

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051519\
 Data File : VX009587.D
 Acq On : 15 May 2019 17:58
 Operator : JC/SP
 Sample : K2857-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 16 01:12:00 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	5.67	168	182726	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	288250	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	256620	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	108506	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	120326	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
35) Dibromofluoromethane	5.50	113	87950	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
50) Toluene-d8	8.71	98	362861	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
62) 4-Bromofluorobenzene	11.13	95	120061	45.17	ug/l	0.00
Spiked Amount			Recovery	=	90.34%	

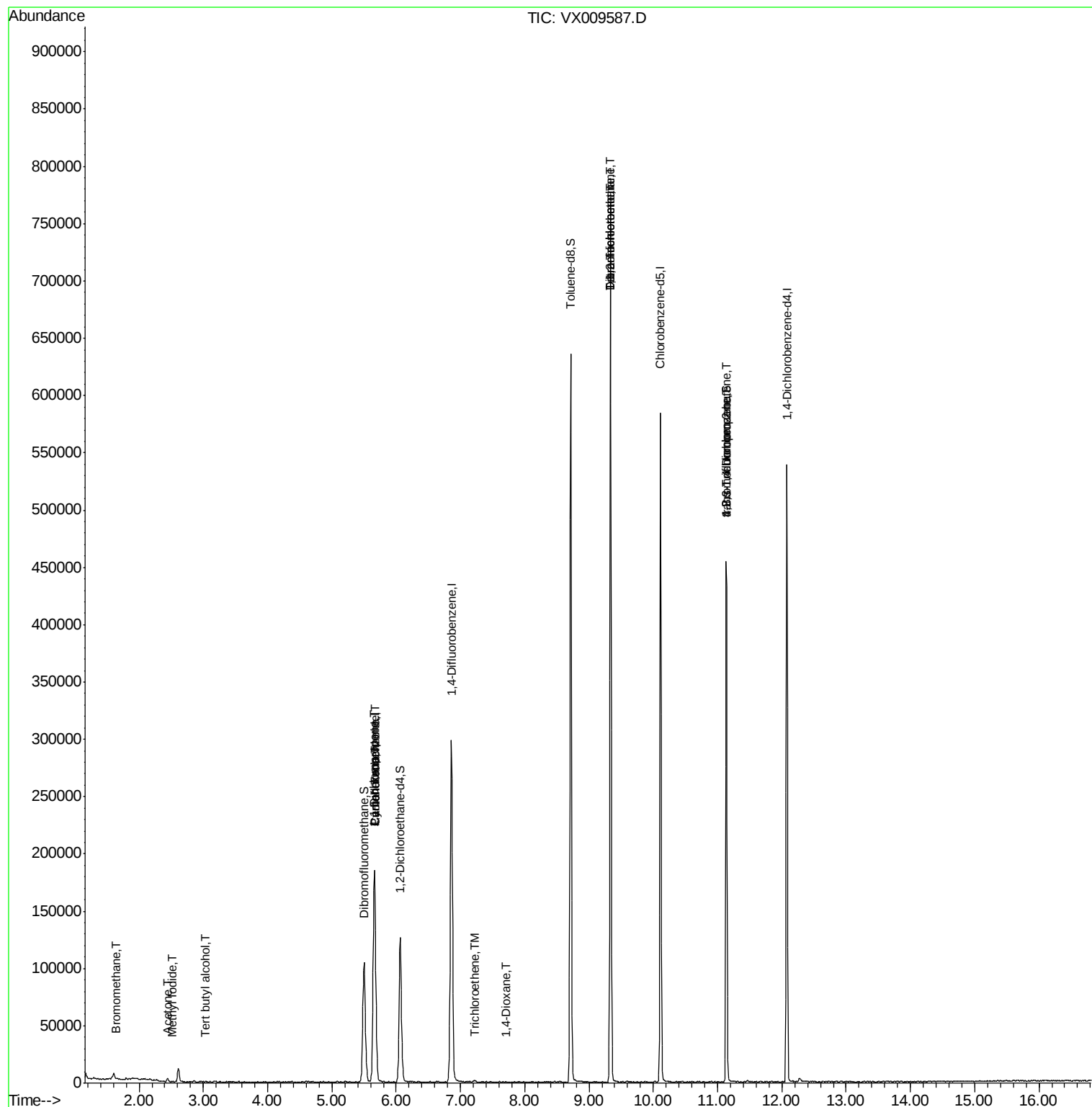
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	282	0.210	ug/l #	46
10) Methyl Iodide	2.53	142	31	4.608	ug/l #	42
11) Tert butyl alcohol	3.02	59	425	0.736	ug/l #	88
16) Acetone	2.44	43	3323	2.481	ug/l	99
28) Bromochloromethane	4.94	49	23	Below Cal	#	20
31) Cyclohexane	5.66	56	4128	1.119	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13837	5.165	ug/l #	47
38) Carbon Tetrachloride	5.66	117	16829	6.915	ug/l #	16
44) Trichloroethene	7.22	130	507	0.253	ug/l	100
49) 1,4-Dioxane	7.70	88	21	0.350	ug/l #	1
55) 1,1,2-Trichloroethane	9.33	97	1186	0.577	ug/l #	1
60) Dibromochloromethane	9.34	129	136554	68.005	ug/l #	11
64) Tetrachloroethene	9.34	164	146930	83.469	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	61546	24.453	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61546	62.565	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
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009587.D

Acq: 15 May 2019 17:58

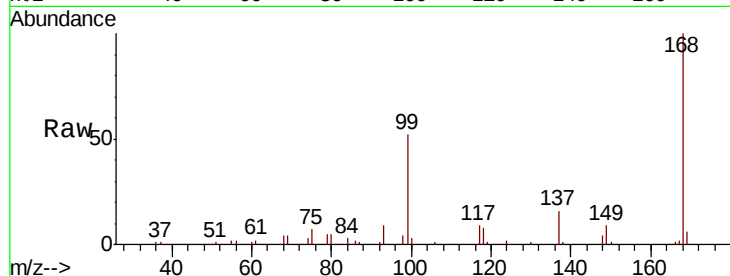
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 182726

Ion Ratio Lower Upper

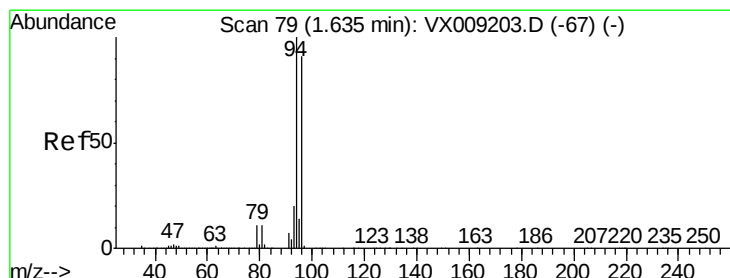
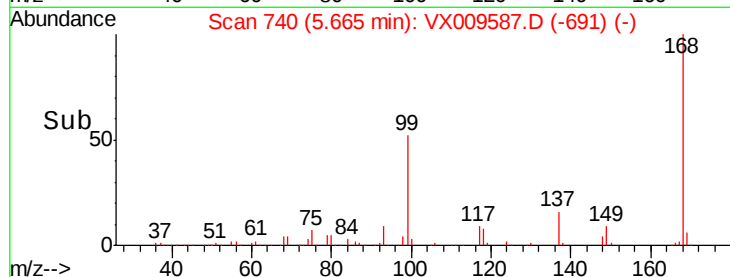
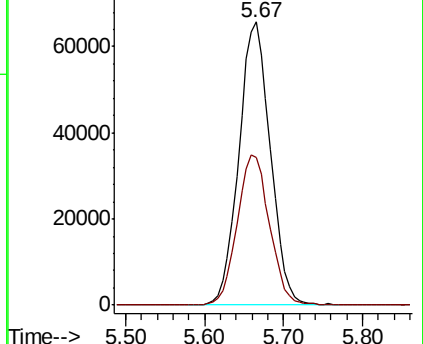
168 100

99 52.4 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.210 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX009587.D

