

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX121718\
 Data File : VX006571.D
 Acq On : 17 Dec 2018 14:32
 Operator : JC/MD
 Sample : J6405-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-20181210

Quant Time: Dec 18 00:39:26 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	679889	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1068015	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	975496	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	457312	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	371902	53.58	ug/l	0.00
Spiked Amount			Recovery	=	107.16%	
35) Dibromofluoromethane	5.50	113	324995	47.00	ug/l	0.00
Spiked Amount			Recovery	=	94.00%	
50) Toluene-d8	8.71	98	1266992	50.37	ug/l	0.00
Spiked Amount			Recovery	=	100.74%	
62) 4-Bromofluorobenzene	11.13	95	463900	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	

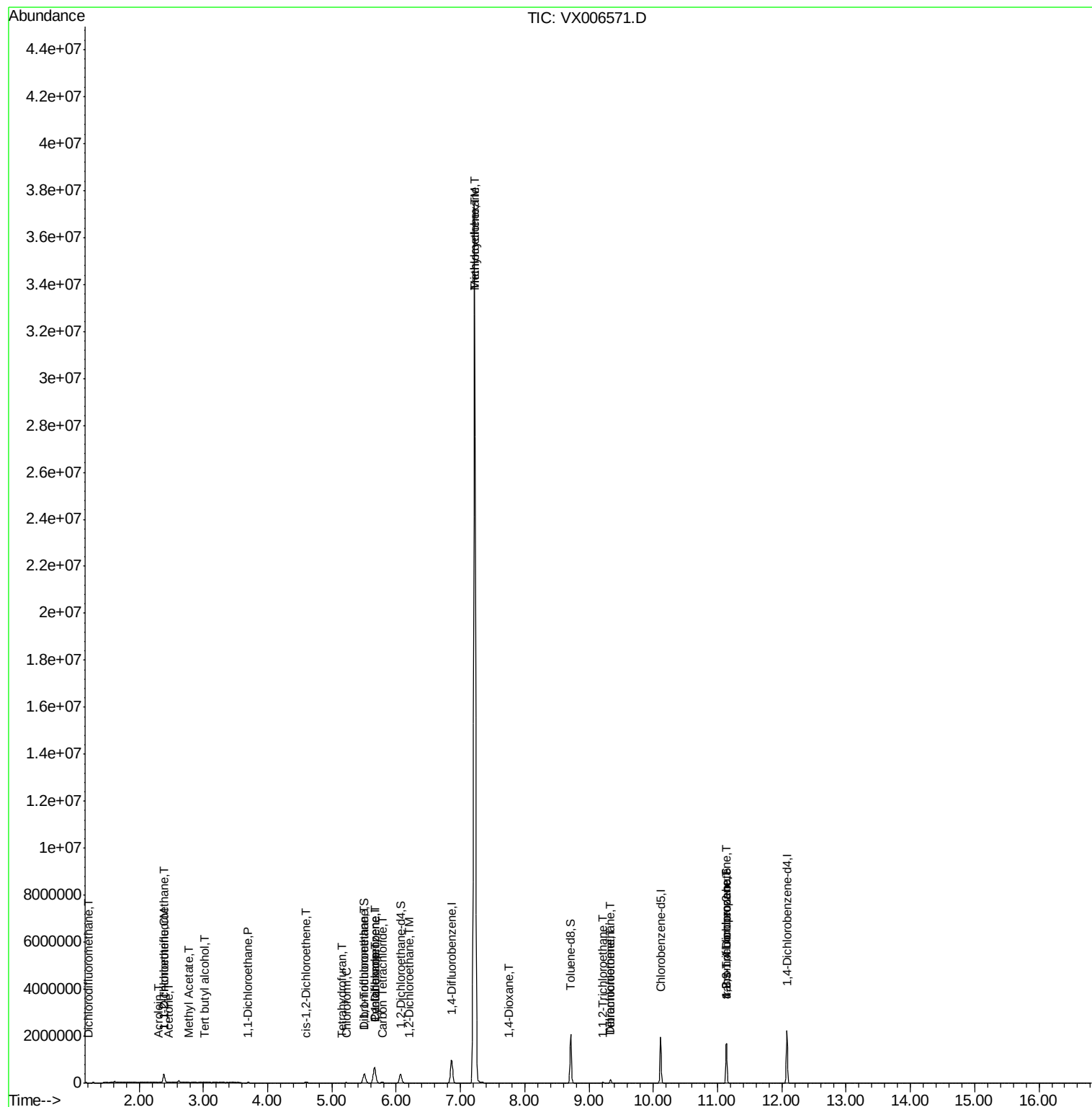
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	2128	0.320	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.39	101	107634	16.748	ug/l	98
11) Tert butyl alcohol	3.02	59	15017	7.912	ug/l #	77
12) 1,1-Dichloroethene	2.38	96	48607	7.901	ug/l	86
13) Acrolein	2.29	56	339	0.327	ug/l	99
16) Acetone	2.45	43	3737	1.147	ug/l #	66
18) Methyl Acetate	2.78	43	2963	0.272	ug/l #	79
24) 1,1-Dichloroethane	3.70	63	16148	1.488	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	27330	3.737	ug/l	91
29) Tetrahydrofuran	5.17	42	2433	0.753	ug/l #	72
30) Chloroform	5.21	83	14637	1.284	ug/l	98
31) Cyclohexane	5.67	56	11661	1.163	ug/l #	1
32) 1,1,1-Trichloroethane	5.50	97	5246	0.484	ug/l #	25
36) 1,1-Dichloropropene	5.66	75	45922	5.106	ug/l #	49
38) Carbon Tetrachloride	5.79	117	16850	1.593	ug/l #	91
39) Methylcyclohexane	7.22	83	171055	14.652	ug/l #	1
42) 1,2-Dichloroethane	6.21	62	3107	0.352	ug/l	80
44) Trichloroethene	7.22	130	14466424	1772.753	ug/l	92
49) 1,4-Dioxane	7.76	88	4158	20.651	ug/l #	83
55) 1,1,2-Trichloroethane	9.21	97	6888	0.957	ug/l	93
60) Dibromochloromethane	9.34	129	22870	2.576	ug/l #	11
64) Tetrachloroethene	9.34	164	25311	3.445	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	216532	24.531	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	216532	57.568	ug/l #	15

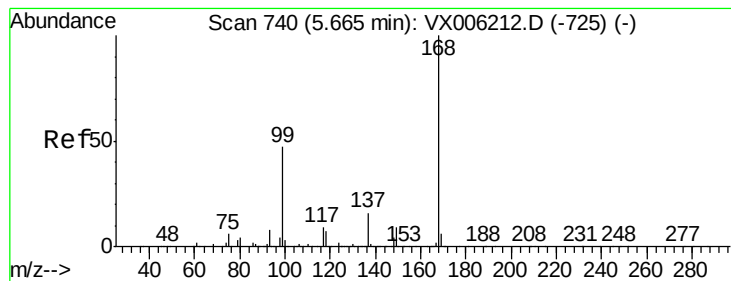
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

ClientSampleId :

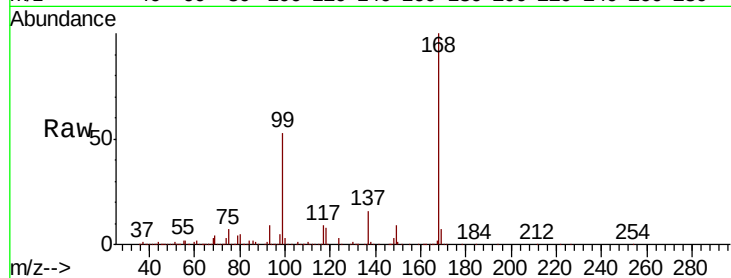
RE105D2-20181210

Tot Ion:168 Resp: 679889

Ion Ratio Lower Upper

168 100

99 53.4 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

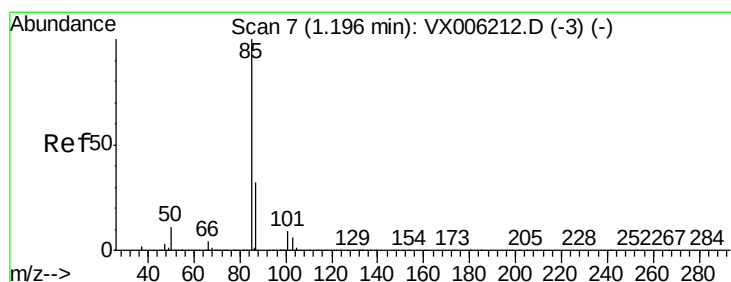
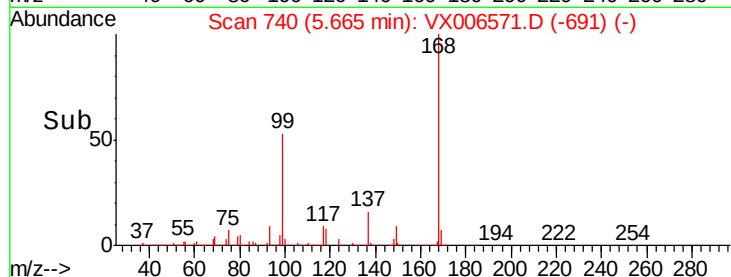
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.320 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX006571.D

