

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072018\
 Data File : VX003516.D
 Acq On : 20 Jul 2018 18:18
 Operator : JC/SP
 Sample : J3170-13DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-071118DL

Quant Time: Jul 20 23:20:26 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	257743	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	383328	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	375254	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	216946	50.00	ug/l	0.00

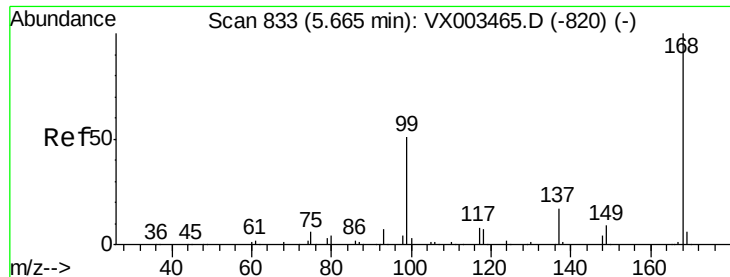
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	162227	53.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.34%	
35) Dibromofluoromethane	5.51	113	142936	48.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.92%	
50) Toluene-d8	8.72	98	560745	51.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.20%	
62) 4-Bromofluorobenzene	11.14	95	204330	51.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.19	85	331	Below Cal		94
3) Chloromethane	1.32	50	764	Below Cal	#	86
5) Bromomethane	1.64	94	2377	Below Cal		93
9) 1,1,2-Trichlorotrifluoroet	2.37	101	4018	1.41	ug/l	96
10) Methyl Iodide	2.51	142	2743	0.80	ug/l	97
11) Tert butyl alcohol	3.03	59	2750	4.56	ug/l	# 81
12) 1,1-Dichloroethene	2.36	96	2660	1.01	ug/l	93
13) Acrolein	2.30	56	123	0.45	ug/l	# 1
15) Acrylonitrile	3.14	53	494	0.32	ug/l	# 60
16) Acetone	2.46	43	1044	0.91	ug/l	# 67
17) Carbon Disulfide	2.56	76	2378	0.33	ug/l	# 91
18) Methyl Acetate	2.79	43	1986	0.55	ug/l	99
20) Methylene Chloride	2.85	84	1111	Below Cal	#	96
24) 1,1-Dichloroethane	3.70	63	1198	0.23	ug/l	# 90
27) cis-1,2-Dichloroethene	4.60	96	1261	0.39	ug/l	# 11
29) Tetrahydrofuran	5.18	42	1036	0.81	ug/l	99
38) Carbon Tetrachloride	5.67	117	22769	5.61	ug/l	# 15
44) Trichloroethene	7.21	130	229918	61.70	ug/l	100
49) 1,4-Dioxane	7.77	88	181	2.54	ug/l	# 39
76) 1,2,3-Trichloropropane	11.14	75	96987	24.89	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	96987	69.70	ug/l	# 7
91) 1,2-Dichlorobenzene	12.40	146	3952	0.51	ug/l	98
93) 1,2,4-Trichlorobenzene	13.65	180	1166	0.20	ug/l	98

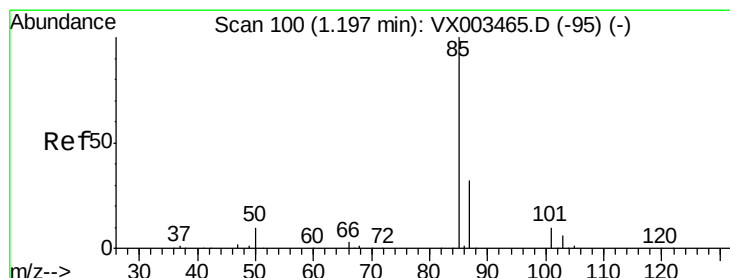
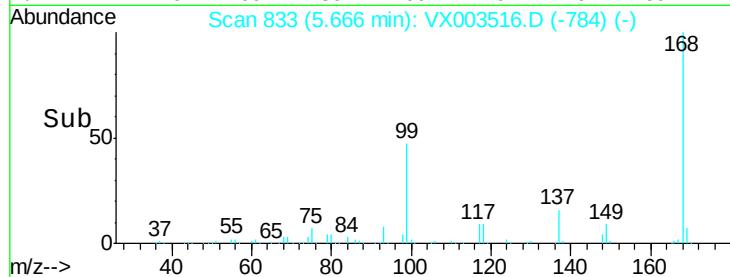
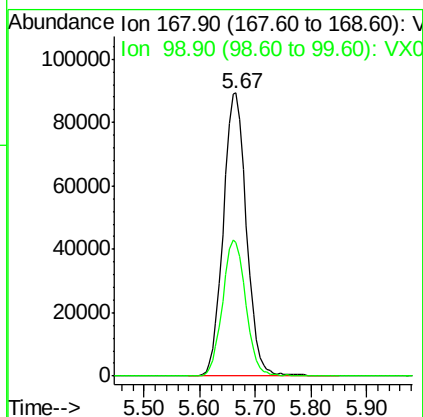
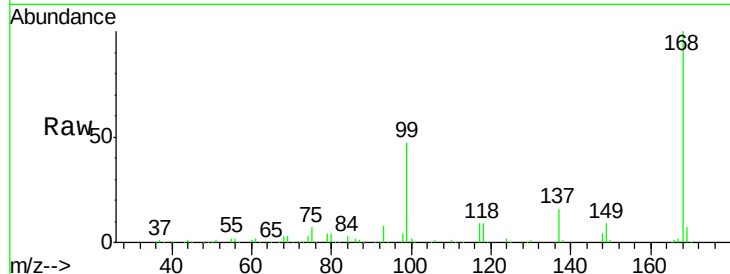
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.00 min
Lab File: VX003516.D
Acq: 20 Jul 2018 18:18

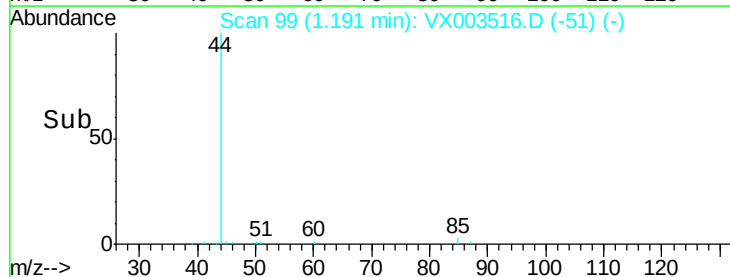
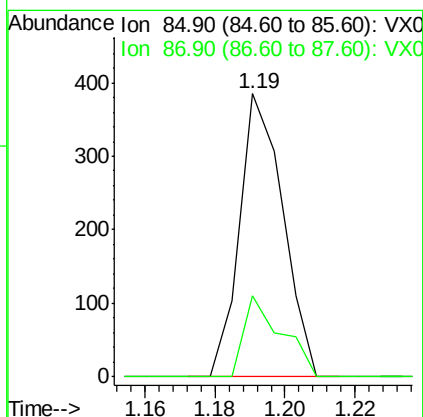
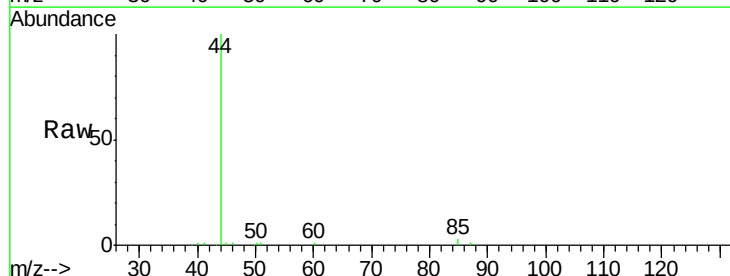
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-071118DL

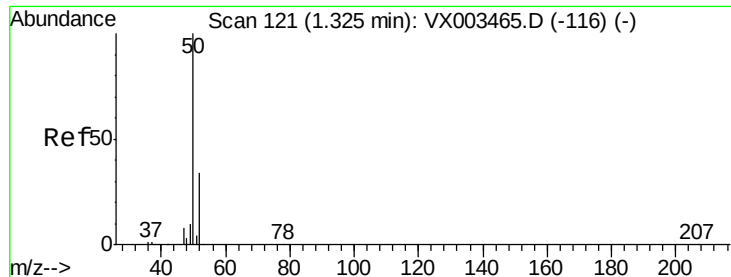
Tot Ion:168 Resp: 257743
Ion Ratio Lower Upper
168 100
99 47.4 39.3 58.9



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.19 min Scan# 99
Delta R.T. -0.01 min
Lab File: VX003516.D
Acq: 20 Jul 2018 18:18

Tgt Ion: 85 Resp: 331
Ion Ratio Lower Upper
85 100
87 28.6 16.0 47.9





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003516.D

Acq: 20 Jul 2018 18:18

Instrument :

MSVOA_X

ClientSampleId :

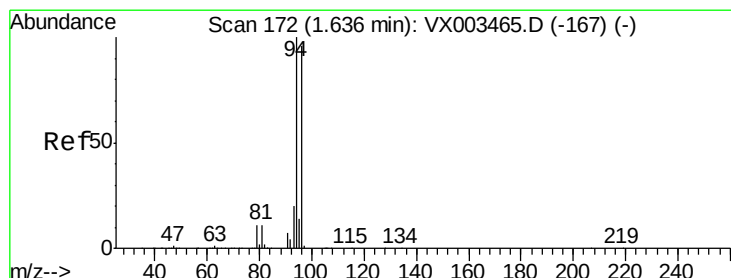
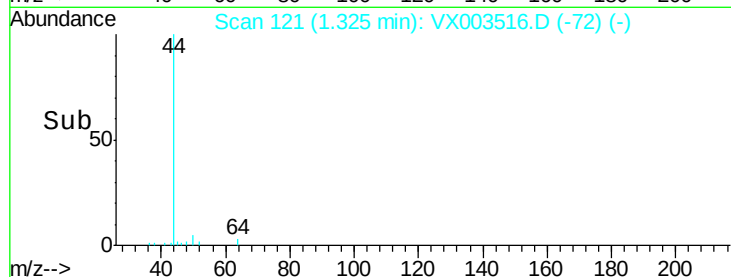
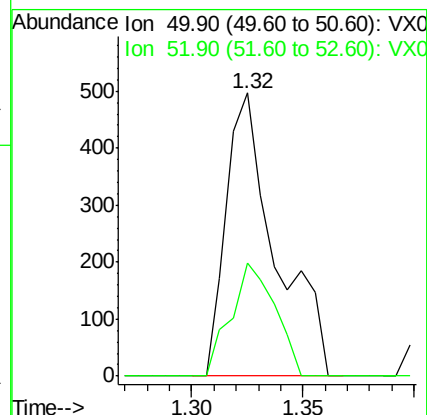
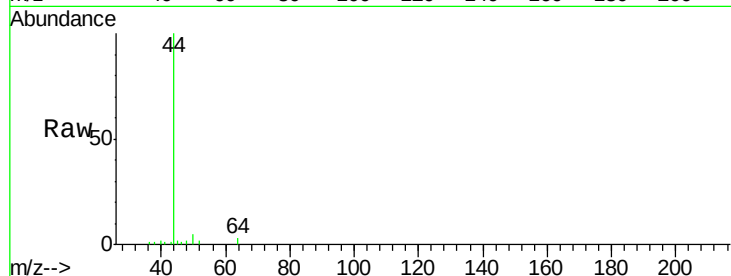
RE120D1-071118DL

