

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072919\
 Data File : VX011153.D
 Acq On : 29 Jul 2019 18:09
 Operator : JC/SP
 Sample : K4026-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0677

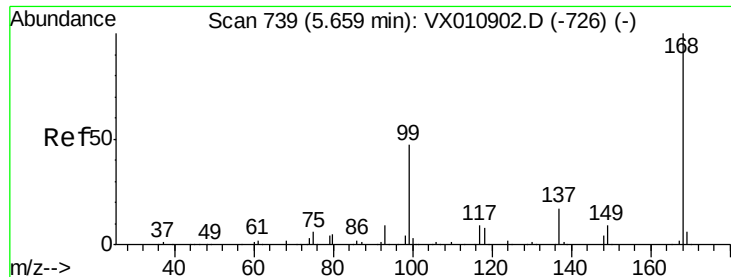
Quant Time: Jul 30 05:08:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	178508	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	285260	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	263563	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	118466	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	98168	51.69	ug/l	0.00
Spiked Amount			Recovery	=	103.38%	
35) Dibromofluoromethane	5.50	113	91043	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
50) Toluene-d8	8.71	98	341599	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
62) 4-Bromofluorobenzene	11.13	95	115388	46.23	ug/l	0.00
Spiked Amount			Recovery	=	92.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	50	0.572	ug/l #	43
3) Chloromethane	1.33	50	567	0.345	ug/l #	72
5) Bromomethane	1.65	94	358	0.379	ug/l	85
6) Chloroethane	1.79	64	532	0.500	ug/l #	41
11) Tert butyl alcohol	3.09	59	96	0.217	ug/l #	1
13) Acrolein	2.28	56	120	0.470	ug/l #	56
16) Acetone	2.45	43	2055	2.396	ug/l	89
18) Methyl Acetate	2.78	43	503	0.258	ug/l #	88
25) 2-Butanone	4.69	43	271	0.220	ug/l #	46
27) cis-1,2-Dichloroethene	4.60	96	7477	3.829	ug/l	90
29) Tetrahydrofuran	5.11	42	254	0.326	ug/l #	29
36) 1,1-Dichloropropene	5.66	75	12128	5.176	ug/l #	48
38) Carbon Tetrachloride	5.66	117	16404	6.718	ug/l #	17
49) 1,4-Dioxane	7.70	88	19	0.353	ug/l #	1
60) Dibromochloromethane	9.30	129	20	2.536	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	58437	27.335	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	58437	67.723	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: VX011153.D

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MSVOA_X

ClientSampleId :

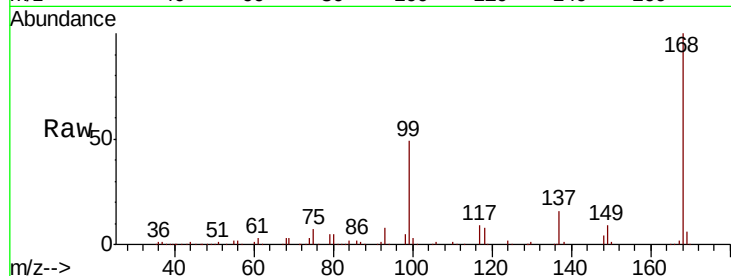
Z3-0677

Tot Ion:168 Resp: 178508

Ion Ratio Lower Upper

168 100

99 49.1 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

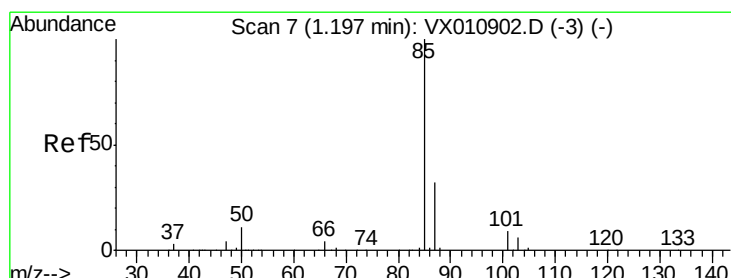
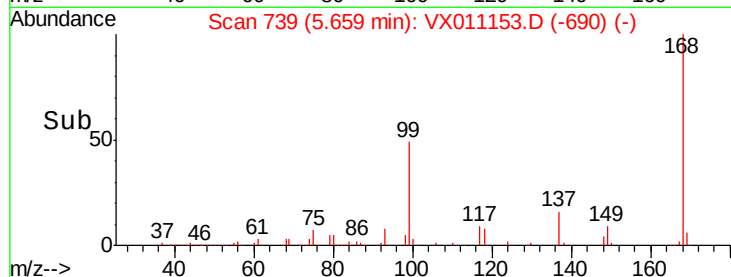
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.572 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX011153.D

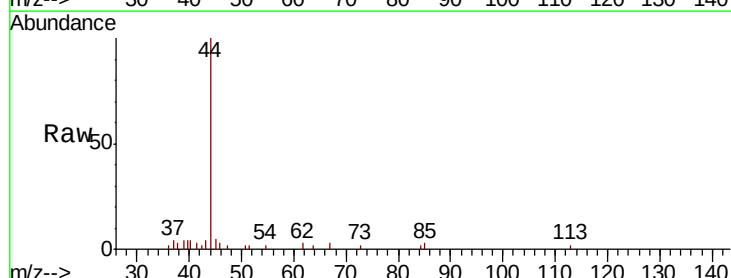
Acq: 29 Jul 2019 18:09

Tgt Ion: 85 Resp: 50

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

1.20

100

80

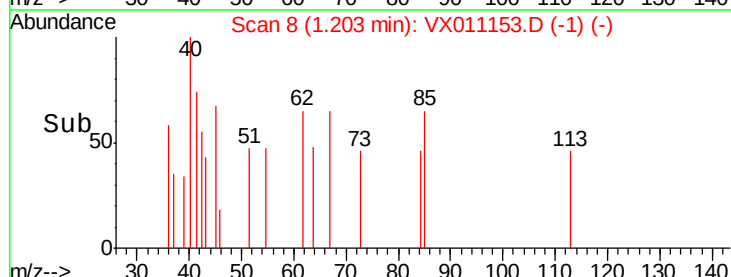
60

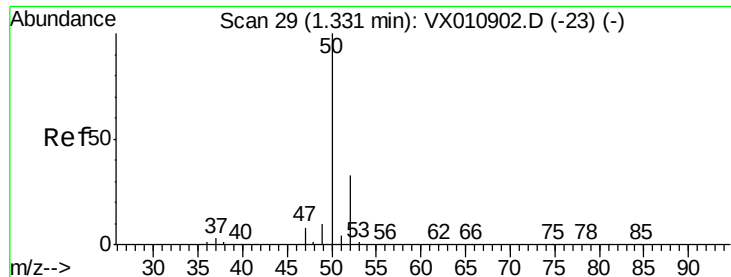
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.345 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011153.D

Acq: 29 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

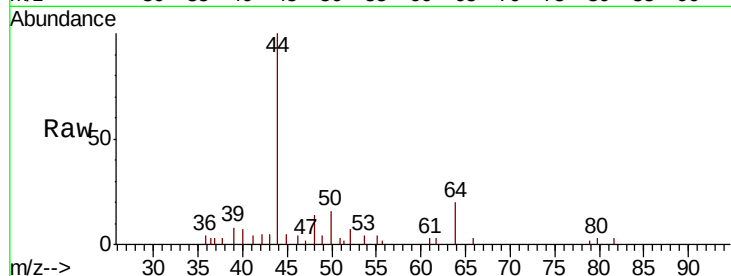
Z3-0677

Tot Ion: 50 Resp: 567

Ion Ratio Lower Upper

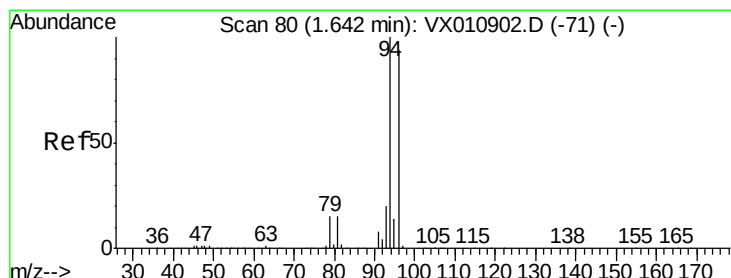
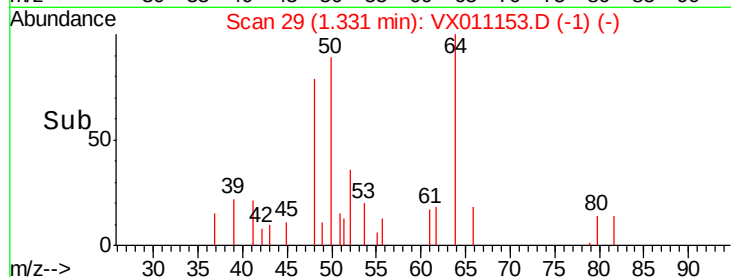
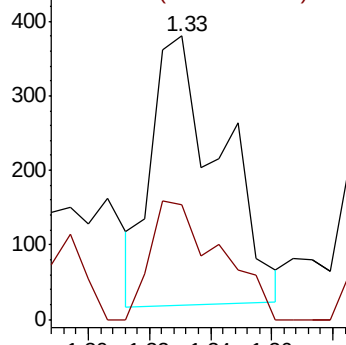
50 100

