

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071918\
 Data File : VX003483.D
 Acq On : 20 Jul 2018 00:33
 Operator : JC/SP
 Sample : J3170-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D3-071018

Quant Time: Jul 20 04:03:53 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	312651	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	452427	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	415572	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	228347	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	183885	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
35) Dibromofluoromethane	5.51	113	180278	52.32	ug/l	0.00
Spiked Amount			Recovery	=	104.64%	
50) Toluene-d8	8.72	98	632851	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	11.14	95	218192	46.16	ug/l	0.00
Spiked Amount			Recovery	=	92.32%	

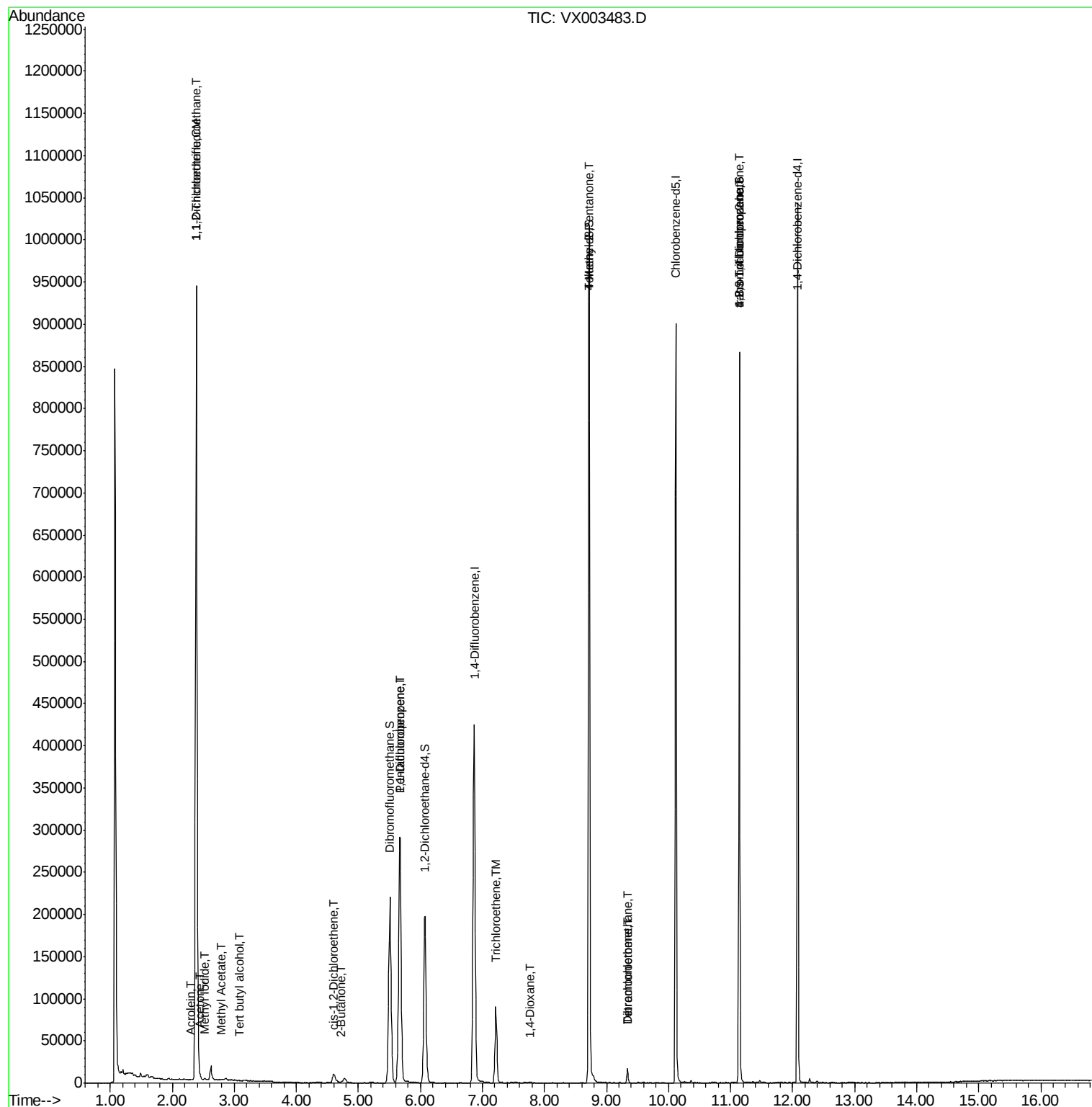
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	677	Below Cal		99
3) Chloromethane	1.33	50	878	Below Cal		100
5) Bromomethane	1.65	94	2012	Below Cal		90
9) 1,1,2-Trichlorotrifluoroet	2.39	101	376686	108.61	ug/l	98
10) Methyl Iodide	2.52	142	1326	0.32	ug/l #	96
11) Tert butyl alcohol	3.08	59	245	0.33	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	3569	1.12	ug/l #	77
13) Acrolein	2.29	56	84	0.25	ug/l #	52
16) Acetone	2.45	43	3448	2.47	ug/l #	82
18) Methyl Acetate	2.79	43	1227	0.28	ug/l #	74
20) Methylene Chloride	2.86	84	734	Below Cal	#	81
25) 2-Butanone	4.71	43	927	0.40	ug/l	91
27) cis-1,2-Dichloroethene	4.60	96	2431	0.61	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	19059	3.90	ug/l #	50
44) Trichloroethene	7.22	130	38202	8.69	ug/l	100
49) 1,4-Dioxane	7.76	88	374	4.45	ug/l #	55
51) 4-Methyl-2-Pentanone	8.72	43	2605	0.56	ug/l #	1
60) Dibromochloromethane	9.34	129	3269	0.89	ug/l #	11
64) Tetrachloroethene	9.34	164	3630	0.72	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	103534	25.24	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	103534	70.65	ug/l #	7

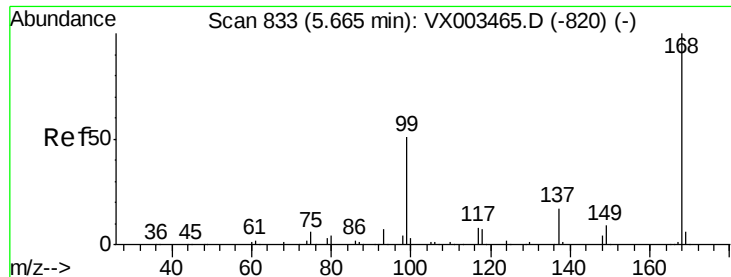
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071918\
Data File : VX003483.D
Acq On : 20 Jul 2018 00:33
Operator : JC/SP
Sample : J3170-04
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE131D3-071018

Quant Time: Jul 20 04:03:53 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 19 17:09:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

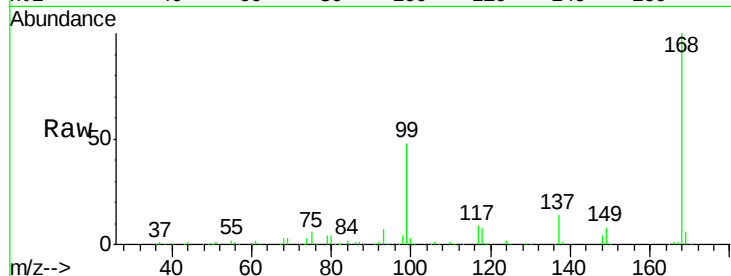
RE131D3-071018

Tot Ion:168 Resp: 312651

Ion Ratio Lower Upper

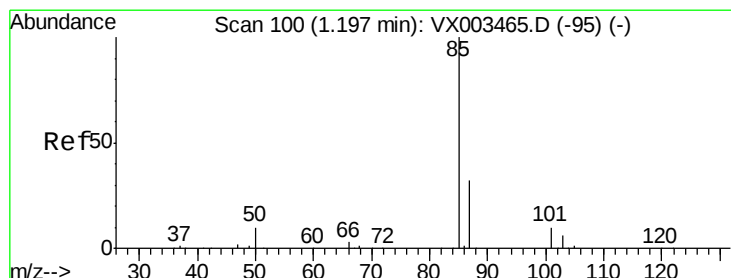
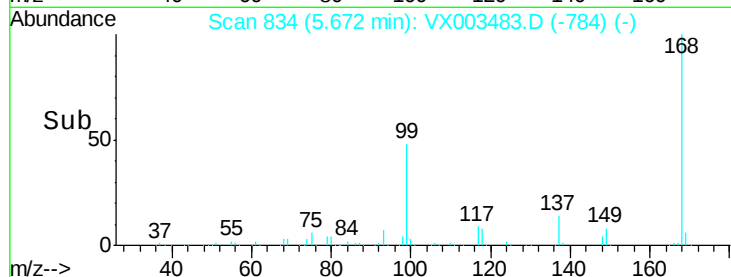
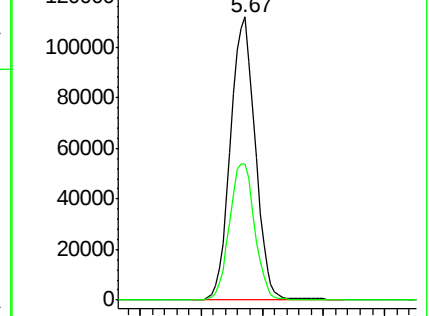
168 100

99 48.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003483.D

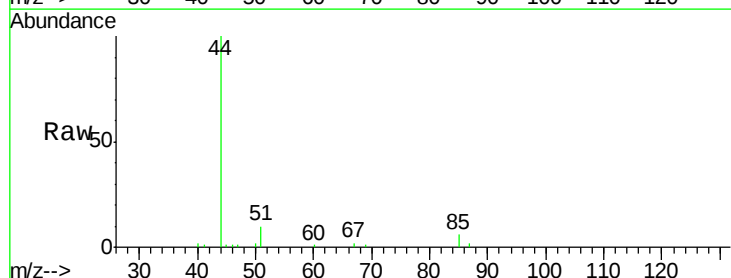
Acq: 20 Jul 2018 00:33

Tgt Ion: 85 Resp: 677

Ion Ratio Lower Upper

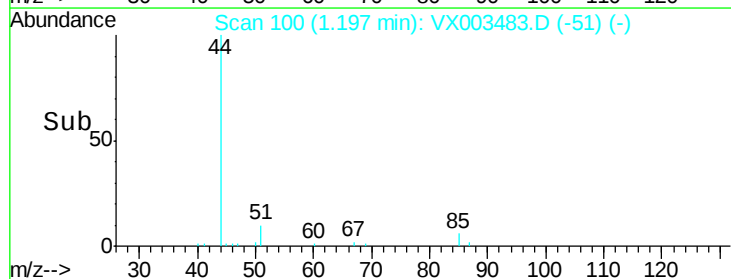
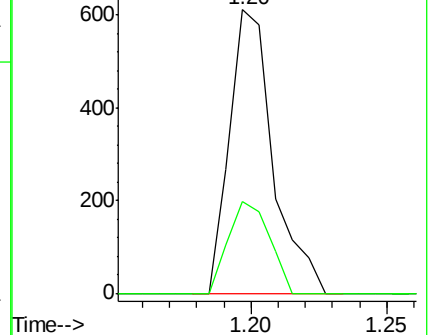
85 100