Tot Ion: 50 Resp: 764

Ion Ratio Lower Upper

50 100

52 40.0 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX003516.D

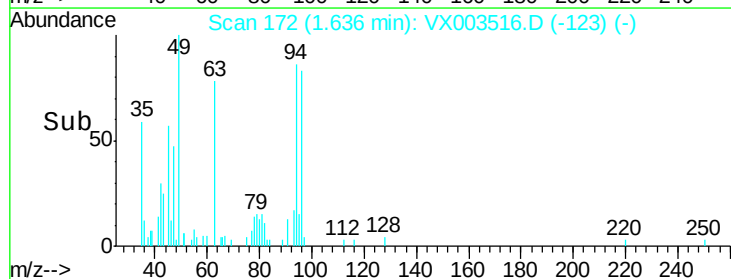
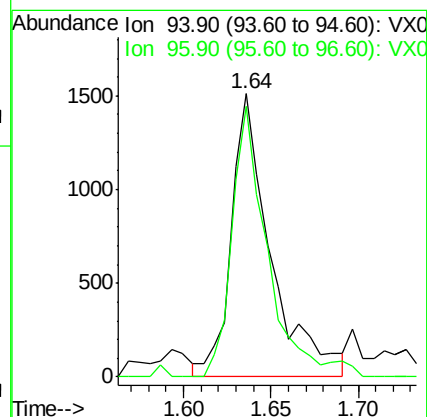
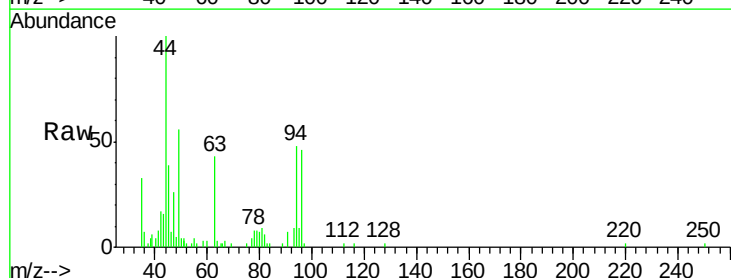
Acq: 20 Jul 2018 18:18

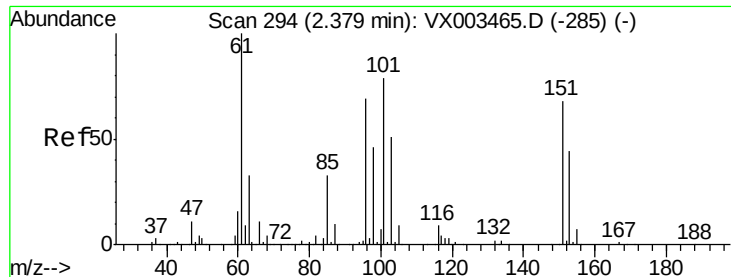
Tgt Ion: 94 Resp: 2377

Ion Ratio Lower Upper

94 100

96 100.1 74.9 112.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.41 ug/l

RT: 2.37 min Scan# 292

Delta R.T. -0.01 min

Lab File: VX003516.D

Acq: 20 Jul 2018 18:18

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-071118DL

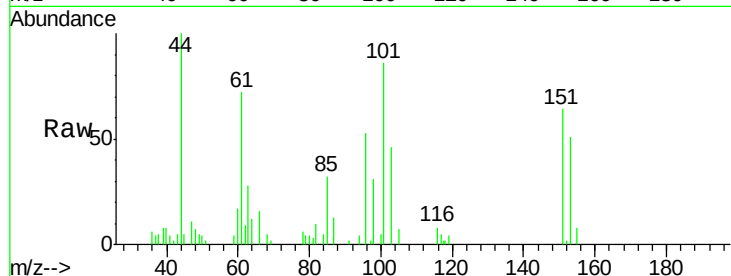
Tot Ion:101 Resp: 4018

Ion Ratio Lower Upper

101 100

85 45.4 36.0 54.0

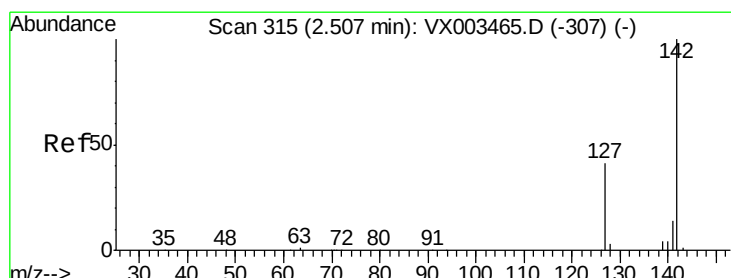
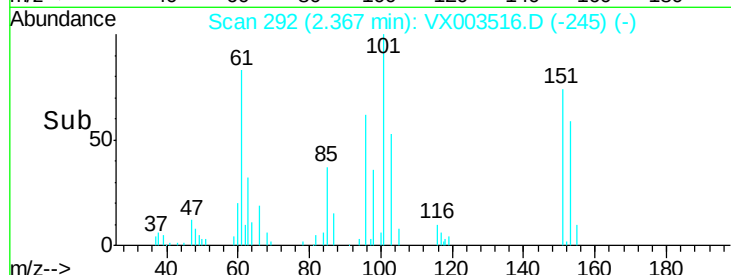
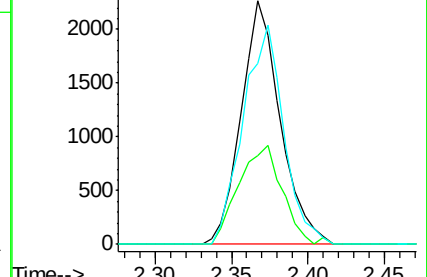
151 93.4 70.9 106.3



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: 0.80 ug/l

RT: 2.51 min Scan# 315

Delta R.T. 0.00 min

Lab File: VX003516.D

Acq: 20 Jul 2018 18:18

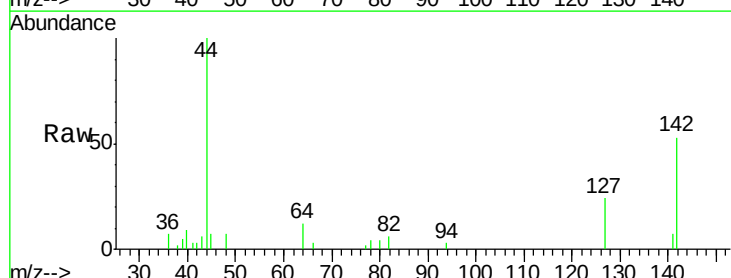
Tgt Ion:142 Resp: 2743

Ion Ratio Lower Upper

142 100

127 43.1 36.6 55.0

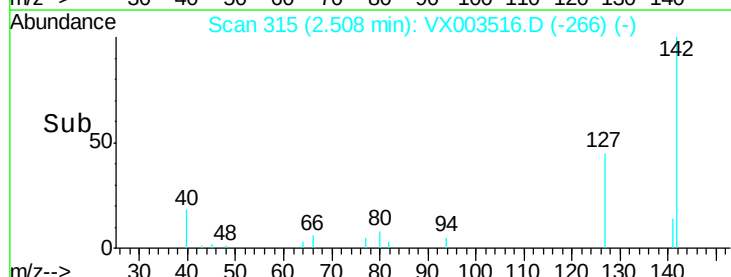
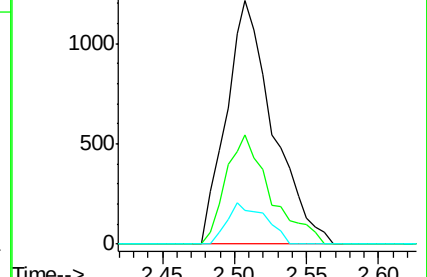
141 13.9 11.3 16.9

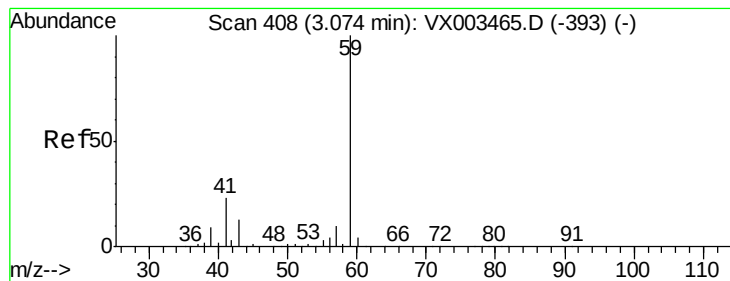


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



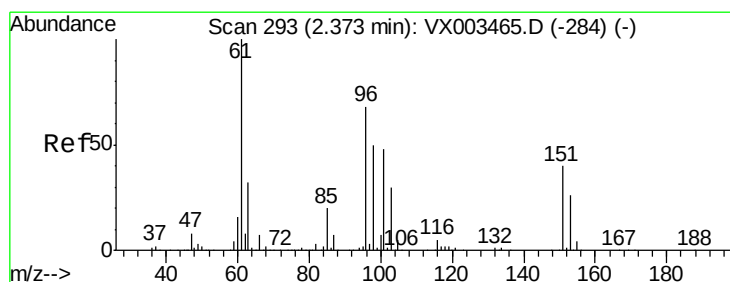
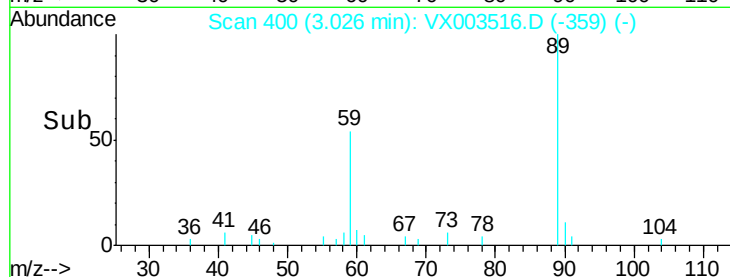
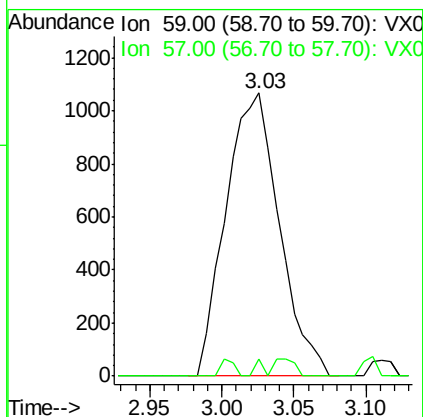
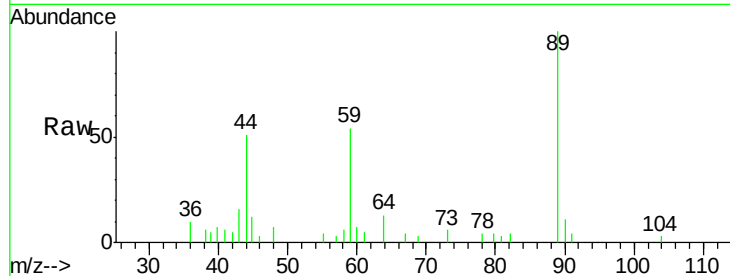


