

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072018\
 Data File : VX003539.D
 Acq On : 21 Jul 2018 05:21
 Operator : JC/SP
 Sample : J4014-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D1-071318

Quant Time: Jul 21 06:17:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	297505	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	418080	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	400051	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	220481	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	184886	52.50	ug/l	0.00
Spiked Amount			Recovery	=	105.00%	
35) Dibromofluoromethane	5.50	113	175176	55.01	ug/l	0.00
Spiked Amount			Recovery	=	110.02%	
50) Toluene-d8	8.72	98	612818	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
62) 4-Bromofluorobenzene	11.14	95	208177	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	

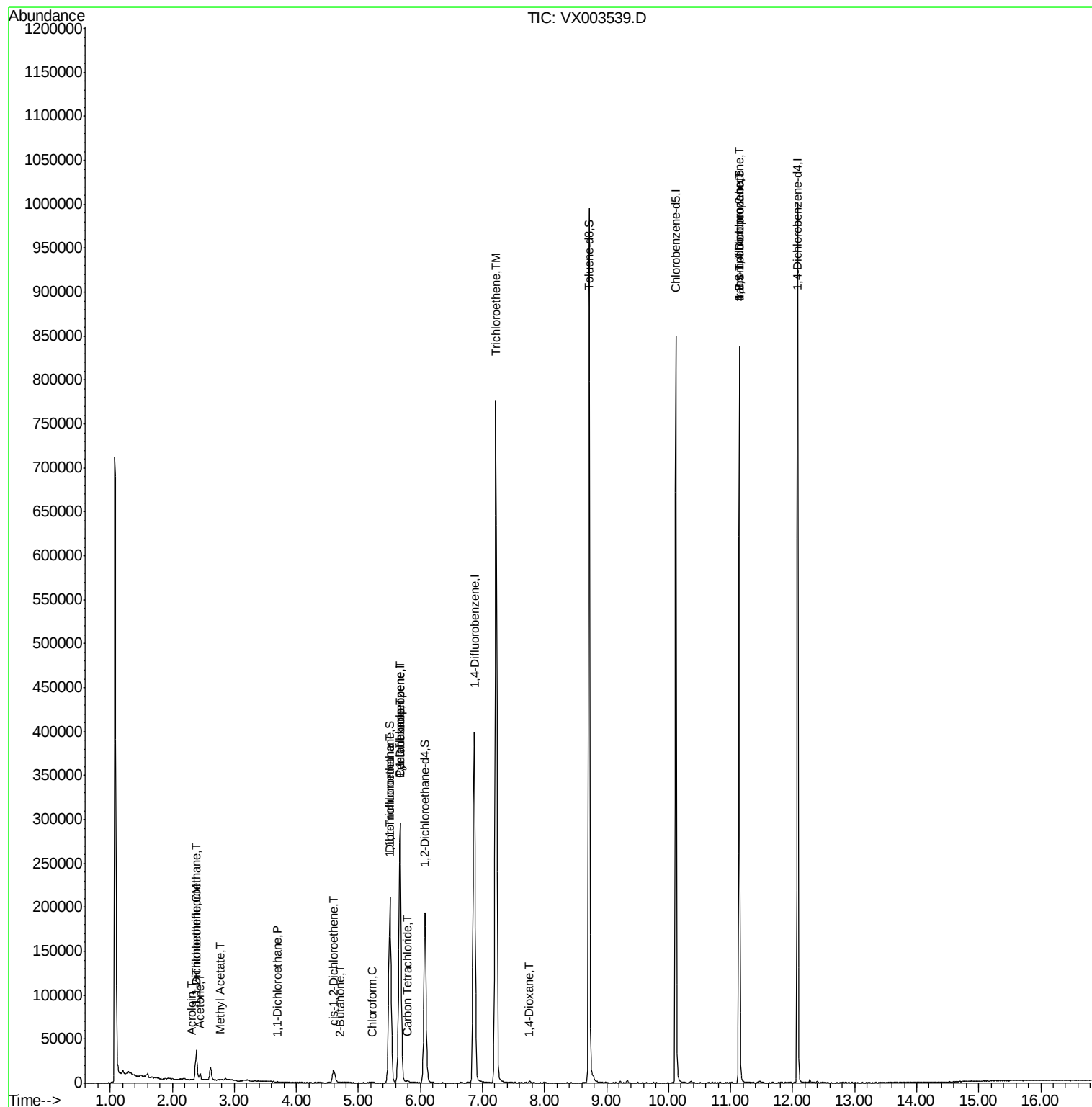
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	1252	Below Cal		91
3) Chloromethane	1.33	50	797	Below Cal		91
5) Bromomethane	1.66	94	998	Below Cal		87
9) 1,1,2-Trichlorotrifluoroet	2.39	101	12074	3.66	ug/l	99
12) 1,1-Dichloroethene	2.38	96	2224	0.73	ug/l #	74
13) Acrolein	2.31	56	84	0.27	ug/l	87
16) Acetone	2.45	43	7269	5.46	ug/l #	80
18) Methyl Acetate	2.78	43	857	0.20	ug/l #	87
20) Methylene Chloride	2.86	84	890	Below Cal	#	62
24) 1,1-Dichloroethane	3.70	63	1261	0.21	ug/l #	83
25) 2-Butanone	4.71	43	901	0.40	ug/l	94
27) cis-1,2-Dichloroethene	4.60	96	5667	1.51	ug/l #	1
30) Chloroform	5.22	83	1539	0.27	ug/l	88
31) Cyclohexane	5.67	56	4960	0.93	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	1529	0.31	ug/l #	51
36) 1,1-Dichloropropene	5.67	75	19128	4.24	ug/l #	50
38) Carbon Tetrachloride	5.78	117	933	0.21	ug/l #	65
44) Trichloroethene	7.21	130	328563	80.84	ug/l	99
49) 1,4-Dioxane	7.76	88	1343	17.30	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	95681	24.16	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	95681	67.73	ug/l #	7

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003539.D

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Instrument :

MSVOA_X

ClientSampleId :

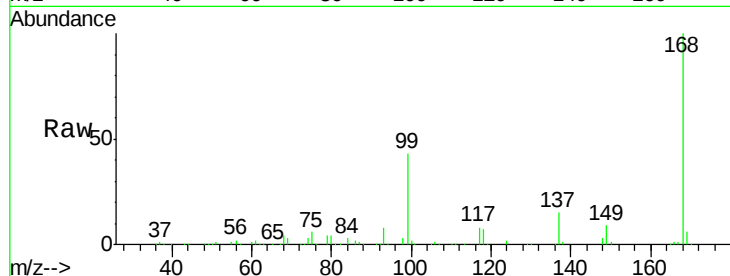
RE105D1-071318

Tot Ion:168 Resp: 297505

Ion Ratio Lower Upper

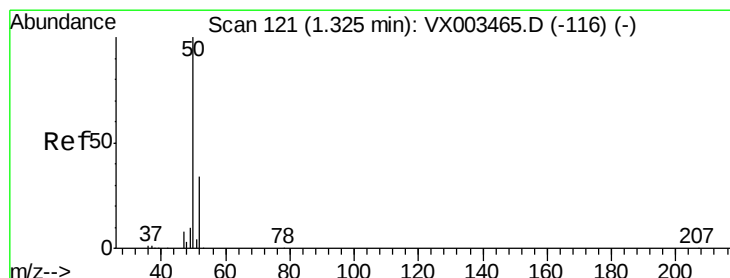
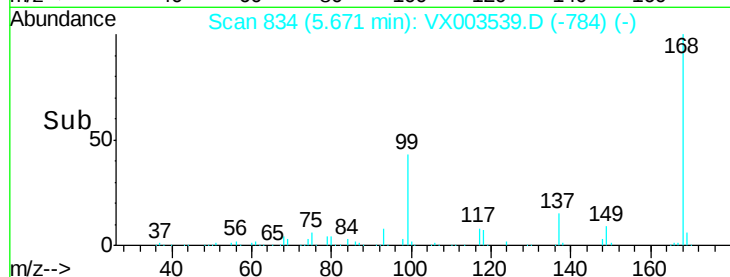
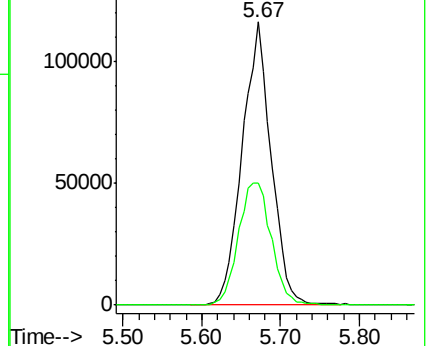
168 100

99 43.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003539.D

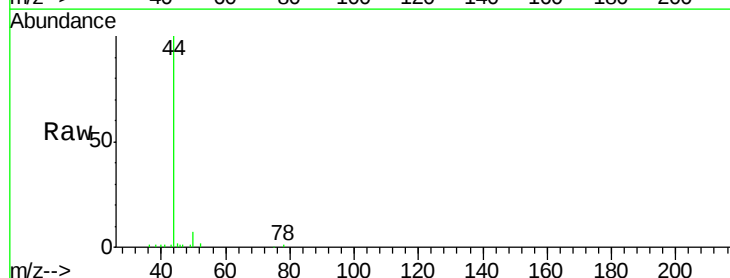
Acq: 21 Jul 2018 05:21

Tgt Ion: 50 Resp: 797

Ion Ratio Lower Upper

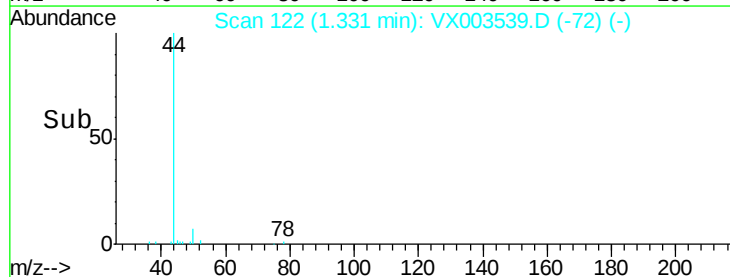
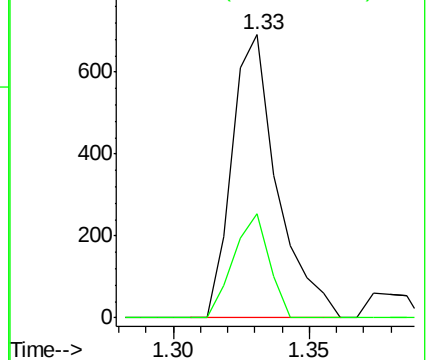
50 100

