

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060319\
 Data File : VX010042.D
 Acq On : 03 Jun 2019 17:34
 Operator : JC/SP
 Sample : K3139-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 04 03:41:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	172946	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	276009	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	254213	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113488	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	114581	46.90	ug/l	0.00
Spiked Amount			Recovery	=	93.80%	
35) Dibromofluoromethane	5.50	113	84774	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
50) Toluene-d8	8.71	98	355505	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
62) 4-Bromofluorobenzene	11.13	95	123055	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	

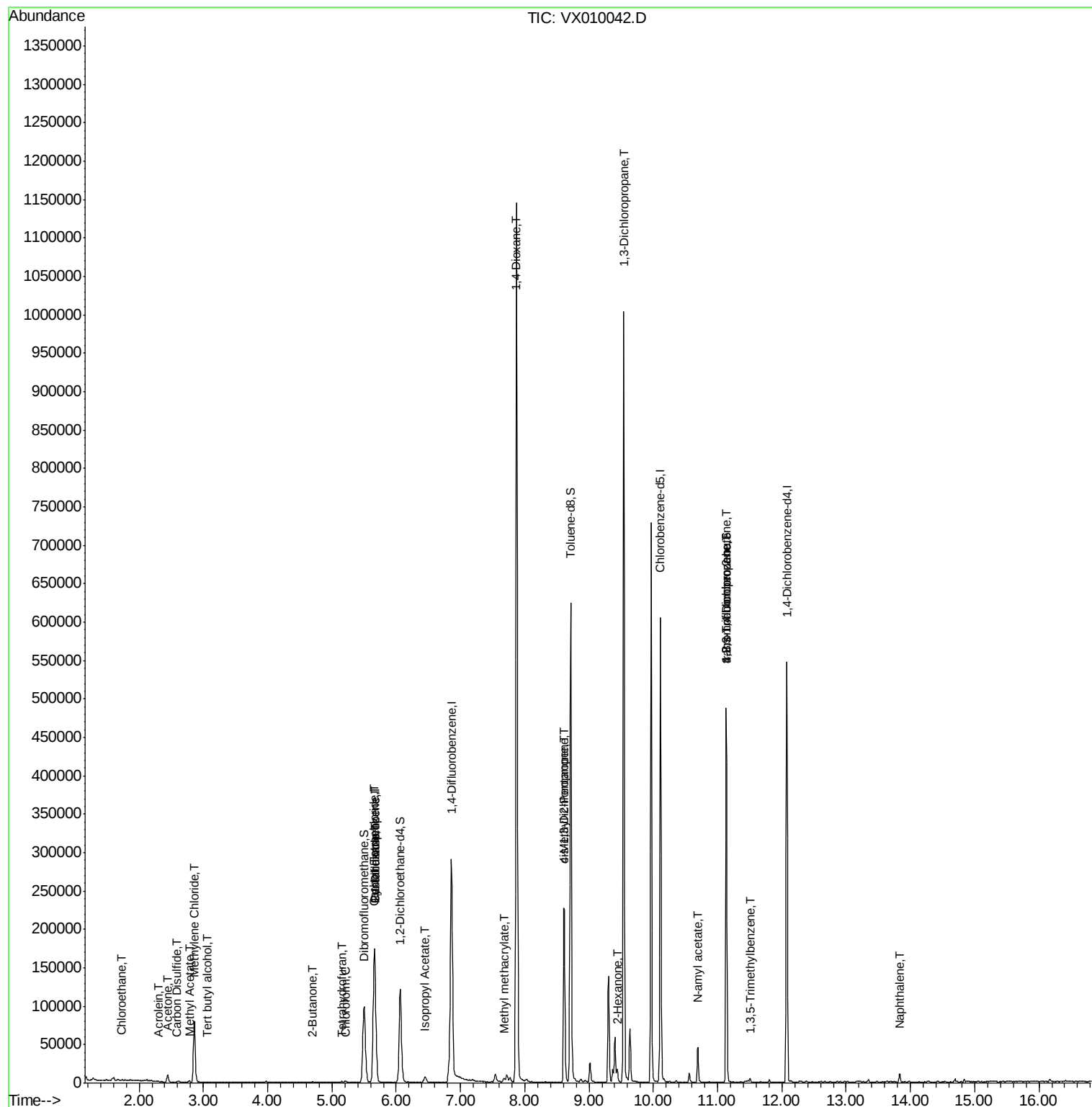
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.73	64	399	0.253	ug/l #	64
11) Tert butyl alcohol	3.05	59	162	0.269	ug/l #	73
13) Acrolein	2.30	56	98	21.307	ug/l	85
16) Acetone	2.44	43	10220	7.240	ug/l	99
17) Carbon Disulfide	2.57	76	391	0.458	ug/l #	76
18) Methyl Acetate	2.78	43	3195	0.973	ug/l	92
20) Methylene Chloride	2.86	84	36386	16.833	ug/l	99
25) 2-Butanone	4.70	43	1727	0.785	ug/l	92
29) Tetrahydrofuran	5.16	42	1359	0.964	ug/l #	79
30) Chloroform	5.21	83	1379	0.390	ug/l	90
31) Cyclohexane	5.67	56	3901	1.049	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13200	4.714	ug/l #	50
38) Carbon Tetrachloride	5.65	117	15451	6.385	ug/l #	16
43) Isopropyl Acetate	6.45	43	11422	1.814	ug/l	98
48) Methyl methacrylate	7.68	41	6502	2.086	ug/l #	20
49) 1,4-Dioxane	7.87	88	87	1.501	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	81206	19.827	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	33790	9.660	ug/l #	58
57) 1,3-Dichloropropane	9.54	76	7592	2.082	ug/l #	43
59) 2-Hexanone	9.44	43	10993	3.486	ug/l #	27
74) N-amyl acetate	10.69	43	12453	2.489	ug/l #	58
76) 1,2,3-Trichloropropane	11.13	75	62806	23.143	ug/l #	34
80) 1,3,5-Trimethylbenzene	11.51	105	2192	0.311	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.13	75	62806	57.259	ug/l #	10
95) Naphthalene	13.83	128	6589	0.791	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010042.D

Acq: 03 Jun 2019 17:34

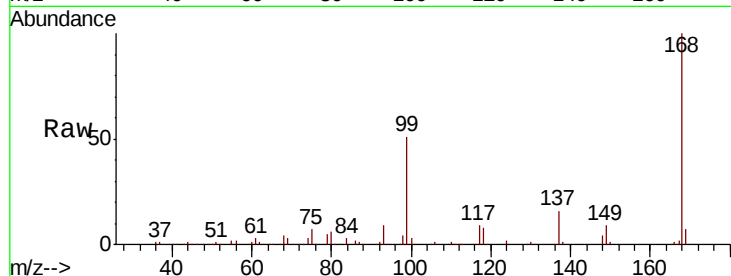
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 172946

Ion Ratio Lower Upper

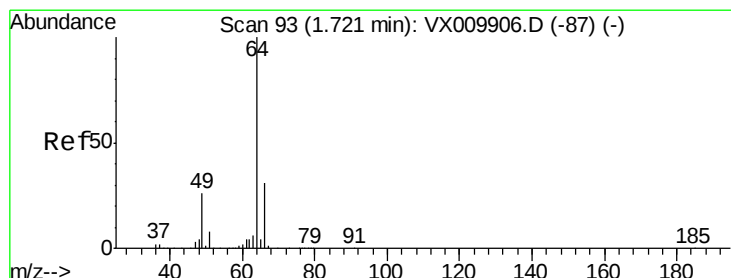
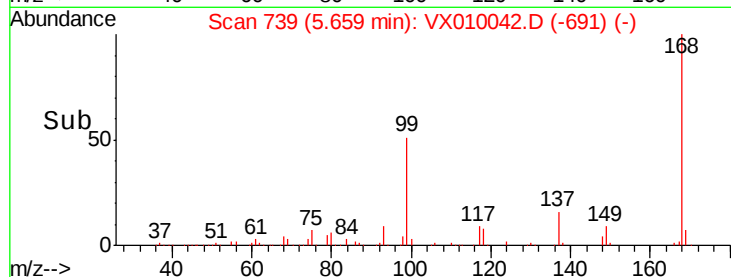
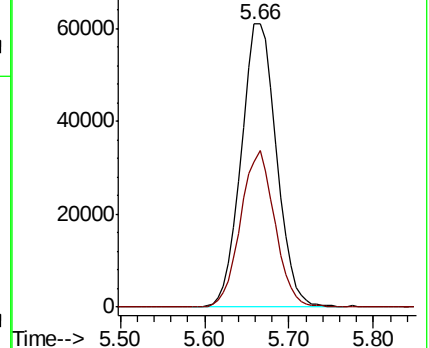
168 100

99 51.2 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 0.253 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.01 min

Lab File: VX010042.D

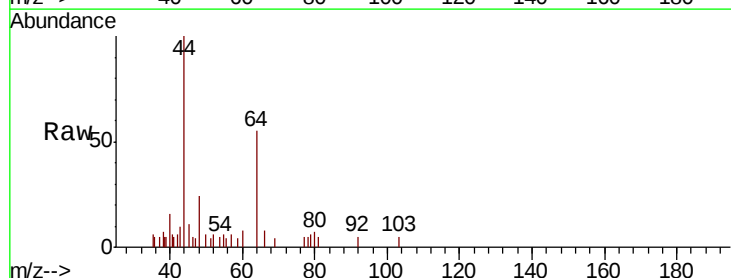
Acq: 03 Jun 2019 17:34

Tgt Ion: 64 Resp: 399

Ion Ratio Lower Upper

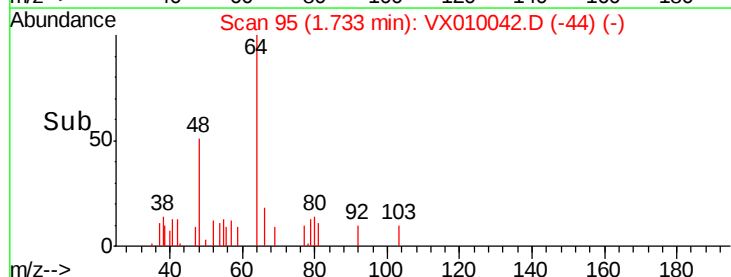
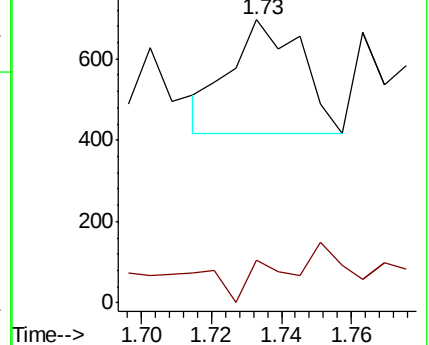
64 100

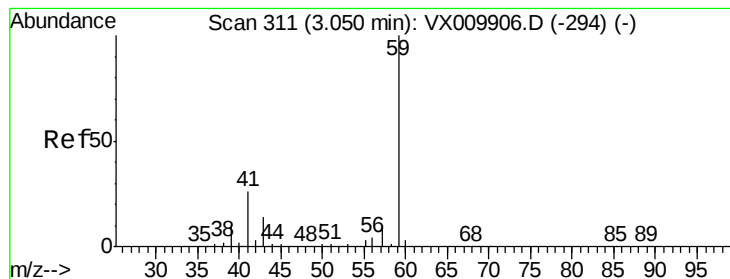
66 11.4 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



