

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121018\
 Data File : VX006390.D
 Acq On : 11 Dec 2018 01:05
 Operator : JC/MD
 Sample : J6324-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-120D2-20181205

Quant Time: Dec 11 04:58:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	722365	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1116655	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	1006453	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	477622	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	372578	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
35) Dibromofluoromethane	5.51	113	344281	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
50) Toluene-d8	8.71	98	1284876	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	11.13	95	478219	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	

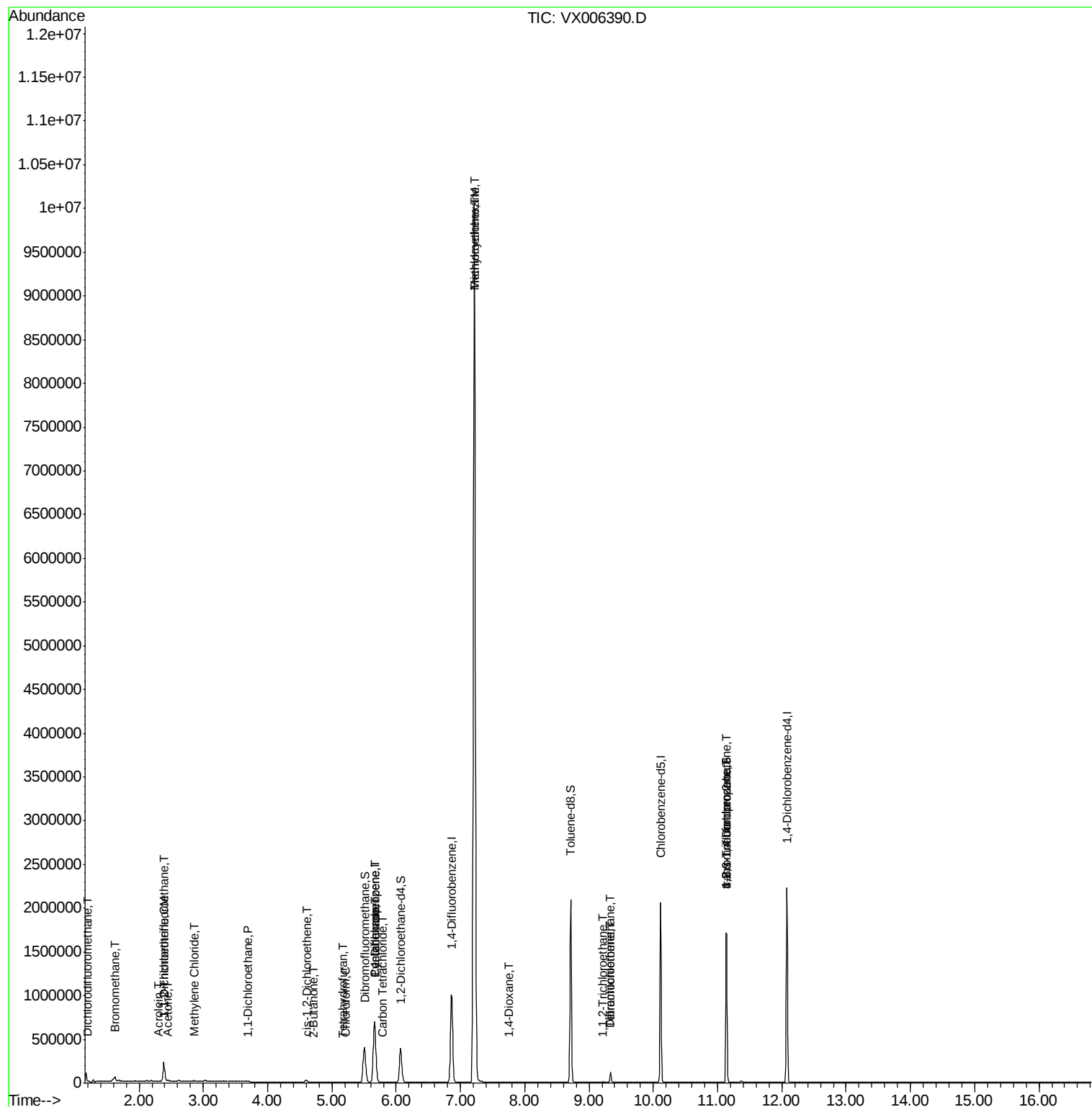
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	1813	0.256	ug/l	88
5) Bromomethane	1.64	94	1402	0.259	ug/l #	47
9) 1,1,2-Trichlorotrifluoroet	2.39	101	68100	9.974	ug/l	97
12) 1,1-Dichloroethene	2.38	96	21254	3.252	ug/l	93
13) Acrolein	2.30	56	324	0.294	ug/l #	1
16) Acetone	2.45	43	6464	1.868	ug/l	93
20) Methylene Chloride	2.86	84	1773	0.241	ug/l #	83
24) 1,1-Dichloroethane	3.70	63	8959	0.777	ug/l	96
25) 2-Butanone	4.71	43	1493	0.302	ug/l #	70
27) cis-1,2-Dichloroethene	4.60	96	17478	2.249	ug/l	85
29) Tetrahydrofuran	5.17	42	1096	0.319	ug/l #	37
30) Chloroform	5.22	83	6435	0.531	ug/l	94
31) Cyclohexane	5.66	56	12443	1.168	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	45635	4.853	ug/l #	48
38) Carbon Tetrachloride	5.79	117	4869	0.440	ug/l #	76
39) Methylcyclohexane	7.21	83	43571	3.570	ug/l #	1
44) Trichloroethene	7.21	130	4095976	480.068	ug/l	93
49) 1,4-Dioxane	7.76	88	3652	17.348	ug/l	96
55) 1,1,2-Trichloroethane	9.22	97	3259	0.433	ug/l	90
60) Dibromochloromethane	9.34	129	19673	2.119	ug/l #	11
64) Tetrachloroethene	9.34	164	20768	2.740	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	217310	23.572	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	217310	55.318	ug/l #	15

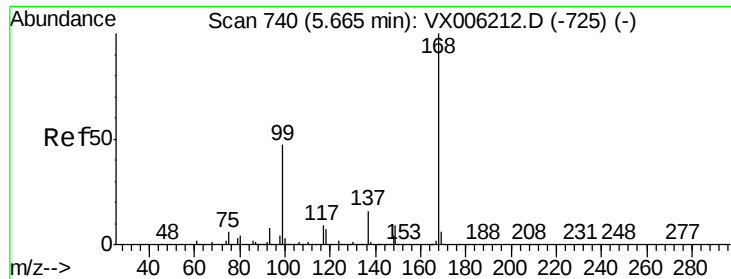
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

Instrument :

MSVOA_X

ClientSampleId :

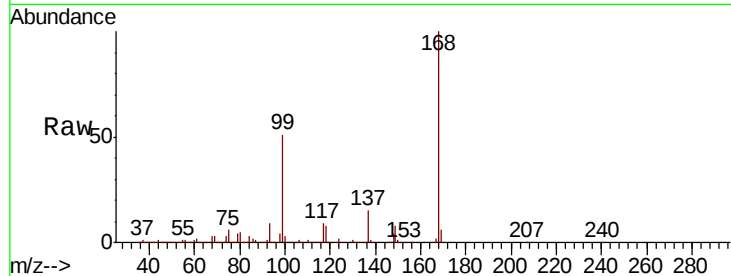
RE-120D2-20181205

Tot Ion:168 Resp: 722365

Ion Ratio Lower Upper

168 100

99 50.6 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

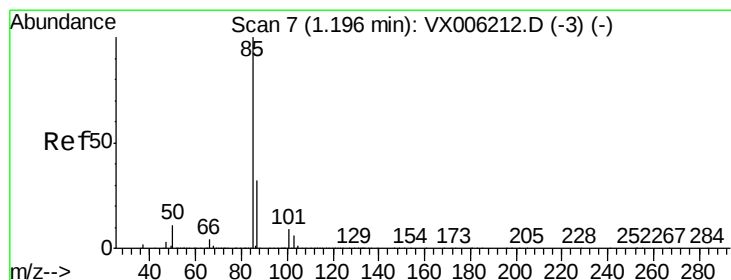
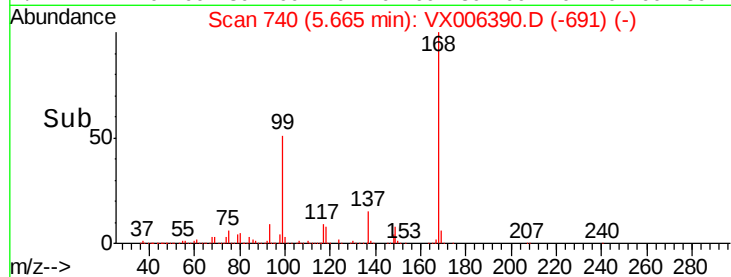
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.256 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX006390.D

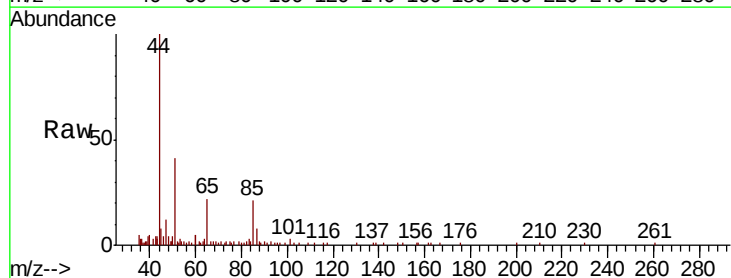
Acq: 11 Dec 2018 01:05

Tgt Ion: 85 Resp: 1813

Ion Ratio Lower Upper

85 100

87 38.7 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

1500

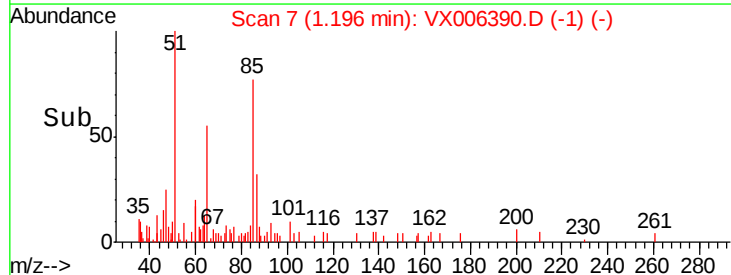
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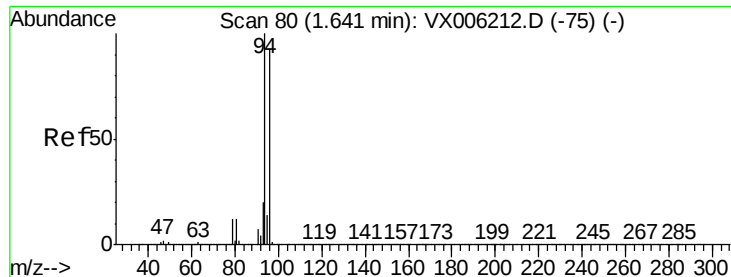
500

0

Time-->

1.15 1.20 1.25





#5

Bromomethane

Concen: 0.259 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

Instrument :

MSVOA_X

ClientSampleId :

