

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071819\
 Data File : VX010957.D
 Acq On : 18 Jul 2019 14:36
 Operator : JC/SP
 Sample : K3857-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

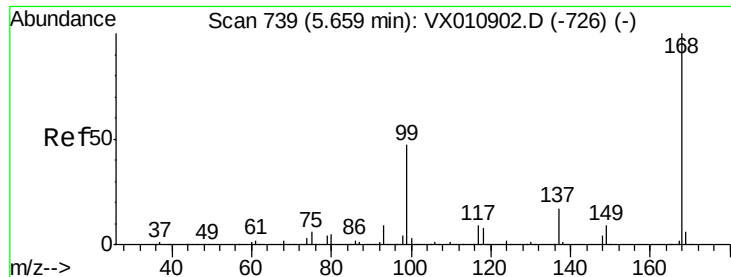
Quant Time: Jul 19 01:32:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	210876	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	336667	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	311530	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	147200	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	112378	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
35) Dibromofluoromethane	5.50	113	102430	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	
50) Toluene-d8	8.71	98	402237	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
62) 4-Bromofluorobenzene	11.13	95	140216	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	27	0.558	ug/l #	43
3) Chloromethane	1.33	50	811	0.418	ug/l #	86
5) Bromomethane	1.66	94	546	0.490	ug/l #	41
6) Chloroethane	1.73	64	327	0.260	ug/l #	78
8) Diethyl Ether	2.18	74	368	0.319	ug/l	82
11) Tert butyl alcohol	3.05	59	745	1.426	ug/l #	73
13) Acrolein	2.30	56	87	0.288	ug/l #	41
16) Acetone	2.45	43	4633	4.573	ug/l	93
20) Methylene Chloride	2.85	84	1087	0.506	ug/l #	92
25) 2-Butanone	4.70	43	1806	1.242	ug/l #	86
29) Tetrahydrofuran	5.13	42	12155	13.193	ug/l	95
36) 1,1-Dichloropropene	5.66	75	14119	5.106	ug/l #	49
38) Carbon Tetrachloride	5.66	117	19383	6.726	ug/l #	17
41) Methacrylonitrile	5.13	41	6357	3.955	ug/l #	20
49) 1,4-Dioxane	7.77	88	22	0.347	ug/l #	1
60) Dibromochloromethane	9.34	129	21	2.535	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	70188	26.423	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	70188	65.596	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX010957.D

Acq: 18 Jul 2019 14:36

Instrument :

MSVOA_X

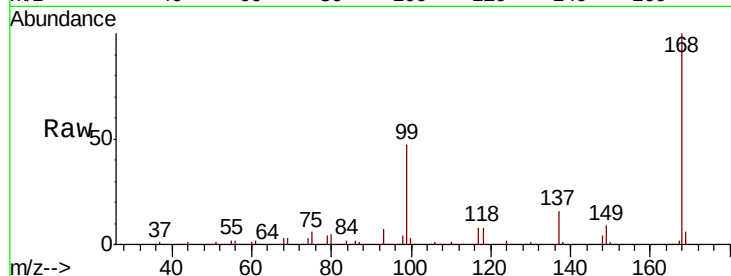
ClientSampleId :

Tot Ion:168 Resp: 210876

Ion Ratio Lower Upper

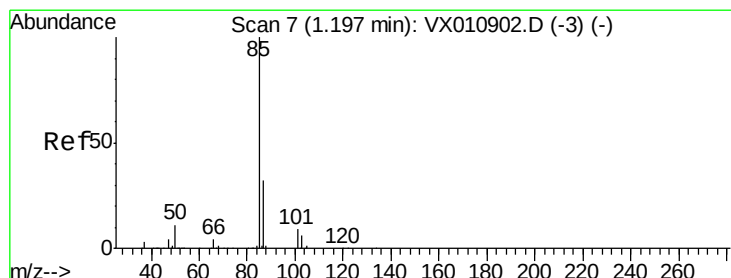
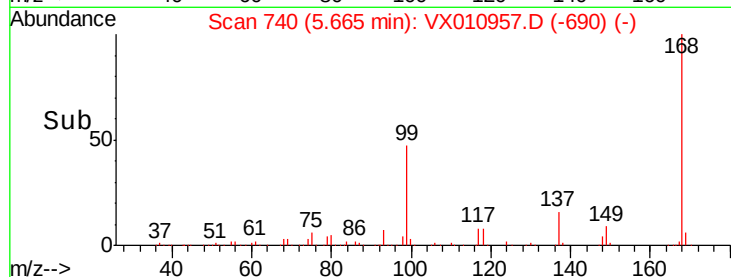
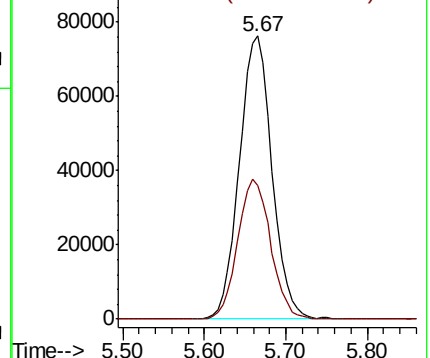
168 100

99 47.2 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: 0.558 ug/l

RT: 1.18 min Scan# 5

Delta R.T. -0.01 min

Lab File: VX010957.D

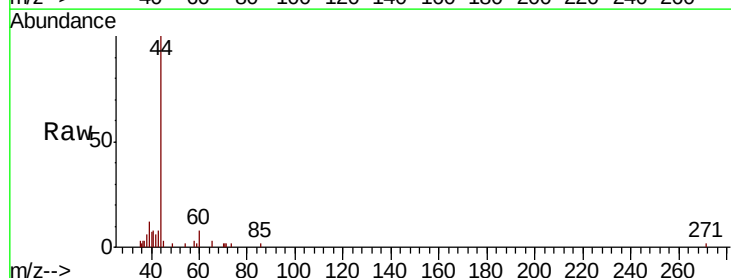
Acq: 18 Jul 2019 14:36

Tgt Ion: 85 Resp: 27

Ion Ratio Lower Upper

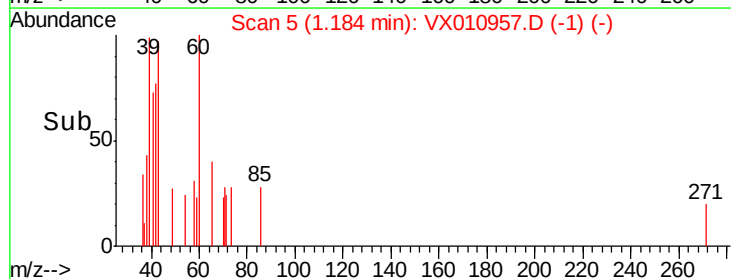
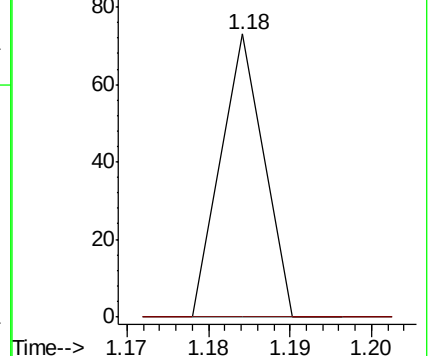
85 100

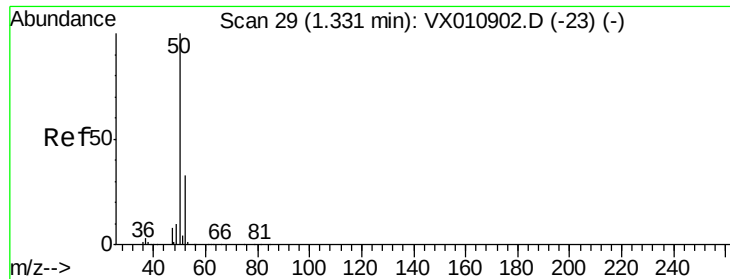
87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.418 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX010957.D

Acq: 18 Jul 2019 14:36

Instrument :

MSVOA_X

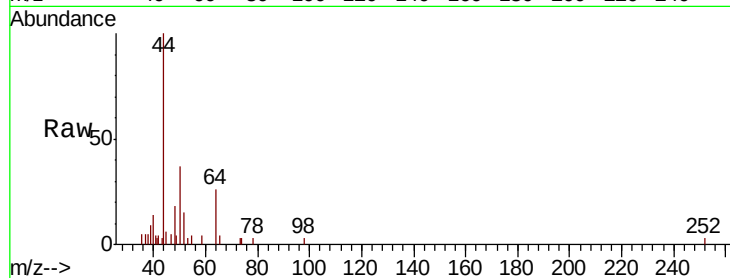
ClientSampleId :

