

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013806.D
 Acq On : 06 Dec 2019 17:49
 Operator : JC/SP
 Sample : K6184-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D1-20191203

Quant Time: Dec 07 02:39:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	638393	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	973798	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	870783	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	374211	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	352099	47.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.02%	
35) Dibromofluoromethane	5.49	113	290695	48.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.58%	
50) Toluene-d8	8.71	98	1134707	48.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.76%	
62) 4-Bromofluorobenzene	11.14	95	374326	44.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.52%	

Target Compounds

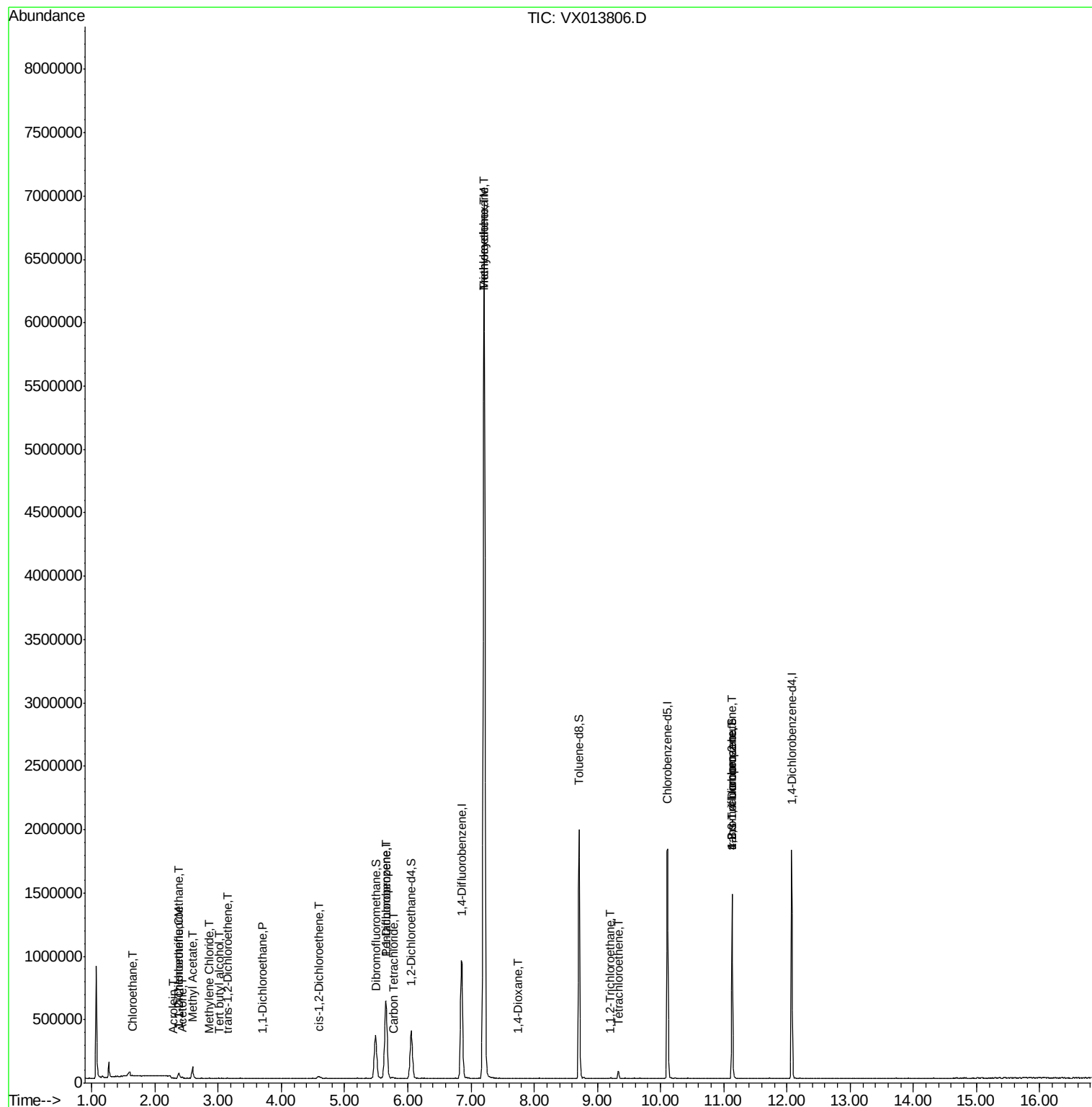
						Qvalue
6) Chloroethane	1.65	64	1322	0.259	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	14895	2.447	ug/l	95
11) Tert butyl alcohol	3.03	59	3046	1.665	ug/l #	65
12) 1,1-Dichloroethene	2.37	96	3295	0.542	ug/l #	78
13) Acrolein	2.28	56	874	6.701	ug/l	96
16) Acetone	2.43	43	9208	2.517	ug/l	89
18) Methyl Acetate	2.59	43	23305	2.288	ug/l #	51
20) Methylene Chloride	2.85	84	1774	0.252	ug/l #	53
21) trans-1,2-Dichloroethene	3.15	96	1880	0.284	ug/l #	62
24) 1,1-Dichloroethane	3.70	63	2480	0.214	ug/l #	39
27) cis-1,2-Dichloroethene	4.59	96	10108	1.330	ug/l	87
36) 1,1-Dichloropropene	5.65	75	43510	4.922	ug/l #	51
38) Carbon Tetrachloride	5.78	117	2531	0.311	ug/l #	58
39) Methylcyclohexane	7.20	83	30137	2.758	ug/l #	1
44) Trichloroethene	7.21	130	2729088	369.353	ug/l	97
49) 1,4-Dioxane	7.75	88	1613	9.084	ug/l #	31
55) 1,1,2-Trichloroethane	9.21	97	1472	0.218	ug/l #	68
64) Tetrachloroethene	9.33	164	12321	1.897	ug/l #	87
76) 1,2,3-Trichloropropane	11.14	75	186879	22.203	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	186879	60.745	ug/l #	11