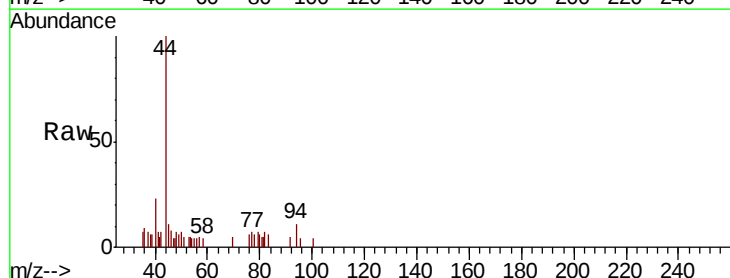
Acq: 15 May 2019 17:58

Tgt Ion: 94 Resp: 282

Ion Ratio Lower Upper

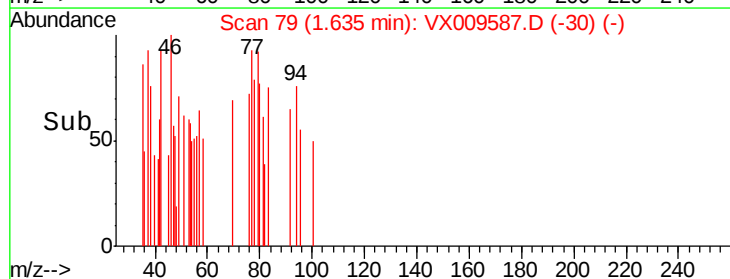
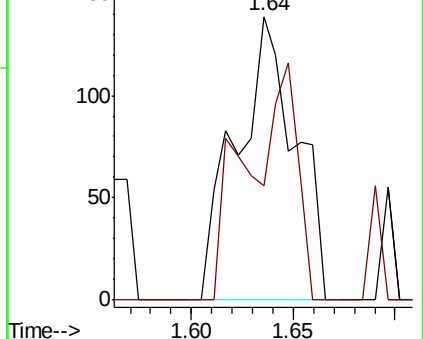
94 100

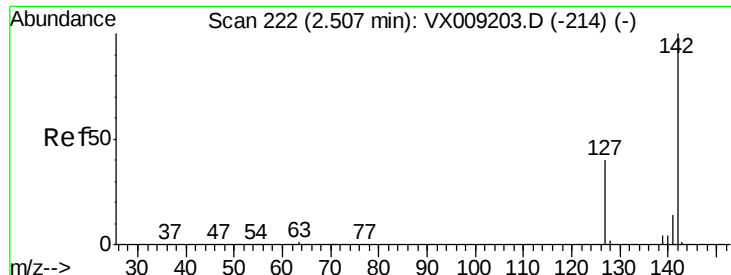
96 40.3 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

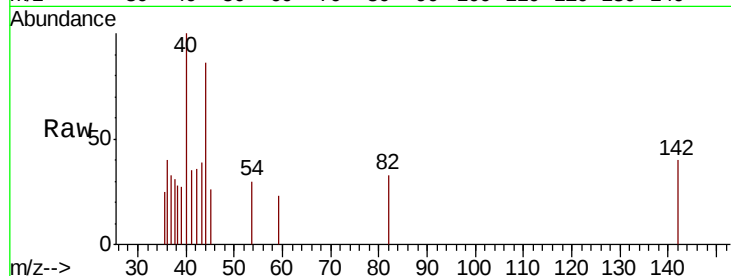




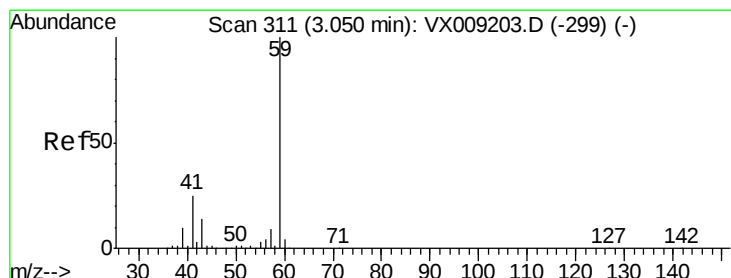
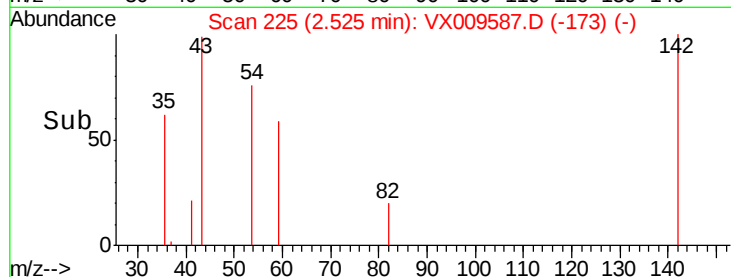
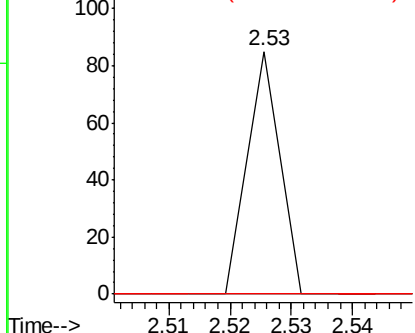
#10
Methvl Iodide
Concen: 4.608 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX009587.D
Acq: 15 May 2019 17:58

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 31
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

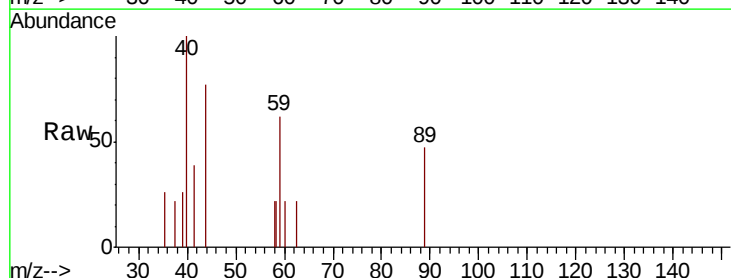


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

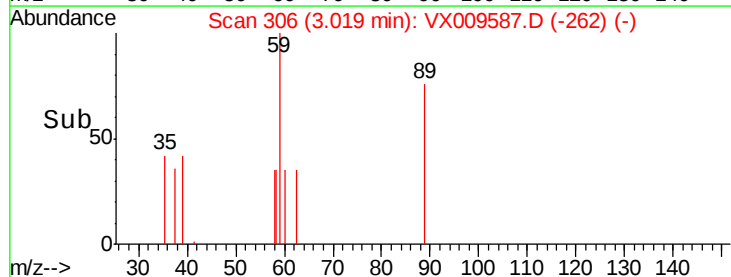
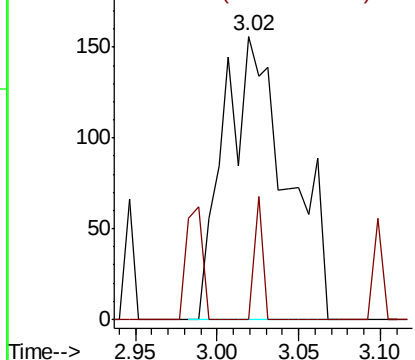


#11
Tert butyl alcohol
Concen: 0.736 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009587.D
Acq: 15 May 2019 17:58

Tgt Ion: 59 Resp: 425
Ion Ratio Lower Upper
59 100
57 5.9 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: 2.481 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009587.D

Acq: 15 May 2019 17:58

Instrument :

MSVOA_X

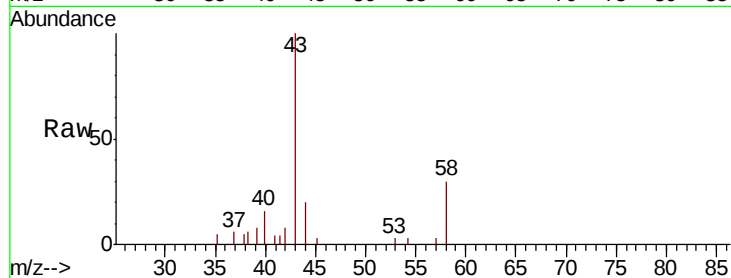
ClientSampleId :