Tot Ion: 50 Resp: 811

Ion Ratio Lower Upper

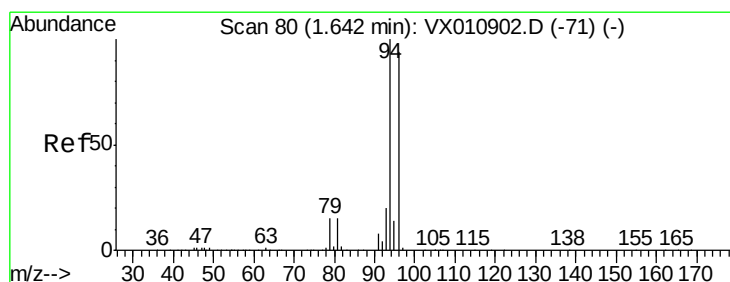
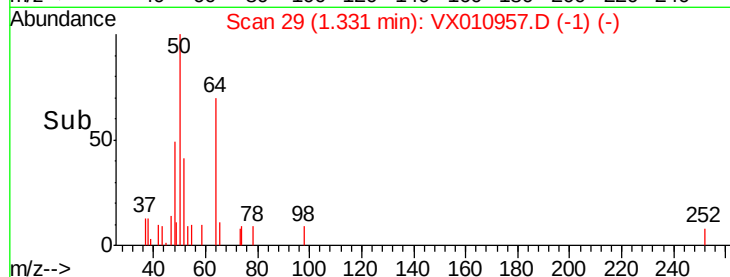
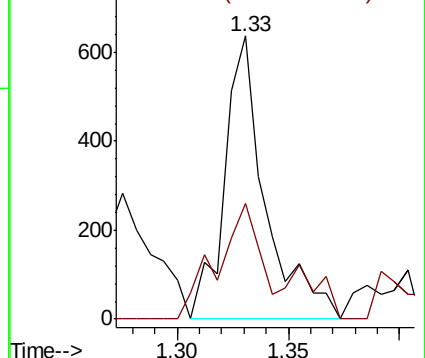
50 100

52 41.0 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: 0.490 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX010957.D

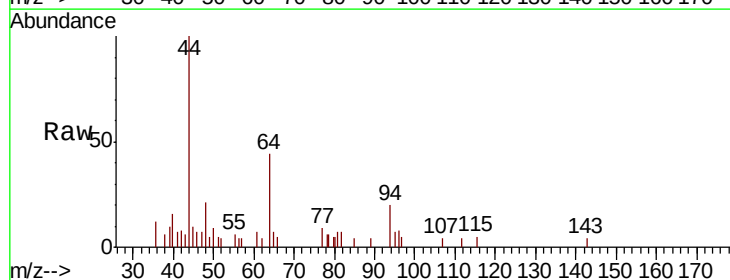
Acq: 18 Jul 2019 14:36

Tgt Ion: 94 Resp: 546

Ion Ratio Lower Upper

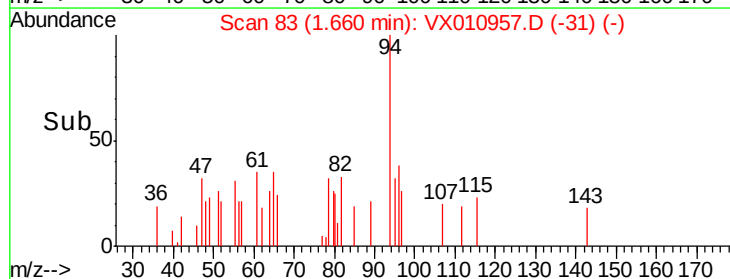
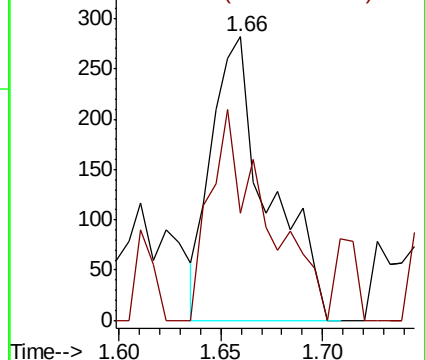
94 100

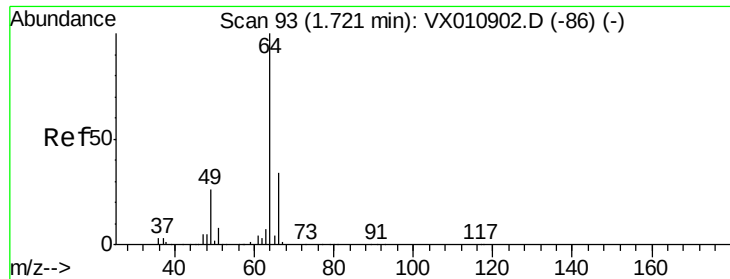
96 37.6 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.260 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX010957.D

Acq: 18 Jul 2019 14:36

Instrument :

MSVOA_X

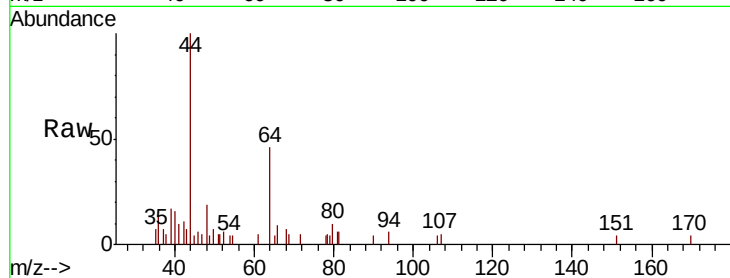
ClientSampleId :

Tot Ion: 64 Resp: 327

Ion Ratio Lower Upper

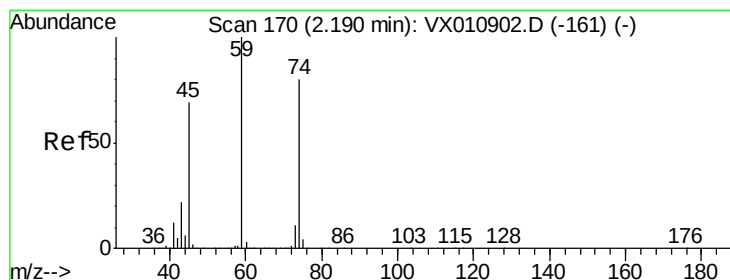
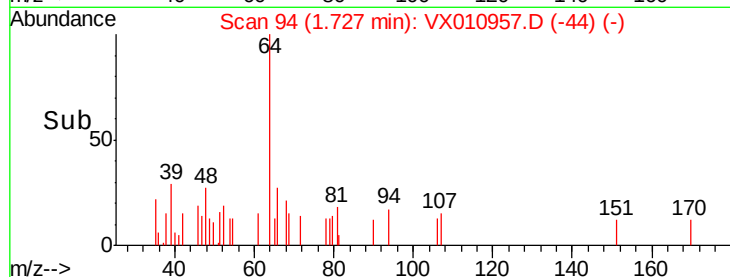
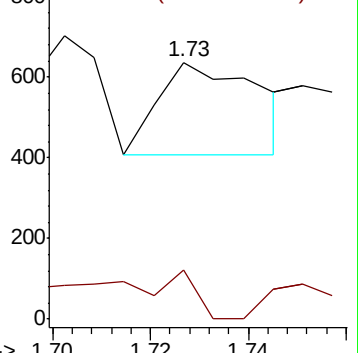
64 100

66 21.2 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: 0.319 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX010957.D

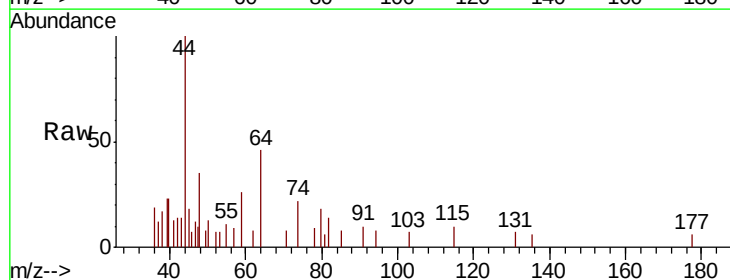
Acq: 18 Jul 2019 14:36

Tgt Ion: 74 Resp: 368

Ion Ratio Lower Upper

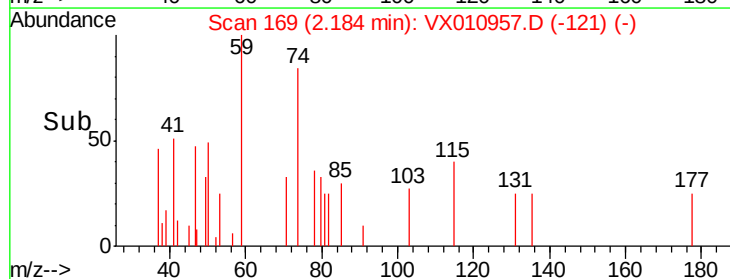
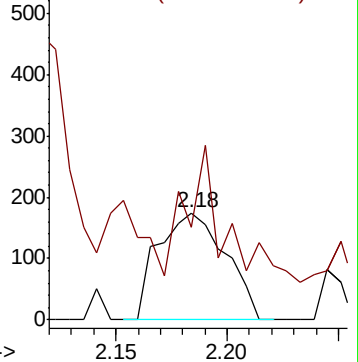
74 100