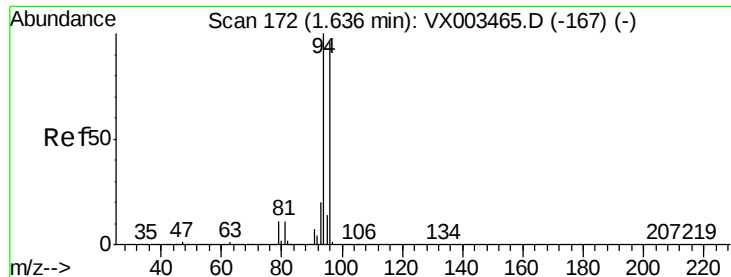
52 36.9 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

Instrument :

MSVOA_X

ClientSampleId :

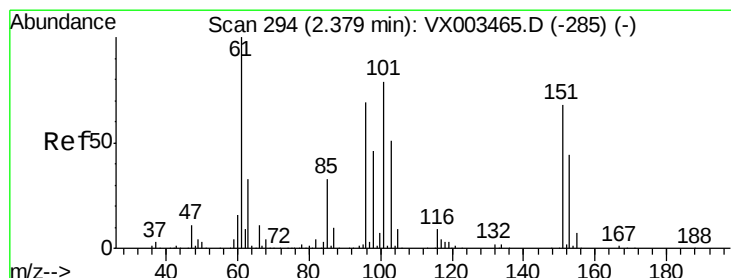
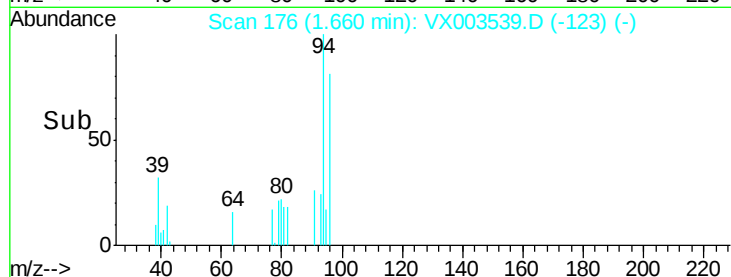
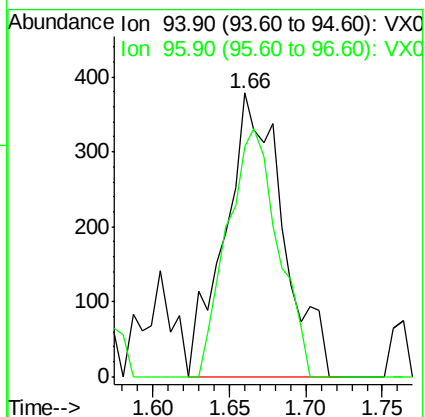
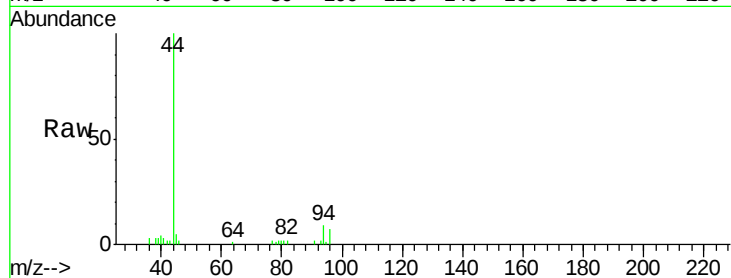
RE105D1-071318

Tot Ion: 94 Resp: 998

Ion Ratio Lower Upper

94 100

96 81.2 74.9 112.3



#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.66 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

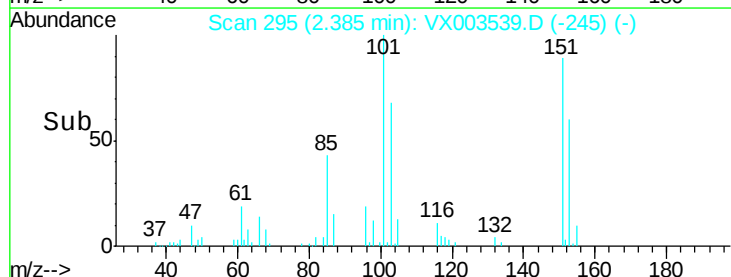
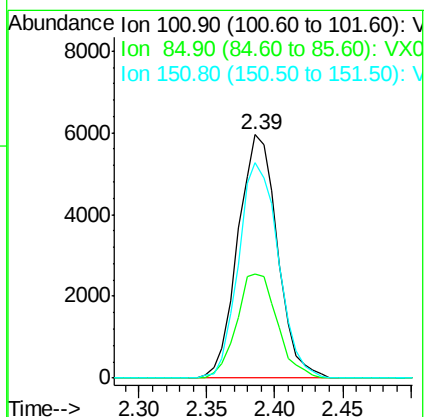
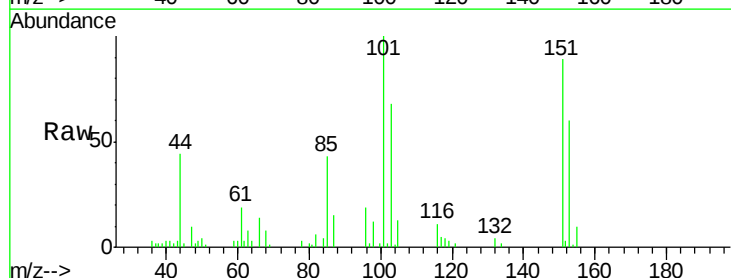
Tgt Ion:101 Resp: 12074

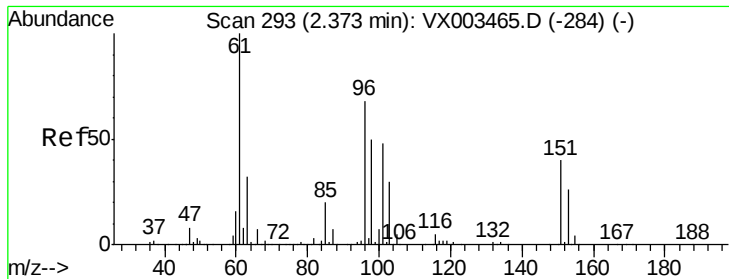
Ion Ratio Lower Upper

101 100

85 43.9 36.0 54.0

151 89.6 70.9 106.3





#12

1,1-Dichloroethene

Concen: 0.73 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.01 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

Instrument :

MSVOA_X

ClientSampleId :

RE105D1-071318

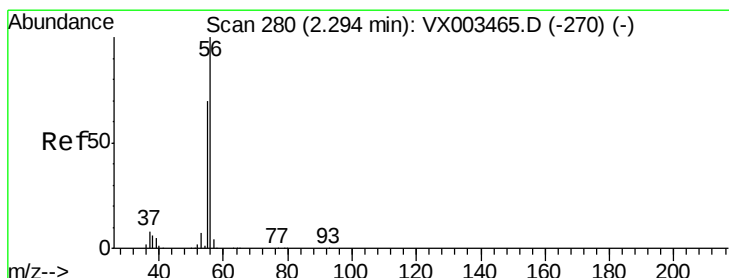
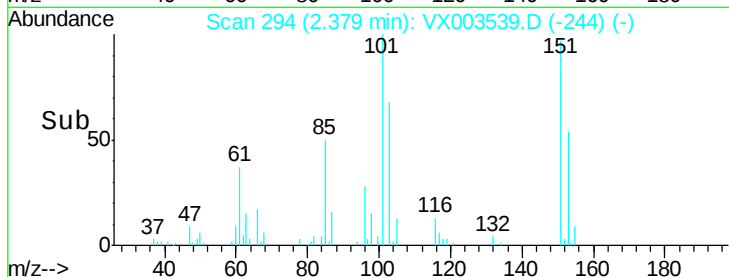
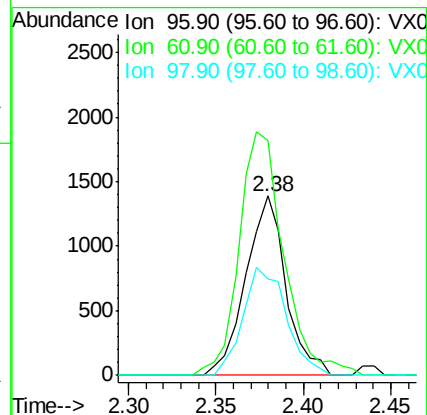
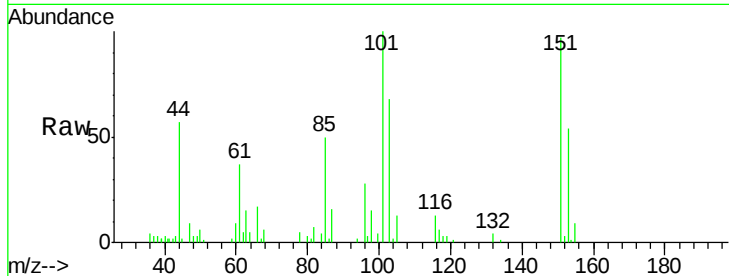
Tot Ion: 96 Resp: 2224

