

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072018\
 Data File : VX003527.D
 Acq On : 21 Jul 2018 00:03
 Operator : JC/SP
 Sample : J3170-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D3-071018

Quant Time: Jul 21 03:44:20 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	279468	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	425179	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	409494	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	219171	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	182517	55.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.34%	
35) Dibromofluoromethane	5.51	113	164968	50.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.88%	
50) Toluene-d8	8.72	98	611045	50.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.40%	
62) 4-Bromofluorobenzene	11.14	95	210186	47.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.64%	

Target Compounds

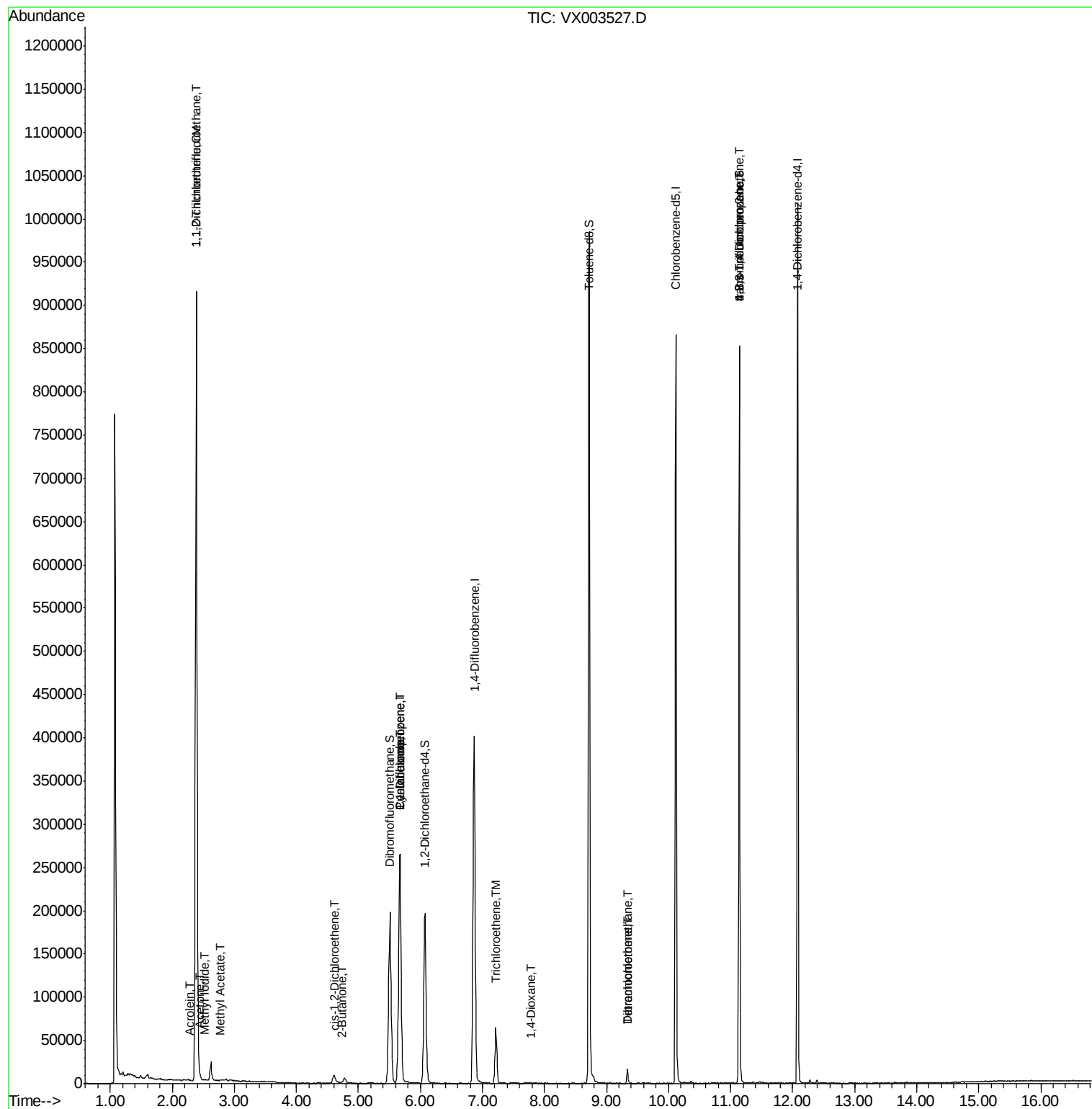
						Qvalue
2) Dichlorodifluoromethane	1.20	85	654	Below Cal		99
3) Chloromethane	1.32	50	736	Below Cal	#	80
5) Bromomethane	1.65	94	1474	Below Cal		82
9) 1,1,2-Trichlorotrifluoroet	2.39	101	370653	119.56	ug/l	97
10) Methyl Iodide	2.53	142	1285	0.35	ug/l #	91
12) 1,1-Dichloroethene	2.38	96	3316	1.16	ug/l #	78
13) Acrolein	2.29	56	103	0.35	ug/l	98
16) Acetone	2.45	43	2889	2.31	ug/l #	89
18) Methyl Acetate	2.78	43	985	0.25	ug/l	98
20) Methylene Chloride	2.86	84	589	Below Cal	#	70
25) 2-Butanone	4.72	43	917	0.44	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	2354	0.67	ug/l #	1
31) Cyclohexane	5.67	56	4939	0.99	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17971	3.91	ug/l #	50
44) Trichloroethene	7.21	130	26792	6.48	ug/l	99
49) 1,4-Dioxane	7.77	88	319	4.04	ug/l #	89
60) Dibromochloromethane	9.34	129	3105	0.90	ug/l #	11
64) Tetrachloroethene	9.34	164	3757	0.75	ug/l	86
76) 1,2,3-Trichloropropane	11.14	75	100480	25.52	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	100480	71.42	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: VX003527.D

Acq: 21 Jul 2018 00:03

Instrument :

MSVOA_X

ClientSampleId :

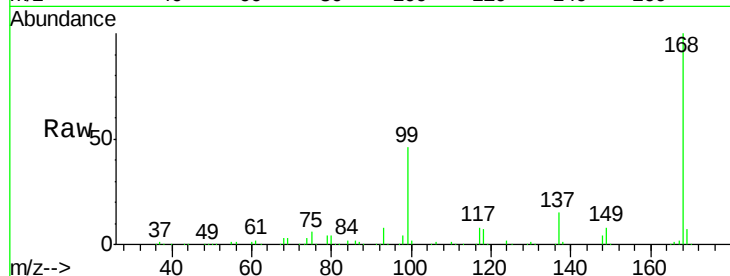
RE131D3-071018

Tot Ion:168 Resp: 279468

Ion Ratio Lower Upper

168 100

99 45.7 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

100000

80000

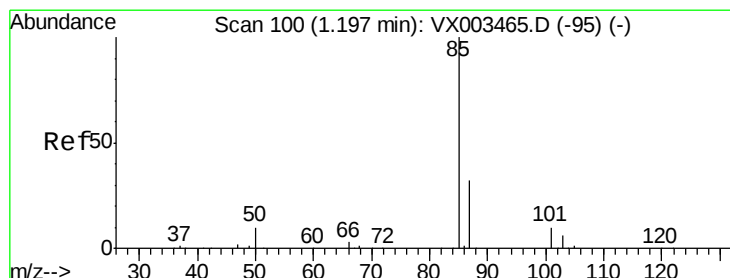
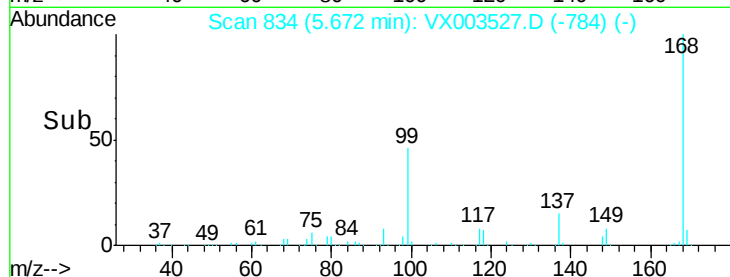
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003527.D

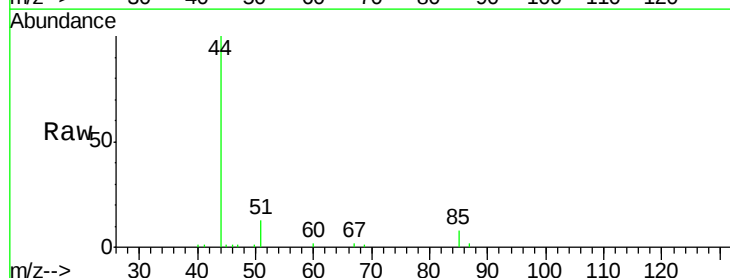
Acq: 21 Jul 2018 00:03

Tgt Ion: 85 Resp: 654

Ion Ratio Lower Upper

85 100

87 31.2 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

800

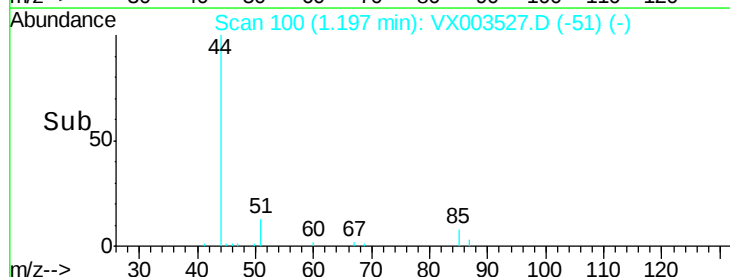
600

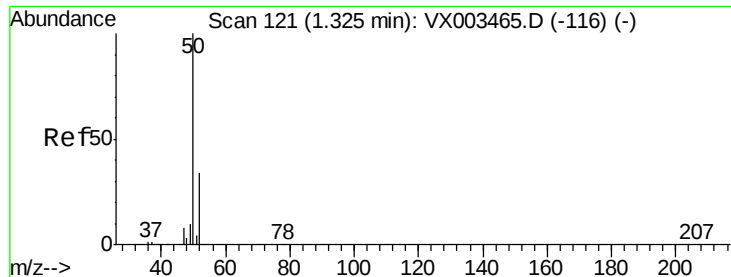
400

200

0

Time--> 1.20 1.25





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003527.D

Acq: 21 Jul 2018 00:03

Instrument :

