

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081318\
 Data File : VX004006.D
 Acq On : 13 Aug 2018 17:54
 Operator : JC/MD
 Sample : J4443-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SALEM-RD-SP

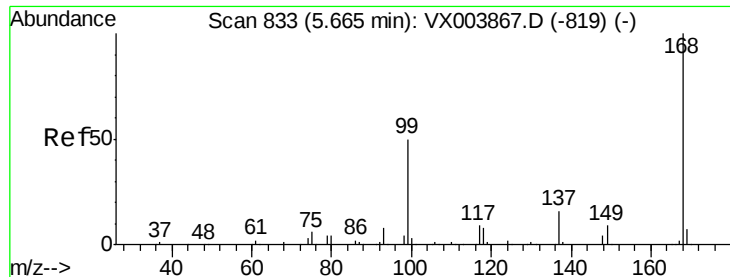
Quant Time: Aug 14 03:10:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 13 01:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	310907	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	496189	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	471094	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	257850	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	220862	53.59	ug/l	0.00
Spiked Amount			Recovery	=	107.18%	
35) Dibromofluoromethane	5.50	113	188839	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
50) Toluene-d8	8.72	98	695861	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	
62) 4-Bromofluorobenzene	11.14	95	244840	51.76	ug/l	0.00
Spiked Amount			Recovery	=	103.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	733	0.27	ug/l	85
6) Chloroethane	1.57	64	11164	4.08	ug/l #	57
11) Tert butyl alcohol	3.04	59	2241	2.26	ug/l #	90
13) Acrolein	2.29	56	258	0.47	ug/l	91
16) Acetone	2.44	43	18712	7.63	ug/l	99
18) Methyl Acetate	2.78	43	6945	1.30	ug/l	94
20) Methylene Chloride	2.86	84	45824	7.71	ug/l	95
25) 2-Butanone	4.70	43	6367	1.73	ug/l	92
29) Tetrahydrofuran	5.16	42	1929	1.02	ug/l #	59
30) Chloroform	5.22	83	6717	1.02	ug/l	97
31) Cyclohexane	5.57	56	1227	0.21	ug/l #	66
36) 1,1-Dichloropropene	5.67	75	20899	3.76	ug/l #	49
38) Carbon Tetrachloride	5.67	117	27359	5.17	ug/l #	15
43) Isopropyl Acetate	6.46	43	175192	19.04	ug/l	100
47) Bromodichloromethane	7.90	83	1800	0.34	ug/l #	91
51) 4-Methyl-2-Pentanone	8.62	43	4222	0.55	ug/l #	47
54) cis-1,3-Dichloropropene	8.62	75	1458	0.23	ug/l #	67
59) 2-Hexanone	9.55	43	12696	2.23	ug/l #	53
68) m/p-Xylenes	10.36	106	4533	0.58	ug/l	100
74) N-amyl acetate	6.46	43	175192	17.66	ug/l #	100
76) 1,2,3-Trichloropropane	11.14	75	116746	20.50	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	116746	62.47	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	6006	0.38	ug/l	97
95) Naphthalene	13.83	128	84995	4.43	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX004006.D

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MSVOA_X

ClientSampleId :

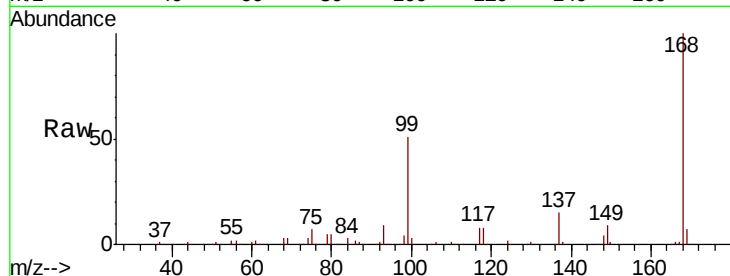
SALEM-RD-SP

Tot Ion:168 Resp: 310907

Ion Ratio Lower Upper

168 100

99 50.7 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

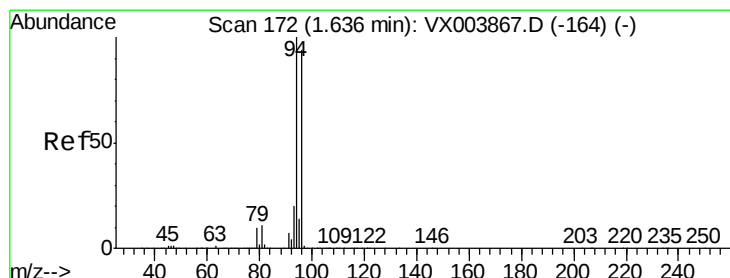
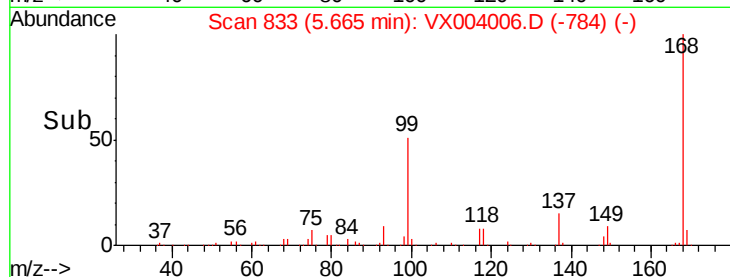
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.27 ug/l

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX004006.D

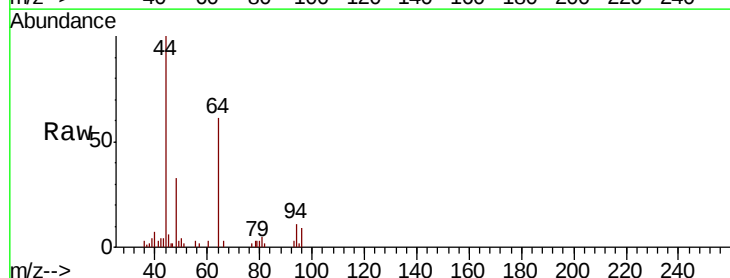
Acq: 13 Aug 2018 17:54

Tgt Ion: 94 Resp: 733

Ion Ratio Lower Upper

94 100

96 79.5 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

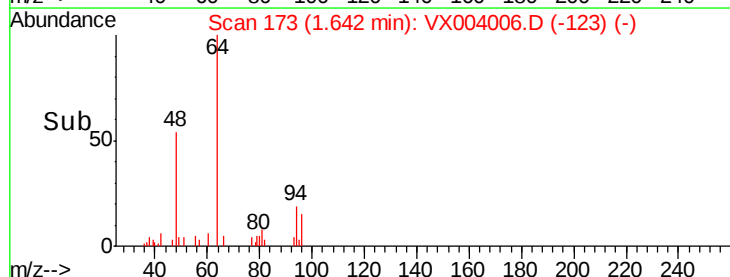
300

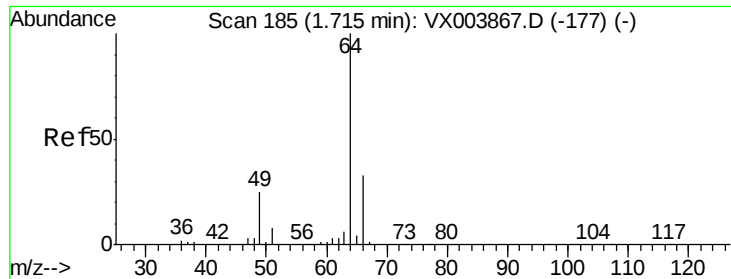
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 4.08 ug/l

RT: 1.57 min Scan# 162

Delta R.T. -0.14 min

Lab File: VX004006.D

Acq: 13 Aug 2018 17:54

Instrument :

MSVOA_X

ClientSampleId :

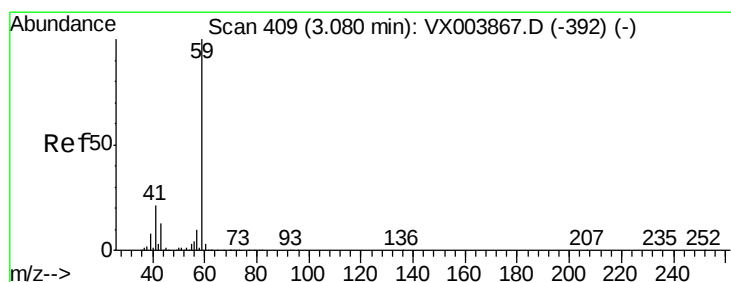
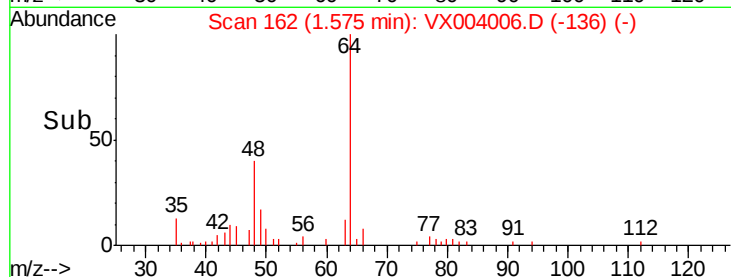
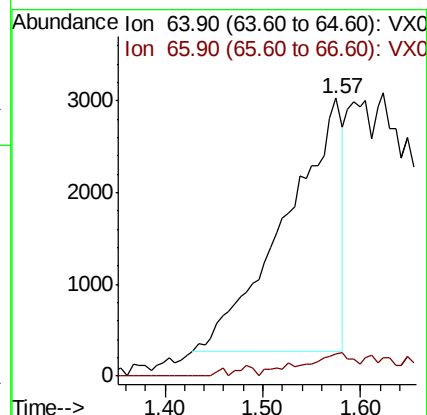
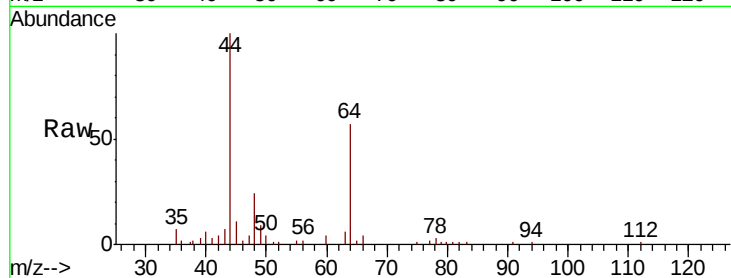
SALEM-RD-SP