Ion Ratio Lower Upper

96 100

61 130.6 137.9 206.9#

98 53.9 51.6 77.4



#13

Acrolein

Concen: 0.27 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX003539.D

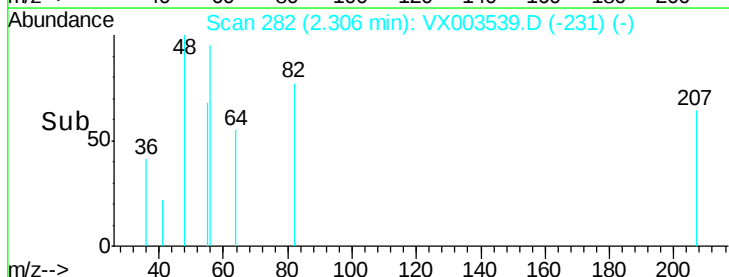
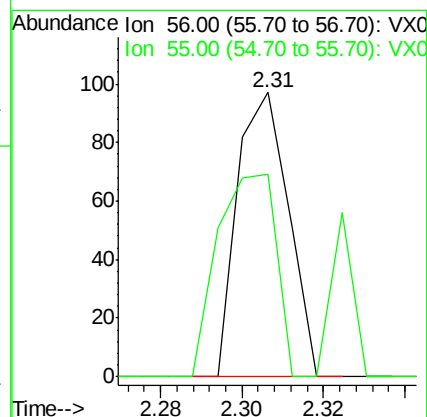
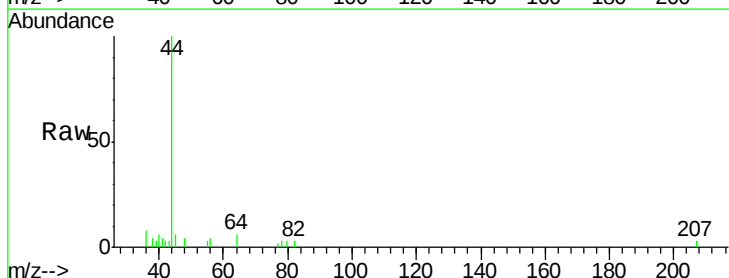
Acq: 21 Jul 2018 05:21

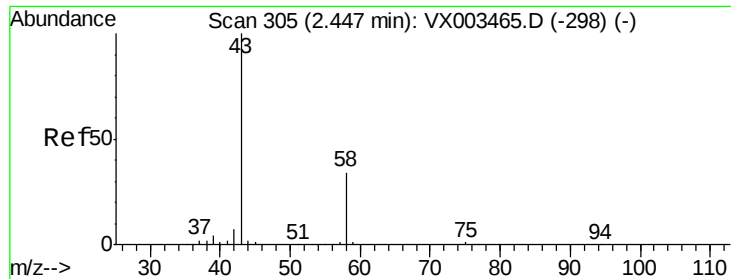
Tgt Ion: 56 Resp: 84

Ion Ratio Lower Upper

56 100

55 82.1 57.0 85.4





#16

Acetone

Concen: 5.46 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

Instrument :

MSVOA_X

ClientSampleId :

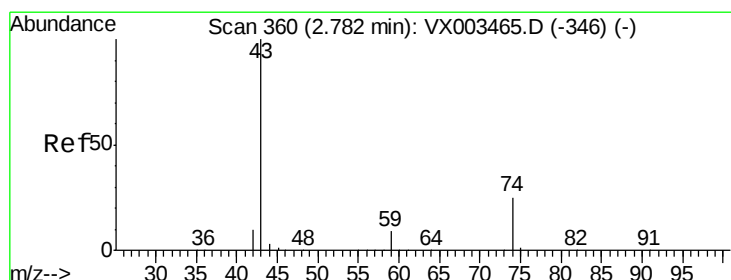
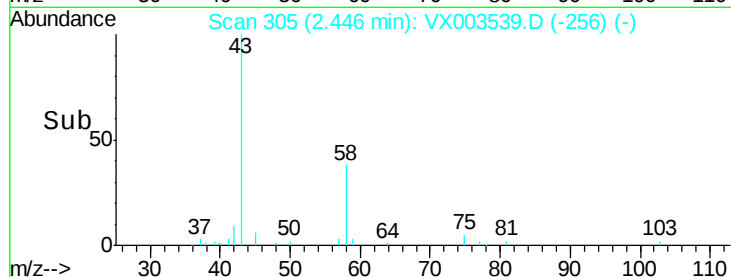
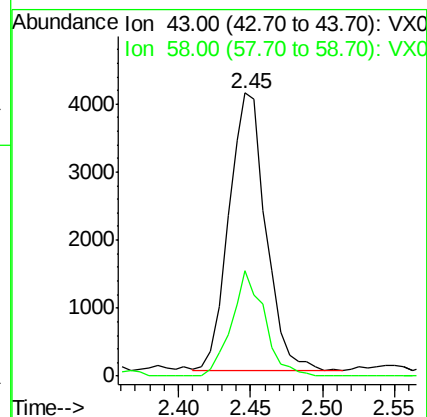
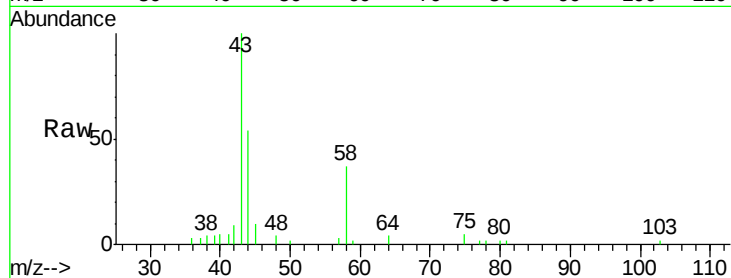
RE105D1-071318

Tot Ion: 43 Resp: 7269

Ion Ratio Lower Upper

43 100

58 38.0 22.1 33.1#



#18

Methyl Acetate

Concen: 0.20 ug/l

RT: 2.78 min Scan# 359

Delta R.T. -0.01 min

Lab File: VX003539.D

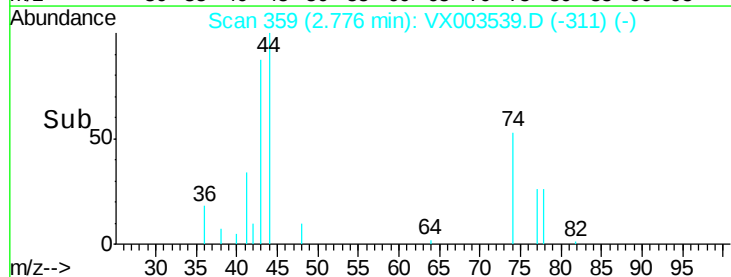
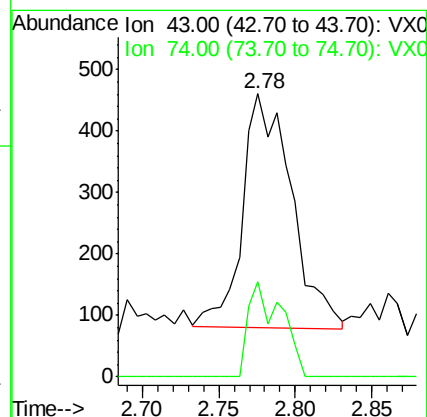
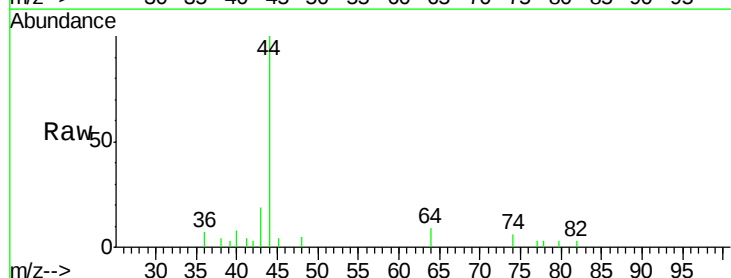
Acq: 21 Jul 2018 05:21

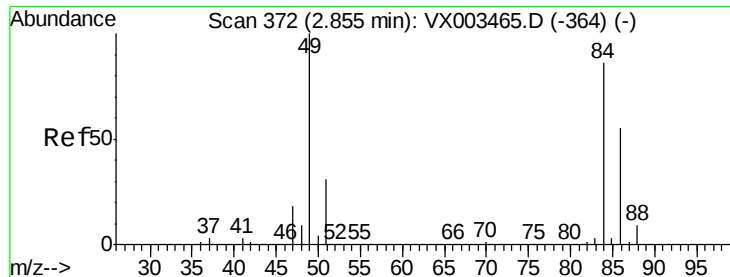
Tgt Ion: 43 Resp: 857

Ion Ratio Lower Upper

43 100

74 27.1 16.7 25.1#

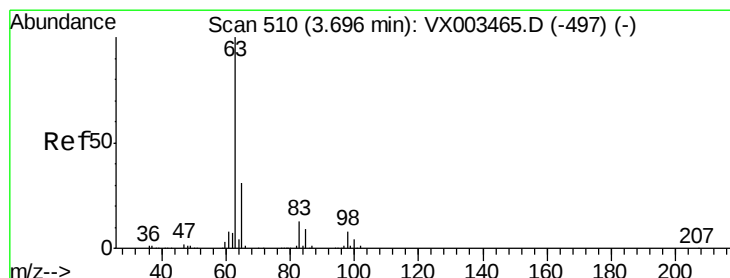
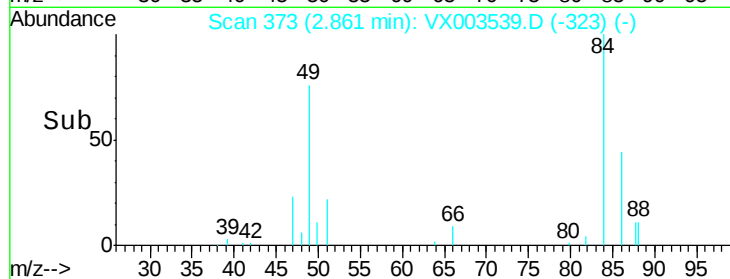
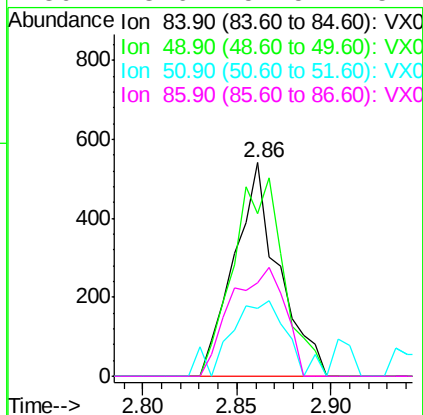
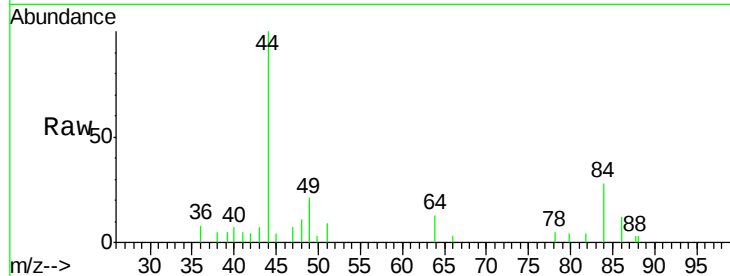




