

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111218\
 Data File : VX005935.D
 Acq On : 13 Nov 2018 07:32
 Operator : JC/MD
 Sample : J5907-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

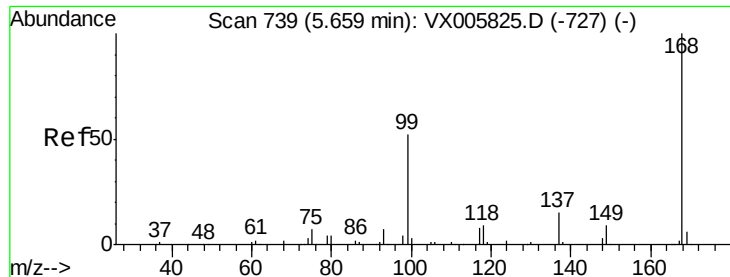
Quant Time: Nov 13 12:04:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 07 14:40:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	102765	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.87	114	142062	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	135587	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	63949	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	63518	53.76	ug/l	0.00
Spiked Amount			Recovery	=	107.52%	
35) Dibromofluoromethane	5.50	113	49962	51.71	ug/l	0.00
Spiked Amount			Recovery	=	103.42%	
50) Toluene-d8	8.71	98	183337	57.07	ug/l	0.00
Spiked Amount			Recovery	=	114.14%	
62) 4-Bromofluorobenzene	11.14	95	59930	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.03	59	1020	3.014	ug/l #	72
16) Acetone	2.45	43	8085	12.710	ug/l	100
20) Methylene Chloride	2.86	84	22222	21.267	ug/l #	84
25) 2-Butanone	4.71	43	916	0.916	ug/l	96
29) Tetrahydrofuran	5.15	42	350	0.545	ug/l #	36
30) Chloroform	5.21	83	725	0.396	ug/l #	82
31) Cyclohexane	5.67	56	1940	1.179	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	7093	5.179	ug/l #	50
37) Ethyl Acetate	4.71	43	916	0.509	ug/l #	69
38) Carbon Tetrachloride	5.67	117	9403	6.858	ug/l #	16
43) Isopropyl Acetate	6.46	43	7176	2.750	ug/l	98
48) Methyl methacrylate	7.68	41	3662	3.125	ug/l #	16
49) 1,4-Dioxane	7.88	88	39	1.545	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	28678	17.437	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	12073	8.734	ug/l #	64
56) Ethyl methacrylate	9.31	69	340	0.229	ug/l #	1
57) 1,3-Dichloropropane	9.55	76	3088	1.848	ug/l #	43
59) 2-Hexanone	9.54	43	48379	33.372	ug/l #	53
74) N-amyl acetate	10.87	43	148	1.320	ug/l #	44
76) 1,2,3-Trichloropropane	11.14	75	30545	23.458	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.51	105	1076	0.342	ug/l	89
81) trans-1,4-Dichloro-2-buten	11.14	75	30545	74.763	ug/l #	9
90) Hexachloroethane	12.66	117	314	0.546	ug/l #	2
95) Naphthalene	13.83	128	6035	2.458	ug/l #	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

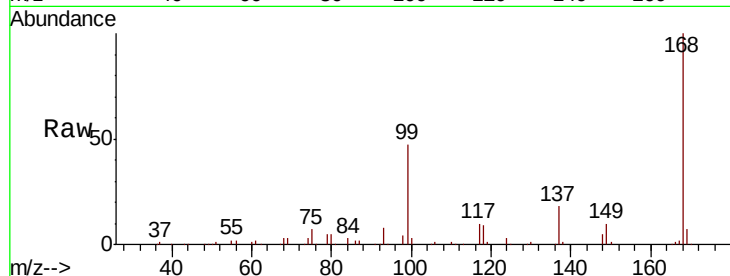
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 102765

Ion Ratio Lower Upper

168 100

99 47.2 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

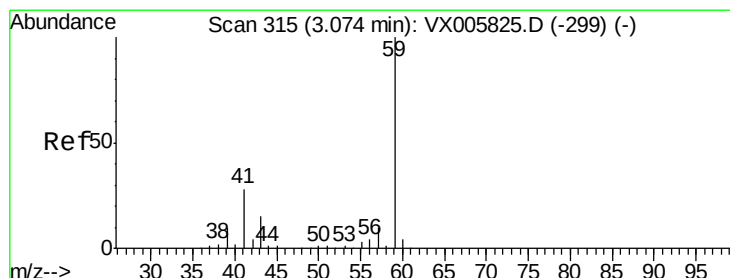
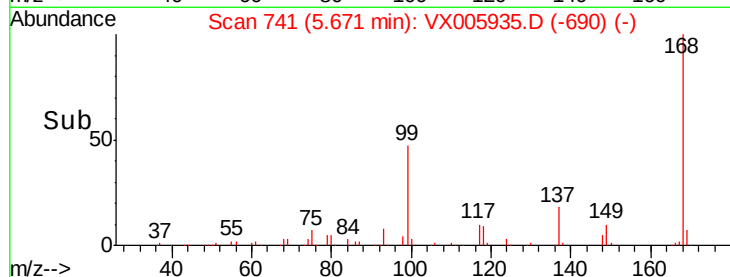
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 3.014 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX005935.D

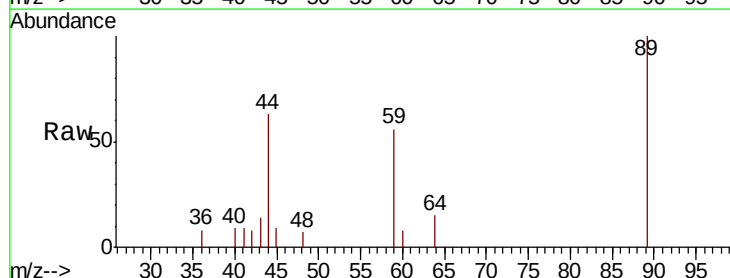
Acq: 13 Nov 2018 07:32

Tgt Ion: 59 Resp: 1020

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.03

400

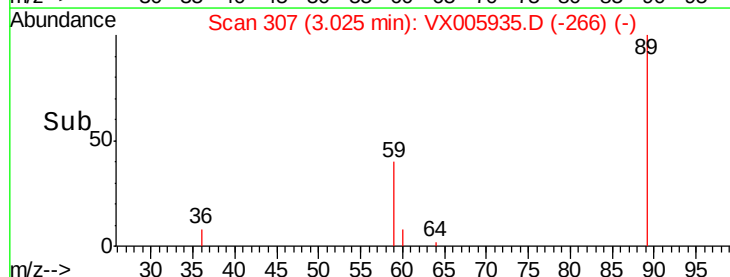
300

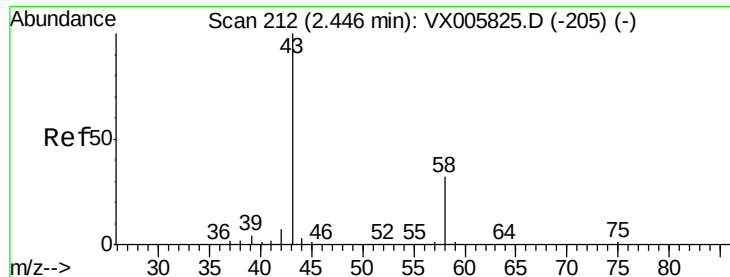
200

100

0

Time--> 2.95 3.00 3.05 3.10

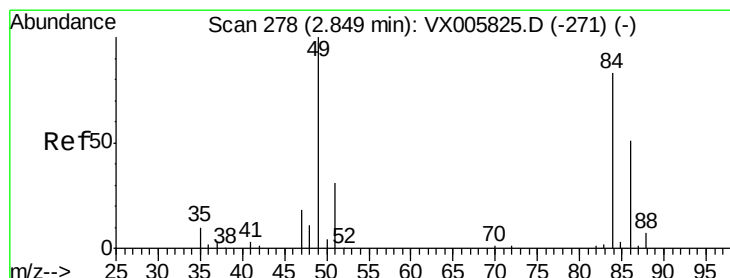
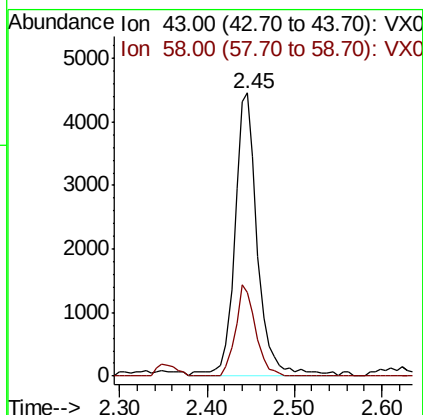
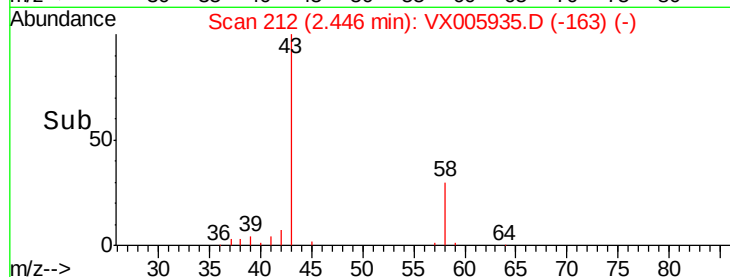
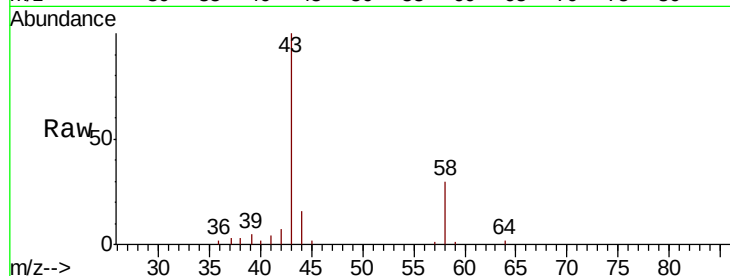




#16
Acetone
Concen: 12.710 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX005935.D
Acq: 13 Nov 2018 07:32

