

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081318\
 Data File : VX004007.D
 Acq On : 13 Aug 2018 18:21
 Operator : JC/MD
 Sample : J4442-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SP-1-1

Quant Time: Aug 14 03:10:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 13 01:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	292511	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	491627	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	467346	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	250163	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	219885	56.71	ug/l	0.00
Spiked Amount			Recovery	=	113.42%	
35) Dibromofluoromethane	5.51	113	178166	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
50) Toluene-d8	8.72	98	688681	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
62) 4-Bromofluorobenzene	11.14	95	232203	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	

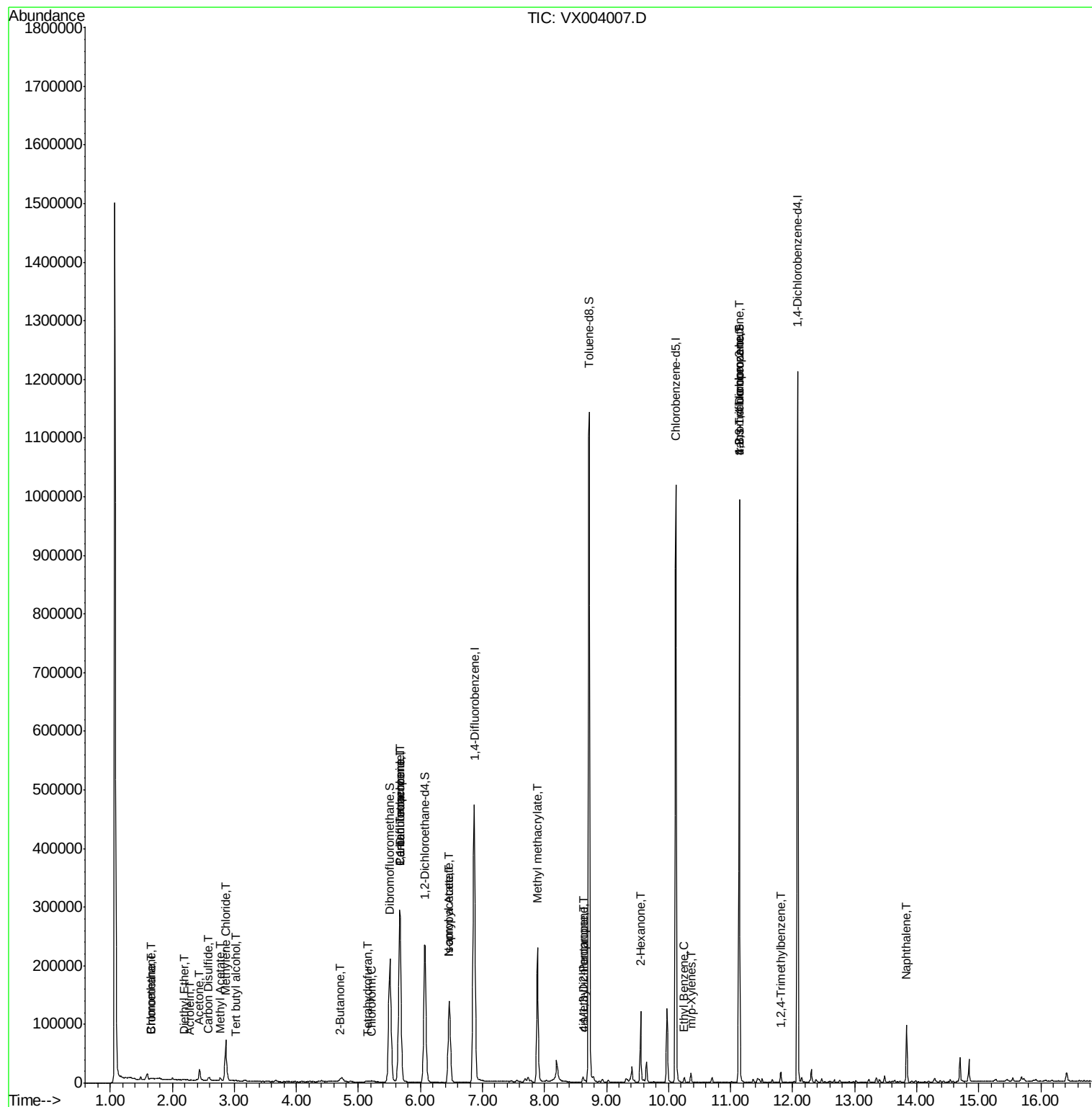
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	586	0.23	ug/l	94
6) Chloroethane	1.65	64	4391	1.71	ug/l #	55
8) Diethyl Ether	2.18	74	608	0.25	ug/l	80
11) Tert butyl alcohol	3.03	59	834	0.90	ug/l #	73
13) Acrolein	2.28	56	266	0.52	ug/l #	76
16) Acetone	2.43	43	19795	8.58	ug/l	99
17) Carbon Disulfide	2.57	76	2165	0.23	ug/l #	94
18) Methyl Acetate	2.77	43	6697	1.33	ug/l	95
20) Methylene Chloride	2.86	84	32622	5.83	ug/l	98
25) 2-Butanone	4.69	43	4544	1.31	ug/l #	89
29) Tetrahydrofuran	5.15	42	2170	1.22	ug/l #	76
30) Chloroform	5.21	83	2065	0.33	ug/l	90
36) 1,1-Dichloropropene	5.67	75	20584	3.74	ug/l #	49
38) Carbon Tetrachloride	5.67	117	26270	5.01	ug/l #	15
43) Isopropyl Acetate	6.46	43	183868	20.17	ug/l	99
48) Methyl methacrylate	7.88	41	20834	4.50	ug/l #	41
51) 4-Methyl-2-Pentanone	8.62	43	4182	0.55	ug/l #	34
54) cis-1,3-Dichloropropene	8.63	75	1445	0.23	ug/l #	72
59) 2-Hexanone	9.55	43	13325	2.36	ug/l #	52
67) Ethyl Benzene	10.26	91	4292	0.22	ug/l	94
68) m/p-Xylenes	10.36	106	3589	0.46	ug/l	100
74) N-amyl acetate	6.46	43	183868	19.11	ug/l #	99
76) 1,2,3-Trichloropropane	11.14	75	117622	21.29	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	117622	64.88	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	7627	0.50	ug/l	97
95) Naphthalene	13.83	128	62456	3.35	ug/l	99

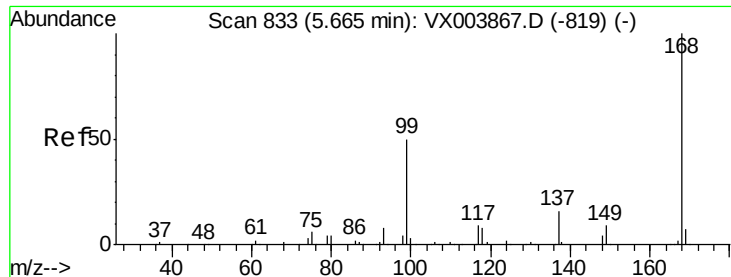
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Aug 13 01:34:27 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX004007.D

Acq: 13 Aug 2018 18:21

Instrument :

MSVOA_X

ClientSampleId :

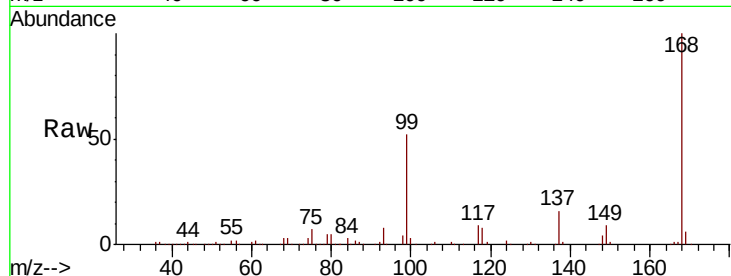
SP-1-1

Tot Ion:168 Resp: 292511

Ion Ratio Lower Upper

168 100

99 51.5 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

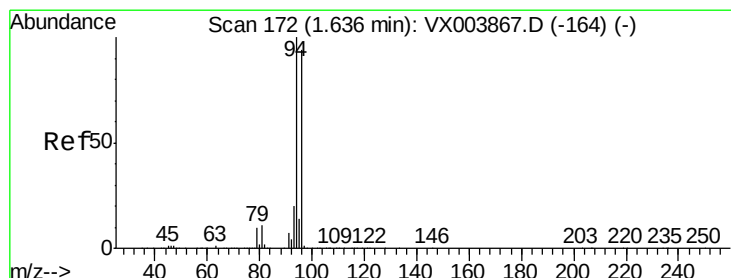
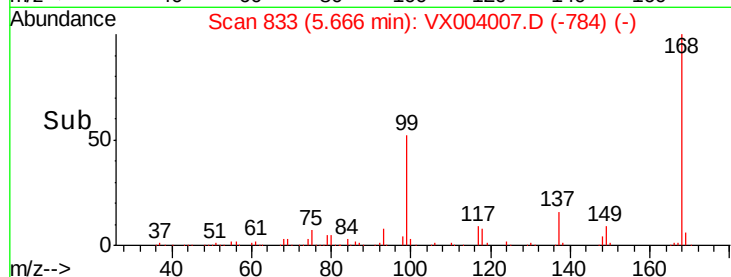
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.23 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004007.D

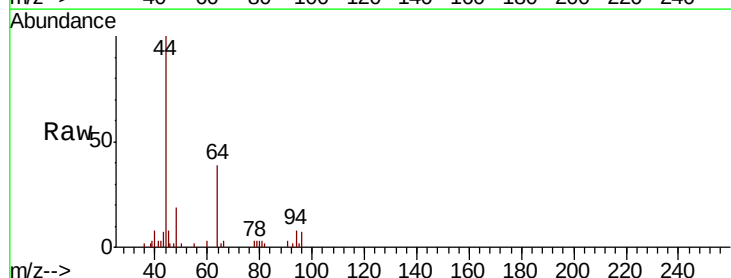
Acq: 13 Aug 2018 18:21

Tgt Ion: 94 Resp: 586

Ion Ratio Lower Upper

94 100

96 88.5 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

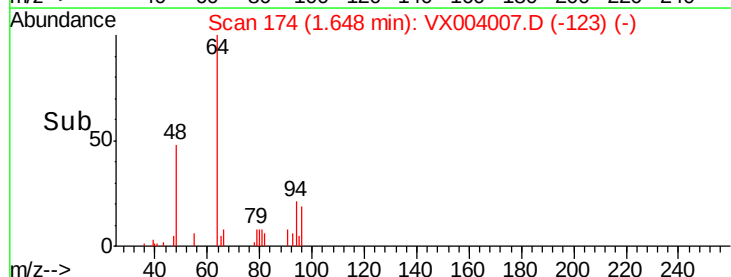
300

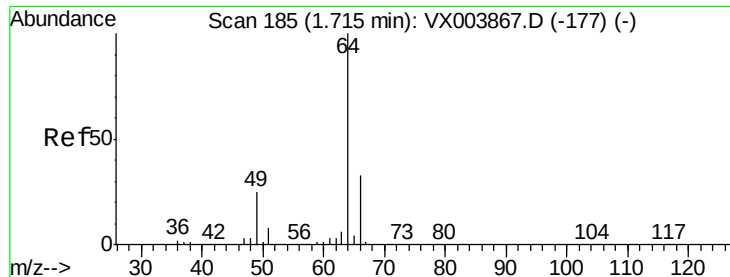
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 1.71 ug/l

RT: 1.65 min Scan# 174

Delta R.T. -0.07 min

Lab File: VX004007.D

Acq: 13 Aug 2018 18:21

Instrument :

MSVOA_X

ClientSampled :

