

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101018\
 Data File : VX005224.D
 Acq On : 10 Oct 2018 23:09
 Operator : JC/MD
 Sample : J5317-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-109D2-20181005

Quant Time: Oct 11 06:09:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	163173	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	260531	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	259419	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	144616	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	128807	55.26	ug/l	0.00
Spiked Amount			Recovery	=	110.52%	
35) Dibromofluoromethane	5.51	113	109637	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	
50) Toluene-d8	8.72	98	381638	51.99	ug/l	0.00
Spiked Amount			Recovery	=	103.98%	
62) 4-Bromofluorobenzene	11.14	95	135027	51.06	ug/l	0.00
Spiked Amount			Recovery	=	102.12%	

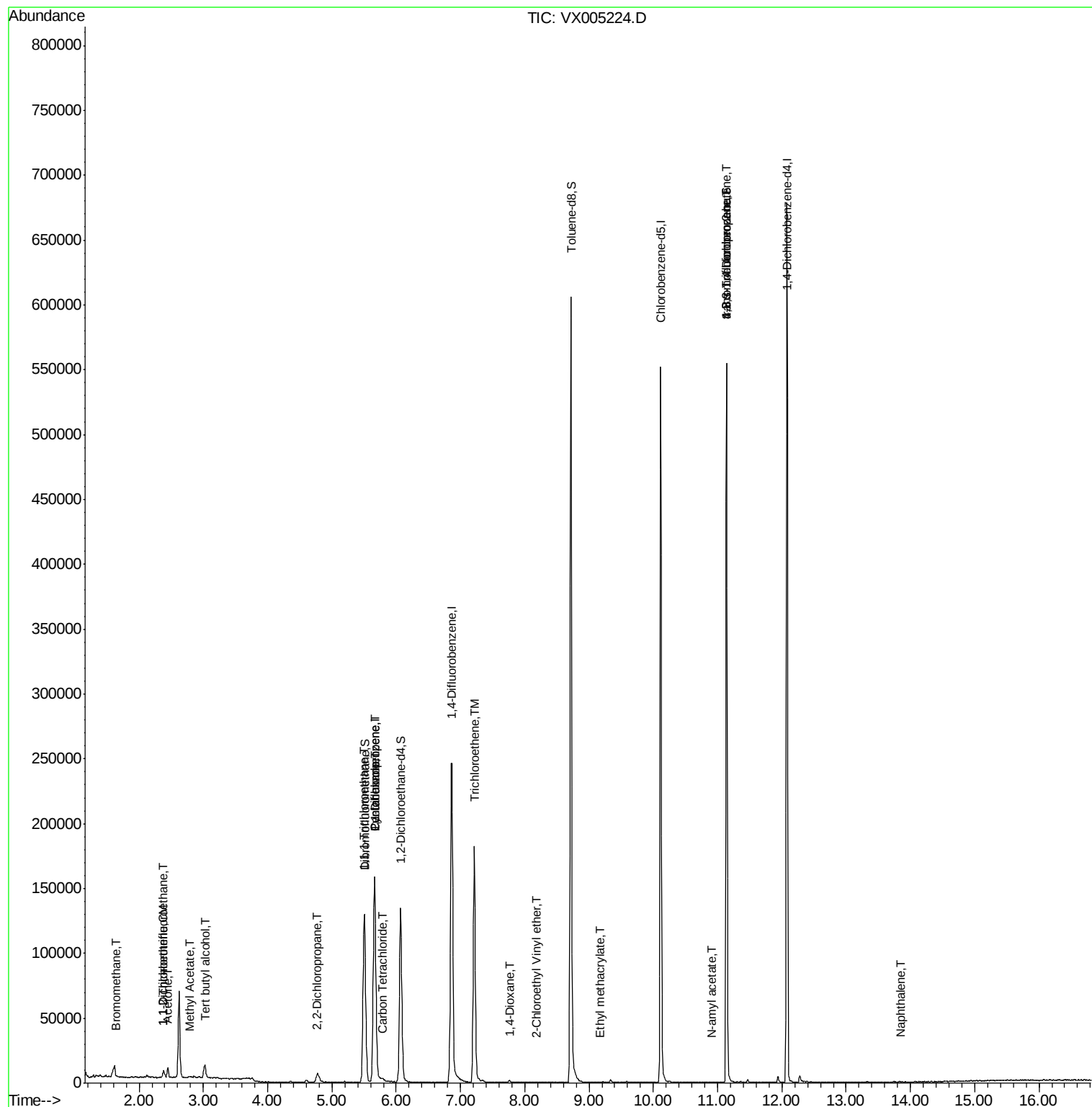
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	435	0.290	ug/l	99
6) Chloroethane	1.71	64	102	Below Cal	#	45
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1634	0.915	ug/l	99
11) Tert butyl alcohol	3.03	59	6319	9.695	ug/l #	83
12) 1,1-Dichloroethene	2.38	96	481	0.272	ug/l #	49
16) Acetone	2.45	43	7608	5.591	ug/l	99
18) Methyl Acetate	2.78	43	804	0.233	ug/l #	87
20) Methylene Chloride	2.86	84	194	Below Cal	#	70
26) 2,2-Dichloropropane	4.77	77	699	0.259	ug/l #	50
31) Cyclohexane	5.66	56	3053	1.029	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	682	0.228	ug/l #	34
36) 1,1-Dichloropropene	5.67	75	11748	3.900	ug/l #	46
38) Carbon Tetrachloride	5.79	117	665	0.210	ug/l #	78
44) Trichloroethene	7.21	130	74671	32.206	ug/l	97
49) 1,4-Dioxane	7.77	88	770	11.831	ug/l #	66
56) Ethyl methacrylate	9.18	69	19	2.867	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.18	63	21	14.252	ug/l #	49
74) N-amyl acetate	10.90	43	22	1.752	ug/l #	25
76) 1,2,3-Trichloropropane	11.14	75	66259	20.442	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	89	Below Cal	#	56
81) trans-1,4-Dichloro-2-buten	11.14	75	66259	55.524	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	144	Below Cal		87
95) Naphthalene	13.84	128	271	0.742	ug/l #	69

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

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Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

Instrument :

MSVOA_X

ClientSampleId :

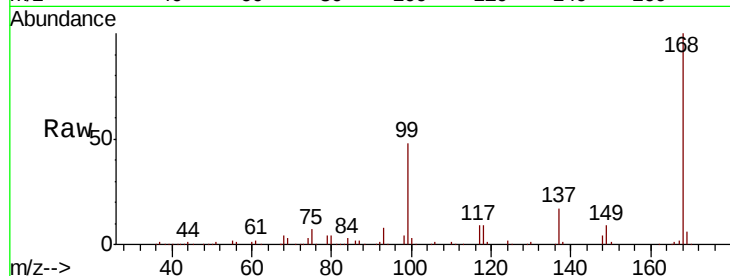
RE-109D2-20181005

Tot Ion:168 Resp: 163173

Ion Ratio Lower Upper

168 100

99 48.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

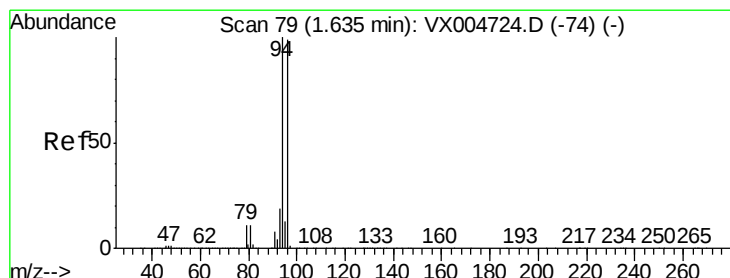
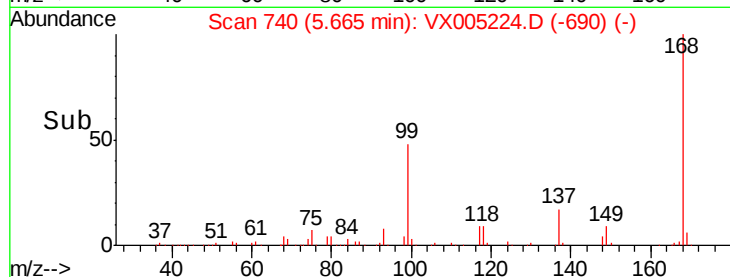
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.290 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005224.D

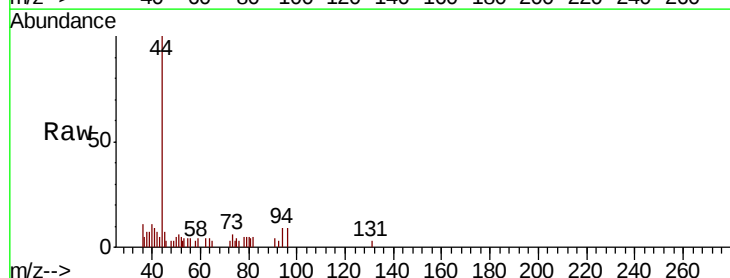
Acq: 10 Oct 2018 23:09

Tgt Ion: 94 Resp: 435

Ion Ratio Lower Upper

94 100

96 100.6 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

150

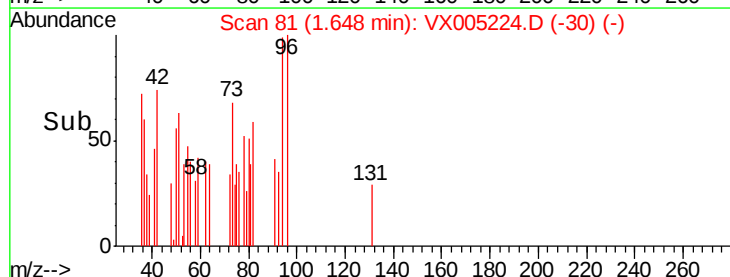
100

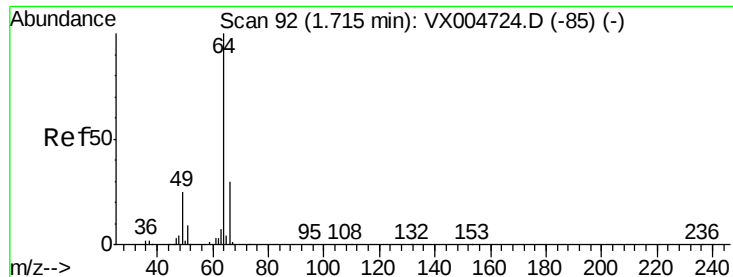
50

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

Instrument :