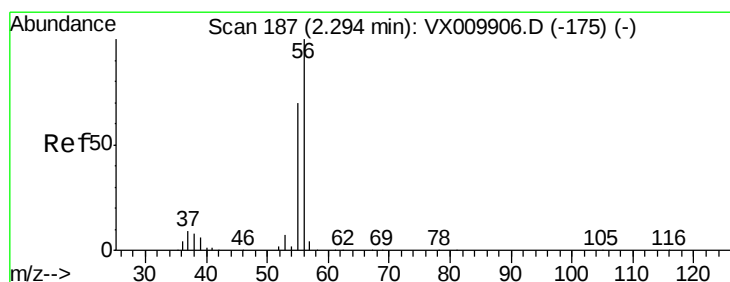
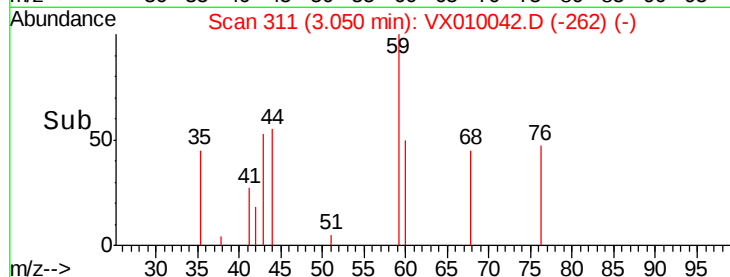
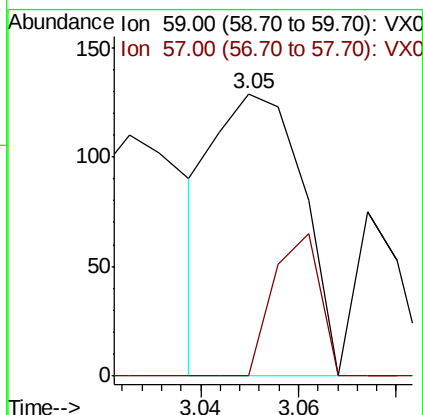
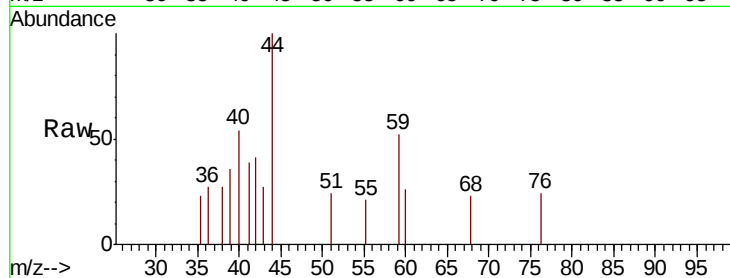


#11

Tert butyl alcohol
Concen: 0.269 ug/l
RT: 3.05 min Scan# 311
Delta R.T. -0.00 min
Lab File: VX010042.D
Acq: 03 Jun 2019 17:34

Instrument :
MSVOA_X
ClientSampled :

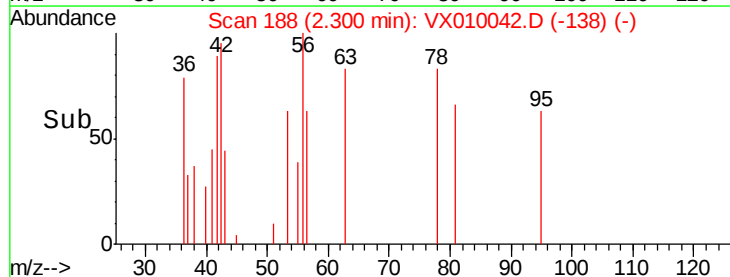
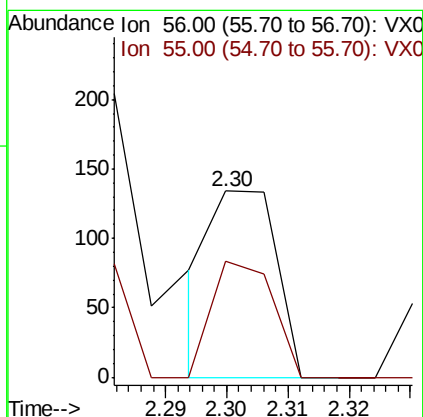
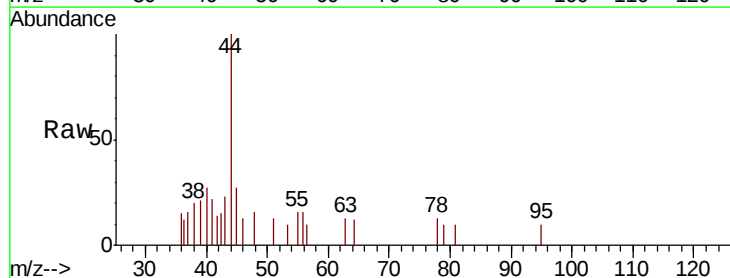
Tot Ion: 59 Resp: 162
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

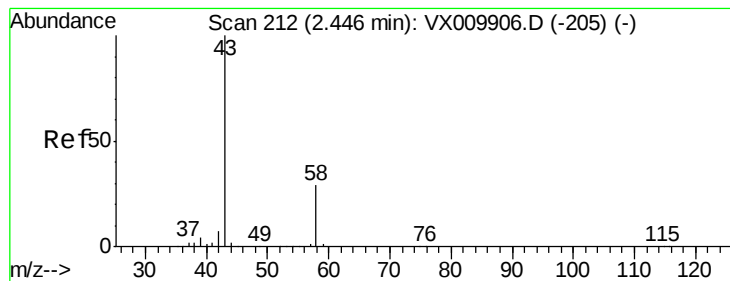


#13

Acrolein
Concen: 21.307 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX010042.D
Acq: 03 Jun 2019 17:34

Tgt Ion: 56 Resp: 98
Ion Ratio Lower Upper
56 100
55 59.2 57.0 85.4





#16

Acetone

Concen: 7.240 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010042.D

Acq: 03 Jun 2019 17:34

Instrument :

MSVOA_X

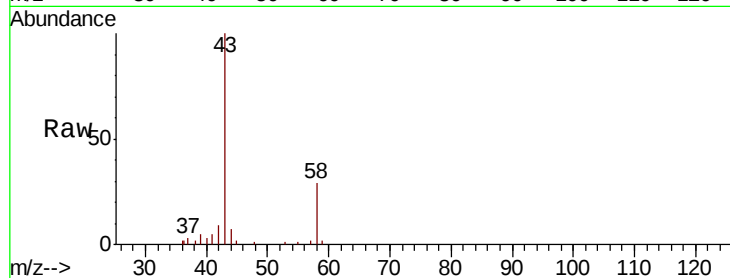
ClientSampleId :

Tot Ion: 43 Resp: 10220

Ion Ratio Lower Upper

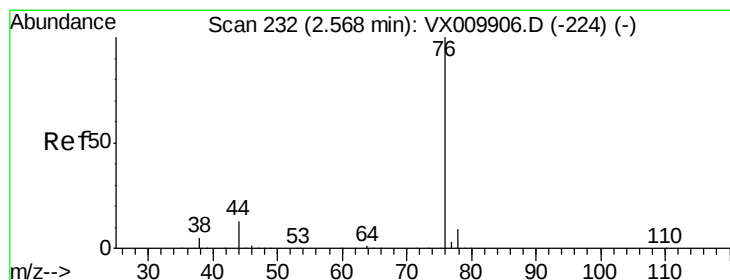
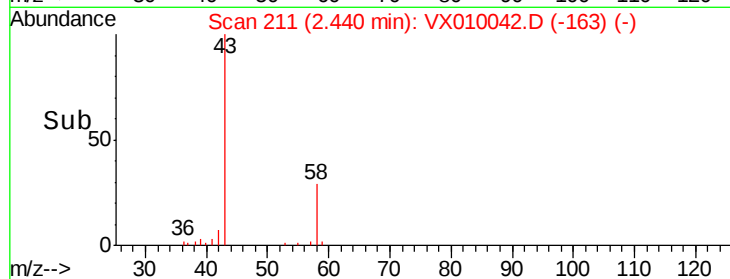
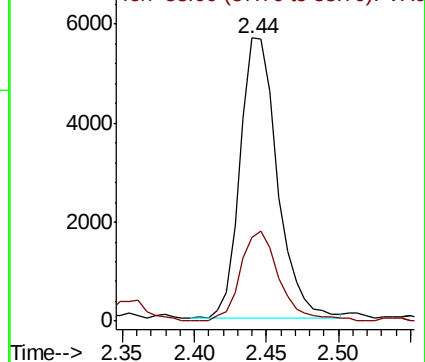
43 100

58 29.8 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.458 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010042.D

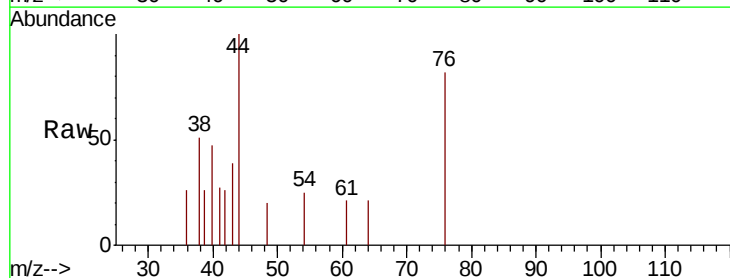
Acq: 03 Jun 2019 17:34

Tgt Ion: 76 Resp: 391

Ion Ratio Lower Upper

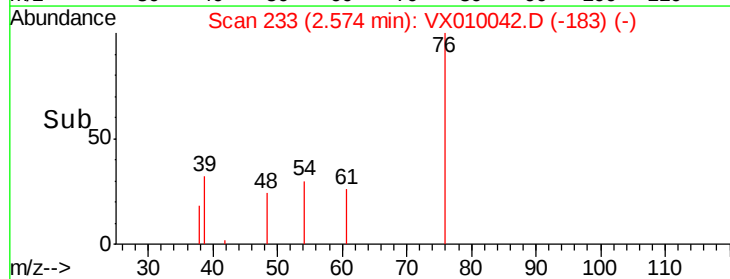
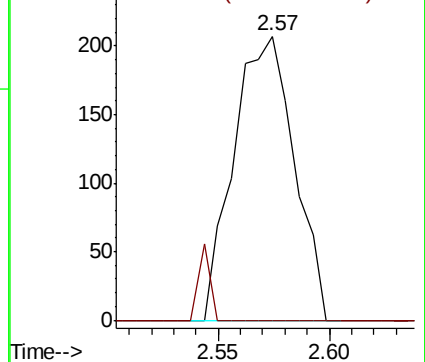
76 100

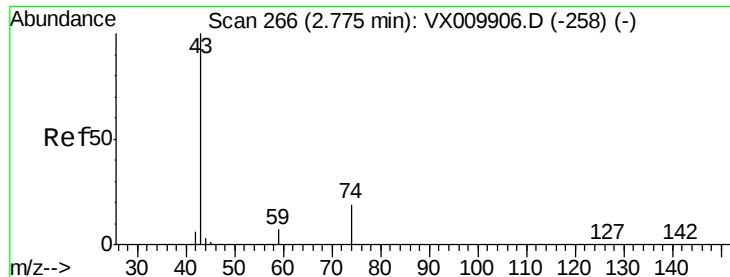
78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

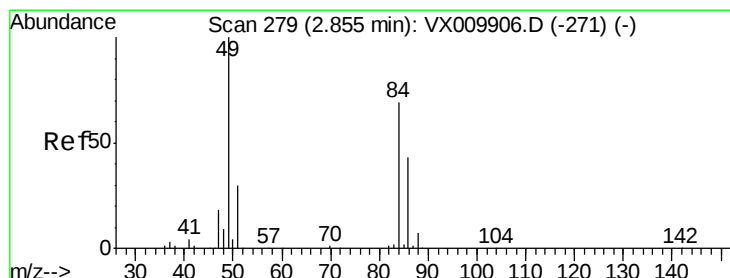
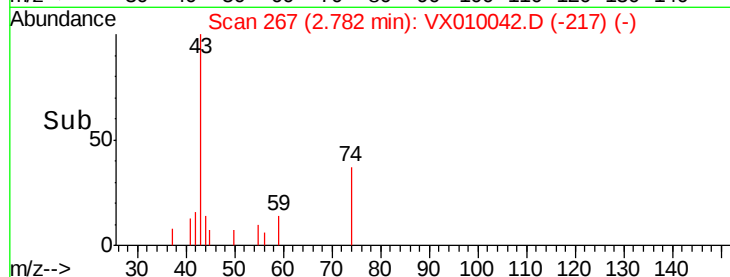
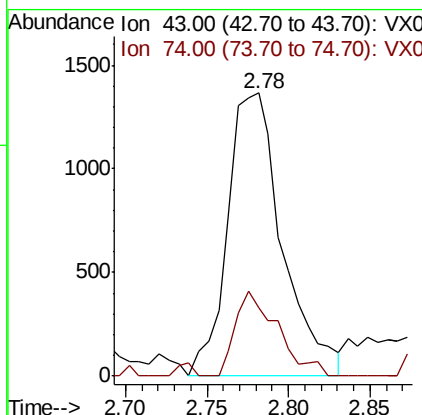
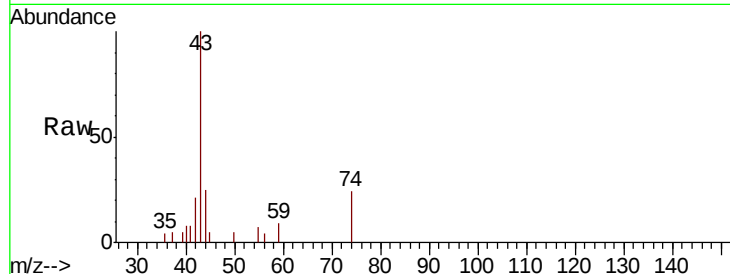




