

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052019\
 Data File : VX009738.D
 Acq On : 20 May 2019 19:57
 Operator : JC/SP
 Sample : K2910-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0236

Quant Time: May 21 07:43:13 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	170578	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	273594	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	237488	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	97521	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	115643	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
35) Dibromofluoromethane	5.50	113	83989	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
50) Toluene-d8	8.71	98	341792	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
62) 4-Bromofluorobenzene	11.13	95	109819	43.53	ug/l	0.00
Spiked Amount			Recovery	=	87.06%	

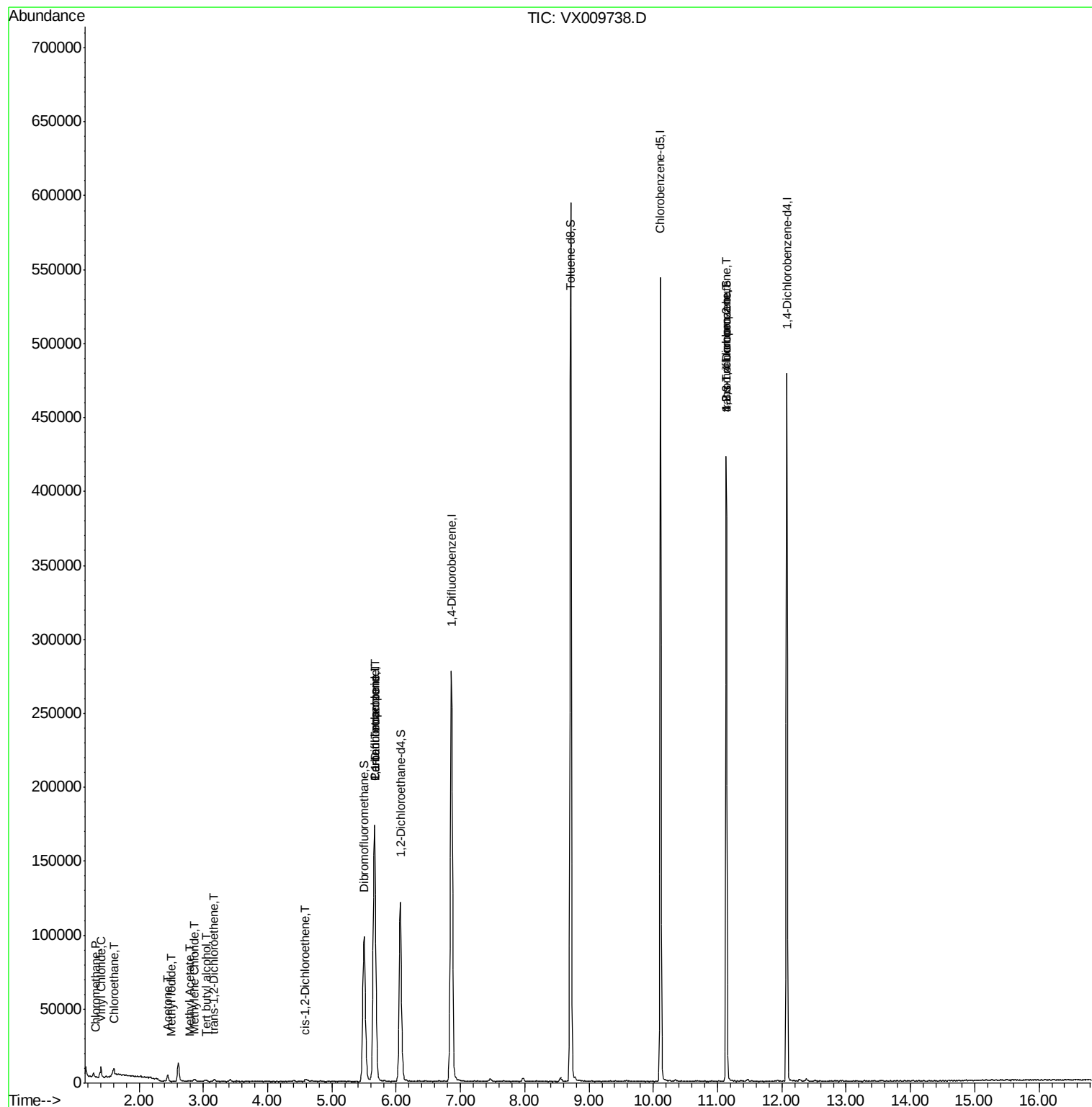
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	453	0.211	ug/l	96
4) Vinyl Chloride	1.41	62	4459	2.131	ug/l	98
6) Chloroethane	1.62	64	668	0.497	ug/l #	51
10) Methyl Iodide	2.50	142	19	4.603	ug/l #	1
11) Tert butyl alcohol	3.04	59	790	1.466	ug/l #	89
16) Acetone	2.45	43	4596	3.676	ug/l	96
18) Methyl Acetate	2.79	43	678	0.228	ug/l #	62
20) Methylene Chloride	2.86	84	500	0.247	ug/l #	87
21) trans-1,2-Dichloroethene	3.17	96	427	0.246	ug/l #	78
27) cis-1,2-Dichloroethene	4.59	96	655	0.316	ug/l	71
28) Bromochloromethane	5.08	49	20	Below Cal	#	20
36) 1,1-Dichloropropene	5.67	75	13364	5.256	ug/l #	50
38) Carbon Tetrachloride	5.67	117	15867	6.869	ug/l #	15
76) 1,2,3-Trichloropropane	11.13	75	56688	25.060	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	56688	64.118	ug/l #	10

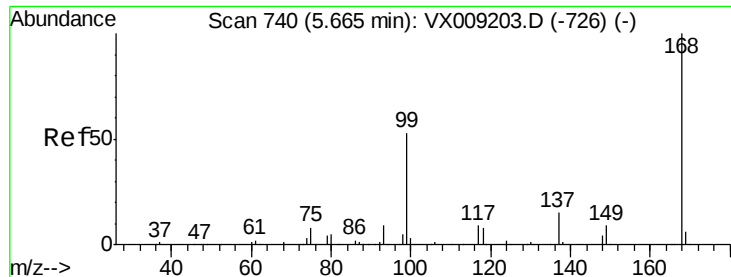
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 21 07:43:13 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
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: VX009738.D

Acq: 20 May 2019 19:57

Instrument :

MSVOA_X

ClientSampleId :

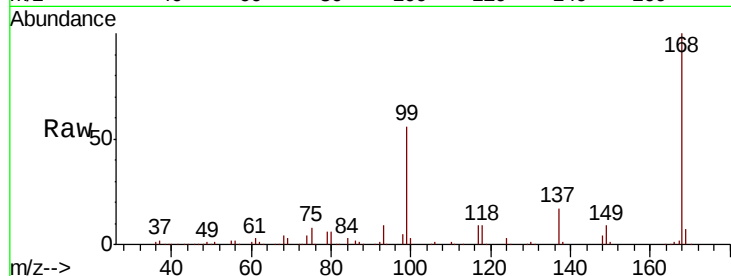
S73-0236

Tot Ion:168 Resp: 170578

Ion Ratio Lower Upper

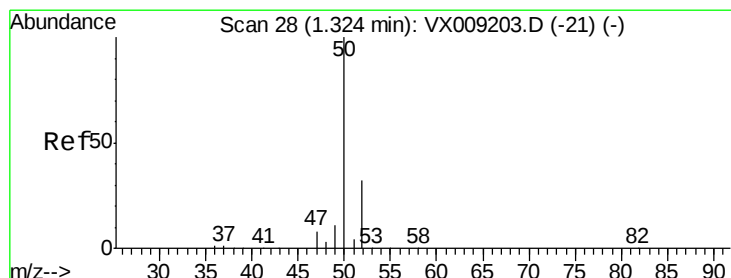
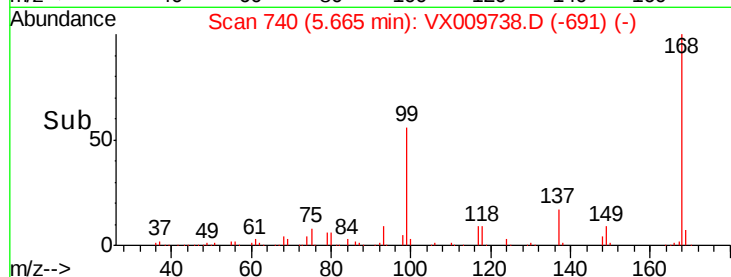
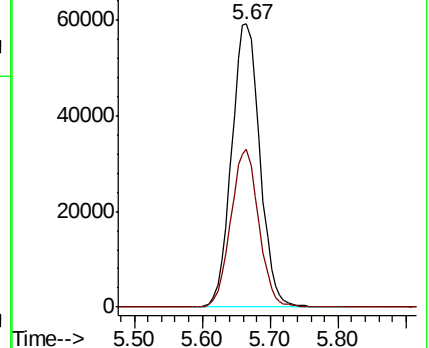
168 100