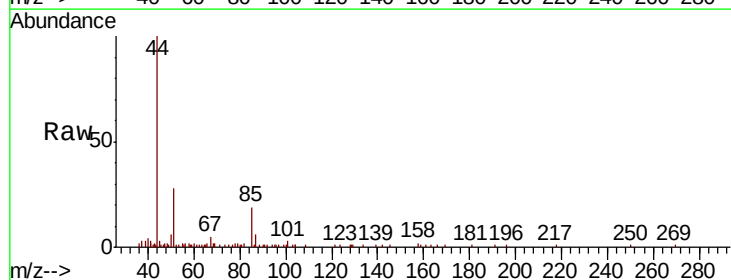
Acq: 17 Dec 2018 14:32

Tgt Ion: 85 Resp: 2128

Ion Ratio Lower Upper

85 100

87 30.4 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

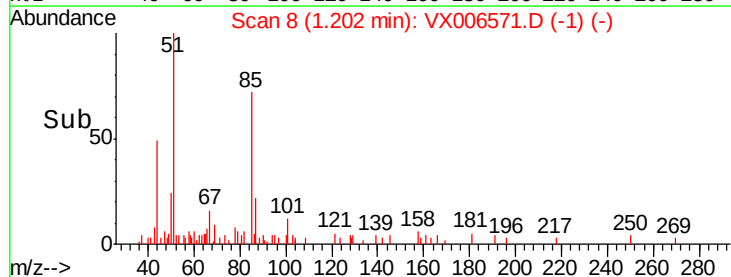
1500

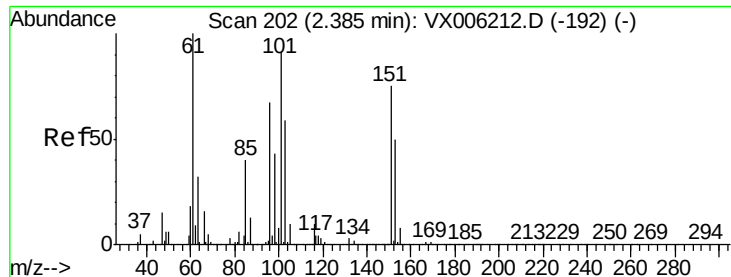
1000

500

0

Time--> 1.15 1.20 1.25





#9

1,1,2-Trichlorotrifluoroethane

Concen: 16.748 ug/l

RT: 2.39 min Scan# 202

Delta R.T. -0.00 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20181210

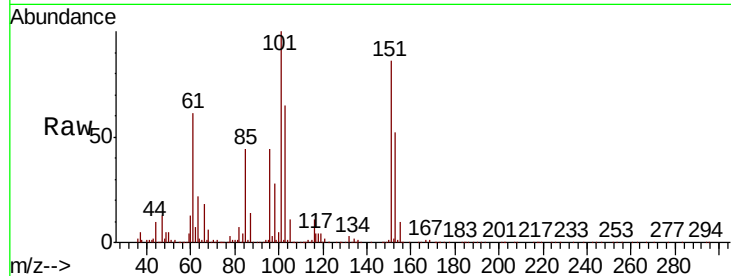
Tot Ion:101 Resp: 107634

Ion Ratio Lower Upper

101 100

85 42.7 35.5 53.3

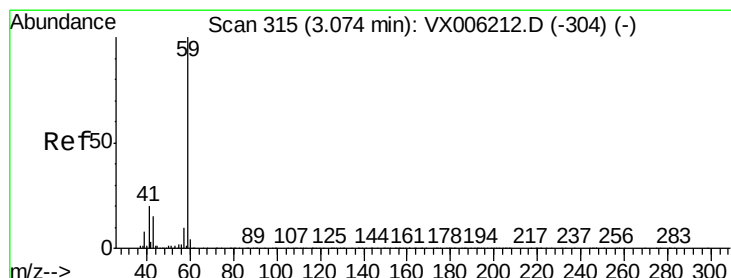
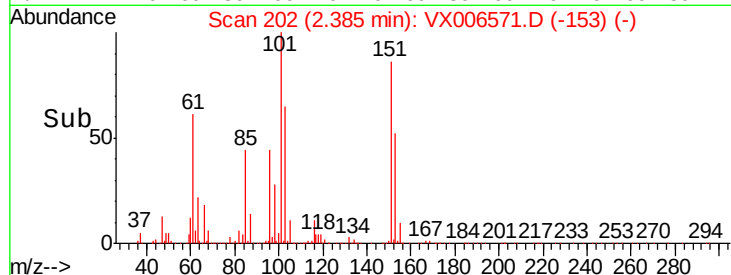
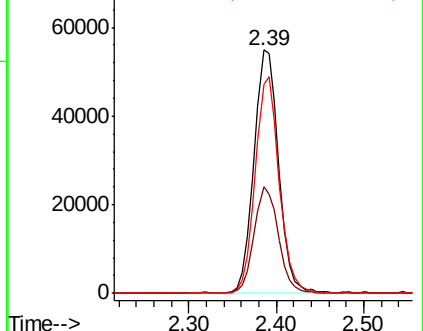
151 86.7 68.6 103.0



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



#11

Tert butyl alcohol

Concen: 7.912 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX006571.D

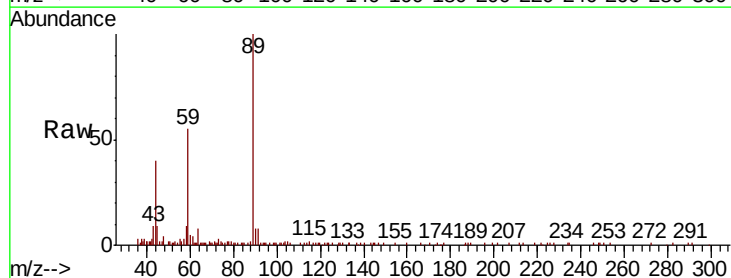
Acq: 17 Dec 2018 14:32

Tgt Ion: 59 Resp: 15017

Ion Ratio Lower Upper

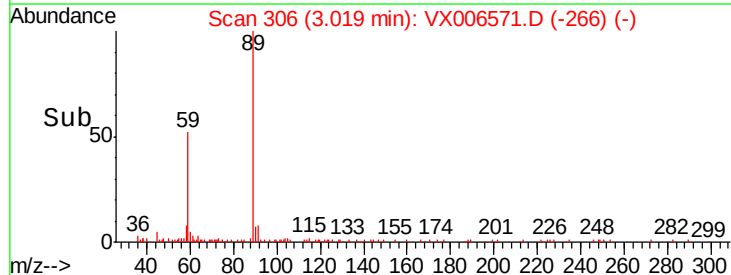
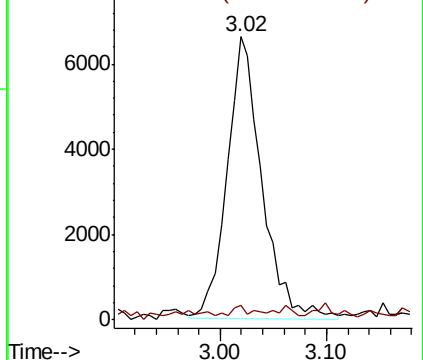
59 100

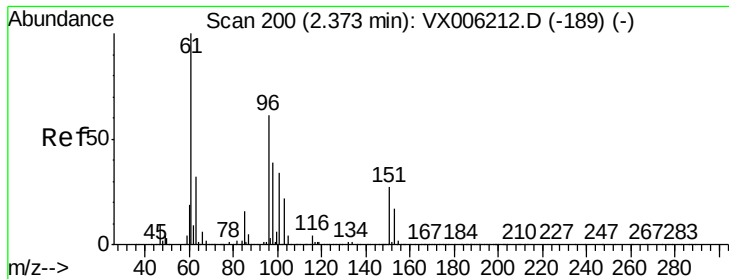
57 1.5 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

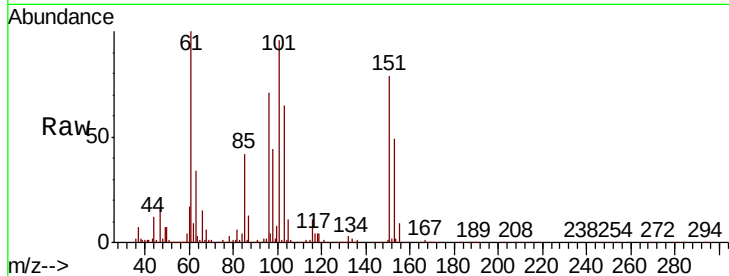




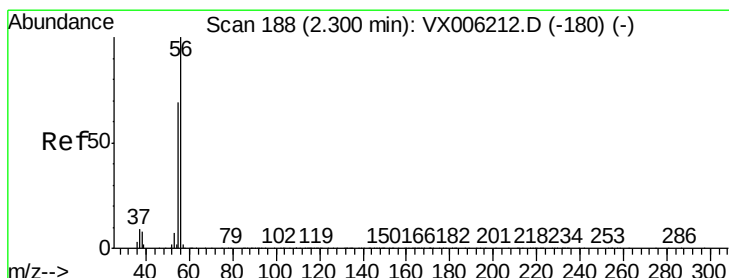
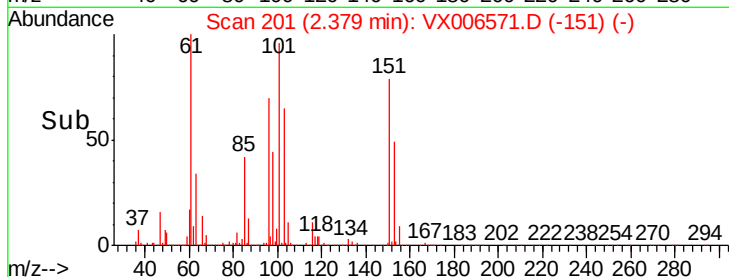
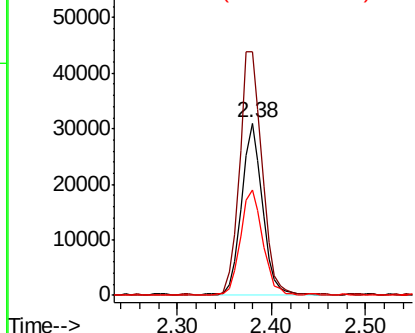
#12
 1,1-Dichloroethene
 Concen: 7.901 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. 0.01 min
 Lab File: VX006571.D
 Acq: 17 Dec 2018 14:32

Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-20181210

Tot Ion: 96 Resp: 48607
 Ion Ratio Lower Upper
 96 100
 61 140.8 131.7 197.5
 98 61.3 51.8 77.6

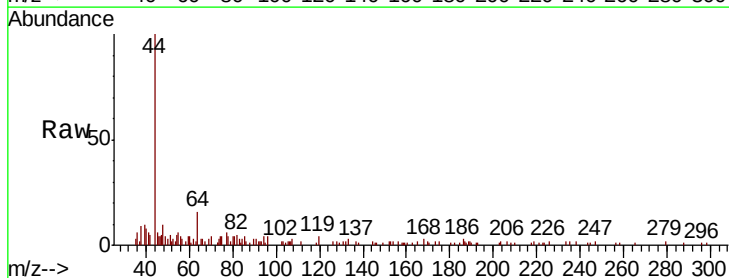


Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0

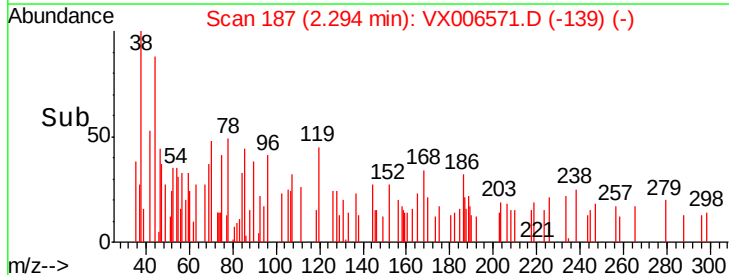
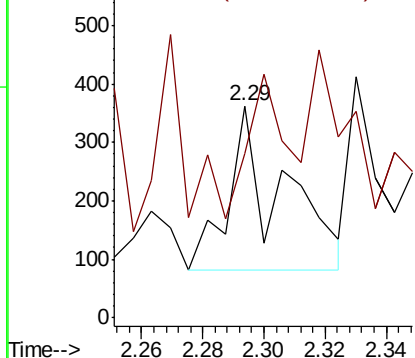


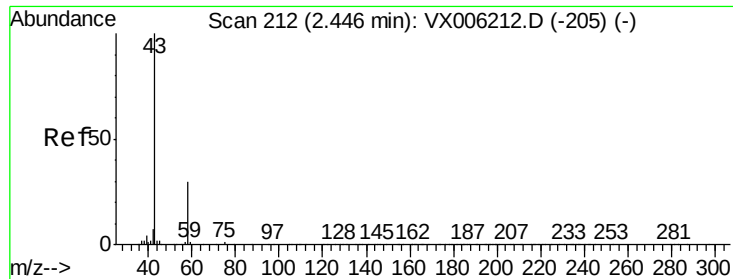
#13
 Acrolein
 Concen: 0.327 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. -0.01 min
 Lab File: VX006571.D
 Acq: 17 Dec 2018 14:32

Tgt Ion: 56 Resp: 339
 Ion Ratio Lower Upper
 56 100
 55 71.7 57.8 86.6



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 55.00 (54.70 to 55.70): VX0

