

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072018\
 Data File : VX003530.D
 Acq On : 21 Jul 2018 01:23
 Operator : JC/SP
 Sample : J4014-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D1-071318

Quant Time: Jul 21 03:45:12 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	312883	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	431593	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	398107	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	217117	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	176314	47.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.22%	
35) Dibromofluoromethane	5.50	113	177791	54.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.16%	
50) Toluene-d8	8.72	98	604868	48.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.90%	
62) 4-Bromofluorobenzene	11.14	95	204964	45.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	610	Below Cal		94
3) Chloromethane	1.32	50	1818	Below Cal	#	87
5) Bromomethane	1.65	94	1220	Below Cal		96
9) 1,1,2-Trichlorotrifluoroet	2.39	101	5002	1.44	ug/l	97
10) Methyl Iodide	2.53	142	908	0.22	ug/l	# 82
11) Tert butyl alcohol	3.07	59	191	0.26	ug/l	# 73
12) 1,1-Dichloroethene	2.37	96	1059	0.33	ug/l	94
14) Allyl chloride	2.62	41	4193	0.74	ug/l	# 70
16) Acetone	2.45	43	7196	5.14	ug/l	# 89
18) Methyl Acetate	2.78	43	1347	0.31	ug/l	# 91
20) Methylene Chloride	2.85	84	1258	Below Cal	#	81
27) cis-1,2-Dichloroethene	4.60	96	2746	0.69	ug/l	# 1
31) Cyclohexane	5.67	56	4694	0.84	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	18345	3.94	ug/l	# 50
44) Trichloroethene	7.21	130	194756	46.42	ug/l	100
49) 1,4-Dioxane	7.77	88	966	12.05	ug/l	# 90
60) Dibromochloromethane	9.34	129	2370	0.68	ug/l	# 11
64) Tetrachloroethene	9.34	164	2628	0.54	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	98068	25.14	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	98068	70.40	ug/l	# 7

(#) = 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: VX003530.D

Acq: 21 Jul 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

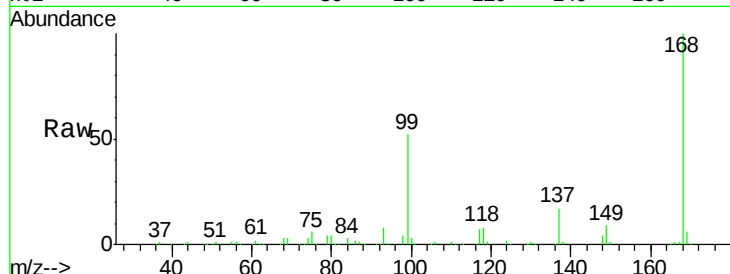
RE104D1-071318

Tot Ion:168 Resp: 312883

Ion Ratio Lower Upper

168 100

99 52.1 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

120000

100000

80000

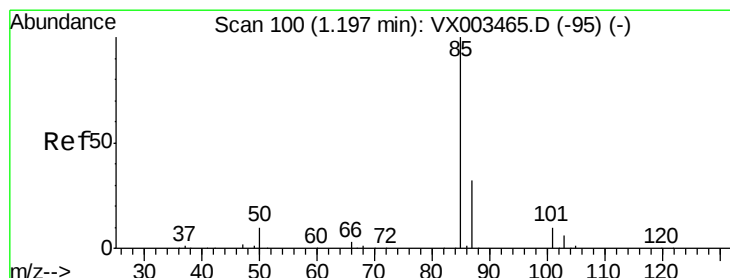
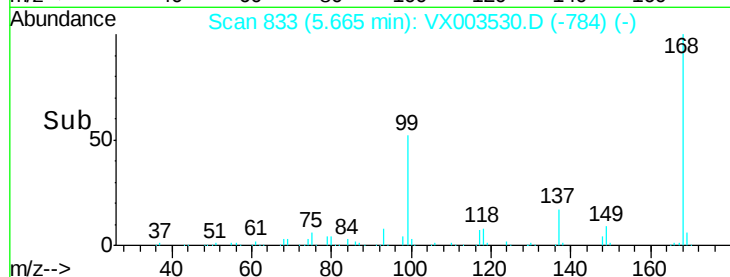
60000

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: VX003530.D

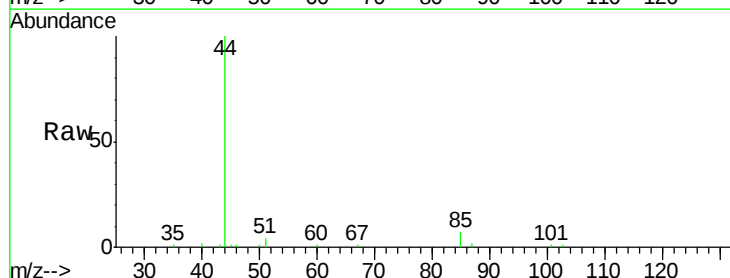
Acq: 21 Jul 2018 01:23

Tgt Ion: 85 Resp: 610

Ion Ratio Lower Upper

85 100

87 28.6 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

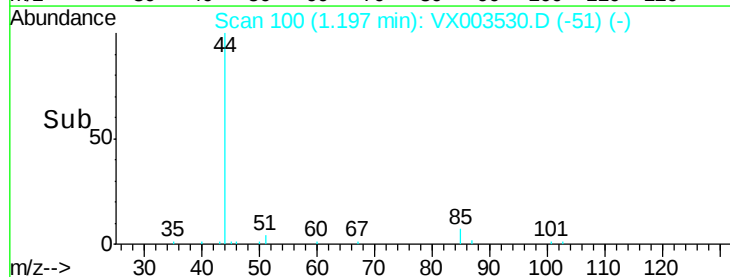
600

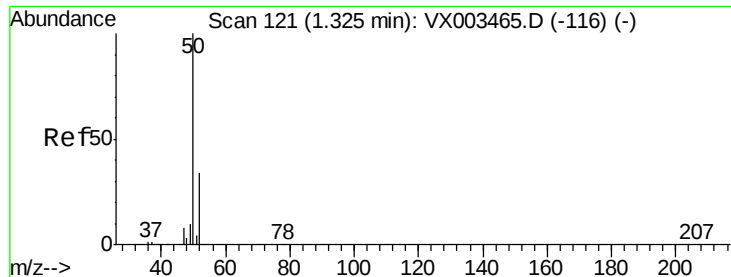
400

200

0

Time--> 1.16 1.18 1.20 1.22 1.24





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

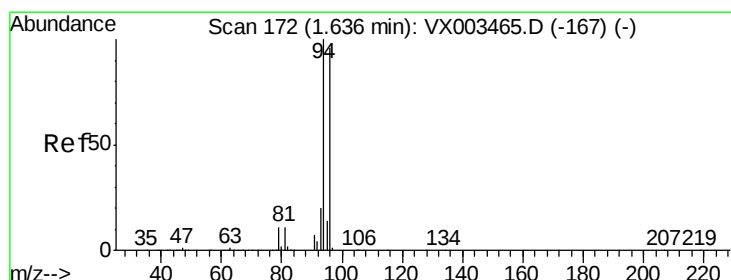
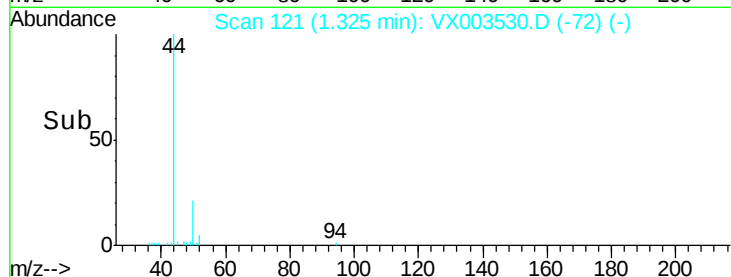
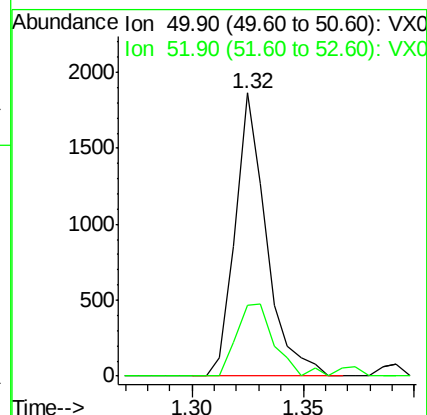
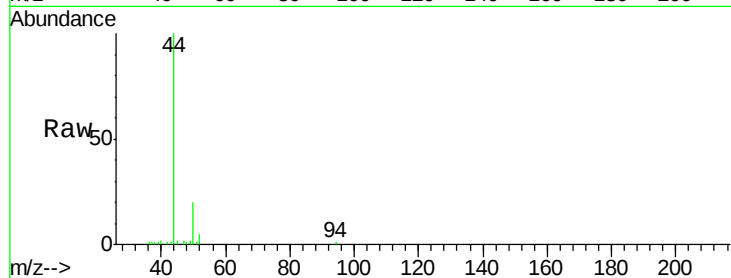
RE104D1-071318