99 55.8 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.211 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009738.D

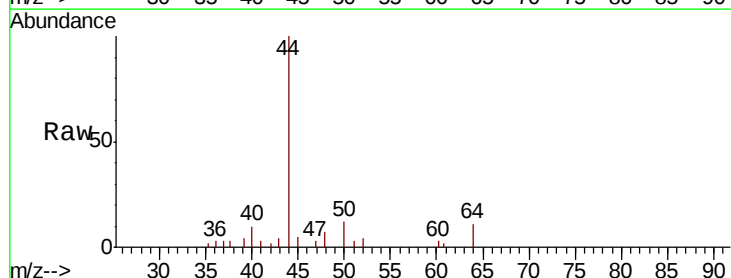
Acq: 20 May 2019 19:57

Tgt Ion: 50 Resp: 453

Ion Ratio Lower Upper

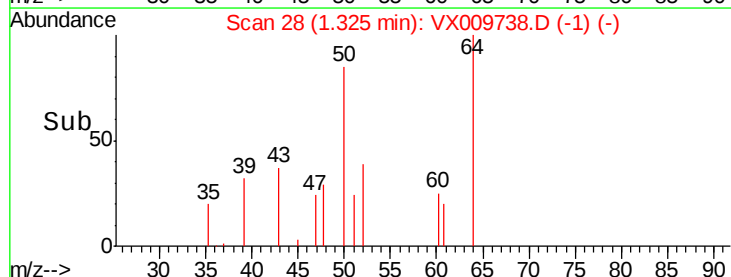
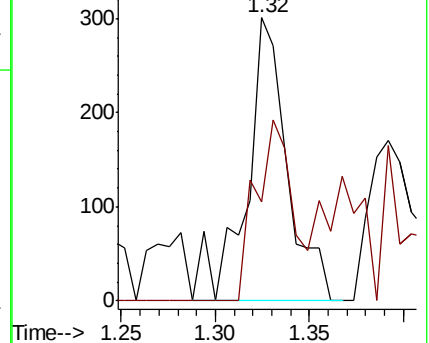
50 100

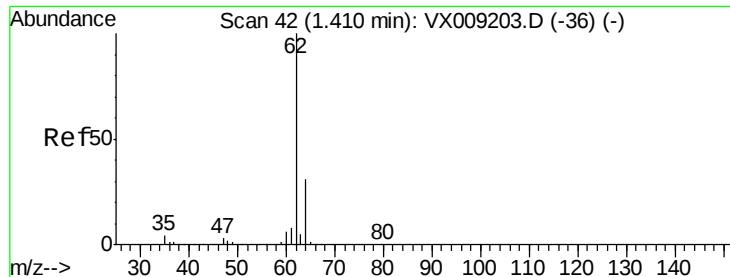
52 34.9 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 2.131 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009738.D

Acq: 20 May 2019 19:57

Instrument :

MSVOA_X

ClientSampleId :

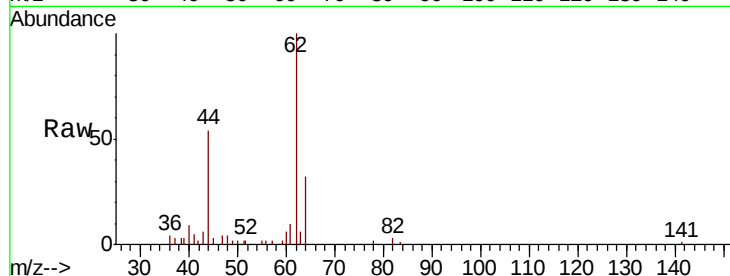
S73-0236

Tot Ion: 62 Resp: 4459

Ion Ratio Lower Upper

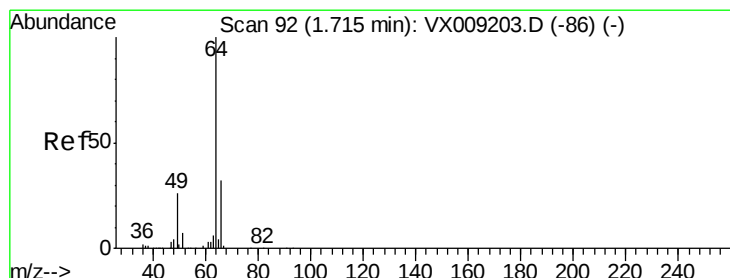
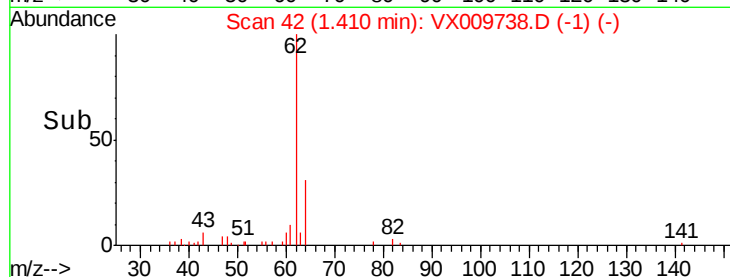
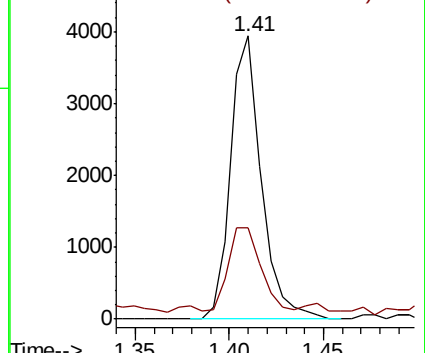
62 100

64 29.5 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#6

Chloroethane

Concen: 0.497 ug/l

RT: 1.62 min Scan# 76

Delta R.T. -0.10 min

Lab File: VX009738.D

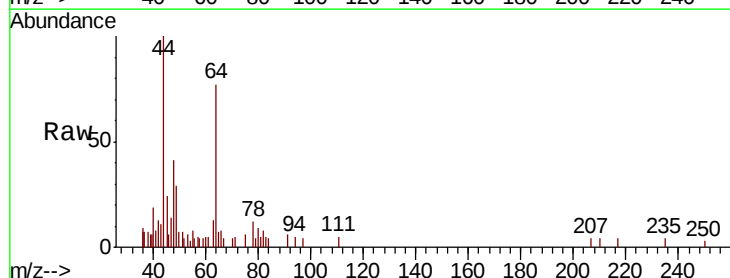
Acq: 20 May 2019 19:57

Tgt Ion: 64 Resp: 668

Ion Ratio Lower Upper

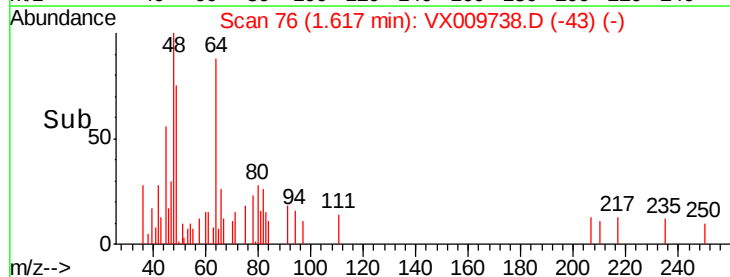
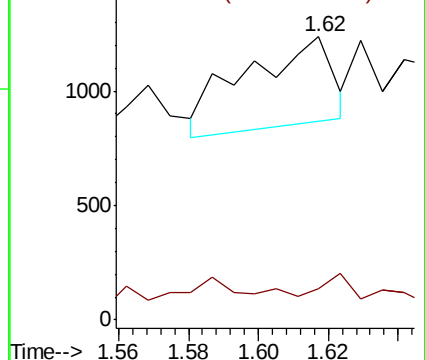
64 100

