

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041319\
 Data File : VX008937.D
 Acq On : 13 Apr 2019 17:19
 Operator : JC/SP
 Sample : K2385-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 14 04:15:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	195979	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	315596	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	265546	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	110175	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	128731	45.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.06%	
35) Dibromofluoromethane	5.50	113	95338	47.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.50%	
50) Toluene-d8	8.71	98	388267	48.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.66%	
62) 4-Bromofluorobenzene	11.13	95	123261	43.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.52%	

Target Compounds

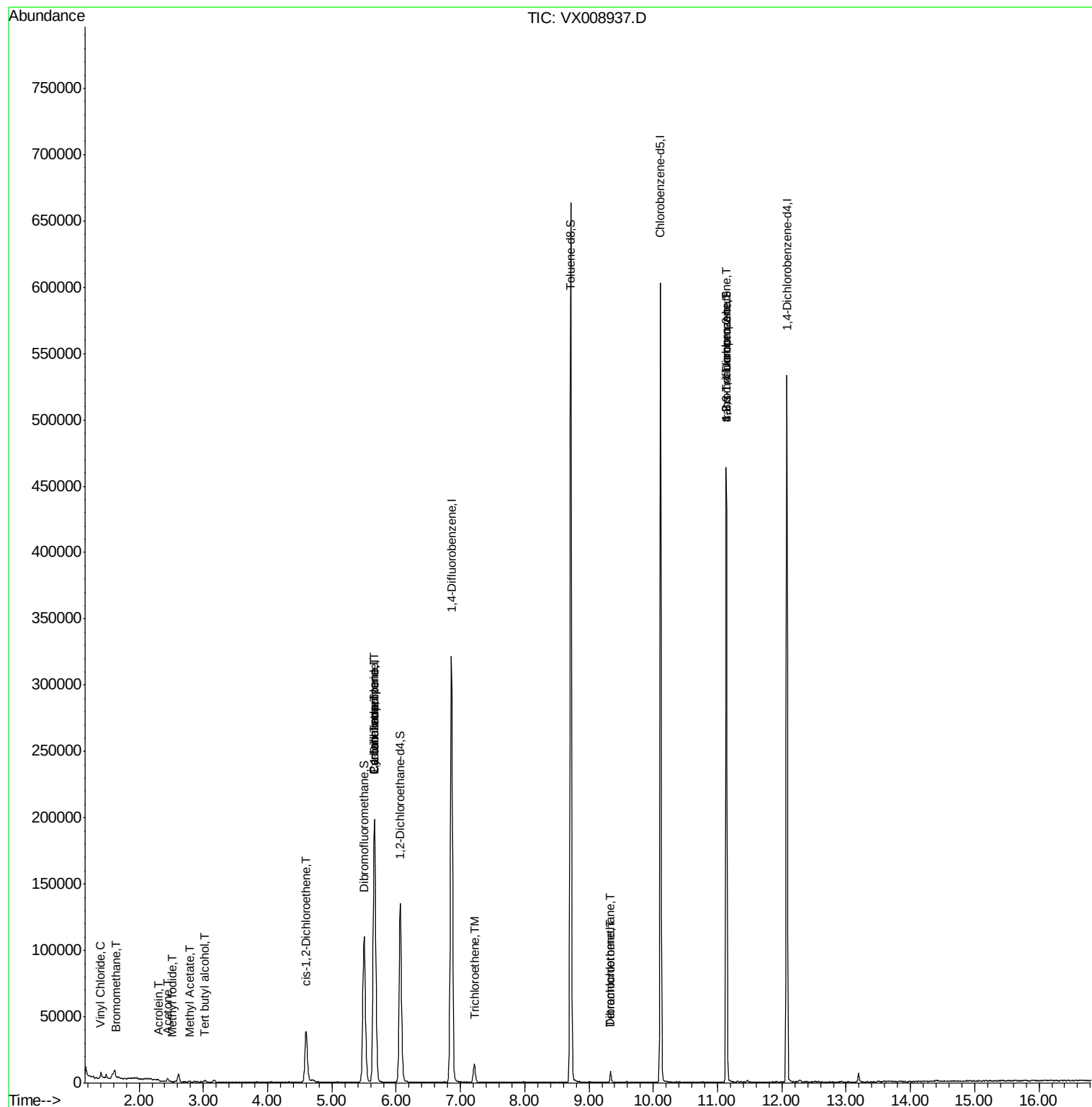
					Qvalue
3) Chloromethane	1.33	50	326	Below Cal	98
4) Vinyl Chloride	1.41	62	2585	0.848 ug/l	89
5) Bromomethane	1.65	94	112	1.957 ug/l	87
6) Chloroethane	1.71	64	61	Below Cal #	1
10) Methyl Iodide	2.52	142	24	4.014 ug/l #	42
11) Tert butyl alcohol	3.02	59	808	1.207 ug/l #	72
13) Acrolein	2.30	56	76	0.229 ug/l #	1
16) Acetone	2.45	43	2709	1.645 ug/l	99
17) Carbon Disulfide	2.57	76	698	Below Cal #	78
18) Methyl Acetate	2.78	43	1121	0.281 ug/l	93
27) cis-1,2-Dichloroethene	4.60	96	24724	8.775 ug/l	88
28) Bromochloromethane	4.87	49	29	Below Cal #	22
31) Cyclohexane	5.66	56	4470	0.905 ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15532	4.502 ug/l #	50
38) Carbon Tetrachloride	5.67	117	18554	6.498 ug/l #	17
44) Trichloroethene	7.22	130	5354	2.237 ug/l	82
60) Dibromochloromethane	9.34	129	1306	0.570 ug/l #	11
64) Tetrachloroethene	9.34	164	1393	0.708 ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	64128	21.188 ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64128	58.406 ug/l #	9

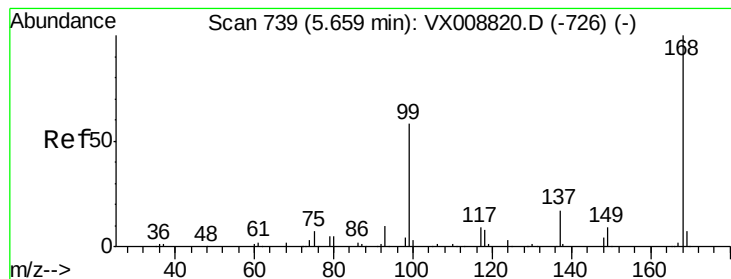
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Apr 04 04:47:41 2019
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: VX008937.D

Acq: 13 Apr 2019 17:19

Instrument :

MSVOA_X

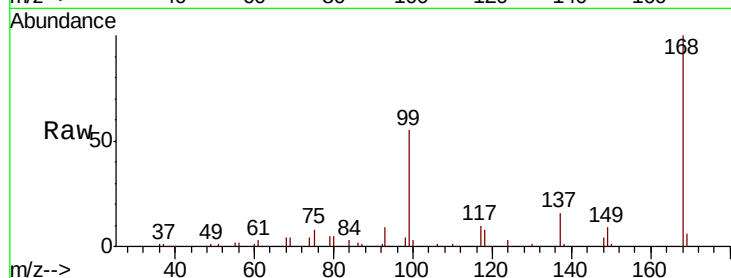
ClientSampleId :

Tot Ion:168 Resp: 195979

Ion Ratio Lower Upper

168 100

99 55.0 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

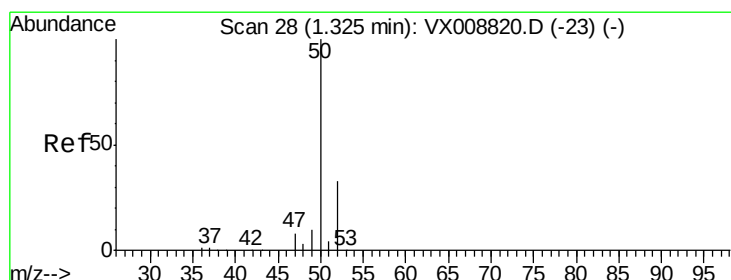
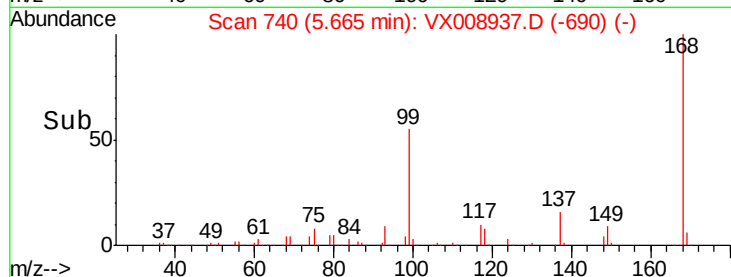
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX008937.D

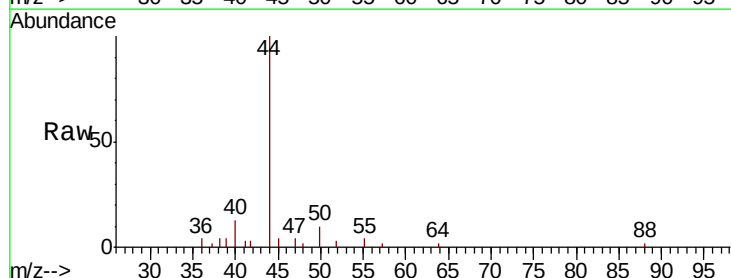
Acq: 13 Apr 2019 17:19

Tgt Ion: 50 Resp: 326

Ion Ratio Lower Upper

50 100

52 33.5 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

300

250

200

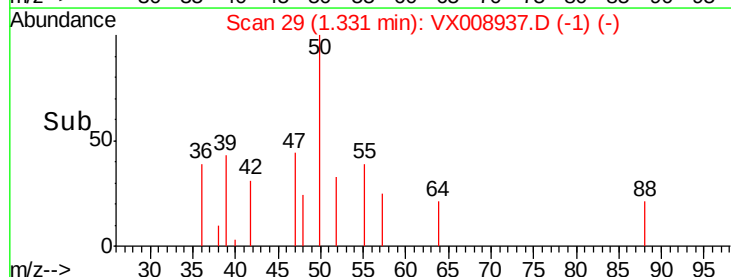
150

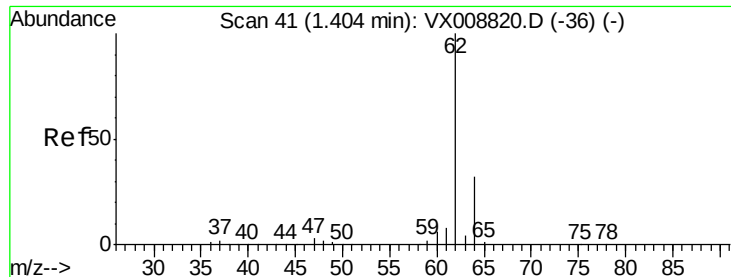
100

50

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 0.848 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX008937.D