MSVOA_X

ClientSampleId :

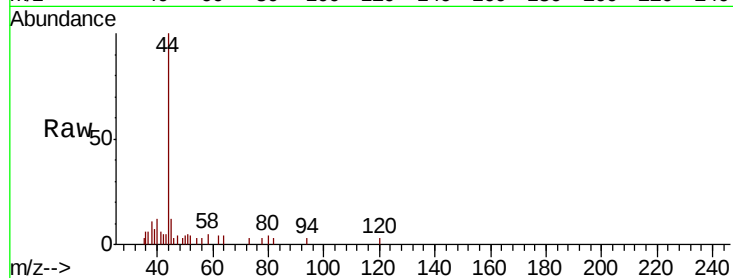
RE-109D2-20181005

Tot Ion: 64 Resp: 102

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#

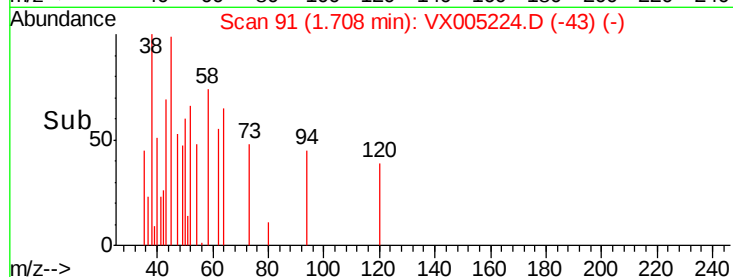


Abundance Ion 63.90 (63.60 to 64.60): VX0

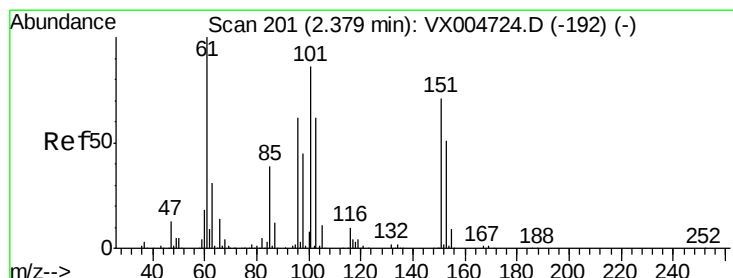
Ion 65.90 (65.60 to 66.60): VX0

1.71

1.68 1.70 1.72



Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.915 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

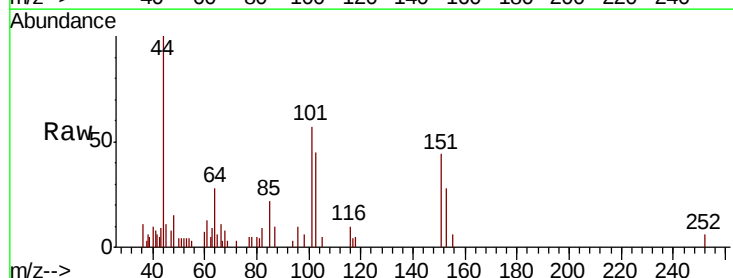
Tgt Ion:101 Resp: 1634

Ion Ratio Lower Upper

101 100

85 44.8 35.9 53.9

151 85.0 66.6 100.0



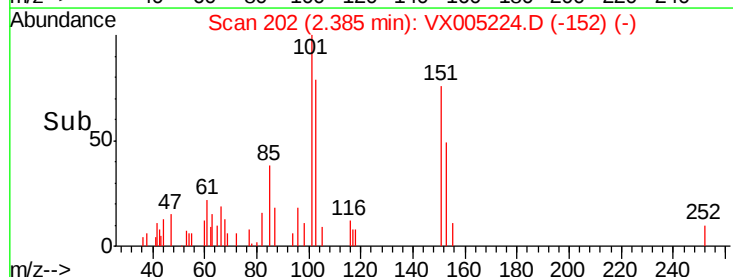
Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

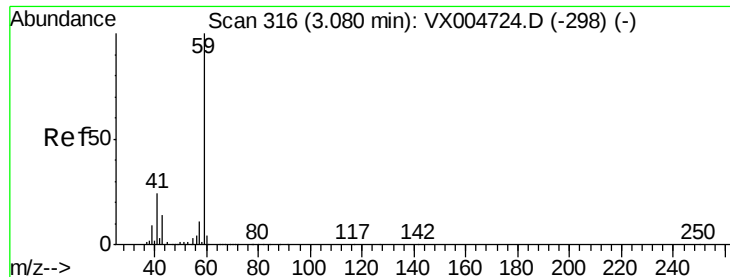
Ion 150.80 (150.50 to 151.50): V

2.39

2.30 2.35 2.40 2.45



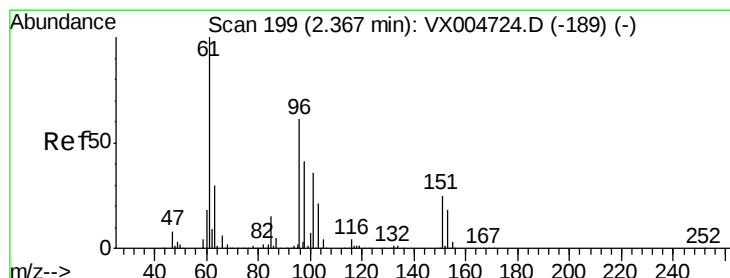
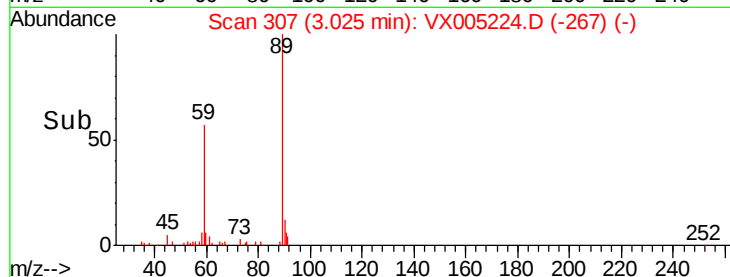
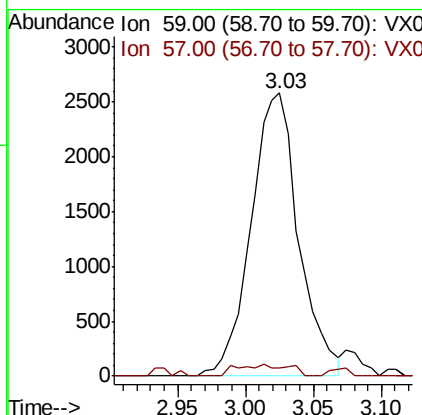
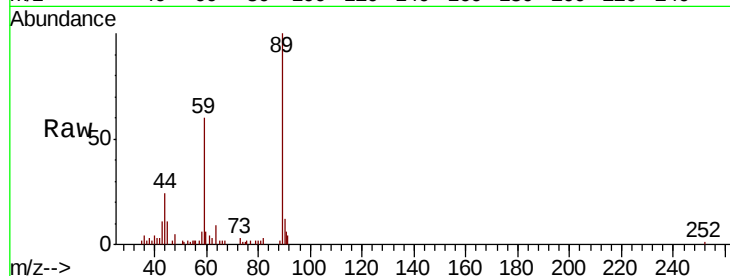
Time-->



#11
Tert butyl alcohol
Concen: 9.695 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX005224.D
Acq: 10 Oct 2018 23:09

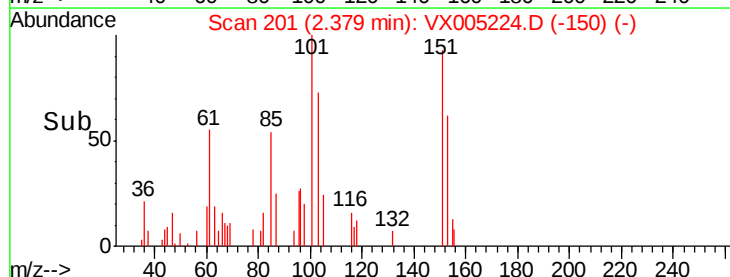
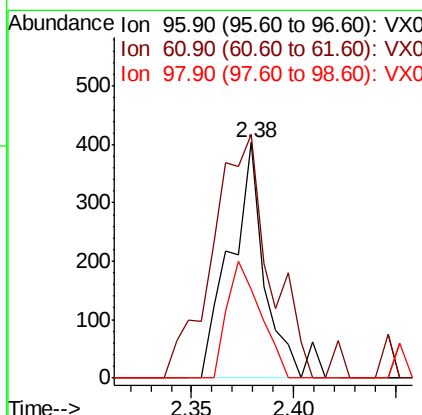
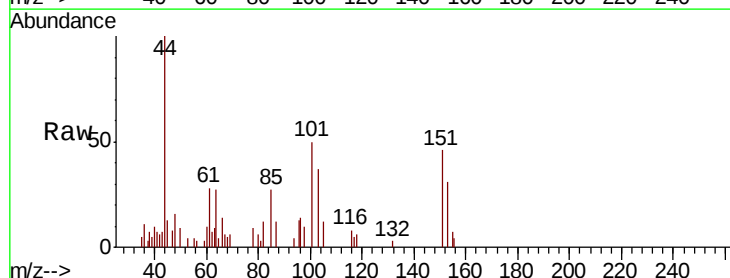
Instrument :
MSVOA_X
ClientSampleId :
RE-109D2-20181005

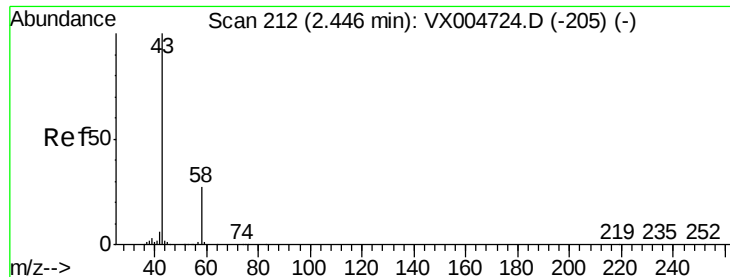
Tot Ion: 59 Resp: 6319
Ion Ratio Lower Upper
59 100
57 4.5 8.6 12.8#



#12
1,1-Dichloroethene
Concen: 0.272 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX005224.D
Acq: 10 Oct 2018 23:09

Tgt Ion: 96 Resp: 481
Ion Ratio Lower Upper
96 100
61 87.6 130.2 195.4#
98 37.6 53.4 80.0#





#16

Acetone

Concen: 5.591 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

Instrument :

