

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012619\
 Data File : VX007239.D
 Acq On : 25 Jan 2019 19:48
 Operator : JC/SP
 Sample : PB116609ZHE#05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 28 00:17:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	543633	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	847008	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	821754	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	400025	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	294754	51.88	ug/l	0.00
Spiked Amount			Recovery	=	103.76%	
35) Dibromofluoromethane	5.51	113	263916	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
50) Toluene-d8	8.71	98	1041565	52.46	ug/l	0.00
Spiked Amount			Recovery	=	104.92%	
62) 4-Bromofluorobenzene	11.13	95	367640	53.11	ug/l	0.00
Spiked Amount			Recovery	=	106.22%	

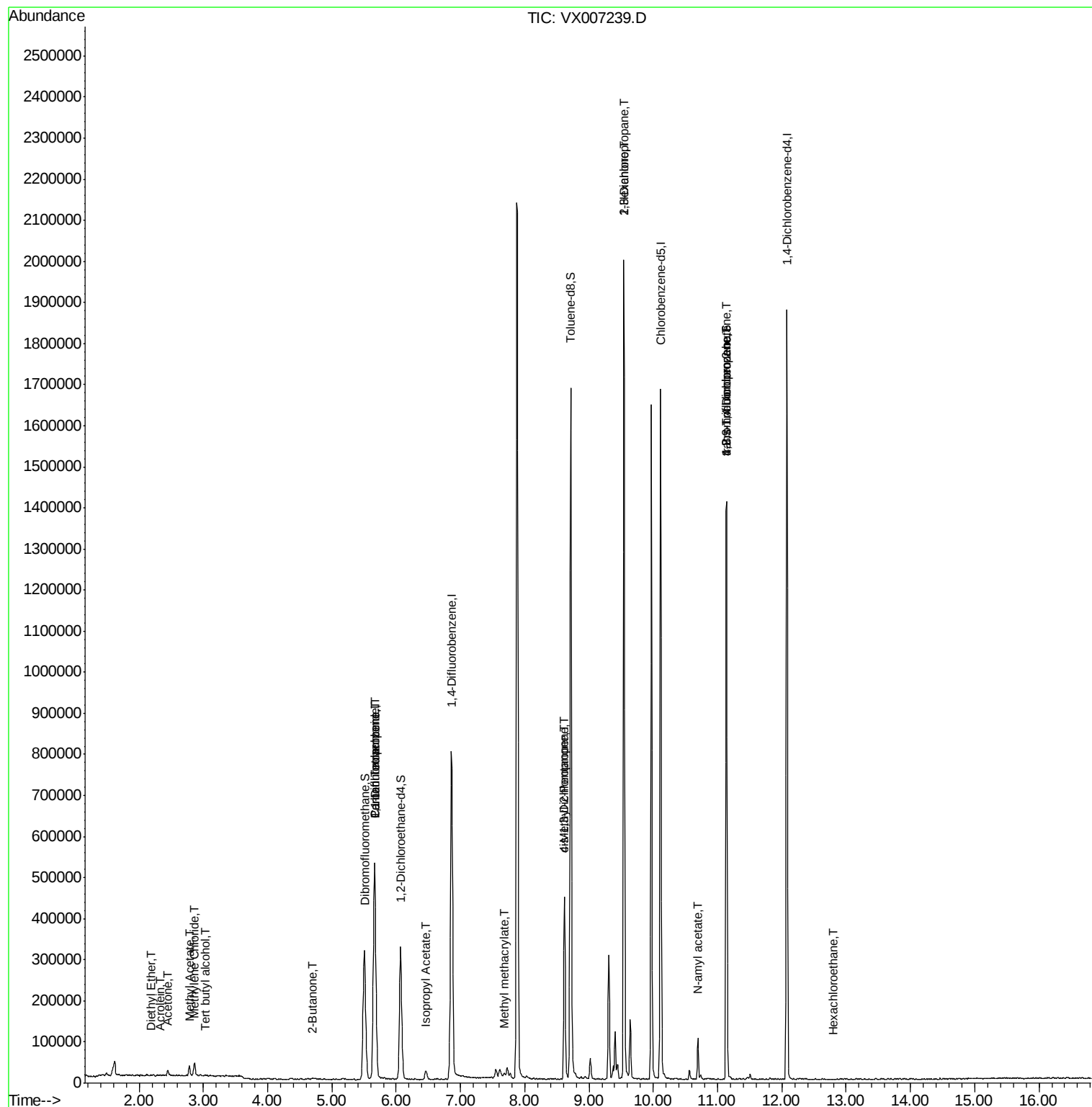
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.18	74	733	0.204	ug/l	77
11) Tert butyl alcohol	3.03	59	1059	0.790	ug/l #	75
13) Acrolein	2.32	56	198	3.422	ug/l #	49
16) Acetone	2.45	43	14537	5.176	ug/l	93
18) Methyl Acetate	2.78	43	31654	3.892	ug/l	97
20) Methylene Chloride	2.86	84	14716	2.214	ug/l	93
25) 2-Butanone	4.70	43	5188	1.291	ug/l	95
36) 1,1-Dichloropropene	5.66	75	34957	4.747	ug/l #	48
38) Carbon Tetrachloride	5.66	117	49583	6.692	ug/l #	15
43) Isopropyl Acetate	6.46	43	28241	2.268	ug/l	98
48) Methyl methacrylate	7.68	41	14435	2.257	ug/l #	12
49) 1,4-Dioxane	7.75	88	218	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	142827	17.846	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	71422	8.631	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	16885	1.783	ug/l #	47
59) 2-Hexanone	9.54	43	221303	36.286	ug/l #	52
74) N-amyl acetate	10.69	43	23855	2.100	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	176934	21.827	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	176934	64.669	ug/l #	10
90) Hexachloroethane	12.80	117	21	2.913	ug/l	90

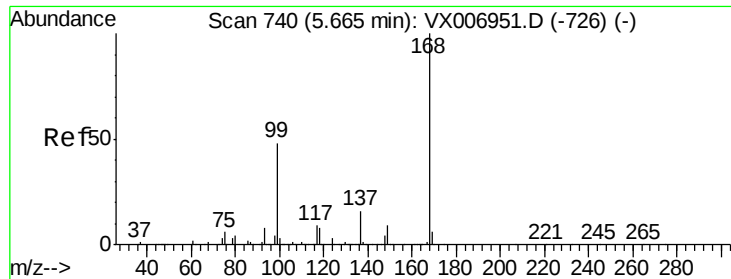
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007239.D

Acq: 25 Jan 2019 19:48

Instrument :

MSVOA_X

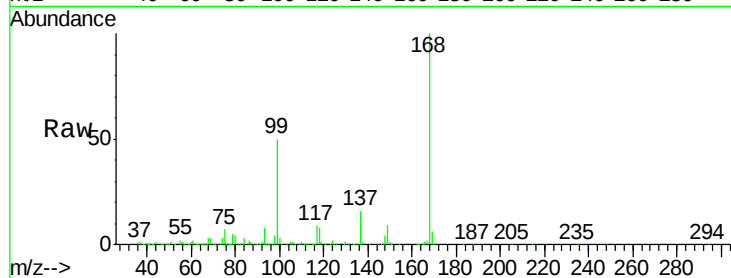
ClientSampleId :

Tot Ion:168 Resp: 543633

Ion Ratio Lower Upper

168 100

99 50.3 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

200000

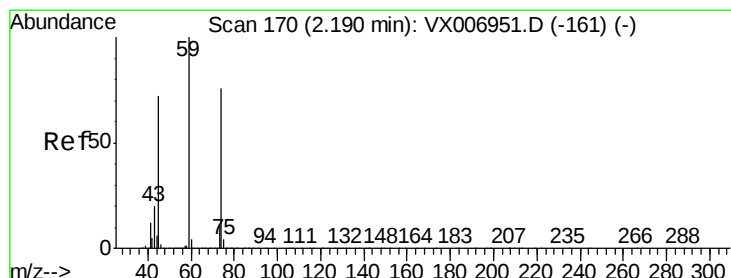
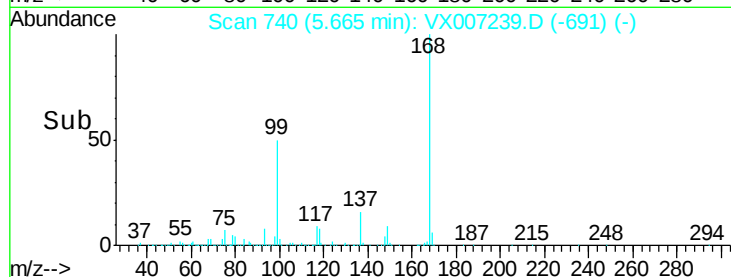
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 0.204 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX007239.D