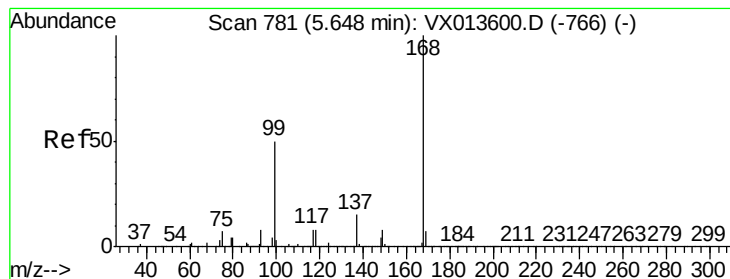
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

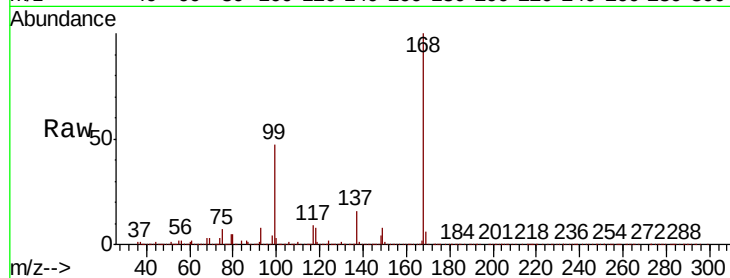
RE122D1-20191203

Tot Ion:168 Resp: 638393

Ion Ratio Lower Upper

168 100

99 47.3 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

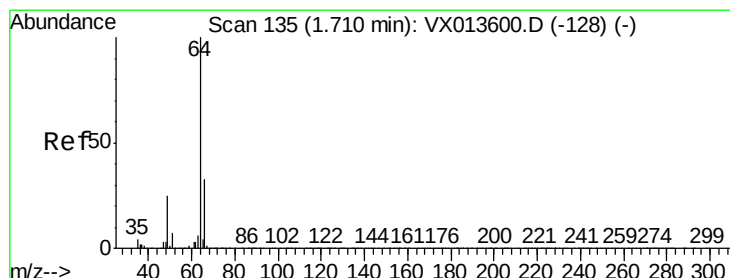
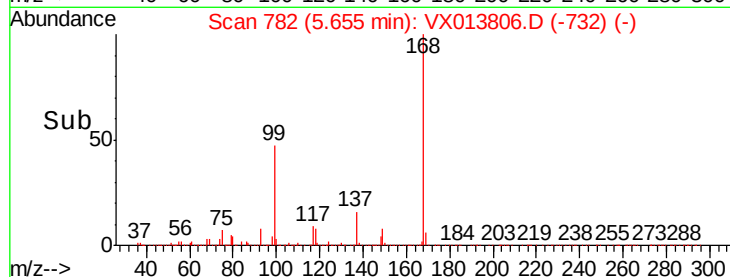
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.259 ug/l

RT: 1.65 min Scan# 125

Delta R.T. -0.06 min

Lab File: VX013806.D

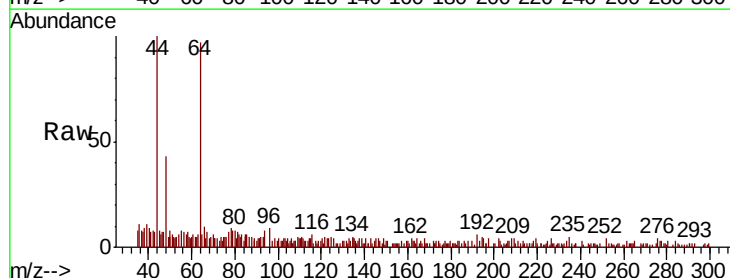
Acq: 06 Dec 2019 17:49

Tgt Ion: 64 Resp: 1322

Ion Ratio Lower Upper

64 100

66 32.2 26.7 40.1



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.65

5000

4000

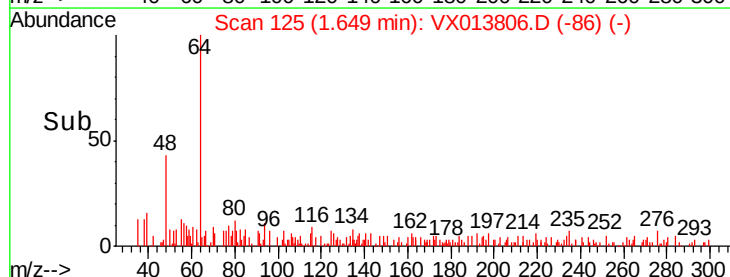
3000

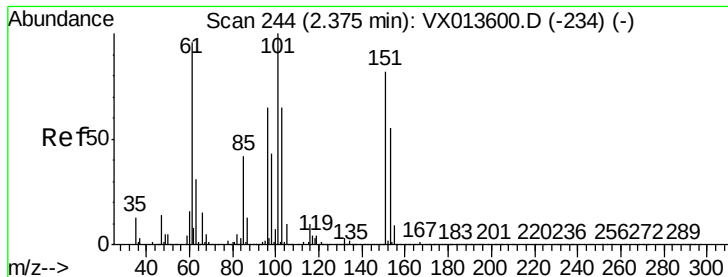
2000

1000

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.447 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.00 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-20191203