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003539.D
Acq: 21 Jul 2018 05:21

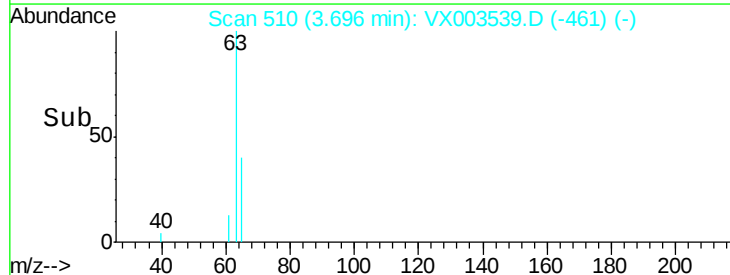
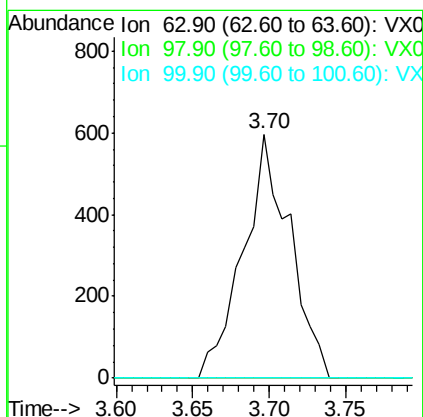
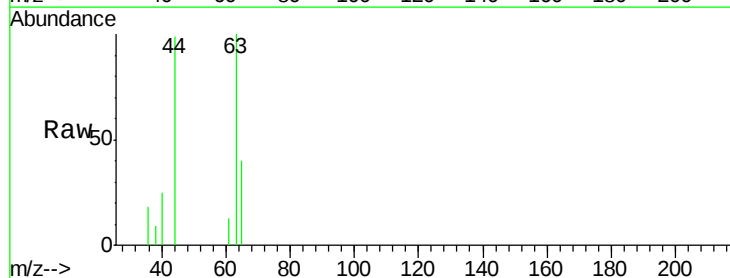
Instrument :
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RE105D1-071318

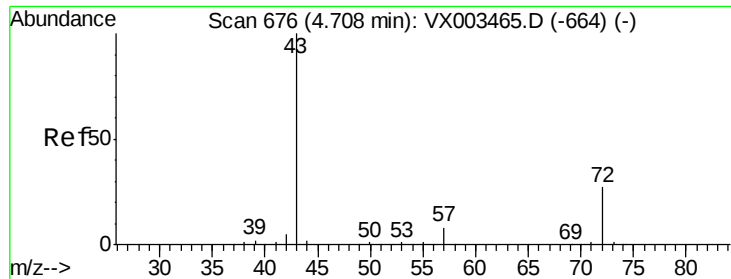
Tot Ion: 84 Resp: 890
Ion Ratio Lower Upper
84 100
49 76.2 107.8 161.6#
51 31.8 32.8 49.2#
86 43.6 52.5 78.7#



#24
1,1-Dichloroethane
Concen: 0.21 ug/l
RT: 3.70 min Scan# 510
Delta R.T. -0.00 min
Lab File: VX003539.D
Acq: 21 Jul 2018 05:21

Tgt Ion: 63 Resp: 1261
Ion Ratio Lower Upper
63 100
98 0.0 3.4 10.2#
100 0.0 2.0 6.0#





#25

2-Butanone

Concen: 0.40 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

Instrument :

MSVOA_X

ClientSampleId :

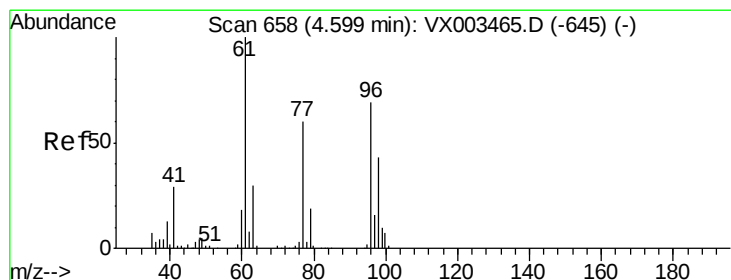
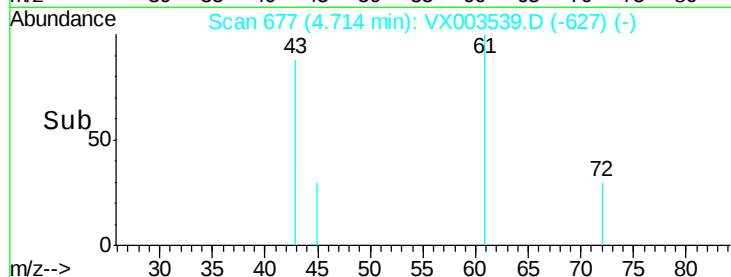
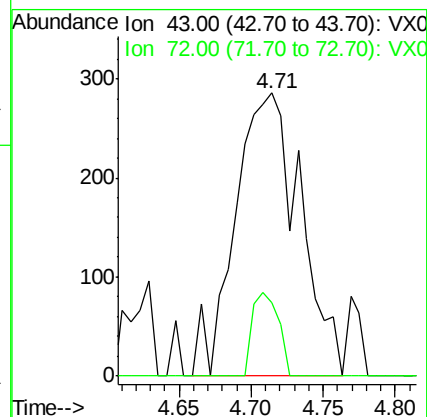
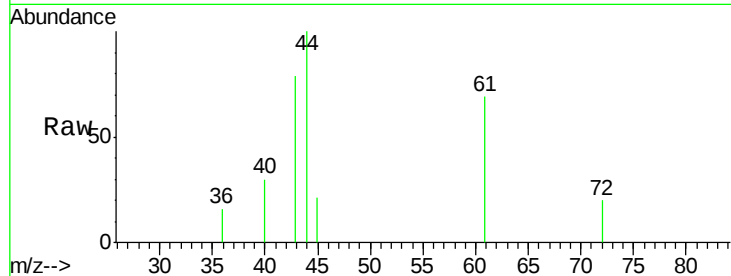
RE105D1-071318

Tot Ion: 43 Resp: 901

Ion Ratio Lower Upper

43 100

72 25.9 18.5 27.7



#27

cis-1,2-Dichloroethene

Concen: 1.51 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

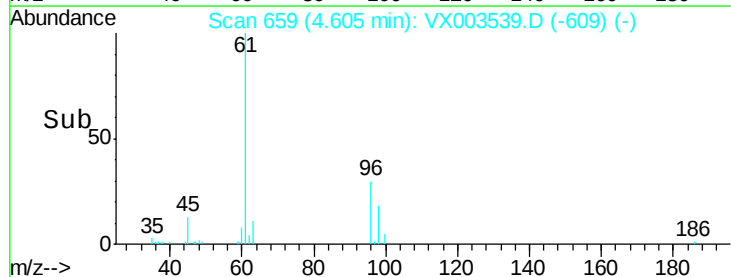
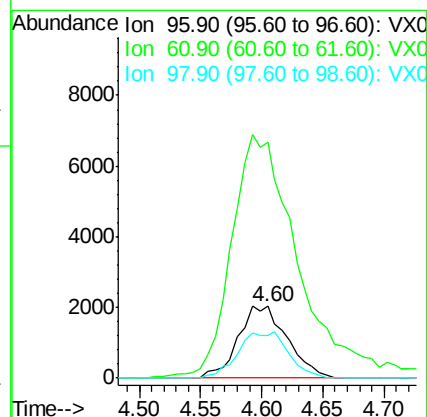
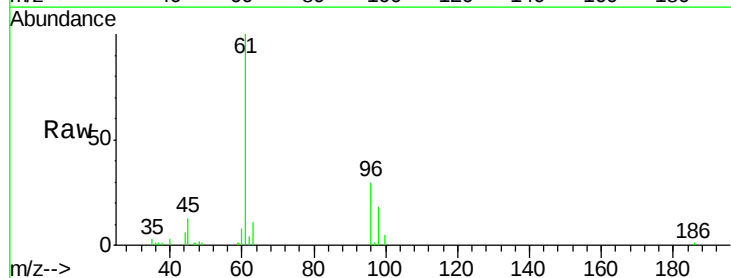
Tgt Ion: 96 Resp: 5667