MSVOA_X

ClientSampleId :

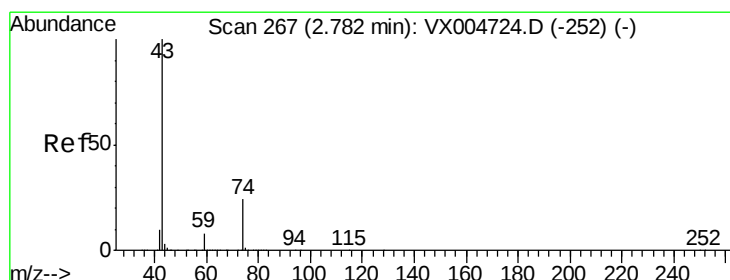
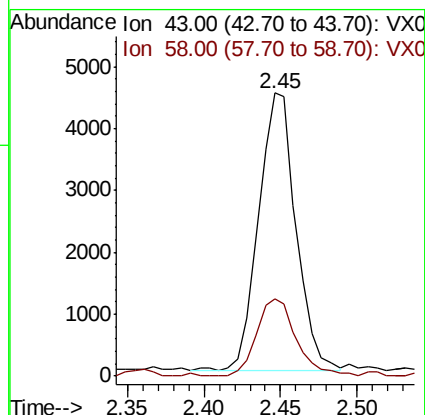
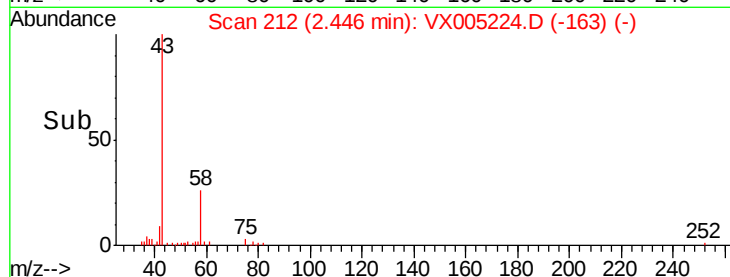
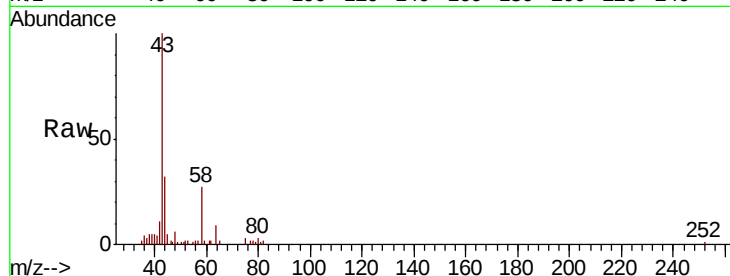
RE-109D2-20181005

Tot Ion: 43 Resp: 7608

Ion Ratio Lower Upper

43 100

58 26.8 21.8 32.6



#18

Methyl Acetate

Concen: 0.233 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX005224.D

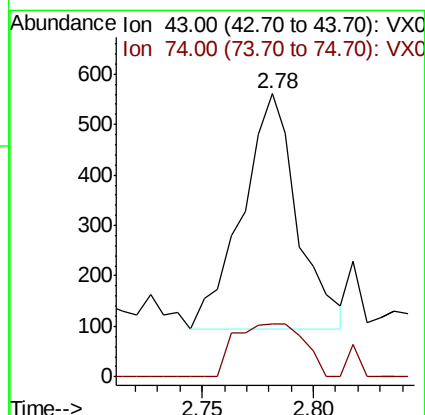
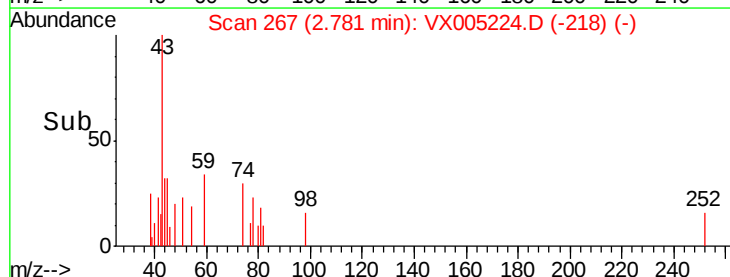
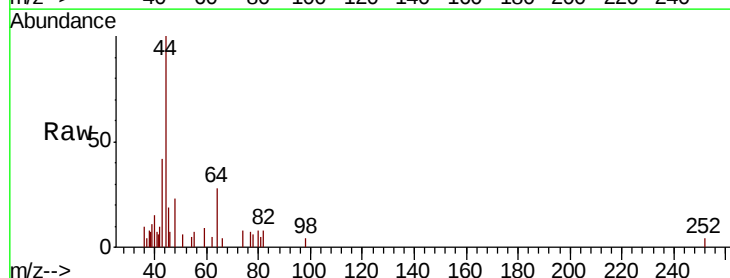
Acq: 10 Oct 2018 23:09

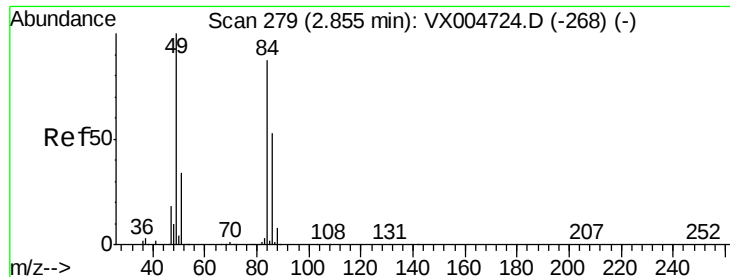
Tgt Ion: 43 Resp: 804

Ion Ratio Lower Upper

43 100

74 28.4 17.8 26.8#



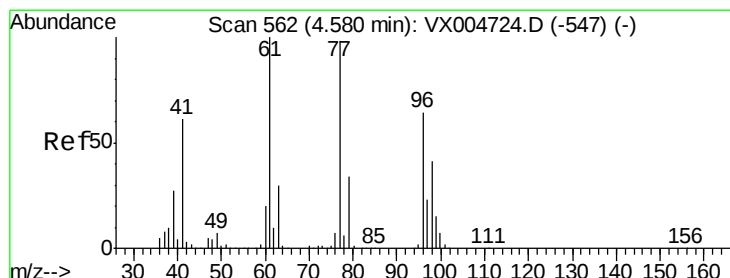
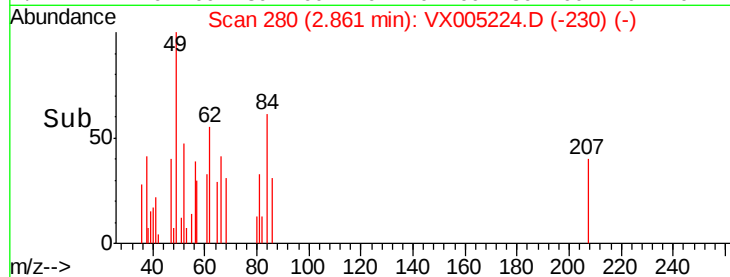
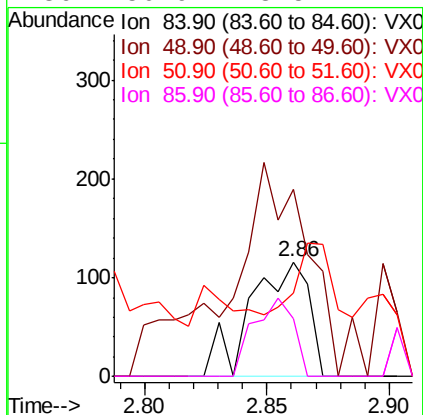
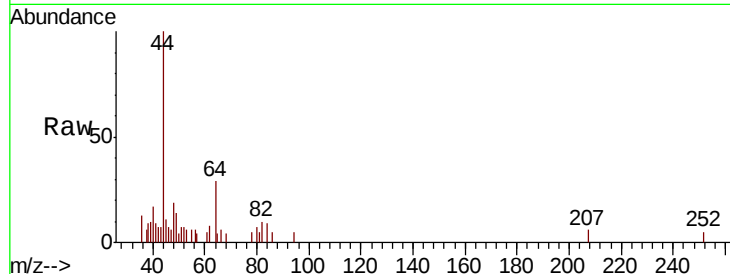


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.86 min Scan# 280
 Delta R.T. 0.01 min
 Lab File: VX005224.D
 Acq: 10 Oct 2018 23:09

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-109D2-20181005

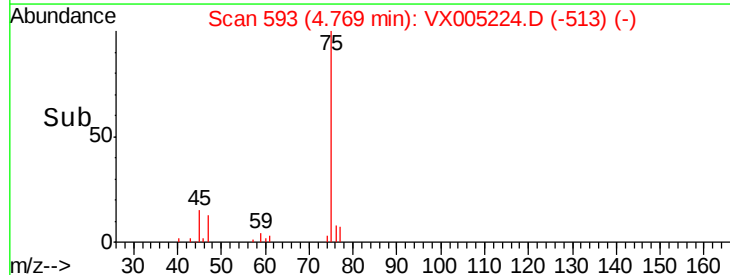
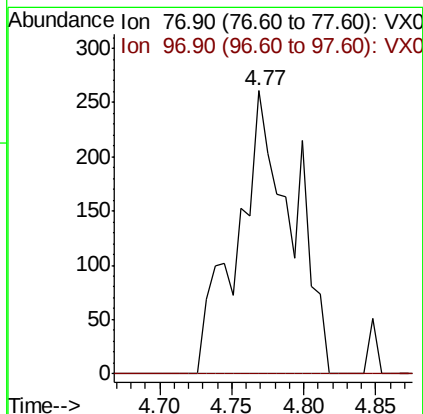
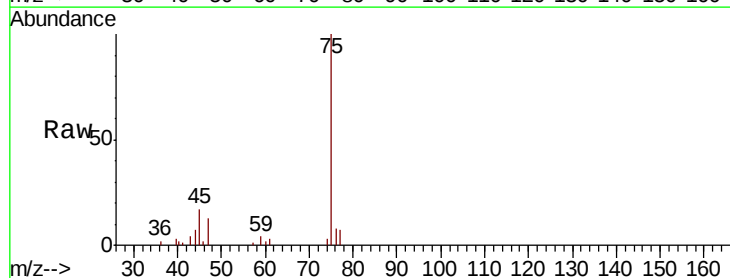
Tot Ion: 84 Resp: 194
 Ion Ratio Lower Upper
 84 100
 49 162.9 92.3 138.5#
 51 29.3 31.8 47.6#
 86 50.9 48.5 72.7