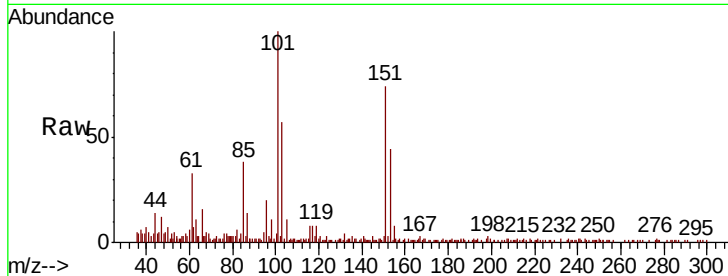
Tot Ion:101 Resp: 14895

Ion Ratio Lower Upper

101 100

85 40.5 33.9 50.9

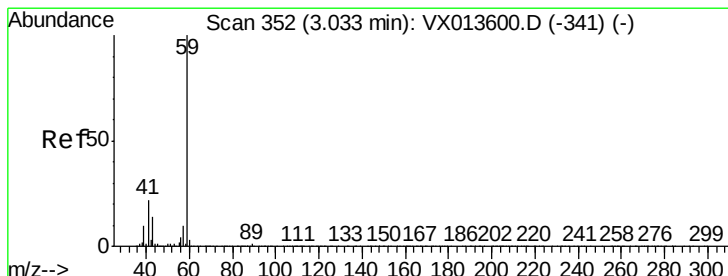
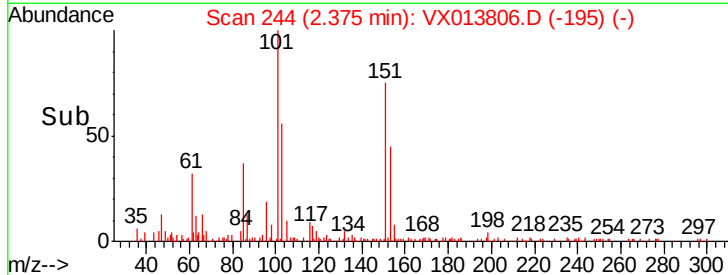
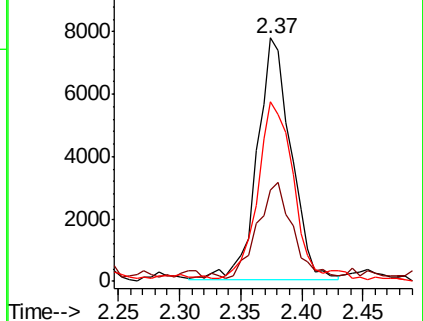
151 74.3 64.2 96.2



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: 1.665 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX013806.D

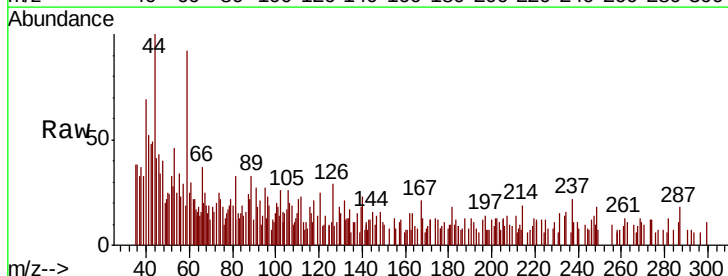
Acq: 06 Dec 2019 17:49

Tgt Ion: 59 Resp: 3046

Ion Ratio Lower Upper

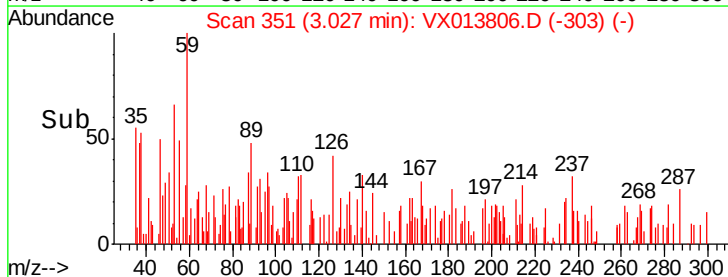
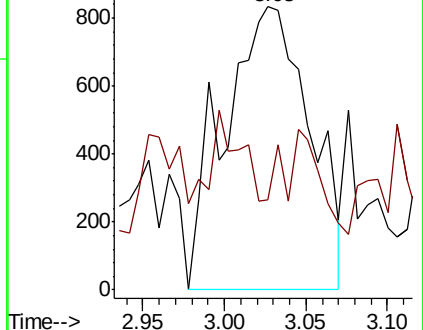
59 100

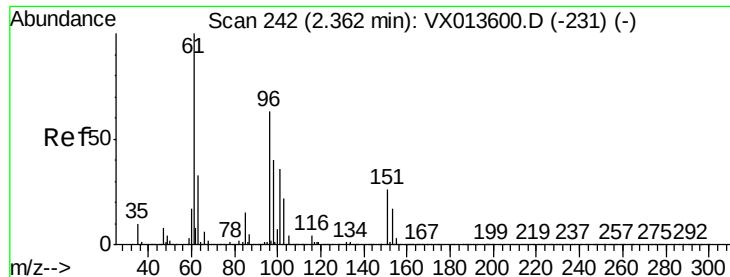
57 22.6 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.542 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-20191203