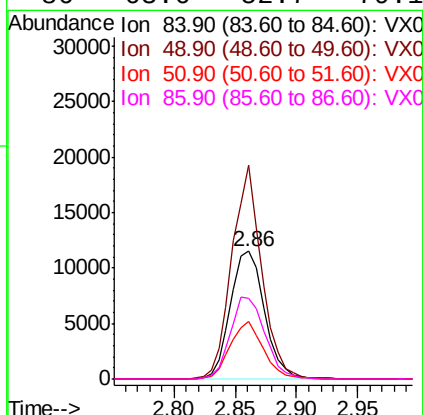
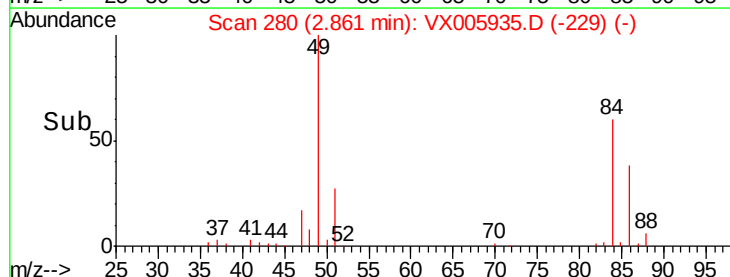
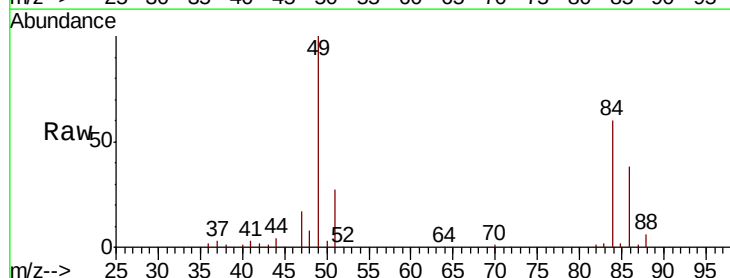
Instrument :
MSVOA_X
ClientSampleId :

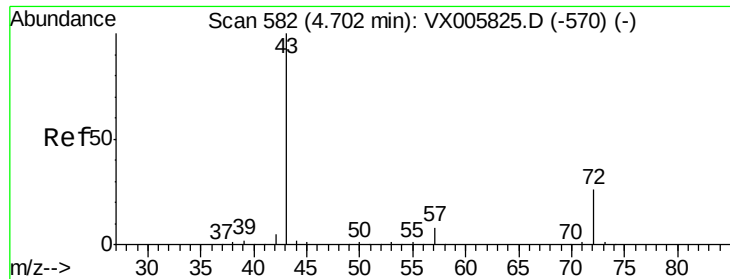
Tot Ion: 43 Resp: 8085
Ion Ratio Lower Upper
43 100
58 29.7 23.8 35.6



#20
Methylene Chloride
Concen: 21.267 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005935.D
Acq: 13 Nov 2018 07:32

Tgt Ion: 84 Resp: 22222
Ion Ratio Lower Upper
84 100
49 167.3 109.5 164.3#
51 45.4 33.3 49.9
86 63.6 52.7 79.1





#25

2-Butanone

Concen: 0.916 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

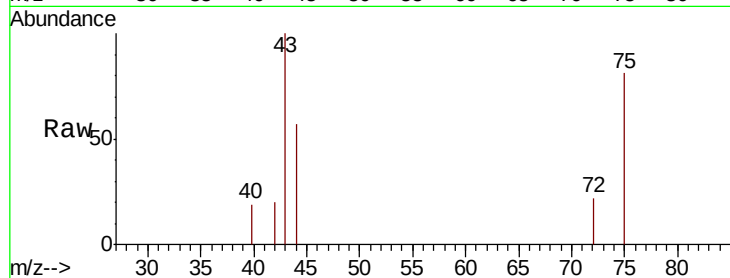
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 916

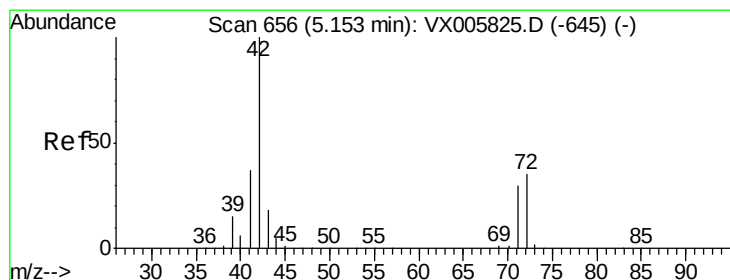
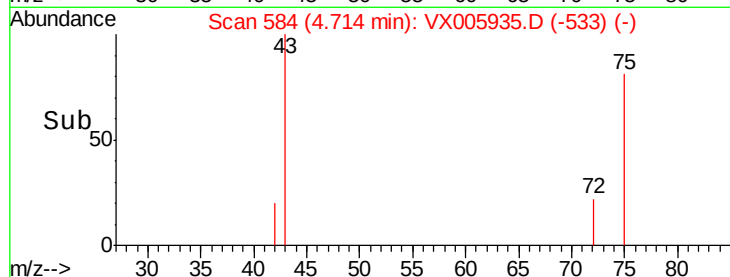
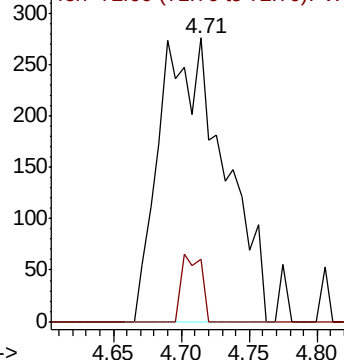
Ion Ratio Lower Upper

43 100

72 22.1 19.2 28.8



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



#29

Tetrahydrofuran

Concen: 0.545 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

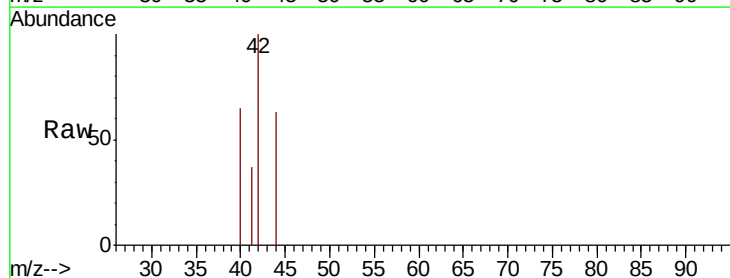
Tgt Ion: 42 Resp: 350

Ion Ratio Lower Upper

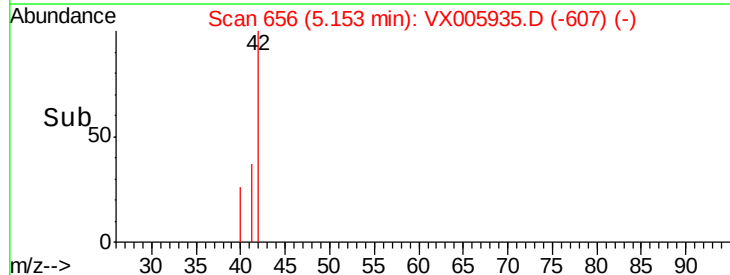
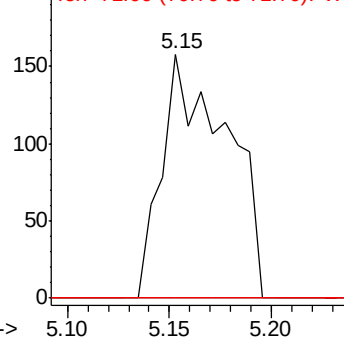
42 100

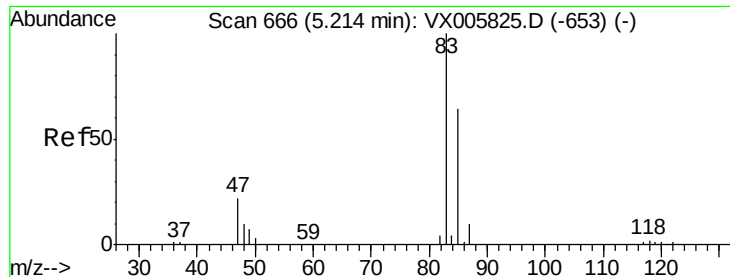
72 0.0 32.0 48.0#

71 0.0 29.8 44.8#



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

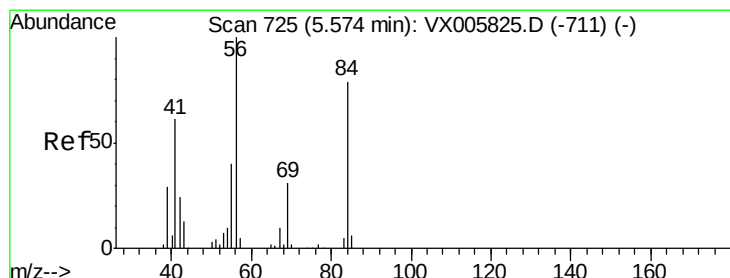
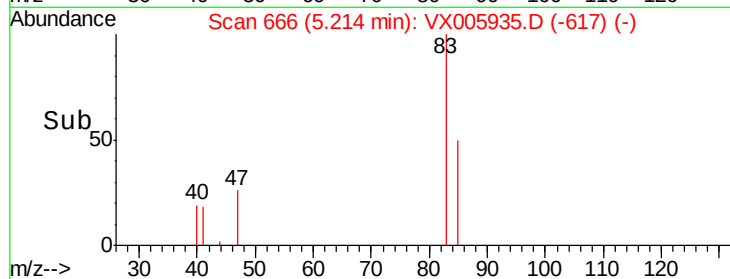
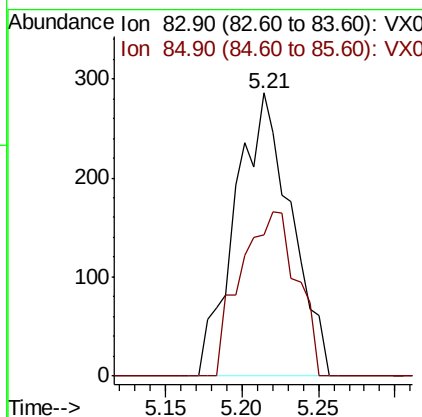
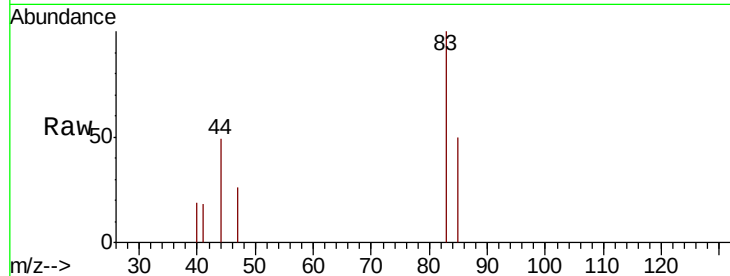




#30
Chloroform
Concen: 0.396 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX005935.D
Acq: 13 Nov 2018 07:32