Tot Ion: 64 Resp: 11164

Ion Ratio Lower Upper

64 100

66 8.7 26.5 39.7#



#11

Tert butyl alcohol

Concen: 2.26 ug/l

RT: 3.04 min Scan# 402

Delta R.T. -0.04 min

Lab File: VX004006.D

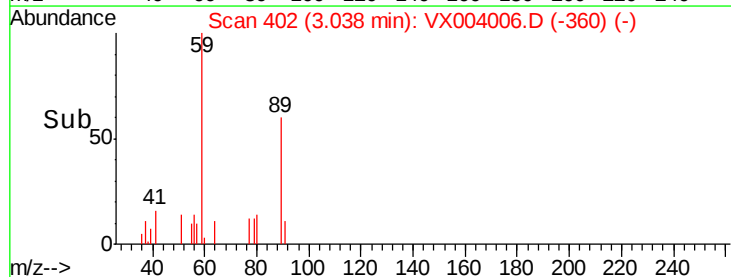
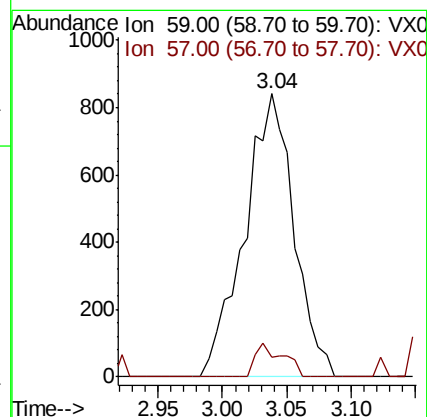
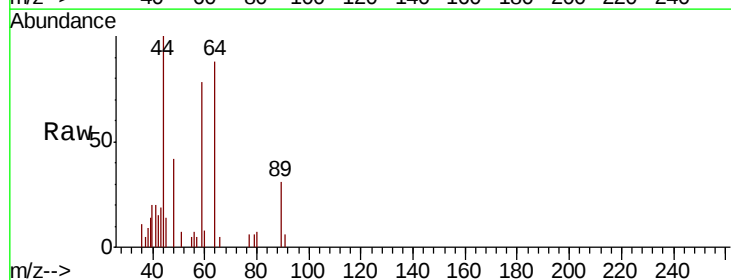
Acq: 13 Aug 2018 17:54

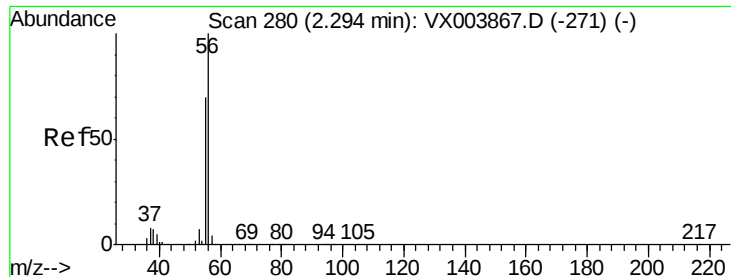
Tgt Ion: 59 Resp: 2241

Ion Ratio Lower Upper

59 100

57 6.6 8.1 12.1#





#13

Acrolein

Concen: 0.47 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX004006.D

Acq: 13 Aug 2018 17:54

Instrument :

MSVOA_X

ClientSampled :

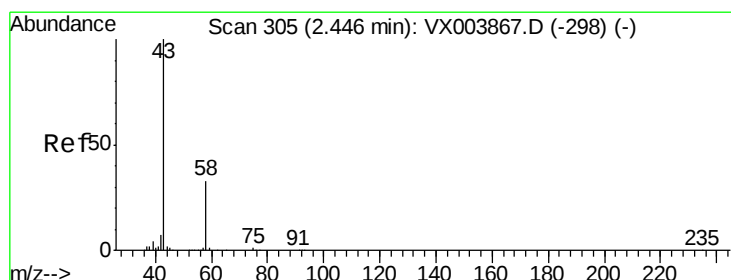
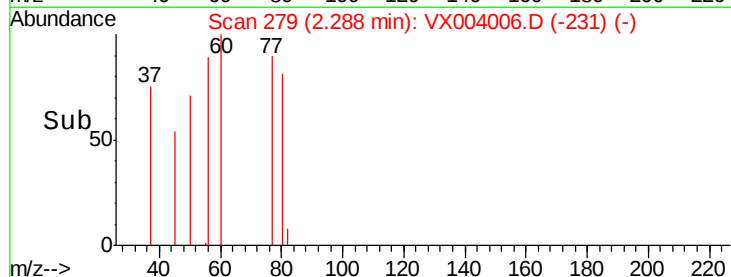
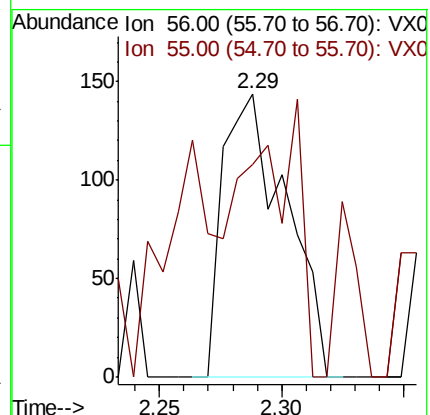
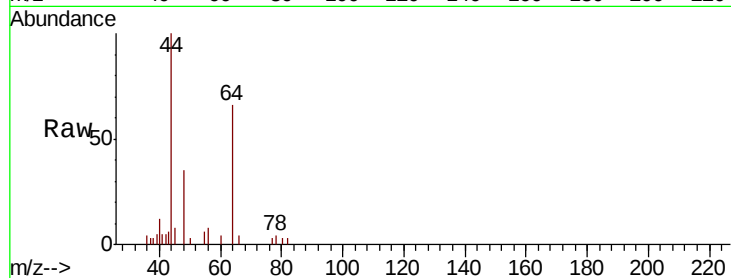
SALEM-RD-SP

Tot Ion: 56 Resp: 258

Ion Ratio Lower Upper

56 100

55 77.5 56.1 84.1



#16

Acetone

Concen: 7.63 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX004006.D

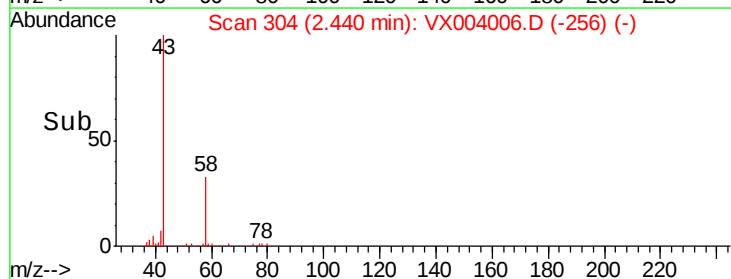
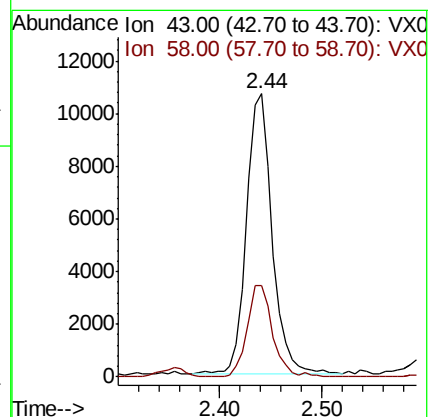
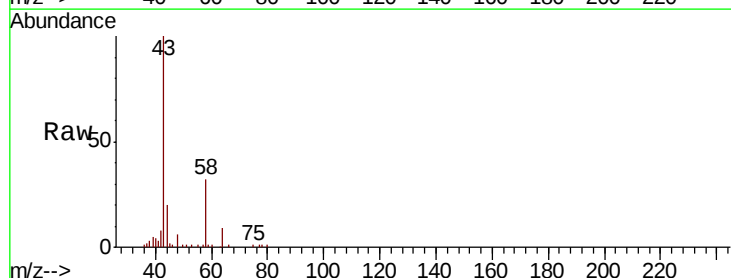
Acq: 13 Aug 2018 17:54

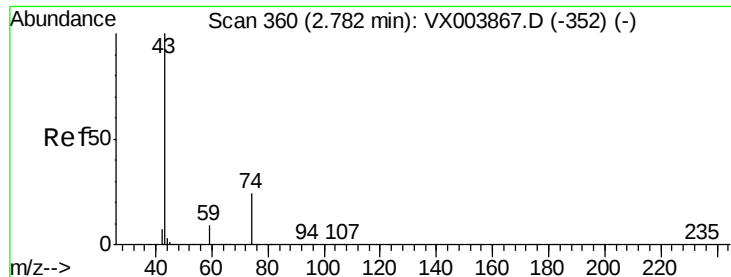
Tgt Ion: 43 Resp: 18712

Ion Ratio Lower Upper

43 100

58 32.6 26.4 39.6

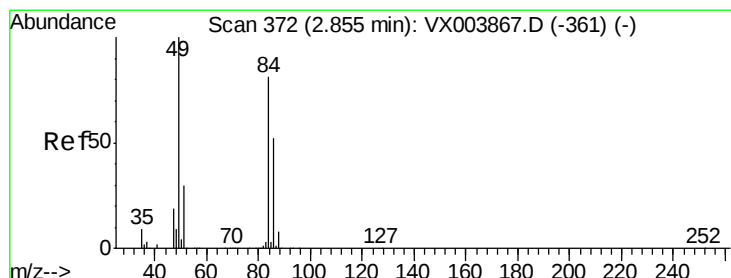
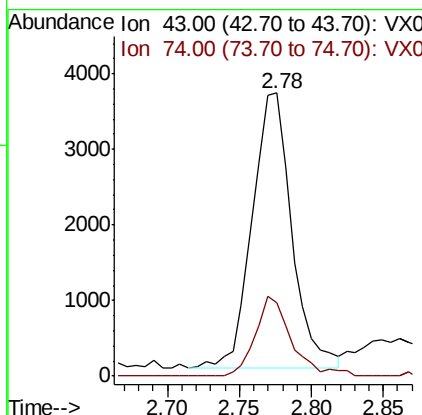
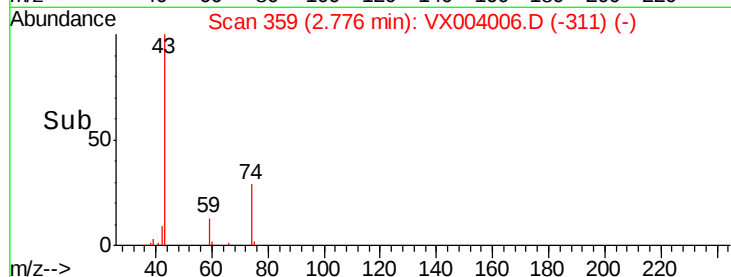
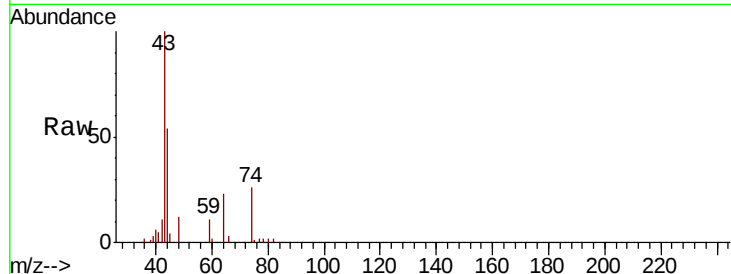




#18
Methvl Acetate
Concen: 1.30 ug/l
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX004006.D
Acq: 13 Aug 2018 17:54