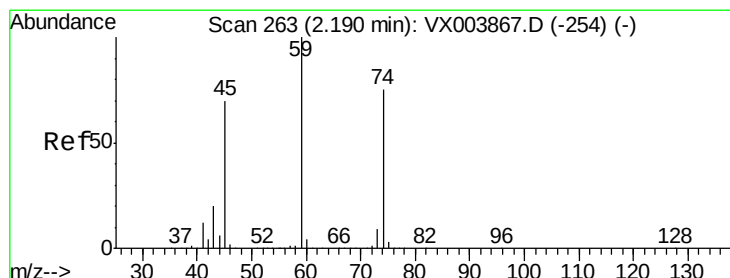
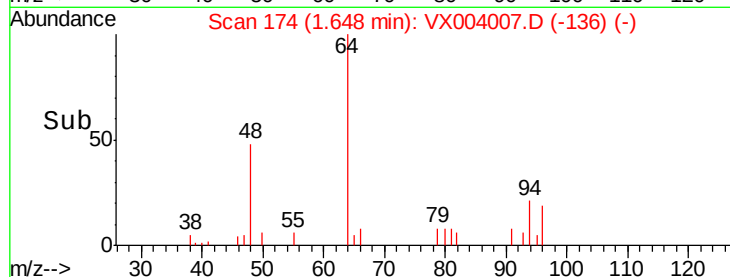
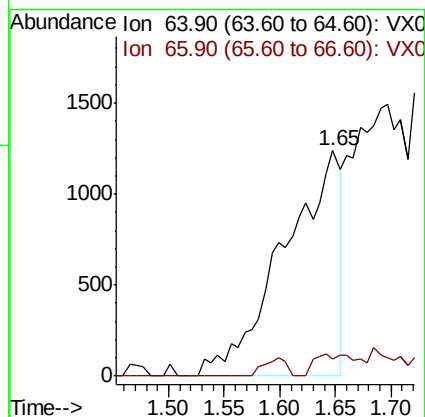
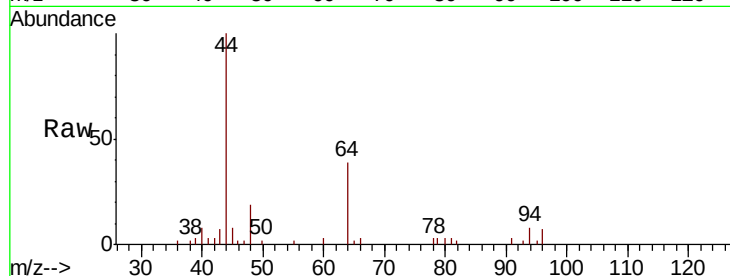
SP-1-1

Tot Ion: 64 Resp: 4391

Ion Ratio Lower Upper

64 100

66 7.7 26.5 39.7#



#8

Diethyl Ether

Concen: 0.25 ug/l

RT: 2.18 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX004007.D

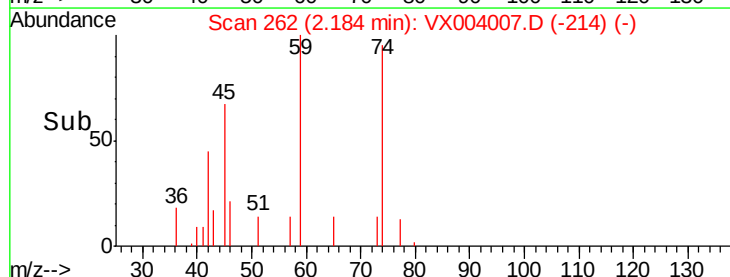
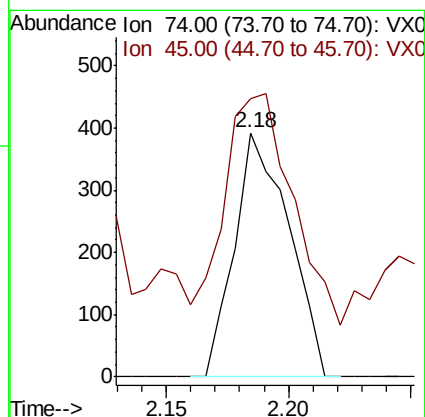
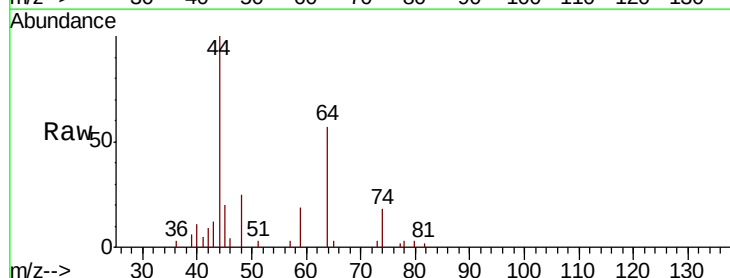
Acq: 13 Aug 2018 18:21

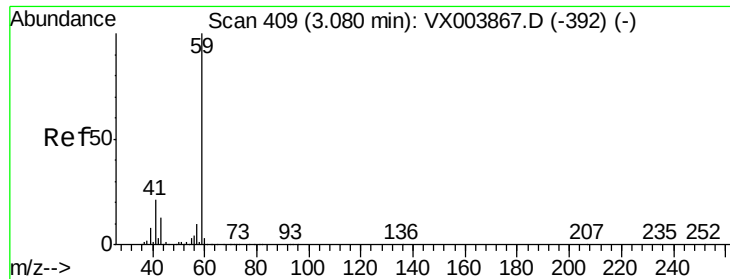
Tgt Ion: 74 Resp: 608

Ion Ratio Lower Upper

74 100

45 116.6 48.3 144.9

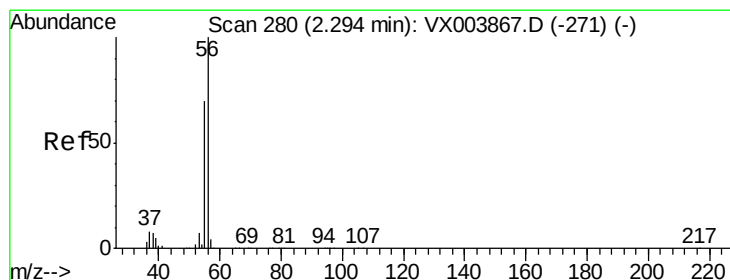
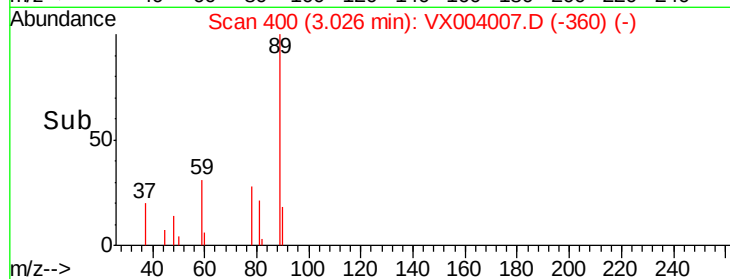
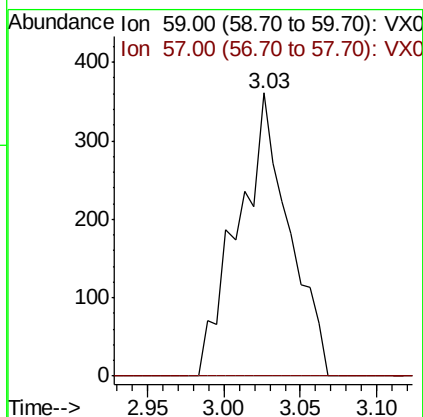
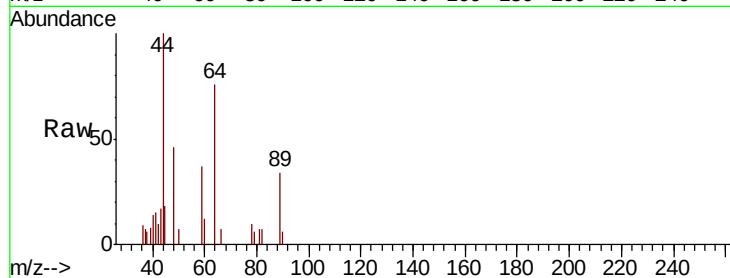




#11
Tert butyl alcohol
Concen: 0.90 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX004007.D
Acq: 13 Aug 2018 18:21

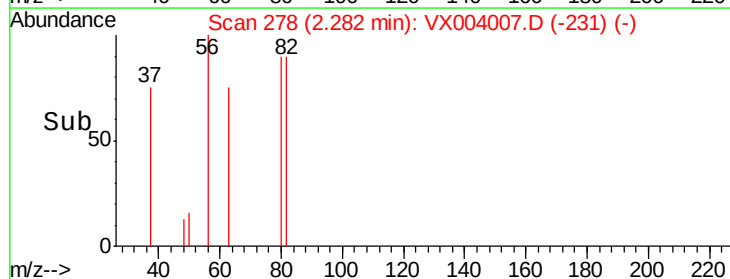
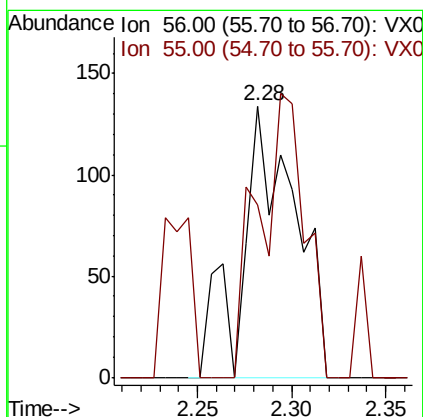
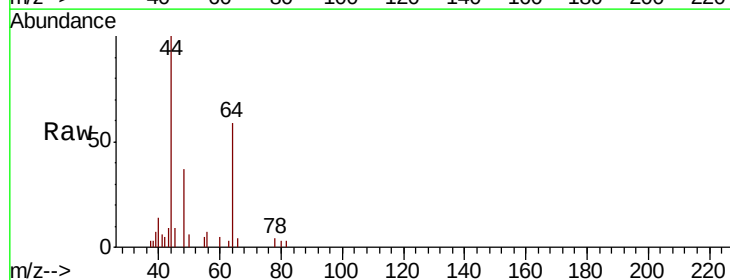
Instrument :
MSVOA_X
ClientSampled :
SP-1-1

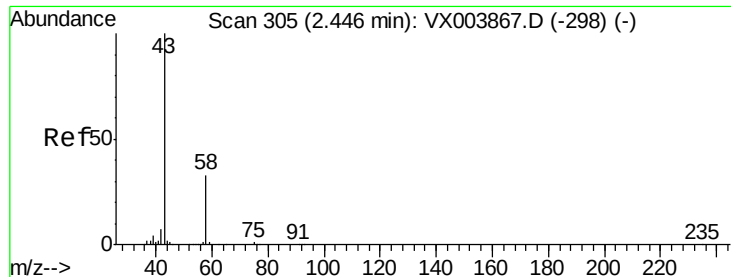
Tot Ion: 59 Resp: 834
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#13
Acrolein
Concen: 0.52 ug/l
RT: 2.28 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX004007.D
Acq: 13 Aug 2018 18:21

Tgt Ion: 56 Resp: 266
Ion Ratio Lower Upper
56 100
55 89.5 56.1 84.1#





#16

Acetone

Concen: 8.58 ug/l

RT: 2.43 min Scan# 303

Delta R.T. -0.01 min

Lab File: VX004007.D

Acq: 13 Aug 2018 18:21

Instrument :

MSVOA_X

ClientSampled :

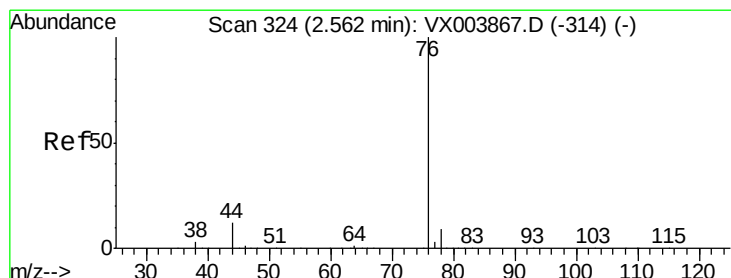
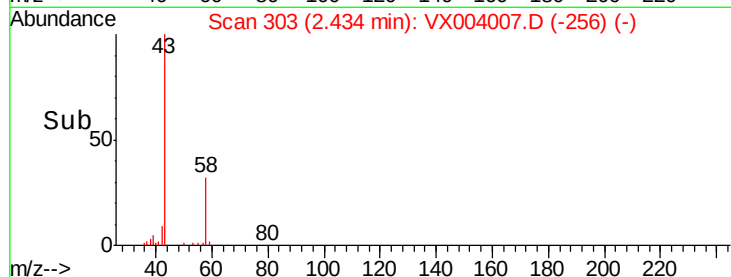
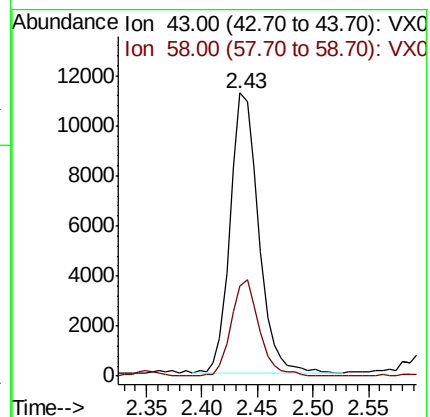
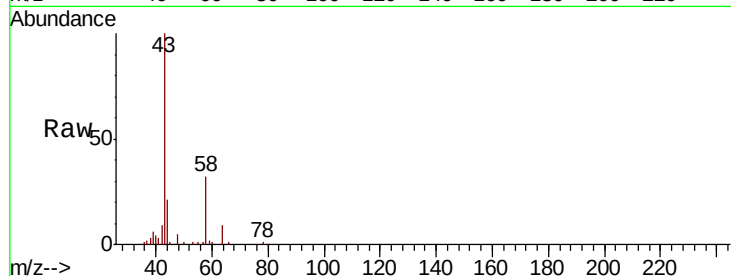
SP-1-1