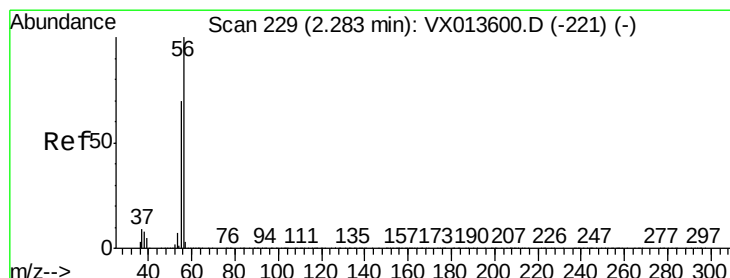
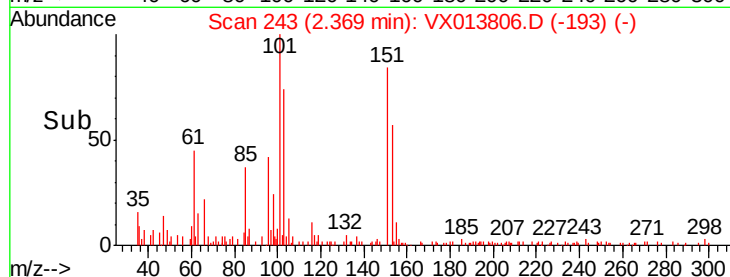
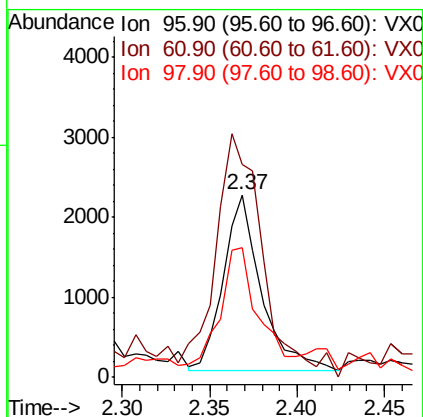
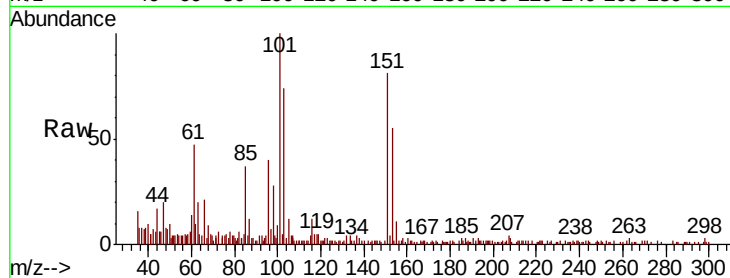
Tot Ion: 96 Resp: 3295

Ion Ratio Lower Upper

96 100

61 121.7 126.6 190.0#

98 68.7 50.6 76.0



#13

Acrolein

Concen: 6.701 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX013806.D

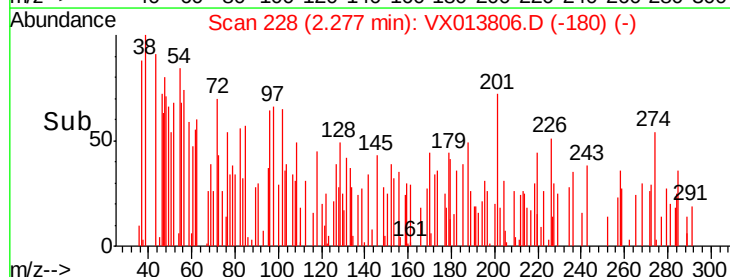
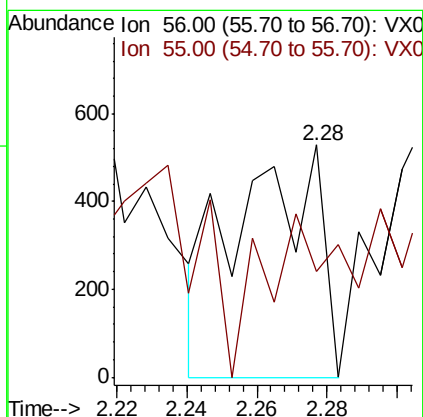
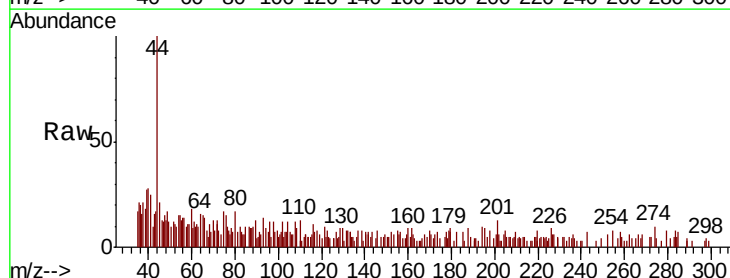
Acq: 06 Dec 2019 17:49