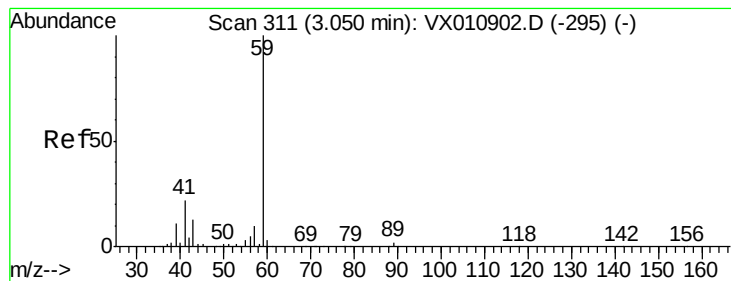
45 73.6 45.5 136.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



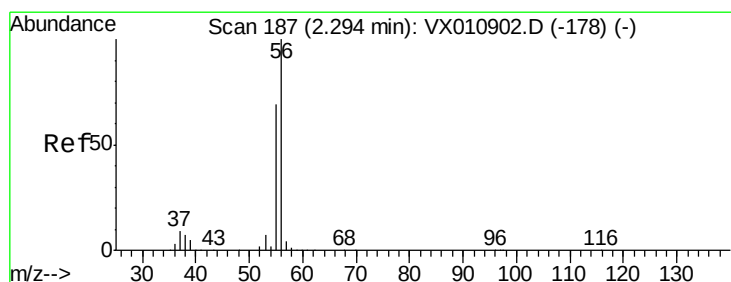
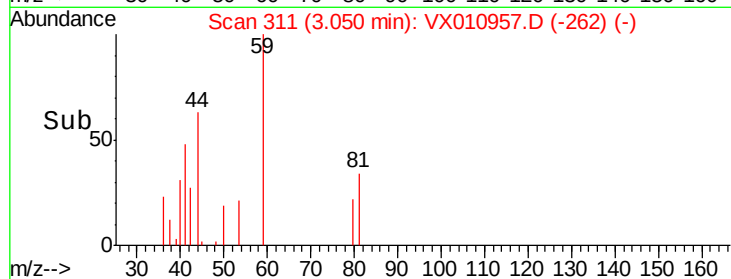
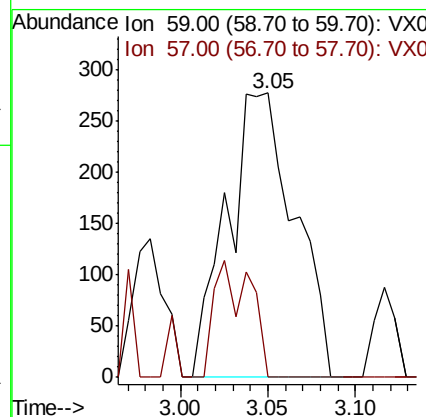
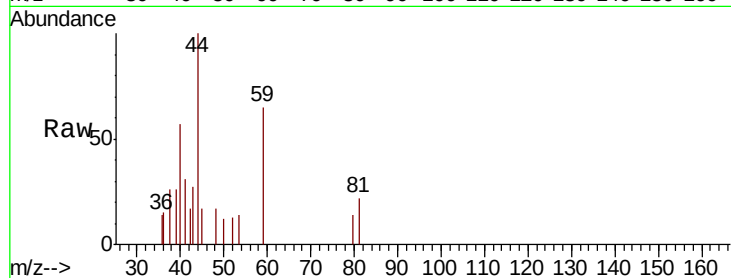


#11

Tert butyl alcohol
 Concen: 1.426 ug/l
 RT: 3.05 min Scan# 311
 Delta R.T. -0.00 min
 Lab File: VX010957.D
 Acq: 18 Jul 2019 14:36

Instrument :
 MSVOA_X
 ClientSampled :

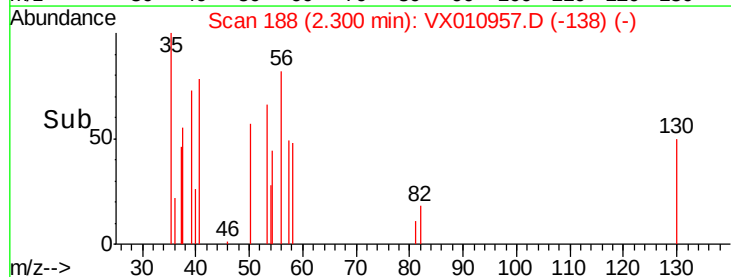
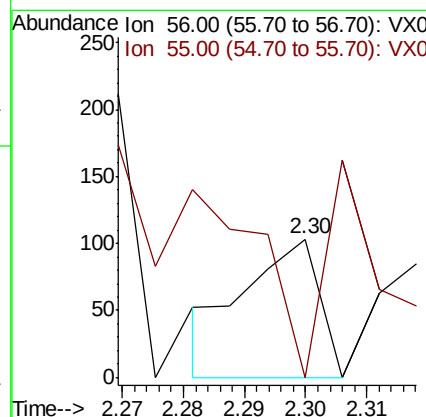
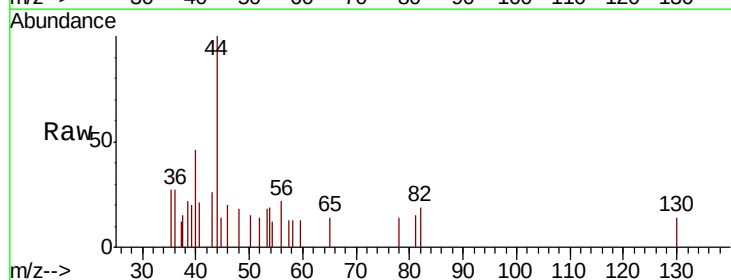
Tot Ion: 59 Resp: 745
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

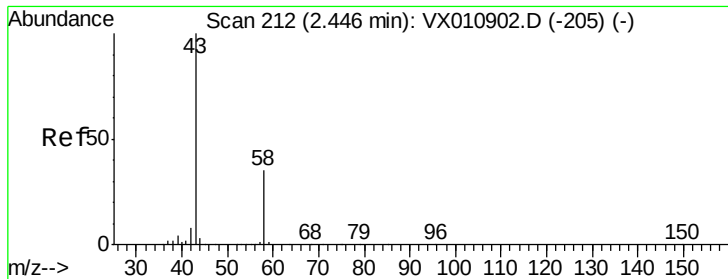


#13

Acrolein
 Concen: 0.288 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX010957.D
 Acq: 18 Jul 2019 14:36

Tgt Ion: 56 Resp: 87
 Ion Ratio Lower Upper
 56 100
 55 118.4 55.9 83.9#





#16

Acetone

Concen: 4.573 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010957.D

Acq: 18 Jul 2019 14:36

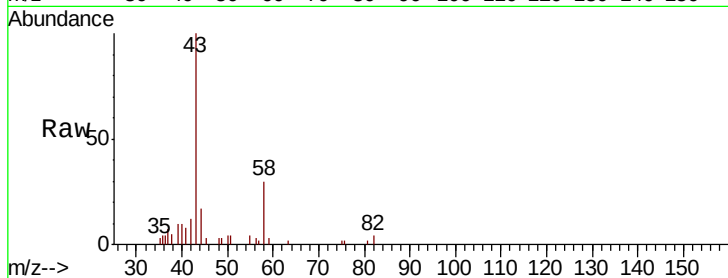
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 4633

Ion Ratio Lower Upper

43 100

58 30.4 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

2500

2000

1500

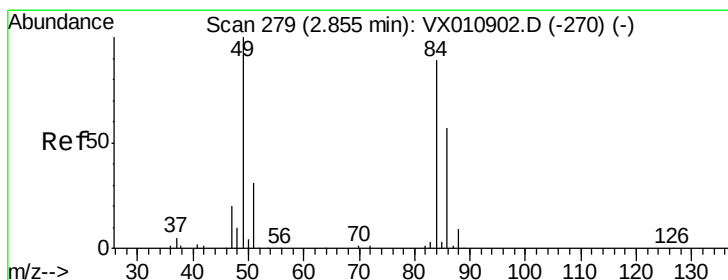
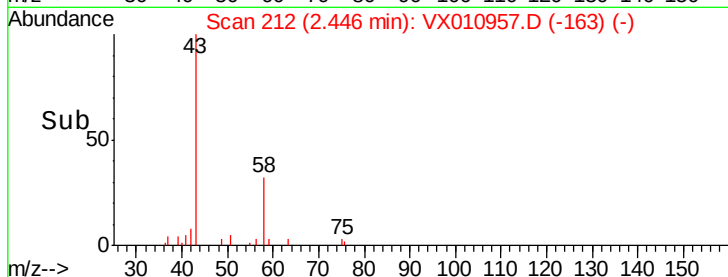
1000