Tot Ion: 50 Resp: 1818

Ion Ratio Lower Upper

50 100

52 24.9 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003530.D

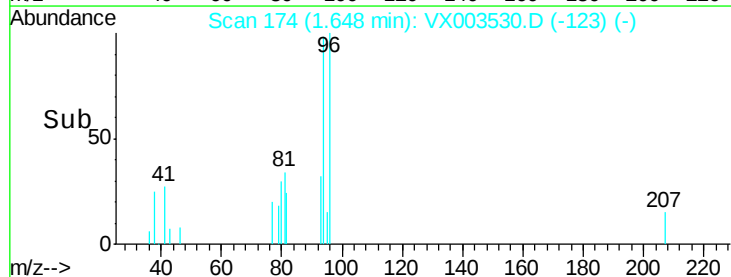
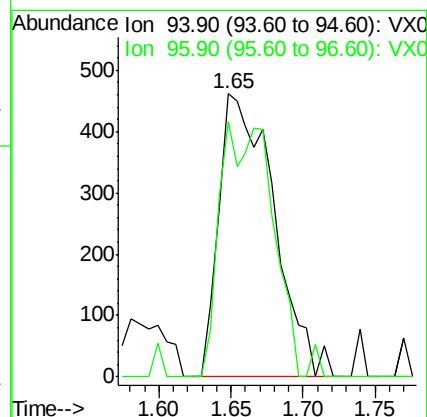
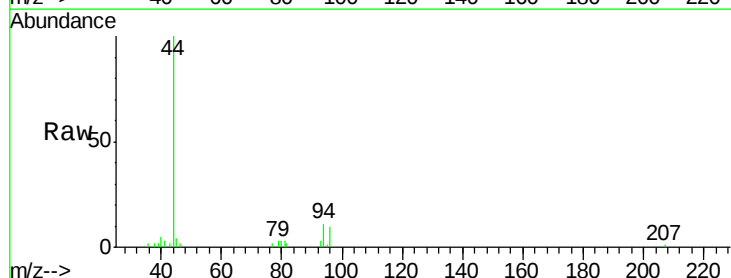
Acq: 21 Jul 2018 01:23

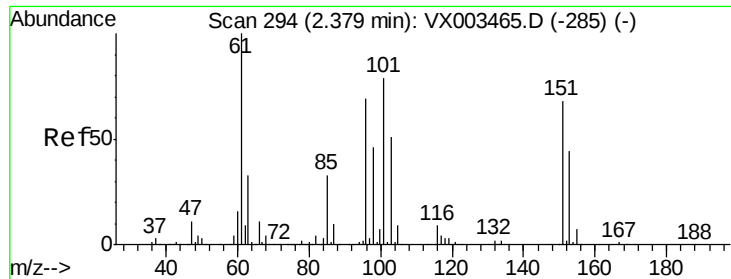
Tgt Ion: 94 Resp: 1220

Ion Ratio Lower Upper

94 100

96 90.0 74.9 112.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.44 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-071318

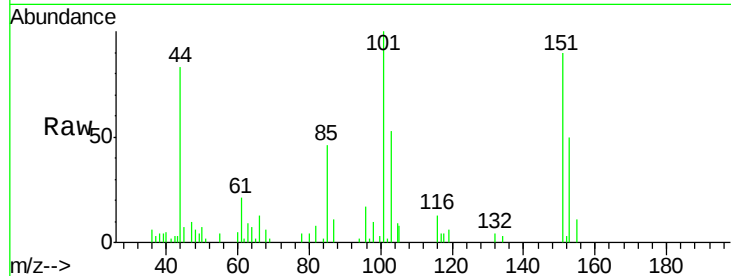
Tot Ion:101 Resp: 5002

Ion Ratio Lower Upper

101 100

85 43.5 36.0 54.0

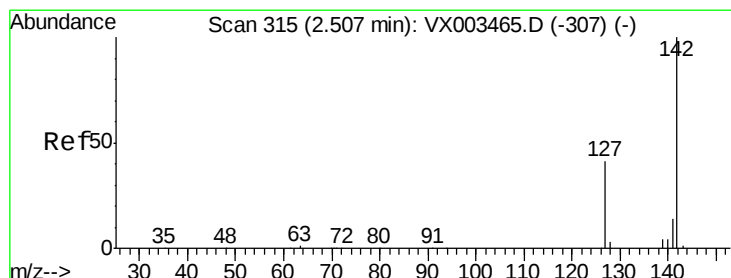
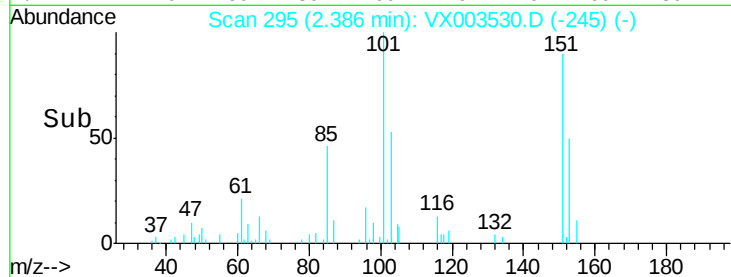
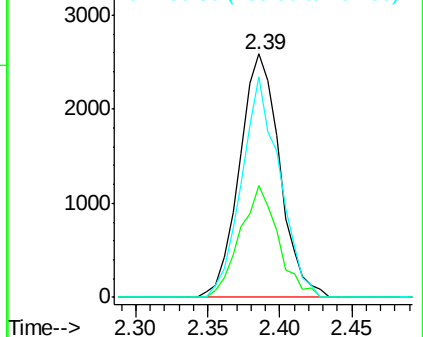
151 85.2 70.9 106.3



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: 0.22 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.02 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

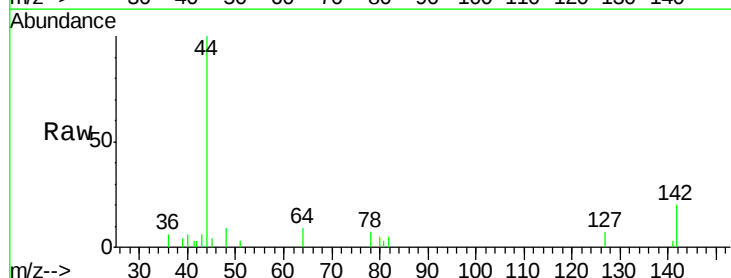
Tgt Ion:142 Resp: 908

Ion Ratio Lower Upper

142 100

127 33.8 36.6 55.0#

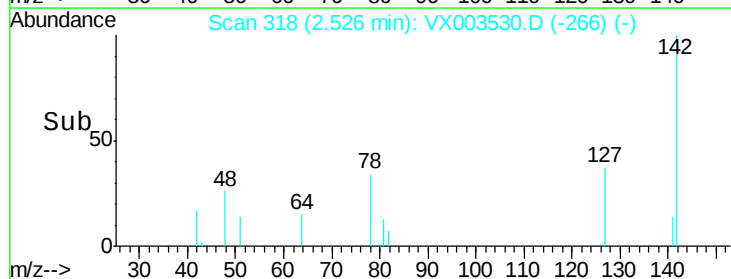
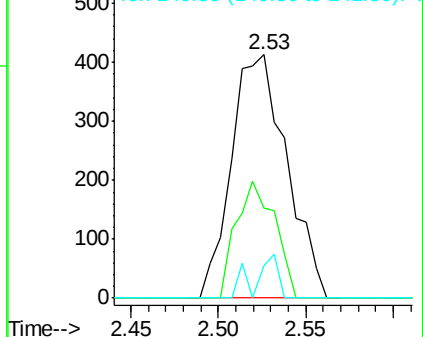
141 7.7 11.3 16.9#

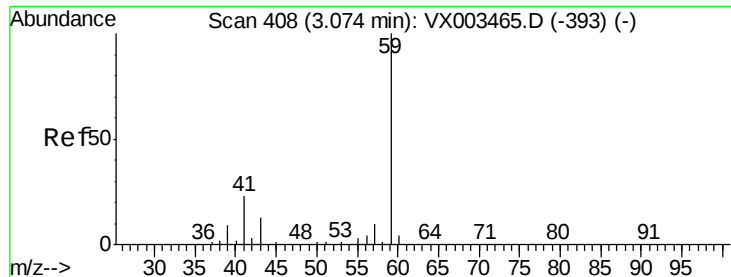


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



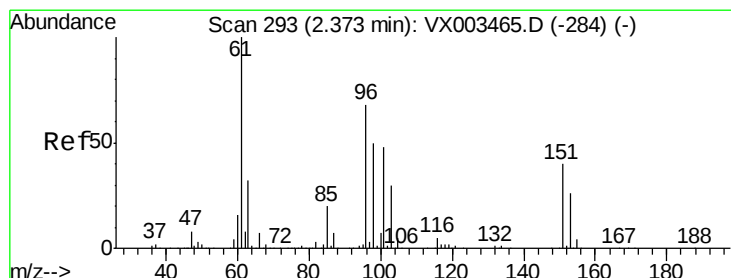
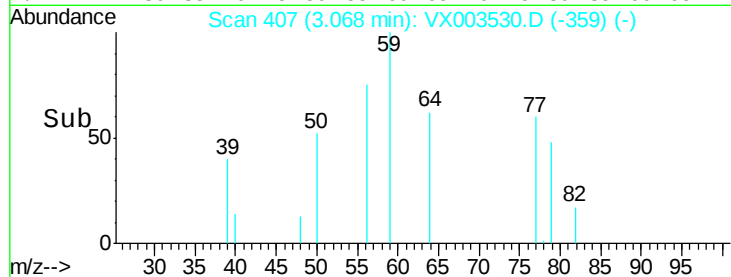
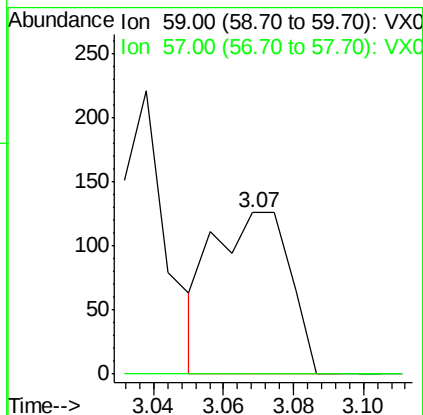
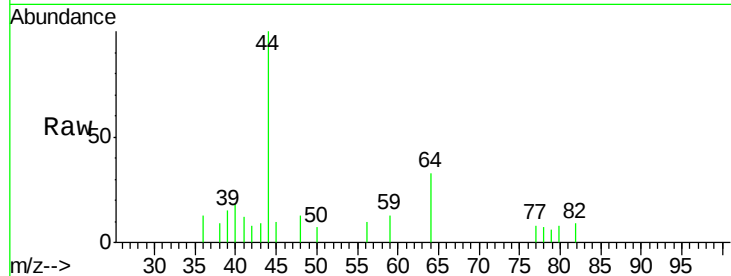


