

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062819\
 Data File : VX010569.D
 Acq On : 29 Jun 2019 05:24
 Operator : JC/SP
 Sample : K3555-24
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SAMPLE-14

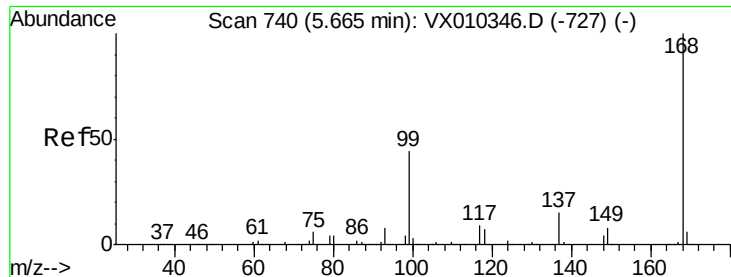
Quant Time: Jun 29 07:03:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	245074	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	380682	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	355308	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	165441	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	117822	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
35) Dibromofluoromethane	5.50	113	113206	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
50) Toluene-d8	8.71	98	457111	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
62) 4-Bromofluorobenzene	11.13	95	154820	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.06	59	612	1.018	ug/l #	2
13) Acrolein	2.30	56	489	1.226	ug/l #	29
16) Acetone	2.45	43	11323	9.832	ug/l	97
18) Methyl Acetate	2.78	43	2805	1.222	ug/l #	70
20) Methylene Chloride	2.86	84	33530	14.148	ug/l	94
25) 2-Butanone	4.68	43	2143	1.269	ug/l #	78
29) Tetrahydrofuran	5.15	42	568	0.543	ug/l #	48
30) Chloroform	5.21	83	1838	0.469	ug/l	96
36) 1,1-Dichloropropene	5.66	75	15127	5.000	ug/l #	48
38) Carbon Tetrachloride	5.66	117	21449	6.548	ug/l #	15
43) Isopropyl Acetate	6.45	43	9711	1.886	ug/l	96
48) Methyl methacrylate	7.68	41	5768	2.410	ug/l #	10
49) 1,4-Dioxane	7.71	88	19	0.276	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	72407	21.988	ug/l #	47
54) cis-1,3-Dichloropropene	8.62	75	39052	10.243	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	9761	2.457	ug/l #	44
59) 2-Hexanone	9.44	43	9485	3.660	ug/l #	22
74) N-amyl acetate	10.69	43	11848	2.795	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	73382	24.341	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	3003	0.325	ug/l	80
81) trans-1,4-Dichloro-2-buten	11.13	75	73382	56.785	ug/l #	16
95) Naphthalene	13.83	128	8267	0.714	ug/l #	93

(#) = 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. 0.00 min

Lab File: VX010569.D

Acq: 29 Jun 2019 05:24

Instrument :

MSVOA_X

ClientSampled :

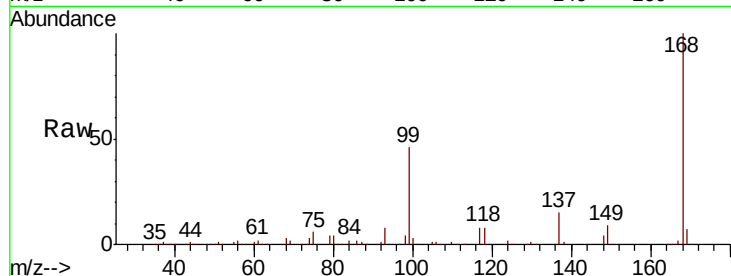
SAMPLE-14

Tot Ion:168 Resp: 245074

Ion Ratio Lower Upper

168 100

99 45.8 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

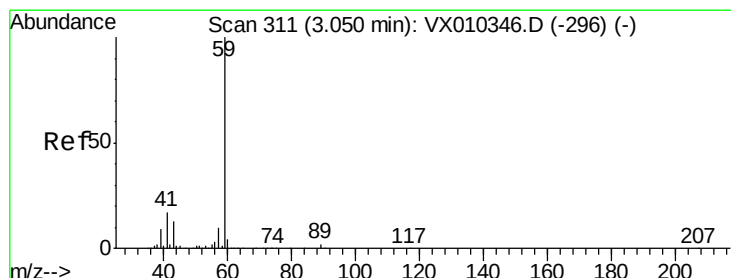
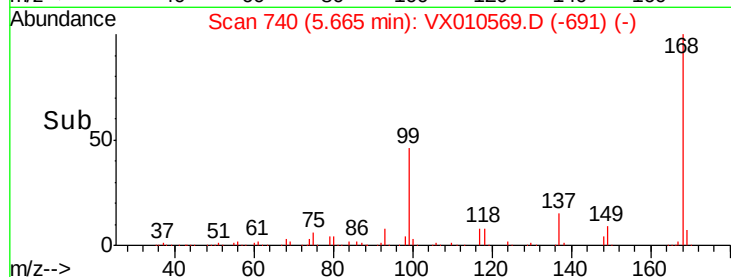
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 1.018 ug/l

RT: 3.06 min Scan# 312

Delta R.T. 0.01 min

Lab File: VX010569.D

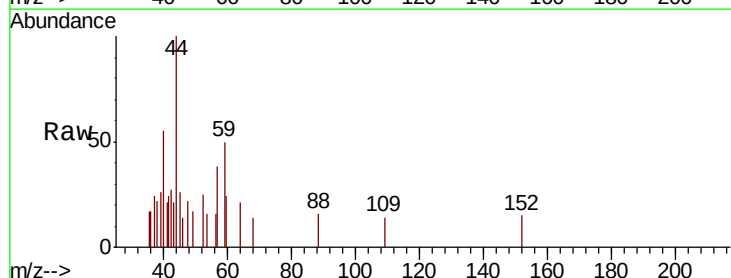
Acq: 29 Jun 2019 05:24

Tgt Ion: 59 Resp: 612

Ion Ratio Lower Upper

59 100

57 45.6 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.06

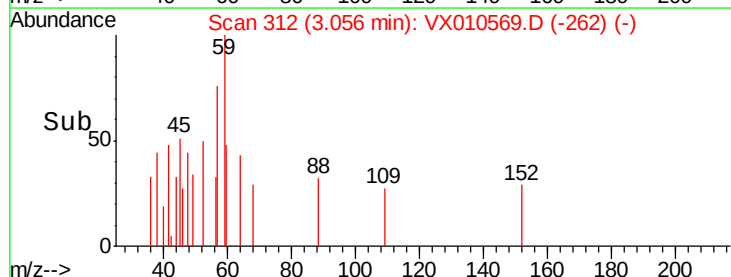
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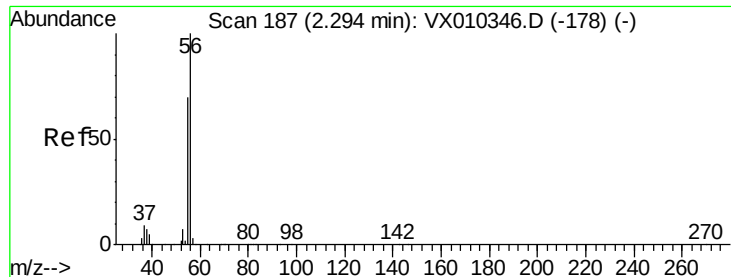
200

100

0

Time--> 3.05 3.10





#13

Acrolein

Concen: 1.226 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX010569.D

Acq: 29 Jun 2019 05:24

Instrument :

MSVOA_X

ClientSampleId :

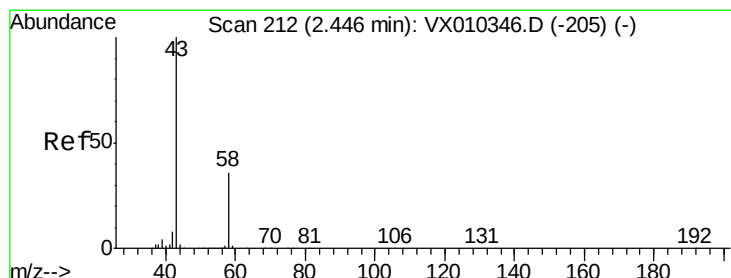
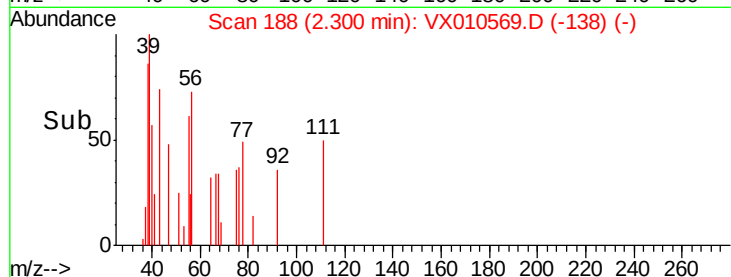
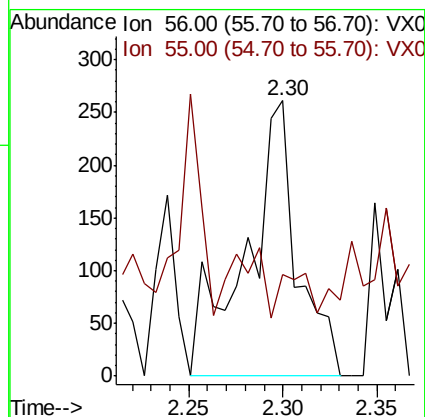
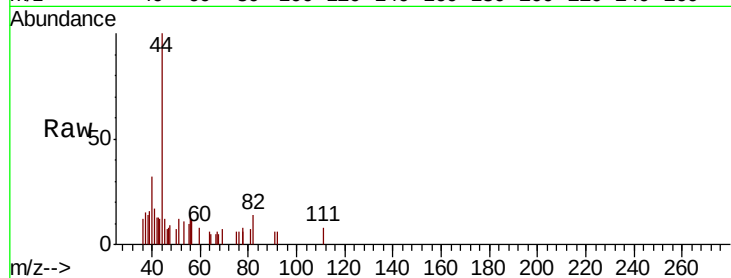
SAMPLE-14

