

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050919\
 Data File : VX009465.D
 Acq On : 10 May 2019 06:32
 Operator : JC/SP
 Sample : K2782-20
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 10 07:14:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

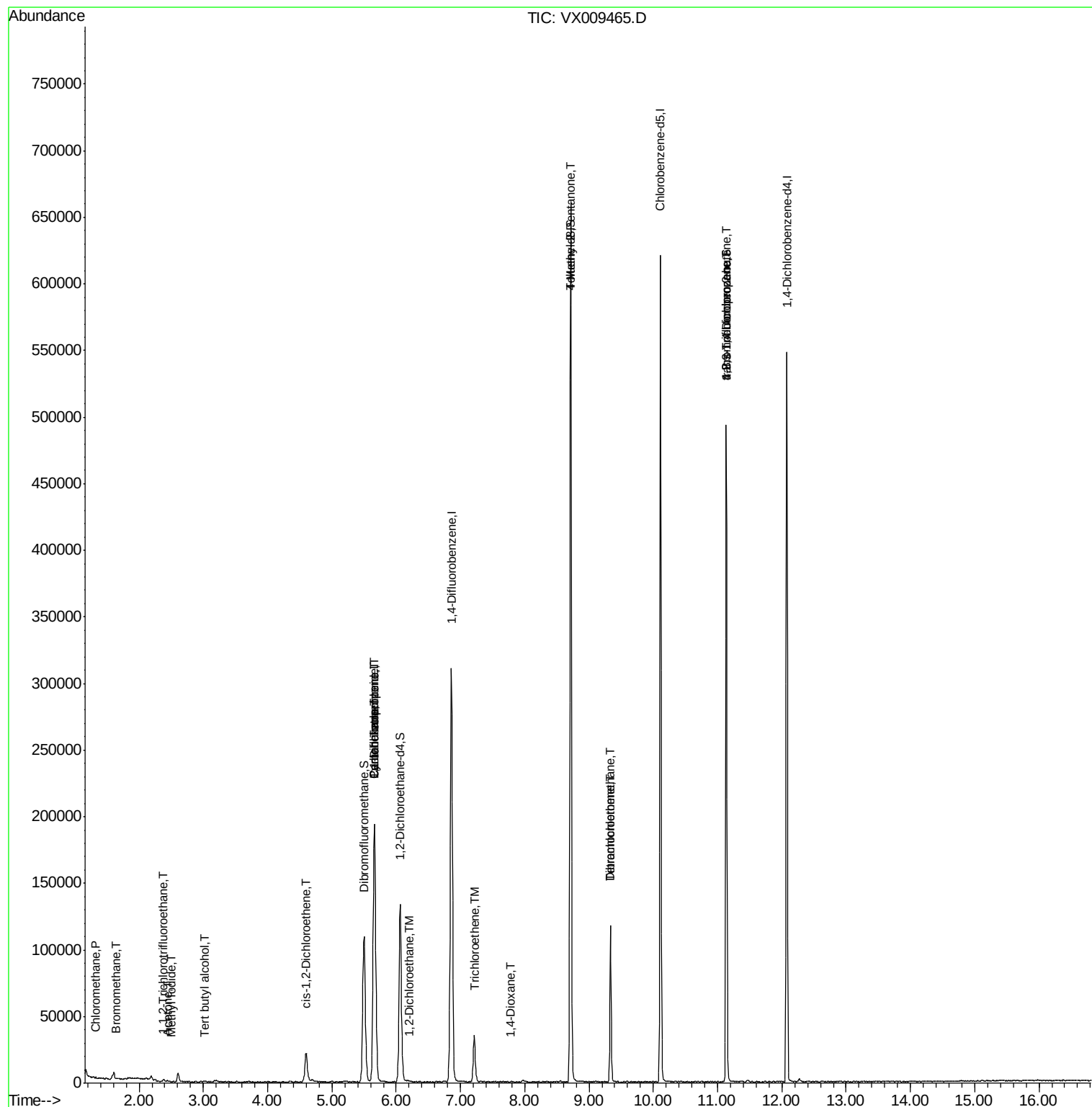
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	192222	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	306376	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	271789	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	116425	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	126538	48.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.44%	
35) Dibromofluoromethane	5.50	113	94227	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	
50) Toluene-d8	8.71	98	386807	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	
62) 4-Bromofluorobenzene	11.13	95	127033	44.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.92%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	743	0.307	ug/l	97
5) Bromomethane	1.64	94	322	0.227	ug/l #	20
9) 1,1,2-Trichlorotrifluoroet	2.38	101	474	0.263	ug/l #	80
10) Methyl Iodide	2.51	142	81	4.629	ug/l #	42
11) Tert butyl alcohol	3.02	59	668	1.100	ug/l #	91
16) Acetone	2.44	43	1144	0.812	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	13372	5.727	ug/l	91
28) Bromochloromethane	5.00	49	46	Below Cal	#	20
31) Cyclohexane	5.67	56	4201	1.083	ug/l #	13
36) 1,1-Dichloropropene	5.66	75	14743	5.178	ug/l #	51
38) Carbon Tetrachloride	5.66	117	17848	6.899	ug/l #	16
42) 1,2-Dichloroethane	6.20	62	791	0.250	ug/l #	75
44) Trichloroethene	7.21	130	13030	6.117	ug/l	95
49) 1,4-Dioxane	7.79	88	20	0.313	ug/l #	1
51) 4-Methyl-2-Pentanone	8.71	43	2059	0.496	ug/l #	1
60) Dibromochloromethane	9.34	129	21125	9.898	ug/l #	11
64) Tetrachloroethene	9.34	164	22457	12.045	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	64735	23.970	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64735	61.331	ug/l #	10

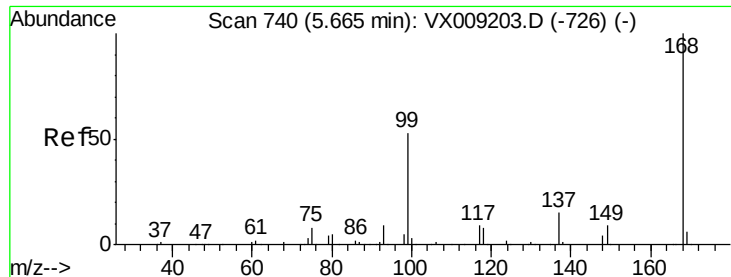
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009465.D

Acq: 10 May 2019 06:32

Instrument :

MSVOA_X

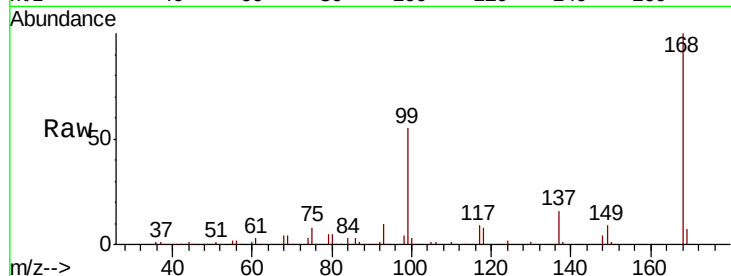
ClientSampled :

Tot Ion:168 Resp: 192222

Ion Ratio Lower Upper

168 100

99 54.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

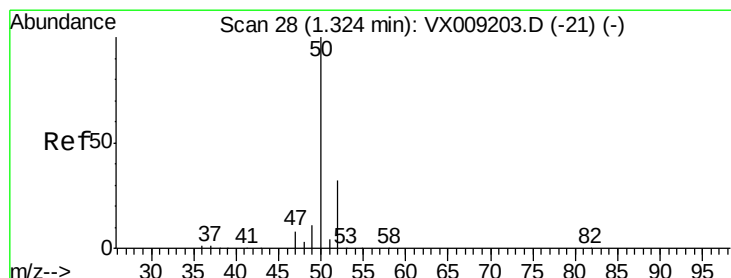
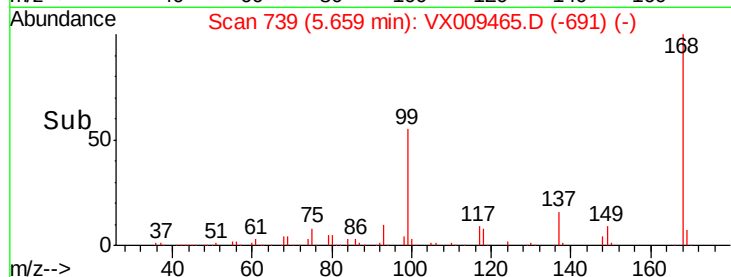
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.307 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009465.D

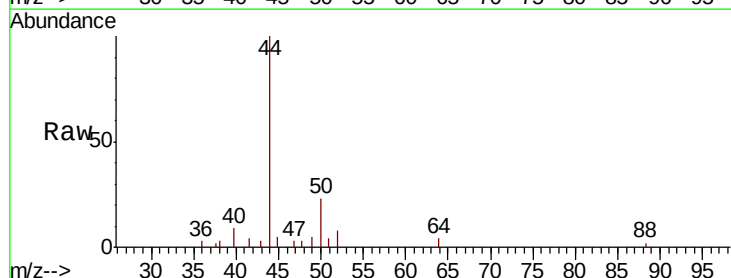
Acq: 10 May 2019 06:32

Tgt Ion: 50 Resp: 743

Ion Ratio Lower Upper

50 100

52 34.2 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

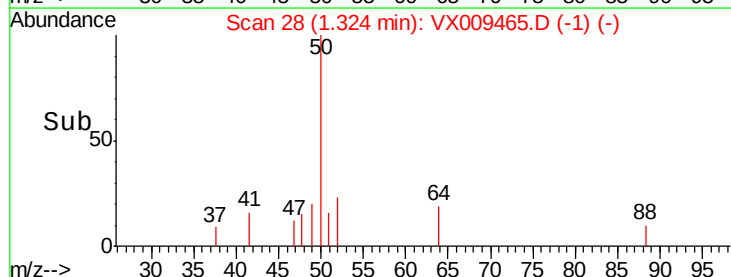
300

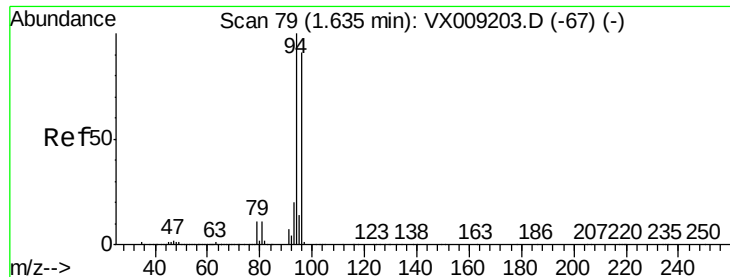
200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.227 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009465.D