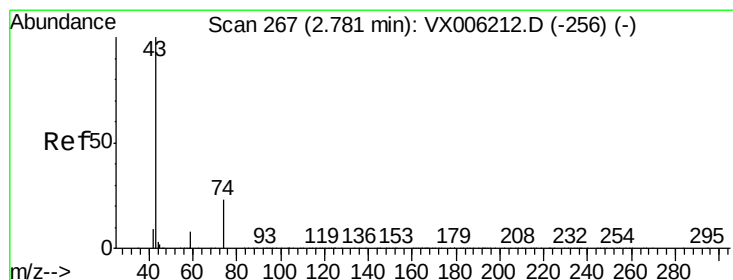
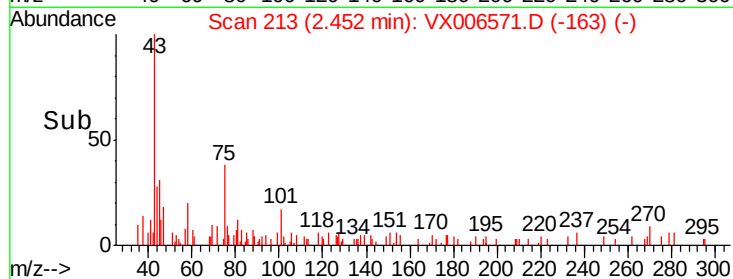
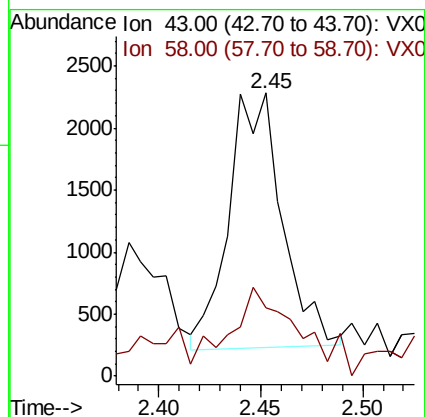
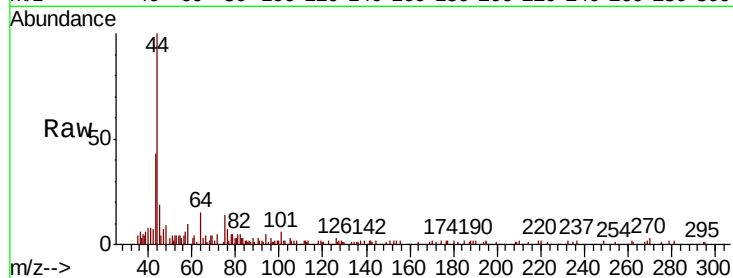




#16
Acetone
Concen: 1.147 ug/l
RT: 2.45 min Scan# 213
Delta R.T. 0.01 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

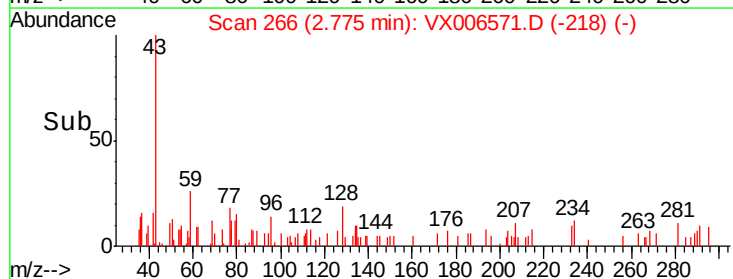
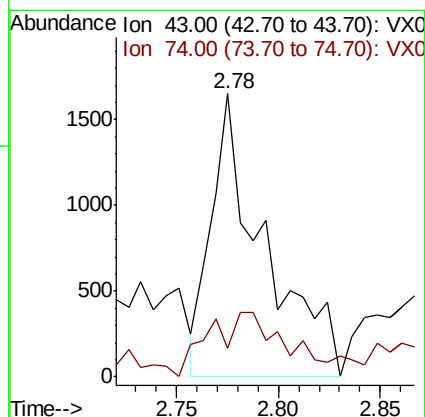
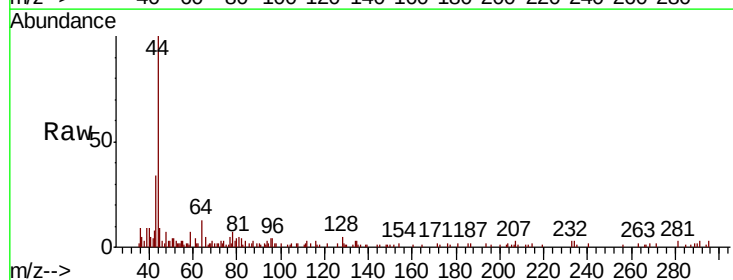
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20181210

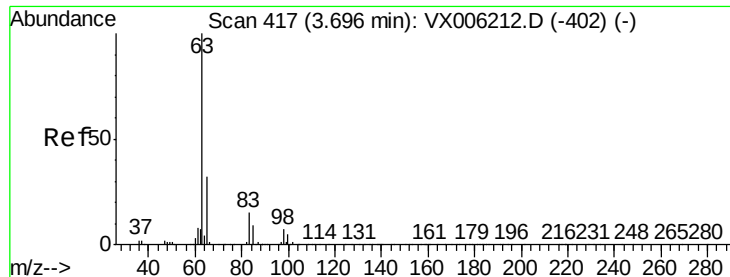
Tot Ion: 43 Resp: 3737
Ion Ratio Lower Upper
43 100
58 11.8 24.0 36.0#



#18
Methyl Acetate
Concen: 0.272 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

Tgt Ion: 43 Resp: 2963
Ion Ratio Lower Upper
43 100
74 32.7 17.9 26.9#





#24

1,1-Dichloroethane

Concen: 1.488 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

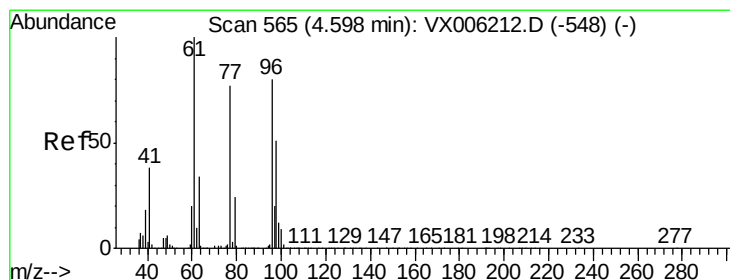
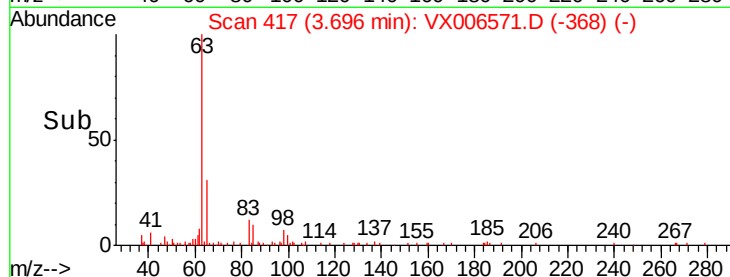
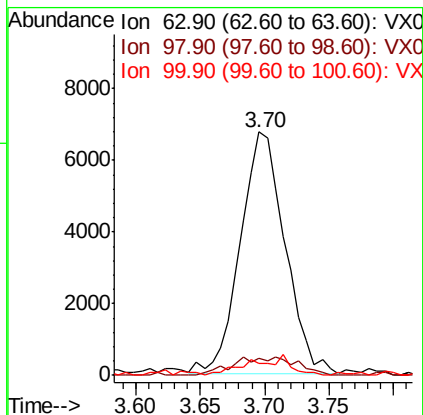
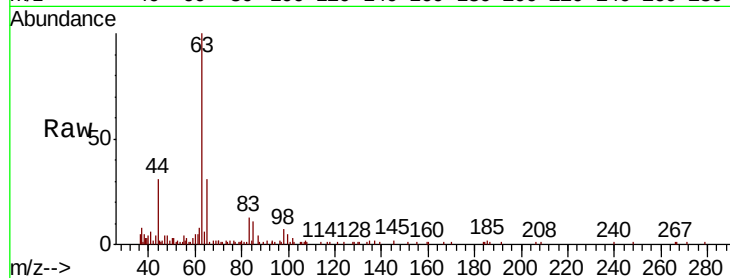
Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20181210

Tot Ion:	63	Resp:	16148
Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.8	11.4
100	3.7	2.5	7.4



#27

cis-1,2-Dichloroethene

Concen: 3.737 ug/l

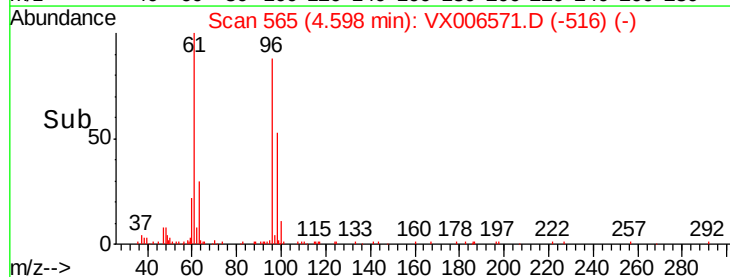
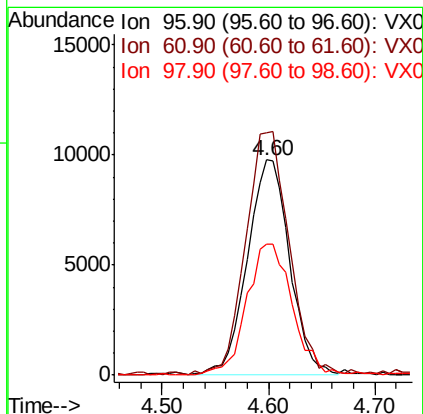
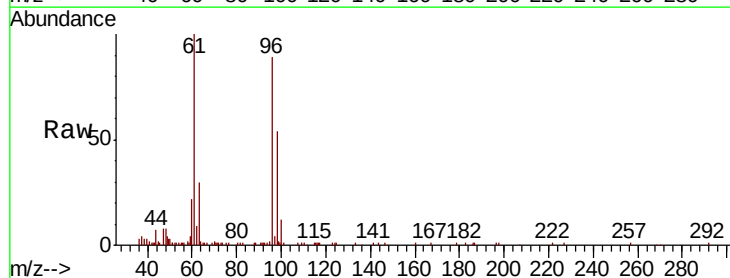
RT: 4.60 min Scan# 565

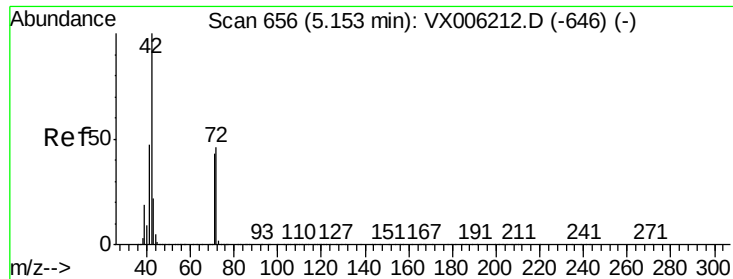
Delta R.T. -0.00 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Tgt Ion:	96	Resp:	27330
Ion	Ratio	Lower	Upper
96	100		
61	115.9	0.0	265.0
98	65.1	0.0	130.2