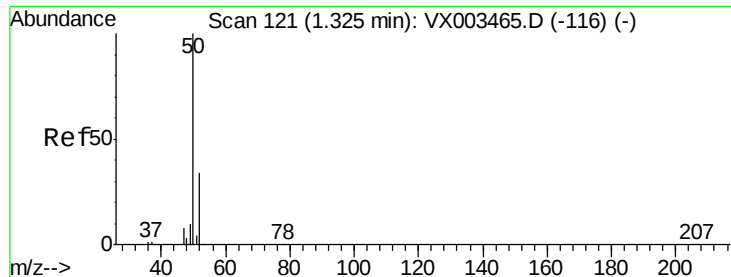
87 32.4 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

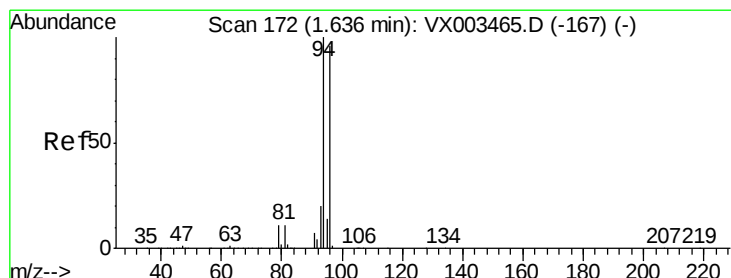
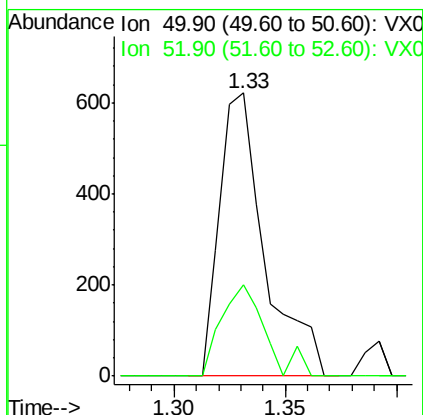
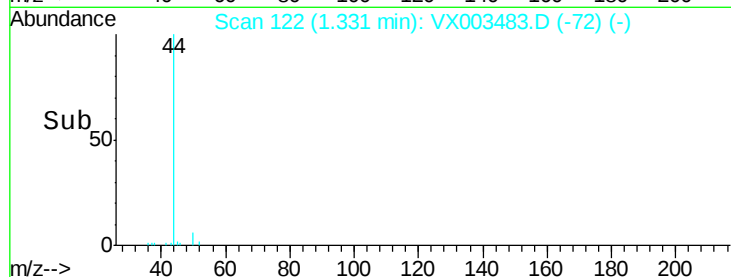
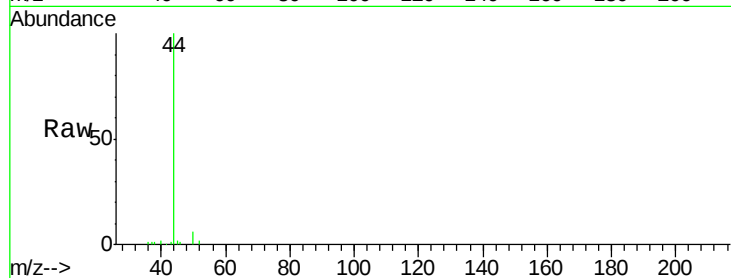
RE131D3-071018

Tot Ion: 50 Resp: 878

Ion Ratio Lower Upper

50 100

52 32.3 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003483.D

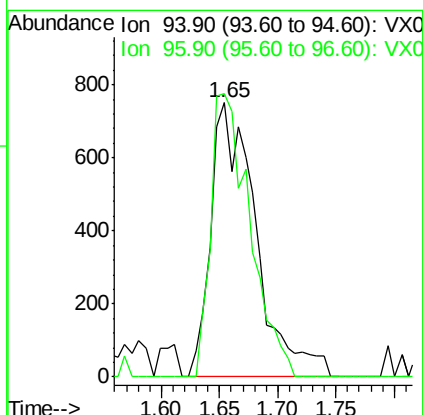
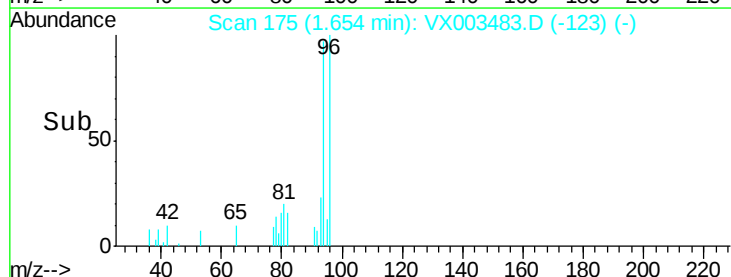
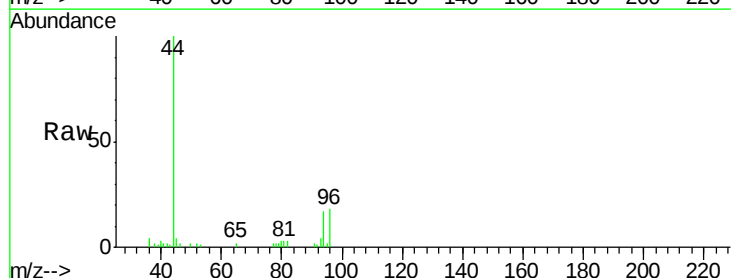
Acq: 20 Jul 2018 00:33

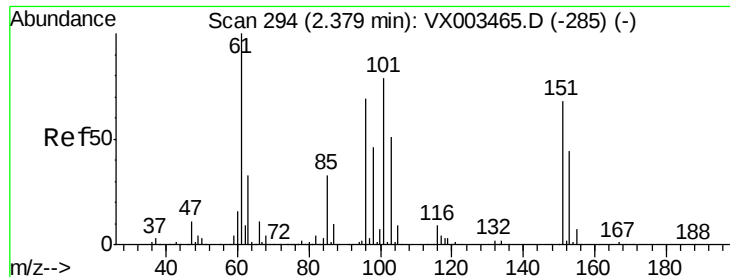
Tgt Ion: 94 Resp: 2012

Ion Ratio Lower Upper

94 100

96 103.2 74.9 112.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 108.61 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-071018

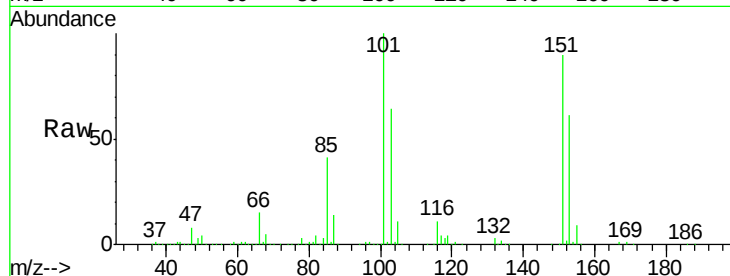
Tot Ion:101 Resp: 376686

Ion Ratio Lower Upper

101 100

85 41.6 36.0 54.0

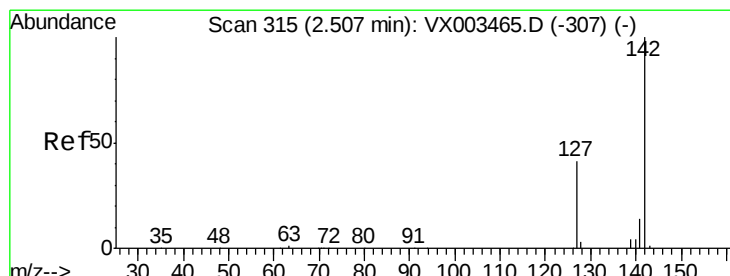
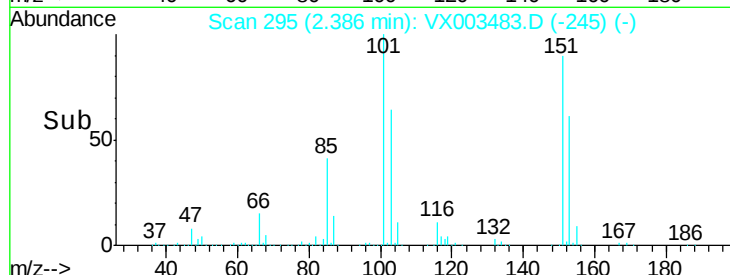
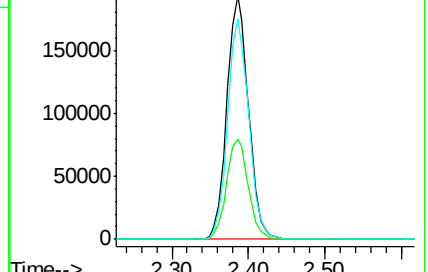
151 88.7 70.9 106.3



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: 0.32 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