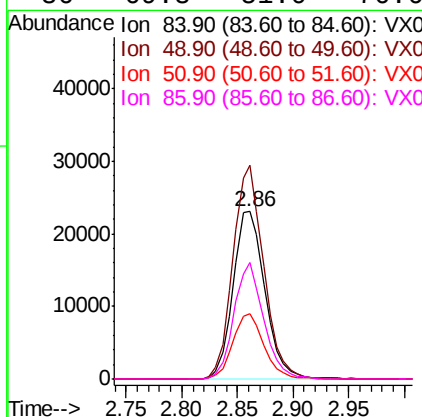
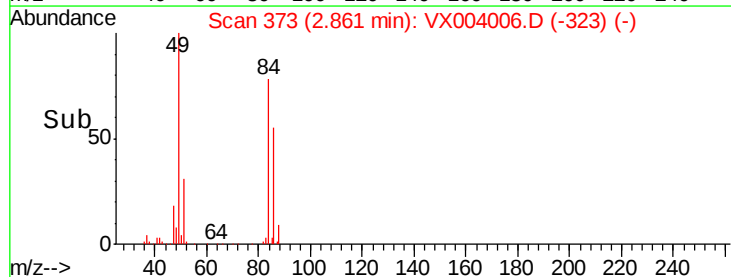
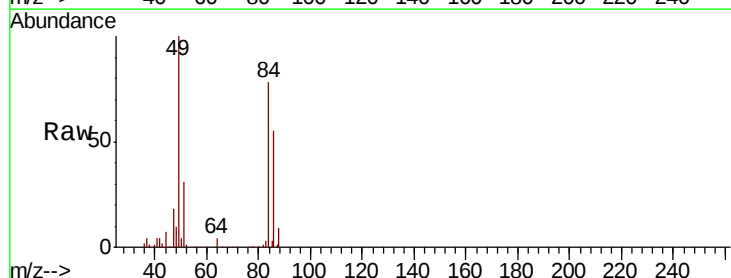
Instrument :
MSVOA_X
ClientSampleId :
SALEM-RD-SP

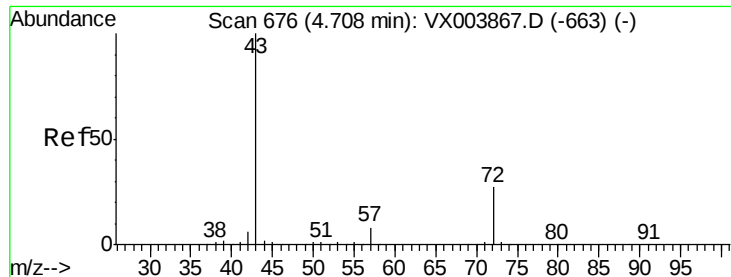
Tot Ion: 43 Resp: 6945
Ion Ratio Lower Upper
43 100
74 26.5 18.9 28.3



#20
Methylene Chloride
Concen: 7.71 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX004006.D
Acq: 13 Aug 2018 17:54

Tgt Ion: 84 Resp: 45824
Ion Ratio Lower Upper
84 100
49 127.5 98.9 148.3
51 39.2 29.9 44.9
86 69.8 51.0 76.6





#25

2-Butanone

Concen: 1.73 ug/l

RT: 4.70 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX004006.D

Acq: 13 Aug 2018 17:54

Instrument :

MSVOA_X

ClientSampleId :

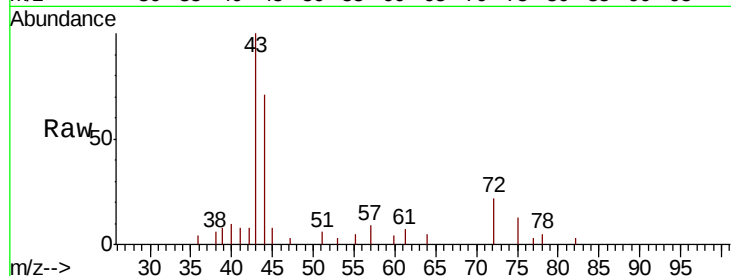
SALEM-RD-SP

Tot Ion: 43 Resp: 6367

Ion Ratio Lower Upper

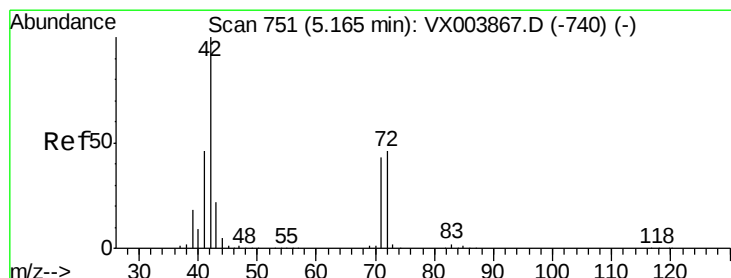
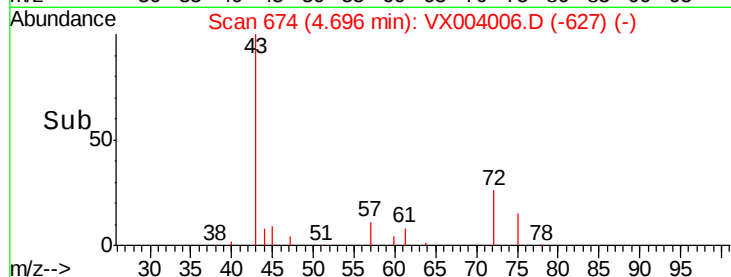
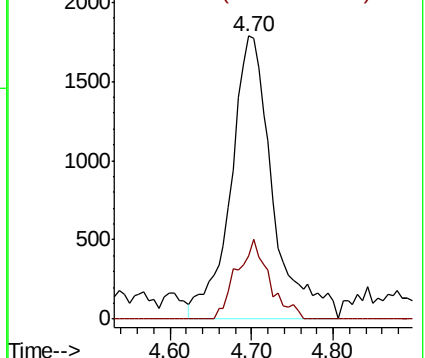
43 100

72 22.4 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 1.02 ug/l

RT: 5.16 min Scan# 750

Delta R.T. -0.01 min

Lab File: VX004006.D

Acq: 13 Aug 2018 17:54

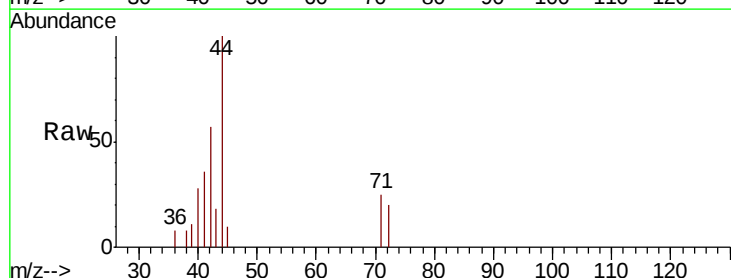
Tgt Ion: 42 Resp: 1929

Ion Ratio Lower Upper

42 100

72 0.0 37.7 56.5#

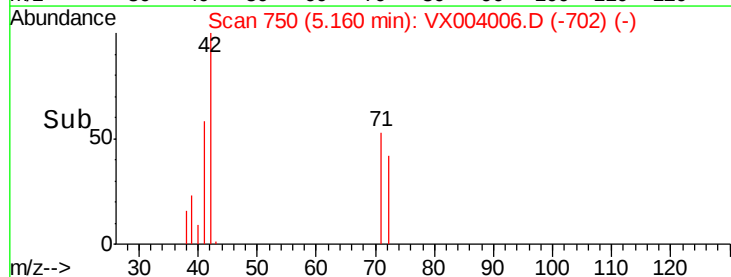
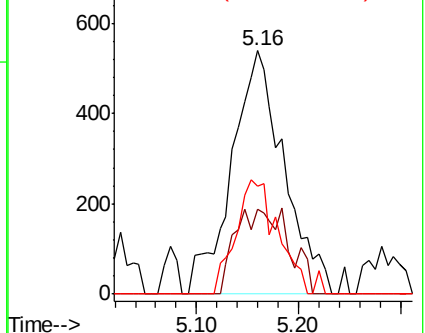
71 37.4 35.0 52.6

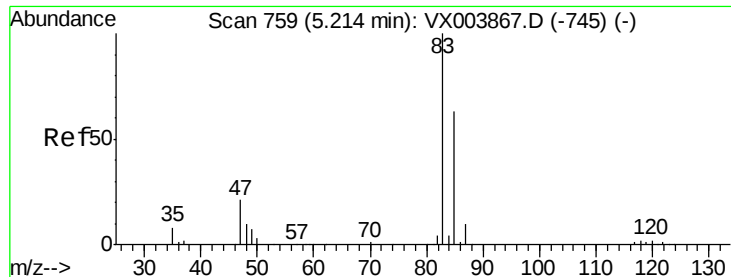


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

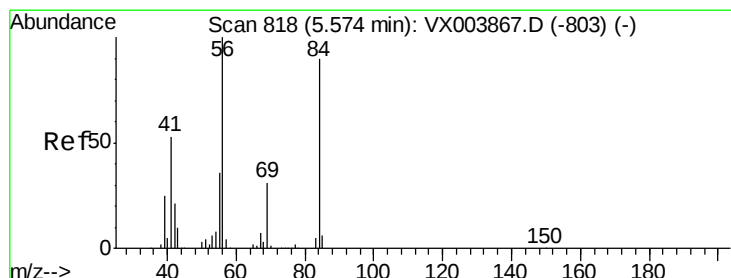
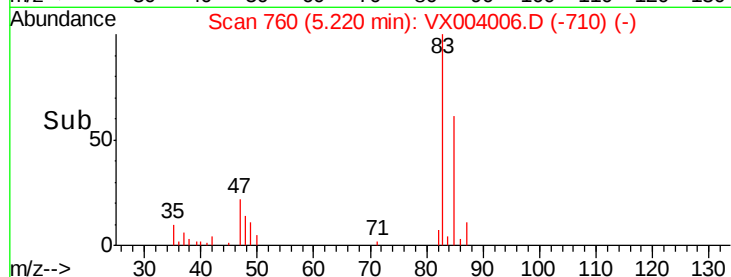
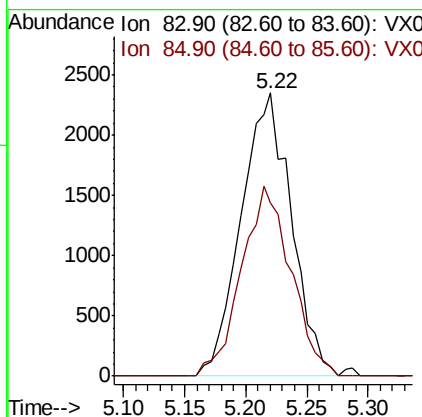
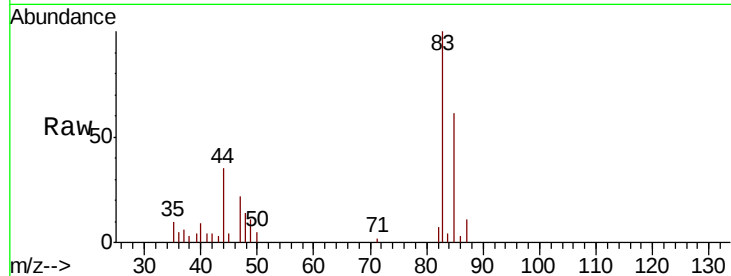




#30
Chloroform
Concen: 1.02 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.01 min
Lab File: VX004006.D
Acq: 13 Aug 2018 17:54