#29

Tetrahydrofuran

Concen: 0.753 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20181210

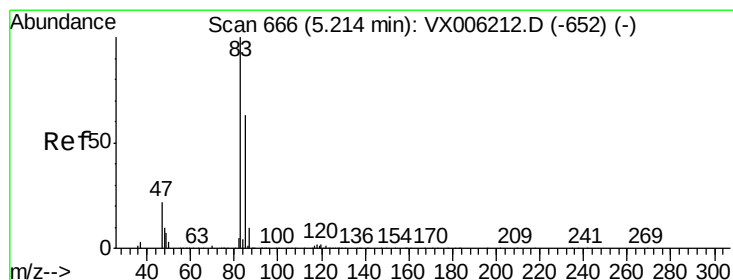
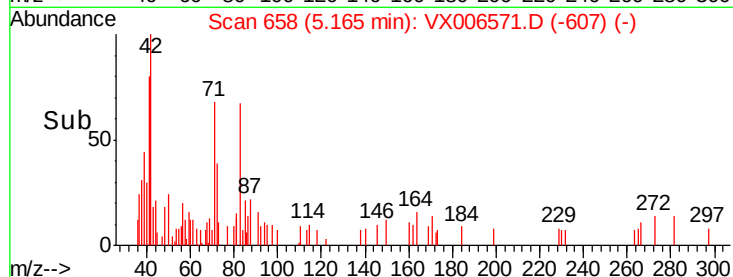
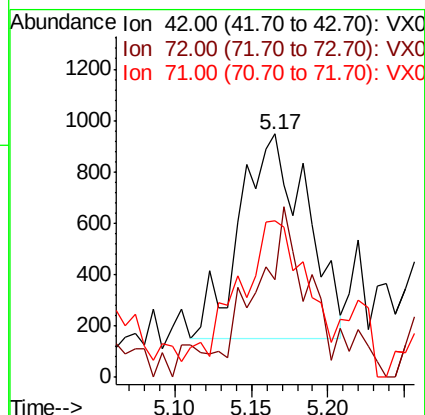
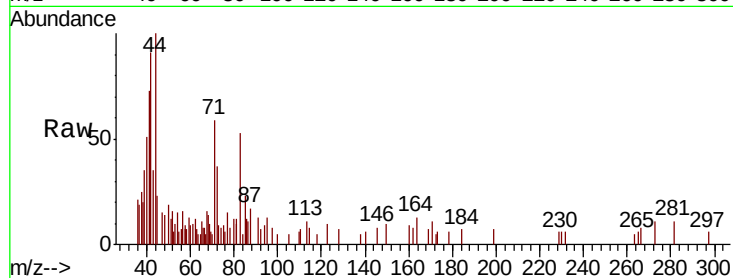
Tot Ion: 42 Resp: 2433

Ion Ratio Lower Upper

42 100

72 48.1 37.8 56.8

71 81.3 35.2 52.8#



#30

Chloroform

Concen: 1.284 ug/l

RT: 5.21 min Scan# 666

Delta R.T. -0.00 min

Lab File: VX006571.D

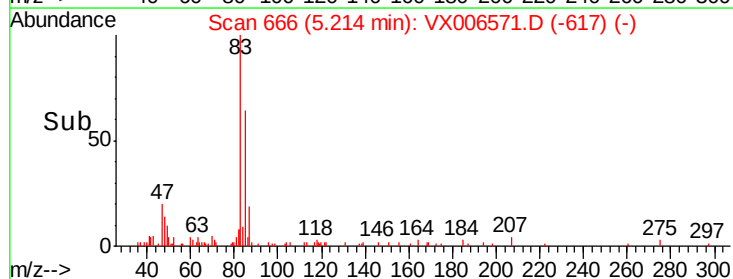
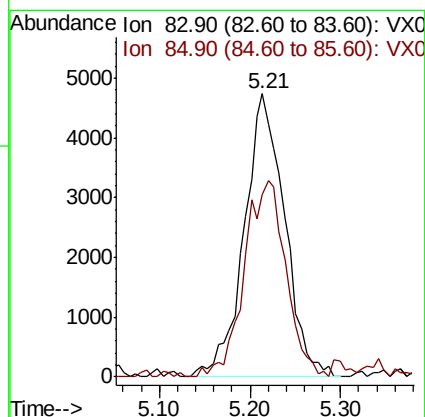
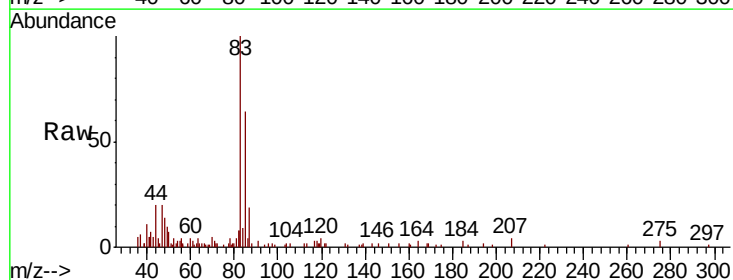
Acq: 17 Dec 2018 14:32

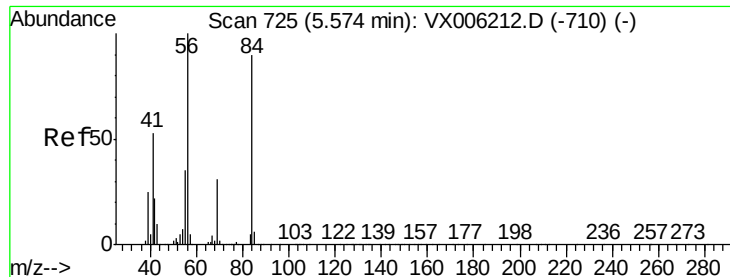
Tgt Ion: 83 Resp: 14637

Ion Ratio Lower Upper

83 100

85 64.4 50.3 75.5

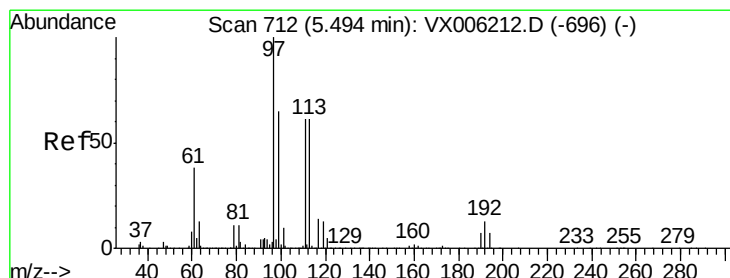
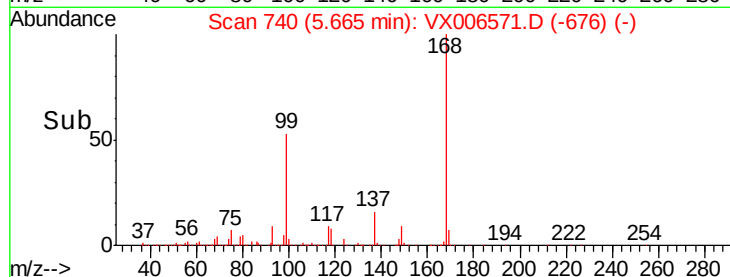
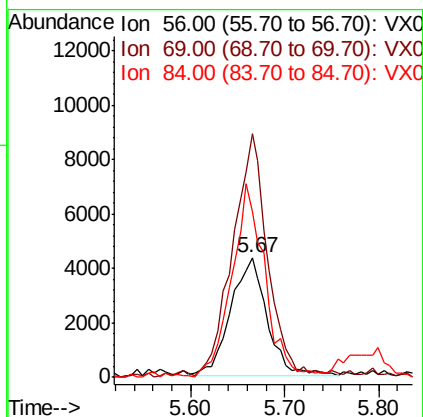
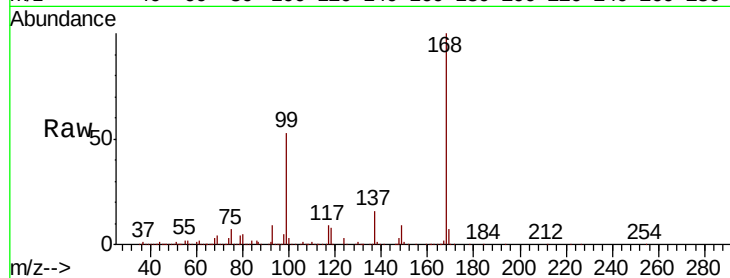




#31
Cyclohexane
Concen: 1.163 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

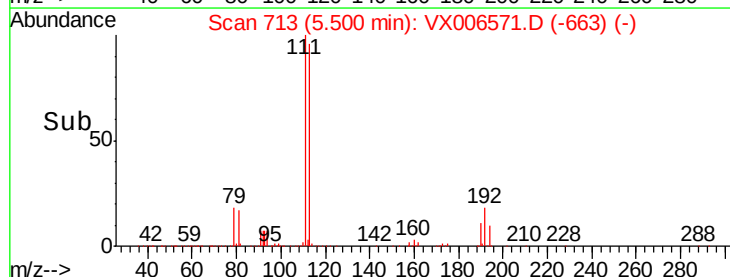
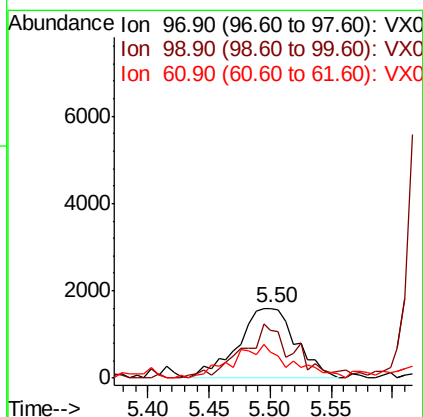
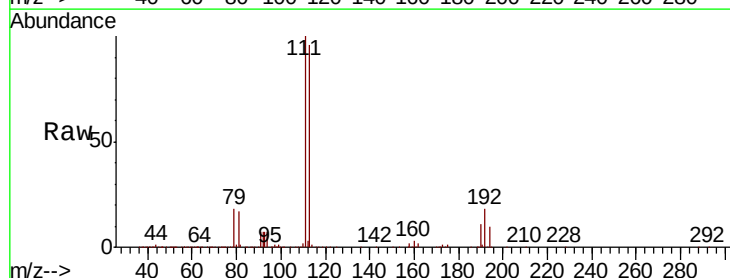
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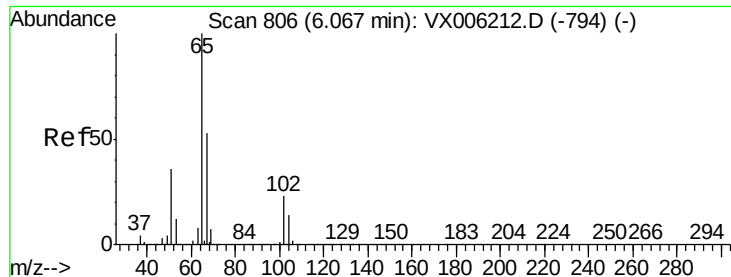
Tot Ion: 56 Resp: 11661
Ion Ratio Lower Upper
56 100
69 203.6 24.5 36.7#
84 138.6 71.8 107.6#



#32
1,1,1-Trichloroethane
Concen: 0.484 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

Tgt Ion: 97 Resp: 5246
Ion Ratio Lower Upper
97 100
99 0.0 51.6 77.4#
61 0.0 30.6 46.0#

