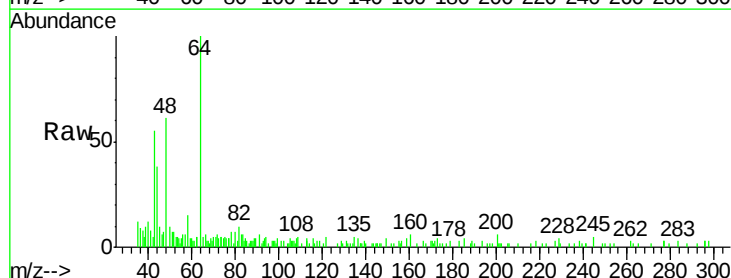
Acq: 26 Feb 2019 06:01

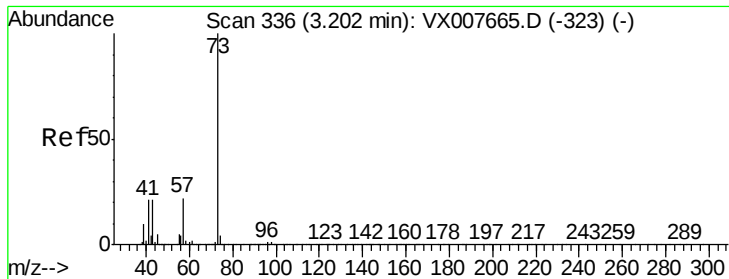
Tgt Ion: 43 Resp: 3993

Ion Ratio Lower Upper

43 100

58 13.6 24.9 37.3#



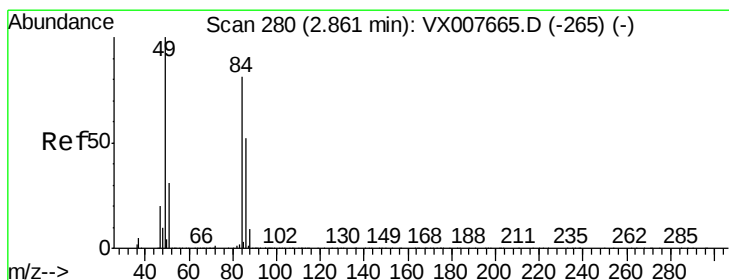
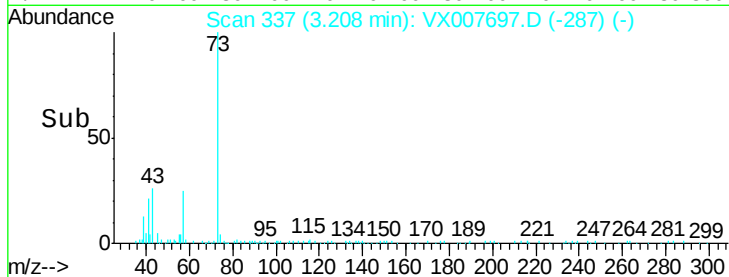
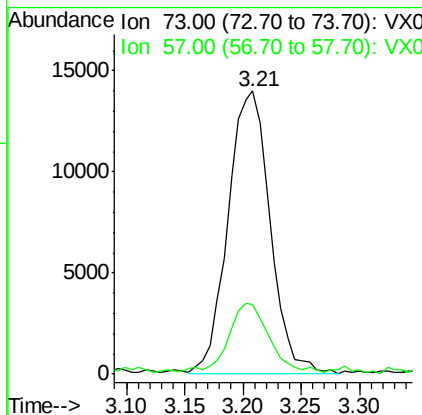
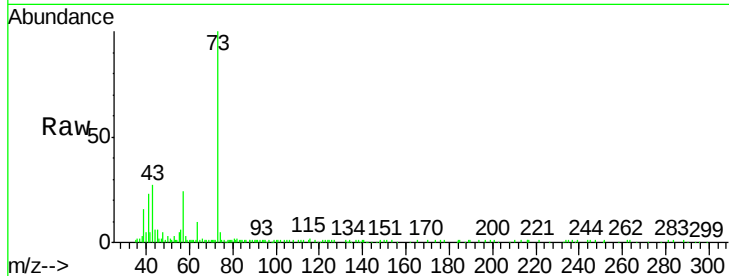


#19

Methyl tert-butyl Ether
 Concen: 3.367 ug/l
 RT: 3.21 min Scan# 337
 Delta R.T. 0.01 min
 Lab File: VX007697.D
 Acq: 26 Feb 2019 06:01

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T0-UV(PRE)

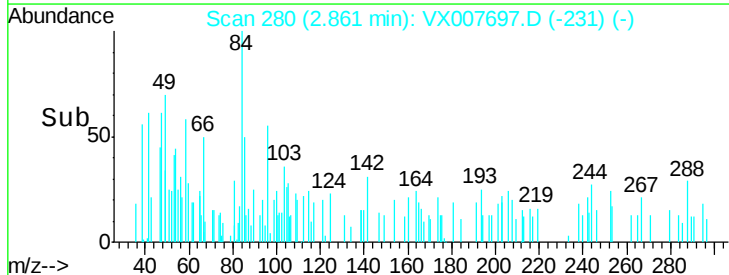
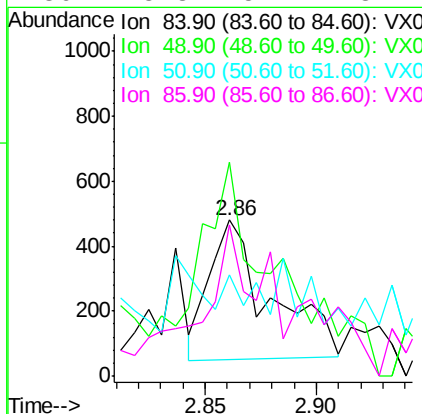
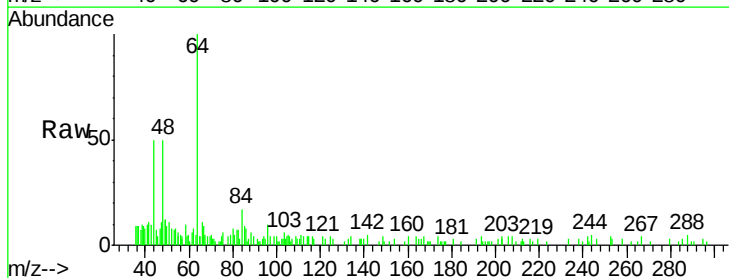
Tot Ion: 73 Resp: 35345
 Ion Ratio Lower Upper
 73 100
 57 22.8 17.8 26.8

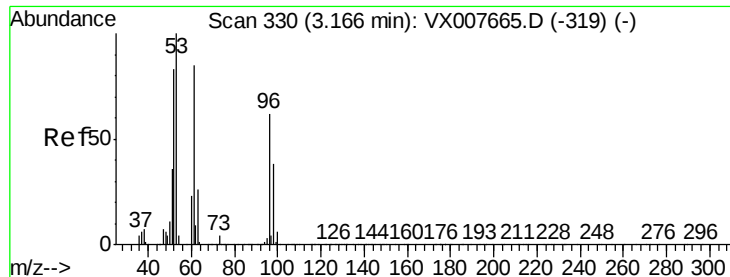


#20

Methylene Chloride
 Concen: 0.233 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX007697.D
 Acq: 26 Feb 2019 06:01

Tgt Ion: 84 Resp: 817
 Ion Ratio Lower Upper
 84 100
 49 129.3 94.8 142.2
 51 24.9 29.8 44.8#
 86 75.3 54.1 81.1





#21

trans-1,2-Dichloroethene

Concen: 0.224 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

Instrument :

MSVOA_X

ClientSampleId :

M1-T0-UV(PRE)

