

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071719\
 Data File : VX010928.D
 Acq On : 17 Jul 2019 12:13
 Operator : JC/SP
 Sample : K3834-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-9

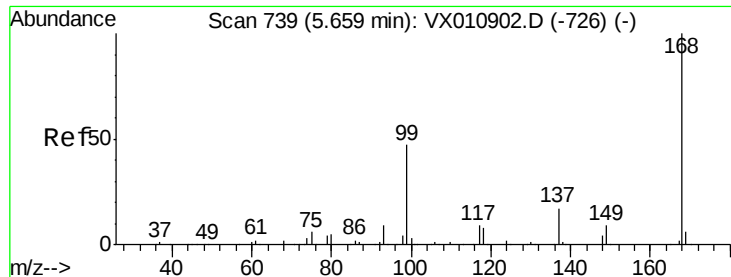
Quant Time: Jul 18 02:28:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	224582	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	352704	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	330764	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	152998	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	118944	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	
35) Dibromofluoromethane	5.50	113	109889	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
50) Toluene-d8	8.71	98	426153	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
62) 4-Bromofluorobenzene	11.13	95	147941	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	59	0.571	ug/l #	43
3) Chloromethane	1.33	50	1477	0.715	ug/l	90
5) Bromomethane	1.67	94	587	0.494	ug/l	97
6) Chloroethane	1.68	64	394	0.294	ug/l #	41
10) Methyl Iodide	2.53	142	731	0.274	ug/l #	87
11) Tert butyl alcohol	3.03	59	6622	11.901	ug/l #	84
13) Acrolein	2.30	56	181	0.563	ug/l #	54
16) Acetone	2.45	43	9513	8.816	ug/l	91
17) Carbon Disulfide	2.57	76	1517	0.296	ug/l #	87
20) Methylene Chloride	2.85	84	630	0.275	ug/l #	75
25) 2-Butanone	4.68	43	1123	0.725	ug/l #	46
36) 1,1-Dichloropropene	5.66	75	15134	5.224	ug/l #	45
38) Carbon Tetrachloride	5.66	117	21057	6.975	ug/l #	18
49) 1,4-Dioxane	7.88	88	20	0.301	ug/l #	1
60) Dibromochloromethane	9.34	129	27	2.537	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	74580	27.013	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	74580	66.970	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

Instrument :

MSVOA_X

ClientSampled :

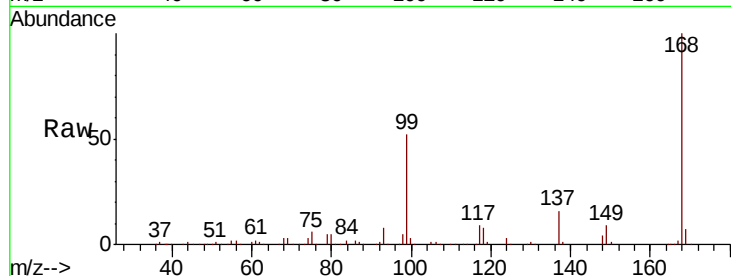
TW-9

Tot Ion:168 Resp: 224582

Ion Ratio Lower Upper

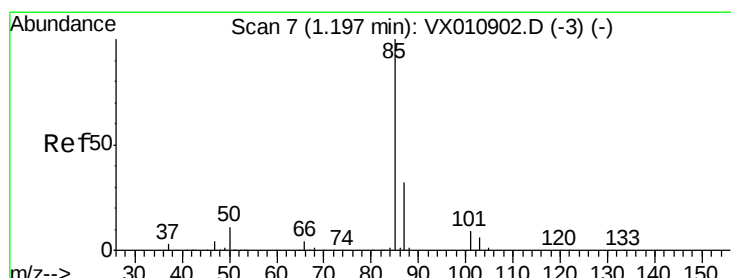
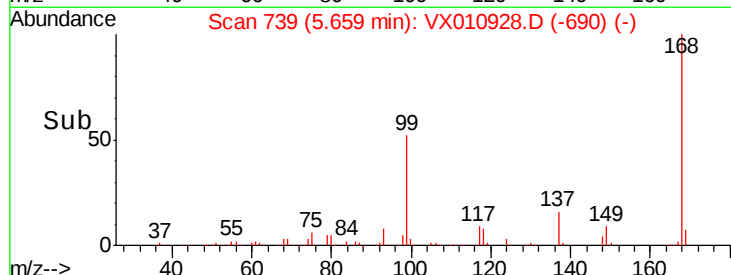
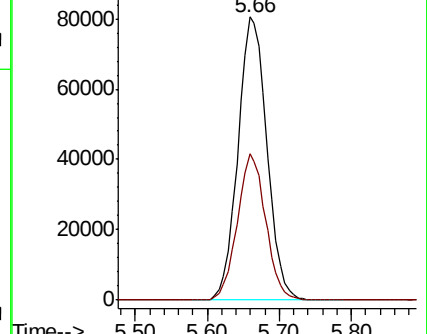
168 100

99 51.7 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.571 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX010928.D

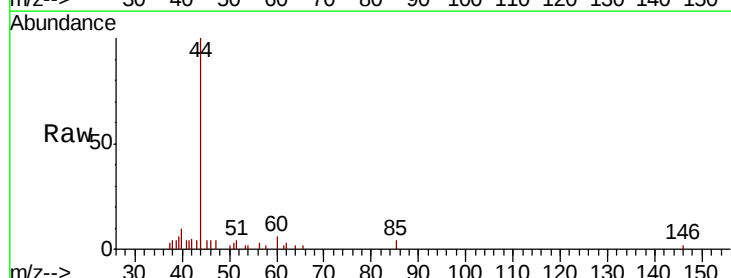
Acq: 17 Jul 2019 12:13

Tgt Ion: 85 Resp: 59

Ion Ratio Lower Upper

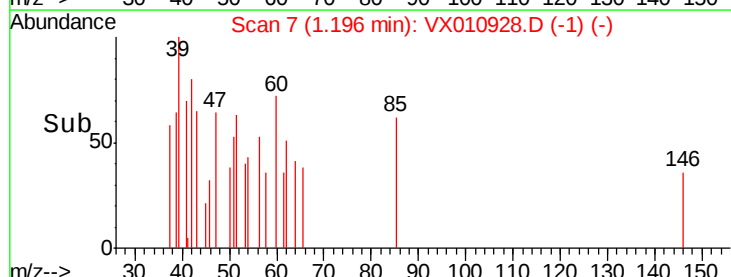
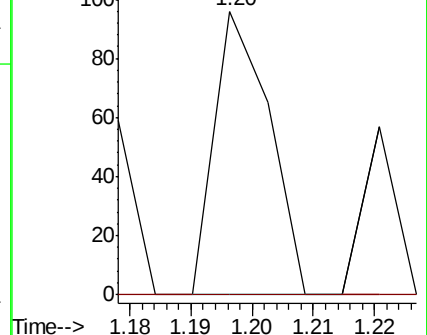
85 100

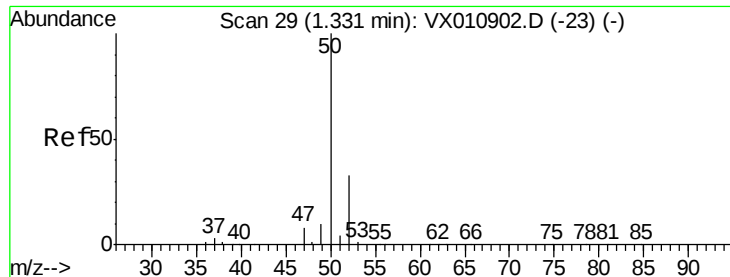
87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.715 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

Instrument :

MSVOA_X

ClientSampled :