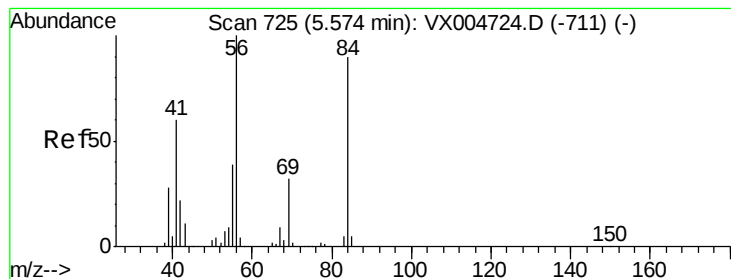


#26

2,2-Dichloropropane
 Concen: 0.259 ug/l
 RT: 4.77 min Scan# 593
 Delta R.T. 0.19 min
 Lab File: VX005224.D
 Acq: 10 Oct 2018 23:09

Tgt Ion: 77 Resp: 699
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.6 37.8#





#31

Cyclohexane

Concen: 1.029 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

Instrument :

MSVOA_X

ClientSampleId :

RE-109D2-20181005

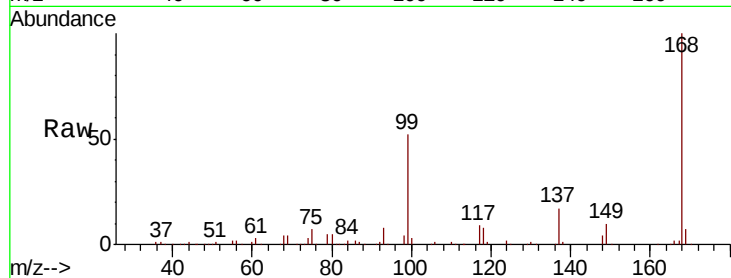
Tot Ion: 56 Resp: 3053

Ion Ratio Lower Upper

56 100

69 225.5 25.9 38.9#

84 129.8 71.9 107.9#

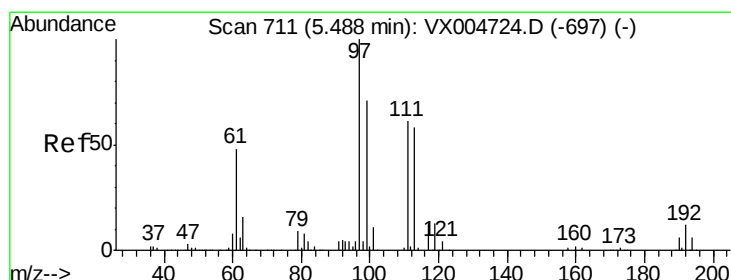
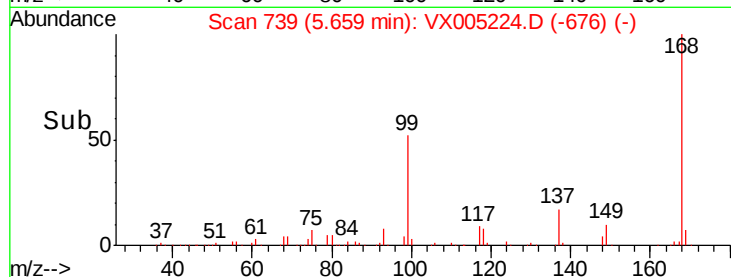
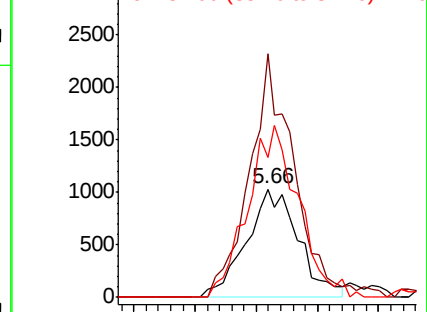


Abundance

Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 0.228 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.01 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

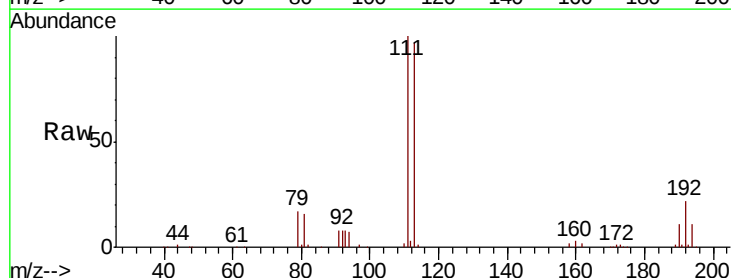
Tgt Ion: 97 Resp: 682

Ion Ratio Lower Upper

97 100

99 0.0 54.6 82.0#

61 21.1 37.5 56.3#

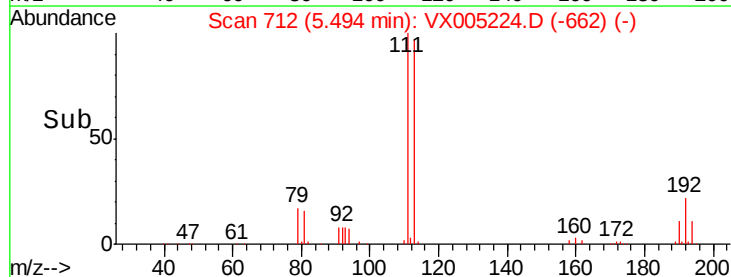
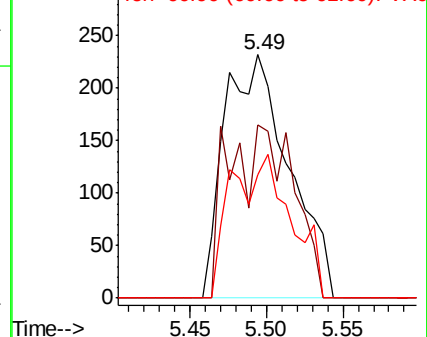


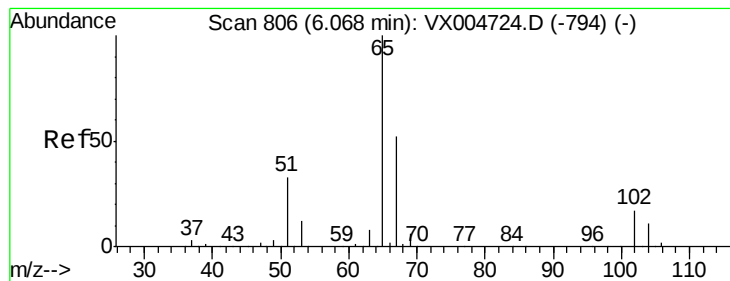
Abundance

Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 55.260 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

Instrument :

MSVOA_X

ClientSampleId :

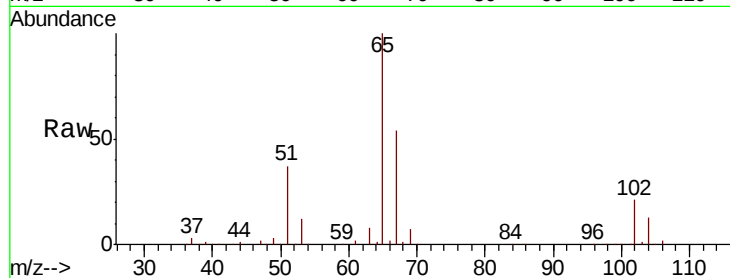
RE-109D2-20181005

Tot Ion: 65 Resp: 128807

Ion Ratio Lower Upper

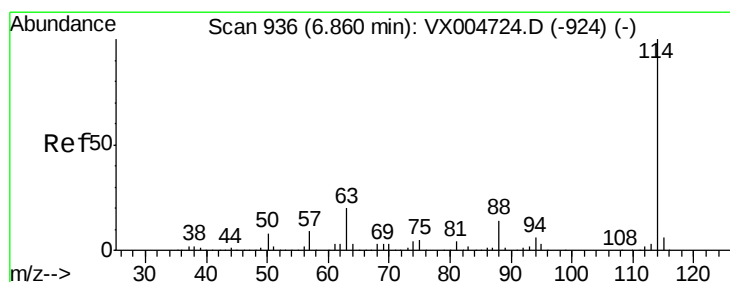
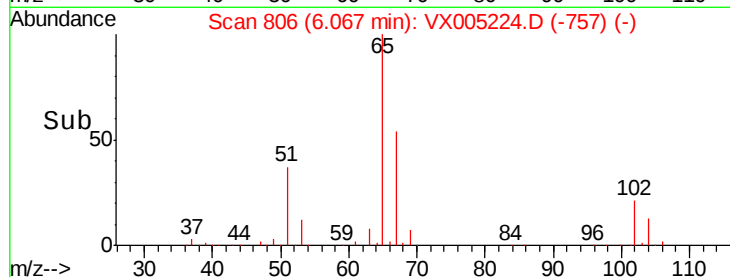
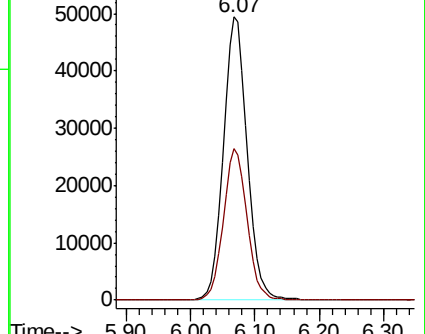
65 100

67 53.3 0.0 107.4



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: 6.87 min Scan# 937

Delta R.T. 0.01 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

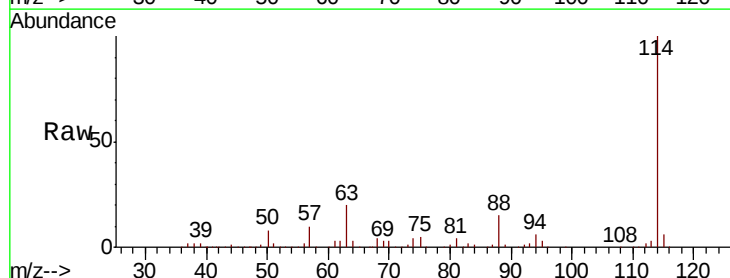
Tgt Ion: 114 Resp: 260531

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.8

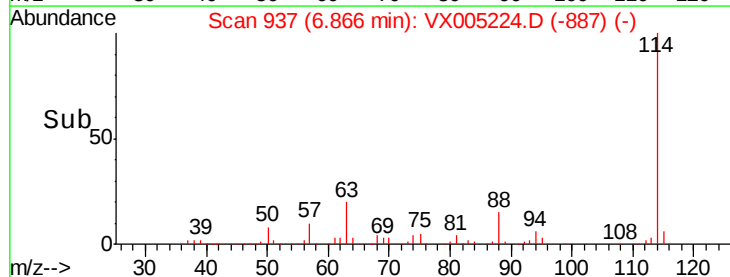
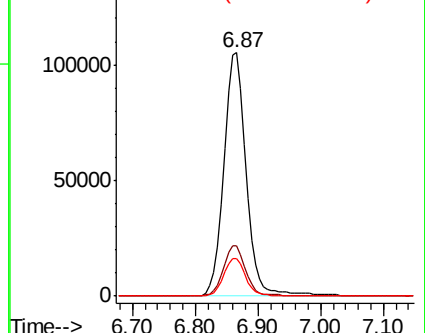
88 15.5 0.0 27.0