Tot Ion: 43 Resp: 3323

Ion Ratio Lower Upper

43 100

58 30.3 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

1500

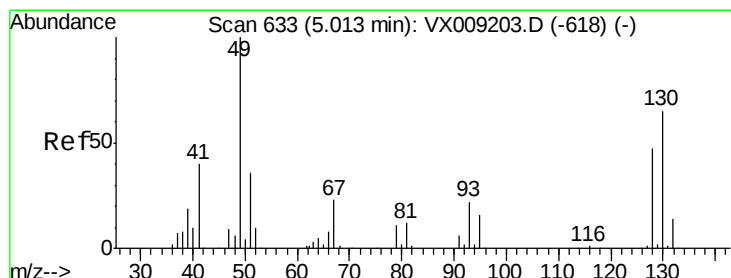
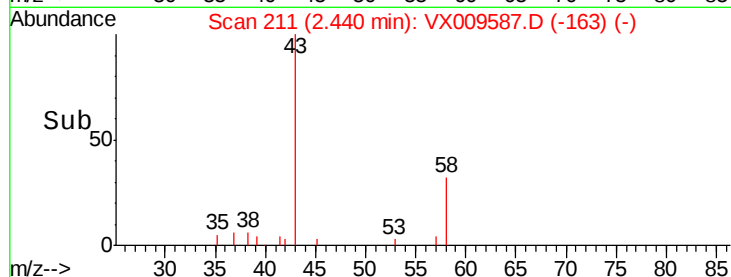
1000

500

0

Time-->

2.35 2.40 2.45 2.50



#28

Bromochloromethane

Concen: Below Cal

RT: 4.94 min Scan# 621

Delta R.T. -0.07 min

Lab File: VX009587.D

Acq: 15 May 2019 17:58

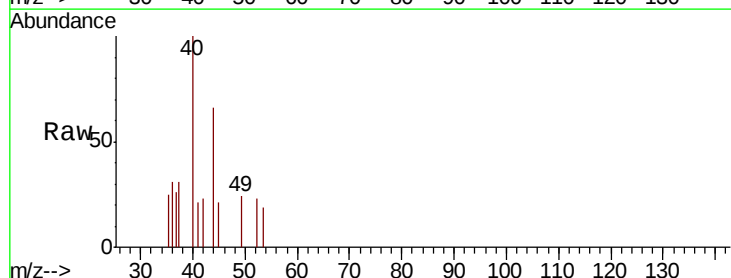
Tgt Ion: 49 Resp: 23

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

80

60

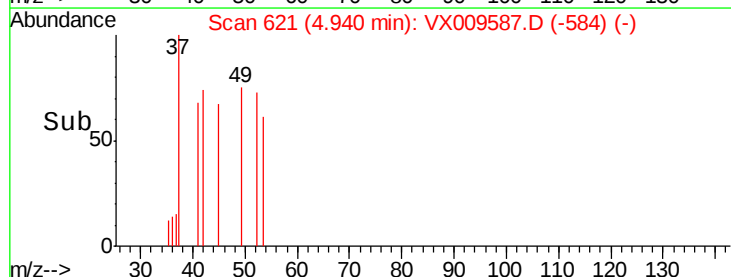
40

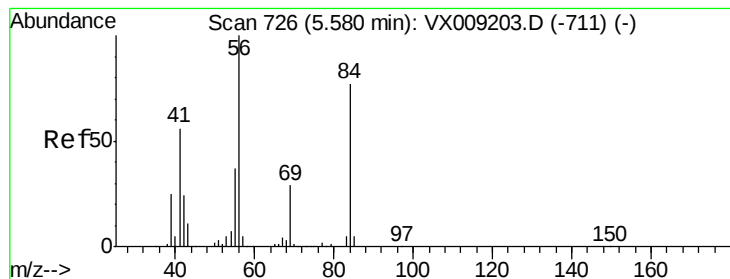
20

0

Time-->

4.93 4.94 4.95





#31

Cyclohexane

Concen: 1.119 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009587.D

Acq: 15 May 2019 17:58

Instrument :

MSVOA_X

ClientSampleId :

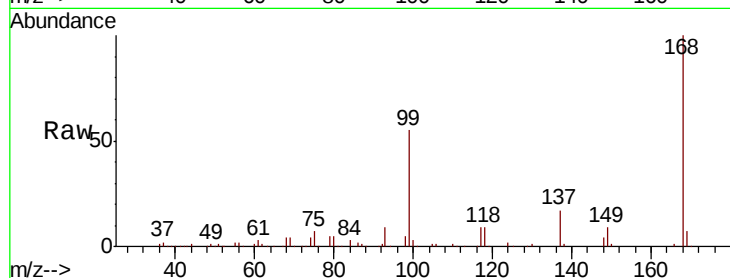
Tot Ion: 56 Resp: 4128

Ion Ratio Lower Upper

56 100

69 173.8 23.4 35.0#

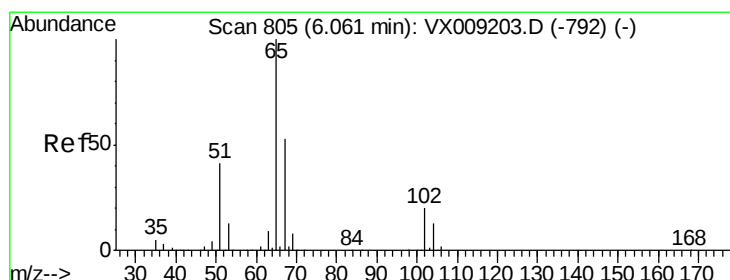
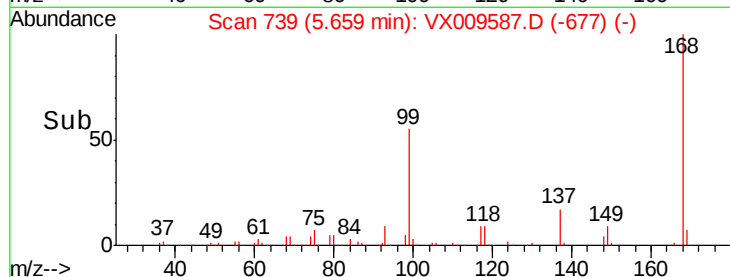
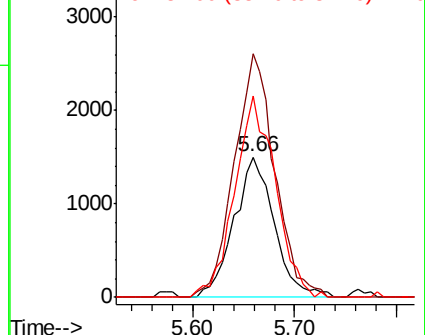
84 143.9 61.9 92.9#



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: 48.238 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009587.D

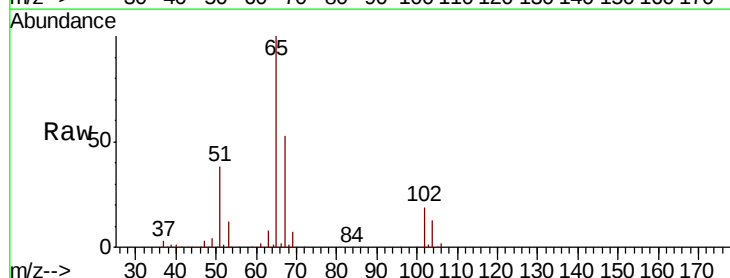
Acq: 15 May 2019 17:58

Tgt Ion: 65 Resp: 120326

Ion Ratio Lower Upper

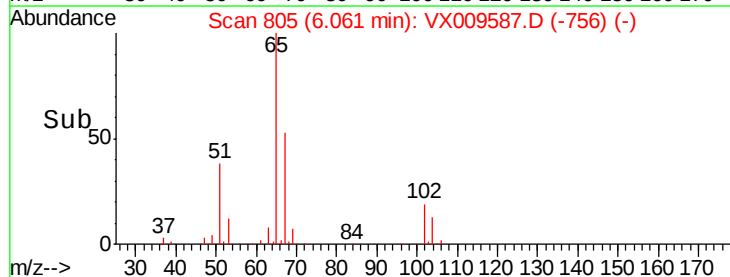
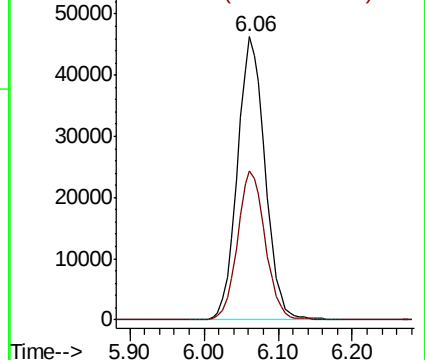
65 100