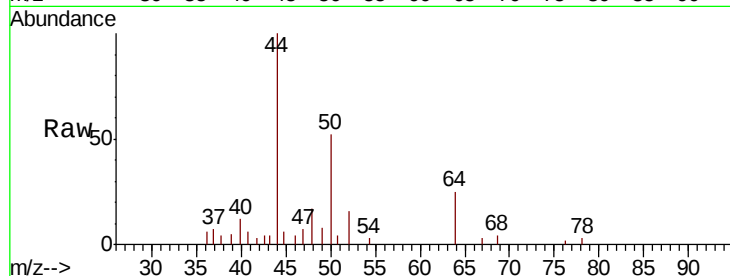
TW-9

Tot Ion: 50 Resp: 1477

Ion Ratio Lower Upper

50 100

52 27.6 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

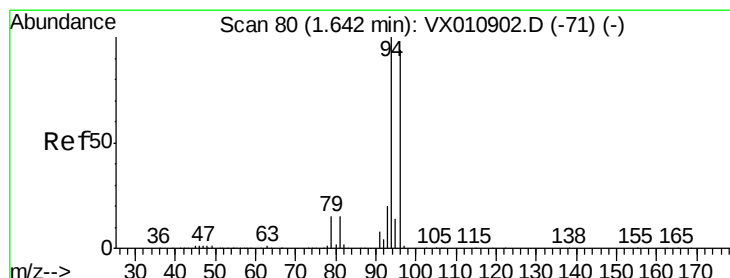
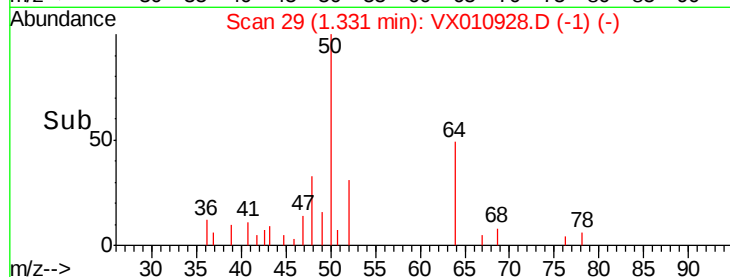
1.33

1000

500

0

Time-->



#5

Bromomethane

Concen: 0.494 ug/l

RT: 1.67 min Scan# 84

Delta R.T. 0.02 min

Lab File: VX010928.D

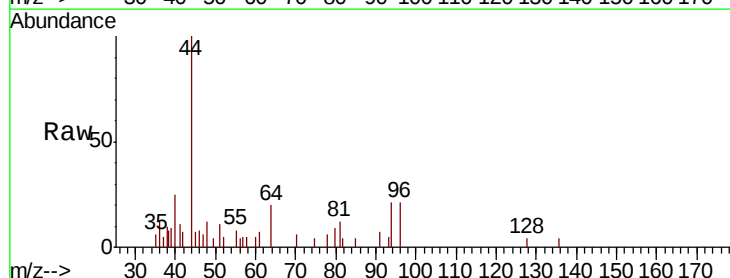
Acq: 17 Jul 2019 12:13

Tgt Ion: 94 Resp: 587

Ion Ratio Lower Upper

94 100

96 97.8 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.67

300

250

200

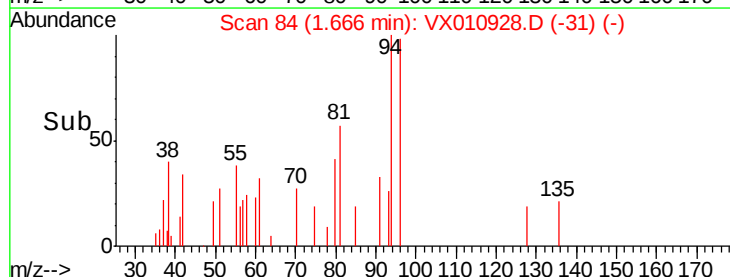
150

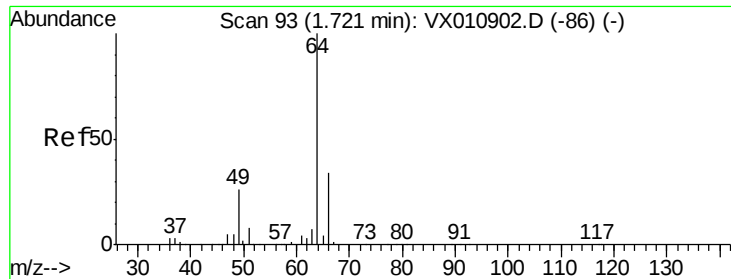
100

50

0

Time-->





#6

Chloroethane

Concen: 0.294 ug/l

RT: 1.68 min Scan# 87

Delta R.T. -0.04 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

Instrument :

MSVOA_X

ClientSampled :

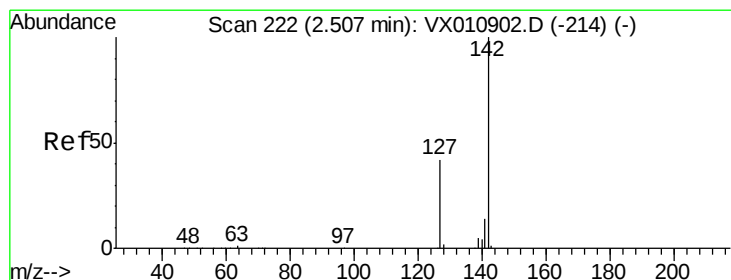
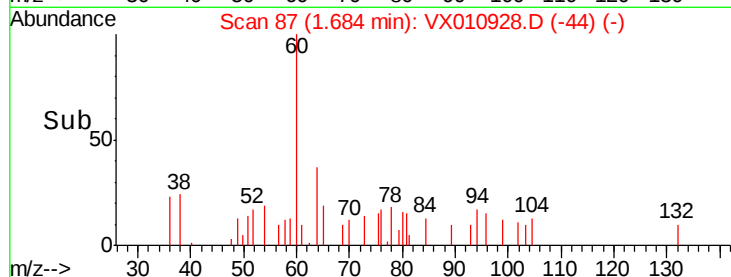
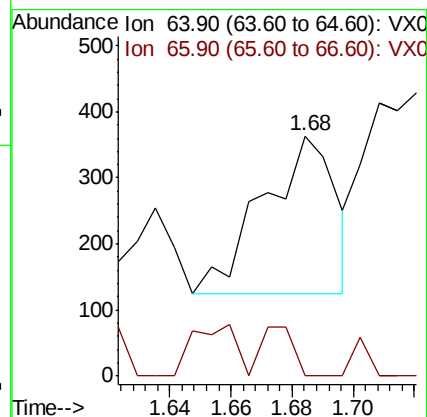
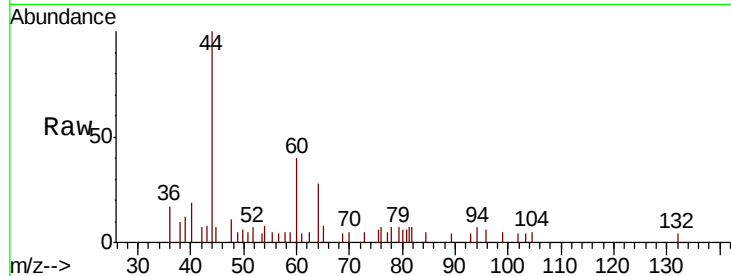
TW-9

Tot Ion: 64 Resp: 394

Ion Ratio Lower Upper

64 100

66 0.0 27.0 40.6#



#10

Methyl Iodide

Concen: 0.274 ug/l

RT: 2.53 min Scan# 226

Delta R.T. 0.02 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

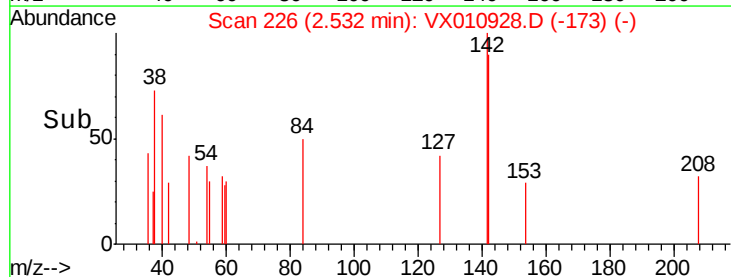
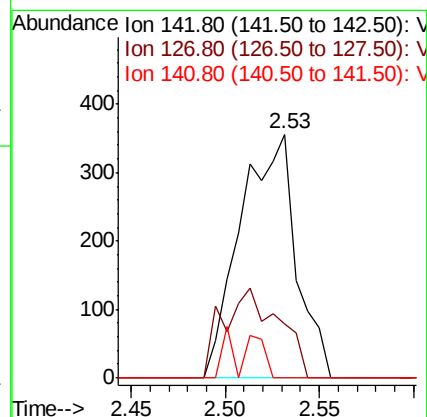
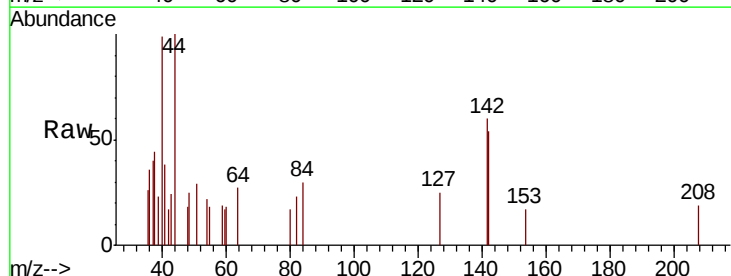
Tgt Ion: 142 Resp: 731