MSVOA_X

ClientSampleId :

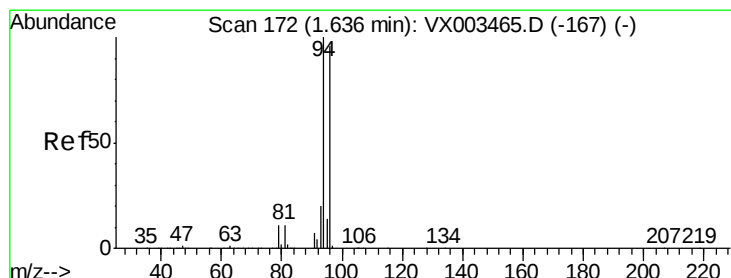
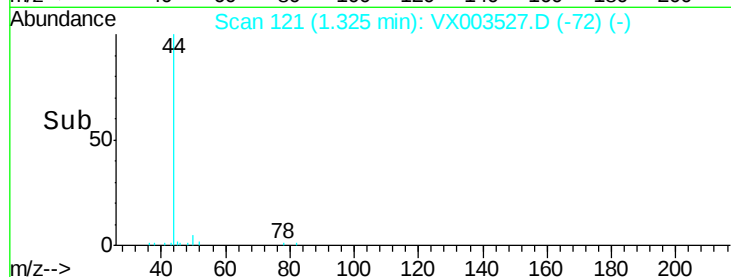
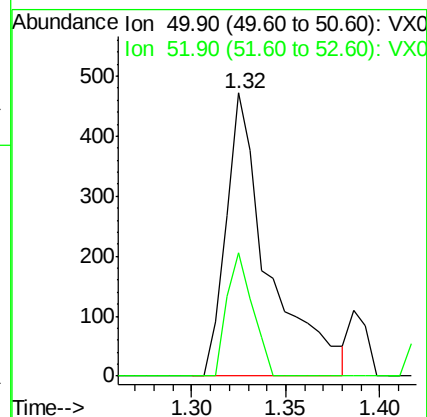
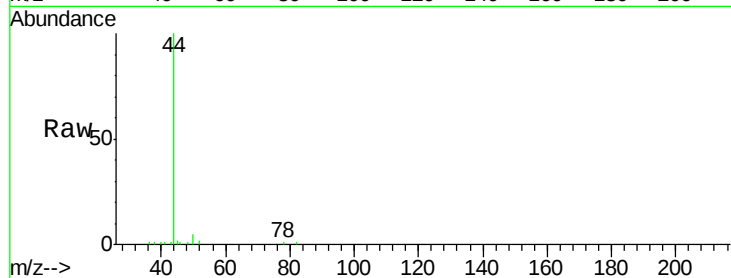
RE131D3-071018

Tot Ion: 50 Resp: 736

Ion Ratio Lower Upper

50 100

52 43.4 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003527.D

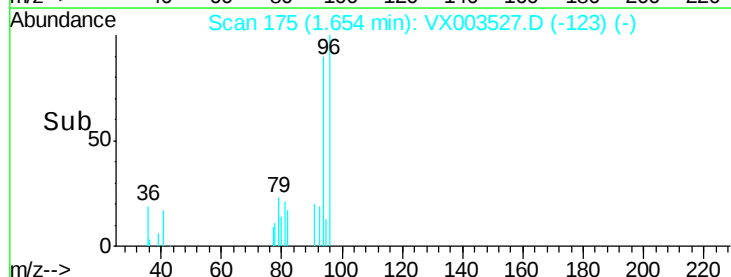
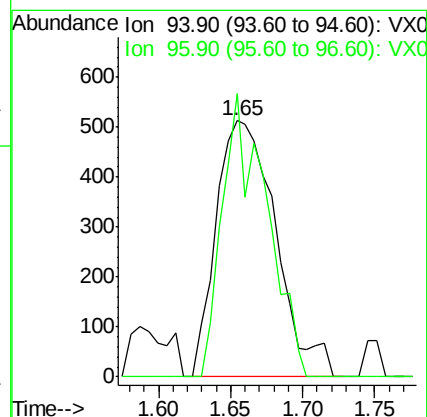
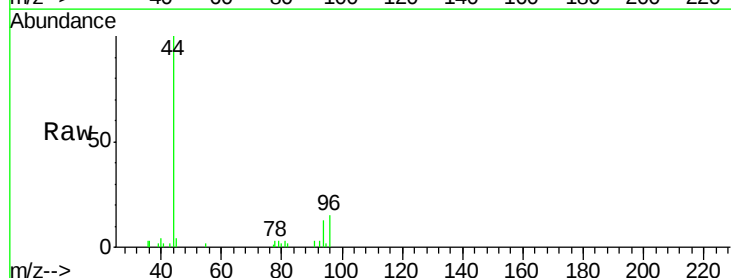
Acq: 21 Jul 2018 00:03

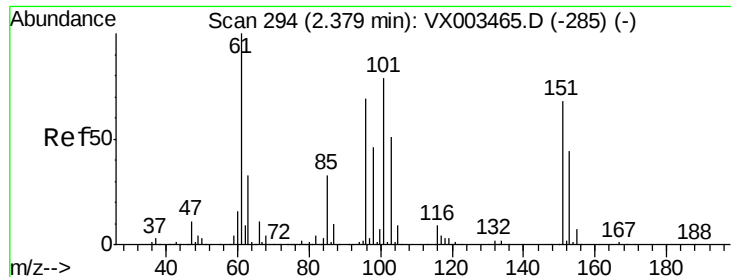
Tgt Ion: 94 Resp: 1474

Ion Ratio Lower Upper

94 100

96 110.5 74.9 112.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 119.56 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003527.D

Acq: 21 Jul 2018 00:03

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-071018

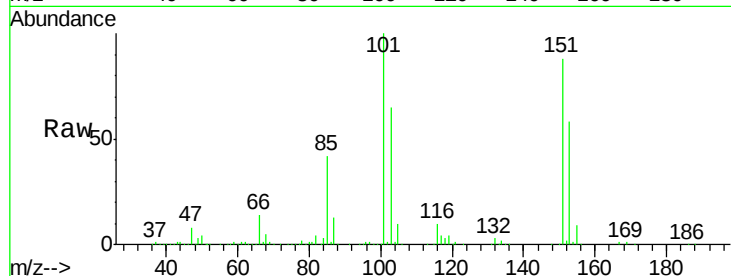
Tot Ion:101 Resp: 370653

Ion Ratio Lower Upper

101 100

85 41.2 36.0 54.0

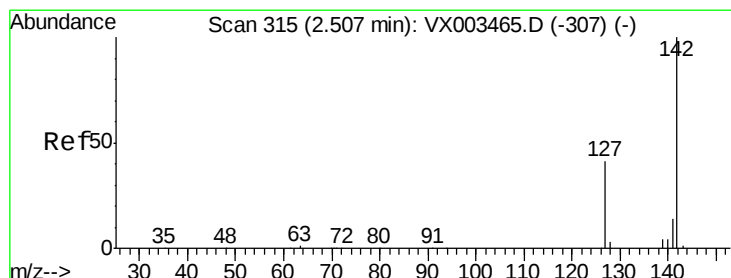
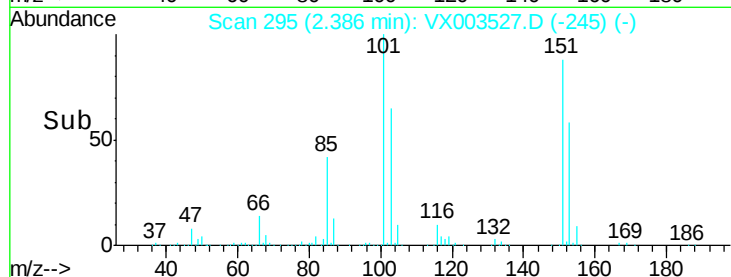
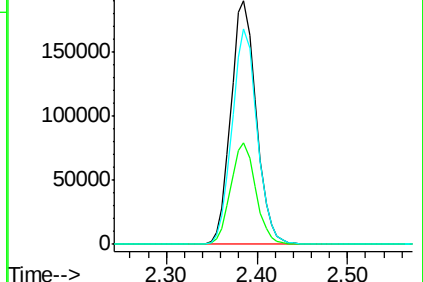
151 87.5 70.9 106.3



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



#10

Methyl Iodide

Concen: 0.35 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.02 min

Lab File: VX003527.D

Acq: 21 Jul 2018 00:03

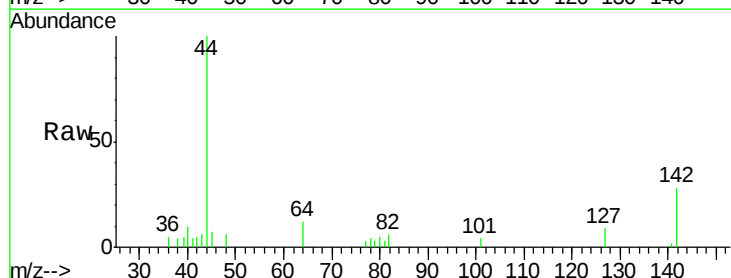
Tgt Ion:142 Resp: 1285

Ion Ratio Lower Upper

142 100

127 40.1 36.6 55.0

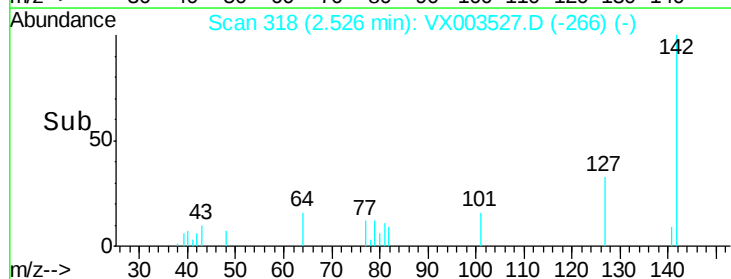
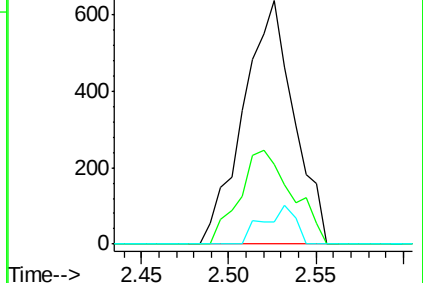
141 9.9 11.3 16.9#