Acq: 13 Apr 2019 17:19

Instrument :

MSVOA_X

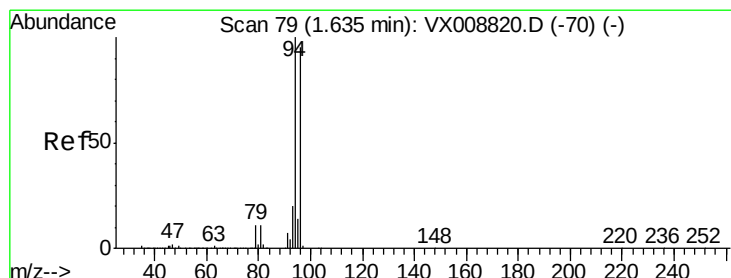
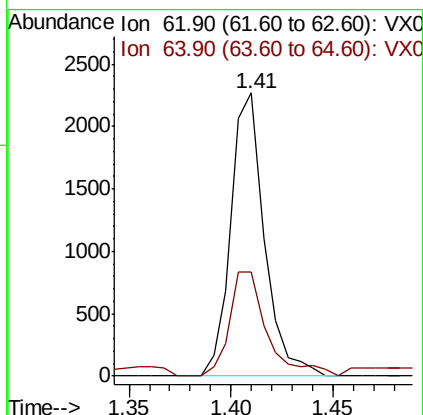
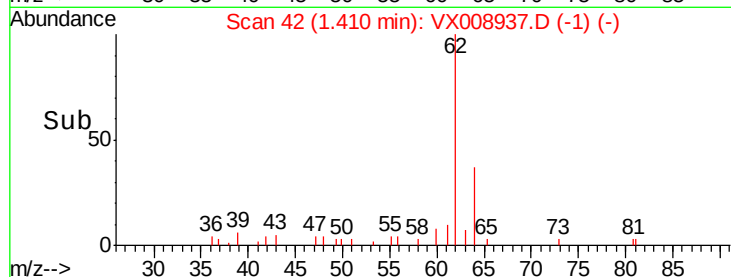
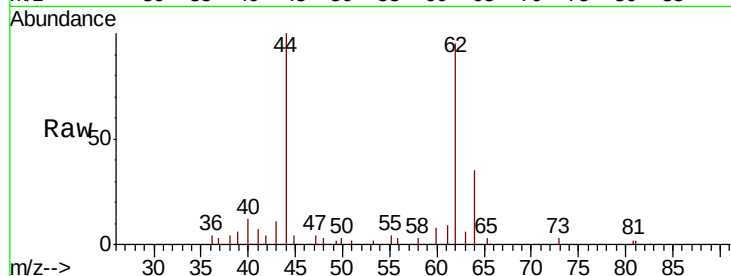
ClientSampled :

Tot Ion: 62 Resp: 2585

Ion Ratio Lower Upper

62 100

64 36.8 24.7 37.1



#5

Bromomethane

Concen: 1.957 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008937.D

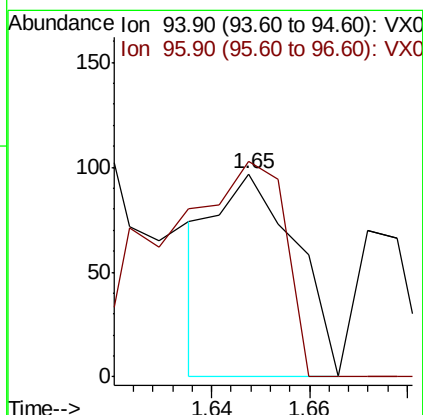
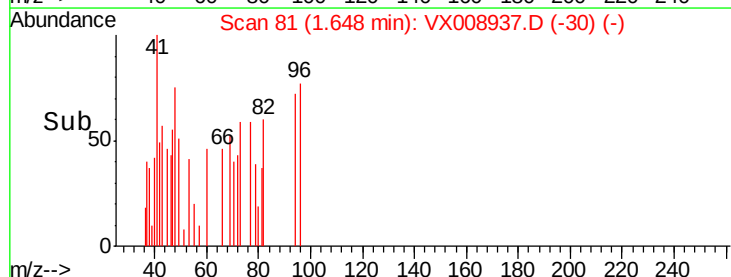
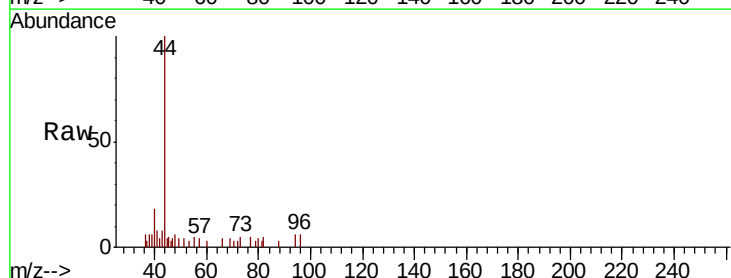
Acq: 13 Apr 2019 17:19

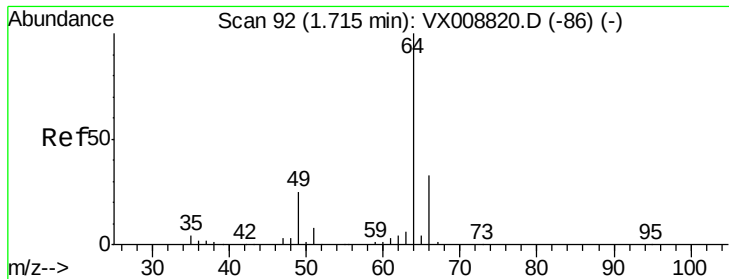
Tgt Ion: 94 Resp: 112

Ion Ratio Lower Upper

94 100

96 106.2 75.2 112.8





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX008937.D

Acq: 13 Apr 2019 17:19

Instrument :

MSVOA_X

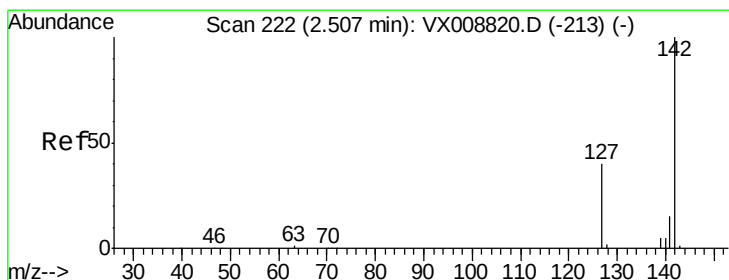
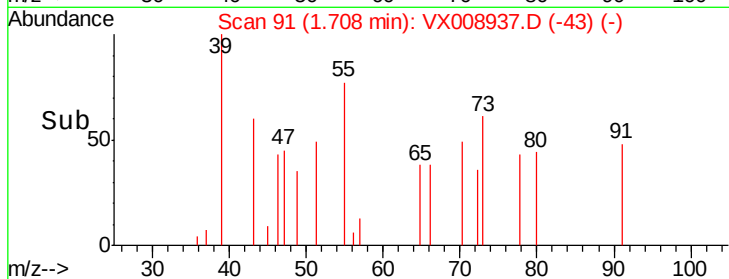
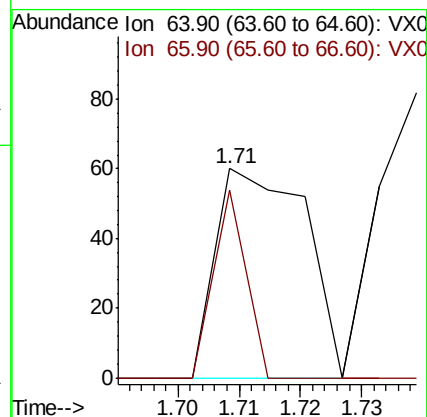
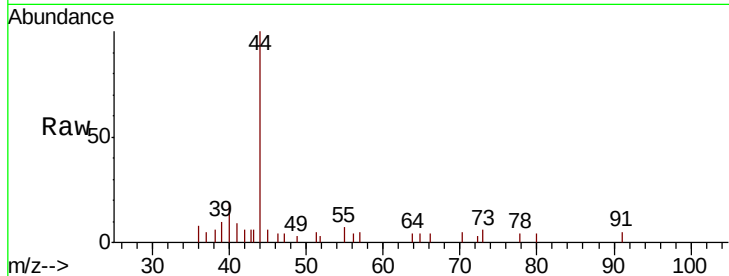
ClientSampleId :

Tot Ion: 64 Resp: 61

Ion Ratio Lower Upper

64 100

66 90.0 25.4 38.0#



#10

Methyl Iodide

Concen: 4.014 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX008937.D

Acq: 13 Apr 2019 17:19

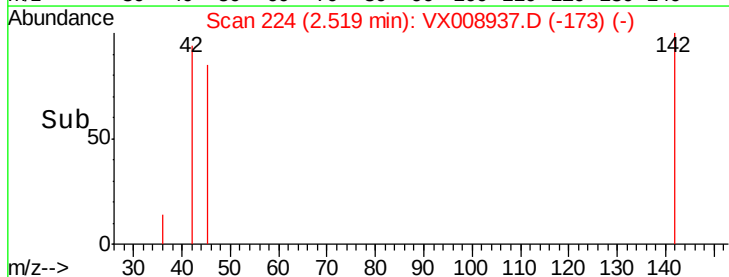
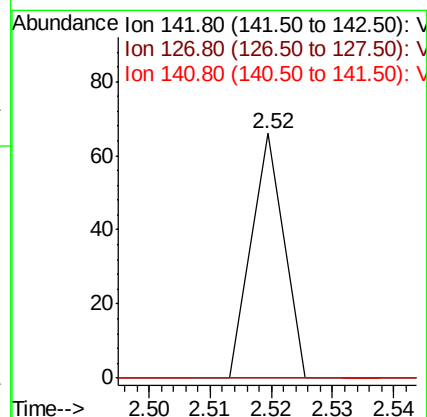
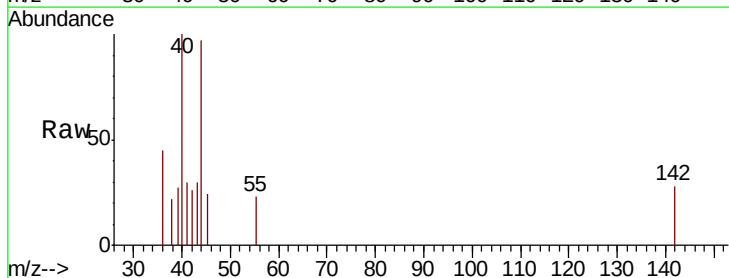
Tgt Ion: 142 Resp: 24