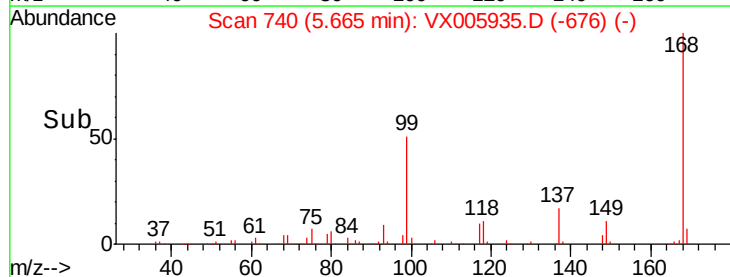
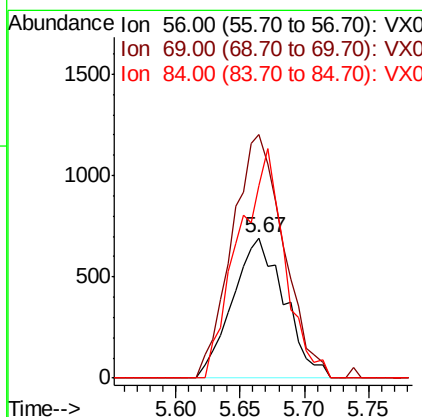
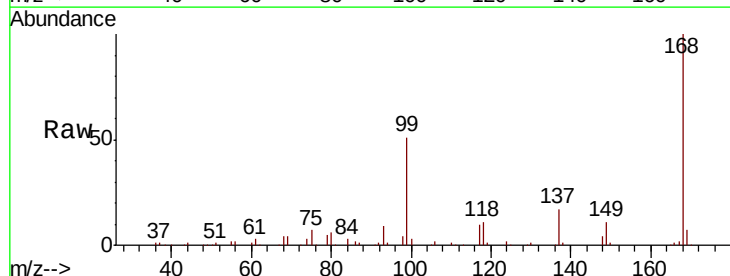
Instrument :
MSVOA_X
ClientSampled :

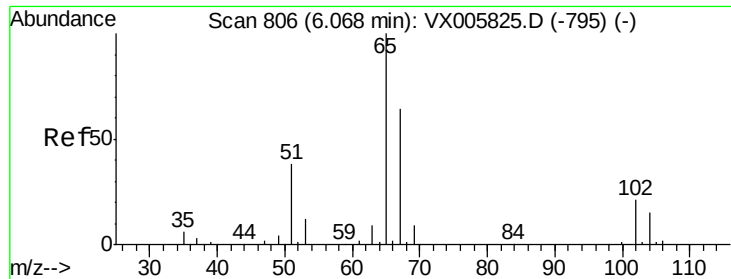
Tot Ion: 83 Resp: 725
Ion Ratio Lower Upper
83 100
85 49.7 50.6 76.0#



#31
Cyclohexane
Concen: 1.179 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX005935.D
Acq: 13 Nov 2018 07:32

Tgt Ion: 56 Resp: 1940
Ion Ratio Lower Upper
56 100
69 173.2 22.6 34.0#
84 137.2 62.7 94.1#

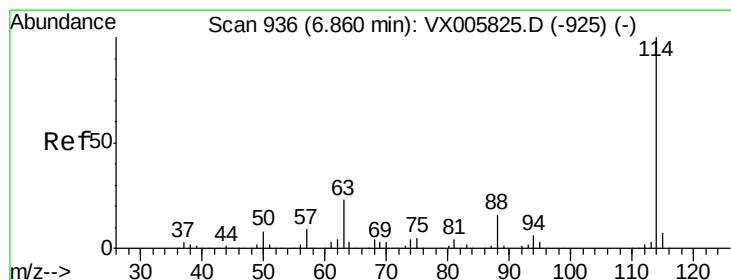
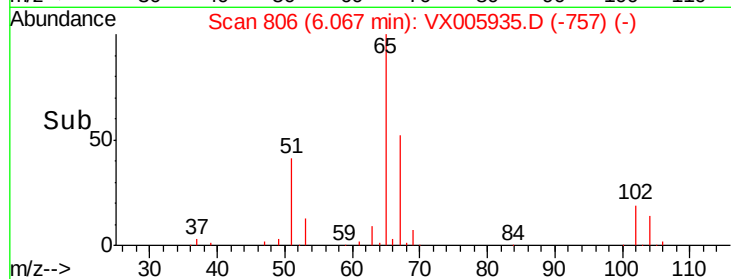
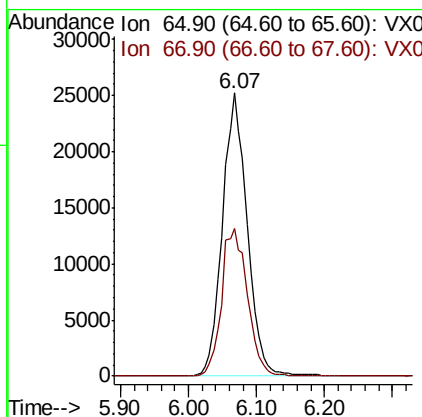
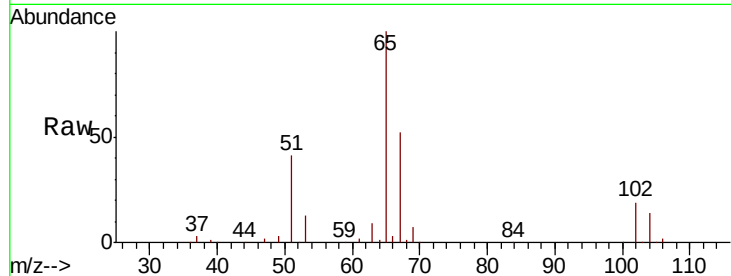




#33
 1,2-Dichloroethane-d4
 Concen: 53.764 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX005935.D
 Acq: 13 Nov 2018 07:32

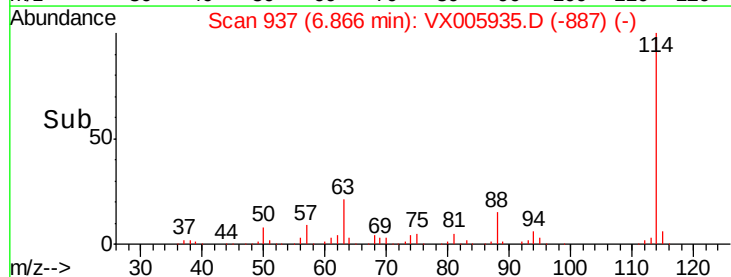
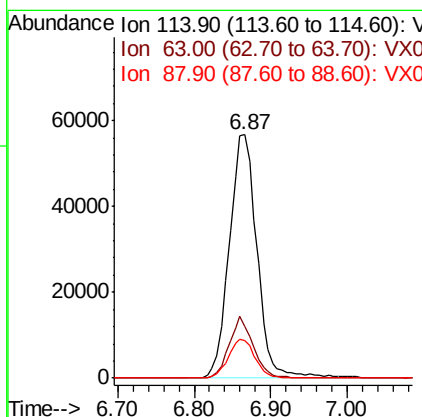
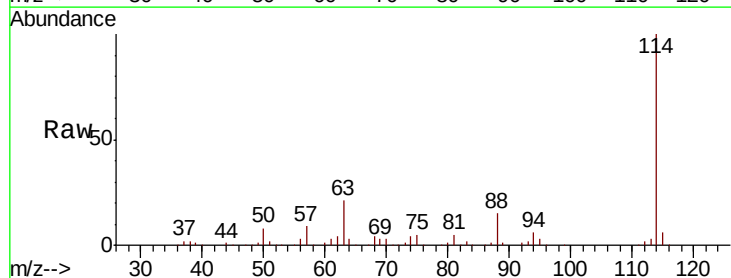
Instrument :
 MSVOA_X
 ClientSampled :

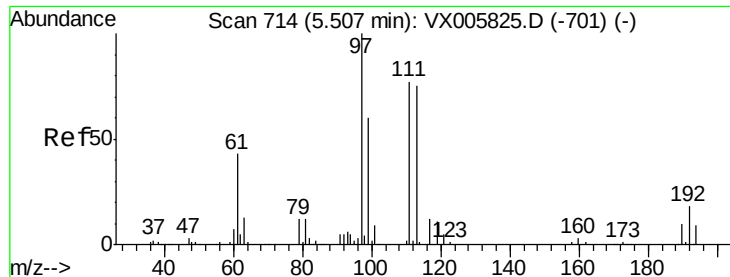
Tot Ion: 65 Resp: 63518
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX005935.D
 Acq: 13 Nov 2018 07:32

Tgt Ion:114 Resp: 142062
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 42.8
 88 15.3 0.0 31.2





#35

Dibromofluoromethane

Concen: 51.708 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

Instrument :

MSVOA_X

ClientSampled :

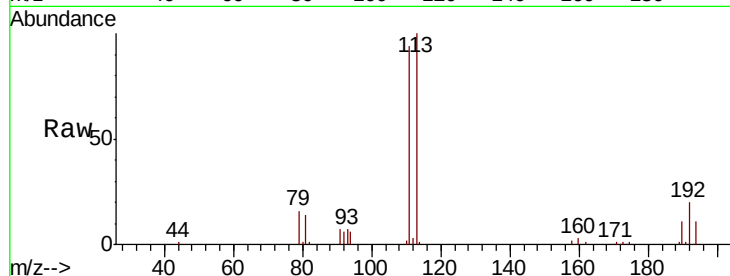
Tot Ion:113 Resp: 49962

Ion Ratio Lower Upper

113 100

111 103.6 82.3 123.5

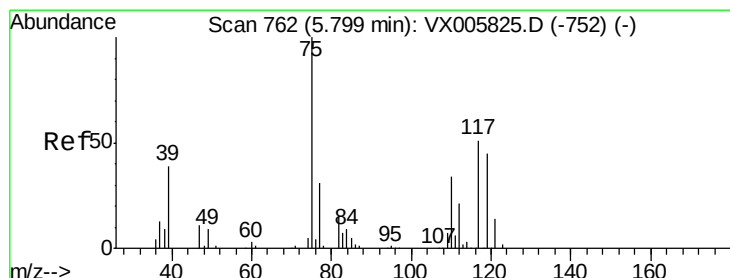
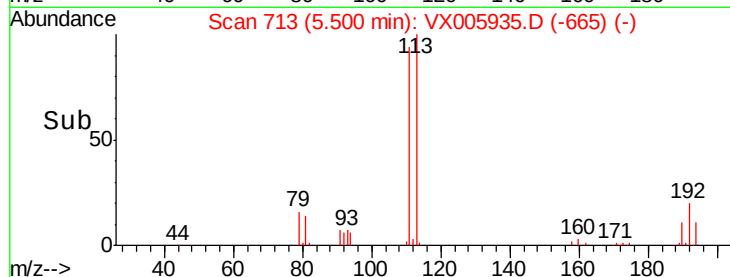
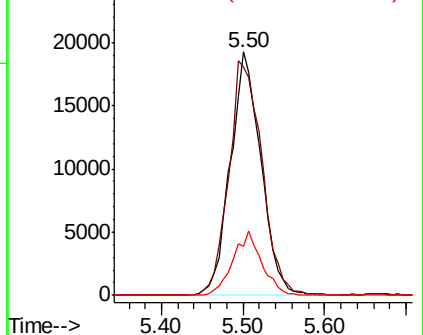
192 24.6 17.9 26.9



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: 5.179 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