#11

Tert butyl alcohol
 Concen: 4.56 ug/l
 RT: 3.03 min Scan# 400
 Delta R.T. -0.05 min
 Lab File: VX003516.D
 Acq: 20 Jul 2018 18:18

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-071118DL

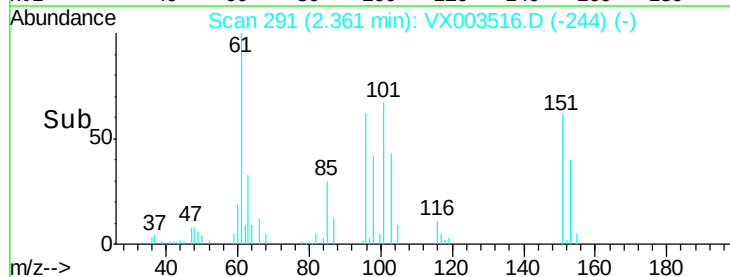
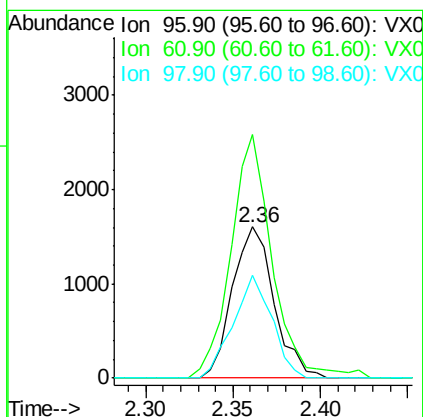
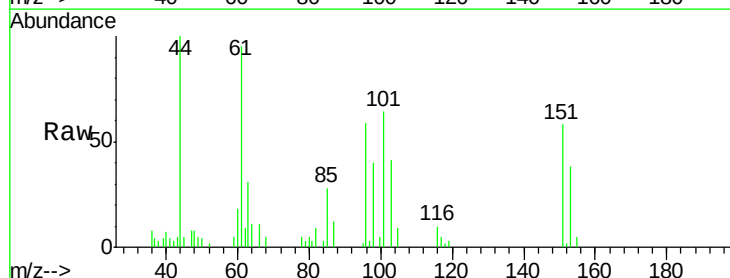
Tot Ion: 59 Resp: 2750
 Ion Ratio Lower Upper
 59 100
 57 3.3 8.2 12.2#

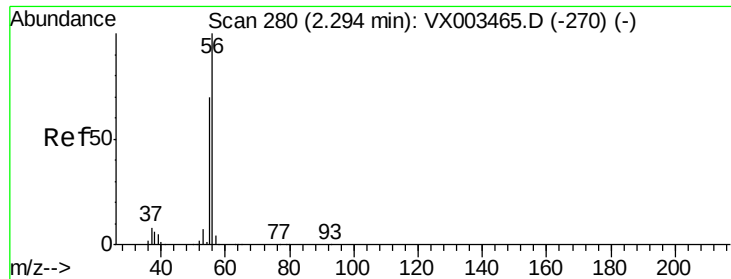


#12

1,1-Dichloroethene
 Concen: 1.01 ug/l
 RT: 2.36 min Scan# 291
 Delta R.T. -0.01 min
 Lab File: VX003516.D
 Acq: 20 Jul 2018 18:18

Tgt Ion: 96 Resp: 2660
 Ion Ratio Lower Upper
 96 100
 61 160.8 137.9 206.9
 98 68.3 51.6 77.4





#13

Acrolein

Concen: 0.45 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003516.D

Acq: 20 Jul 2018 18:18

Instrument :

MSVOA_X

ClientSampleId :

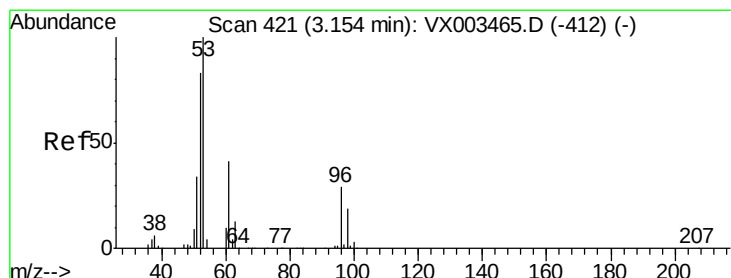
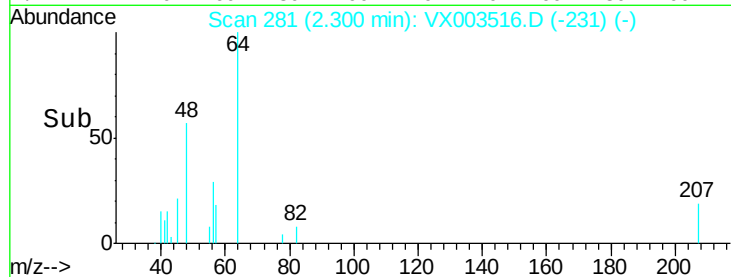
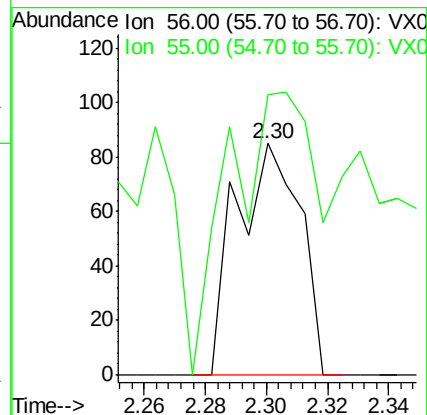
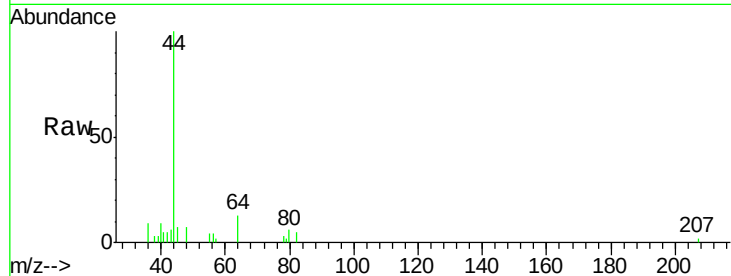
RE120D1-071118DL

Tot Ion: 56 Resp: 123

Ion Ratio Lower Upper

56 100

55 165.9 57.0 85.4#



#15

Acrylonitrile

Concen: 0.32 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX003516.D

Acq: 20 Jul 2018 18:18

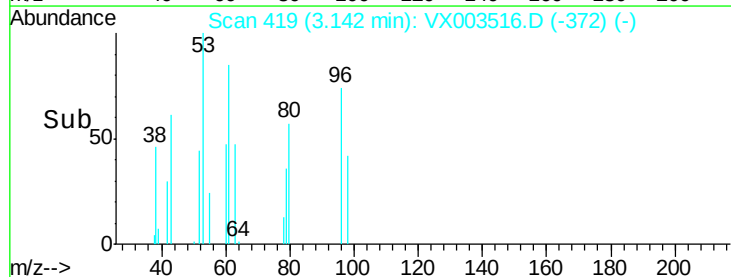
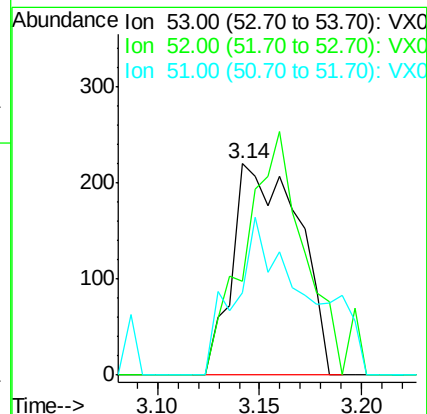
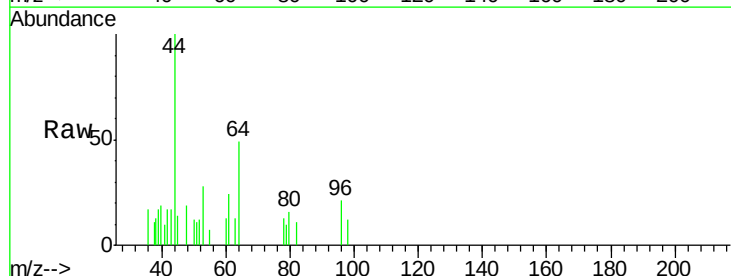
Tgt Ion: 53 Resp: 494

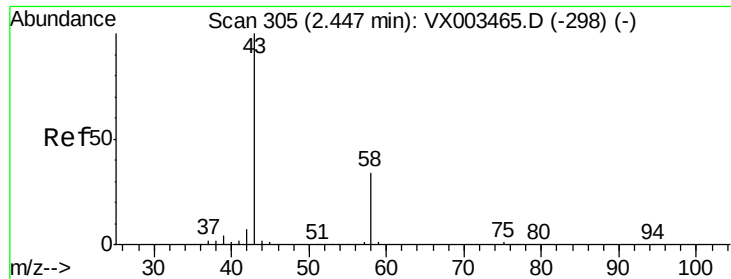
Ion Ratio Lower Upper

53 100

52 106.3 66.7 100.1#

51 81.2 29.9 44.9#





#16

Acetone

Concen: 0.91 ug/l

RT: 2.46 min Scan# 307

Delta R.T. 0.01 min

Lab File: VX003516.D

Acq: 20 Jul 2018 18:18

Instrument :

MSVOA_X

ClientSampleId :

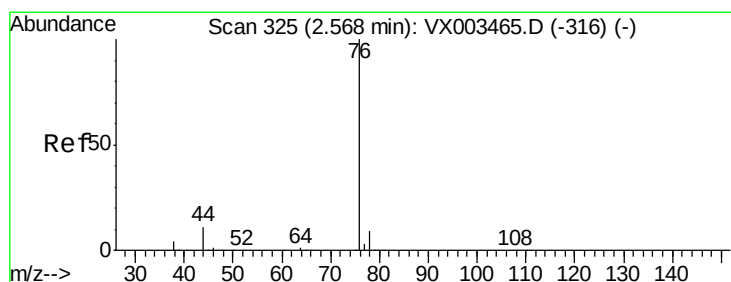
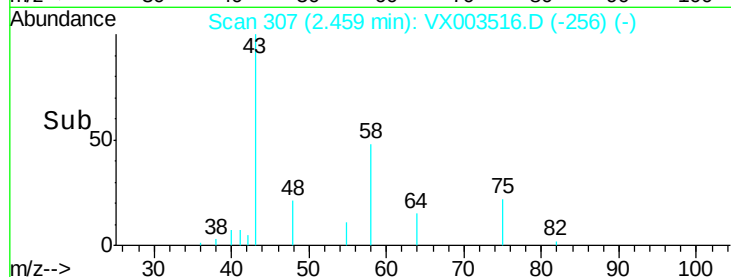
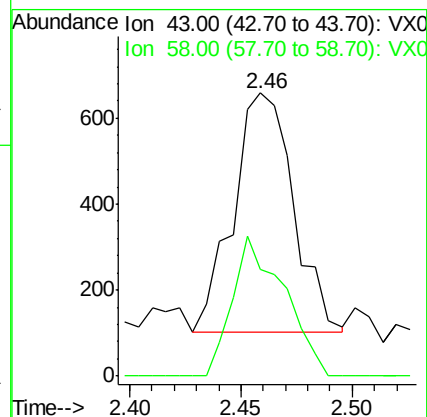
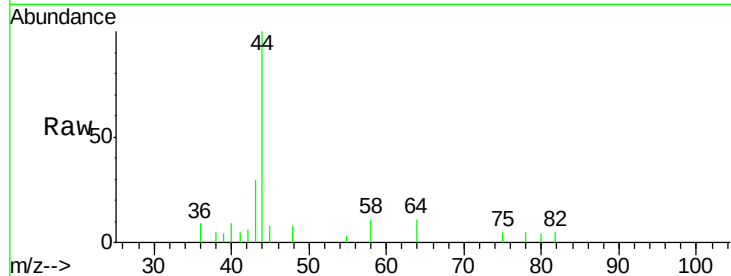
RE120D1-071118DL