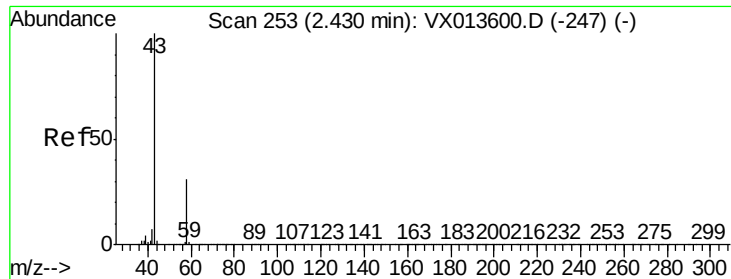
Tgt Ion: 56 Resp: 874

Ion Ratio Lower Upper

56 100

55 67.2 56.2 84.4

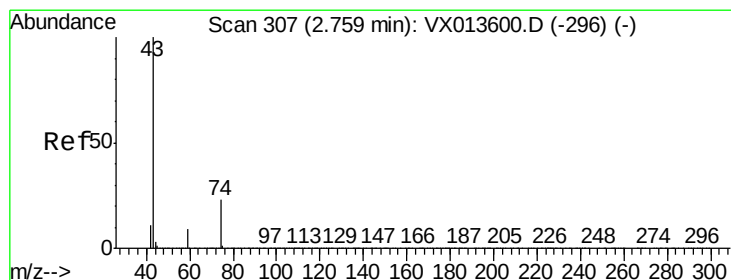
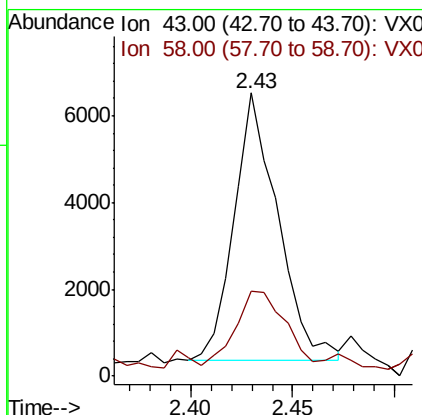
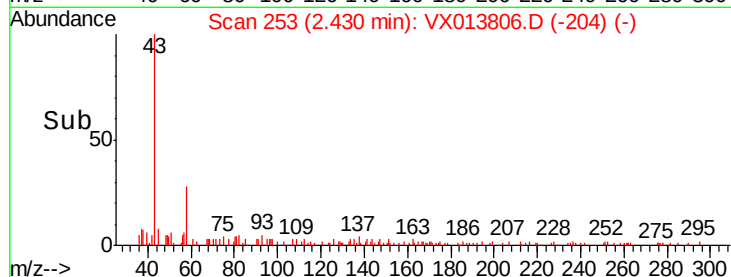
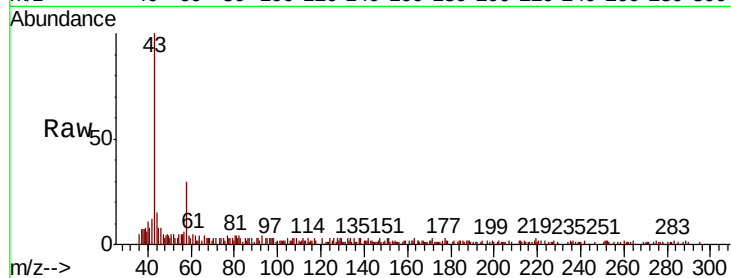




#16
Acetone
Concen: 2.517 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.00 min
Lab File: VX013806.D
Acq: 06 Dec 2019 17:49

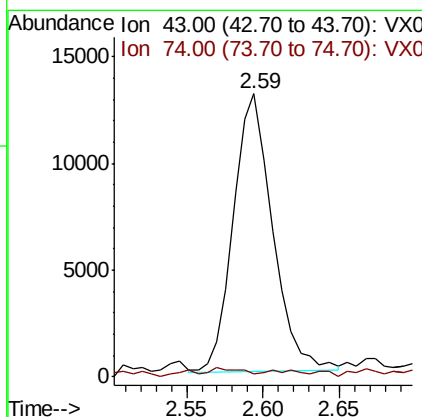
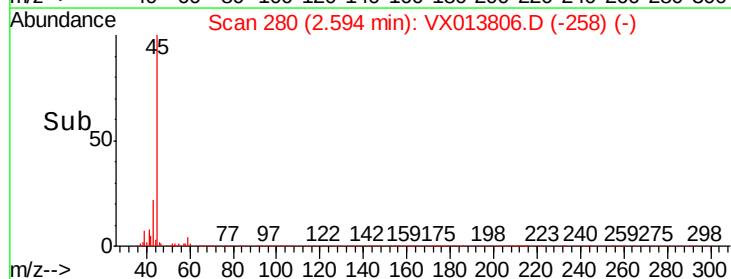
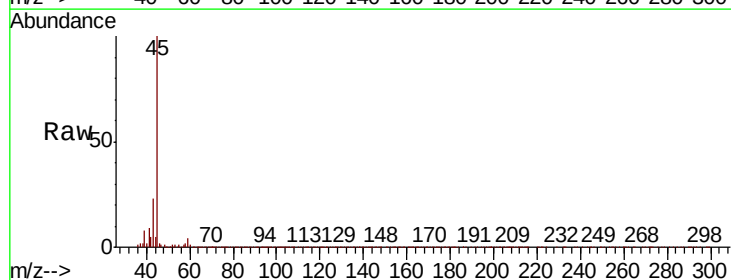
Instrument :
MSVOA_X
ClientSampleId :
RE122D1-20191203

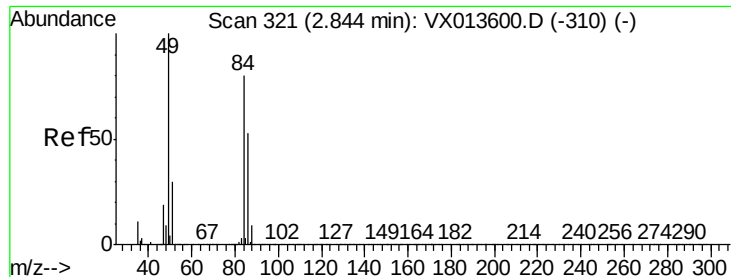
Tot Ion: 43 Resp: 9208
Ion Ratio Lower Upper
43 100
58 24.9 24.6 36.8



#18
Methyl Acetate
Concen: 2.288 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.16 min
Lab File: VX013806.D
Acq: 06 Dec 2019 17:49