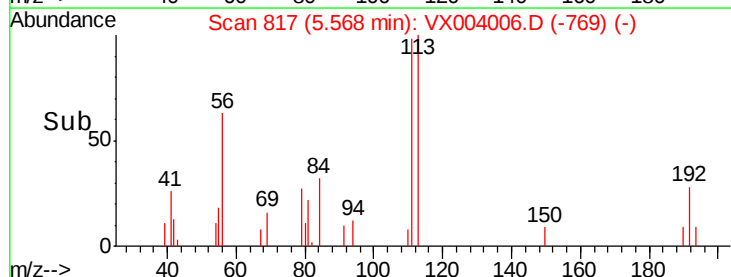
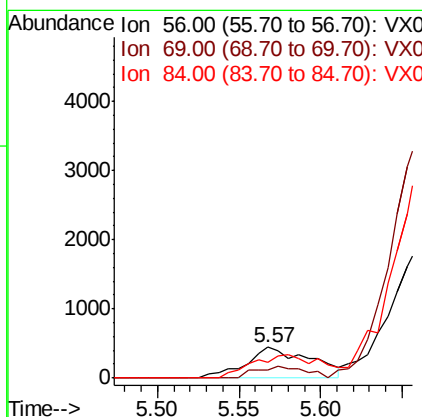
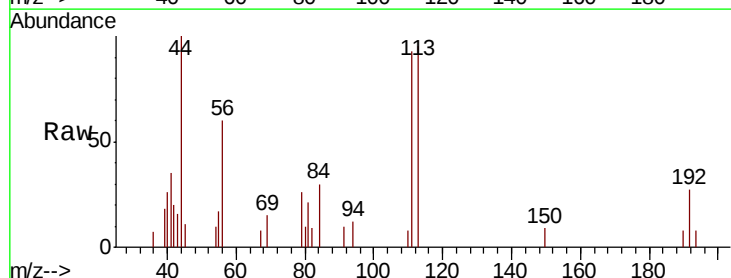
Instrument :
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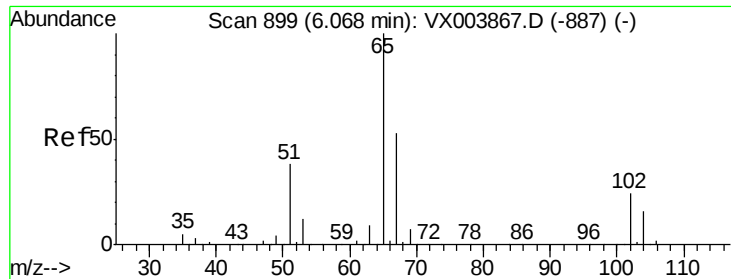
Tot Ion: 83 Resp: 6717
Ion Ratio Lower Upper
83 100
85 61.3 50.7 76.1



#31
Cyclohexane
Concen: 0.21 ug/l
RT: 5.57 min Scan# 817
Delta R.T. -0.01 min
Lab File: VX004006.D
Acq: 13 Aug 2018 17:54

Tgt Ion: 56 Resp: 1227
Ion Ratio Lower Upper
56 100
69 25.2 24.9 37.3
84 50.1 71.7 107.5#

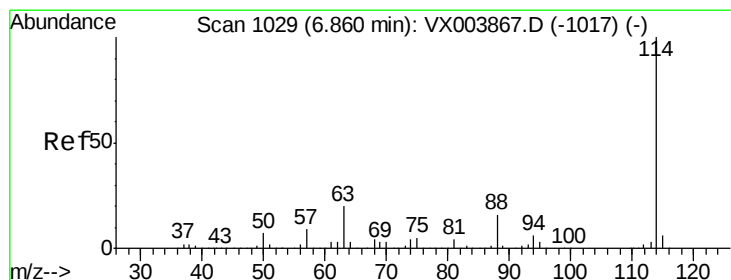
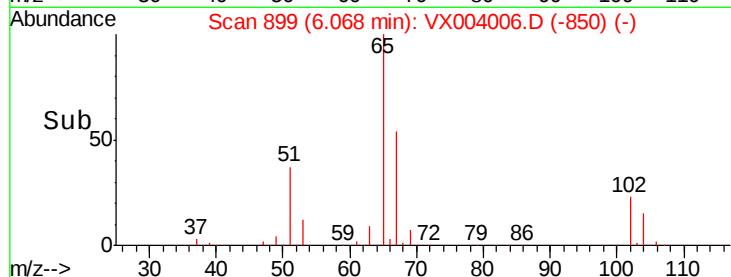
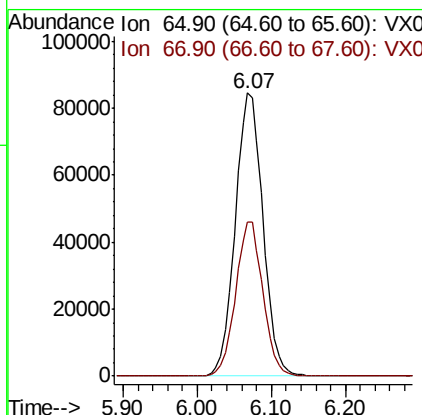
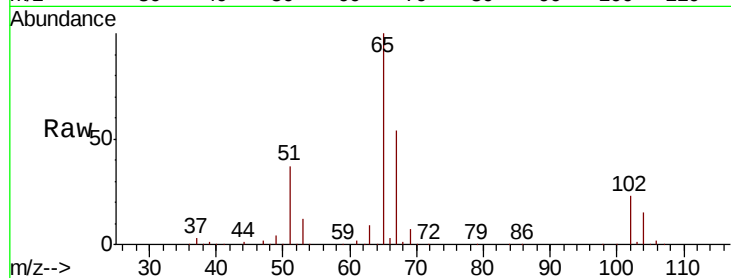




#33
 1,2-Dichloroethane-d4
 Concen: 53.59 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX004006.D
 Acq: 13 Aug 2018 17:54

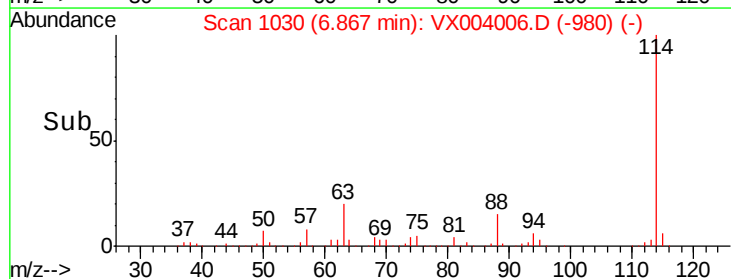
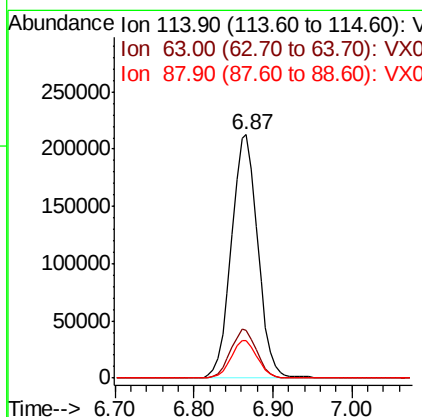
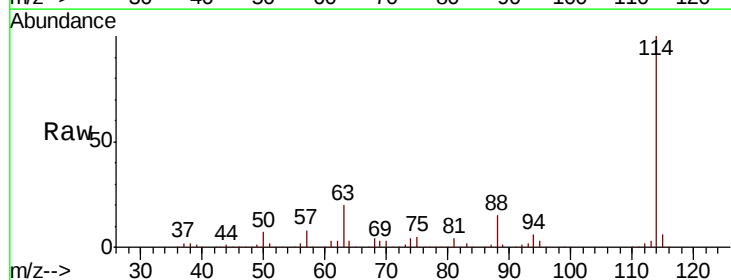
Instrument :
 MSVOA_X
 ClientSampleId :
 SALEM-RD-SP

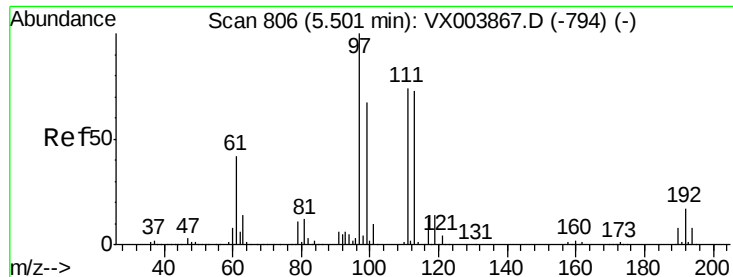
Tot Ion: 65 Resp: 220862
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VX004006.D
 Acq: 13 Aug 2018 17:54

Tgt Ion: 114 Resp: 496189
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.0
 88 15.2 0.0 32.0

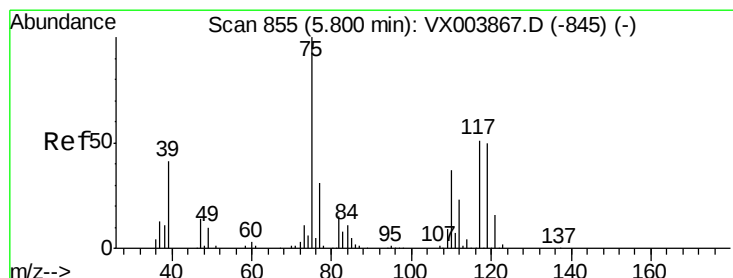
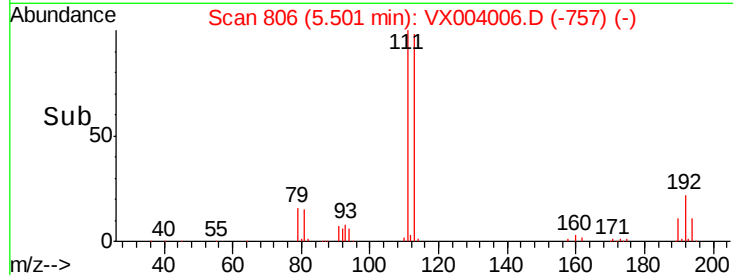
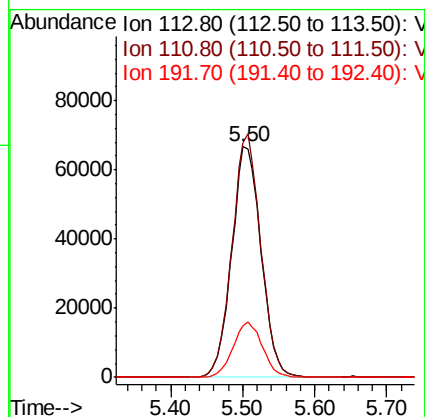
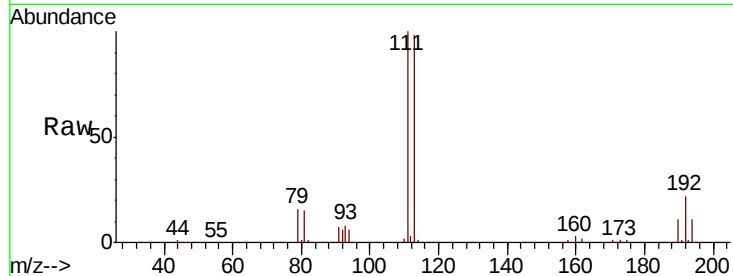




#35
 Dibromofluoromethane
 Concen: 50.24 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX004006.D
 Acq: 13 Aug 2018 17:54