Tot Ion: 43 Resp: 19795

Ion Ratio Lower Upper

43 100

58 32.4 26.4 39.6



#17

Carbon Disulfide

Concen: 0.23 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX004007.D

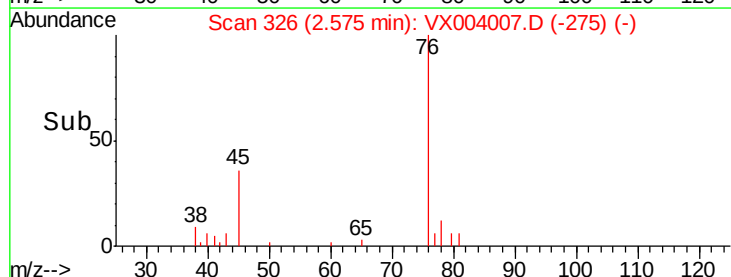
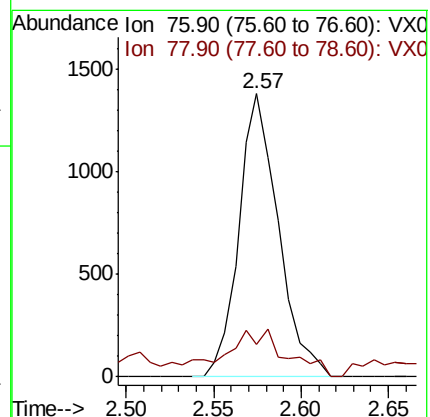
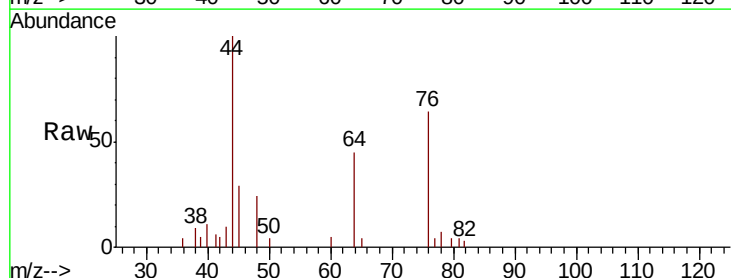
Acq: 13 Aug 2018 18:21

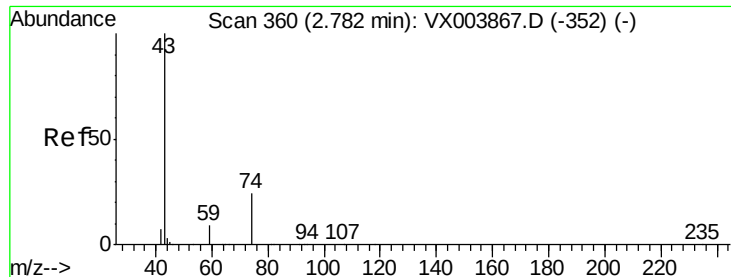
Tgt Ion: 76 Resp: 2165

Ion Ratio Lower Upper

76 100

78 11.7 7.5 11.3#

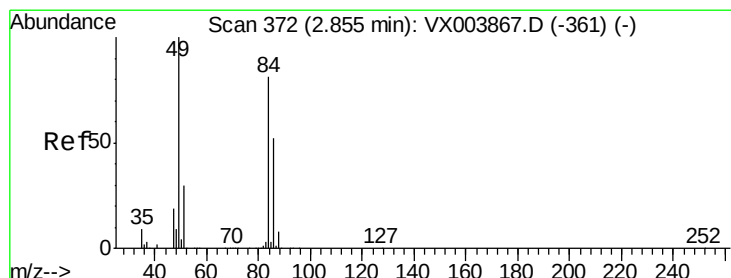
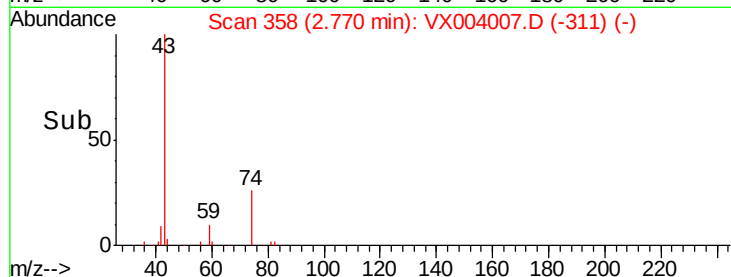
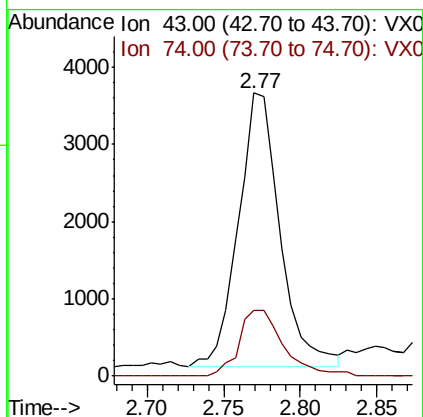
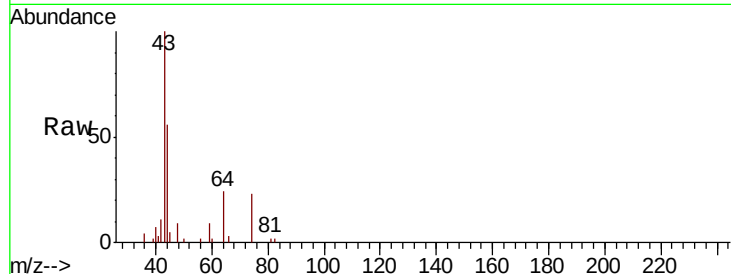




#18
Methvl Acetate
Concen: 1.33 ug/l
RT: 2.77 min Scan# 358
Delta R.T. -0.01 min
Lab File: VX004007.D
Acq: 13 Aug 2018 18:21

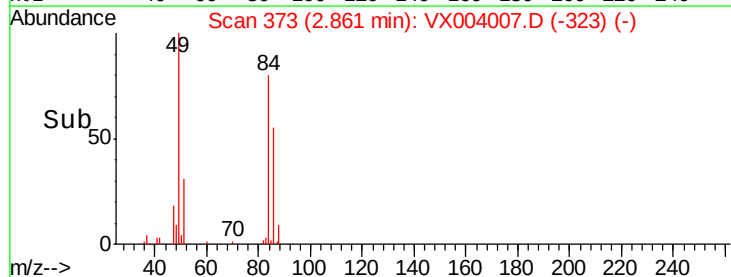
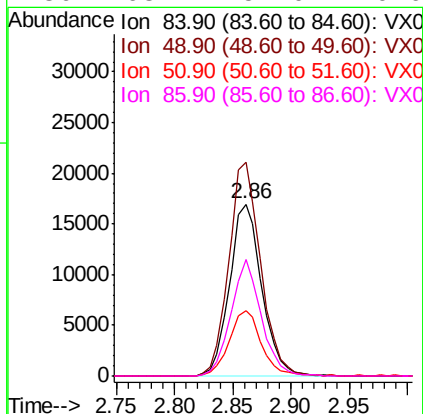
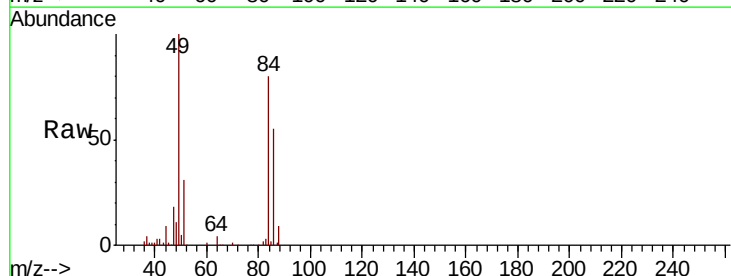
Instrument :
MSVOA_X
ClientSampleId :
SP-1-1

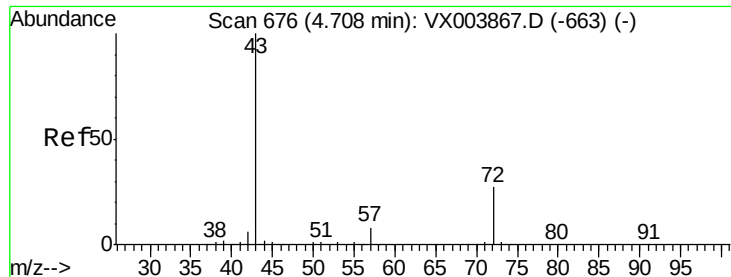
Tot Ion: 43 Resp: 6697
Ion Ratio Lower Upper
43 100
74 26.0 18.9 28.3



#20
Methylene Chloride
Concen: 5.83 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX004007.D
Acq: 13 Aug 2018 18:21

Tgt Ion: 84 Resp: 32622
Ion Ratio Lower Upper
84 100
49 124.5 98.9 148.3
51 38.4 29.9 44.9
86 68.2 51.0 76.6





#25

2-Butanone

Concen: 1.31 ug/l

RT: 4.69 min Scan# 673

Delta R.T. -0.02 min

Lab File: VX004007.D

Acq: 13 Aug 2018 18:21

Instrument :

MSVOA_X

ClientSampled :

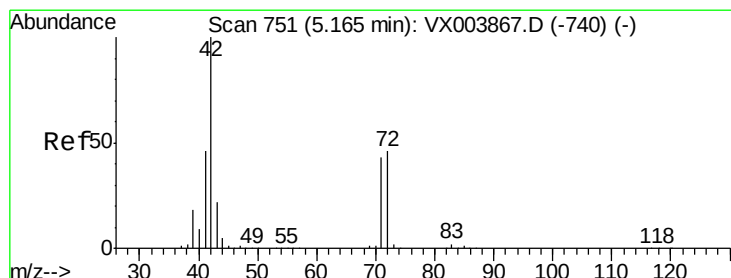
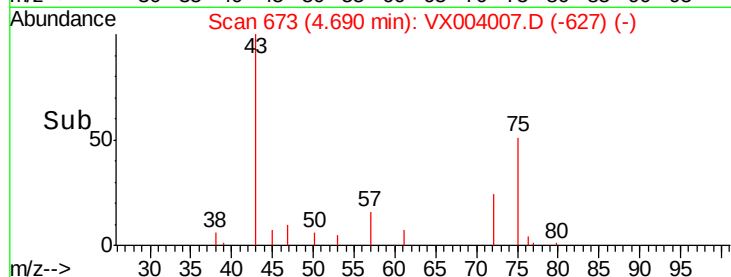
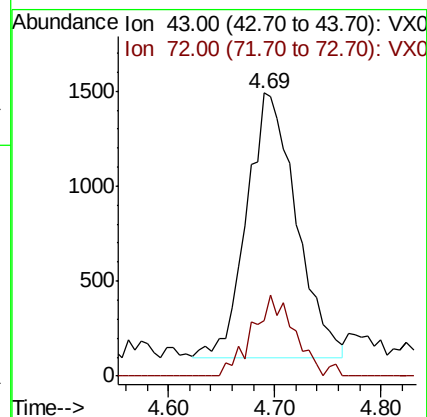
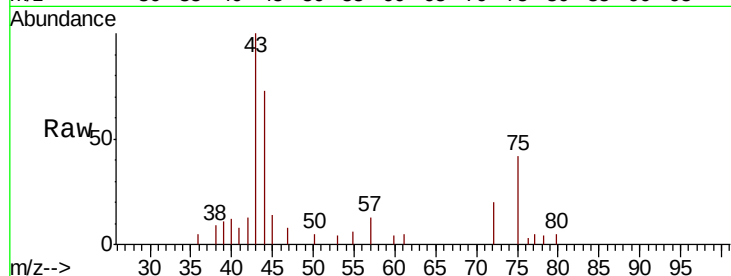
SP-1-1