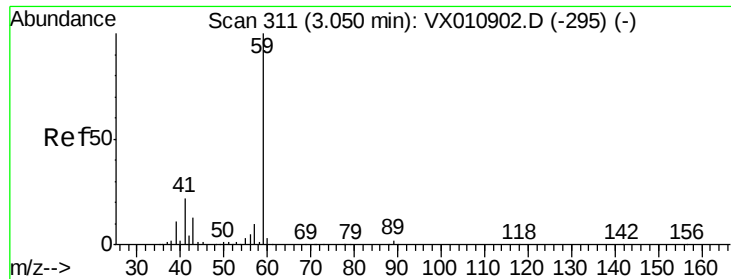
Ion Ratio Lower Upper

142 100

127 36.7 34.2 51.4

141 5.9 11.7 17.5#

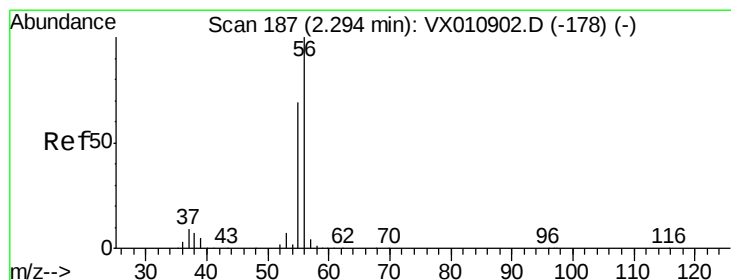
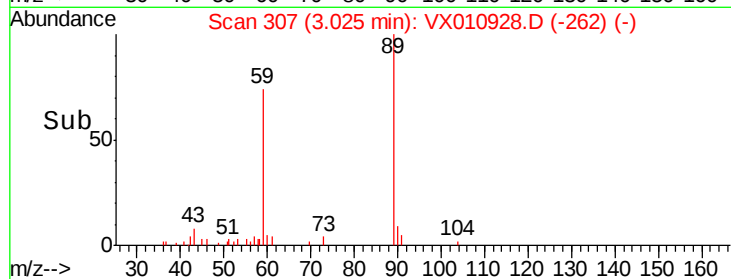
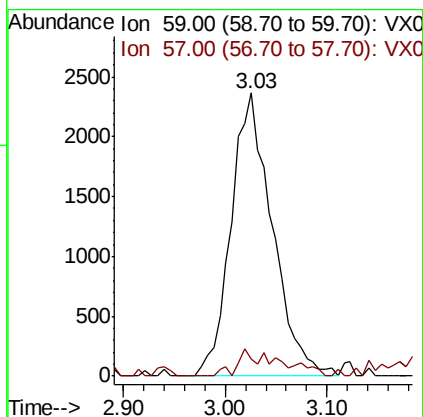
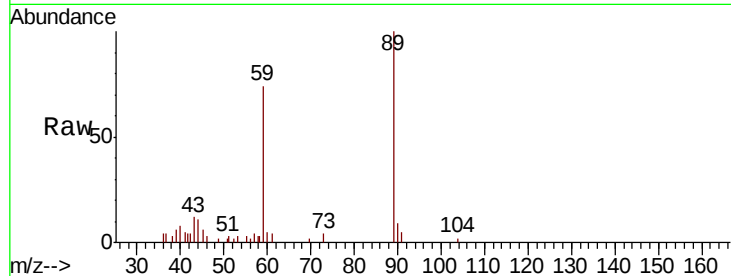




#11
Tert butyl alcohol
Concen: 11.901 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX010928.D
Acq: 17 Jul 2019 12:13

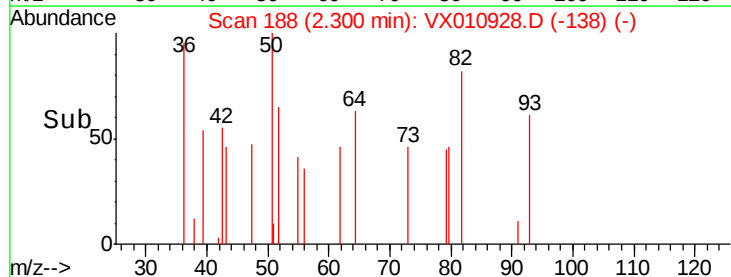
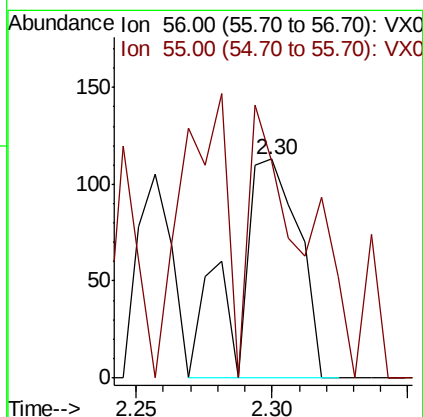
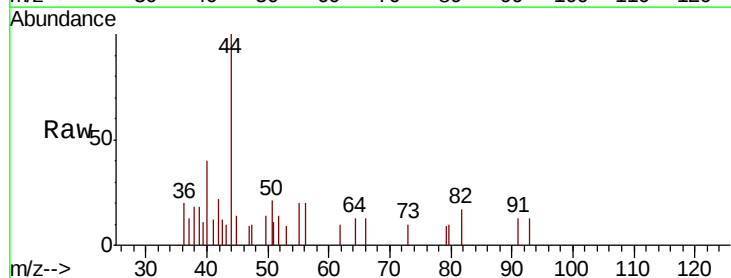
Instrument :
MSVOA_X
ClientSampled :
TW-9

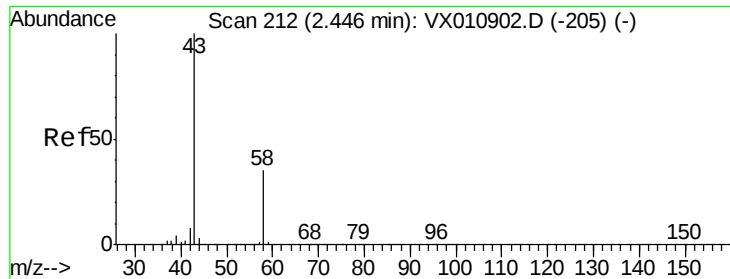
Tot Ion: 59 Resp: 6622
Ion Ratio Lower Upper
59 100
57 4.0 7.9 11.9#



#13
Acrolein
Concen: 0.563 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX010928.D
Acq: 17 Jul 2019 12:13

Tgt Ion: 56 Resp: 181
Ion Ratio Lower Upper
56 100
55 107.7 55.9 83.9#





#16

Acetone

Concen: 8.816 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

Instrument :

MSVOA_X

ClientSampled :

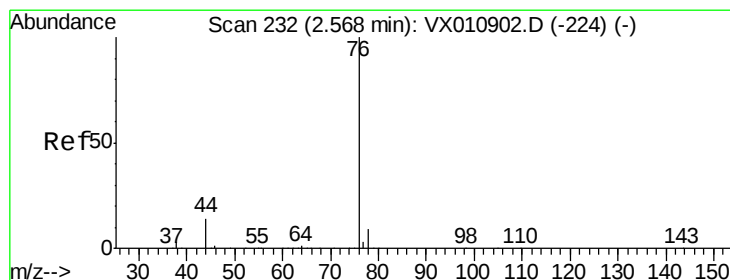
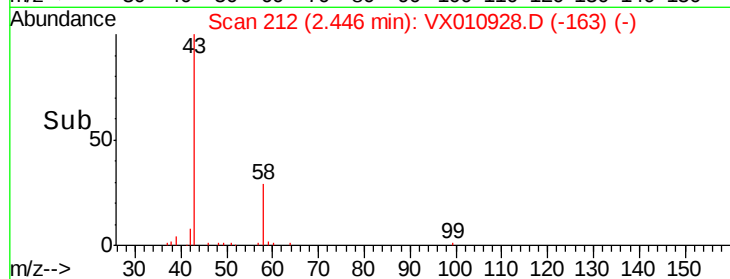
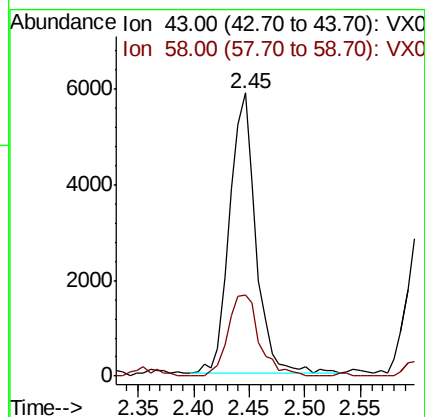
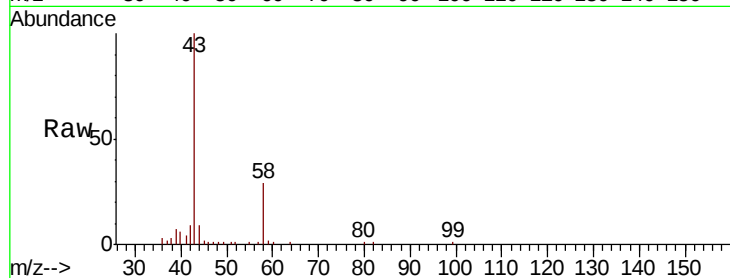
TW-9