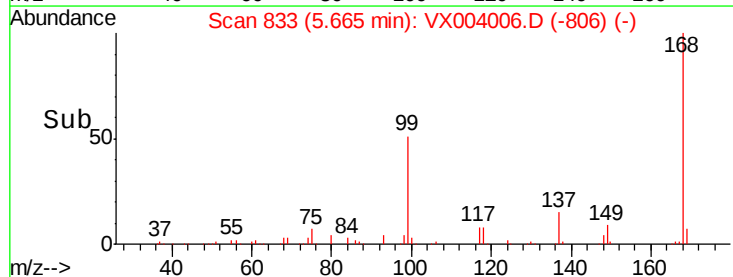
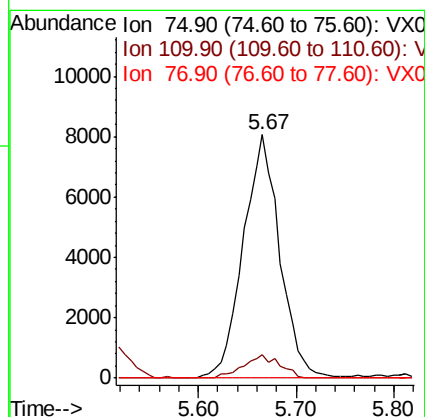
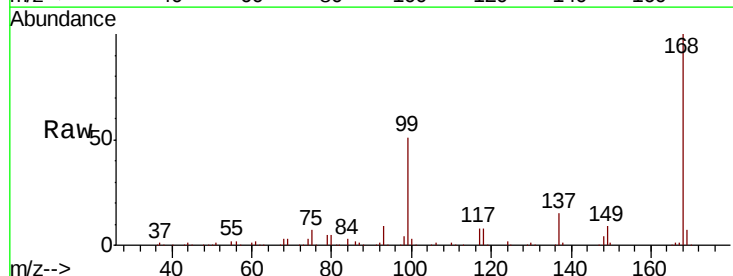
Instrument :
 MSVOA_X
 ClientSampleId :
 SALEM-RD-SP

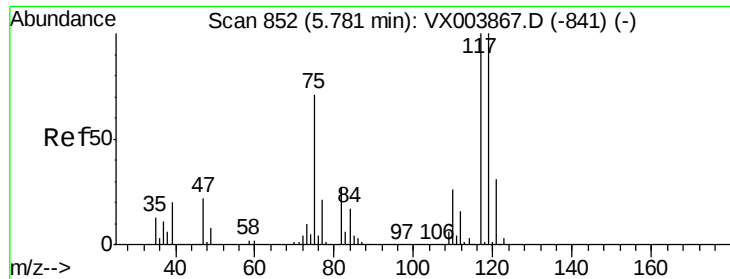
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.0	123.0
192	23.7	19.0	28.4



#36
 1,1-Dichloropropene
 Concen: 3.76 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX004006.D
 Acq: 13 Aug 2018 17:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.2	54.6#
77	0.0	25.0	37.4#

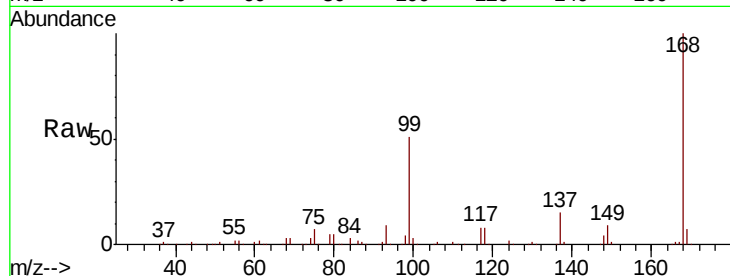




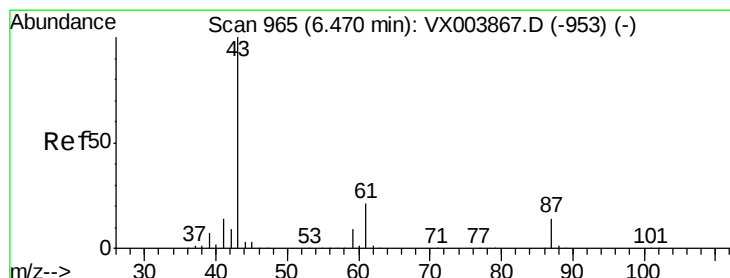
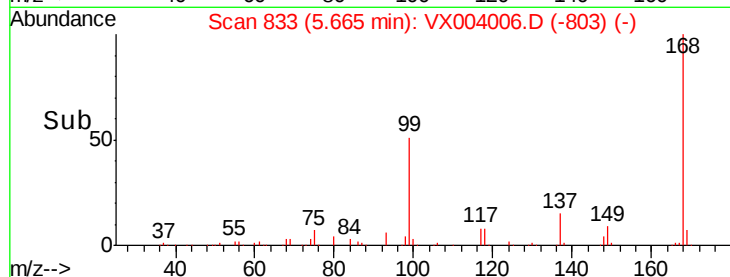
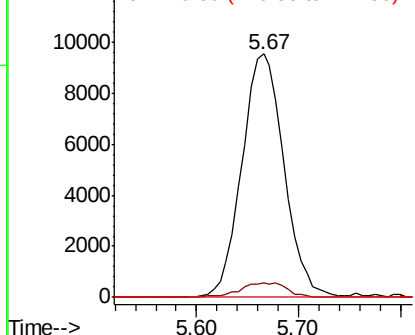
#38
Carbon Tetrachloride
Concen: 5.17 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX004006.D
Acq: 13 Aug 2018 17:54

Instrument :
MSVOA_X
ClientSampleId :
SALEM-RD-SP

Tot Ion:117 Resp: 27359
Ion Ratio Lower Upper
117 100
119 5.8 79.5 119.3#
121 0.0 25.0 37.4#

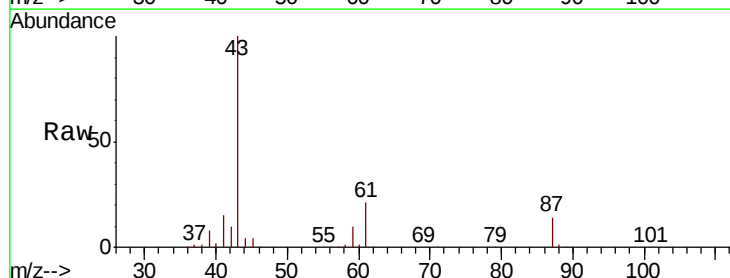


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

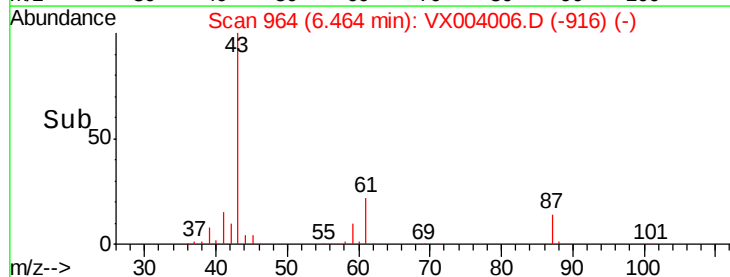
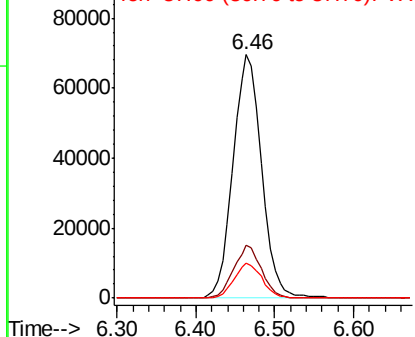


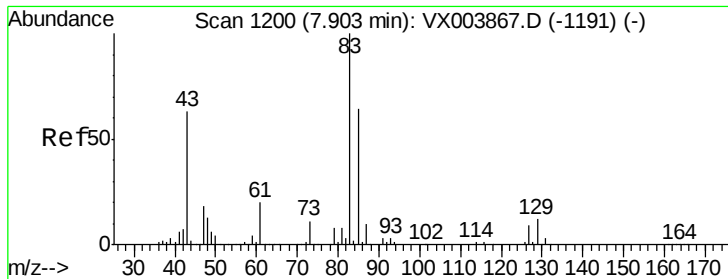
#43
Isopropyl Acetate
Concen: 19.04 ug/l
RT: 6.46 min Scan# 964
Delta R.T. -0.01 min
Lab File: VX004006.D
Acq: 13 Aug 2018 17:54

Tgt Ion: 43 Resp: 175192
Ion Ratio Lower Upper
43 100
61 21.1 16.9 25.3
87 14.1 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





#47

Bromodichloromethane

Concen: 0.34 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX004006.D

Acq: 13 Aug 2018 17:54

Instrument :

MSVOA_X

ClientSampleId :

SALEM-RD-SP

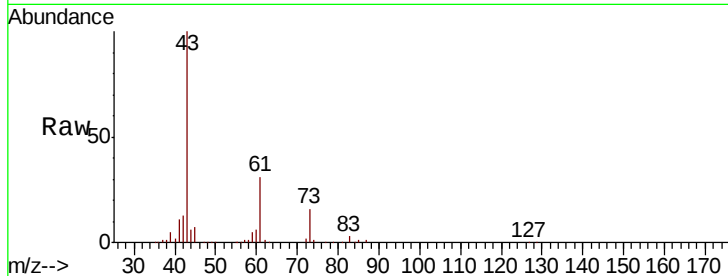
Tot Ion: 83 Resp: 1800

Ion Ratio Lower Upper

83 100

85 57.4 51.2 76.8

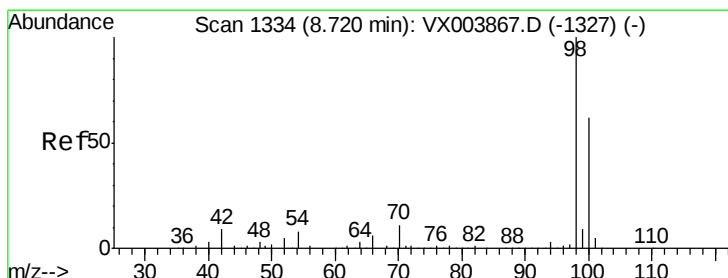
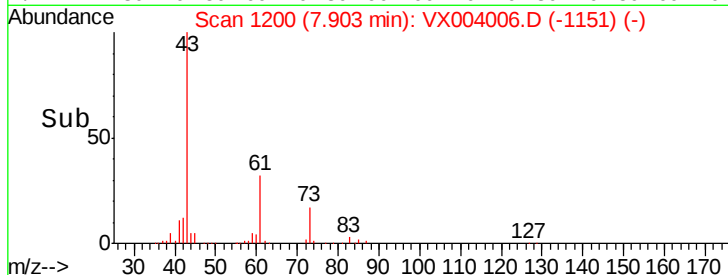
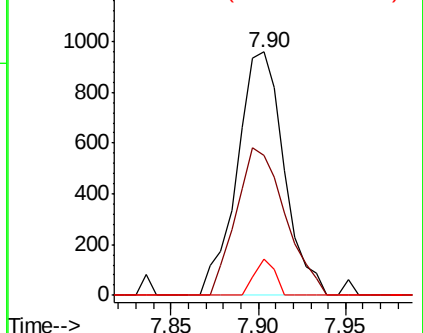
127 14.7 7.2 10.8#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#50