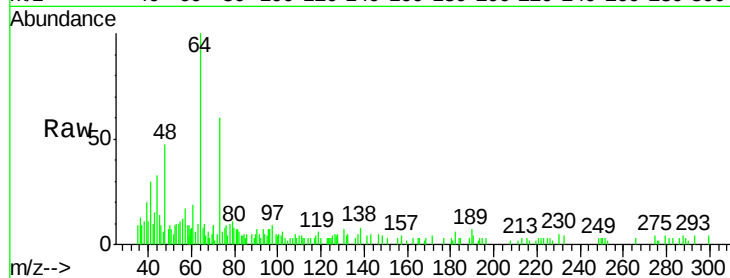
Tot Ion: 96 Resp: 733

Ion Ratio Lower Upper

96 100

61 130.2 104.6 156.8

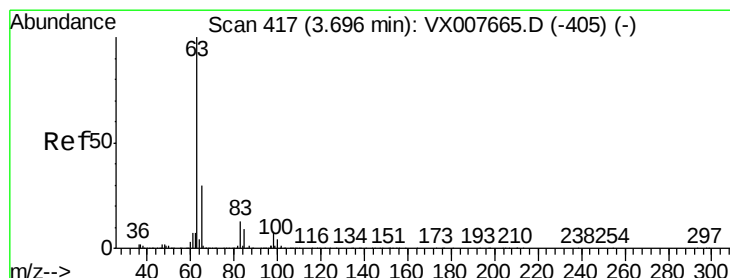
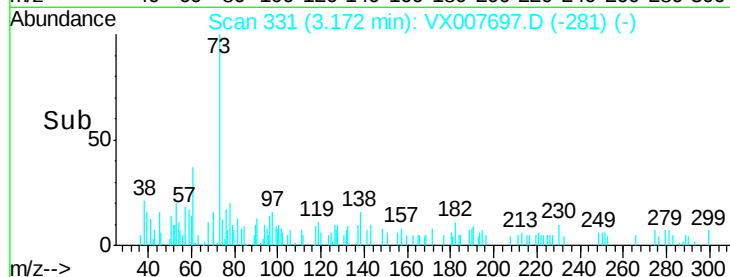
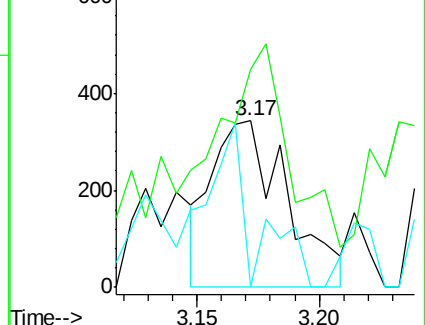
98 0.0 51.0 76.4#



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



#24

1,1-Dichloroethane

Concen: 1.399 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

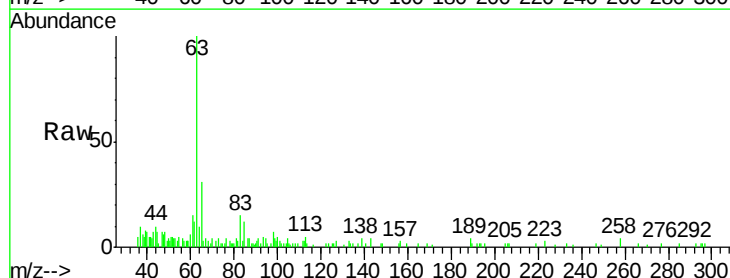
Tgt Ion: 63 Resp: 8824

Ion Ratio Lower Upper

63 100

98 5.1 3.6 10.8

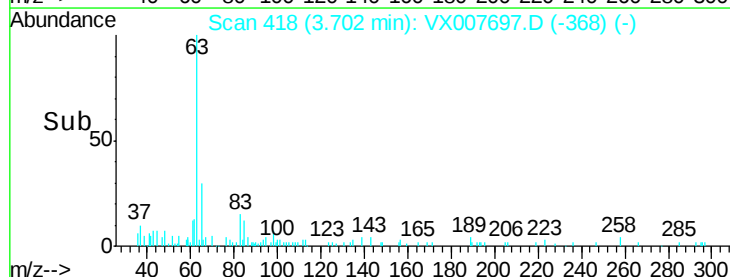
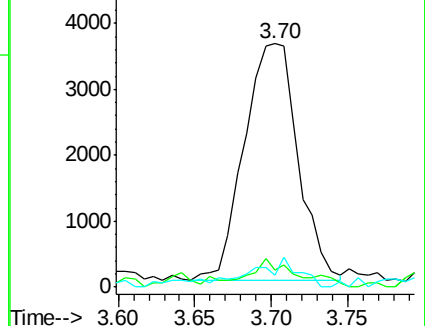
100 2.8 2.5 7.4

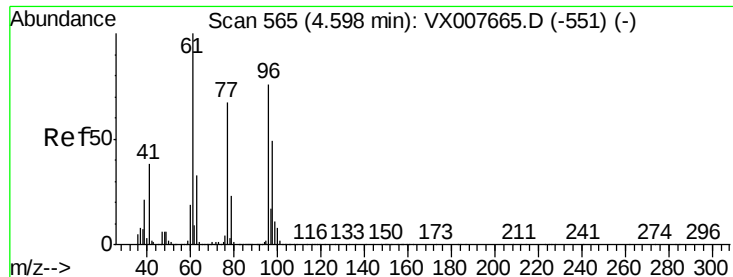


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



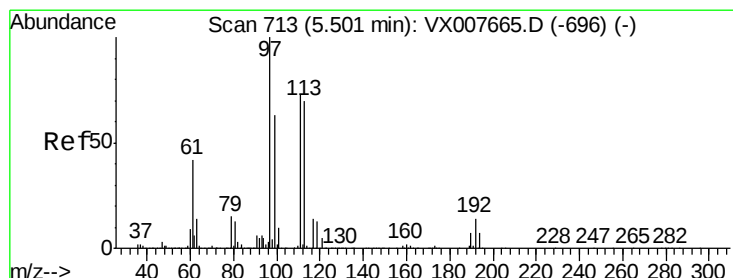
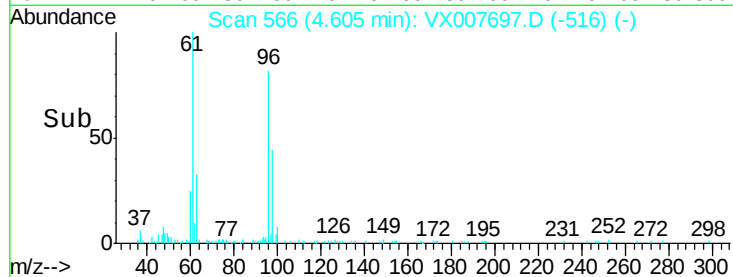
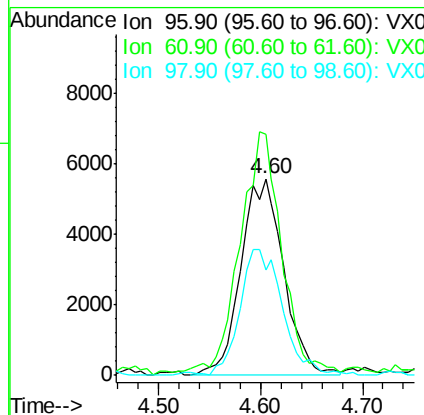
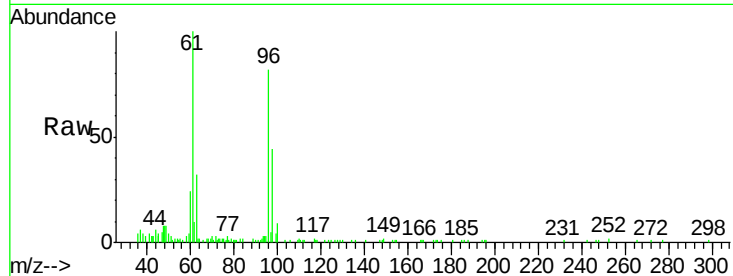


#27

cis-1,2-Dichloroethene
Concen: 3.899 ug/l
RT: 4.60 min Scan# 566
Delta R.T. 0.01 min
Lab File: VX007697.D
Acq: 26 Feb 2019 06:01