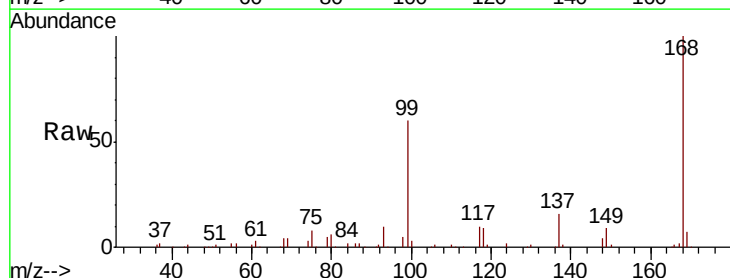
Tgt Ion: 75 Resp: 7093

Ion Ratio Lower Upper

75 100

110 9.5 17.4 52.2#

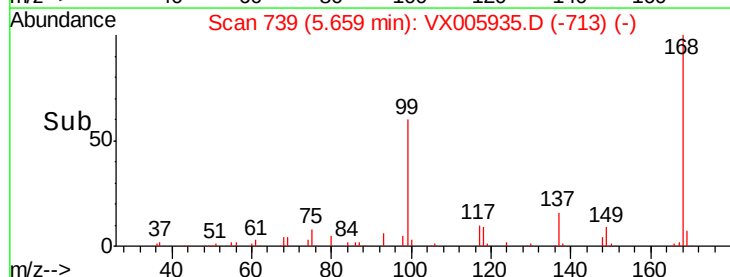
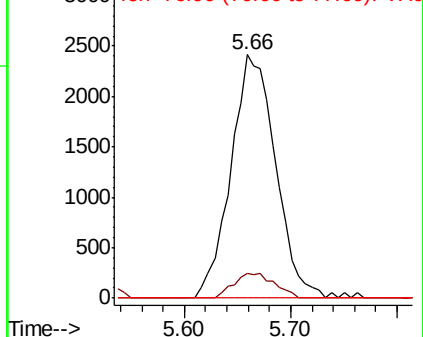
77 0.0 25.8 38.6#

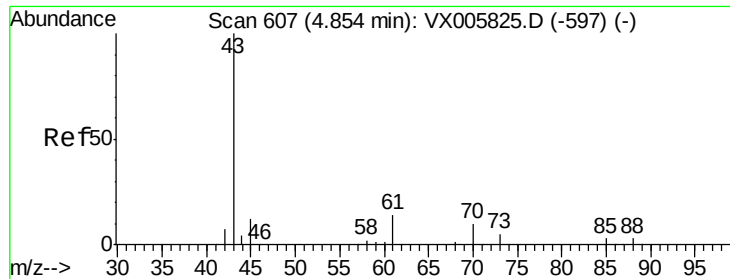


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

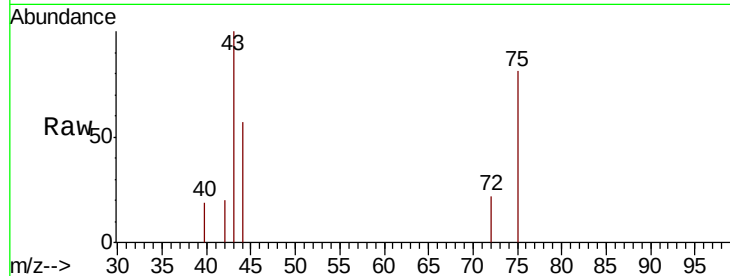




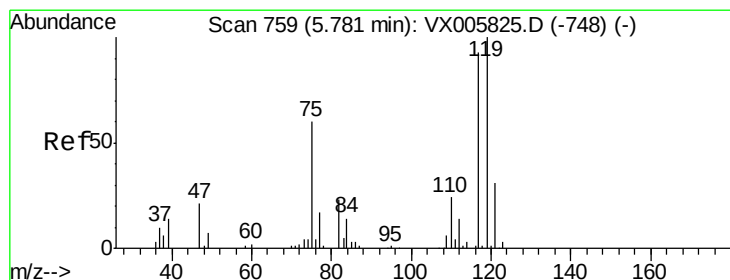
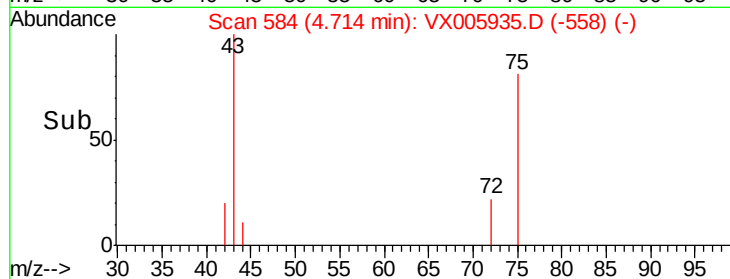
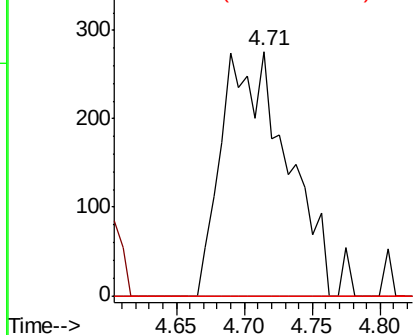
#37
Ethyl Acetate
Concen: 0.509 ug/l
RT: 4.71 min Scan# 584
Delta R.T. -0.14 min
Lab File: VX005935.D
Acq: 13 Nov 2018 07:32

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 916
Ion Ratio Lower Upper
43 100
61 0.0 10.8 16.2#
70 0.0 7.8 11.8#

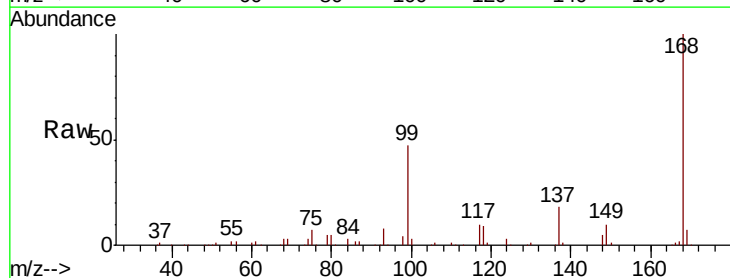


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0

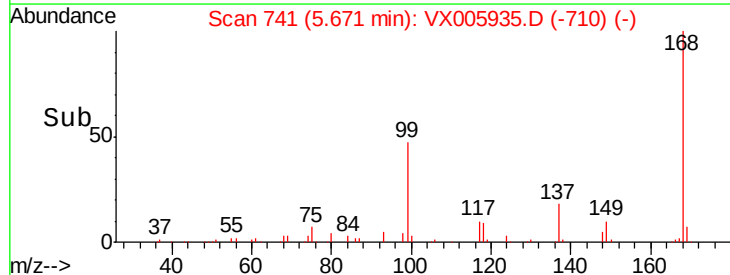
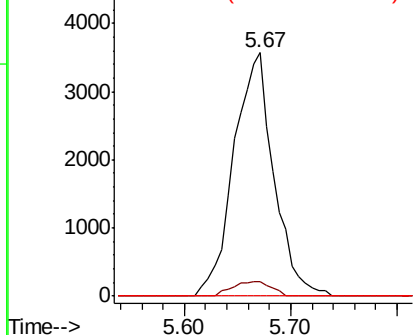


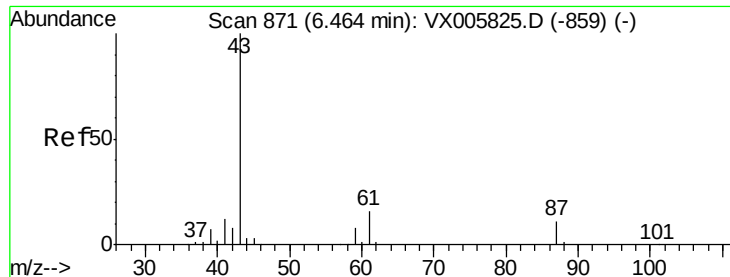
#38
Carbon Tetrachloride
Concen: 6.858 ug/l
RT: 5.67 min Scan# 741
Delta R.T. -0.11 min
Lab File: VX005935.D
Acq: 13 Nov 2018 07:32

Tgt Ion: 117 Resp: 9403
Ion Ratio Lower Upper
117 100
119 6.0 78.1 117.1#
121 0.0 24.6 36.8#



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: 2.750 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.00 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

Instrument :

MSVOA_X

ClientSampleId :

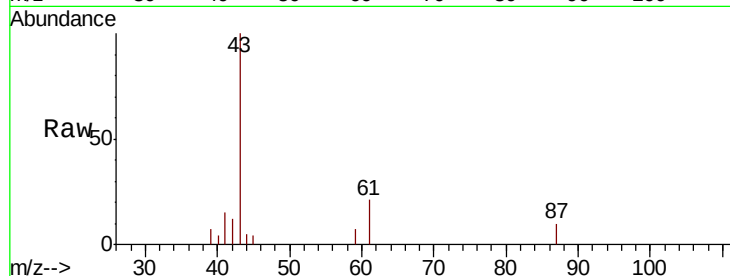
Tot Ion: 43 Resp: 7176

Ion Ratio Lower Upper

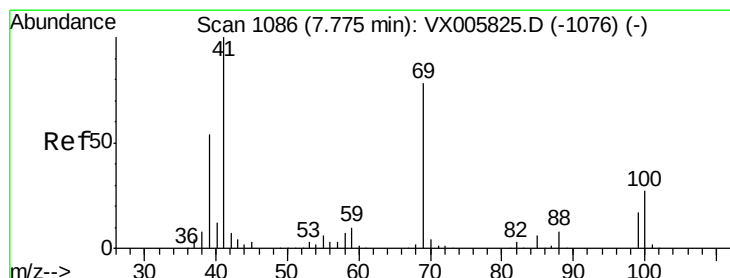
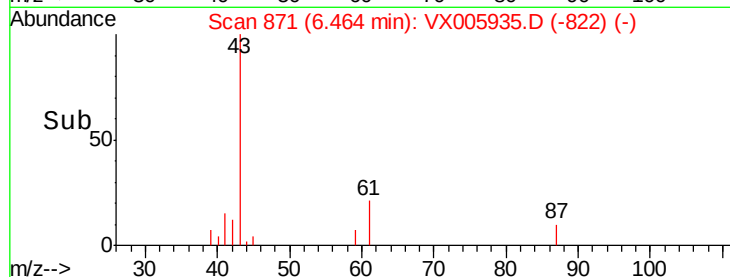
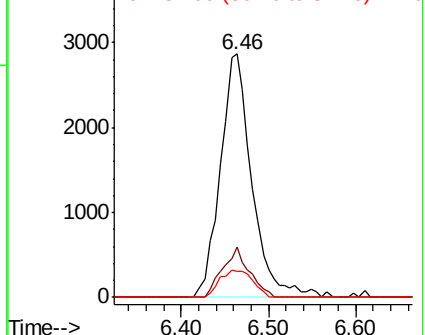
43 100

61 17.3 14.6 22.0

87 11.5 9.6 14.4



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: 3.125 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