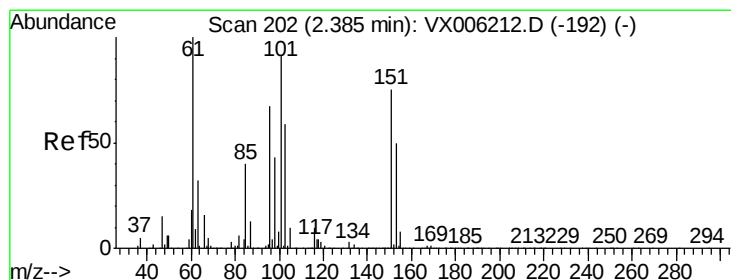
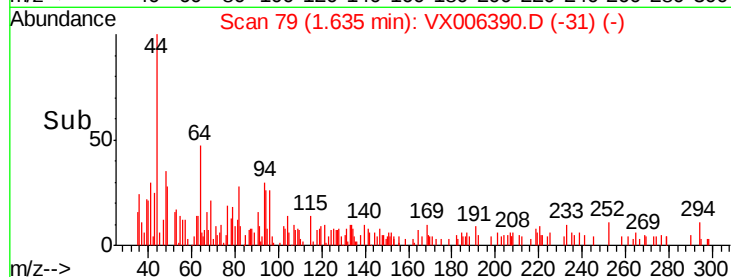
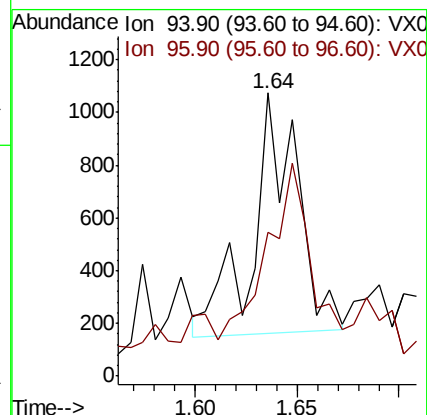
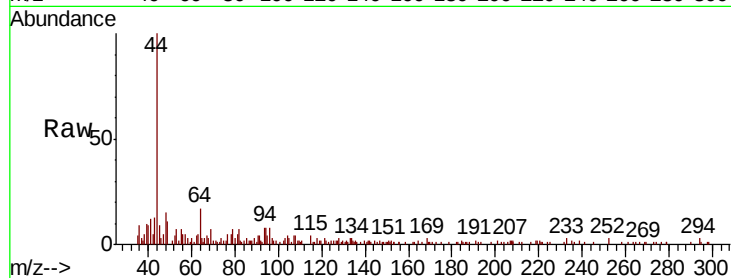
RE-120D2-20181205

Tot Ion: 94 Resp: 1402

Ion Ratio Lower Upper

94 100

96 41.9 74.5 111.7#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.974 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

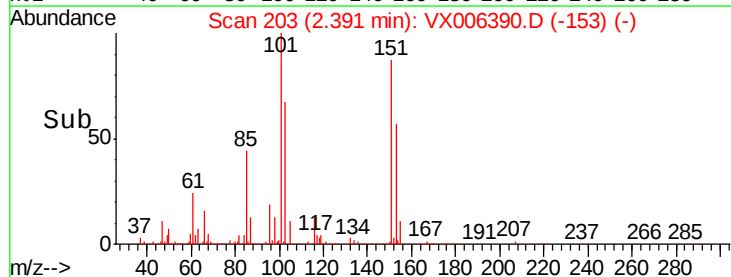
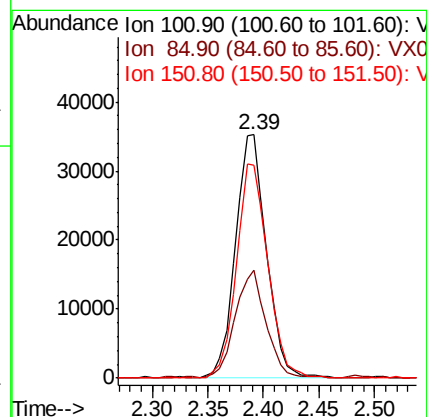
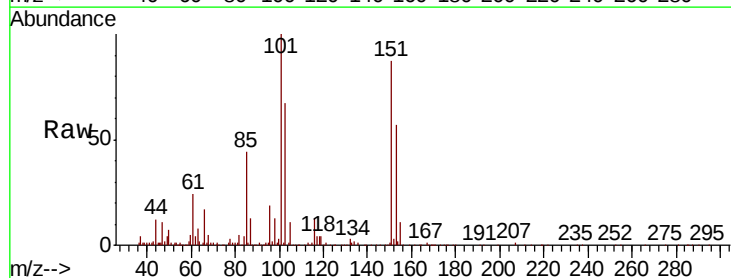
Tgt Ion: 101 Resp: 68100

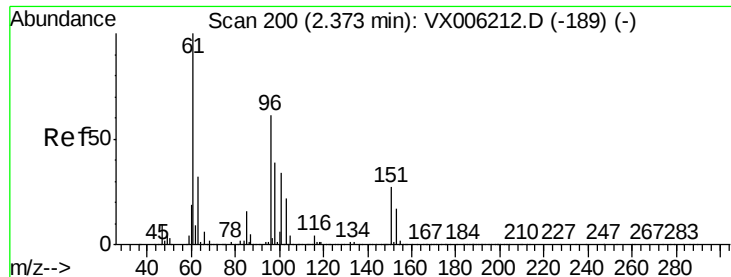
Ion Ratio Lower Upper

101 100

85 43.5 35.5 53.3

151 89.0 68.6 103.0





#12

1,1-Dichloroethene

Concen: 3.252 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

Instrument :

MSVOA_X

ClientSampleId :

RE-120D2-20181205

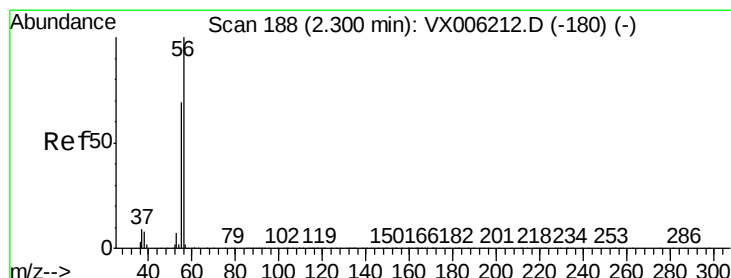
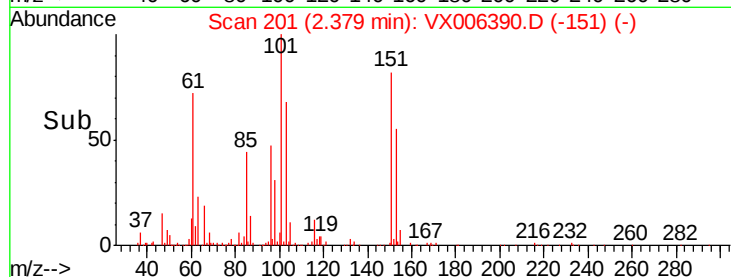
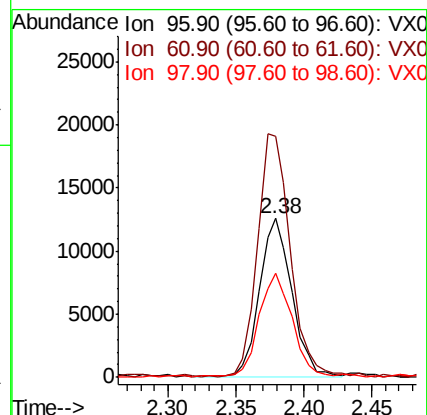
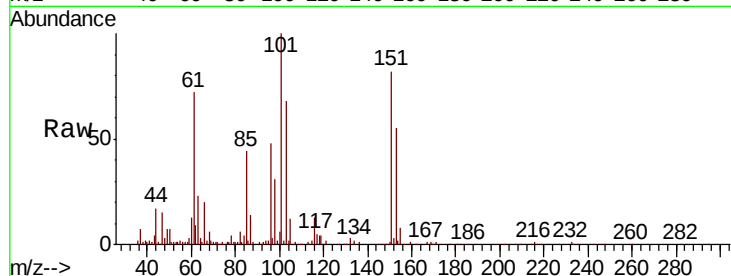
Tot Ion: 96 Resp: 21254

Ion Ratio Lower Upper

96 100

61 151.5 131.7 197.5

98 65.8 51.8 77.6



#13

Acrolein

Concen: 0.294 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.00 min

Lab File: VX006390.D

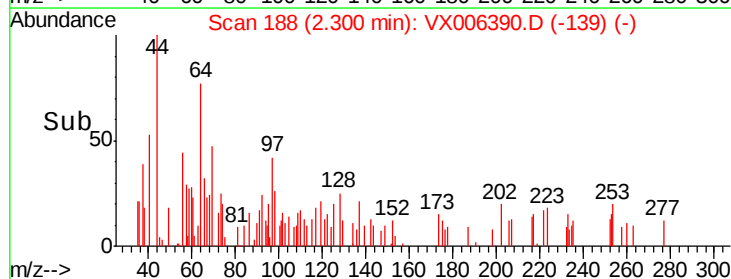
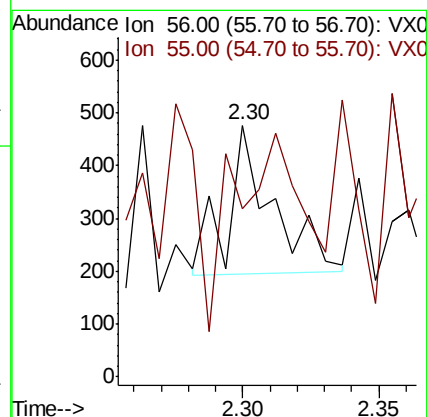
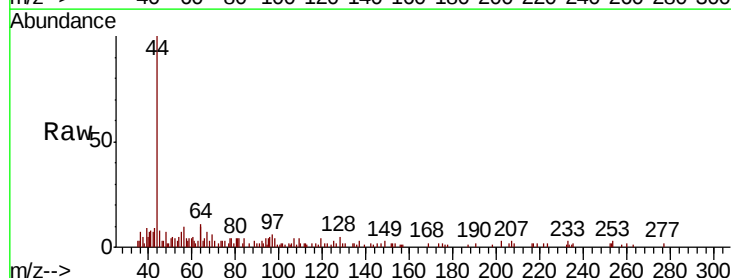
Acq: 11 Dec 2018 01:05

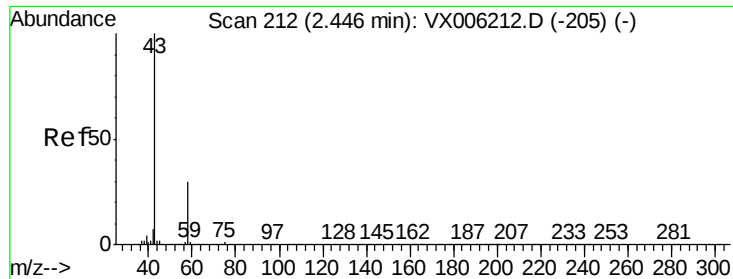
Tgt Ion: 56 Resp: 324

Ion Ratio Lower Upper

56 100

55 208.0 57.8 86.6#





#16

Acetone

Concen: 1.868 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

Instrument :