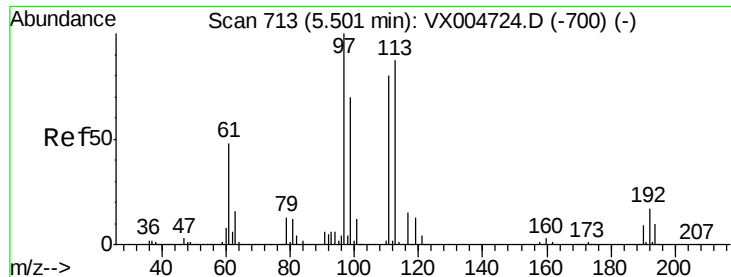


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

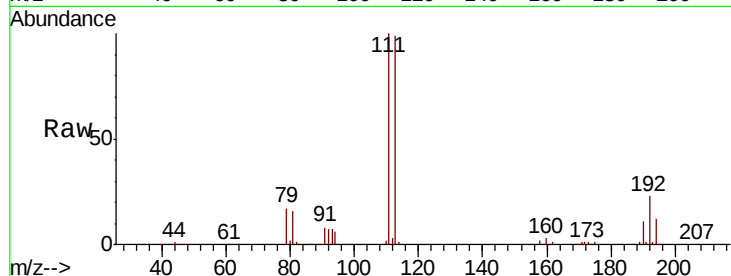




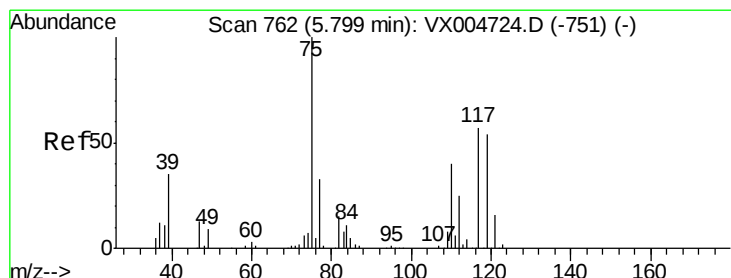
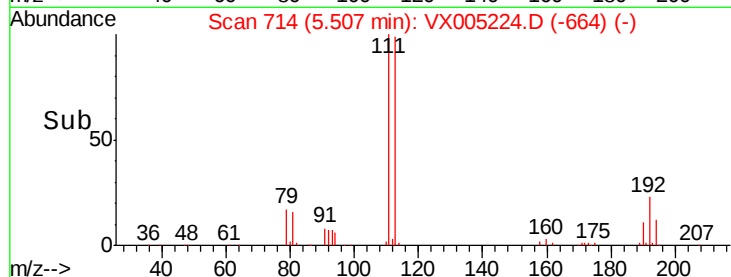
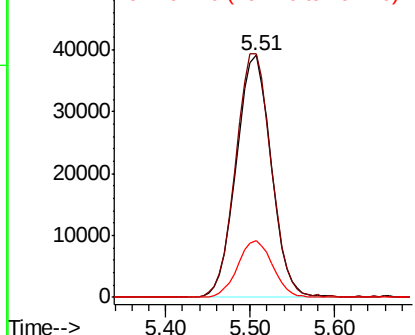
#35
 Dibromofluoromethane
 Concen: 49.654 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005224.D
 Acq: 10 Oct 2018 23:09

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-109D2-20181005

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	77.0	115.4
192	23.5	17.0	25.6

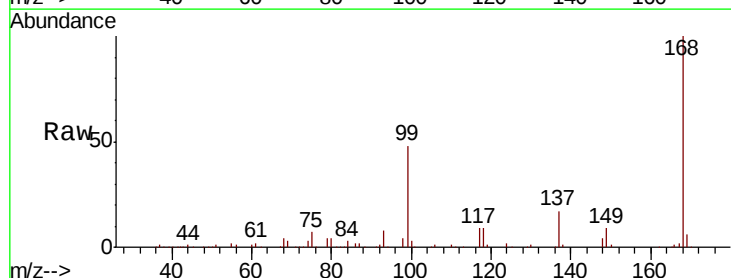


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

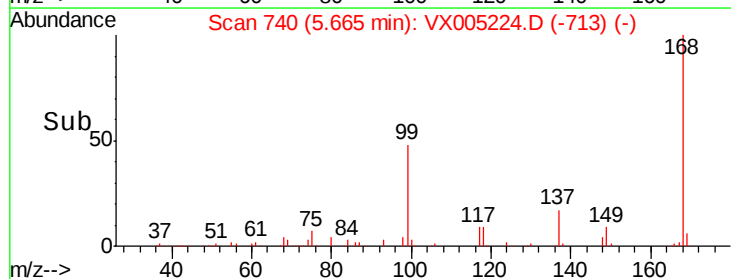
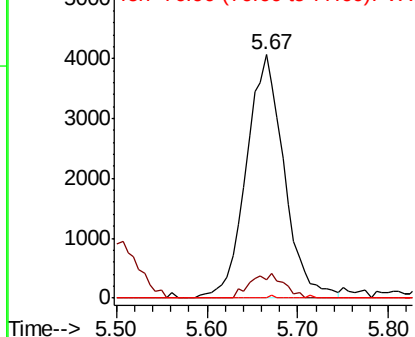


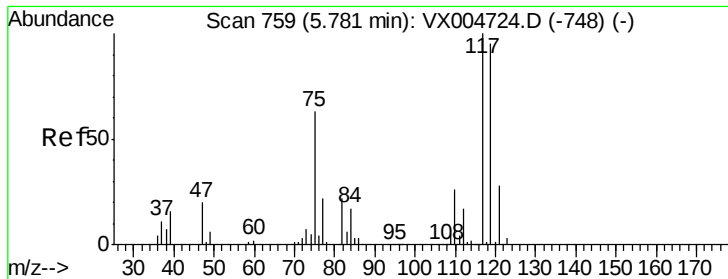
#36
 1,1-Dichloropropene
 Concen: 3.900 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005224.D
 Acq: 10 Oct 2018 23:09

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	20.0	59.9#
77	0.2	27.1	40.7#



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: 0.210 ug/l

RT: 5.79 min Scan# 760

Delta R.T. 0.01 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

Instrument :

MSVOA_X

ClientSampleId :

RE-109D2-20181005

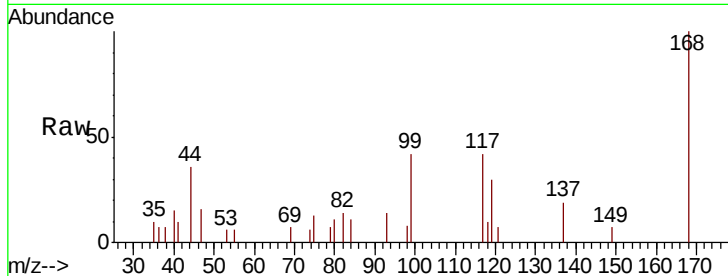
Tot Ion:117 Resp: 665

Ion Ratio Lower Upper

117 100

119 72.4 75.2 112.8#

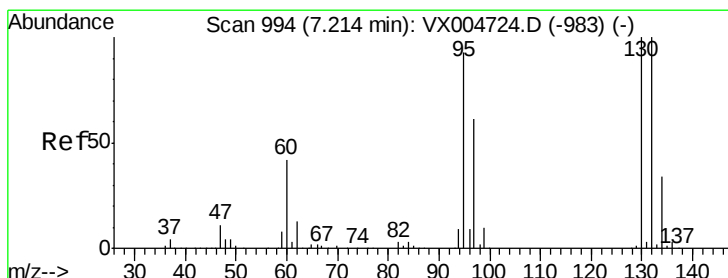
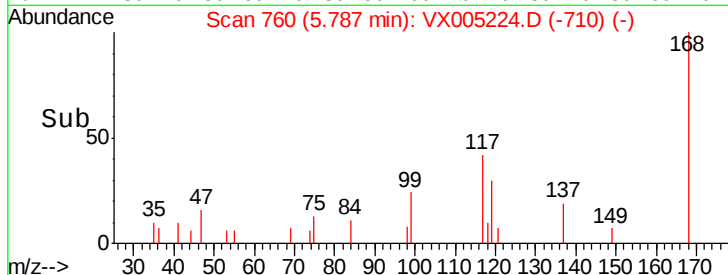
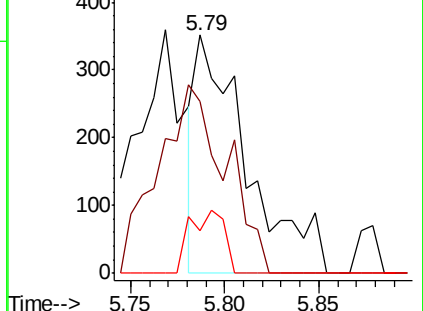
121 17.7 22.5 33.7#