Tgt Ion: 43 Resp: 23305
Ion Ratio Lower Upper
43 100
74 0.0 19.5 29.3#

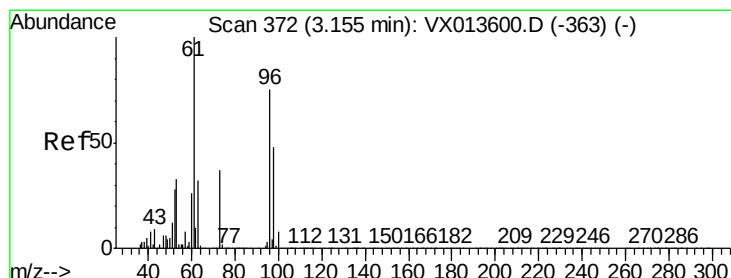
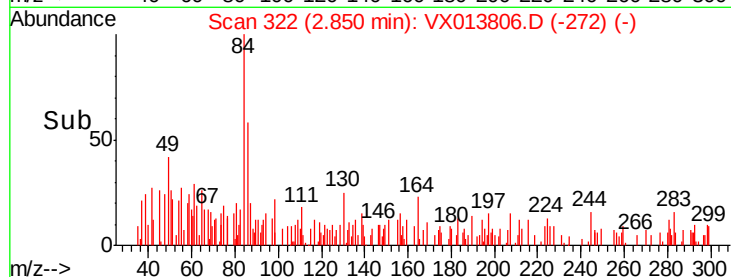
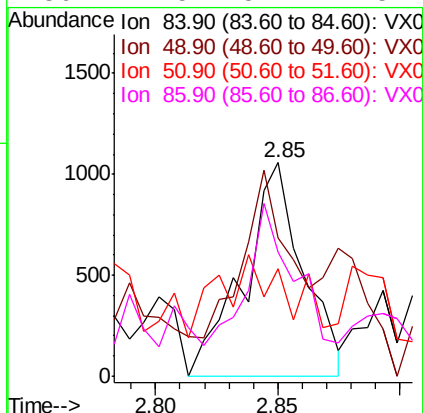
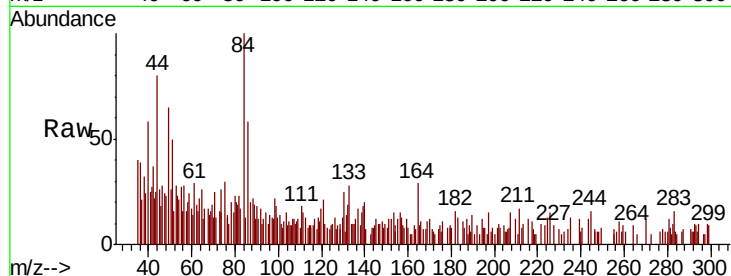




#20
Methylene Chloride
Concen: 0.252 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013806.D
Acq: 06 Dec 2019 17:49

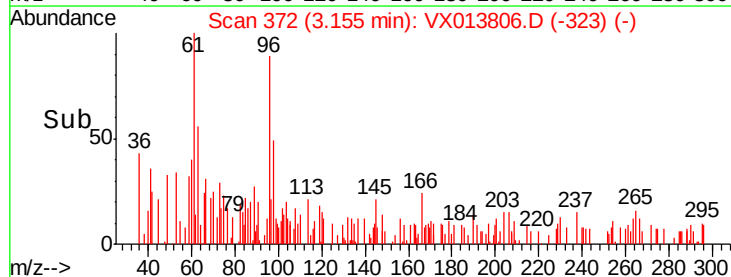
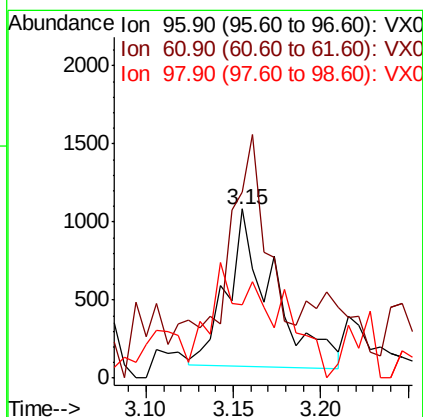
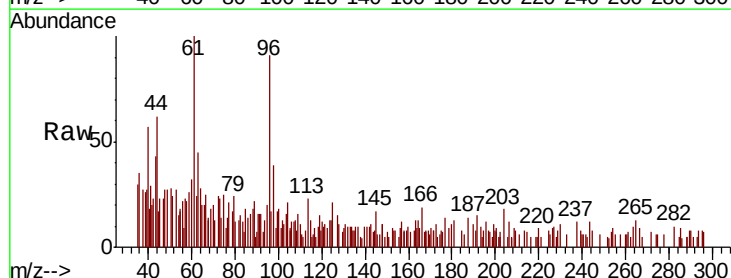
Instrument :
MSVOA_X
ClientSampleId :
RE122D1-20191203

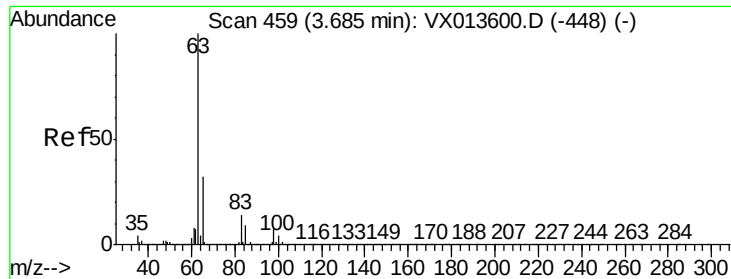
Tot Ion: 84 Resp: 1774
Ion Ratio Lower Upper
84 100
49 46.5 99.7 149.5#
51 32.1 29.9 44.9
86 42.5 52.2 78.4#



#21
trans-1,2-Dichloroethene
Concen: 0.284 ug/l
RT: 3.15 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX013806.D
Acq: 06 Dec 2019 17:49

Tgt Ion: 96 Resp: 1880
Ion Ratio Lower Upper
96 100
61 85.2 107.2 160.8#
98 38.5 51.4 77.0#