Tot Ion: 56 Resp: 489

Ion Ratio Lower Upper

56 100

55 12.7 56.9 85.3#



#16

Acetone

Concen: 9.832 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010569.D

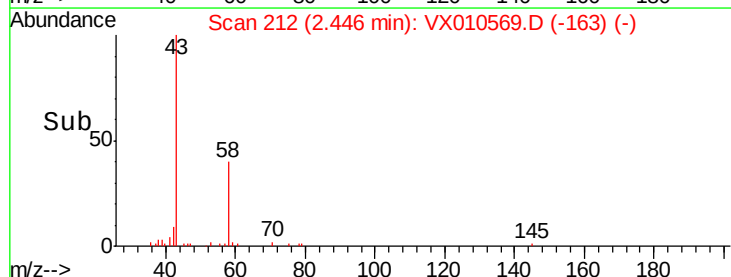
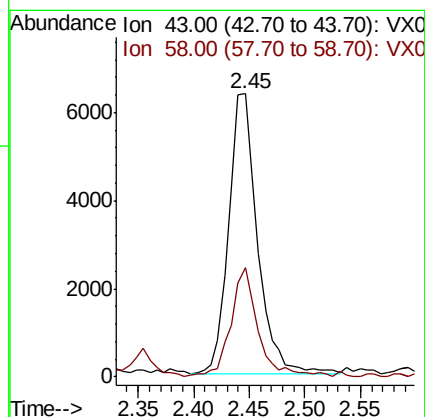
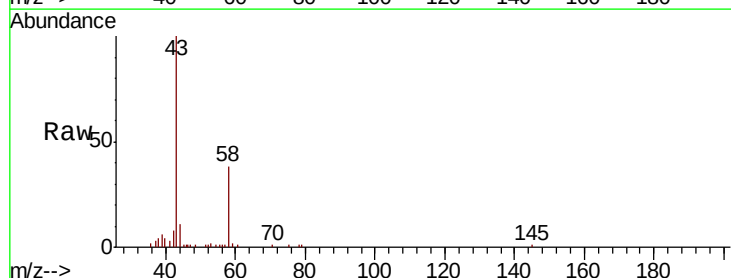
Acq: 29 Jun 2019 05:24

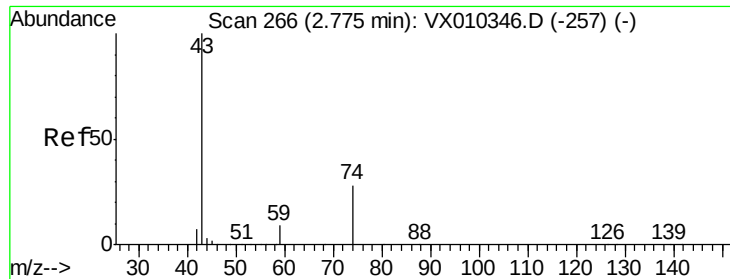
Tgt Ion: 43 Resp: 11323

Ion Ratio Lower Upper

43 100

58 38.1 28.9 43.3

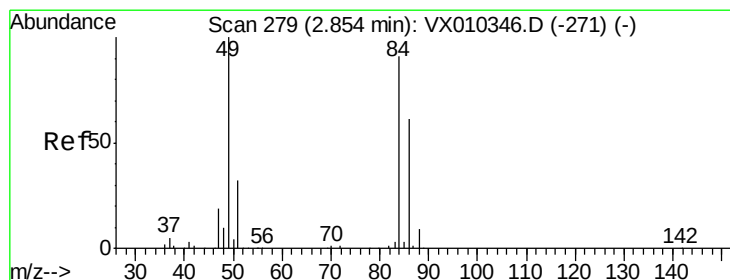
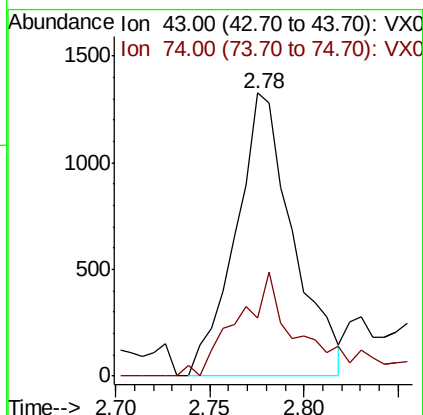
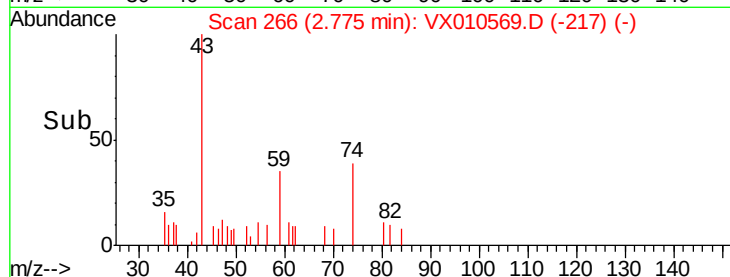
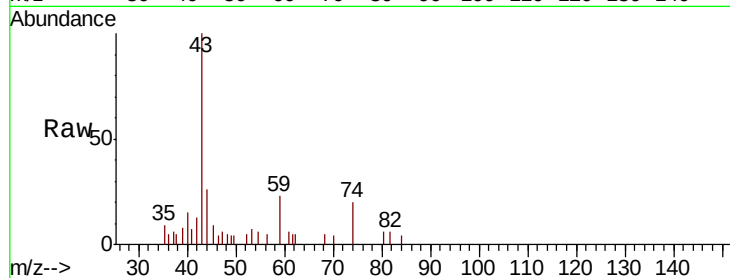




#18
Methyl Acetate
Concen: 1.222 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX010569.D
Acq: 29 Jun 2019 05:24

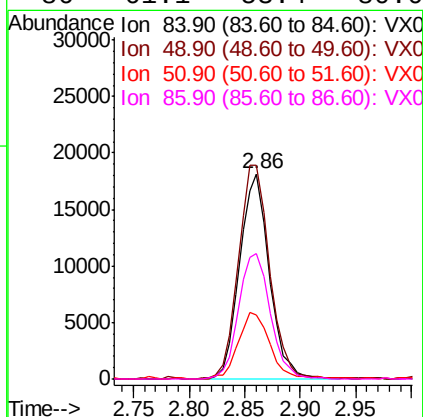
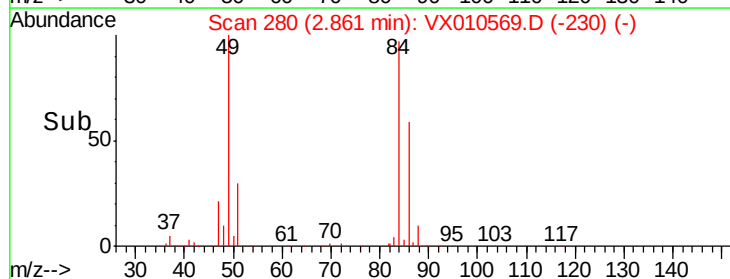
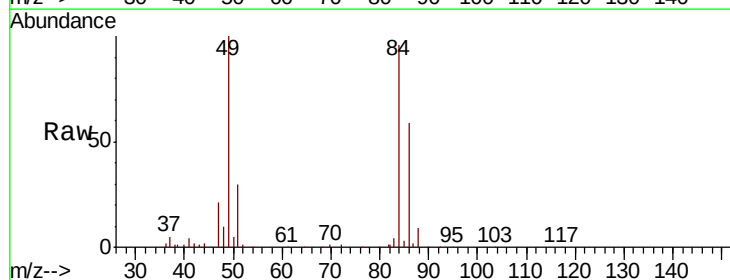
Instrument :
MSVOA_X
ClientSampled :
SAMPLE-14

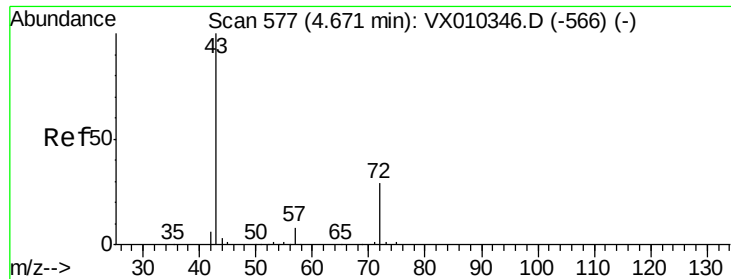
Tot Ion: 43 Resp: 2805
Ion Ratio Lower Upper
43 100
74 42.1 21.3 31.9#



#20
Methylene Chloride
Concen: 14.148 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010569.D
Acq: 29 Jun 2019 05:24

Tgt Ion: 84 Resp: 33530
Ion Ratio Lower Upper
84 100
49 104.0 87.5 131.3
51 31.5 27.7 41.5
86 61.1 53.4 80.0





#25

2-Butanone

Concen: 1.269 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX010569.D

Acq: 29 Jun 2019 05:24

Instrument :

MSVOA_X

ClientSampled :

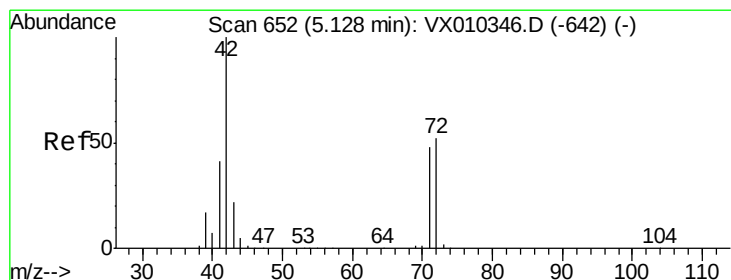
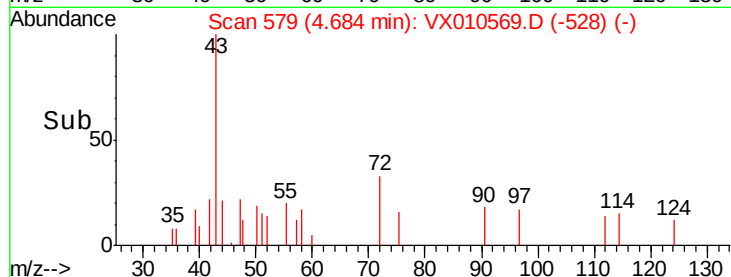
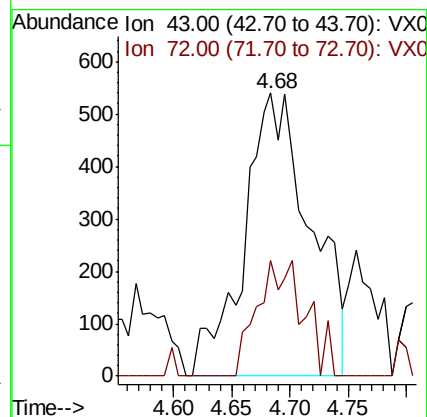
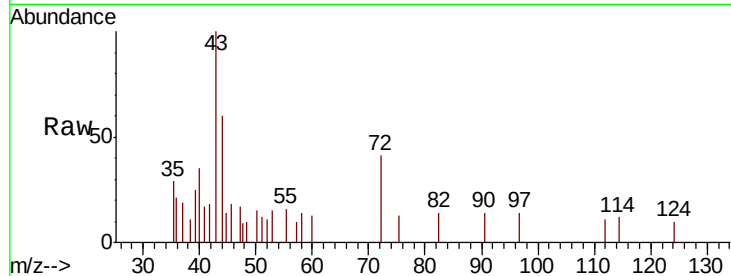
SAMPLE-14