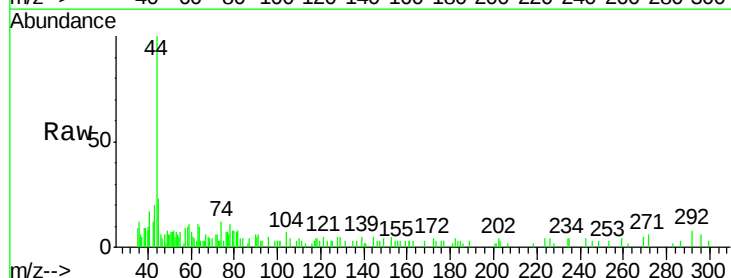
Acq: 25 Jan 2019 19:48

Tgt Ion: 74 Resp: 733

Ion Ratio Lower Upper

74 100

45 70.7 46.3 138.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.18

1000

800

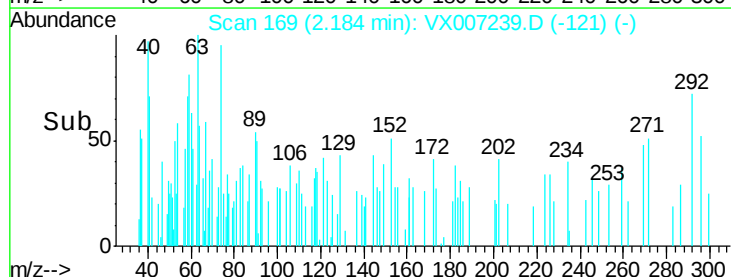
600

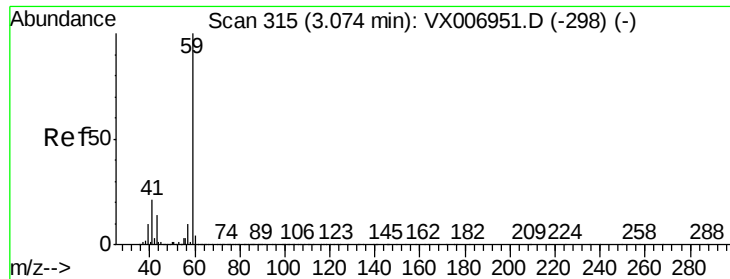
400

200

0

Time--> 2.15 2.20 2.25



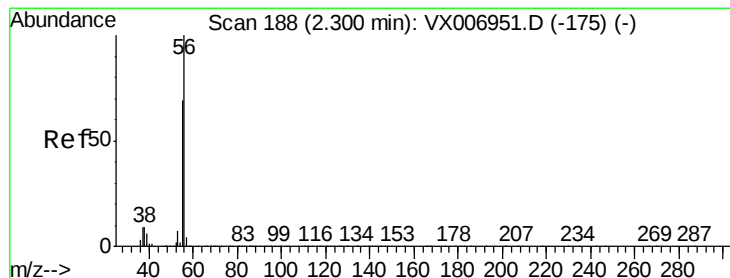
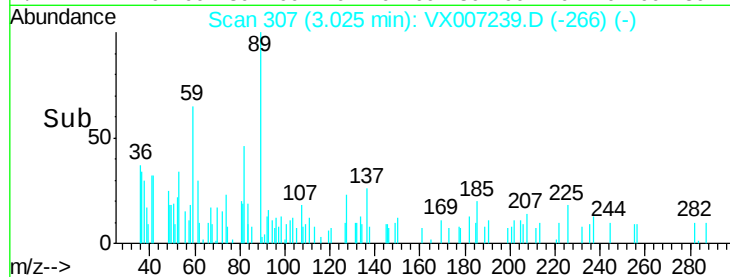
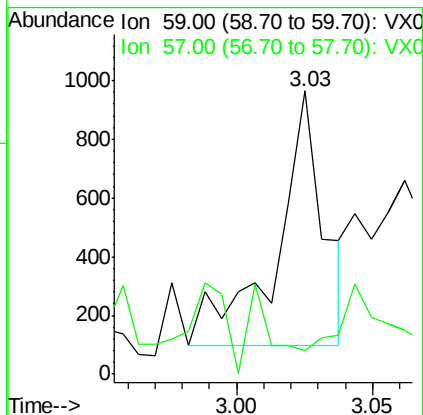
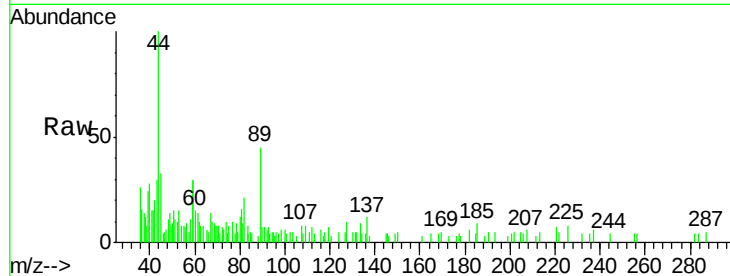


#11

Tert butyl alcohol
Concen: 0.790 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX007239.D
Acq: 25 Jan 2019 19:48

Instrument :
MSVOA_X
ClientSampled :

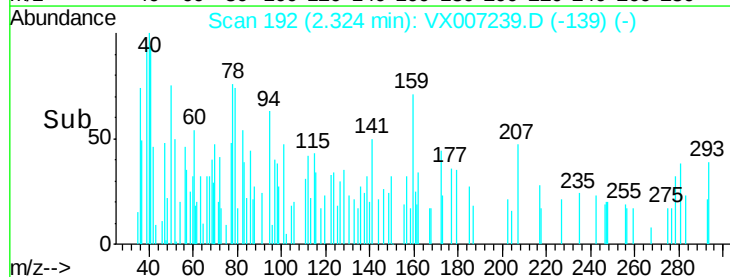
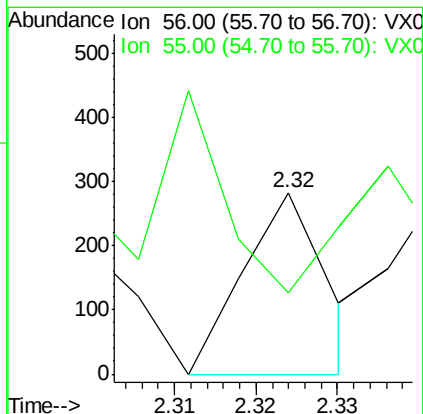
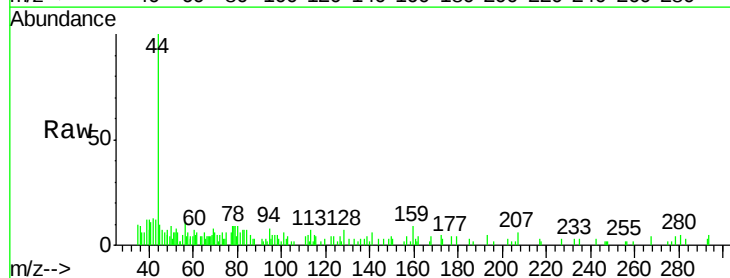
Tot Ion: 59 Resp: 1059
Ion Ratio Lower Upper
59 100
57 20.1 8.5 12.7#

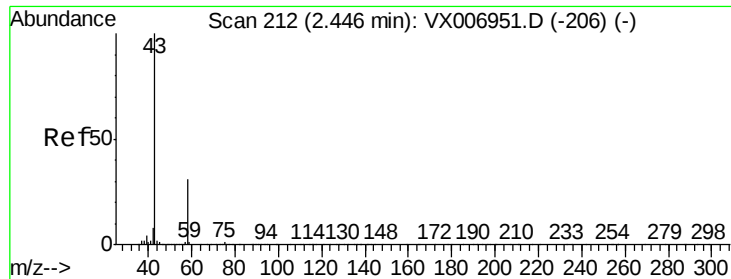


#13

Acrolein
Concen: 3.422 ug/l
RT: 2.32 min Scan# 192
Delta R.T. 0.02 min
Lab File: VX007239.D
Acq: 25 Jan 2019 19:48

Tgt Ion: 56 Resp: 198
Ion Ratio Lower Upper
56 100
55 115.2 58.2 87.4#

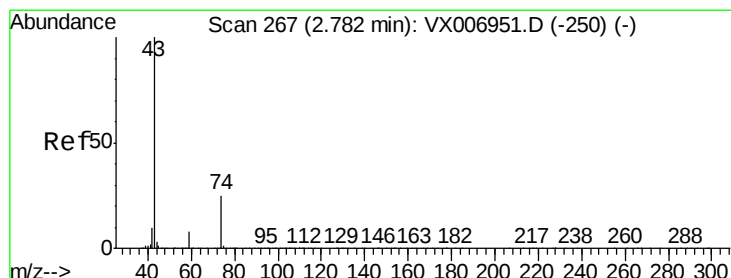
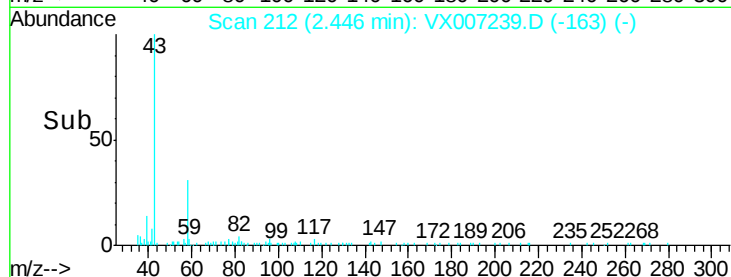
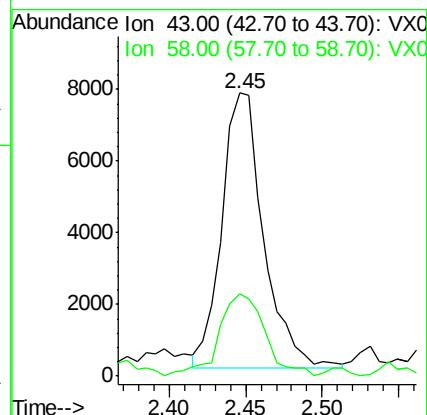
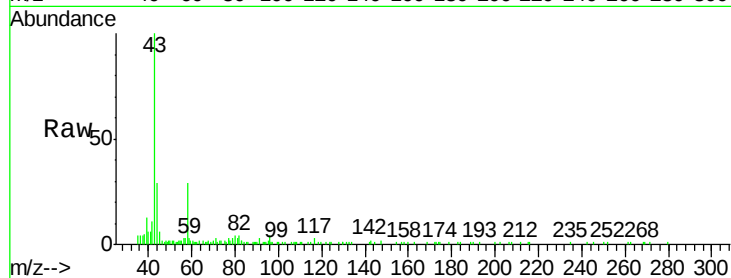




#16
Acetone
Concen: 5.176 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007239.D
Acq: 25 Jan 2019 19:48