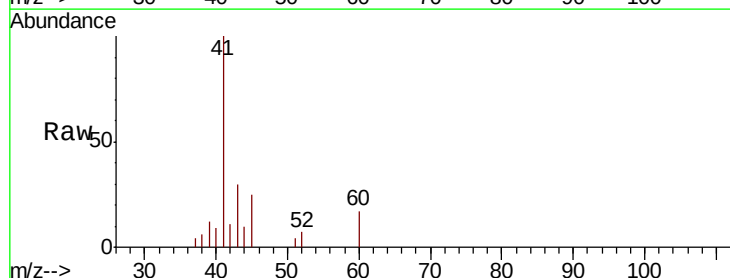
Tgt Ion: 41 Resp: 3662

Ion Ratio Lower Upper

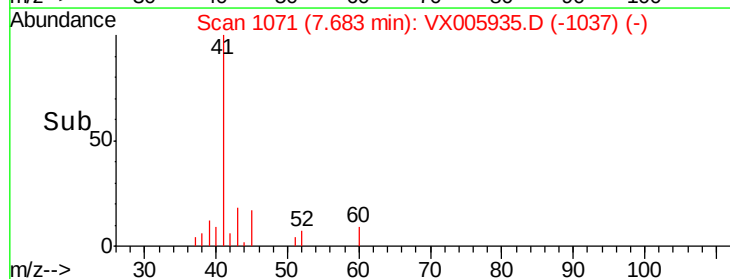
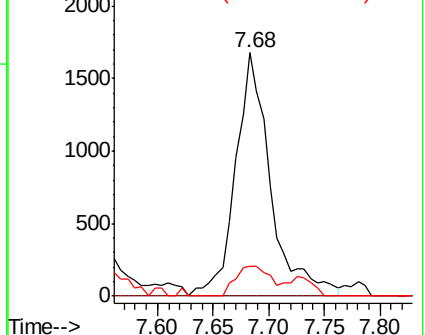
41 100

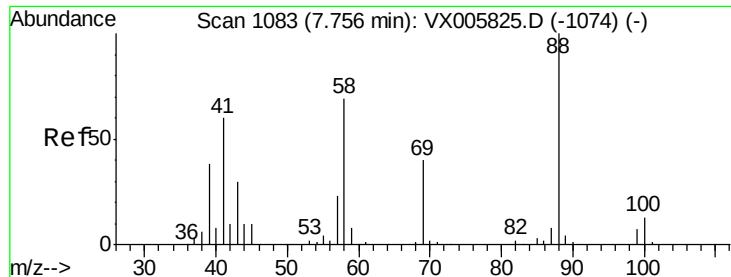
69 0.0 63.2 94.8#

39 0.0 42.2 63.2#



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

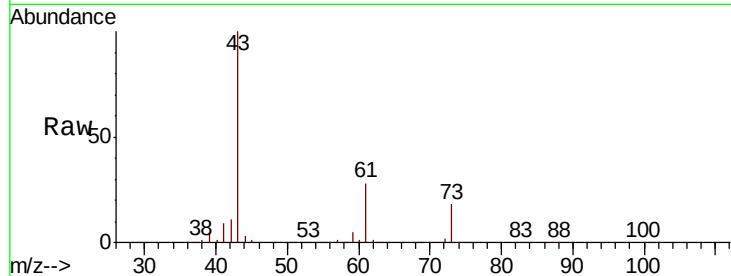




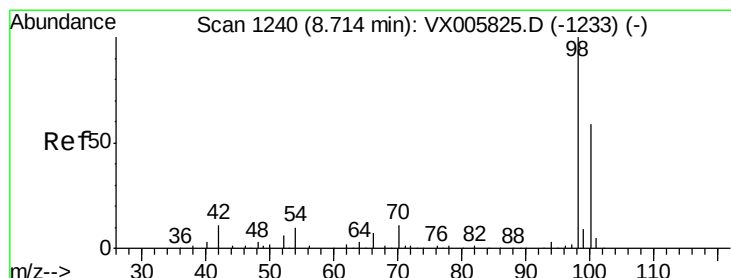
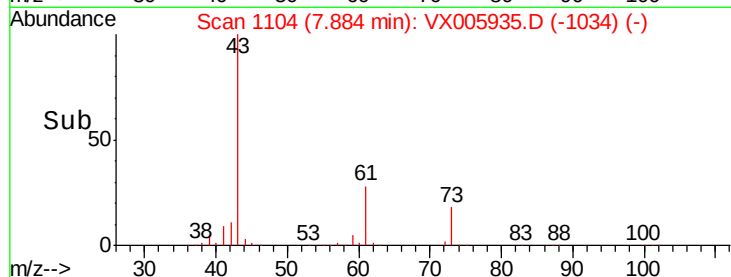
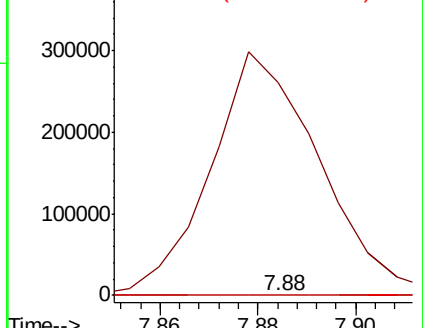
#49
1,4-Dioxane
Concen: 1.545 ug/l
RT: 7.88 min Scan# 1104
Delta R.T. 0.13 min
Lab File: VX005935.D
Acq: 13 Nov 2018 07:32

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 39
Ion Ratio Lower Upper
88 100
43 1216446.2 27.4 41.0#
58 5746.2 59.4 89.2#

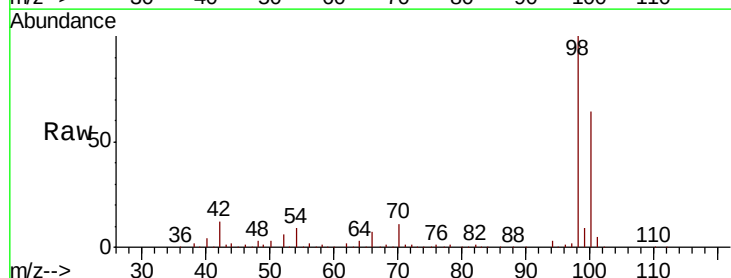


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

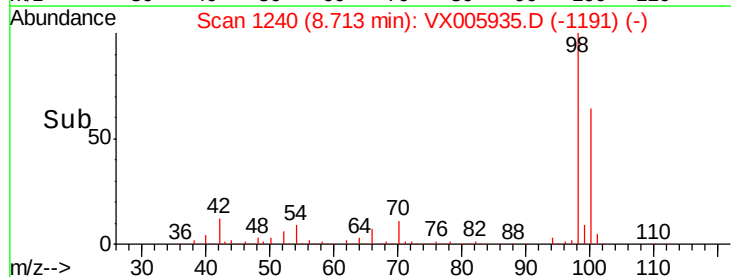
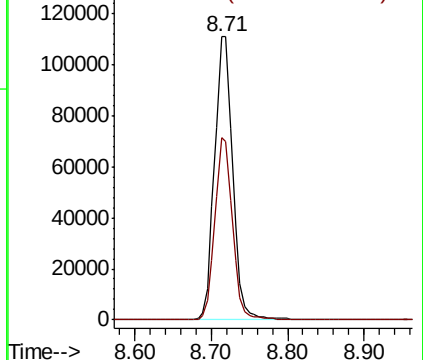


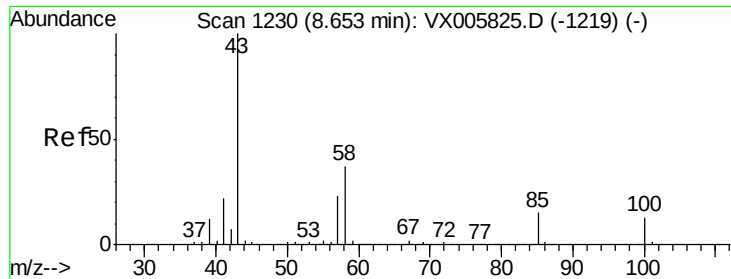
#50
Toluene-d8
Concen: 57.073 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005935.D
Acq: 13 Nov 2018 07:32

Tgt Ion: 98 Resp: 183337
Ion Ratio Lower Upper
98 100
100 62.5 51.3 76.9



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





#51

4-Methyl-2-Pentanone

Concen: 17.437 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

Instrument :

MSVOA_X

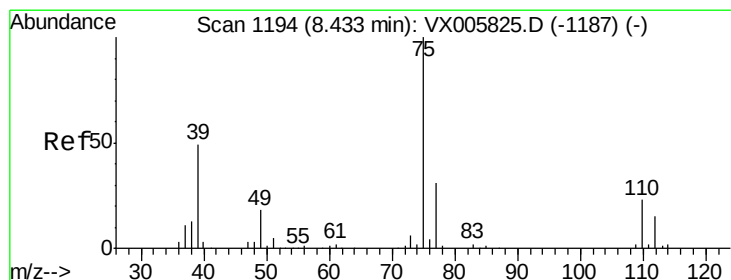
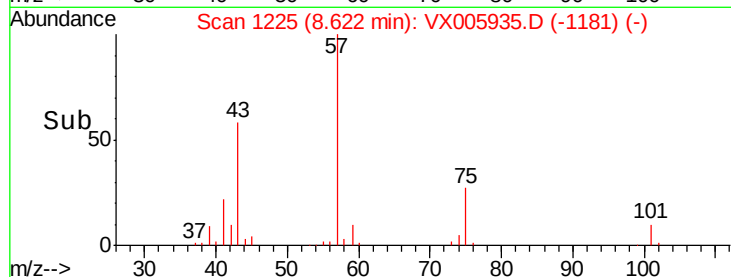
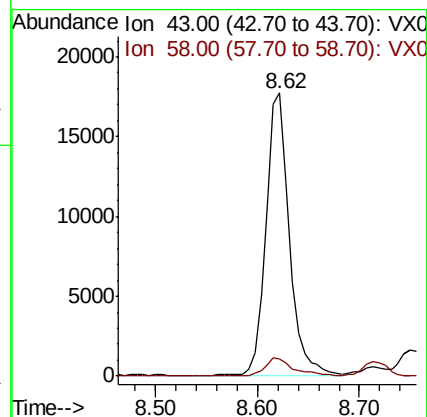
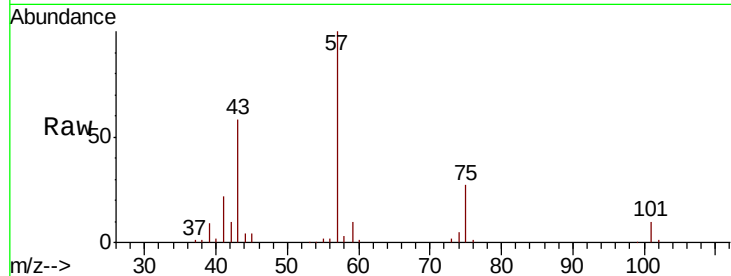
ClientSampleId :

Tot Ion: 43 Resp: 28678

Ion Ratio Lower Upper

43 100

58 7.7 29.7 44.5#



#54

cis-1,3-Dichloropropene

Concen: 8.734 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.19 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