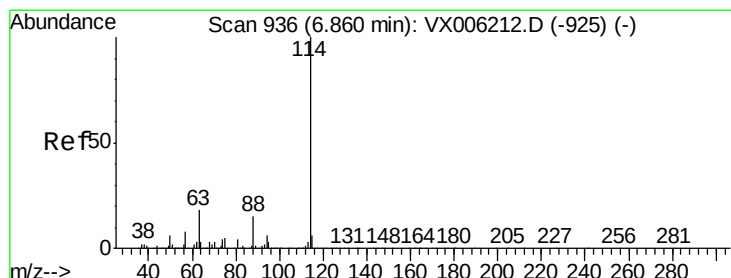
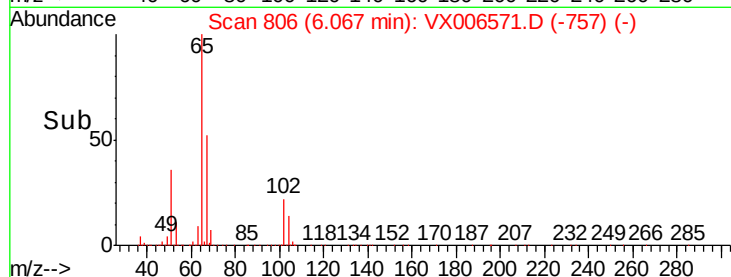
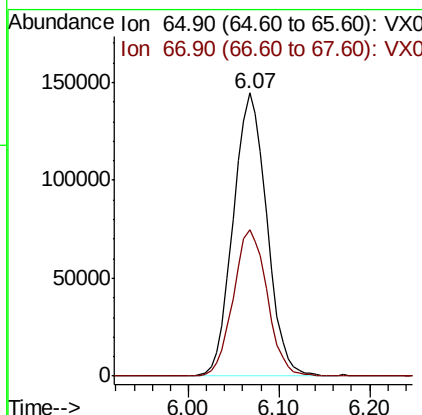
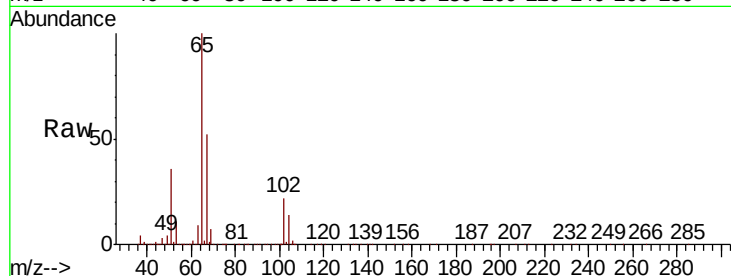




#33
 1,2-Dichloroethane-d4
 Concen: 53.584 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX006571.D
 Acq: 17 Dec 2018 14:32

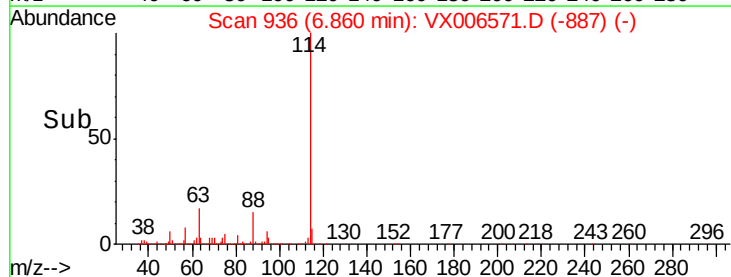
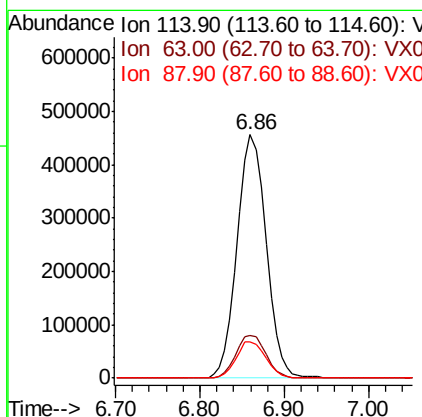
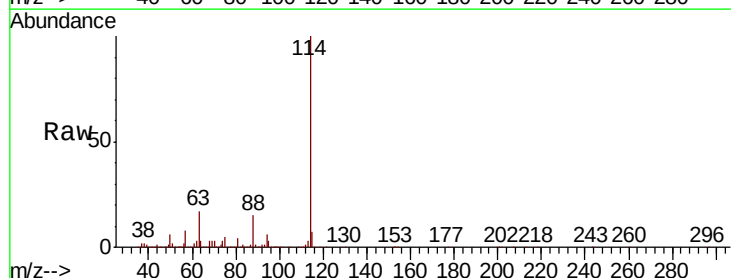
Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-20181210

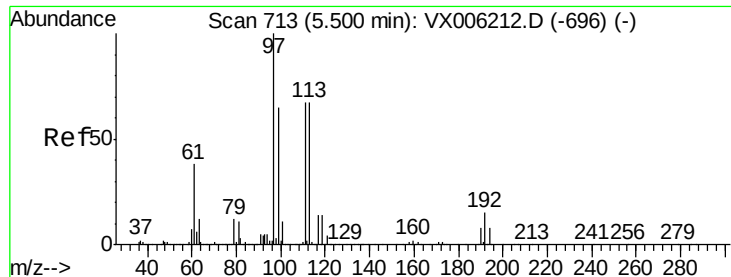
Tot Ion: 65 Resp: 371902
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX006571.D
 Acq: 17 Dec 2018 14:32

Tgt Ion: 114 Resp: 1068015
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 36.6
 88 14.8 0.0 29.0

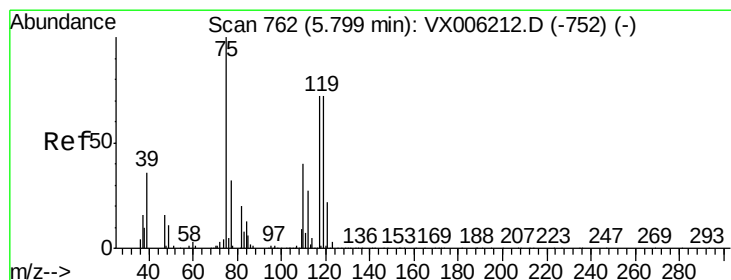
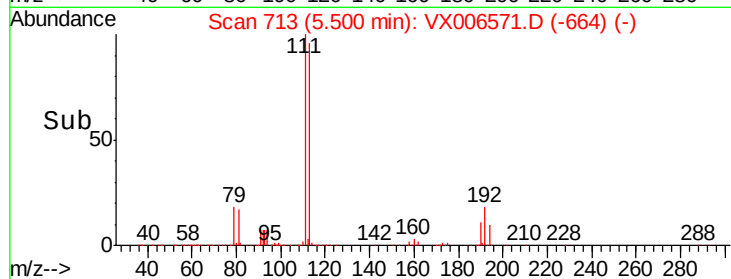
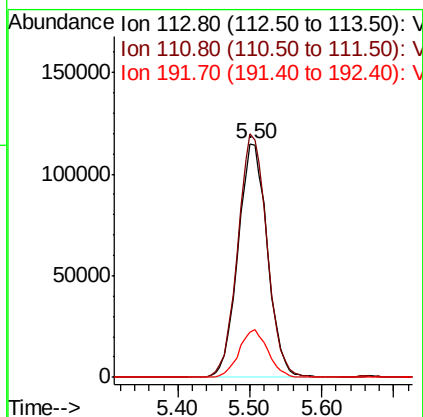
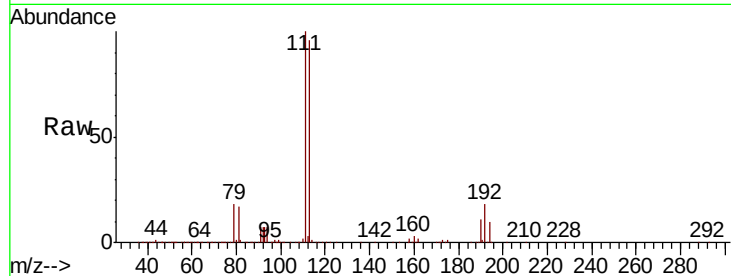




#35
 Dibromofluoromethane
 Concen: 46.999 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX006571.D
 Acq: 17 Dec 2018 14:32

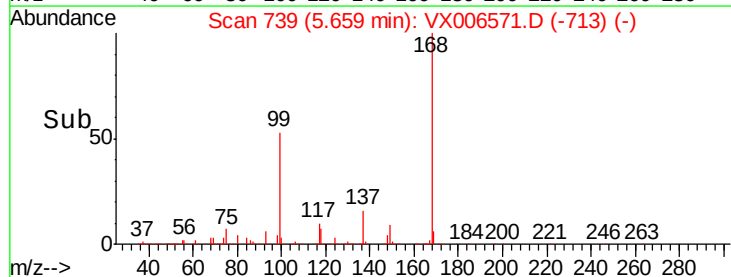
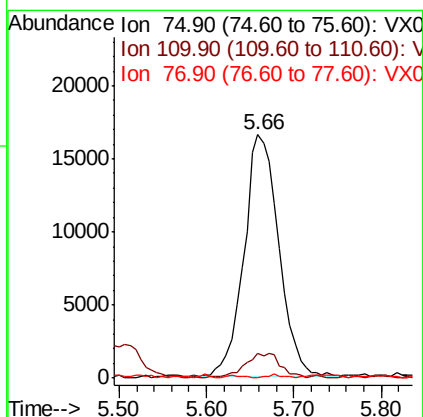
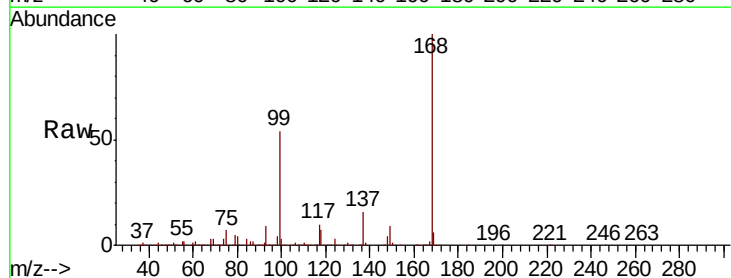
Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-20181210

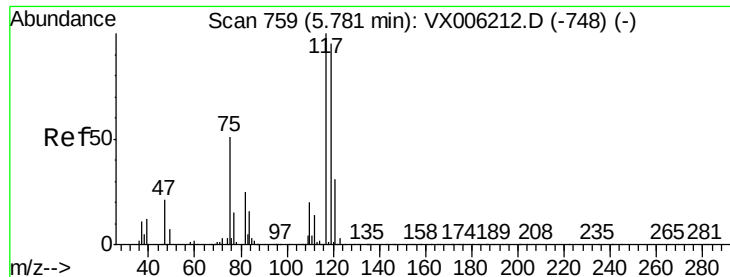
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.1	121.7
192	20.0	18.2	27.2



#36
 1,1-Dichloropropene
 Concen: 5.106 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX006571.D
 Acq: 17 Dec 2018 14:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	20.4	61.3#
77	0.6	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 1.593 ug/l