Acq: 10 May 2019 06:32

Instrument :

MSVOA_X

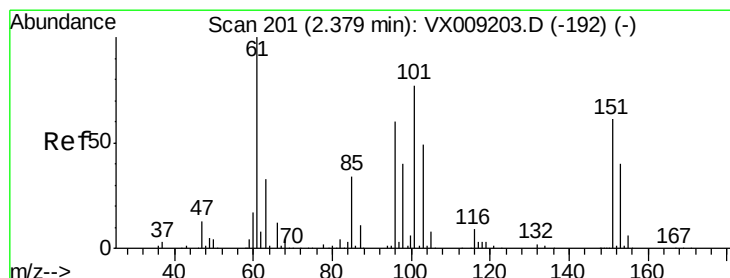
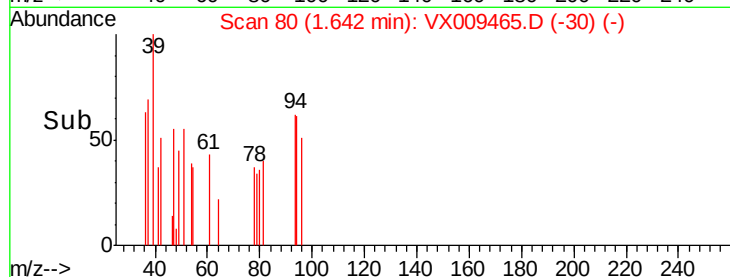
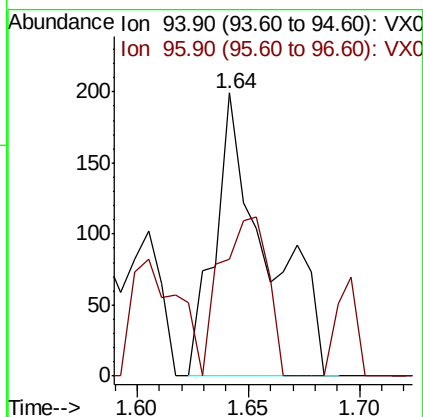
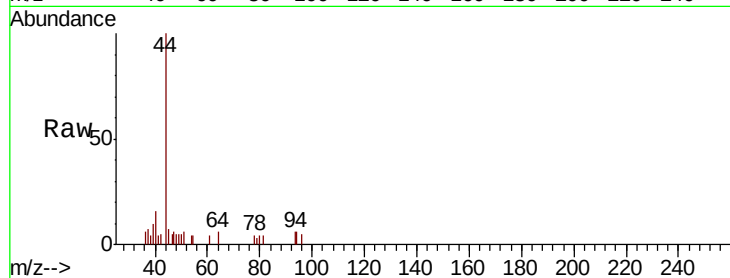
ClientSampleId :

Tot Ion: 94 Resp: 322

Ion Ratio Lower Upper

94 100

96 15.6 73.0 109.6#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.263 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.00 min

Lab File: VX009465.D

Acq: 10 May 2019 06:32

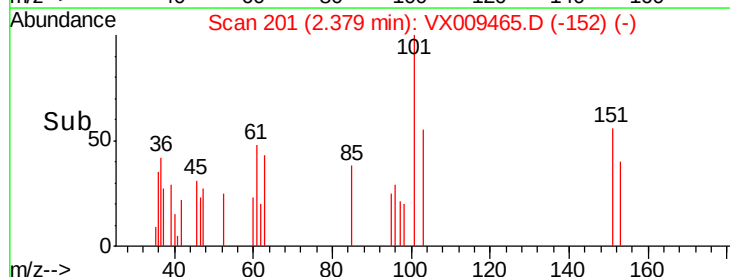
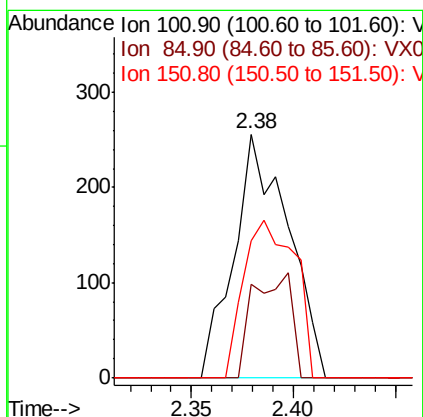
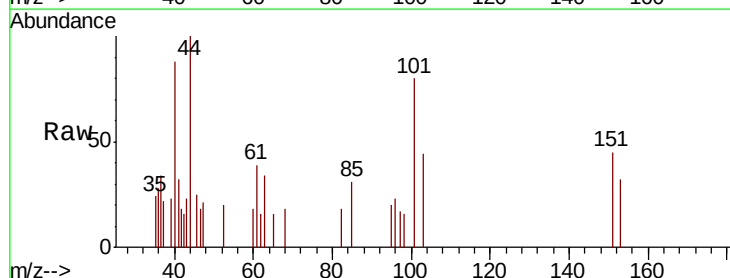
Tgt Ion:101 Resp: 474

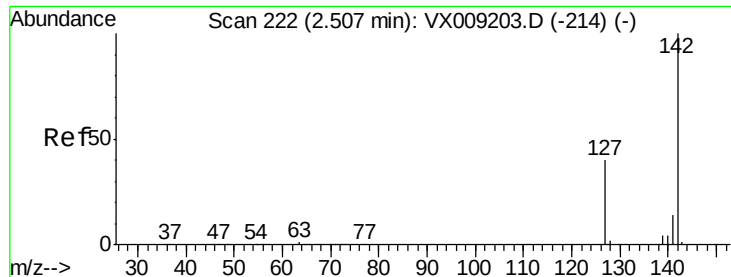
Ion Ratio Lower Upper

101 100

85 30.2 35.7 53.5#

151 61.0 62.2 93.2#

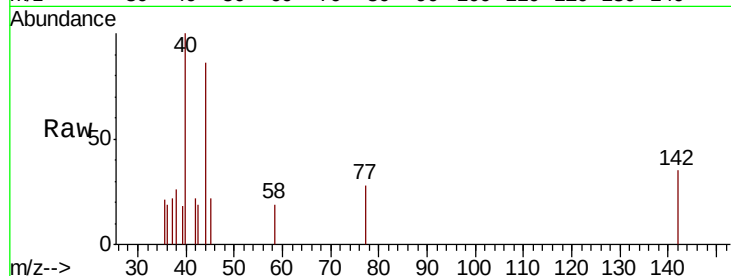




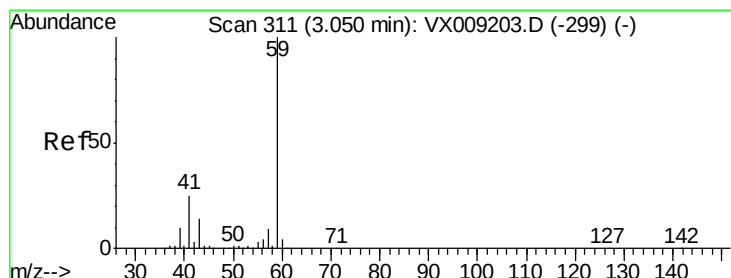
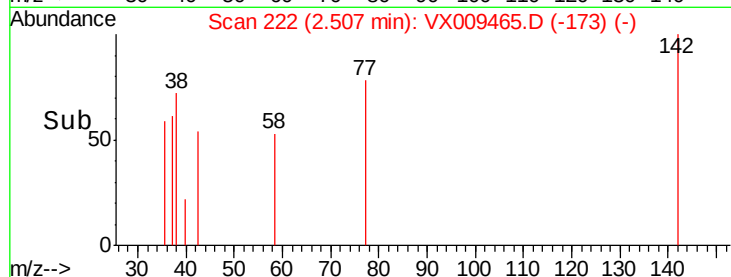
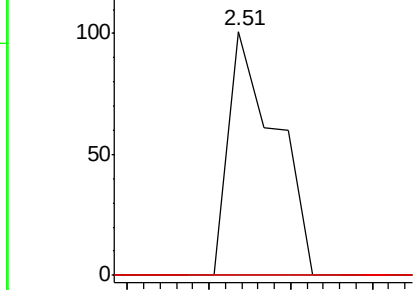
#10
Methvl Iodide
Concen: 4.629 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX009465.D
Acq: 10 May 2019 06:32

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 81
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