52 49.0 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.379 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011153.D

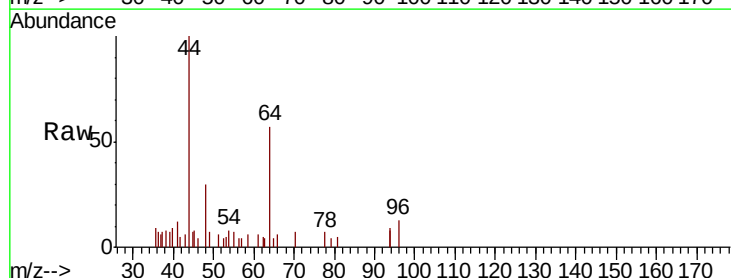
Acq: 29 Jul 2019 18:09

Tgt Ion: 94 Resp: 358

Ion Ratio Lower Upper

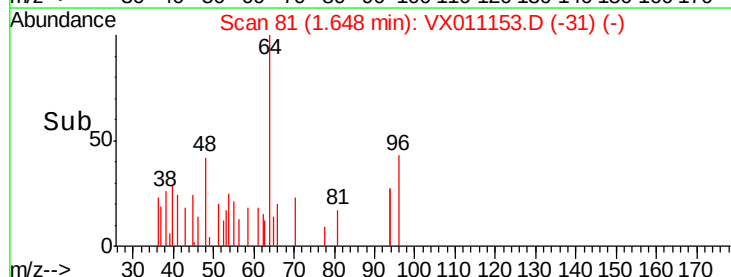
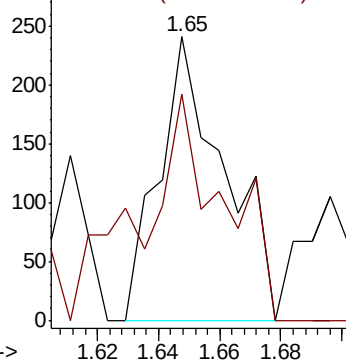
94 100

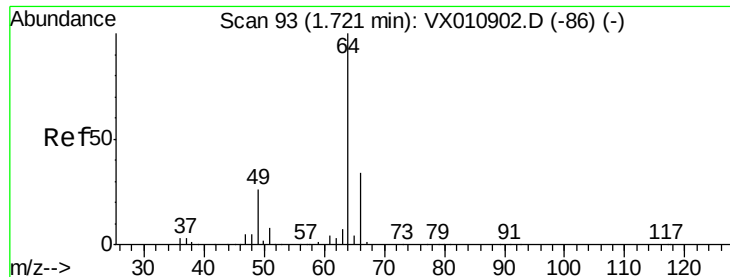
96 79.7 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.500 ug/l

RT: 1.79 min Scan# 105

Delta R.T. 0.07 min

Lab File: VX011153.D

Acq: 29 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampled :

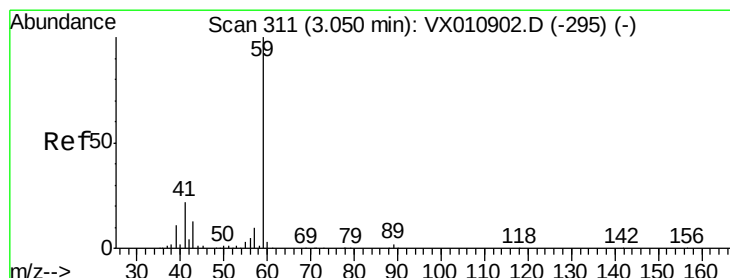
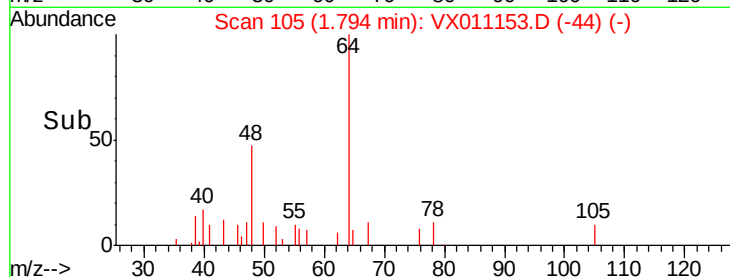
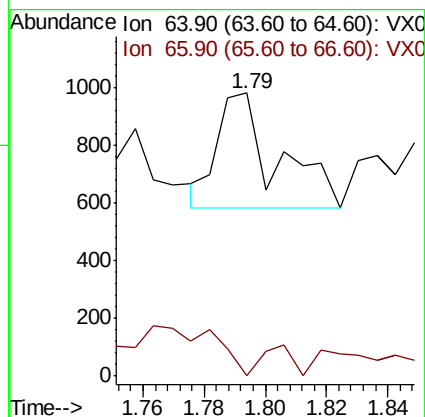
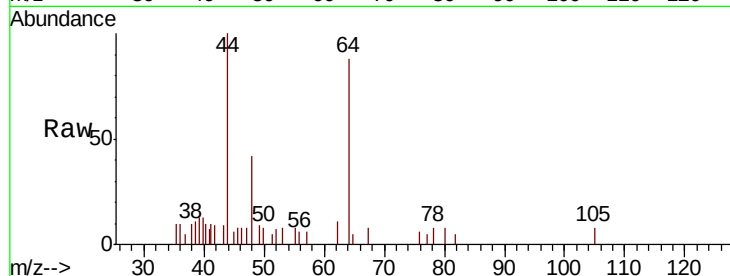
Z3-0677

Tot Ion: 64 Resp: 532

Ion Ratio Lower Upper

64 100

66 0.0 27.0 40.6#



#11

Tert butyl alcohol

Concen: 0.217 ug/l

RT: 3.09 min Scan# 318

Delta R.T. 0.04 min

Lab File: VX011153.D

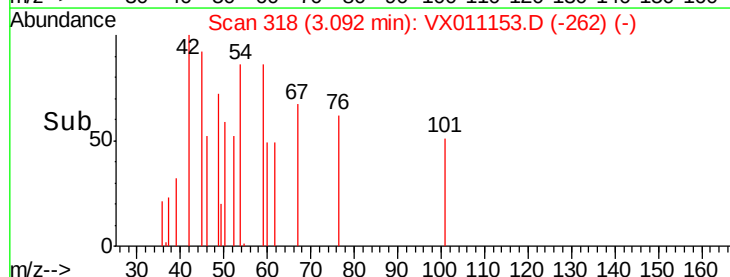
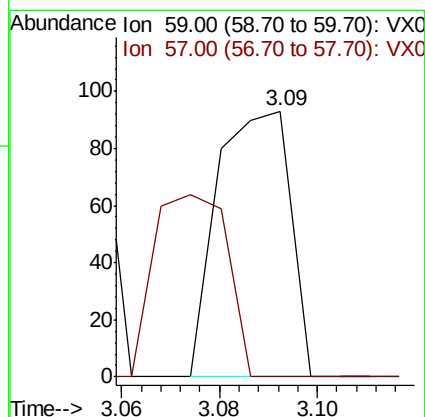
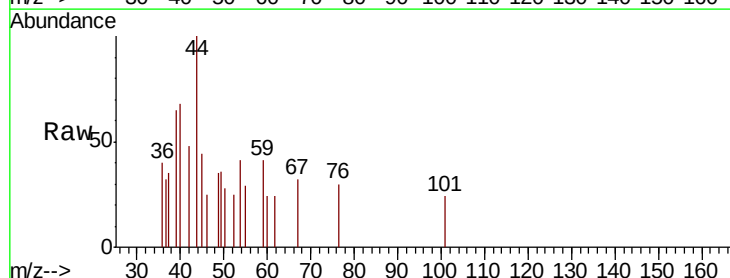
Acq: 29 Jul 2019 18:09