MSVOA_X

ClientSampleId :

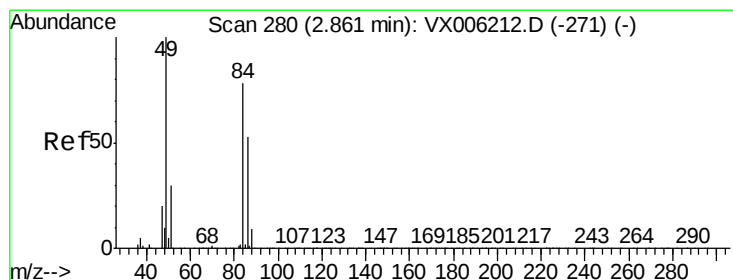
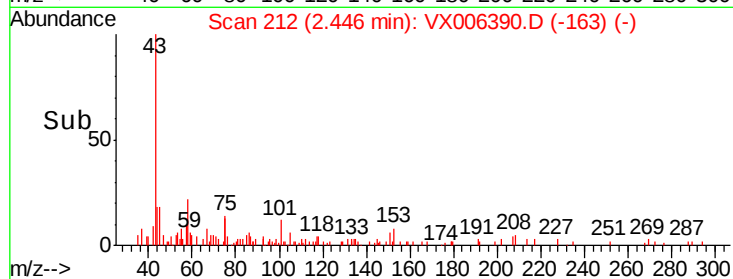
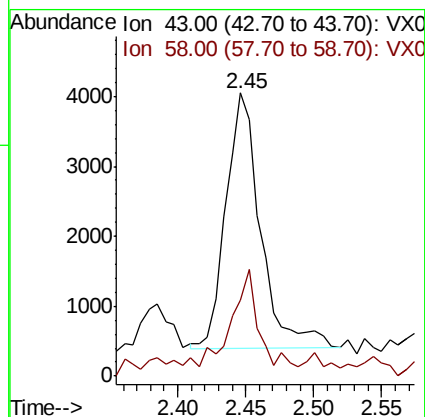
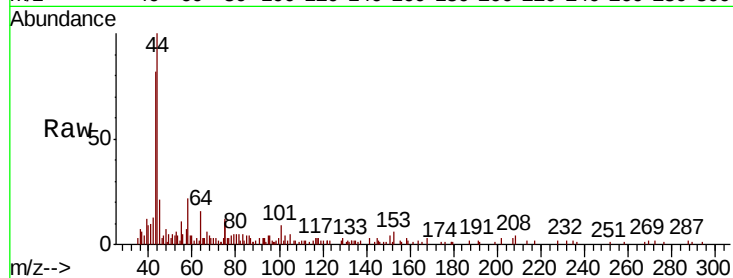
RE-120D2-20181205

Tot Ion: 43 Resp: 6464

Ion Ratio Lower Upper

43 100

58 26.4 24.0 36.0



#20

Methylene Chloride

Concen: 0.241 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

Tgt Ion: 84 Resp: 1773

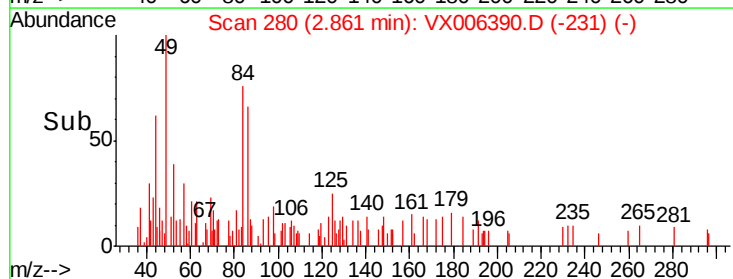
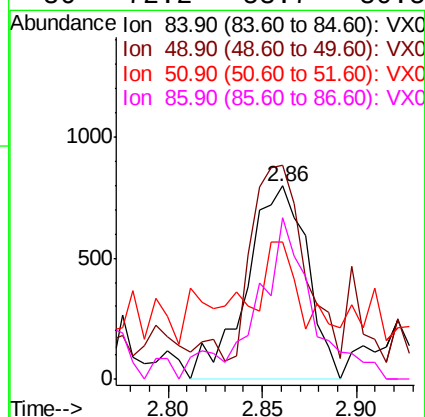
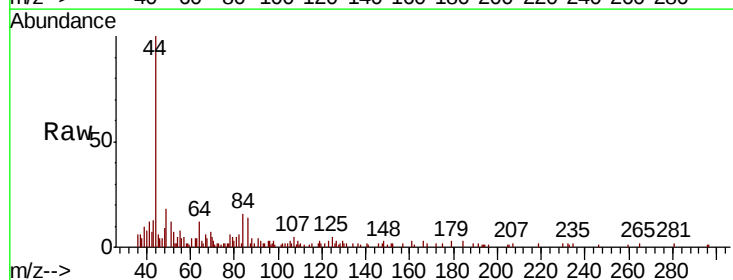
Ion Ratio Lower Upper

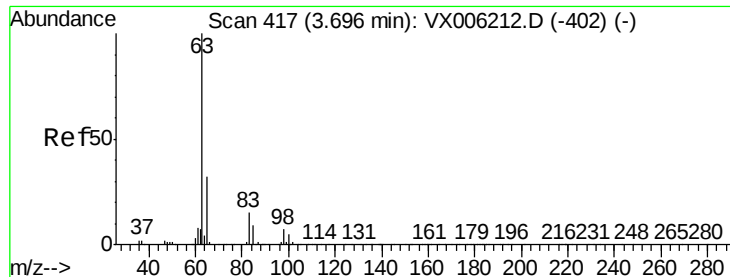
84 100

49 100.1 102.2 153.4#

51 44.7 31.1 46.7

86 72.2 53.7 80.5





#24

1,1-Dichloroethane

Concen: 0.777 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

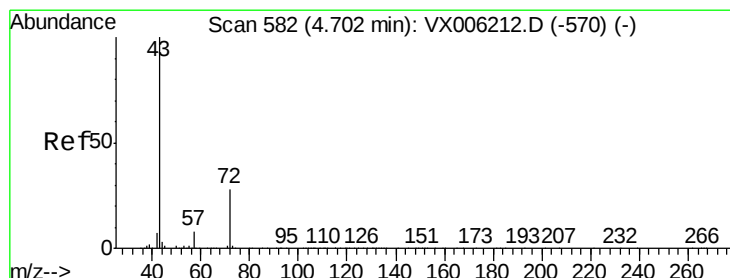
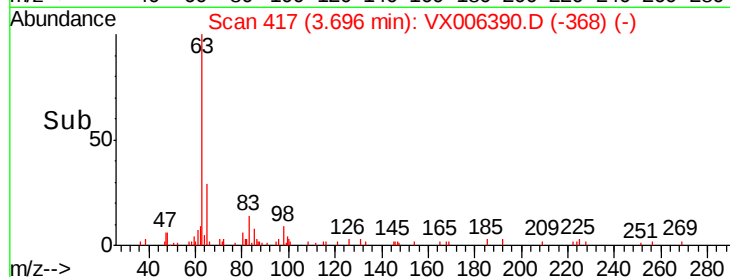
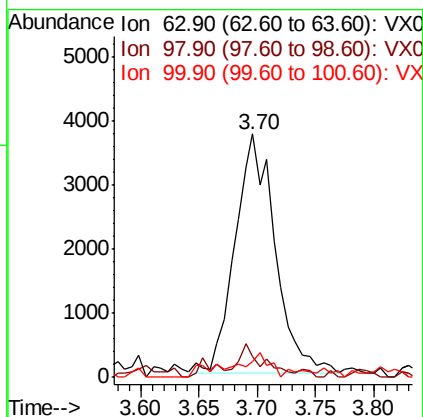
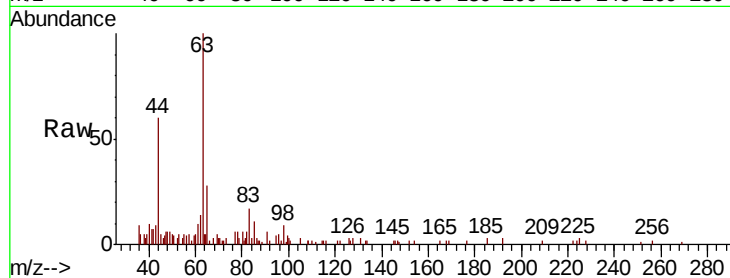
Instrument :

MSVOA_X

ClientSampleId :

RE-120D2-20181205

Tot Ion:	63	Resp:	8959
Ion	Ratio	Lower	Upper
63	100		
98	8.8	3.8	11.4
100	6.8	2.5	7.4



#25

2-Butanone

Concen: 0.302 ug/l

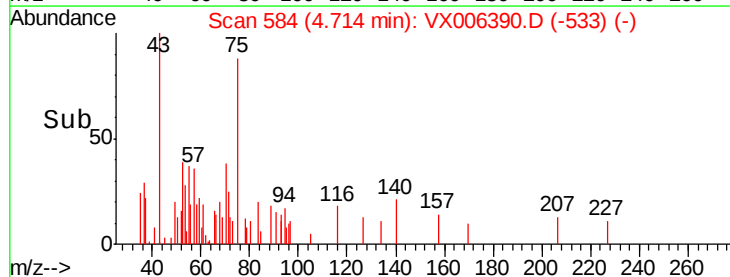
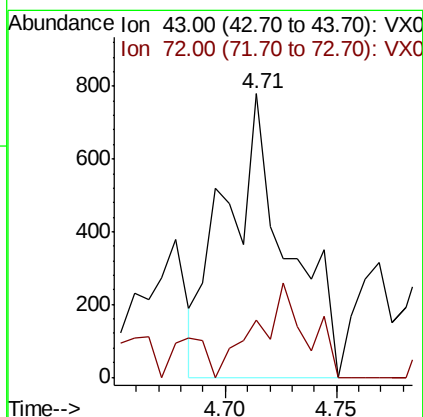
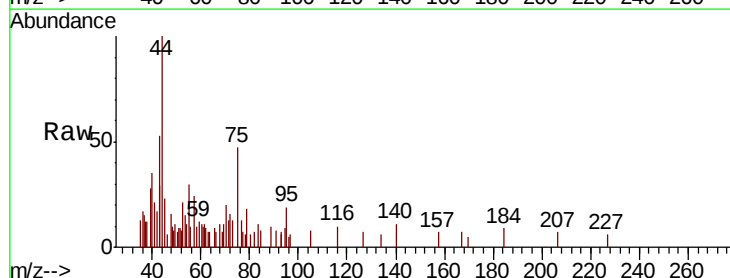
RT: 4.71 min Scan# 584

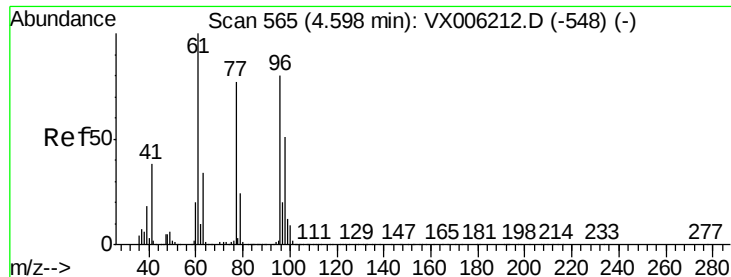
Delta R.T. 0.01 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