Instrument :
MSVOA_X
ClientSampleId :
M1-T0-UV(PRE)

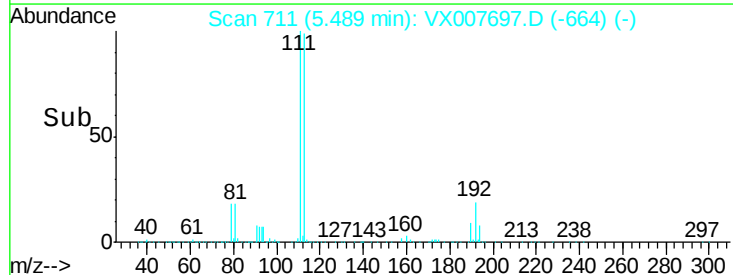
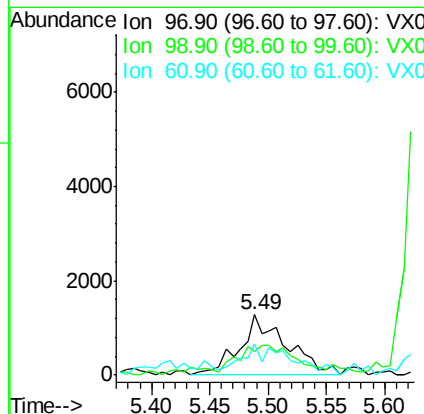
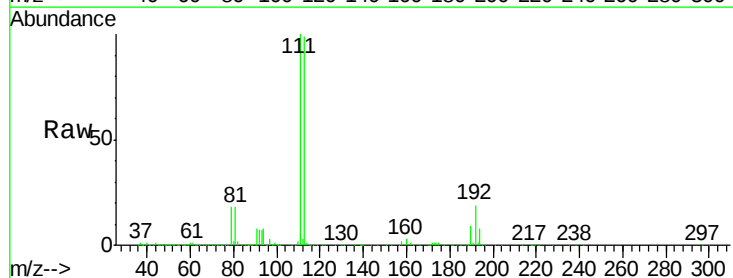
Tot Ion	Ratio	Lower	Upper
96	100		
61	119.3	0.0	265.6
98	63.8	0.0	131.6

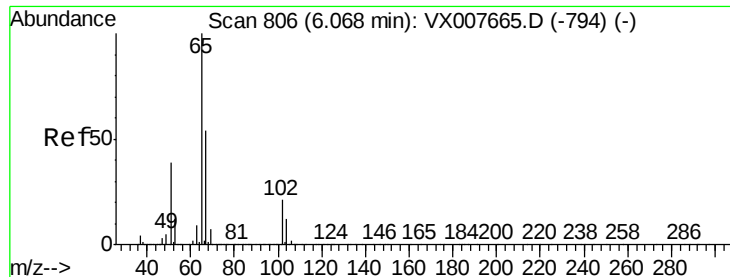


#32

1,1,1-Trichloroethane
Concen: 0.638 ug/l
RT: 5.49 min Scan# 711
Delta R.T. -0.01 min
Lab File: VX007697.D
Acq: 26 Feb 2019 06:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.2	78.2#
61	13.6	32.7	49.1#





#33

1,2-Dichloroethane-d4

Concen: 48.599 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

Instrument :

MSVOA_X

ClientSampleId :

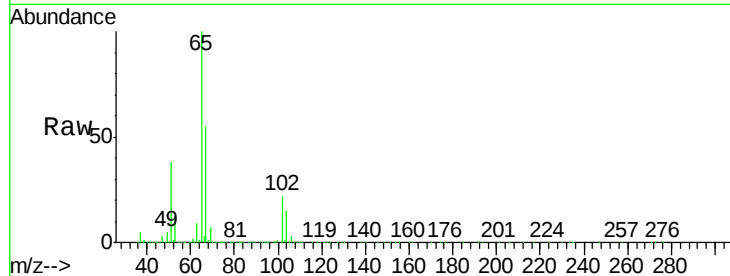
M1-T0-UV(PRE)

Tot Ion: 65 Resp: 207483

Ion Ratio Lower Upper

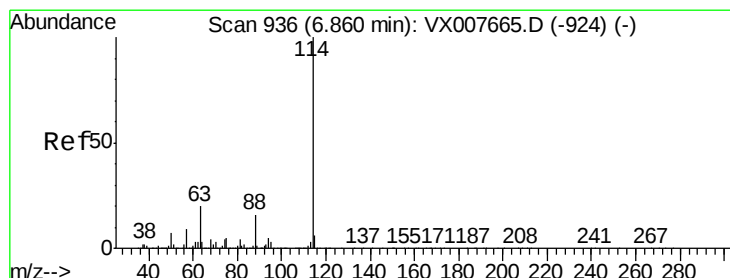
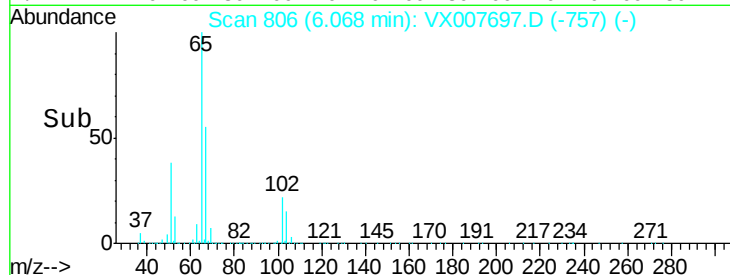
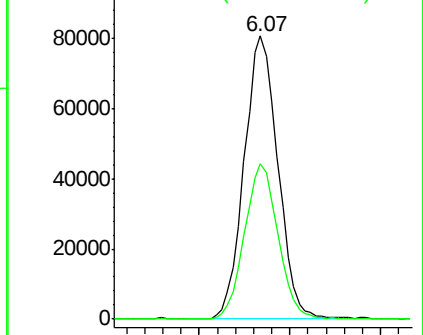
65 100

67 54.1 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

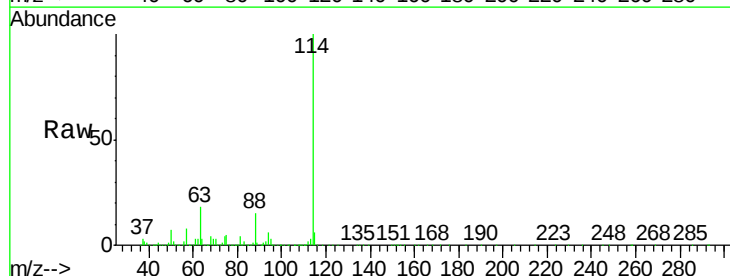
Tgt Ion: 114 Resp: 582574

Ion Ratio Lower Upper

114 100

63 17.7 0.0 35.6

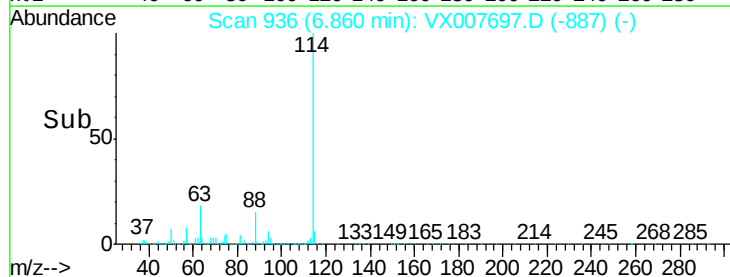
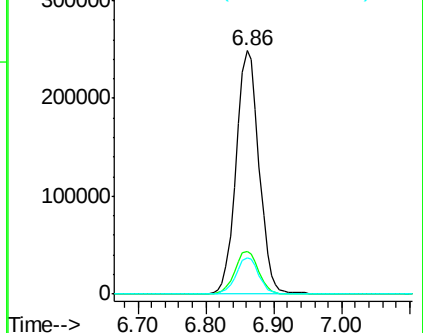
88 15.1 0.0 29.6