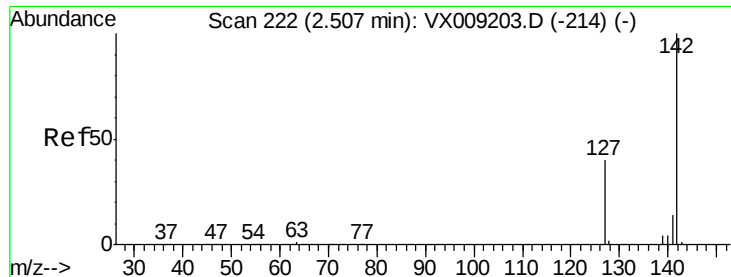
66 4.5 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

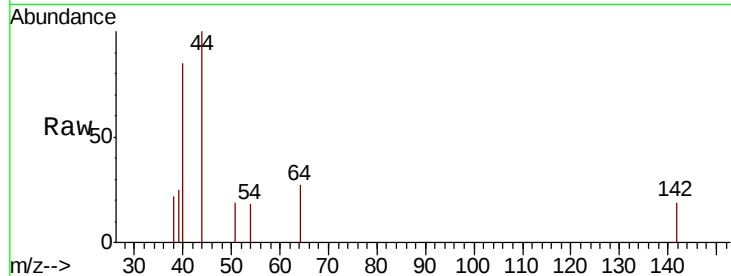




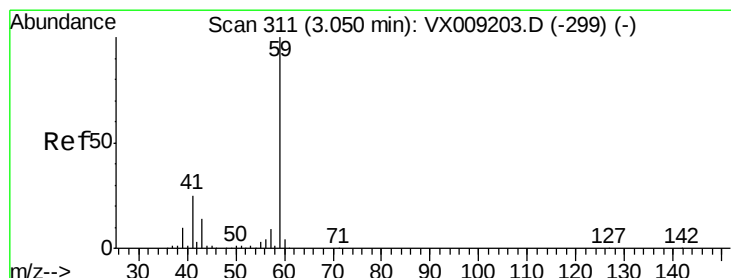
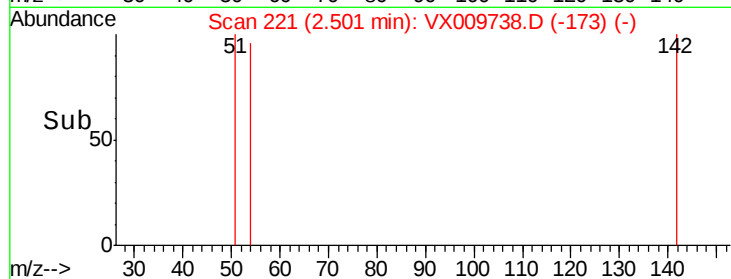
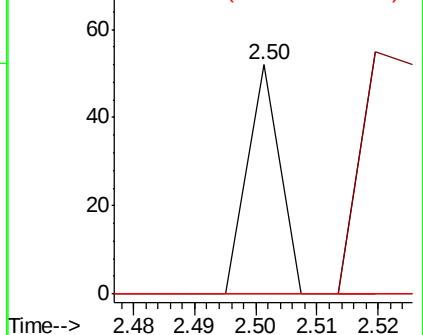
#10
Methvl Iodide
Concen: 4.603 ug/l
RT: 2.50 min Scan# 221
Delta R.T. -0.01 min
Lab File: VX009738.D
Acq: 20 May 2019 19:57

Instrument :
MSVOA_X
ClientSampleId :
S73-0236

Tot Ion:142 Resp: 19
Ion Ratio Lower Upper
142 100
127 205.3 32.7 49.1#
141 0.0 11.5 17.3#

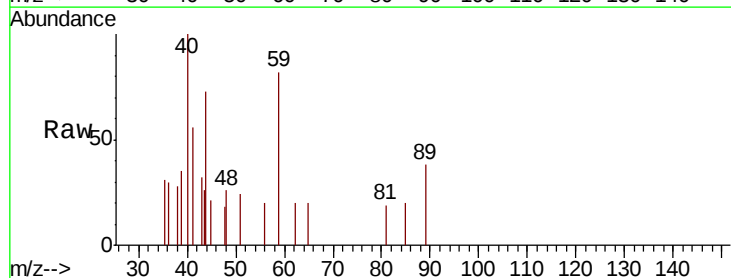


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

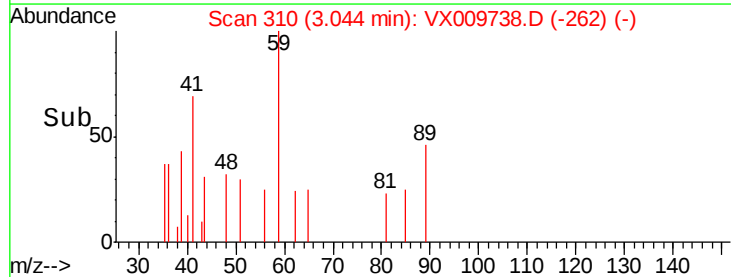
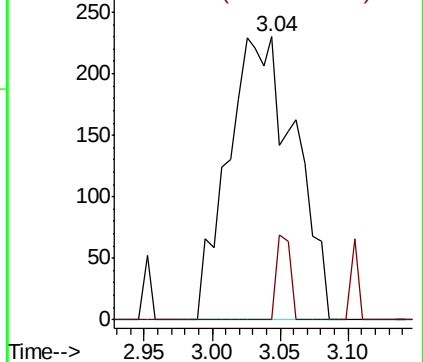


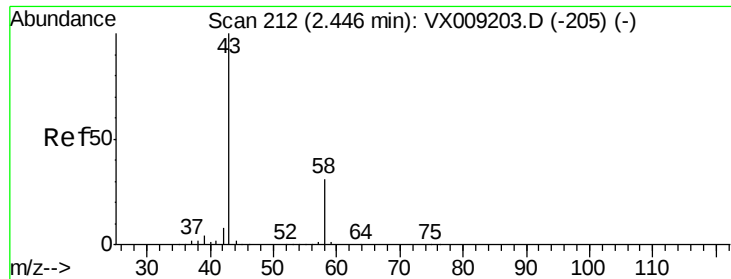
#11
Tert butyl alcohol
Concen: 1.466 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX009738.D
Acq: 20 May 2019 19:57

Tgt Ion: 59 Resp: 790
Ion Ratio Lower Upper
59 100
57 6.2 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: 3.676 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009738.D

Acq: 20 May 2019 19:57

Instrument :

MSVOA_X

ClientSampleId :

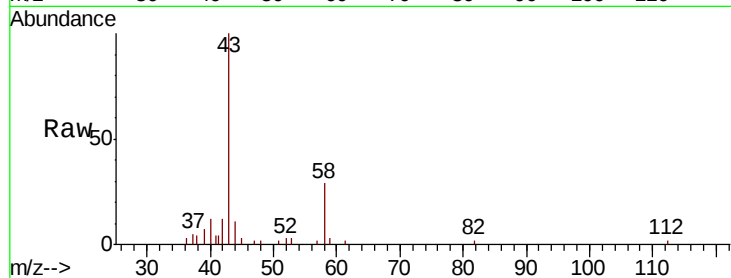
S73-0236

Tot Ion: 43 Resp: 4596

Ion Ratio Lower Upper

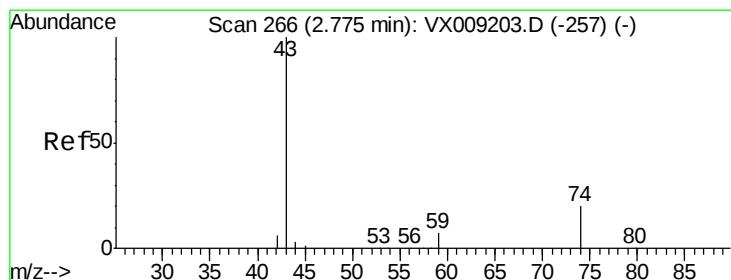
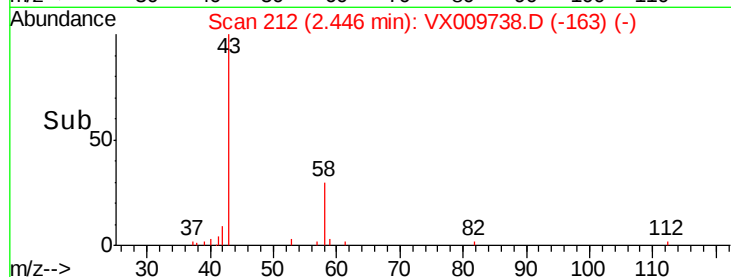
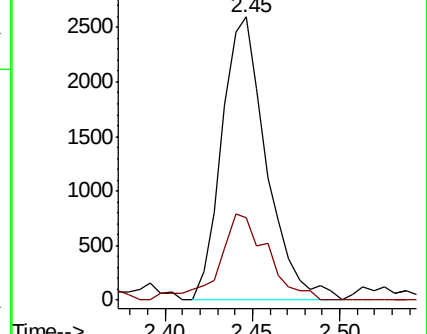
43 100