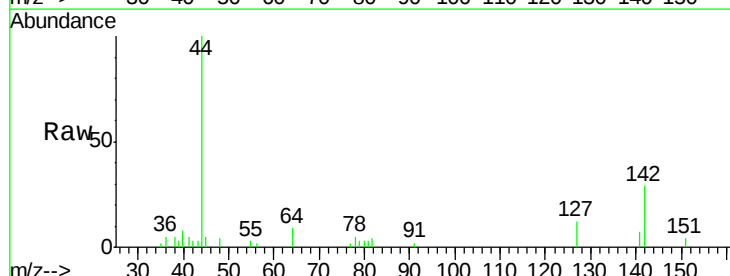
Tgt Ion:142 Resp: 1326

Ion Ratio Lower Upper

142 100

127 47.7 36.6 55.0

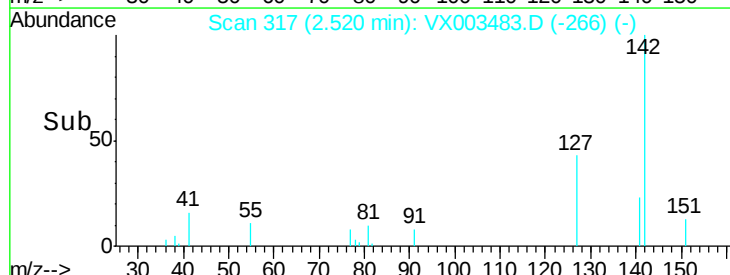
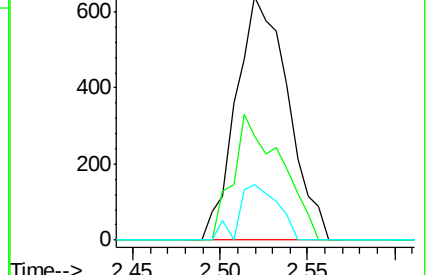
141 17.2 11.3 16.9#

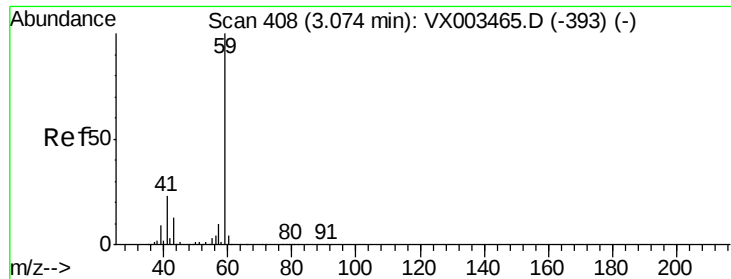


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



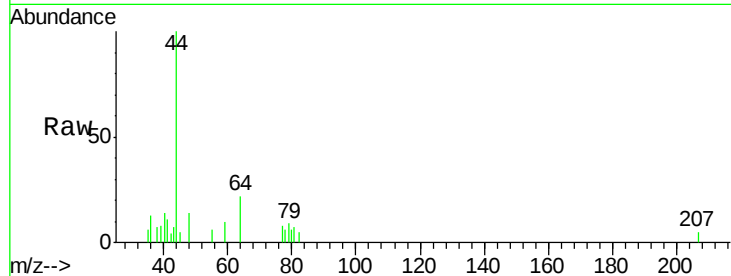


#11

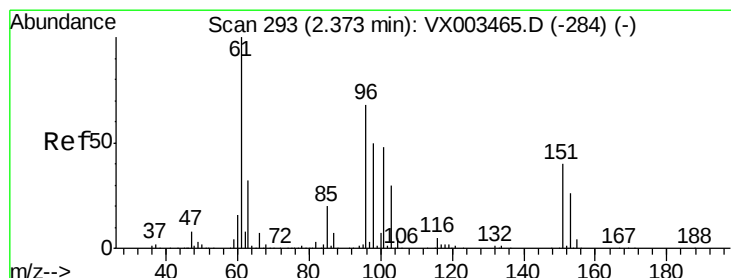
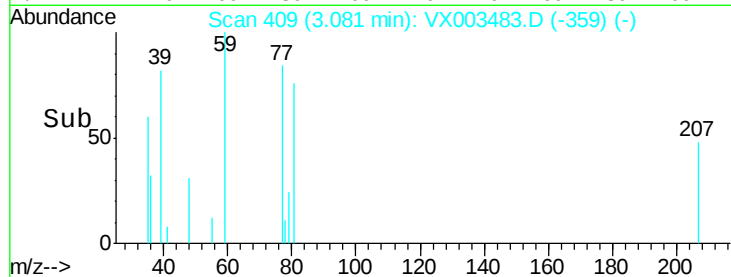
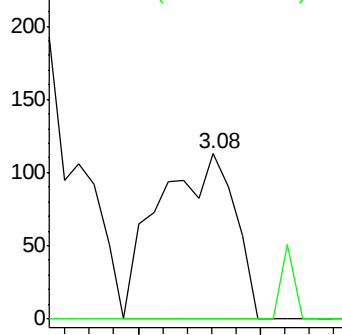
Tert butyl alcohol
 Concen: 0.33 ug/l
 RT: 3.08 min Scan# 409
 Delta R.T. 0.01 min
 Lab File: VX003483.D
 Acq: 20 Jul 2018 00:33

Instrument :
 MSVOA_X
 ClientSampleId :
 RE131D3-071018

Tot Ion: 59 Resp: 245
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#



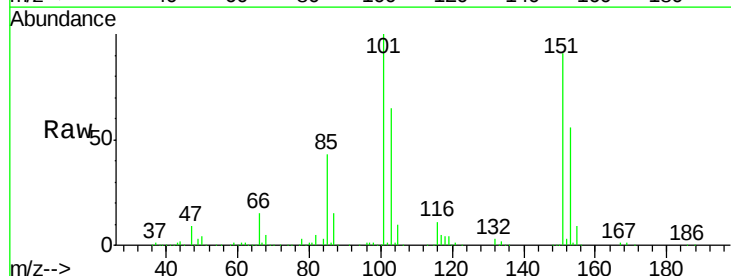
Abundance Ion 59.00 (58.70 to 59.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0



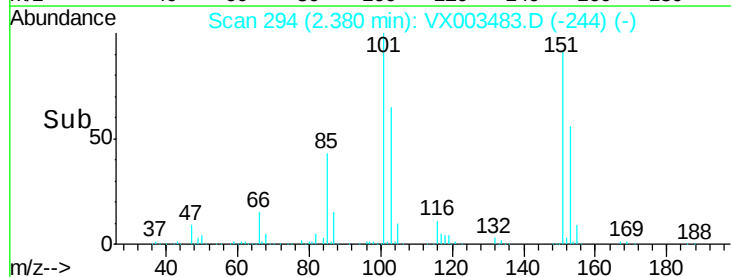
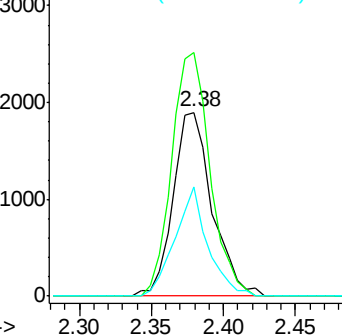
#12

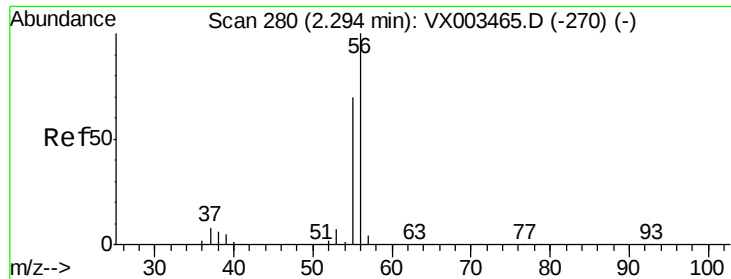
1,1-Dichloroethene
 Concen: 1.12 ug/l
 RT: 2.38 min Scan# 294
 Delta R.T. 0.01 min
 Lab File: VX003483.D
 Acq: 20 Jul 2018 00:33

Tgt Ion: 96 Resp: 3569
 Ion Ratio Lower Upper
 96 100
 61 132.5 137.9 206.9#
 98 59.6 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: 0.25 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

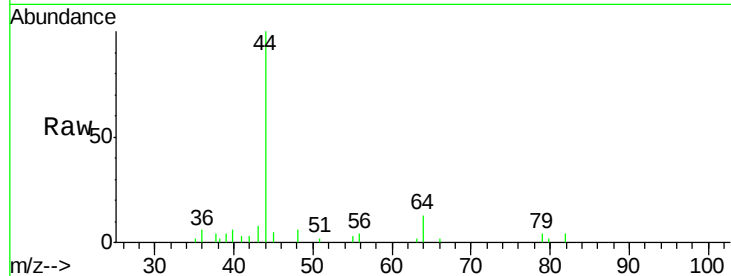
RE131D3-071018

Tot Ion: 56 Resp: 84

Ion Ratio Lower Upper

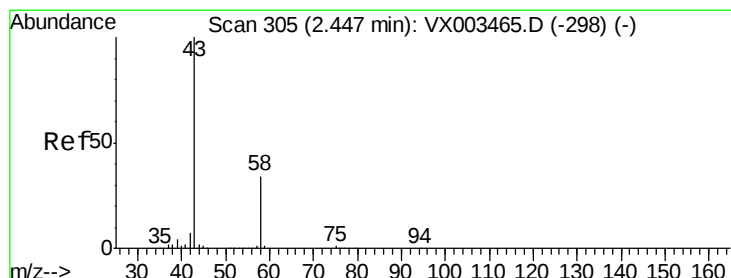
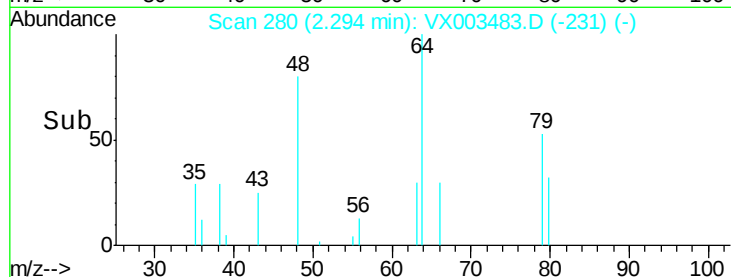
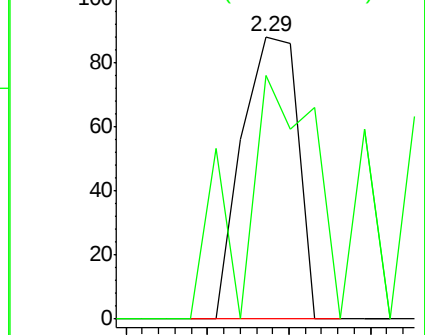
56 100

55 110.7 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: 2.47 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003483.D