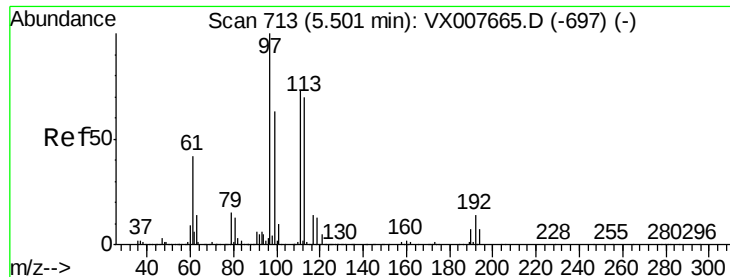


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.055 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

Instrument :

MSVOA_X

ClientSampleId :

M1-T0-UV(PRE)

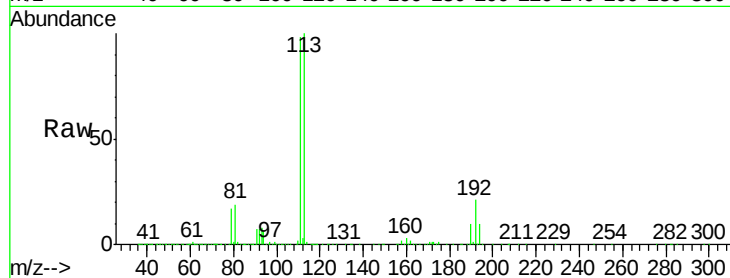
Tot Ion:113 Resp: 194930

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

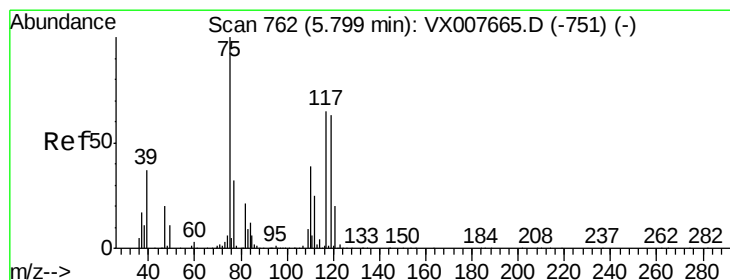
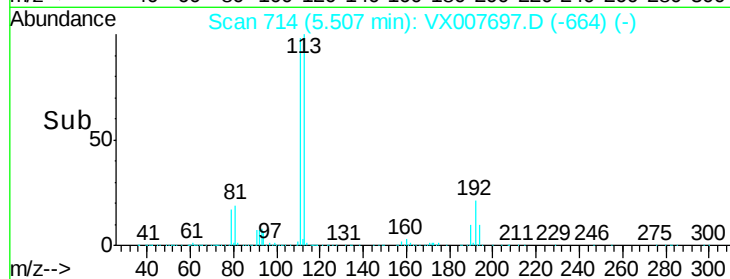
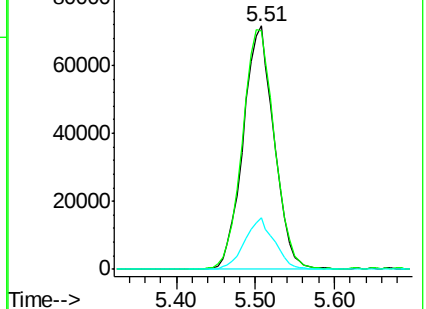
192 20.5 18.5 27.7



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: 4.535 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

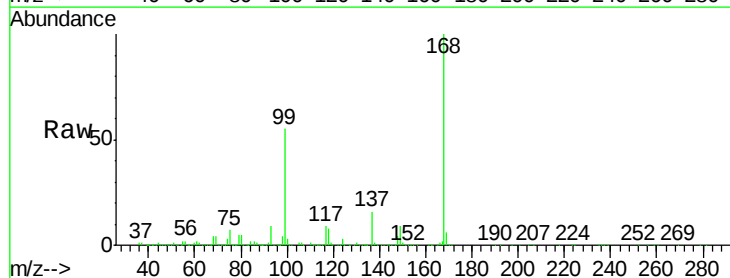
Tgt Ion: 75 Resp: 23754

Ion Ratio Lower Upper

75 100

110 11.3 20.0 59.9#

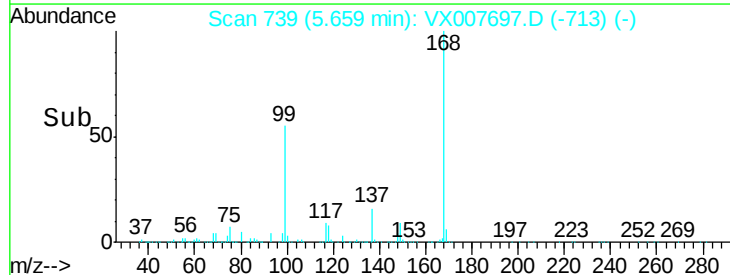
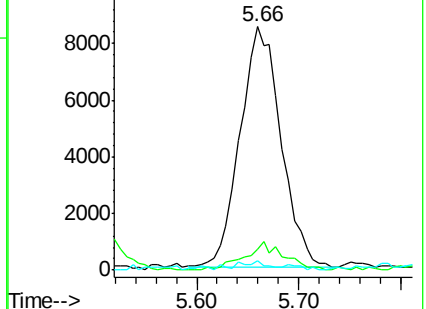
77 0.0 24.7 37.1#

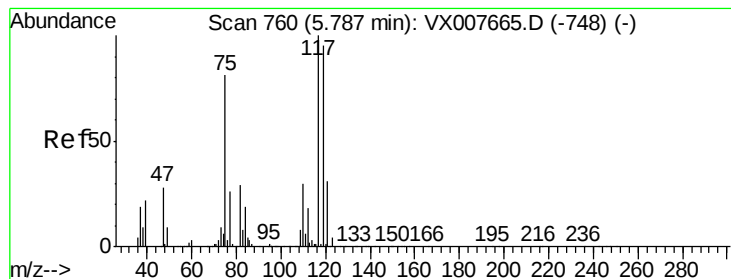


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.133 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

Instrument :

MSVOA_X

ClientSampleId :

M1-T0-UV(PRE)

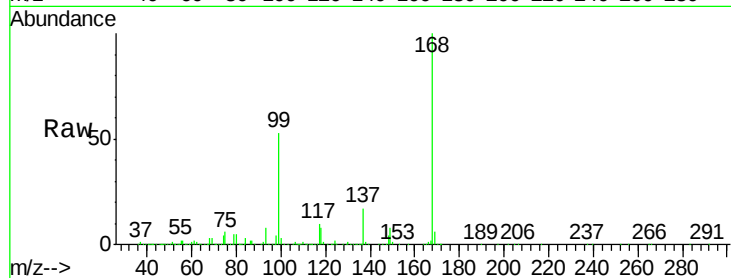
Tot Ion:117 Resp: 32267

Ion Ratio Lower Upper

117 100

119 9.8 75.3 112.9#

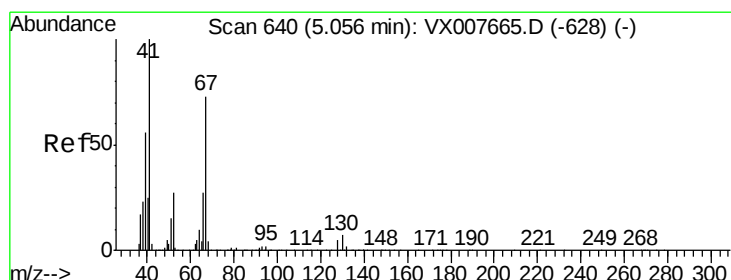
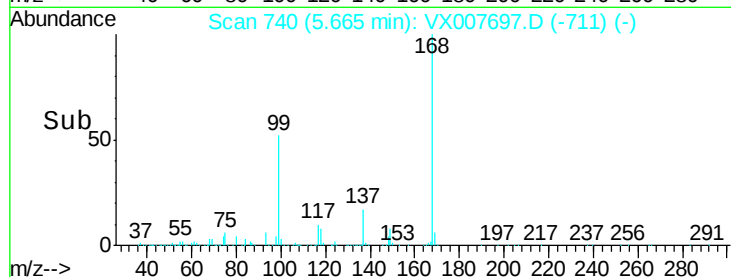
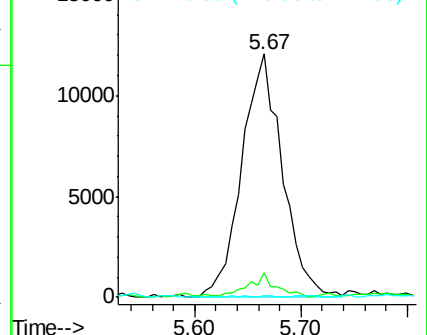
121 0.5 25.0 37.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.277 ug/l