58 28.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.228 ug/l

RT: 2.79 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX009738.D

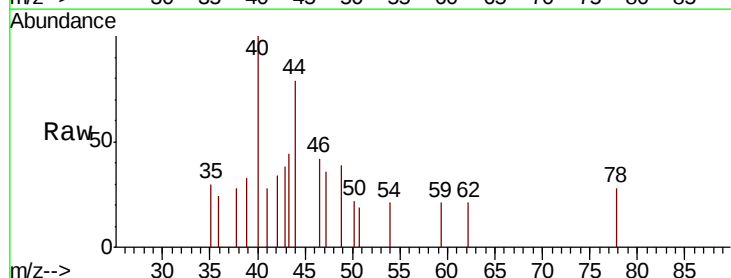
Acq: 20 May 2019 19:57

Tgt Ion: 43 Resp: 678

Ion Ratio Lower Upper

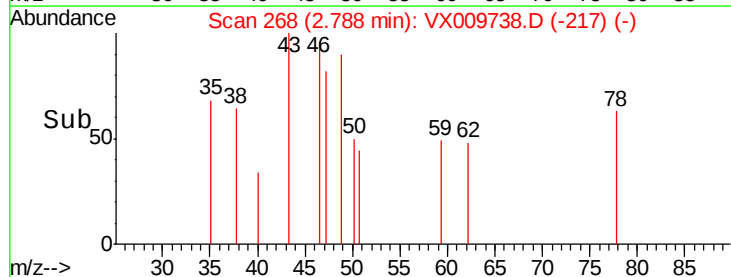
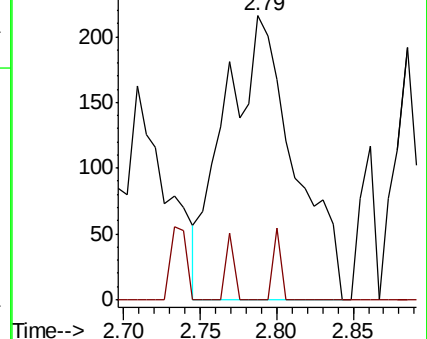
43 100

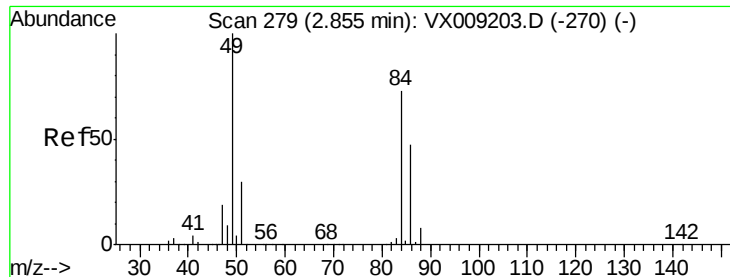
74 2.9 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: 0.247 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009738.D

Acq: 20 May 2019 19:57

Instrument :

MSVOA_X

ClientSampled :

S73-0236

Tot Ion: 84 Resp: 500

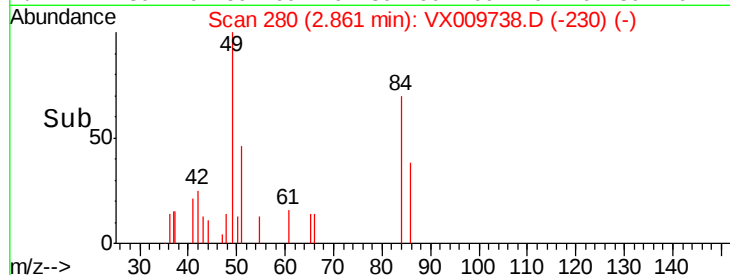
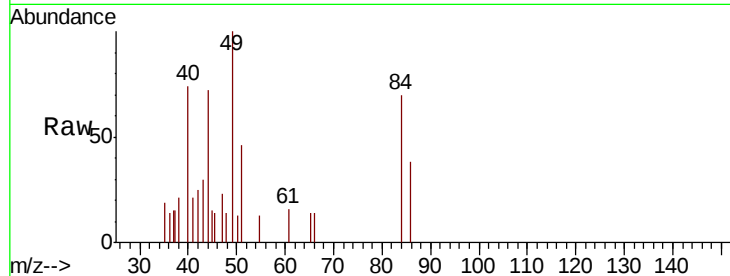
Ion Ratio Lower Upper

84 100

49 143.8 109.9 164.9

51 65.4 32.7 49.1#

86 55.1 52.0 78.0

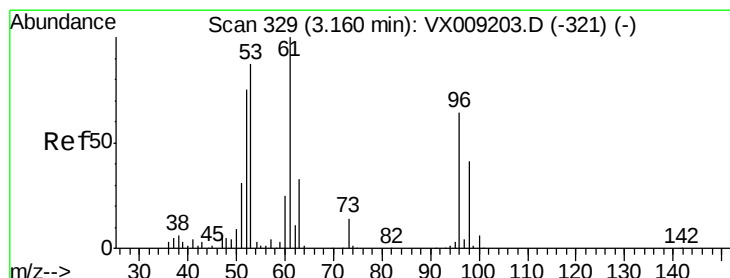
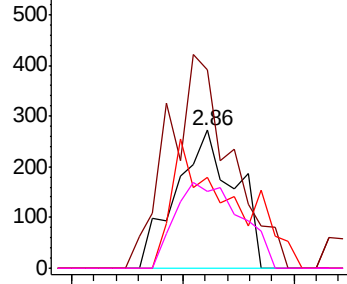


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#21

trans-1,2-Dichloroethene

Concen: 0.246 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009738.D

Acq: 20 May 2019 19:57

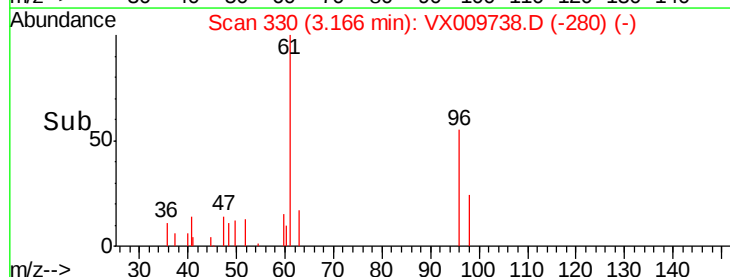
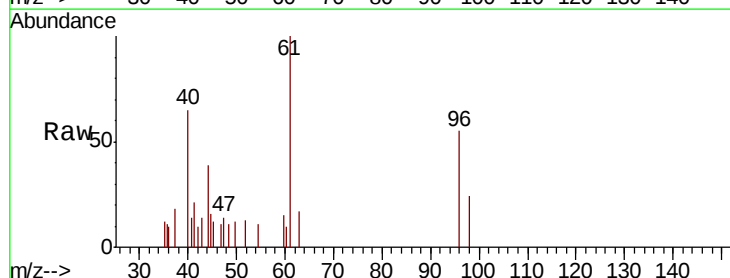
Tgt Ion: 96 Resp: 427