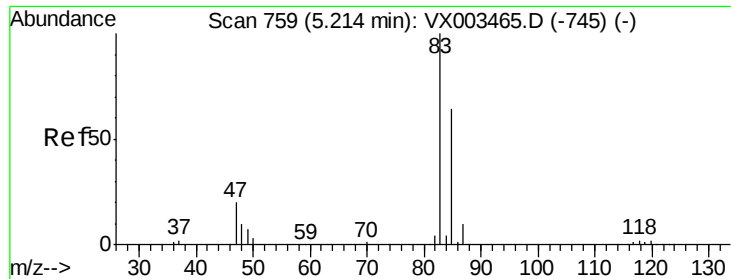
Ion Ratio Lower Upper

96 100

61 472.2 0.0 330.2#

98 64.9 0.0 130.2

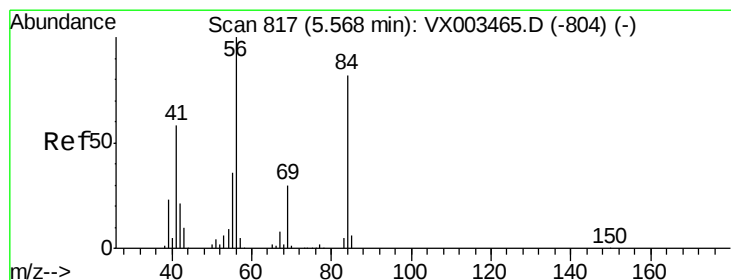
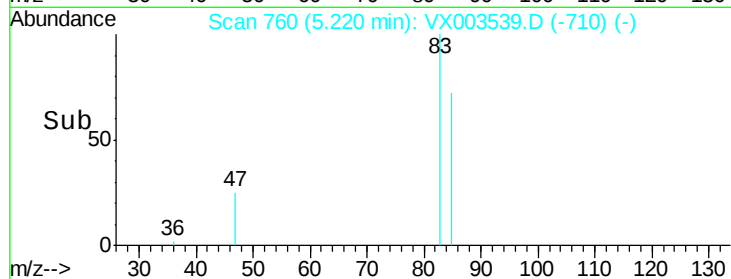
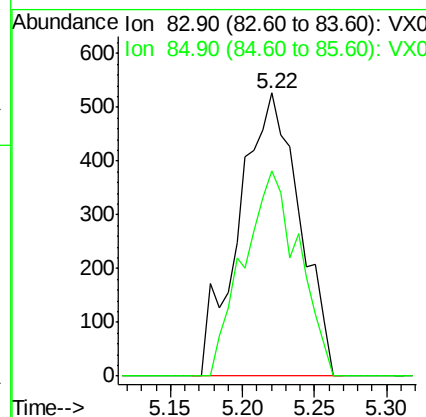
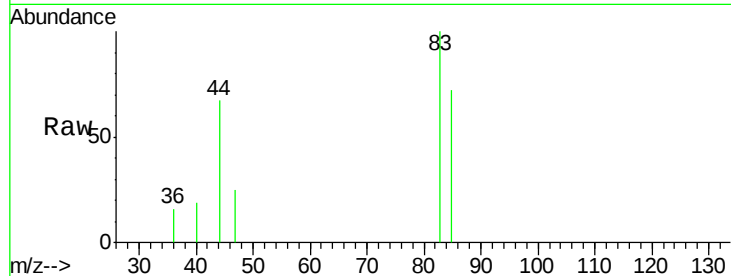




#30
Chloroform
Concen: 0.27 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.01 min
Lab File: VX003539.D
Acq: 21 Jul 2018 05:21

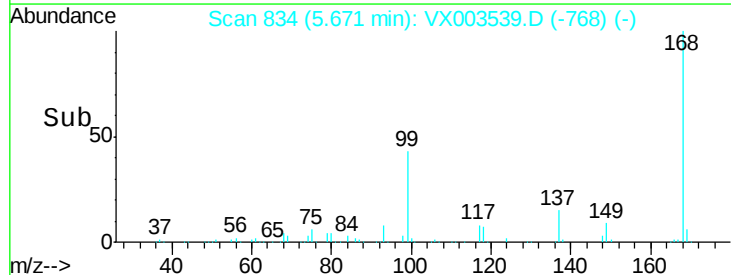
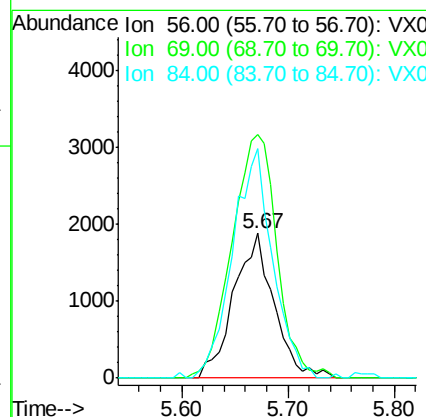
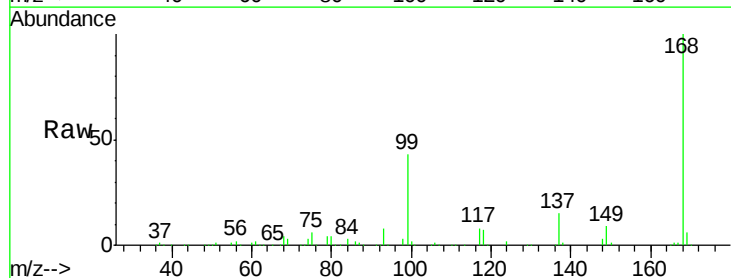
Instrument :
MSVOA_X
ClientSampleId :
RE105D1-071318

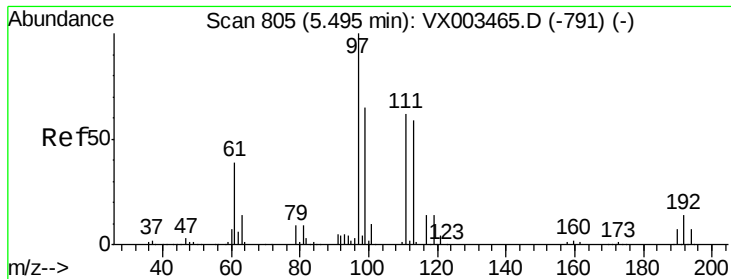
Tot Ion: 83 Resp: 1539
Ion Ratio Lower Upper
83 100
85 72.5 50.4 75.6



#31
Cyclohexane
Concen: 0.93 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.10 min
Lab File: VX003539.D
Acq: 21 Jul 2018 05:21

Tgt Ion: 56 Resp: 4960
Ion Ratio Lower Upper
56 100
69 168.2 23.7 35.5#
84 158.1 64.1 96.1#





#32

1,1,1-Trichloroethane

Concen: 0.31 ug/l

RT: 5.49 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

Instrument :

MSVOA_X

ClientSampleId :

RE105D1-071318

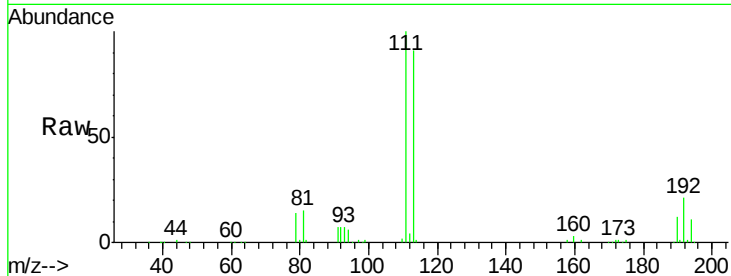
Tot Ion: 97 Resp: 1529

Ion Ratio Lower Upper

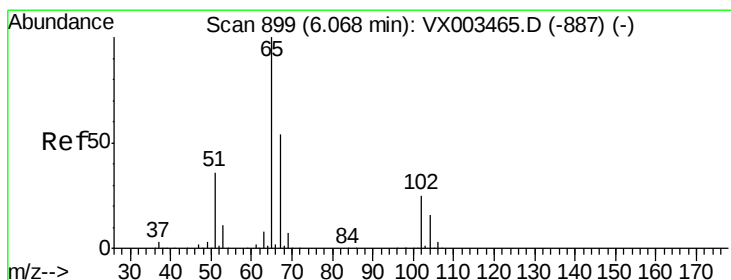
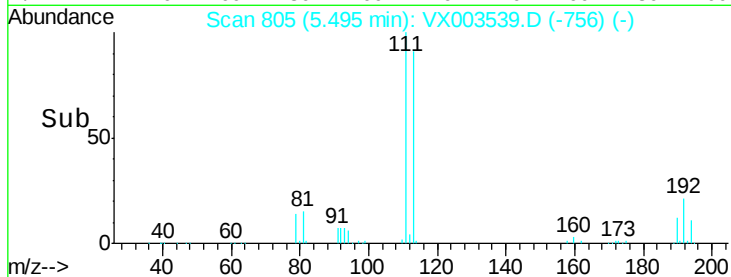
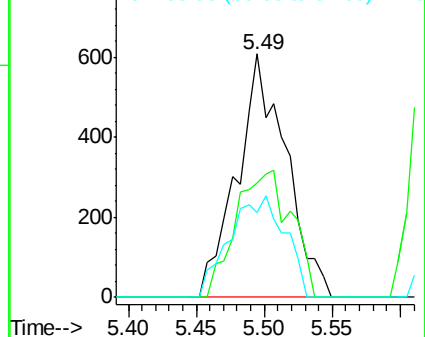
97 100

99 0.0 51.6 77.4#

61 47.0 36.4 54.6



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: 52.50 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003539.D

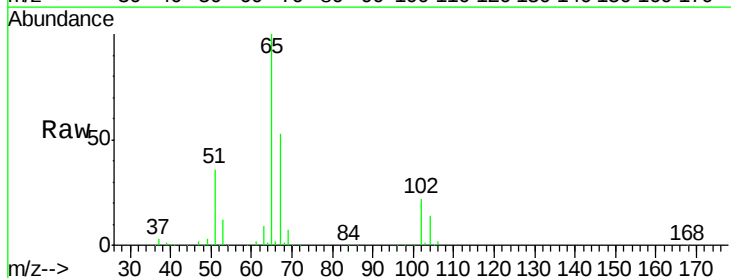
Acq: 21 Jul 2018 05:21

Tgt Ion: 65 Resp: 184886

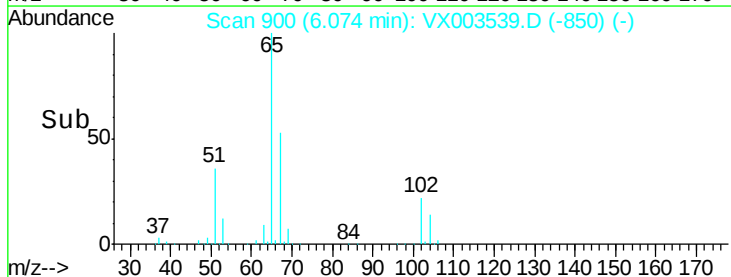
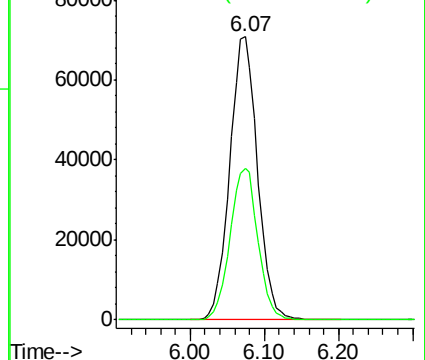
Ion Ratio Lower Upper