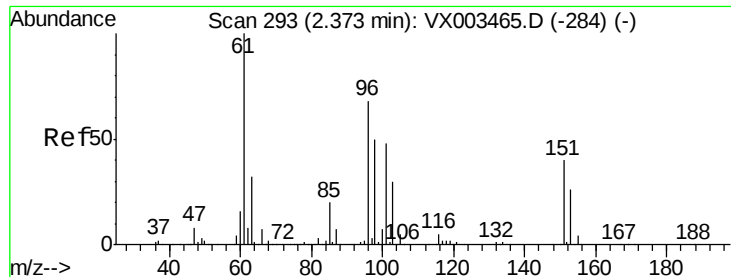


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#12

1,1-Dichloroethene

Concen: 1.16 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.01 min

Lab File: VX003527.D

Acq: 21 Jul 2018 00:03

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-071018

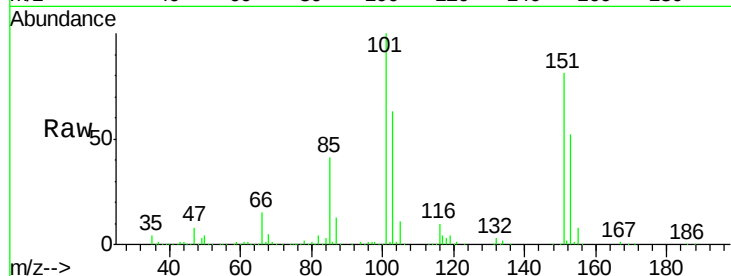
Tot Ion: 96 Resp: 3316

Ion Ratio Lower Upper

96 100

61 135.1 137.9 206.9#

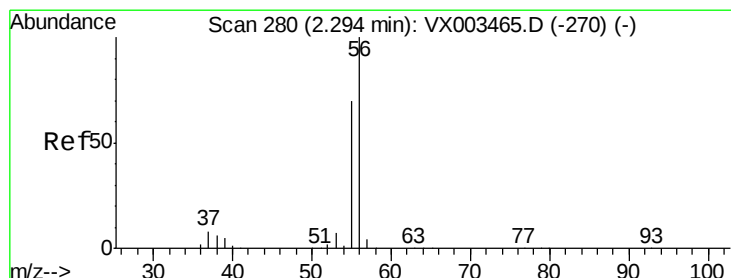
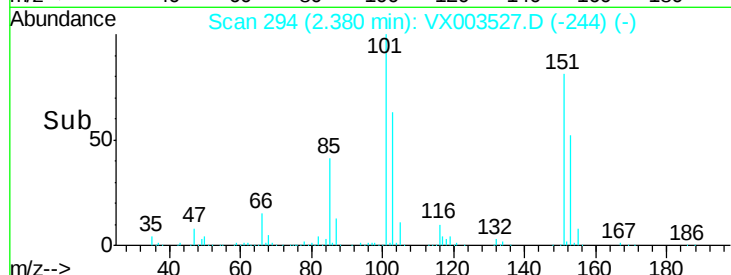
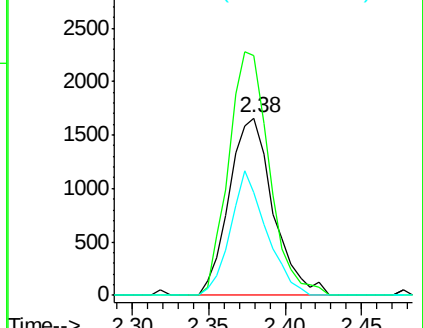
98 58.0 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.35 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX003527.D

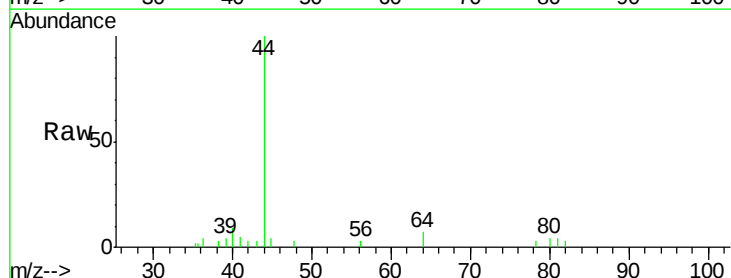
Acq: 21 Jul 2018 00:03

Tgt Ion: 56 Resp: 103

Ion Ratio Lower Upper

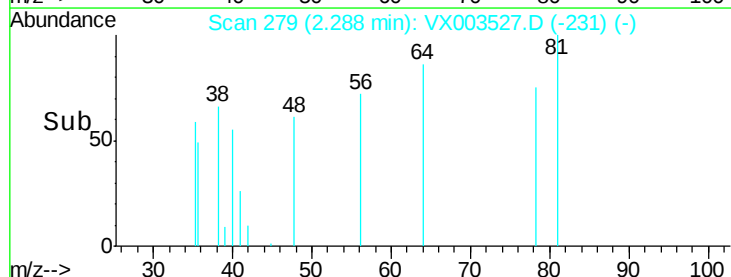
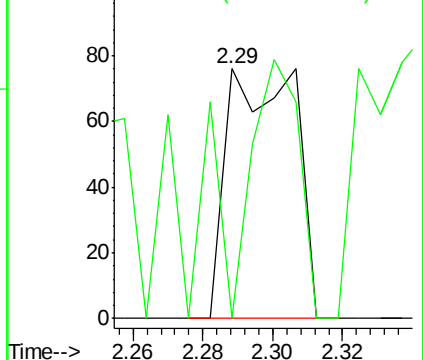
56 100

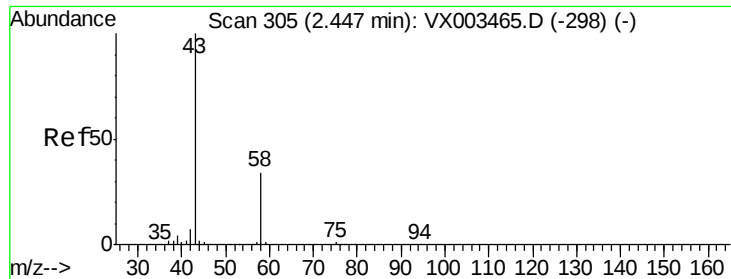
55 69.9 57.0 85.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.31 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003527.D

Acq: 21 Jul 2018 00:03

Instrument :

MSVOA_X

ClientSampleId :

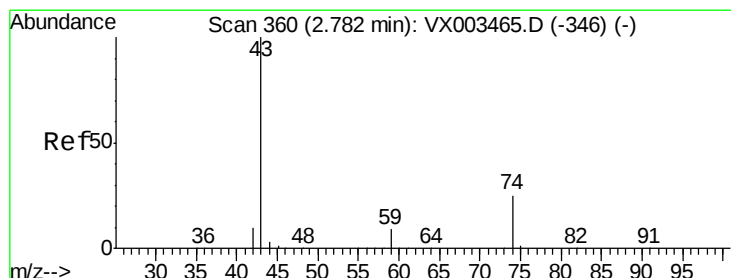
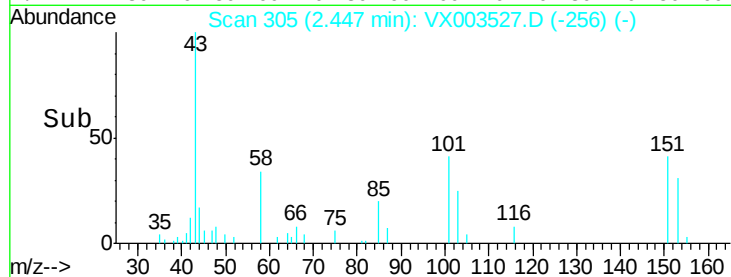
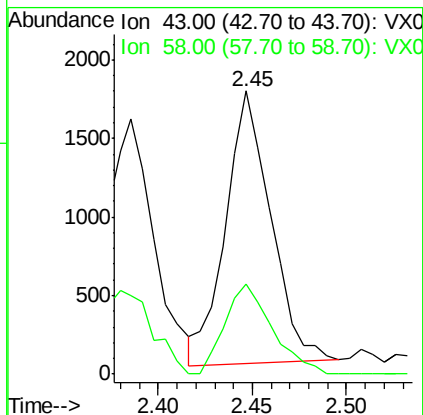
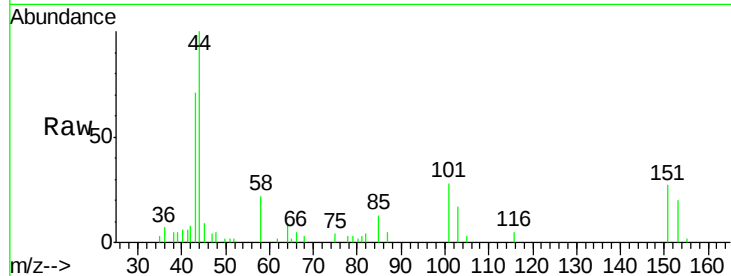
RE131D3-071018