Ion Ratio Lower Upper

96 100

61 183.0 124.5 186.7

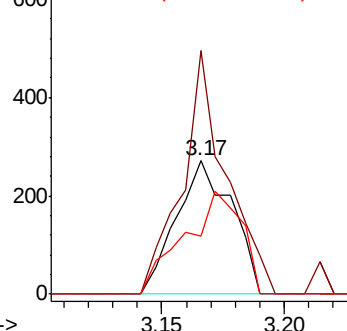
98 43.5 50.4 75.6#

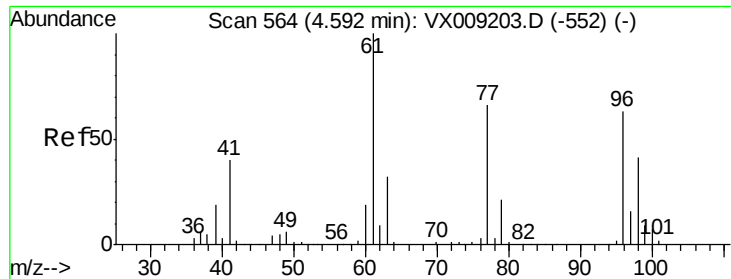


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



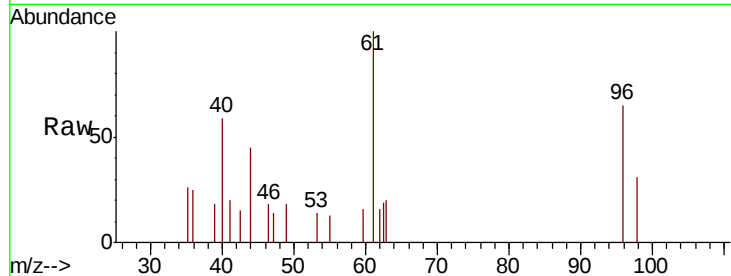


#27

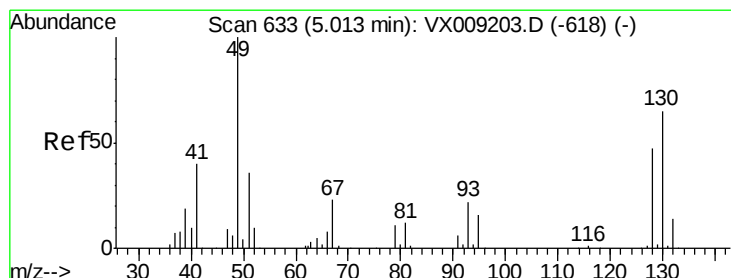
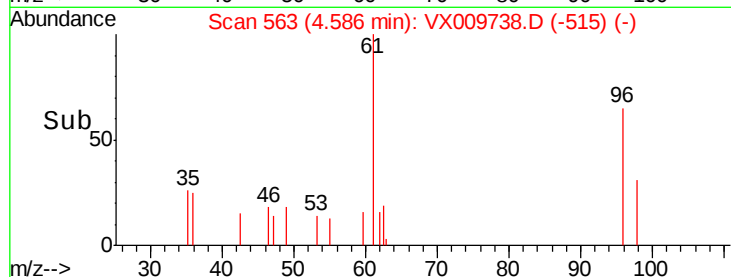
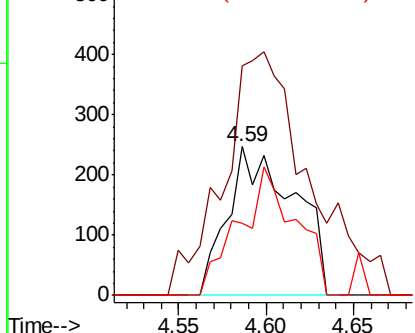
cis-1,2-Dichloroethene
 Concen: 0.316 ug/l
 RT: 4.59 min Scan# 563
 Delta R.T. -0.01 min
 Lab File: VX009738.D
 Acq: 20 May 2019 19:57

Instrument :
 MSVOA_X
 ClientSampled :
 S73-0236

Tot Ion: 96 Resp: 655
 Ion Ratio Lower Upper
 96 100
 61 210.4 0.0 324.0
 98 74.0 0.0 130.4



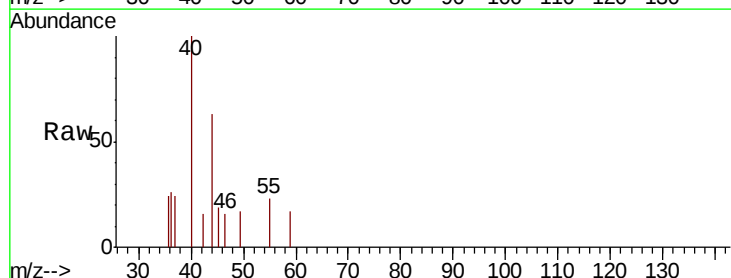
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



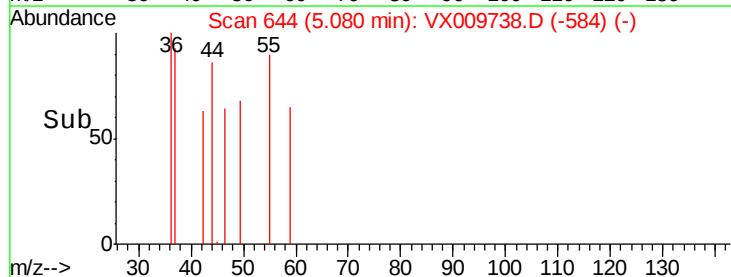
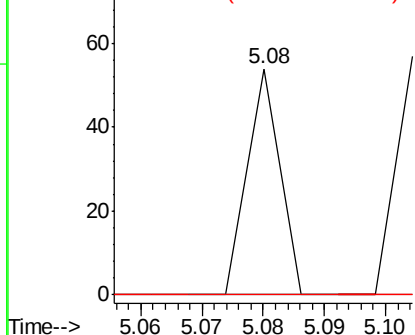
#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.08 min Scan# 644
 Delta R.T. 0.07 min
 Lab File: VX009738.D
 Acq: 20 May 2019 19:57

Tgt Ion: 49 Resp: 20
 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





#33

1,2-Dichloroethane-d4

Concen: 49.662 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009738.D

Acq: 20 May 2019 19:57

Instrument :

MSVOA_X

ClientSampleId :

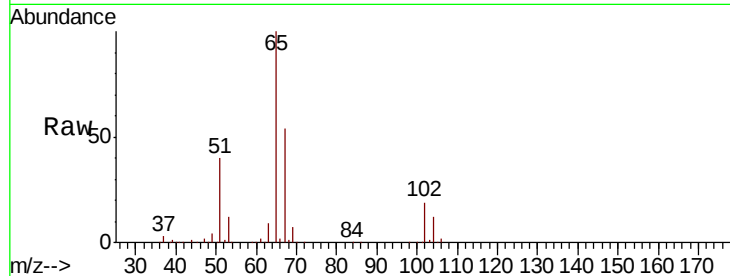
S73-0236

Tot Ion: 65 Resp: 115643

Ion Ratio Lower Upper

65 100

67 52.6 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

40000

30000

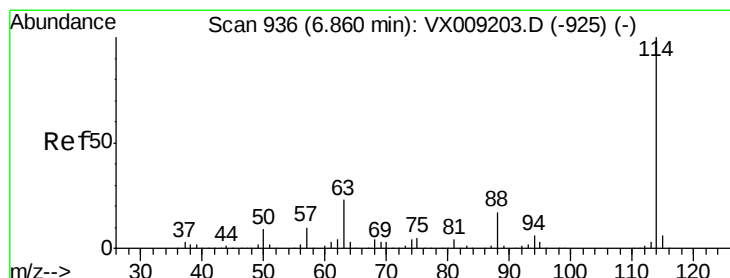
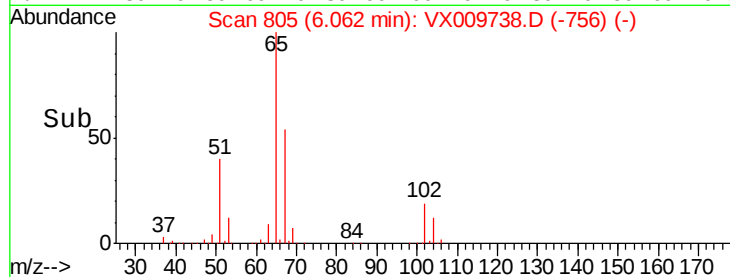
20000