Tot Ion: 43 Resp: 9513

Ion Ratio Lower Upper

43 100

58 29.2 27.7 41.5



#17

Carbon Disulfide

Concen: 0.296 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010928.D

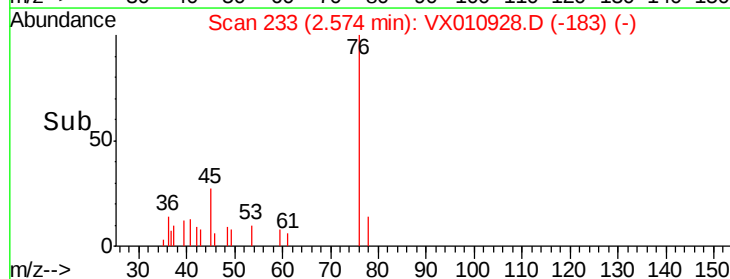
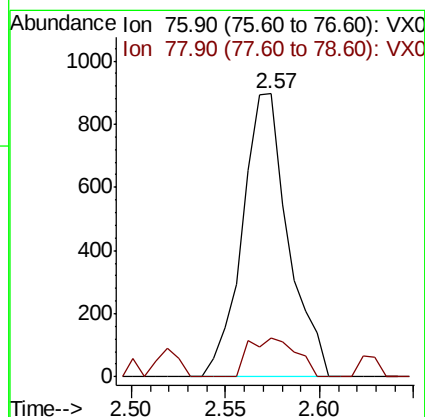
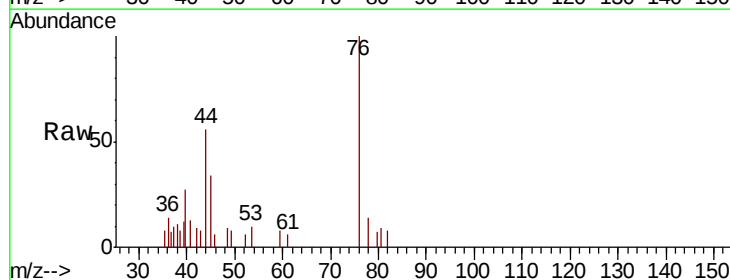
Acq: 17 Jul 2019 12:13

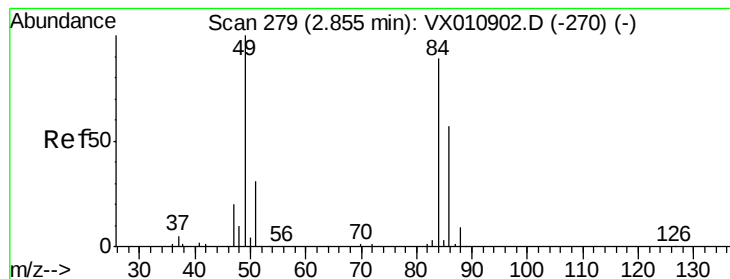
Tgt Ion: 76 Resp: 1517

Ion Ratio Lower Upper

76 100

78 14.0 7.4 11.0#





#20

Methylene Chloride

Concen: 0.275 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

Instrument :

MSVOA_X

ClientSampled :

TW-9

Tot Ion: 84 Resp: 630

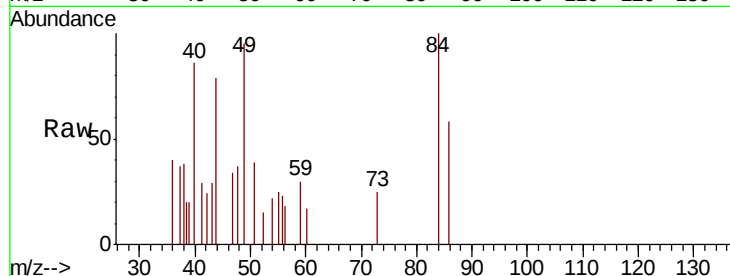
Ion Ratio Lower Upper

84 100

49 74.3 89.9 134.9#

51 22.1 27.8 41.6#

86 58.3 51.8 77.6

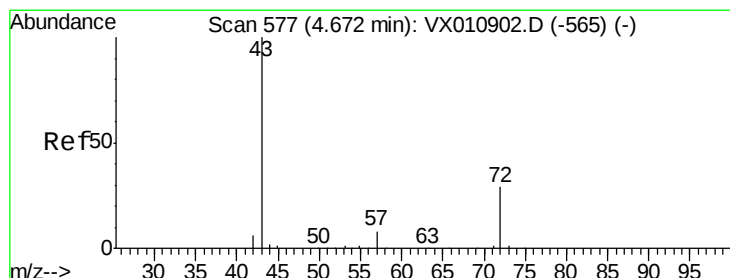
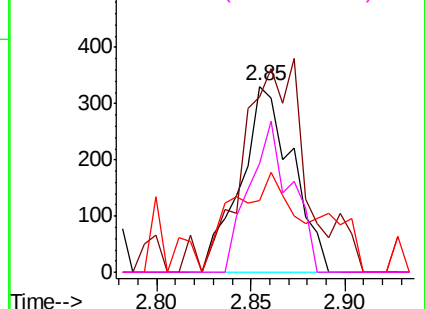
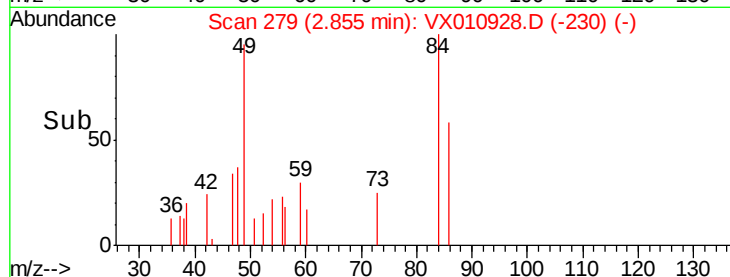


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 0.725 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX010928.D

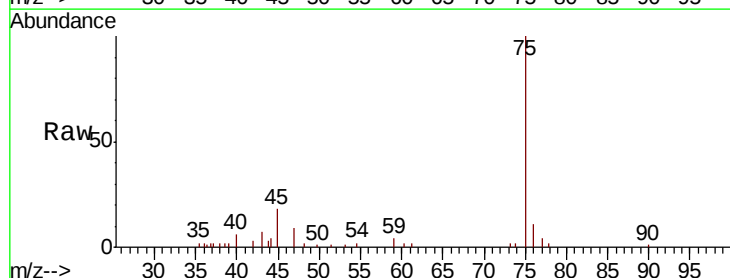
Acq: 17 Jul 2019 12:13

Tgt Ion: 43 Resp: 1123

Ion Ratio Lower Upper

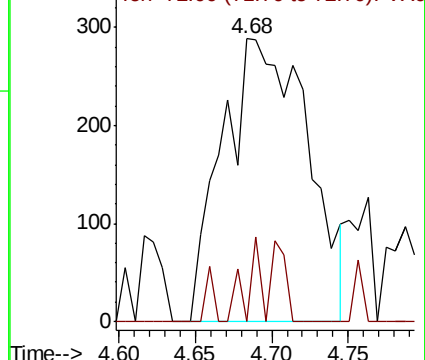
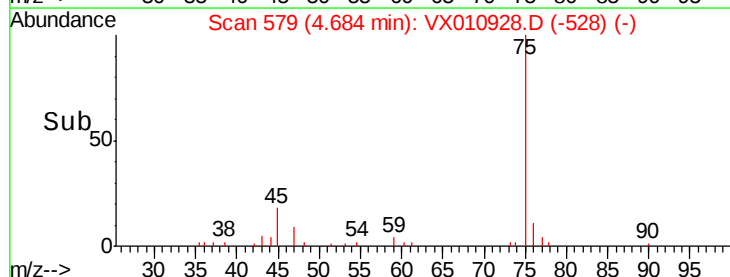
43 100