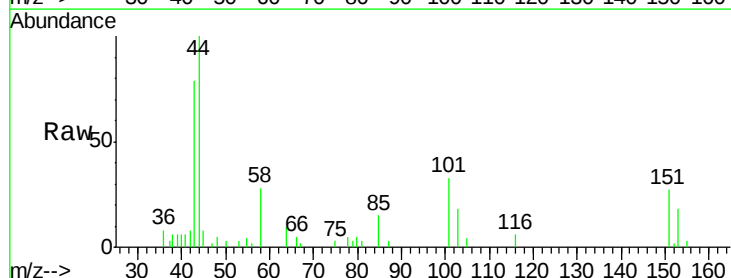
Acq: 20 Jul 2018 00:33

Tgt Ion: 43 Resp: 3448

Ion Ratio Lower Upper

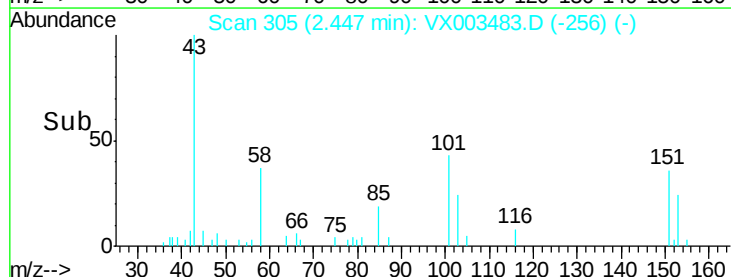
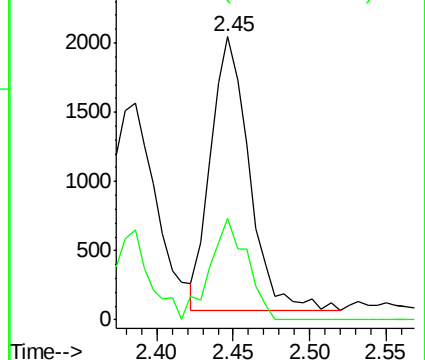
43 100

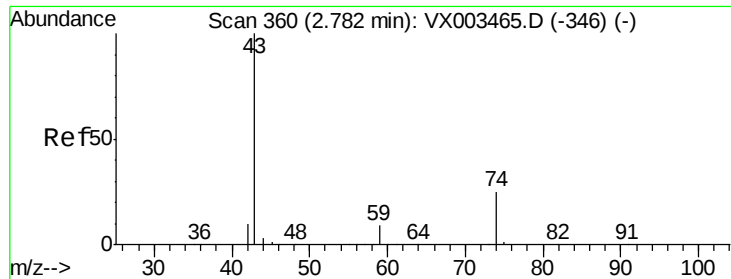
58 37.2 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

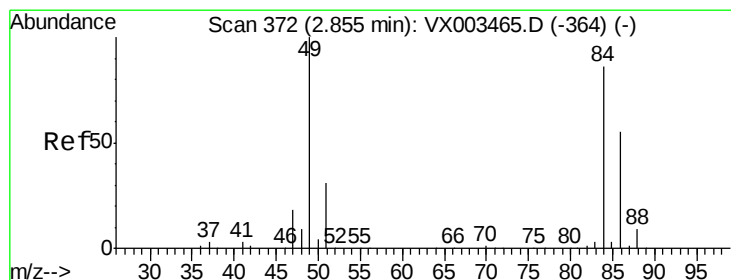
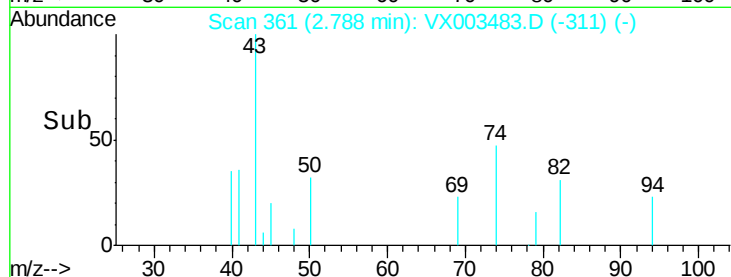
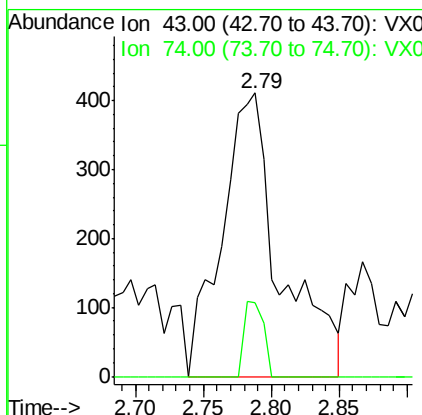
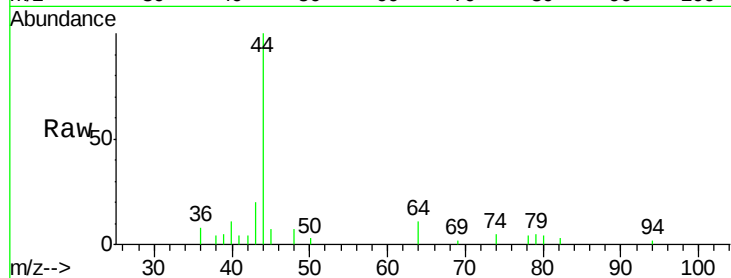




#18
Methyl Acetate
Concen: 0.28 ug/l
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX003483.D
Acq: 20 Jul 2018 00:33

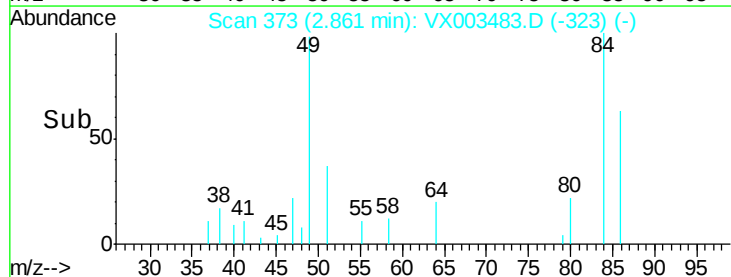
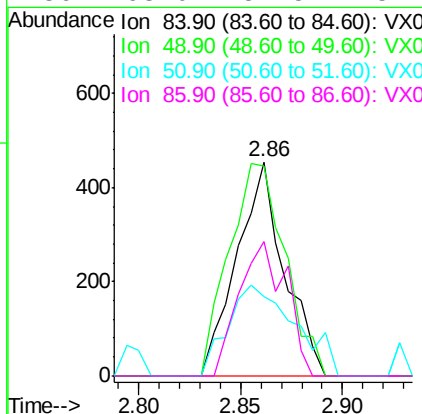
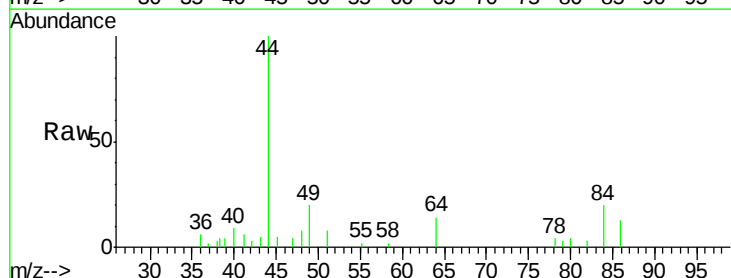
Instrument :
MSVOA_X
ClientSampleId :
RE131D3-071018

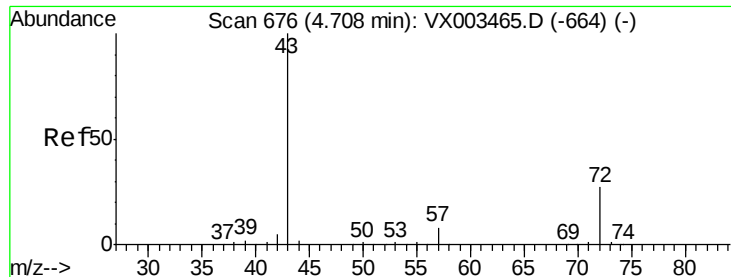
Tot Ion: 43 Resp: 1227
Ion Ratio Lower Upper
43 100
74 8.6 16.7 25.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003483.D
Acq: 20 Jul 2018 00:33

Tgt Ion: 84 Resp: 734
Ion Ratio Lower Upper
84 100
49 98.5 107.8 161.6#
51 37.0 32.8 49.2
86 63.0 52.5 78.7





#25

2-Butanone

Concen: 0.40 ug/l

RT: 4.71 min Scan# 676

Delta R.T. 0.00 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

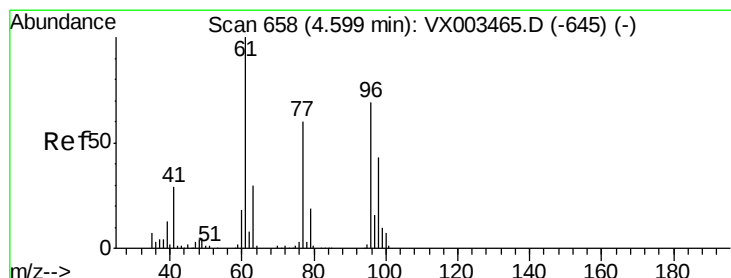
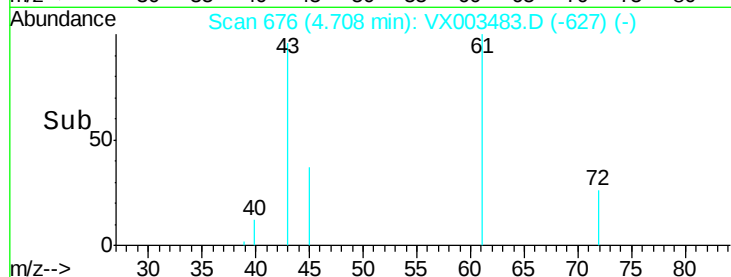
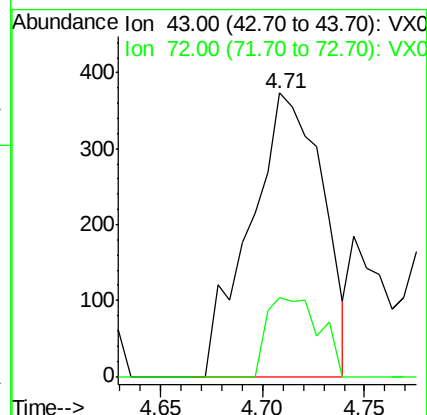
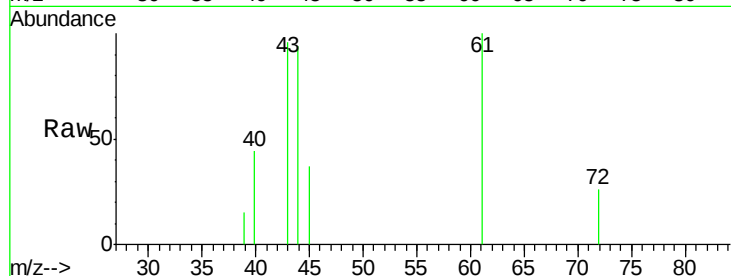
RE131D3-071018