#18
Methvl Acetate
Concen: 0.973 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX010042.D
Acq: 03 Jun 2019 17:34

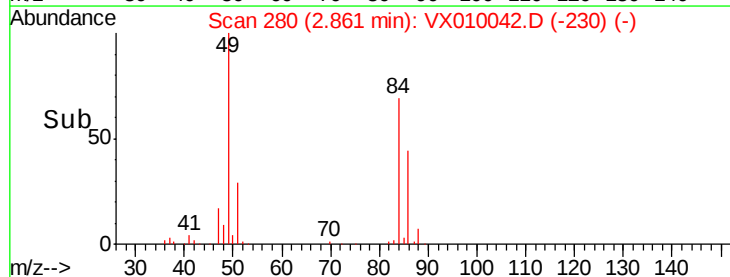
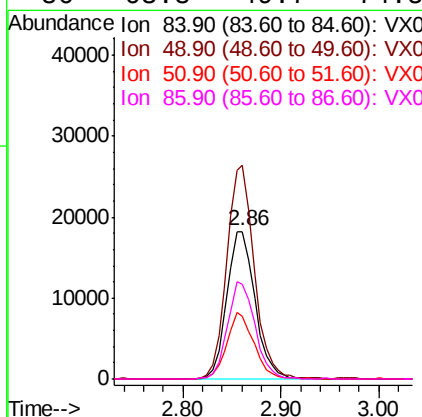
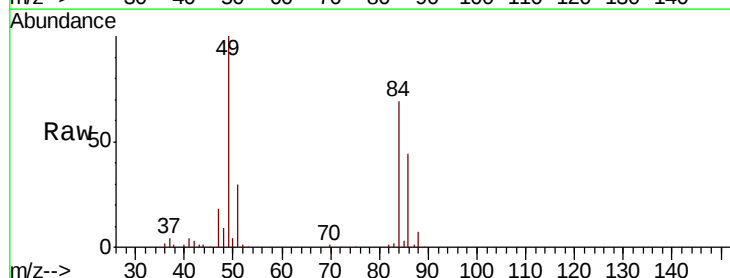
Instrument :
MSVOA_X
ClientSampleId :

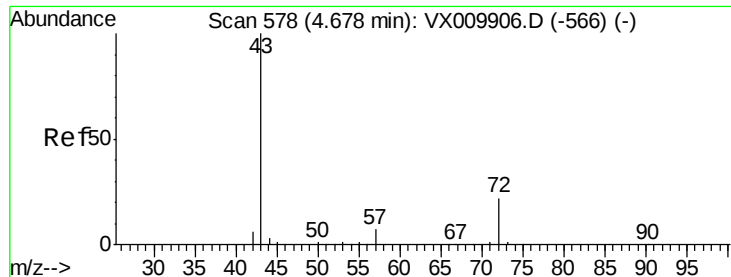
Tot Ion: 43 Resp: 3195
Ion Ratio Lower Upper
43 100
74 23.3 15.8 23.6



#20
Methylene Chloride
Concen: 16.833 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010042.D
Acq: 03 Jun 2019 17:34

Tgt Ion: 84 Resp: 36386
Ion Ratio Lower Upper
84 100
49 144.8 115.8 173.6
51 42.9 34.4 51.6
86 63.8 49.7 74.5





#25

2-Butanone

Concen: 0.785 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX010042.D

Acq: 03 Jun 2019 17:34

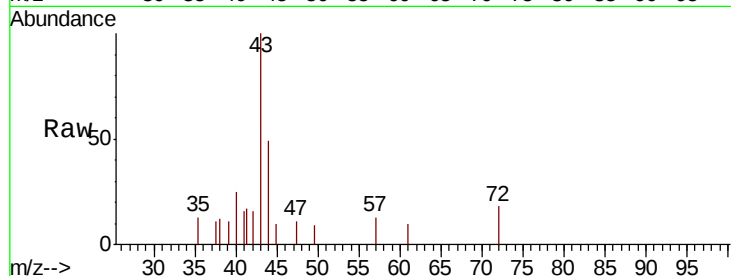
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1727

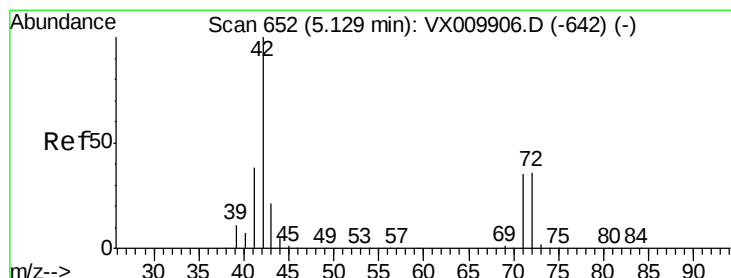
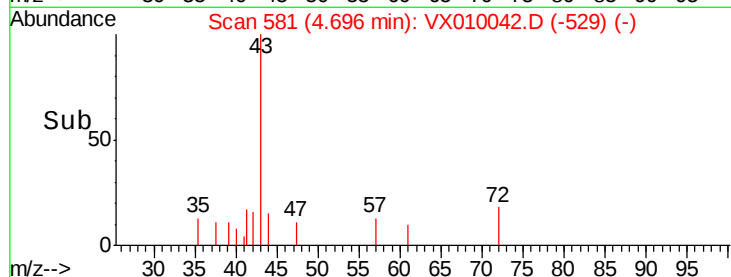
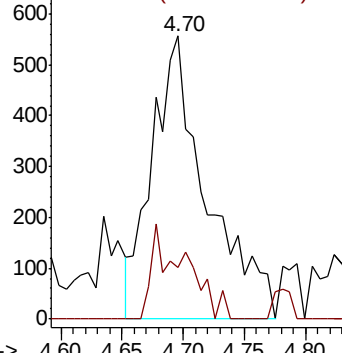
Ion Ratio Lower Upper

43 100

72 18.3 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.964 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.03 min

Lab File: VX010042.D

Acq: 03 Jun 2019 17:34

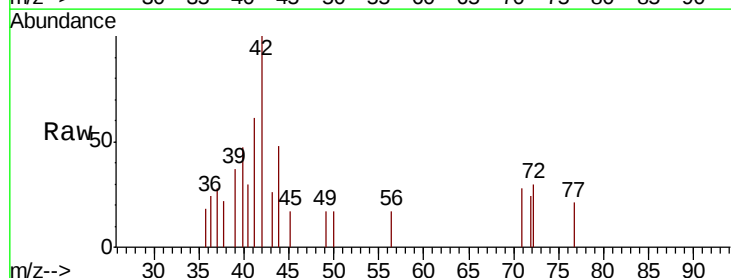
Tgt Ion: 42 Resp: 1359

Ion Ratio Lower Upper

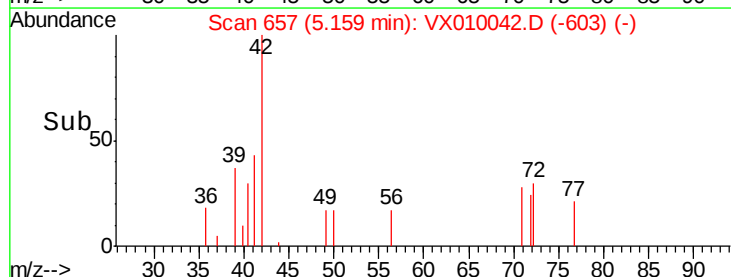
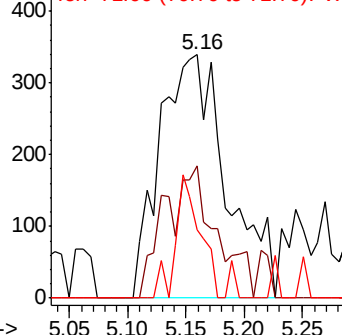
42 100

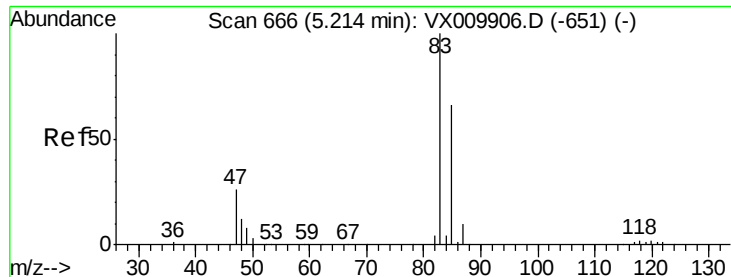
72 28.3 29.2 43.8#

71 18.5 27.6 41.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

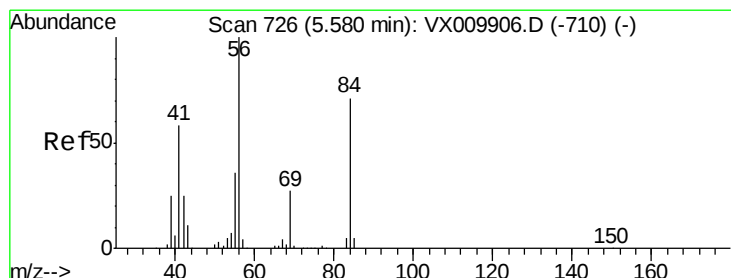
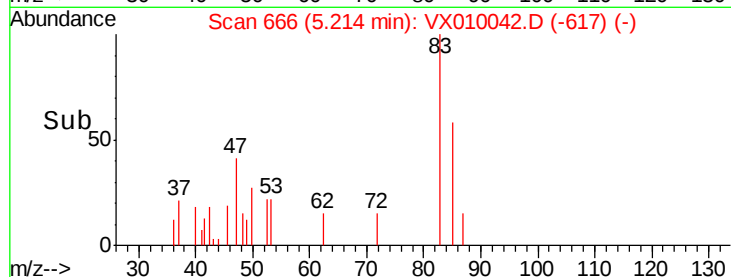
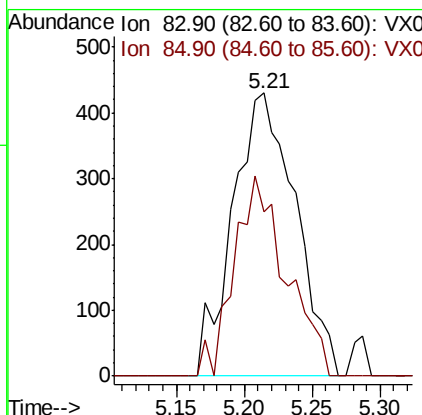
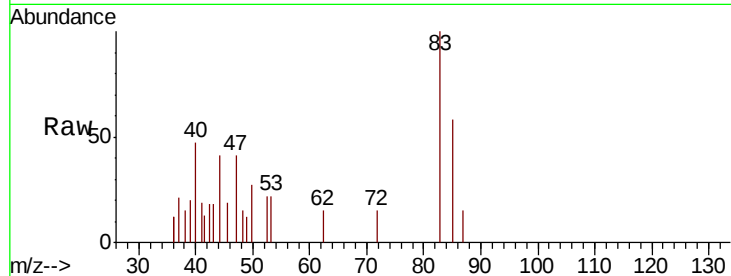




#30
Chloroform
Concen: 0.390 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX010042.D
Acq: 03 Jun 2019 17:34