#11

Tert butvl alcohol
 Concen: 0.26 ug/l
 RT: 3.07 min Scan# 407
 Delta R.T. -0.01 min
 Lab File: VX003530.D
 Acq: 21 Jul 2018 01:23

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D1-071318

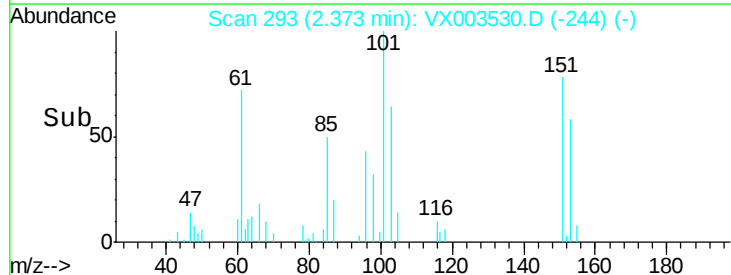
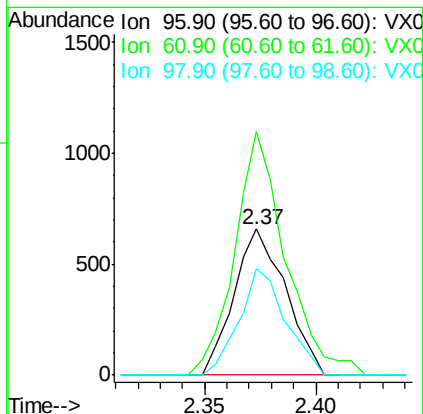
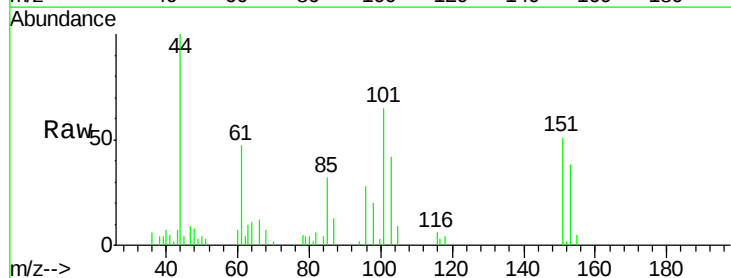
Tot Ion: 59 Resp: 191
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

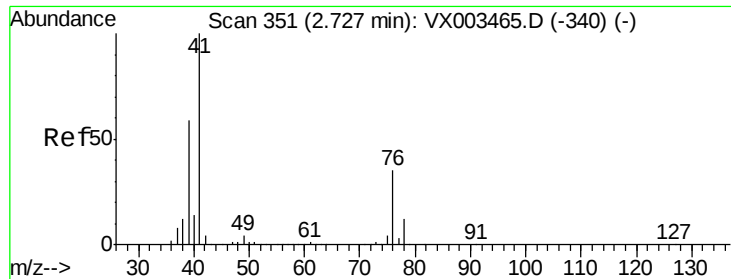


#12

1,1-Dichloroethene
 Concen: 0.33 ug/l
 RT: 2.37 min Scan# 293
 Delta R.T. -0.00 min
 Lab File: VX003530.D
 Acq: 21 Jul 2018 01:23

Tgt Ion: 96 Resp: 1059
 Ion Ratio Lower Upper
 96 100
 61 166.9 137.9 206.9
 98 73.3 51.6 77.4

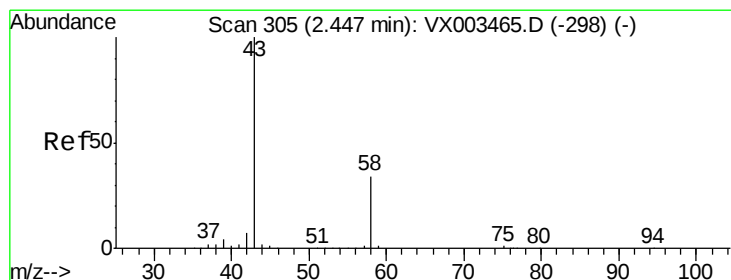
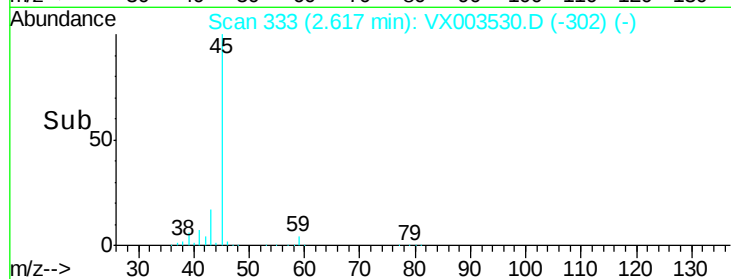
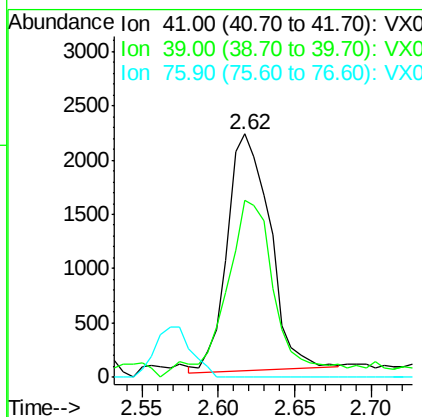
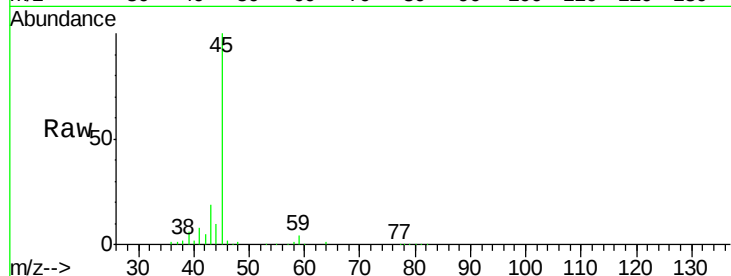




#14
 Allvl chloride
 Concen: 0.74 ug/l
 RT: 2.62 min Scan# 333
 Delta R.T. -0.11 min
 Lab File: VX003530.D
 Acq: 21 Jul 2018 01:23

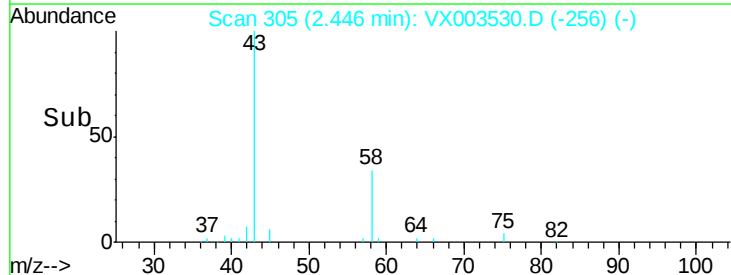
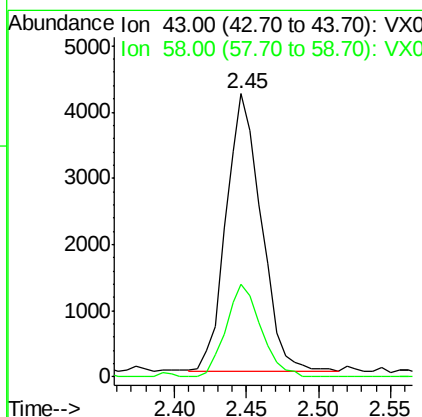
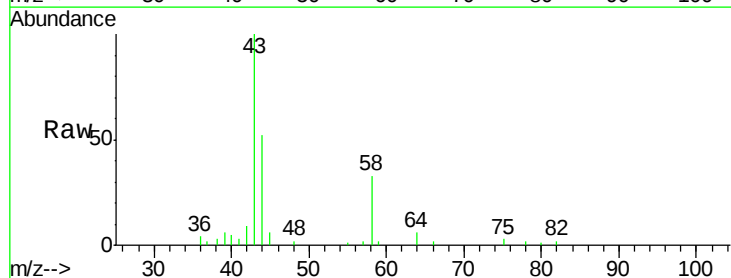
Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D1-071318