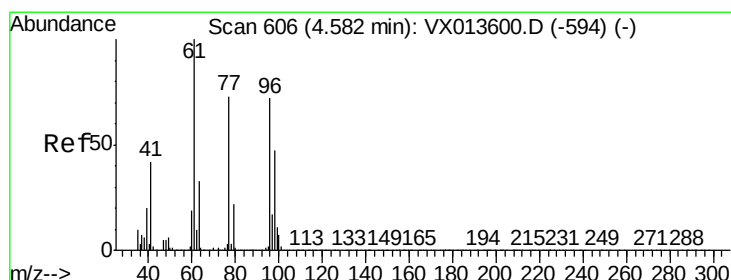
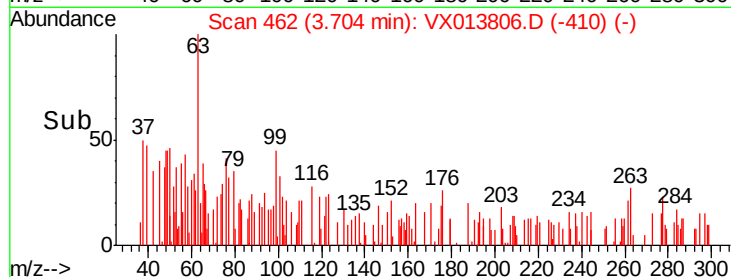
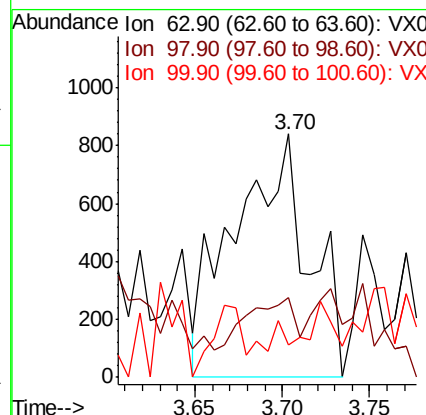
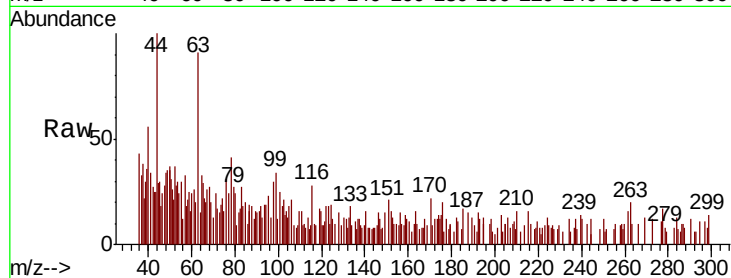




#24
1,1-Dichloroethane
Concen: 0.214 ug/l
RT: 3.70 min Scan# 462
Delta R.T. 0.02 min
Lab File: VX013806.D
Acq: 06 Dec 2019 17:49

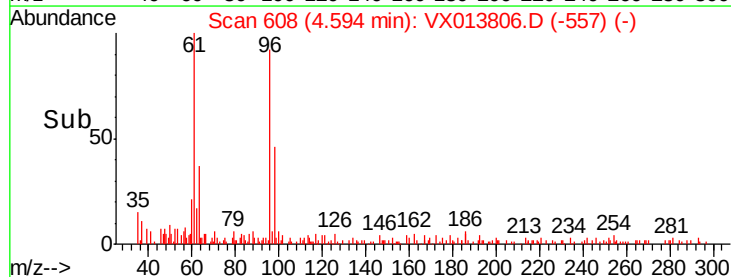
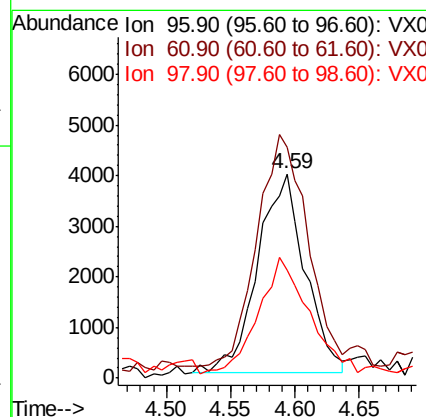
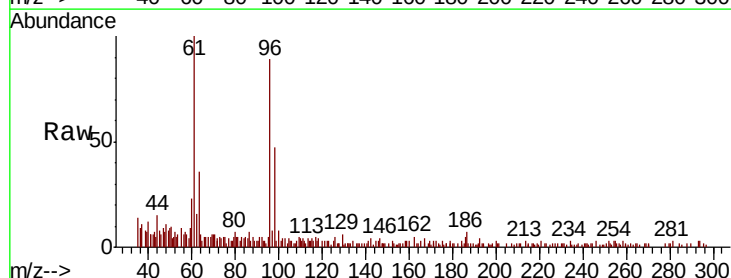
Instrument :
MSVOA_X
ClientSampleId :
RE122D1-20191203

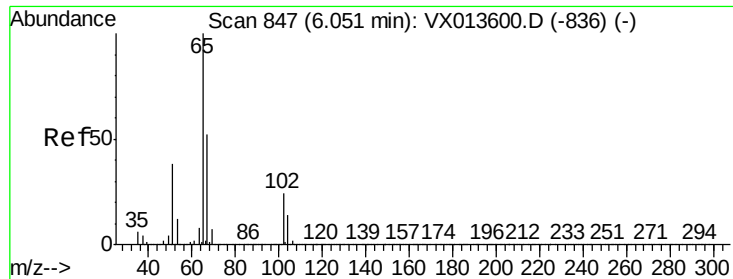
Tot Ion: 63 Resp: 2480
Ion Ratio Lower Upper
63 100
98 30.8 3.5 10.4#
100 19.3 2.1 6.3#



#27
cis-1,2-Dichloroethene
Concen: 1.330 ug/l
RT: 4.59 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX013806.D
Acq: 06 Dec 2019 17:49

Tgt Ion: 96 Resp: 10108
Ion Ratio Lower Upper
96 100
61 122.1 0.0 286.4
98 60.7 0.0 127.4