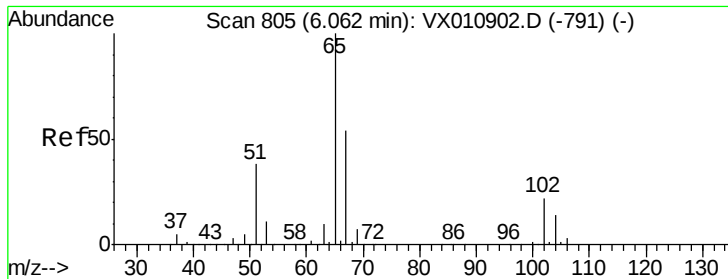
72 0.0 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.784 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

Instrument :

MSVOA_X

ClientSampled :

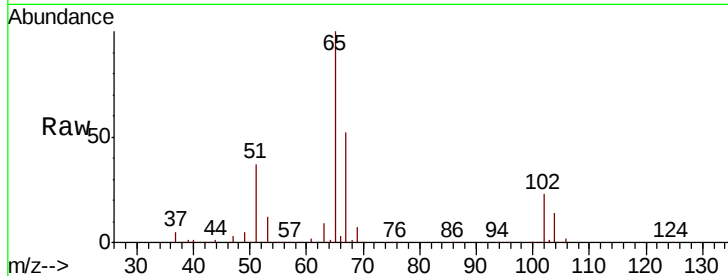
TW-9

Tot Ion: 65 Resp: 118944

Ion Ratio Lower Upper

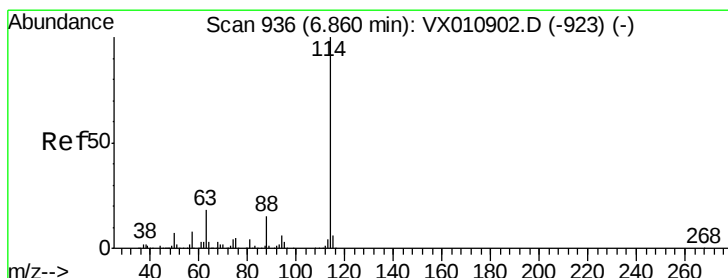
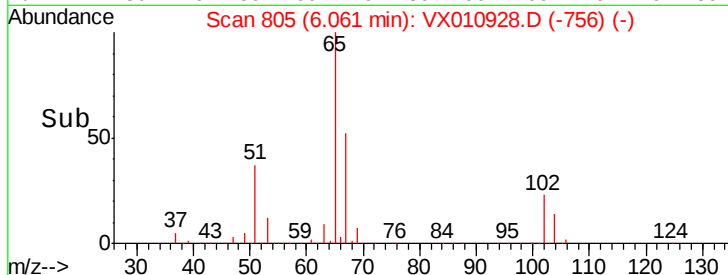
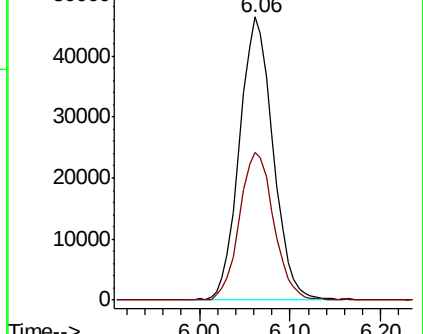
65 100

67 53.3 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

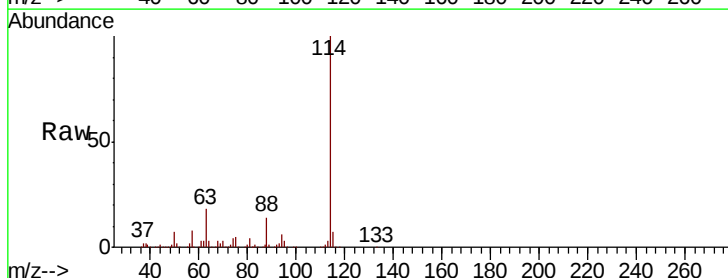
Tgt Ion: 114 Resp: 352704

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.6

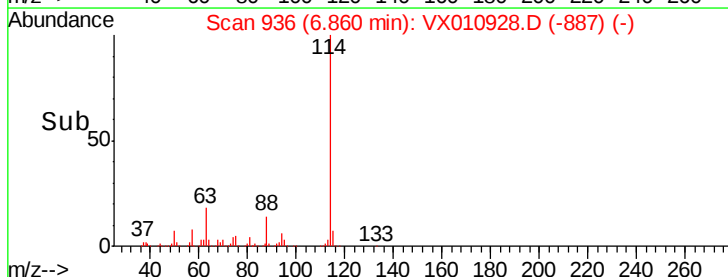
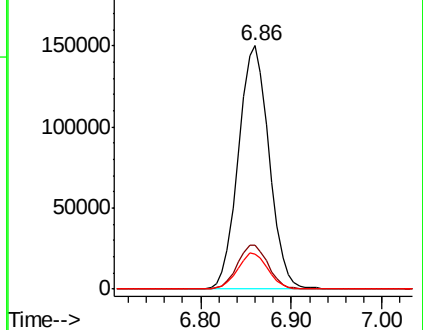
88 14.4 0.0 29.8

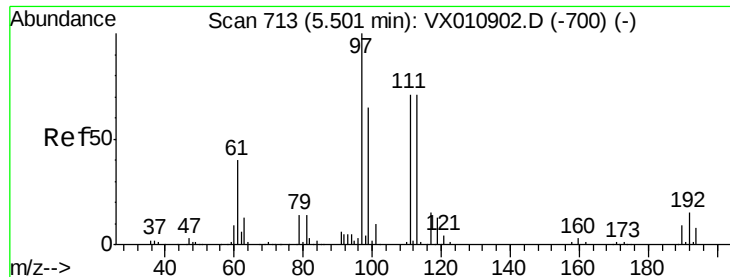


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.086 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

Instrument :

MSVOA_X

ClientSampled :

TW-9

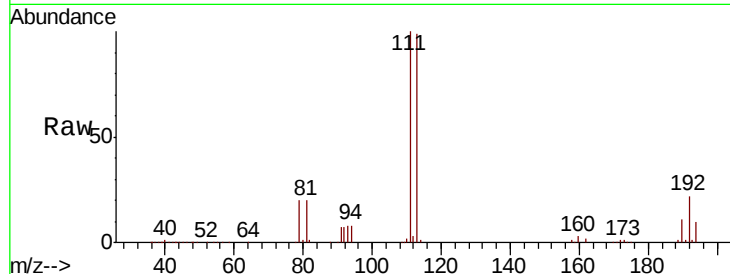
Tot Ion:113 Resp: 109889

Ion Ratio Lower Upper

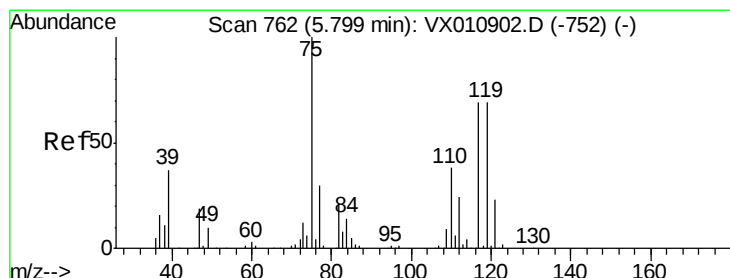
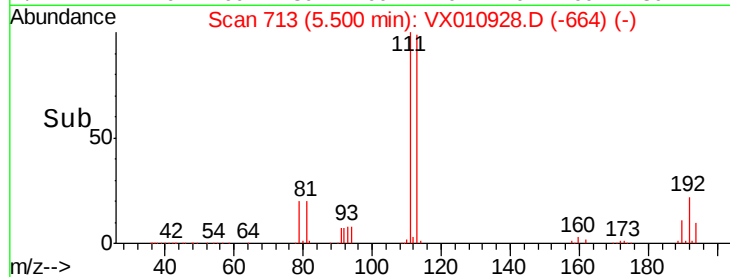
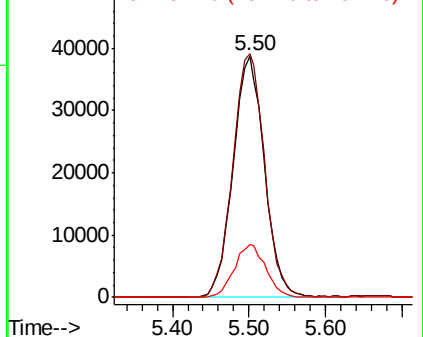
113 100