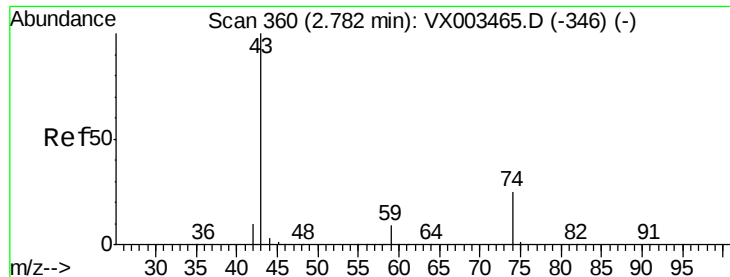
Tot Ion: 41 Resp: 4193
 Ion Ratio Lower Upper
 41 100
 39 87.2 56.8 85.2#
 76 0.0 23.8 35.8#



#16
 Acetone
 Concen: 5.14 ug/l
 RT: 2.45 min Scan# 305
 Delta R.T. -0.00 min
 Lab File: VX003530.D
 Acq: 21 Jul 2018 01:23

Tgt Ion: 43 Resp: 7196
 Ion Ratio Lower Upper
 43 100
 58 33.5 22.1 33.1#





#18

Methyl Acetate

Concen: 0.31 ug/l

RT: 2.78 min Scan# 359

Delta R.T. -0.01 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

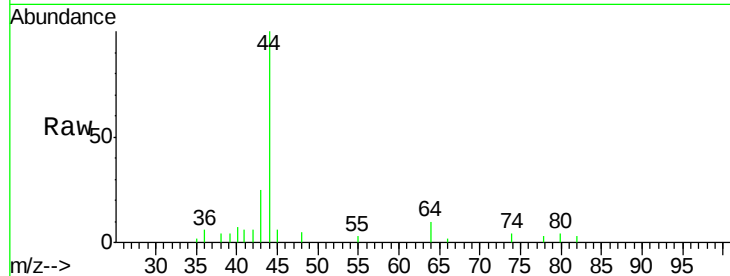
RE104D1-071318

Tot Ion: 43 Resp: 1347

Ion Ratio Lower Upper

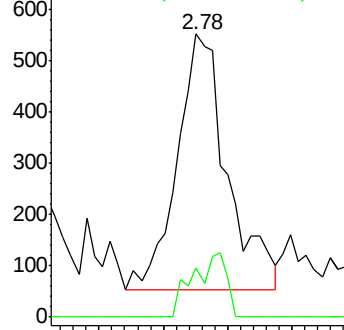
43 100

74 16.6 16.7 25.1#

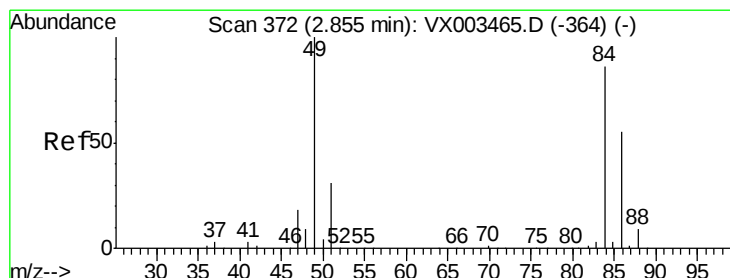
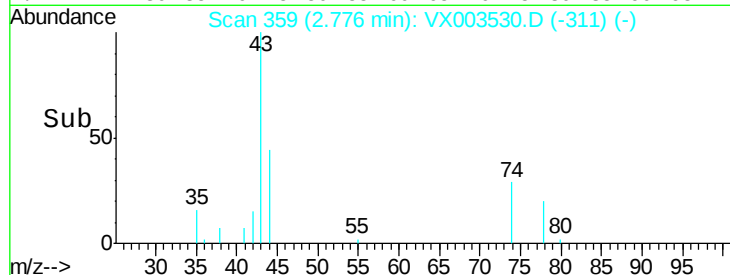


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

Tgt Ion: 84 Resp: 1258

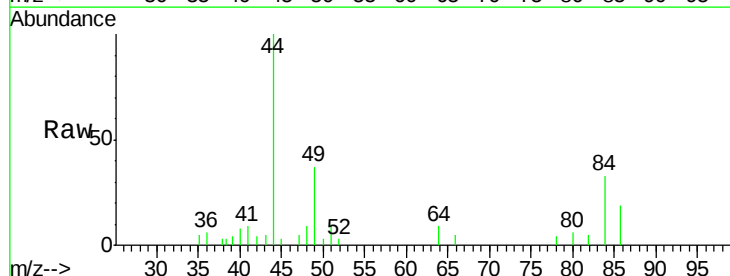
Ion Ratio Lower Upper

84 100

49 112.8 107.8 161.6

51 21.4 32.8 49.2#

86 56.9 52.5 78.7

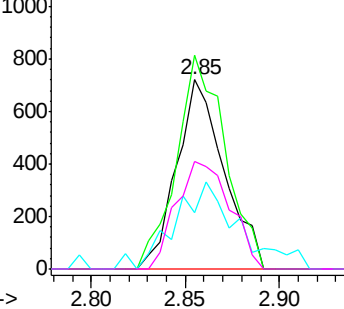


Abundance Ion 83.90 (83.60 to 84.60): VX0

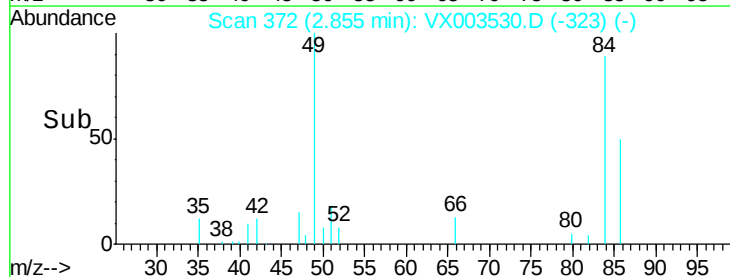
Ion 48.90 (48.60 to 49.60): VX0

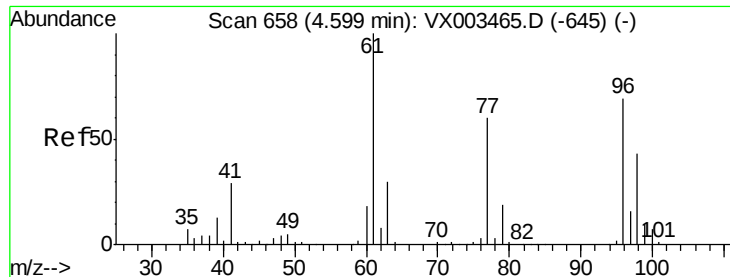
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



Time-->





#27

cis-1,2-Dichloroethene

Concen: 0.69 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-071318

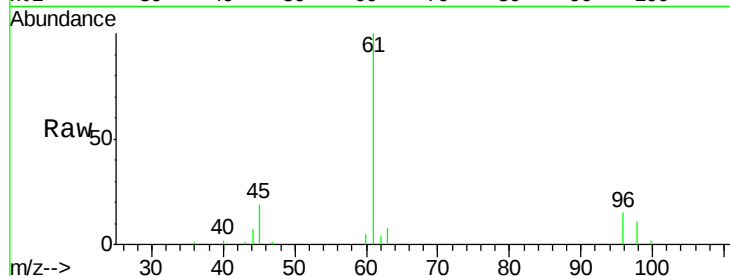
Tot Ion: 96 Resp: 2746

Ion Ratio Lower Upper

96 100

61 815.1 0.0 330.2#

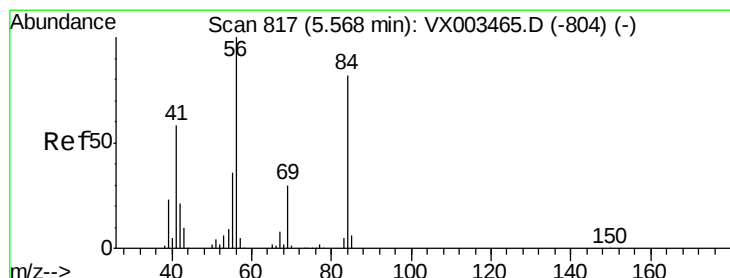
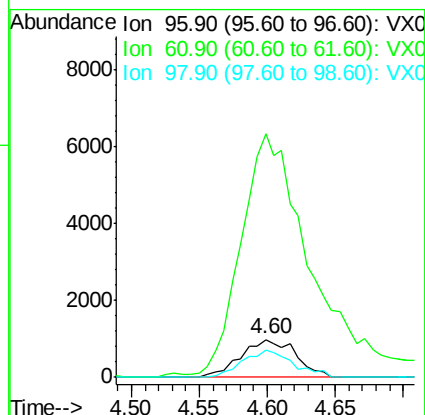
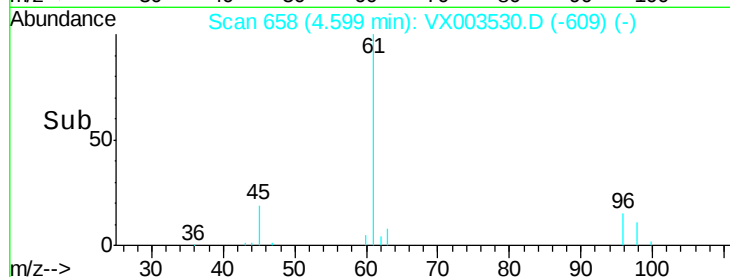
98 66.9 0.0 130.2



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: 0.84 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.10 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