Tot Ion: 43 Resp: 4544

Ion Ratio Lower Upper

43 100

72 21.2 21.4 32.0#



#29

Tetrahydrofuran

Concen: 1.22 ug/l

RT: 5.15 min Scan# 749

Delta R.T. -0.01 min

Lab File: VX004007.D

Acq: 13 Aug 2018 18:21

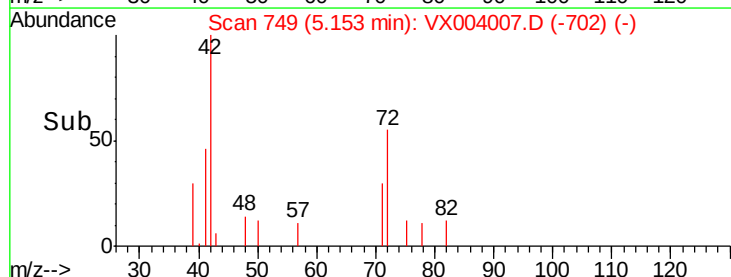
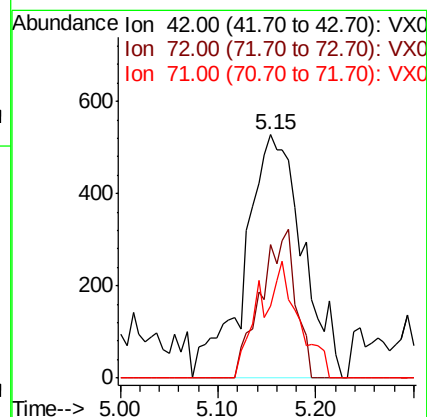
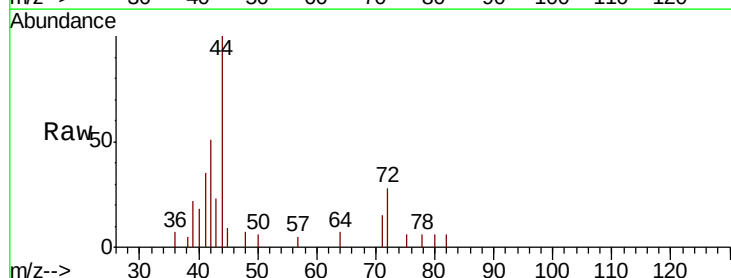
Tgt Ion: 42 Resp: 2170

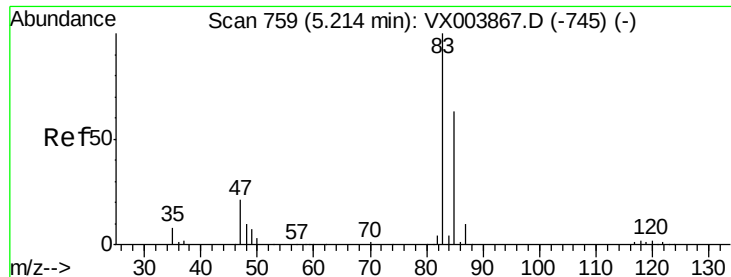
Ion Ratio Lower Upper

42 100

72 36.4 37.7 56.5#

71 22.6 35.0 52.6#

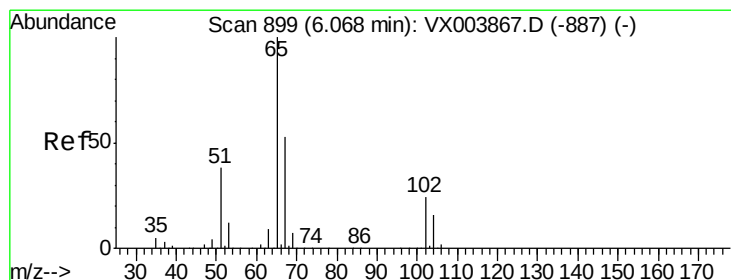
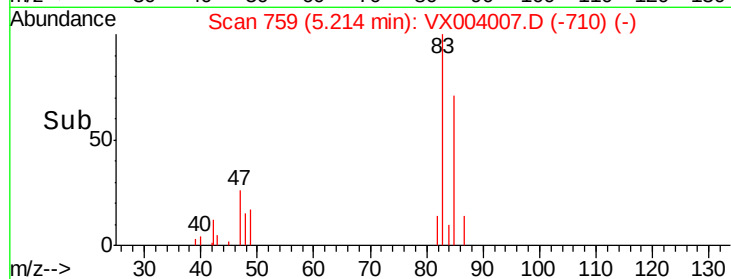
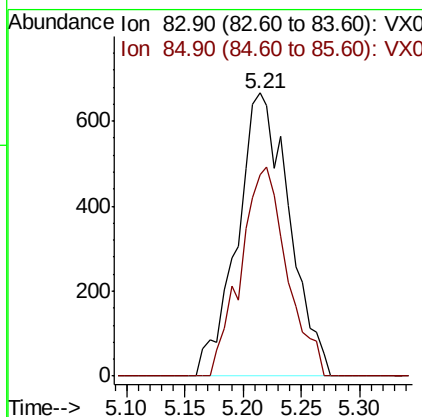
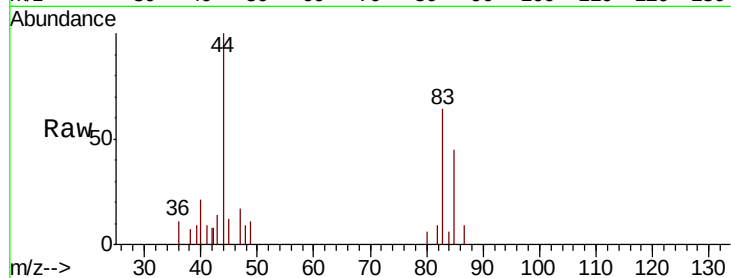




#30
Chloroform
Concen: 0.33 ug/l
RT: 5.21 min Scan# 759
Delta R.T. 0.00 min
Lab File: VX004007.D
Acq: 13 Aug 2018 18:21

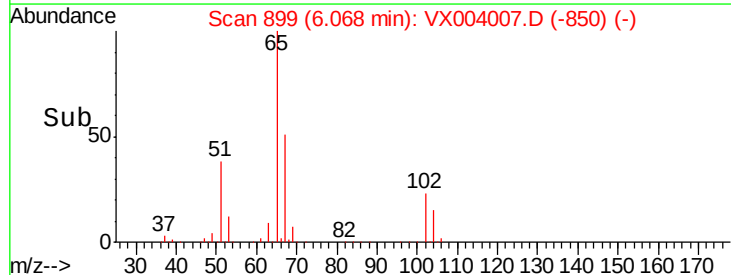
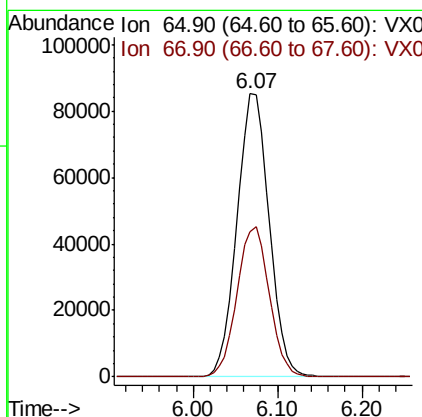
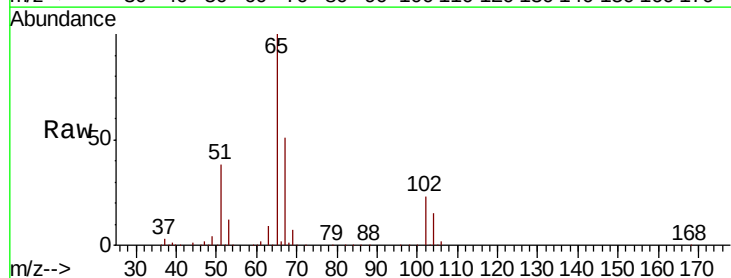
Instrument :
MSVOA_X
ClientSampleId :
SP-1-1

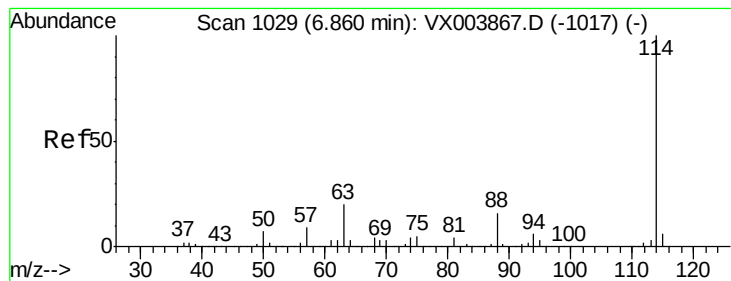
Tot Ion: 83 Resp: 2065
Ion Ratio Lower Upper
83 100
85 71.0 50.7 76.1



#33
1,2-Dichloroethane-d4
Concen: 56.71 ug/l
RT: 6.07 min Scan# 899
Delta R.T. 0.00 min
Lab File: VX004007.D
Acq: 13 Aug 2018 18:21

Tgt Ion: 65 Resp: 219885
Ion Ratio Lower Upper
65 100
67 53.3 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VX004007.D

Acq: 13 Aug 2018 18:21

Instrument :

MSVOA_X

ClientSampled :

SP-1-1

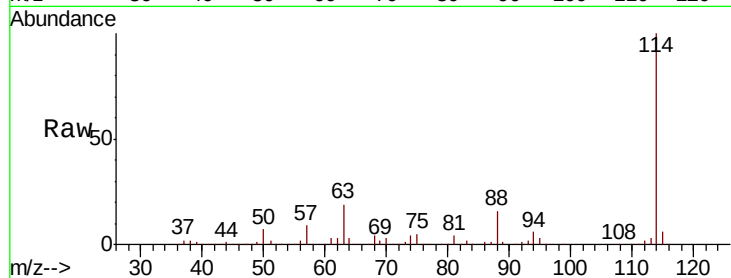
Tot Ion:114 Resp: 491627

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.0

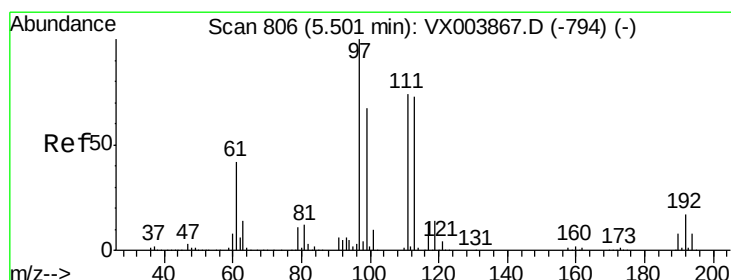
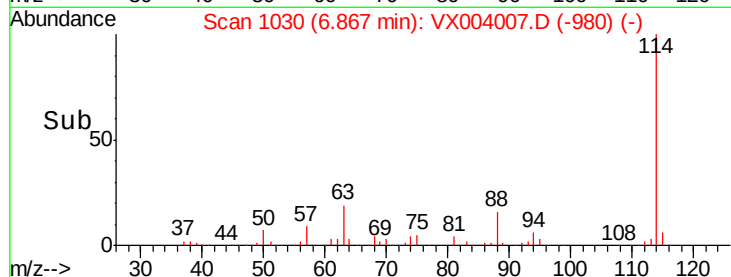
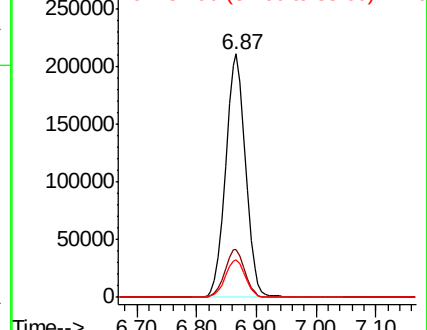
88 15.5 0.0 32.0



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: 47.84 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004007.D

Acq: 13 Aug 2018 18:21

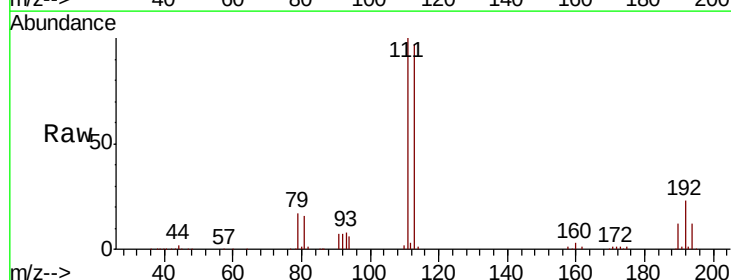
Tgt Ion:113 Resp: 178166

Ion Ratio Lower Upper

113 100

111 102.0 82.0 123.0

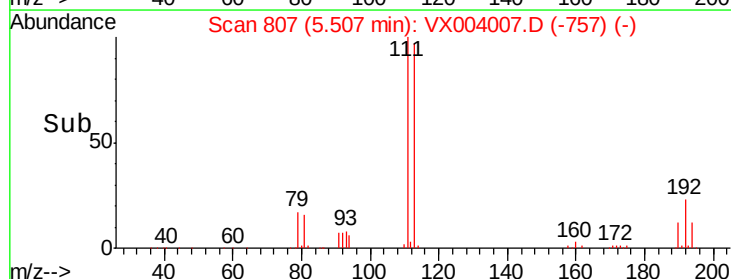
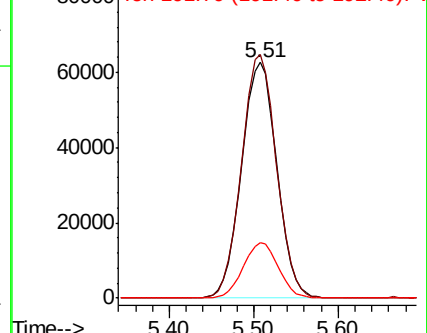
192 23.2 19.0 28.4