Tgt Ion:	43	Resp:	1493
Ion	Ratio	Lower	Upper
43	100		
72	12.2	22.6	33.8#

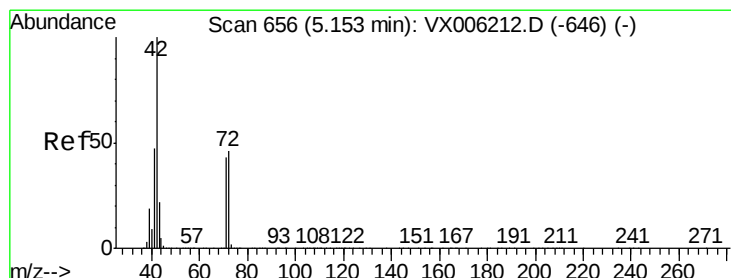
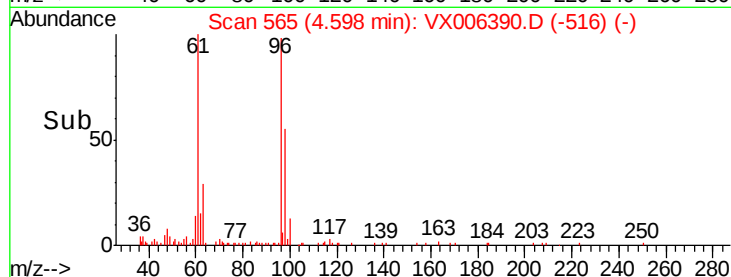
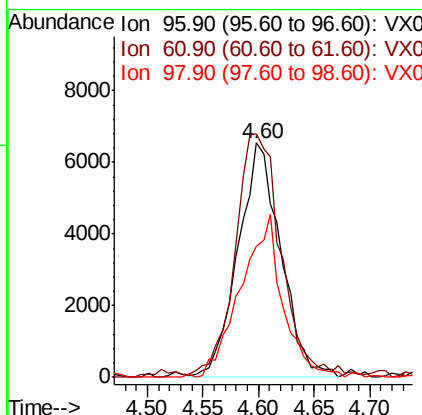
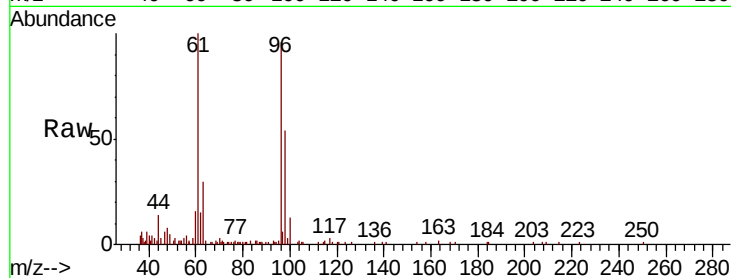




#27
 cis-1,2-Dichloroethene
 Concen: 2.249 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX006390.D
 Acq: 11 Dec 2018 01:05

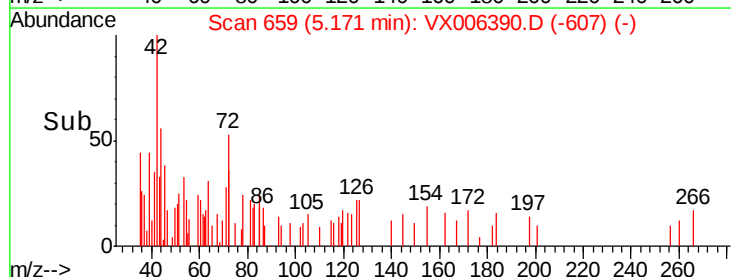
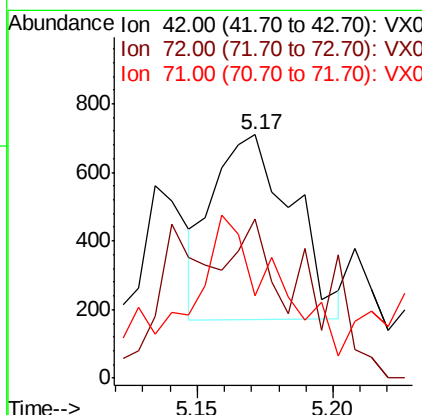
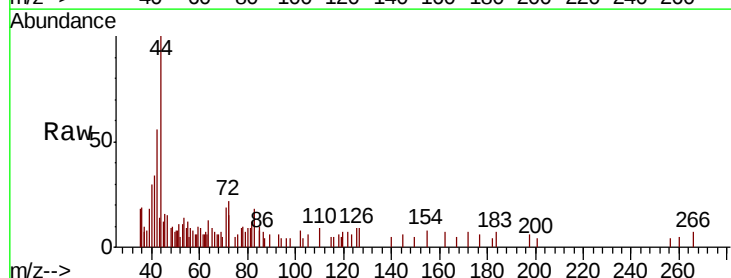
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 ClientSampleId :
 RE-120D2-20181205

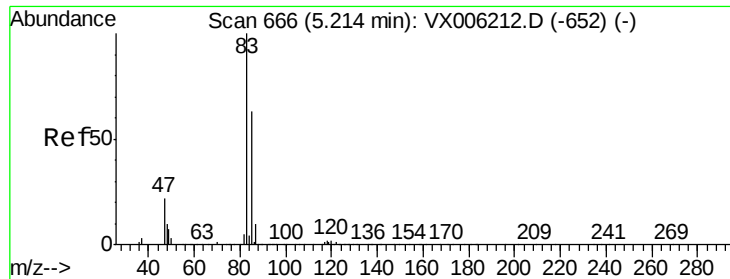
Tot Ion: 96 Resp: 17478
 Ion Ratio Lower Upper
 96 100
 61 109.1 0.0 265.0
 98 68.2 0.0 130.2



#29
 Tetrahydrofuran
 Concen: 0.319 ug/l
 RT: 5.17 min Scan# 659
 Delta R.T. 0.02 min
 Lab File: VX006390.D
 Acq: 11 Dec 2018 01:05

Tgt Ion: 42 Resp: 1096
 Ion Ratio Lower Upper
 42 100
 72 0.0 37.8 56.8#
 71 80.0 35.2 52.8#

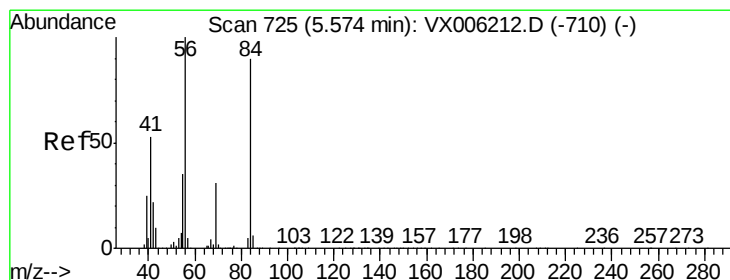
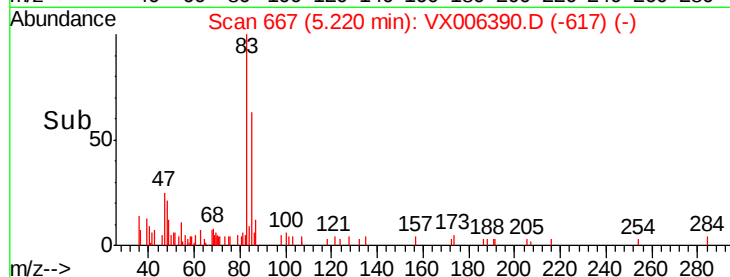
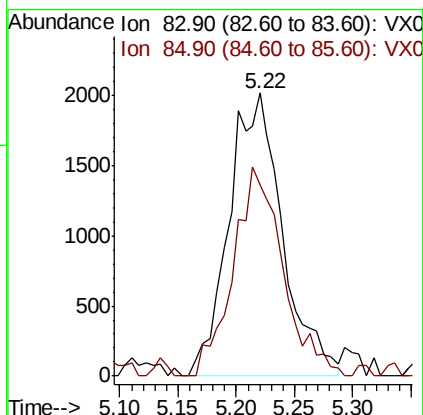
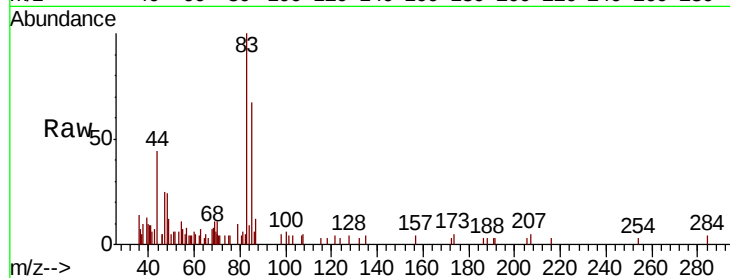




#30
Chloroform
Concen: 0.531 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX006390.D
Acq: 11 Dec 2018 01:05

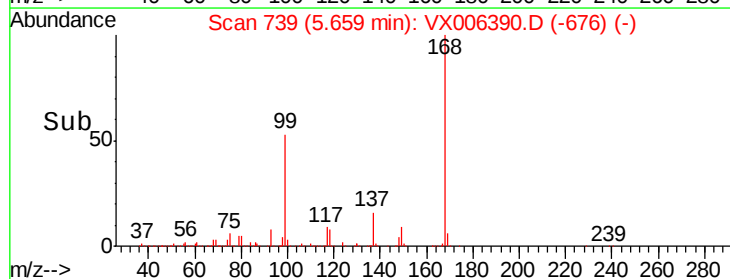
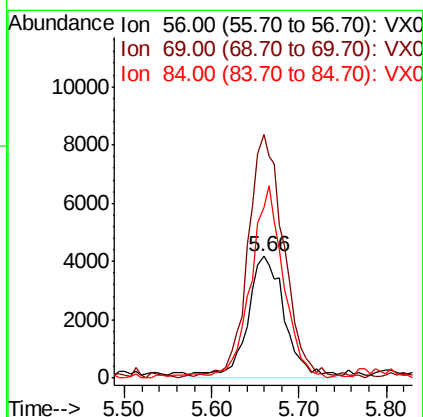
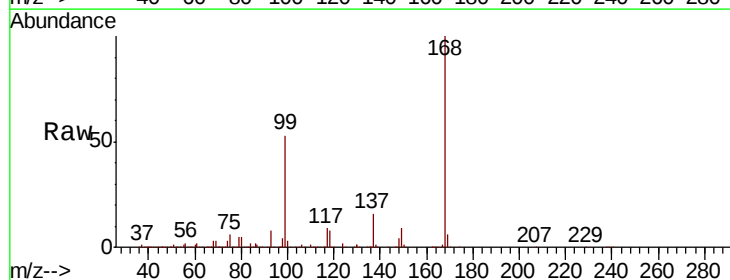
Instrument :
MSVOA_X
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RE-120D2-20181205