Tot Ion: 43 Resp: 2143

Ion Ratio Lower Upper

43 100

72 41.1 23.3 34.9#



#29

Tetrahydrofuran

Concen: 0.543 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX010569.D

Acq: 29 Jun 2019 05:24

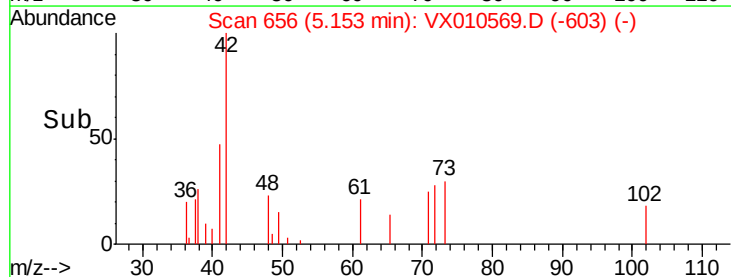
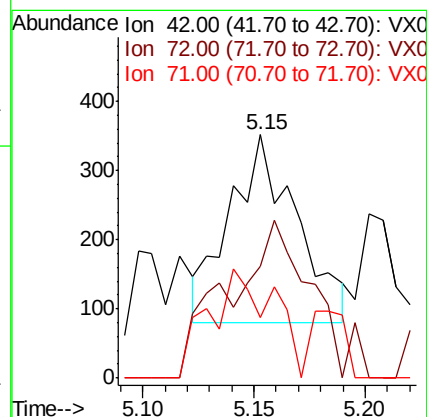
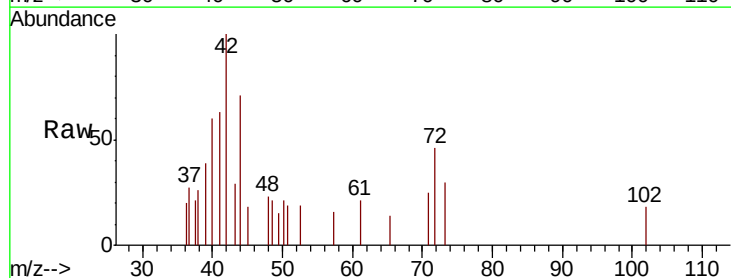
Tgt Ion: 42 Resp: 568

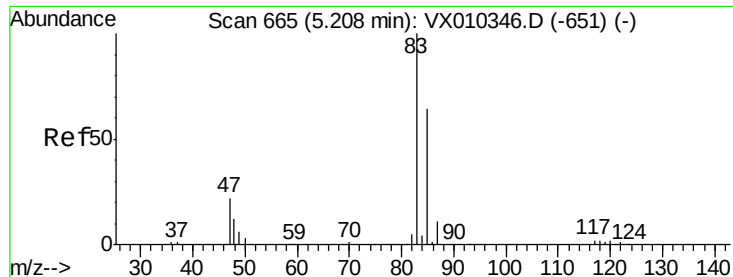
Ion Ratio Lower Upper

42 100

72 75.2 40.6 60.8#

71 0.0 37.8 56.8#

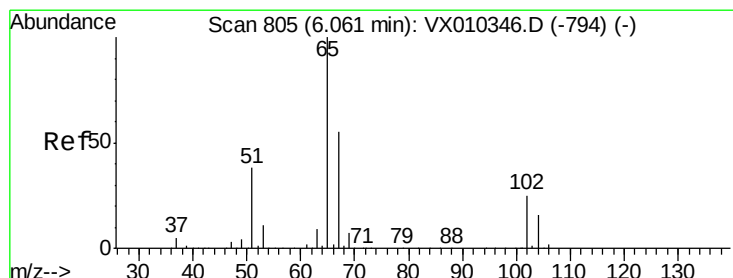
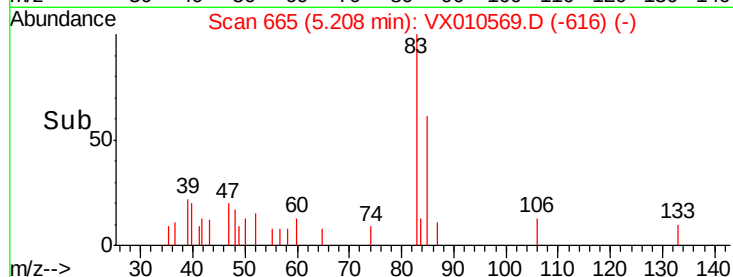
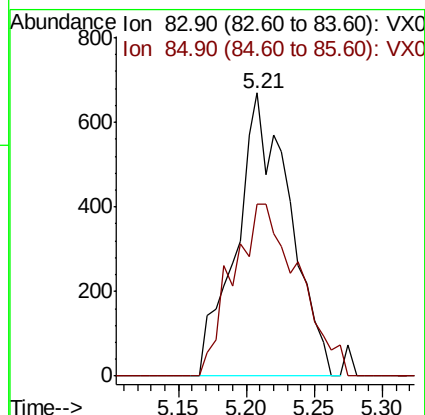
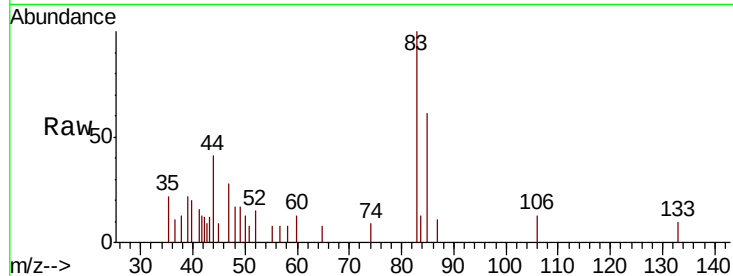




#30
Chloroform
Concen: 0.469 ug/l
RT: 5.21 min Scan# 665
Delta R.T. 0.00 min
Lab File: VX010569.D
Acq: 29 Jun 2019 05:24

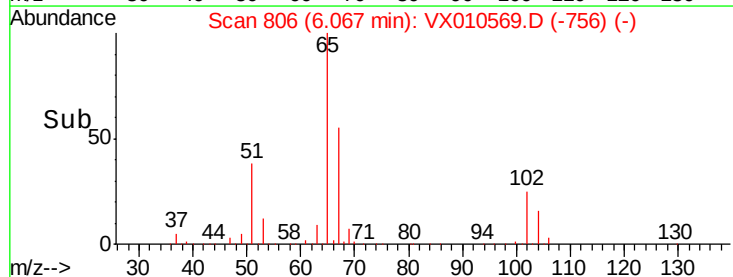
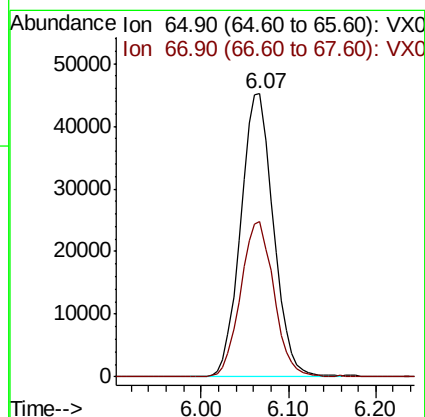
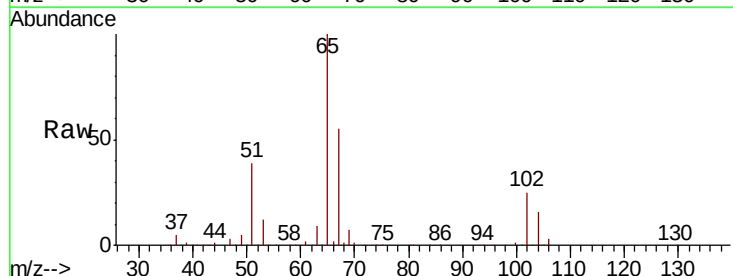
Instrument :
MSVOA_X
ClientSampleId :
SAMPLE-14

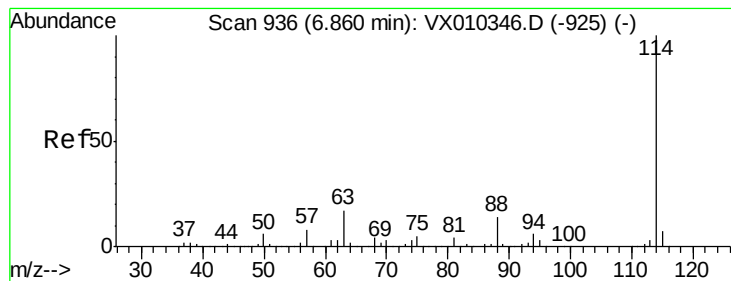
Tot Ion: 83 Resp: 1838
Ion Ratio Lower Upper
83 100
85 60.7 50.9 76.3



#33
1,2-Dichloroethane-d4
Concen: 51.276 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX010569.D
Acq: 29 Jun 2019 05:24

Tgt Ion: 65 Resp: 117822
Ion Ratio Lower Upper
65 100
67 55.6 0.0 110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010569.D

Acq: 29 Jun 2019 05:24

Instrument :

MSVOA_X

ClientSampleId :