Tot Ion: 43 Resp: 927

Ion Ratio Lower Upper

43 100

72 27.6 18.5 27.7



#27

cis-1,2-Dichloroethene

Concen: 0.61 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

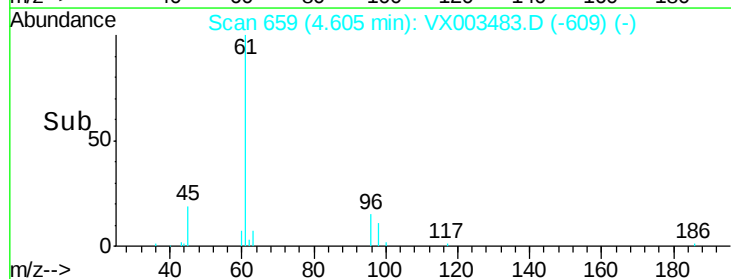
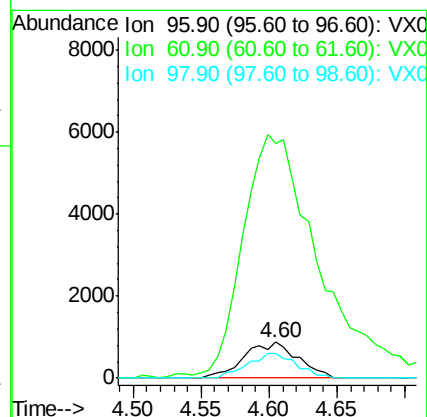
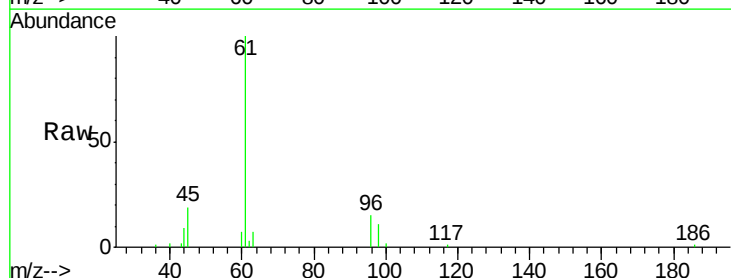
Tgt Ion: 96 Resp: 2431

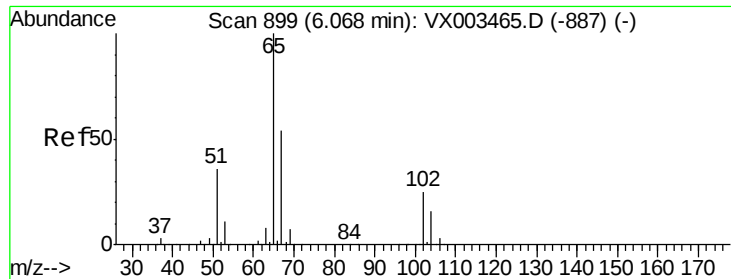
Ion Ratio Lower Upper

96 100

61 983.9 0.0 330.2#

98 61.8 0.0 130.2





#33

1,2-Dichloroethane-d4

Concen: 49.69 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

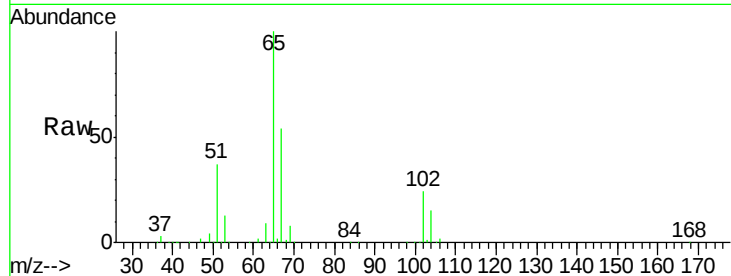
RE131D3-071018

Tot Ion: 65 Resp: 183885

Ion Ratio Lower Upper

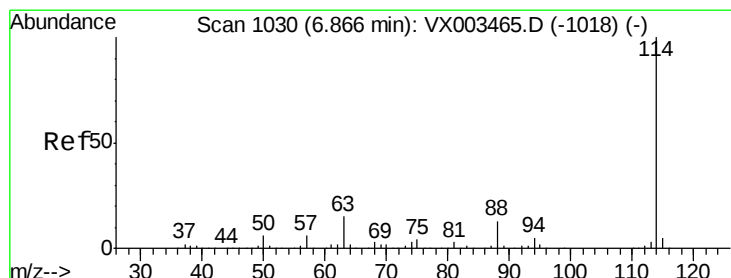
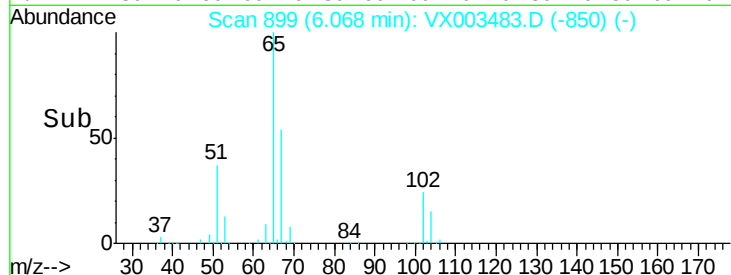
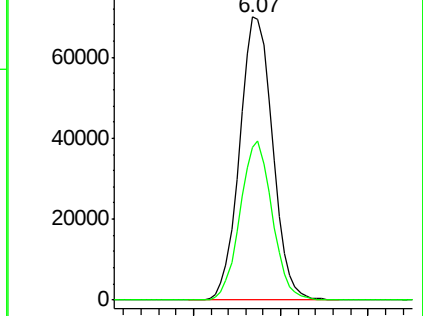
65 100

67 54.7 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: VX003483.D

Acq: 20 Jul 2018 00:33

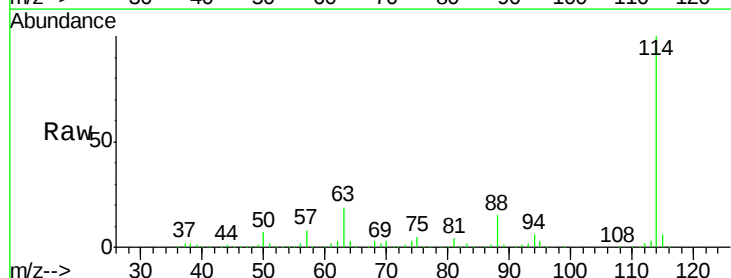
Tgt Ion: 114 Resp: 452427

Ion Ratio Lower Upper

114 100

63 19.0 0.0 41.4

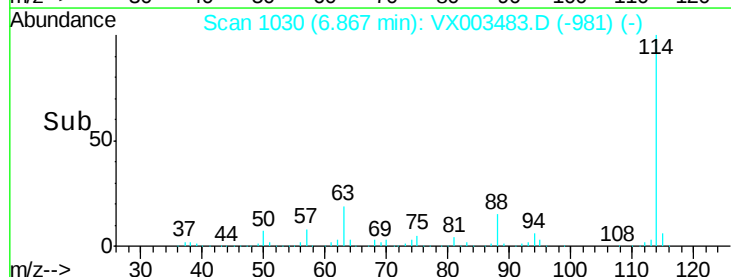
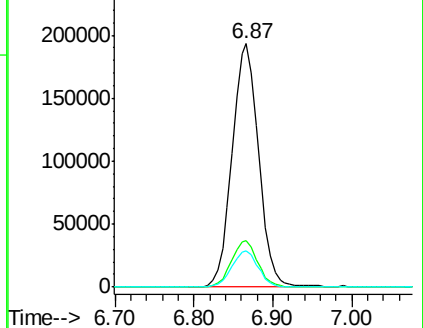
88 14.9 0.0 30.0

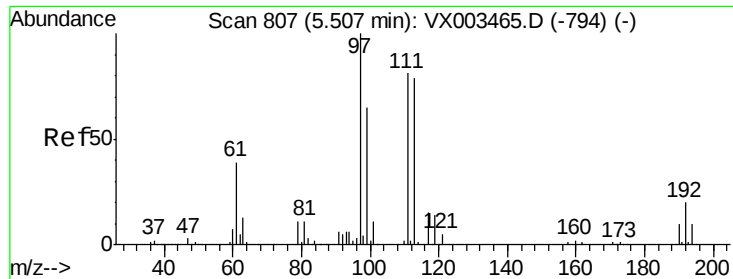


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 52.32 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-071018

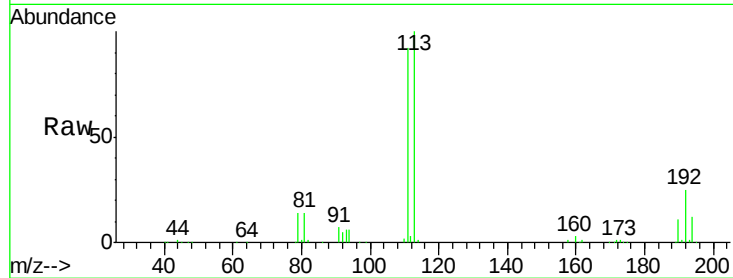
Tot Ion:113 Resp: 180278

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

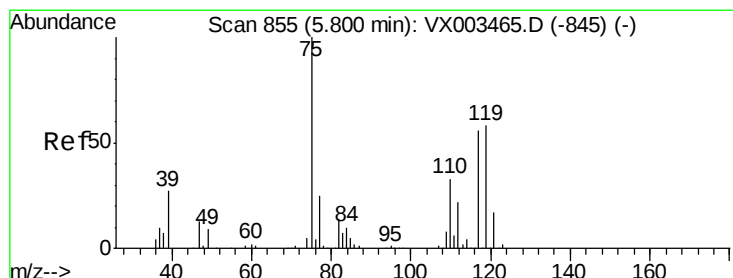
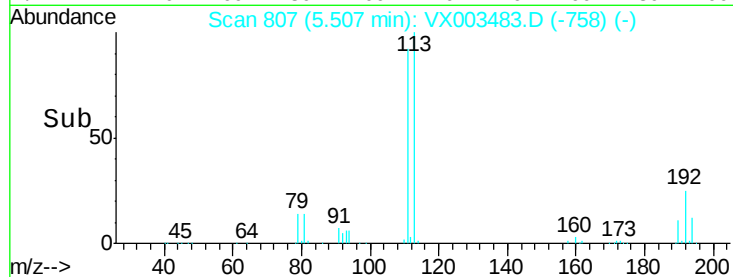
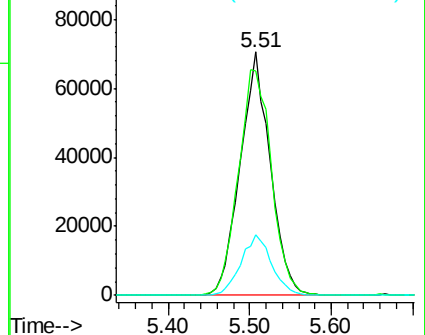
192 25.3 19.1 28.7