500

0

Time-->

2.40 2.45 2.50



#20

Methylene Chloride

Concen: 0.506 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX010957.D

Acq: 18 Jul 2019 14:36

Tgt Ion: 84 Resp: 1087

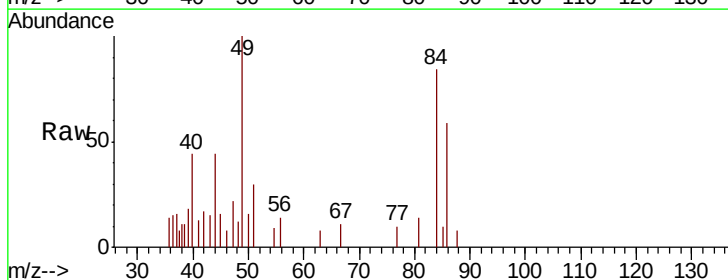
Ion Ratio Lower Upper

84 100

49 119.3 89.9 134.9

51 25.5 27.8 41.6#

86 70.0 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

1000

800

600

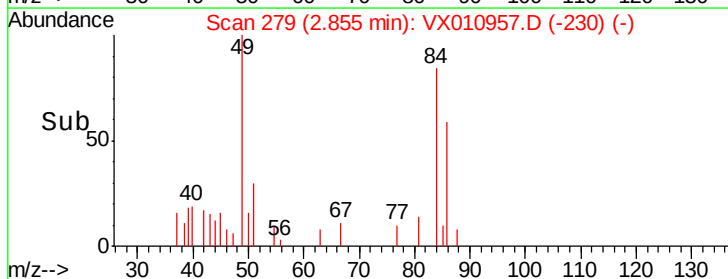
400

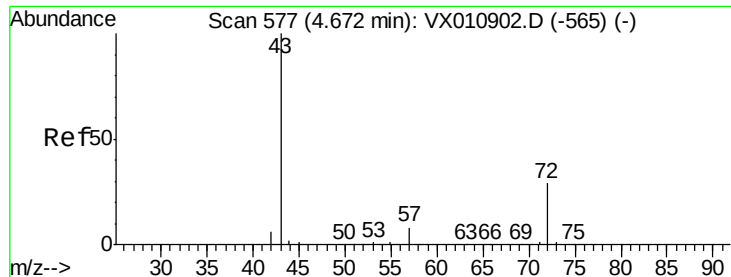
200

0

Time-->

2.80 2.85 2.90





#25

2-Butanone

Concen: 1.242 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX010957.D

Acq: 18 Jul 2019 14:36

Instrument :

MSVOA_X

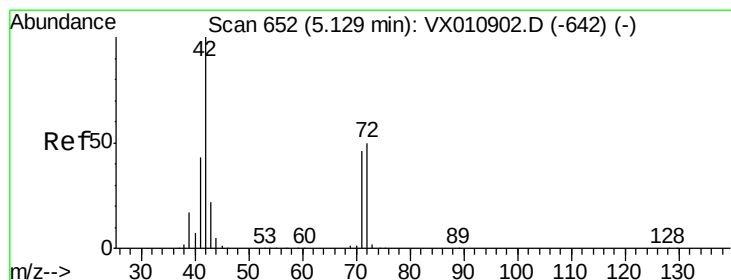
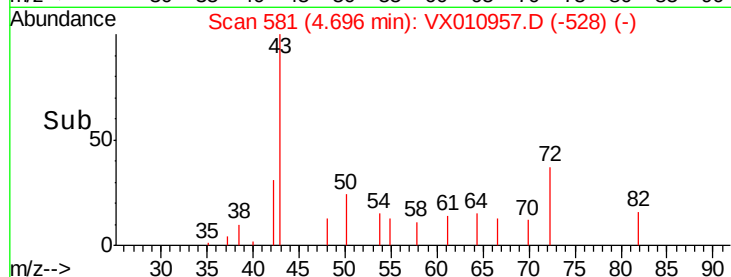
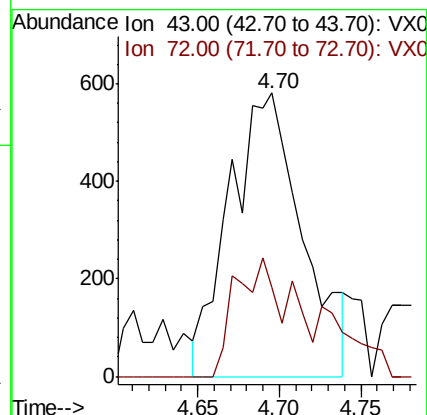
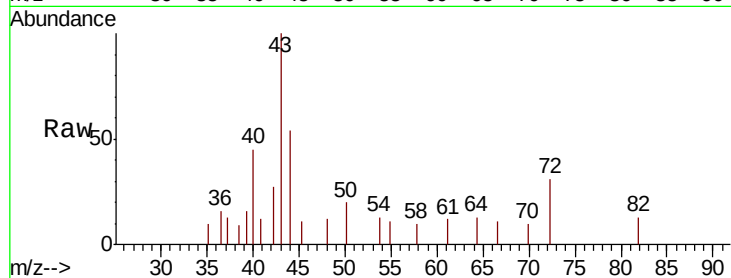
ClientSampled :

Tot Ion: 43 Resp: 1806

Ion Ratio Lower Upper

43 100

72 36.0 23.0 34.6#



#29

Tetrahydrofuran

Concen: 13.193 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX010957.D

Acq: 18 Jul 2019 14:36

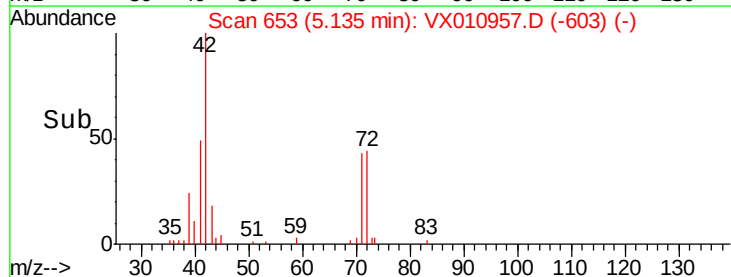
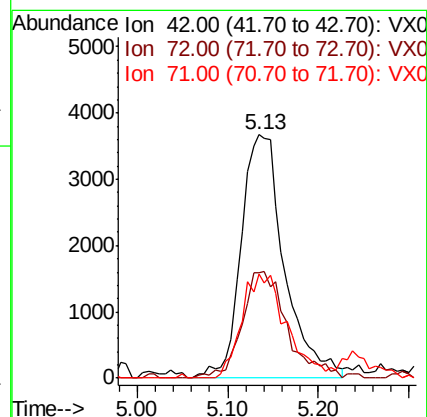
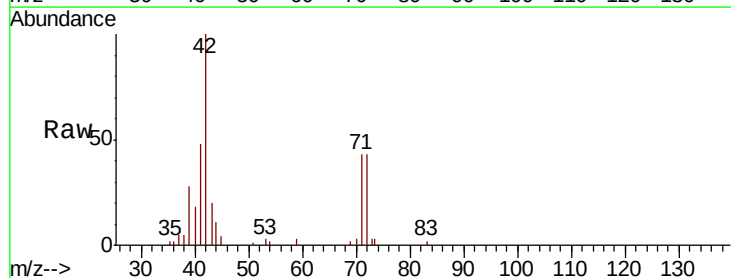
Tgt Ion: 42 Resp: 12155