SAMPLE-14

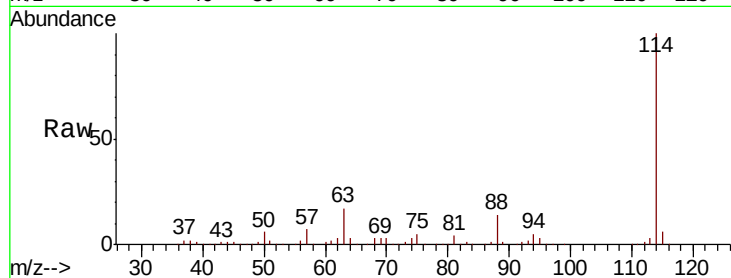
Tot Ion:114 Resp: 380682

Ion Ratio Lower Upper

114 100

63 17.1 0.0 33.8

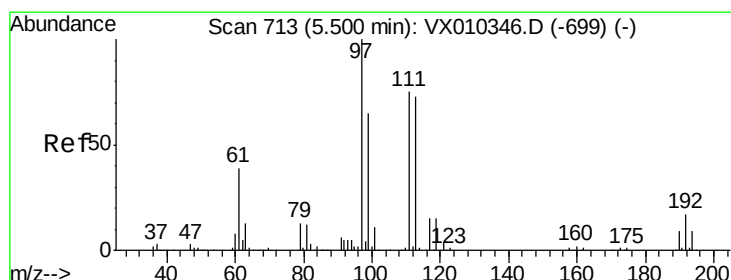
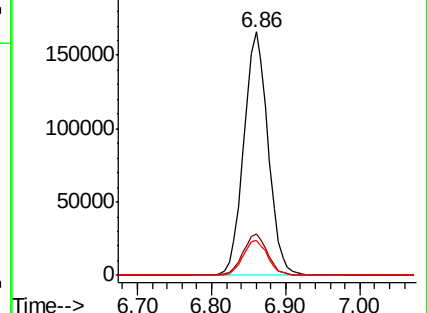
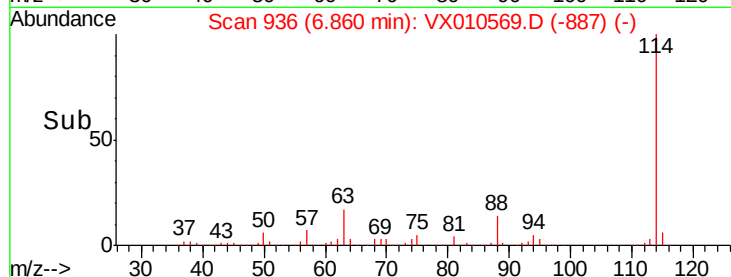
88 14.2 0.0 27.6



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: 48.604 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010569.D

Acq: 29 Jun 2019 05:24

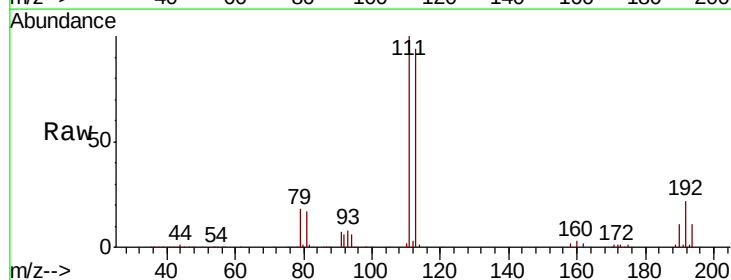
Tgt Ion:113 Resp: 113206

Ion Ratio Lower Upper

113 100

111 104.1 81.2 121.8

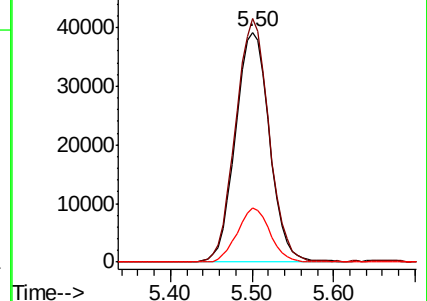
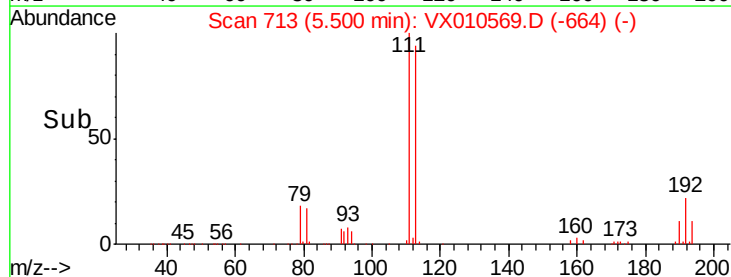
192 22.7 18.6 27.8

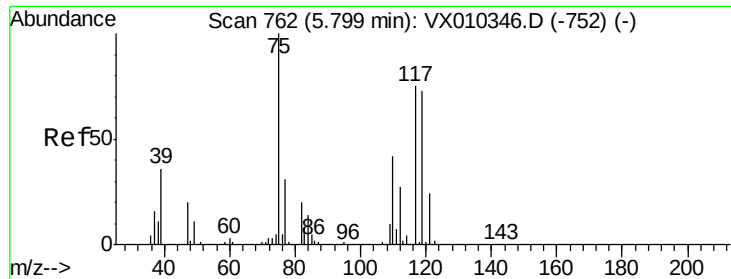


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

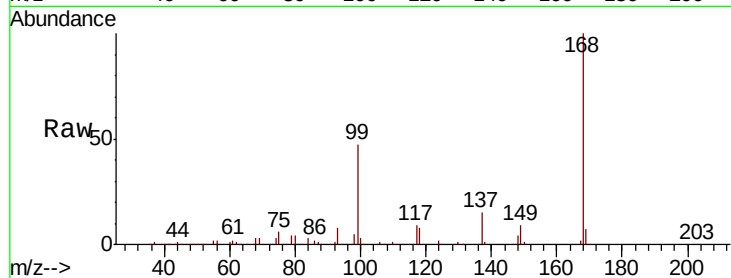




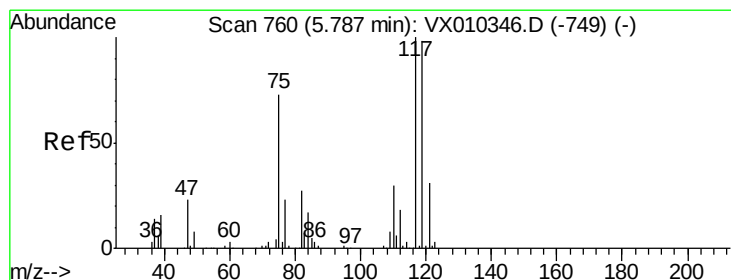
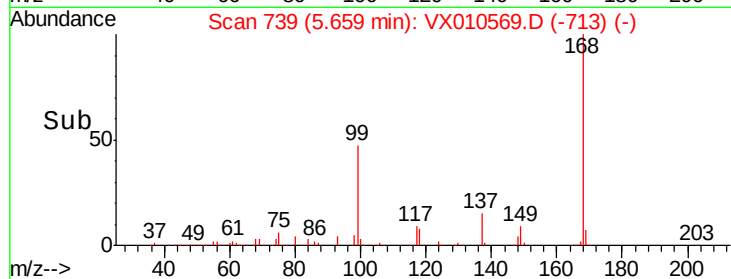
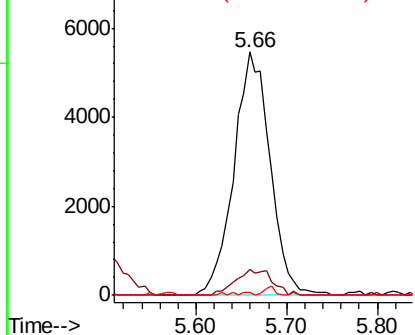
#36
 1,1-Dichloropropene
 Concen: 5.000 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010569.D
 Acq: 29 Jun 2019 05:24

Instrument :
 MSVOA_X
 ClientSampleId :
 SAMPLE-14

Tot Ion	Ratio	Lower	Upper
75	100		
110	10.7	20.8	62.2#
77	0.4	25.4	38.0#

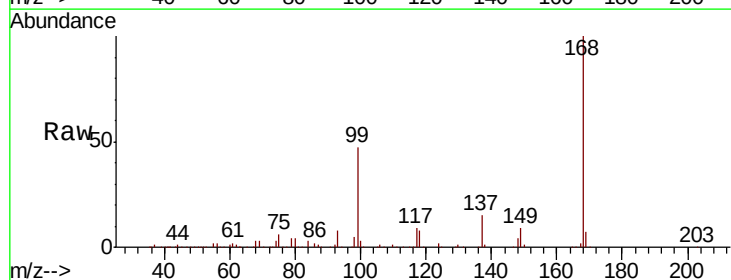


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

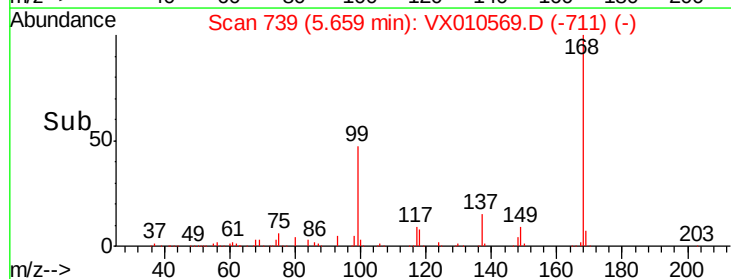
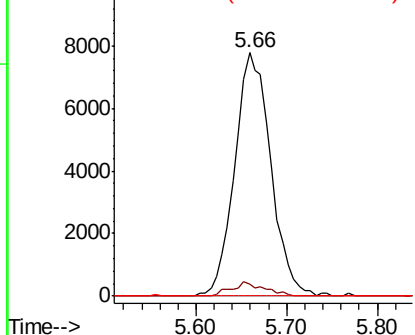


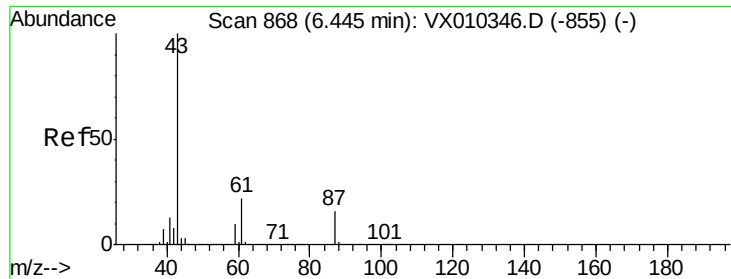
#38
 Carbon Tetrachloride
 Concen: 6.548 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX010569.D
 Acq: 29 Jun 2019 05:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	78.2	117.4#
121	0.0	24.7	37.1#



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





#43

Isopropyl Acetate

Concen: 1.886 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.00 min

Lab File: VX010569.D

Acq: 29 Jun 2019 05:24

Instrument :

MSVOA_X

ClientSampled :