Tot Ion: 43 Resp: 2889

Ion Ratio Lower Upper

43 100

58 33.5 22.1 33.1#



#18

Methyl Acetate

Concen: 0.25 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003527.D

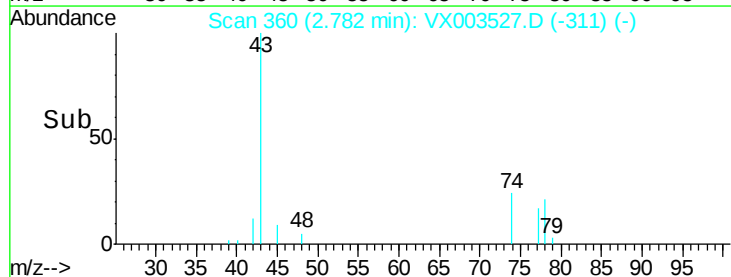
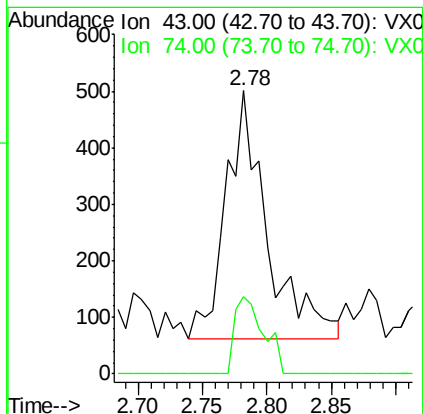
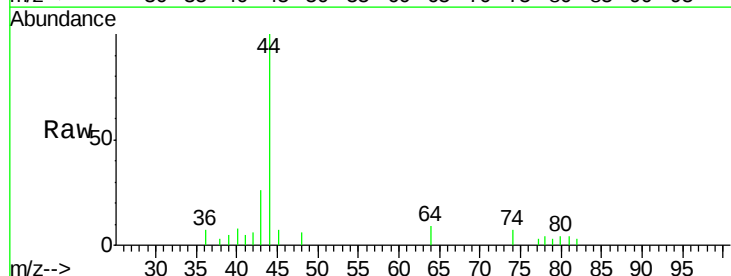
Acq: 21 Jul 2018 00:03

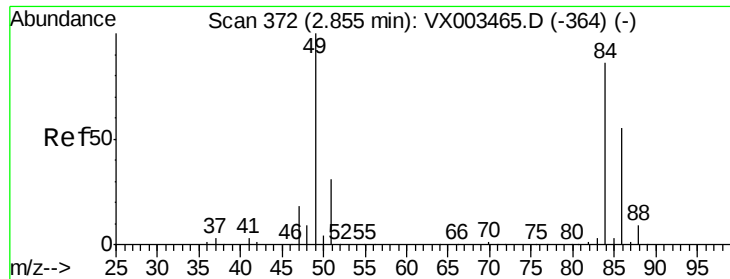
Tgt Ion: 43 Resp: 985

Ion Ratio Lower Upper

43 100

74 21.7 16.7 25.1

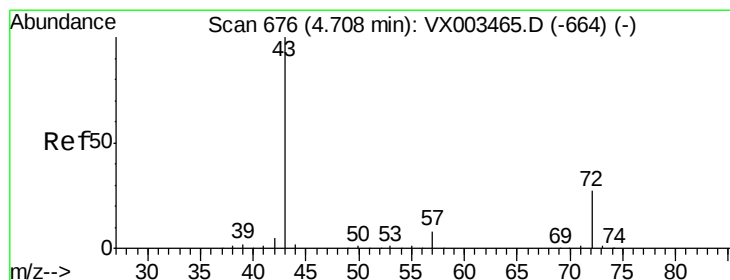
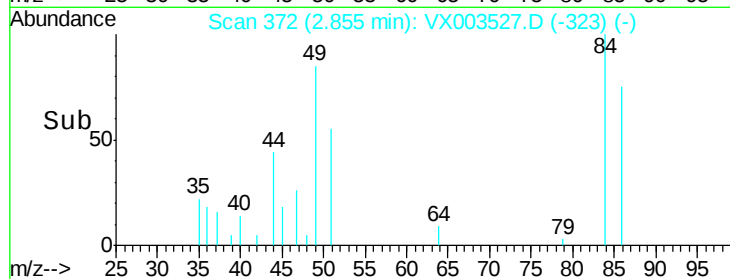
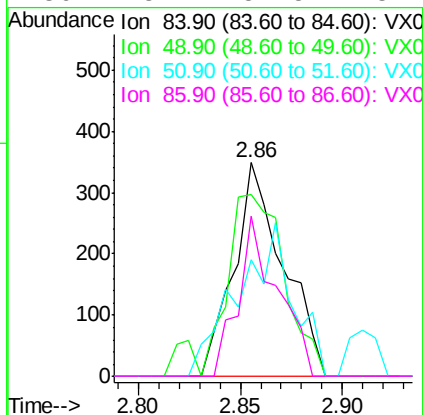
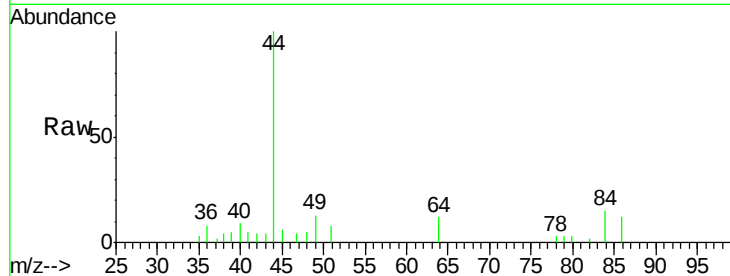




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003527.D
Acq: 21 Jul 2018 00:03

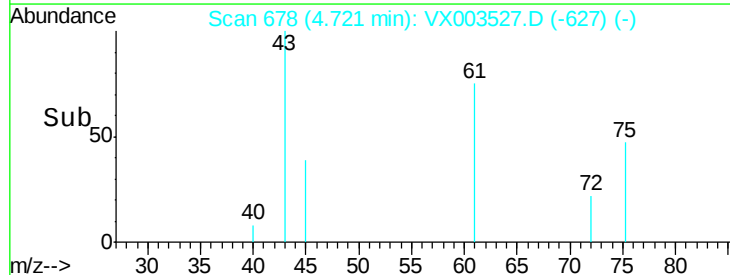
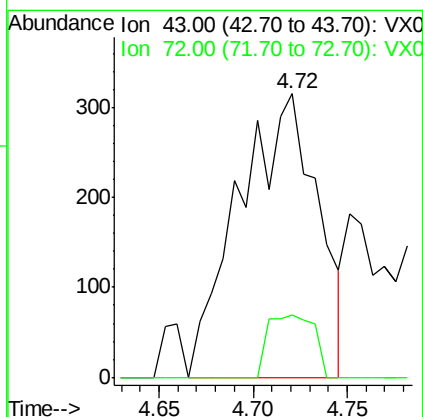
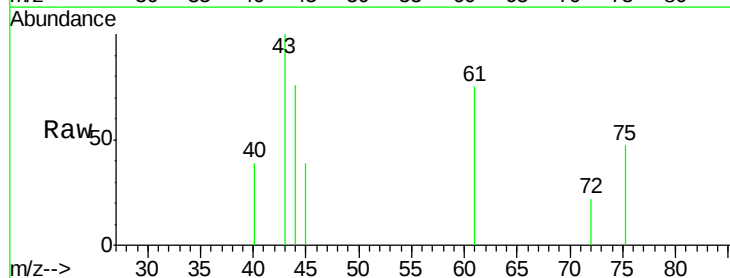
Instrument :
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RE131D3-071018

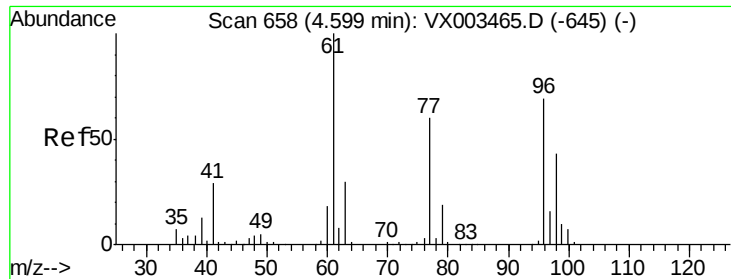
Tot Ion: 84 Resp: 589
Ion Ratio Lower Upper
84 100
49 85.1 107.8 161.6#
51 54.7 32.8 49.2#
86 75.1 52.5 78.7



#25
2-Butanone
Concen: 0.44 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX003527.D
Acq: 21 Jul 2018 00:03

Tgt Ion: 43 Resp: 917
Ion Ratio Lower Upper
43 100
72 21.9 18.5 27.7





#27

cis-1,2-Dichloroethene

Concen: 0.67 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003527.D

Acq: 21 Jul 2018 00:03

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-071018

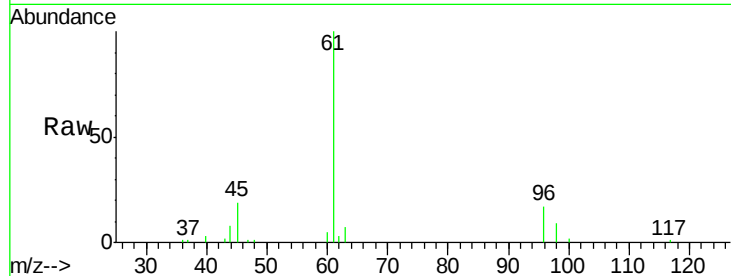
Tot Ion: 96 Resp: 2354

Ion Ratio Lower Upper

96 100

61 906.7 0.0 330.2#

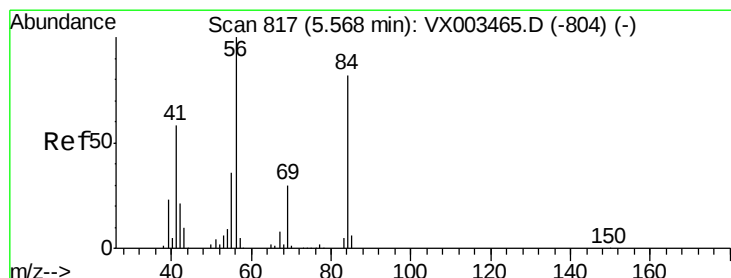
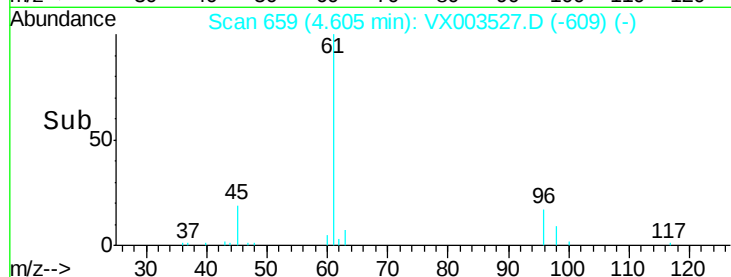
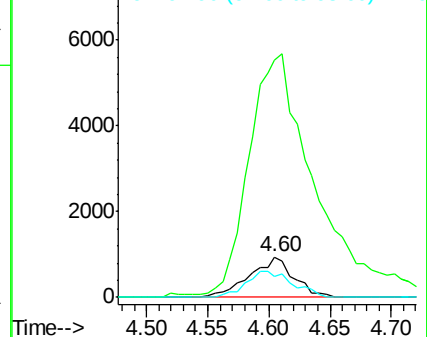
98 67.8 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#31