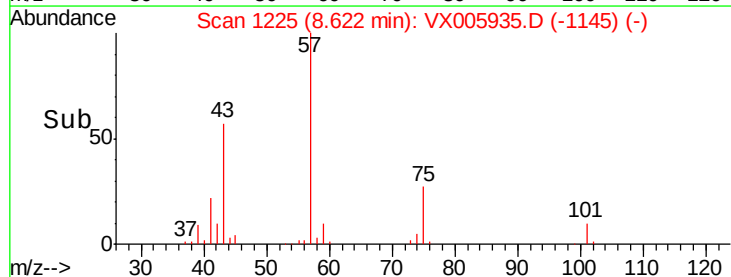
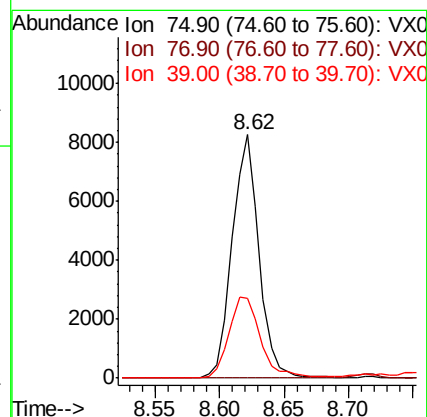
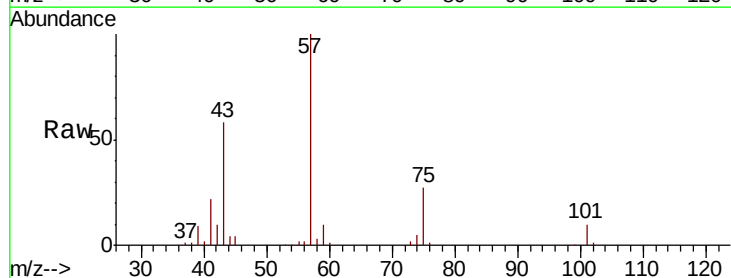
Tgt Ion: 75 Resp: 12073

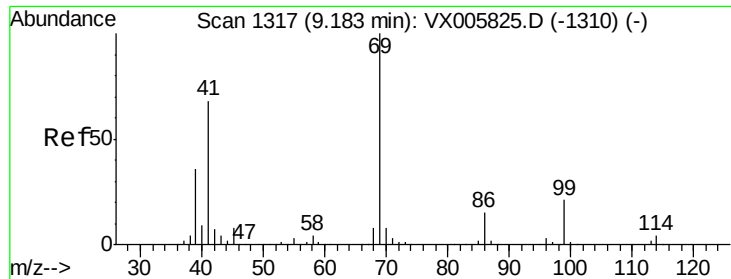
Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 32.9 38.2 57.2#





#56

Ethyl methacrylate

Concen: 0.229 ug/l

RT: 9.31 min Scan# 1338

Delta R.T. 0.13 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

Instrument :

MSVOA_X

ClientSampleId :

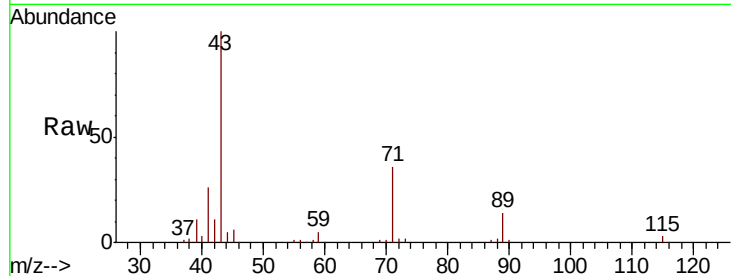
Tot Ion: 69 Resp: 340

Ion Ratio Lower Upper

69 100

41 2531.8 57.0 85.6#

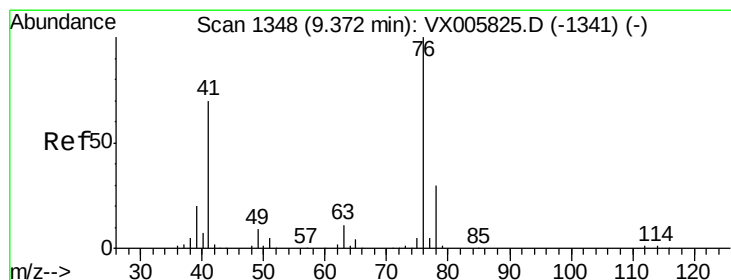
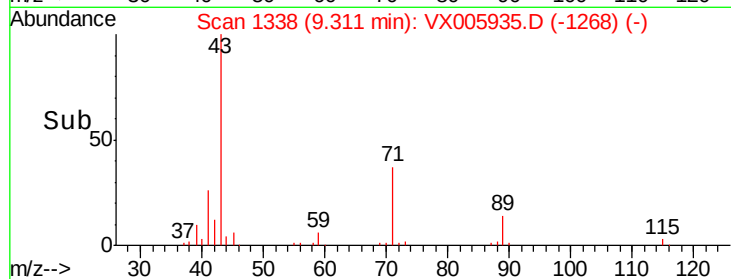
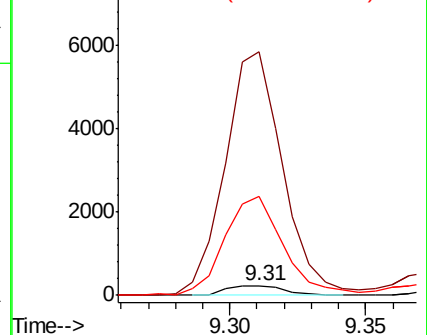
39 1052.1 28.3 42.5#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.848 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.18 min

Lab File: VX005935.D

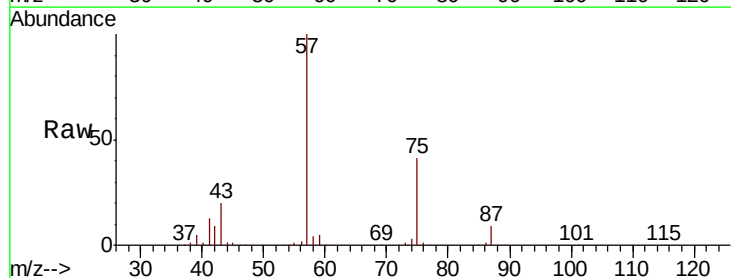
Acq: 13 Nov 2018 07:32

Tgt Ion: 76 Resp: 3088

Ion Ratio Lower Upper

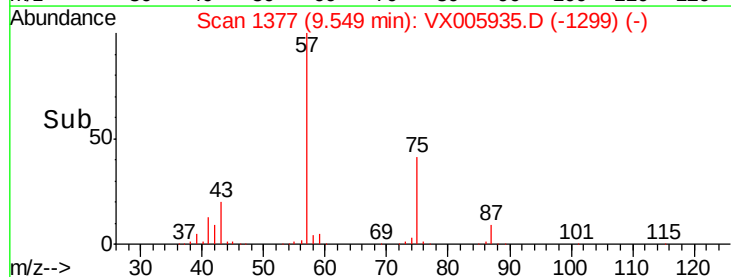
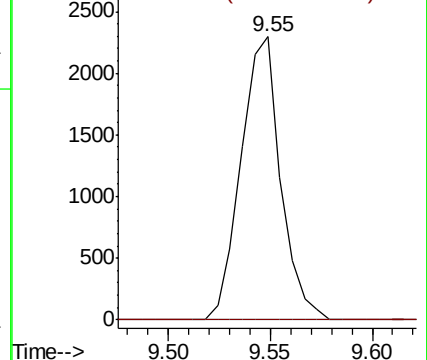
76 100

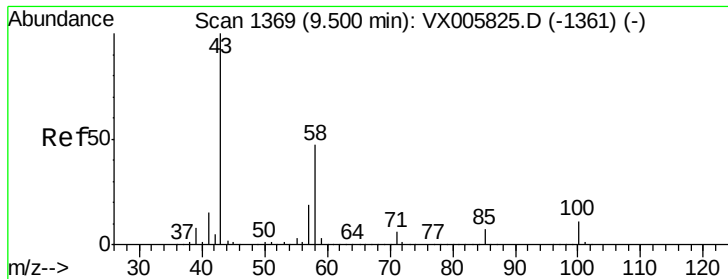
78 0.0 25.3 37.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#59

2-Hexanone

Concen: 33.372 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.04 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

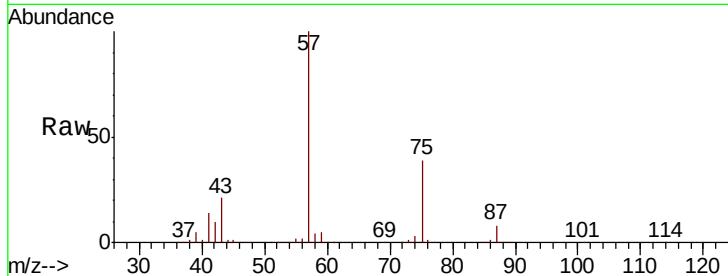
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 48379

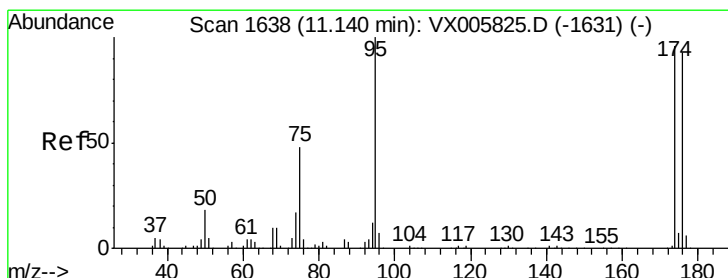
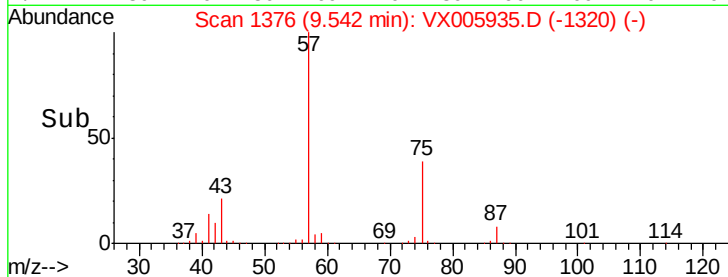
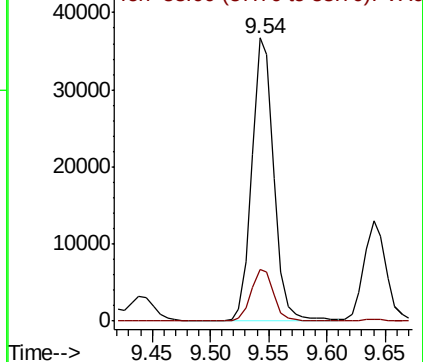
Ion Ratio Lower Upper

43 100

58 19.2 25.9 77.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 51.890 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