SAMPLE-14

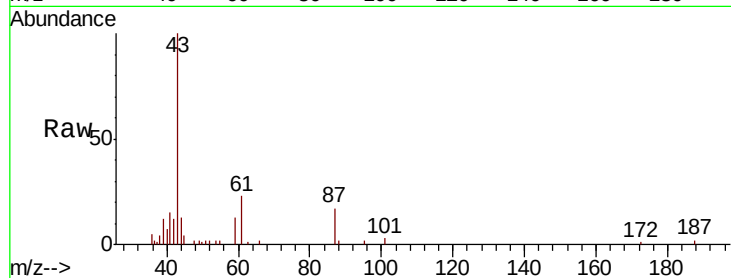
Tot Ion: 43 Resp: 9711

Ion Ratio Lower Upper

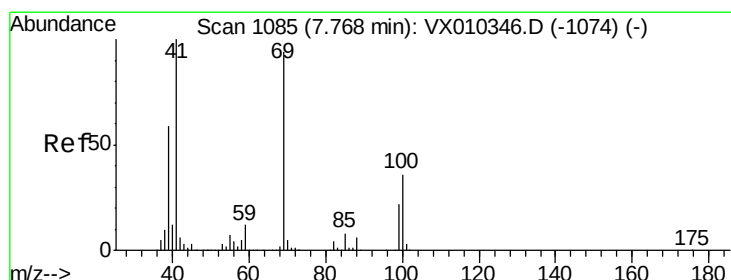
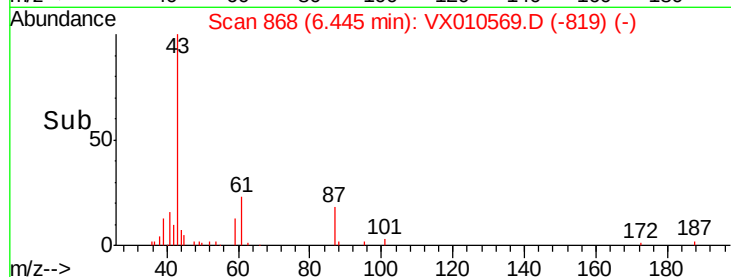
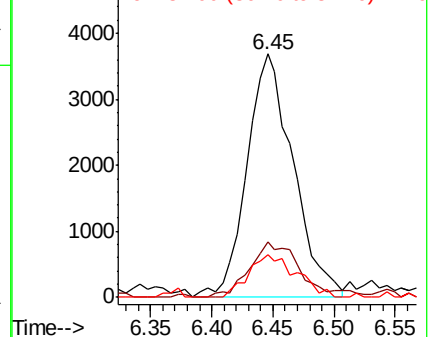
43 100

61 23.7 17.8 26.6

87 18.0 13.0 19.4



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: 2.410 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX010569.D

Acq: 29 Jun 2019 05:24

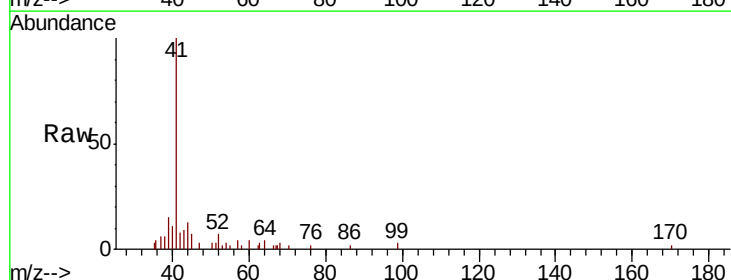
Tgt Ion: 41 Resp: 5768

Ion Ratio Lower Upper

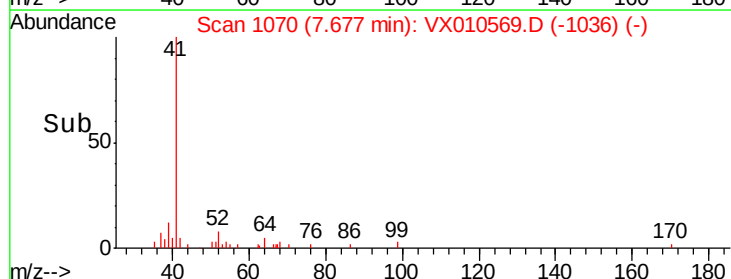
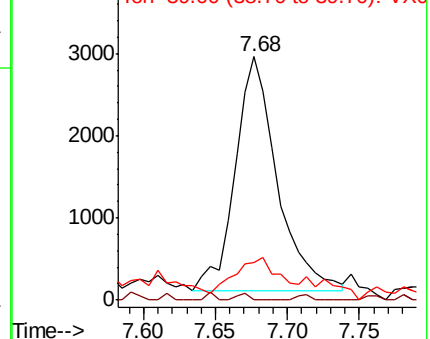
41 100

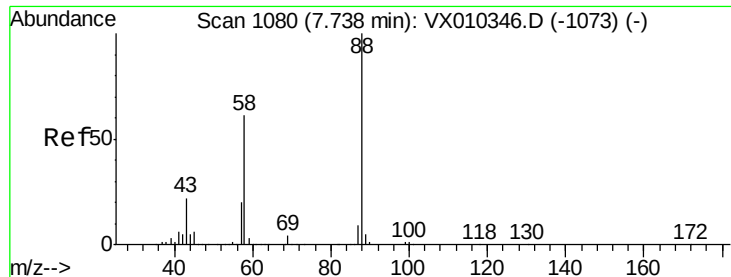
69 0.8 76.1 114.1#

39 0.0 47.6 71.4#



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

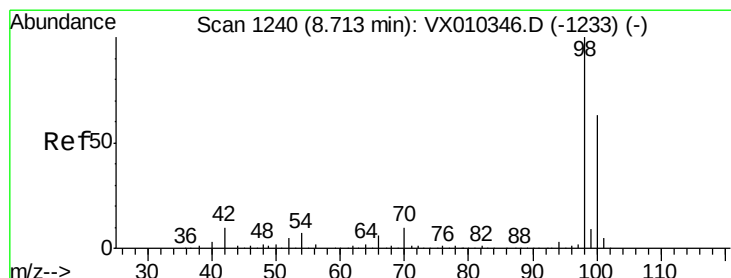
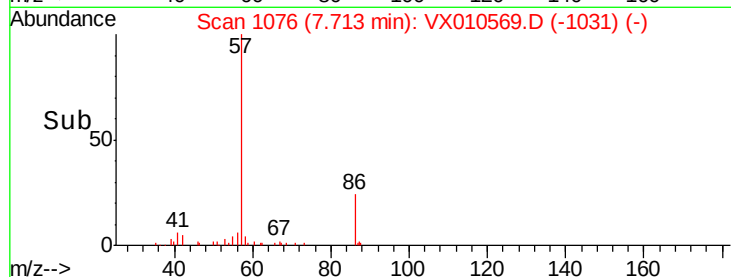
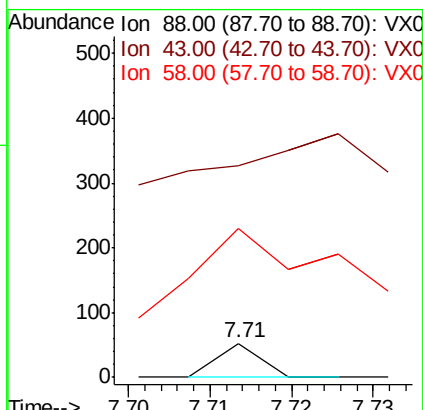
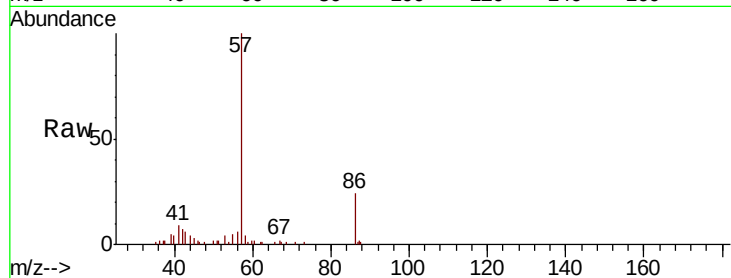




#49
1,4-Dioxane
Concen: 0.276 ug/l
RT: 7.71 min Scan# 1076
Delta R.T. -0.02 min
Lab File: VX010569.D
Acq: 29 Jun 2019 05:24

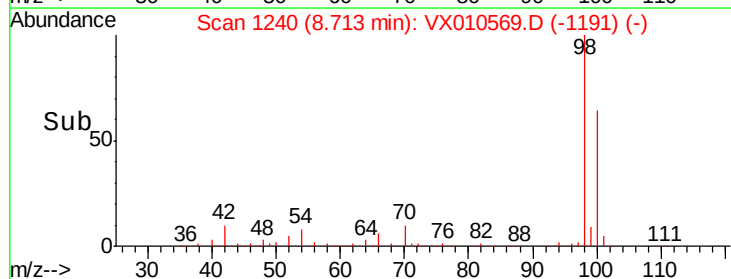
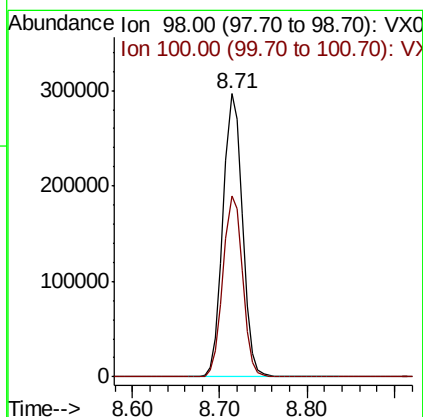
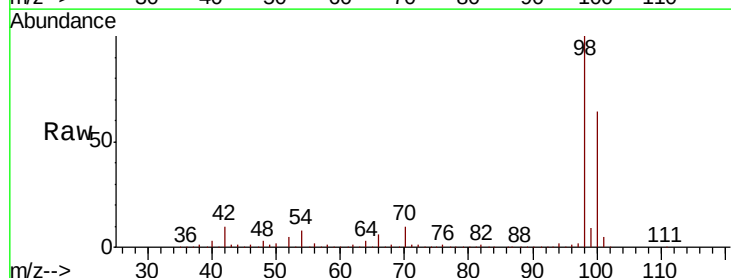
Instrument :
MSVOA_X
ClientSampled :
SAMPLE-14

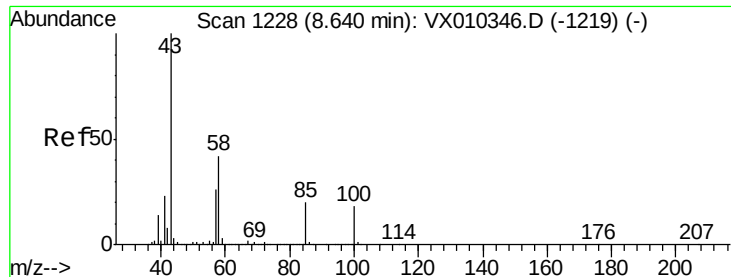
Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.2#
58 2773.7 49.5 74.3#



#50
Toluene-d8
Concen: 51.298 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010569.D
Acq: 29 Jun 2019 05:24

Tgt Ion: 98 Resp: 457111
Ion Ratio Lower Upper
98 100
100 64.4 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 21.988 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.02 min

Lab File: VX010569.D

Acq: 29 Jun 2019 05:24

Instrument :

MSVOA_X

ClientSampled :