RT: 5.06 min Scan# 640

Delta R.T. 0.00 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

Tgt Ion: 41 Resp: 862

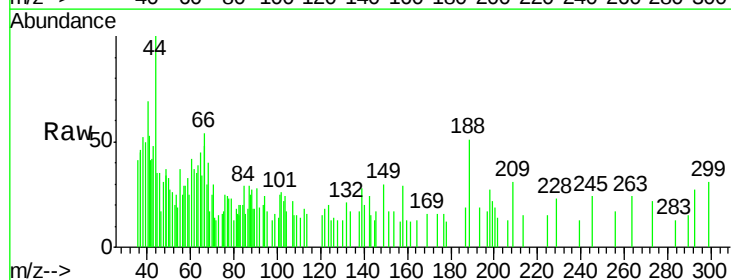
Ion Ratio Lower Upper

41 100

39 35.2 44.5 66.7#

67 14.8 60.4 90.6#

52 0.0 24.1 36.1#

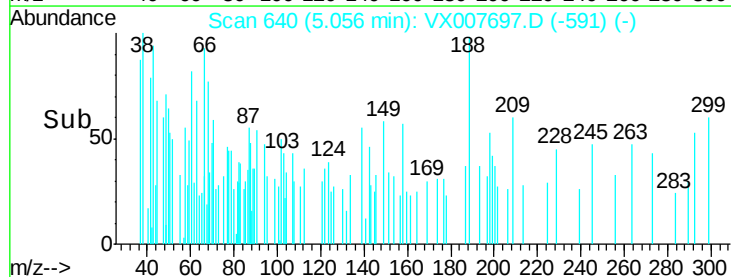
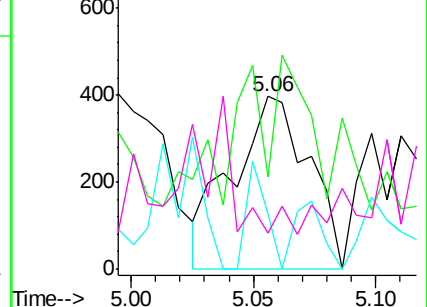


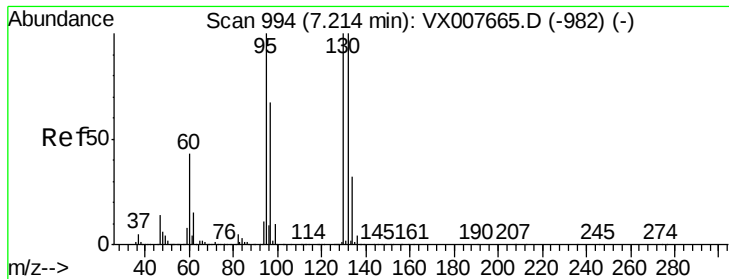
Abundance Ion 41.00 (40.70 to 41.70): VX0

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: 74.492 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

Instrument :

MSVOA_X

ClientSampleId :

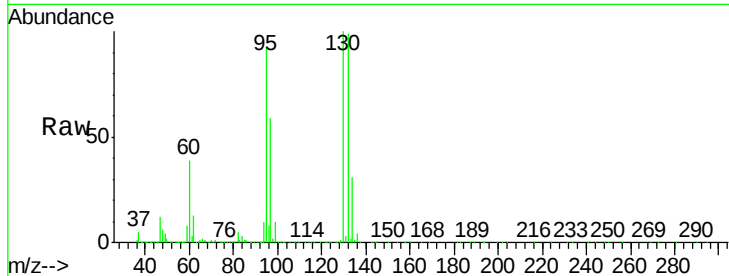
M1-T0-UV(PRE)

Tot Ion:130 Resp: 331316

Ion Ratio Lower Upper

130 100

95 92.9 0.0 180.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

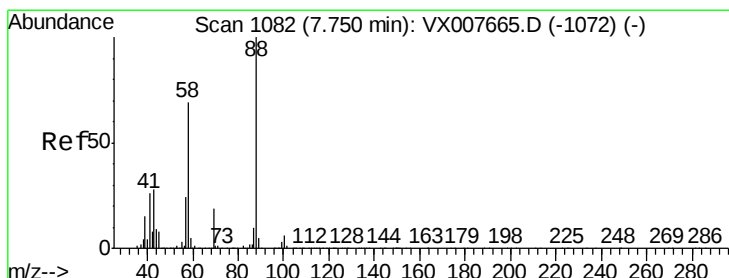
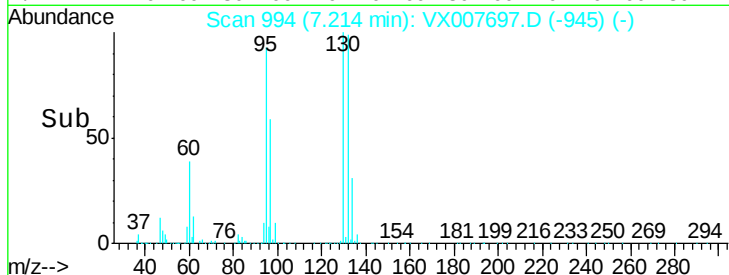
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 6.017 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

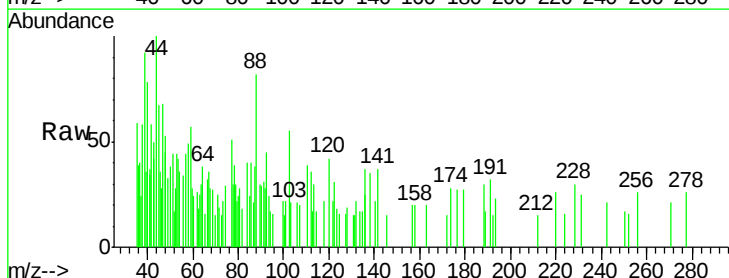
Tgt Ion: 88 Resp: 610

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

58 70.8 53.0 79.4



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

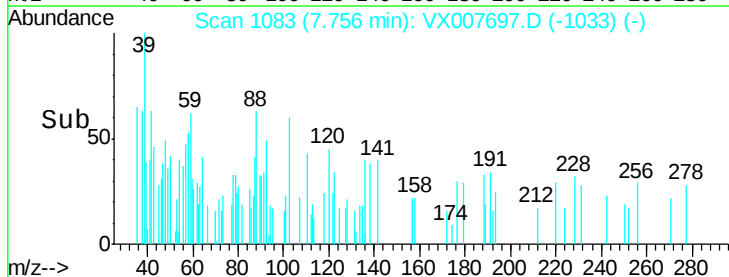
300

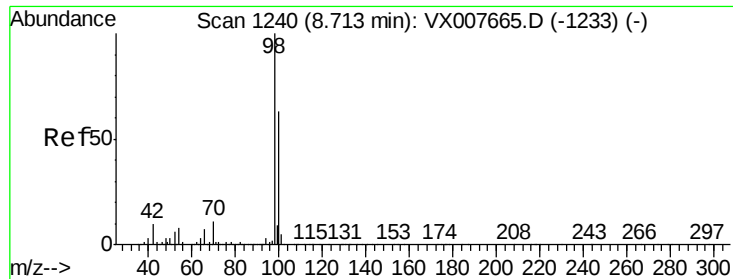
200

100

0

Time-->





#50

Toluene-d8

Concen: 47.689 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

Instrument :