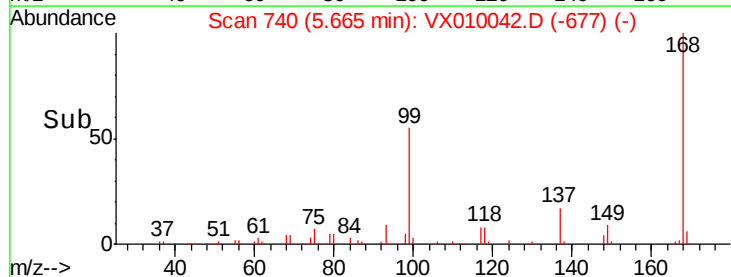
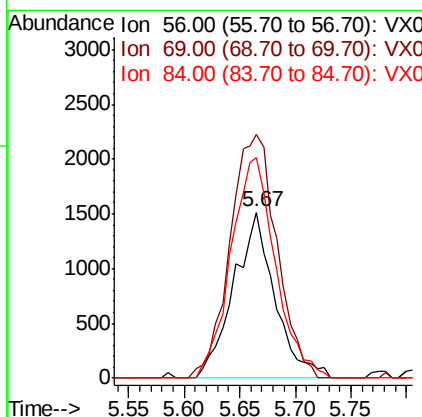
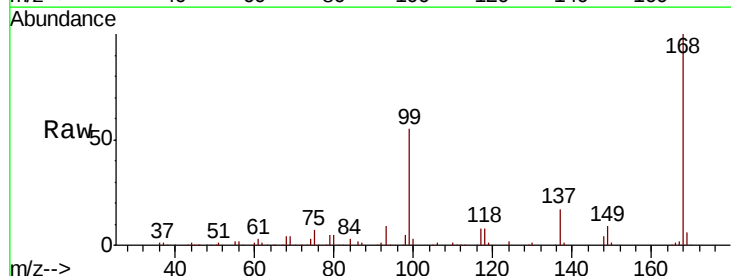
Instrument :
MSVOA_X
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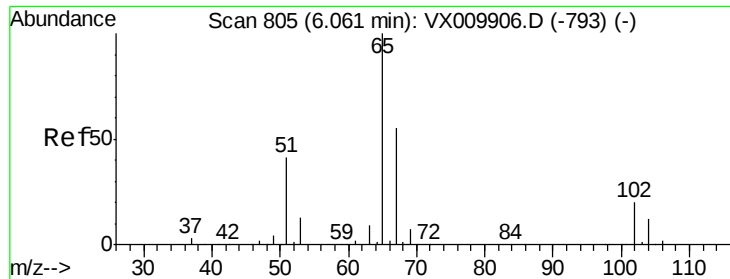
Tot Ion: 83 Resp: 1379
Ion Ratio Lower Upper
83 100
85 58.1 52.6 78.8



#31
Cyclohexane
Concen: 1.049 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX010042.D
Acq: 03 Jun 2019 17:34

Tgt Ion: 56 Resp: 3901
Ion Ratio Lower Upper
56 100
69 146.7 21.6 32.4#
84 132.9 56.8 85.2#

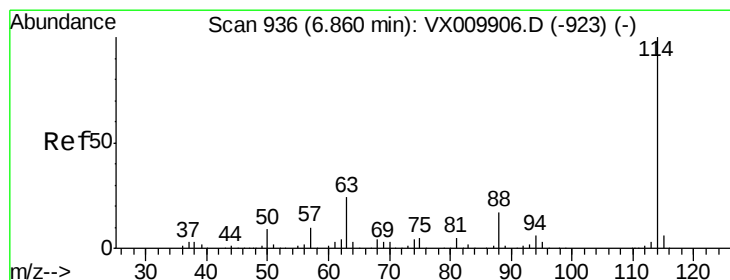
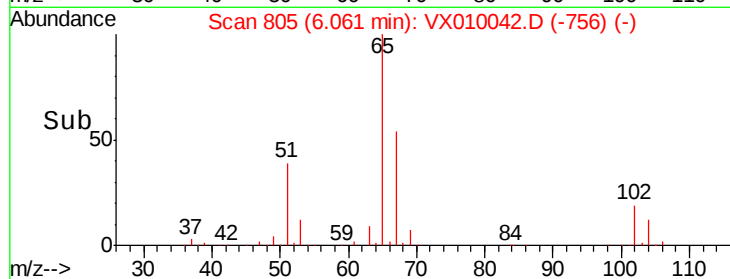
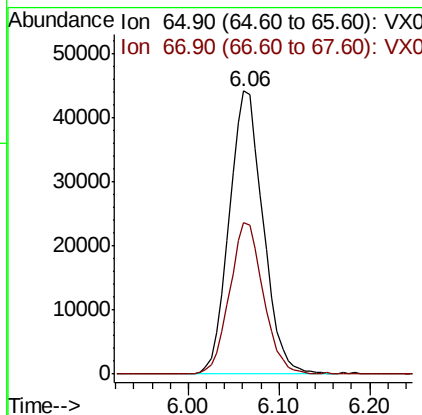
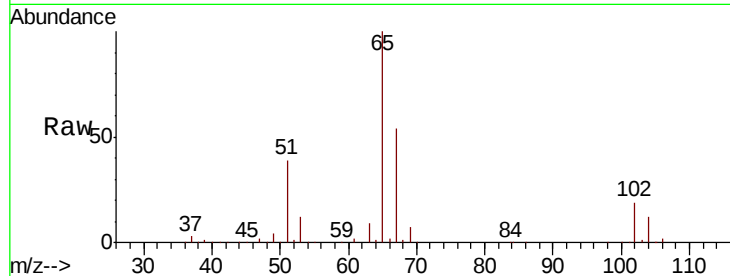




#33
 1,2-Dichloroethane-d4
 Concen: 46.902 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX010042.D
 Acq: 03 Jun 2019 17:34

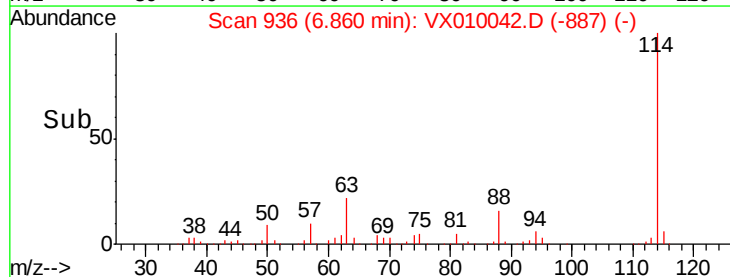
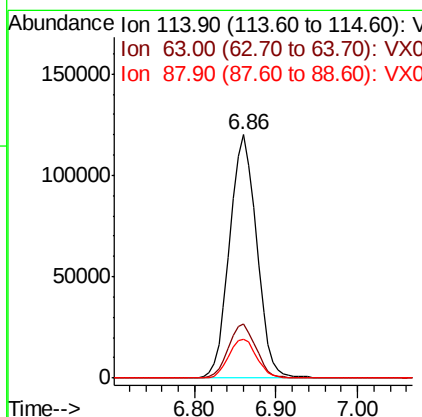
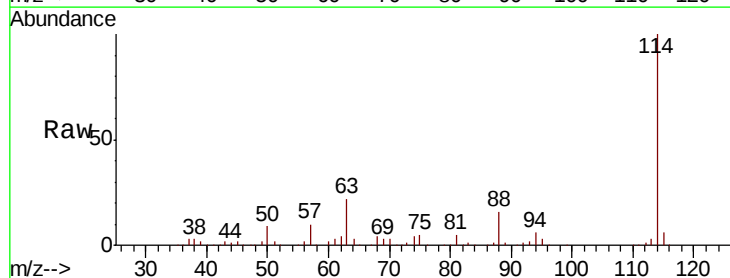
Instrument :
 MSVOA_X
 ClientSampleId :

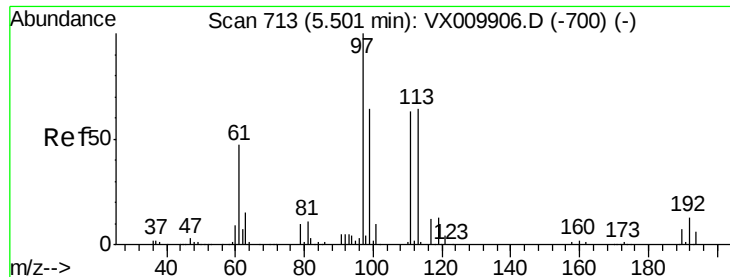
Tot Ion: 65 Resp: 114581
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX010042.D
 Acq: 03 Jun 2019 17:34

Tgt Ion: 114 Resp: 276009
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 47.4
 88 16.0 0.0 33.0

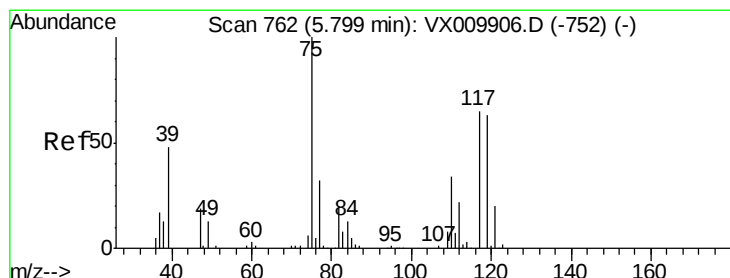
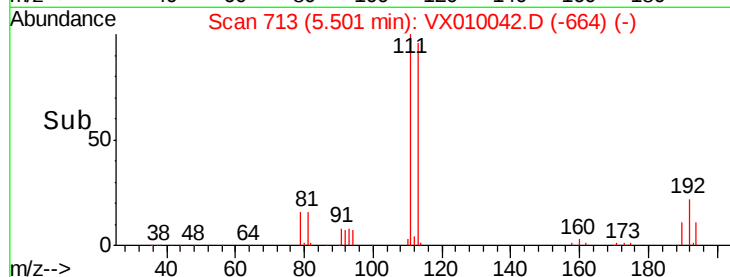
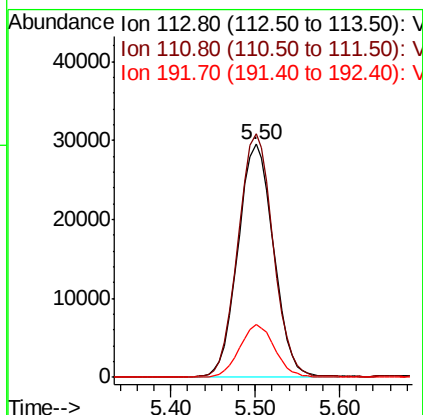
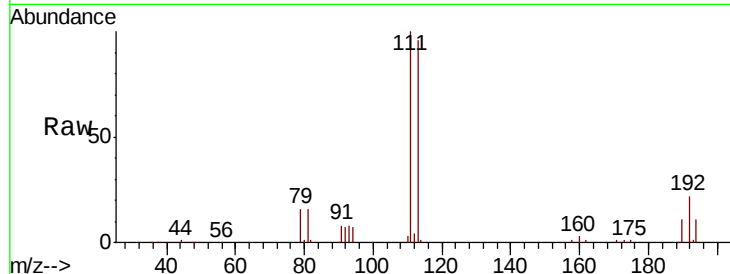




#35
Dibromofluoromethane
Concen: 48.853 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX010042.D
Acq: 03 Jun 2019 17:34