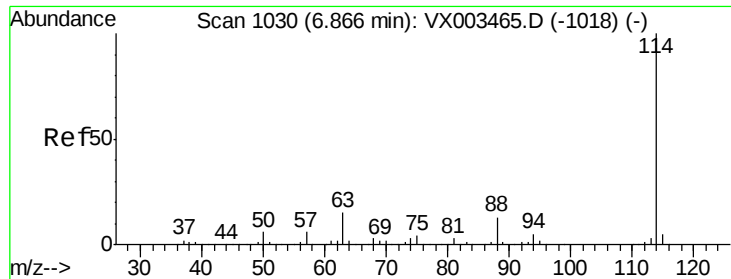
65 100

67 53.8 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

Instrument :

MSVOA_X

ClientSampleId :

RE105D1-071318

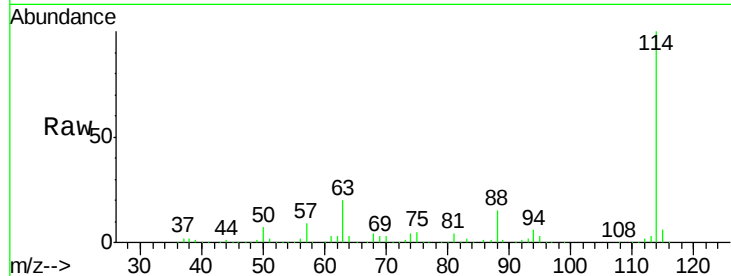
Tot Ion:114 Resp: 418080

Ion Ratio Lower Upper

114 100

63 19.6 0.0 41.4

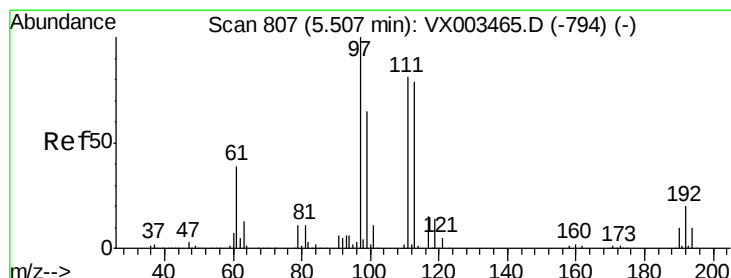
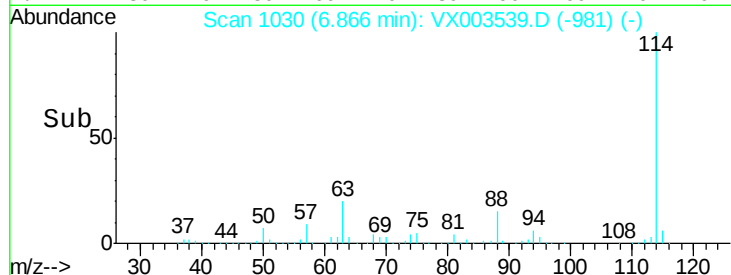
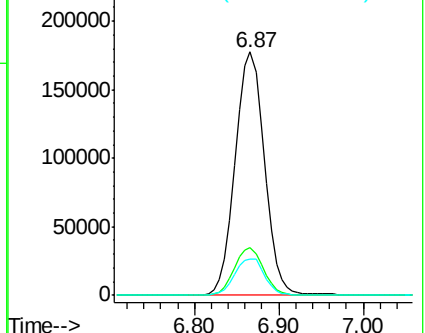
88 15.0 0.0 30.0



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: 55.01 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

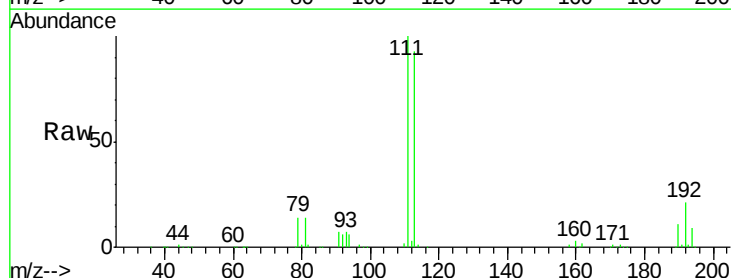
Tgt Ion:113 Resp: 175176

Ion Ratio Lower Upper

113 100

111 105.3 81.4 122.0

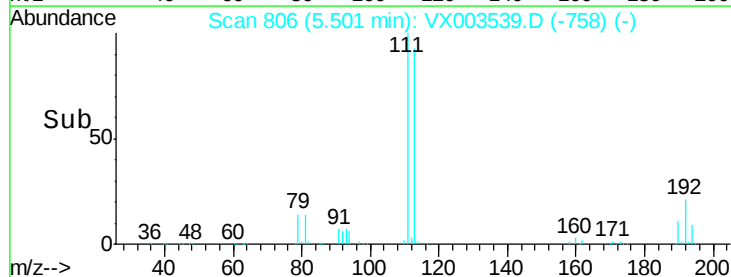
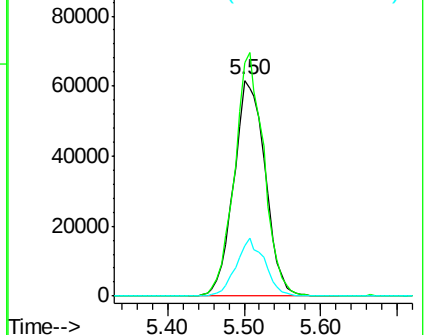
192 24.5 19.1 28.7

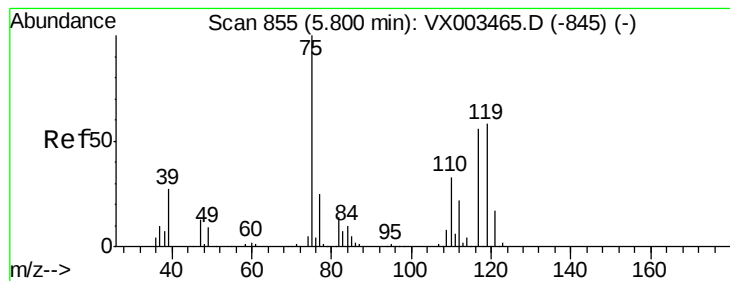


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.24 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

Instrument :

MSVOA_X

ClientSampleId :

RE105D1-071318

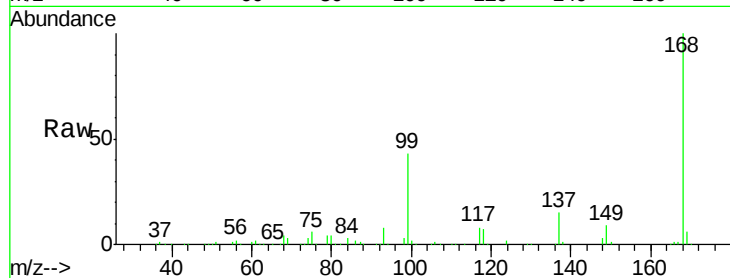
Tot Ion: 75 Resp: 19128

Ion Ratio Lower Upper

75 100

110 9.8 18.1 54.4#

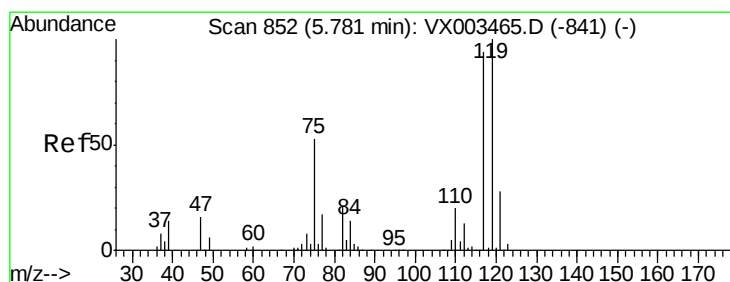
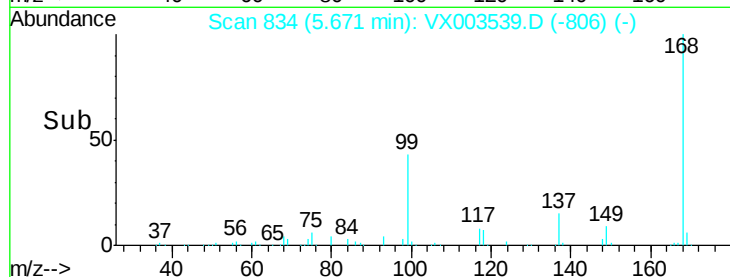
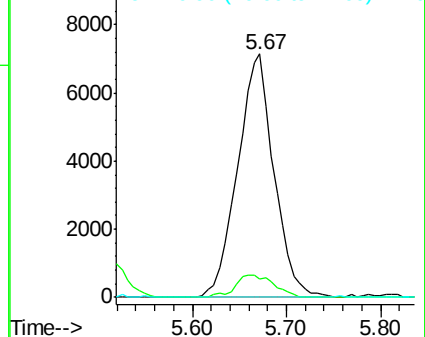
77 0.0 24.3 36.5#



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: 0.21 ug/l

RT: 5.78 min Scan# 852

Delta R.T. -0.00 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

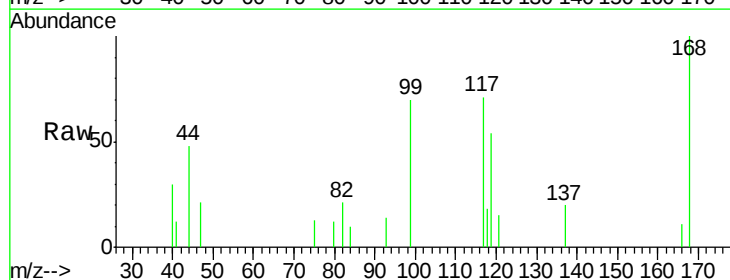
Tgt Ion: 117 Resp: 933

Ion Ratio Lower Upper

117 100

119 57.0 77.4 116.0#

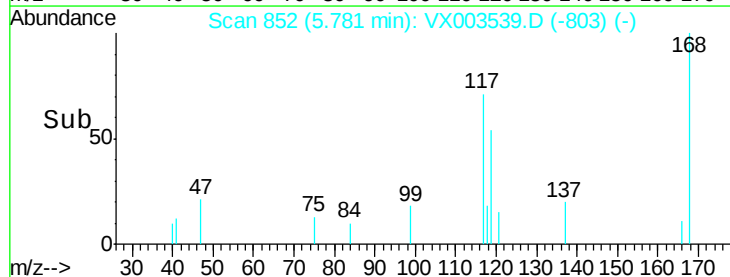
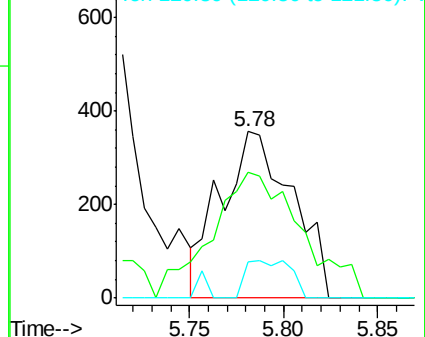
121 21.6 24.4 36.6#