Tot Ion: 43 Resp: 1044

Ion Ratio Lower Upper

43 100

58 44.7 22.1 33.1#



#17

Carbon Disulfide

Concen: 0.33 ug/l

RT: 2.56 min Scan# 323

Delta R.T. -0.01 min

Lab File: VX003516.D

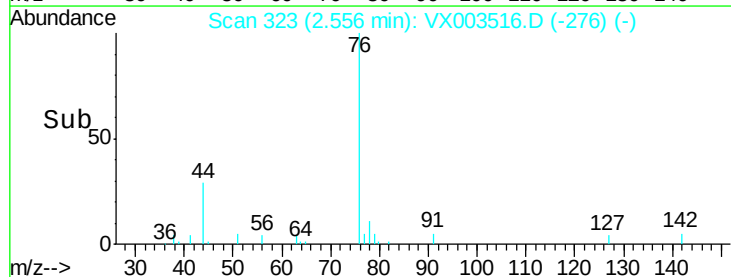
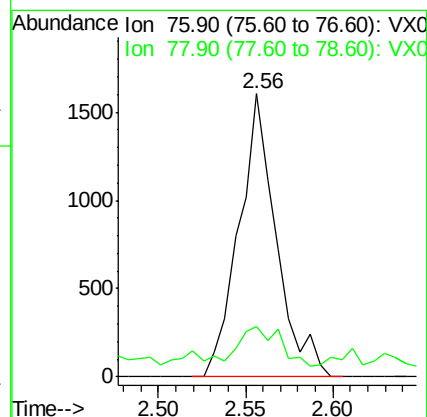
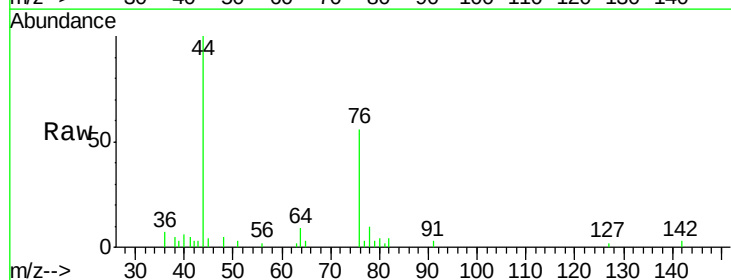
Acq: 20 Jul 2018 18:18

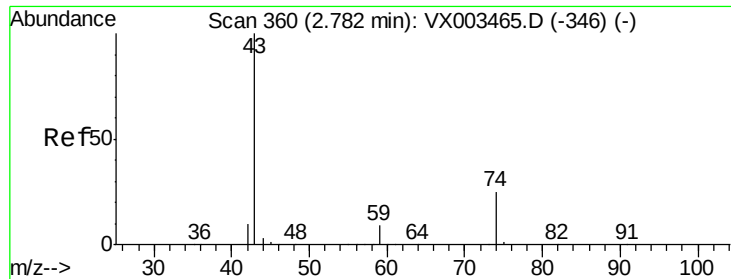
Tgt Ion: 76 Resp: 2378

Ion Ratio Lower Upper

76 100

78 12.0 6.9 10.3#

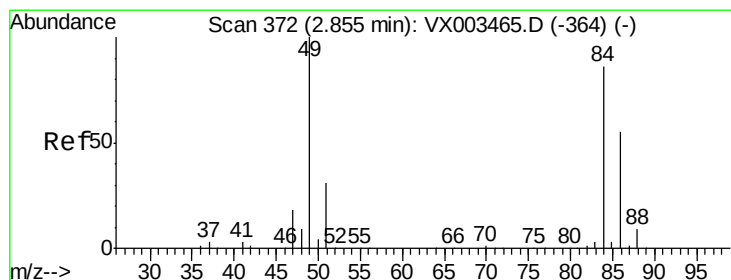
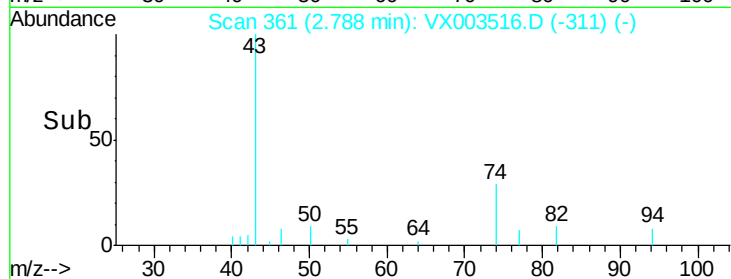
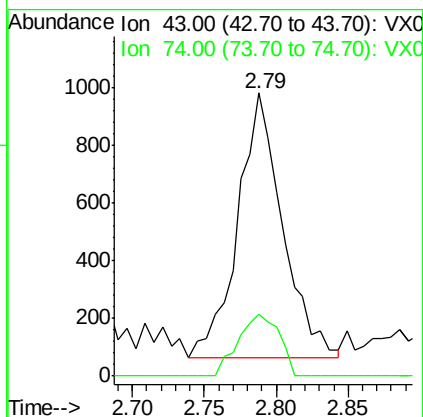
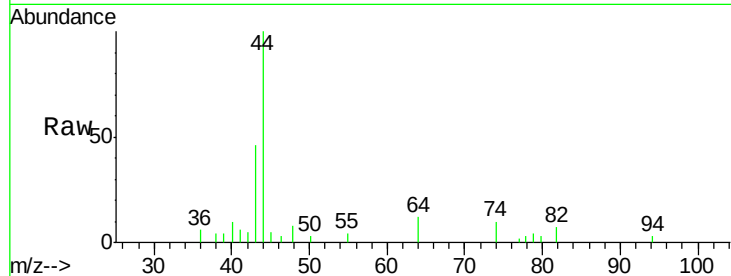




#18
Methyl Acetate
Concen: 0.55 ug/l
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX003516.D
Acq: 20 Jul 2018 18:18

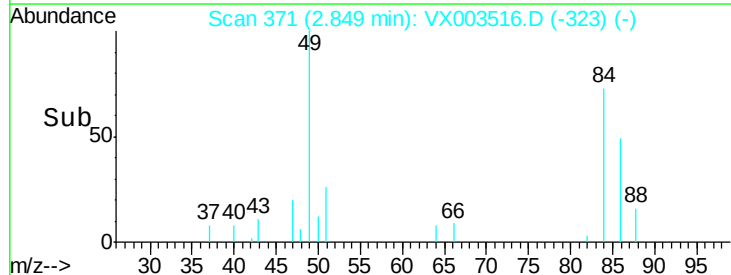
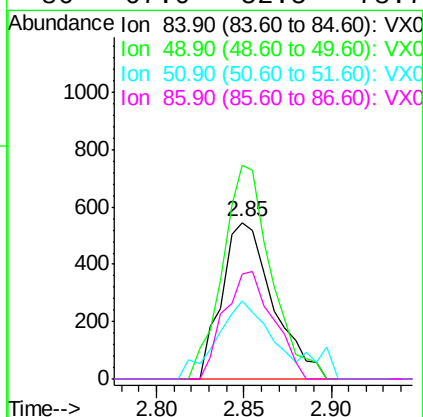
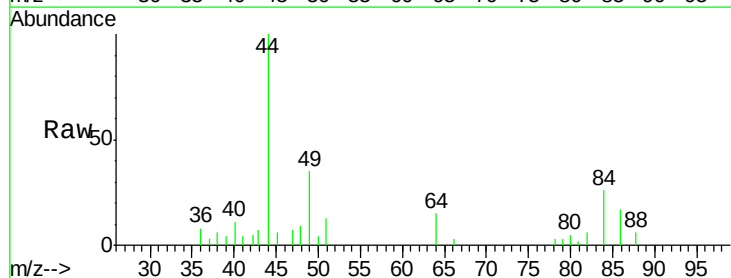
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-071118DL

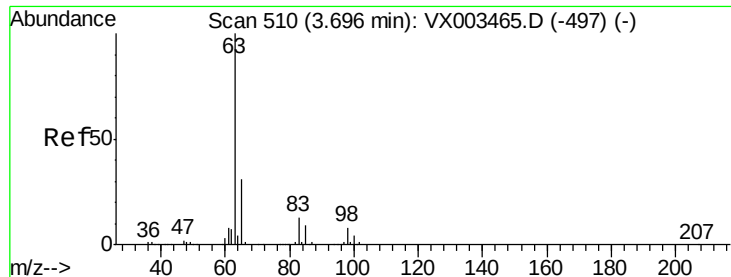
Tot Ion: 43 Resp: 1986
Ion Ratio Lower Upper
43 100
74 21.2 16.7 25.1



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 371
Delta R.T. -0.01 min
Lab File: VX003516.D
Acq: 20 Jul 2018 18:18

Tgt Ion: 84 Resp: 1111
Ion Ratio Lower Upper
84 100
49 136.7 107.8 161.6
51 49.7 32.8 49.2#
86 67.0 52.5 78.7