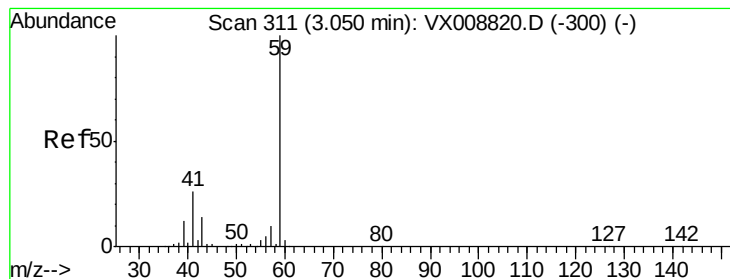
Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.6#

141 0.0 11.4 17.2#



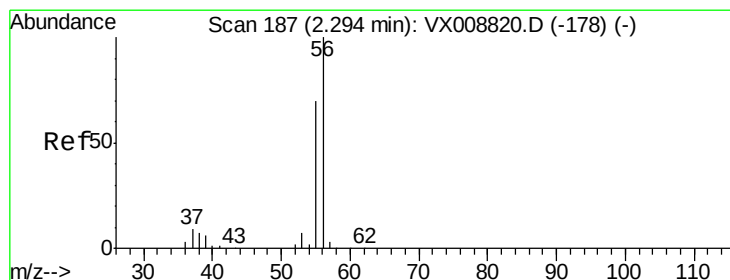
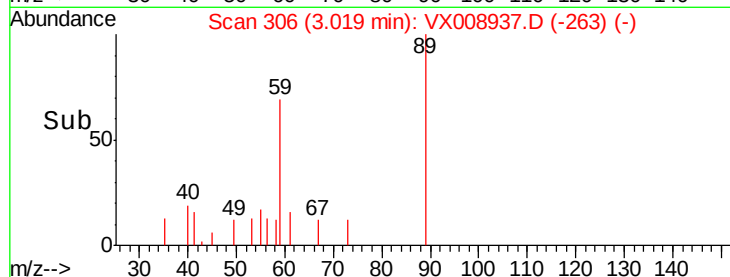
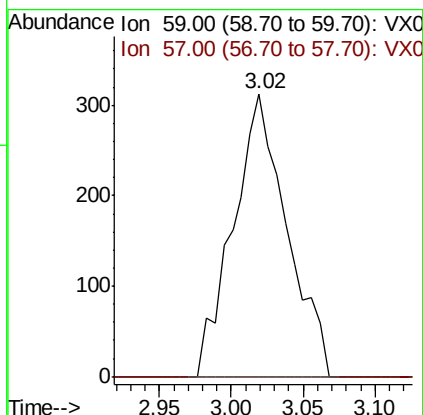
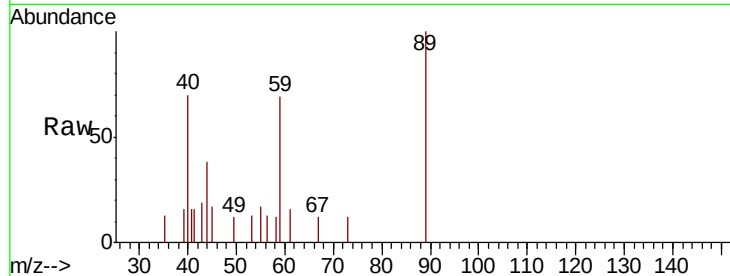


#11

Tert butyl alcohol
 Concen: 1.207 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.04 min
 Lab File: VX008937.D
 Acq: 13 Apr 2019 17:19

Instrument :
 MSVOA_X
 ClientSampleId :

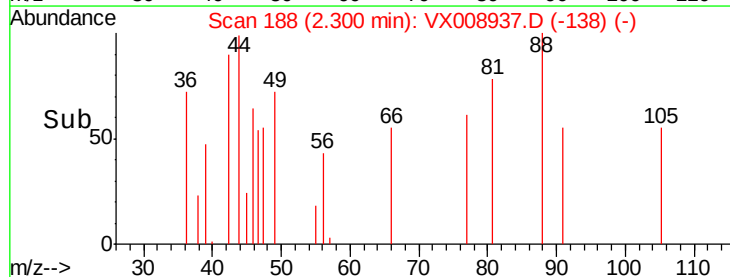
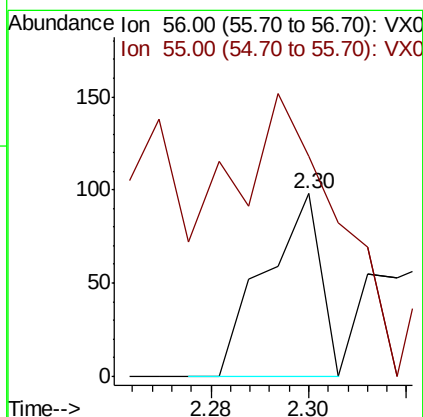
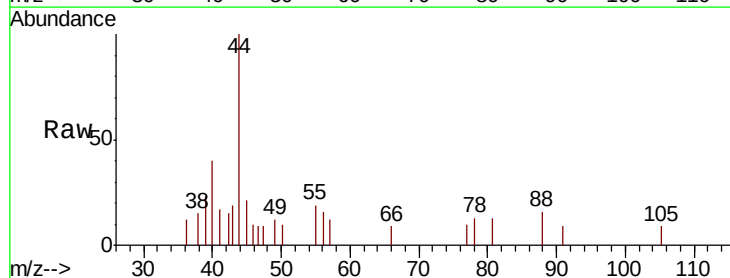
Tot Ion: 59 Resp: 808
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

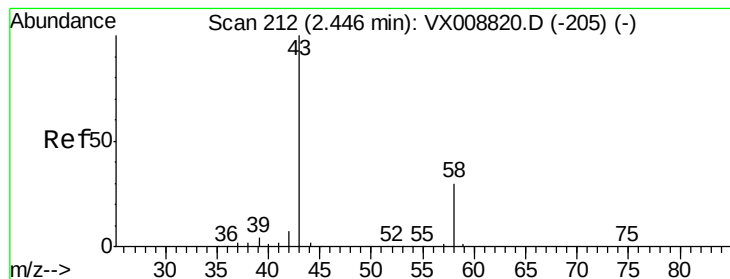


#13

Acrolein
 Concen: 0.229 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX008937.D
 Acq: 13 Apr 2019 17:19

Tgt Ion: 56 Resp: 76
 Ion Ratio Lower Upper
 56 100
 55 202.6 58.0 87.0#





#16

Acetone

Concen: 1.645 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008937.D

Acq: 13 Apr 2019 17:19

Instrument :

MSVOA_X

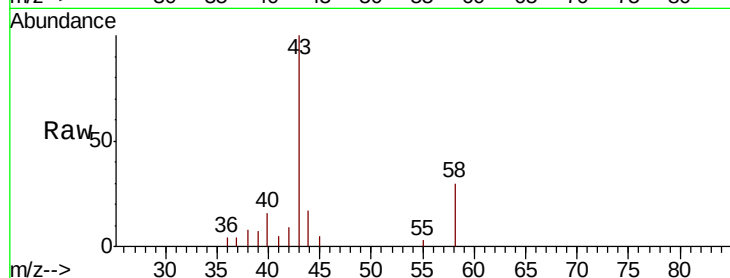
ClientSampleId :

Tot Ion: 43 Resp: 2709

Ion Ratio Lower Upper

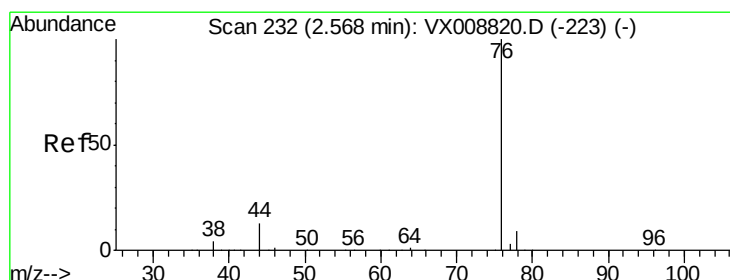
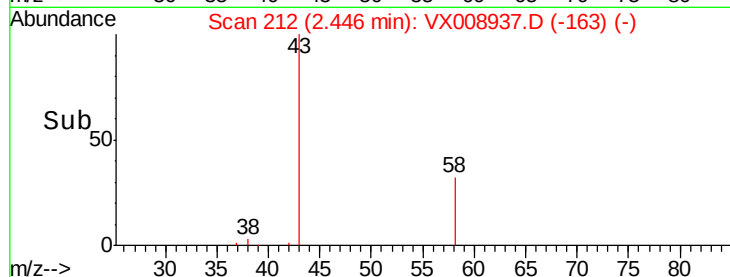
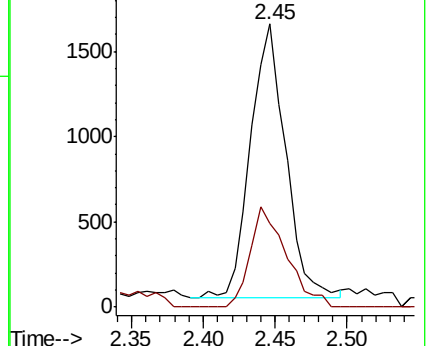
43 100