Cyclohexane

Concen: 0.99 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.10 min

Lab File: VX003527.D

Acq: 21 Jul 2018 00:03

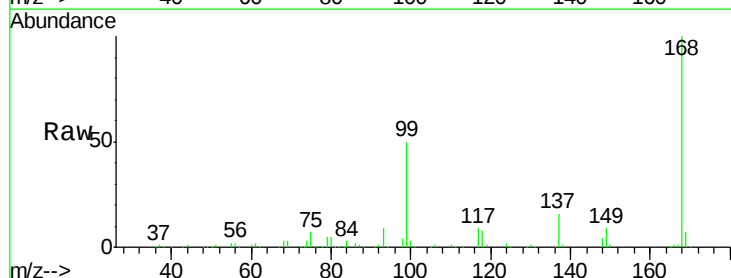
Tgt Ion: 56 Resp: 4939

Ion Ratio Lower Upper

56 100

69 170.7 23.7 35.5#

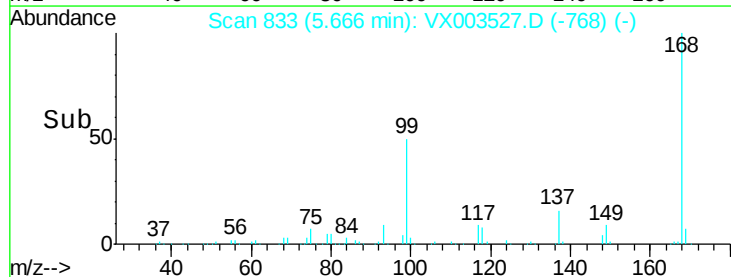
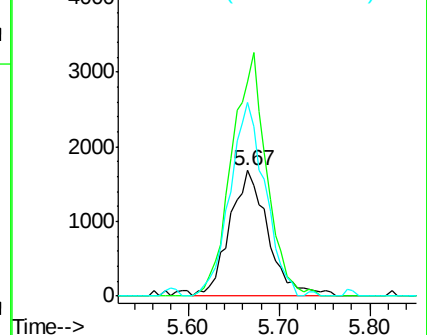
84 154.6 64.1 96.1#

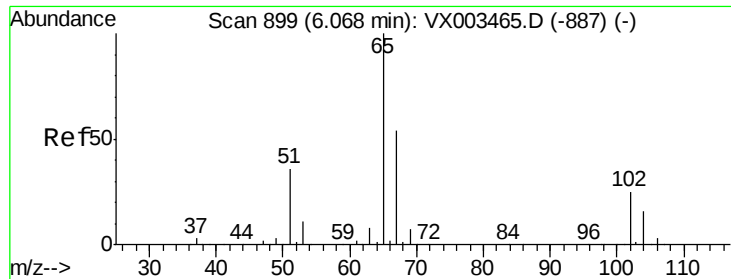


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

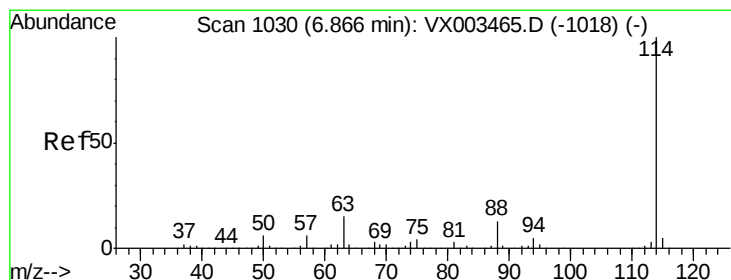
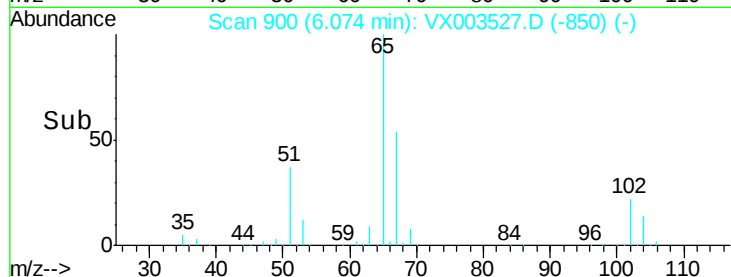
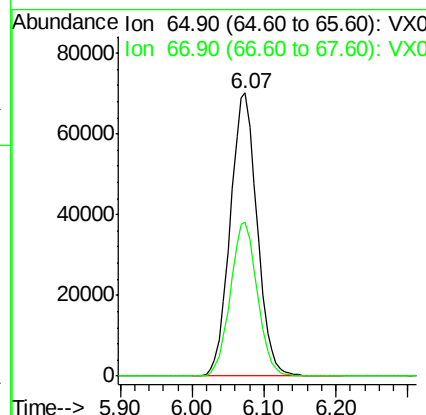
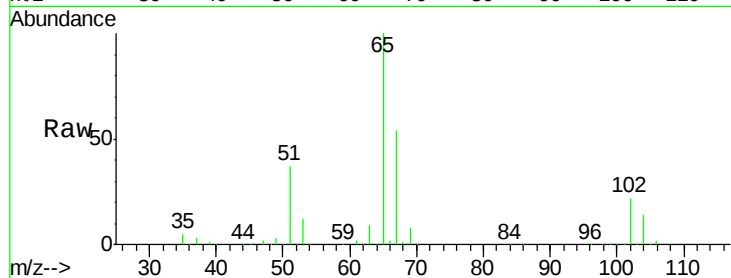




#33
 1,2-Dichloroethane-d4
 Concen: 55.17 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003527.D
 Acq: 21 Jul 2018 00:03

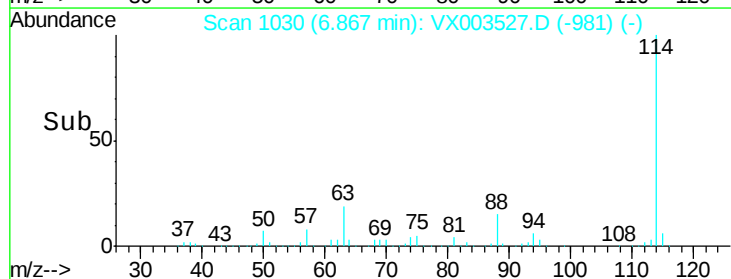
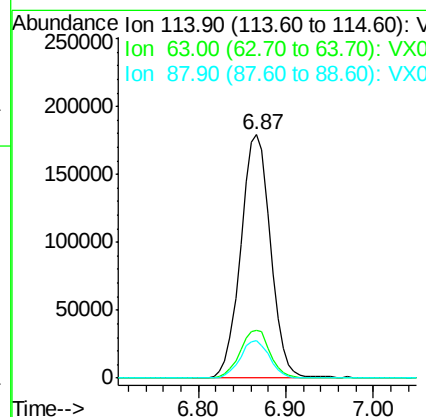
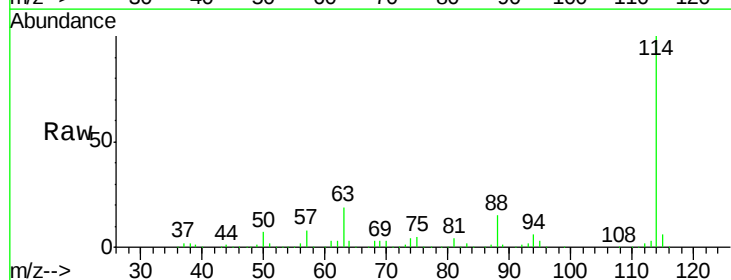
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D3-071018

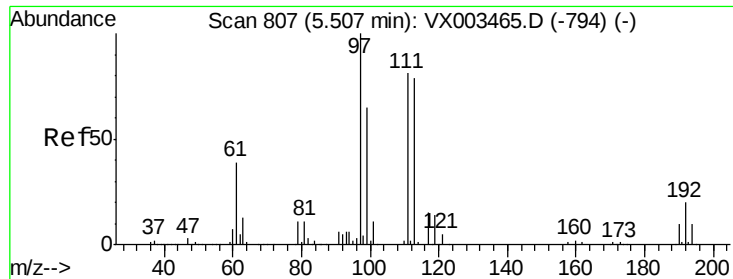
Tot Ion: 65 Resp: 182517
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003527.D
 Acq: 21 Jul 2018 00:03

Tgt Ion: 114 Resp: 425179
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 41.4
 88 15.2 0.0 30.0