111 102.1 82.3 123.5

192 22.0 17.4 26.2



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: 5.224 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

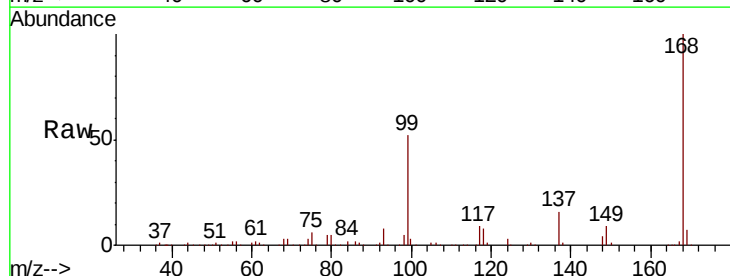
Tgt Ion: 75 Resp: 15134

Ion Ratio Lower Upper

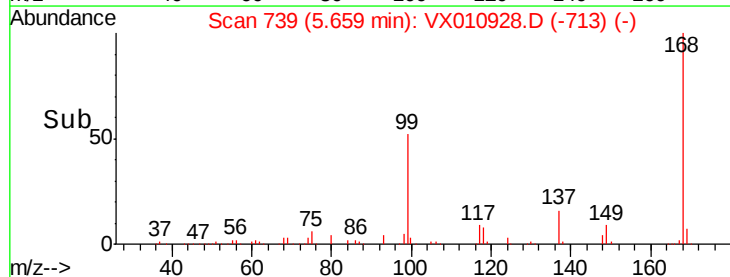
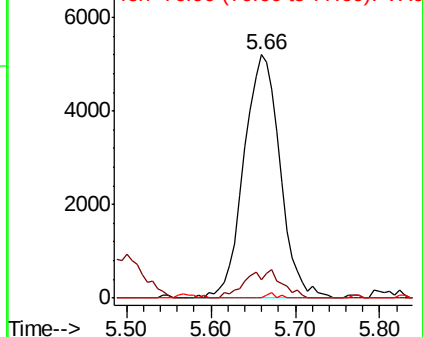
75 100

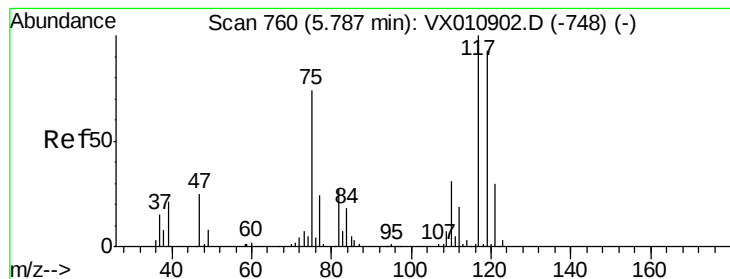
110 5.7 19.9 59.7#

77 0.6 25.0 37.4#



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: 6.975 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

Instrument :

MSVOA_X

ClientSampled :

TW-9

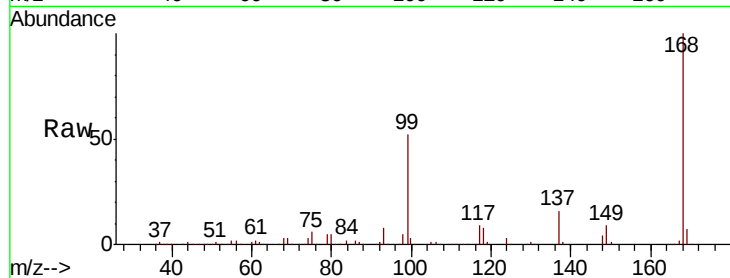
Tot Ion:117 Resp: 21057

Ion Ratio Lower Upper

117 100

119 5.6 74.2 111.2#

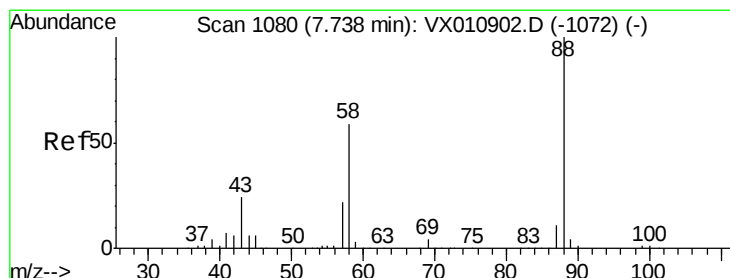
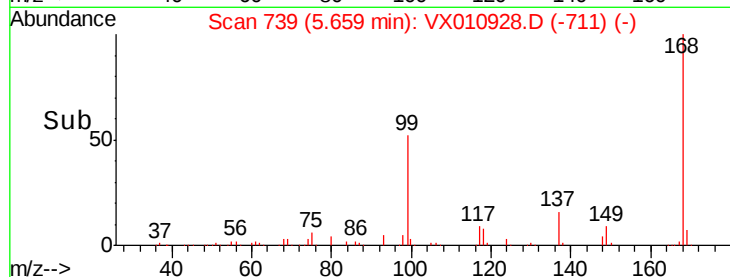
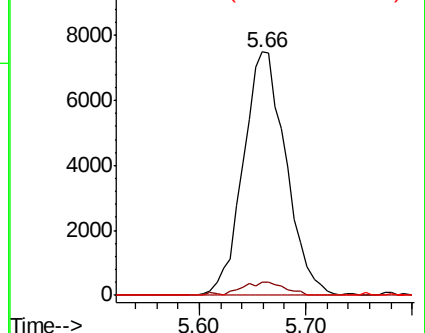
121 0.0 24.2 36.2#



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



#49

1,4-Dioxane

Concen: 0.301 ug/l

RT: 7.88 min Scan# 1104

Delta R.T. 0.15 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

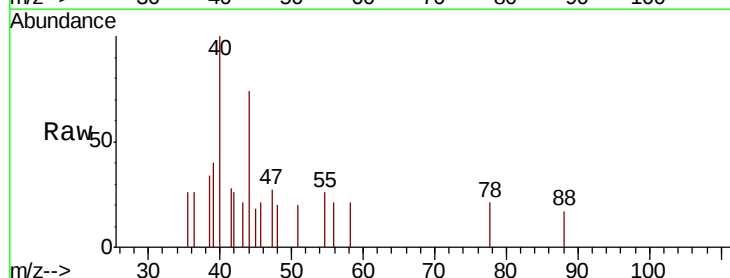
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 405.0 22.9 34.3#

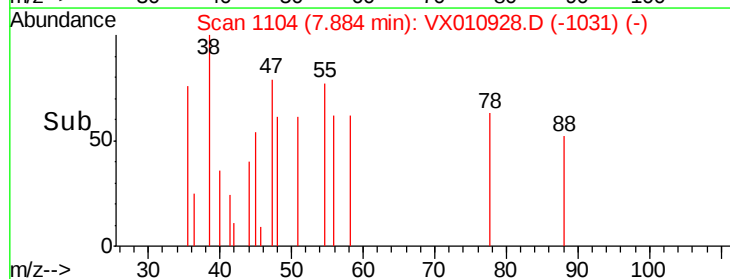
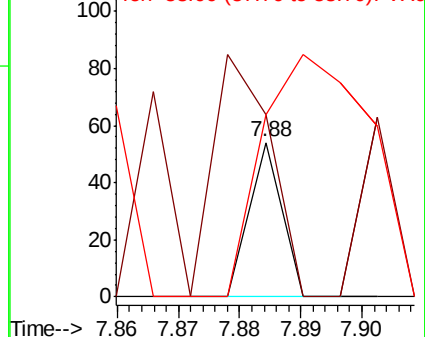
58 520.0 49.8 74.8#

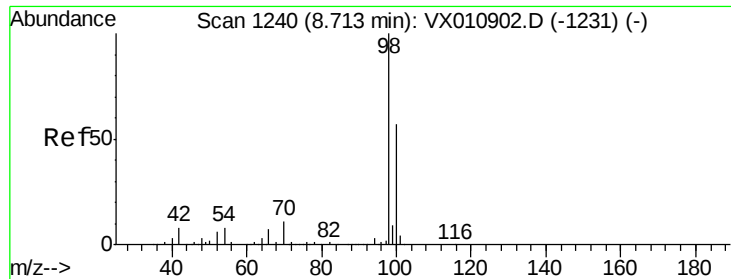


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.754 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