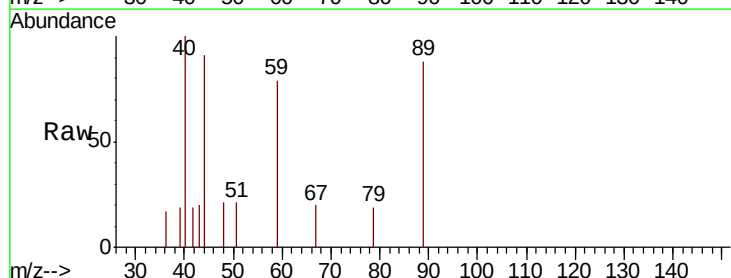


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

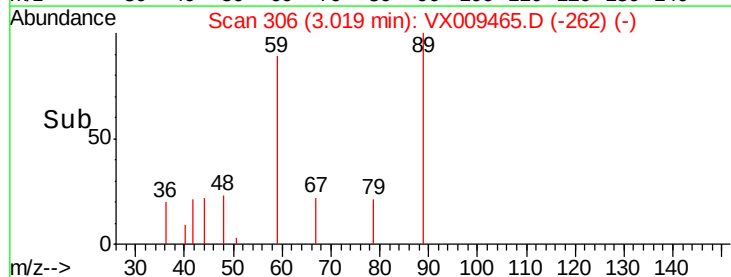
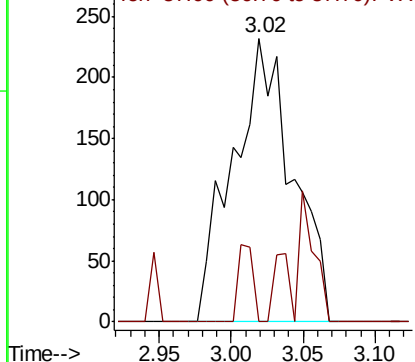


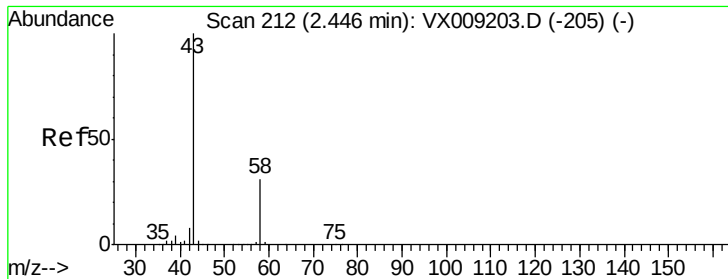
#11
Tert butyl alcohol
Concen: 1.100 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009465.D
Acq: 10 May 2019 06:32

Tgt Ion: 59 Resp: 668
Ion Ratio Lower Upper
59 100
57 6.7 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 0.812 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009465.D

Acq: 10 May 2019 06:32

Instrument :

MSVOA_X

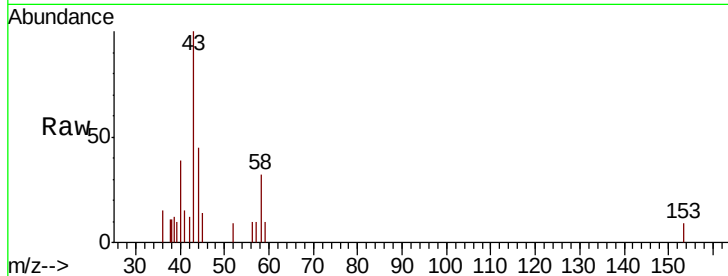
ClientSampleId :

Tot Ion: 43 Resp: 1144

Ion Ratio Lower Upper

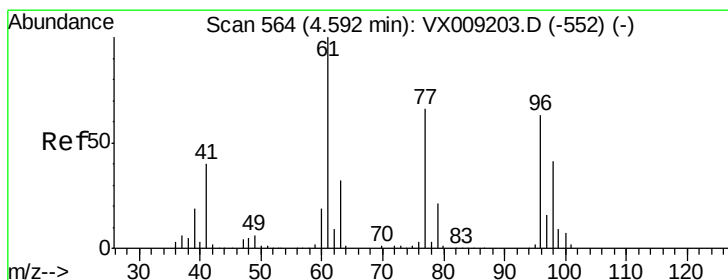
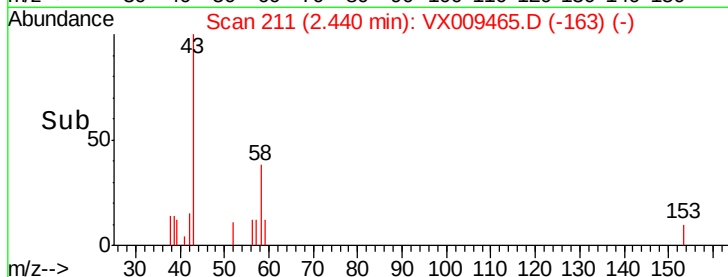
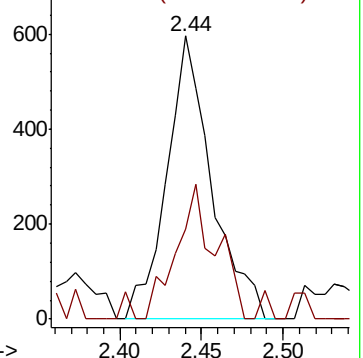
43 100

58 31.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 5.727 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX009465.D

Acq: 10 May 2019 06:32

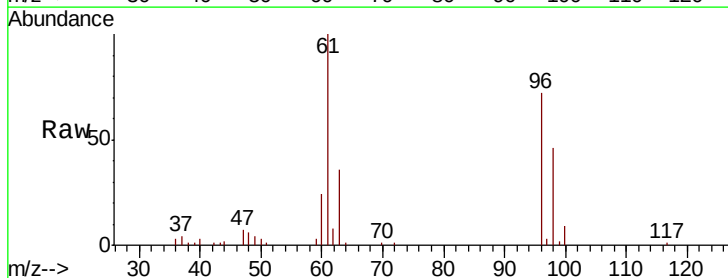
Tgt Ion: 96 Resp: 13372

Ion Ratio Lower Upper

96 100

61 144.7 0.0 324.0

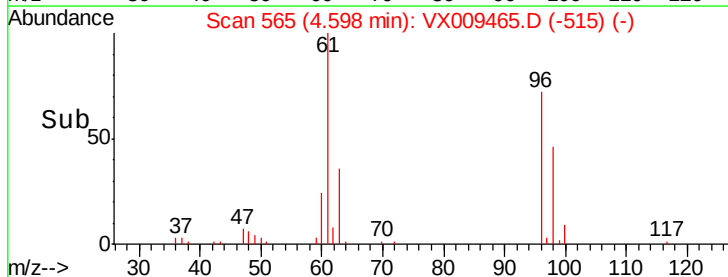
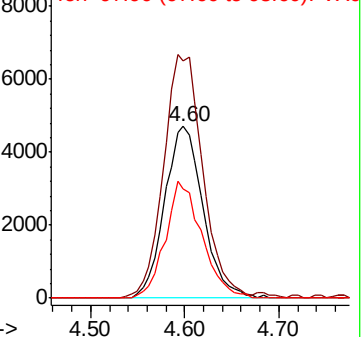
98 64.7 0.0 130.4

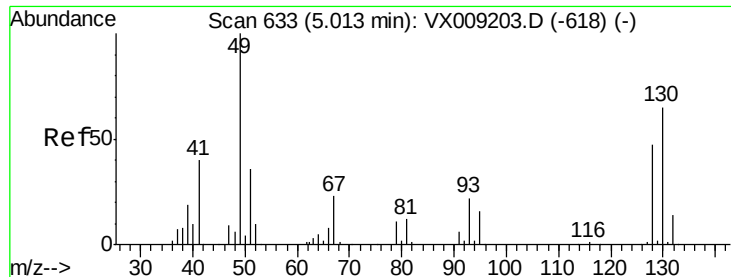


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

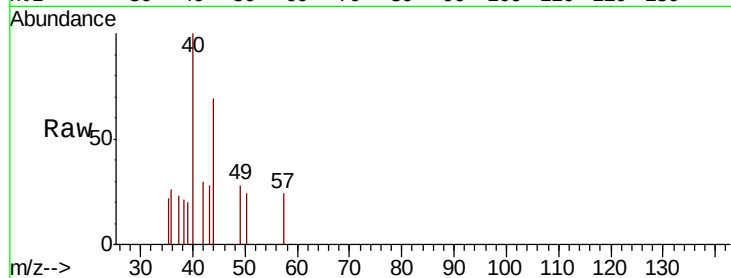
Delta R.T. -0.01 min

Lab File: VX009465.D

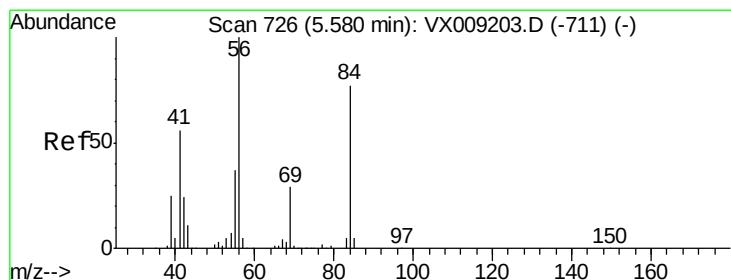
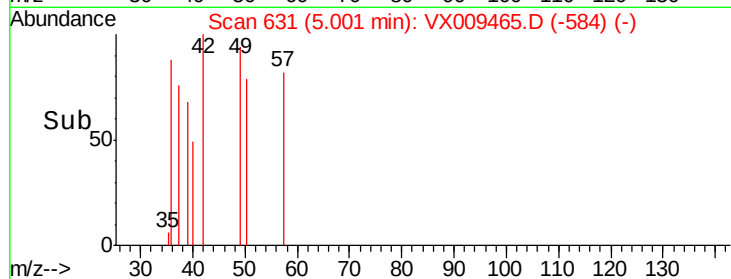
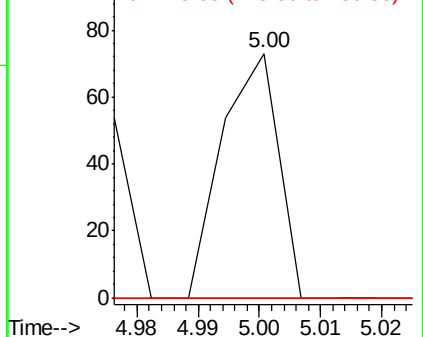
Acq: 10 May 2019 06:32