58 30.7 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008937.D

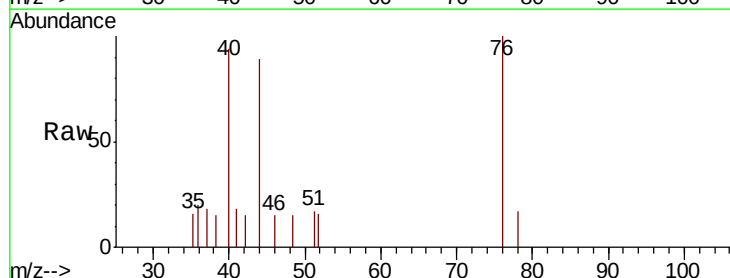
Acq: 13 Apr 2019 17:19

Tgt Ion: 76 Resp: 698

Ion Ratio Lower Upper

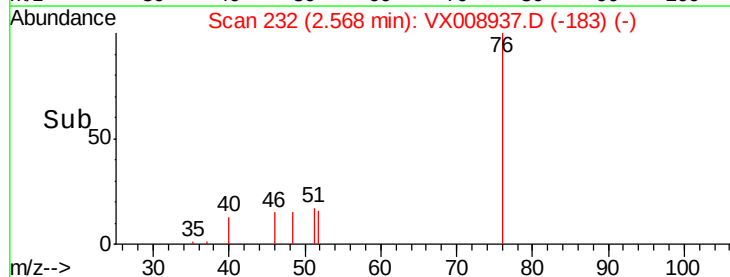
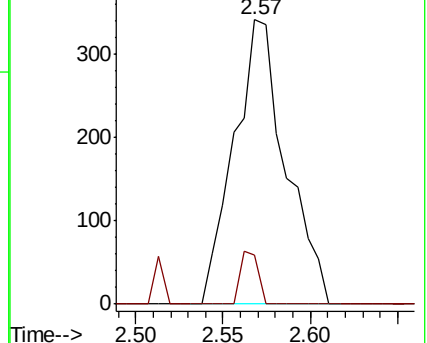
76 100

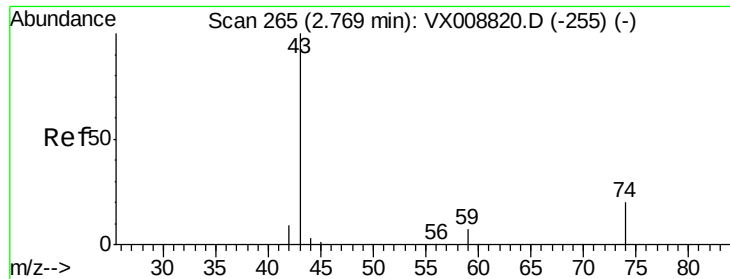
78 17.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

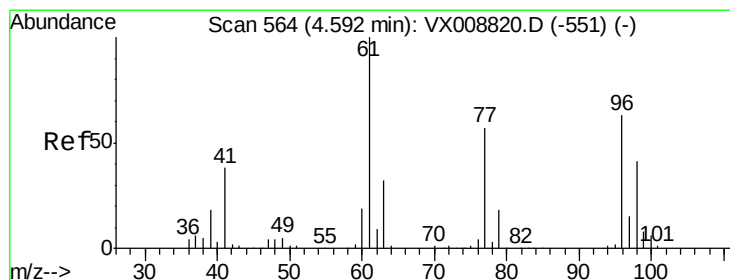
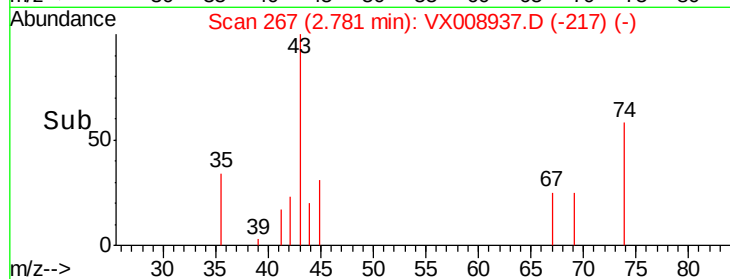
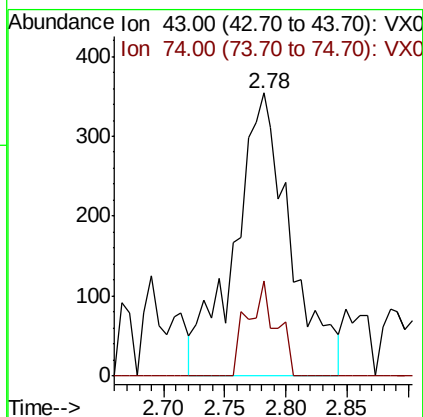
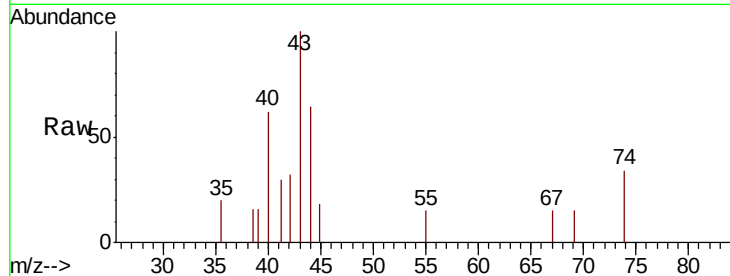




#18
Methvl Acetate
Concen: 0.281 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX008937.D
Acq: 13 Apr 2019 17:19

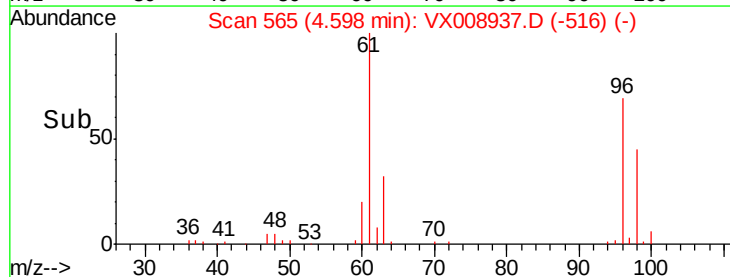
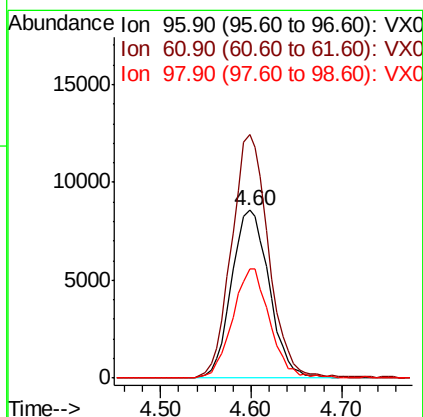
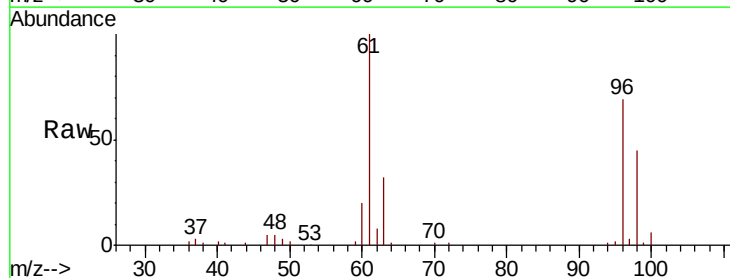
Instrument :
MSVOA_X
ClientSampled :

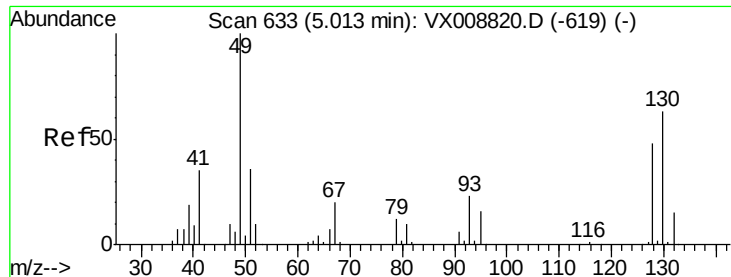
Tot Ion: 43 Resp: 1121
Ion Ratio Lower Upper
43 100
74 17.3 16.5 24.7



#27
cis-1,2-Dichloroethene
Concen: 8.775 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX008937.D
Acq: 13 Apr 2019 17:19

Tgt Ion: 96 Resp: 24724
Ion Ratio Lower Upper
96 100
61 141.8 0.0 327.6
98 64.1 0.0 128.6





#28

Bromochloromethane

Concen: Below Cal

RT: 4.87 min Scan# 610

Delta R.T. -0.15 min

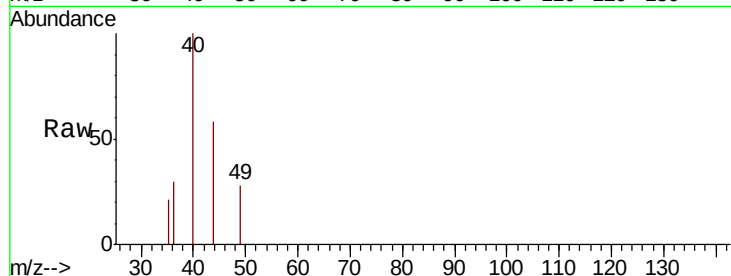
Lab File: VX008937.D

Acq: 13 Apr 2019 17:19

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 29

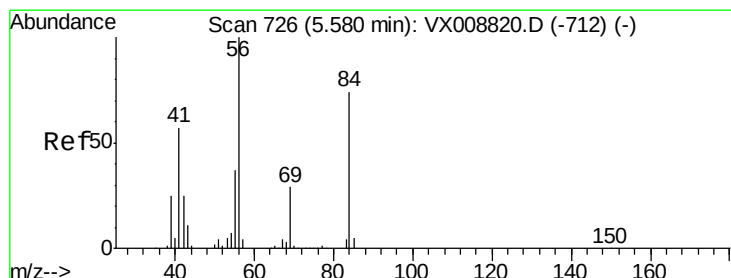
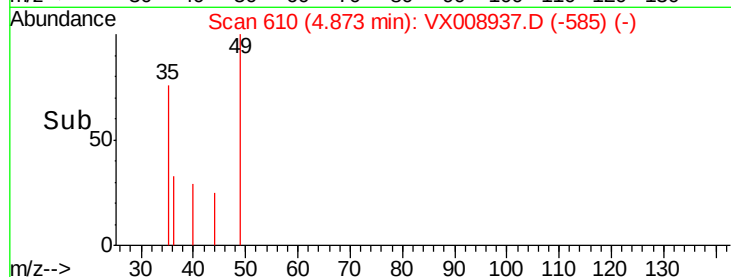
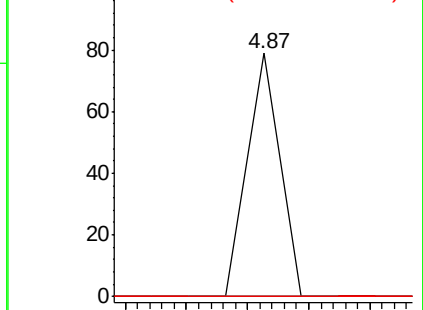
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	49.3	73.9#