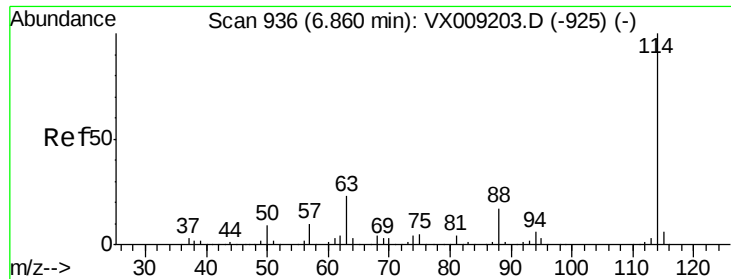
67 52.7 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

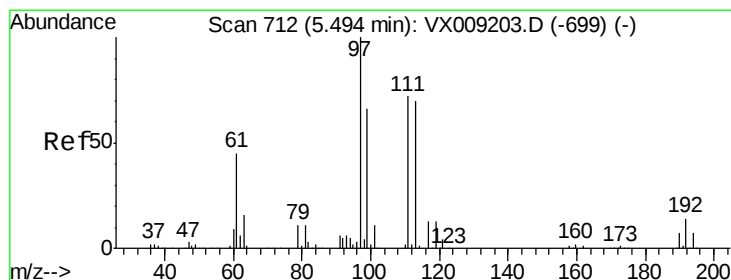
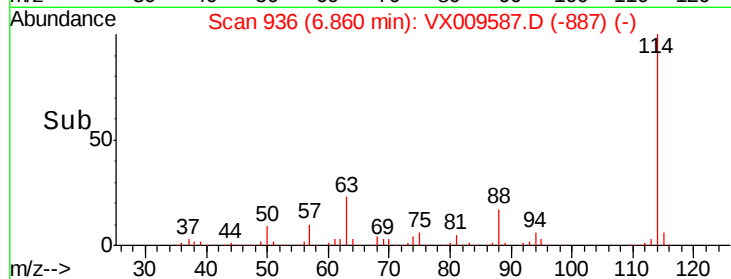
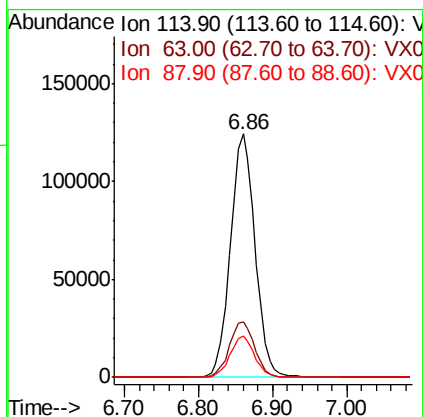
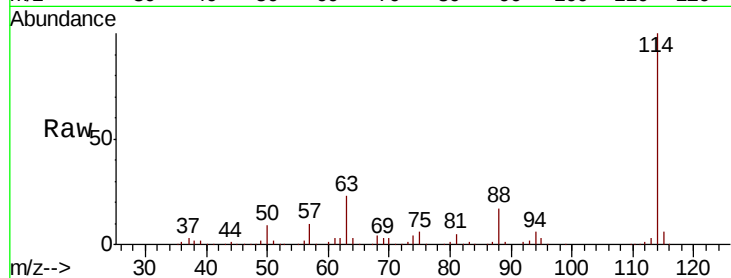




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009587.D
 Acq: 15 May 2019 17:58

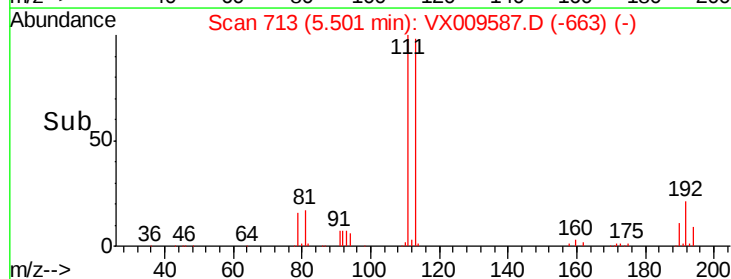
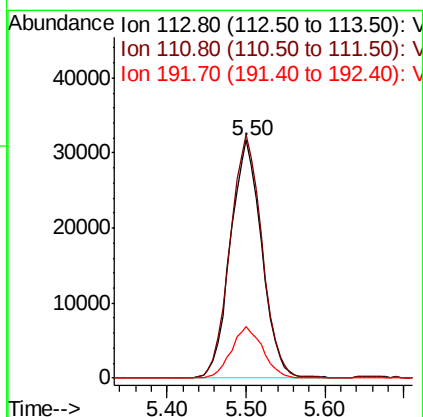
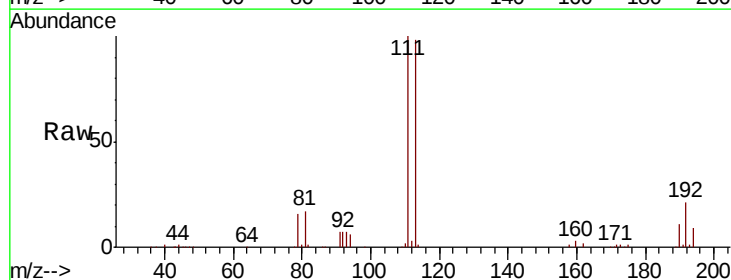
Instrument :
 MSVOA_X
 ClientSampleId :

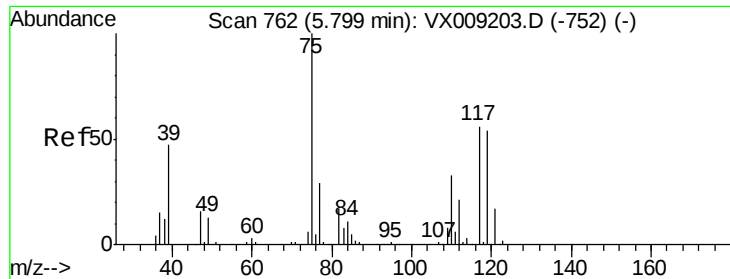
Tot Ion:114 Resp: 288250
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.6
 88 16.8 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 48.536 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009587.D
 Acq: 15 May 2019 17:58

Tgt Ion:113 Resp: 87950
 Ion Ratio Lower Upper
 113 100
 111 103.7 82.8 124.2
 192 21.6 17.0 25.6

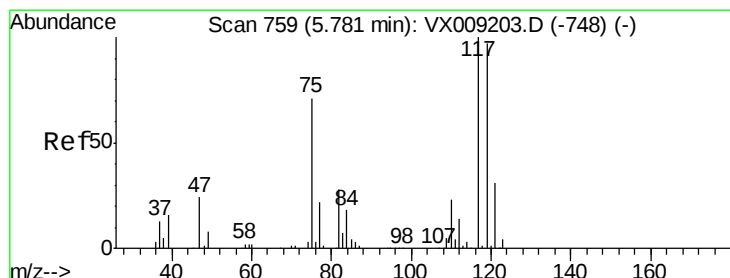
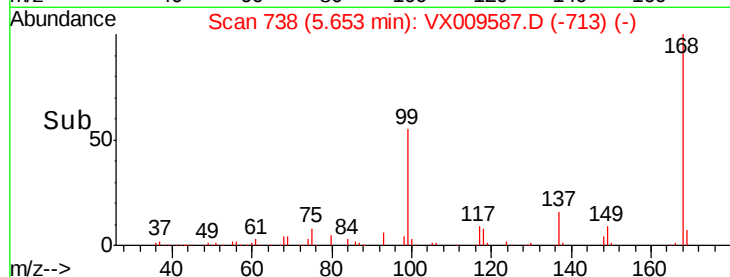
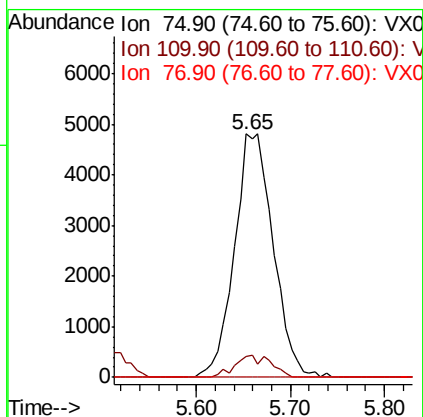
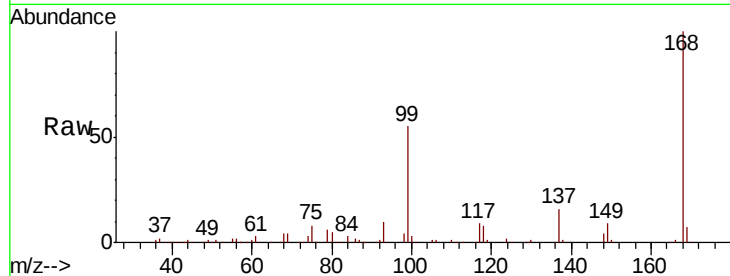