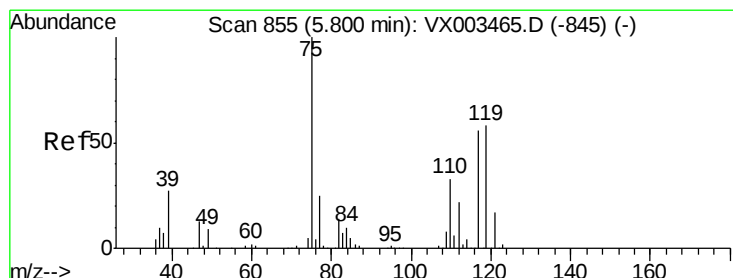
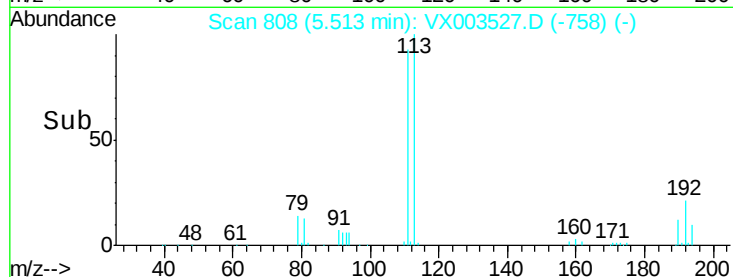
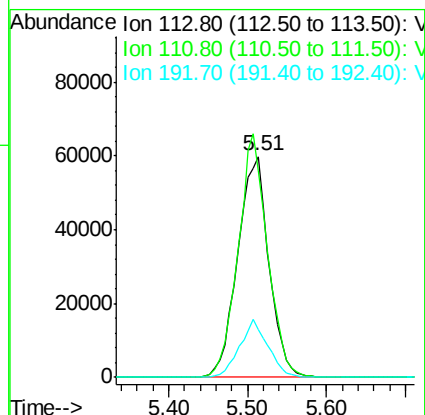
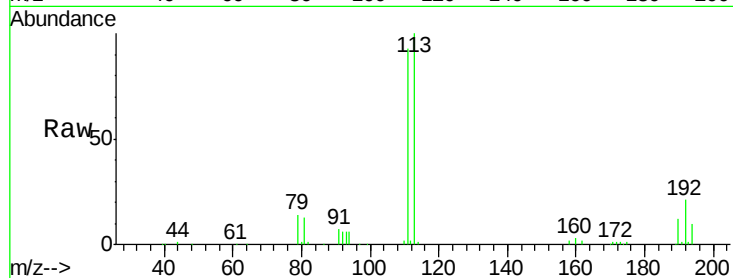




#35
 Dibromofluoromethane
 Concen: 50.94 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX003527.D
 Acq: 21 Jul 2018 00:03

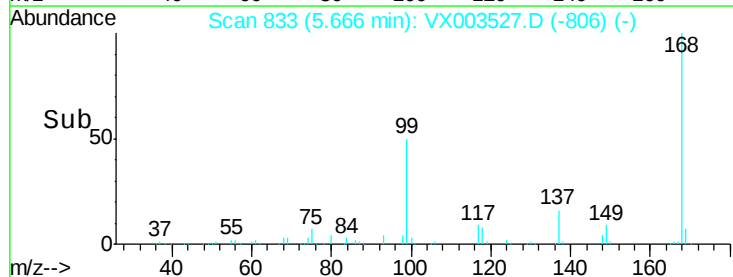
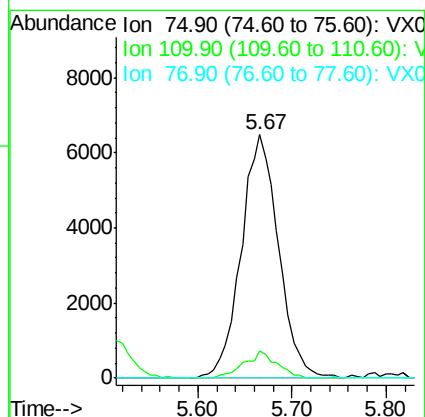
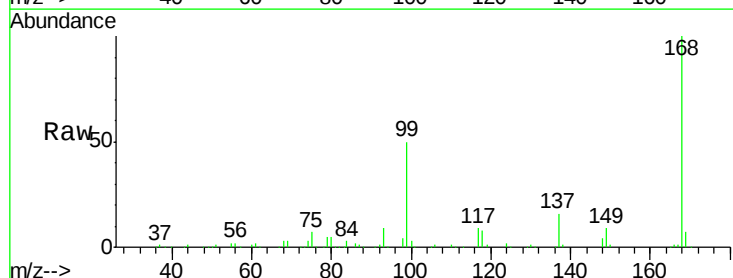
Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D3-071018

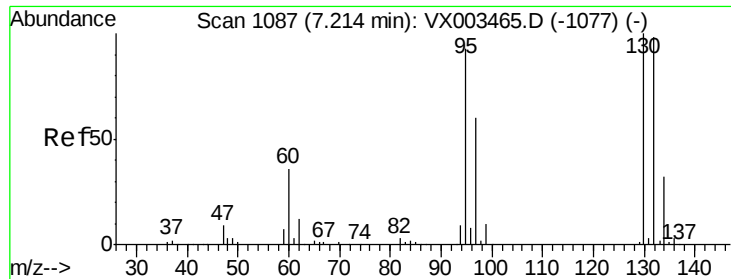
Tot Ion:113 Resp: 164968
 Ion Ratio Lower Upper
 113 100
 111 103.3 81.4 122.0
 192 23.8 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 3.91 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003527.D
 Acq: 21 Jul 2018 00:03

Tgt Ion: 75 Resp: 17971
 Ion Ratio Lower Upper
 75 100
 110 9.5 18.1 54.4#
 77 0.0 24.3 36.5#





#44

Trichloroethene

Concen: 6.48 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003527.D

Acq: 21 Jul 2018 00:03

Instrument :

MSVOA_X

ClientSampleId :

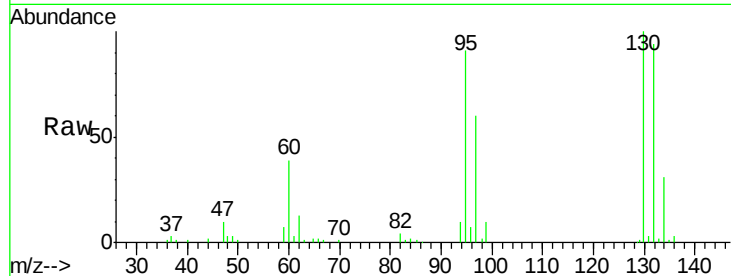
RE131D3-071018

Tot Ion:130 Resp: 26792

Ion Ratio Lower Upper

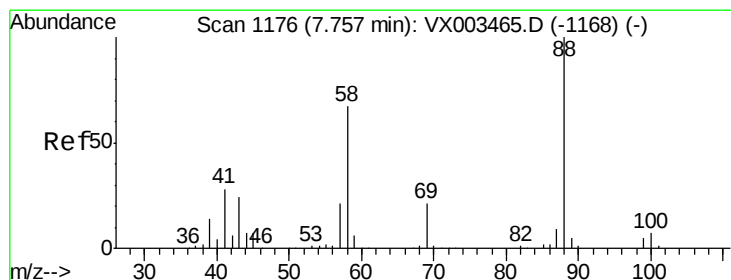
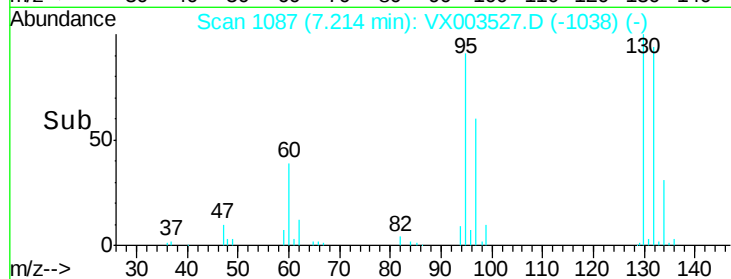
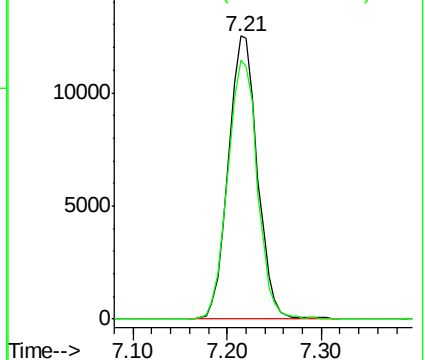
130 100

95 91.3 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 4.04 ug/l

RT: 7.77 min Scan# 1178

Delta R.T. 0.01 min

Lab File: VX003527.D

Acq: 21 Jul 2018 00:03

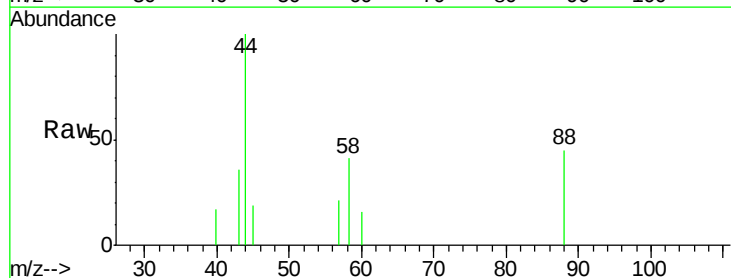
Tgt Ion: 88 Resp: 319

Ion Ratio Lower Upper

88 100

43 21.3 29.8 44.6#

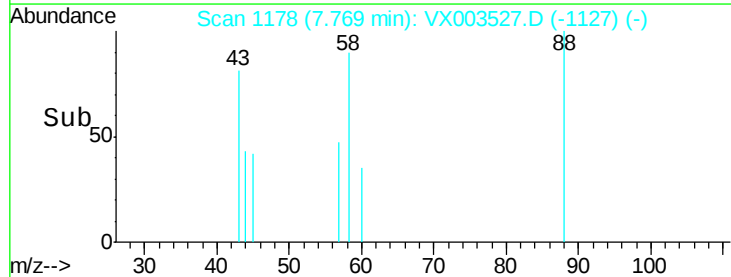
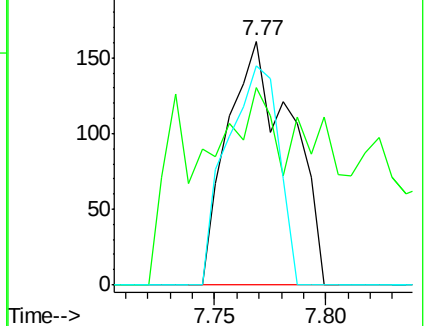
58 73.7 57.1 85.7

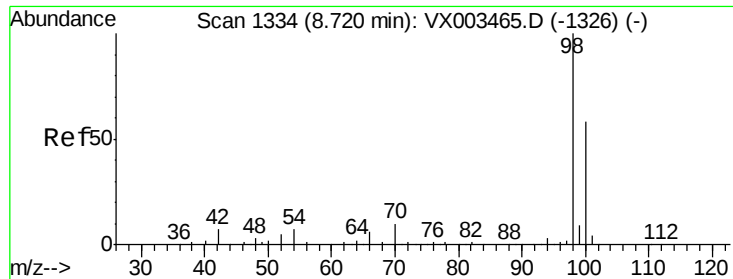


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.20 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003527.D