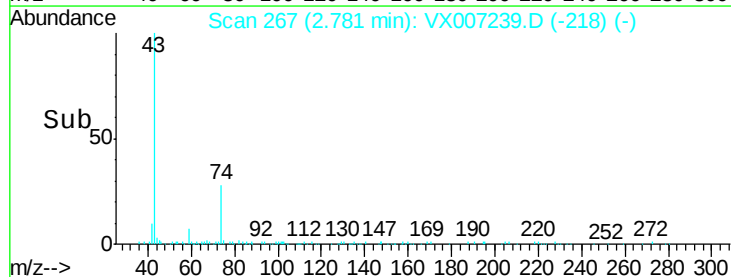
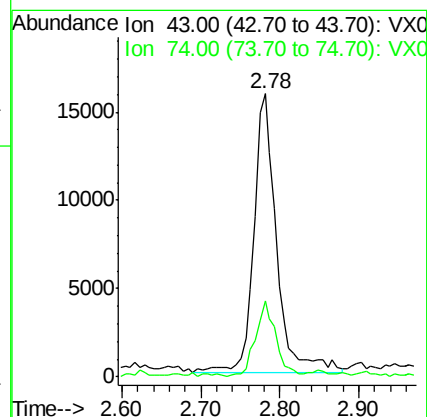
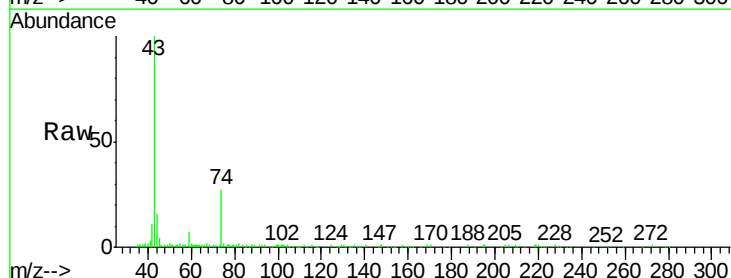
Instrument :
MSVOA_X
ClientSampleId :

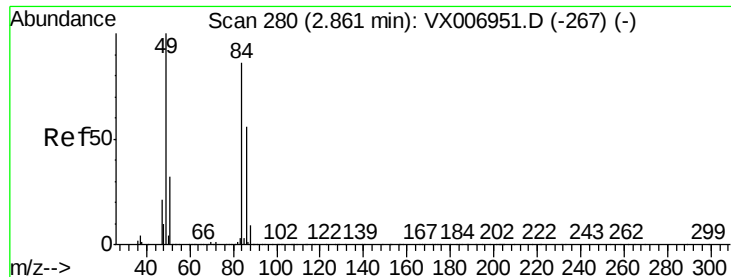
Tot Ion: 43 Resp: 14537
Ion Ratio Lower Upper
43 100
58 27.4 25.0 37.6



#18
Methyl Acetate
Concen: 3.892 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007239.D
Acq: 25 Jan 2019 19:48

Tgt Ion: 43 Resp: 31654
Ion Ratio Lower Upper
43 100
74 24.8 18.6 28.0





#20

Methvlene Chloride

Concen: 2.214 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX007239.D

Acq: 25 Jan 2019 19:48

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 84 Resp: 14716

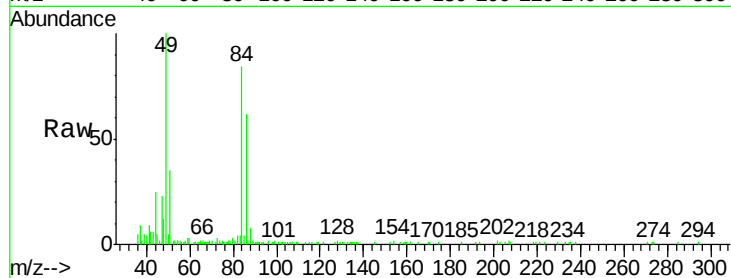
Ion	Ratio	Lower	Upper
84	100		
49	117.3	91.8	137.6
51	40.9	28.5	42.7
86	74.9	50.2	75.2

84 100

49 117.3 91.8 137.6

51 40.9 28.5 42.7

86 74.9 50.2 75.2

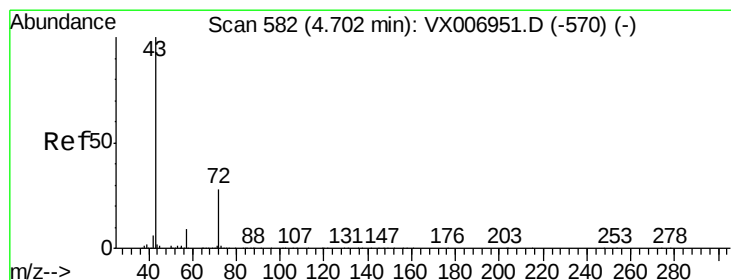
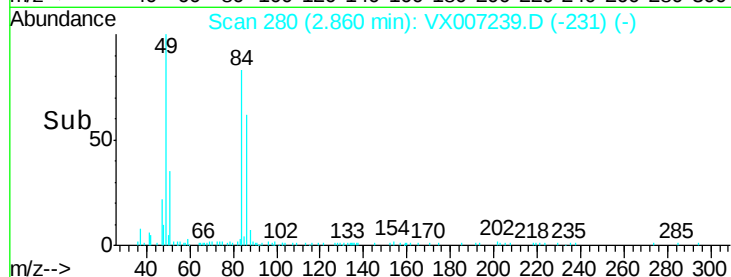
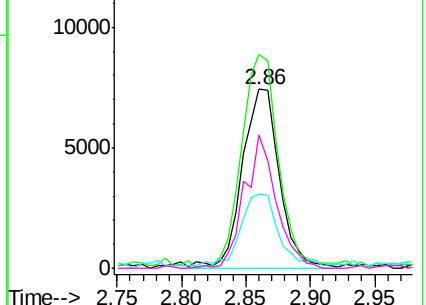


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.291 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX007239.D

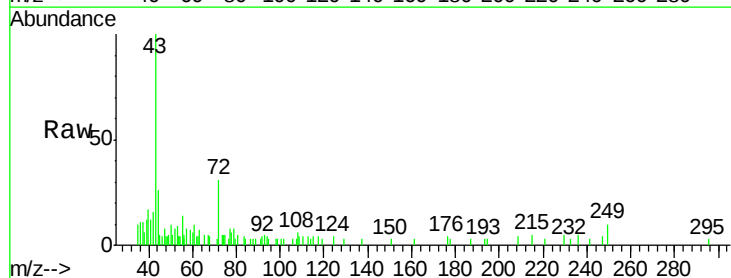
Acq: 25 Jan 2019 19:48

Tgt Ion: 43 Resp: 5188

Ion	Ratio	Lower	Upper
43	100		
72	30.4	22.4	33.6

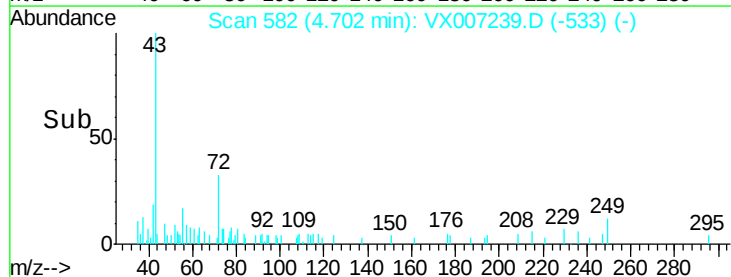
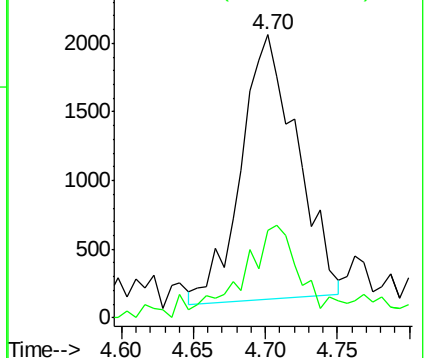
43 100

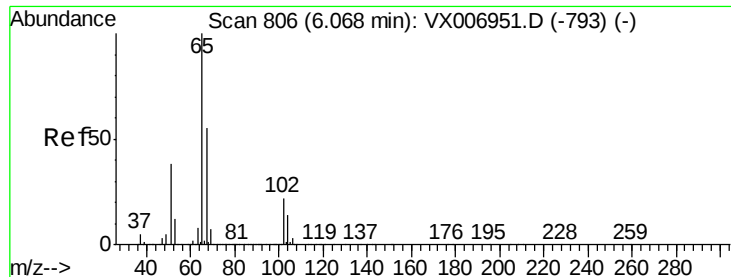
72 30.4 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.880 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007239.D

Acq: 25 Jan 2019 19:48

Instrument :

MSVOA_X

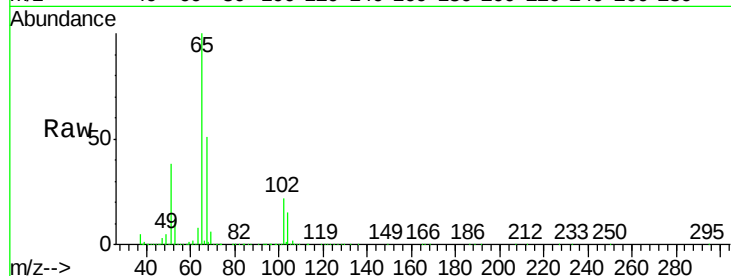
ClientSampleId :

Tot Ion: 65 Resp: 294754

Ion Ratio Lower Upper

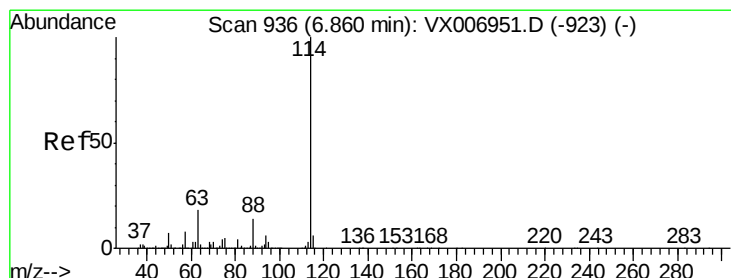
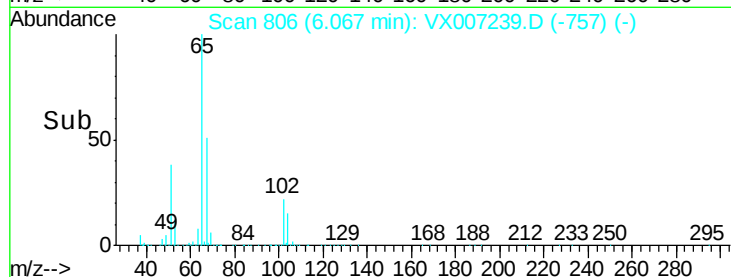
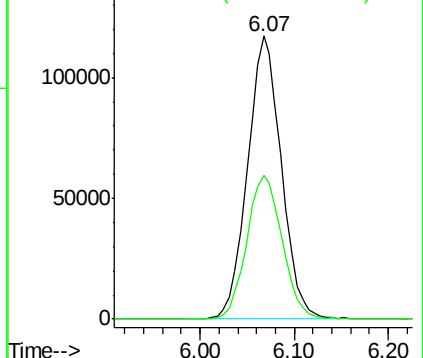
65 100