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



#44

Trichloroethene

Concen: 32.206 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX005224.D

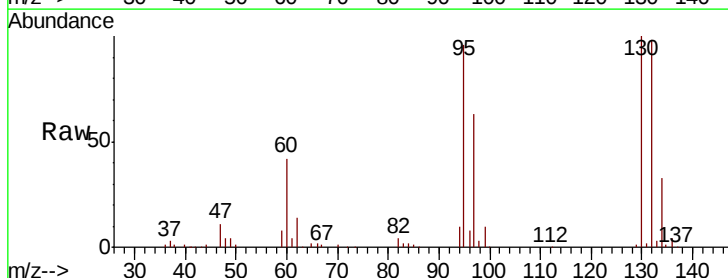
Acq: 10 Oct 2018 23:09

Tgt Ion:130 Resp: 74671

Ion Ratio Lower Upper

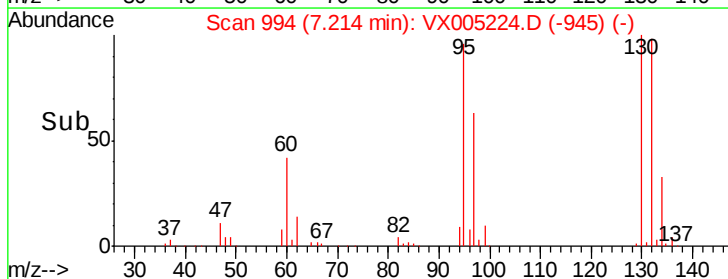
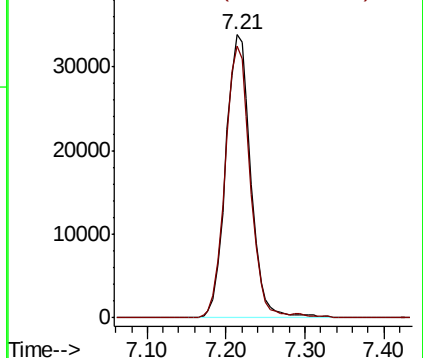
130 100

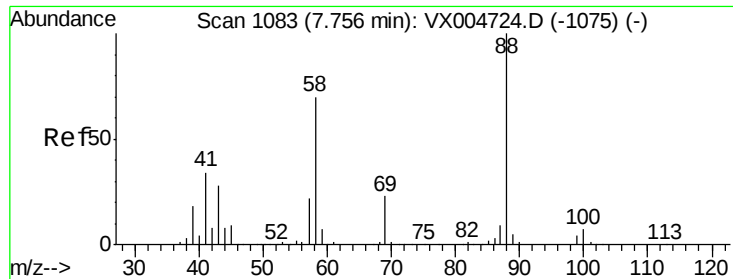
95 96.0 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

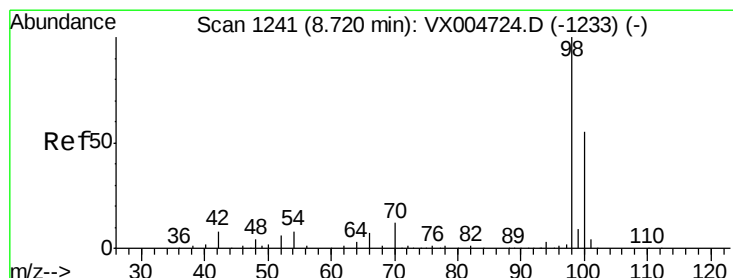
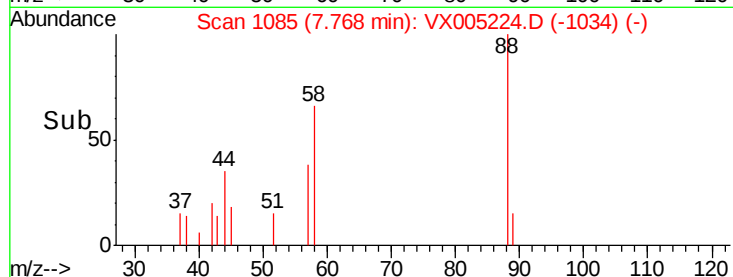
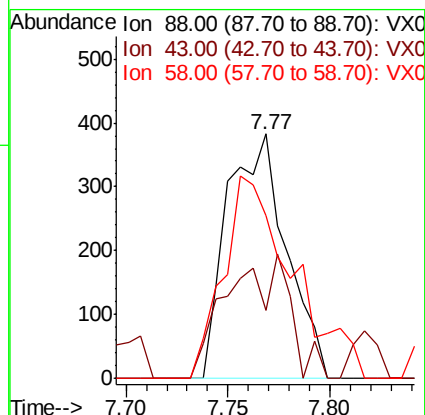
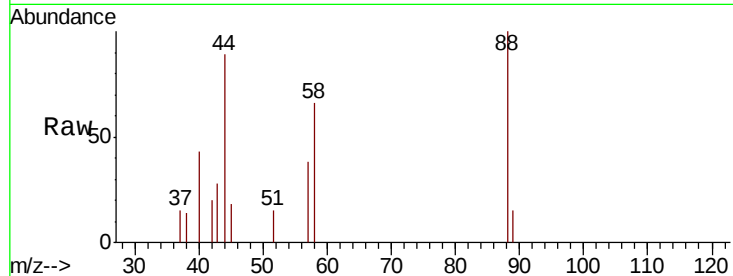




#49
1,4-Dioxane
Concen: 11.831 ug/l
RT: 7.77 min Scan# 1085
Delta R.T. 0.01 min
Lab File: VX005224.D
Acq: 10 Oct 2018 23:09

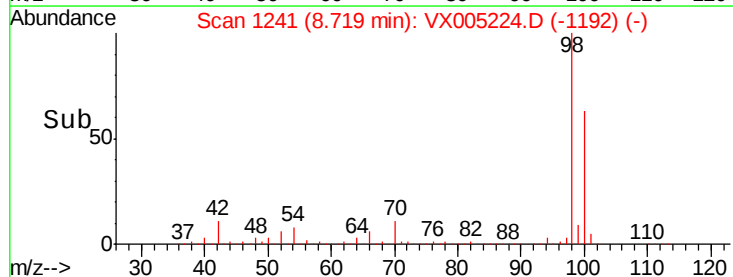
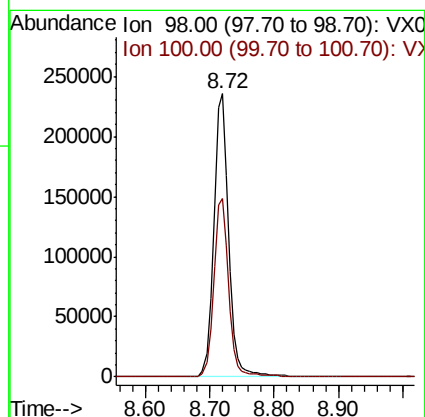
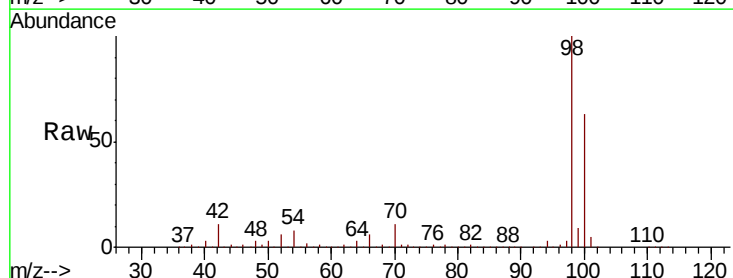
Instrument :
MSVOA_X
ClientSampleId :
RE-109D2-20181005

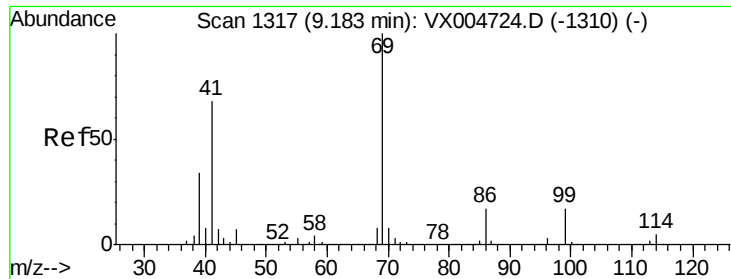
Tot Ion: 88 Resp: 770
Ion Ratio Lower Upper
88 100
43 53.0 25.1 37.7#
58 96.4 56.2 84.2#



#50
Toluene-d8
Concen: 51.990 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX005224.D
Acq: 10 Oct 2018 23:09

Tgt Ion: 98 Resp: 381638
Ion Ratio Lower Upper
98 100
100 63.4 51.9 77.9

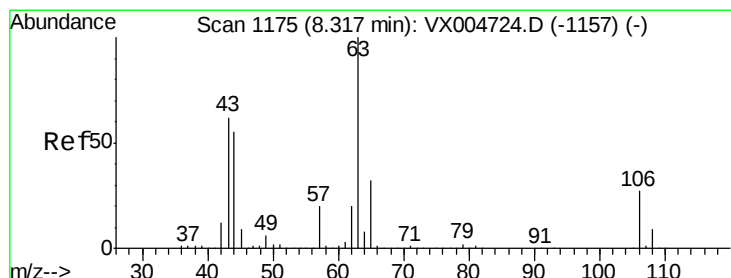
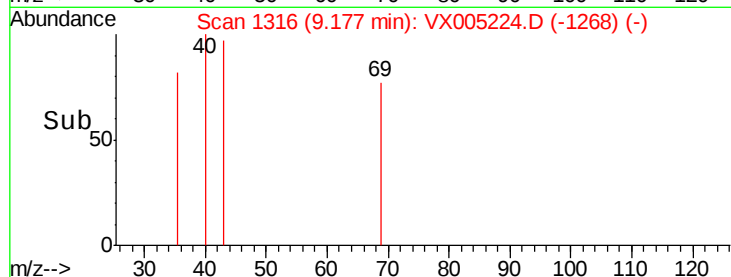
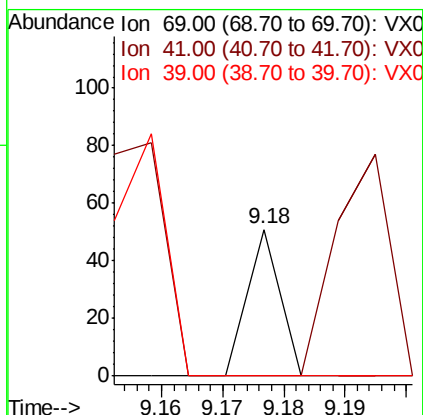
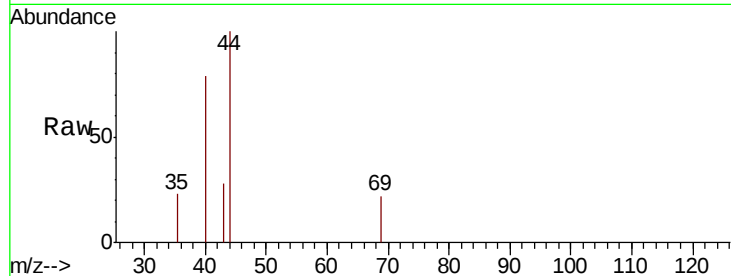