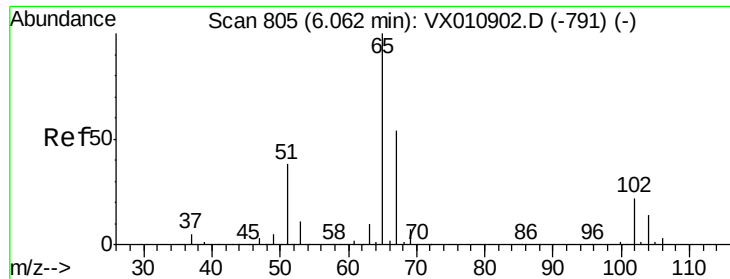
Ion Ratio Lower Upper

42 100

72 45.5 39.8 59.8

71 44.0 37.0 55.4

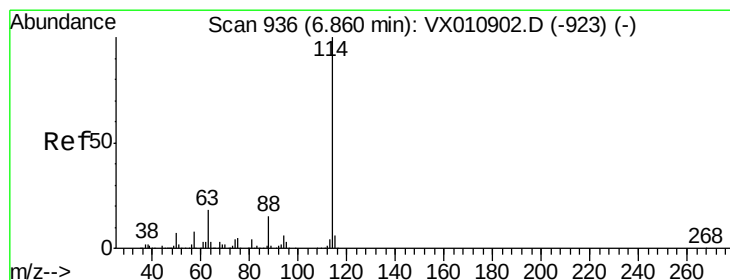
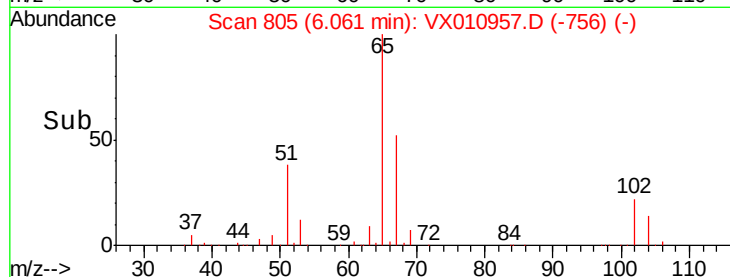
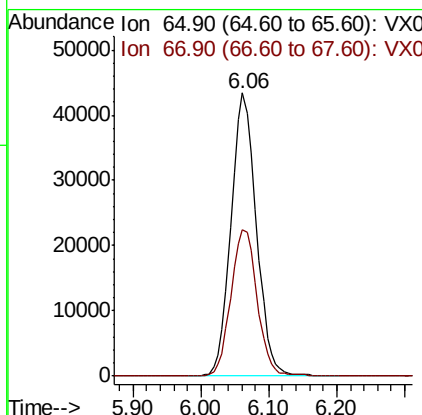
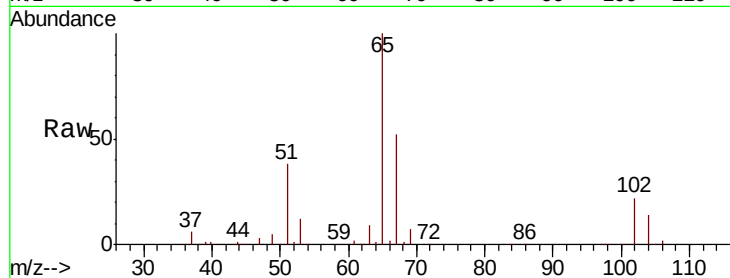




#33
 1,2-Dichloroethane-d4
 Concen: 50.093 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX010957.D
 Acq: 18 Jul 2019 14:36

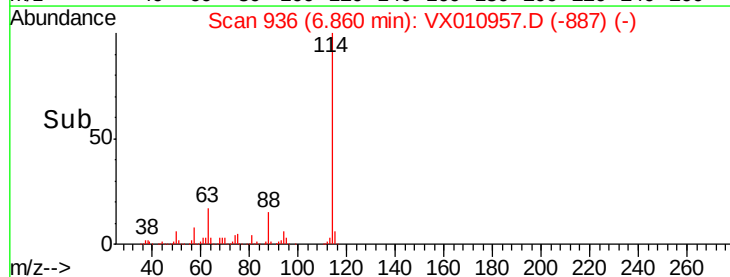
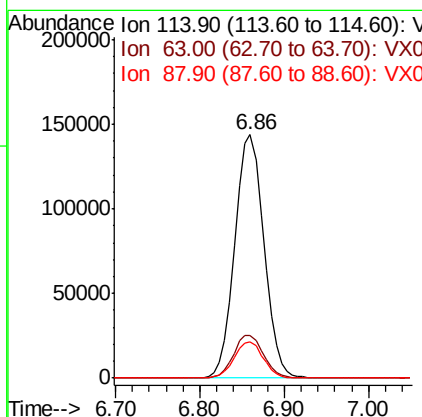
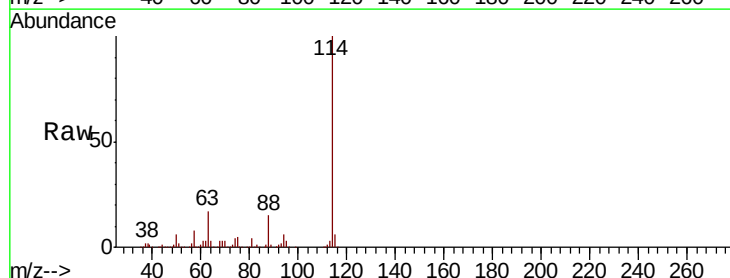
Instrument :
 MSVOA_X
 ClientSampleId :

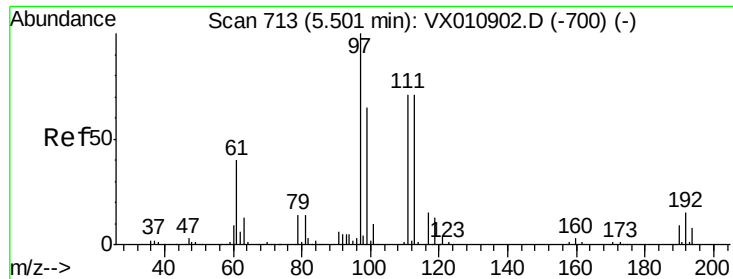
Tot Ion: 65 Resp: 112378
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX010957.D
 Acq: 18 Jul 2019 14:36

Tgt Ion: 114 Resp: 336667
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 35.6
 88 14.8 0.0 29.8





#35

Dibromofluoromethane

Concen: 47.934 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010957.D

Acq: 18 Jul 2019 14:36

Instrument :

MSVOA_X

ClientSampleId :

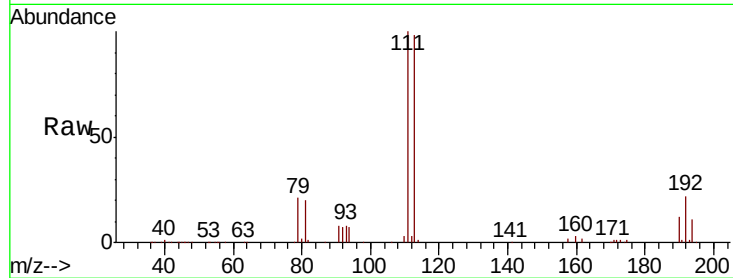
Tot Ion:113 Resp: 102430

Ion Ratio Lower Upper

113 100

111 103.2 82.3 123.5

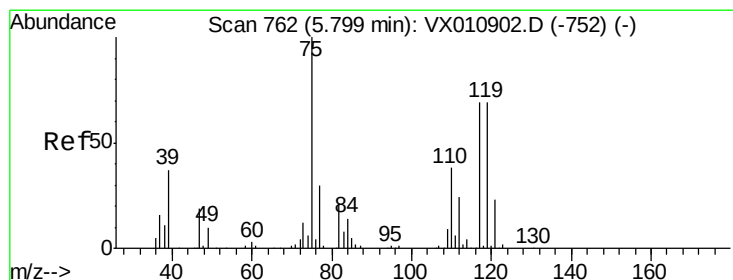
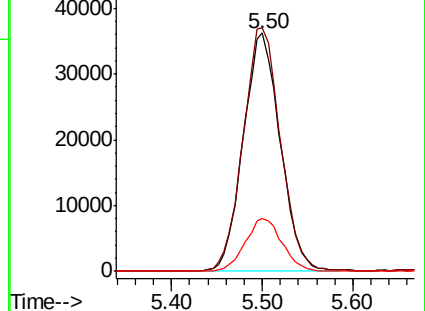
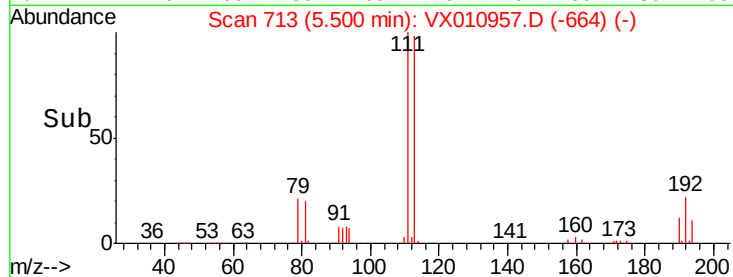
192 22.1 17.4 26.2



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: 5.106 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010957.D

Acq: 18 Jul 2019 14:36

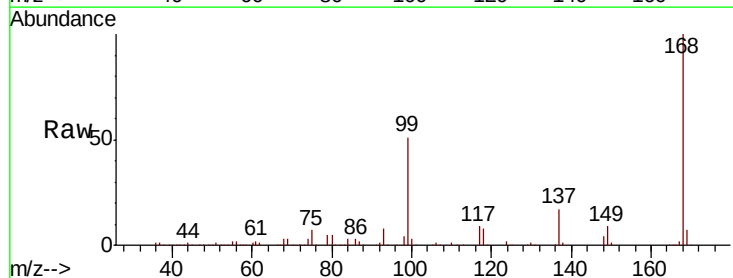
Tgt Ion: 75 Resp: 14119

Ion Ratio Lower Upper

75 100

110 10.9 19.9 59.7#

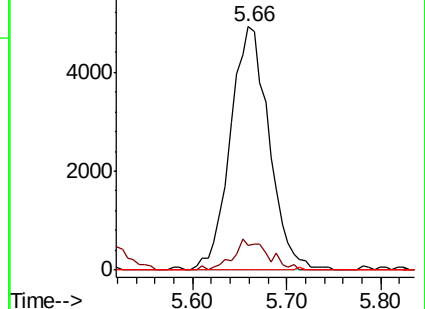
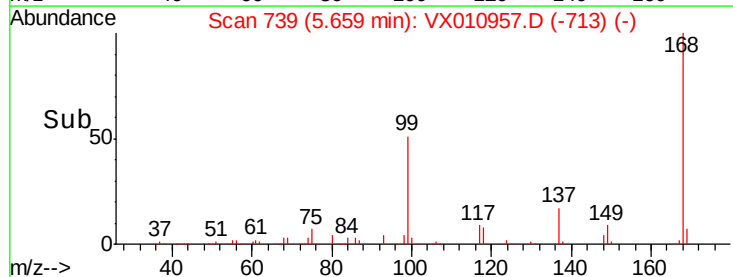
77 0.0 25.0 37.4#