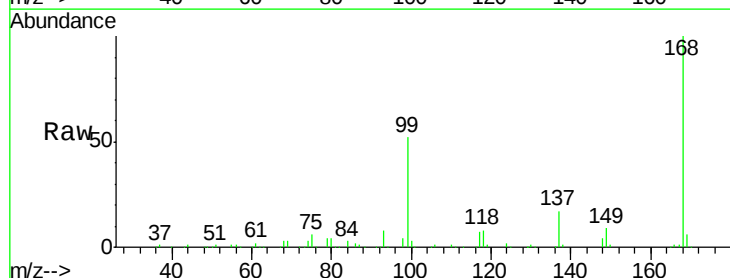
Tgt Ion: 56 Resp: 4694

Ion Ratio Lower Upper

56 100

69 188.4 23.7 35.5#

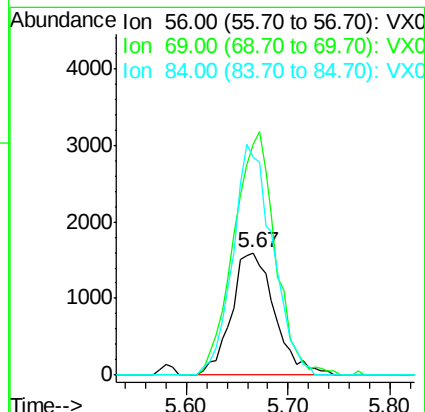
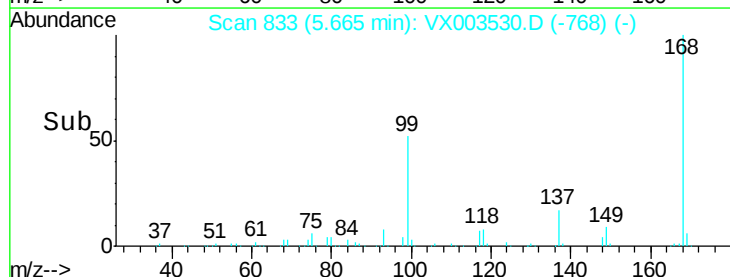
84 178.4 64.1 96.1#

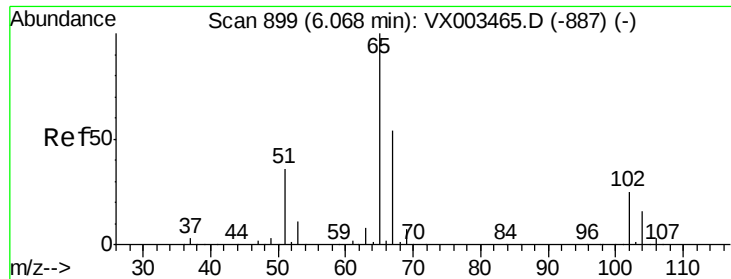


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

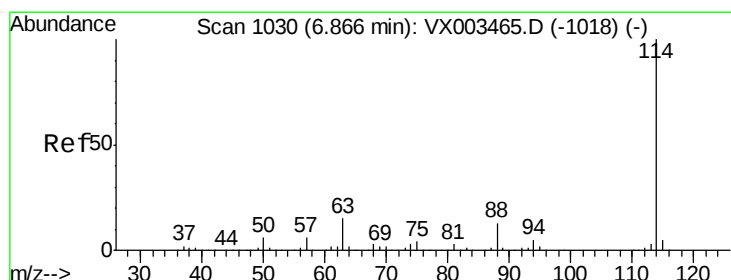
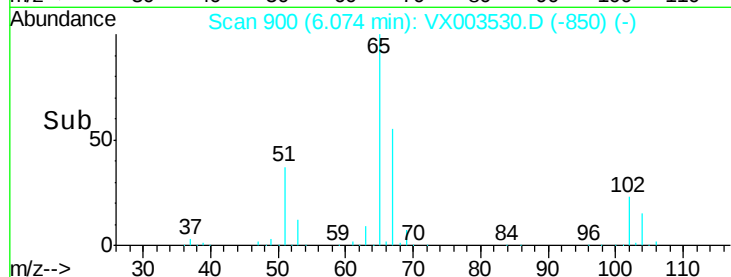
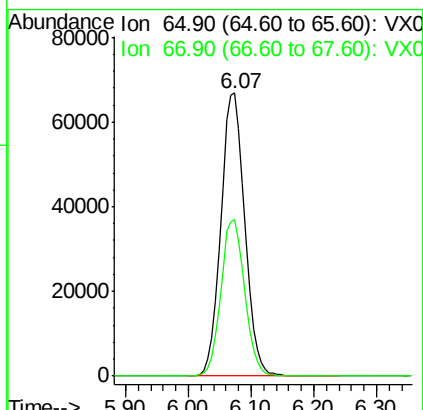
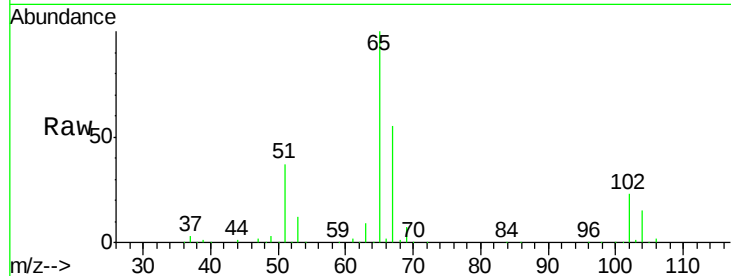




#33
 1,2-Dichloroethane-d4
 Concen: 47.61 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003530.D
 Acq: 21 Jul 2018 01:23

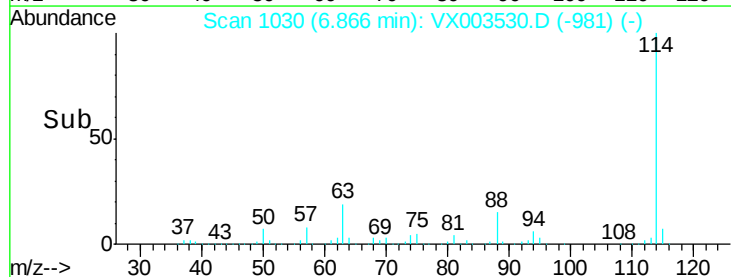
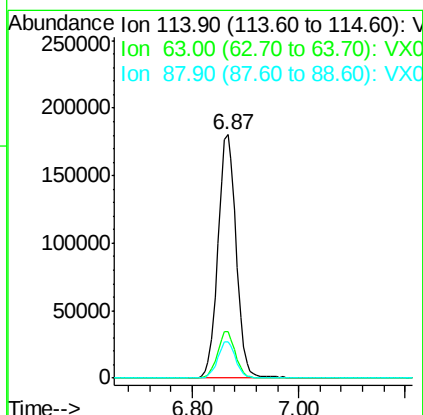
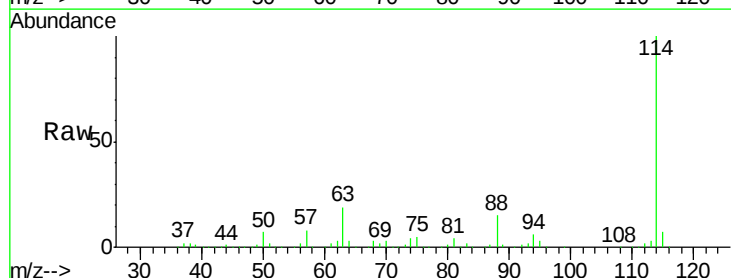
Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D1-071318

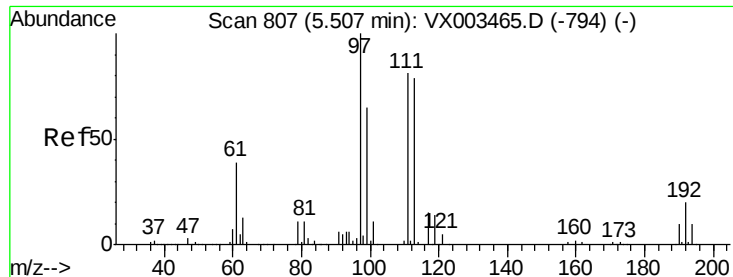
Tot Ion: 65 Resp: 176314
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003530.D
 Acq: 21 Jul 2018 01:23

Tgt Ion: 114 Resp: 431593
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 41.4
 88 15.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 54.08 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-071318

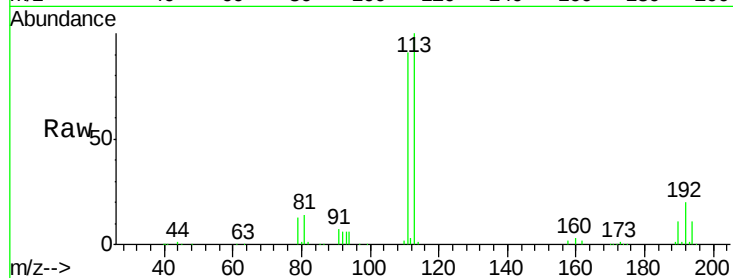
Tot Ion:113 Resp: 177791

Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.0

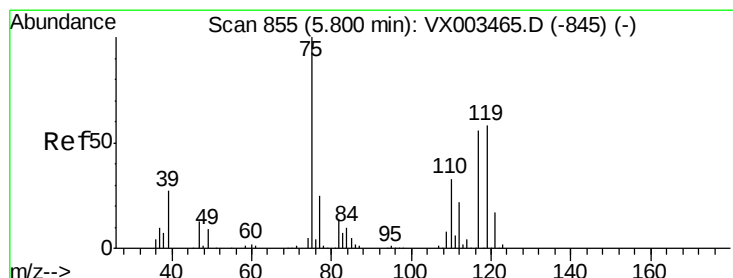
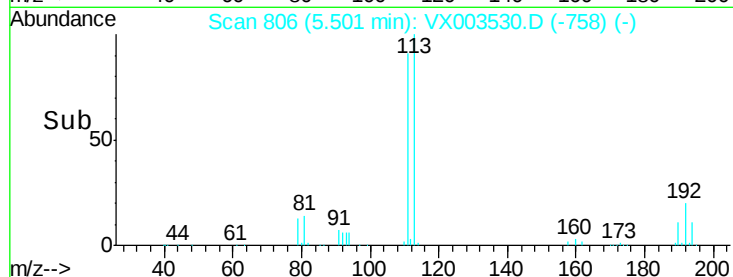
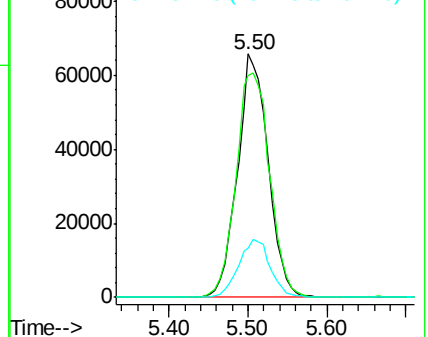
192 24.5 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.94 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