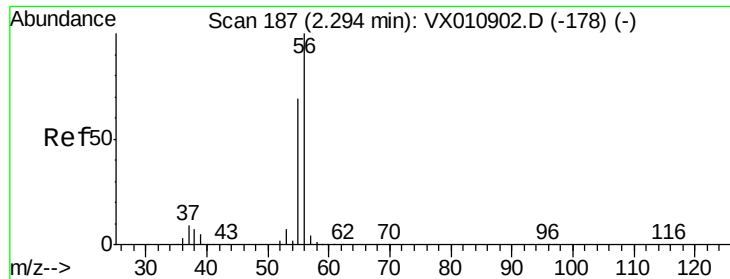
Tgt Ion: 59 Resp: 96

Ion Ratio Lower Upper

59 100

57 69.8 7.9 11.9#





#13

Acrolein

Concen: 0.470 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX011153.D

Acq: 29 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

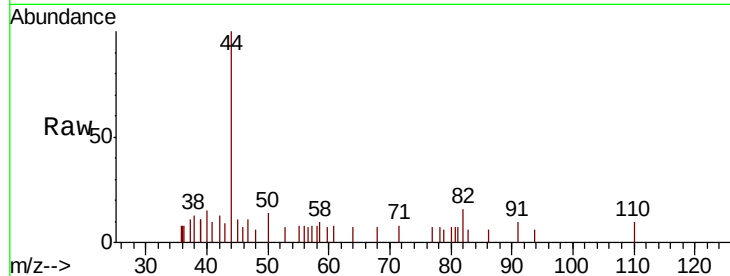
Z3-0677

Tot Ion: 56 Resp: 120

Ion Ratio Lower Upper

56 100

55 105.8 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

200

150

100

50

0

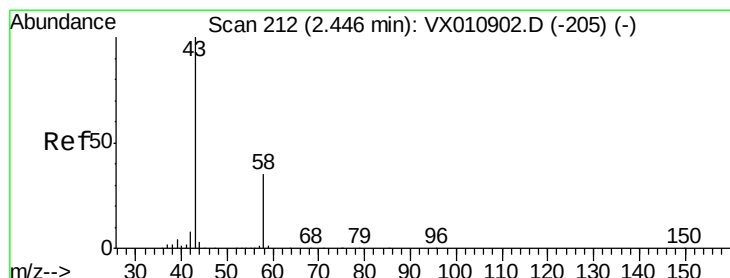
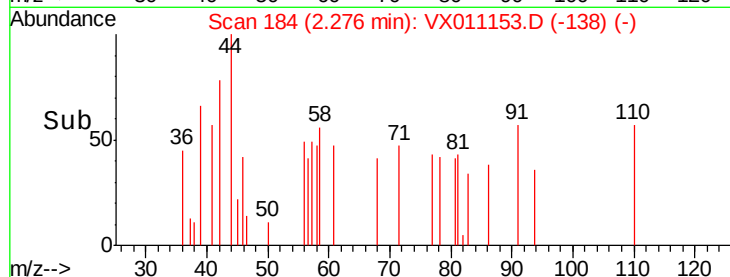
2.26

2.28

2.30

2.32

Time-->



#16

Acetone

Concen: 2.396 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX011153.D

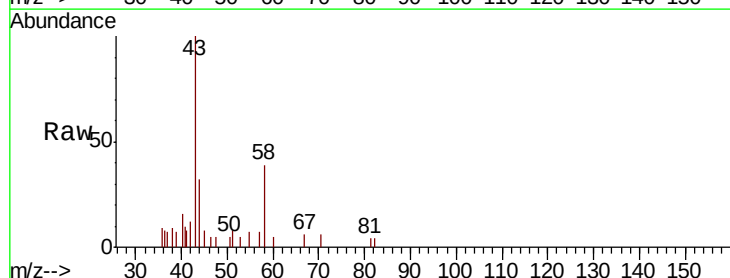
Acq: 29 Jul 2019 18:09

Tgt Ion: 43 Resp: 2055

Ion Ratio Lower Upper

43 100

58 41.2 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1000

500

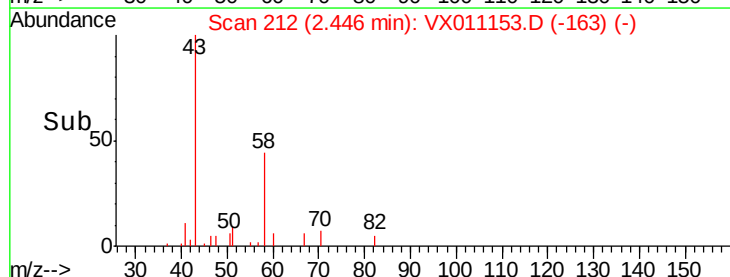
0

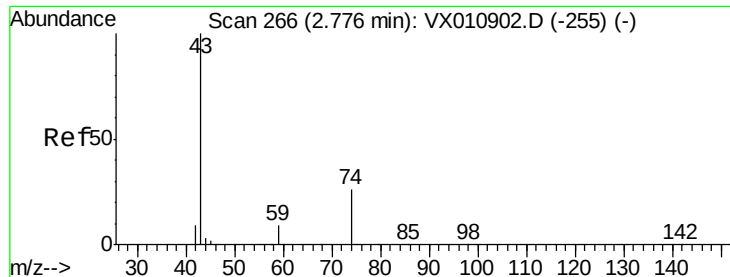
2.40

2.45

2.50

Time-->

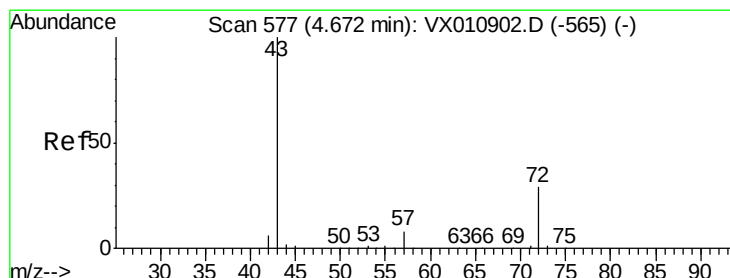
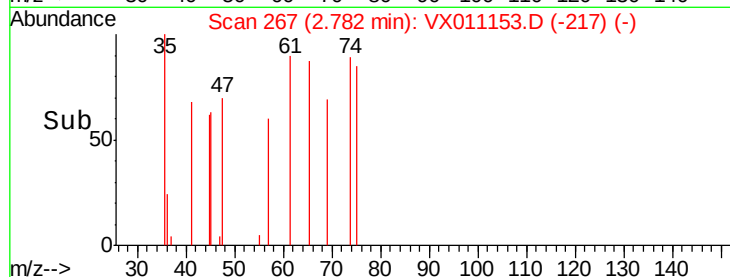
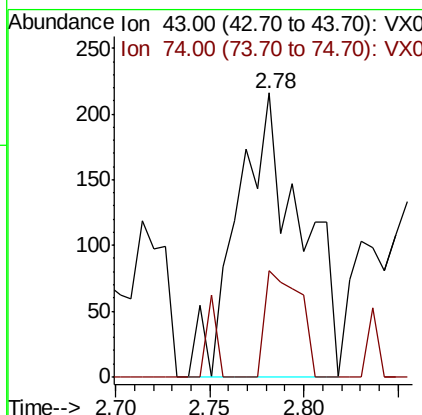
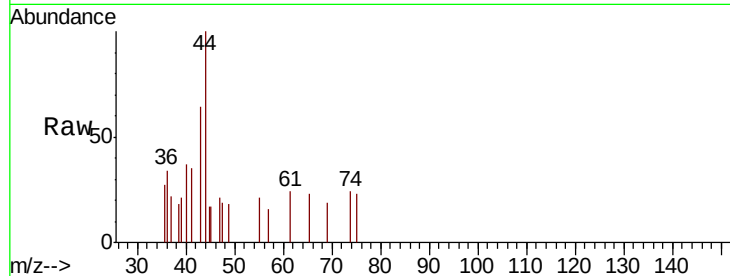




#18
Methvl Acetate
Concen: 0.258 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX011153.D
Acq: 29 Jul 2019 18:09