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: 3.90 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

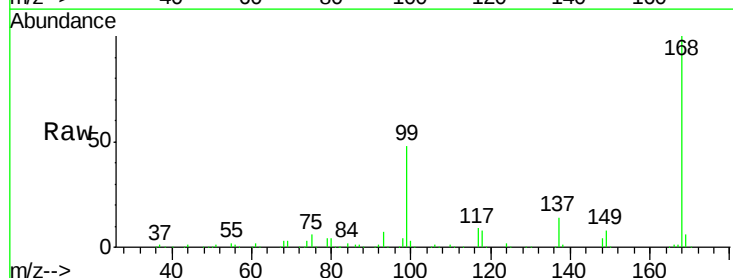
Tgt Ion: 75 Resp: 19059

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.4#

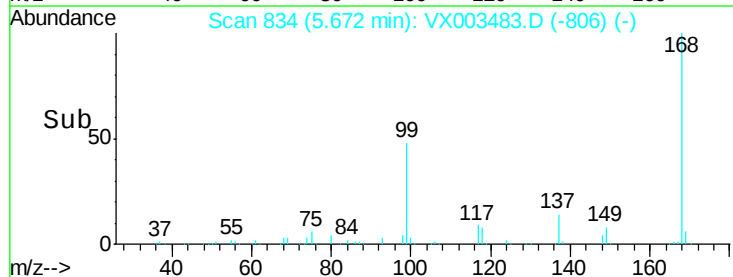
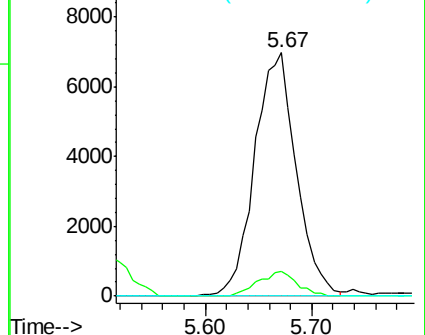
77 0.0 24.3 36.5#

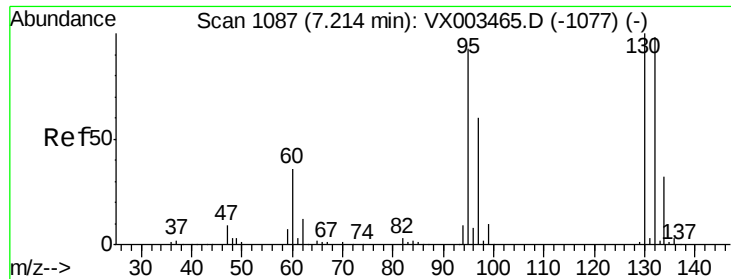


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#44

Trichloroethene

Concen: 8.69 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

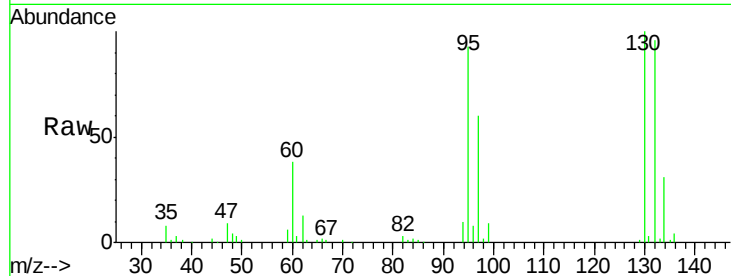
RE131D3-071018

Tot Ion:130 Resp: 38202

Ion Ratio Lower Upper

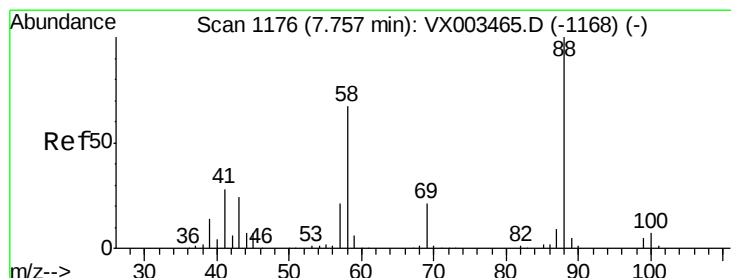
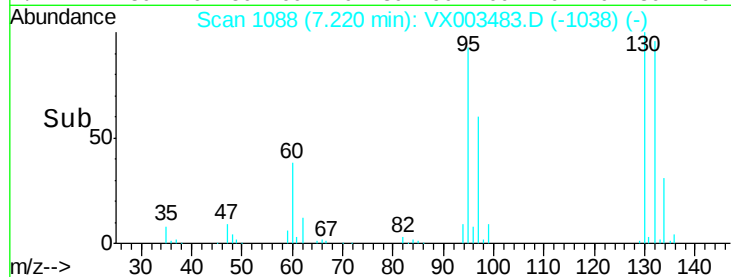
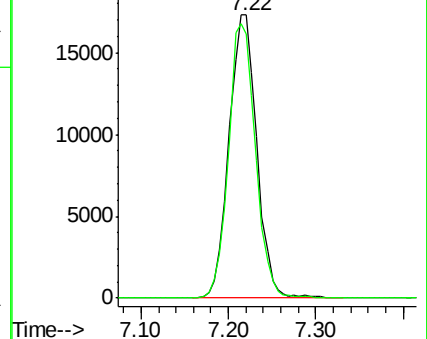
130 100

95 93.2 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: 4.45 ug/l

RT: 7.76 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

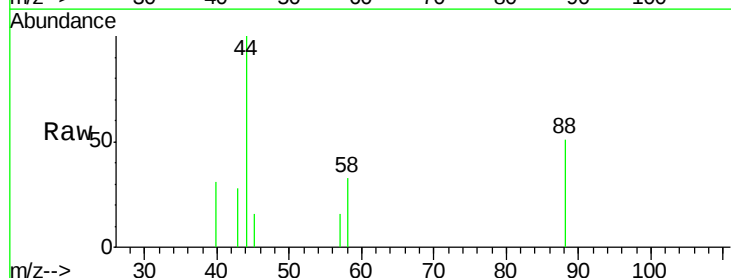
Tgt Ion: 88 Resp: 374

Ion Ratio Lower Upper

88 100

43 105.1 29.8 44.6#

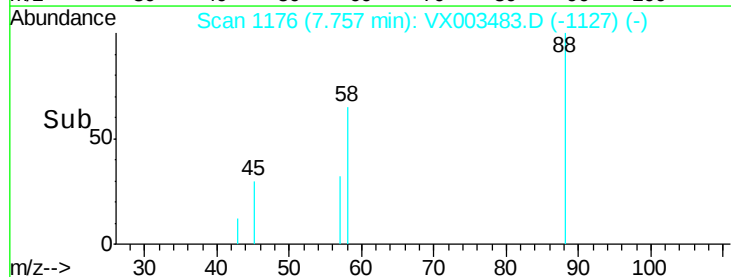
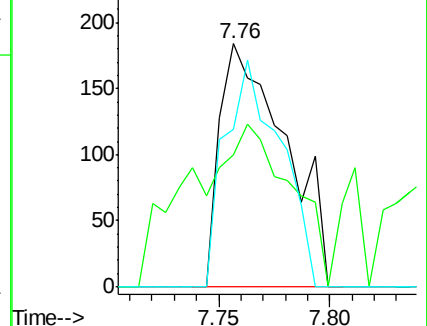
58 79.4 57.1 85.7

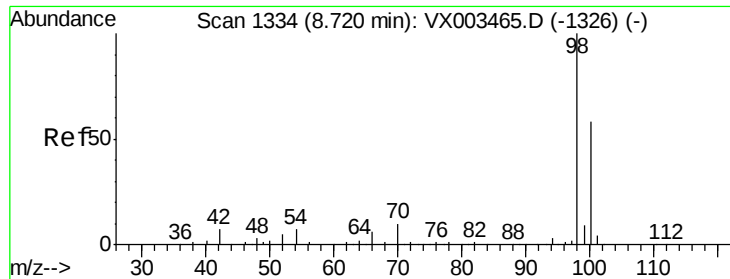


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.86 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

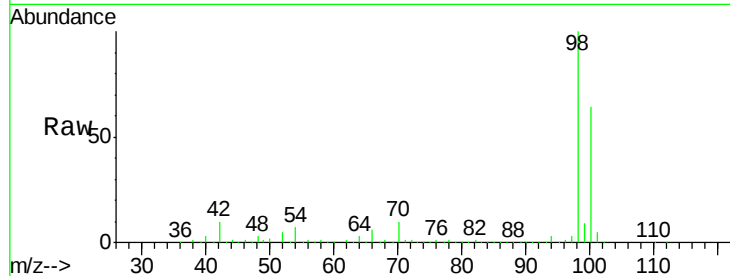
RE131D3-071018

Tot Ion: 98 Resp: 632851

Ion Ratio Lower Upper

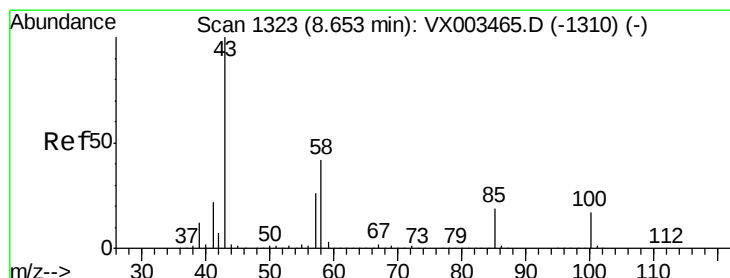
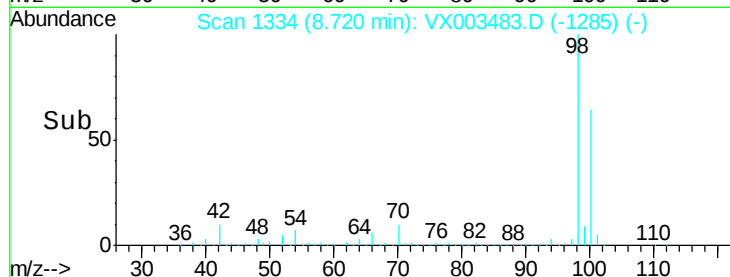
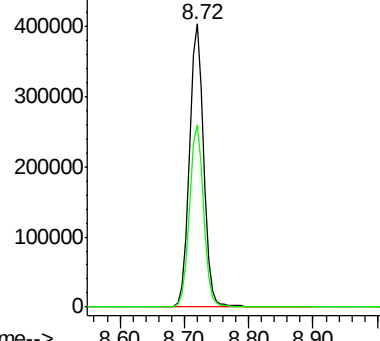
98 100