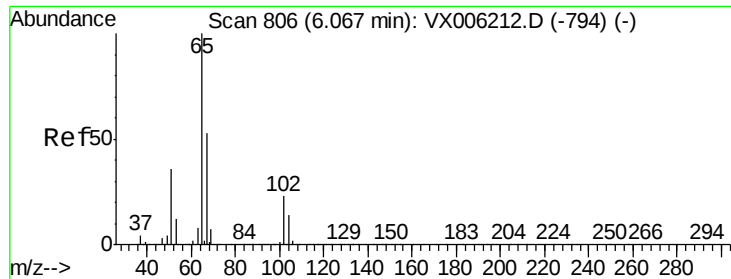
Tot Ion: 83 Resp: 6435
Ion Ratio Lower Upper
83 100
85 67.5 50.3 75.5



#31
Cyclohexane
Concen: 1.168 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX006390.D
Acq: 11 Dec 2018 01:05

Tgt Ion: 56 Resp: 12443
Ion Ratio Lower Upper
56 100
69 201.5 24.5 36.7#
84 140.4 71.8 107.6#





#33

1,2-Dichloroethane-d4

Concen: 50.525 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

Instrument :

MSVOA_X

ClientSampleId :

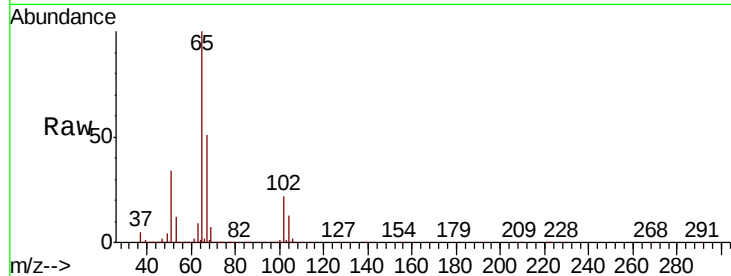
RE-120D2-20181205

Tot Ion: 65 Resp: 372578

Ion Ratio Lower Upper

65 100

67 52.1 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

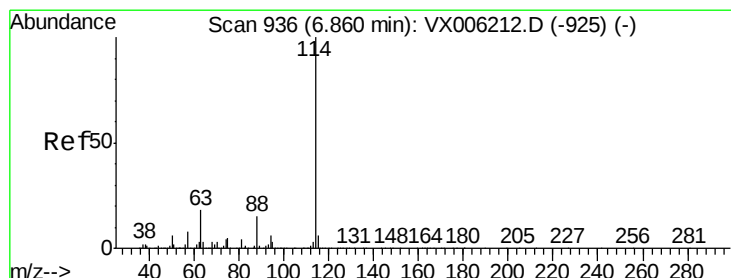
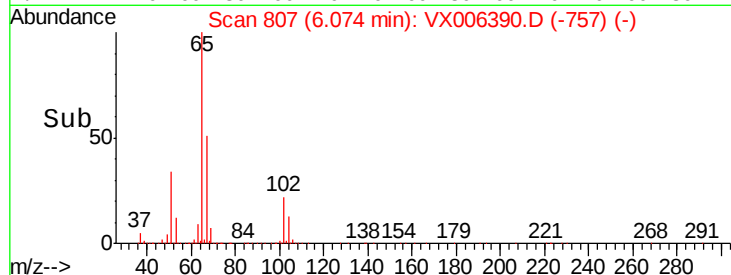
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

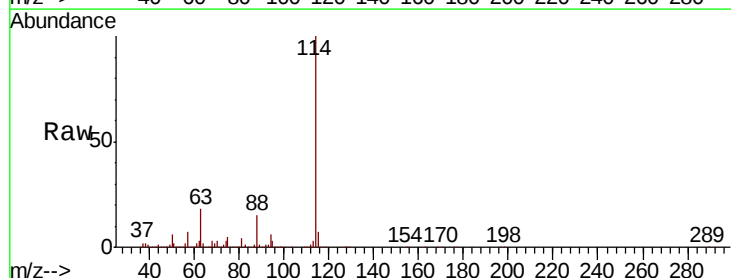
Tgt Ion: 114 Resp: 1116655

Ion Ratio Lower Upper

114 100

63 17.6 0.0 36.6

88 15.0 0.0 29.0



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

6.86

600000

500000

400000

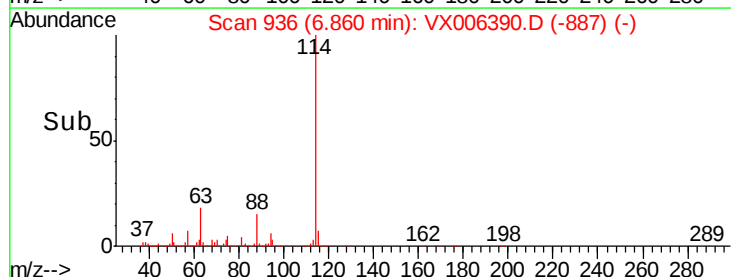
300000

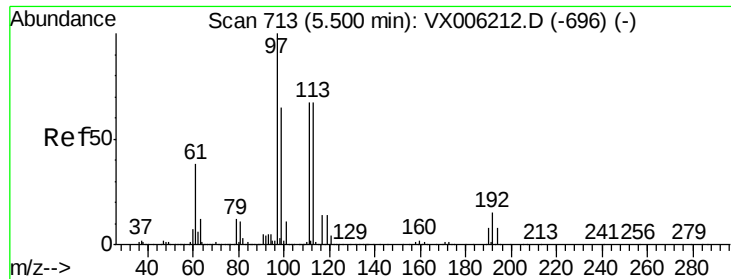
200000

100000

0

Time--> 6.70 6.80 6.90 7.00

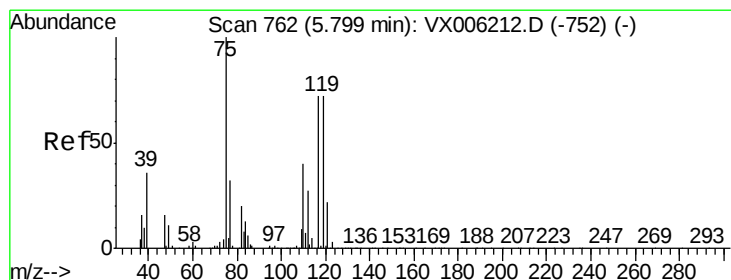
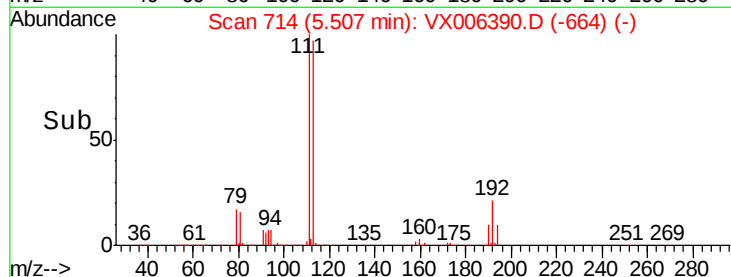
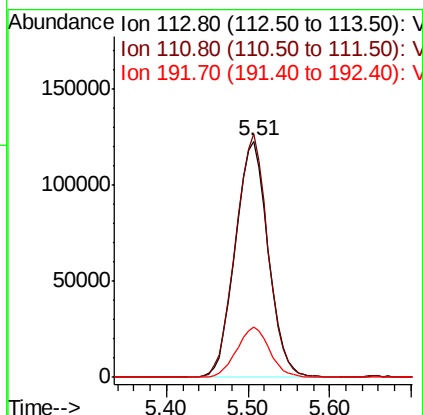
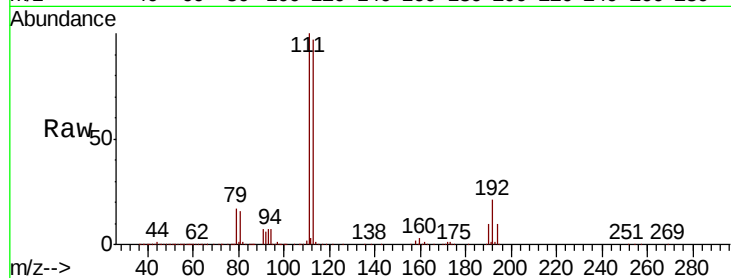




#35
 Dibromofluoromethane
 Concen: 47.619 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX006390.D
 Acq: 11 Dec 2018 01:05

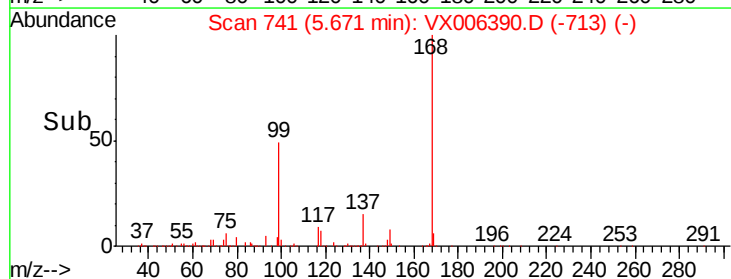
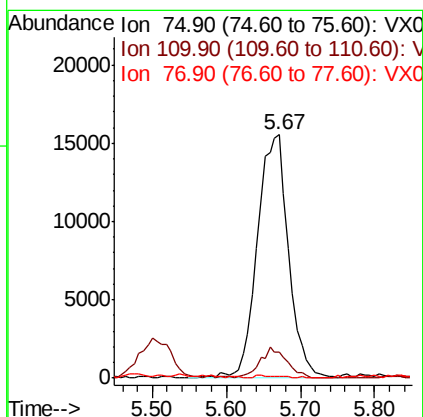
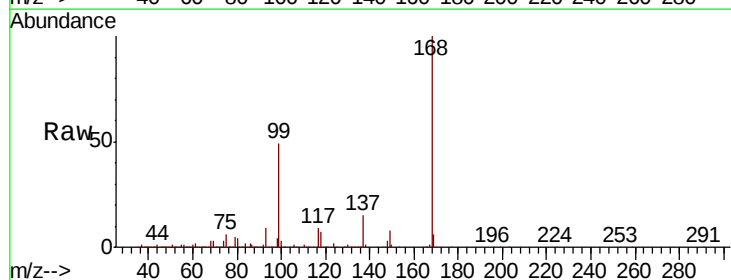
Instrument :
 MSVOA_X
 ClientSampleId :
 RE-120D2-20181205

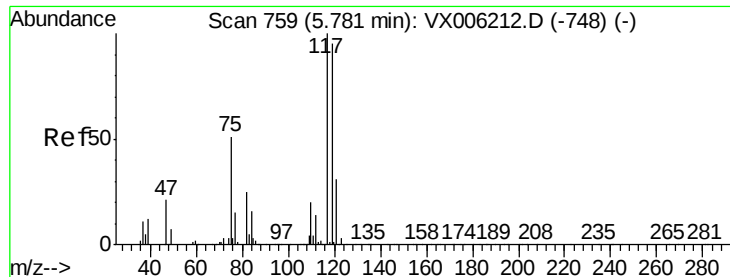
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.1	121.7
192	21.3	18.2	27.2



#36
 1,1-Dichloropropene
 Concen: 4.853 ug/l
 RT: 5.67 min Scan# 741
 Delta R.T. -0.13 min
 Lab File: VX006390.D
 Acq: 11 Dec 2018 01:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	20.4	61.3#
77	0.0	24.9	37.3#