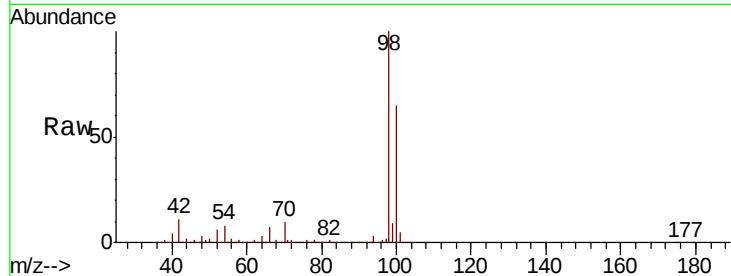
Instrument :
MSVOA_X
ClientSampled :
TW-9

Tot Ion: 98 Resp: 426153

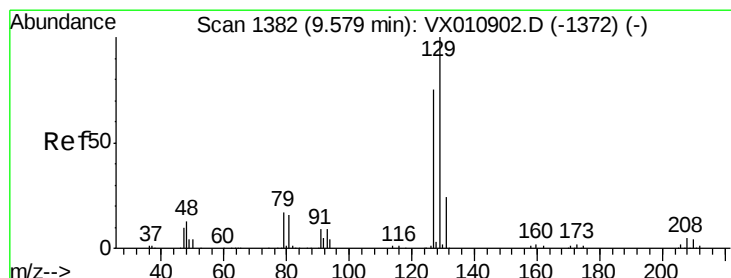
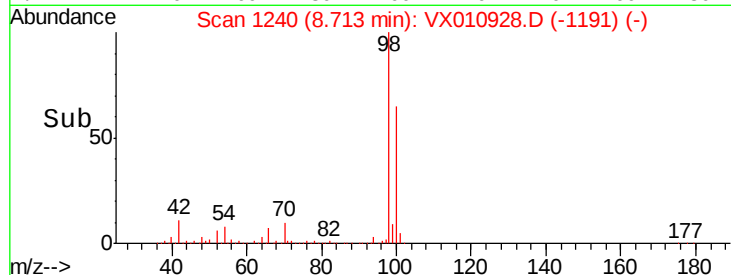
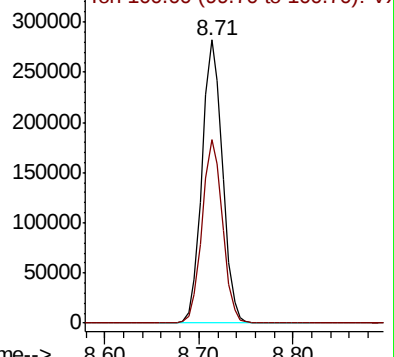
Ion Ratio Lower Upper

98 100

100 64.6 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX010902.D (-1231) (-)



#60

Dibromochloromethane

Concen: 2.537 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010928.D

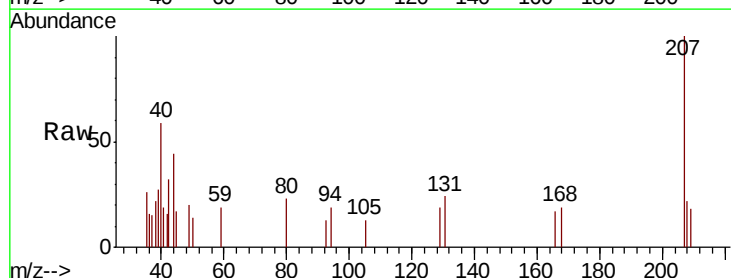
Acq: 17 Jul 2019 12:13

Tgt Ion: 129 Resp: 27

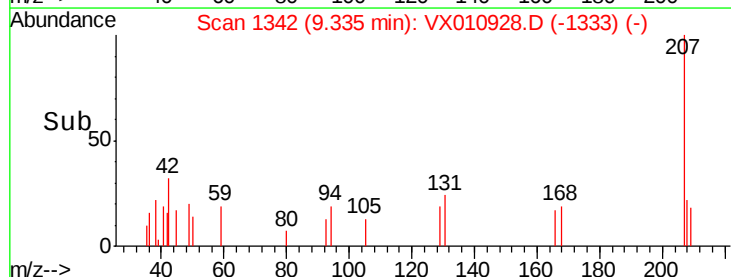
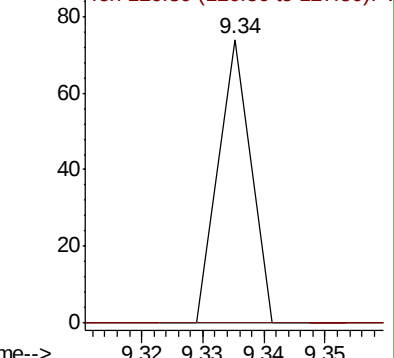
Ion Ratio Lower Upper

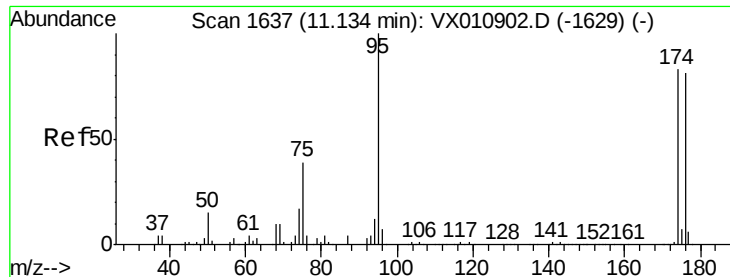
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VX010902.D (-1372) (-)





#62

4-Bromofluorobenzene

Concen: 47.935 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

Instrument :

MSVOA_X

ClientSampleId :

TW-9

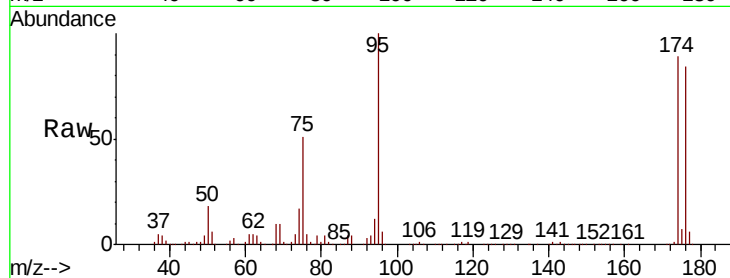
Tot Ion: 95 Resp: 147941

Ion Ratio Lower Upper

95 100

174 92.7 0.0 180.6

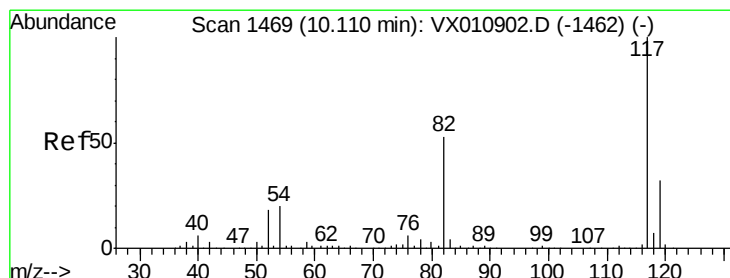
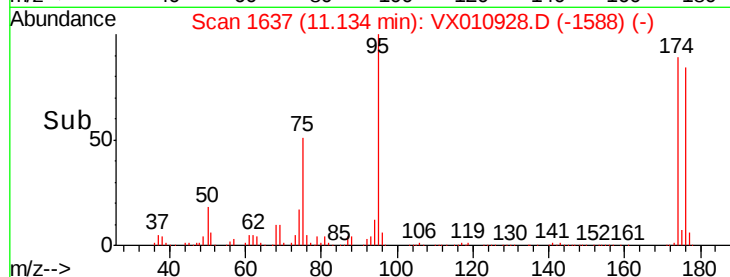
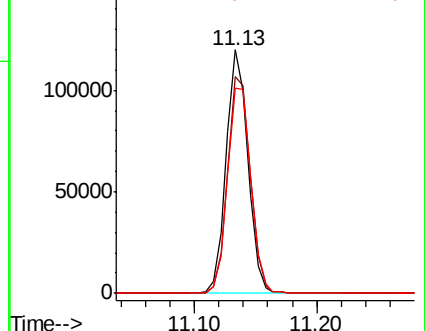
176 90.3 0.0 173.8



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: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