#36
 1,1-Dichloropropene
 Concen: 5.165 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.15 min
 Lab File: VX009587.D
 Acq: 15 May 2019 17:58

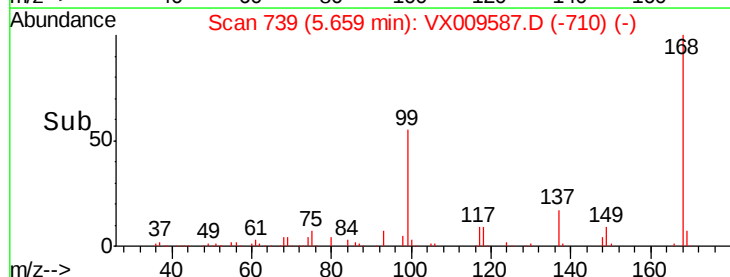
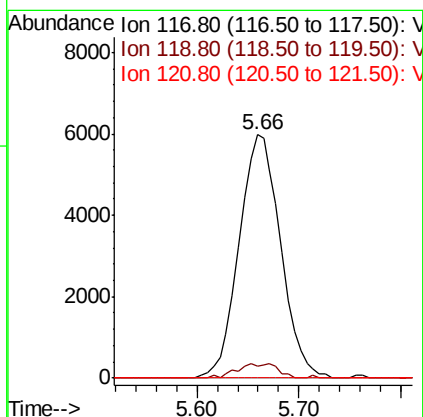
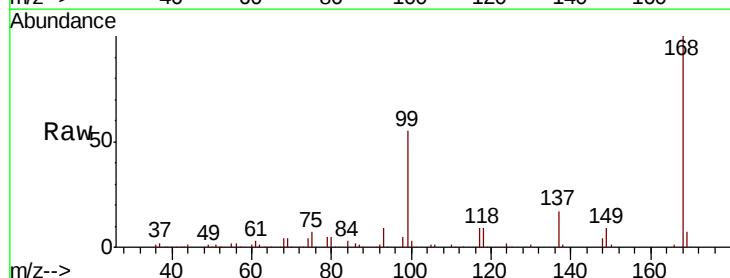
Instrument :
 MSVOA_X
 ClientSampleId :

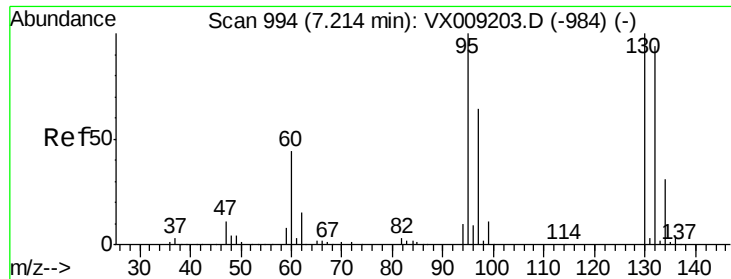
Tot Ion	75	Resp	13837
Ion Ratio	Lower	Upper	
75	100		
110	5.2	16.9	50.6#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.915 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX009587.D
 Acq: 15 May 2019 17:58

Tgt Ion	117	Resp	16829
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	5.1	77.5	116.3#
121	0.0	24.7	37.1#





#44

Trichloroethene

Concen: 0.253 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX009587.D

Acq: 15 May 2019 17:58

Instrument :

MSVOA_X

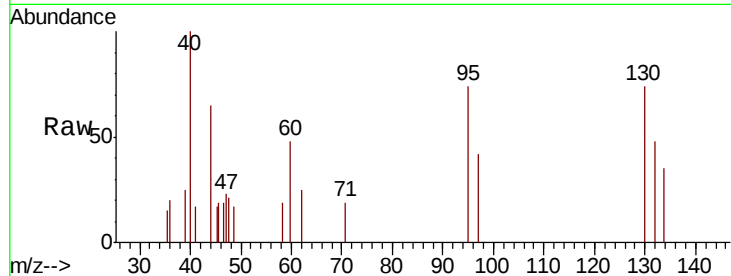
ClientSampled :

Tot Ion:130 Resp: 507

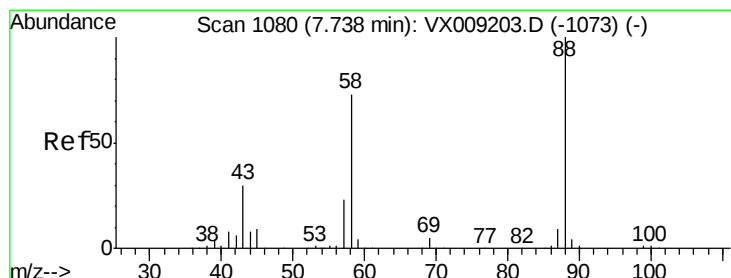
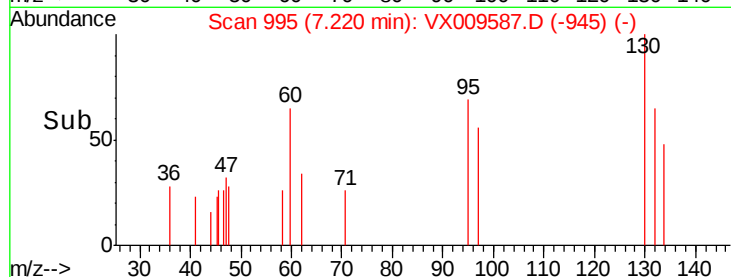
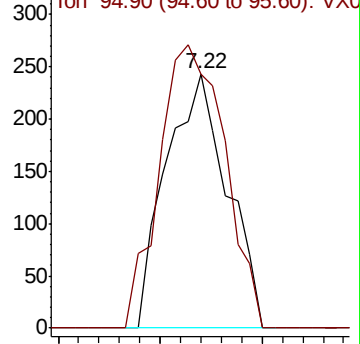
Ion Ratio Lower Upper

130 100

95 100.0 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V



#49

1,4-Dioxane

Concen: 0.350 ug/l

RT: 7.70 min Scan# 1074

Delta R.T. -0.04 min

Lab File: VX009587.D

Acq: 15 May 2019 17:58

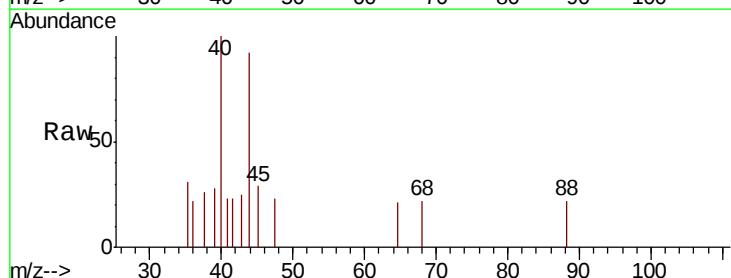
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 866.7 28.6 42.8#