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



#31

Cyclohexane

Concen: 0.905 ug/l

RT: 5.66 min Scan# 739

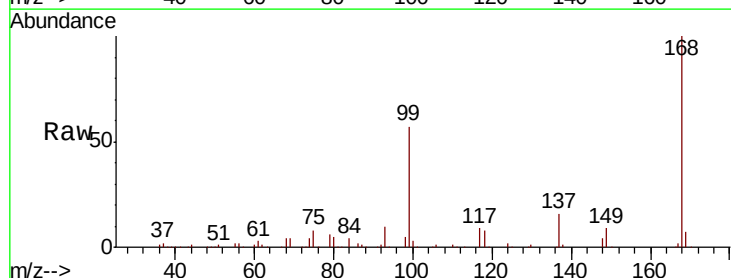
Delta R.T. 0.08 min

Lab File: VX008937.D

Acq: 13 Apr 2019 17:19

Tgt Ion: 56 Resp: 4470

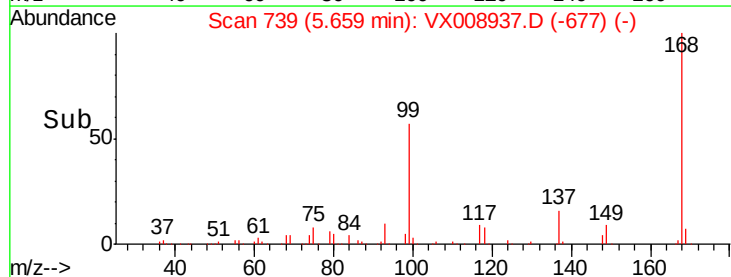
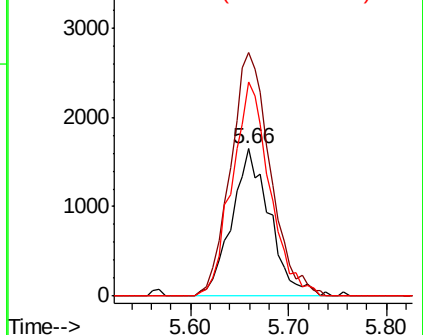
Ion	Ratio	Lower	Upper
56	100		
69	165.0	22.6	33.8#
84	144.9	59.3	88.9#

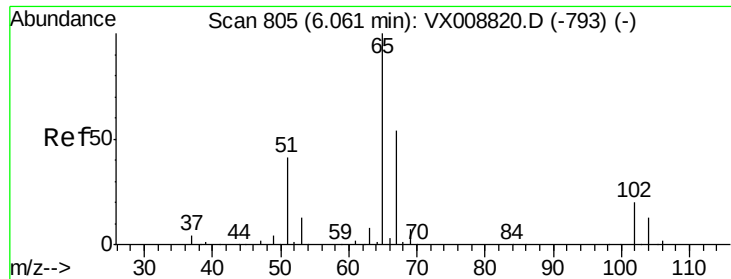


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

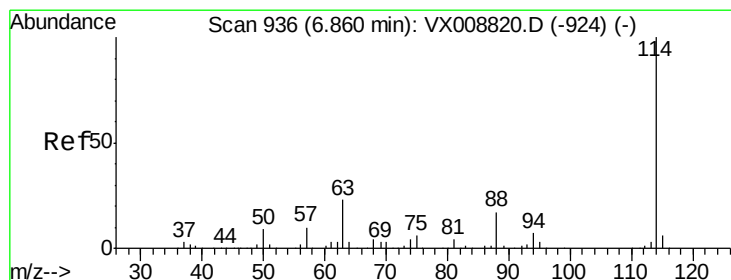
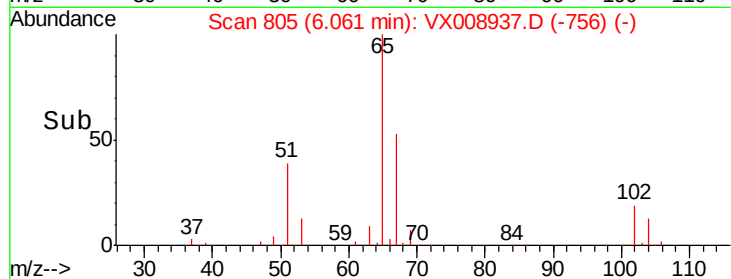
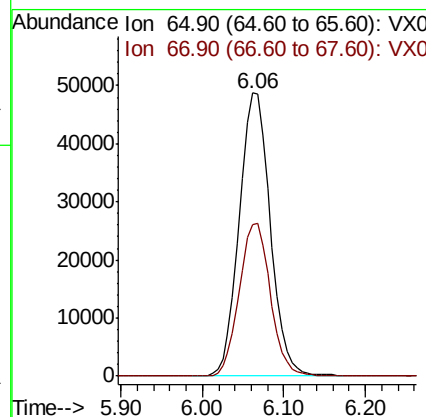
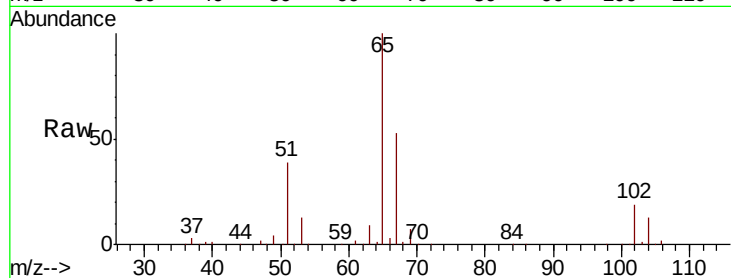




#33
 1,2-Dichloroethane-d4
 Concen: 45.035 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008937.D
 Acq: 13 Apr 2019 17:19

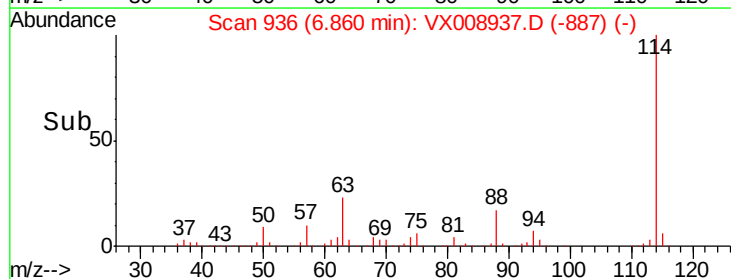
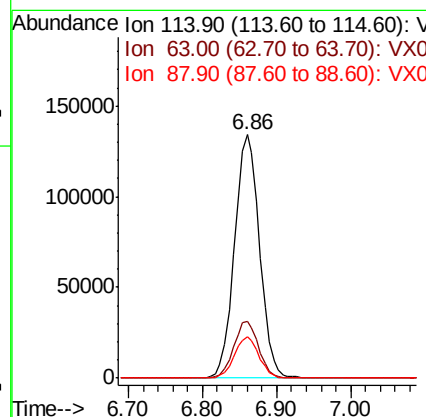
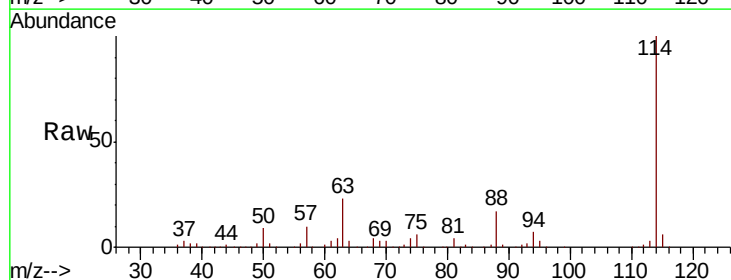
Instrument :
 MSVOA_X
 ClientSampleId :

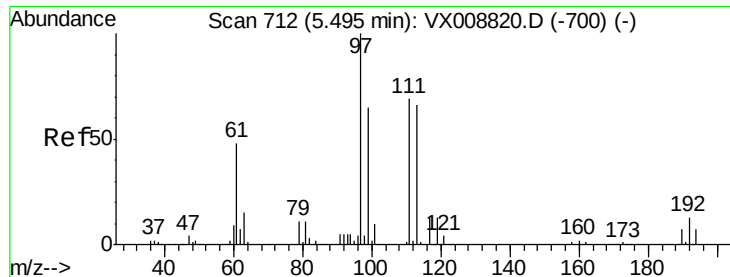
Tot Ion: 65 Resp: 128731
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008937.D
 Acq: 13 Apr 2019 17:19

Tgt Ion: 114 Resp: 315596
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 47.2
 88 16.8 0.0 34.0