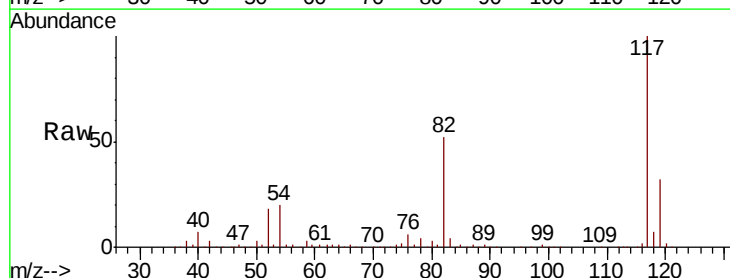
Tgt Ion: 117 Resp: 330764

Ion Ratio Lower Upper

117 100

82 52.2 42.6 63.8

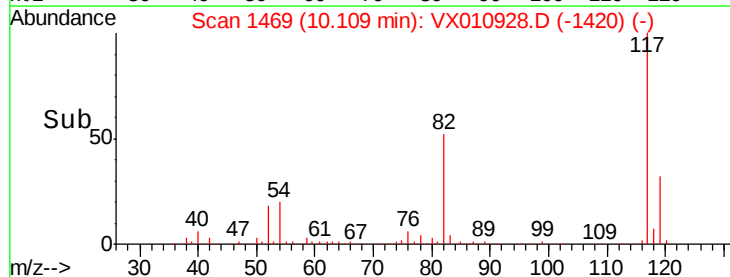
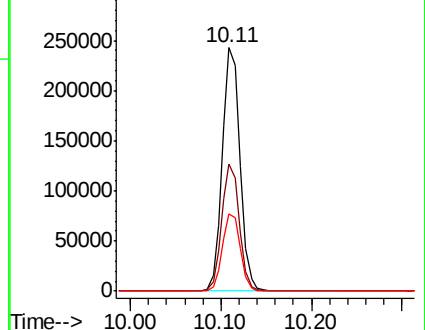
119 32.0 25.9 38.9

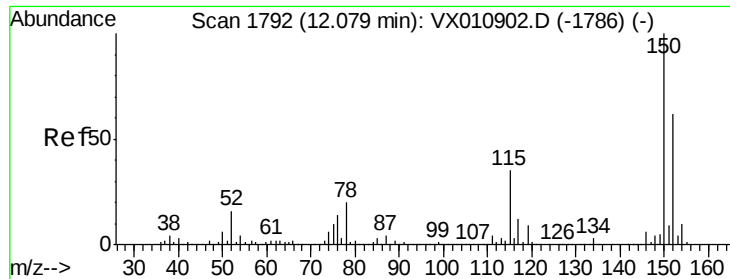


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

Instrument :

MSVOA_X

ClientSampled :

TW-9

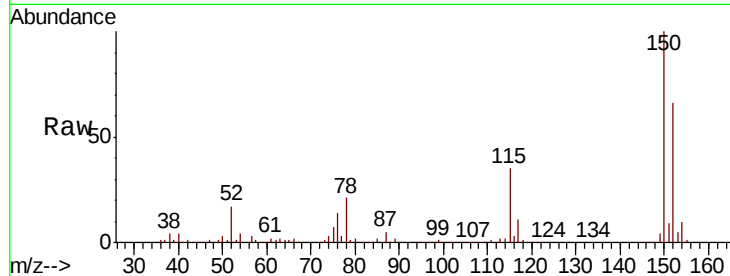
Tot Ion:152 Resp: 152998

Ion Ratio Lower Upper

152 100

115 55.8 39.7 119.1

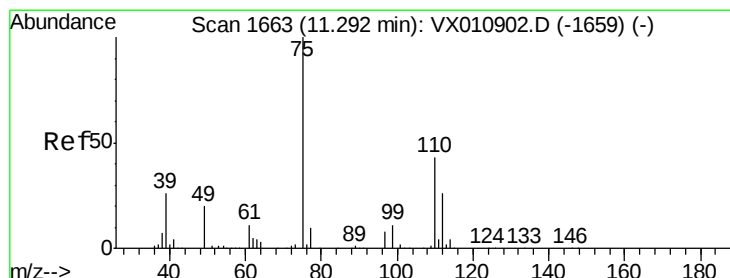
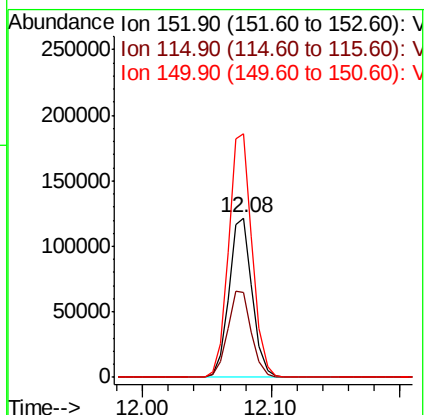
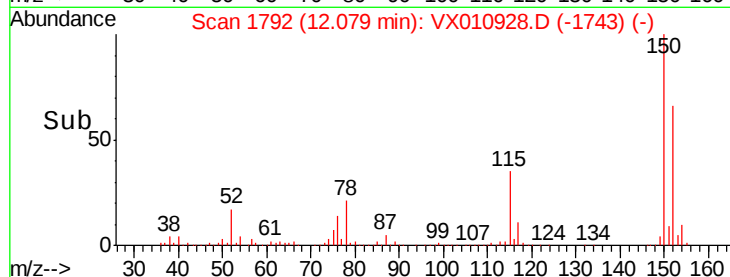
150 155.6 0.0 345.6



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: 27.013 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010928.D

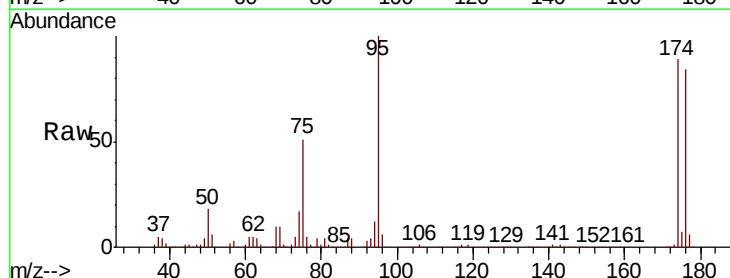
Acq: 17 Jul 2019 12:13

Tgt Ion: 75 Resp: 74580

Ion Ratio Lower Upper

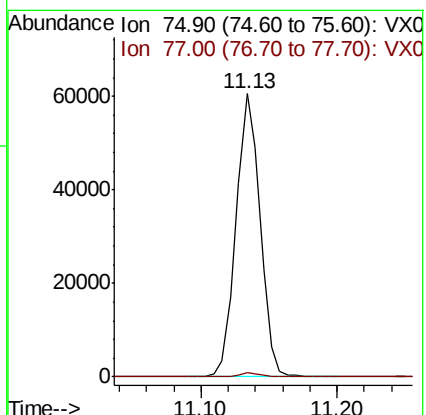
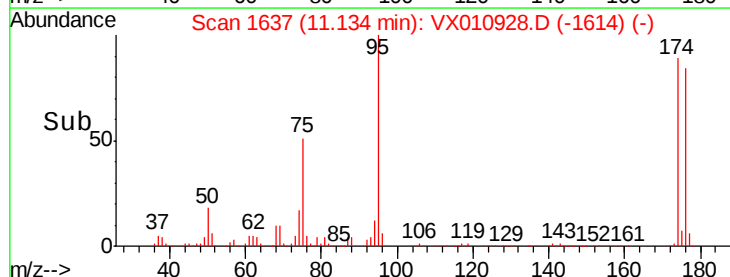
75 100

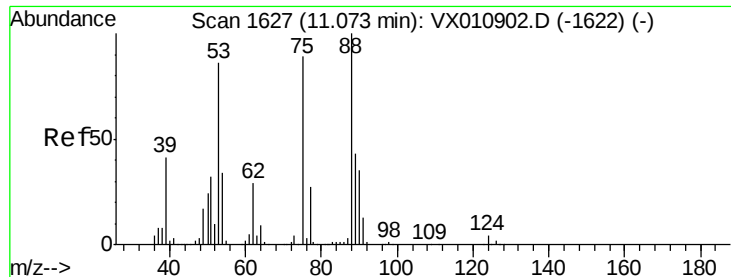
77 1.2 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 66.970 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010928.D

Acq: 17 Jul 2019 12:13

Instrument :

MSVOA_X

ClientSampleId :

TW-9

Tot Ion: 75 Resp: 74580

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#