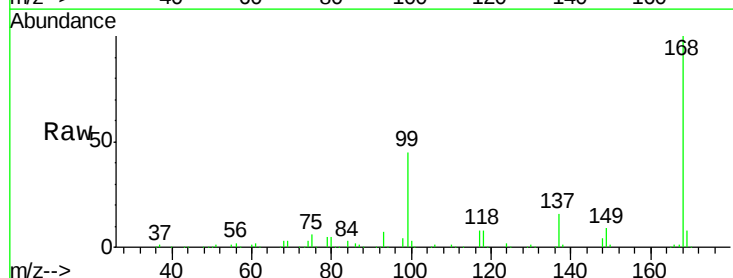
Tgt Ion: 75 Resp: 18345

Ion Ratio Lower Upper

75 100

110 9.2 18.1 54.4#

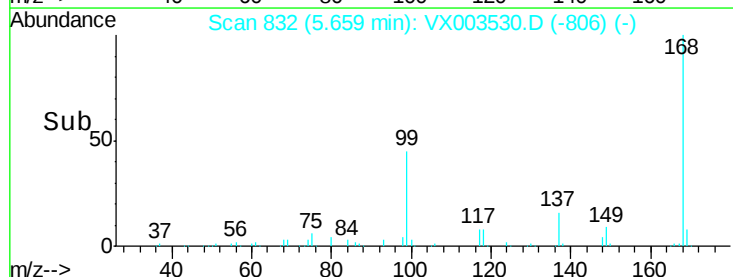
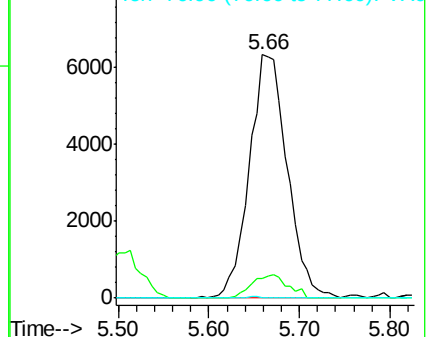
77 0.2 24.3 36.5#

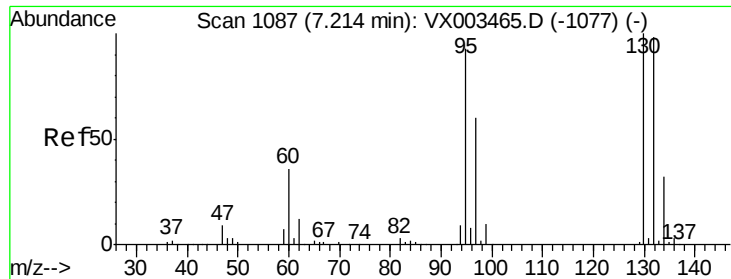


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#44

Trichloroethene

Concen: 46.42 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

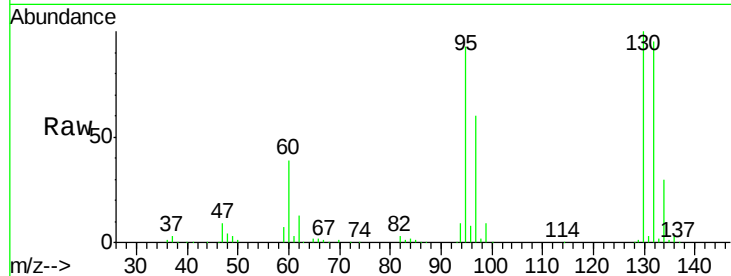
RE104D1-071318

Tot Ion:130 Resp: 194756

Ion Ratio Lower Upper

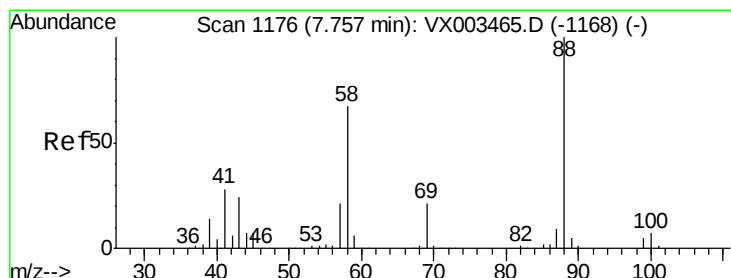
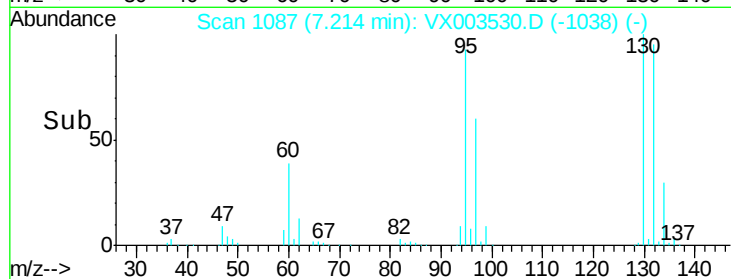
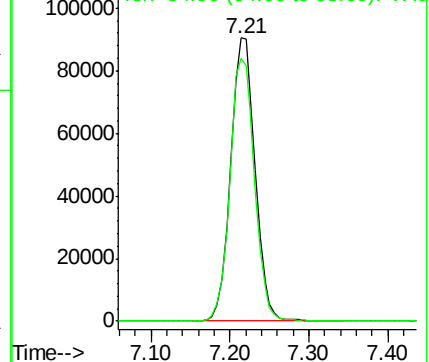
130 100

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: 12.05 ug/l

RT: 7.77 min Scan# 1178

Delta R.T. 0.01 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

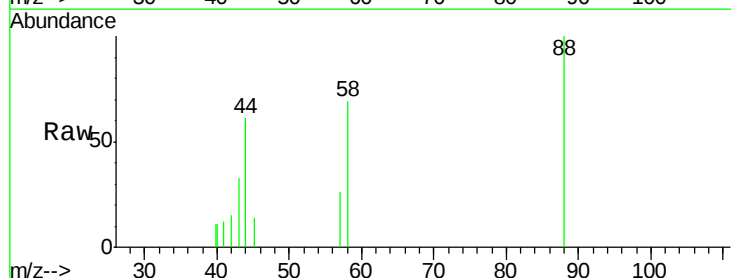
Tgt Ion: 88 Resp: 966

Ion Ratio Lower Upper

88 100

43 52.3 29.8 44.6#

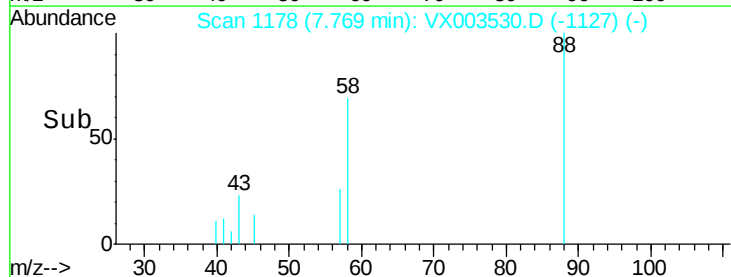
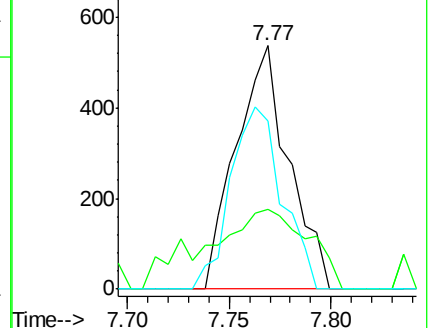
58 73.0 57.1 85.7