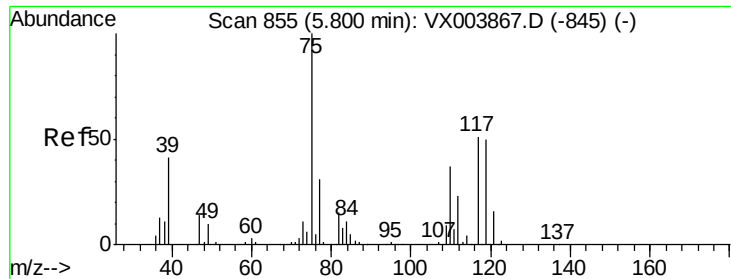


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

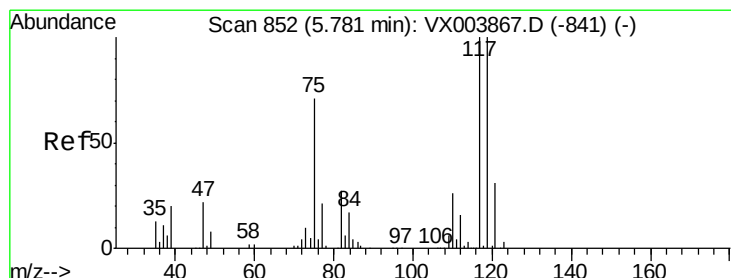
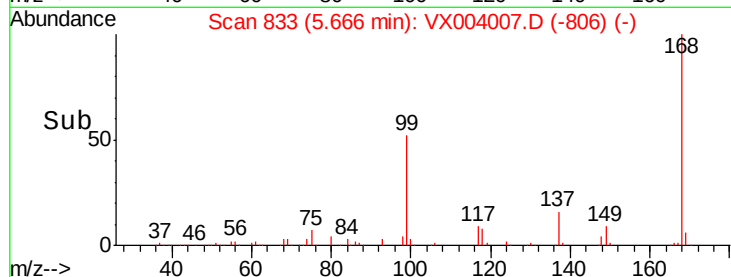
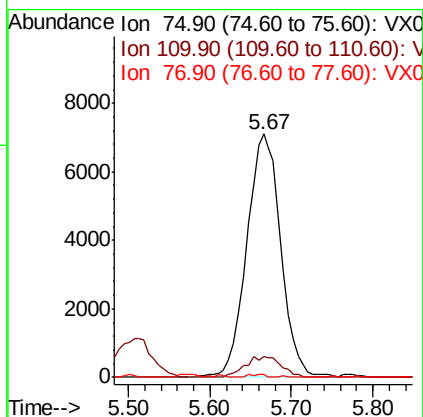
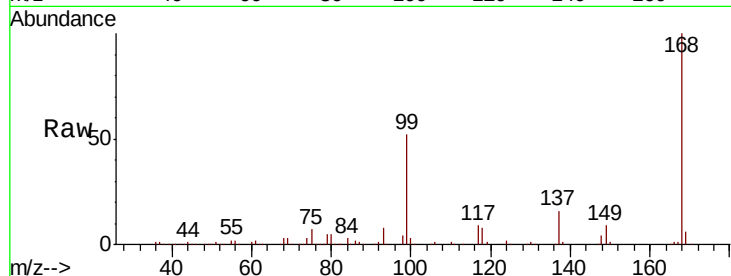




#36
 1,1-Dichloropropene
 Concen: 3.74 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX004007.D
 Acq: 13 Aug 2018 18:21

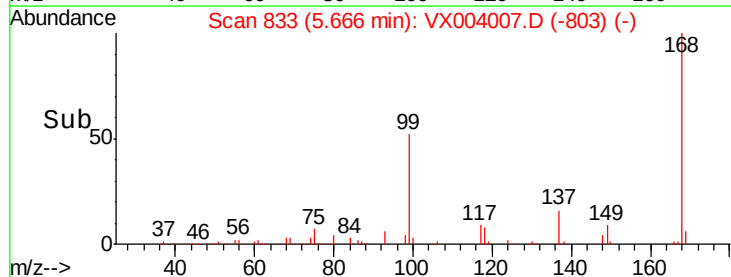
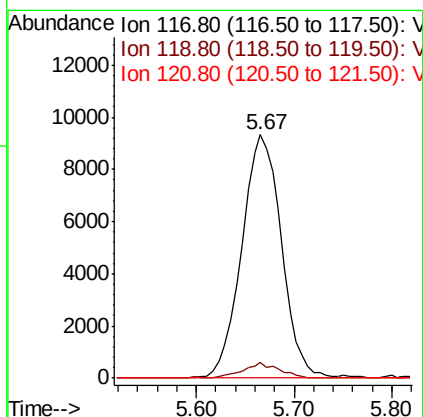
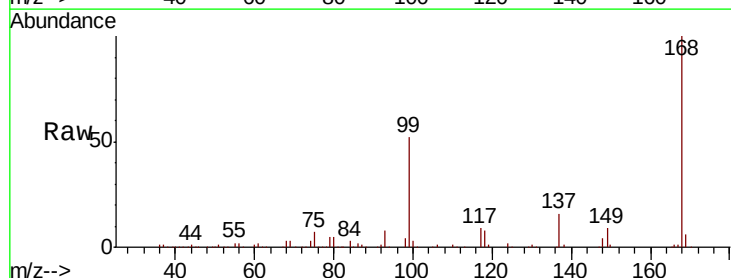
Instrument :
 MSVOA_X
 ClientSampleId :
 SP-1-1

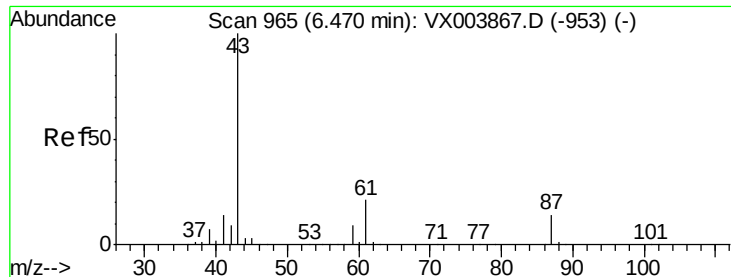
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.2	54.6#
77	0.5	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.01 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX004007.D
 Acq: 13 Aug 2018 18:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.4	79.5	119.3#
121	0.0	25.0	37.4#





#43

Isopropyl Acetate

Concen: 20.17 ug/l

RT: 6.46 min Scan# 964

Delta R.T. -0.01 min

Lab File: VX004007.D

Acq: 13 Aug 2018 18:21

Instrument :

MSVOA_X

ClientSampleId :

SP-1-1

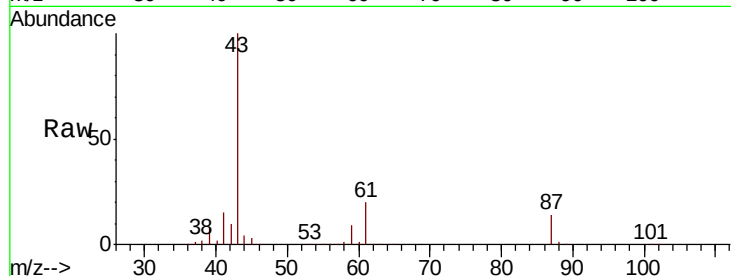
Tot Ion: 43 Resp: 183868

Ion Ratio Lower Upper

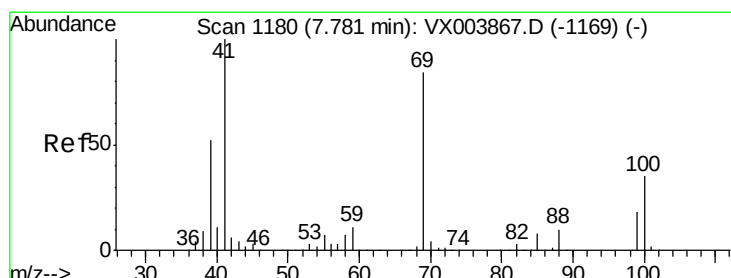
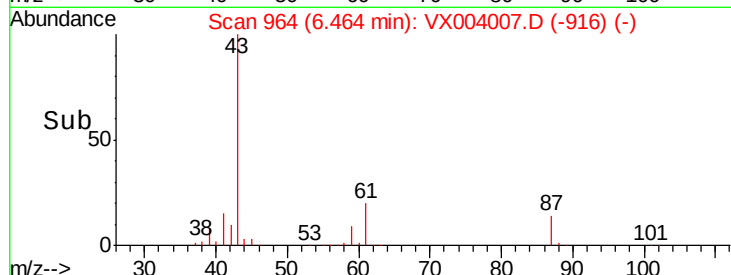
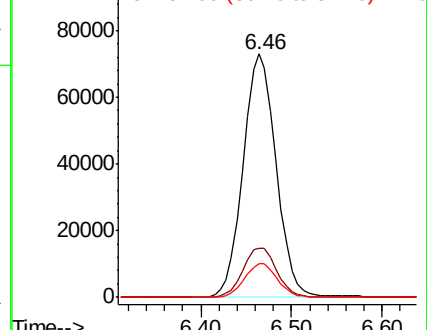
43 100

61 20.8 16.9 25.3

87 13.9 11.3 16.9



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: 4.50 ug/l

RT: 7.88 min Scan# 1197

Delta R.T. 0.10 min

Lab File: VX004007.D

Acq: 13 Aug 2018 18:21

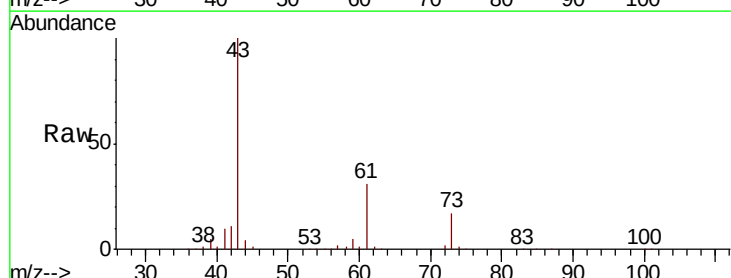
Tgt Ion: 41 Resp: 20834

Ion Ratio Lower Upper

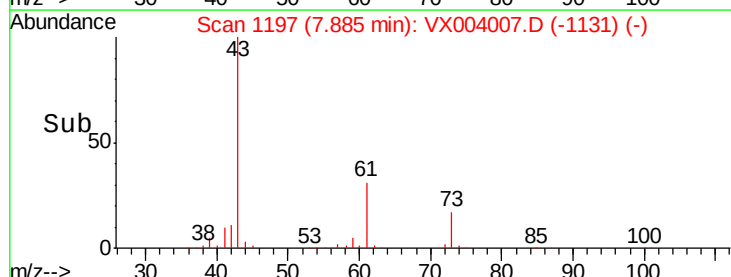
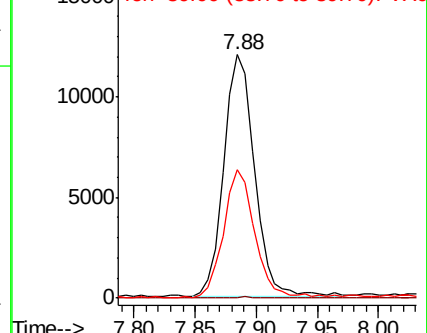
41 100

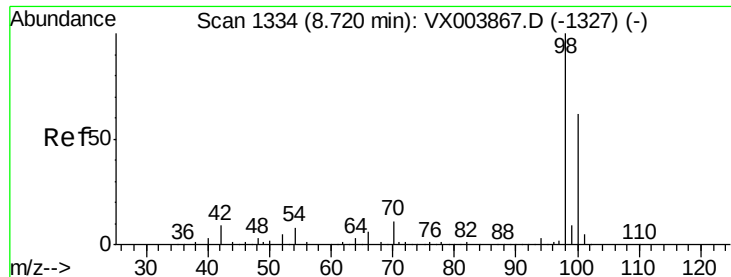
69 0.1 68.8 103.2#

39 55.8 42.3 63.5



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





#50

Toluene-d8

Concen: 47.55 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX004007.D

Acq: 13 Aug 2018 18:21

Instrument :