#56
 Ethyl methacrylate
 Concen: 2.867 ug/l
 RT: 9.18 min Scan# 1316
 Delta R.T. -0.01 min
 Lab File: VX005224.D
 Acq: 10 Oct 2018 23:09

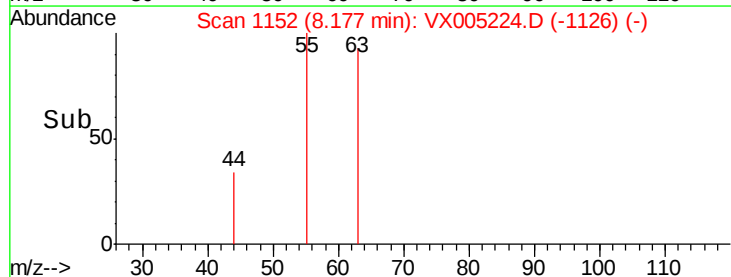
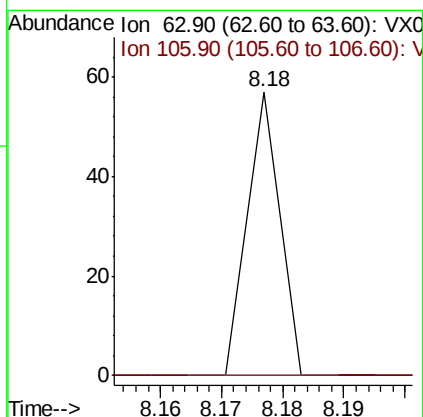
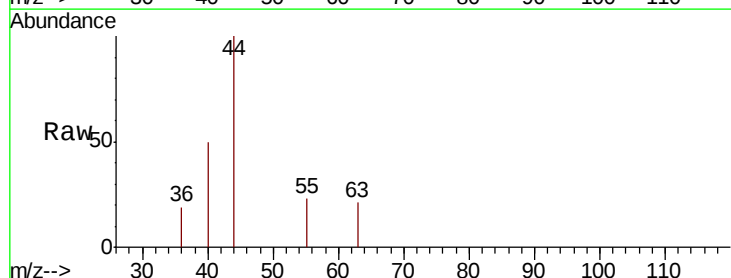
Instrument :
 MSVOA_X
 ClientSampleId :
 RE-109D2-20181005

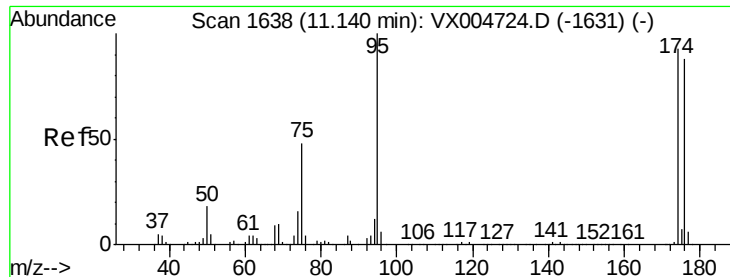
Tot Ion: 69 Resp: 19
 Ion Ratio Lower Upper
 69 100
 41 252.6 56.9 85.3#
 39 0.0 28.4 42.6#



#58
 2-Chloroethyl Vinyl ether
 Concen: 14.252 ug/l
 RT: 8.18 min Scan# 1152
 Delta R.T. -0.14 min
 Lab File: VX005224.D
 Acq: 10 Oct 2018 23:09

Tgt Ion: 63 Resp: 21
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.0 31.6#





#62

4-Bromofluorobenzene

Concen: 51.060 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

Instrument :

MSVOA_X

ClientSampleId :

RE-109D2-20181005

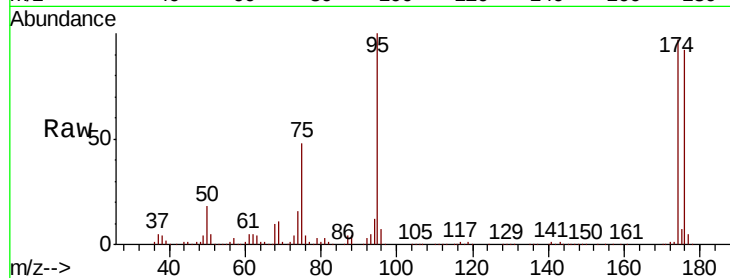
Tot Ion: 95 Resp: 135027

Ion Ratio Lower Upper

95 100

174 95.1 0.0 185.0

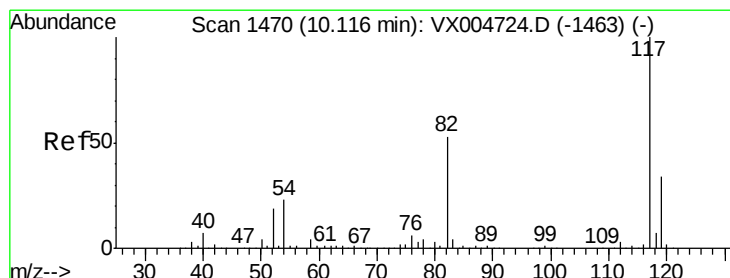
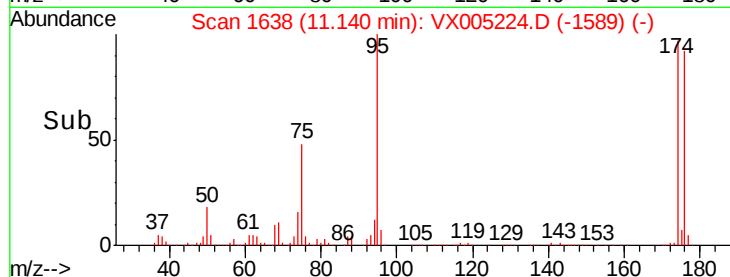
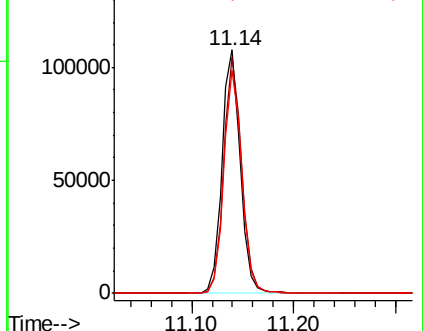
176 90.3 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): VX004724.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX004724.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX004724.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

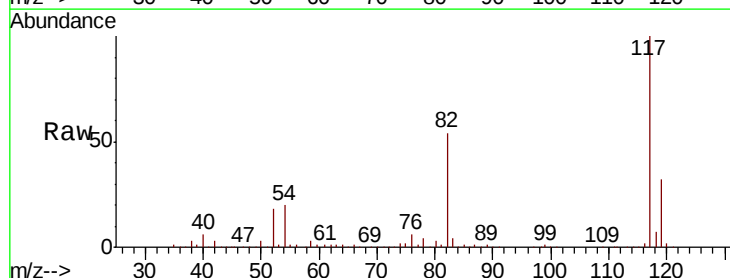
Tgt Ion: 117 Resp: 259419

Ion Ratio Lower Upper

117 100

82 54.4 42.2 63.4

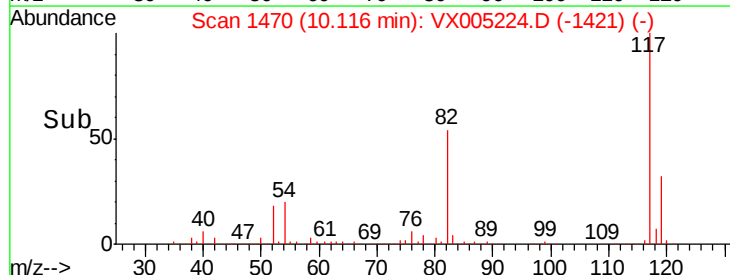
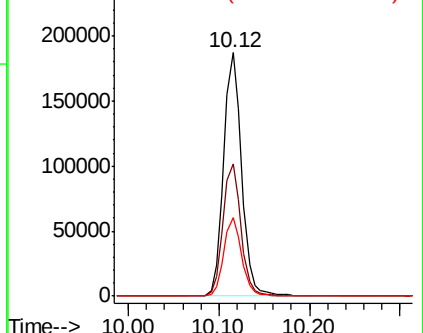
119 32.2 27.4 41.0

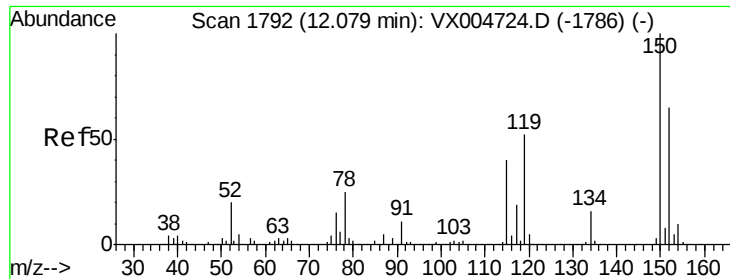


Abundance Ion 116.90 (116.60 to 117.60): VX004724.D (-1463) (-)

Ion 82.00 (81.70 to 82.70): VX004724.D (-1463) (-)

Ion 118.90 (118.60 to 119.60): VX004724.D (-1463) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

Instrument :

MSVOA_X

ClientSampleId :