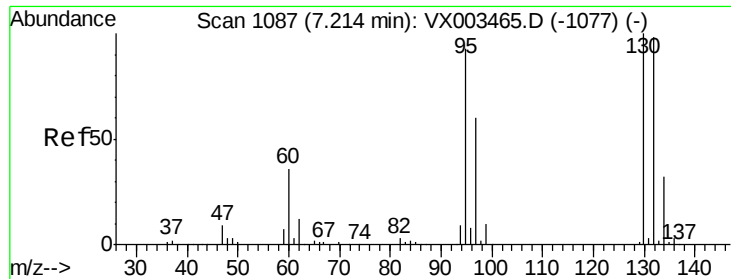


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 80.84 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

Instrument :

MSVOA_X

ClientSampleId :

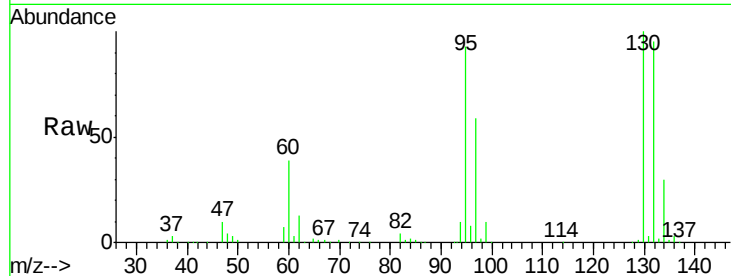
RE105D1-071318

Tot Ion:130 Resp: 328563

Ion Ratio Lower Upper

130 100

95 93.4 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

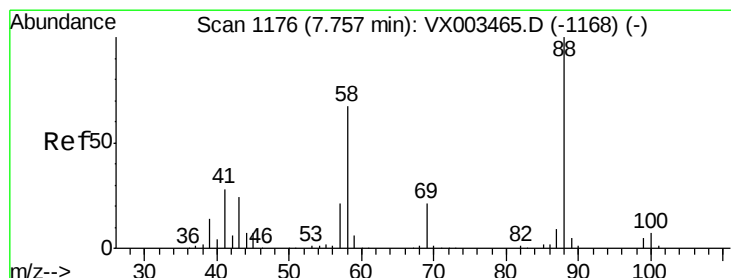
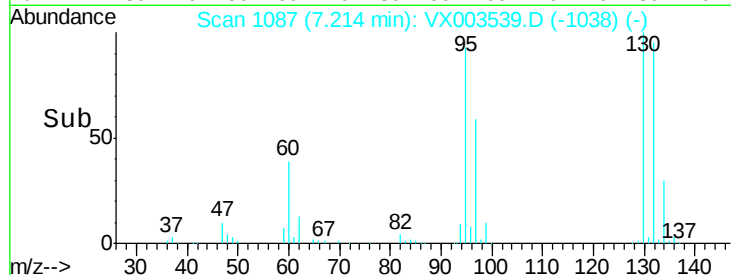
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 17.30 ug/l

RT: 7.76 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

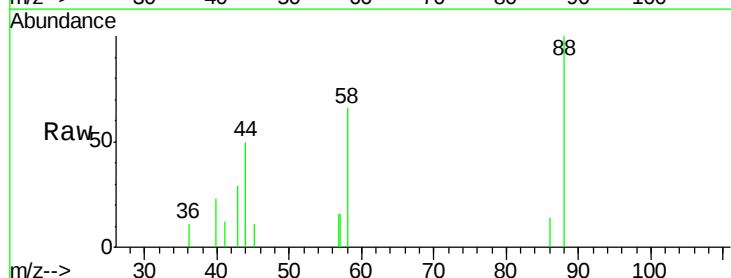
Tgt Ion: 88 Resp: 1343

Ion Ratio Lower Upper

88 100

43 44.5 29.8 44.6

58 69.5 57.1 85.7



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

7.76

800

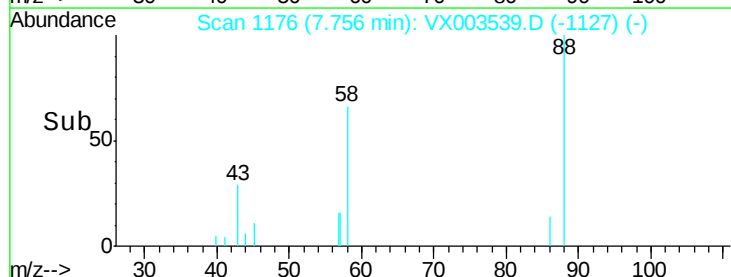
600

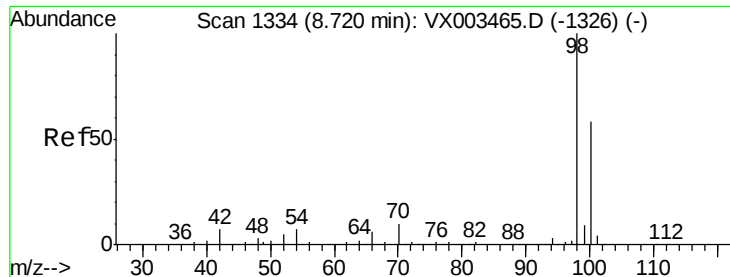
400

200

0

Time-->





#50

Toluene-d8

Concen: 51.20 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

Instrument :

MSVOA_X

ClientSampleId :

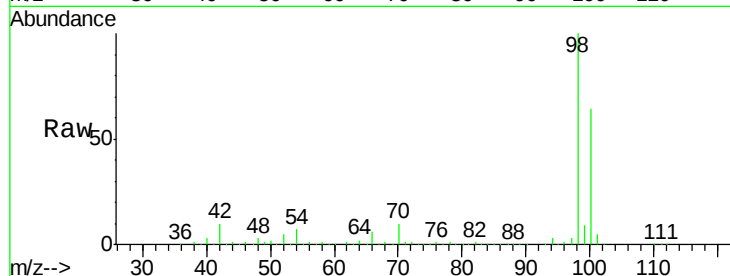
RE105D1-071318

Tot Ion: 98 Resp: 612818

Ion Ratio Lower Upper

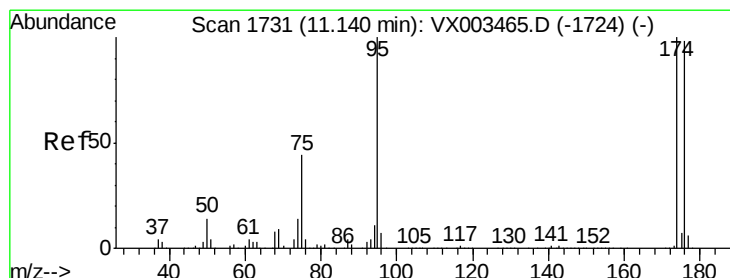
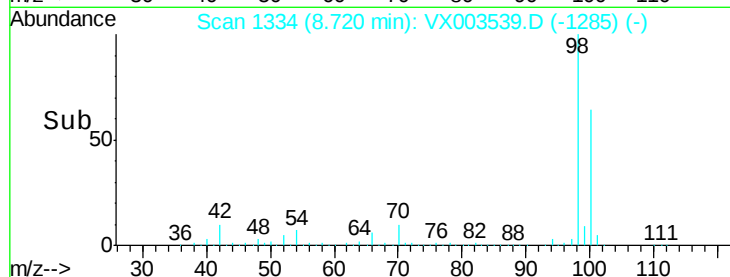
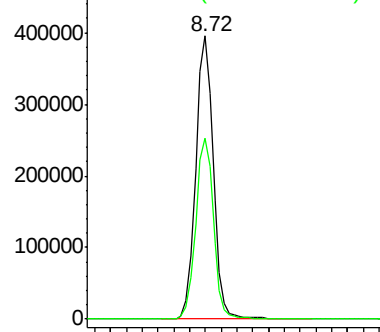
98 100

100 64.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 47.66 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

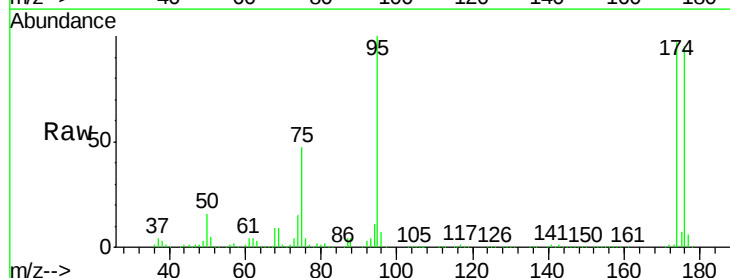
Tgt Ion: 95 Resp: 208177

Ion Ratio Lower Upper

95 100

174 98.1 0.0 187.4

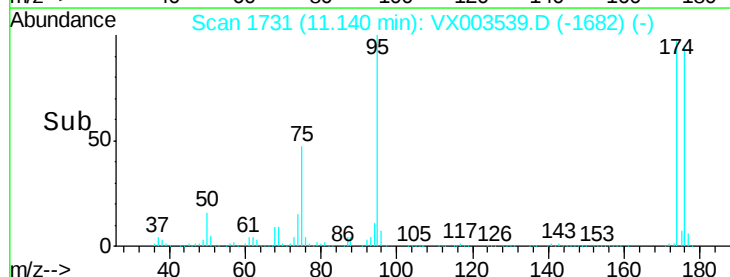
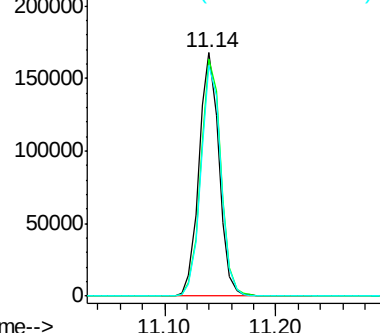
176 94.8 0.0 181.0