Toluene-d8

Concen: 47.60 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX004006.D

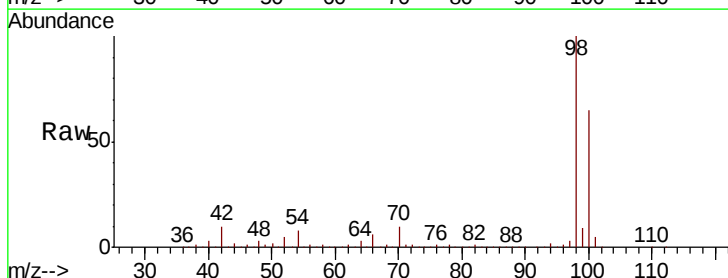
Acq: 13 Aug 2018 17:54

Tgt Ion: 98 Resp: 695861

Ion Ratio Lower Upper

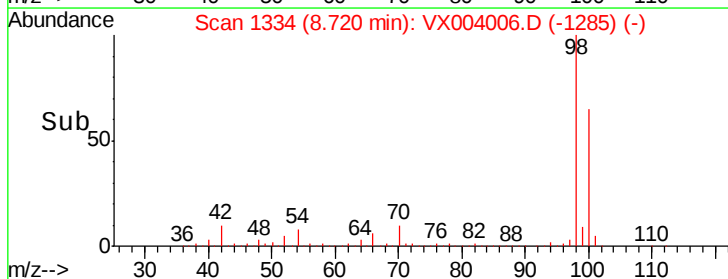
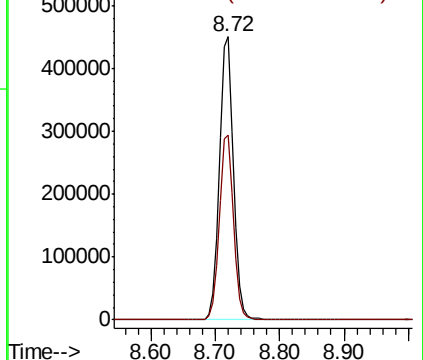
98 100

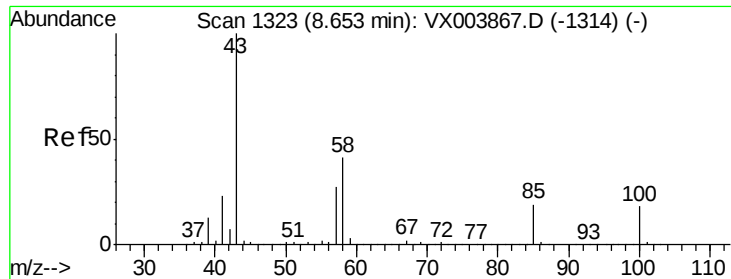
100 65.7 53.3 79.9



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: 0.55 ug/l

RT: 8.62 min Scan# 1318

Delta R.T. -0.03 min

Lab File: VX004006.D

Acq: 13 Aug 2018 17:54

Instrument :

MSVOA_X

ClientSampleId :

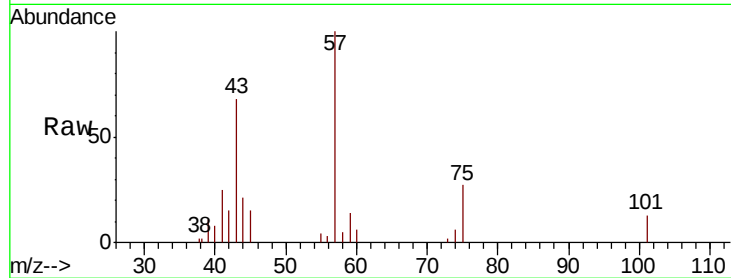
SALEM-RD-SP

Tot Ion: 43 Resp: 4222

Ion Ratio Lower Upper

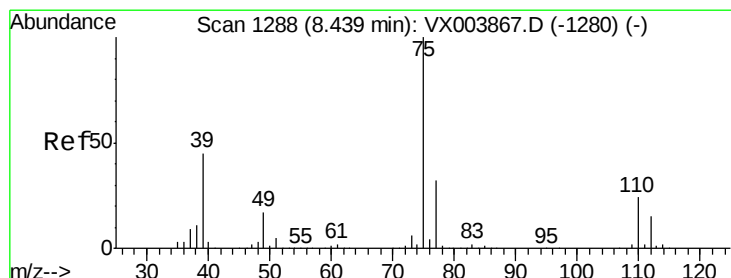
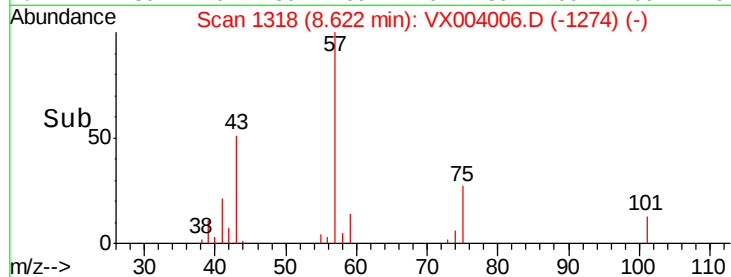
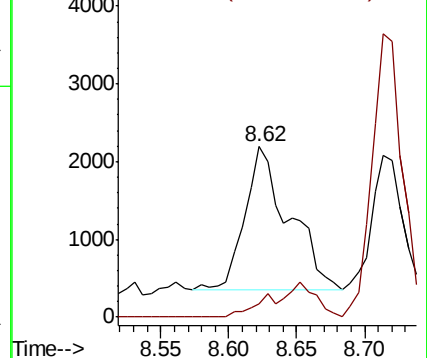
43 100

58 7.9 33.0 49.6#



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: 0.23 ug/l

RT: 8.62 min Scan# 1318

Delta R.T. 0.18 min

Lab File: VX004006.D

Acq: 13 Aug 2018 17:54

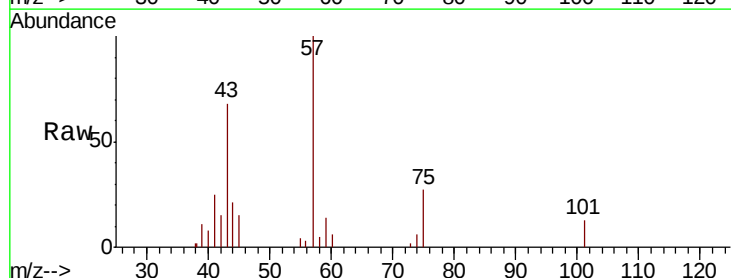
Tgt Ion: 75 Resp: 1458

Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#

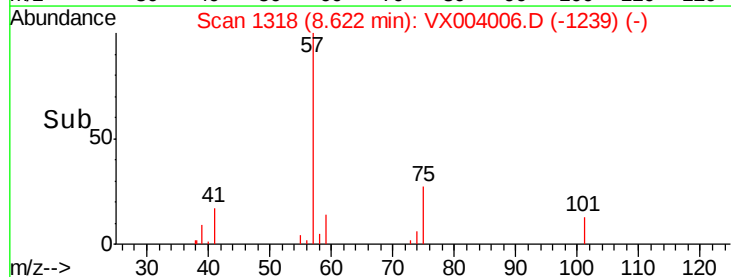
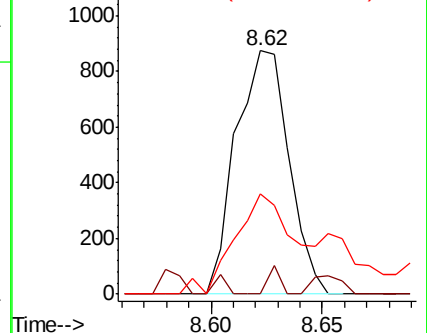
39 34.3 36.2 54.2#

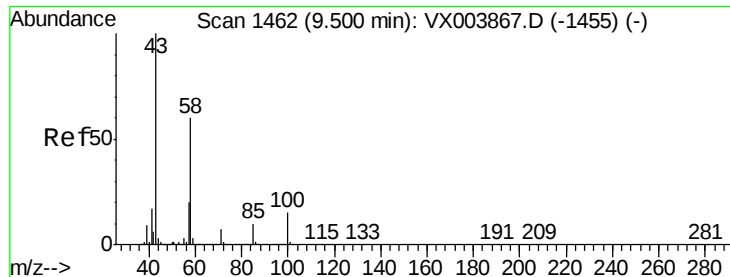


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#59

2-Hexanone

Concen: 2.23 ug/l

RT: 9.55 min Scan# 1470

Delta R.T. 0.05 min

Lab File: VX004006.D

Acq: 13 Aug 2018 17:54

Instrument :

MSVOA_X

ClientSampled :

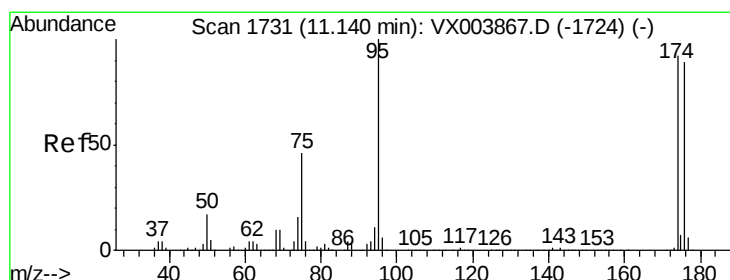
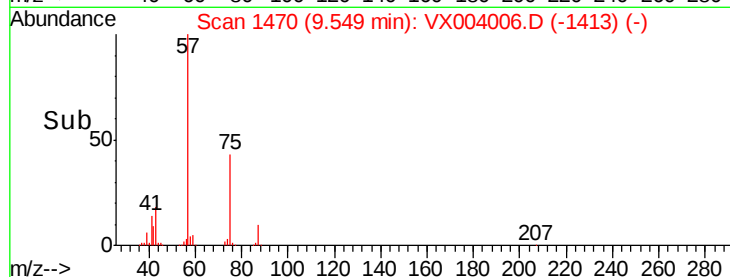
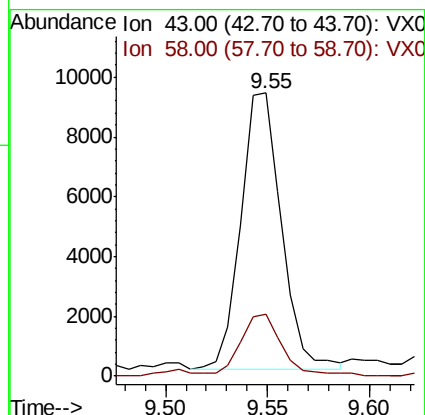
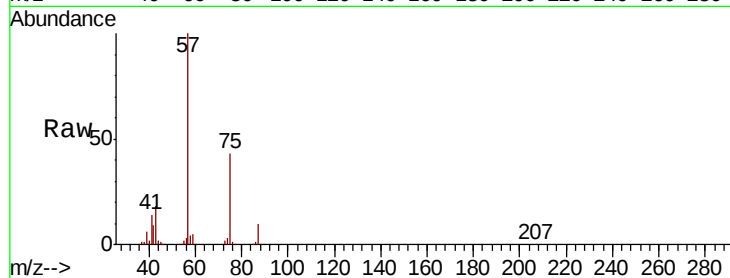
SALEM-RD-SP