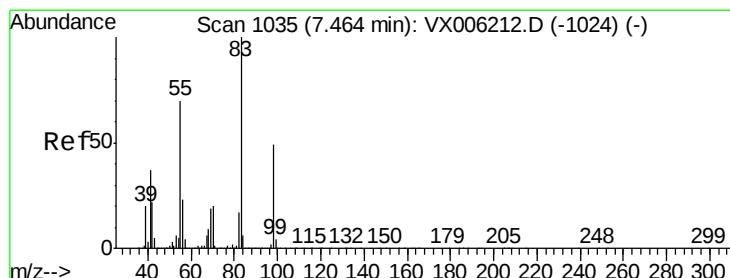
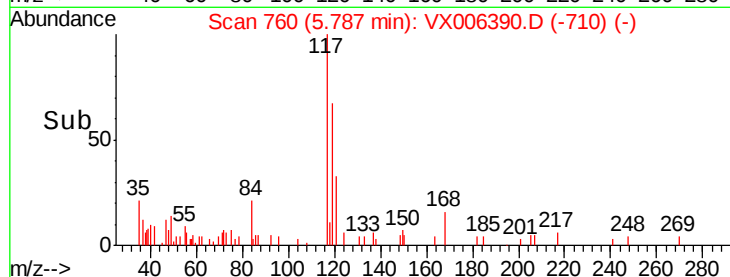
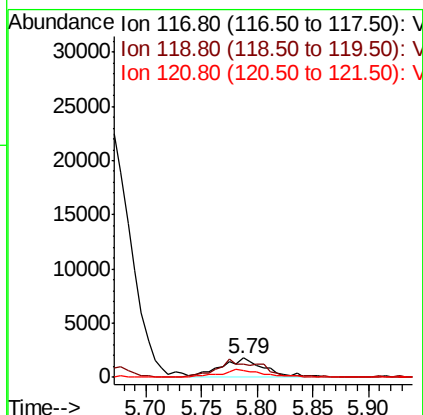
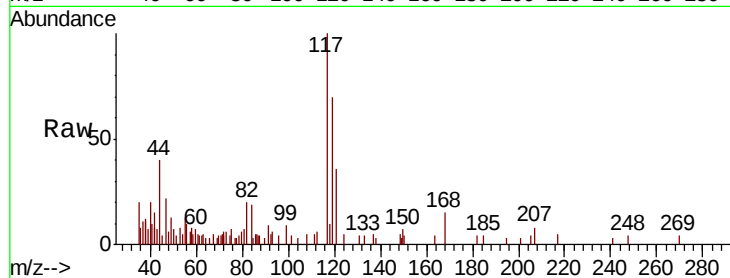




#38
Carbon Tetrachloride
Concen: 0.440 ug/l
RT: 5.79 min Scan# 760
Delta R.T. 0.01 min
Lab File: VX006390.D
Acq: 11 Dec 2018 01:05

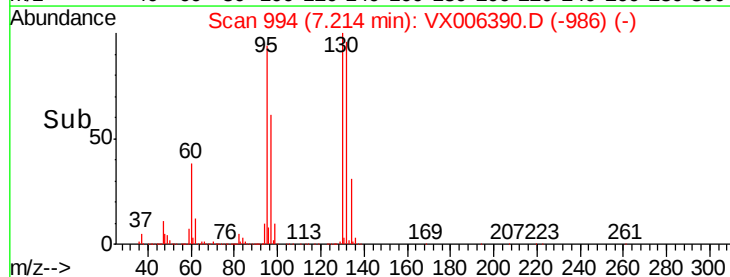
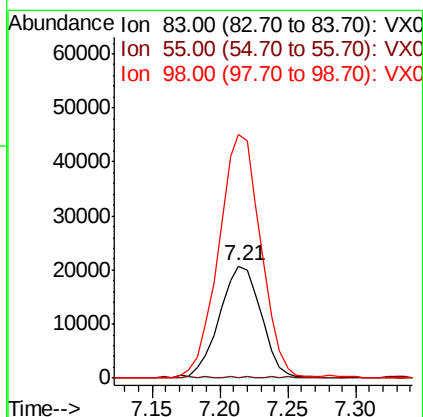
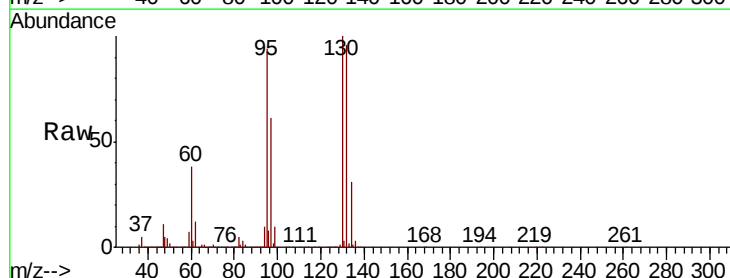
Instrument :
MSVOA_X
ClientSampleId :
RE-120D2-20181205

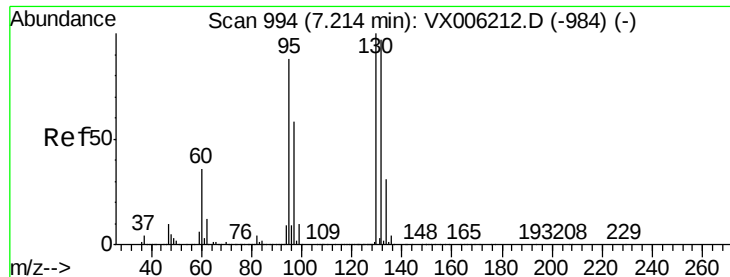
Tot Ion: 117 Resp: 4869
Ion Ratio Lower Upper
117 100
119 67.3 75.8 113.8#
121 35.5 24.6 37.0



#39
Methylcyclohexane
Concen: 3.570 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.25 min
Lab File: VX006390.D
Acq: 11 Dec 2018 01:05

Tgt Ion: 83 Resp: 43571
Ion Ratio Lower Upper
83 100
55 0.0 56.4 84.6#
98 217.4 39.0 58.6#





#44

Trichloroethene

Concen: 480.068 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

Instrument :

MSVOA_X

ClientSampleId :

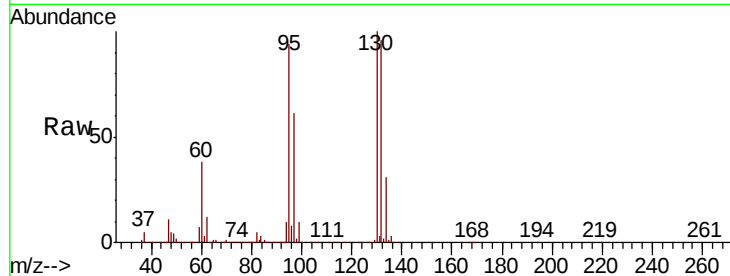
RE-120D2-20181205

Tot Ion:130 Resp: 4095976

Ion Ratio Lower Upper

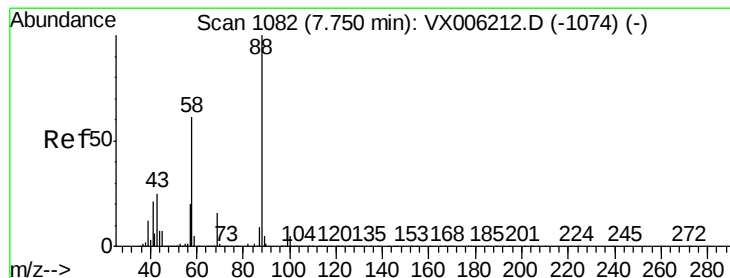
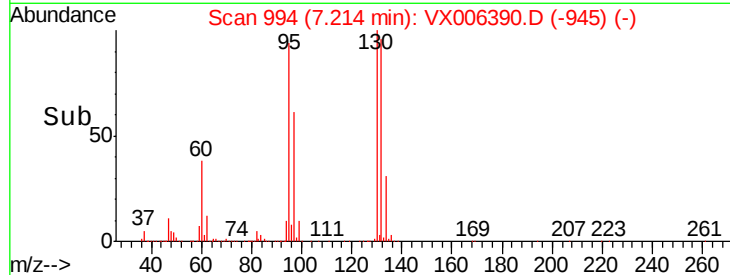
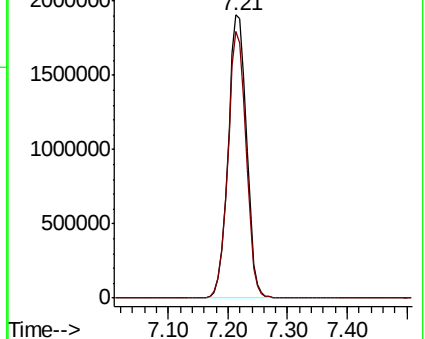
130 100

95 94.2 0.0 175.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 17.348 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

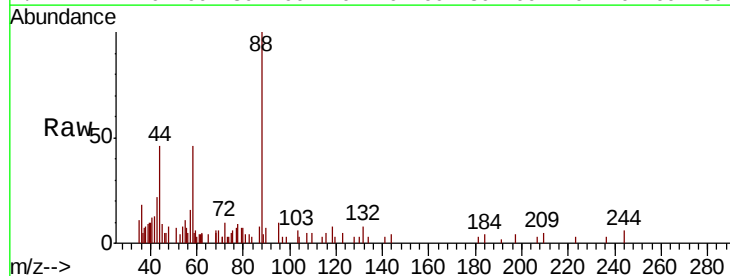
Tgt Ion: 88 Resp: 3652

Ion Ratio Lower Upper

88 100

43 34.6 23.2 34.8

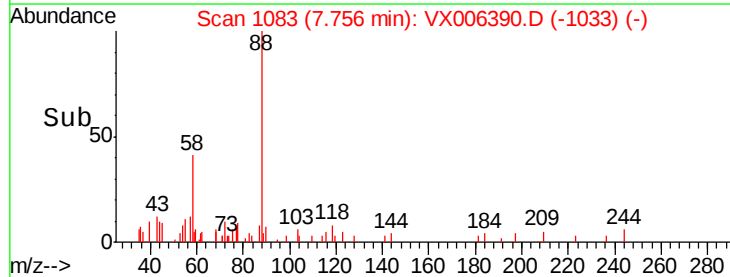
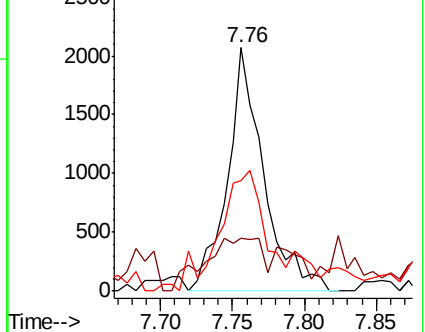
58 63.0 51.4 77.0

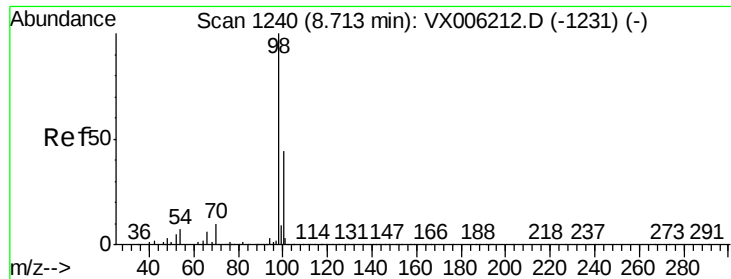


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.858 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