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 46
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 51.2 76.8#



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: 1.083 ug/l

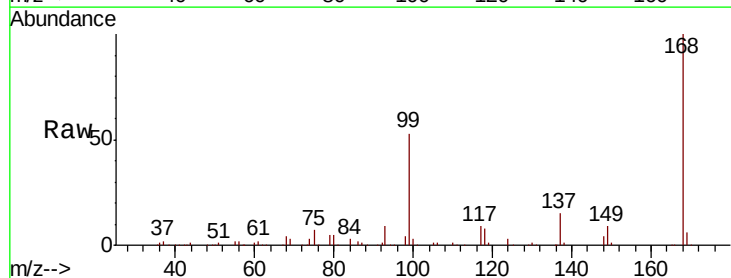
RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

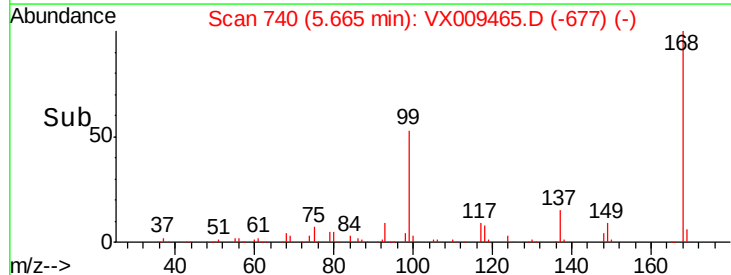
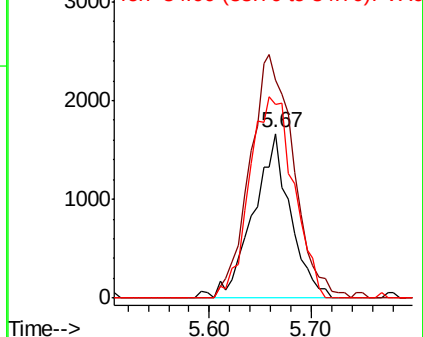
Lab File: VX009465.D

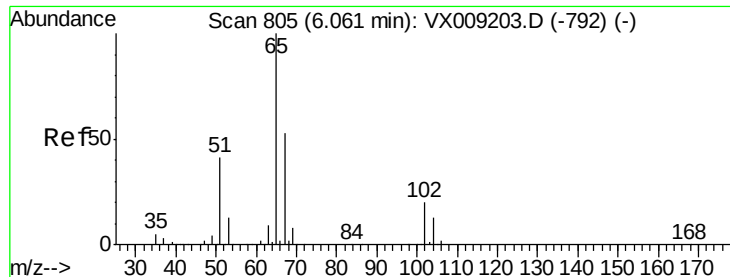
Acq: 10 May 2019 06:32

Tgt Ion: 56 Resp: 4201
Ion Ratio Lower Upper
56 100
69 132.8 23.4 35.0#
84 117.9 61.9 92.9#



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

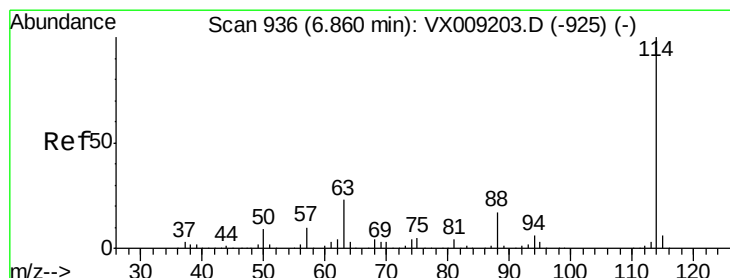
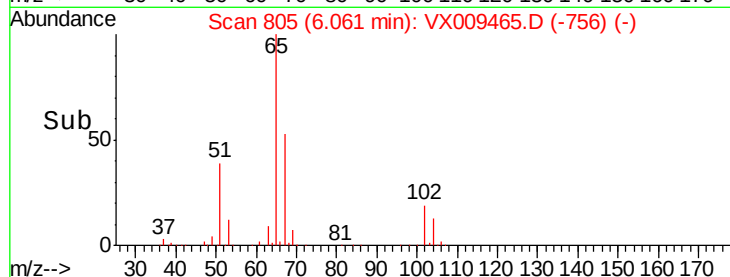
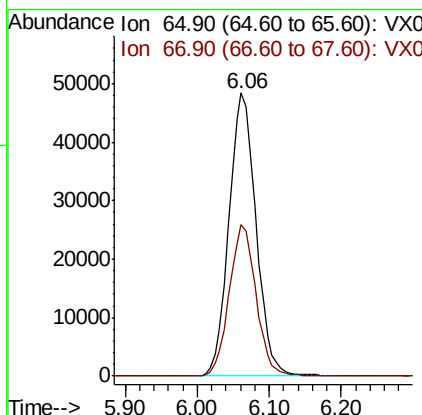
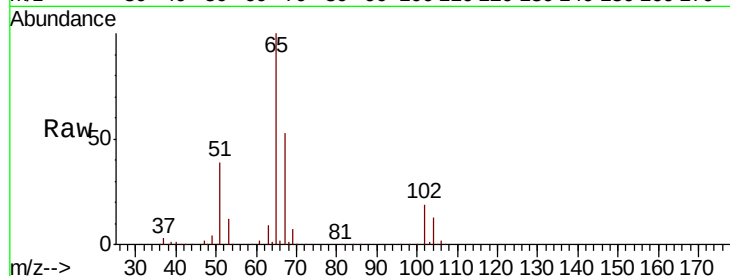




#33
 1,2-Dichloroethane-d4
 Concen: 48.222 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009465.D
 Acq: 10 May 2019 06:32

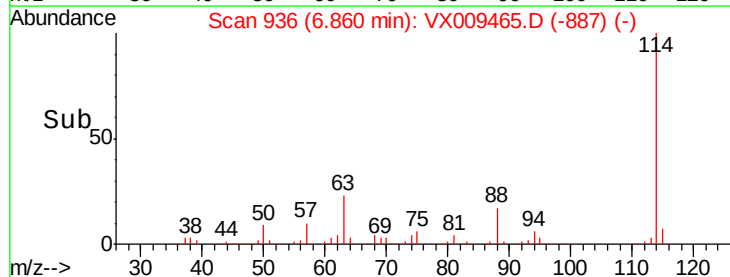
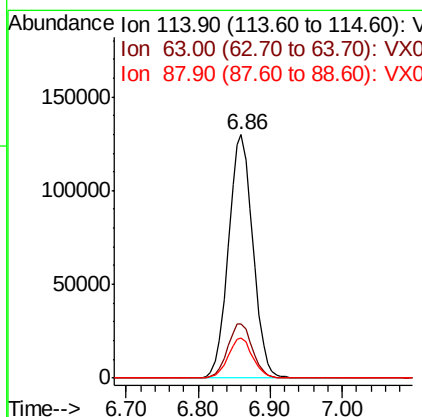
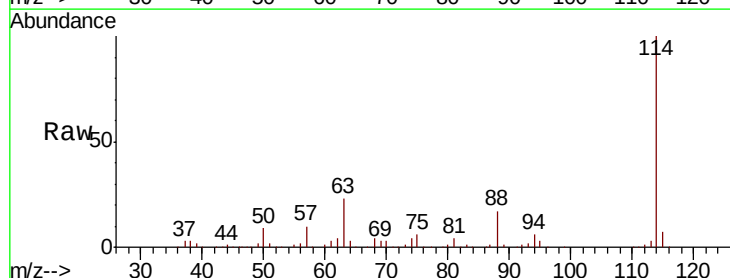
Instrument :
 MSVOA_X
 ClientSampled :

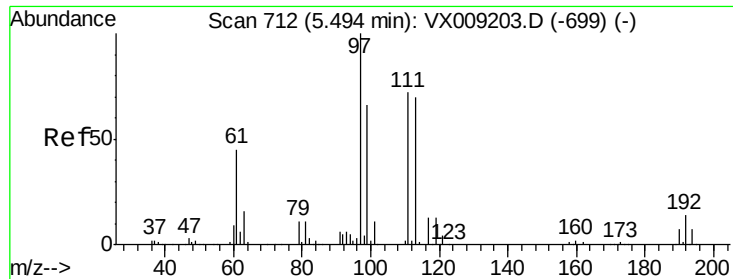
Tot Ion: 65 Resp: 126538
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009465.D
 Acq: 10 May 2019 06:32

Tgt Ion: 114 Resp: 306376
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 45.6
 88 16.5 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.924 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009465.D

Acq: 10 May 2019 06:32

Instrument :

MSVOA_X

ClientSampleId :