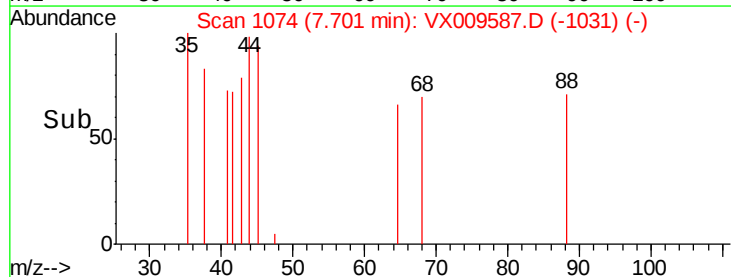
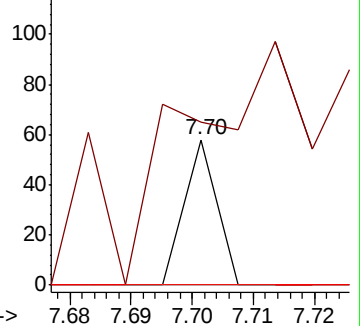
58 0.0 61.7 92.5#

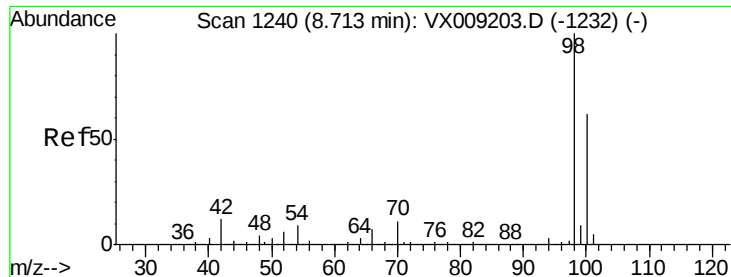


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.600 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009587.D

Acq: 15 May 2019 17:58

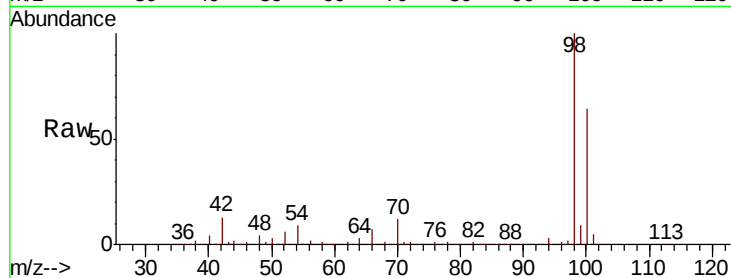
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 98 Resp: 362861

Ion Ratio Lower Upper

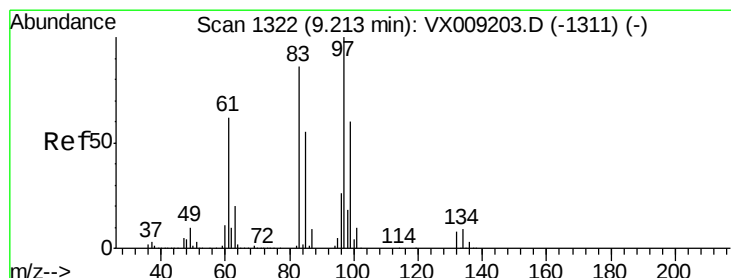
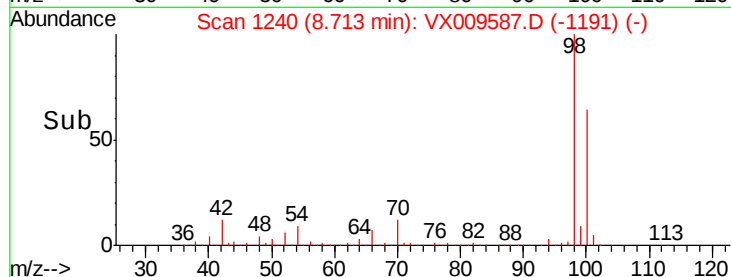
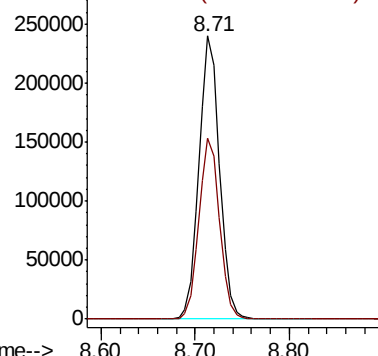
98 100

100 64.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#55

1,1,2-Trichloroethane

Concen: 0.577 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. 0.12 min

Lab File: VX009587.D

Acq: 15 May 2019 17:58

Tgt Ion: 97 Resp: 1186

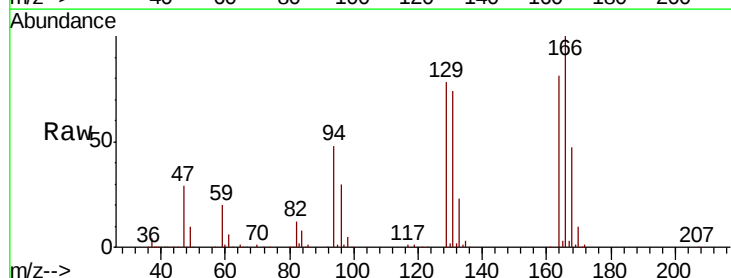
Ion Ratio Lower Upper

97 100

83 272.4 68.9 103.3#

85 41.4 43.8 65.6#

99 20.2 48.2 72.2#

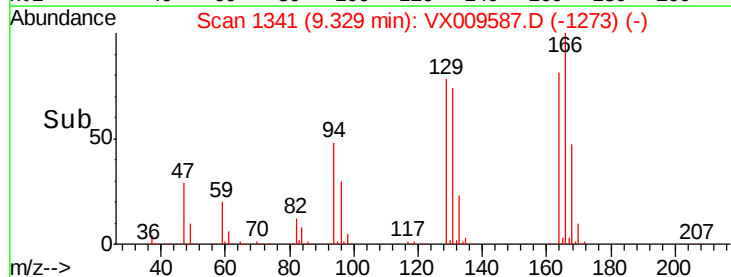
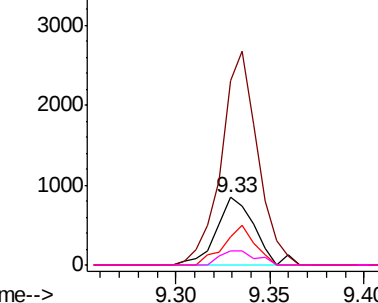


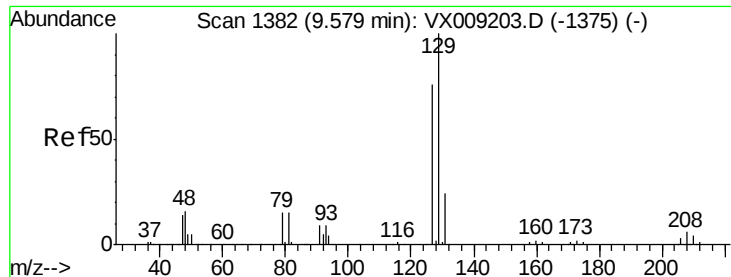
Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

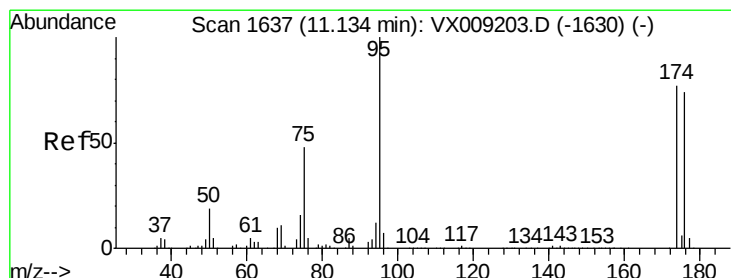
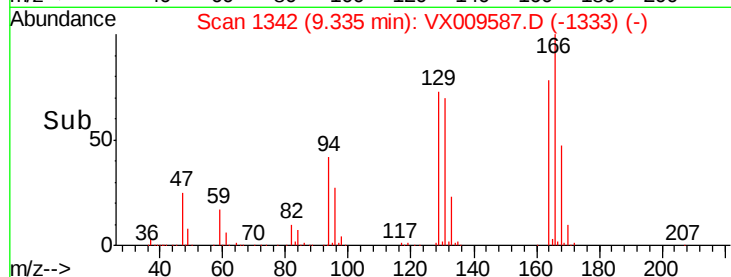
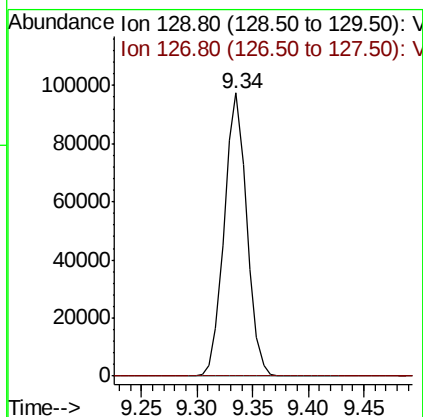
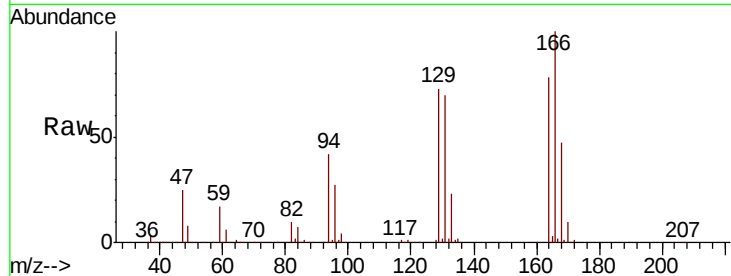