MSVOA_X

ClientSampleId :

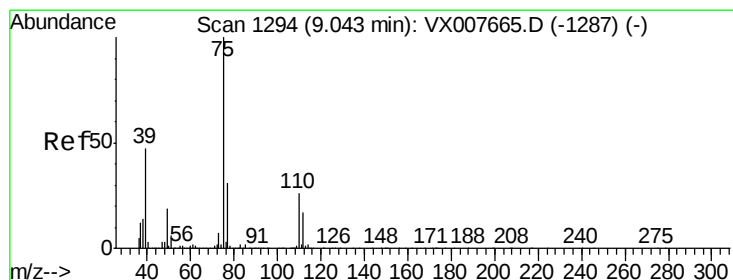
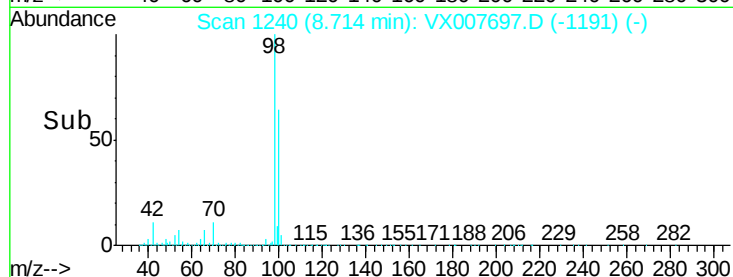
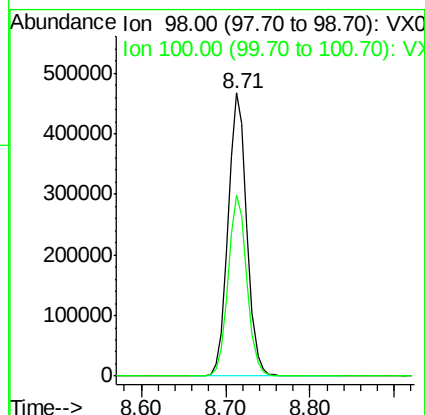
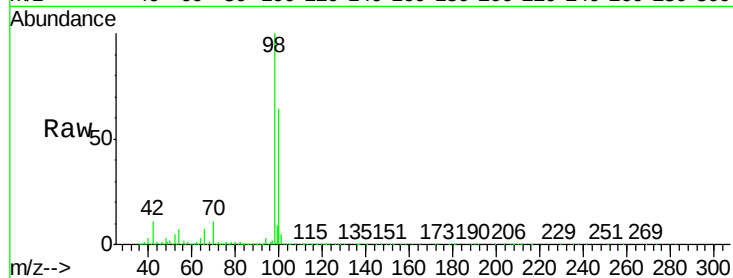
M1-T0-UV(PRE)

Tot Ion: 98 Resp: 710993

Ion Ratio Lower Upper

98 100

100 64.1 51.6 77.4



#53

t-1,3-Dichloropropene

Concen: 2.833 ug/l

RT: 9.04 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VX007697.D

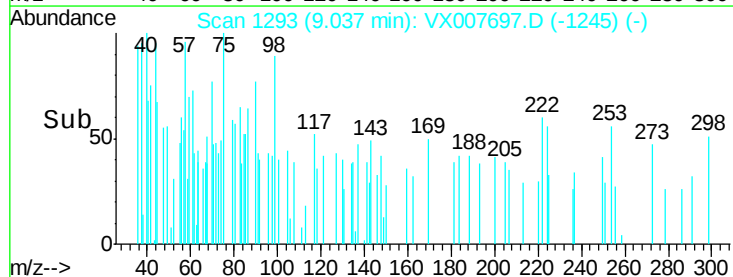
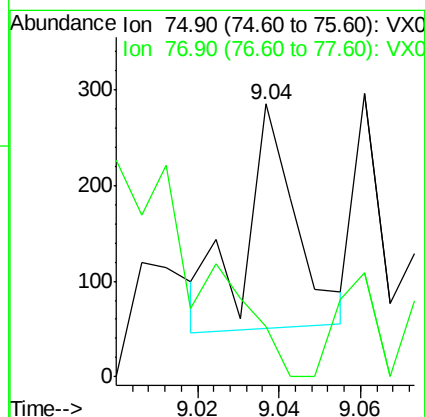
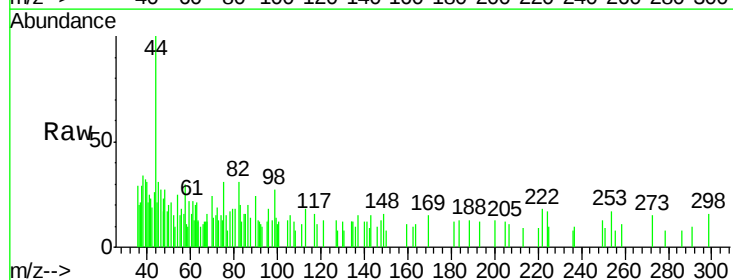
Acq: 26 Feb 2019 06:01

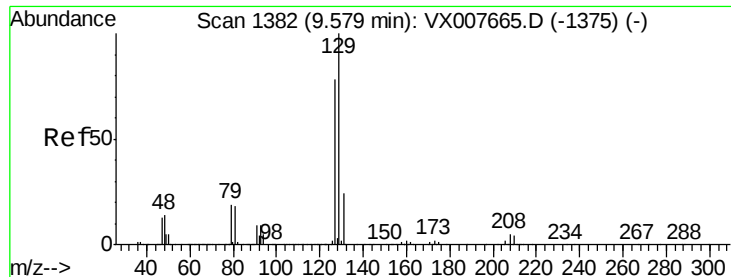
Tgt Ion: 75 Resp: 202

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#





#60

Dibromochloromethane

Concen: 8.325 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

Instrument :

MSVOA_X

ClientSampleId :

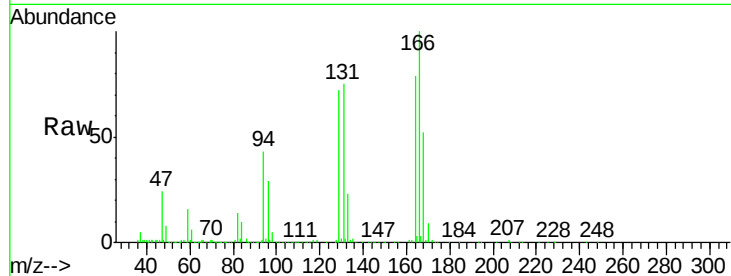
M1-T0-UV(PRE)

Tot Ion:129 Resp: 34058

Ion Ratio Lower Upper

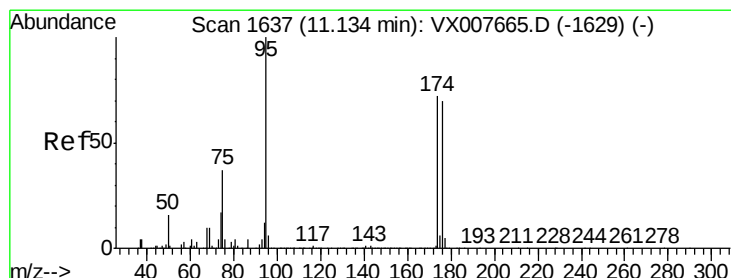
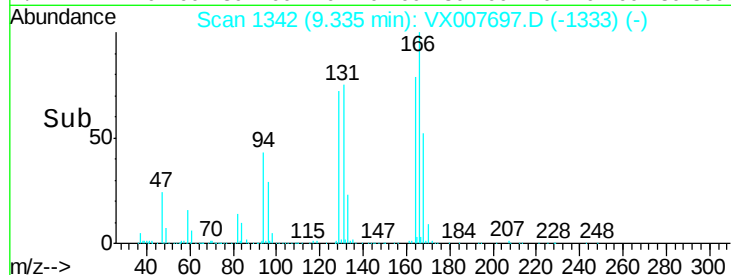
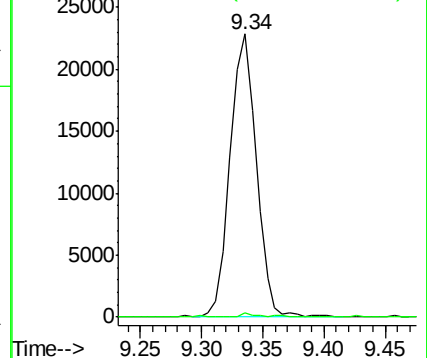
129 100