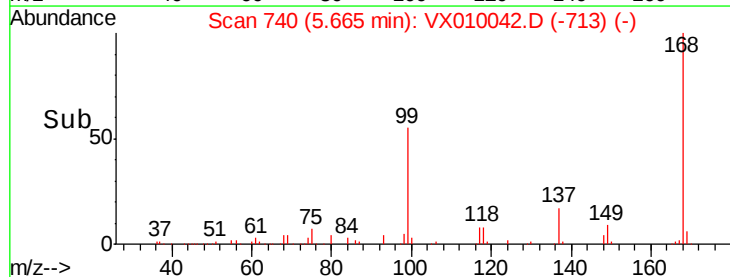
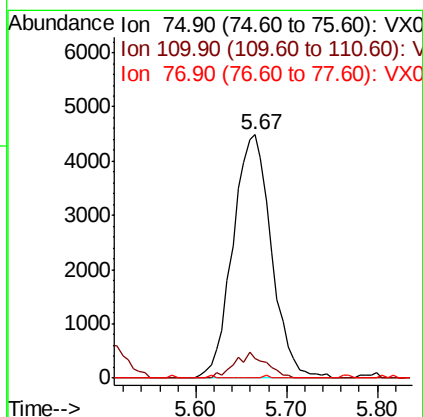
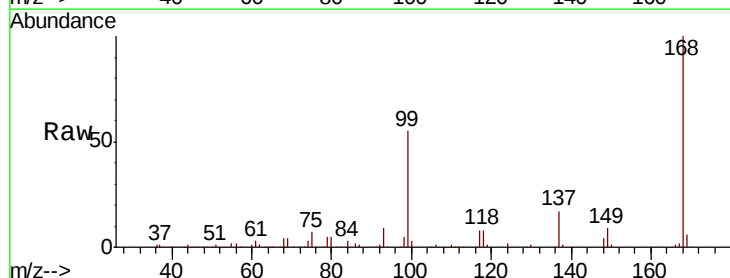
Instrument :
MSVOA_X
ClientSampleId :

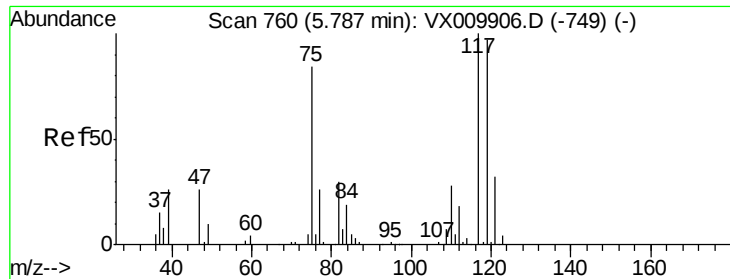
Tot Ion:113 Resp: 84774
Ion Ratio Lower Upper
113 100
111 103.2 82.2 123.2
192 22.3 17.1 25.7



#36
1,1-Dichloropropene
Concen: 4.714 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.13 min
Lab File: VX010042.D
Acq: 03 Jun 2019 17:34

Tgt Ion: 75 Resp: 13200
Ion Ratio Lower Upper
75 100
110 8.7 16.7 50.1#
77 0.2 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.385 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX010042.D

Acq: 03 Jun 2019 17:34

Instrument :

MSVOA_X

ClientSampleId :

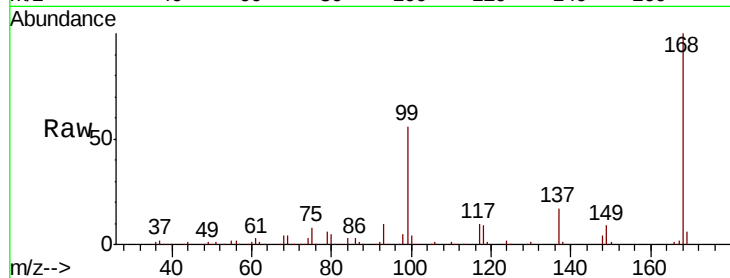
Tot Ion:117 Resp: 15451

Ion Ratio Lower Upper

117 100

119 5.0 77.3 115.9#

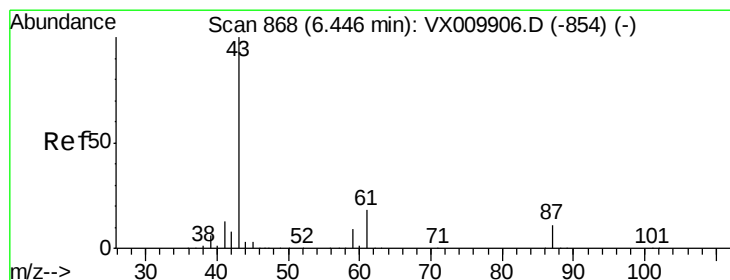
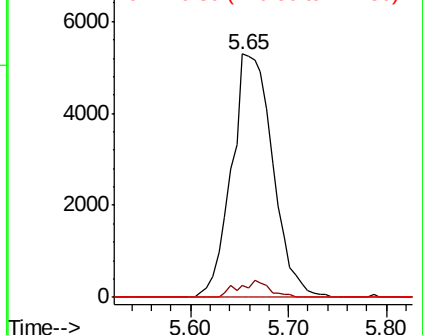
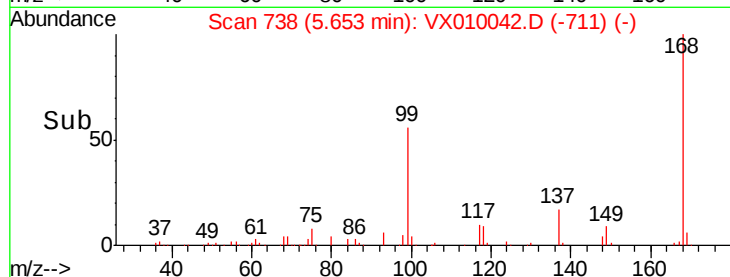
121 0.0 25.4 38.0#



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



#43

Isopropyl Acetate

Concen: 1.814 ug/l

RT: 6.45 min Scan# 868

Delta R.T. -0.00 min

Lab File: VX010042.D

Acq: 03 Jun 2019 17:34

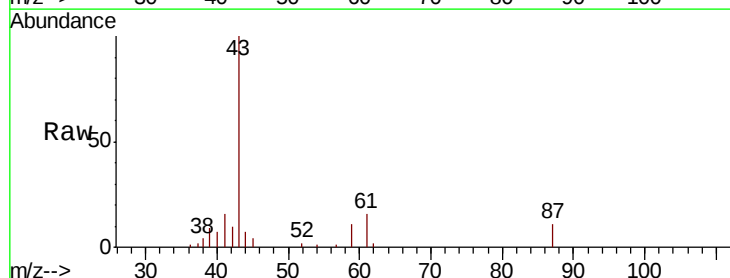
Tgt Ion: 43 Resp: 11422

Ion Ratio Lower Upper

43 100

61 19.5 14.6 21.8

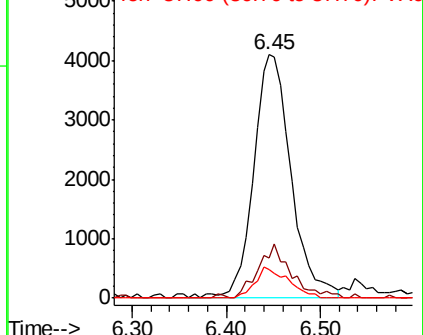
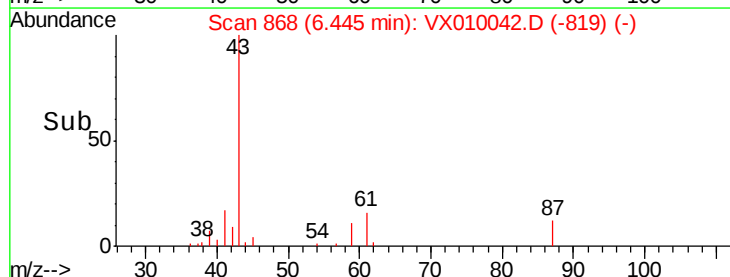
87 11.2 8.7 13.1

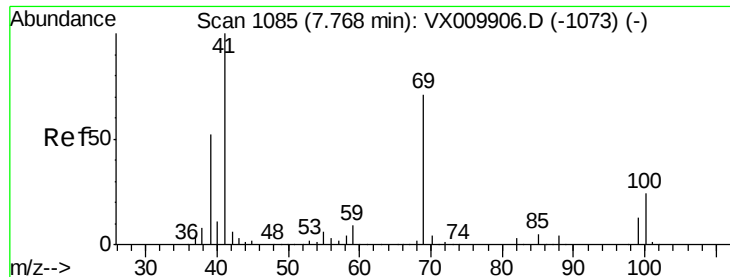


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 2.086 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX010042.D

Acq: 03 Jun 2019 17:34

Instrument :
MSVOA_X
ClientSampleId :

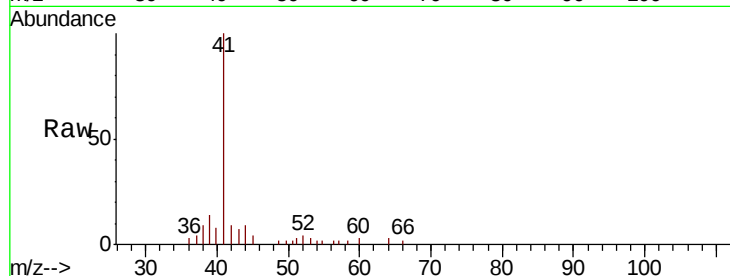
Tot Ion: 41 Resp: 6502

Ion Ratio Lower Upper

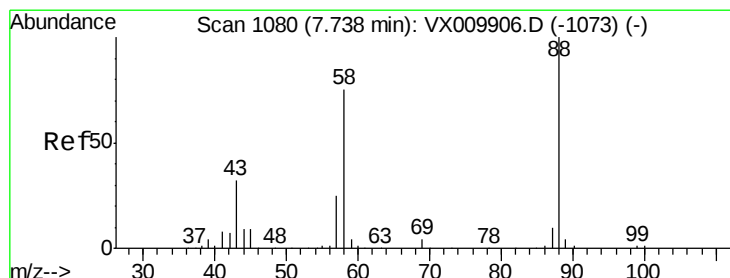
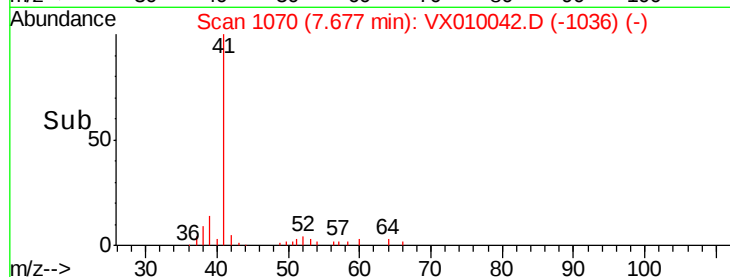
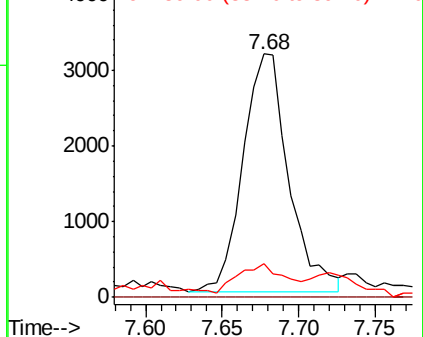
41 100

69 0.0 56.4 84.6#

39 0.0 40.6 60.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 1.501 ug/l

RT: 7.87 min Scan# 1102

Delta R.T. 0.13 min

Lab File: VX010042.D

Acq: 03 Jun 2019 17:34

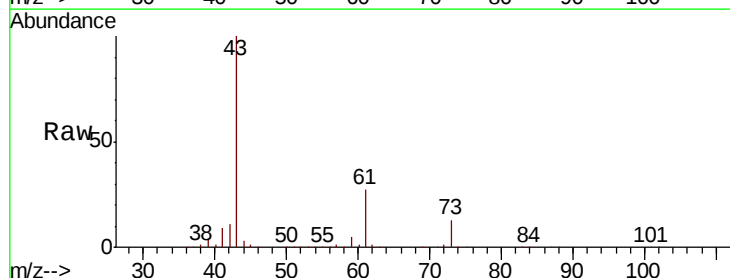
Tgt Ion: 88 Resp: 87

Ion Ratio Lower Upper

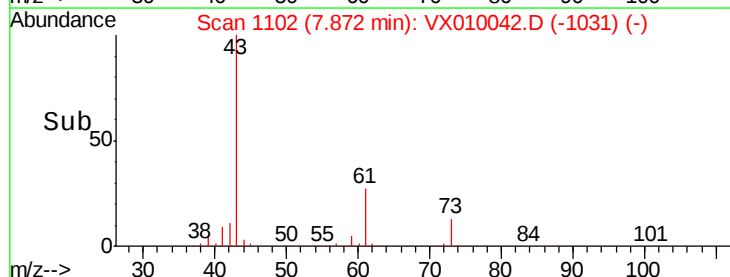
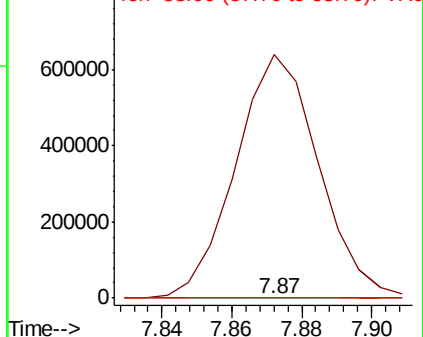
88 100