Tot Ion: 43 Resp: 12696

Ion Ratio Lower Upper

43 100

58 23.1 29.0 87.0#



#62

4-Bromofluorobenzene

Concen: 51.76 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX004006.D

Acq: 13 Aug 2018 17:54

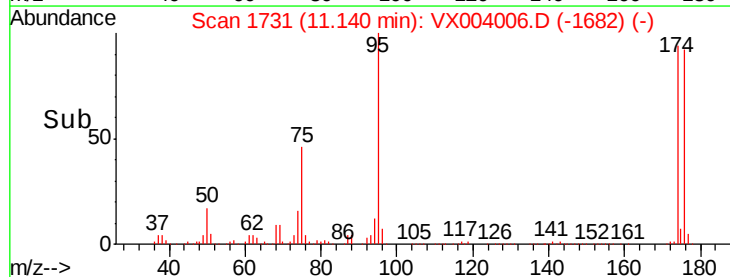
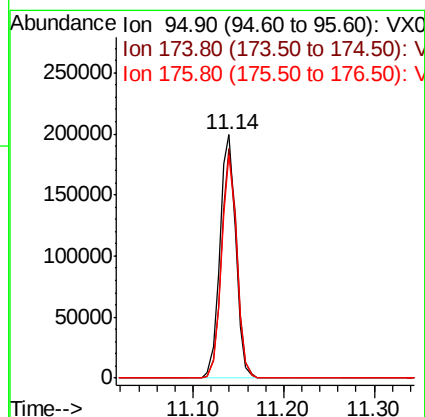
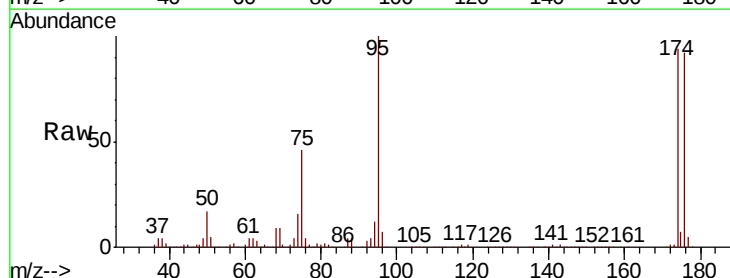
Tgt Ion: 95 Resp: 244840

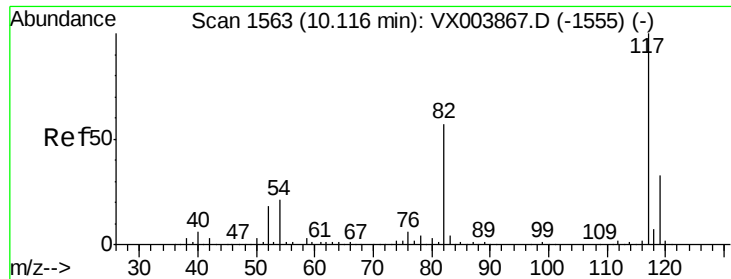
Ion Ratio Lower Upper

95 100

174 91.2 0.0 182.8

176 87.9 0.0 179.0

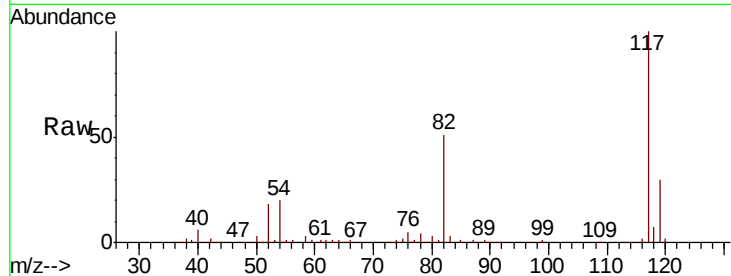




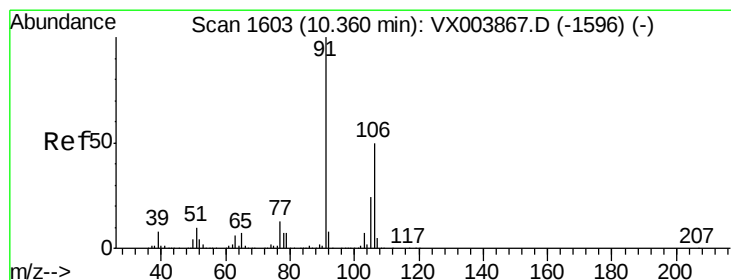
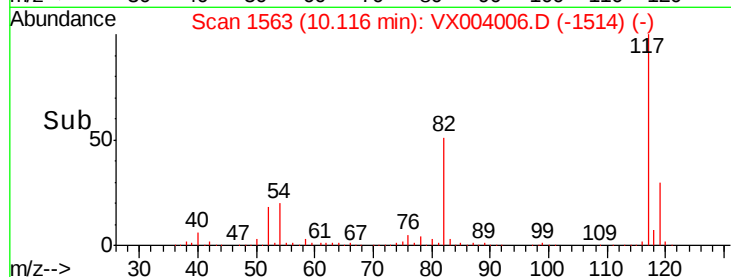
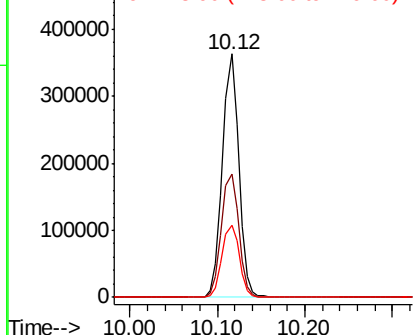
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX004006.D
Acq: 13 Aug 2018 17:54

Instrument :
MSVOA_X
ClientSampleId :
SALEM-RD-SP

Tot Ion:117 Resp: 471094
Ion Ratio Lower Upper
117 100
82 50.5 45.4 68.0
119 29.8 26.6 40.0

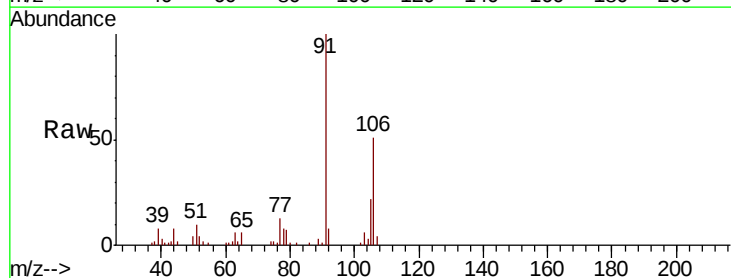


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

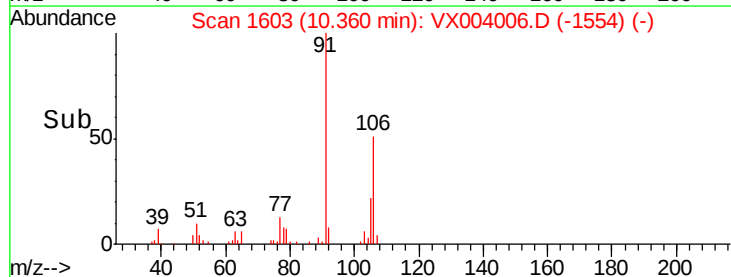
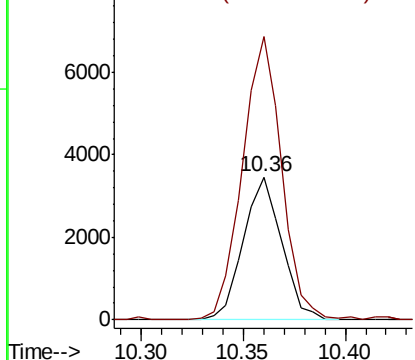


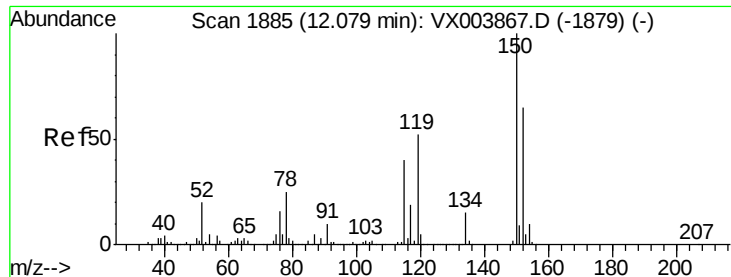
#68
m/p-Xylenes
Concen: 0.58 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VX004006.D
Acq: 13 Aug 2018 17:54

Tgt Ion:106 Resp: 4533
Ion Ratio Lower Upper
106 100
91 202.4 162.3 243.5



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX004006.D

Acq: 13 Aug 2018 17:54

Instrument :

MSVOA_X

ClientSampleId :

SALEM-RD-SP

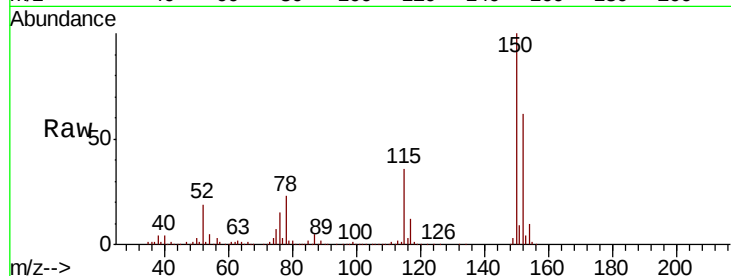
Tot Ion:152 Resp: 257850

Ion Ratio Lower Upper

152 100

115 55.6 39.1 117.3

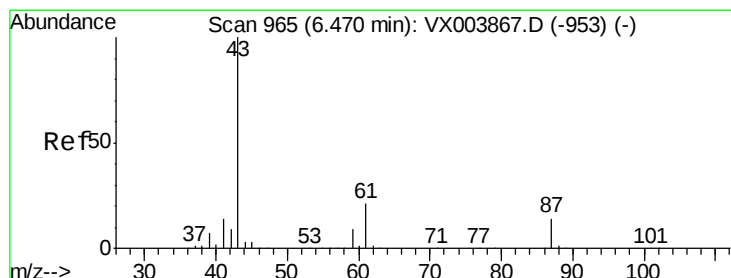
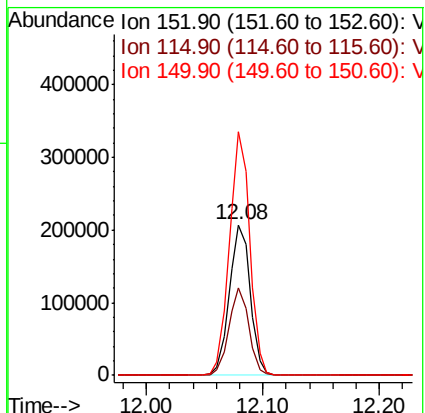
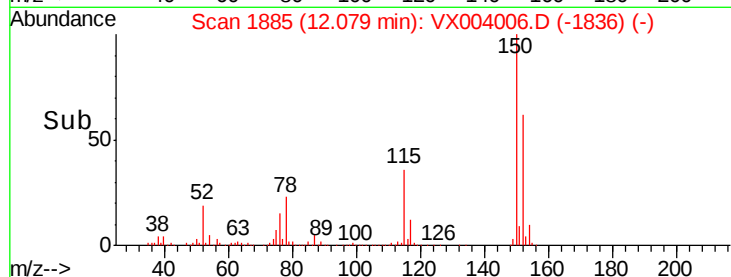
150 158.0 0.0 349.2



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: 17.66 ug/l

RT: 6.46 min Scan# 964

Delta R.T. -0.01 min

Lab File: VX004006.D

Acq: 13 Aug 2018 17:54

Tgt Ion: 43 Resp: 175192

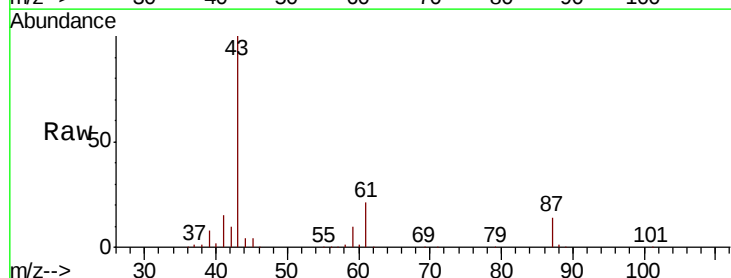
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.1 0.1 0.1