10000

0

5.90 6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009738.D

Acq: 20 May 2019 19:57

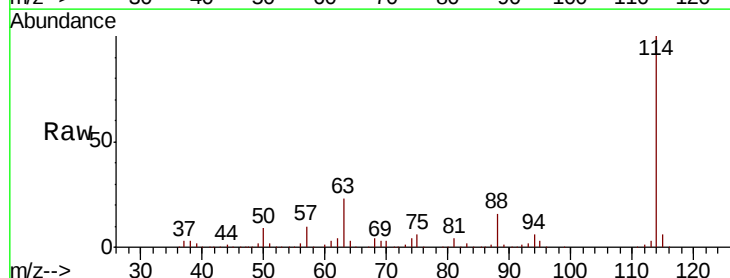
Tgt Ion: 114 Resp: 273594

Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.6

88 16.0 0.0 33.2



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

150000

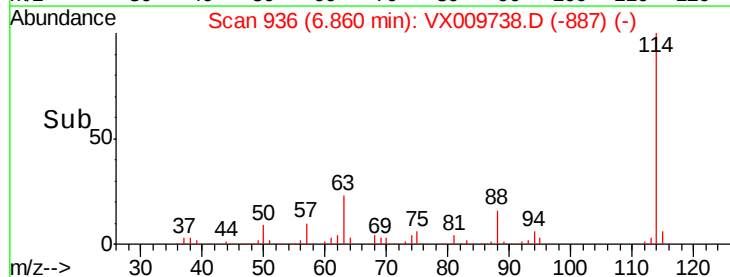
100000

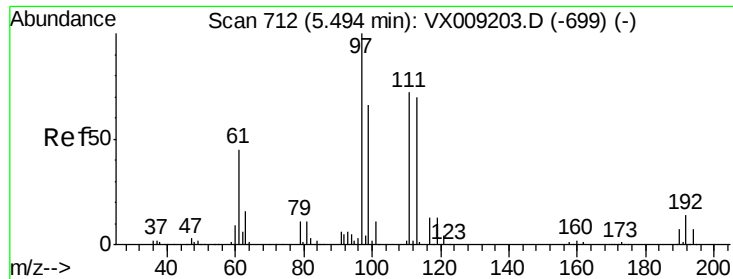
50000

0

6.70 6.80 6.90 7.00 7.10

Time-->

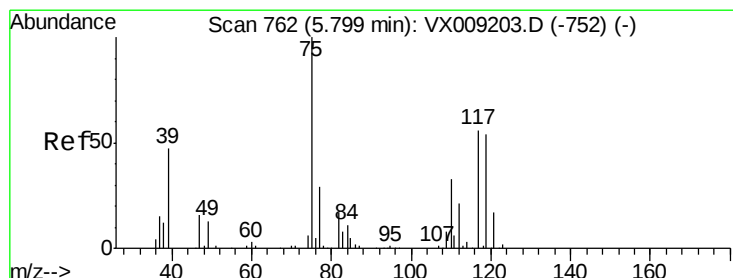
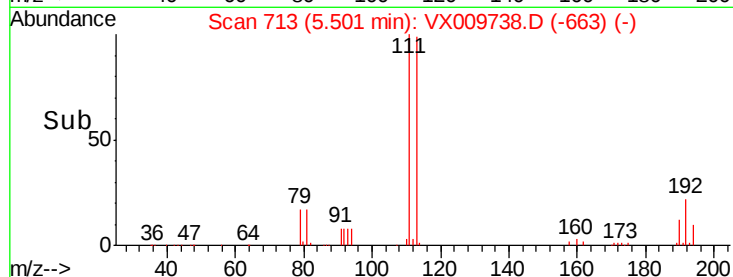
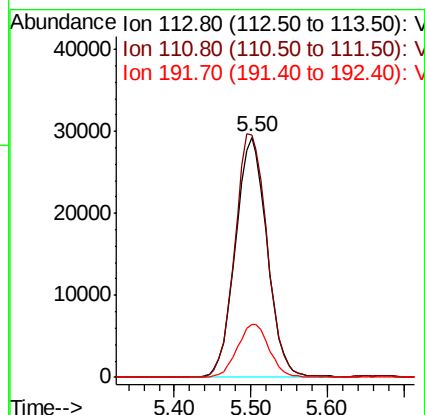
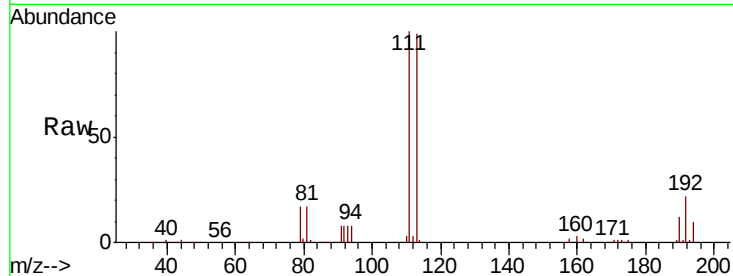




#35
 Dibromofluoromethane
 Concen: 48.833 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009738.D
 Acq: 20 May 2019 19:57

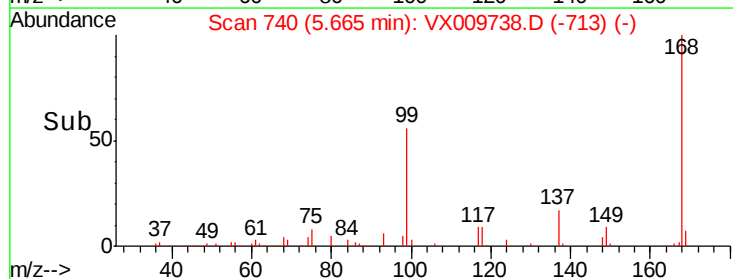
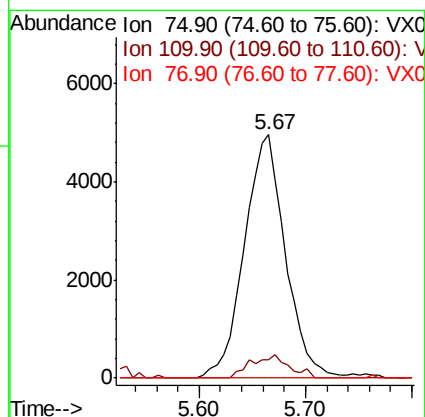
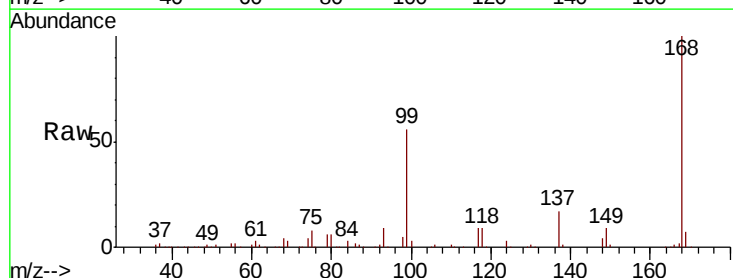
Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0236

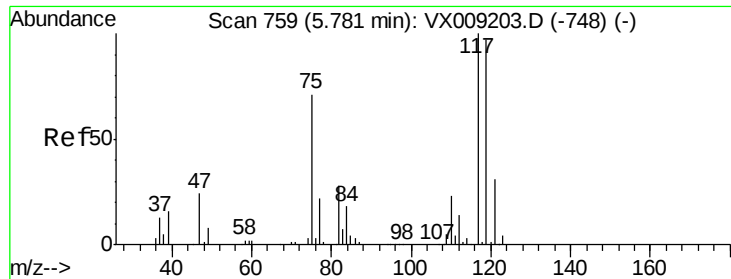
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.8	124.2
192	22.3	17.0	25.6



#36
 1,1-Dichloropropene
 Concen: 5.256 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009738.D
 Acq: 20 May 2019 19:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.9	50.6#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.869 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009738.D

Acq: 20 May 2019 19:57

Instrument :

MSVOA_X

ClientSampleId :