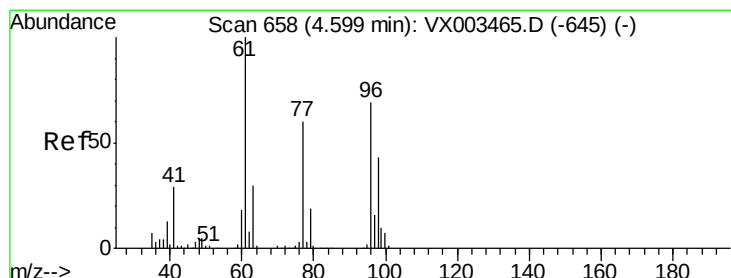
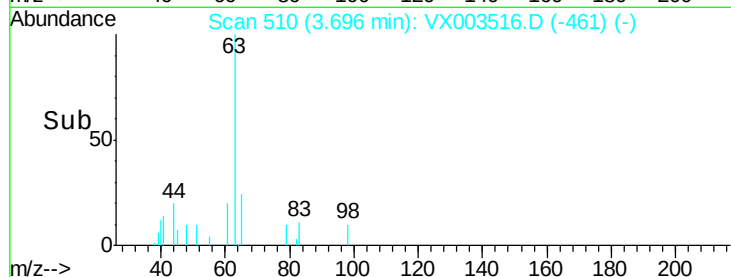
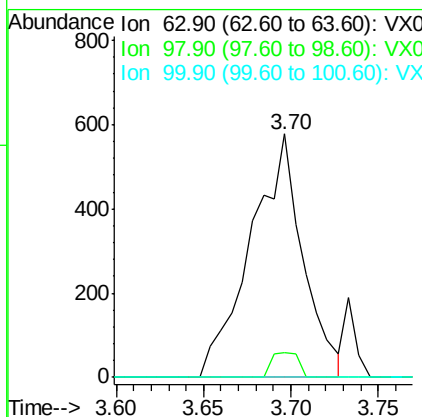
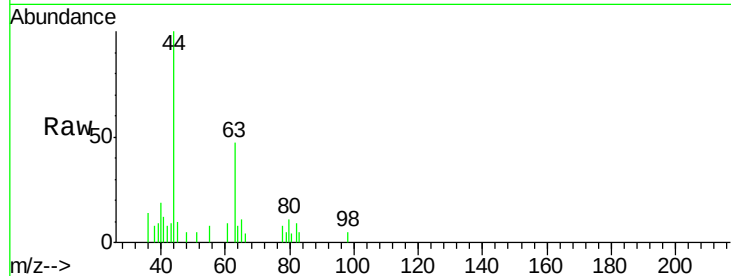




#24
 1,1-Dichloroethane
 Concen: 0.23 ug/l
 RT: 3.70 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VX003516.D
 Acq: 20 Jul 2018 18:18

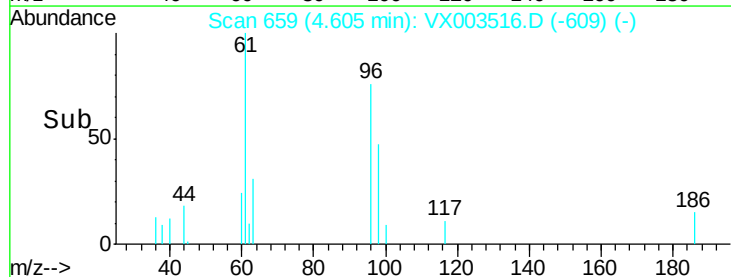
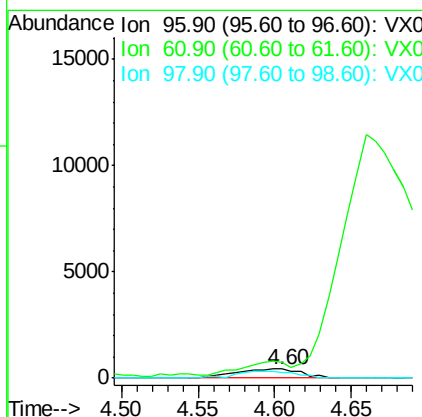
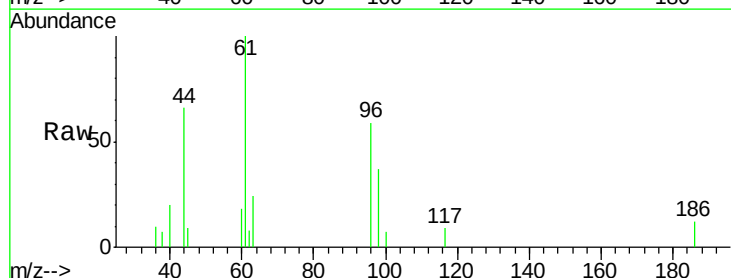
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-071118DL

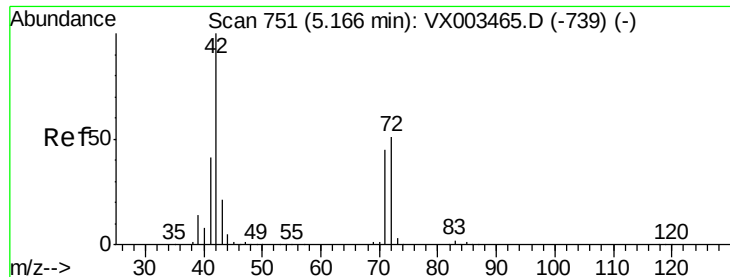
Tot Ion	Ratio	Lower	Upper
63	100		
98	10.0	3.4	10.2
100	0.0	2.0	6.0#



#27
 cis-1,2-Dichloroethene
 Concen: 0.39 ug/l
 RT: 4.60 min Scan# 659
 Delta R.T. 0.01 min
 Lab File: VX003516.D
 Acq: 20 Jul 2018 18:18

Tgt Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	330.2
98	68.4	0.0	130.2





#29

Tetrahydrofuran

Concen: 0.81 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003516.D

Acq: 20 Jul 2018 18:18

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-071118DL

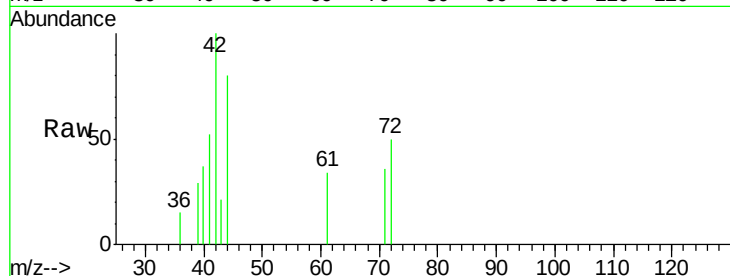
Tot Ion: 42 Resp: 1036

Ion Ratio Lower Upper

42 100

72 39.9 32.0 48.0

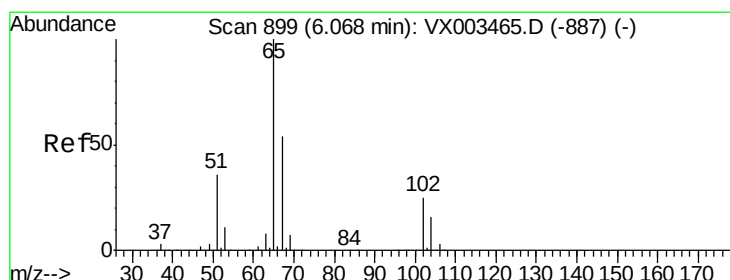
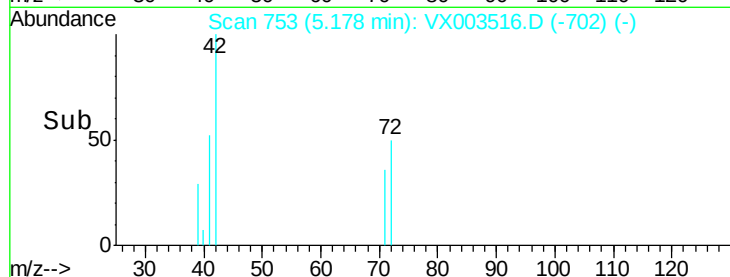
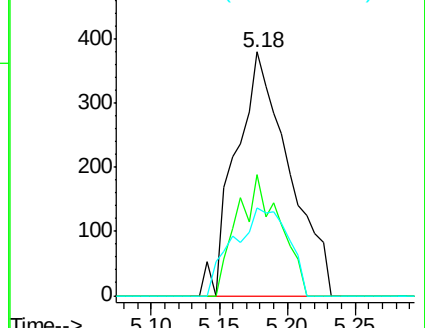
71 37.1 30.1 45.1



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 53.17 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003516.D

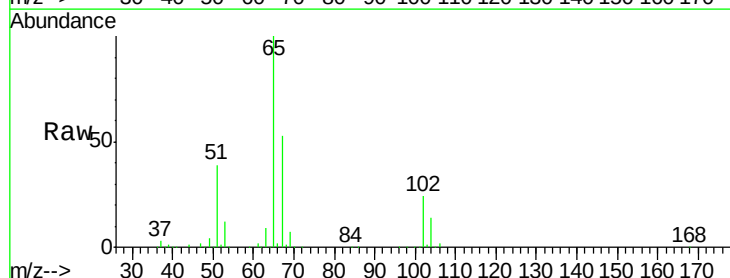
Acq: 20 Jul 2018 18:18

Tgt Ion: 65 Resp: 162227

Ion Ratio Lower Upper

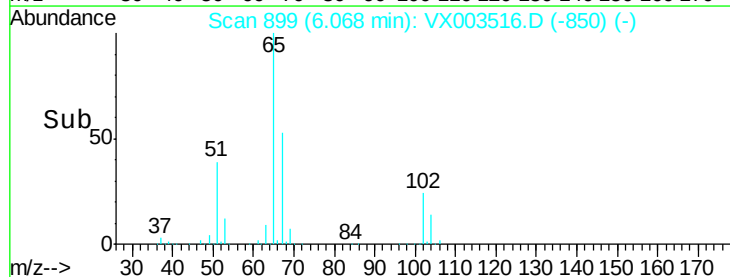
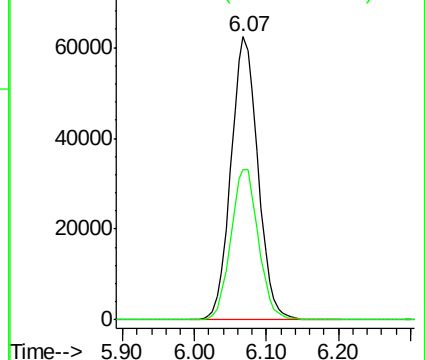
65 100

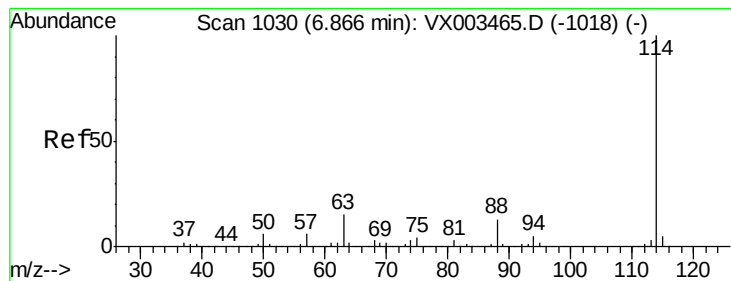
67 54.6 0.0 102.6



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: 6.86 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VX003516.D