MSVOA_X

ClientSampled :

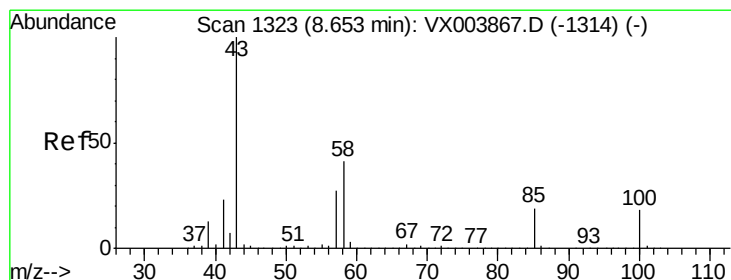
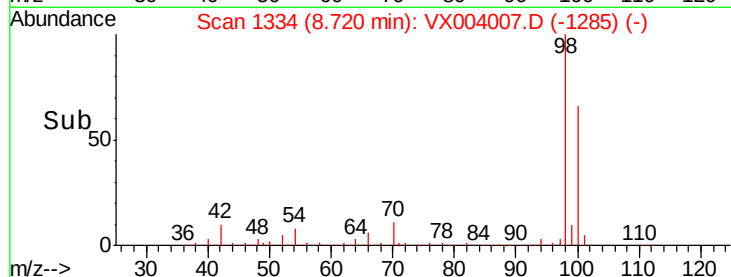
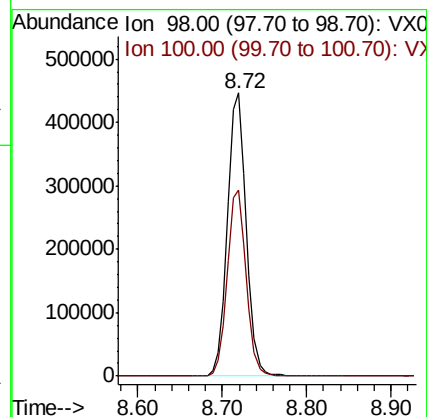
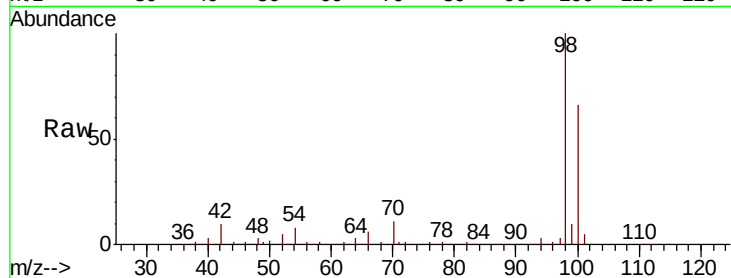
SP-1-1

Tot Ion: 98 Resp: 688681

Ion Ratio Lower Upper

98 100

100 66.0 53.3 79.9



#51

4-Methyl-2-Pentanone

Concen: 0.55 ug/l

RT: 8.62 min Scan# 1318

Delta R.T. -0.03 min

Lab File: VX004007.D

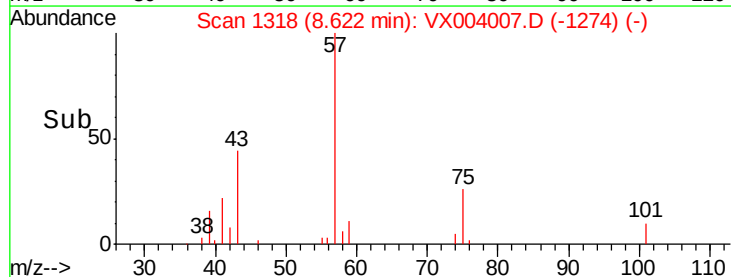
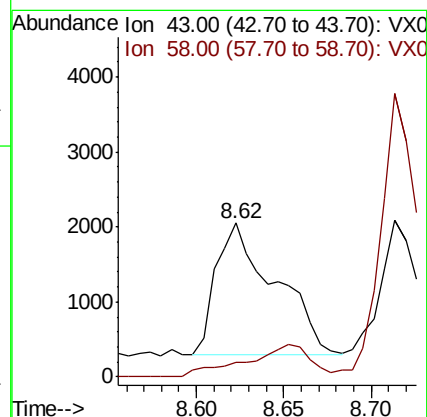
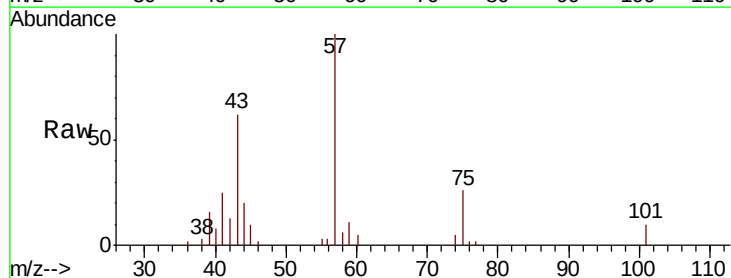
Acq: 13 Aug 2018 18:21

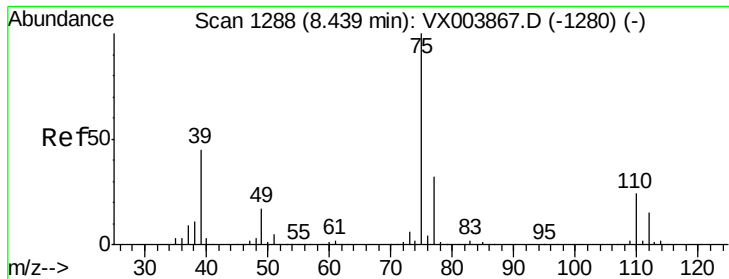
Tgt Ion: 43 Resp: 4182

Ion Ratio Lower Upper

43 100

58 0.0 33.0 49.6#





#54

cis-1,3-Dichloropropene

Concen: 0.23 ug/l

RT: 8.63 min Scan# 1319

Delta R.T. 0.19 min

Lab File: VX004007.D

Acq: 13 Aug 2018 18:21

Instrument :

MSVOA_X

ClientSampleId :

SP-1-1

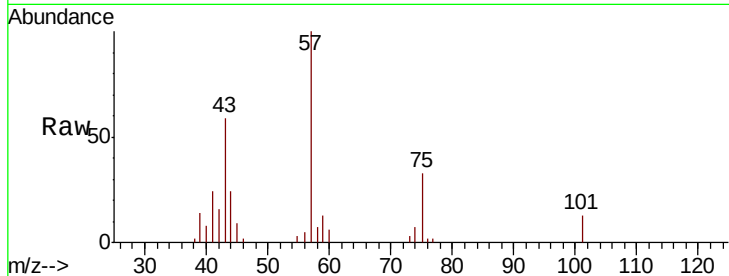
Tot Ion: 75 Resp: 1445

Ion Ratio Lower Upper

75 100

77 7.2 25.3 37.9#

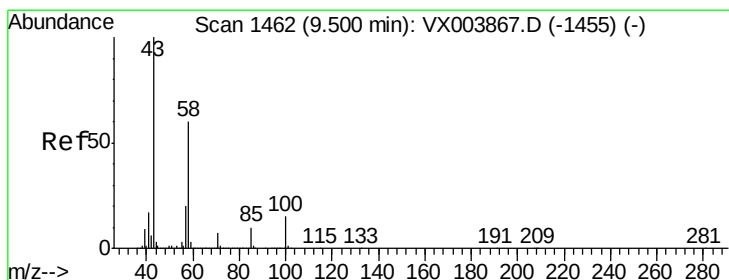
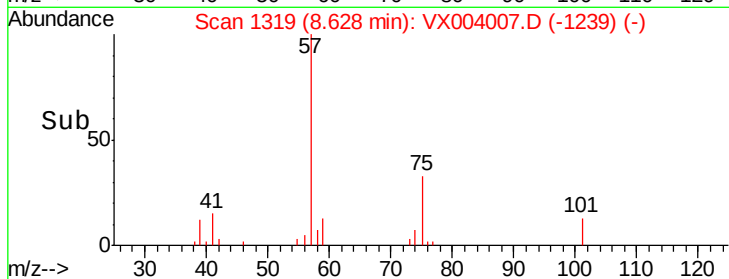
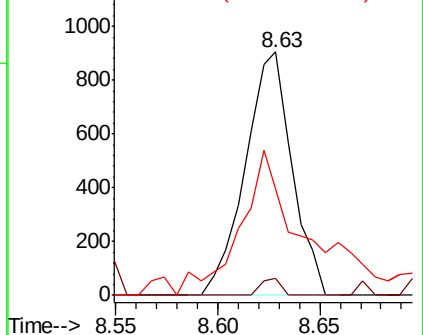
39 34.4 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 2.36 ug/l

RT: 9.55 min Scan# 1470

Delta R.T. 0.05 min

Lab File: VX004007.D

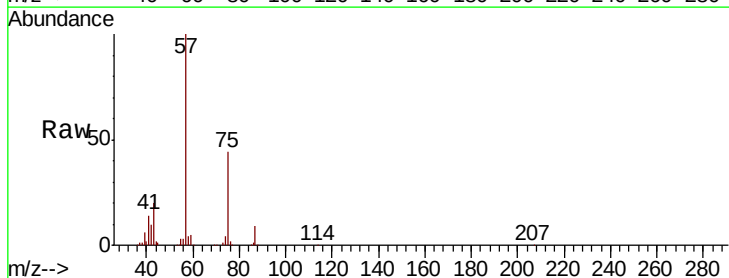
Acq: 13 Aug 2018 18:21

Tgt Ion: 43 Resp: 13325

Ion Ratio Lower Upper

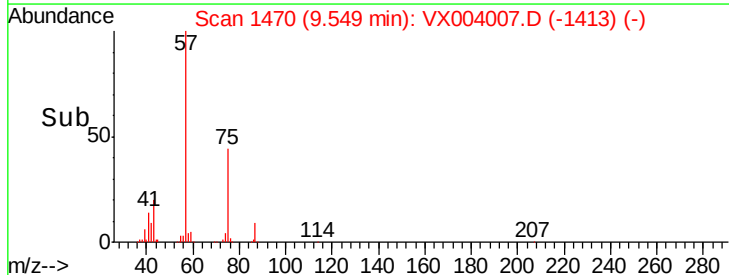
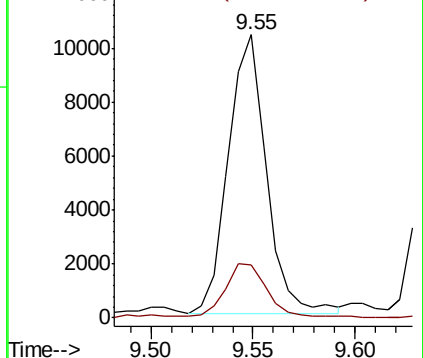
43 100

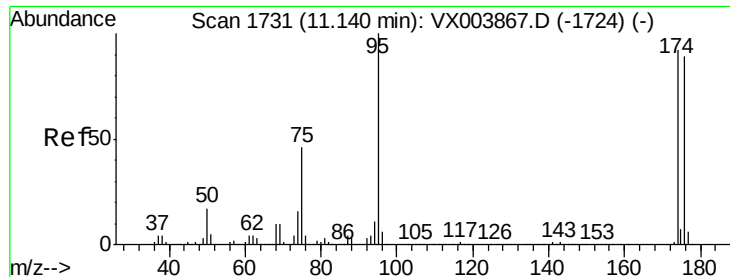
58 22.2 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