RT: 5.79 min Scan# 761

Delta R.T. 0.01 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20181210

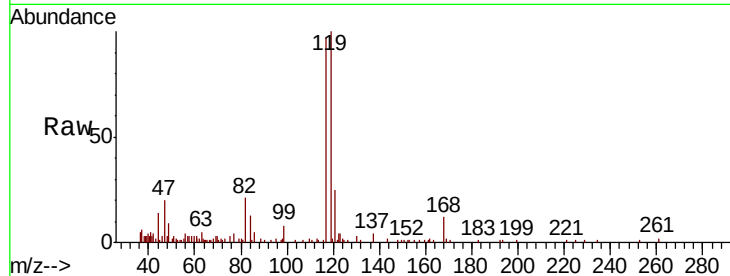
Tot Ion:117 Resp: 16850

Ion Ratio Lower Upper

117 100

119 101.8 75.8 113.8

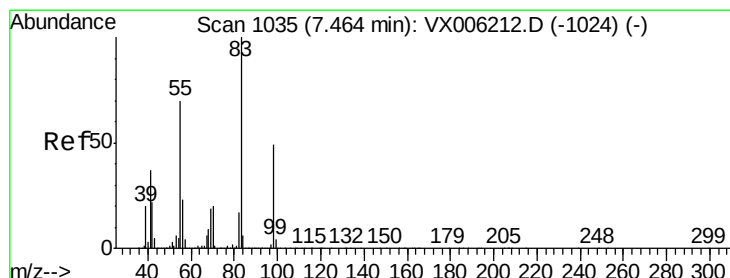
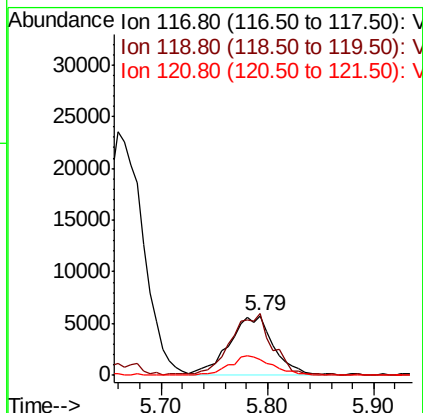
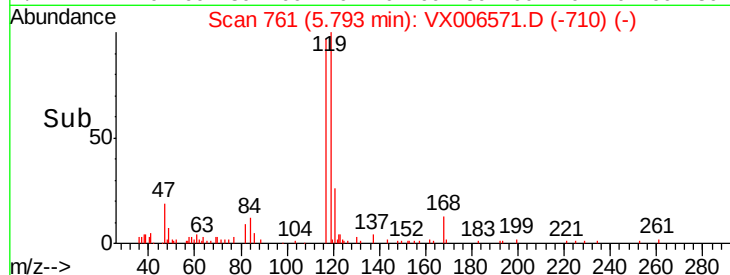
121 23.8 24.6 37.0#



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



#39

Methylcyclohexane

Concen: 14.652 ug/l

RT: 7.22 min Scan# 995

Delta R.T. -0.24 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

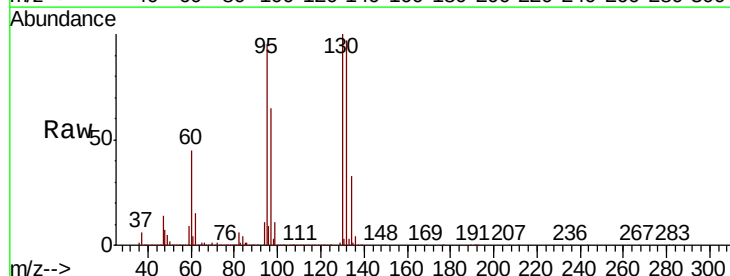
Tgt Ion: 83 Resp: 171055

Ion Ratio Lower Upper

83 100

55 0.0 56.4 84.6#

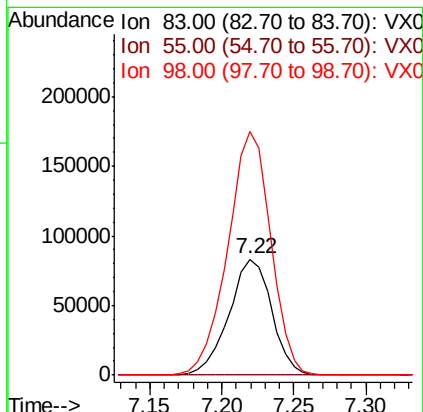
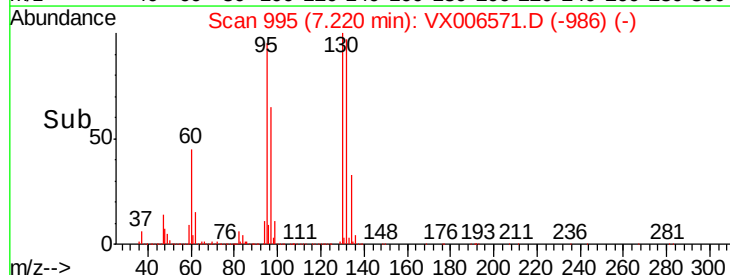
98 209.2 39.0 58.6#

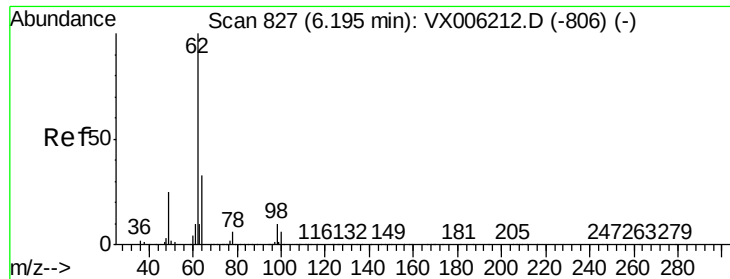


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#42

1,2-Dichloroethane

Concen: 0.352 ug/l

RT: 6.21 min Scan# 829

Delta R.T. 0.01 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

ClientSampleId :

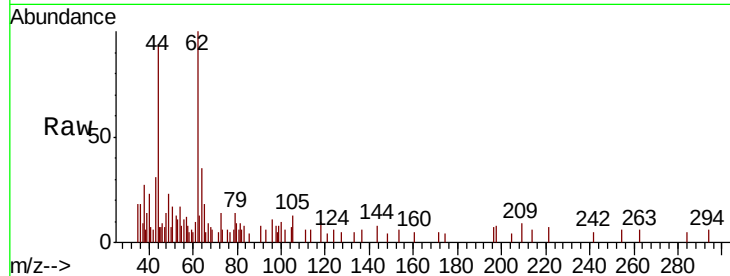
RE105D2-20181210

Tot Ion: 62 Resp: 3107

Ion Ratio Lower Upper

62 100

98 2.7 0.0 20.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

6.21

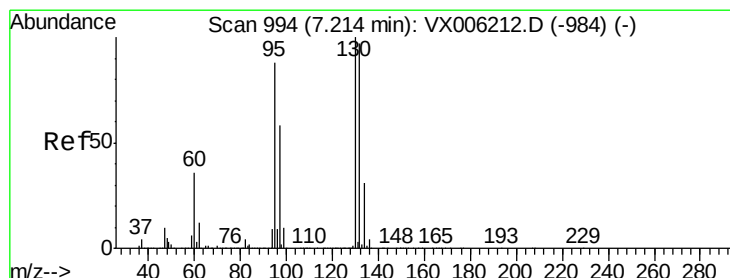
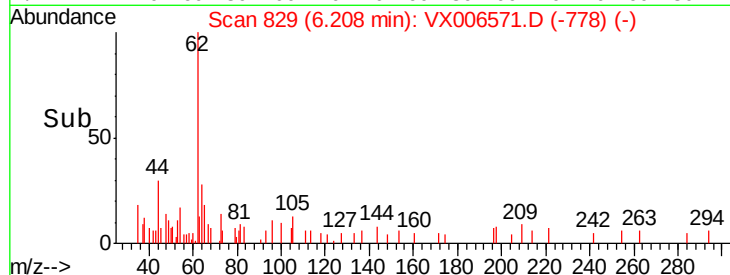
1000

500

0

6.15 6.20 6.25 6.30

Time-->



#44

Trichloroethene

Concen: 1772.753 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX006571.D

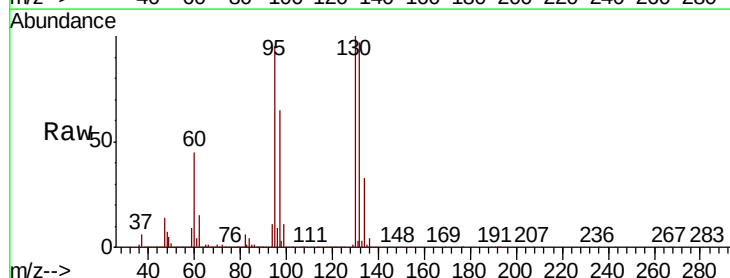
Acq: 17 Dec 2018 14:32

Tgt Ion:130 Resp:14466424

Ion Ratio Lower Upper

130 100

95 95.3 0.0 175.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

8000000

6000000

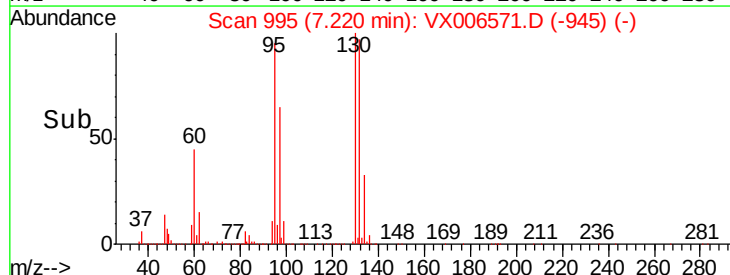
4000000

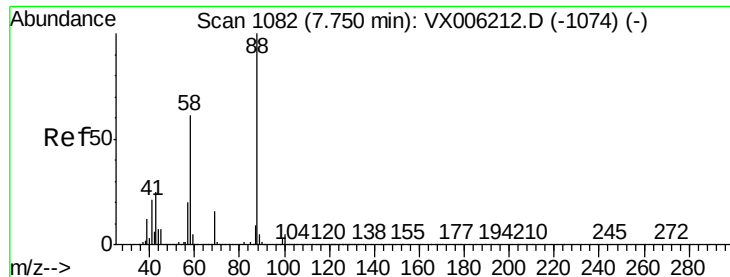
2000000

0

7.00 7.20 7.40

Time-->

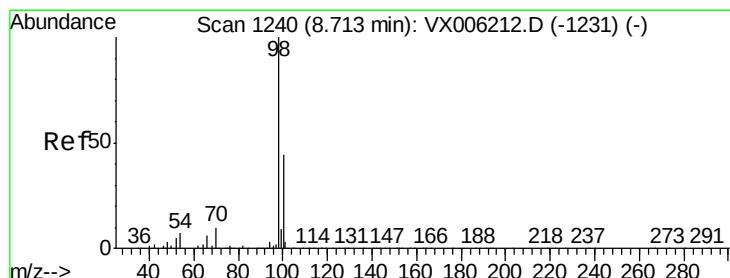
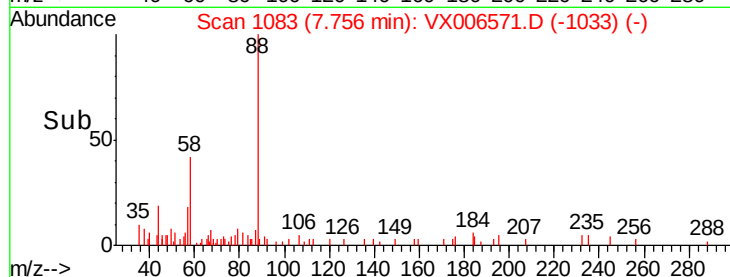
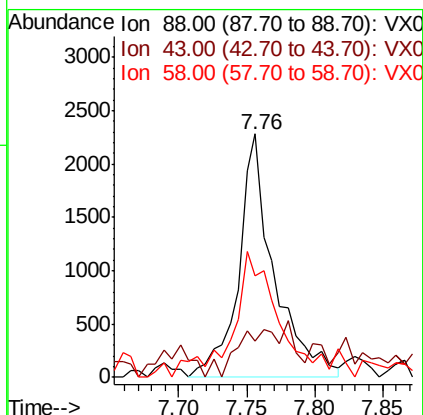
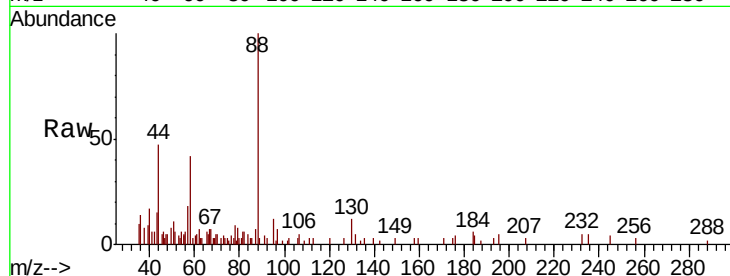