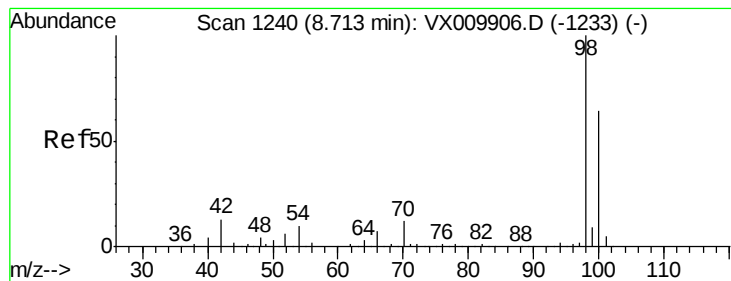
43 1229521.8 30.2 45.4#

58 4902.3 64.0 96.0#



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: 50.451 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010042.D

Acq: 03 Jun 2019 17:34

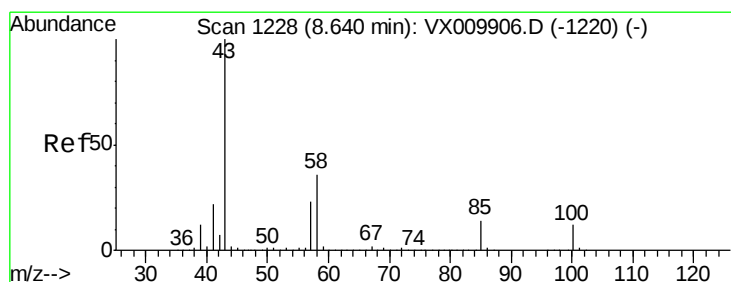
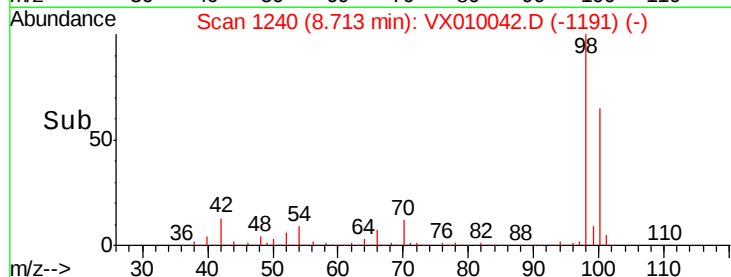
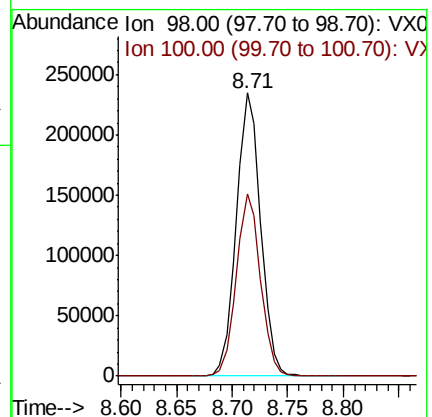
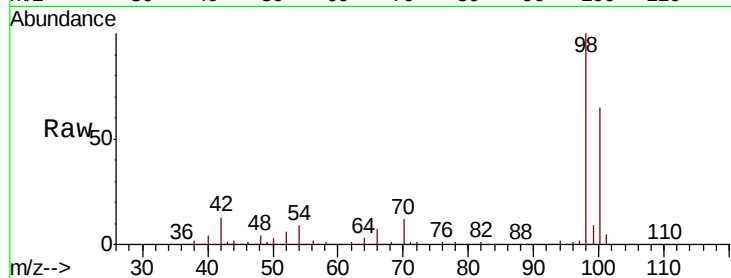
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 98 Resp: 355505

Ion Ratio Lower Upper

98 100

100 64.0 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 19.827 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX010042.D

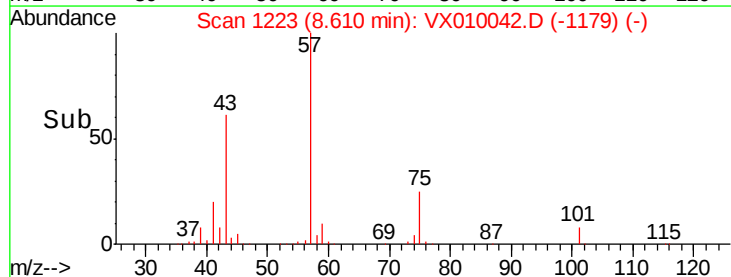
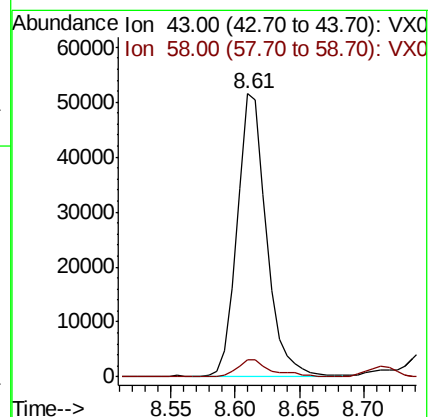
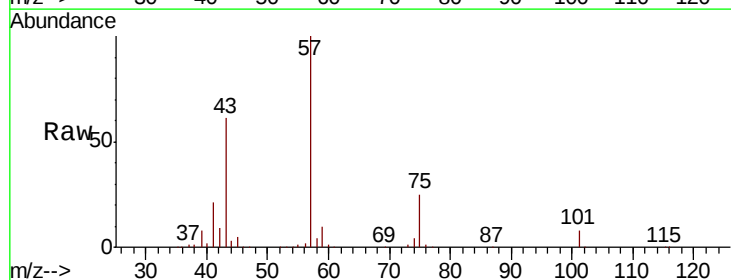
Acq: 03 Jun 2019 17:34

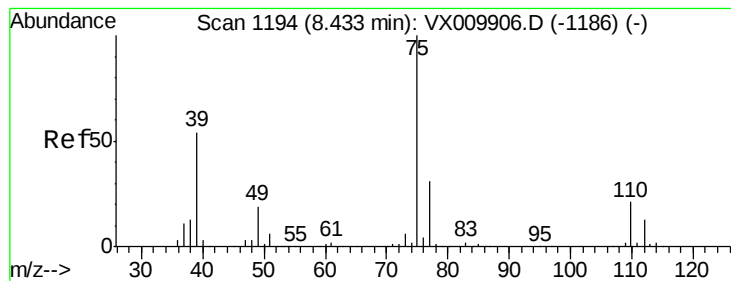
Tgt Ion: 43 Resp: 81206

Ion Ratio Lower Upper

43 100

58 7.2 28.8 43.2#



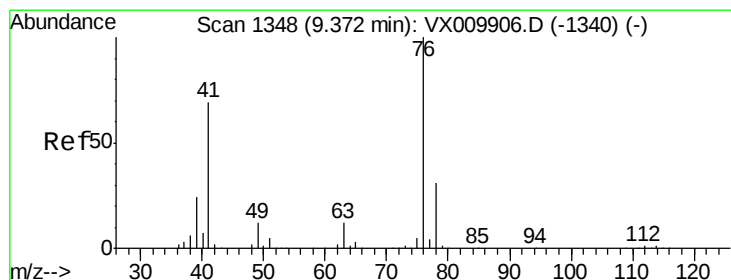
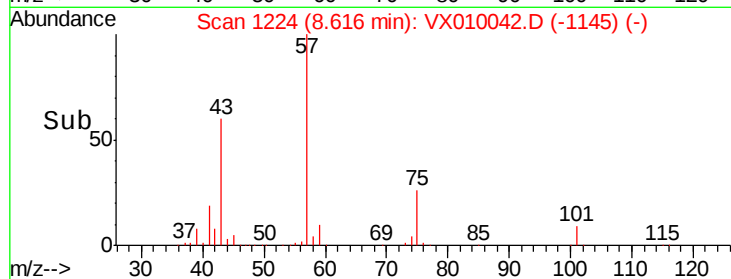
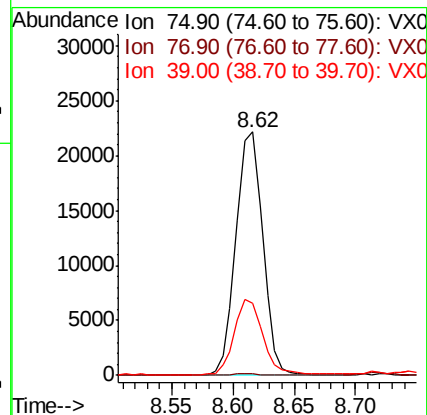
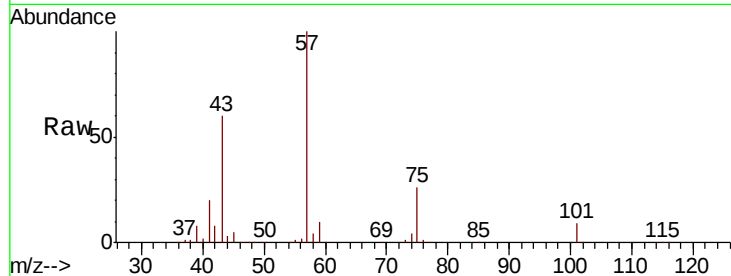


#54

cis-1,3-Dichloropropene
 Concen: 9.660 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX010042.D
 Acq: 03 Jun 2019 17:34

Instrument :
 MSVOA_X
 ClientSampled :

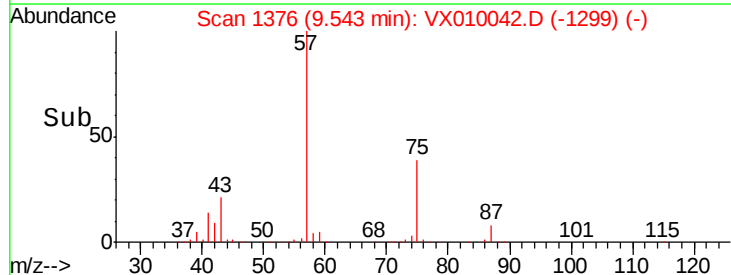
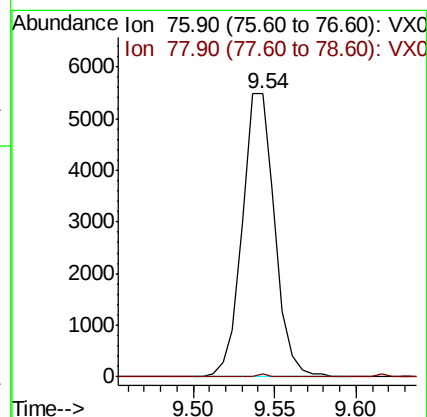
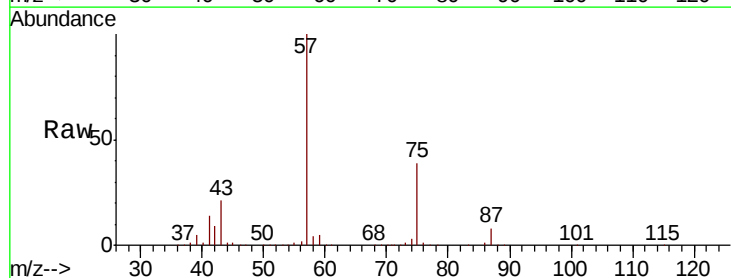
Tot Ion: 75 Resp: 33790
 Ion Ratio Lower Upper
 75 100
 77 0.7 24.8 37.2#
 39 29.3 43.4 65.0#