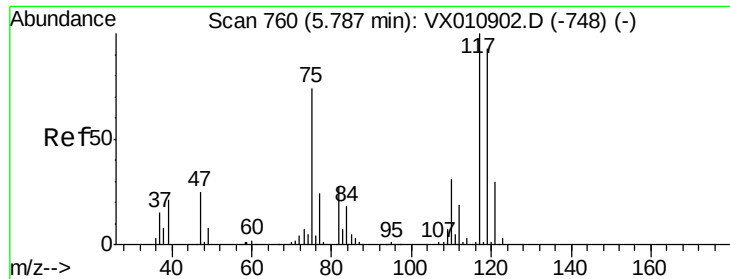


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

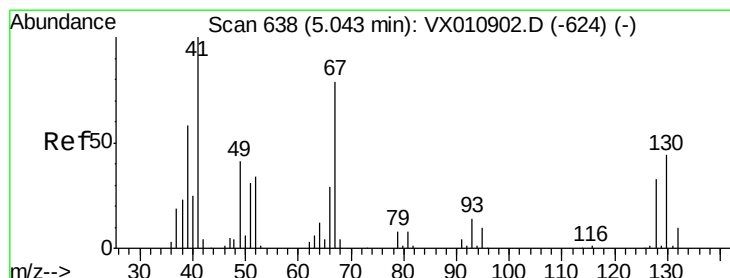
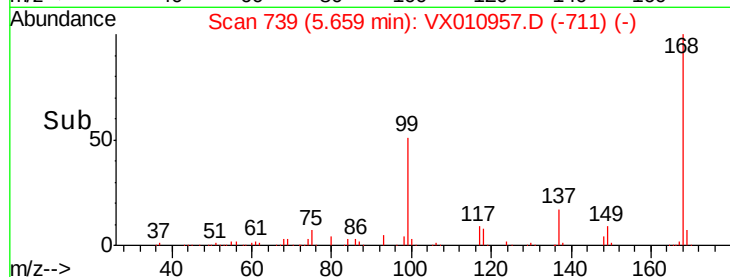
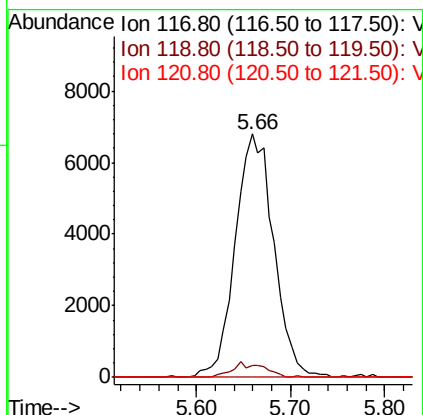
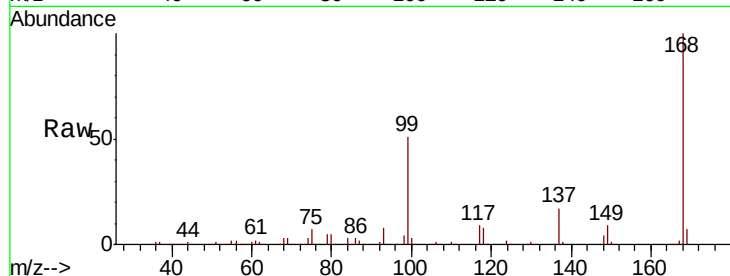




#38
Carbon Tetrachloride
Concen: 6.726 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX010957.D
Acq: 18 Jul 2019 14:36

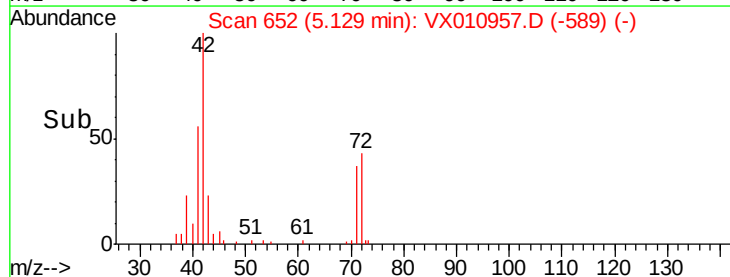
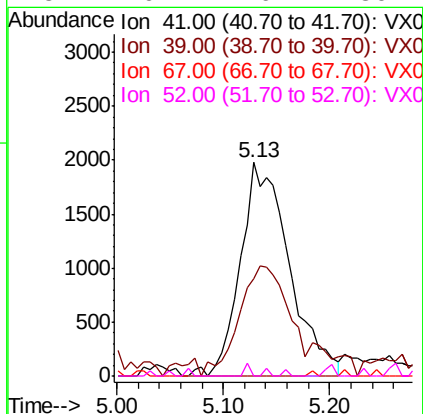
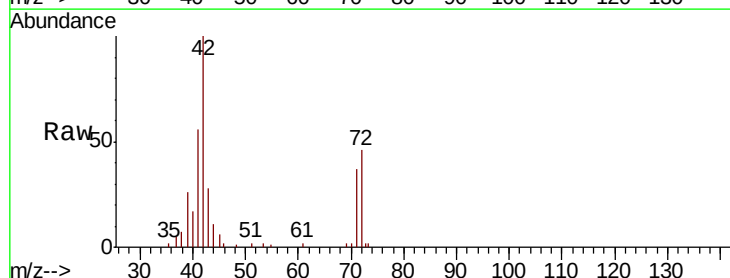
Instrument :
MSVOA_X
ClientSampled :

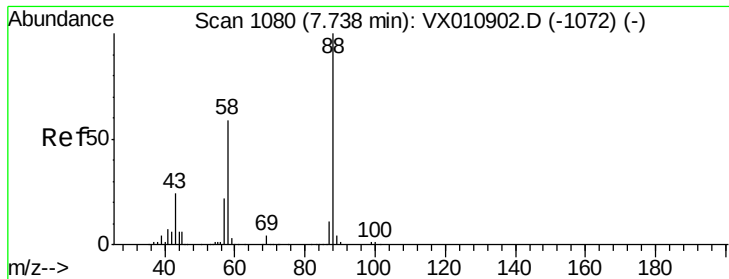
Tot Ion:117 Resp: 19383
Ion Ratio Lower Upper
117 100
119 4.9 74.2 111.2#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 3.955 ug/l
RT: 5.13 min Scan# 652
Delta R.T. 0.09 min
Lab File: VX010957.D
Acq: 18 Jul 2019 14:36

Tgt Ion: 41 Resp: 6357
Ion Ratio Lower Upper
41 100
39 0.0 45.4 68.2#
67 0.0 65.9 98.9#
52 0.7 26.2 39.2#

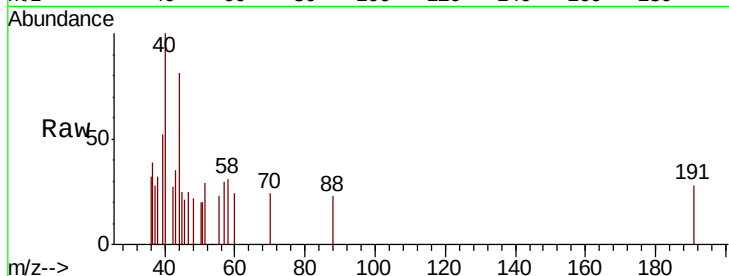




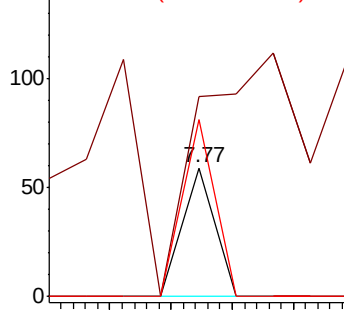
#49
1,4-Dioxane
Concen: 0.347 ug/l
RT: 7.77 min Scan# 1086
Delta R.T. 0.04 min
Lab File: VX010957.D
Acq: 18 Jul 2019 14:36

Instrument :
MSVOA_X
ClientSampled :