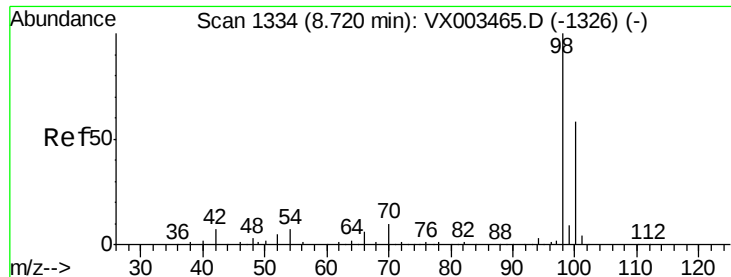


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

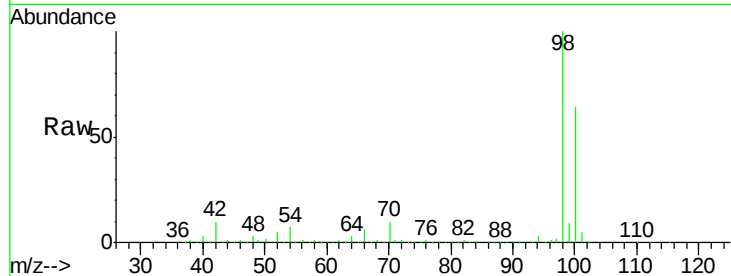




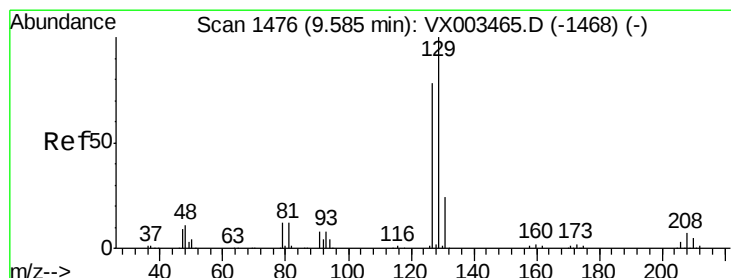
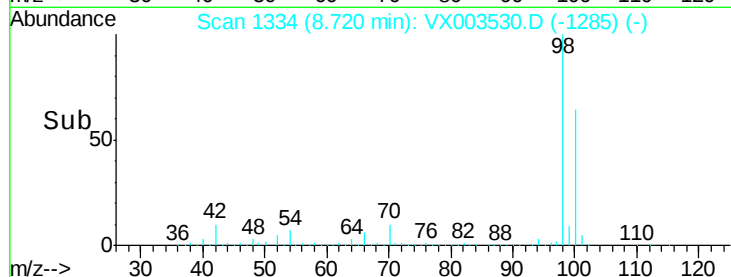
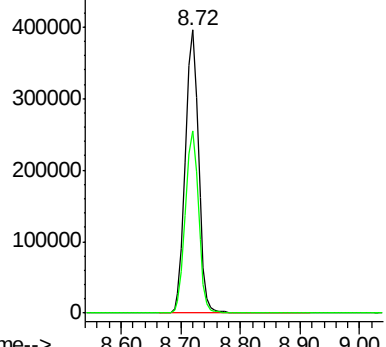
#50
Toluene-d8
Concen: 48.95 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003530.D
Acq: 21 Jul 2018 01:23

Instrument :
MSVOA_X
ClientSampleId :
RE104D1-071318

Tot Ion: 98 Resp: 604868
Ion Ratio Lower Upper
98 100
100 64.4 50.9 76.3

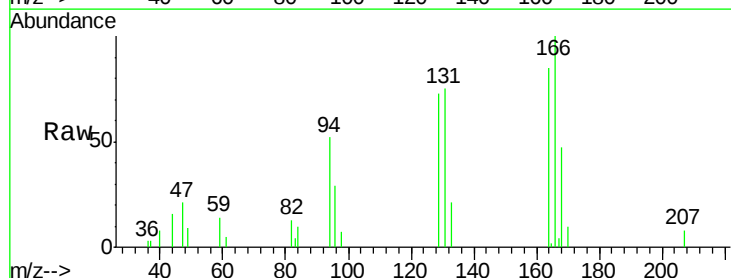


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

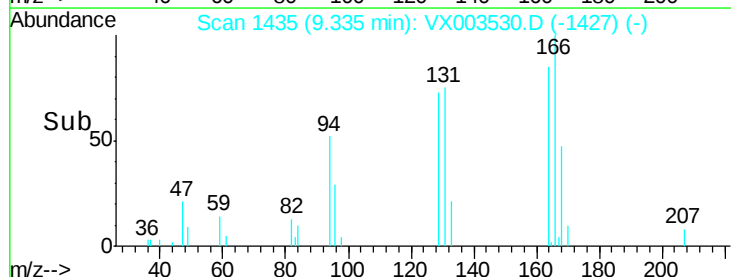
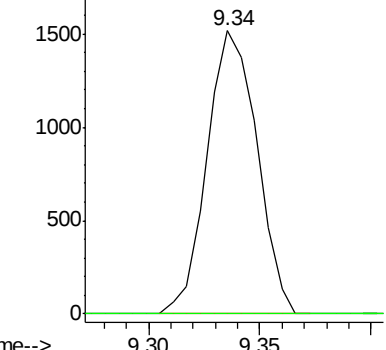


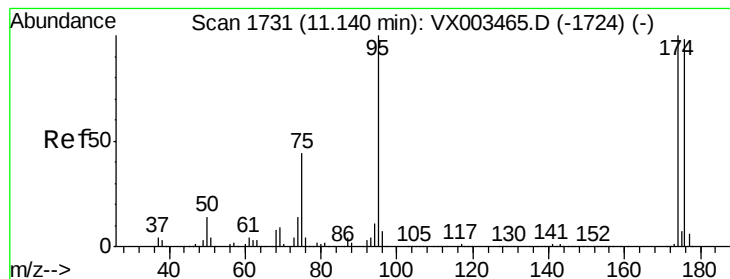
#60
Dibromochloromethane
Concen: 0.68 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX003530.D
Acq: 21 Jul 2018 01:23

Tgt Ion:129 Resp: 2370
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: 45.46 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-071318

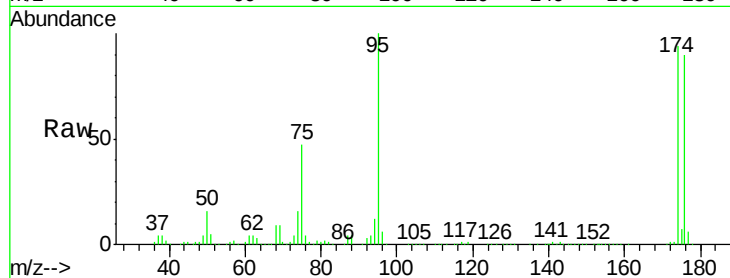
Tot Ion: 95 Resp: 204964

Ion Ratio Lower Upper

95 100

174 95.0 0.0 187.4

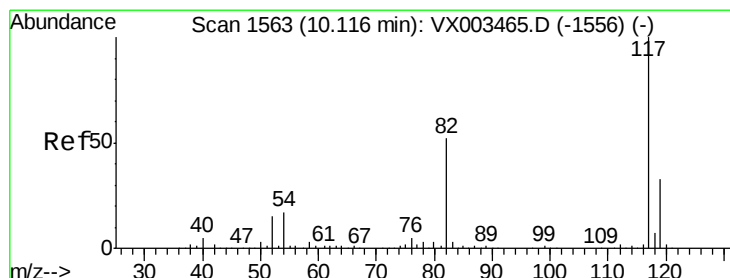
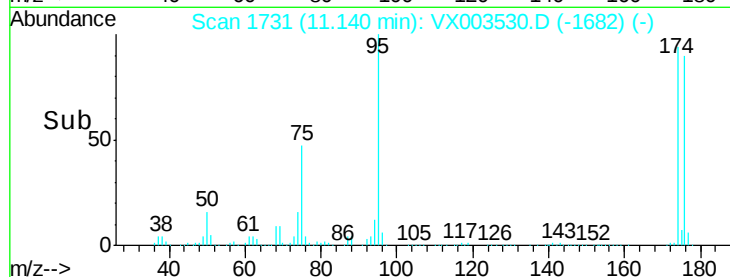
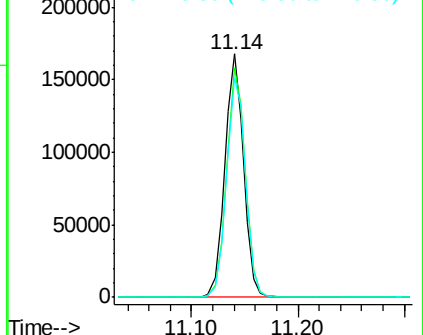
176 92.2 0.0 181.0



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: VX003530.D

Acq: 21 Jul 2018 01:23

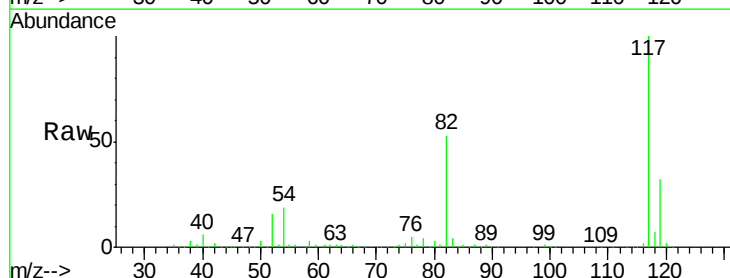
Tgt Ion: 117 Resp: 398107

Ion Ratio Lower Upper

117 100

82 53.4 45.0 67.4

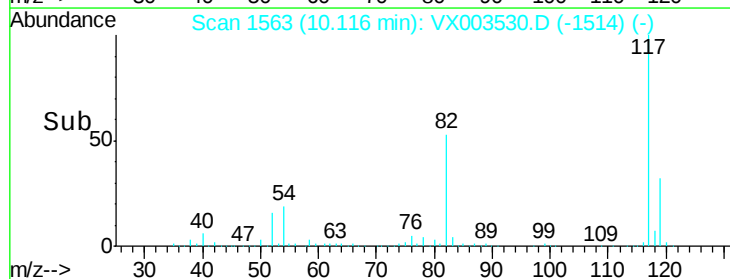
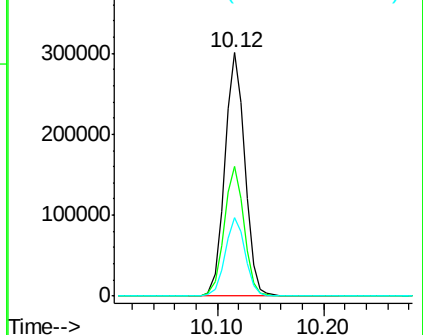
119 32.4 25.8 38.6