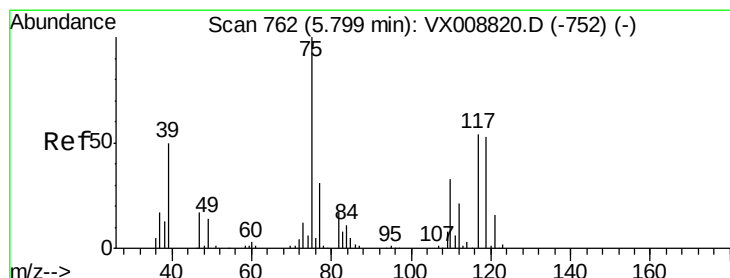
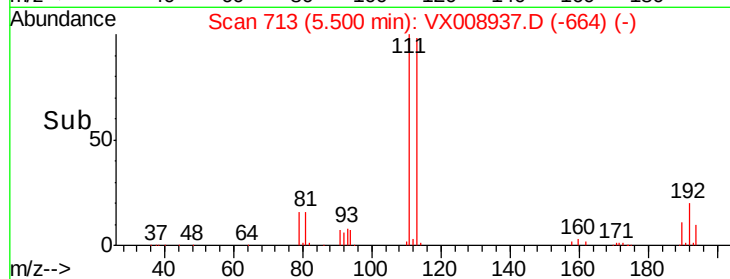
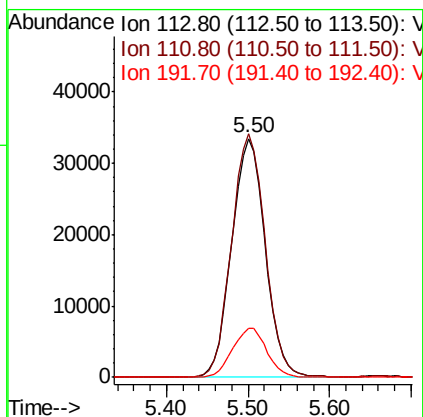
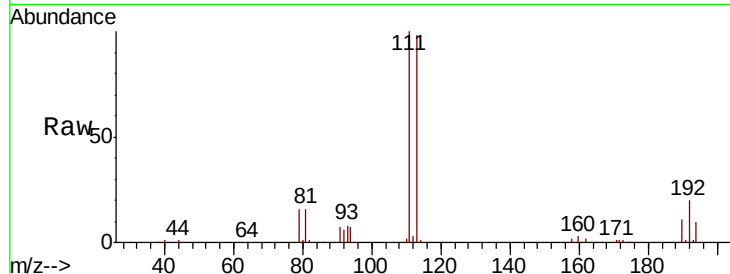




#35
 Dibromofluoromethane
 Concen: 47.248 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008937.D
 Acq: 13 Apr 2019 17:19

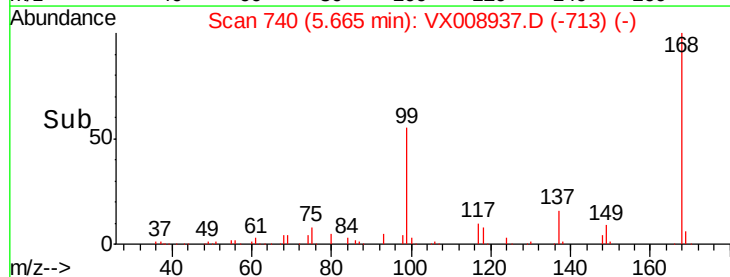
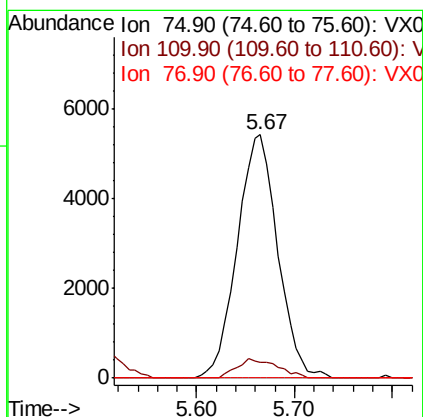
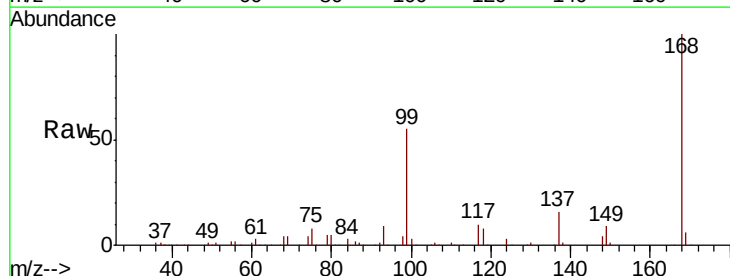
Instrument :
 MSVOA_X
 ClientSampled :

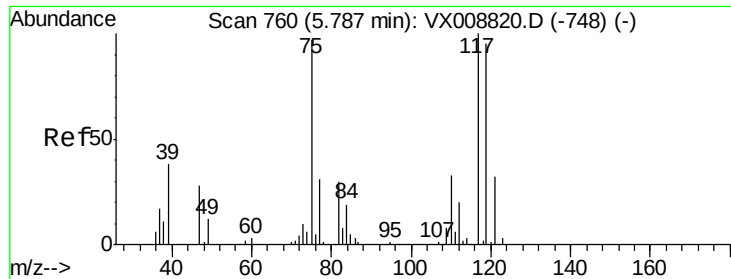
Tot Ion:113 Resp: 95338
 Ion Ratio Lower Upper
 113 100
 111 102.2 83.4 125.2
 192 21.0 16.1 24.1



#36
 1,1-Dichloropropene
 Concen: 4.502 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008937.D
 Acq: 13 Apr 2019 17:19

Tgt Ion: 75 Resp: 15532
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.4 49.2#
 77 0.0 24.7 37.1#

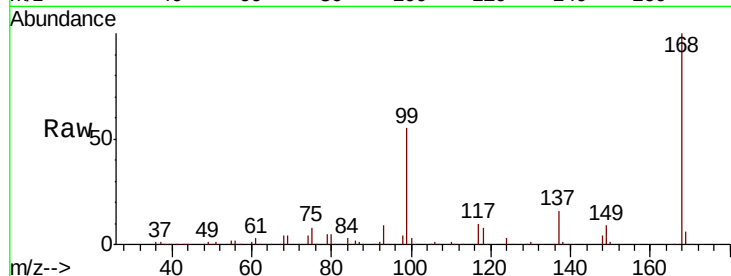




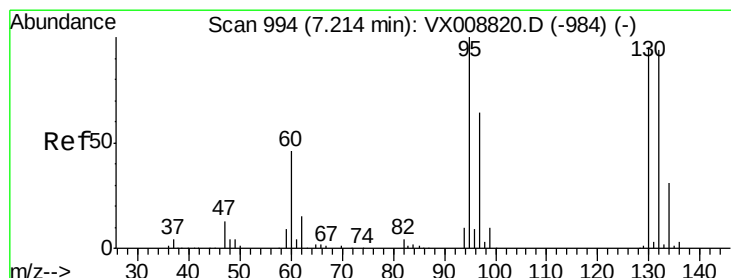
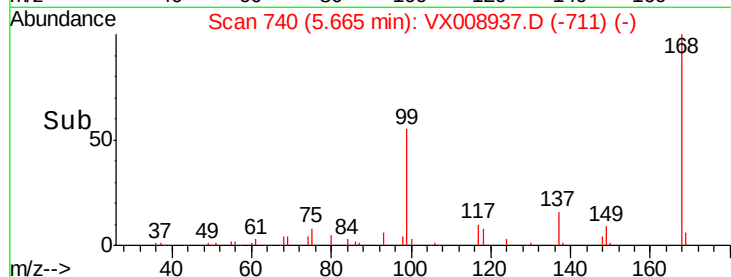
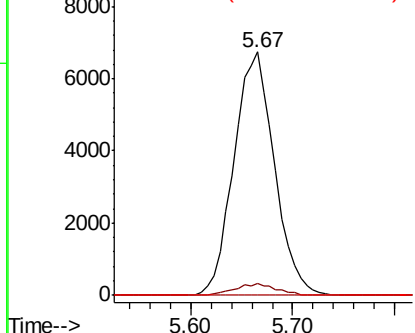
#38
Carbon Tetrachloride
Concen: 6.498 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX008937.D
Acq: 13 Apr 2019 17:19

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 18554
Ion Ratio Lower Upper
117 100
119 4.9 75.0 112.6#
121 0.0 24.3 36.5#

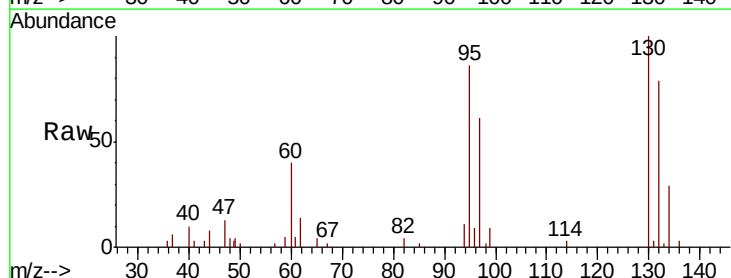


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

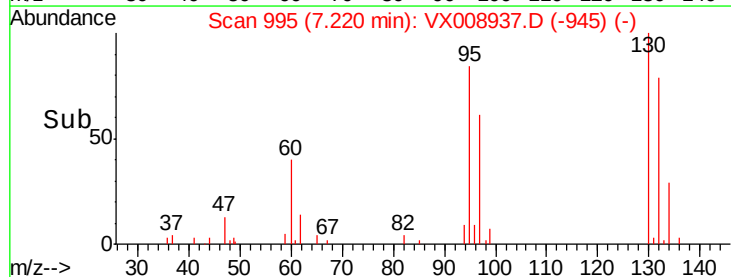
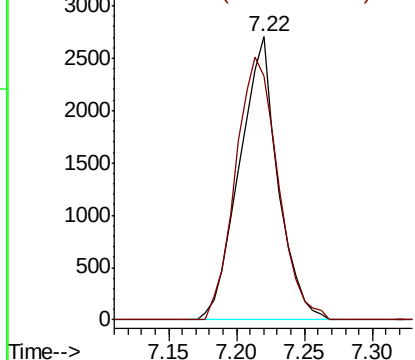


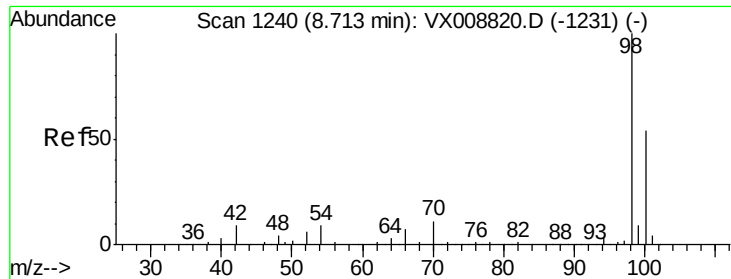
#44
Trichloroethene
Concen: 2.237 ug/l
RT: 7.22 min Scan# 995
Delta R.T. 0.01 min
Lab File: VX008937.D
Acq: 13 Apr 2019 17:19