67 53.1 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007239.D

Acq: 25 Jan 2019 19:48

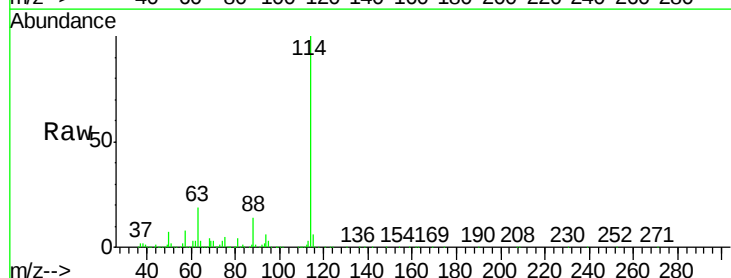
Tgt Ion: 114 Resp: 847008

Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.8

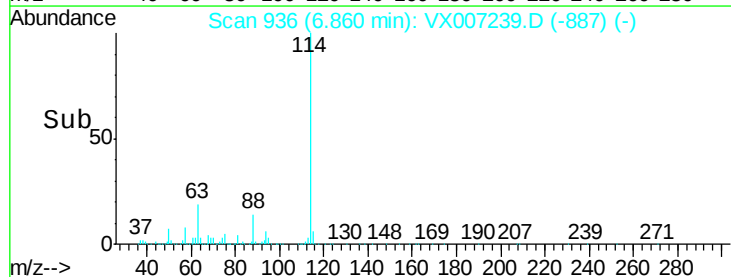
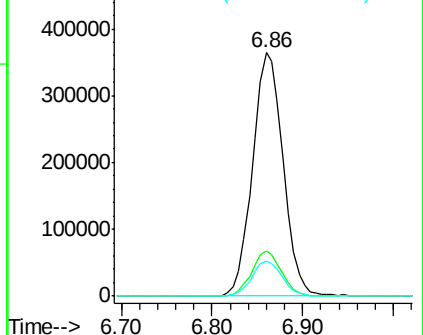
88 14.3 0.0 28.8

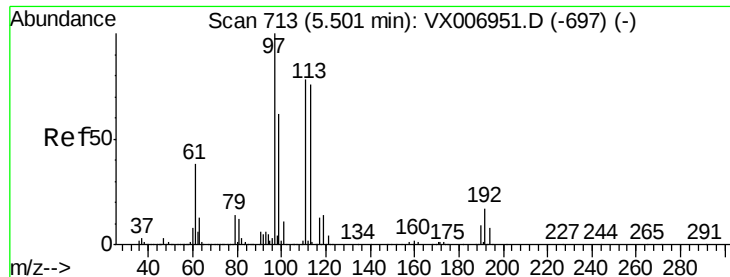


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.655 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007239.D

Acq: 25 Jan 2019 19:48

Instrument :
MSVOA_X
ClientSampleId :

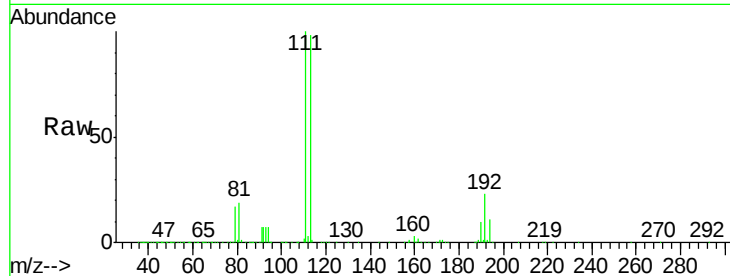
Tot Ion:113 Resp: 263916

Ion Ratio Lower Upper

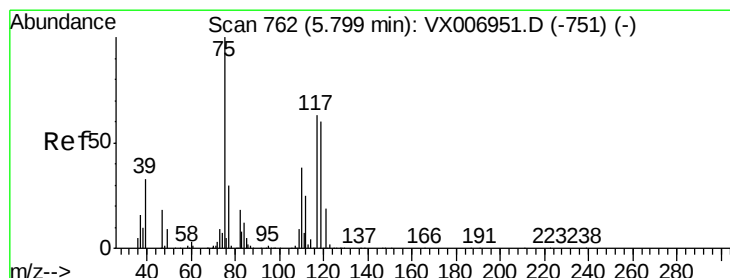
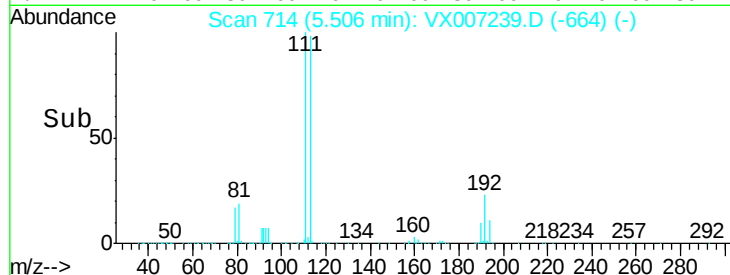
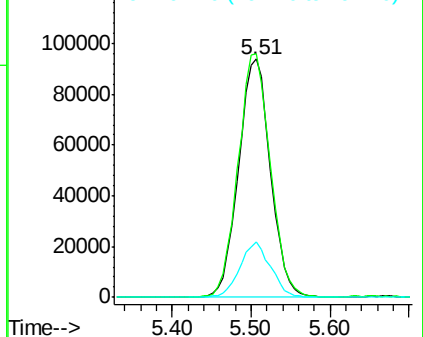
113 100

111 103.4 81.6 122.4

192 22.3 16.7 25.1



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: 4.747 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007239.D

Acq: 25 Jan 2019 19:48

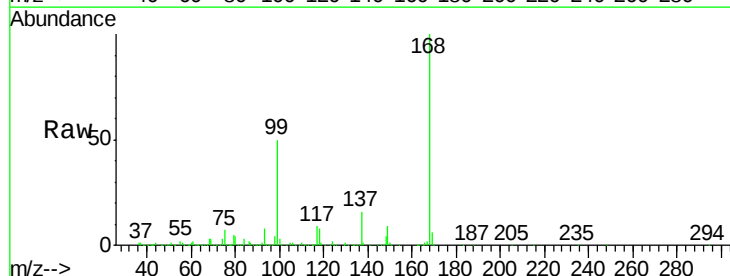
Tgt Ion: 75 Resp: 34957

Ion Ratio Lower Upper

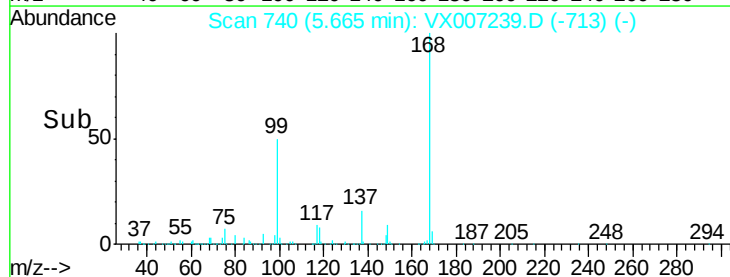
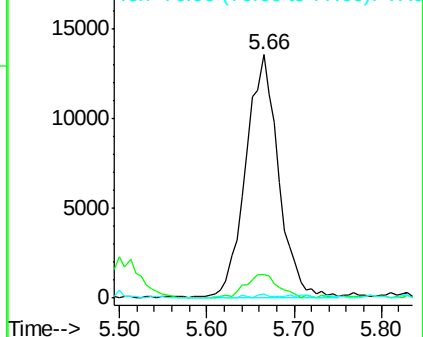
75 100

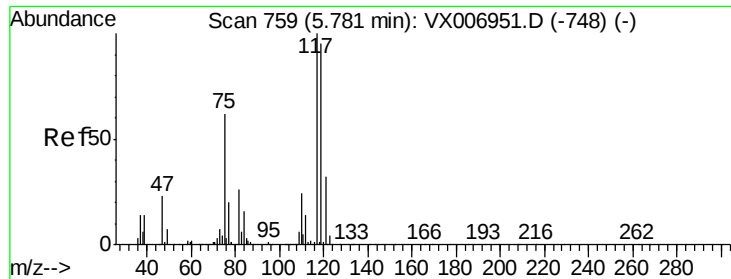
110 9.9 20.2 60.5#

77 0.6 24.8 37.2#



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: 6.692 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007239.D

Acq: 25 Jan 2019 19:48

Instrument :

MSVOA_X

ClientSampleId :