Acq: 21 Jul 2018 00:03

Instrument :

MSVOA_X

ClientSampleId :

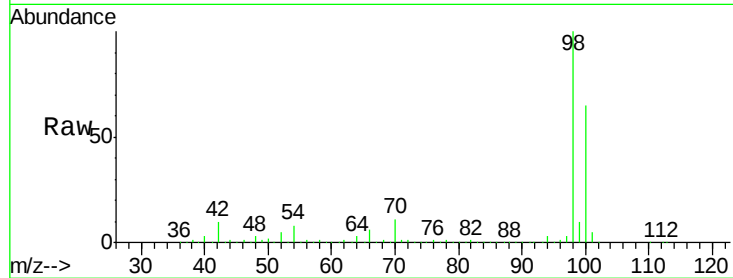
RE131D3-071018

Tot Ion: 98 Resp: 611045

Ion Ratio Lower Upper

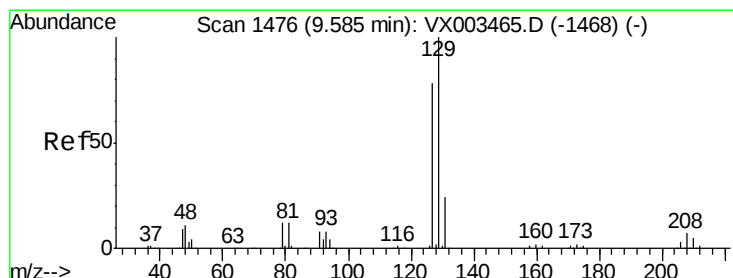
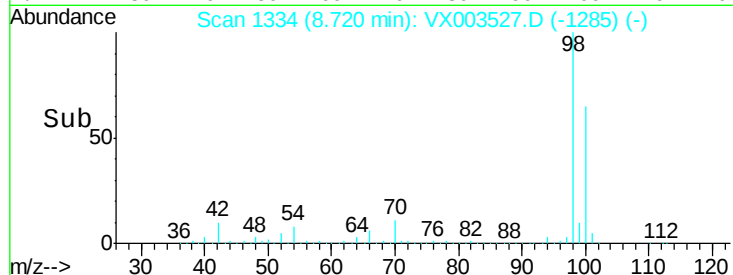
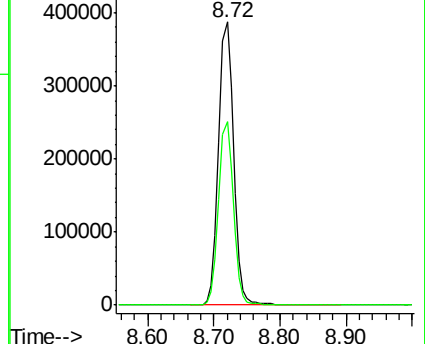
98 100

100 64.0 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 0.90 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX003527.D

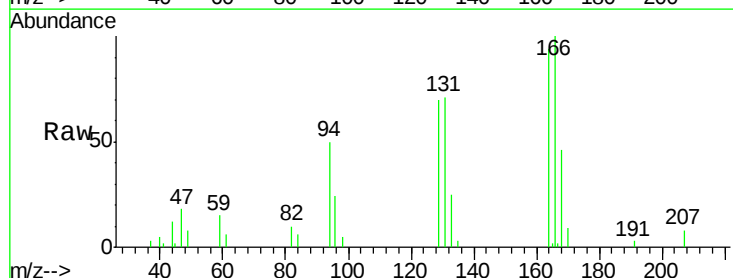
Acq: 21 Jul 2018 00:03

Tgt Ion:129 Resp: 3105

Ion Ratio Lower Upper

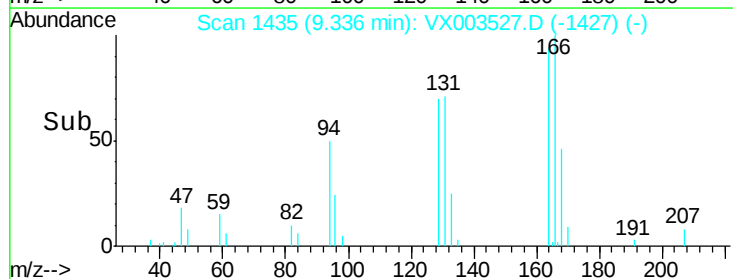
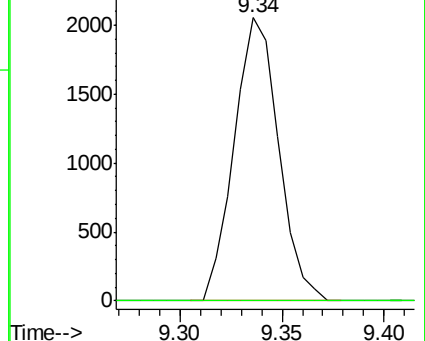
129 100

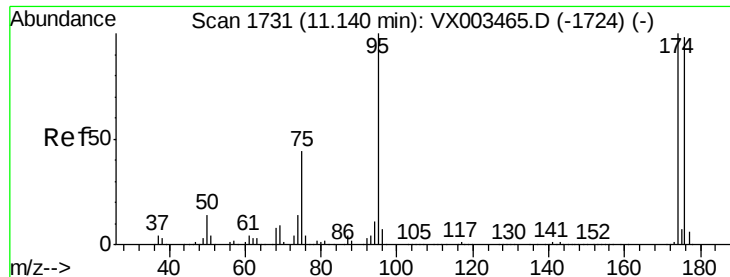
127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 47.32 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003527.D

Acq: 21 Jul 2018 00:03

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-071018

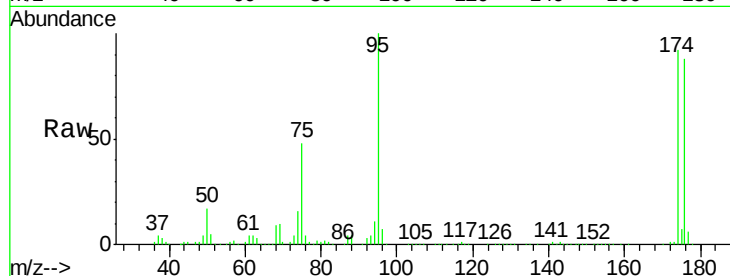
Tot Ion: 95 Resp: 210186

Ion Ratio Lower Upper

95 100

174 93.7 0.0 187.4

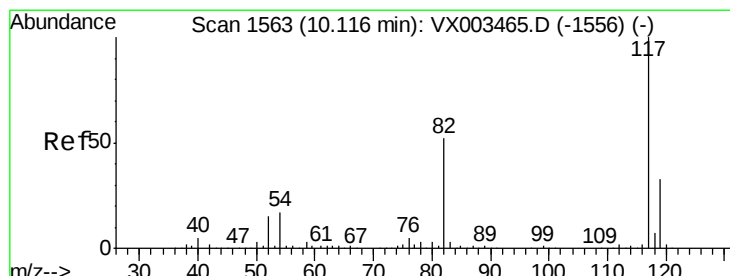
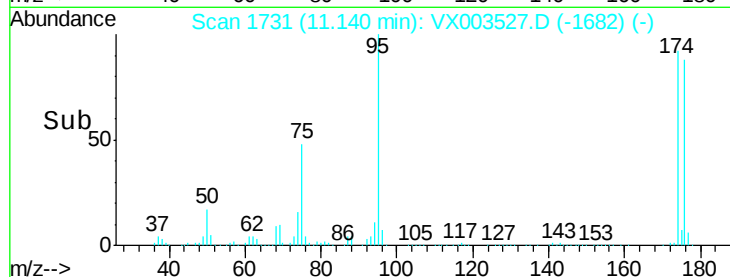
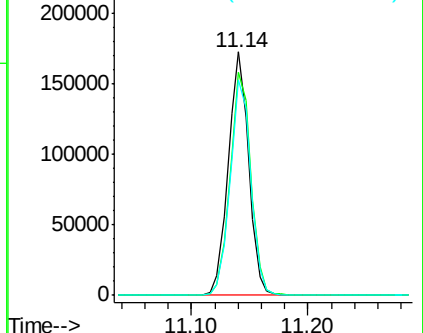
176 90.3 0.0 181.0



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: VX003527.D

Acq: 21 Jul 2018 00:03

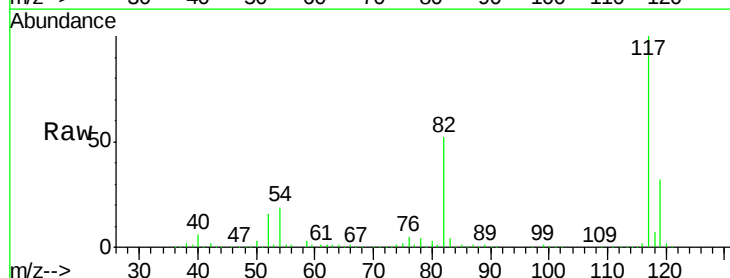
Tgt Ion: 117 Resp: 409494

Ion Ratio Lower Upper

117 100

82 52.2 45.0 67.4

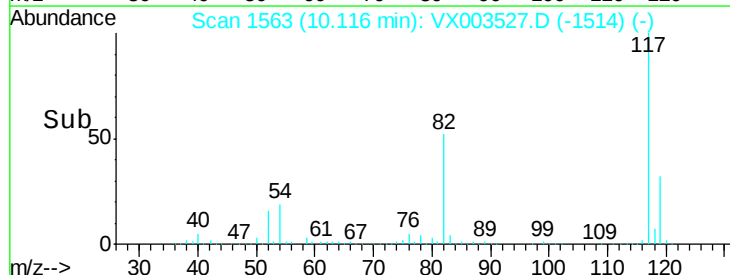
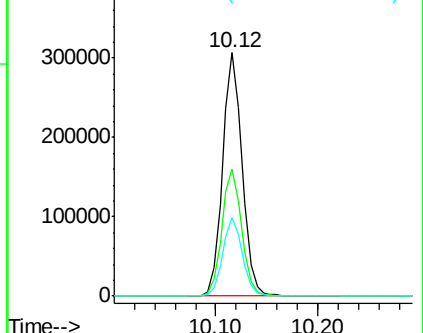
119 32.2 25.8 38.6