#49
1,4-Dioxane
Concen: 20.651 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

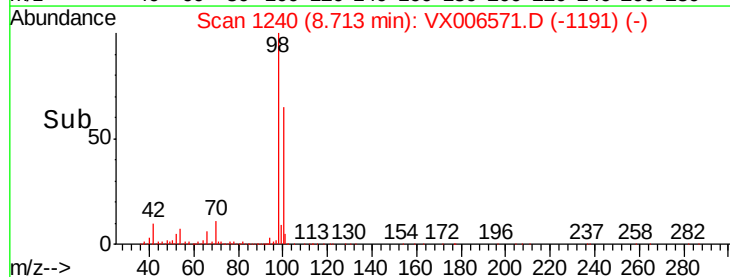
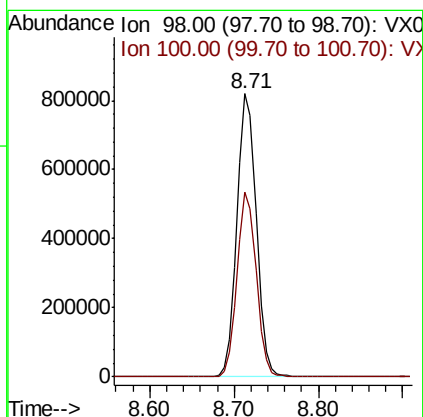
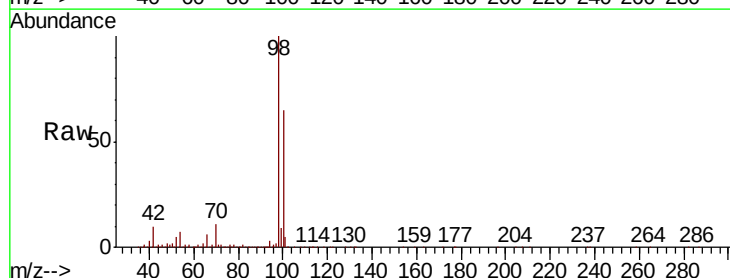
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20181210

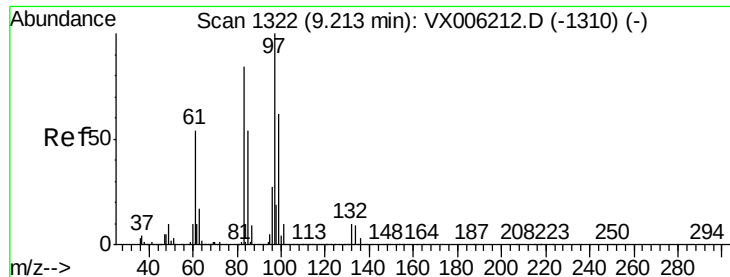
Tot Ion	Ratio	Lower	Upper
88	100		
43	0.0	23.2	34.8#
58	63.9	51.4	77.0



#50
Toluene-d8
Concen: 50.372 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.2

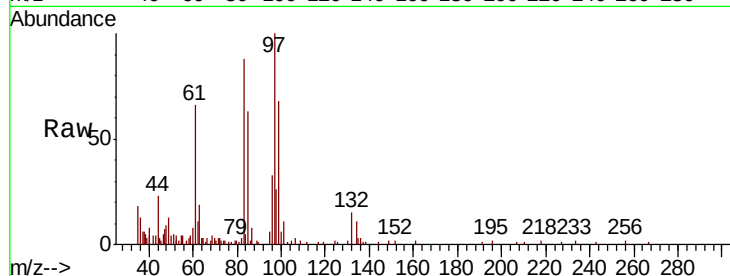




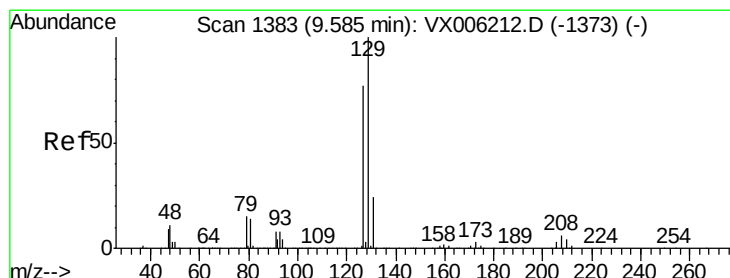
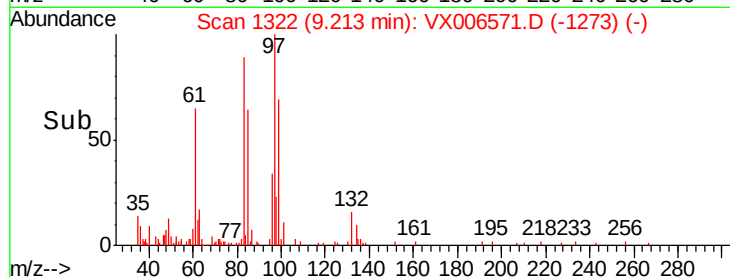
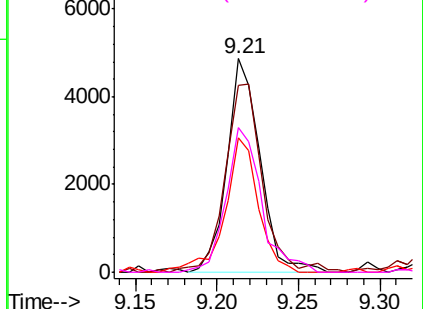
#55
 1,1,2-Trichloroethane
 Concen: 0.957 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VX006571.D
 Acq: 17 Dec 2018 14:32

Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-20181210

Tot Ion: 97 Resp: 6888
 Ion Ratio Lower Upper
 97 100
 83 86.5 67.1 100.7
 85 63.0 43.2 64.8
 99 68.0 49.8 74.6

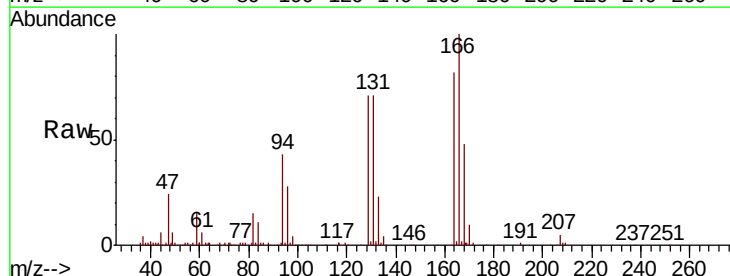


Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0

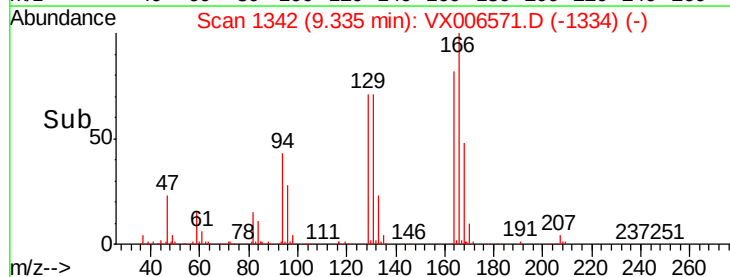
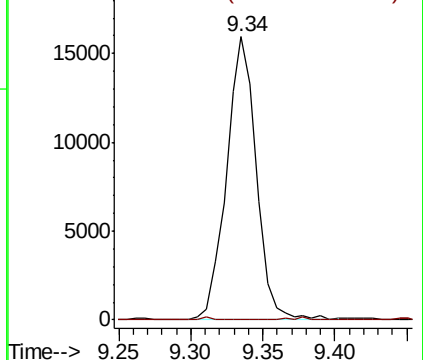


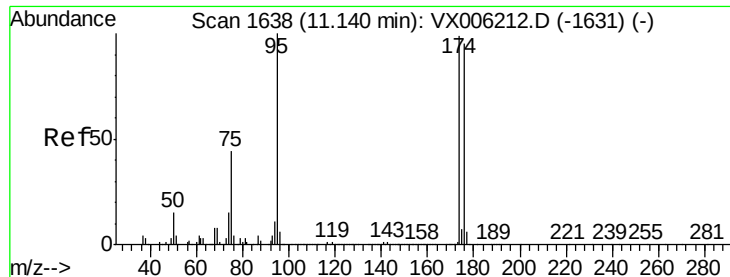
#60
 Dibromochloromethane
 Concen: 2.576 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.25 min
 Lab File: VX006571.D
 Acq: 17 Dec 2018 14:32

Tgt Ion: 129 Resp: 22870
 Ion Ratio Lower Upper
 129 100
 127 0.0 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: 48.944 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20181210

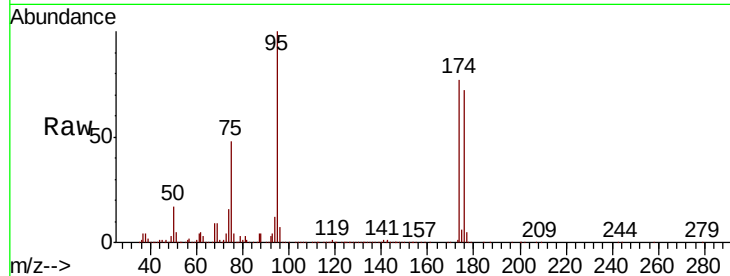
Tot Ion: 95 Resp: 463900

Ion Ratio Lower Upper

95 100

174 85.2 0.0 187.0

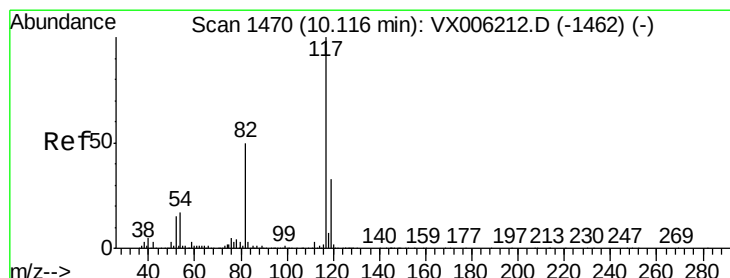
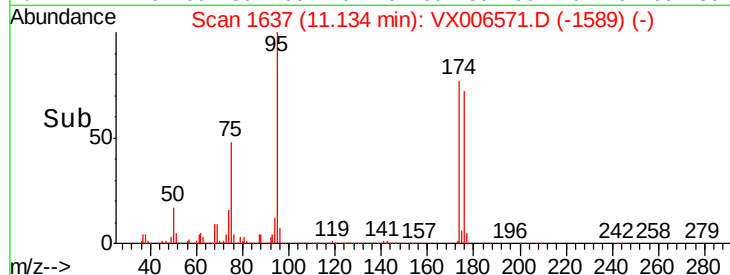
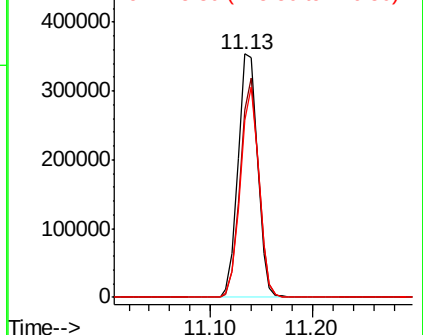
176 82.3 0.0 181.8