Tgt Ion:130 Resp: 5354
Ion Ratio Lower Upper
130 100
95 86.1 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0

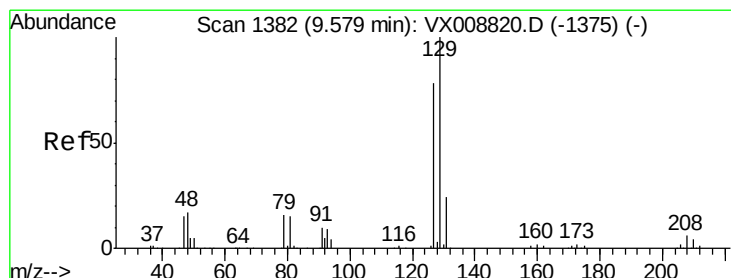
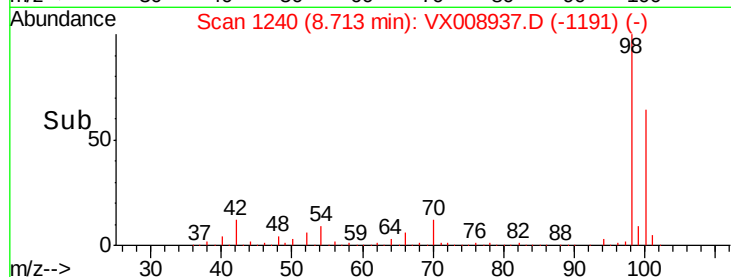
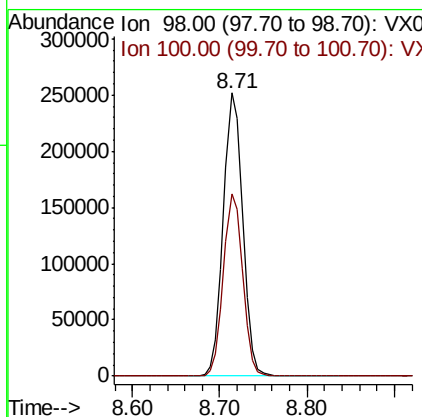
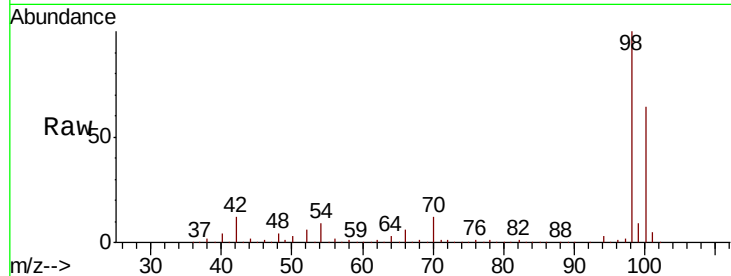




#50
Toluene-d8
Concen: 48.326 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008937.D
Acq: 13 Apr 2019 17:19

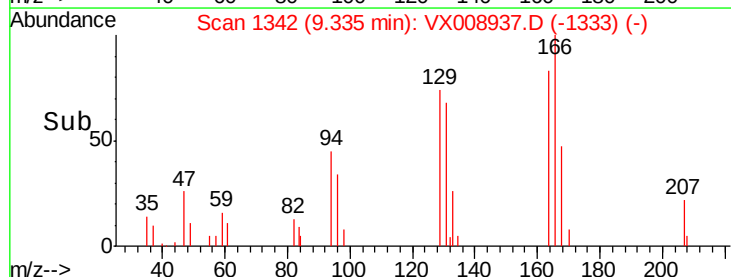
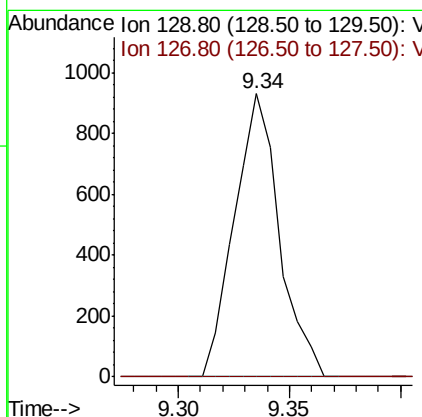
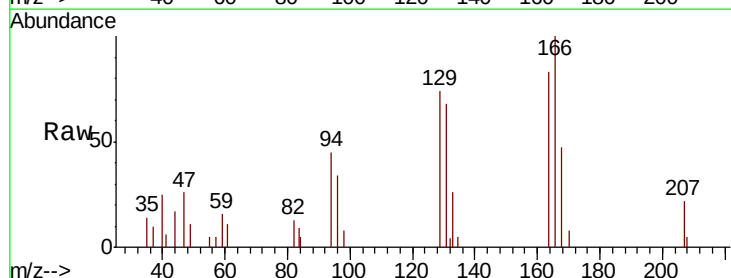
Instrument :
MSVOA_X
ClientSampleId :

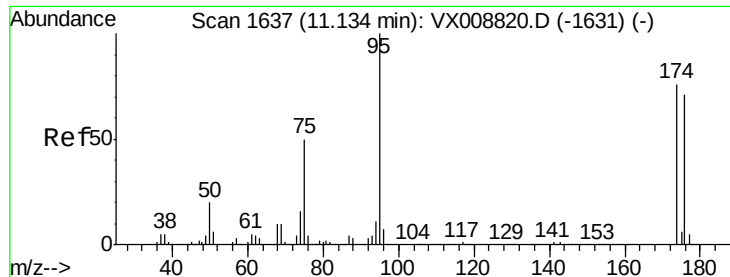
Tot Ion: 98 Resp: 388267
Ion Ratio Lower Upper
98 100
100 63.9 51.4 77.0



#60
Dibromochloromethane
Concen: 0.570 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX008937.D
Acq: 13 Apr 2019 17:19

Tgt Ion:129 Resp: 1306
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 43.263 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008937.D

Acq: 13 Apr 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

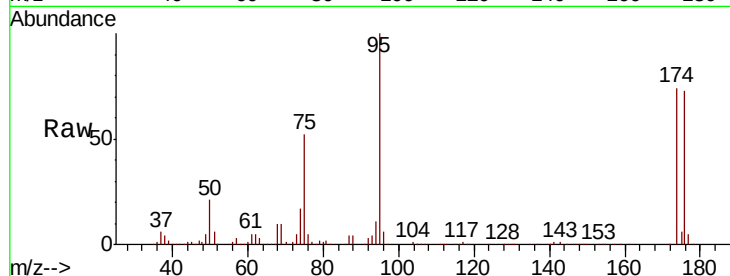
Tot Ion: 95 Resp: 123261

Ion Ratio Lower Upper

95 100

174 79.3 0.0 151.8

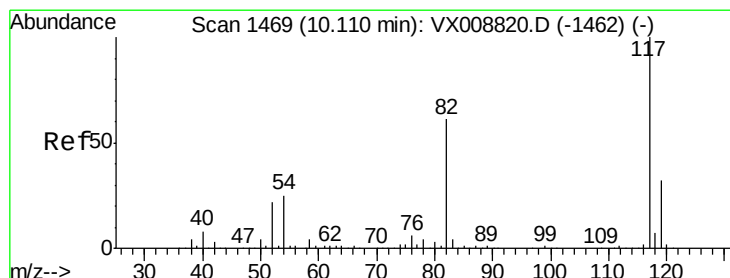
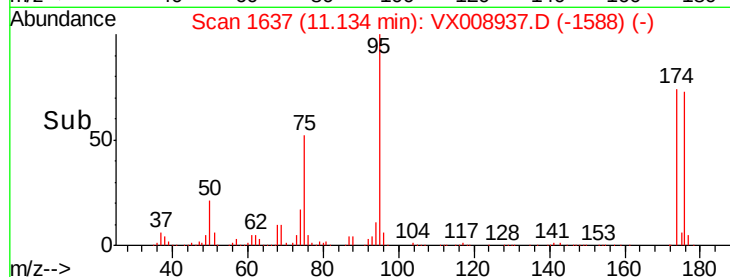
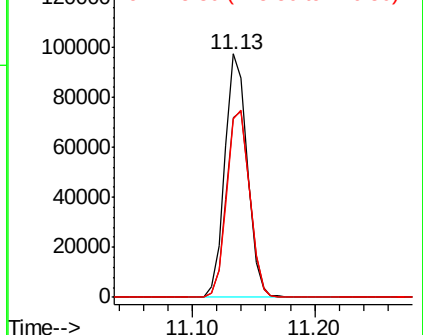
176 78.4 0.0 145.8



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: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008937.D

Acq: 13 Apr 2019 17:19

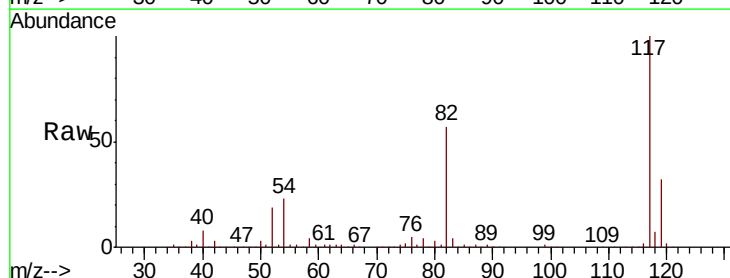
Tgt Ion: 117 Resp: 265546

Ion Ratio Lower Upper

117 100

82 57.4 49.6 74.4

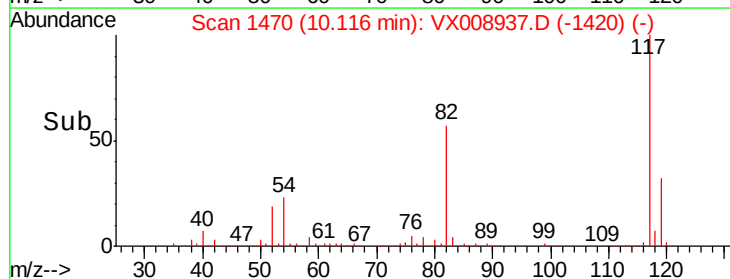
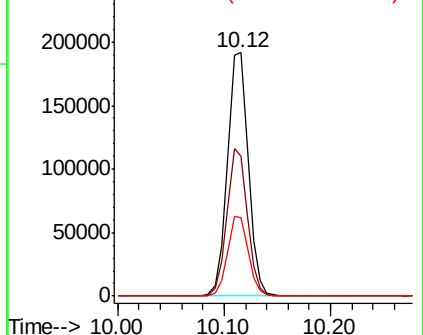
119 32.5 25.0 37.4