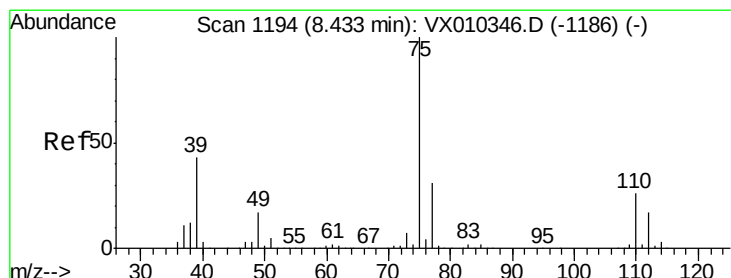
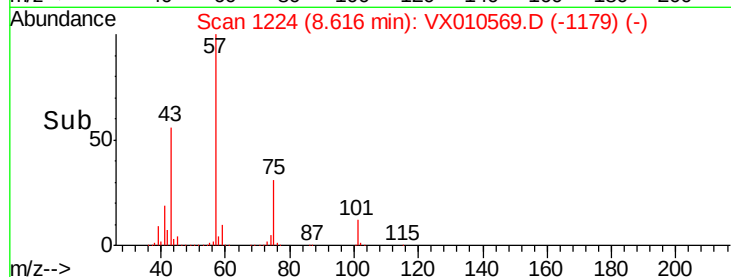
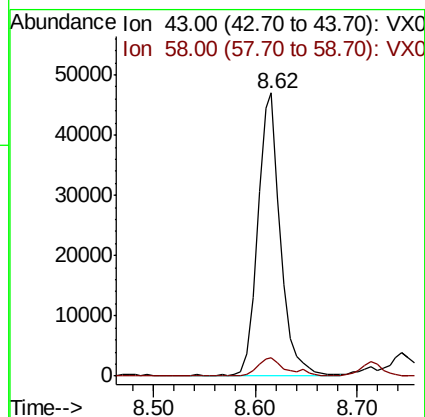
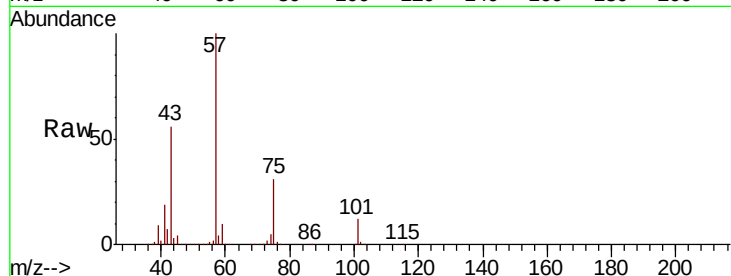
SAMPLE-14

Tot Ion: 43 Resp: 72407

Ion Ratio Lower Upper

43 100

58 8.5 33.5 50.3#



#54

cis-1,3-Dichloropropene

Concen: 10.243 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX010569.D

Acq: 29 Jun 2019 05:24

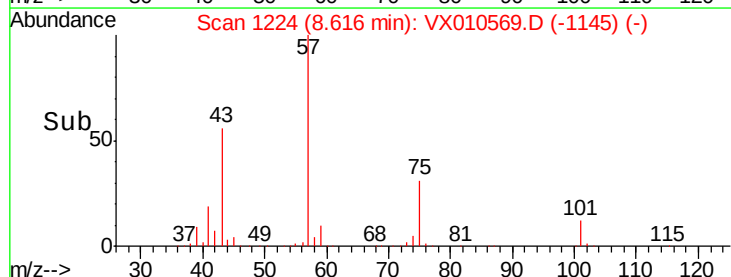
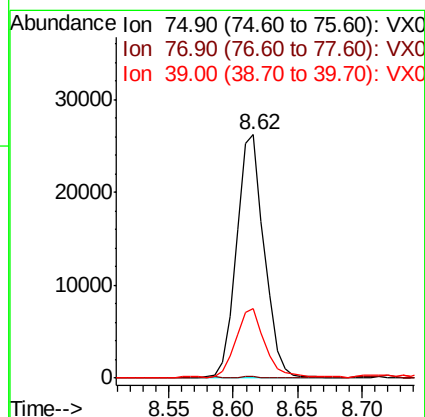
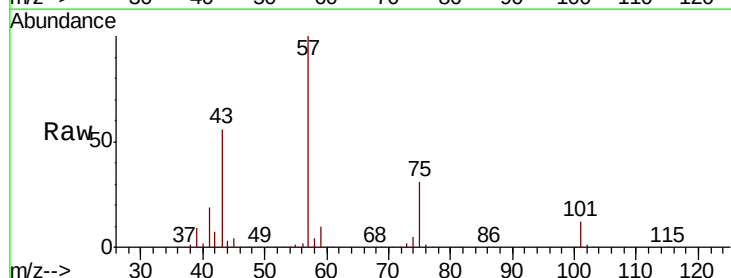
Tgt Ion: 75 Resp: 39052

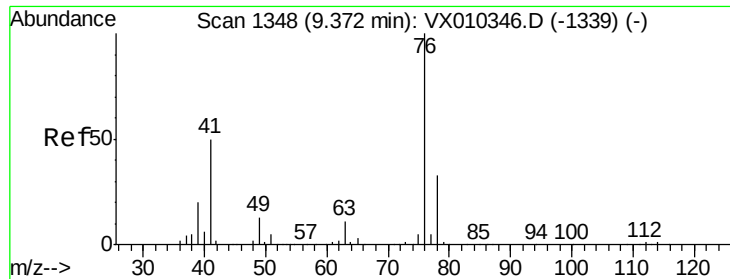
Ion Ratio Lower Upper

75 100

77 0.7 25.2 37.8#

39 28.1 34.5 51.7#

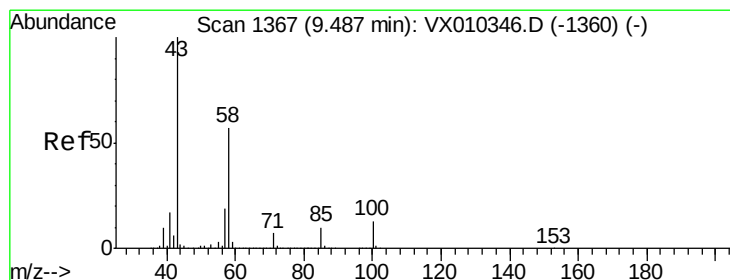
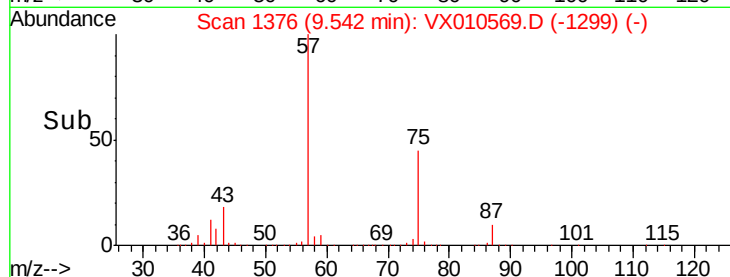
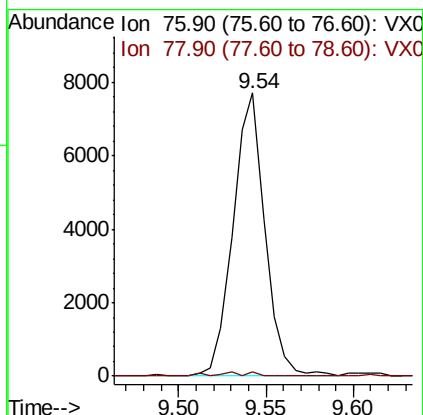
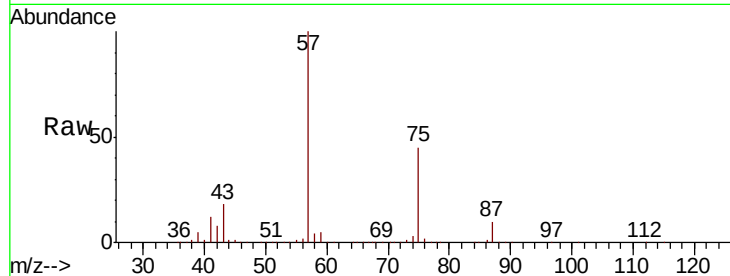




#57
 1,3-Dichloropropane
 Concen: 2.457 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX010569.D
 Acq: 29 Jun 2019 05:24

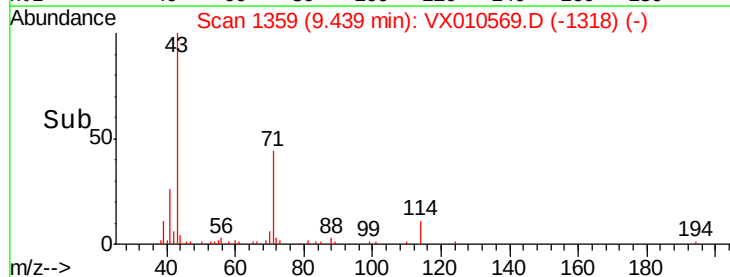
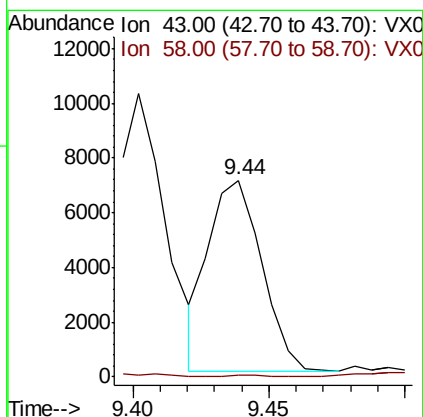
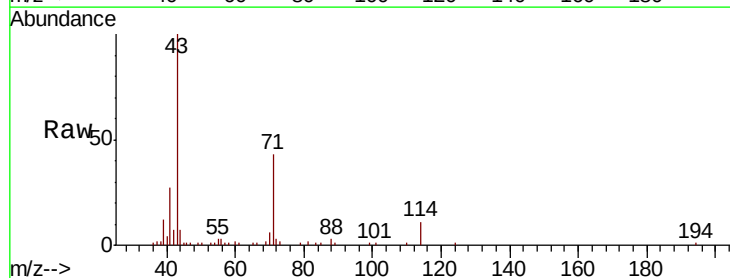
Instrument :
 MSVOA_X
 ClientSampleId :
 SAMPLE-14

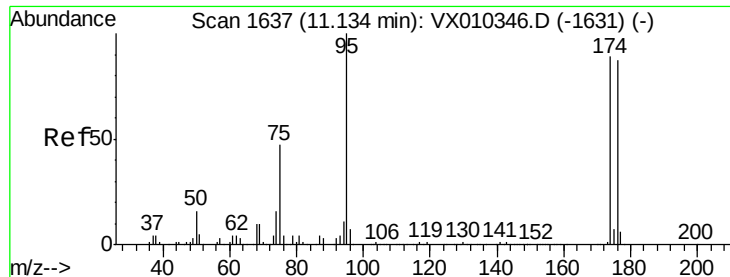
Tot Ion: 76 Resp: 9761
 Ion Ratio Lower Upper
 76 100
 78 1.3 26.1 39.1#