Instrument :

MSVOA_X

ClientSampleId :

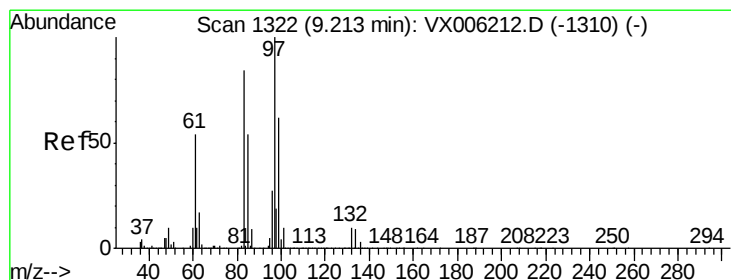
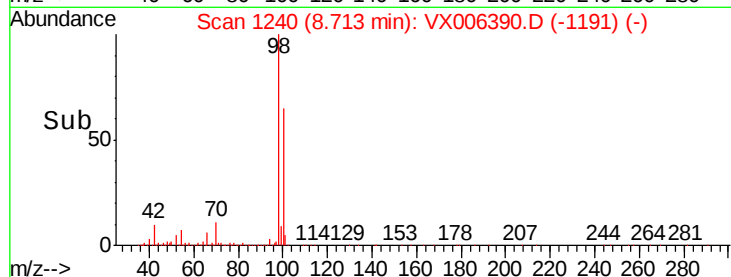
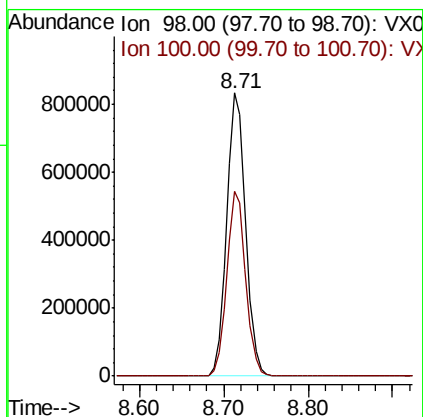
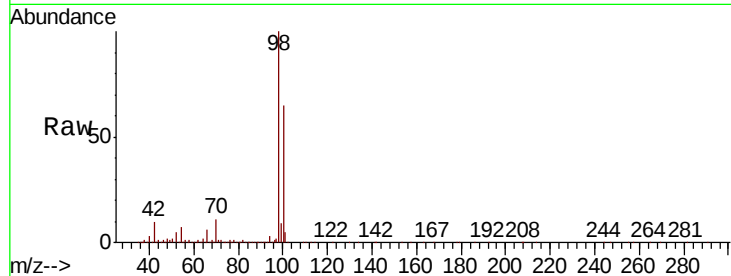
RE-120D2-20181205

Tot Ion: 98 Resp: 1284876

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.2



#55

1,1,2-Trichloroethane

Concen: 0.433 ug/l

RT: 9.22 min Scan# 1323

Delta R.T. 0.01 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

Tgt Ion: 97 Resp: 3259

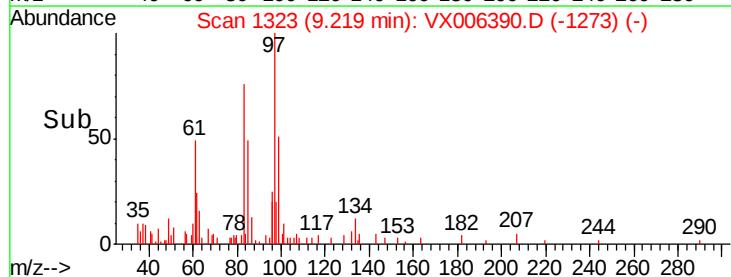
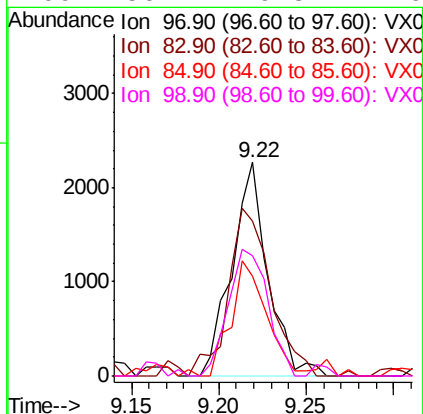
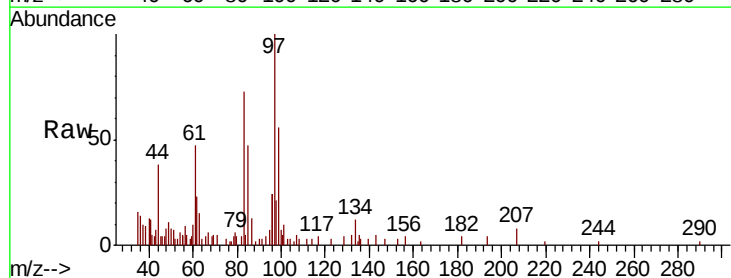
Ion Ratio Lower Upper

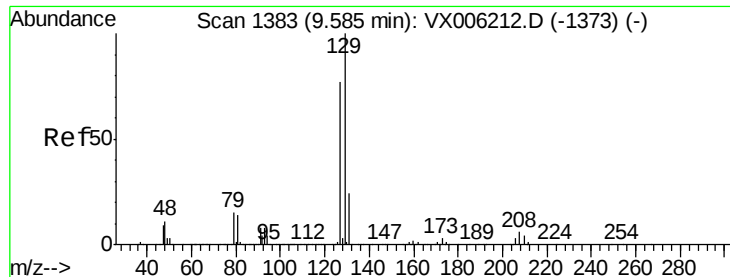
97 100

83 72.7 67.1 100.7

85 47.0 43.2 64.8

99 56.1 49.8 74.6





#60

Dibromochloromethane

Concen: 2.119 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

Instrument :

MSVOA_X

ClientSampleId :

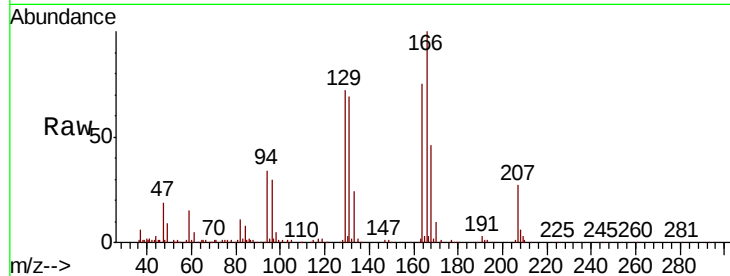
RE-120D2-20181205

Tot Ion:129 Resp: 19673

Ion Ratio Lower Upper

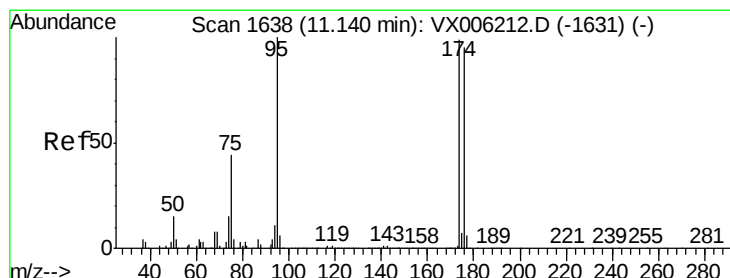
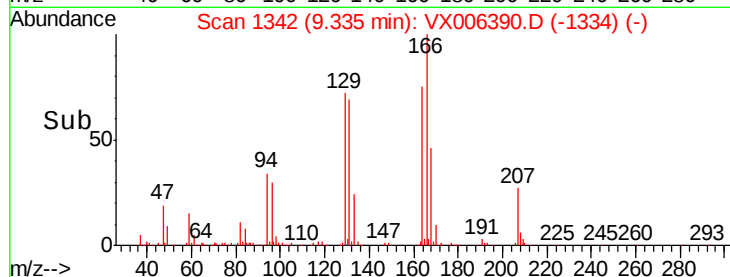
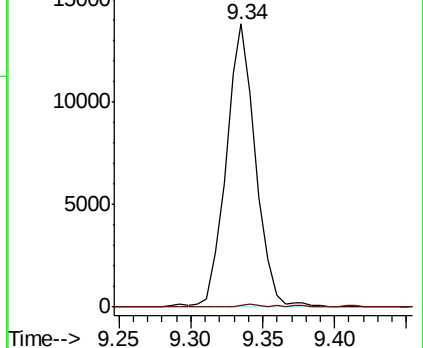
129 100

127 0.5 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 48.257 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

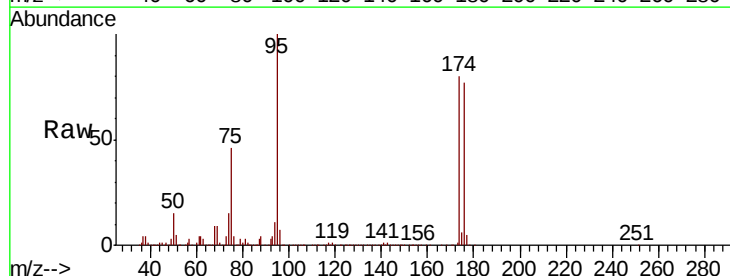
Tgt Ion: 95 Resp: 478219

Ion Ratio Lower Upper

95 100

174 87.8 0.0 187.0

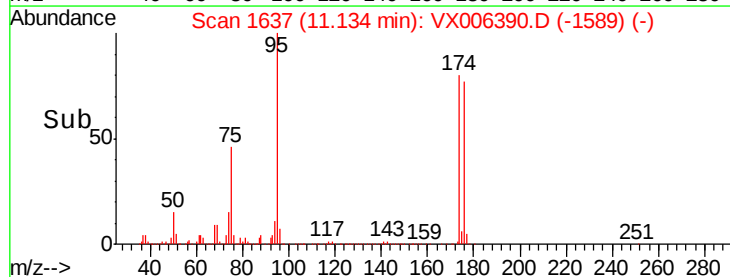
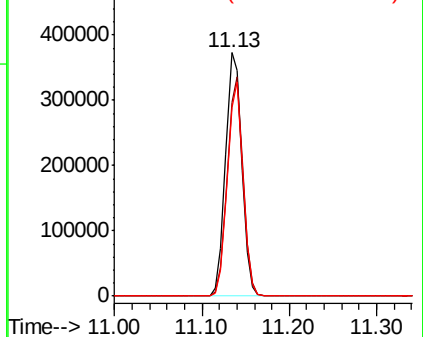
176 85.0 0.0 181.8