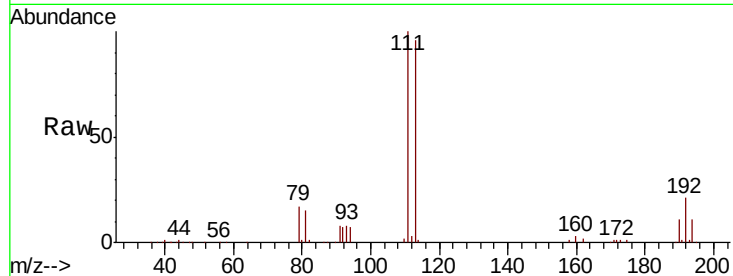
Tot Ion:113 Resp: 94227

Ion Ratio Lower Upper

113 100

111 102.3 82.8 124.2

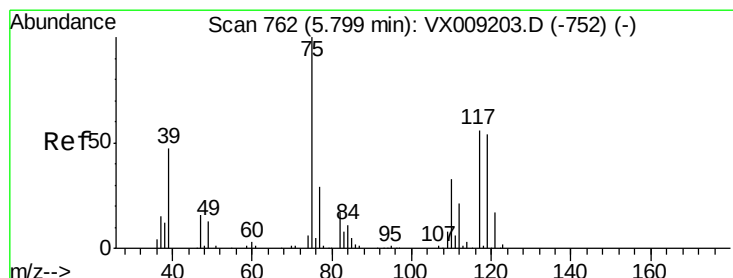
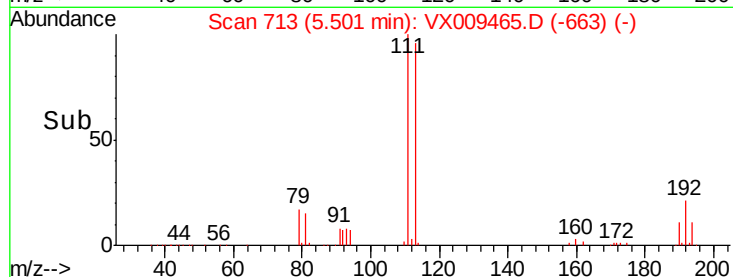
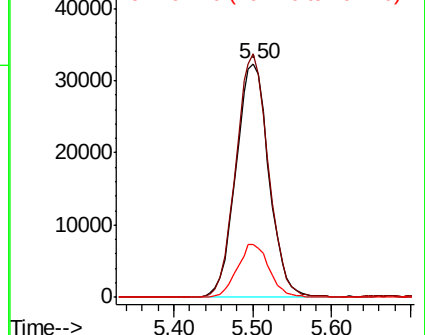
192 22.0 17.0 25.6



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: 5.178 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009465.D

Acq: 10 May 2019 06:32

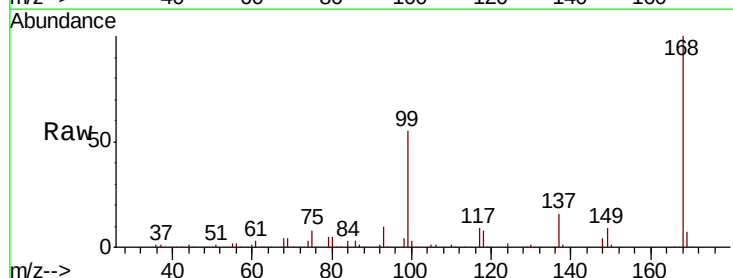
Tgt Ion: 75 Resp: 14743

Ion Ratio Lower Upper

75 100

110 9.6 16.9 50.6#

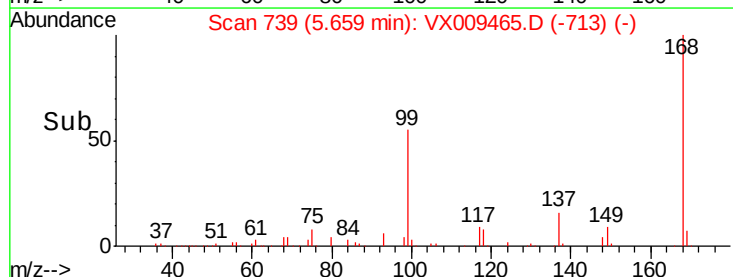
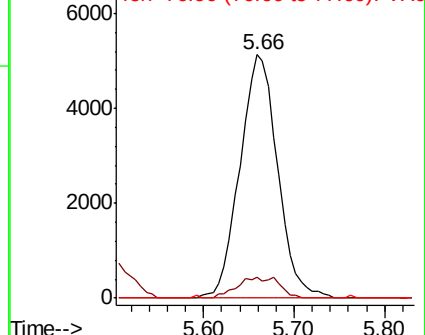
77 0.0 24.8 37.2#

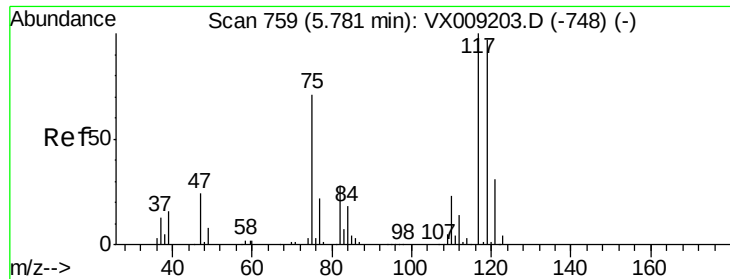


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.899 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009465.D

Acq: 10 May 2019 06:32

Instrument :

MSVOA_X

ClientSampled :

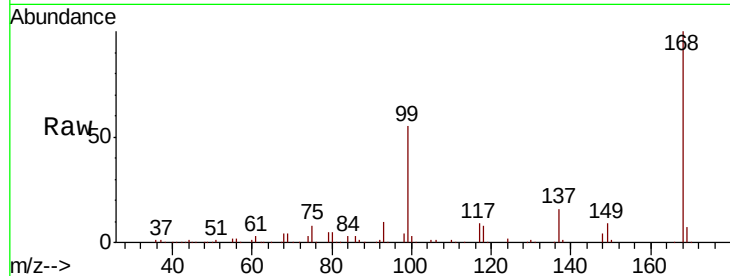
Tot Ion:117 Resp: 17848

Ion Ratio Lower Upper

117 100

119 5.3 77.5 116.3#

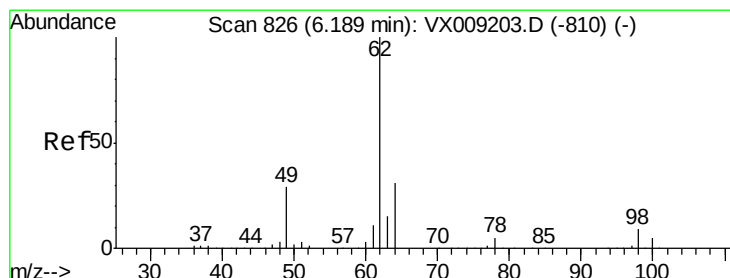
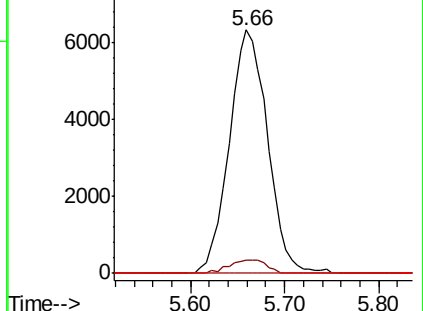
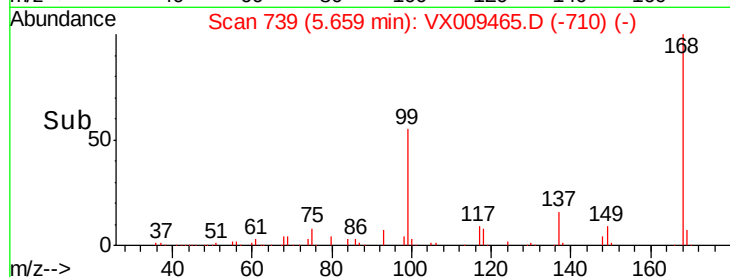
121 0.0 24.7 37.1#



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



#42

1,2-Dichloroethane

Concen: 0.250 ug/l

RT: 6.20 min Scan# 827

Delta R.T. 0.01 min

Lab File: VX009465.D

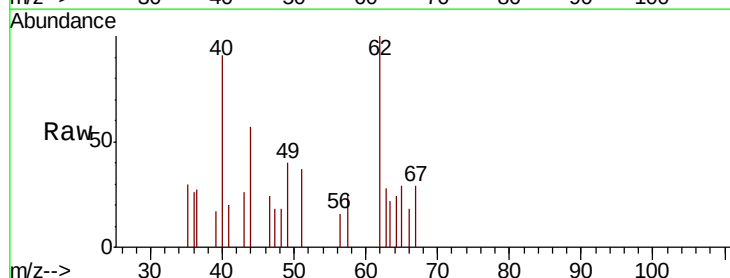
Acq: 10 May 2019 06:32

Tgt Ion: 62 Resp: 791

Ion Ratio Lower Upper

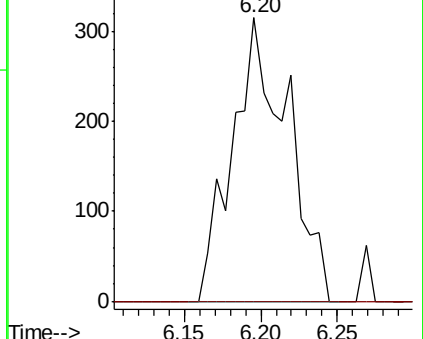
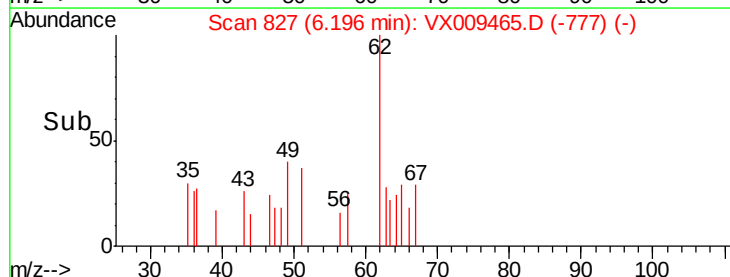
62 100

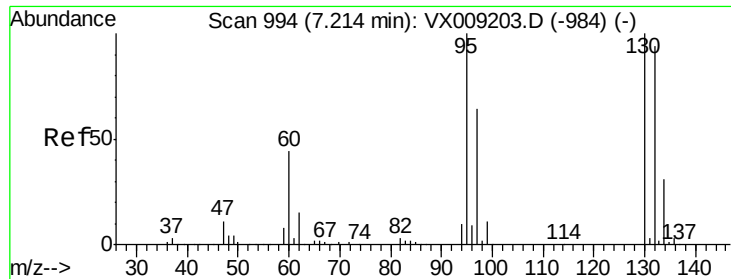
98 0.0 0.0 18.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 6.117 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX009465.D