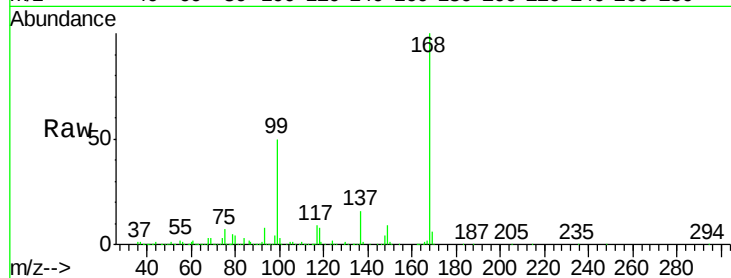
Tot Ion:117 Resp: 49583

Ion Ratio Lower Upper

117 100

119 5.4 79.4 119.2#

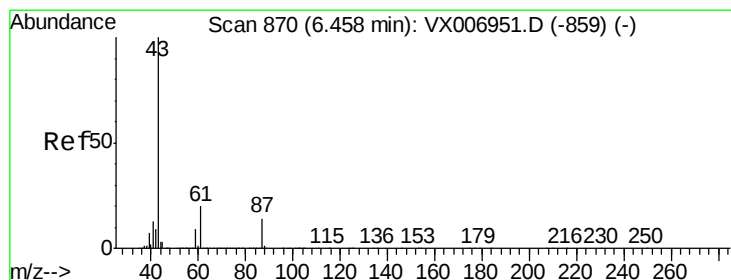
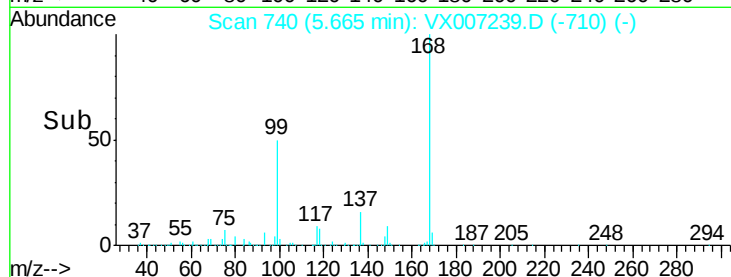
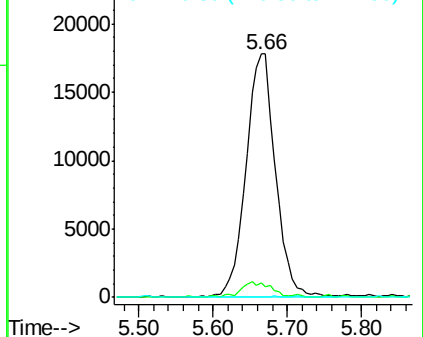
121 0.0 24.0 36.0#



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: 2.268 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007239.D

Acq: 25 Jan 2019 19:48

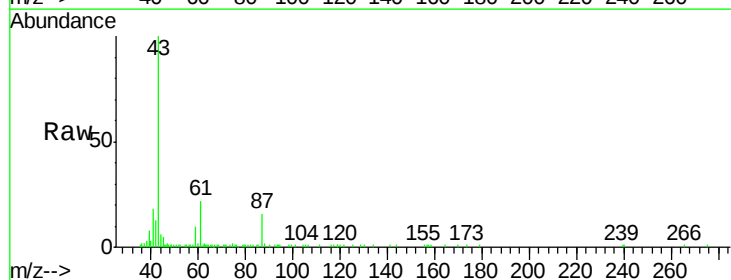
Tgt Ion: 43 Resp: 28241

Ion Ratio Lower Upper

43 100

61 22.3 16.8 25.2

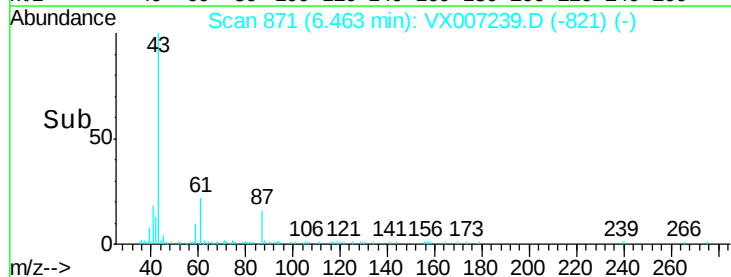
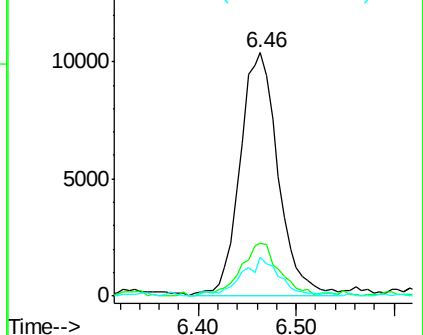
87 16.0 12.4 18.6

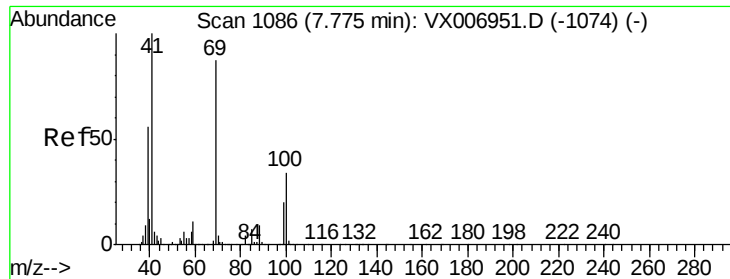


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

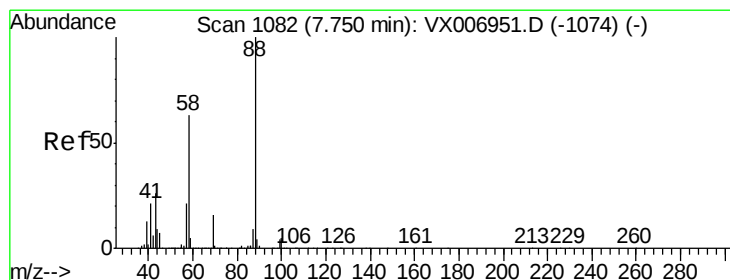
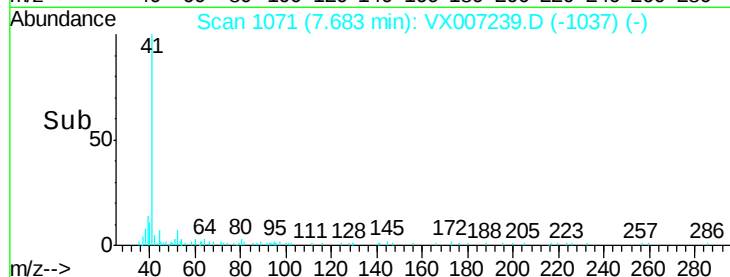
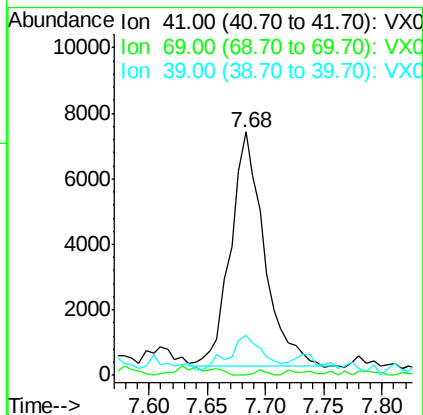
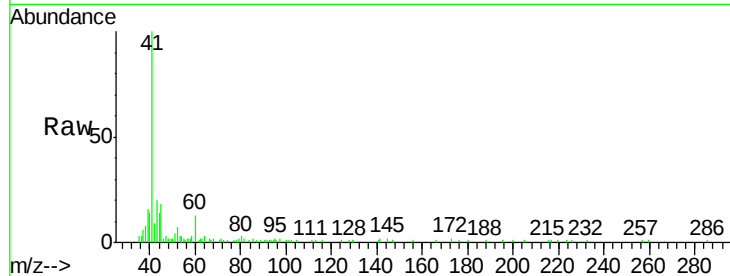




#48
Methyl methacrylate
Concen: 2.257 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX007239.D
Acq: 25 Jan 2019 19:48

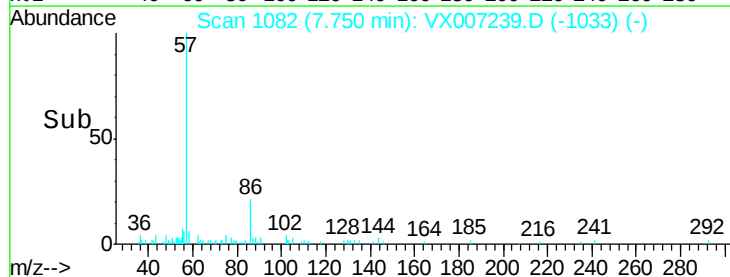
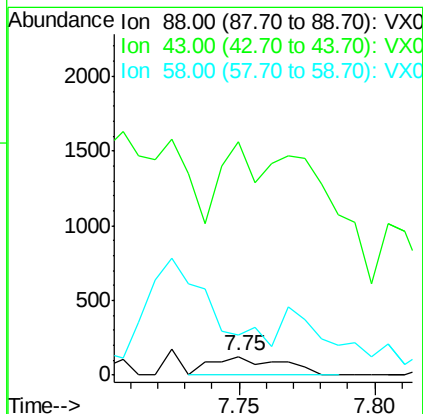
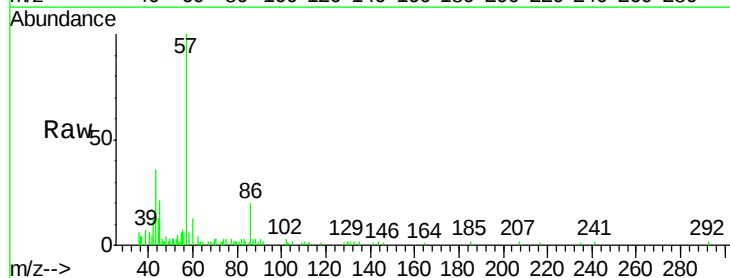
Instrument :
MSVOA_X
ClientSampleId :

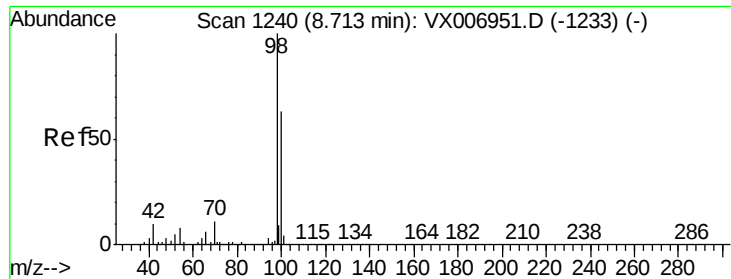
Tot Ion	Ratio	Lower	Upper
41	100		
69	0.8	72.4	108.6#
39	0.0	45.8	68.8#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.75 min Scan# 1082
Delta R.T. -0.00 min
Lab File: VX007239.D
Acq: 25 Jan 2019 19:48

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	22.2	33.4#
58	219.7	51.0	76.4#





#50

Toluene-d8

Concen: 52.461 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007239.D

Acq: 25 Jan 2019 19:48

Instrument :