#59
 2-Hexanone
 Concen: 3.660 ug/l
 RT: 9.44 min Scan# 1359
 Delta R.T. -0.05 min
 Lab File: VX010569.D
 Acq: 29 Jun 2019 05:24

Tgt Ion: 43 Resp: 9485
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.0 87.1#





#62

4-Bromofluorobenzene

Concen: 48.124 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010569.D

Acq: 29 Jun 2019 05:24

Instrument :

MSVOA_X

ClientSampleId :

SAMPLE-14

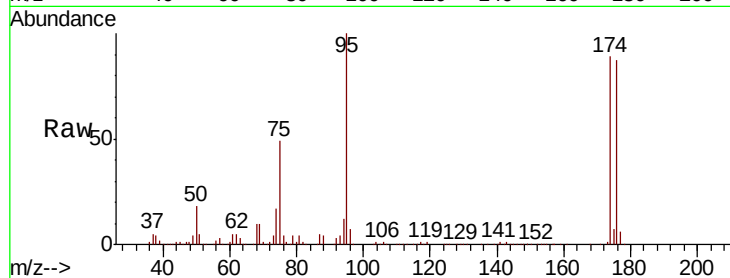
Tot Ion: 95 Resp: 154820

Ion Ratio Lower Upper

95 100

174 94.1 0.0 187.6

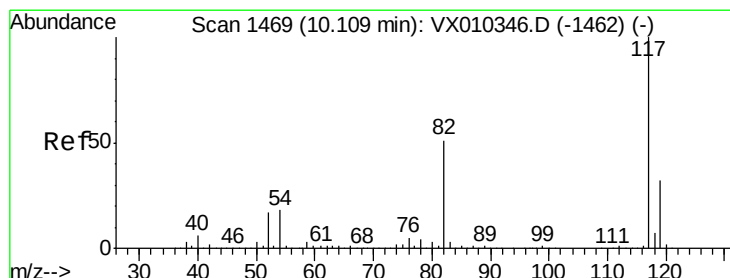
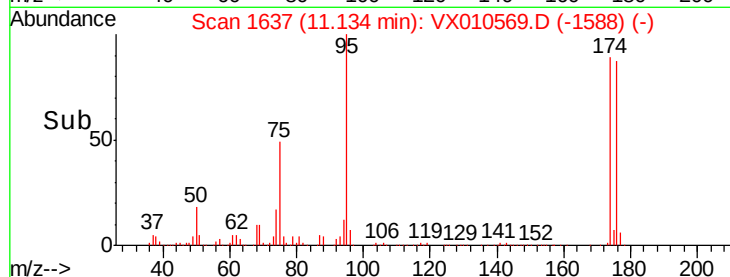
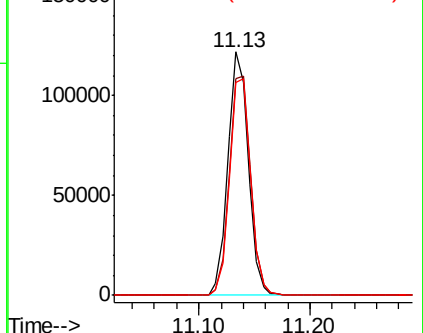
176 91.8 0.0 184.0



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: VX010569.D

Acq: 29 Jun 2019 05:24

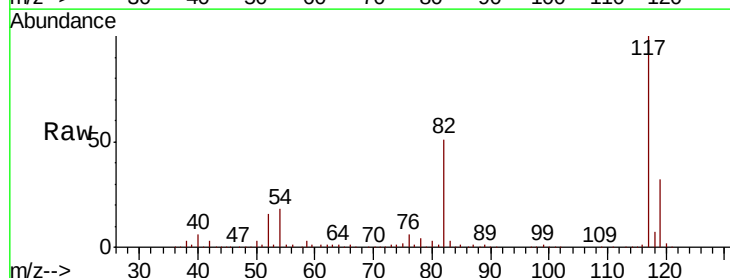
Tgt Ion: 117 Resp: 355308

Ion Ratio Lower Upper

117 100

82 51.4 41.2 61.8

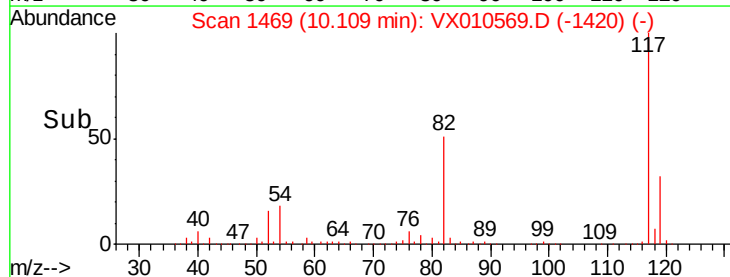
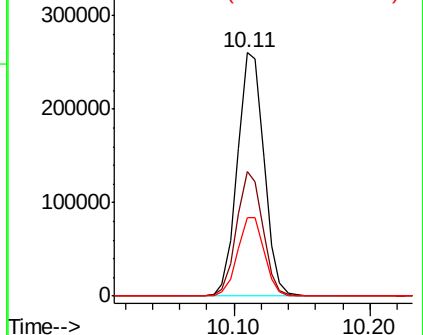
119 32.1 25.5 38.3

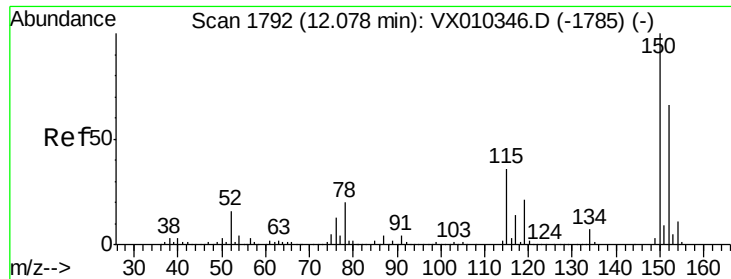


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



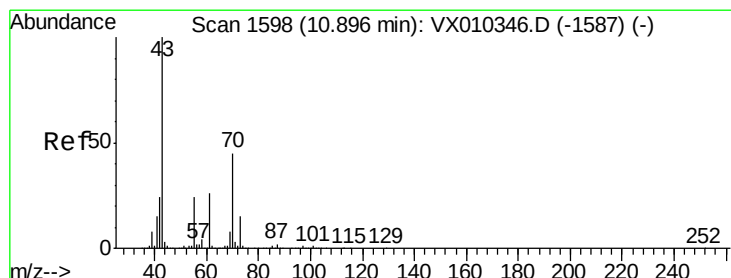
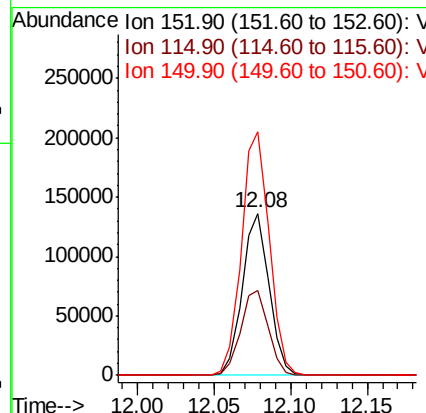
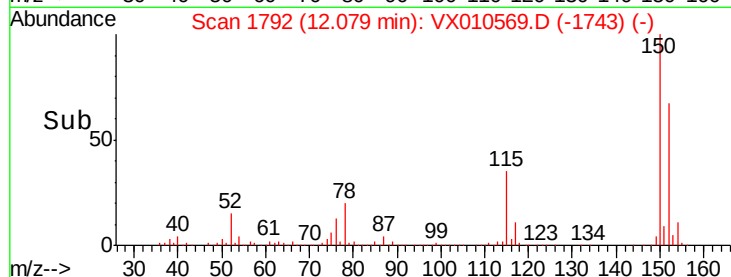
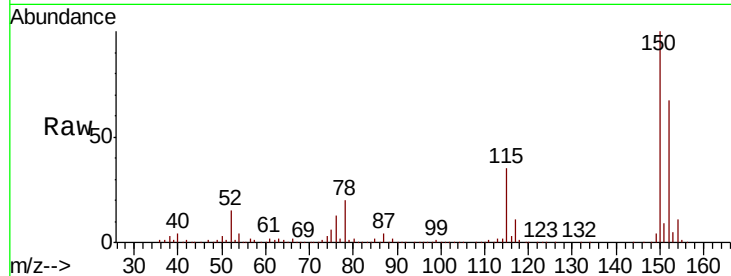


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010569.D
Acq: 29 Jun 2019 05:24

Instrument :
MSVOA_X
ClientSampled :
SAMPLE-14

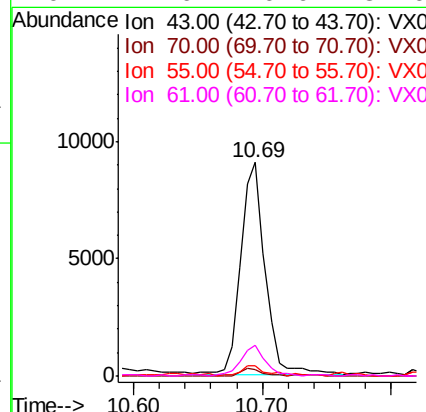
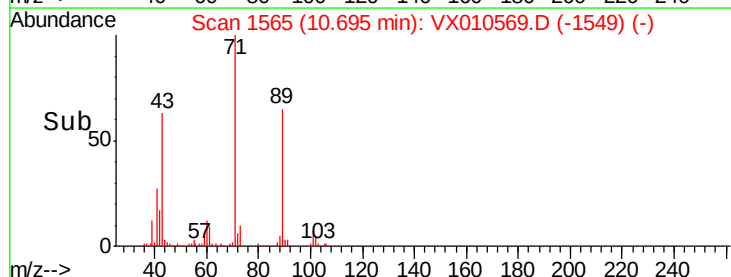
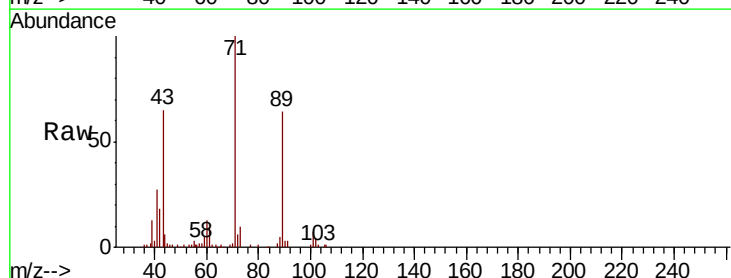
Tot Ion:152 Resp: 165441
Ion Ratio Lower Upper
152 100
115 54.4 38.6 115.7
150 155.2 0.0 347.4