Acq: 10 May 2019 06:32

Instrument :

MSVOA_X

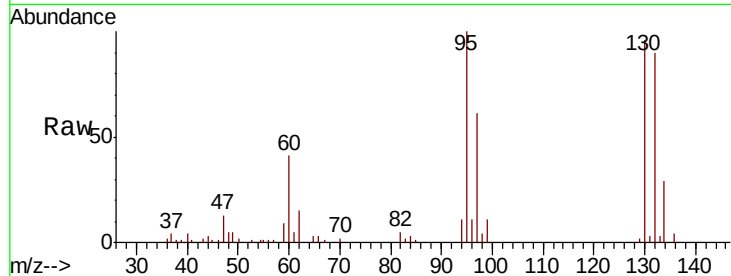
ClientSampled :

Tot Ion:130 Resp: 13030

Ion Ratio Lower Upper

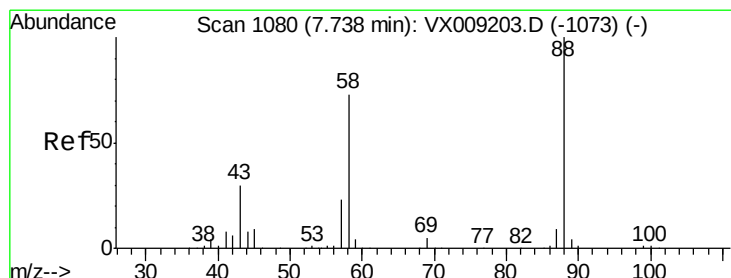
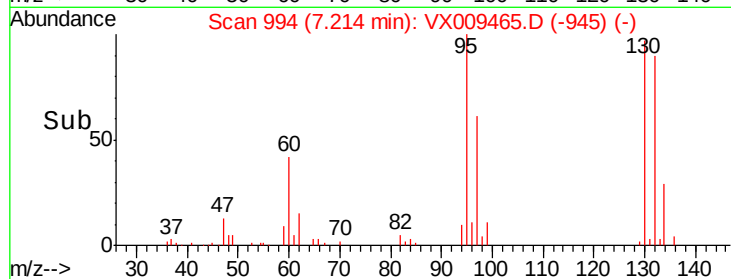
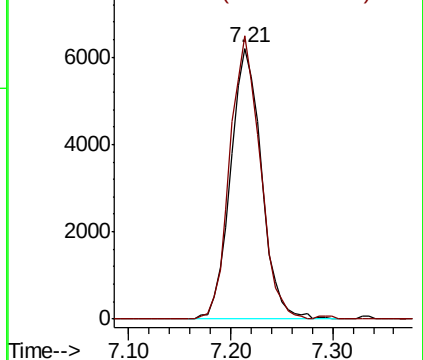
130 100

95 104.4 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.313 ug/l

RT: 7.79 min Scan# 1088

Delta R.T. 0.05 min

Lab File: VX009465.D

Acq: 10 May 2019 06:32

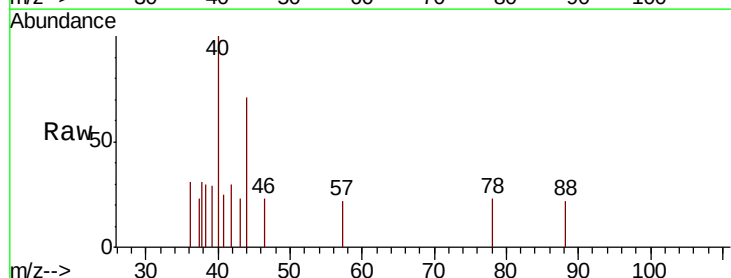
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 835.0 28.6 42.8#

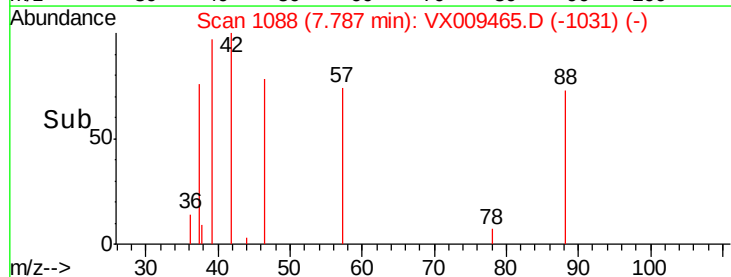
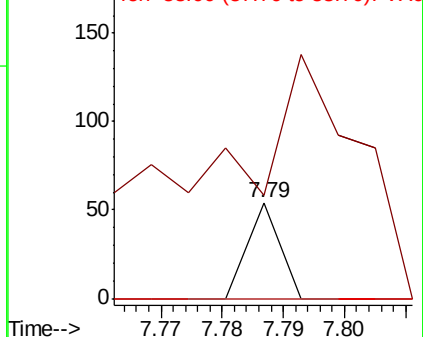
58 0.0 61.7 92.5#

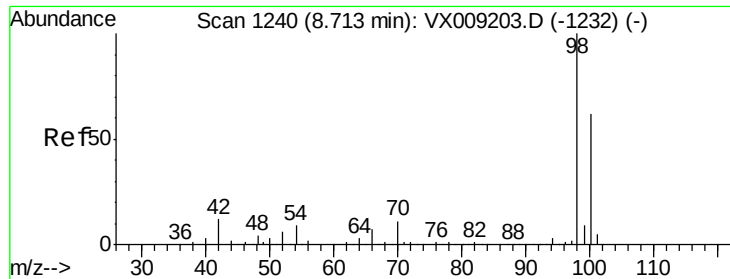


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

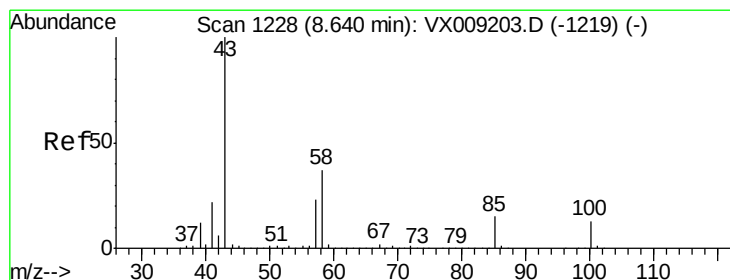
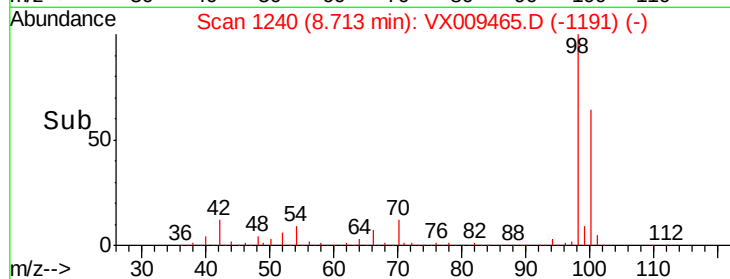
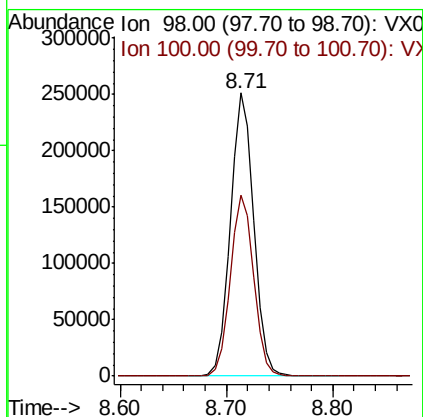
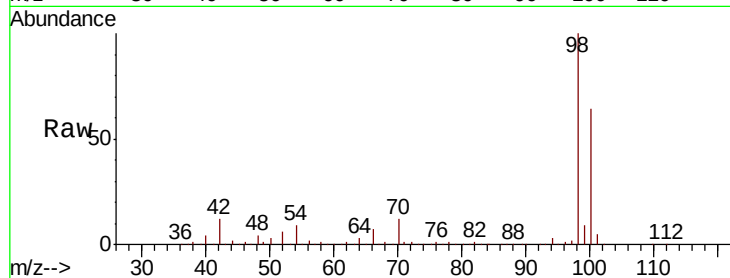




#50
Toluene-d8
Concen: 49.745 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009465.D
Acq: 10 May 2019 06:32

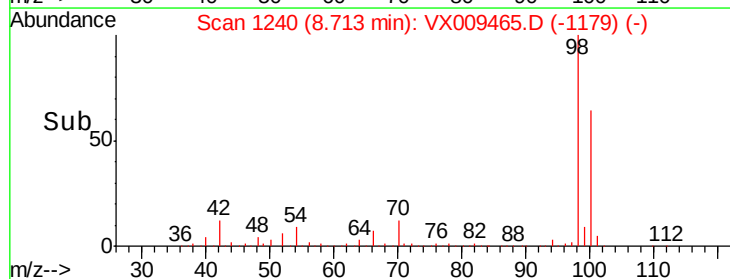
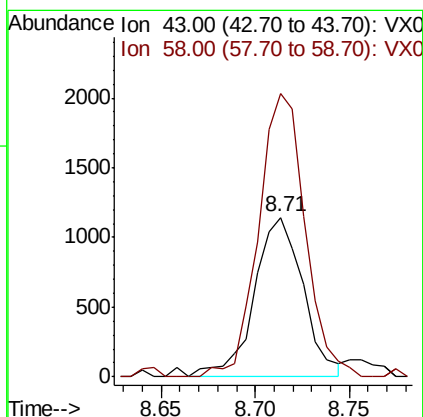
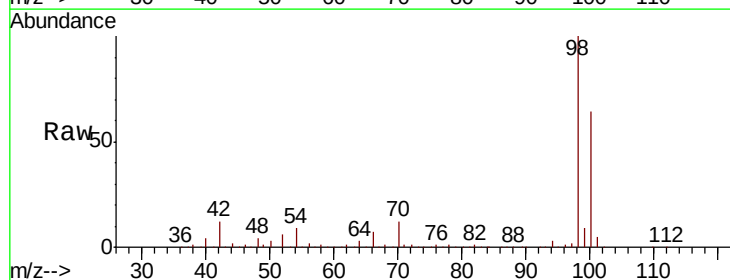
Instrument :
MSVOA_X
ClientSampled :