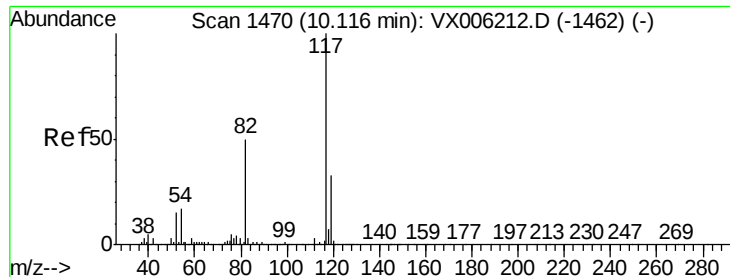


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

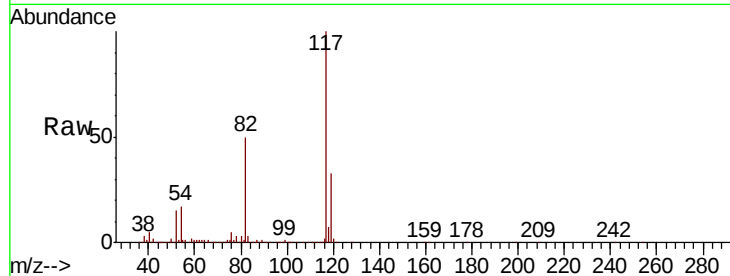




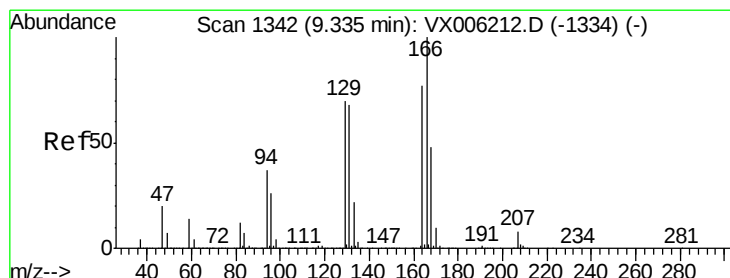
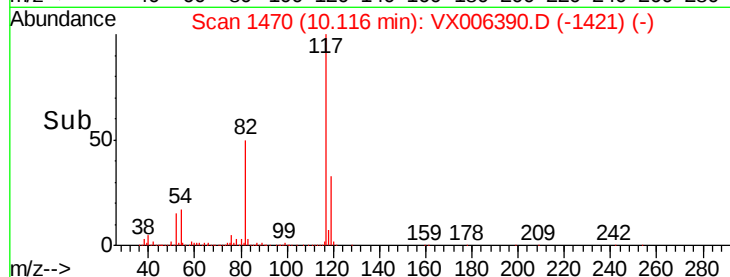
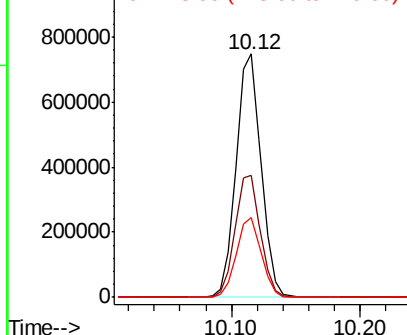
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX006390.D
Acq: 11 Dec 2018 01:05

Instrument :
MSVOA_X
ClientSampleId :
RE-120D2-20181205

Tot Ion:117 Resp: 1006453
Ion Ratio Lower Upper
117 100
82 50.0 39.6 59.4
119 32.7 26.3 39.5

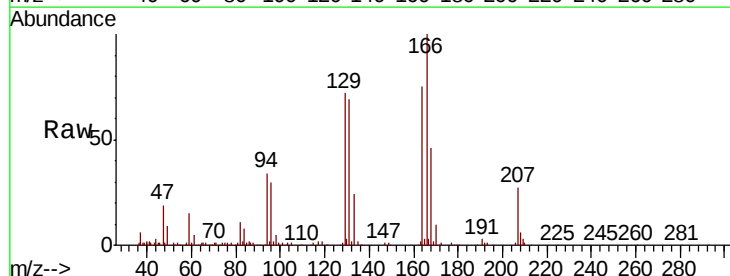


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX
Ion 118.90 (118.60 to 119.60): V

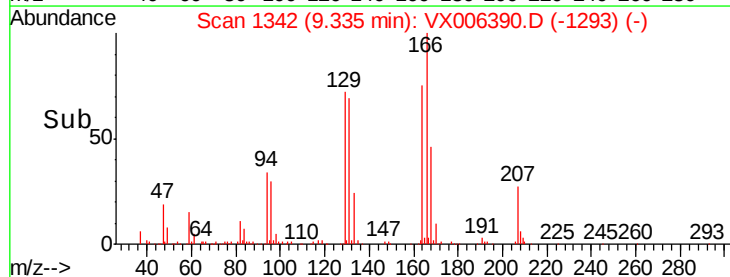
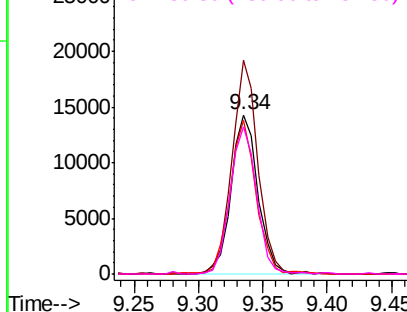


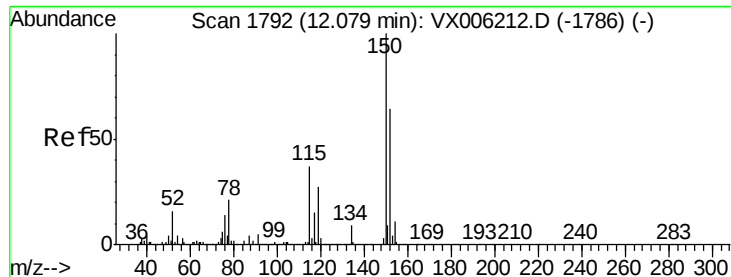
#64
Tetrachloroethene
Concen: 2.740 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX006390.D
Acq: 11 Dec 2018 01:05

Tgt Ion:164 Resp: 20768
Ion Ratio Lower Upper
164 100
166 134.2 104.2 156.2
129 96.5 72.6 108.8
131 92.7 70.3 105.5



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: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

Instrument :

MSVOA_X

ClientSampleId :

RE-120D2-20181205

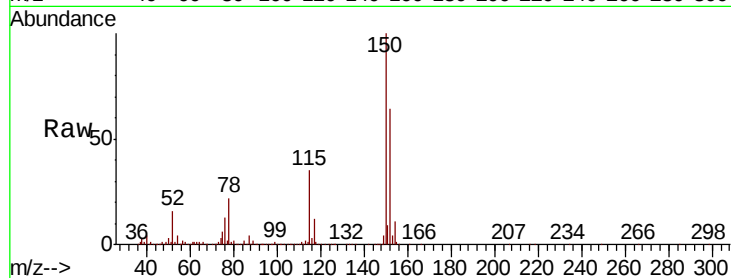
Tot Ion:152 Resp: 477622

Ion Ratio Lower Upper

152 100

115 55.6 39.0 116.9

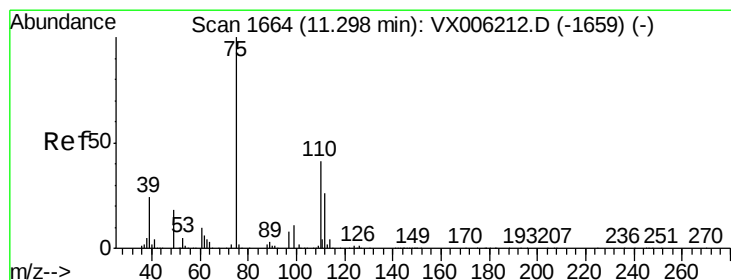
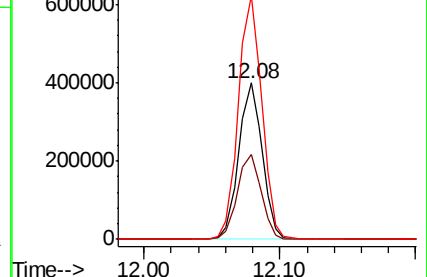
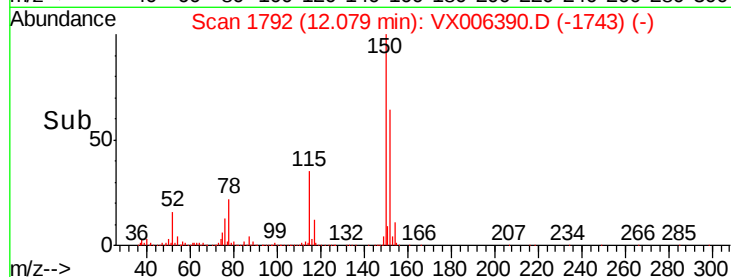
150 156.6 0.0 345.8



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: 23.572 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006390.D

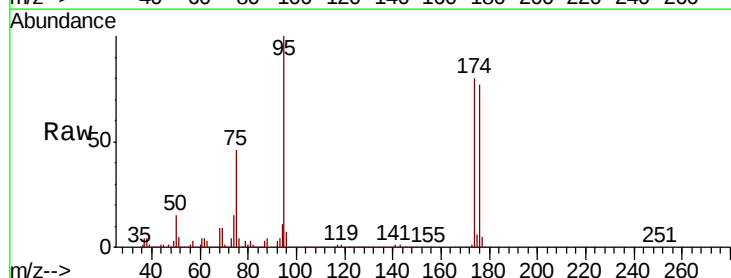
Acq: 11 Dec 2018 01:05

Tgt Ion: 75 Resp: 217310

Ion Ratio Lower Upper

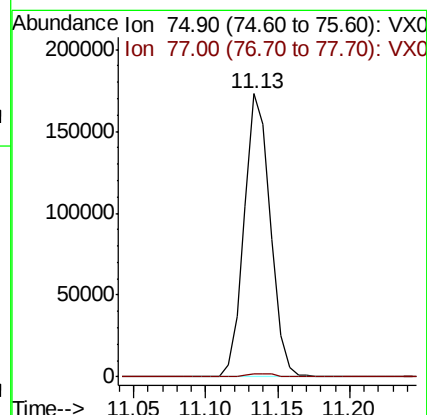
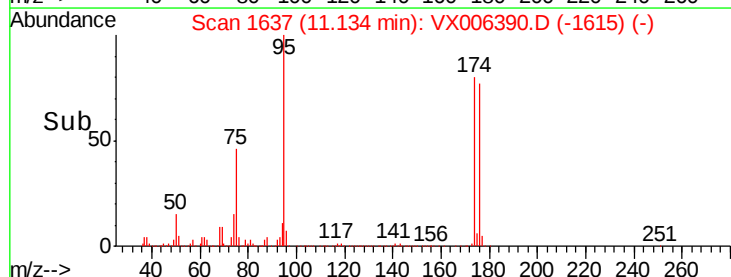
75 100

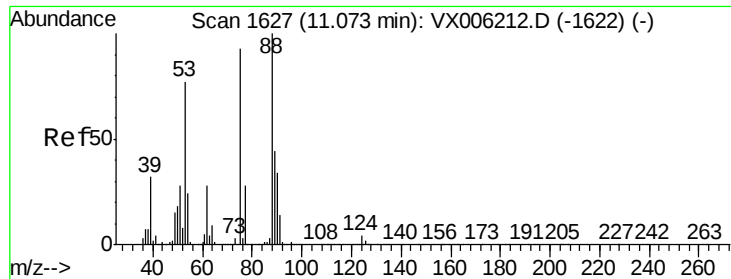
77 1.4 19.9 59.7#



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: 55.318 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006390.D

Acq: 11 Dec 2018 01:05

Instrument :

MSVOA_X

ClientSampleId :

RE-120D2-20181205

Tot Ion: 75 Resp: 217310

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.1 44.2 66.4#