MSVOA_X

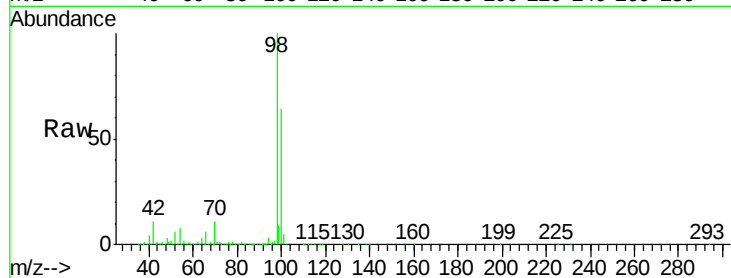
ClientSampleId :

Tot Ion: 98 Resp: 1041565

Ion Ratio Lower Upper

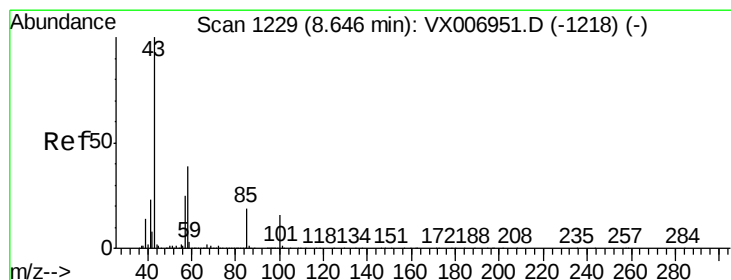
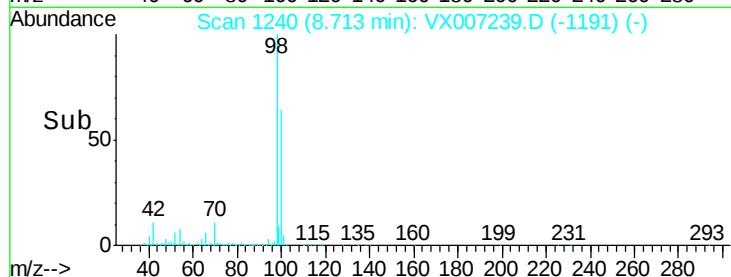
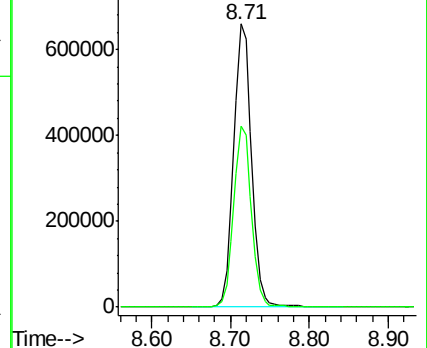
98 100

100 63.7 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 17.846 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007239.D

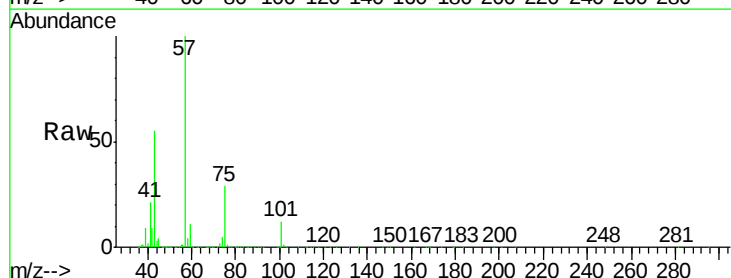
Acq: 25 Jan 2019 19:48

Tgt Ion: 43 Resp: 142827

Ion Ratio Lower Upper

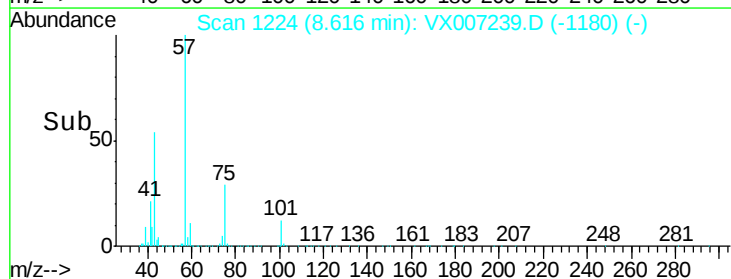
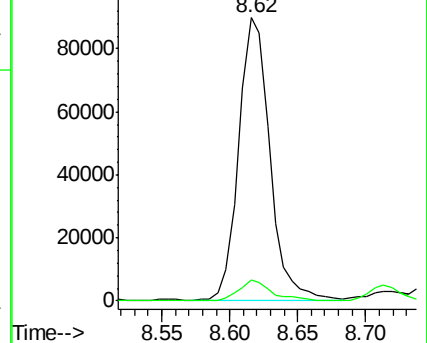
43 100

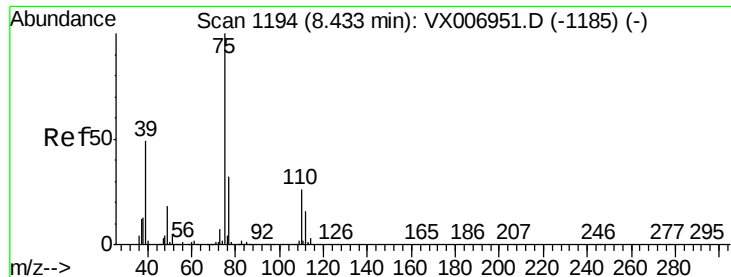
58 7.8 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 8.631 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007239.D

Acq: 25 Jan 2019 19:48

Instrument :

MSVOA_X

ClientSampleId :

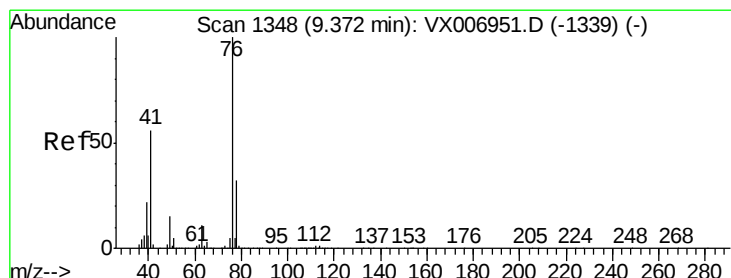
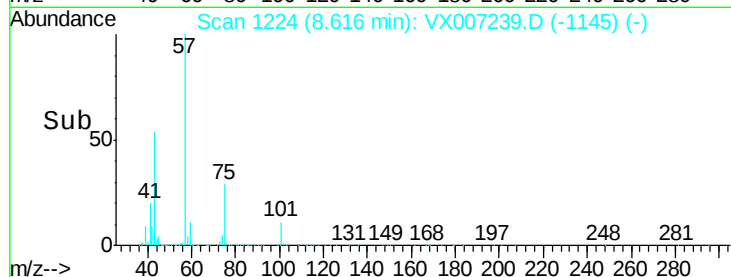
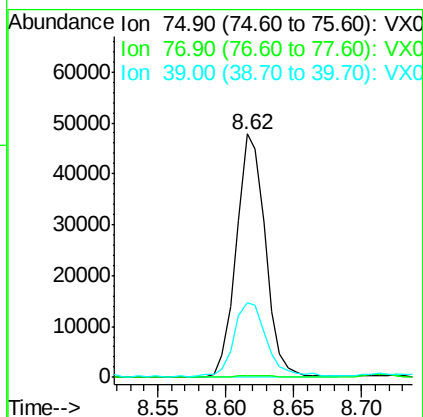
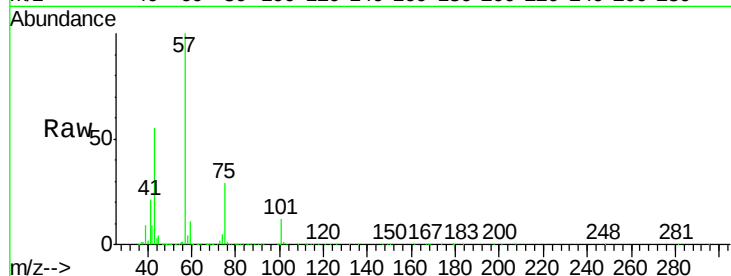
Tot Ion: 75 Resp: 71422

Ion Ratio Lower Upper

75 100

77 0.7 26.2 39.2#

39 30.2 36.7 55.1#



#57

1,3-Dichloropropane

Concen: 1.783 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007239.D

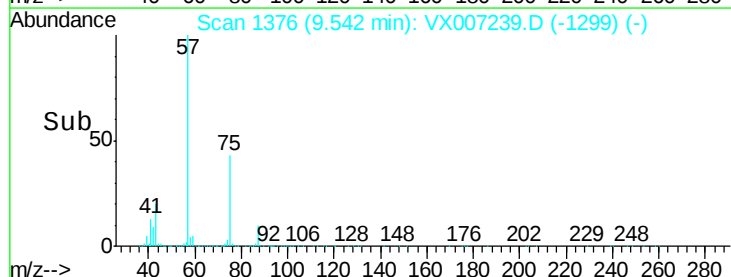
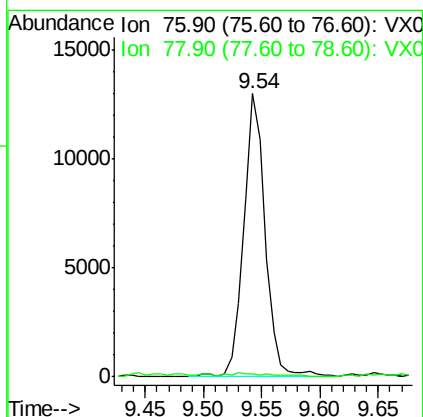
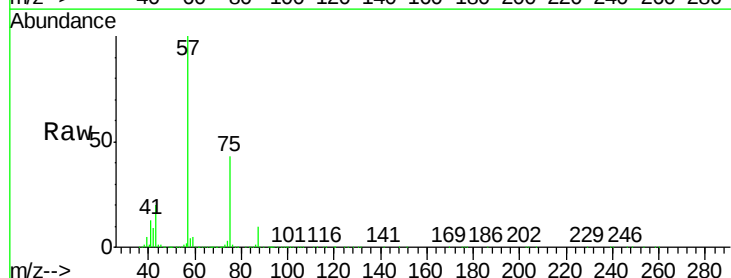
Acq: 25 Jan 2019 19:48