127 0.9 37.8 113.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.745 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

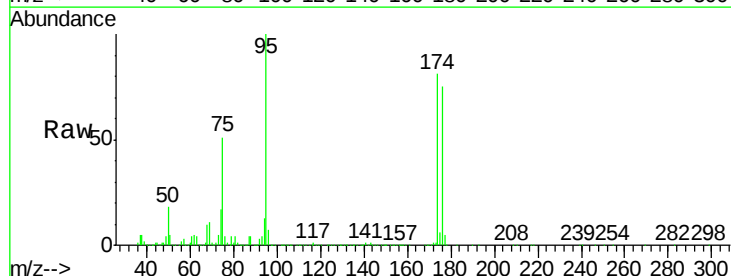
Tgt Ion: 95 Resp: 244848

Ion Ratio Lower Upper

95 100

174 86.1 0.0 189.2

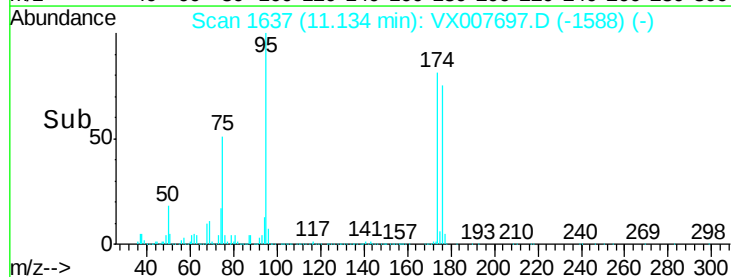
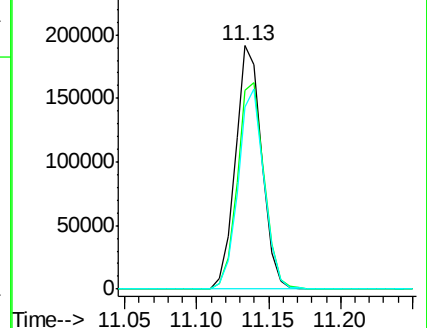
176 81.4 0.0 186.2

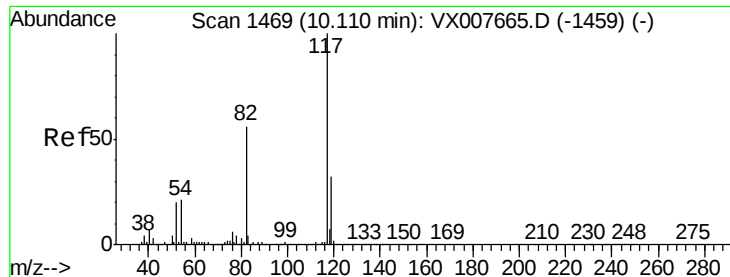


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

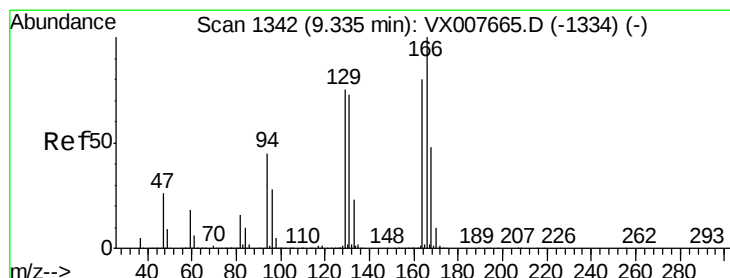
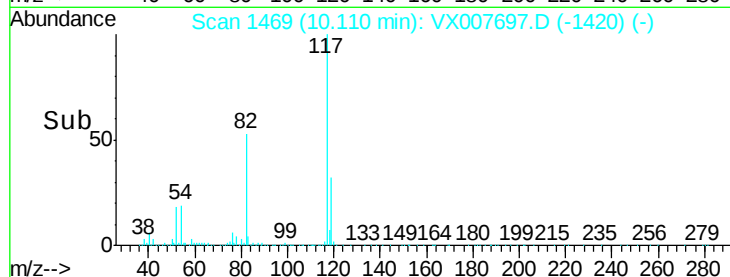
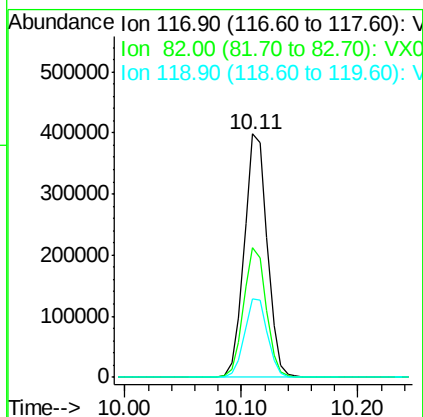
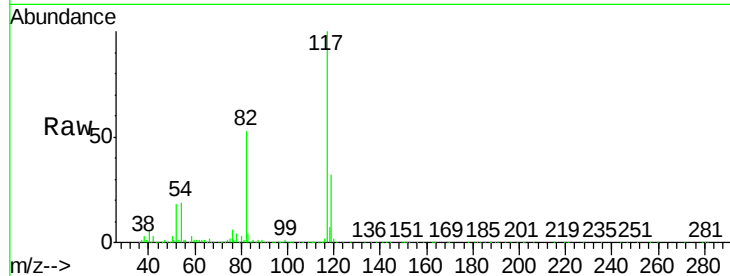




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007697.D
Acq: 26 Feb 2019 06:01

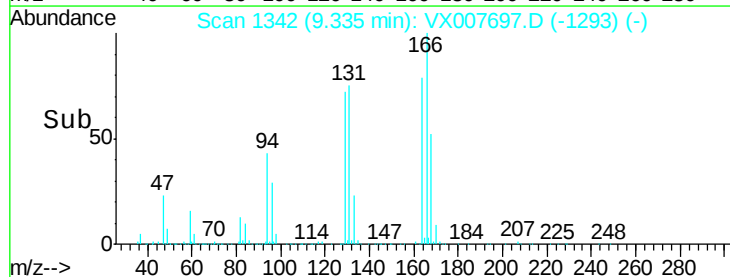
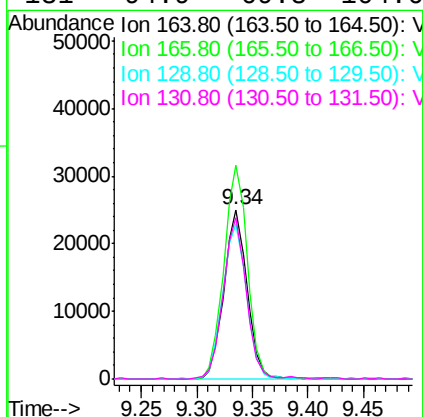
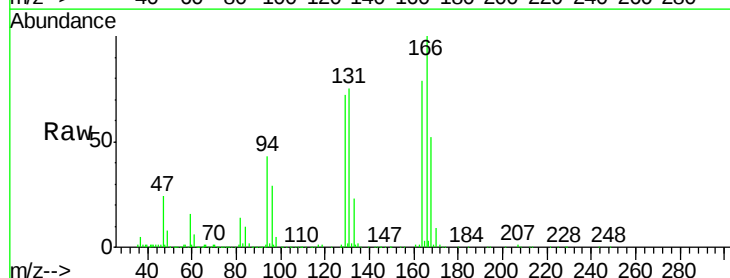
Instrument :
MSVOA_X
ClientSampleId :
M1-T0-UV(PRE)