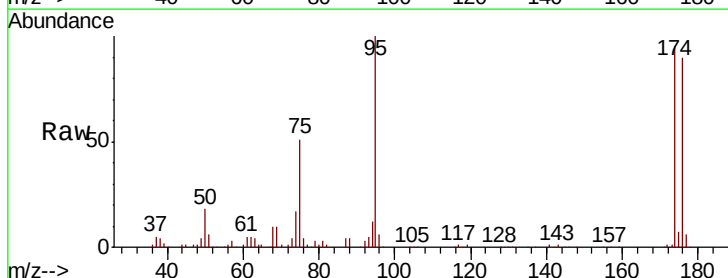
Tgt Ion: 95 Resp: 59930

Ion Ratio Lower Upper

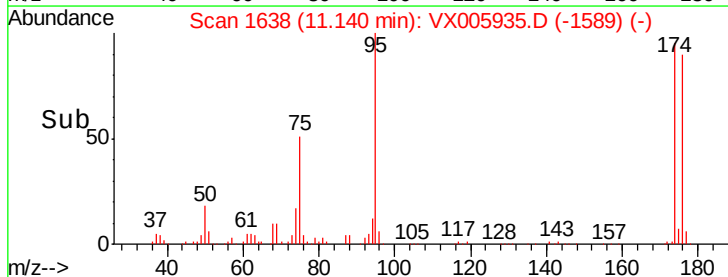
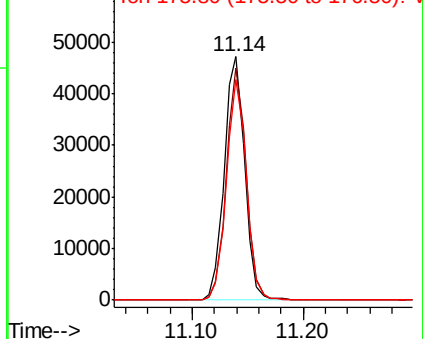
95 100

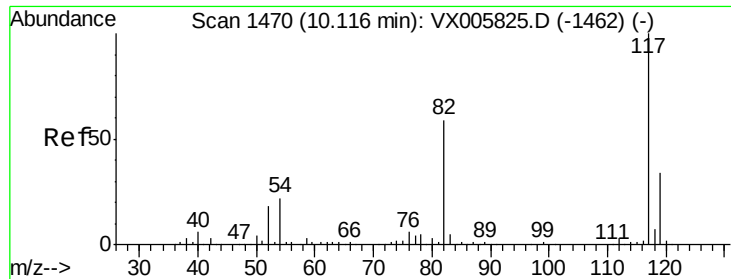
174 92.6 0.0 184.4

176 88.4 0.0 177.4



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

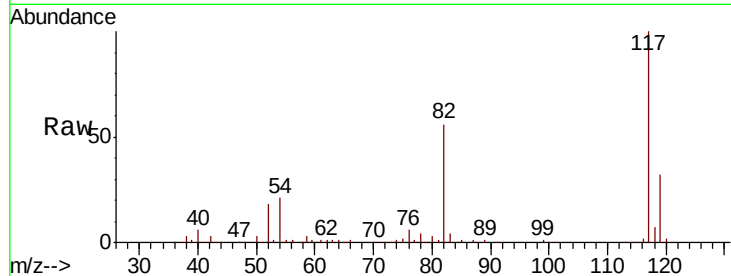




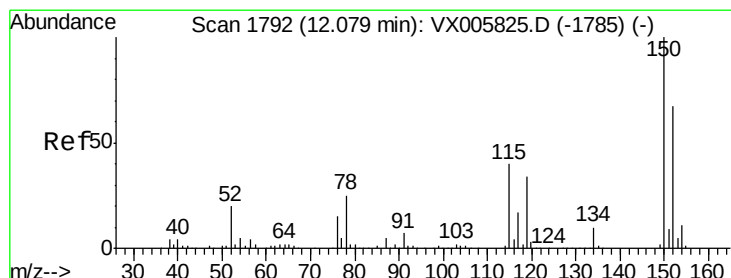
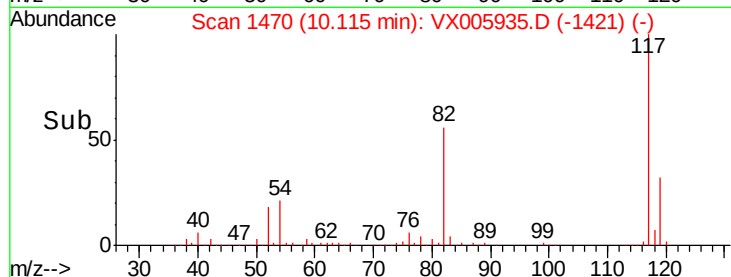
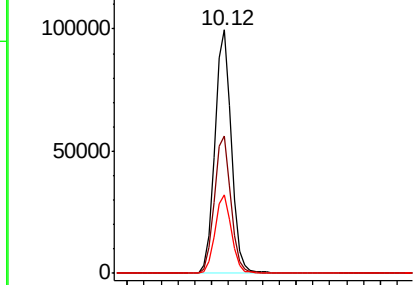
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005935.D
Acq: 13 Nov 2018 07:32

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 135587
Ion Ratio Lower Upper
117 100
82 56.3 44.1 66.1
119 32.5 26.2 39.2

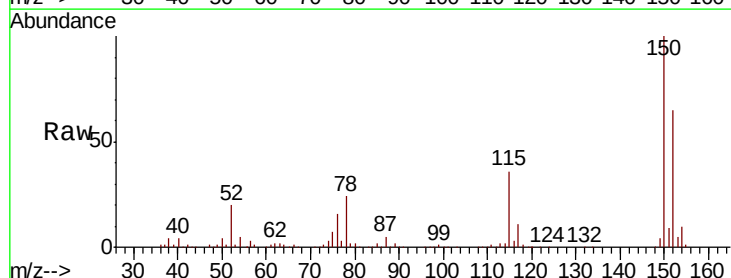


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

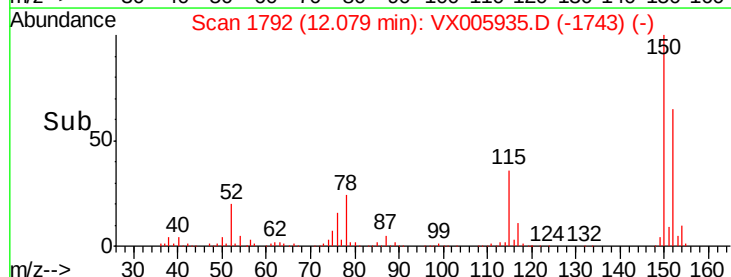
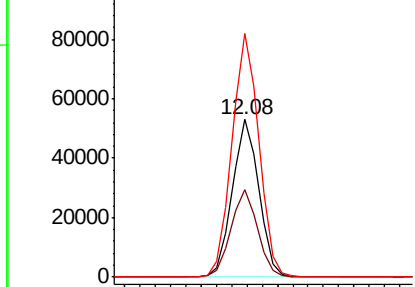


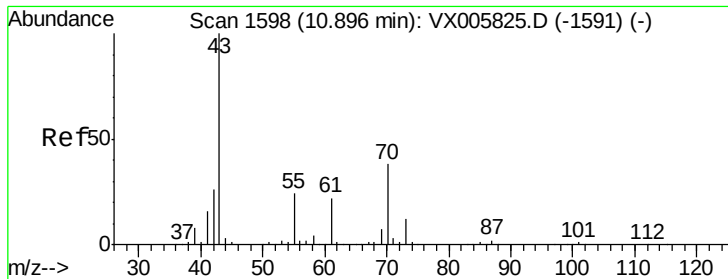
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005935.D
Acq: 13 Nov 2018 07:32

Tgt Ion:152 Resp: 63949
Ion Ratio Lower Upper
152 100
115 55.4 39.4 118.1
150 156.0 0.0 346.4



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: 1.320 ug/l

RT: 10.87 min Scan# 1594

Delta R.T. -0.02 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 148

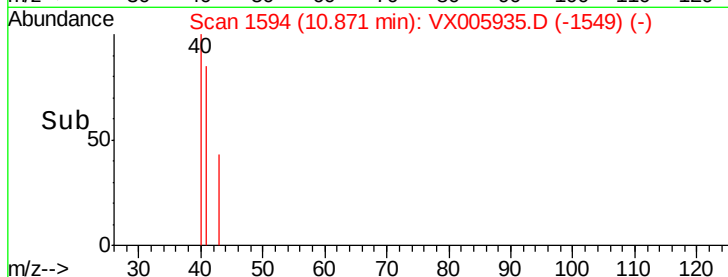
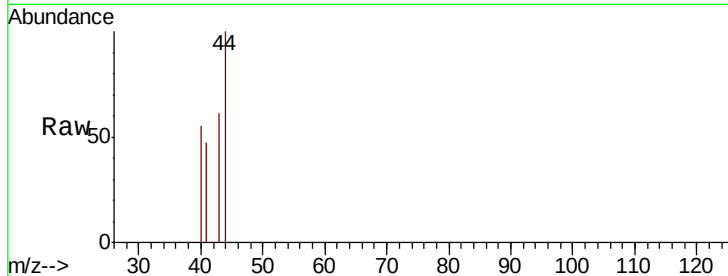
Ion Ratio Lower Upper

43 100

70 0.0 31.6 47.4#

55 0.0 19.7 29.5#

61 0.0 18.3 27.5#

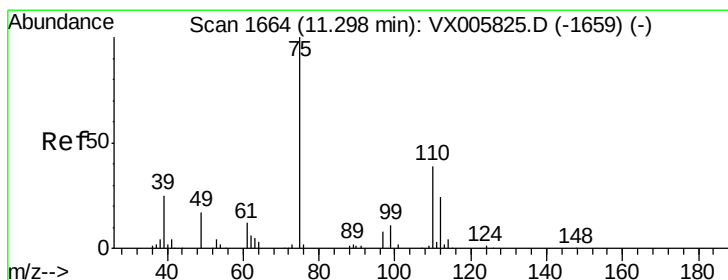
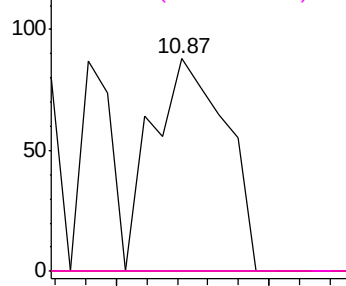


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.458 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005935.D

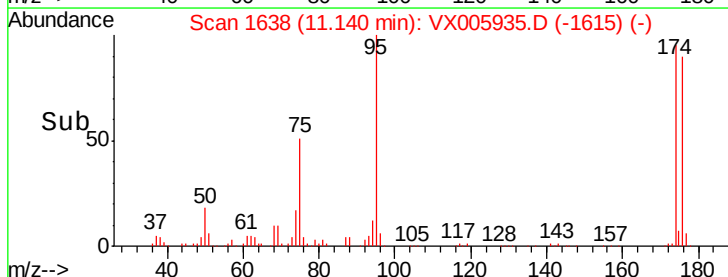
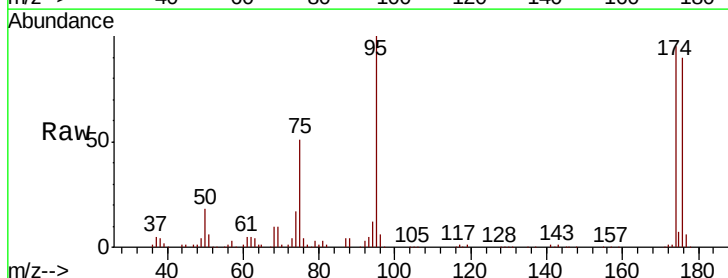
Acq: 13 Nov 2018 07:32