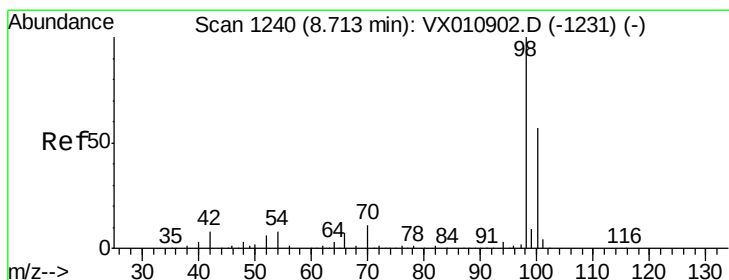
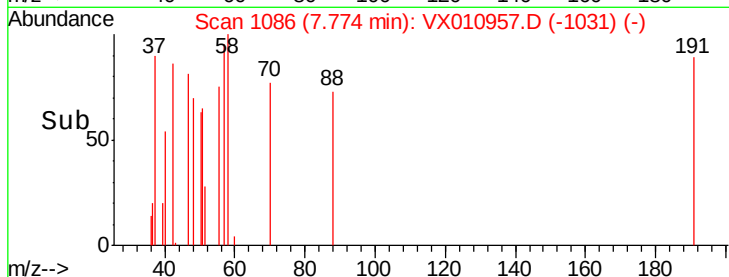
Tot Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 777.3 22.9 34.3#
58 136.4 49.8 74.8#



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

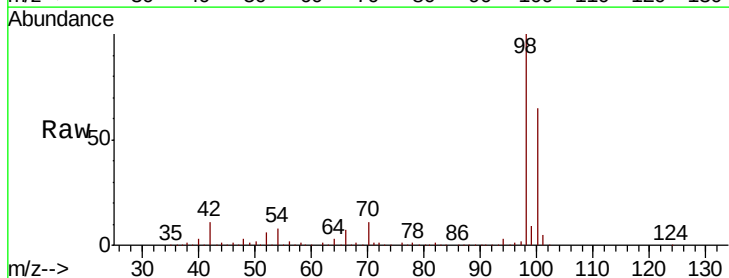


Time-->

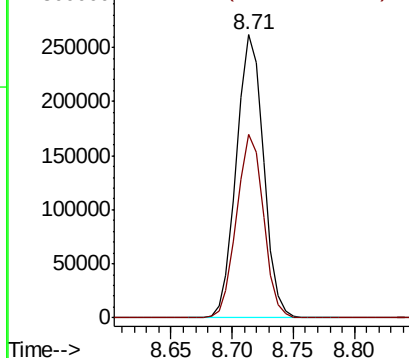


#50
Toluene-d8
Concen: 50.187 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX010957.D
Acq: 18 Jul 2019 14:36

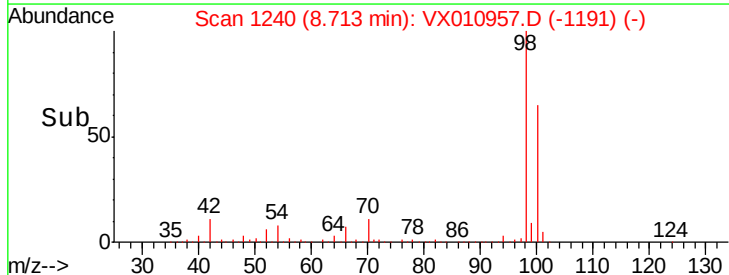
Tgt Ion: 98 Resp: 402237
Ion Ratio Lower Upper
98 100
100 64.3 50.6 75.8

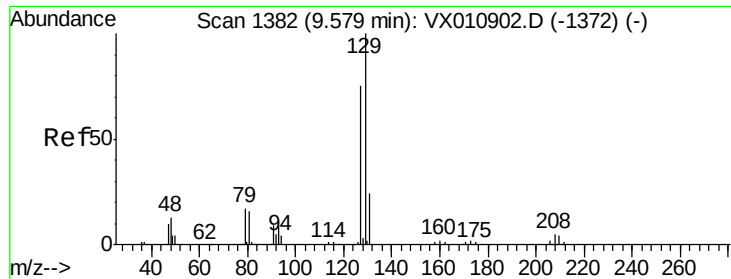


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0



Time-->





#60

Dibromochloromethane

Concen: 2.535 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010957.D

Acq: 18 Jul 2019 14:36

Instrument :

MSVOA_X

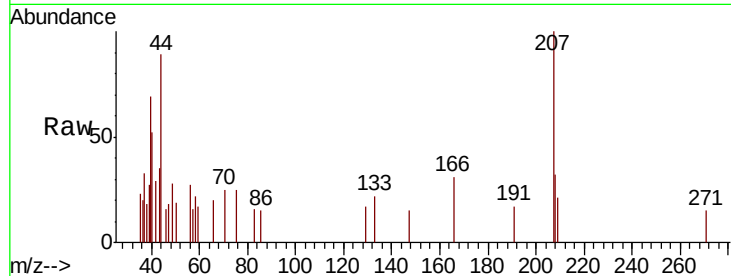
ClientSampleId :

Tot Ion:129 Resp: 21

Ion Ratio Lower Upper

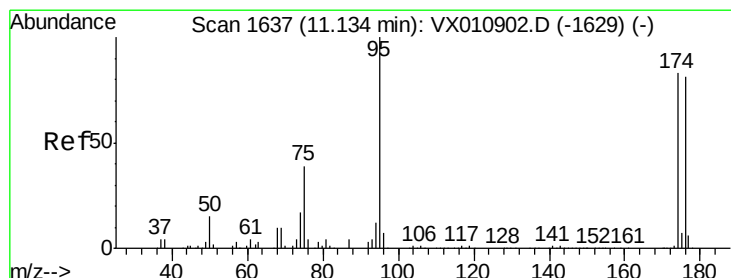
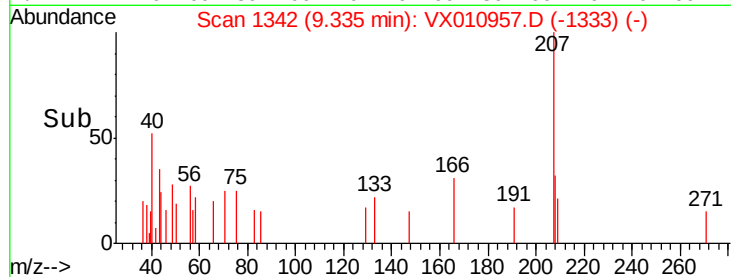
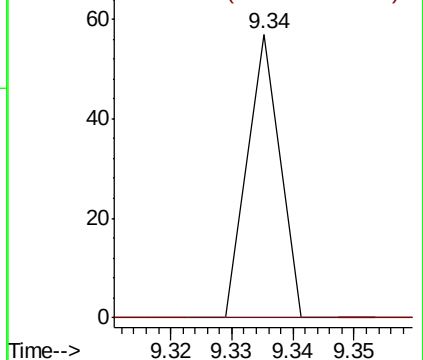
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.596 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010957.D

Acq: 18 Jul 2019 14:36

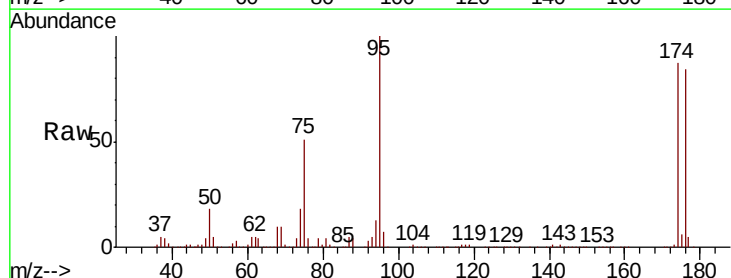
Tgt Ion: 95 Resp: 140216

Ion Ratio Lower Upper

95 100

174 90.8 0.0 180.6

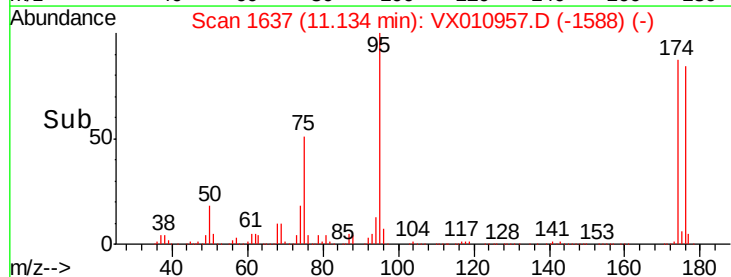
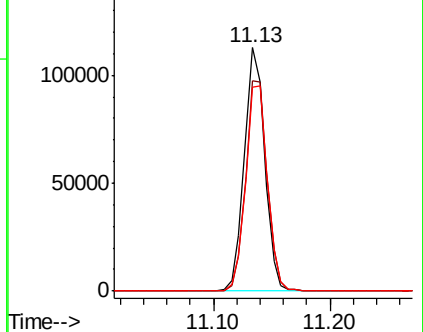
176 89.4 0.0 173.8