#60
 Dibromochloromethane
 Concen: 68.005 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX009587.D
 Acq: 15 May 2019 17:58

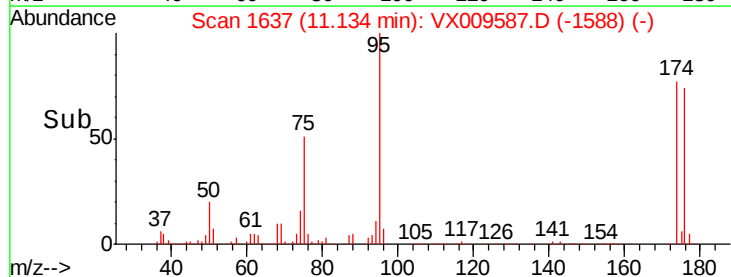
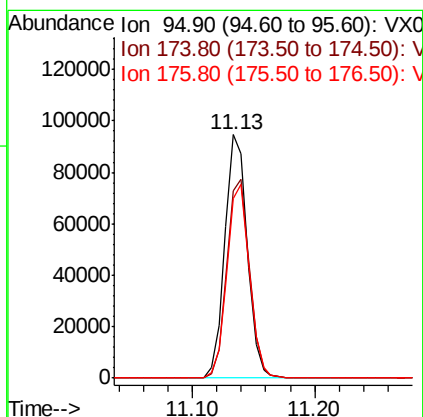
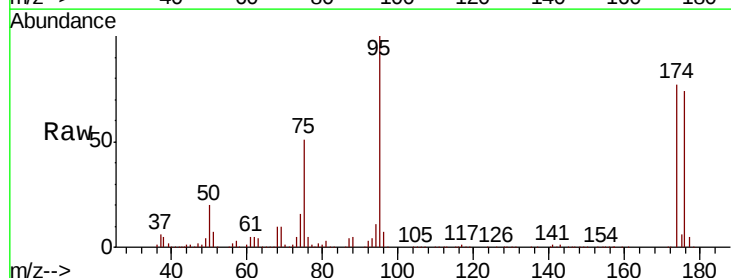
Instrument :
 MSVOA_X
 ClientSampleId :

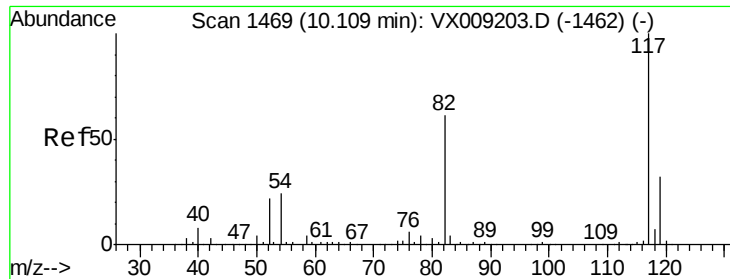
Tot Ion:129 Resp: 136554
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.4 115.1#



#62
 4-Bromofluorobenzene
 Concen: 45.165 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX009587.D
 Acq: 15 May 2019 17:58

Tgt Ion: 95 Resp: 120061
 Ion Ratio Lower Upper
 95 100
 174 82.5 0.0 161.6
 176 79.5 0.0 159.2

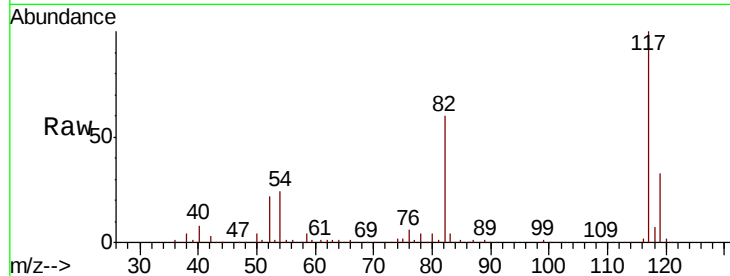




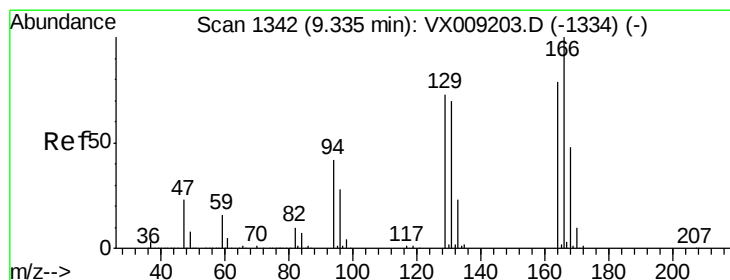
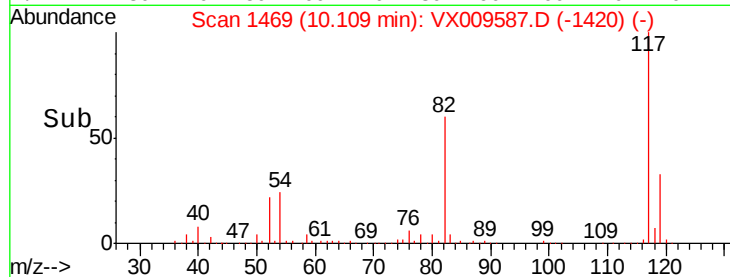
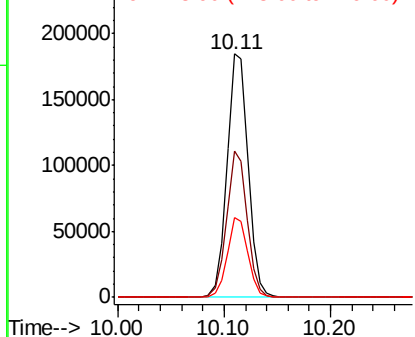
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009587.D
Acq: 15 May 2019 17:58

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 256620
Ion Ratio Lower Upper
117 100
82 60.0 48.8 73.2
119 32.6 25.8 38.6

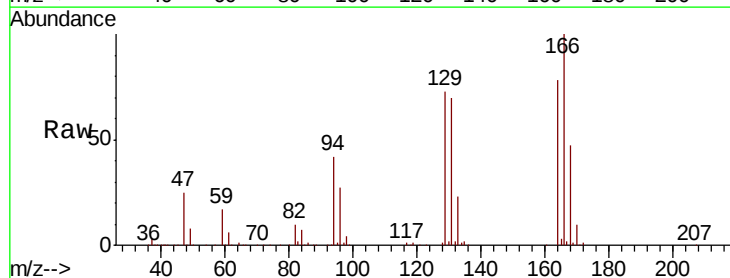


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

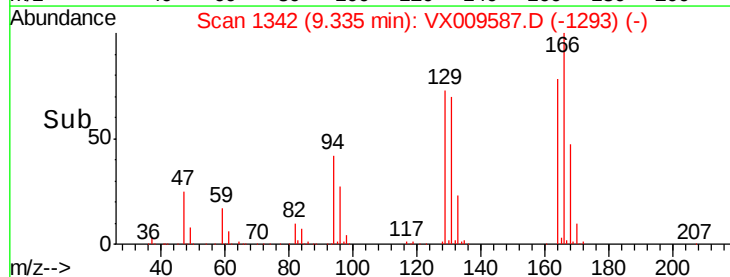
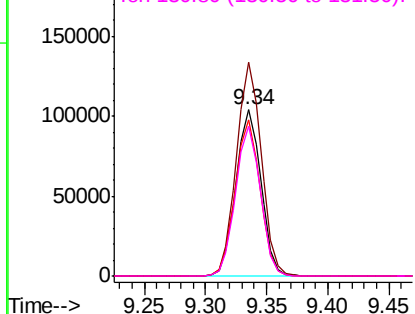