Acq: 20 Jul 2018 18:18

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-071118DL

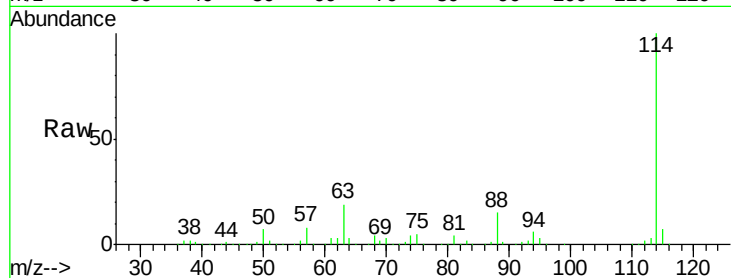
Tot Ion:114 Resp: 383328

Ion Ratio Lower Upper

114 100

63 19.3 0.0 41.4

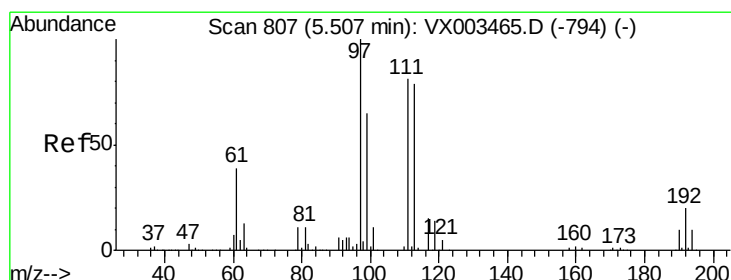
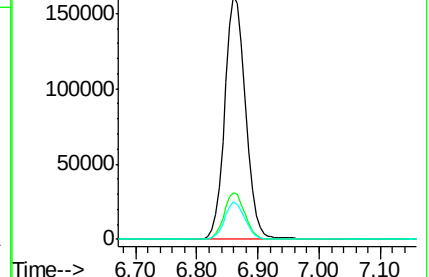
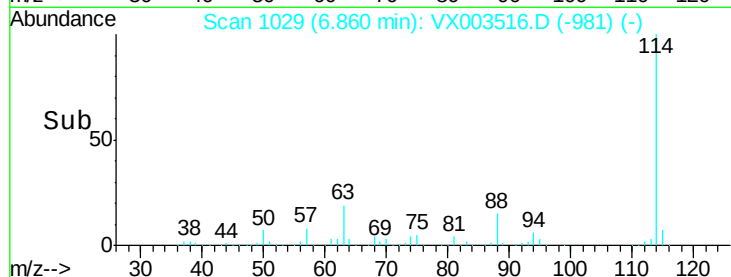
88 15.4 0.0 30.0



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: 48.96 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003516.D

Acq: 20 Jul 2018 18:18

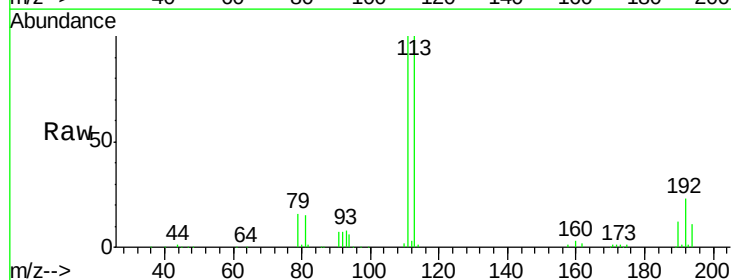
Tgt Ion:113 Resp: 142936

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

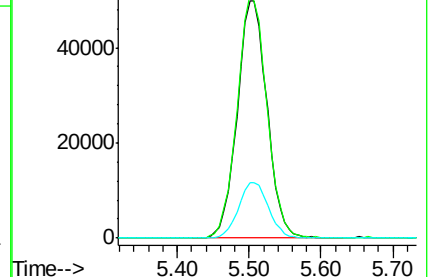
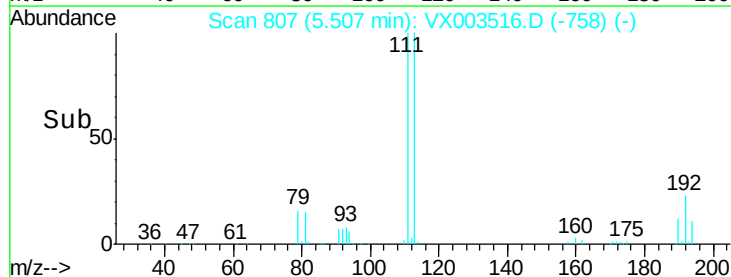
192 23.7 19.1 28.7

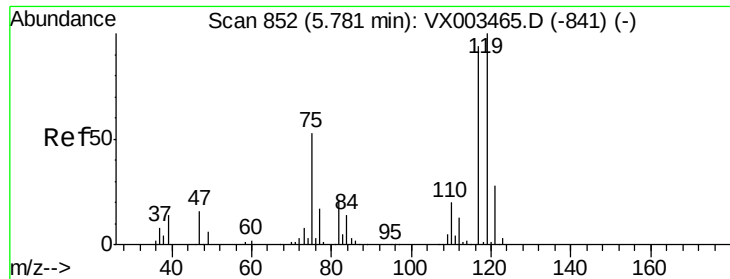


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.61 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003516.D

Acq: 20 Jul 2018 18:18

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-071118DL

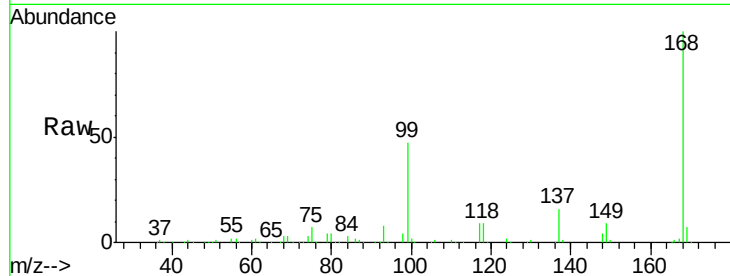
Tot Ion:117 Resp: 22769

Ion Ratio Lower Upper

117 100

119 4.8 77.4 116.0#

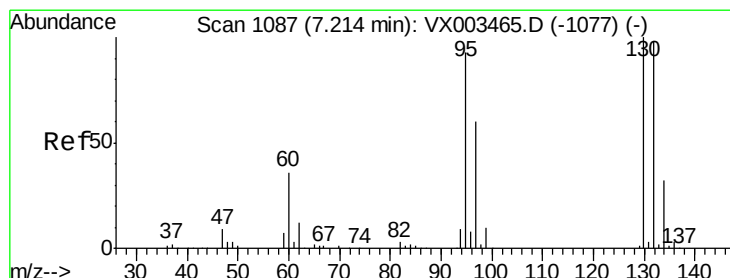
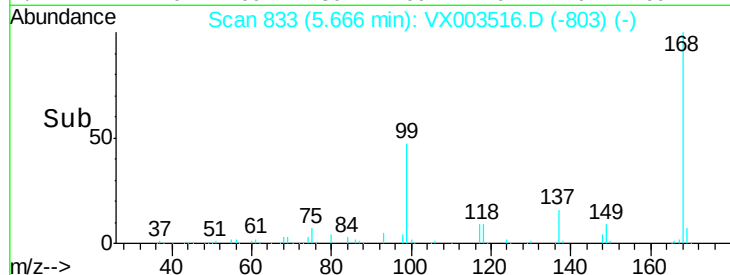
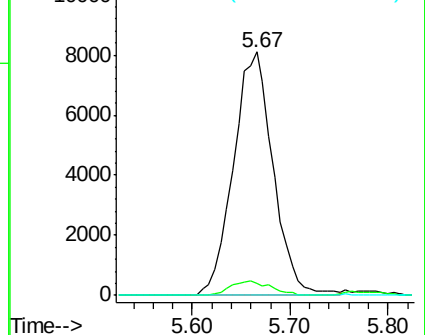
121 0.0 24.4 36.6#



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: 61.70 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003516.D

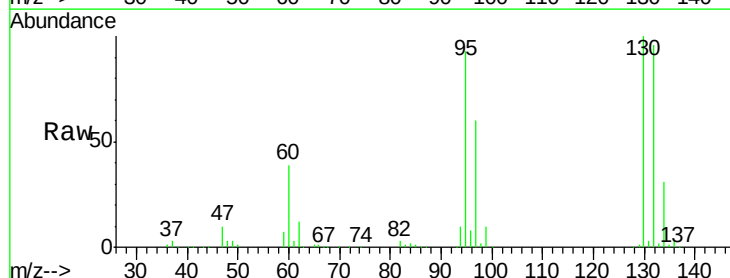
Acq: 20 Jul 2018 18:18

Tgt Ion:130 Resp: 229918

Ion Ratio Lower Upper

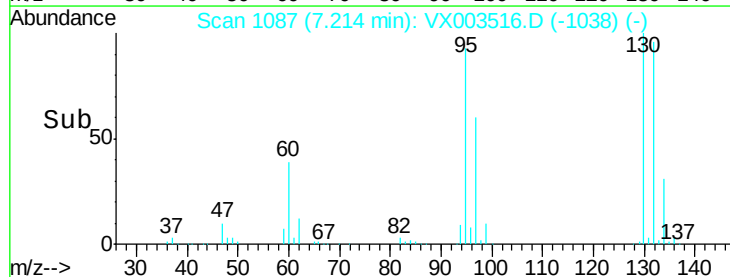
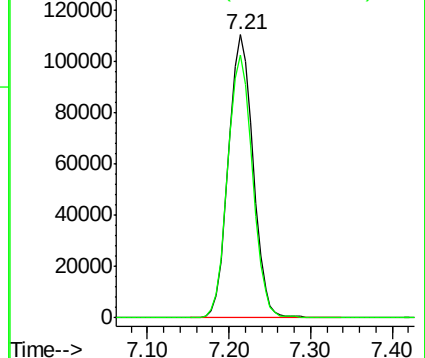
130 100

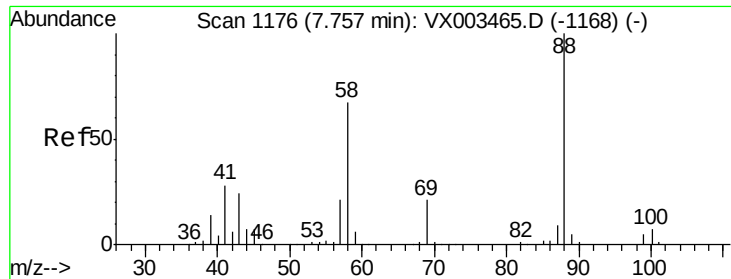
95 92.8 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

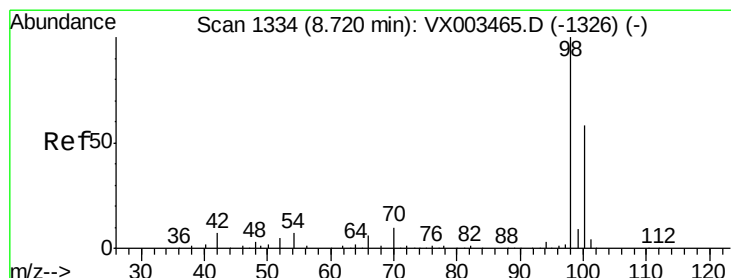
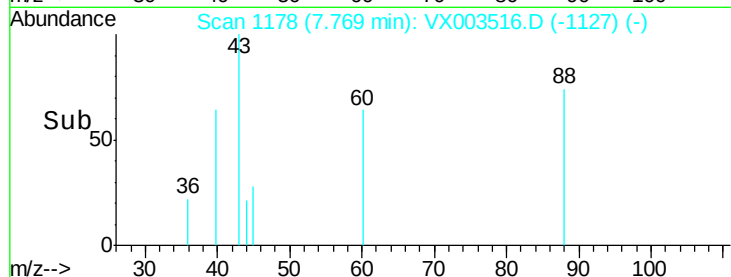
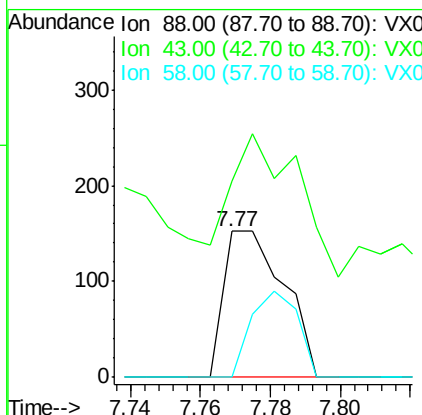
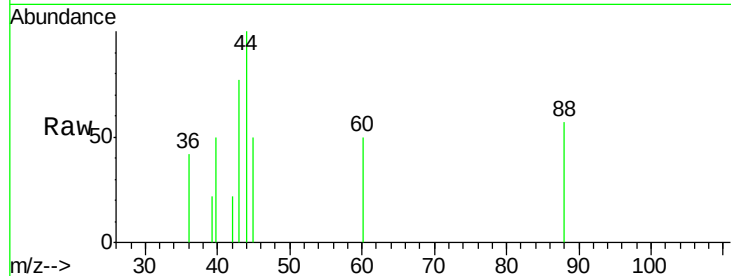