61 21.1 16.9 25.3

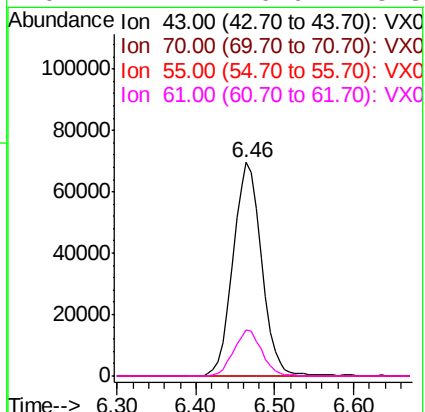
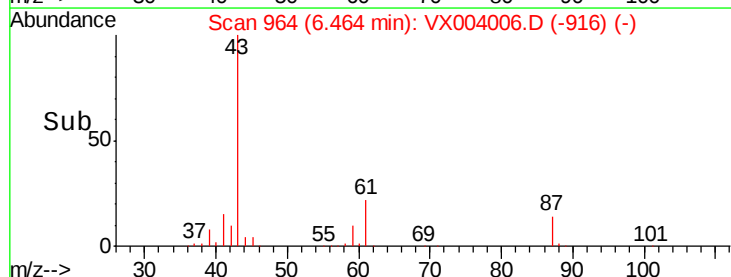


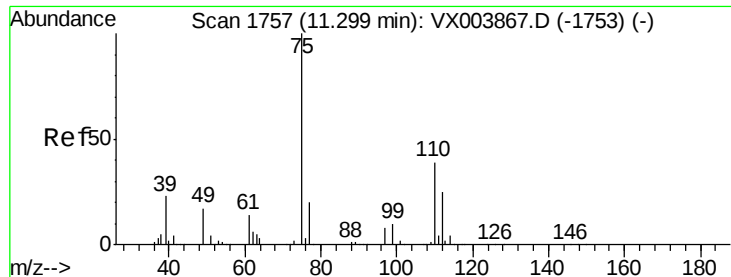
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

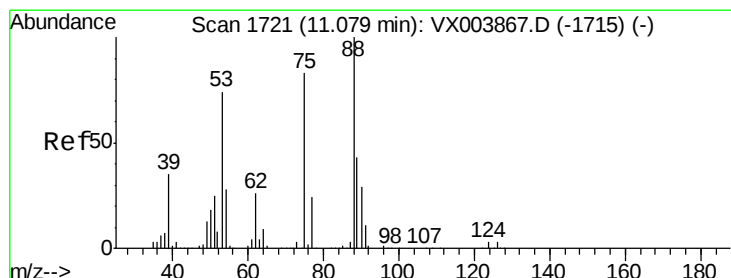
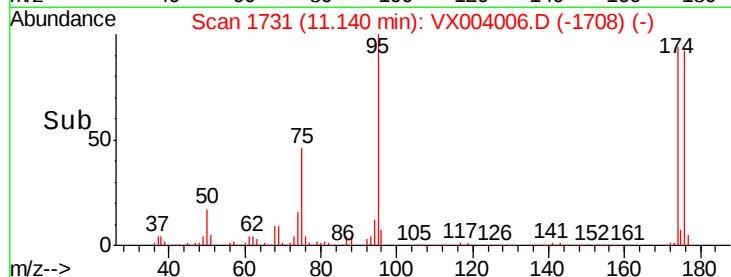
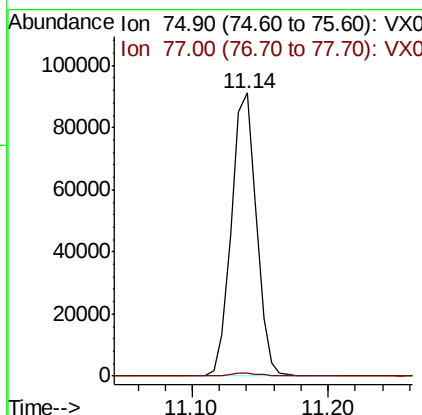
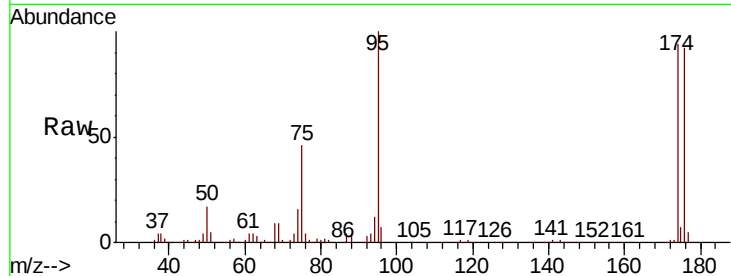




#76
 1,2,3-Trichloropropane
 Concen: 20.50 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX004006.D
 Acq: 13 Aug 2018 17:54

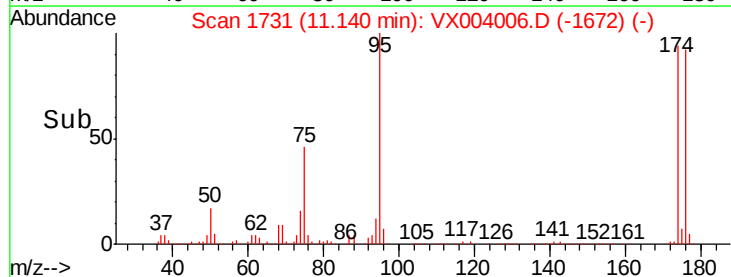
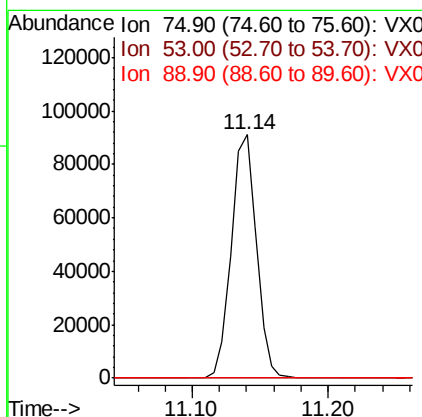
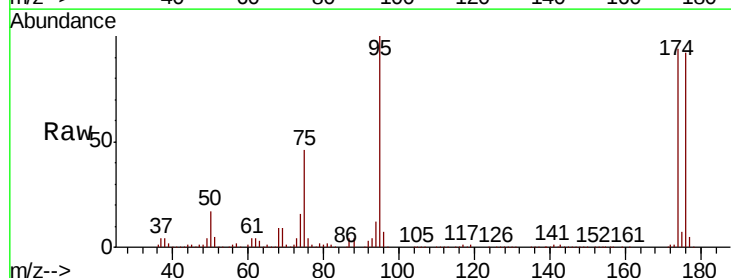
Instrument :
 MSVOA_X
 ClientSampled :
 SALEM-RD-SP

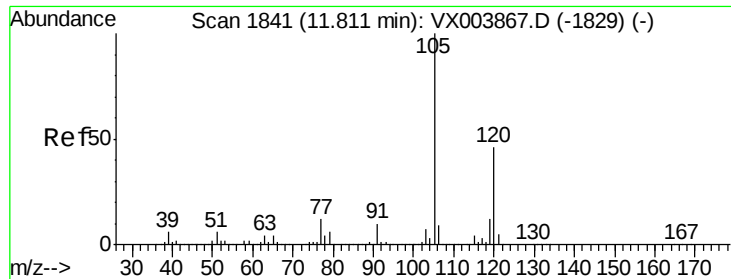
Tot Ion: 75 Resp: 116746
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.8 62.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.47 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX004006.D
 Acq: 13 Aug 2018 17:54

Tgt Ion: 75 Resp: 116746
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.3 120.5#
 89 0.0 37.8 56.8#

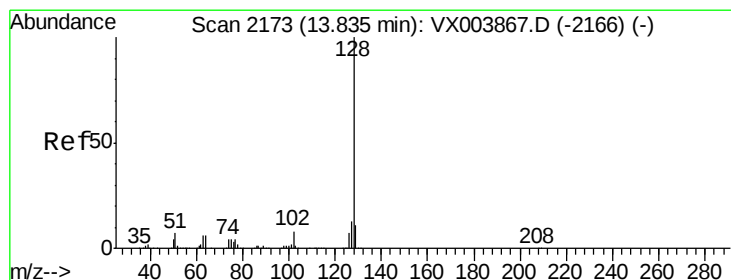
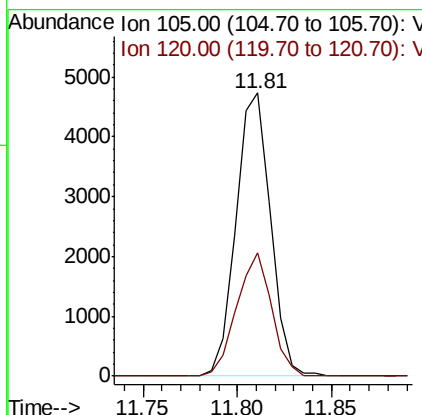
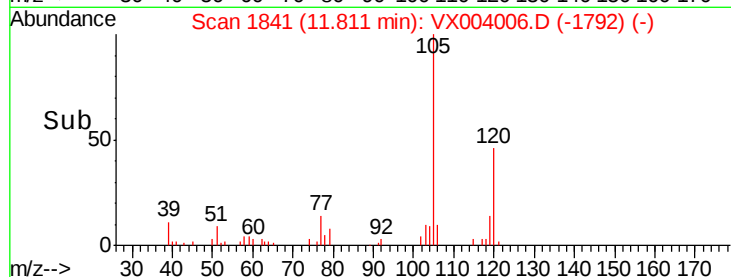
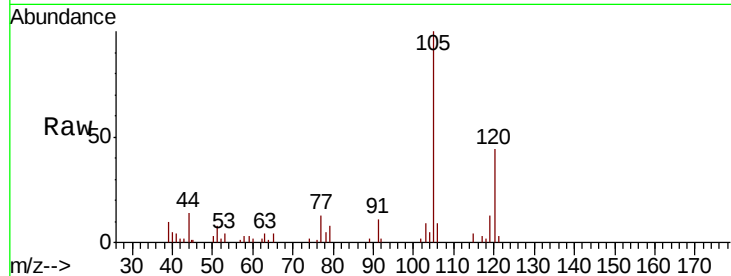




#84
 1,2,4-Trimethylbenzene
 Concen: 0.38 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX004006.D
 Acq: 13 Aug 2018 17:54

Instrument :
 MSVOA_X
 ClientSampleId :
 SALEM-RD-SP

Tot Ion:105 Resp: 6006
 Ion Ratio Lower Upper
 105 100
 120 43.9 23.1 69.2



#95
 Naphthalene
 Concen: 4.43 ug/l
 RT: 13.83 min Scan# 2173
 Delta R.T. 0.00 min
 Lab File: VX004006.D
 Acq: 13 Aug 2018 17:54

Tgt Ion:128 Resp: 84995
 Ion Ratio Lower Upper
 128 100
 127 12.5 10.2 15.2
 129 11.0 8.8 13.2