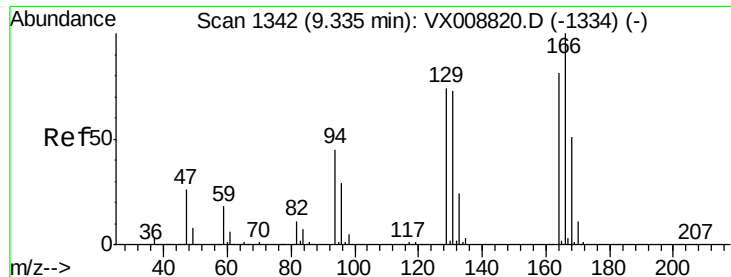


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

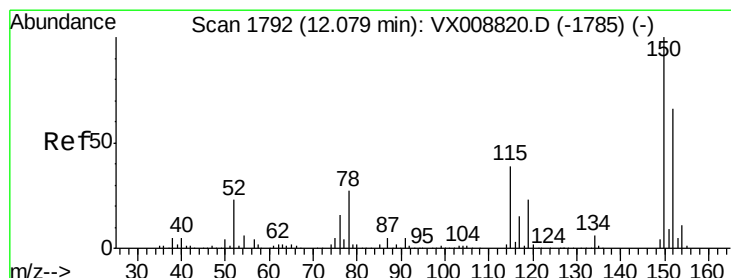
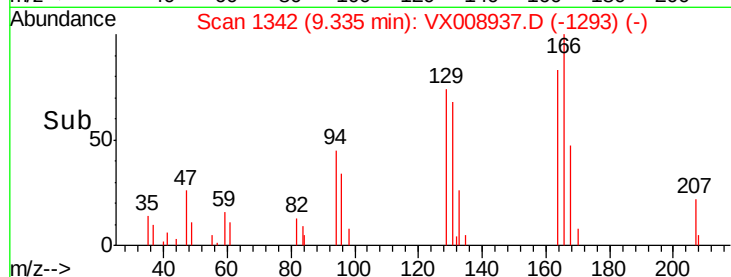
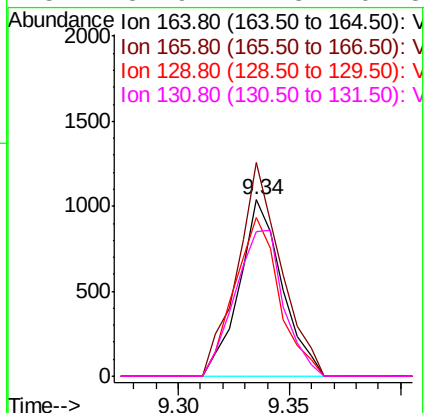
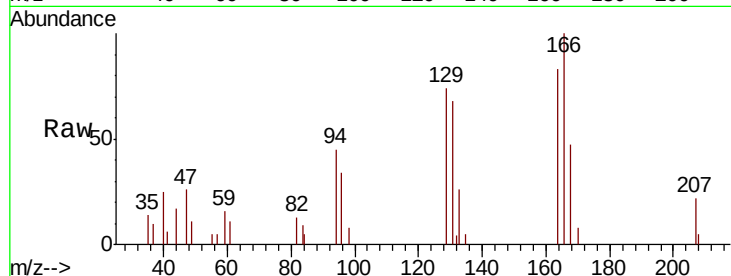




#64
Tetrachloroethene
Concen: 0.708 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008937.D
Acq: 13 Apr 2019 17:19

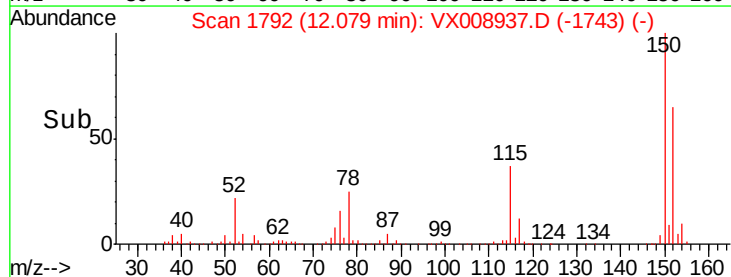
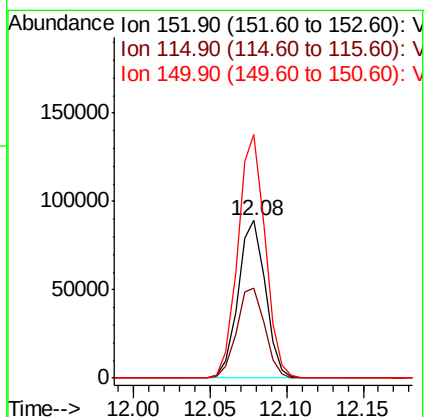
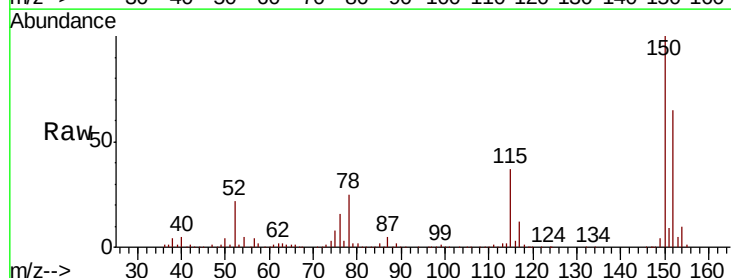
Instrument :
MSVOA_X
ClientSampleId :

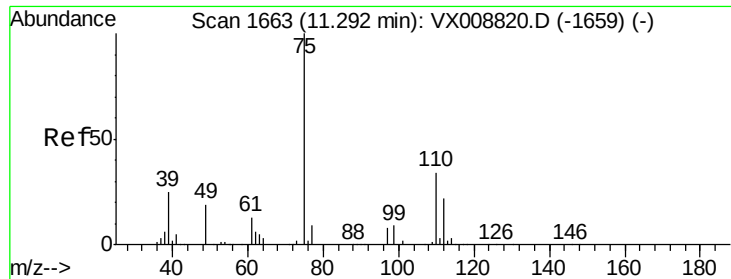
Tot Ion:164 Resp: 1393
Ion Ratio Lower Upper
164 100
166 121.1 101.0 151.6
129 89.7 75.8 113.8
131 81.9 71.8 107.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008937.D
Acq: 13 Apr 2019 17:19

Tgt Ion:152 Resp: 110175
Ion Ratio Lower Upper
152 100
115 59.0 43.5 130.5
150 154.2 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 21.188 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008937.D

Acq: 13 Apr 2019 17:19

Instrument :

MSVOA_X

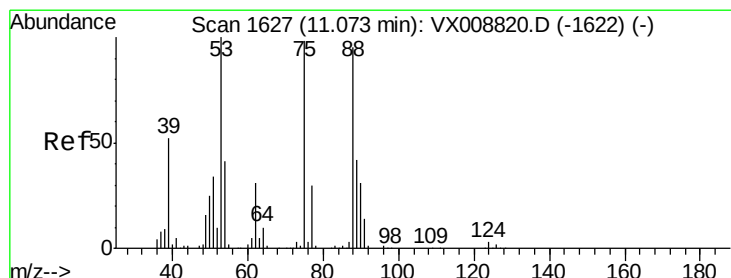
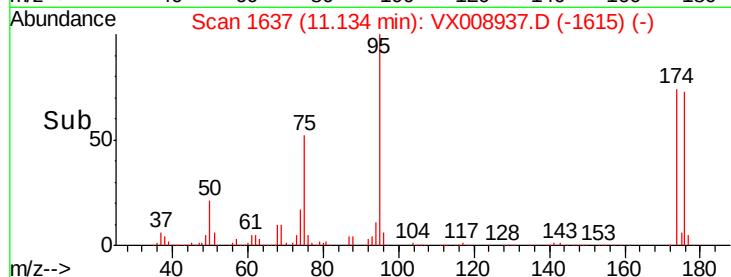
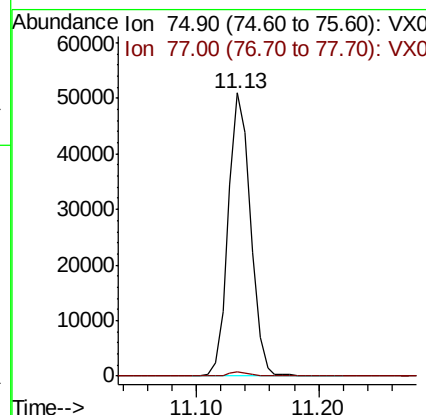
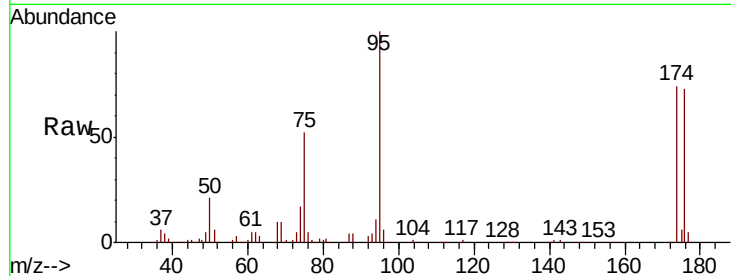
ClientSampleId :

Tot Ion: 75 Resp: 64128

Ion Ratio Lower Upper

75 100

77 1.4 22.3 66.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.406 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008937.D

Acq: 13 Apr 2019 17:19

Tgt Ion: 75 Resp: 64128

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

89 0.0 35.6 53.4#