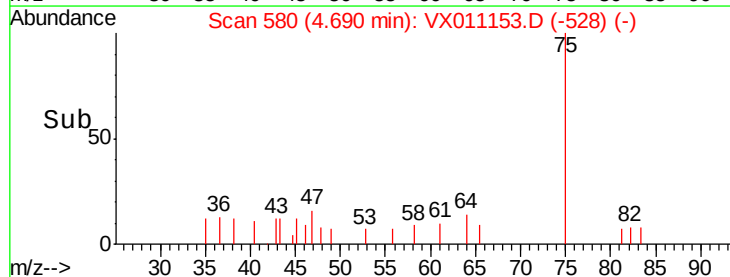
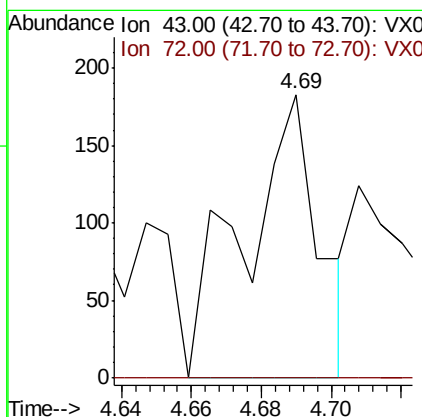
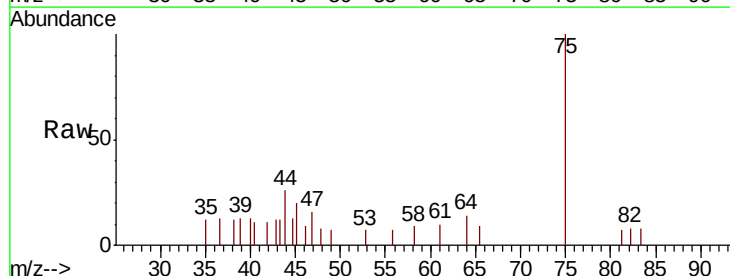
Instrument :
MSVOA_X
ClientSampleId :
Z3-0677

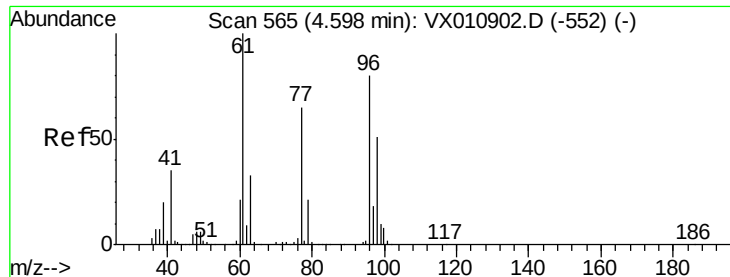
Tot Ion: 43 Resp: 503
Ion Ratio Lower Upper
43 100
74 20.5 21.5 32.3#



#25
2-Butanone
Concen: 0.220 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX011153.D
Acq: 29 Jul 2019 18:09

Tgt Ion: 43 Resp: 271
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



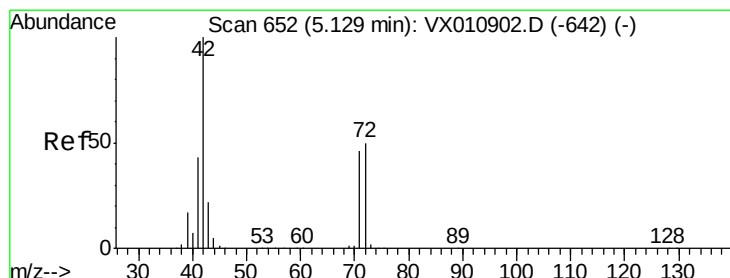
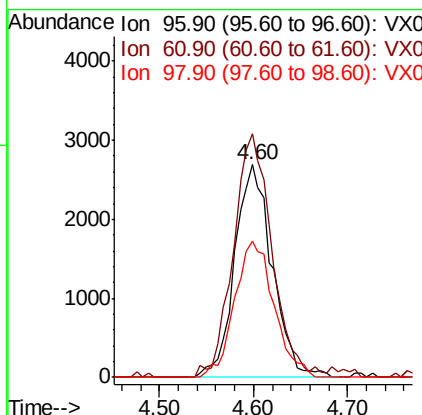
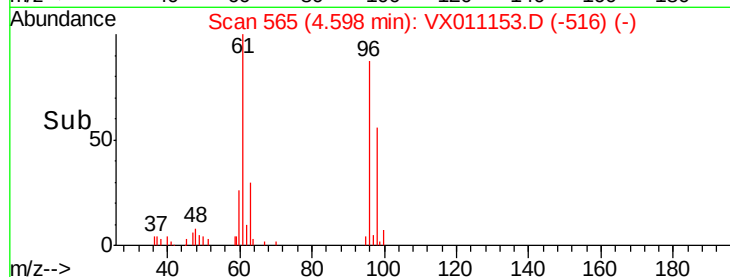
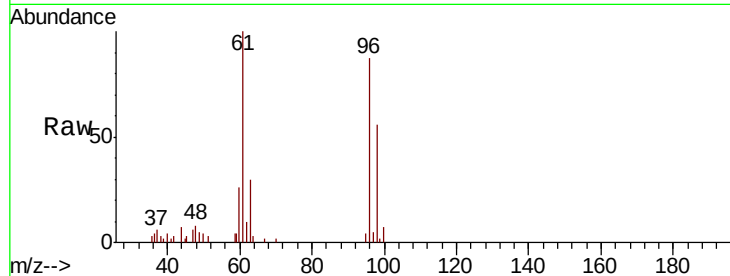


#27

cis-1,2-Dichloroethene
Concen: 3.829 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX011153.D
Acq: 29 Jul 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
Z3-0677

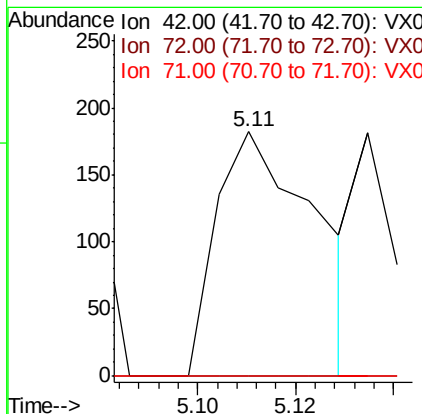
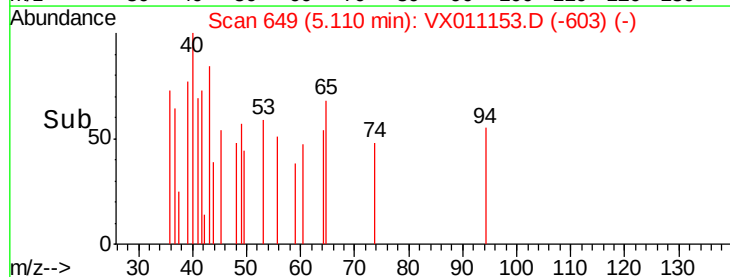
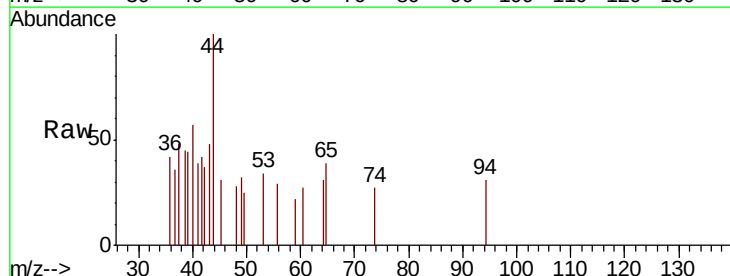
Tot Ion	Ratio	Lower	Upper
96	100		
61	118.0	0.0	269.0
98	67.4	0.0	131.4

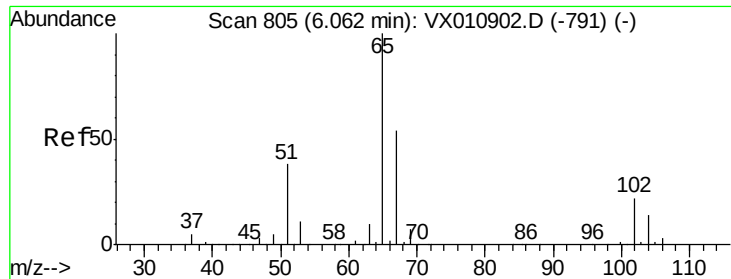


#29

Tetrahydrofuran
Concen: 0.326 ug/l
RT: 5.11 min Scan# 649
Delta R.T. -0.02 min
Lab File: VX011153.D
Acq: 29 Jul 2019 18:09

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	39.8	59.8#
71	0.0	37.0	55.4#