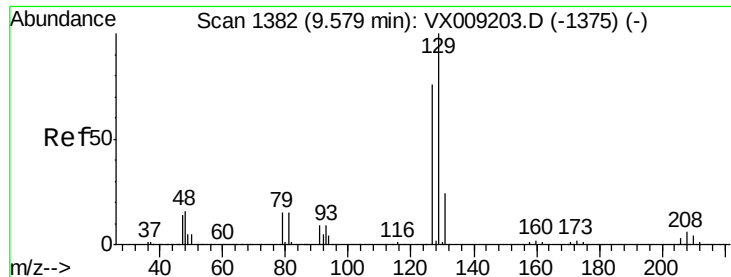
Tot Ion: 98 Resp: 386807
Ion Ratio Lower Upper
98 100
100 64.2 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.496 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.07 min
Lab File: VX009465.D
Acq: 10 May 2019 06:32

Tgt Ion: 43 Resp: 2059
Ion Ratio Lower Upper
43 100
58 169.2 29.5 44.3#

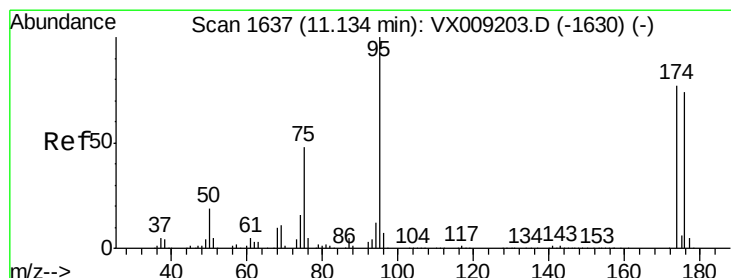
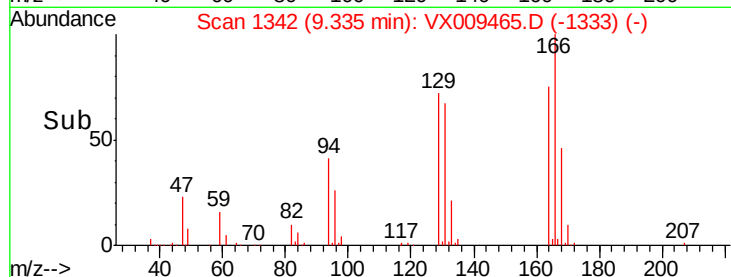
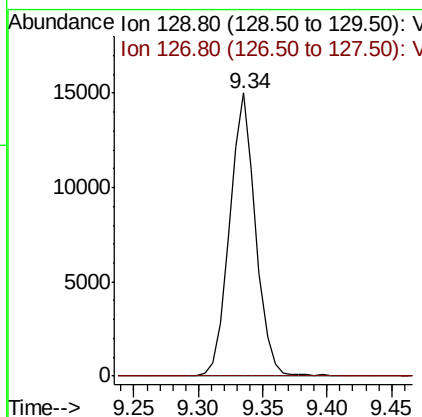
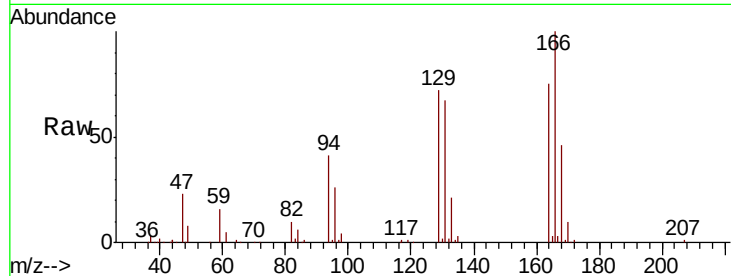




#60
 Dibromochloromethane
 Concen: 9.898 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX009465.D
 Acq: 10 May 2019 06:32

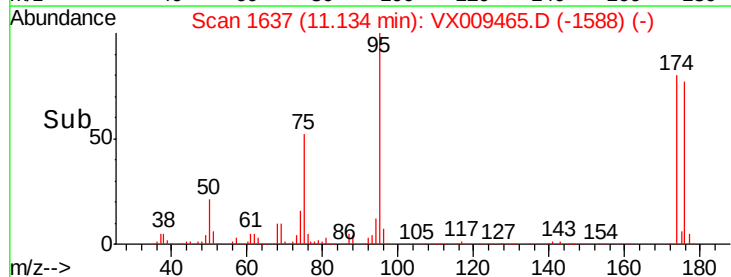
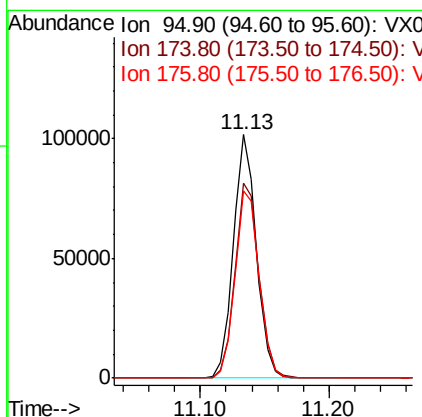
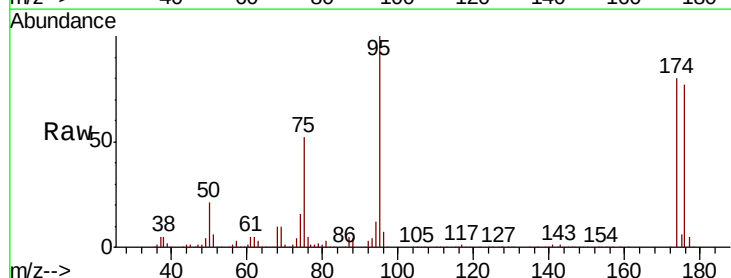
Instrument :
 MSVOA_X
 ClientSampleId :

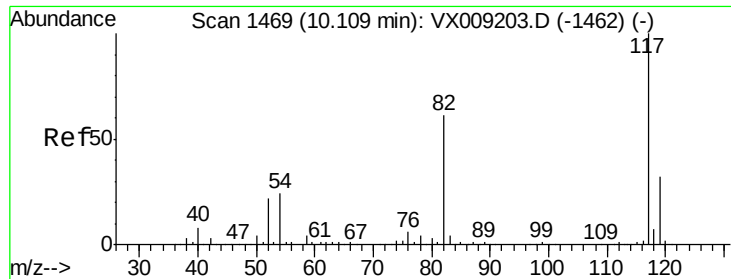
Tot Ion:129 Resp: 21125
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.4 115.1#



#62
 4-Bromofluorobenzene
 Concen: 44.961 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX009465.D
 Acq: 10 May 2019 06:32

Tgt Ion: 95 Resp: 127033
 Ion Ratio Lower Upper
 95 100
 174 83.1 0.0 161.6
 176 80.4 0.0 159.2

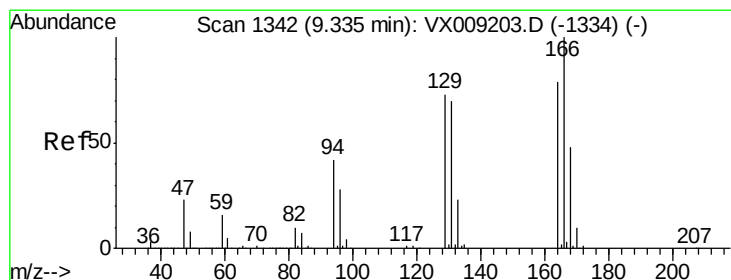
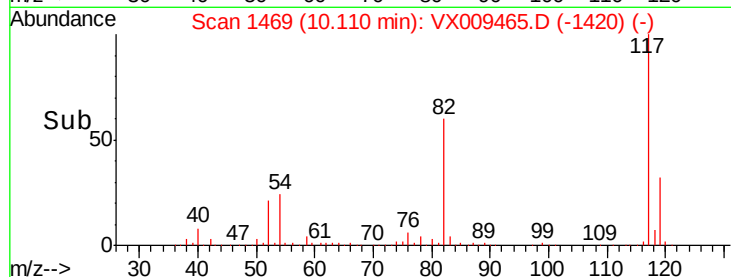
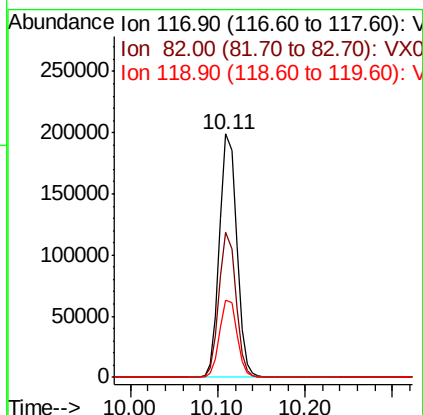
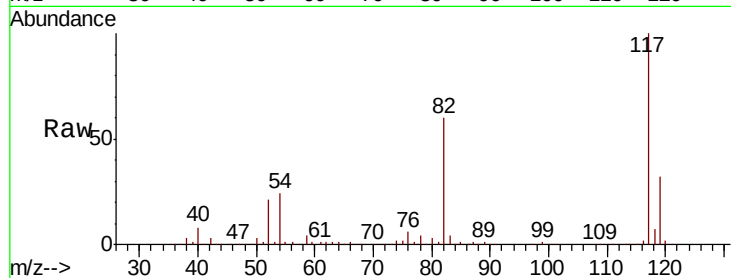