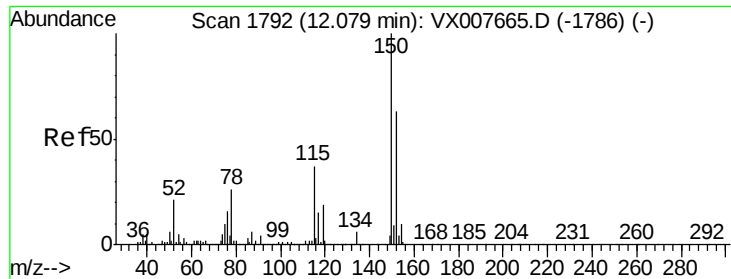
Tot Ion:117 Resp: 550228
Ion Ratio Lower Upper
117 100
82 53.2 42.1 63.1
119 32.3 26.5 39.7



#64
Tetrachloroethene
Concen: 8.062 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX007697.D
Acq: 26 Feb 2019 06:01

Tgt Ion:164 Resp: 36011
Ion Ratio Lower Upper
164 100
166 126.4 101.0 151.4
129 91.4 70.5 105.7
131 94.9 69.8 104.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

Instrument :

MSVOA_X

ClientSampleId :

M1-T0-UV(PRE)

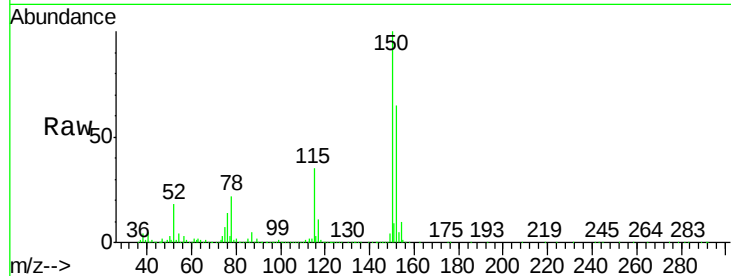
Tot Ion:152 Resp: 250354

Ion Ratio Lower Upper

152 100

115 56.1 38.0 114.0

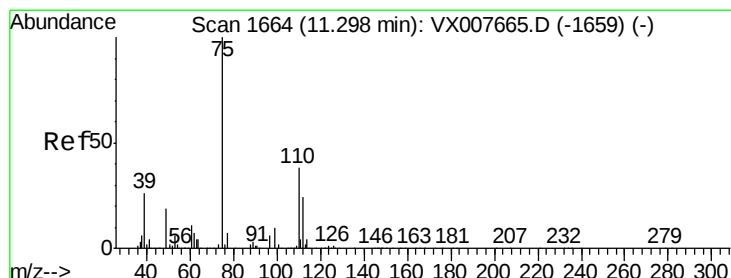
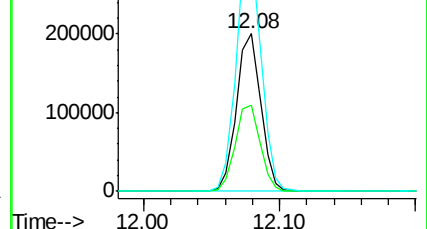
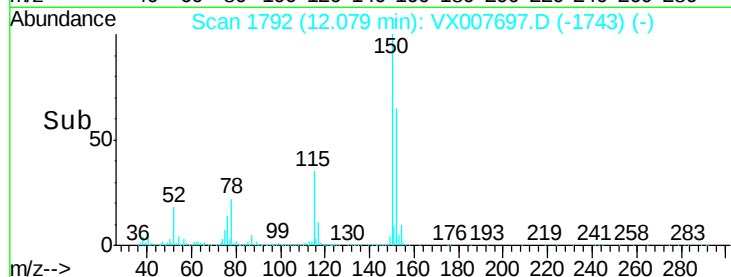
150 155.7 0.0 346.4



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: 22.813 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007697.D

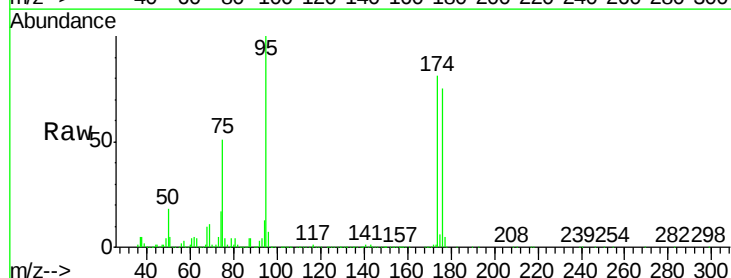
Acq: 26 Feb 2019 06:01

Tgt Ion: 75 Resp: 121738

Ion Ratio Lower Upper

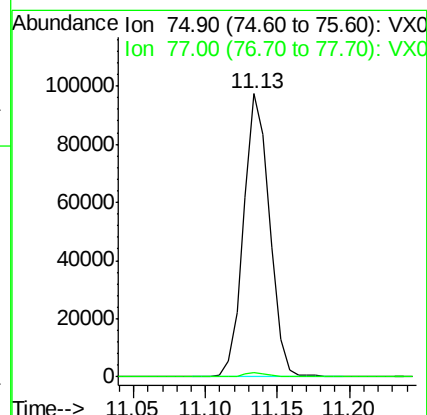
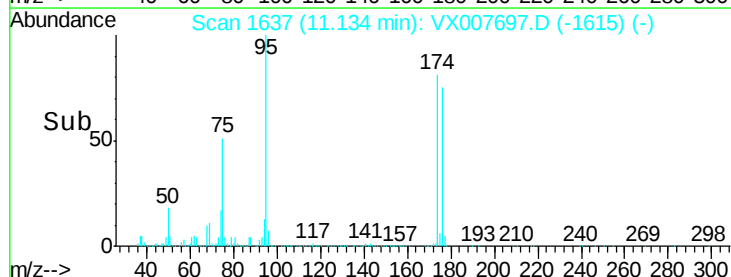
75 100

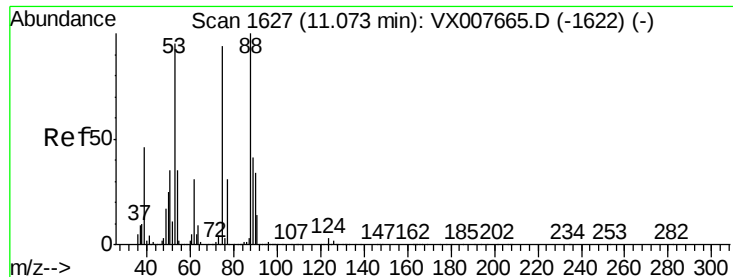
77 1.6 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.462 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007697.D

Acq: 26 Feb 2019 06:01

Instrument :

MSVOA_X

ClientSampleId :

M1-T0-UV(PRE)

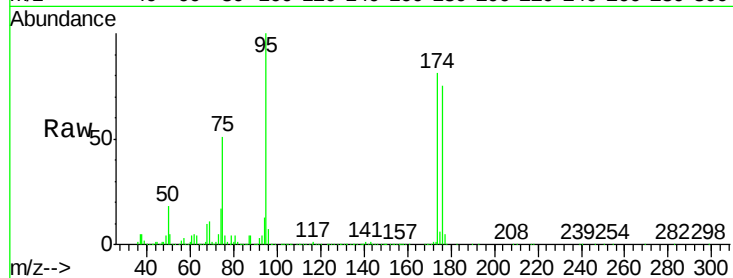
Tot Ion: 75 Resp: 121738

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.1 41.4 62.0#



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