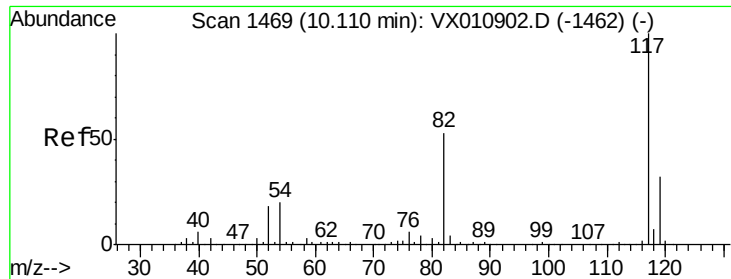


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

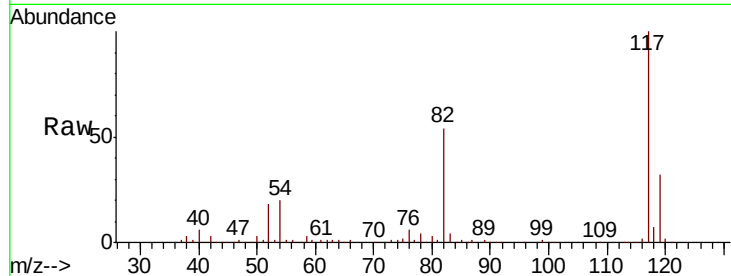




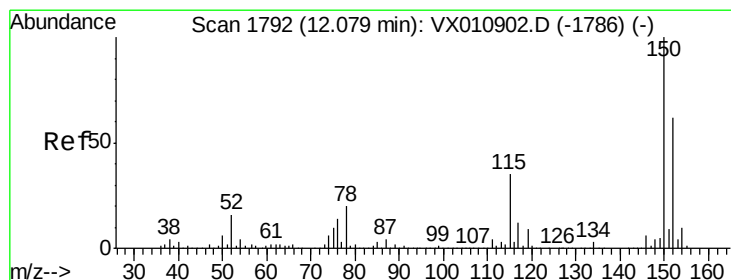
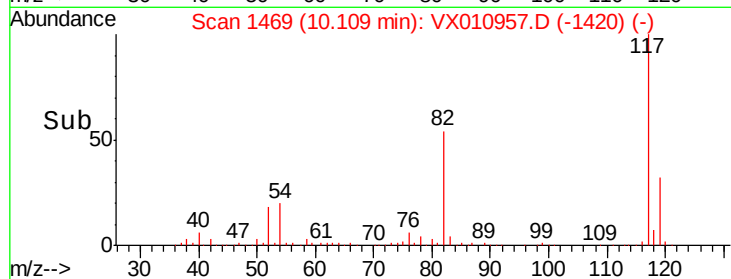
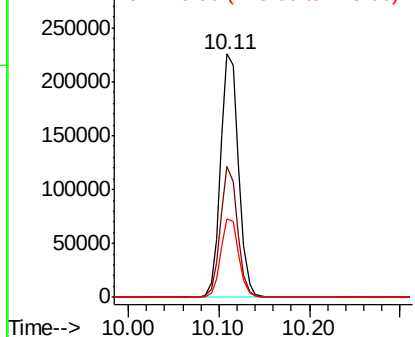
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010957.D
Acq: 18 Jul 2019 14:36

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 311530
Ion Ratio Lower Upper
117 100
82 53.7 42.6 63.8
119 32.0 25.9 38.9

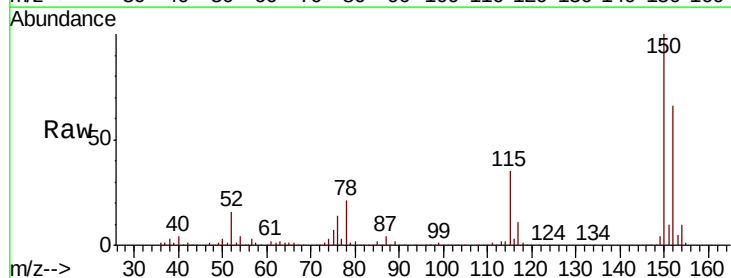


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

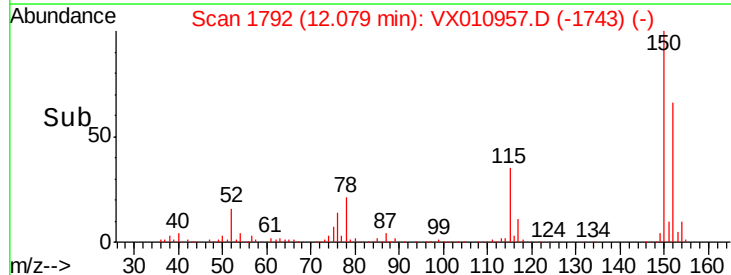
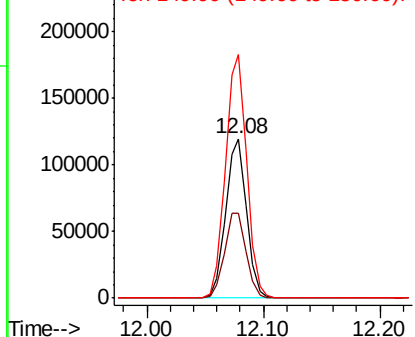


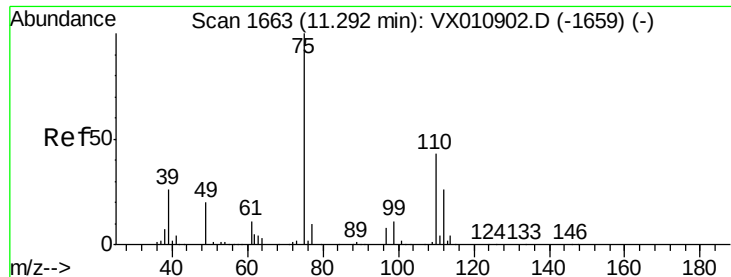
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010957.D
Acq: 18 Jul 2019 14:36

Tgt Ion:152 Resp: 147200
Ion Ratio Lower Upper
152 100
115 55.3 39.7 119.1
150 156.1 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

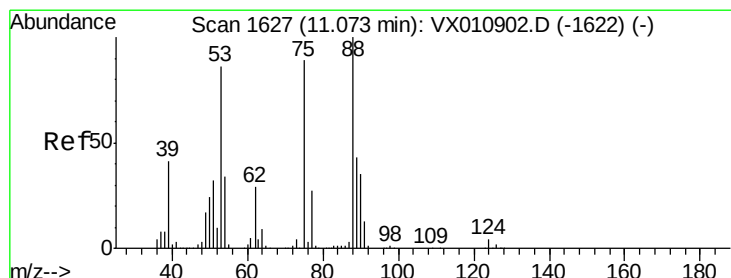
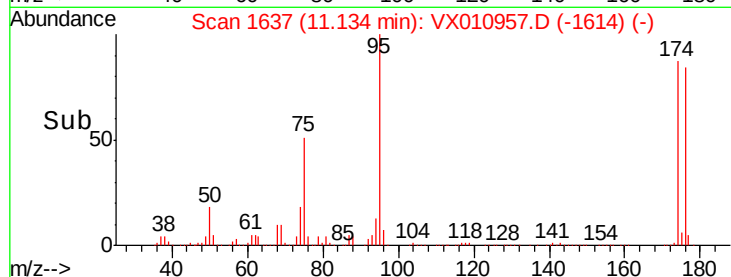
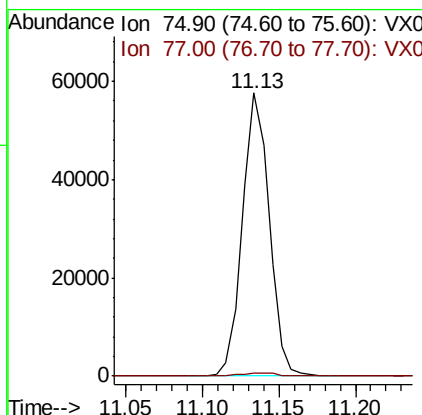
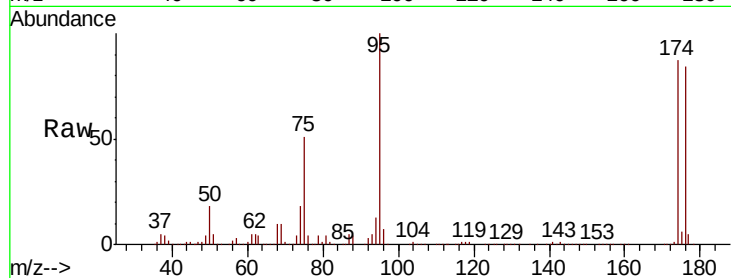




#76
 1,2,3-Trichloropropane
 Concen: 26.423 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010957.D
 Acq: 18 Jul 2019 14:36

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 70188
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.3 64.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.596 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010957.D
 Acq: 18 Jul 2019 14:36

Tgt Ion: 75 Resp: 70188
 Ion Ratio Lower Upper
 75 100
 53 0.3 76.7 115.1#
 89 0.0 38.5 57.7#