Tgt Ion: 75 Resp: 30545

Ion Ratio Lower Upper

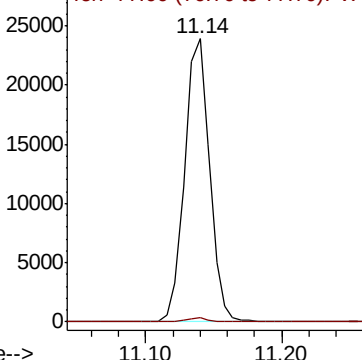
75 100

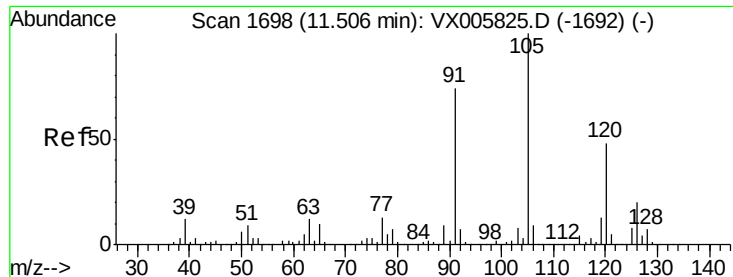
77 1.3 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

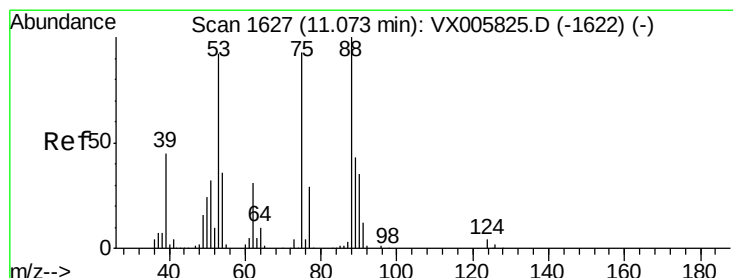
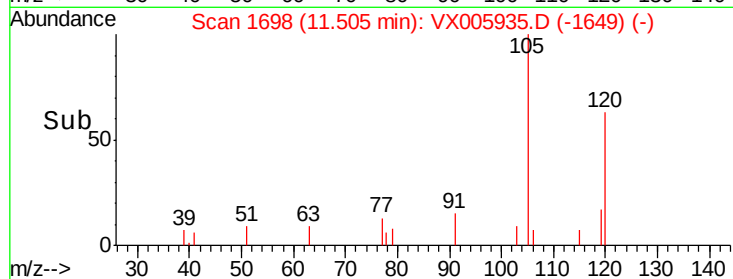
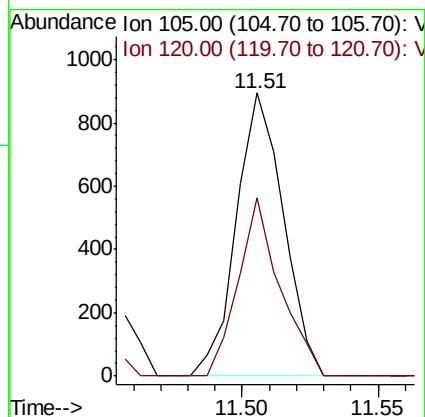
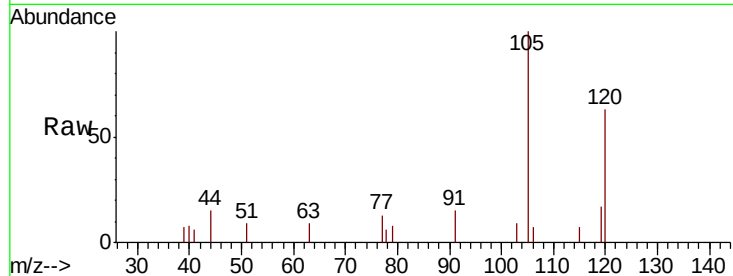




#80
 1,3,5-Trimethylbenzene
 Concen: 0.342 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX005935.D
 Acq: 13 Nov 2018 07:32

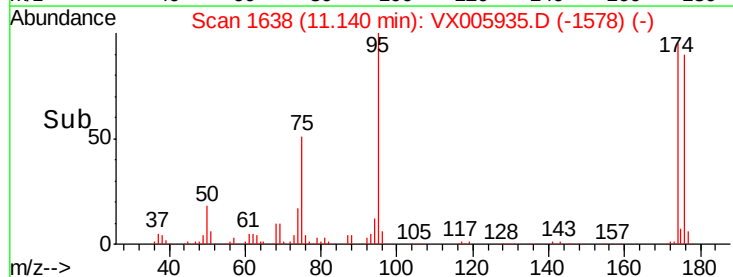
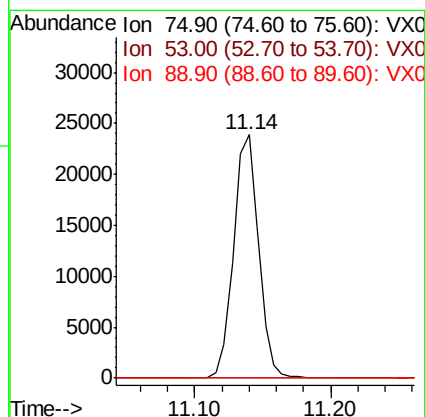
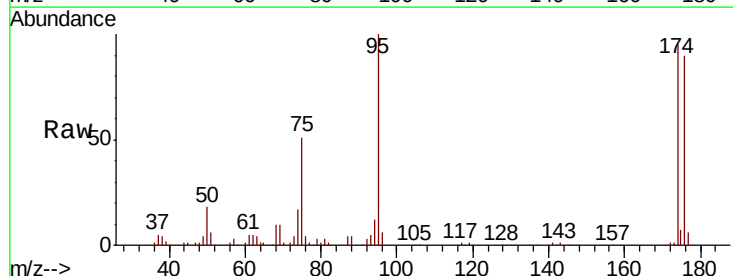
Instrument :
 MSVOA_X
 ClientSampleId :

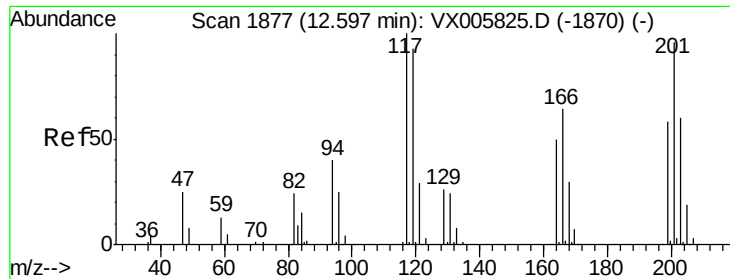
Tot Ion:105 Resp: 1076
 Ion Ratio Lower Upper
 105 100
 120 55.7 24.1 72.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.763 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005935.D
 Acq: 13 Nov 2018 07:32

Tgt Ion: 75 Resp: 30545
 Ion Ratio Lower Upper
 75 100
 53 0.1 80.2 120.2#
 89 0.0 39.8 59.8#





#90

Hexachloroethane

Concen: 0.546 ug/l

RT: 12.66 min Scan# 1888

Delta R.T. 0.07 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

Instrument :

MSVOA_X

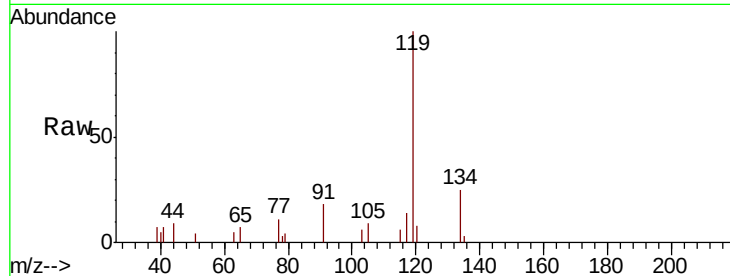
ClientSampleId :

Tot Ion:117 Resp: 314

Ion Ratio Lower Upper

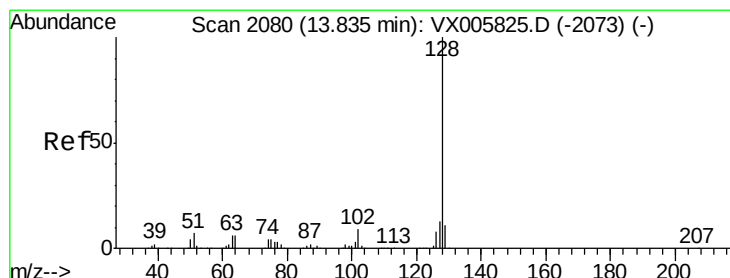
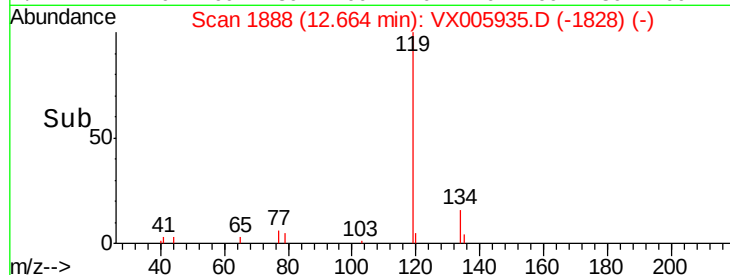
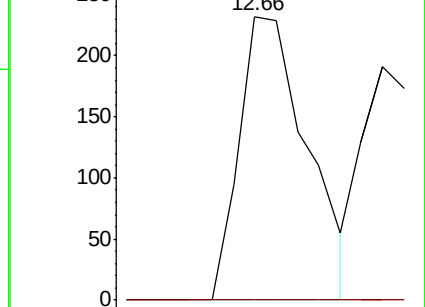
117 100

201 0.0 47.9 143.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 2.458 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005935.D

Acq: 13 Nov 2018 07:32

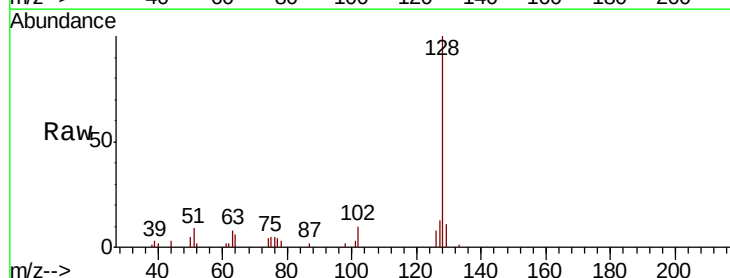
Tgt Ion:128 Resp: 6035

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

129 13.4 8.7 13.1#



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