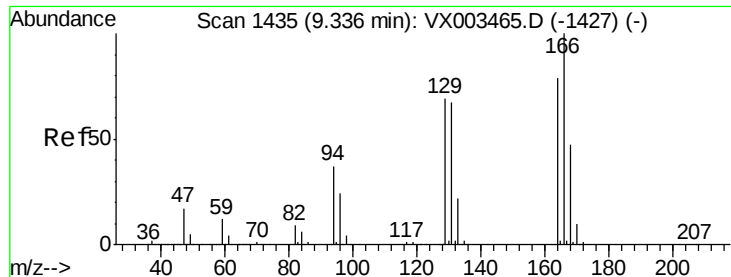


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

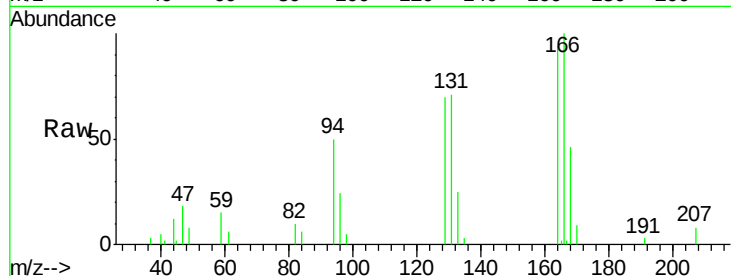




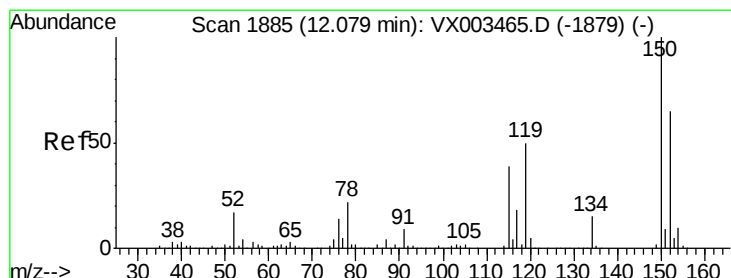
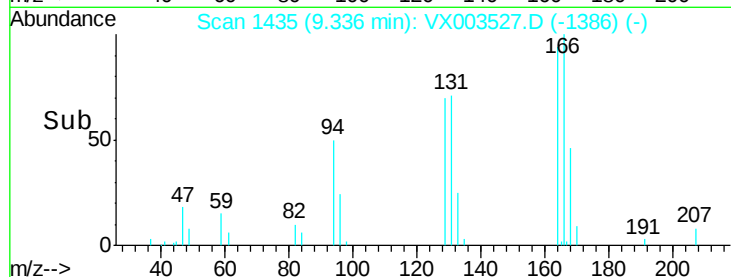
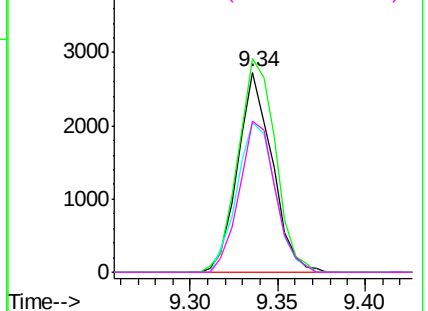
#64
Tetrachloroethene
Concen: 0.75 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. 0.00 min
Lab File: VX003527.D
Acq: 21 Jul 2018 00:03

Instrument :
MSVOA_X
ClientSampleId :
RE131D3-071018

Tot Ion:164 Resp: 3757
Ion Ratio Lower Upper
164 100
166 106.9 102.9 154.3
129 75.2 68.6 102.8
131 75.9 66.8 100.2

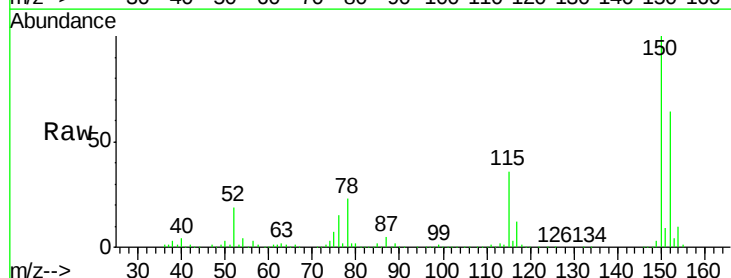


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

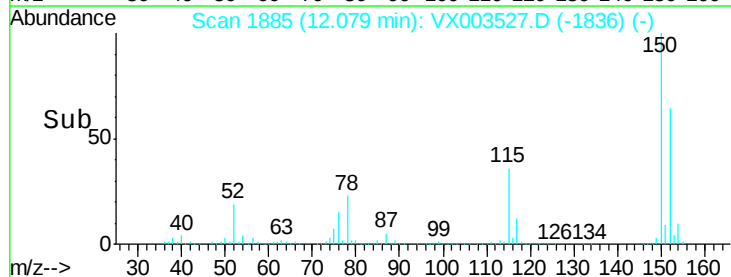
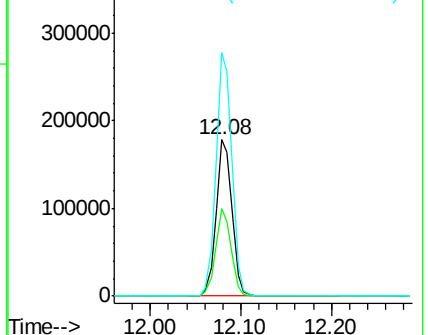


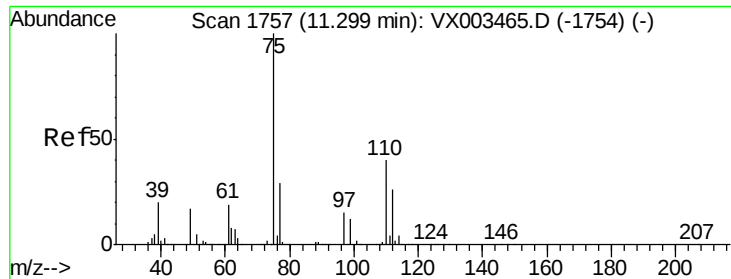
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003527.D
Acq: 21 Jul 2018 00:03

Tgt Ion:152 Resp: 219171
Ion Ratio Lower Upper
152 100
115 54.6 40.1 120.2
150 156.3 0.0 347.2



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





#76

1,2,3-Trichloropropane

Concen: 25.52 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003527.D

Acq: 21 Jul 2018 00:03

Instrument :

MSVOA_X

ClientSampleId :

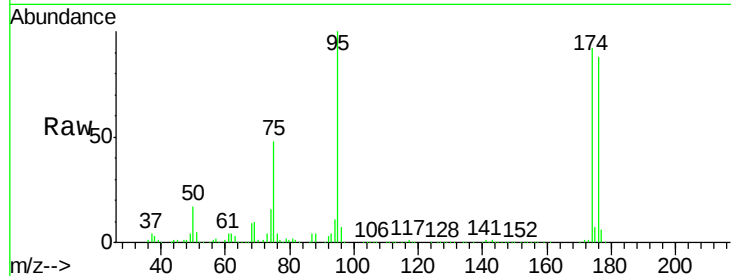
RE131D3-071018

Tot Ion: 75 Resp: 100480

Ion Ratio Lower Upper

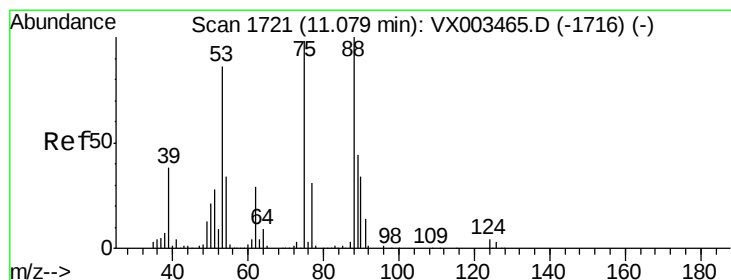
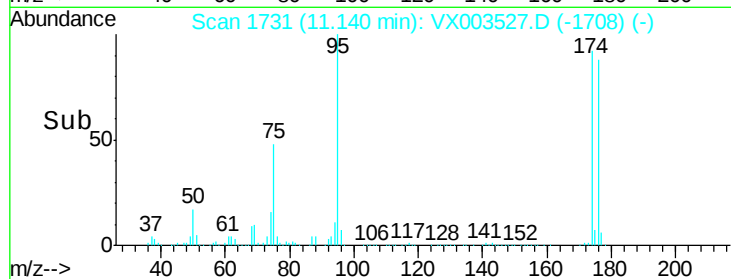
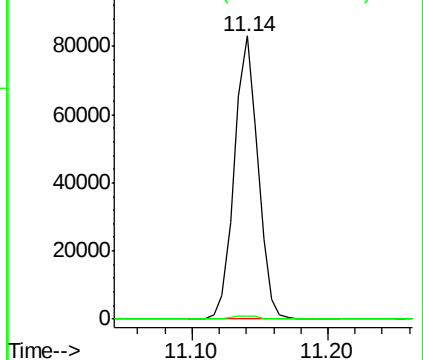
75 100

77 1.3 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: 71.42 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003527.D

Acq: 21 Jul 2018 00:03

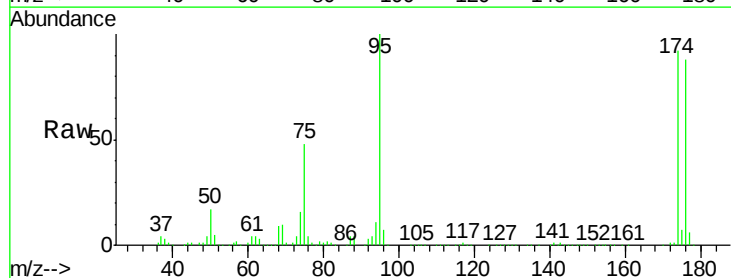
Tgt Ion: 75 Resp: 100480

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