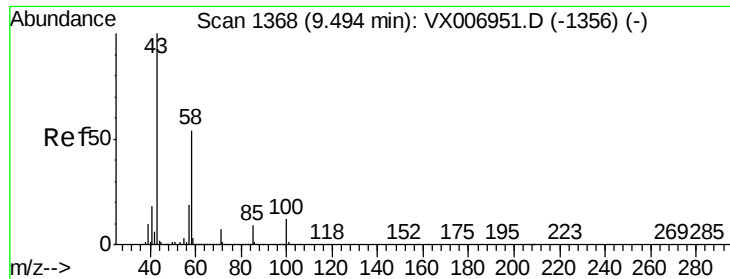
Tgt Ion: 76 Resp: 16885

Ion Ratio Lower Upper

76 100

78 2.8 26.0 39.0#

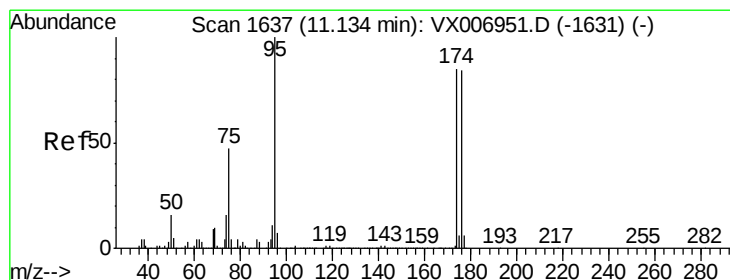
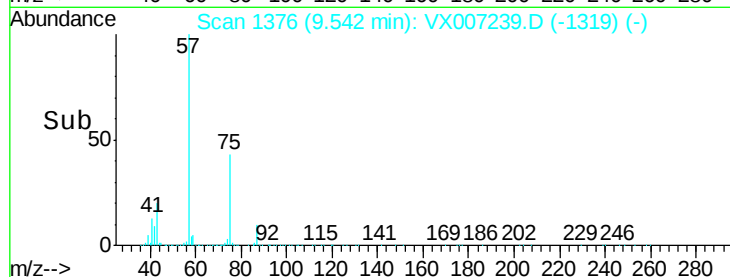
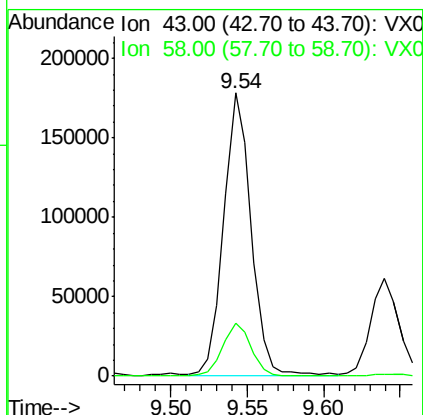
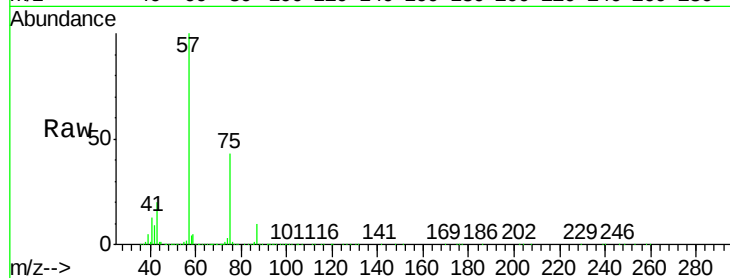




#59
2-Hexanone
Concen: 36.286 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007239.D
Acq: 25 Jan 2019 19:48

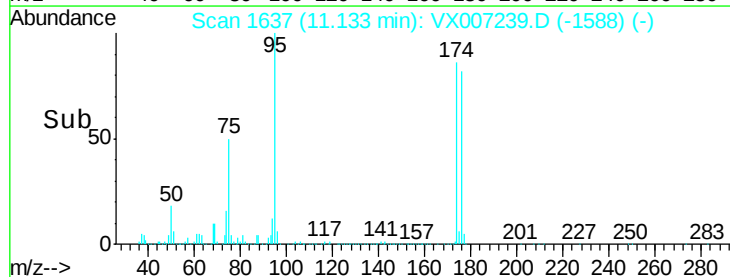
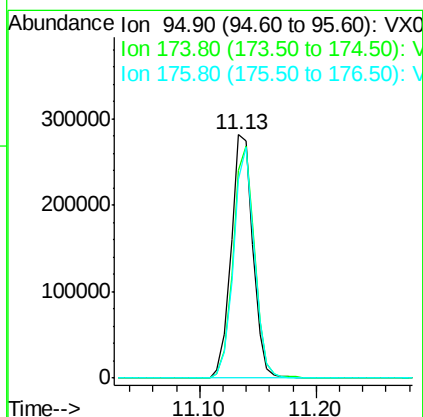
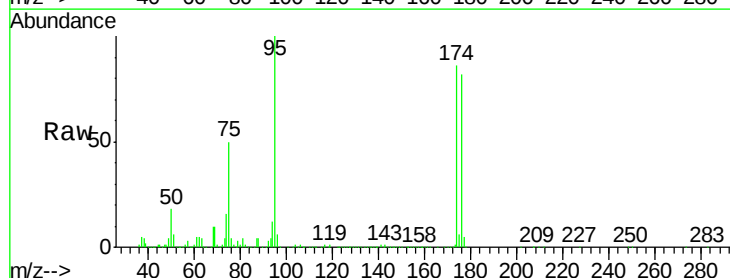
Instrument :
MSVOA_X
ClientSampleId :

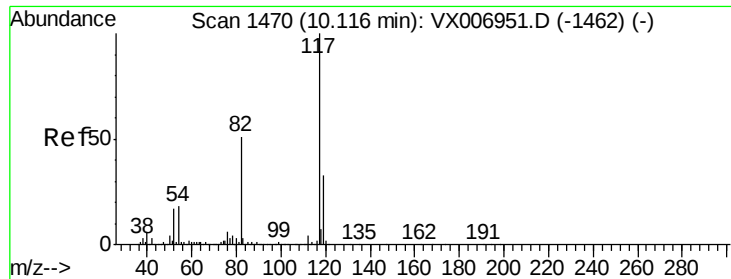
Tot Ion: 43 Resp: 221303
Ion Ratio Lower Upper
43 100
58 20.5 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 53.114 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007239.D
Acq: 25 Jan 2019 19:48

Tgt Ion: 95 Resp: 367640
Ion Ratio Lower Upper
95 100
174 93.7 0.0 182.2
176 90.6 0.0 178.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX007239.D

Acq: 25 Jan 2019 19:48

Instrument :

MSVOA_X

ClientSampleId :

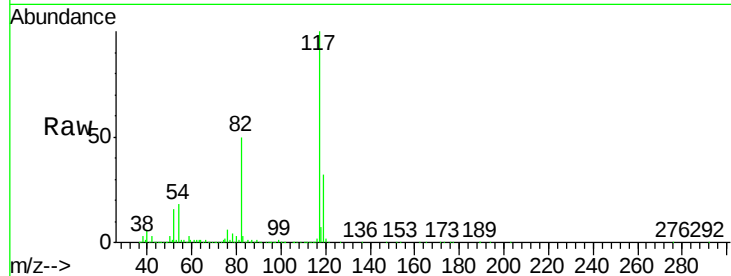
Tot Ion:117 Resp: 821754

Ion Ratio Lower Upper

117 100

82 50.1 41.0 61.6

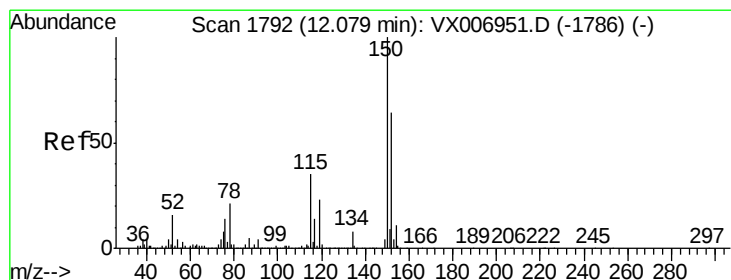
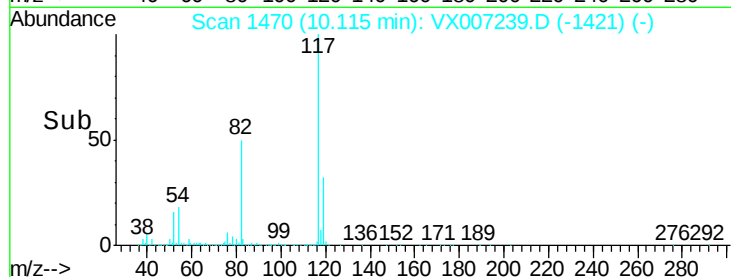
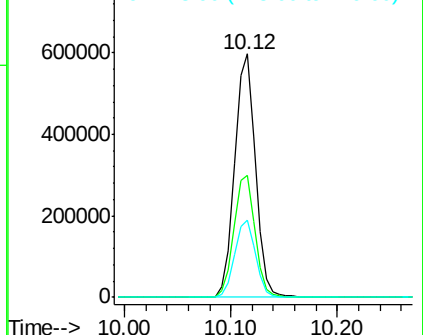
119 31.6 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