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009465.D
Acq: 10 May 2019 06:32

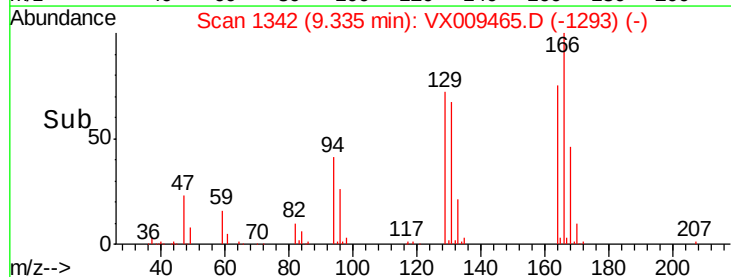
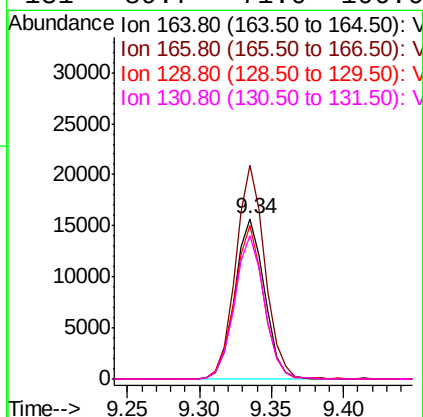
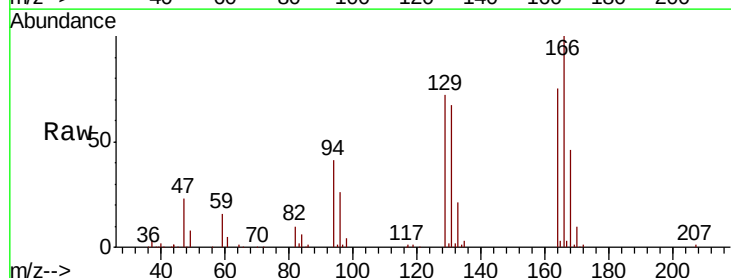
Instrument :
MSVOA_X
ClientSampled :

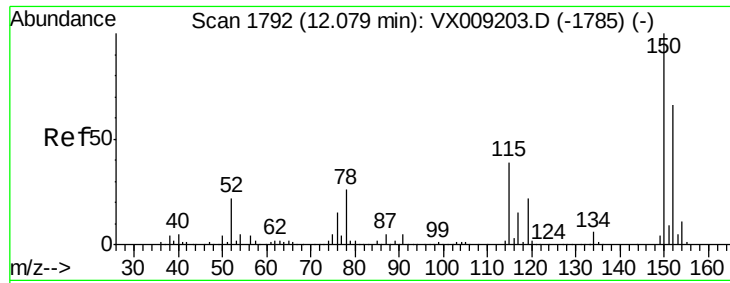
Tot Ion:117 Resp: 271789
Ion Ratio Lower Upper
117 100
82 59.8 48.8 73.2
119 31.6 25.8 38.6



#64
Tetrachloroethene
Concen: 12.045 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX009465.D
Acq: 10 May 2019 06:32

Tgt Ion:164 Resp: 22457
Ion Ratio Lower Upper
164 100
166 133.2 101.2 151.8
129 95.6 74.3 111.5
131 89.7 71.0 106.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009465.D

Acq: 10 May 2019 06:32

Instrument :

MSVOA_X

ClientSampleId :

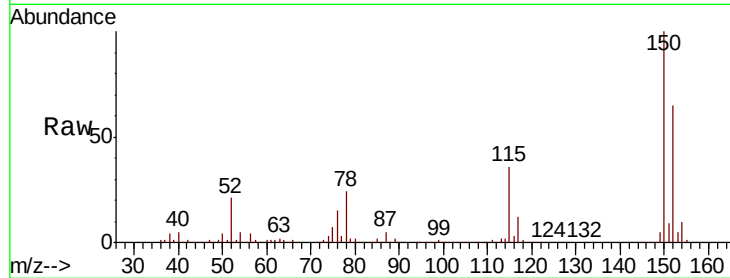
Tot Ion:152 Resp: 116425

Ion Ratio Lower Upper

152 100

115 57.4 41.2 123.6

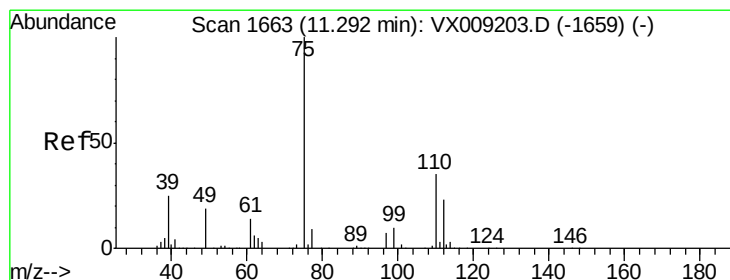
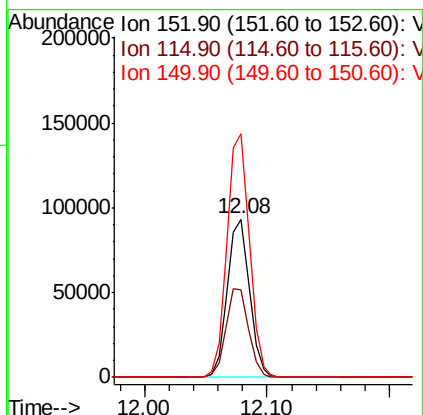
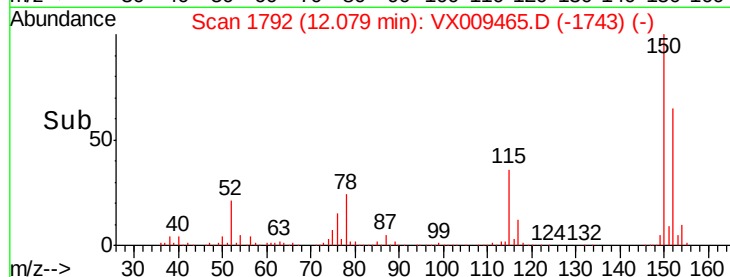
150 155.9 0.0 346.4



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: 23.970 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009465.D

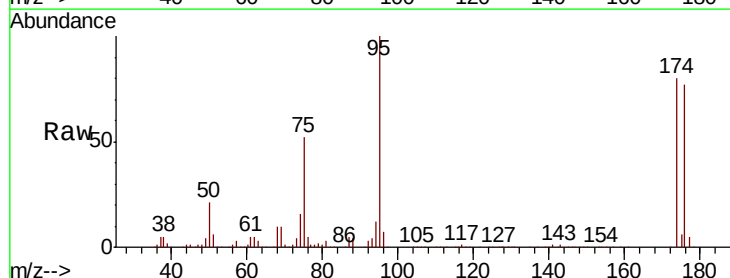
Acq: 10 May 2019 06:32

Tgt Ion: 75 Resp: 64735

Ion Ratio Lower Upper

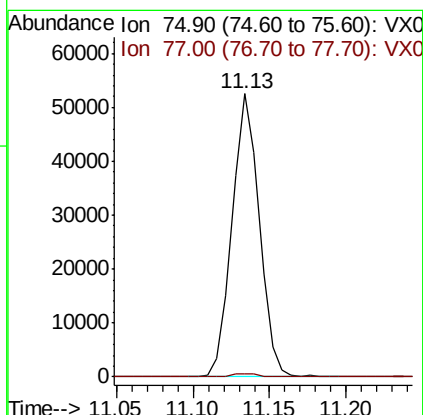
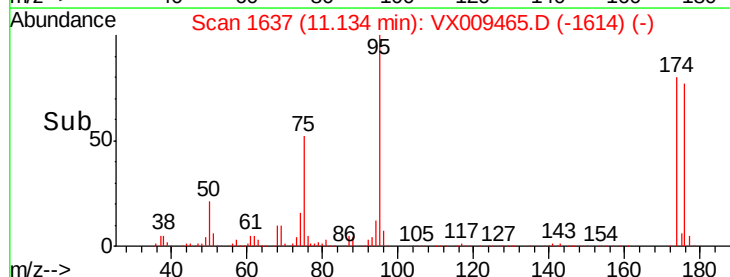
75 100

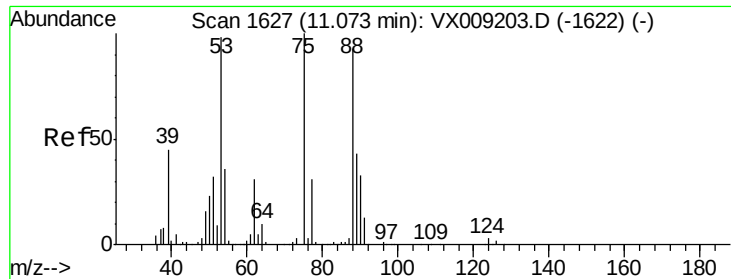
77 1.3 22.1 66.1#



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: 61.331 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009465.D

Acq: 10 May 2019 06:32

Instrument :

MSVOA_X

ClientSampleId :

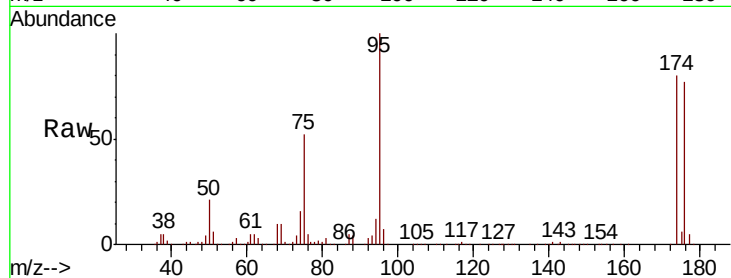
Tot Ion: 75 Resp: 64735

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.0 34.7 52.1#



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