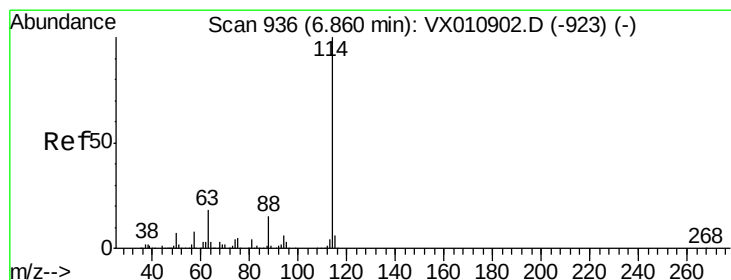
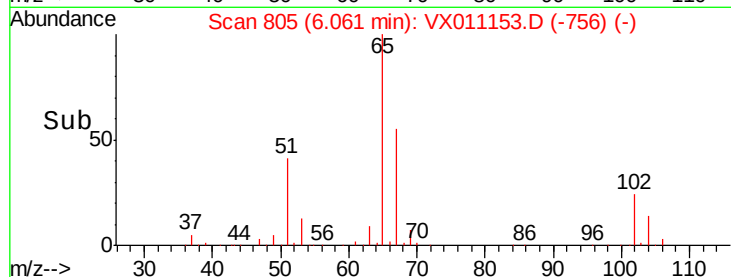
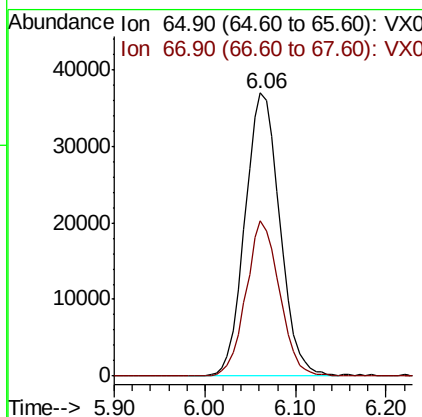
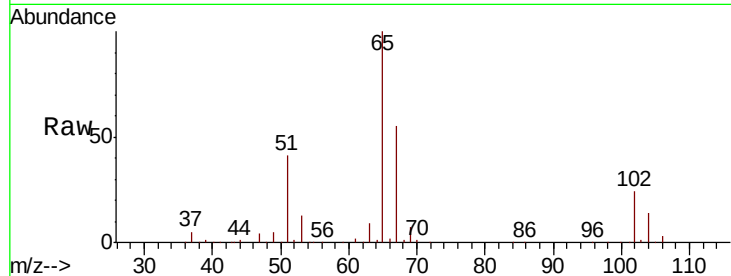




#33
 1,2-Dichloroethane-d4
 Concen: 51.693 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX011153.D
 Acq: 29 Jul 2019 18:09

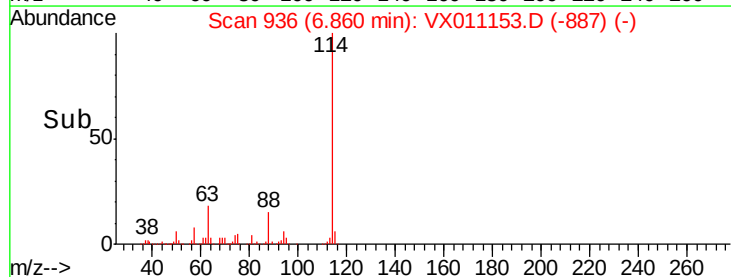
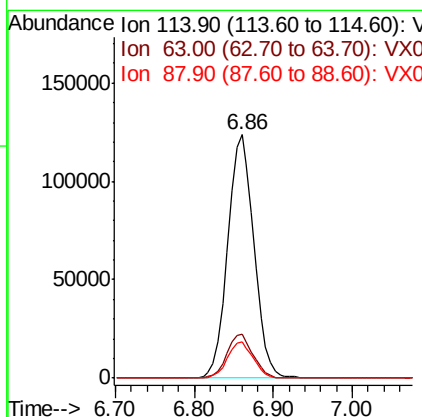
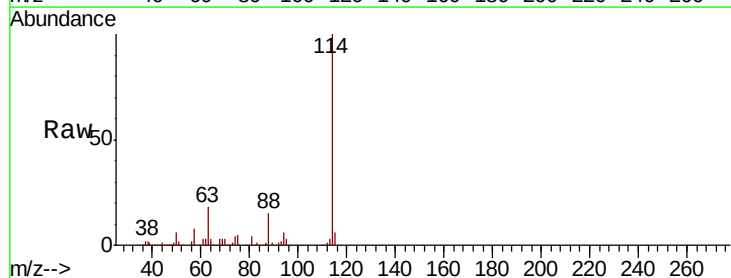
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0677

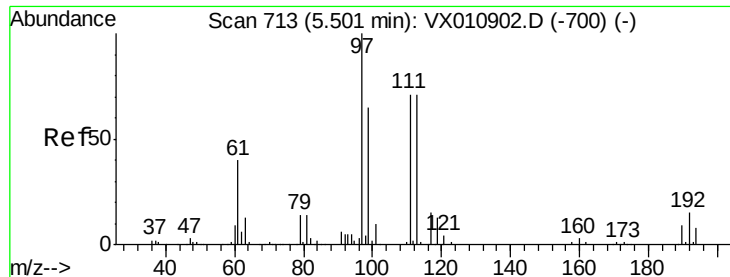
Tot Ion: 65 Resp: 98168
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX011153.D
 Acq: 29 Jul 2019 18:09

Tgt Ion: 114 Resp: 285260
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 35.6
 88 15.0 0.0 29.8





#35

Dibromofluoromethane

Concen: 50.283 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011153.D

Acq: 29 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

Z3-0677

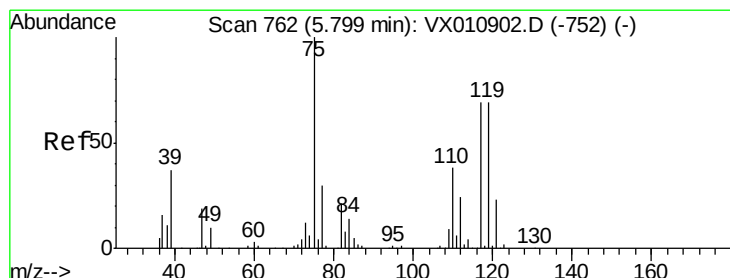
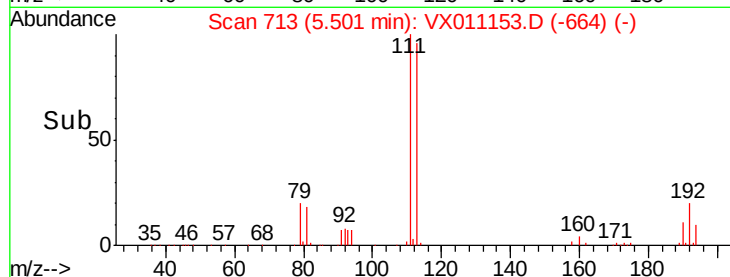
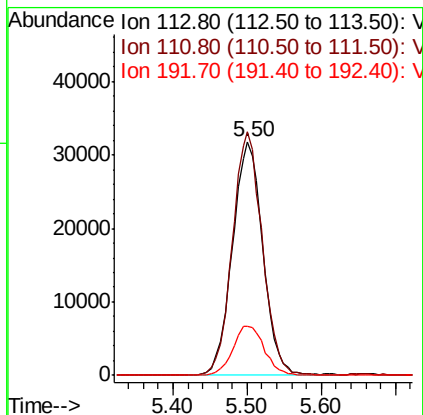
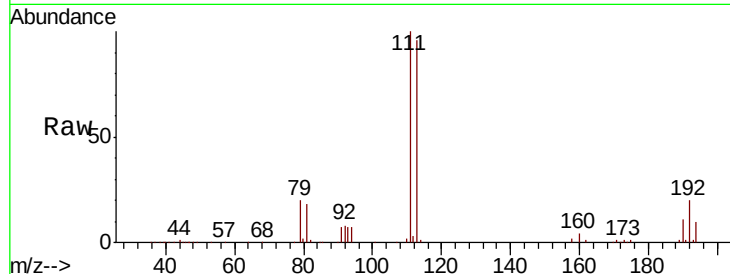
Tot Ion:113 Resp: 91043