S73-0236

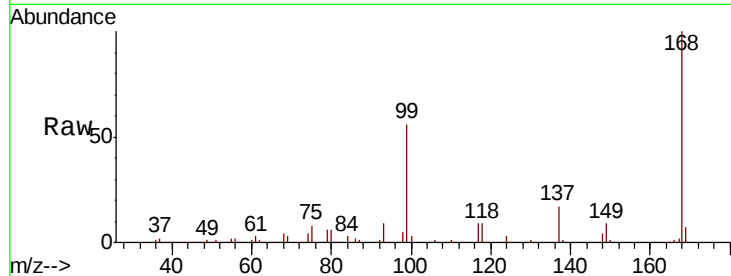
Tot Ion:117 Resp: 15867

Ion Ratio Lower Upper

117 100

119 4.8 77.5 116.3#

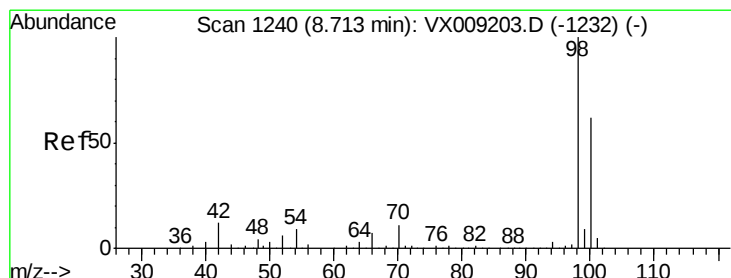
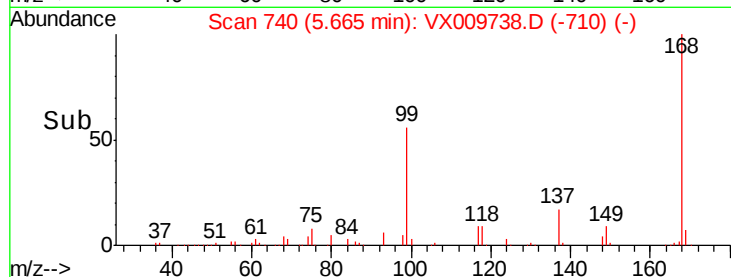
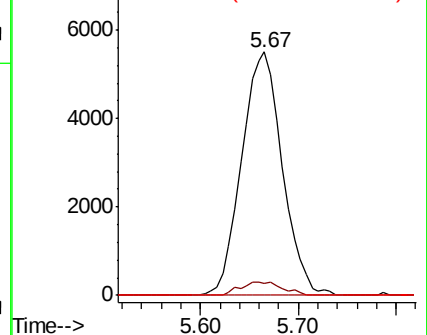
121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 49.223 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009738.D

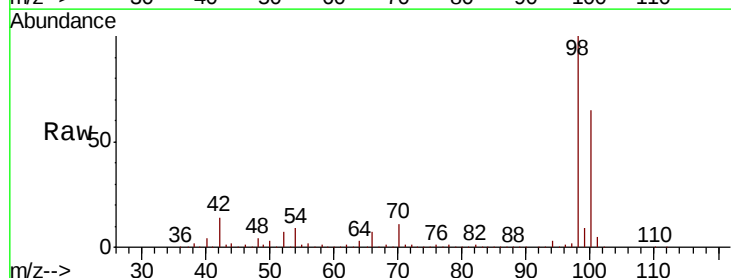
Acq: 20 May 2019 19:57

Tgt Ion: 98 Resp: 341792

Ion Ratio Lower Upper

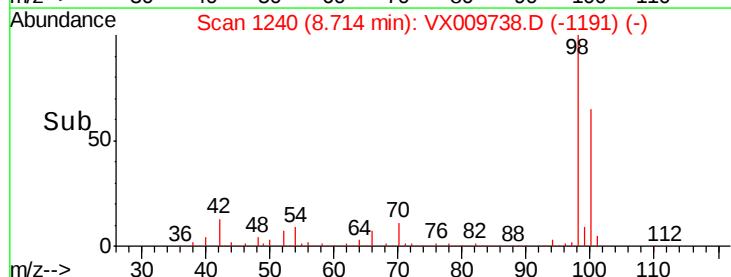
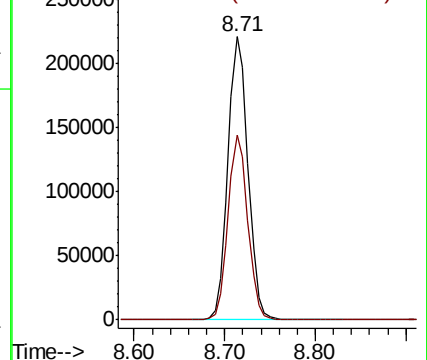
98 100

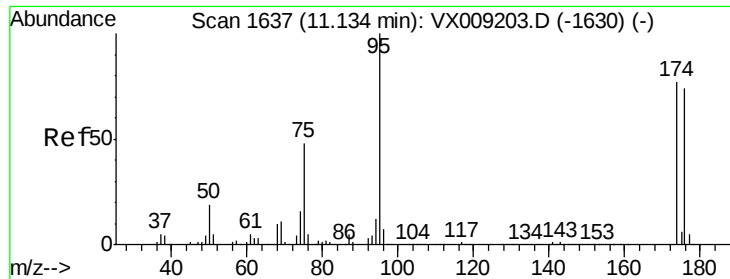
100 64.1 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 43.526 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009738.D

Acq: 20 May 2019 19:57

Instrument :

MSVOA_X

ClientSampleId :

S73-0236

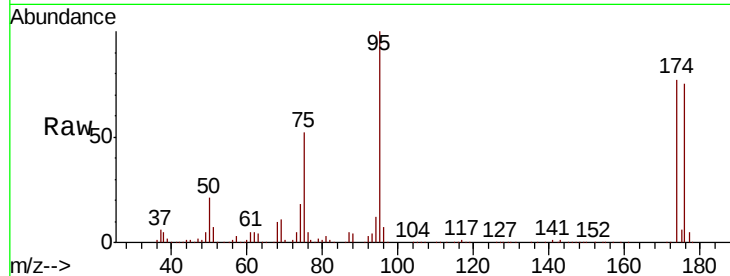
Tot Ion: 95 Resp: 109819

Ion Ratio Lower Upper

95 100

174 81.9 0.0 161.6

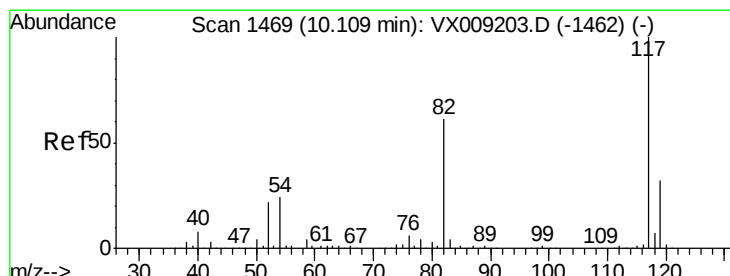
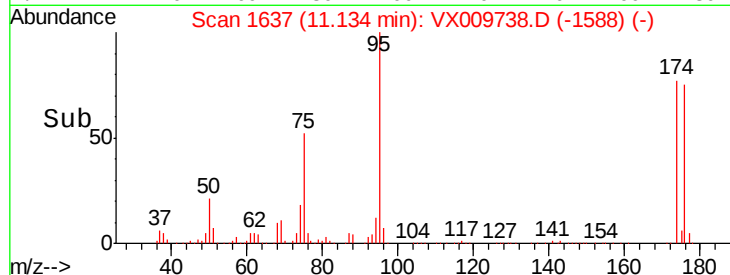
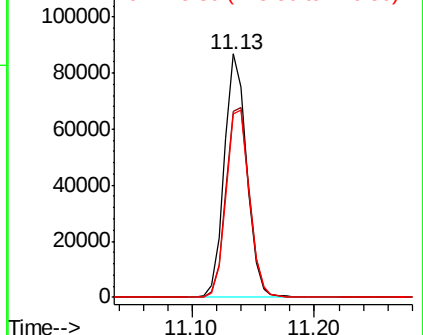
176 79.6 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009738.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009738.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009738.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009738.D