100 64.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.56 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.07 min

Lab File: VX003483.D

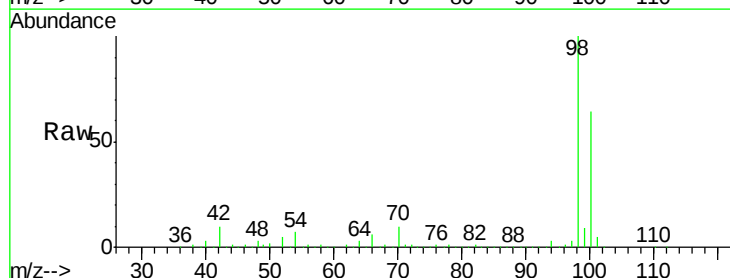
Acq: 20 Jul 2018 00:33

Tgt Ion: 43 Resp: 2605

Ion Ratio Lower Upper

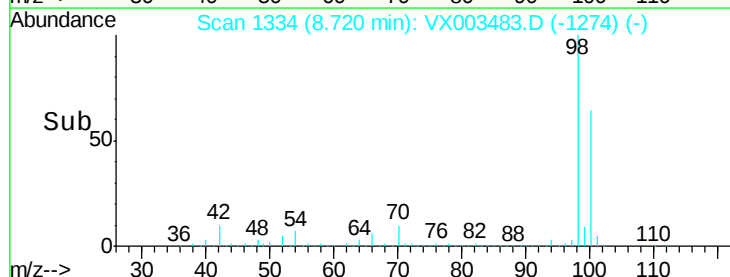
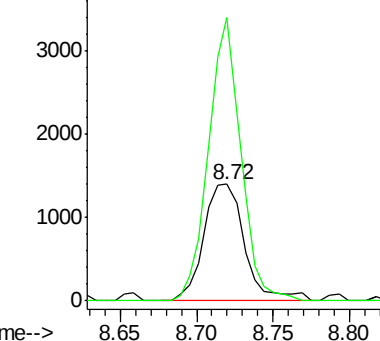
43 100

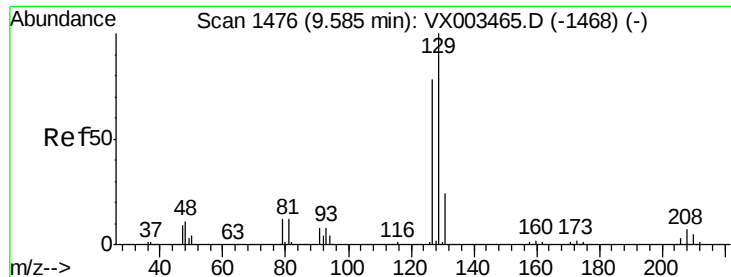
58 191.4 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#60

Dibromochloromethane

Concen: 0.89 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

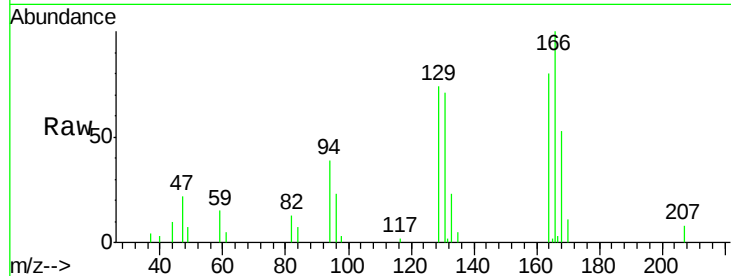
RE131D3-071018

Tot Ion:129 Resp: 3269

Ion Ratio Lower Upper

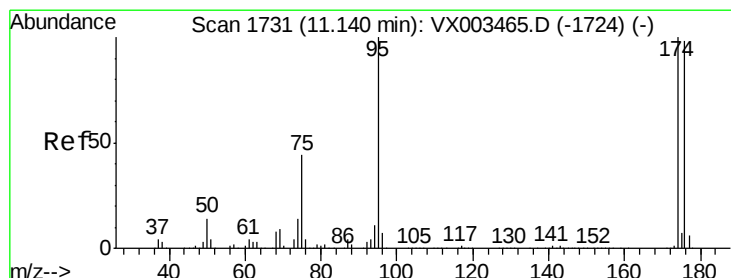
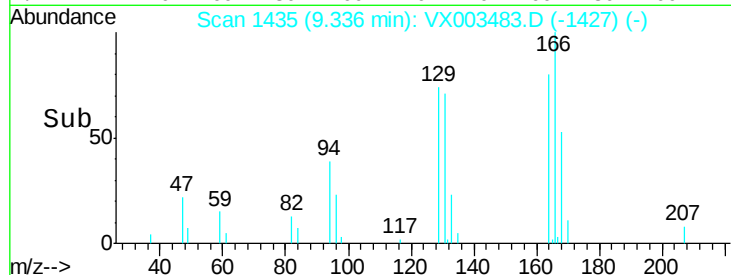
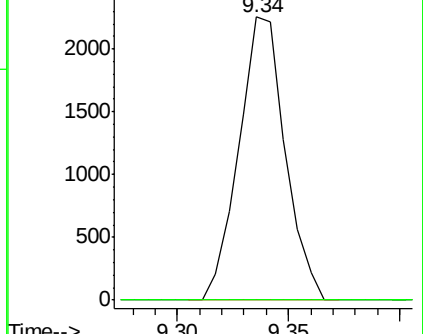
129 100

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: 46.16 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

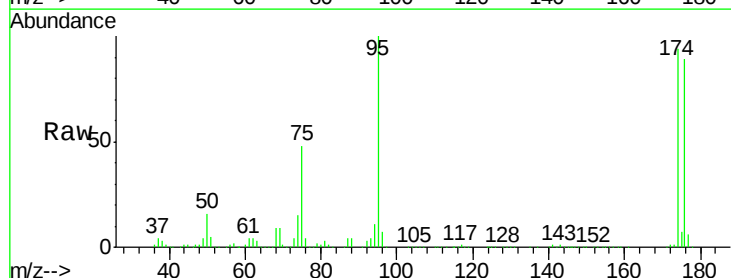
Tgt Ion: 95 Resp: 218192

Ion Ratio Lower Upper

95 100

174 94.2 0.0 187.4

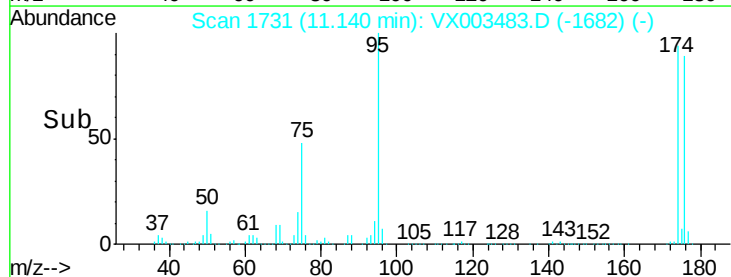
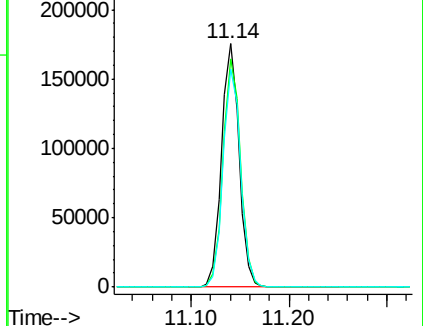
176 90.5 0.0 181.0

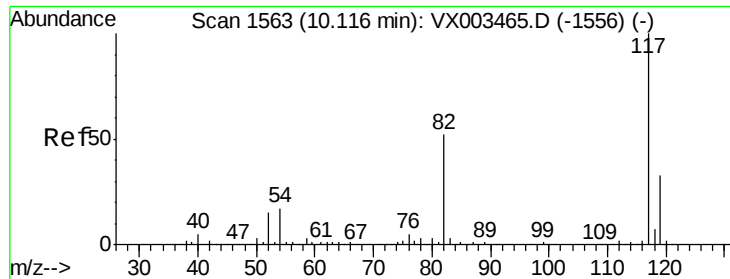


Abundance Ion 94.90 (94.60 to 95.60): VX0

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: VX003483.D

Acq: 20 Jul 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-071018

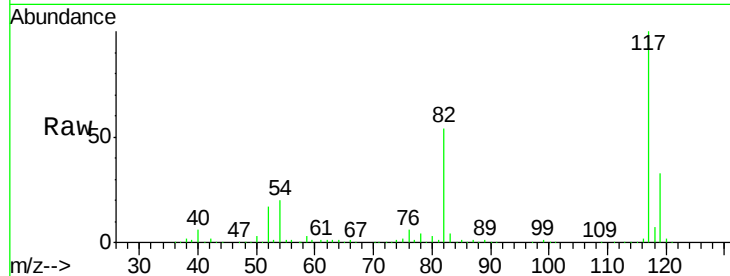
Tot Ion:117 Resp: 415572

Ion Ratio Lower Upper

117 100

82 53.5 45.0 67.4

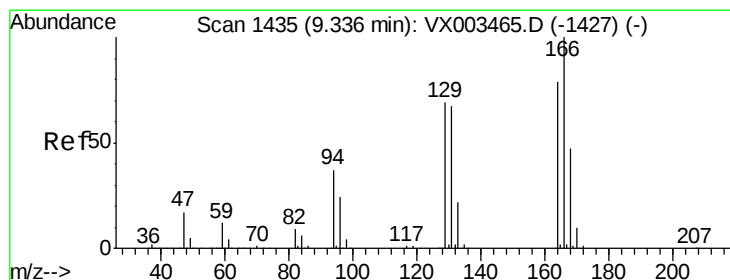
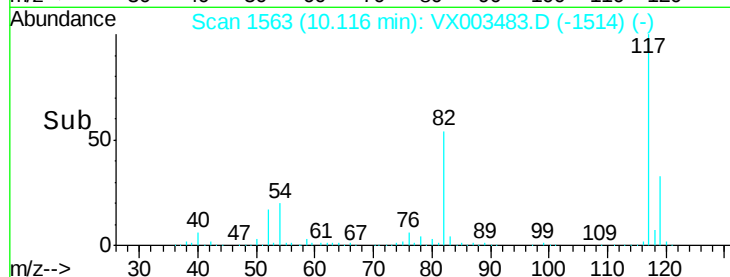
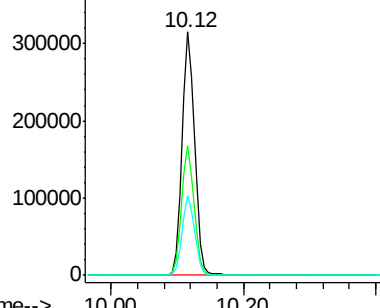
119 32.5 25.8 38.6