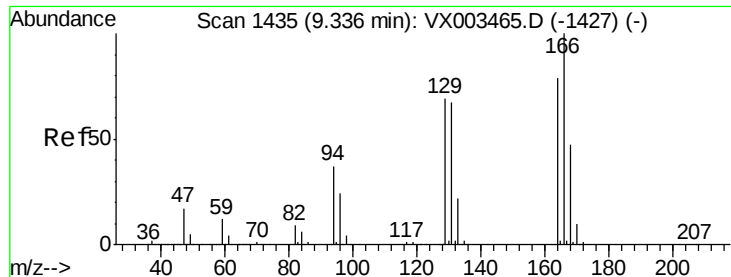


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.54 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.00 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

RE104D1-071318

Tot Ion:164 Resp: 2628

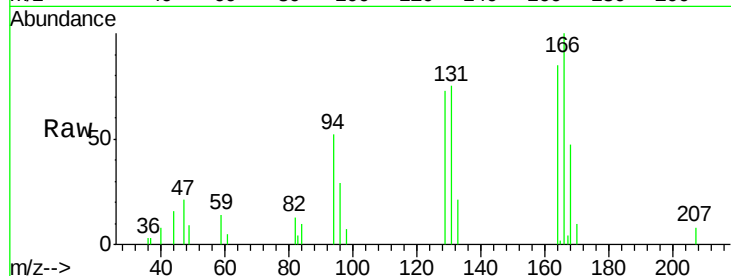
Ion Ratio Lower Upper

164 100

166 118.3 102.9 154.3

129 86.7 68.6 102.8

131 88.9 66.8 100.2

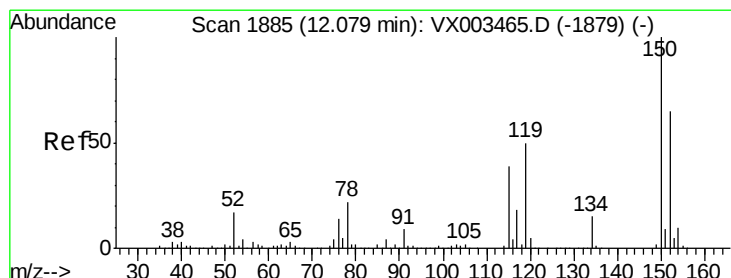
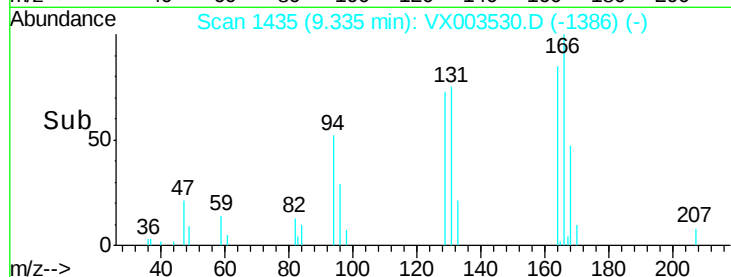
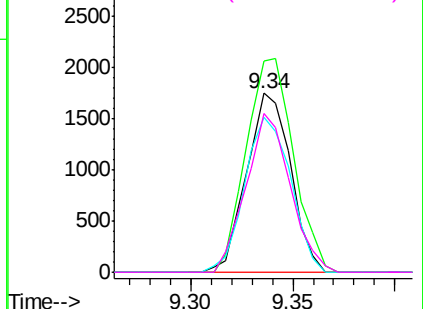


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX003530.D

Acq: 21 Jul 2018 01:23

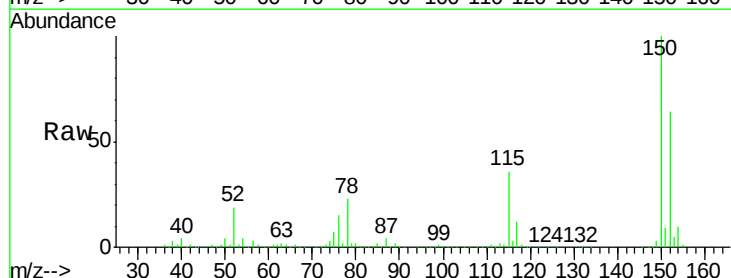
Tgt Ion:152 Resp: 217117

Ion Ratio Lower Upper

152 100

115 54.0 40.1 120.2

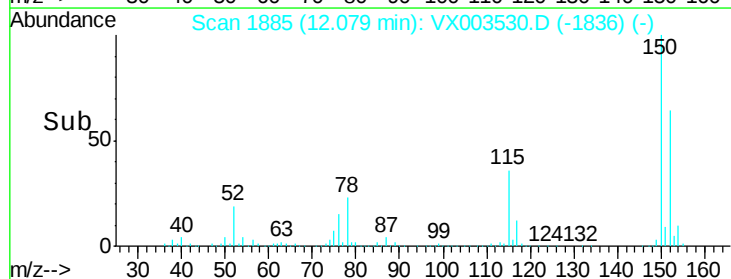
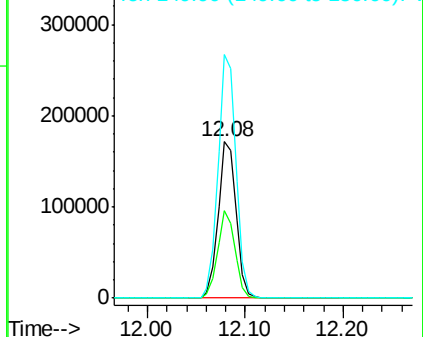
150 155.5 0.0 347.2

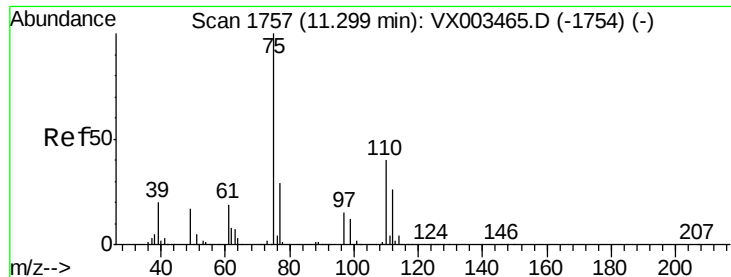


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

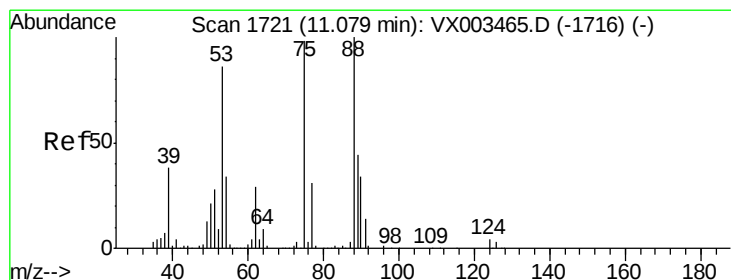
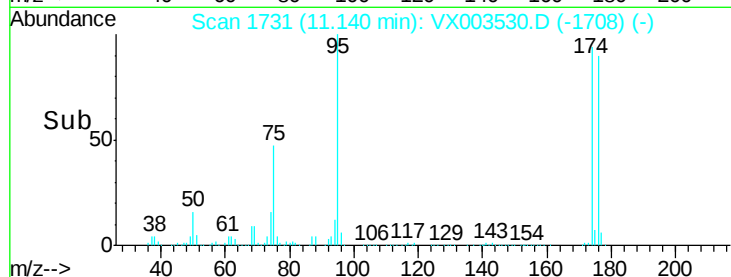
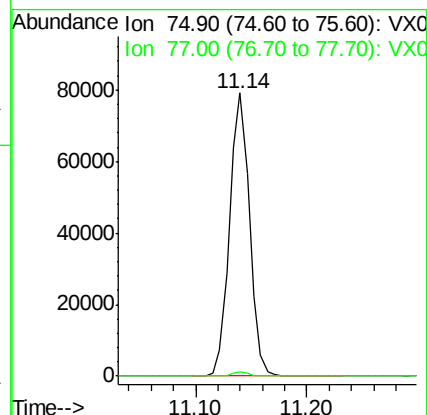
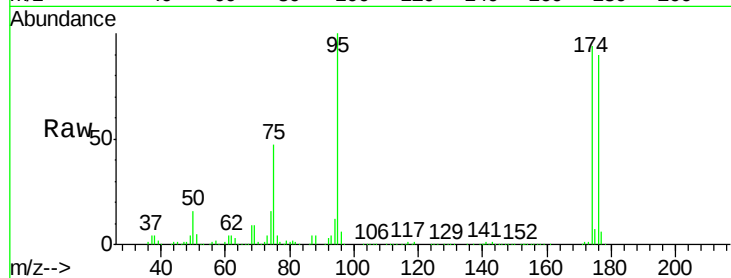
RE104D1-071318

Tot Ion: 75 Resp: 98068

Ion Ratio Lower Upper

75 100

77 1.4 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.40 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003530.D

Acq: 21 Jul 2018 01:23

Tgt Ion: 75 Resp: 98068

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#