RE-109D2-20181005

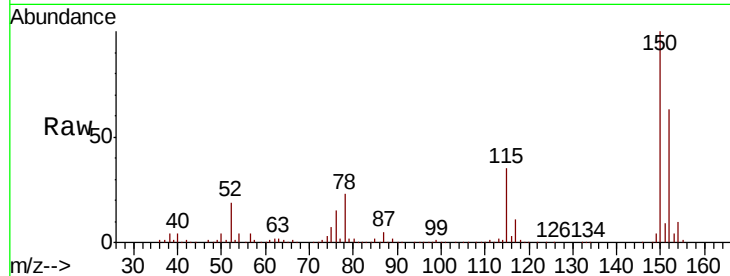
Tot Ion:152 Resp: 144616

Ion Ratio Lower Upper

152 100

115 54.4 40.2 120.6

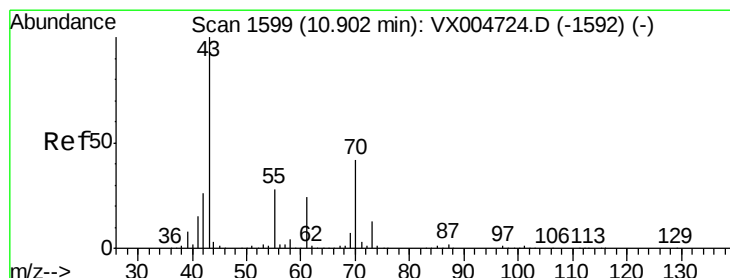
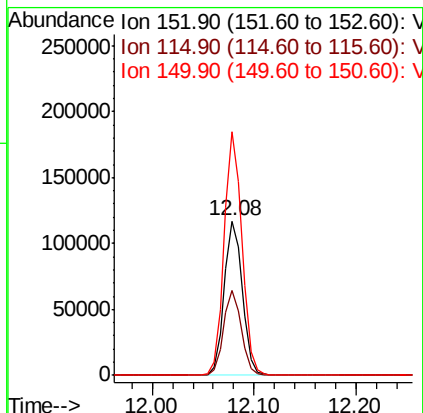
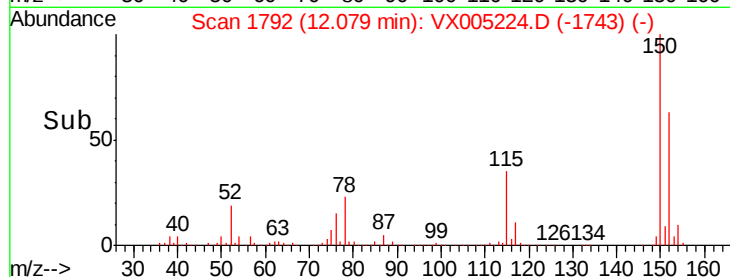
150 155.1 0.0 351.0



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: 1.752 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

Tgt Ion: 43 Resp: 22

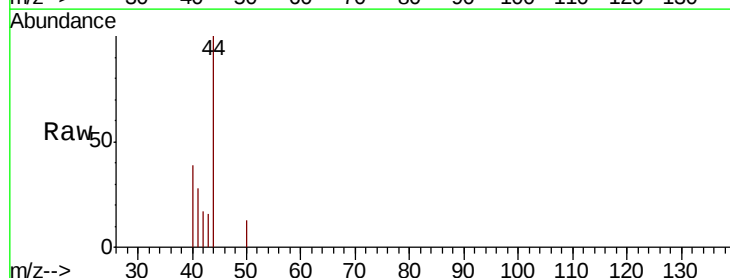
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 86.4 21.6 32.4#

61 0.0 19.1 28.7#

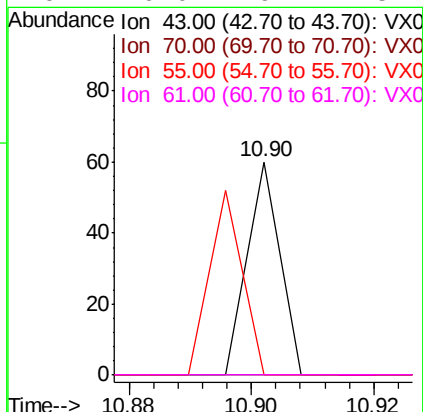
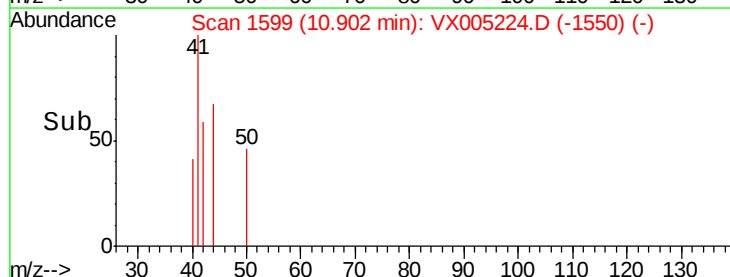


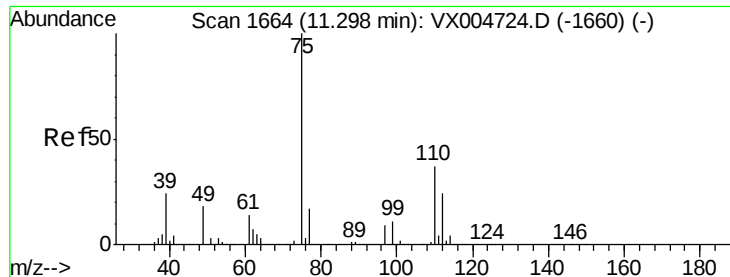
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.442 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

Instrument :

MSVOA_X

ClientSampleId :

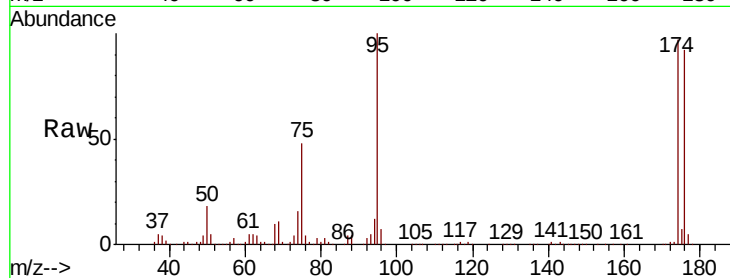
RE-109D2-20181005

Tot Ion: 75 Resp: 66259

Ion Ratio Lower Upper

75 100

77 1.3 21.4 64.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

60000

50000

40000

30000

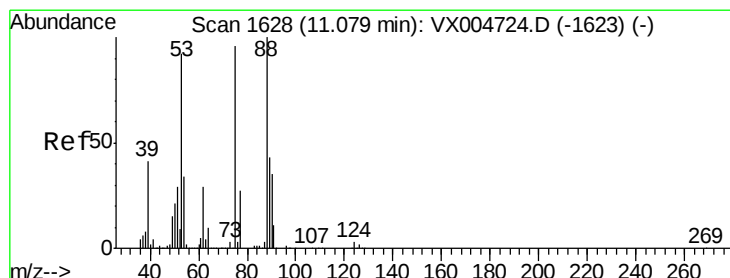
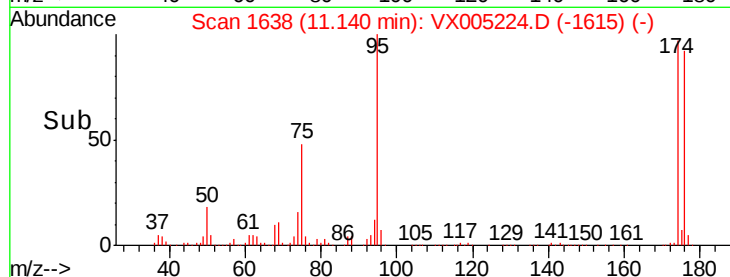
20000

10000

0

11.10 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 55.524 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005224.D

Acq: 10 Oct 2018 23:09

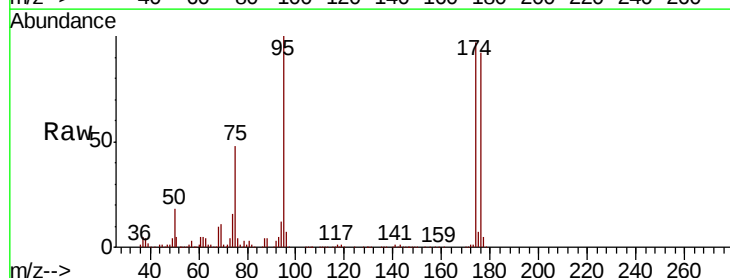
Tgt Ion: 75 Resp: 66259

Ion Ratio Lower Upper

75 100

53 0.4 80.2 120.4#

89 0.0 37.1 55.7#



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

60000

50000

40000

30000

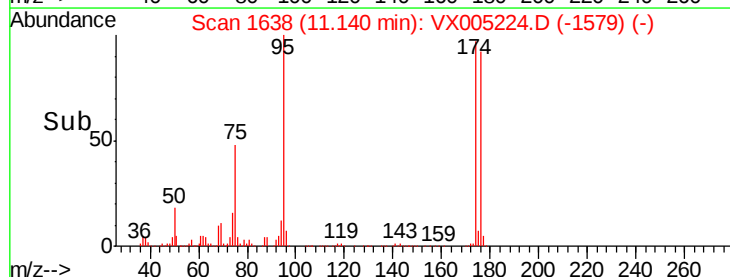
20000

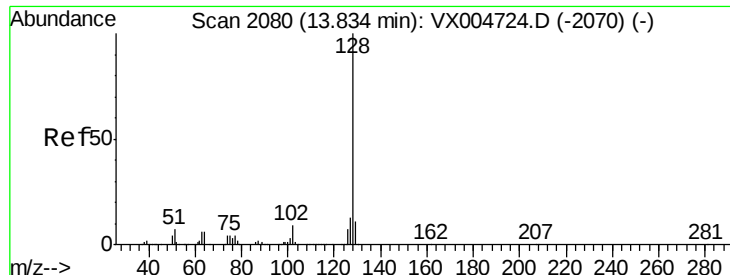
10000

0

11.10 11.20

Time-->





#95

Naphthalene

Concen: 0.742 ug/l

RT: 13.84 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX005224.D

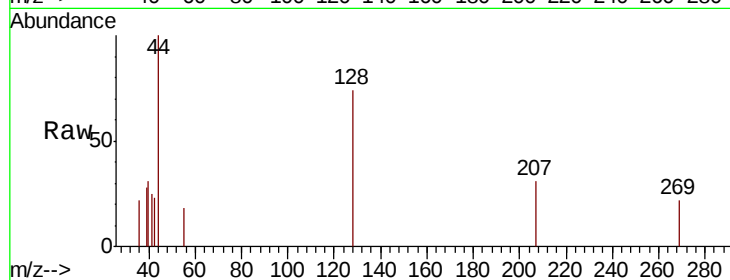
Acq: 10 Oct 2018 23:09

Instrument :

MSVOA_X

ClientSampleId :

RE-109D2-20181005



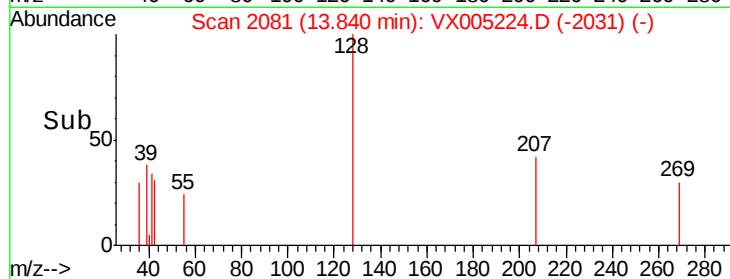
Tot Ion:128 Resp: 271

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 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