#49
 1,4-Dioxane
 Concen: 2.54 ug/l
 RT: 7.77 min Scan# 1178
 Delta R.T. 0.01 min
 Lab File: VX003516.D
 Acq: 20 Jul 2018 18:18

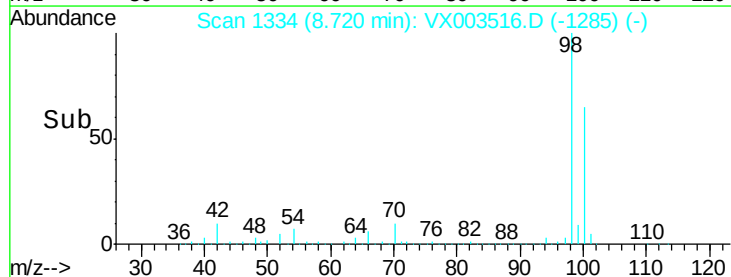
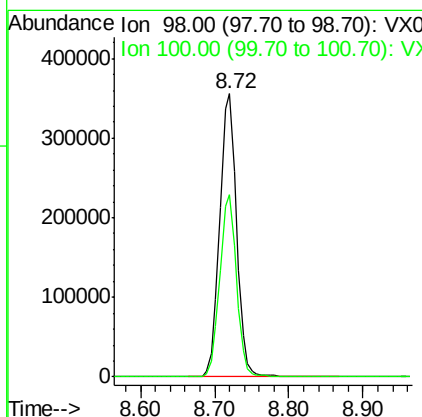
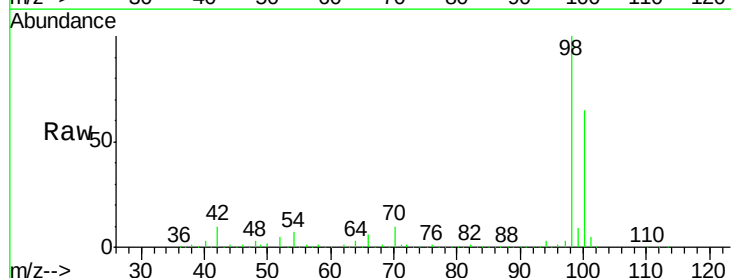
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-071118DL

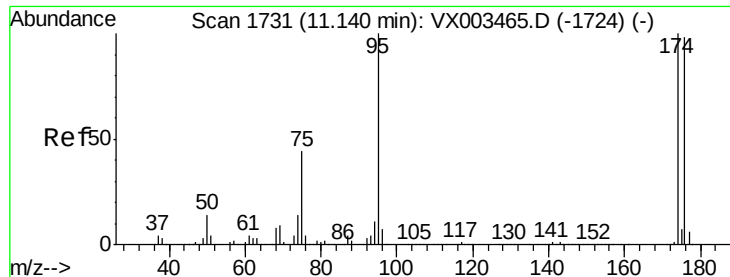
Tot Ion: 88 Resp: 181
 Ion Ratio Lower Upper
 88 100
 43 108.3 29.8 44.6#
 58 45.9 57.1 85.7#



#50
 Toluene-d8
 Concen: 51.10 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX003516.D
 Acq: 20 Jul 2018 18:18

Tgt Ion: 98 Resp: 560745
 Ion Ratio Lower Upper
 98 100
 100 63.8 50.9 76.3

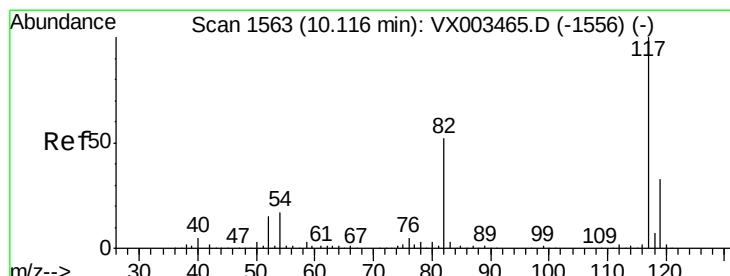
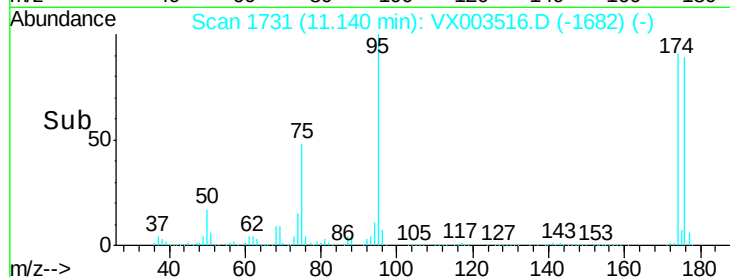
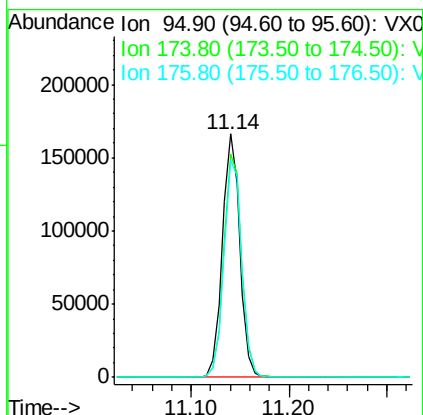
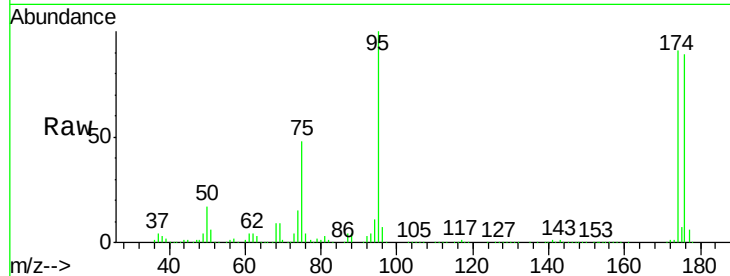




#62
4-Bromofluorobenzene
Concen: 51.02 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003516.D
Acq: 20 Jul 2018 18:18

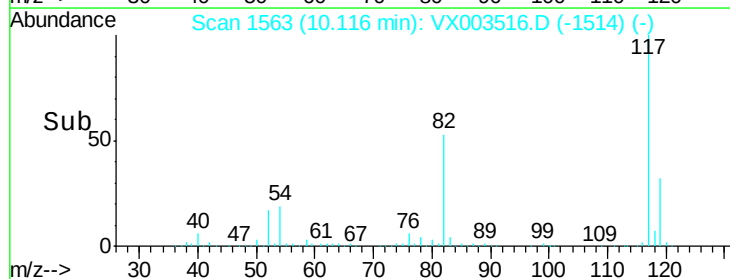
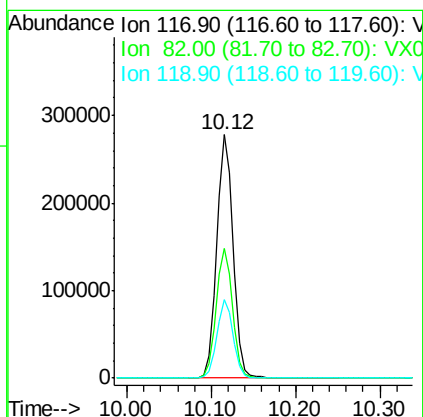
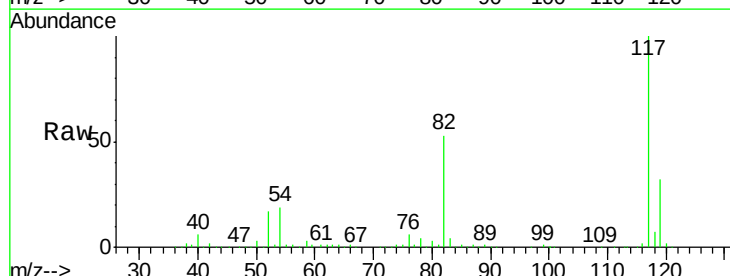
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-071118DL

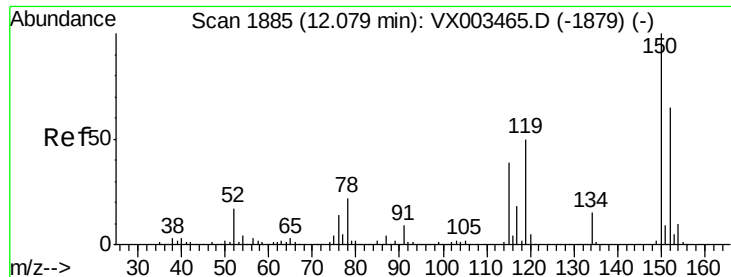
Tot Ion: 95 Resp: 204330
Ion Ratio Lower Upper
95 100
174 94.5 0.0 187.4
176 91.7 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003516.D
Acq: 20 Jul 2018 18:18

Tgt Ion: 117 Resp: 375254
Ion Ratio Lower Upper
117 100
82 53.4 45.0 67.4
119 32.2 25.8 38.6