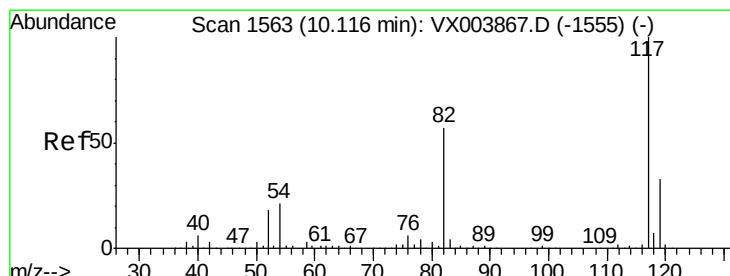
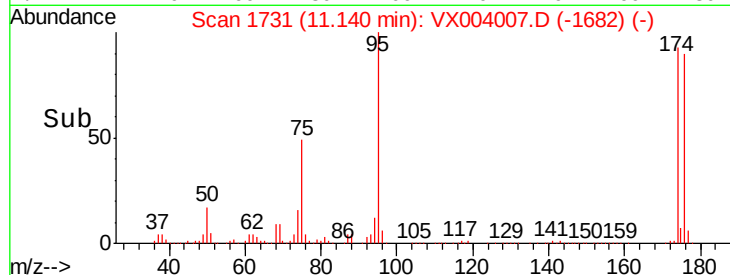
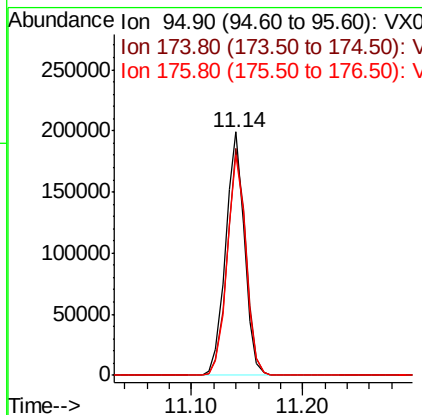
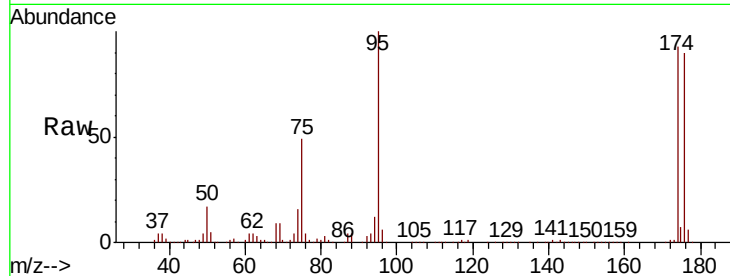




#62
 4-Bromofluorobenzene
 Concen: 49.55 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX004007.D
 Acq: 13 Aug 2018 18:21

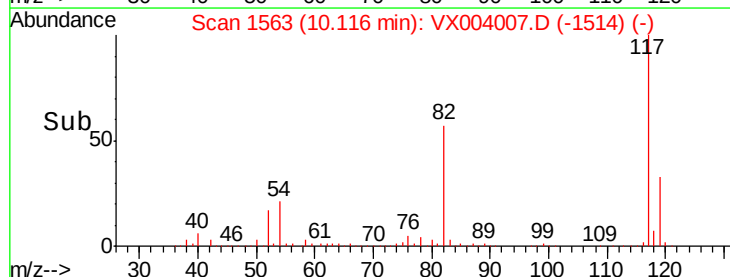
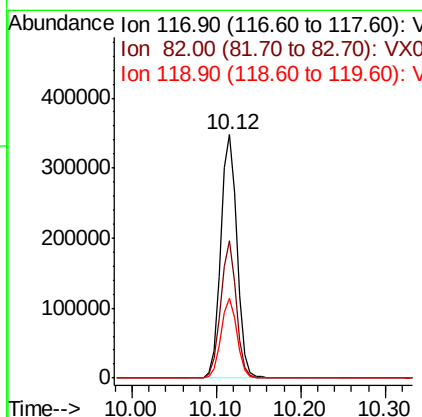
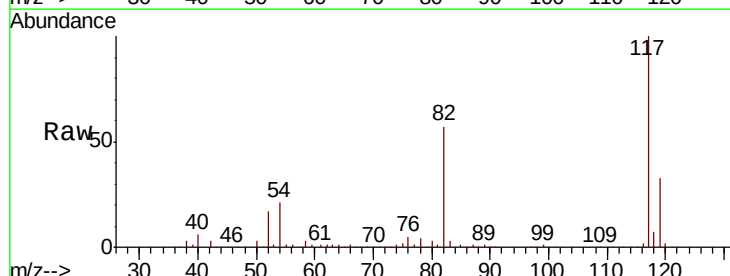
Instrument :
 MSVOA_X
 ClientSampled :
 SP-1-1

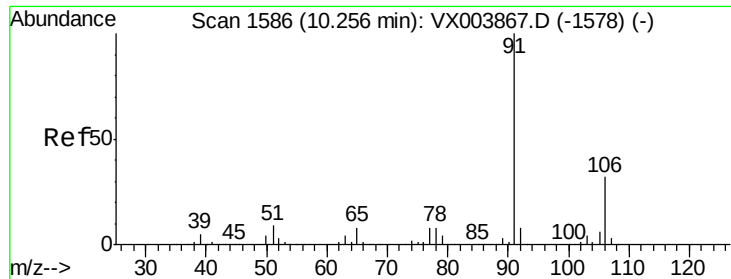
Tot Ion	95	Resp	232203
Ion	Ratio	Lower	Upper
95	100		
174	92.9	0.0	182.8
176	90.4	0.0	179.0



#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 10.12 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VX004007.D
 Acq: 13 Aug 2018 18:21

Tgt Ion	117	Resp	467346
Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.4	68.0
119	32.9	26.6	40.0

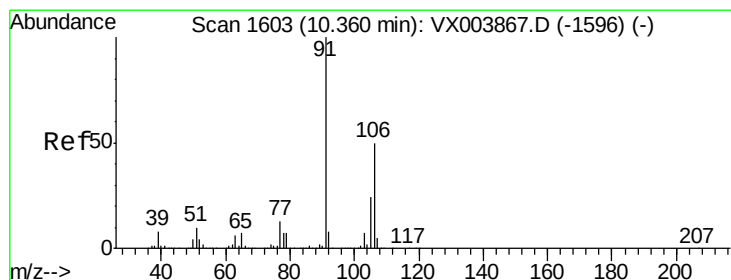
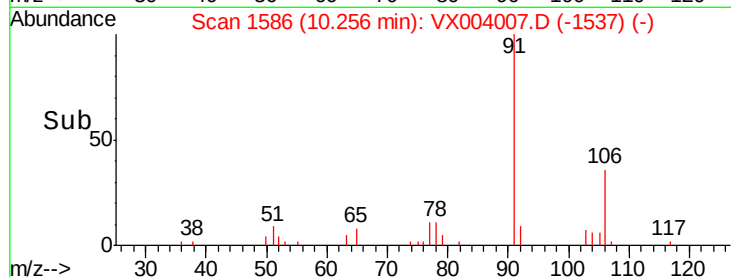
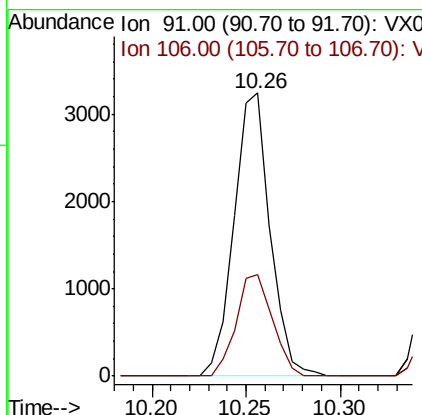
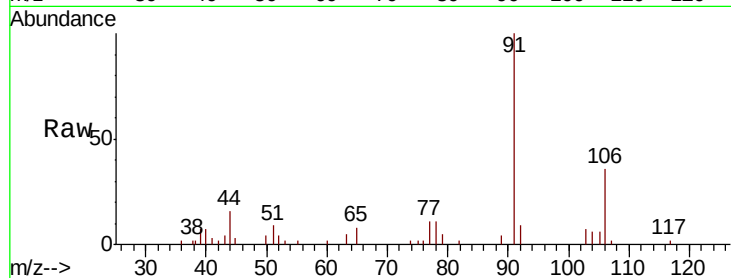




#67
Ethyl Benzene
Concen: 0.22 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX004007.D
Acq: 13 Aug 2018 18:21

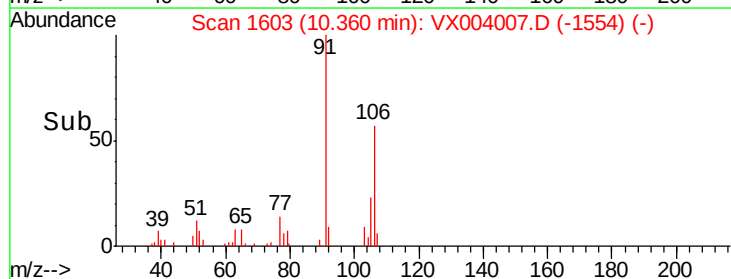
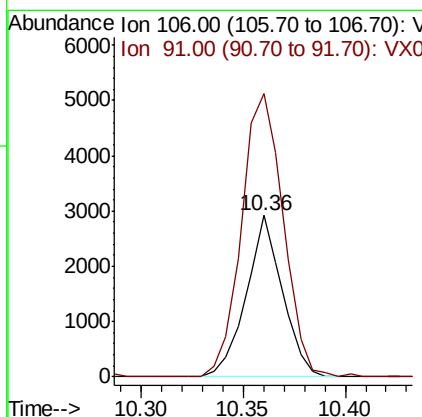
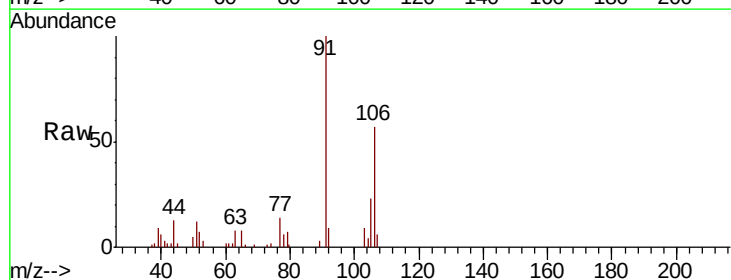
Instrument :
MSVOA_X
ClientSampled :
SP-1-1

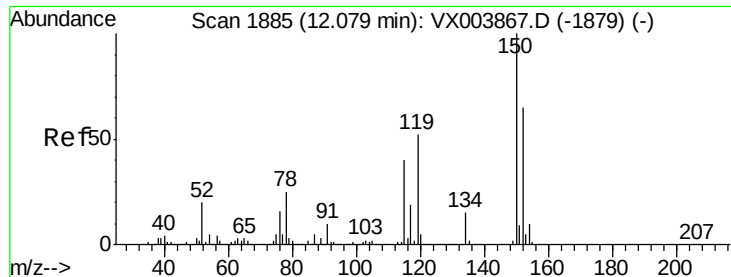
Tot Ion: 91 Resp: 4292
Ion Ratio Lower Upper
91 100
106 35.8 25.9 38.9



#68
m/p-Xylenes
Concen: 0.46 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VX004007.D
Acq: 13 Aug 2018 18:21

Tgt Ion: 106 Resp: 3589
Ion Ratio Lower Upper
106 100
91 202.7 162.3 243.5

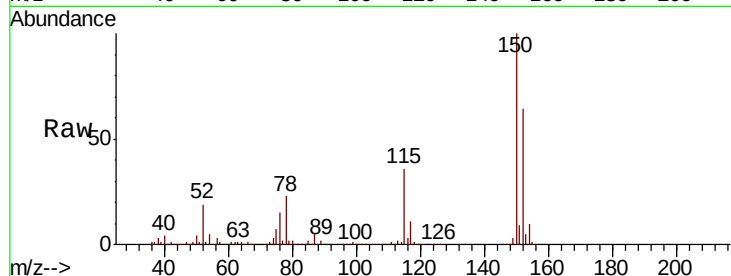




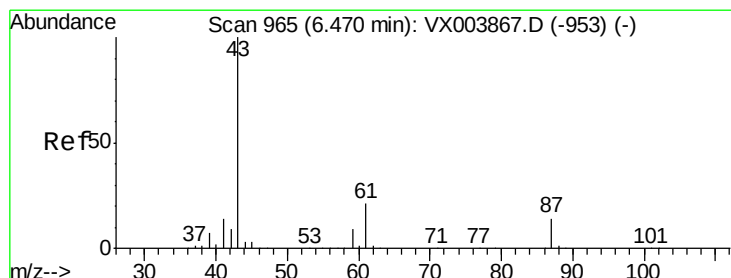
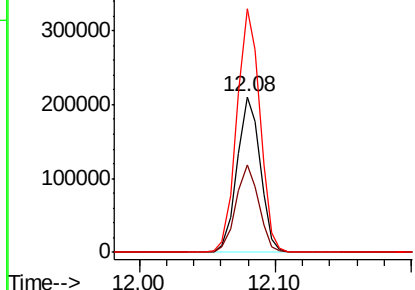
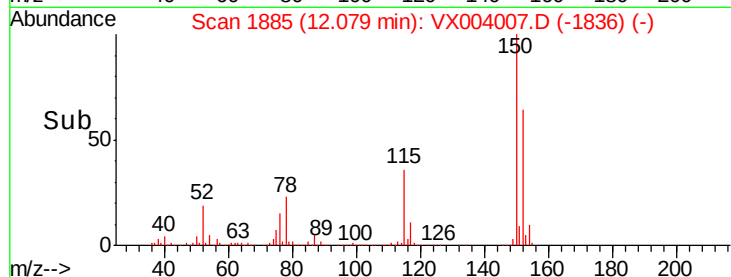
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.08 min Scan# 1885
 Delta R.T. 0.00 min
 Lab File: VX004007.D
 Acq: 13 Aug 2018 18:21