Acq: 20 May 2019 19:57

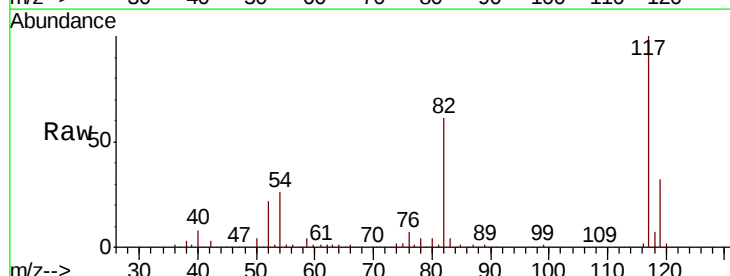
Tgt Ion: 117 Resp: 237488

Ion Ratio Lower Upper

117 100

82 60.9 48.8 73.2

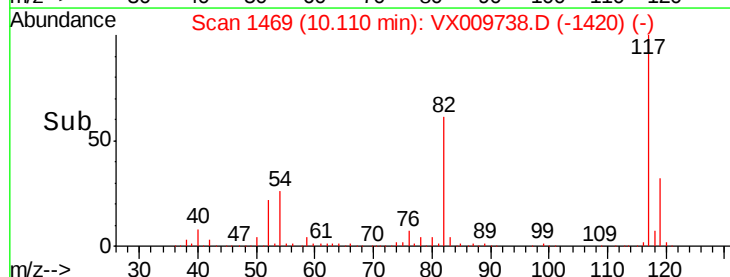
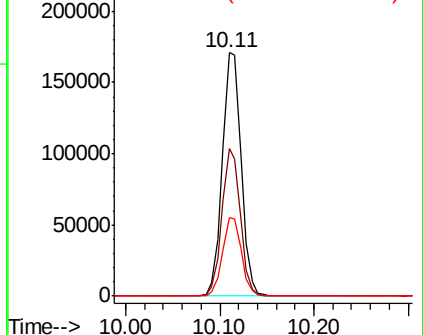
119 32.2 25.8 38.6

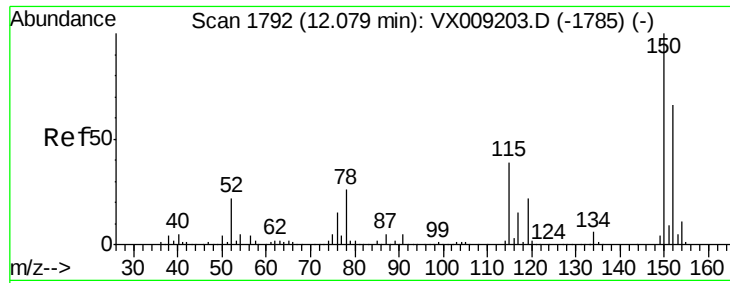


Abundance Ion 116.90 (116.60 to 117.60): VX009738.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009738.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009738.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009738.D

Acq: 20 May 2019 19:57

Instrument :

MSVOA_X

ClientSampleId :

S73-0236

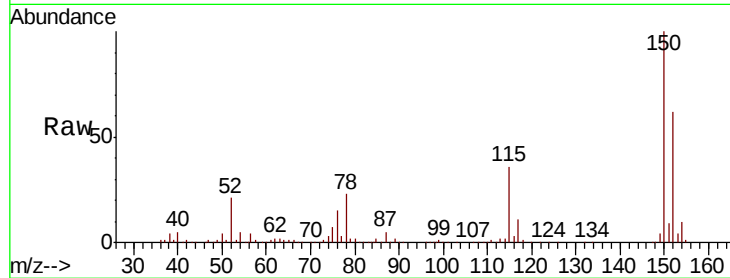
Tot Ion:152 Resp: 97521

Ion Ratio Lower Upper

152 100

115 59.0 41.2 123.6

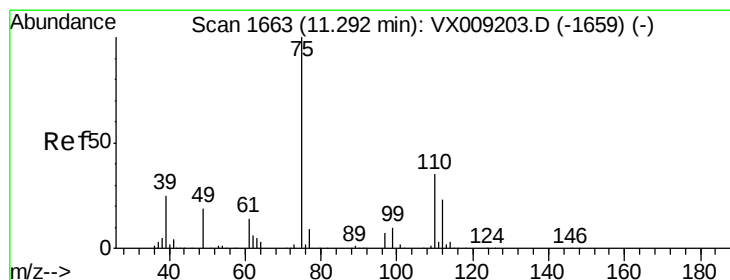
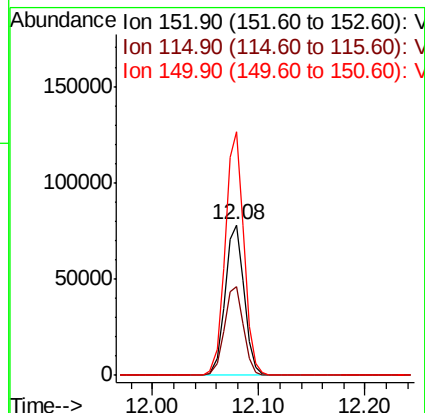
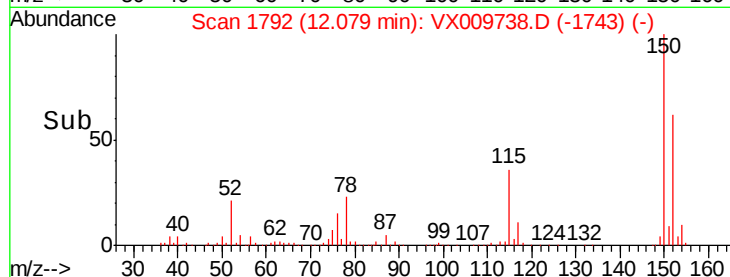
150 158.8 0.0 346.4



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: 25.060 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009738.D

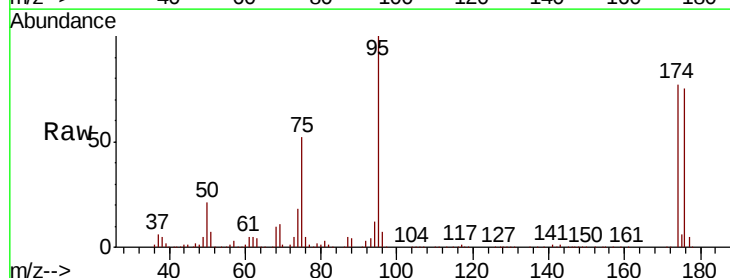
Acq: 20 May 2019 19:57

Tgt Ion: 75 Resp: 56688

Ion Ratio Lower Upper

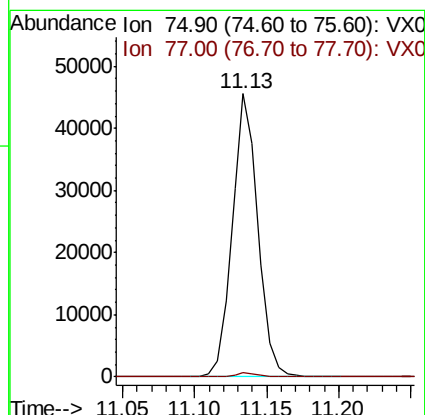
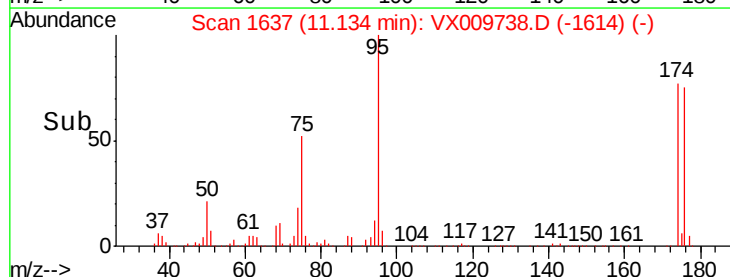
75 100

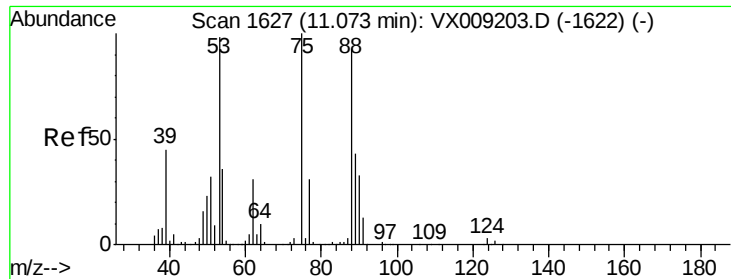
77 1.6 22.1 66.1#



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: 64.118 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009738.D

Acq: 20 May 2019 19:57

Instrument :

MSVOA_X

ClientSampleId :

S73-0236

Tot Ion: 75 Resp: 56688

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