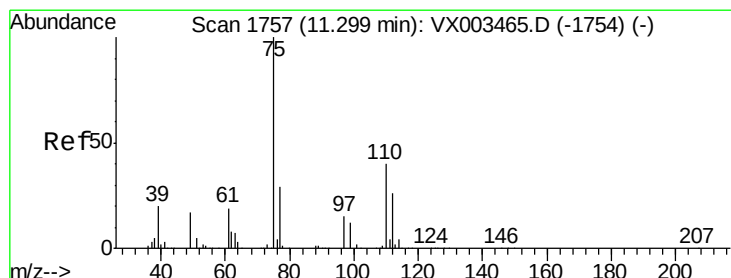
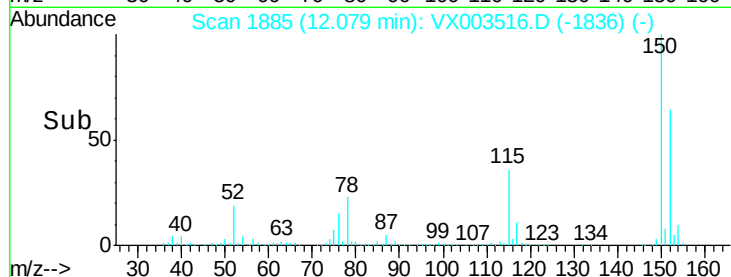
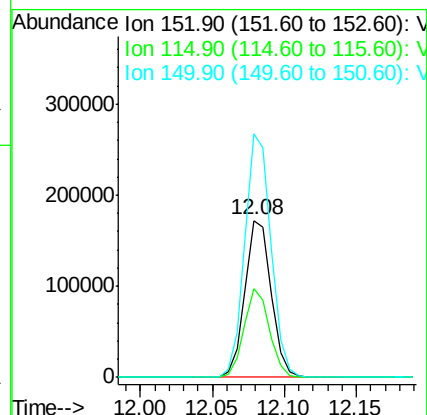
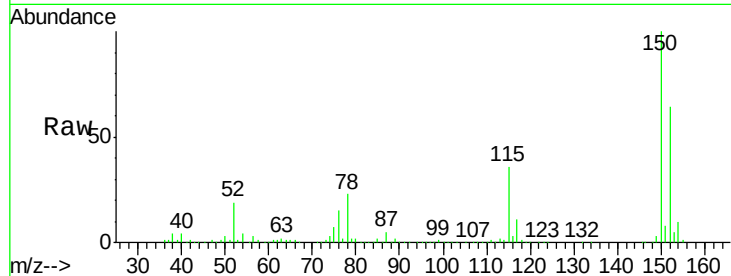




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.08 min Scan# 1885
 Delta R.T. 0.00 min
 Lab File: VX003516.D
 Acq: 20 Jul 2018 18:18

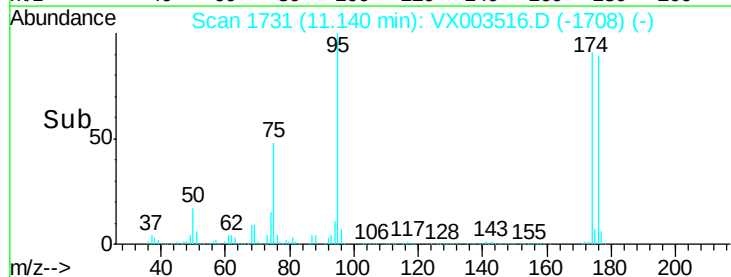
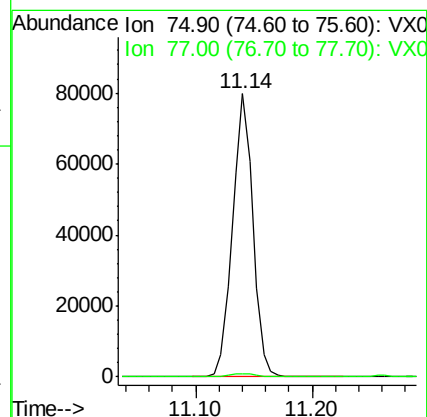
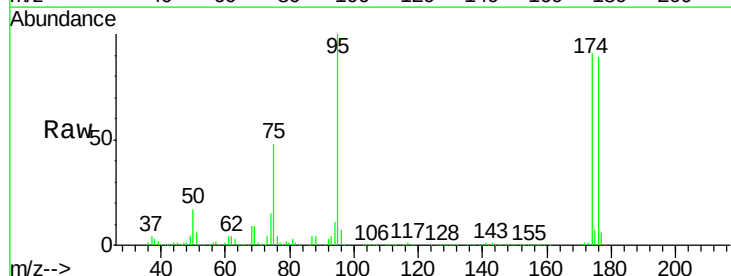
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-071118DL

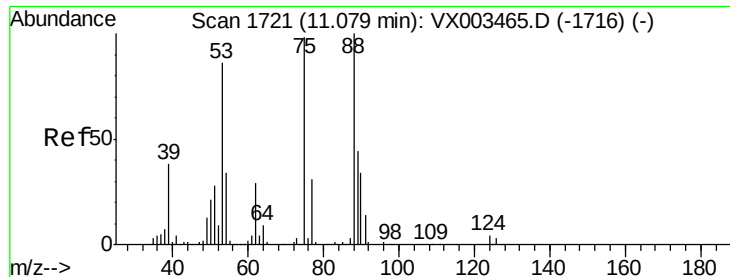
Tot Ion:152 Resp: 216946
 Ion Ratio Lower Upper
 152 100
 115 54.8 40.1 120.2
 150 154.7 0.0 347.2



#76
 1,2,3-Trichloropropane
 Concen: 24.89 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003516.D
 Acq: 20 Jul 2018 18:18

Tgt Ion: 75 Resp: 96987
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 69.70 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003516.D

Acq: 20 Jul 2018 18:18

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-071118DL

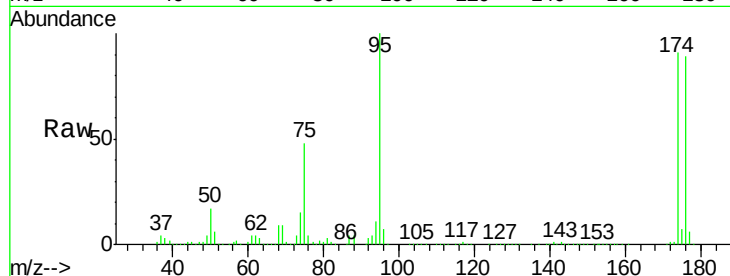
Tot Ion: 75 Resp: 96987

Ion Ratio Lower Upper

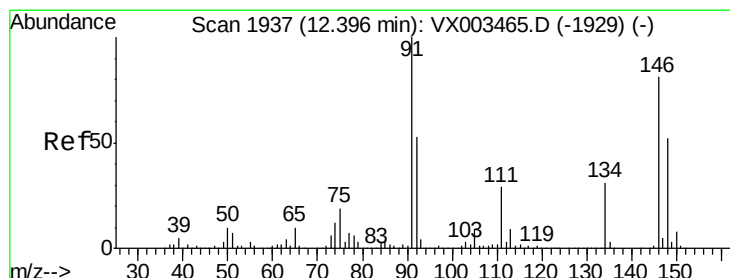
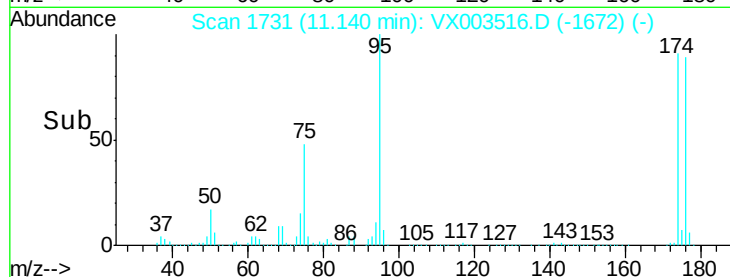
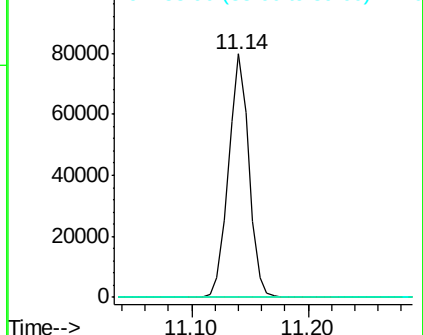
75 100

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



#91

1,2-Dichlorobenzene

Concen: 0.51 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX003516.D

Acq: 20 Jul 2018 18:18

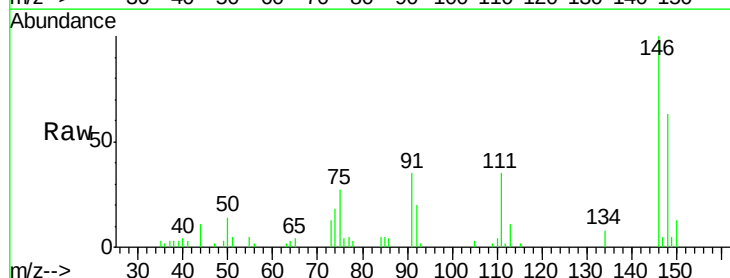
Tgt Ion: 146 Resp: 3952

Ion Ratio Lower Upper

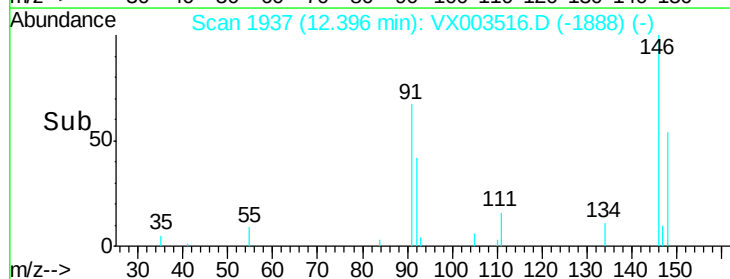
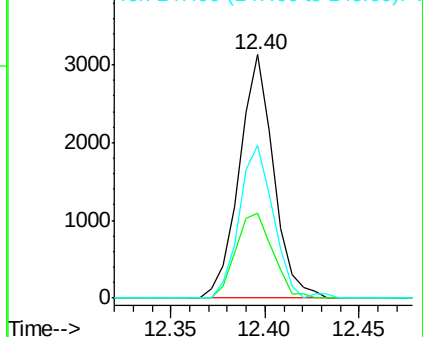
146 100

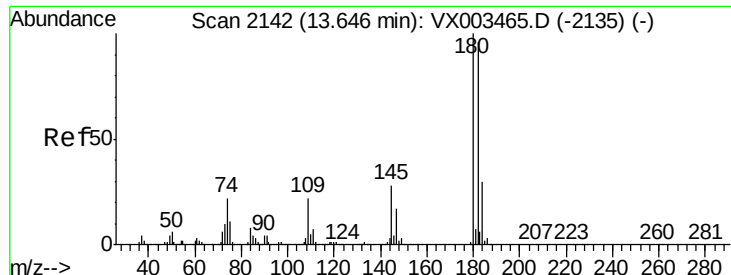
111 37.5 19.4 58.1

148 62.4 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#93

1,2,4-Trichlorobenzene

Concen: 0.20 ug/l

RT: 13.65 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VX003516.D

Acq: 20 Jul 2018 18:18

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-071118DL

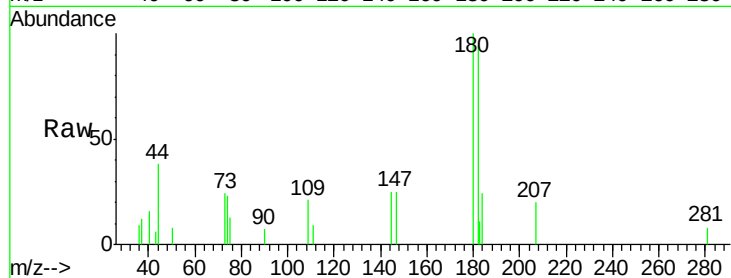
Tot Ion:180 Resp: 1166

Ion Ratio Lower Upper

180 100

182 96.2 47.7 143.1

145 25.8 14.1 42.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