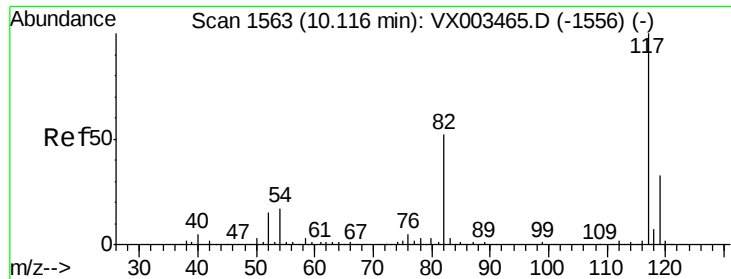


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

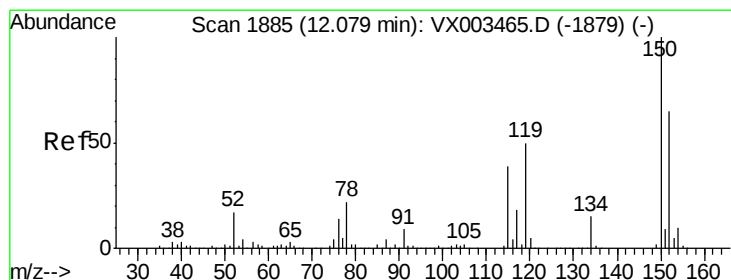
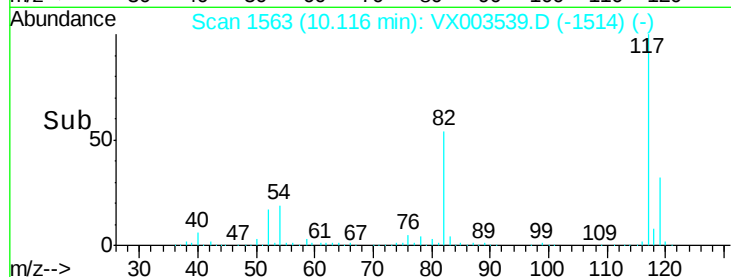
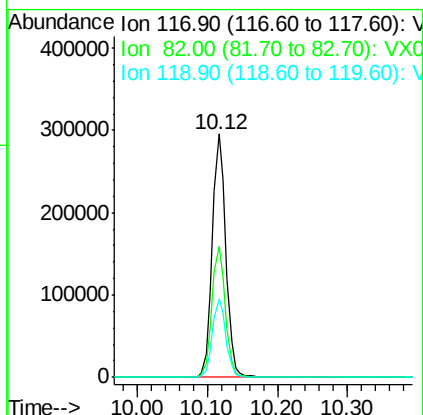
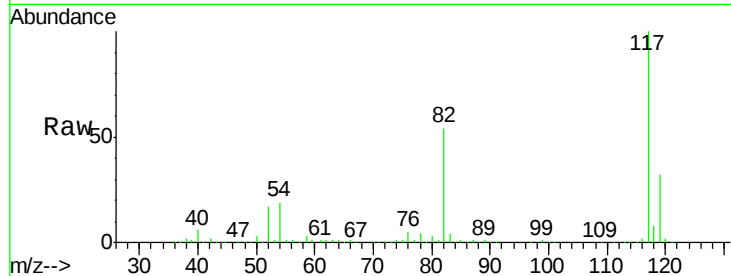




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003539.D
Acq: 21 Jul 2018 05:21

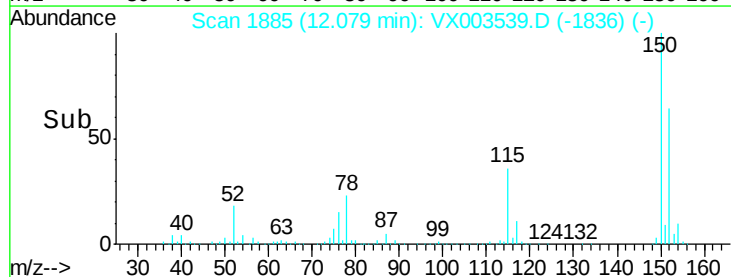
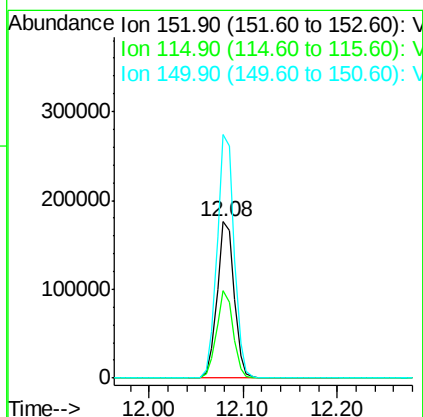
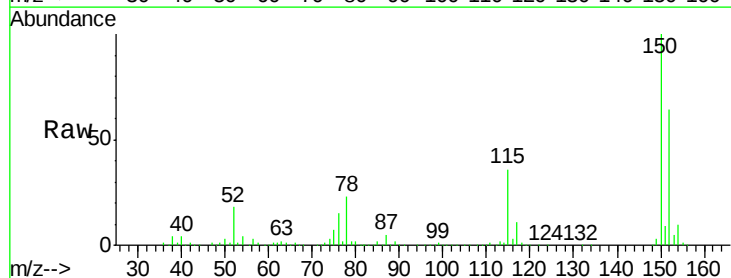
Instrument :
MSVOA_X
ClientSampleId :
RE105D1-071318

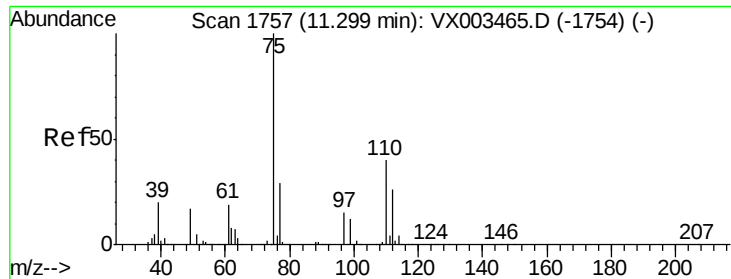
Tot Ion:117 Resp: 400051
Ion Ratio Lower Upper
117 100
82 54.0 45.0 67.4
119 32.5 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX003539.D
Acq: 21 Jul 2018 05:21

Tgt Ion:152 Resp: 220481
Ion Ratio Lower Upper
152 100
115 54.7 40.1 120.2
150 156.5 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 24.16 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

Instrument :

MSVOA_X

ClientSampleId :

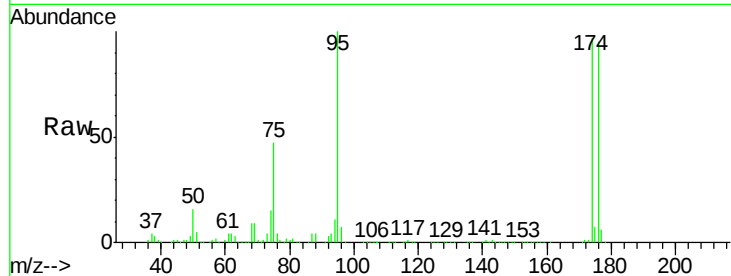
RE105D1-071318

Tot Ion: 75 Resp: 95681

Ion Ratio Lower Upper

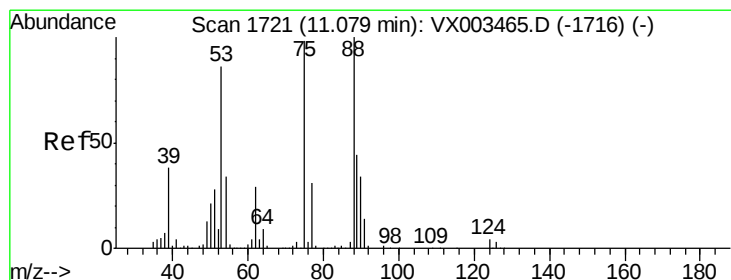
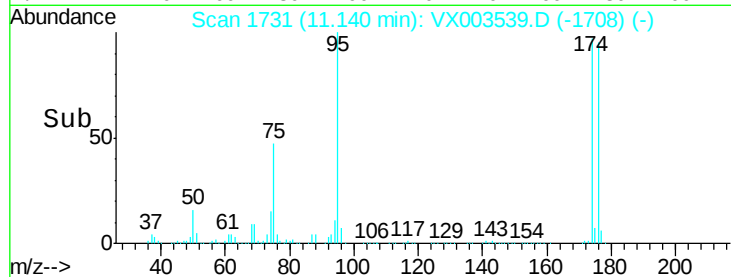
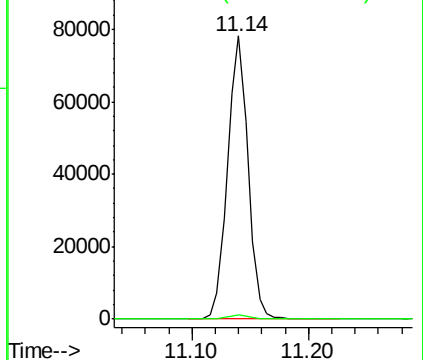
75 100

77 1.4 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 67.73 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003539.D

Acq: 21 Jul 2018 05:21

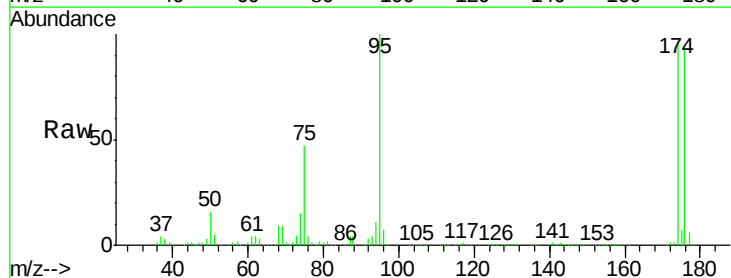
Tgt Ion: 75 Resp: 95681

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



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