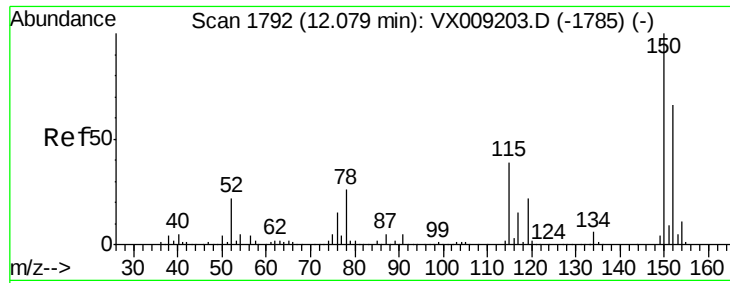
#64
Tetrachloroethene
Concen: 83.469 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009587.D
Acq: 15 May 2019 17:58

Tgt Ion:164 Resp: 146930
Ion Ratio Lower Upper
164 100
166 128.7 101.2 151.8
129 93.9 74.3 111.5
131 89.9 71.0 106.6



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: VX009587.D

Acq: 15 May 2019 17:58

Instrument :

MSVOA_X

ClientSampleId :

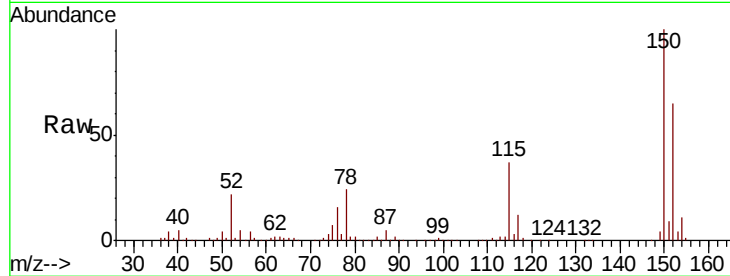
Tot Ion:152 Resp: 108506

Ion Ratio Lower Upper

152 100

115 59.0 41.2 123.6

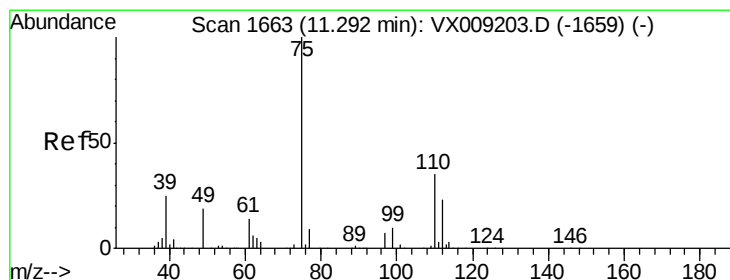
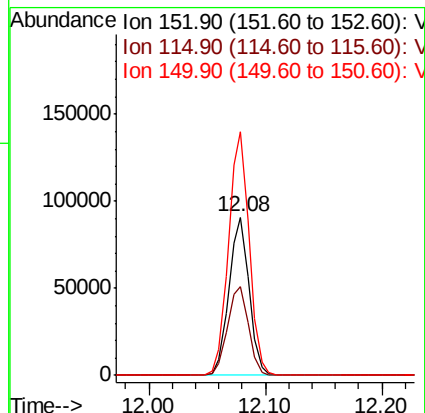
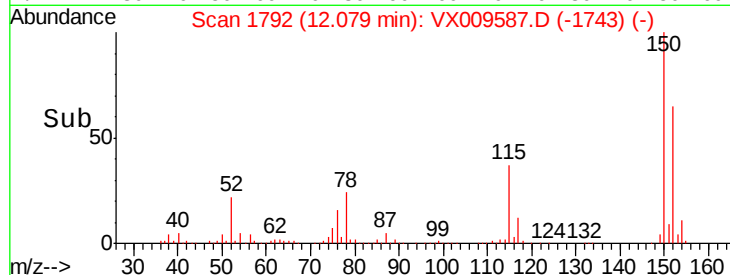
150 157.3 0.0 346.4



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: 24.453 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009587.D

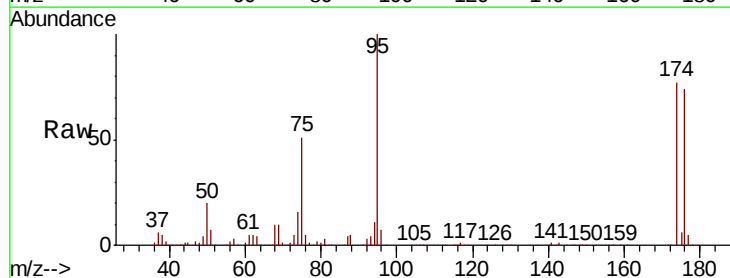
Acq: 15 May 2019 17:58

Tgt Ion: 75 Resp: 61546

Ion Ratio Lower Upper

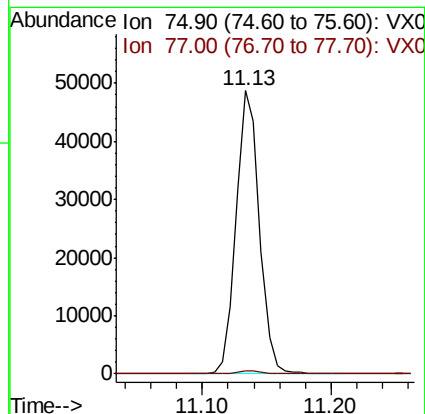
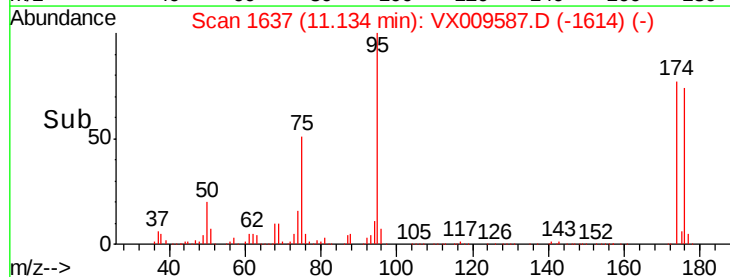
75 100

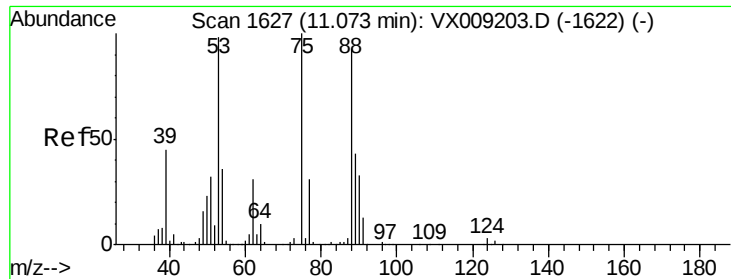
77 1.3 22.1 66.1#



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: 62.565 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009587.D

Acq: 15 May 2019 17:58

Instrument :

MSVOA_X

ClientSampleId :

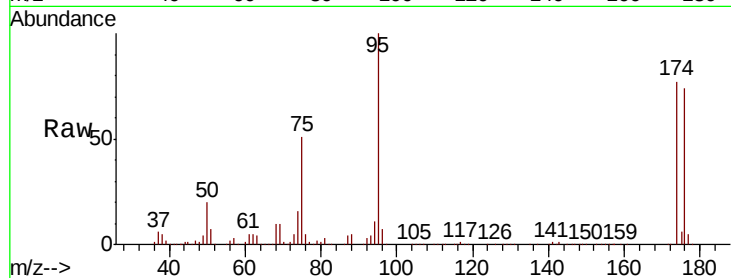
Tot Ion: 75 Resp: 61546

Ion Ratio Lower Upper

75 100

53 0.0 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