Abundance Ion 94.90 (94.60 to 95.60): VX006571.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX006571.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX006571.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

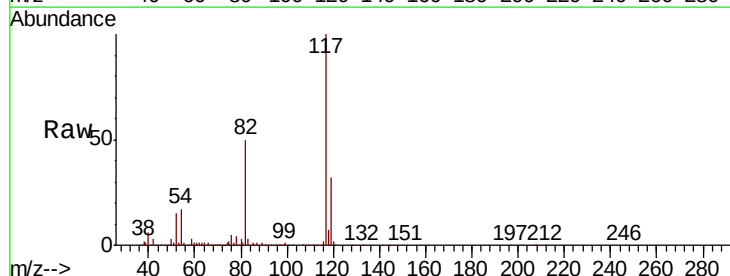
Tgt Ion: 117 Resp: 975496

Ion Ratio Lower Upper

117 100

82 50.0 39.6 59.4

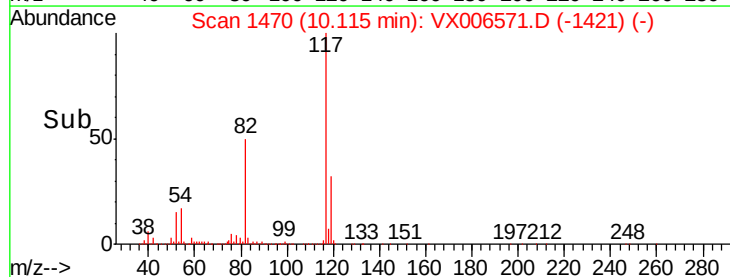
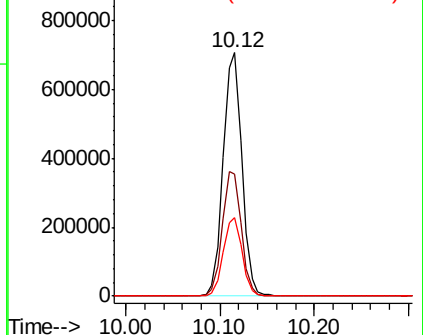
119 32.5 26.3 39.5

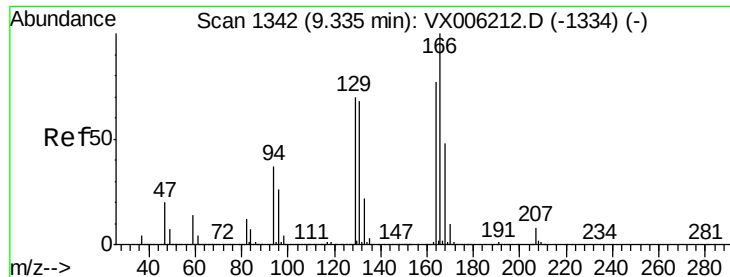


Abundance Ion 116.90 (116.60 to 117.60): VX006571.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX006571.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX006571.D (-1421) (-)

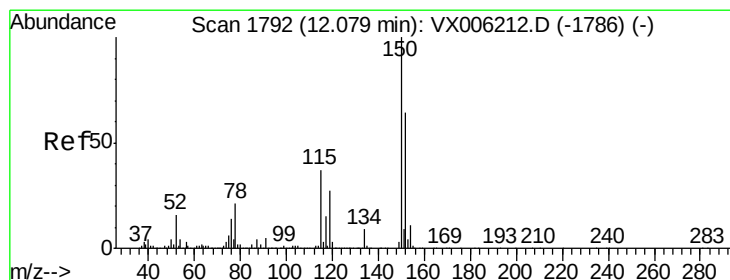
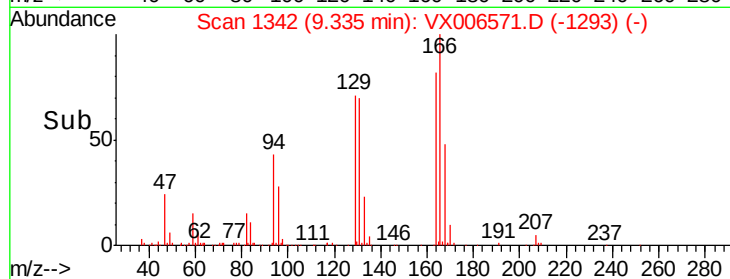
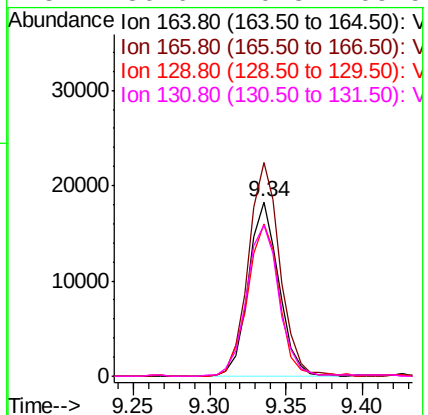
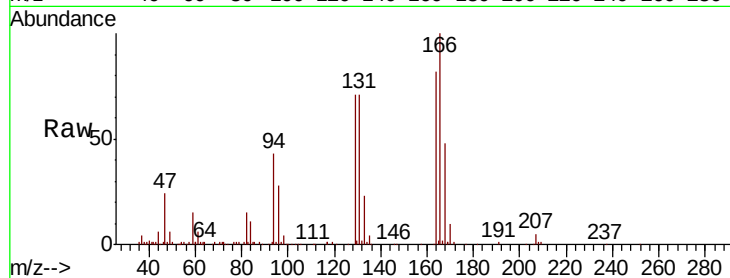




#64
Tetrachloroethene
Concen: 3.445 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

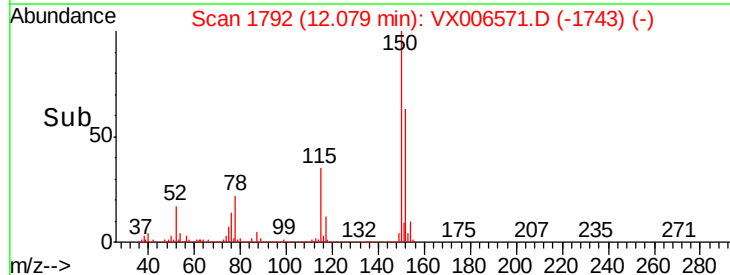
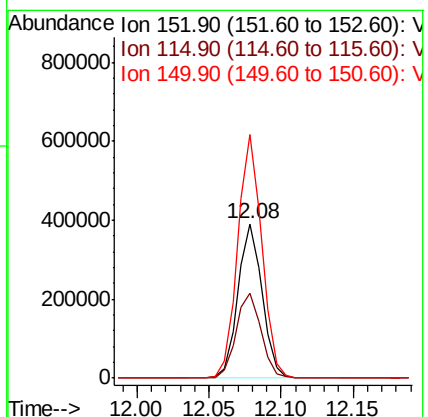
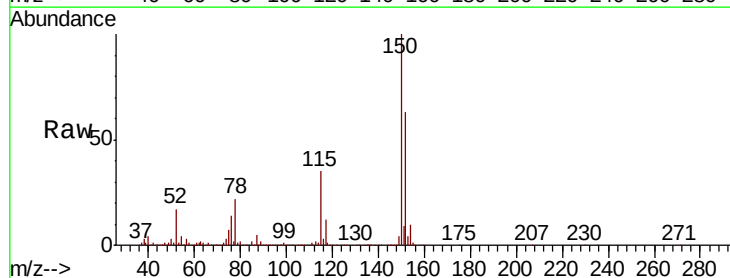
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20181210

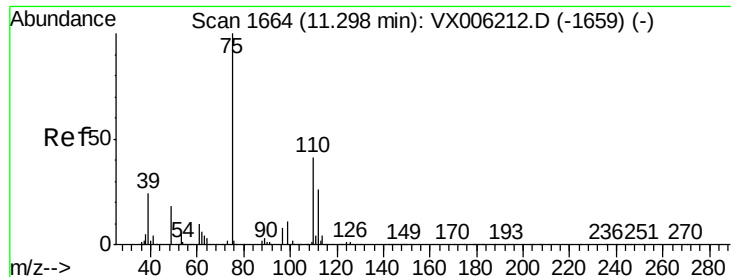
Tot Ion:164 Resp: 25311
Ion Ratio Lower Upper
164 100
166 122.6 104.2 156.2
129 86.8 72.6 108.8
131 86.6 70.3 105.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

Tgt Ion:152 Resp: 457312
Ion Ratio Lower Upper
152 100
115 57.0 39.0 116.9
150 157.5 0.0 345.8





#76

1,2,3-Trichloropropane

Concen: 24.531 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

ClientSampleId :

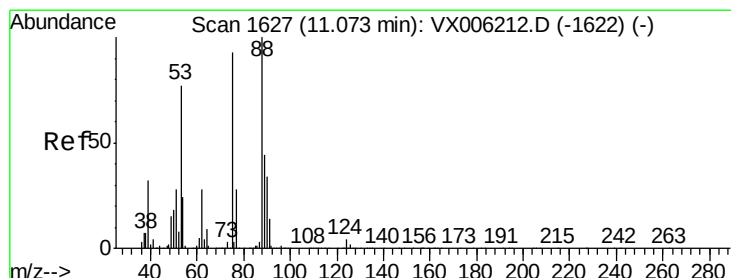
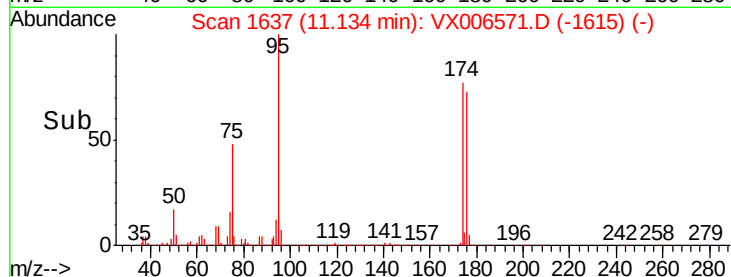
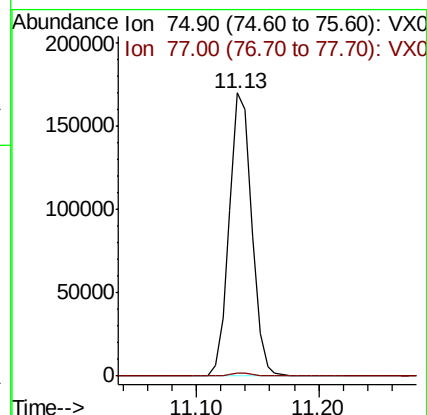
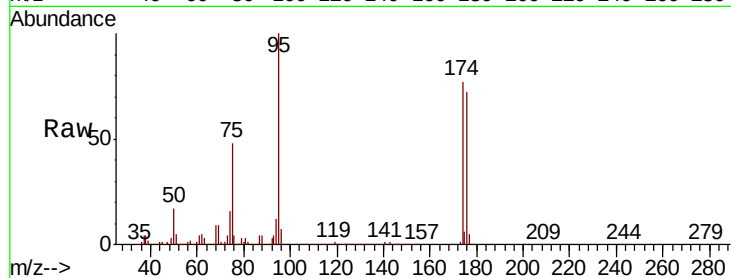
RE105D2-20181210

Tot Ion: 75 Resp: 216532

Ion Ratio Lower Upper

75 100

77 1.1 19.9 59.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.568 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Tgt Ion: 75 Resp: 216532

Ion Ratio Lower Upper

75 100

53 0.3 64.4 96.6#

89 0.0 44.2 66.4#