Ion Ratio Lower Upper

113 100

111 102.2 82.3 123.5

192 21.8 17.4 26.2



#36

1,1-Dichloropropene

Concen: 5.176 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX011153.D

Acq: 29 Jul 2019 18:09

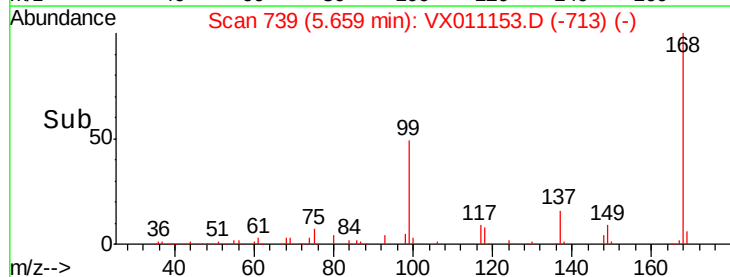
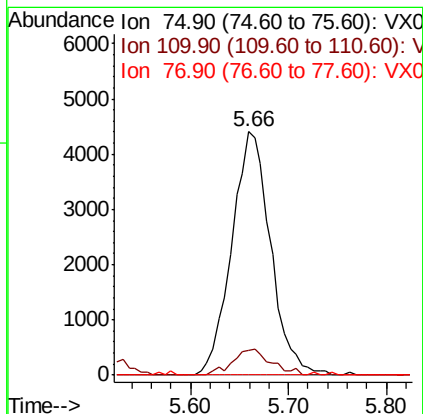
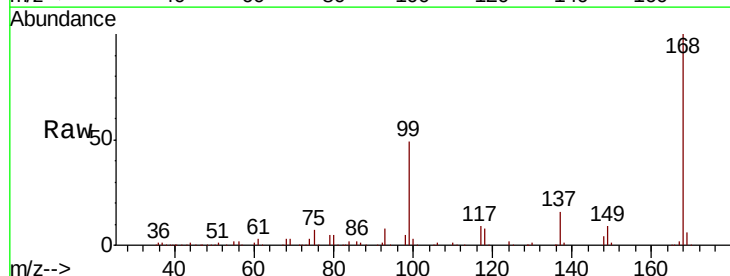
Tgt Ion: 75 Resp: 12128

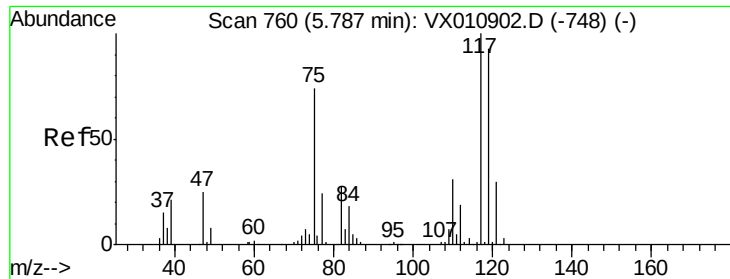
Ion Ratio Lower Upper

75 100

110 10.4 19.9 59.7#

77 0.0 25.0 37.4#

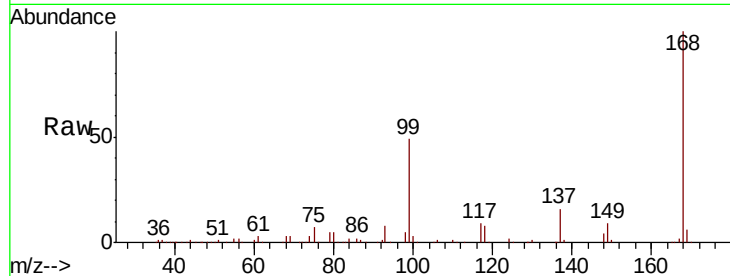




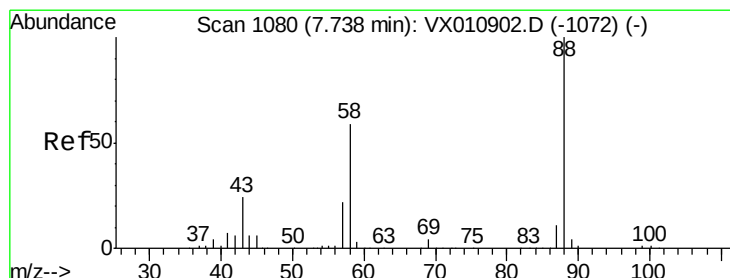
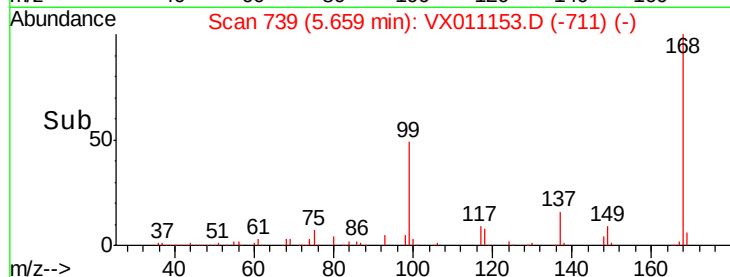
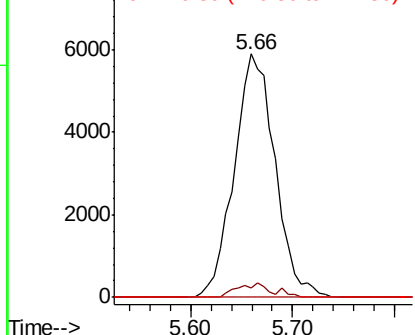
#38
Carbon Tetrachloride
Concen: 6.718 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX011153.D
Acq: 29 Jul 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
Z3-0677

Tot Ion:117 Resp: 16404
Ion Ratio Lower Upper
117 100
119 4.0 74.2 111.2#
121 0.0 24.2 36.2#

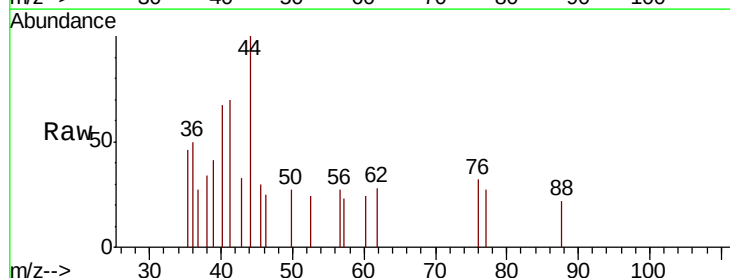


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

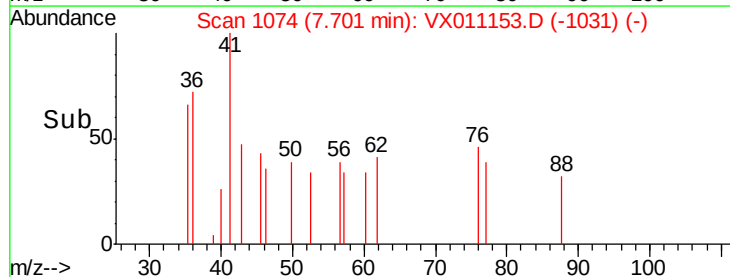
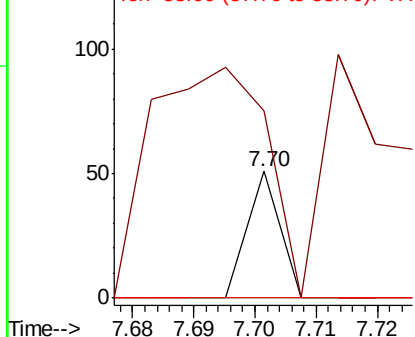


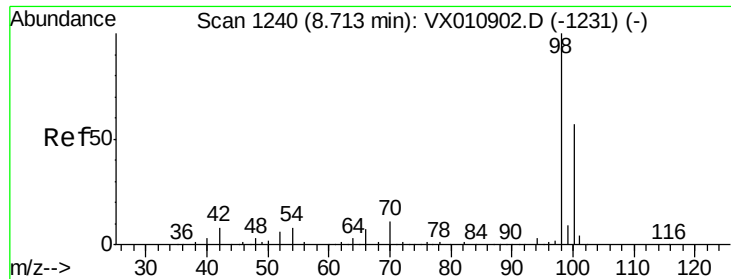
#49
1,4-Dioxane
Concen: 0.353 ug/l
RT: 7.70 min Scan# 1074
Delta R.T. -0.04 min
Lab File: VX011153.D
Acq: 29 Jul 2019 18:09

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 636.8 22.9 34.3#
58 0.0 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