Instrument :
 MSVOA_X
 ClientSampled :
 SP-1-1

Tot Ion:152 Resp: 250163
 Ion Ratio Lower Upper
 152 100
 115 55.2 39.1 117.3
 150 156.1 0.0 349.2

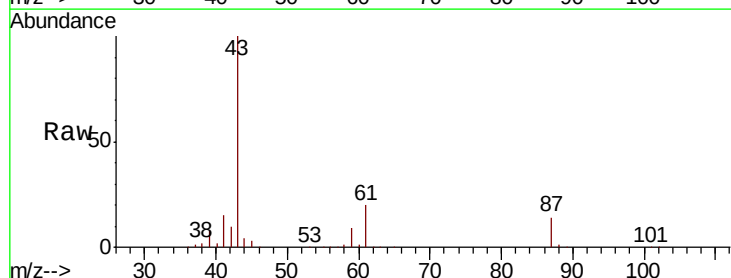


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

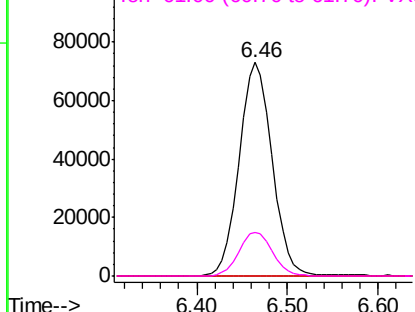
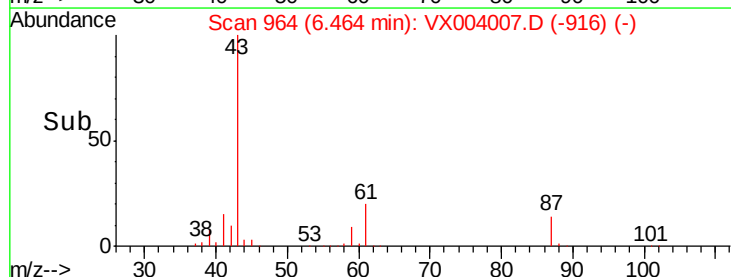


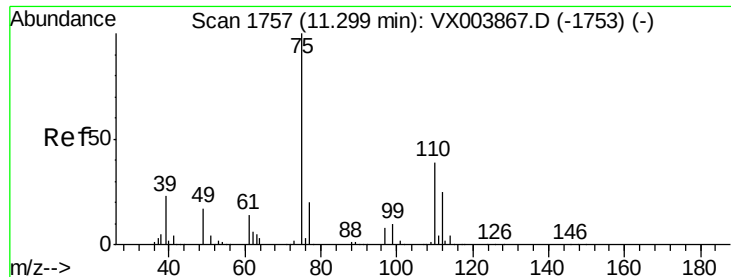
#74
 N-ethyl acetate
 Concen: 19.11 ug/l
 RT: 6.46 min Scan# 964
 Delta R.T. -0.01 min
 Lab File: VX004007.D
 Acq: 13 Aug 2018 18:21

Tgt Ion: 43 Resp: 183868
 Ion Ratio Lower Upper
 43 100
 70 0.0 0.0 0.0
 55 0.1 0.1 0.1#
 61 20.8 16.9 25.3



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: 21.29 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004007.D

Acq: 13 Aug 2018 18:21

Instrument :

MSVOA_X

ClientSampled :

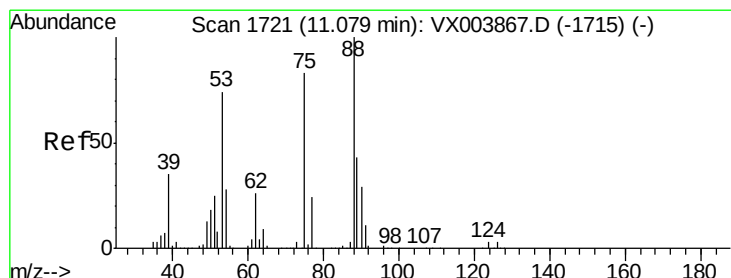
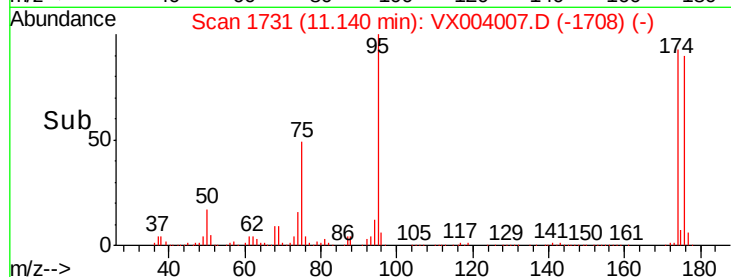
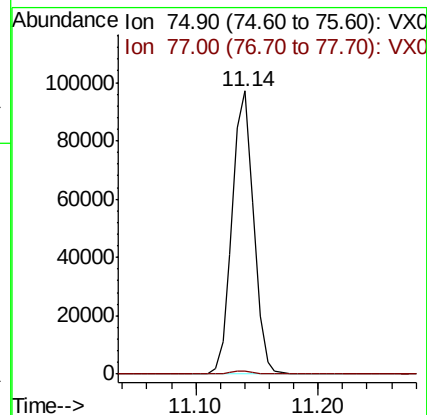
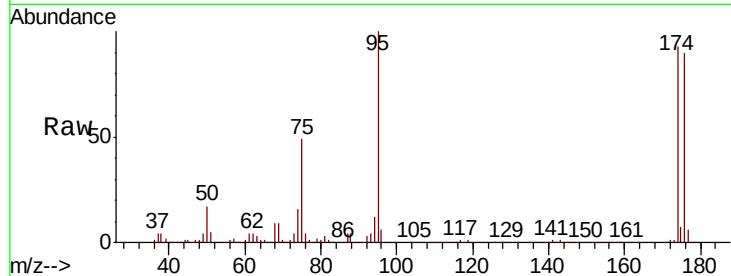
SP-1-1

Tot Ion: 75 Resp: 117622

Ion Ratio Lower Upper

75 100

77 1.2 20.8 62.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.88 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004007.D

Acq: 13 Aug 2018 18:21

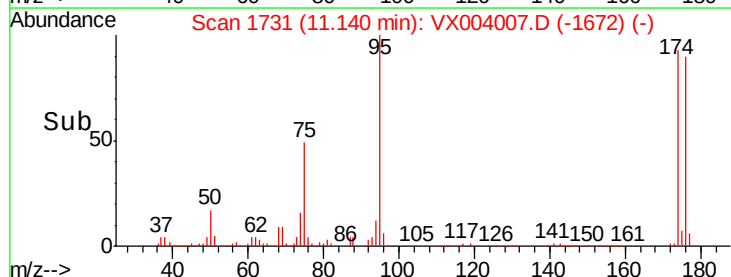
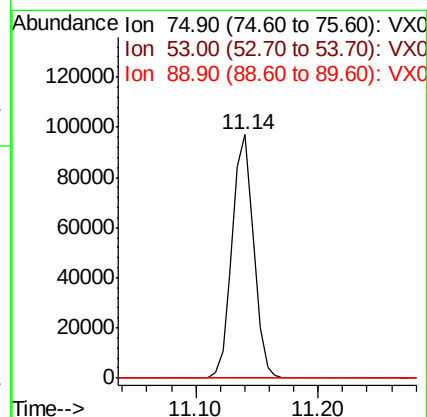
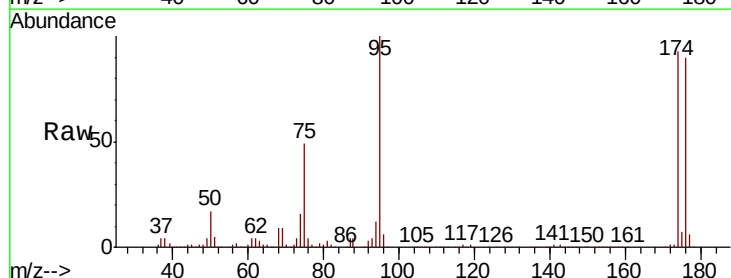
Tgt Ion: 75 Resp: 117622

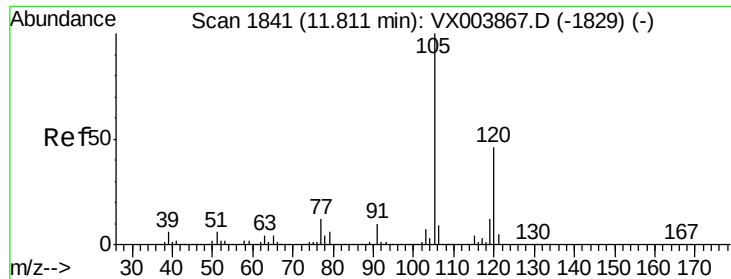
Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

89 0.0 37.8 56.8#

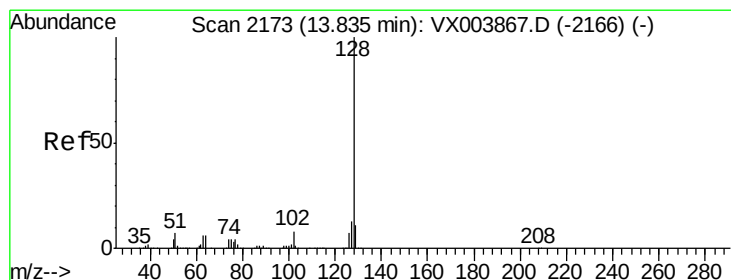
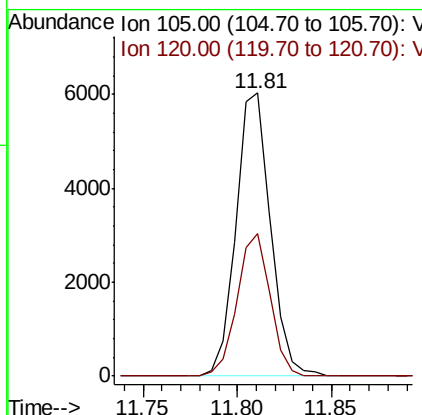
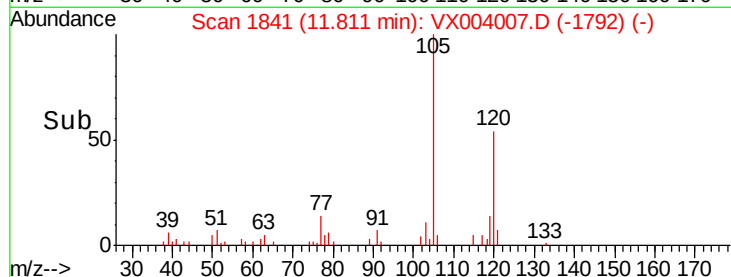
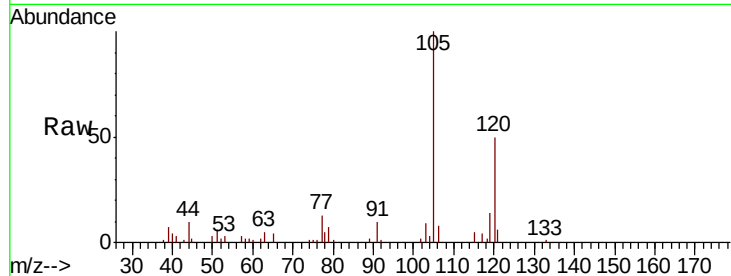




#84
 1,2,4-Trimethylbenzene
 Concen: 0.50 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX004007.D
 Acq: 13 Aug 2018 18:21

Instrument :
 MSVOA_X
 ClientSampleId :
 SP-1-1

Tot Ion:105 Resp: 7627
 Ion Ratio Lower Upper
 105 100
 120 48.2 23.1 69.2



#95
 Naphthalene
 Concen: 3.35 ug/l
 RT: 13.83 min Scan# 2173
 Delta R.T. 0.00 min
 Lab File: VX004007.D
 Acq: 13 Aug 2018 18:21

Tgt Ion:128 Resp: 62456
 Ion Ratio Lower Upper
 128 100
 127 13.4 10.2 15.2
 129 11.4 8.8 13.2