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: 0.72 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. 0.00 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

Tgt Ion:164 Resp: 3630

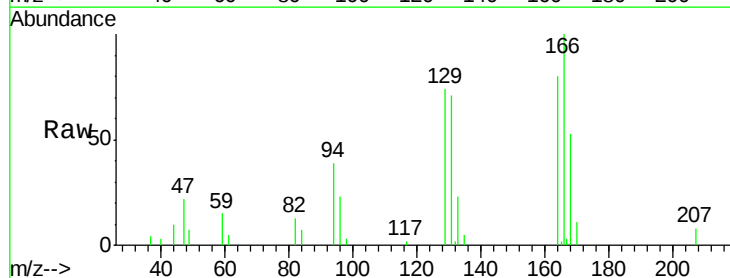
Ion Ratio Lower Upper

164 100

166 125.1 102.9 154.3

129 93.0 68.6 102.8

131 88.5 66.8 100.2

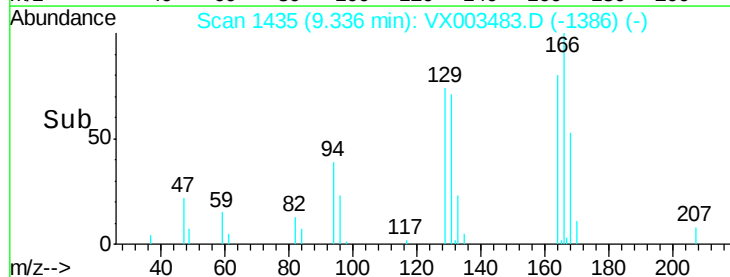
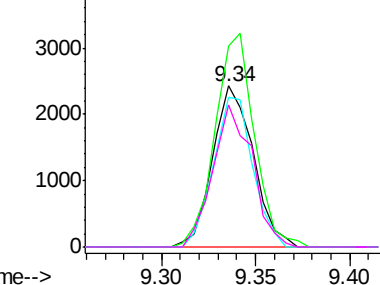


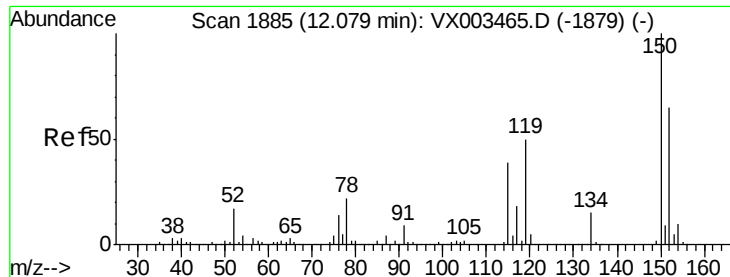
Abundance Ion 163.80 (163.50 to 164.50): V

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: VX003483.D

Acq: 20 Jul 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-071018

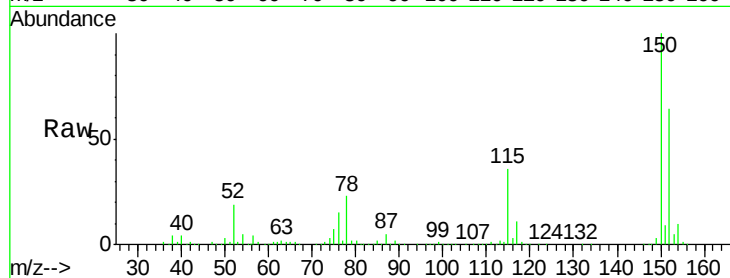
Tot Ion:152 Resp: 228347

Ion Ratio Lower Upper

152 100

115 54.3 40.1 120.2

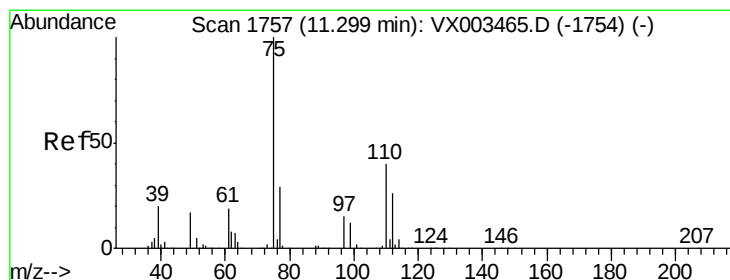
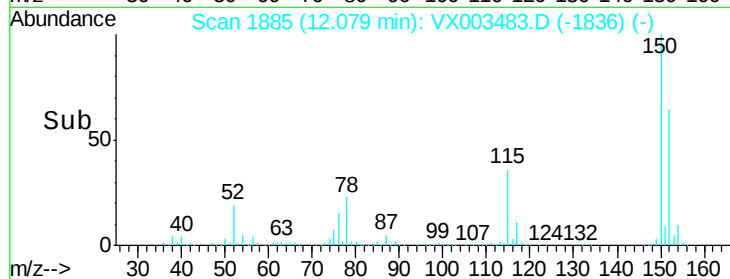
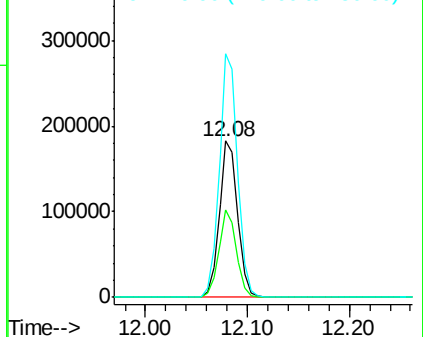
150 155.7 0.0 347.2



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: 25.24 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003483.D

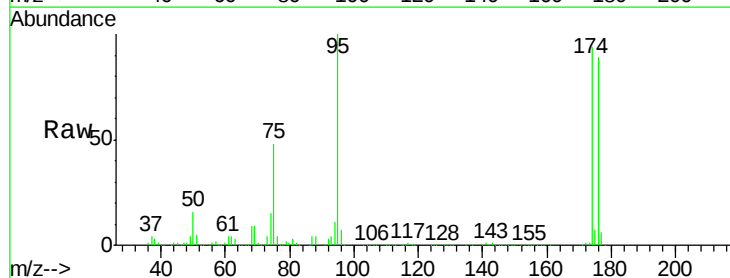
Acq: 20 Jul 2018 00:33

Tgt Ion: 75 Resp: 103534

Ion Ratio Lower Upper

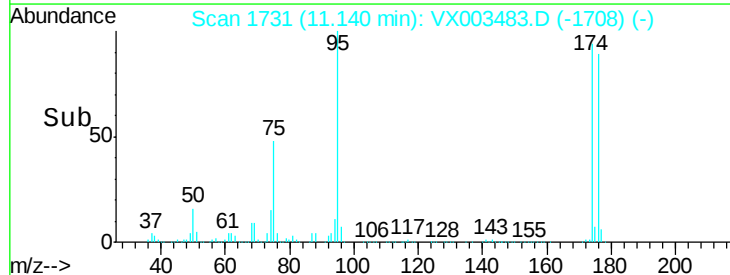
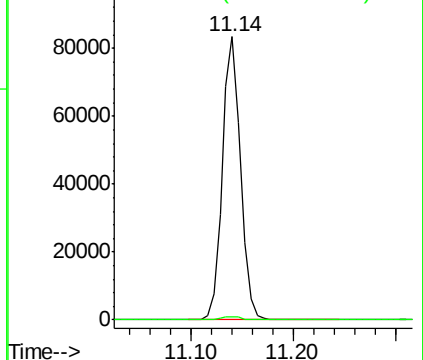
75 100

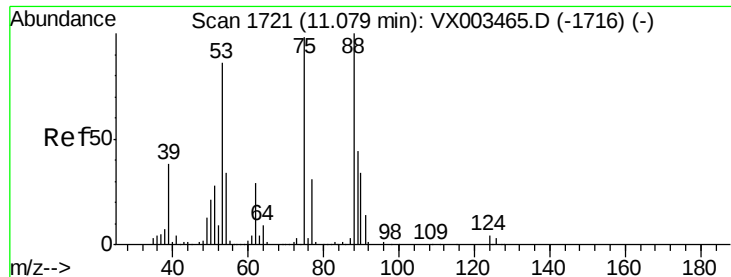
77 1.2 22.8 68.3#



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: 70.65 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003483.D

Acq: 20 Jul 2018 00:33

Instrument :

MSVOA_X

ClientSampleId :

RE131D3-071018

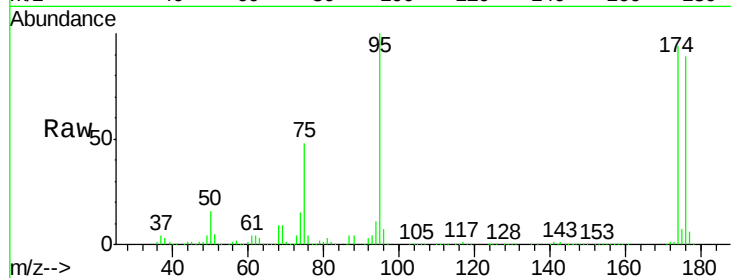
Tot Ion: 75 Resp: 103534

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