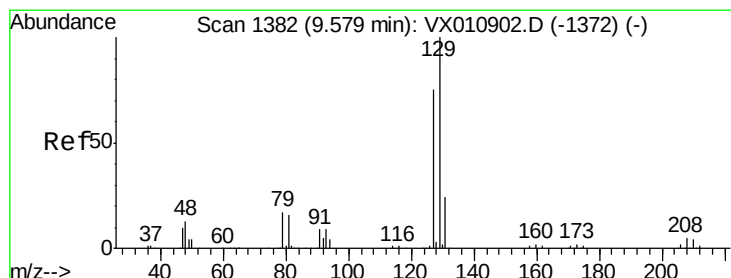
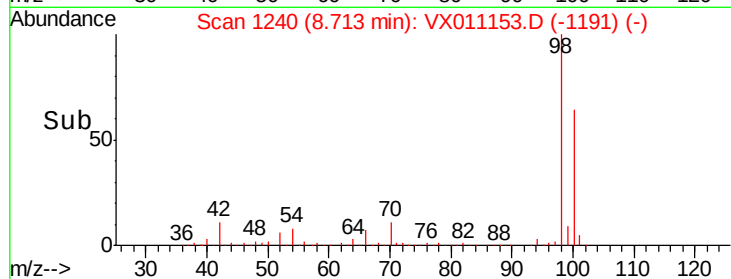
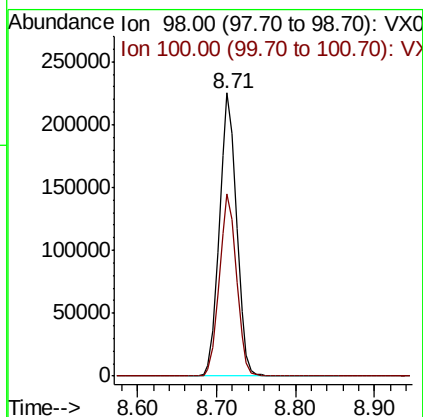
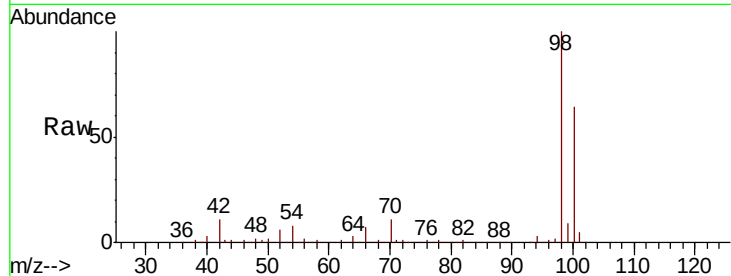




#50
Toluene-d8
Concen: 50.302 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011153.D
Acq: 29 Jul 2019 18:09

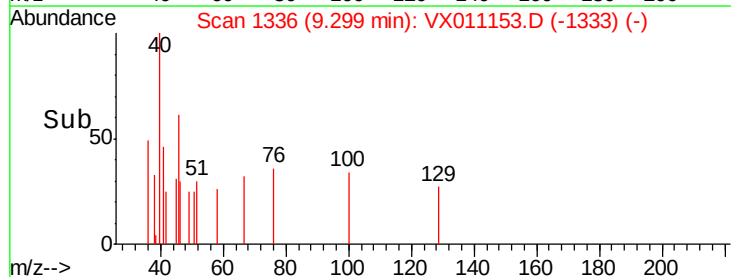
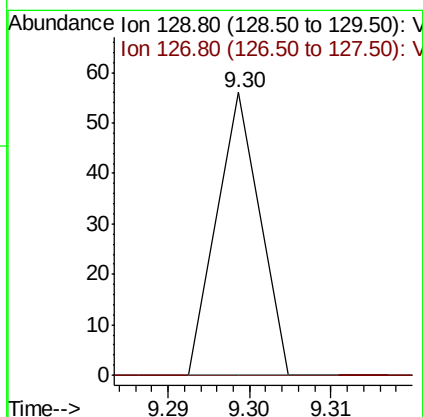
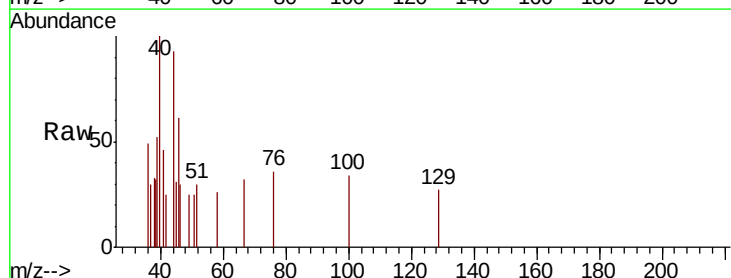
Instrument :
MSVOA_X
ClientSampled :
Z3-0677

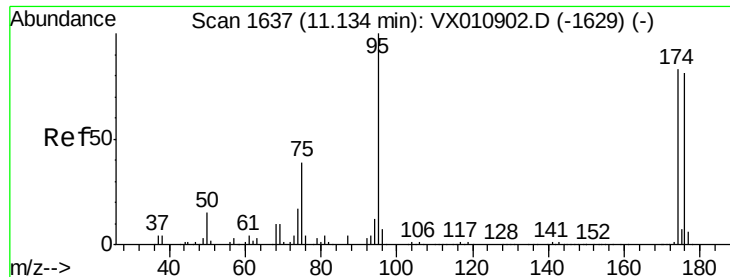
Tot Ion: 98 Resp: 341599
Ion Ratio Lower Upper
98 100
100 64.2 50.6 75.8



#60
Dibromochloromethane
Concen: 2.536 ug/l
RT: 9.30 min Scan# 1336
Delta R.T. -0.28 min
Lab File: VX011153.D
Acq: 29 Jul 2019 18:09

Tgt Ion: 129 Resp: 20
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 46.227 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011153.D

Acq: 29 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

Z3-0677

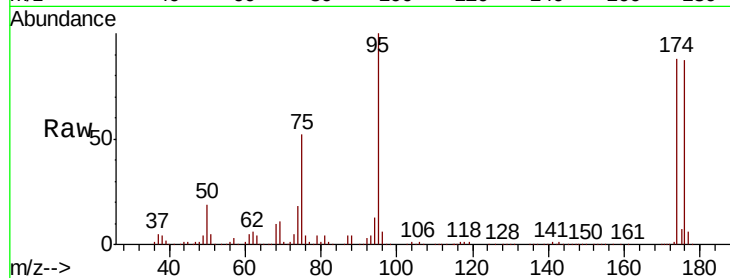
Tot Ion: 95 Resp: 115388

Ion Ratio Lower Upper

95 100

174 91.8 0.0 180.6

176 89.3 0.0 173.8

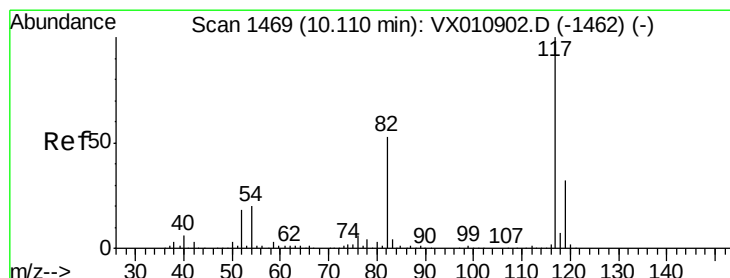
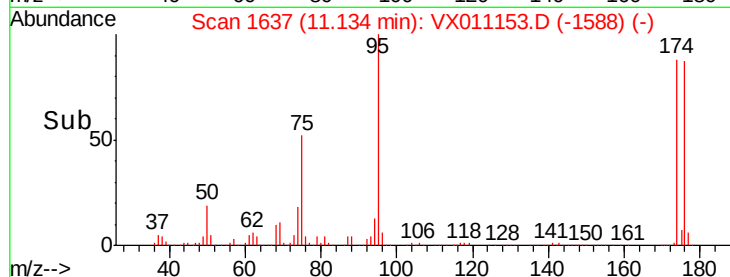
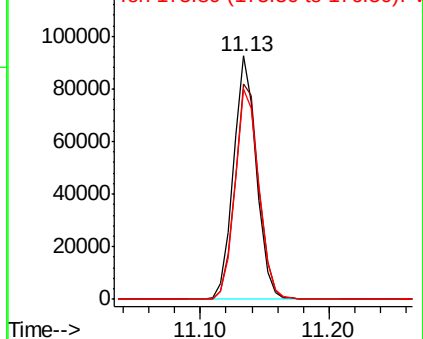


Abundance

Ion 94.90 (94.60 to 95.60): VX011153.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011153.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011153.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011153.D