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: VX007239.D

Acq: 25 Jan 2019 19:48

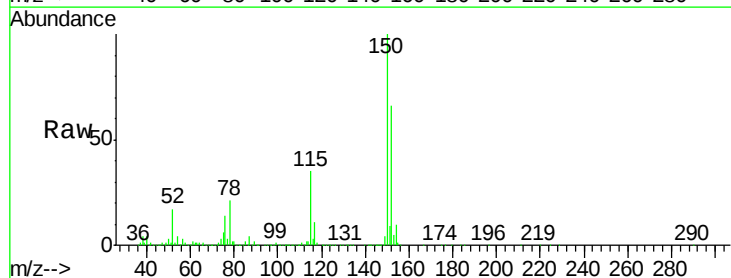
Tgt Ion:152 Resp: 400025

Ion Ratio Lower Upper

152 100

115 54.7 39.1 117.2

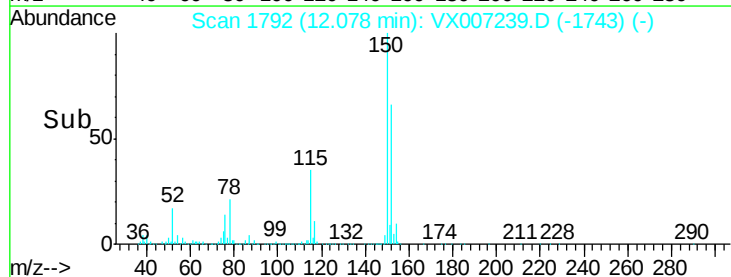
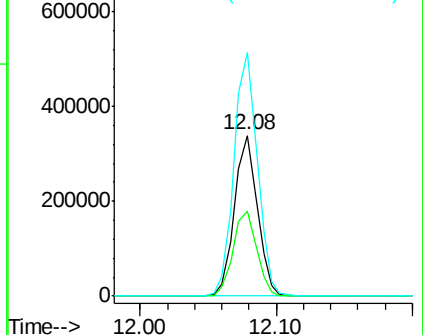
150 154.4 0.0 344.8

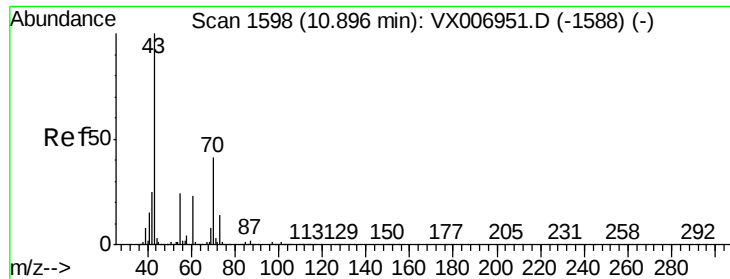


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.100 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007239.D

Acq: 25 Jan 2019 19:48

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 23855

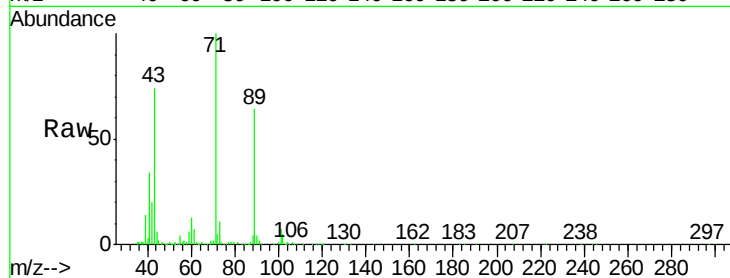
Ion Ratio Lower Upper

43 100

70 3.7 35.8 53.8#

55 4.8 19.4 29.0#

61 10.8 20.1 30.1#



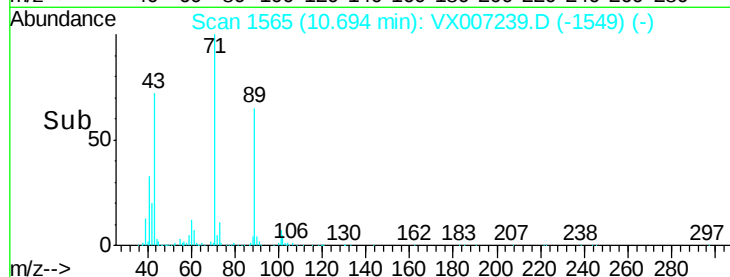
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

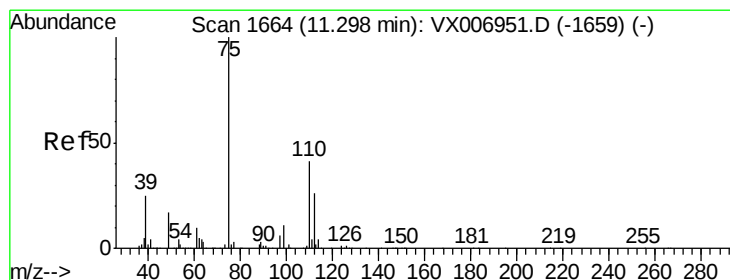
Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Time-->



Time-->



#76

1,2,3-Trichloropropane

Concen: 21.827 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.17 min

Lab File: VX007239.D

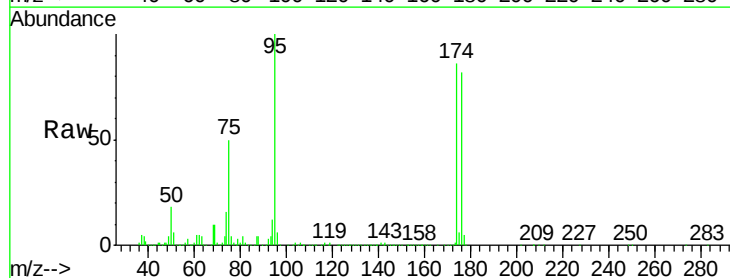
Acq: 25 Jan 2019 19:48

Tgt Ion: 75 Resp: 176934

Ion Ratio Lower Upper

75 100

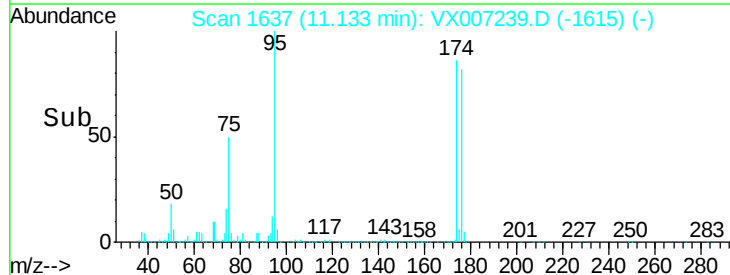
77 1.3 18.5 55.5#



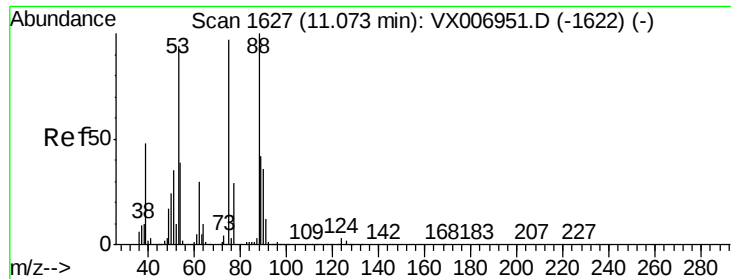
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

Time-->



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 64.669 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007239.D

Acq: 25 Jan 2019 19:48

Instrument :

MSVOA_X

ClientSampleId :

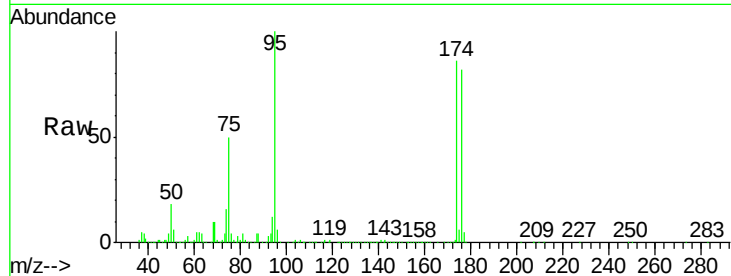
Tot Ion: 75 Resp: 176934

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

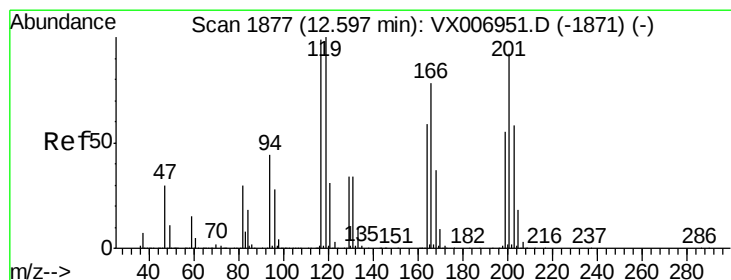
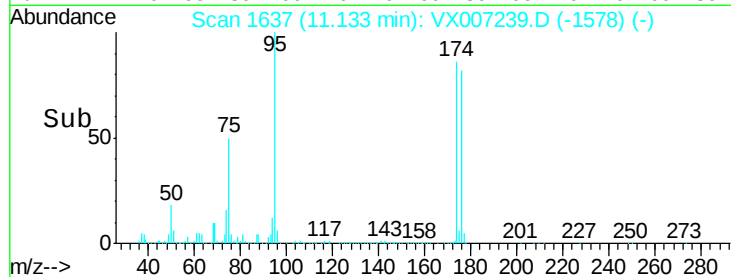
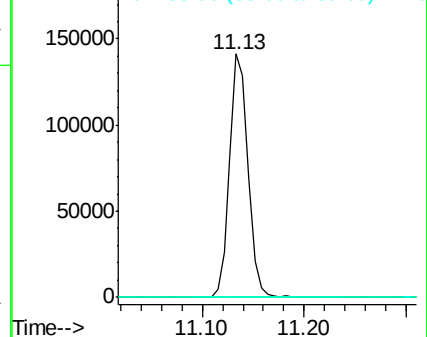
89 0.1 38.0 57.0#



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



#90

Hexachloroethane

Concen: 2.913 ug/l

RT: 12.80 min Scan# 1911

Delta R.T. 0.21 min

Lab File: VX007239.D

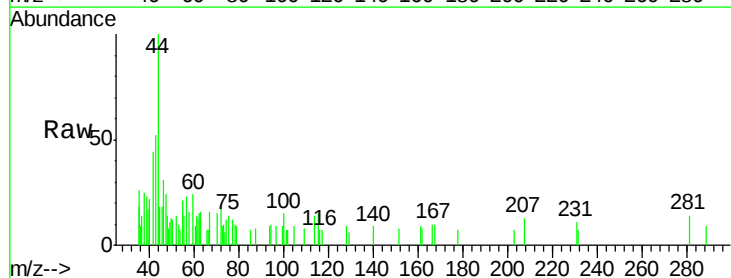
Acq: 25 Jan 2019 19:48

Tgt Ion: 117 Resp: 21

Ion Ratio Lower Upper

117 100

201 95.2 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