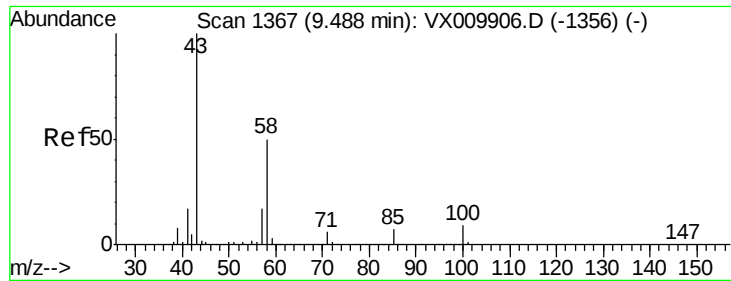


#57

1,3-Dichloropropane
 Concen: 2.082 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX010042.D
 Acq: 03 Jun 2019 17:34

Tgt Ion: 76 Resp: 7592
 Ion Ratio Lower Upper
 76 100
 78 0.3 25.4 38.0#

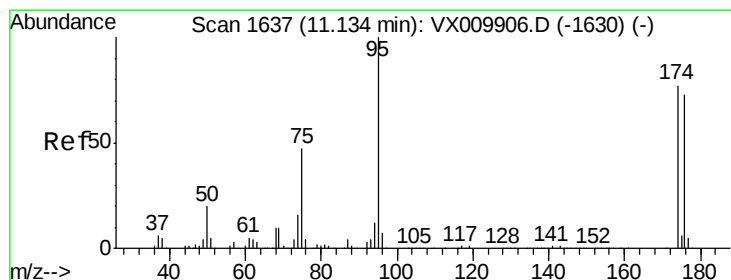
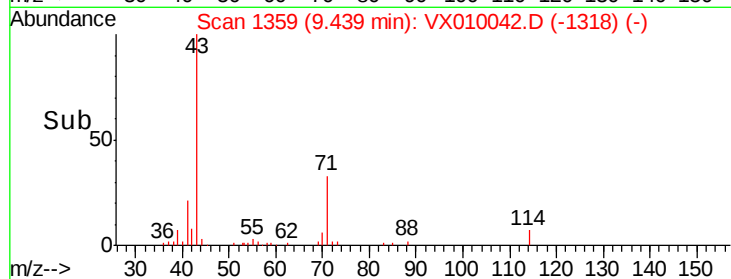
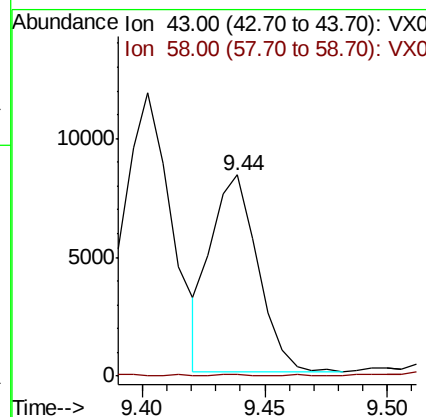
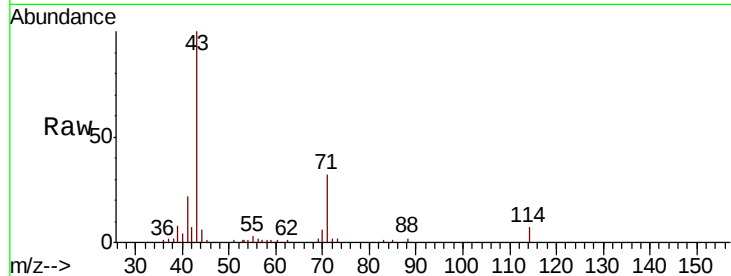




#59
2-Hexanone
Concen: 3.486 ug/l
RT: 9.44 min Scan# 1359
Delta R.T. -0.05 min
Lab File: VX010042.D
Acq: 03 Jun 2019 17:34

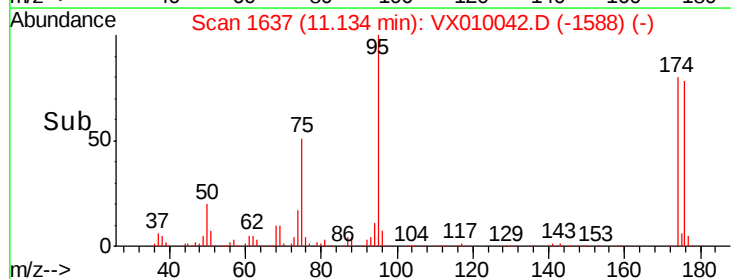
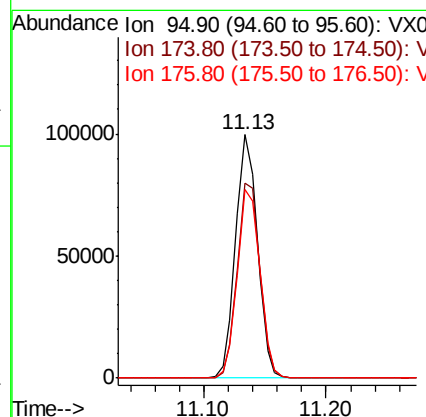
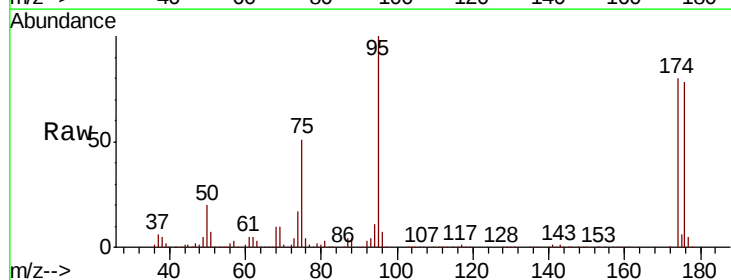
Instrument :
MSVOA_X
ClientSampled :

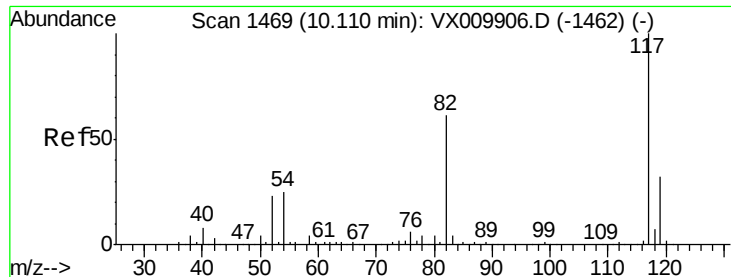
Tot Ion: 43 Resp: 10993
Ion Ratio Lower Upper
43 100
58 0.0 25.1 75.3#



#62
4-Bromofluorobenzene
Concen: 48.619 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX010042.D
Acq: 03 Jun 2019 17:34

Tgt Ion: 95 Resp: 123055
Ion Ratio Lower Upper
95 100
174 83.0 0.0 160.4
176 80.4 0.0 154.6

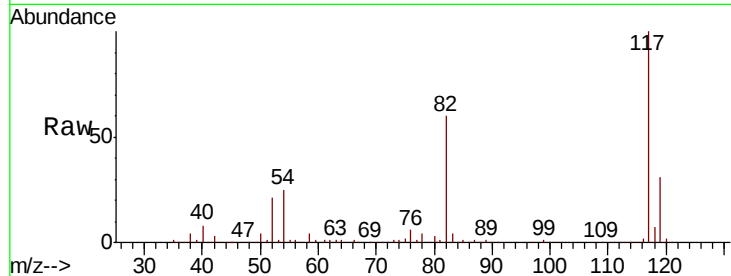




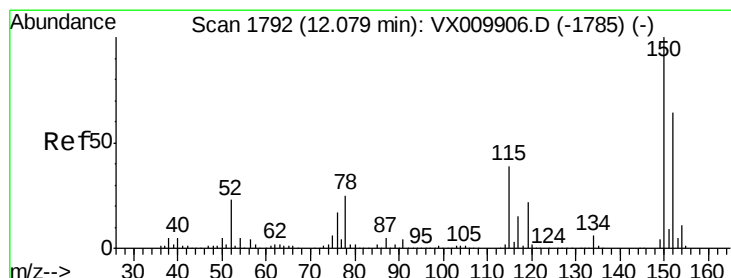
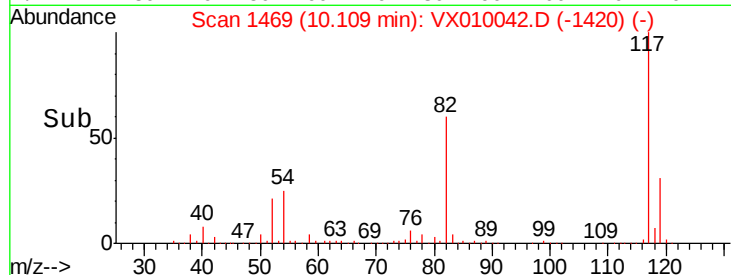
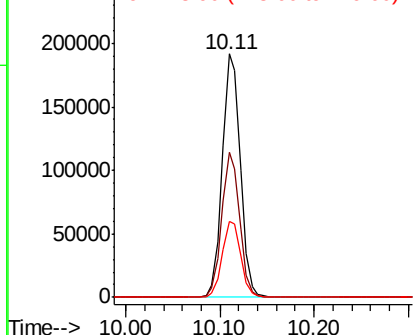
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010042.D
Acq: 03 Jun 2019 17:34

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 254213
Ion Ratio Lower Upper
117 100
82 59.5 49.2 73.8
119 31.2 25.2 37.8

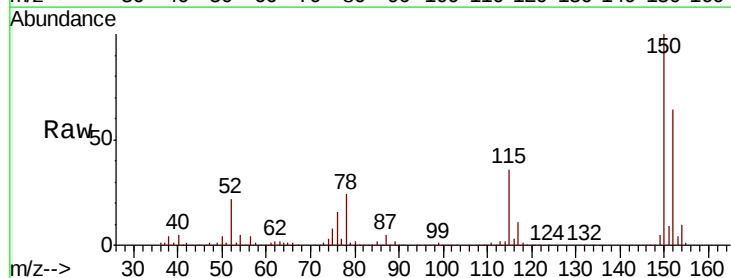


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

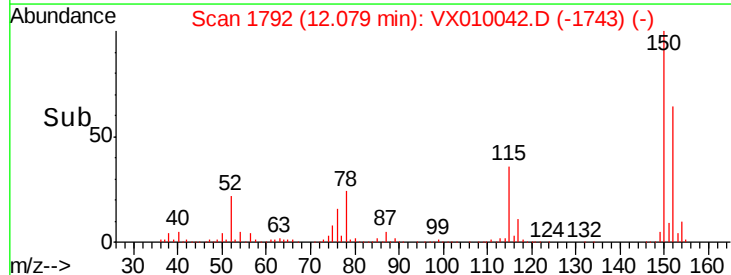
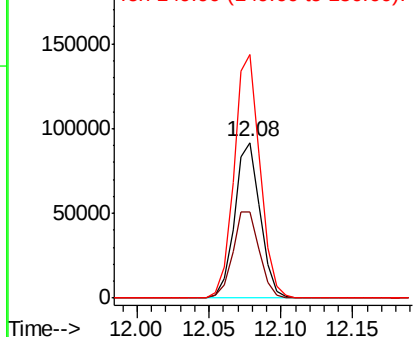


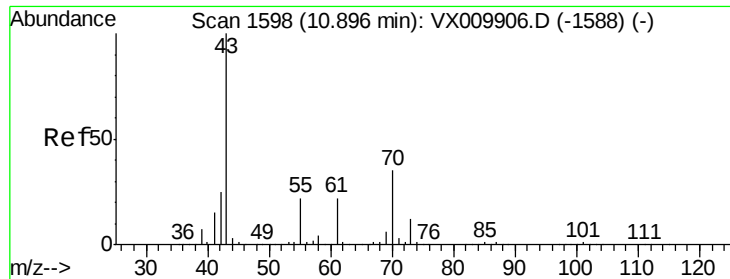
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010042.D
Acq: 03 Jun 2019 17:34

Tgt Ion:152 Resp: 113488
Ion Ratio Lower Upper
152 100
115 58.3 41.4 124.2
150 158.6 0.0 345.2