Acq: 29 Jul 2019 18:09

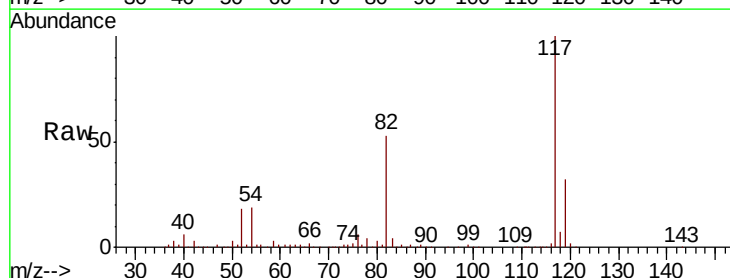
Tgt Ion: 117 Resp: 263563

Ion Ratio Lower Upper

117 100

82 52.9 42.6 63.8

119 32.1 25.9 38.9

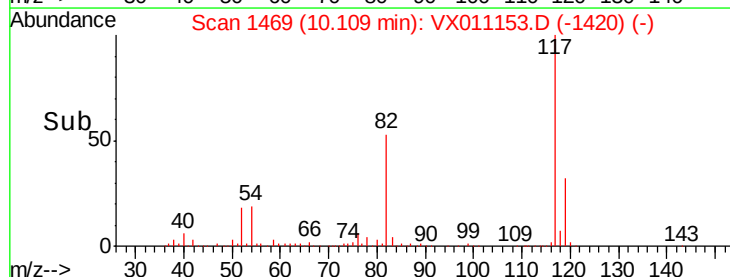
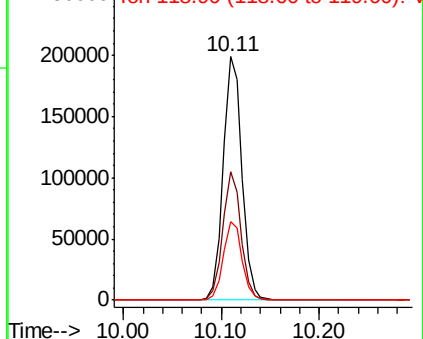


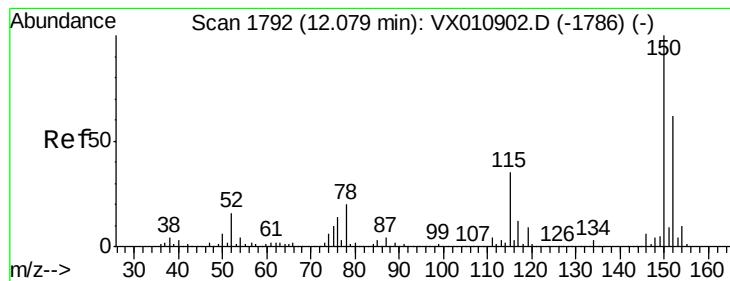
Abundance

Ion 116.90 (116.60 to 117.60): VX011153.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011153.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011153.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: VX011153.D

Acq: 29 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

Z3-0677

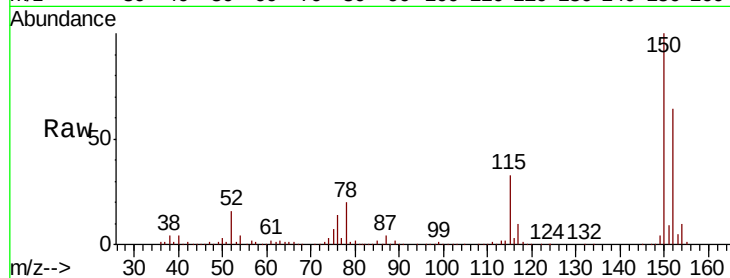
Tot Ion:152 Resp: 118466

Ion Ratio Lower Upper

152 100

115 54.6 39.7 119.1

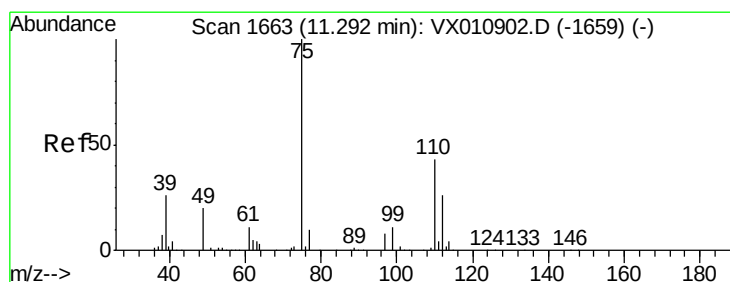
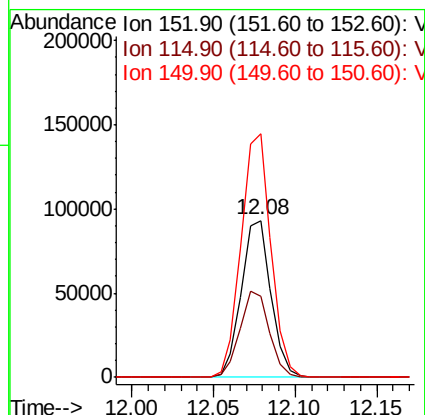
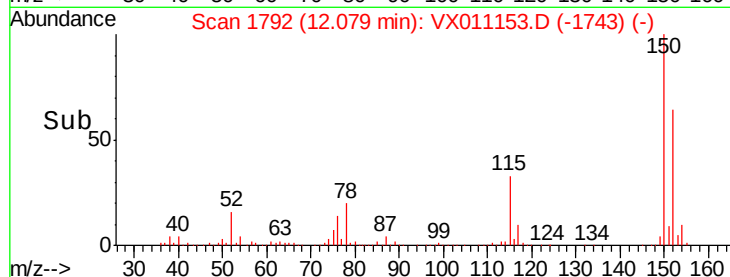
150 156.0 0.0 345.6



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: 27.335 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011153.D

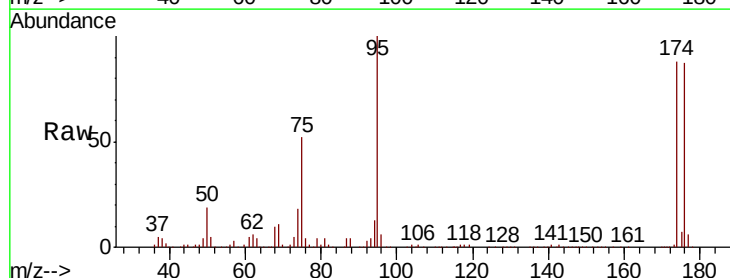
Acq: 29 Jul 2019 18:09

Tgt Ion: 75 Resp: 58437

Ion Ratio Lower Upper

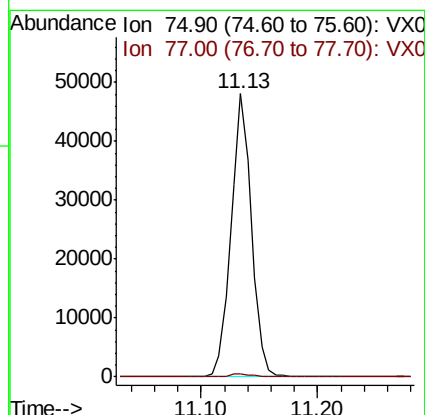
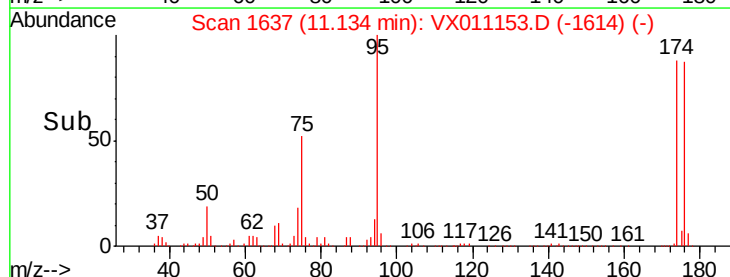
75 100

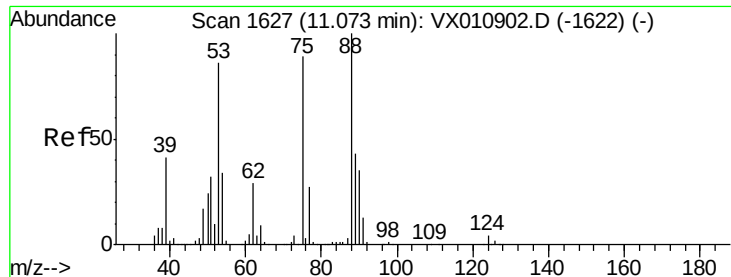
77 1.4 21.3 64.0#



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: 67.723 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011153.D

Acq: 29 Jul 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

Z3-0677

Tot Ion: 75 Resp: 58437

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#