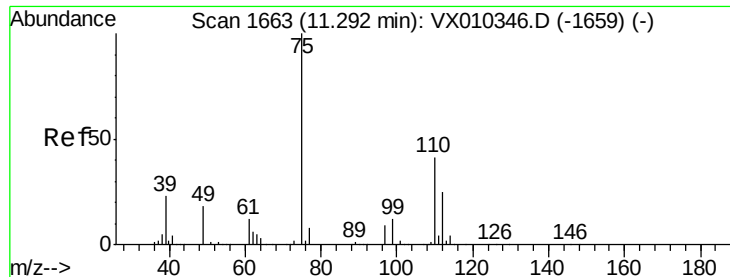


#74

N-ethyl acetate
Concen: 2.795 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.20 min
Lab File: VX010569.D
Acq: 29 Jun 2019 05:24

Tgt Ion: 43 Resp: 11848
Ion Ratio Lower Upper
43 100
70 3.2 36.6 54.8#
55 5.1 18.7 28.1#
61 14.6 20.6 31.0#

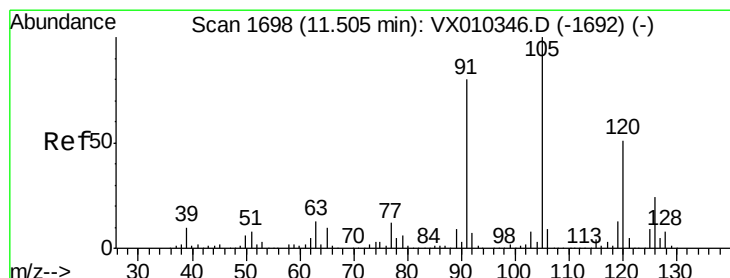
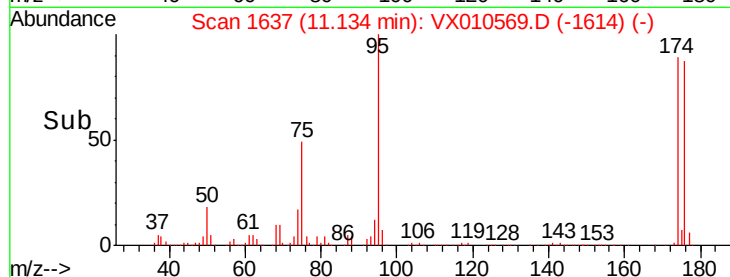
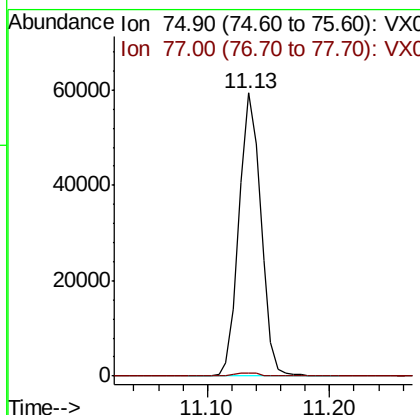
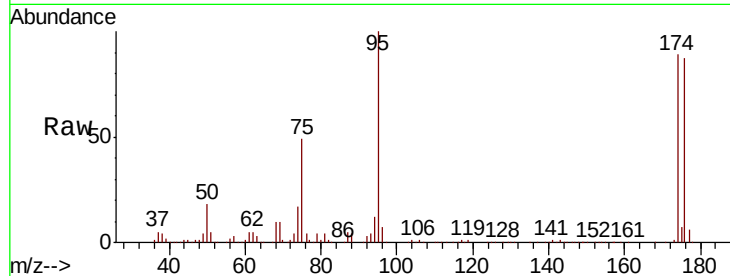




#76
 1,2,3-Trichloropropane
 Concen: 24.341 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010569.D
 Acq: 29 Jun 2019 05:24

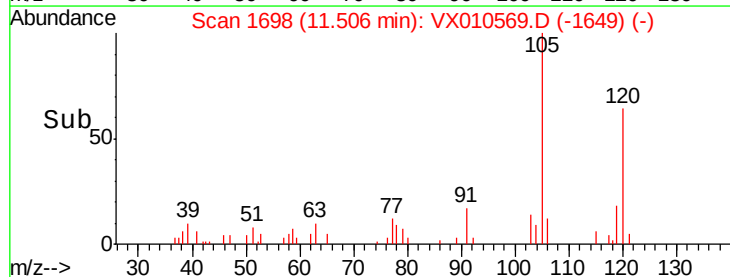
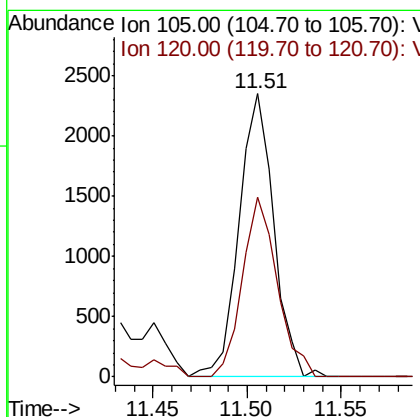
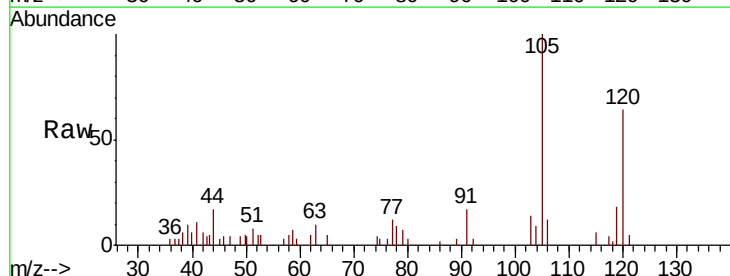
Instrument :
 MSVOA_X
 ClientSampleId :
 SAMPLE-14

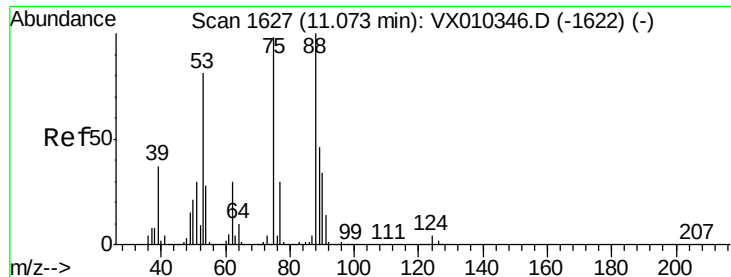
Tot Ion: 75 Resp: 73382
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.6 67.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.325 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX010569.D
 Acq: 29 Jun 2019 05:24

Tgt Ion: 105 Resp: 3003
 Ion Ratio Lower Upper
 105 100
 120 64.0 25.2 75.6





#81

trans-1,4-Dichloro-2-butene

Concen: 56.785 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010569.D

Acq: 29 Jun 2019 05:24

Instrument :

MSVOA_X

ClientSampleId :

SAMPLE-14

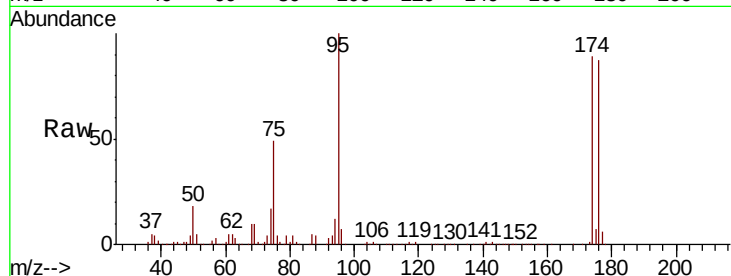
Tot Ion: 75 Resp: 73382

Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

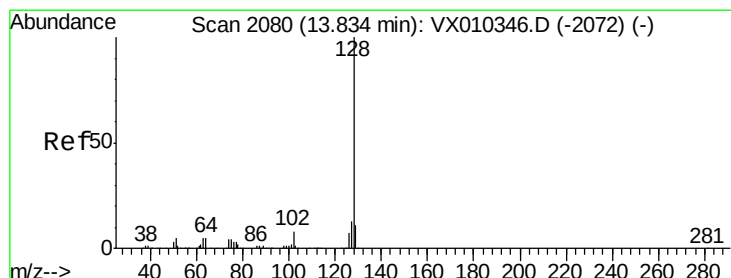
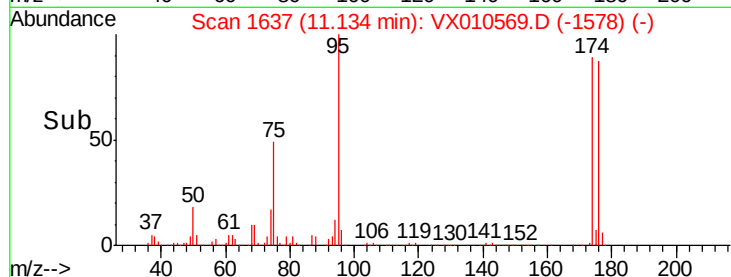
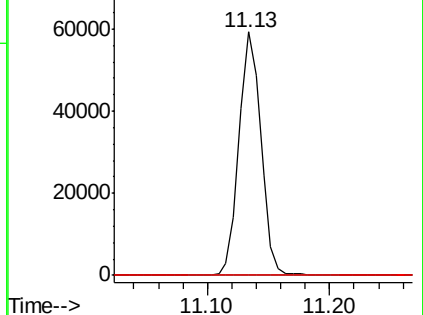
89 0.1 37.8 56.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 0.714 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX010569.D

Acq: 29 Jun 2019 05:24

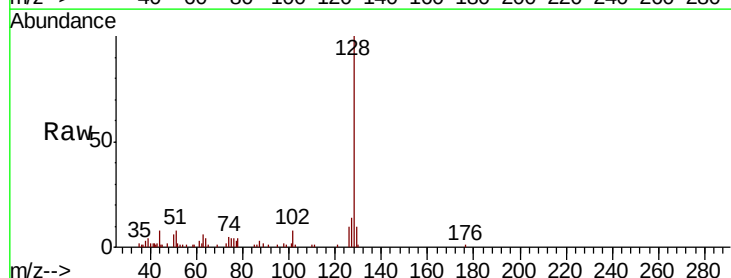
Tgt Ion: 128 Resp: 8267

Ion Ratio Lower Upper

128 100

127 15.2 10.2 15.4

129 13.9 8.9 13.3#



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