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





#74

N-amvl acetate

Concen: 2.489 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX010042.D

Acq: 03 Jun 2019 17:34

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 12453

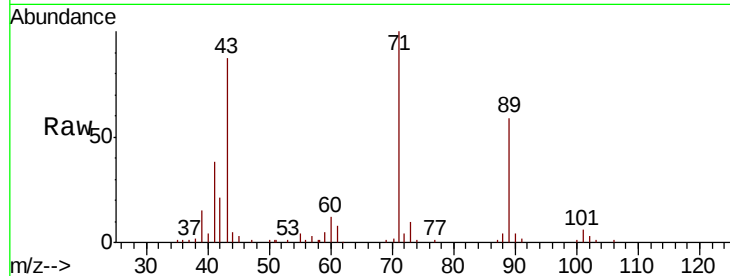
Ion Ratio Lower Upper

43 100

70 2.1 28.6 43.0#

55 5.2 17.8 26.8#

61 10.5 17.7 26.5#

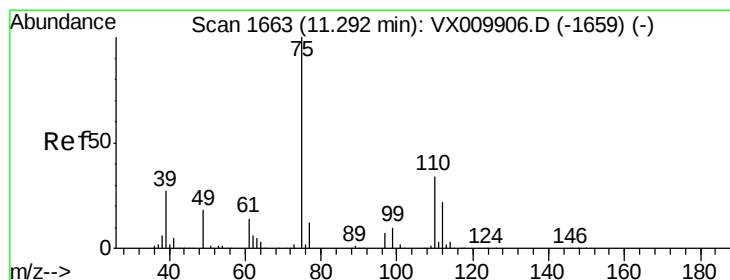
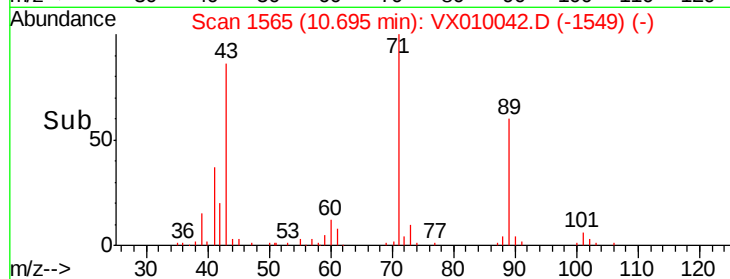
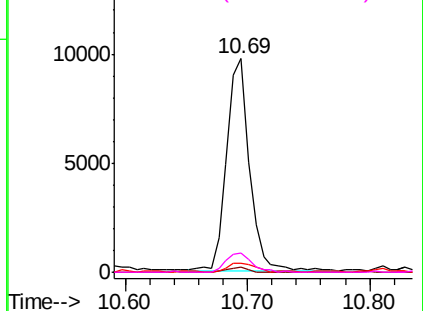


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.143 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010042.D

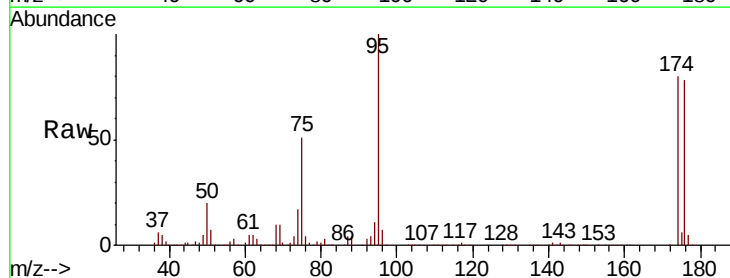
Acq: 03 Jun 2019 17:34

Tgt Ion: 75 Resp: 62806

Ion Ratio Lower Upper

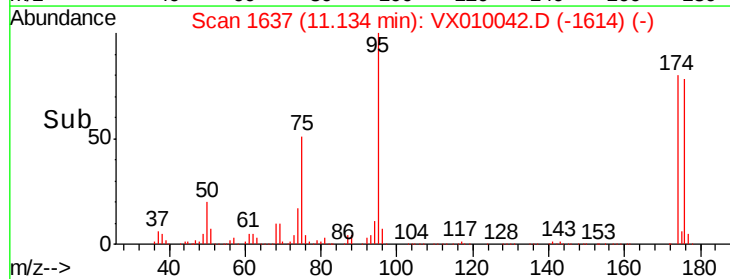
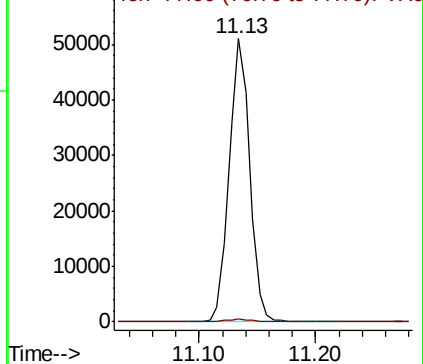
75 100

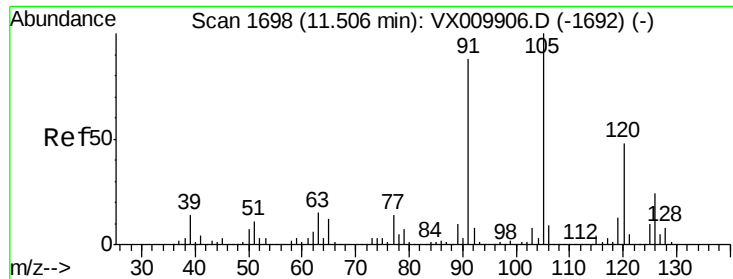
77 1.3 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

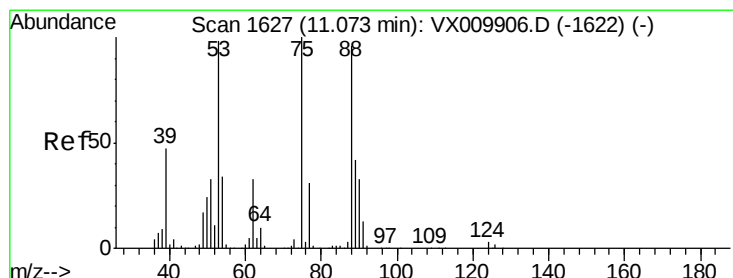
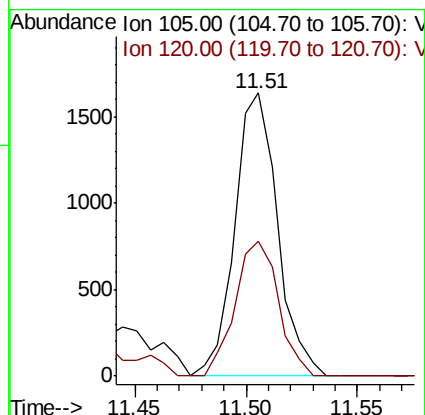
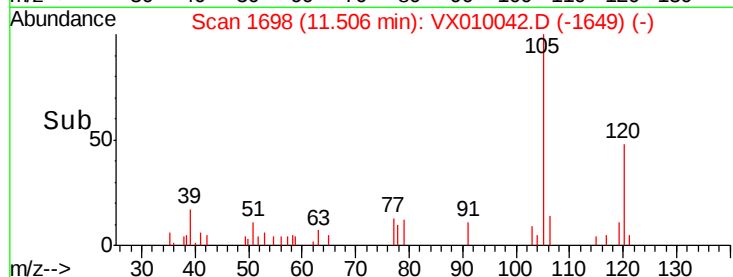
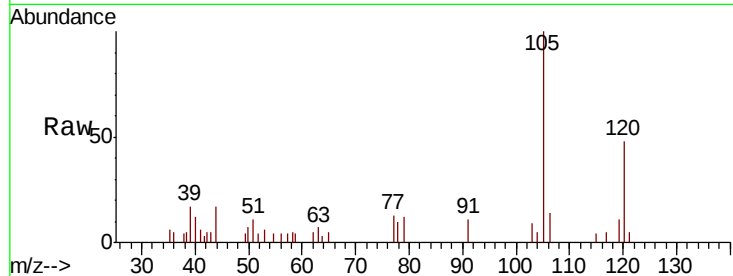




#80
 1,3,5-Trimethylbenzene
 Concen: 0.311 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX010042.D
 Acq: 03 Jun 2019 17:34

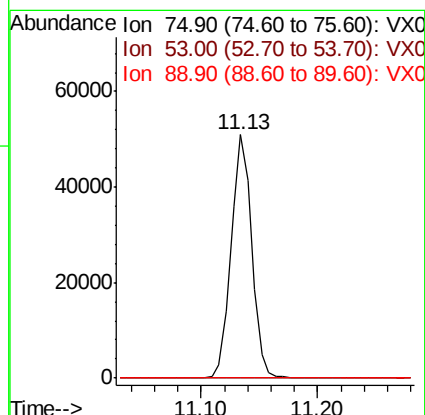
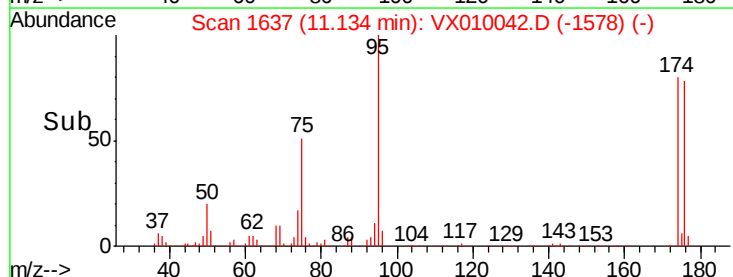
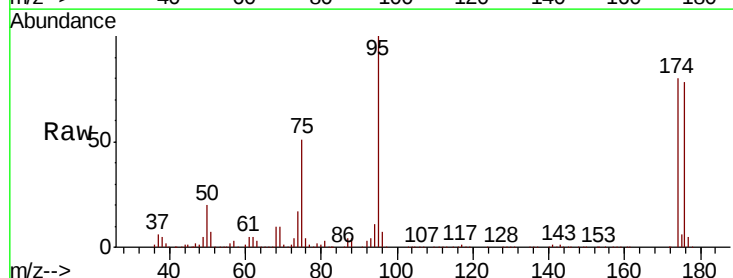
Instrument :
 MSVOA_X
 ClientSampled :

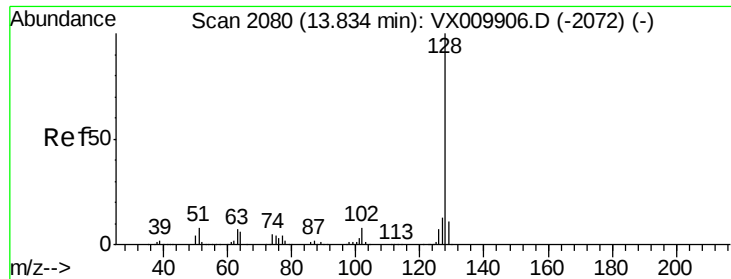
Tot Ion:105 Resp: 2192
 Ion Ratio Lower Upper
 105 100
 120 48.2 24.1 72.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.259 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010042.D
 Acq: 03 Jun 2019 17:34

Tgt Ion: 75 Resp: 62806
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.8 119.6#
 89 0.0 34.2 51.4#





#95

Naphthalene

Concen: 0.791 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX010042.D

Acq: 03 Jun 2019 17:34

Instrument :

MSVOA_X

ClientSampleId :

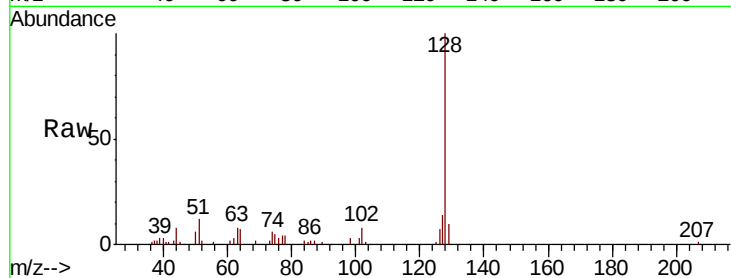
Tot Ion:128 Resp: 6589

Ion Ratio Lower Upper

128 100

127 12.1 10.6 16.0

129 10.1 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