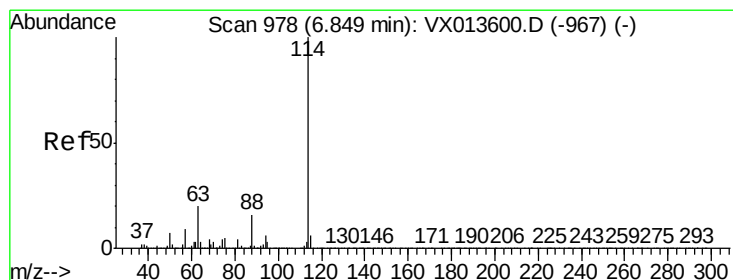
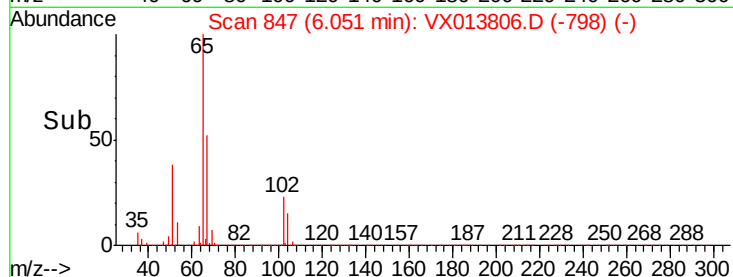
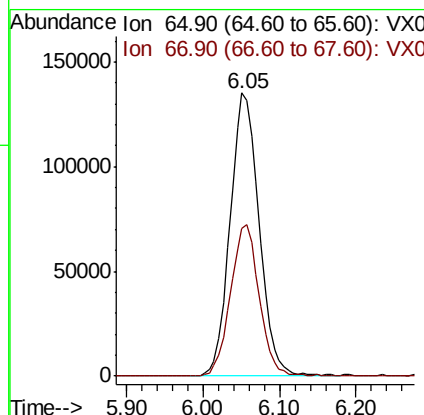
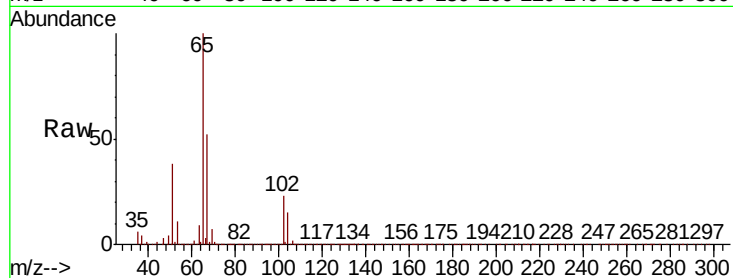




#33
 1,2-Dichloroethane-d4
 Concen: 47.515 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX013806.D
 Acq: 06 Dec 2019 17:49

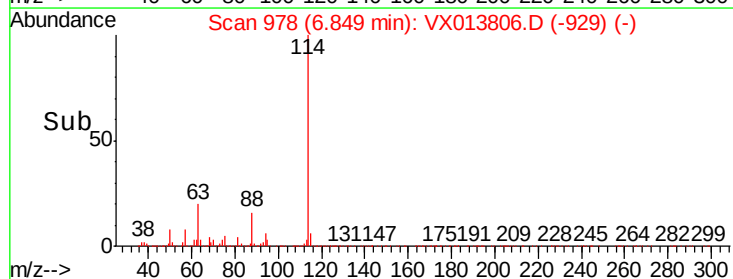
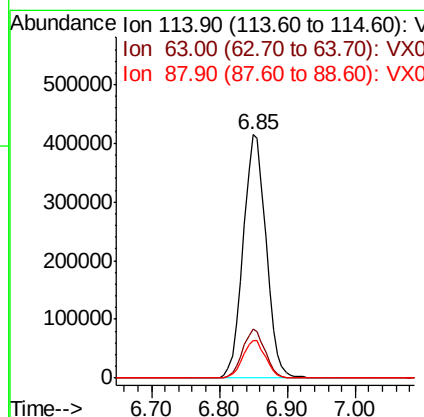
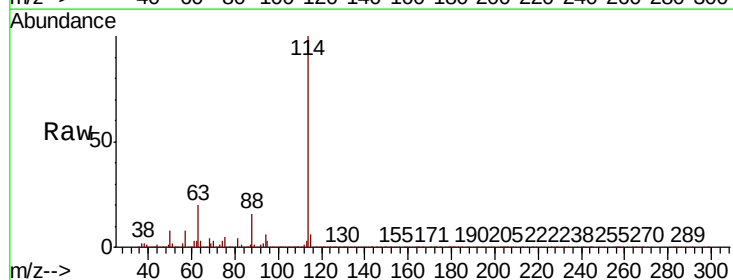
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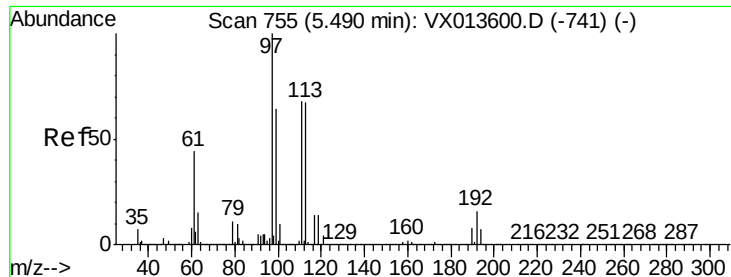
Tot Ion: 65 Resp: 352099
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013806.D
 Acq: 06 Dec 2019 17:49

Tgt Ion: 114 Resp: 973798
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.6
 88 15.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.287 ug/l

RT: 5.49 min Scan# 755

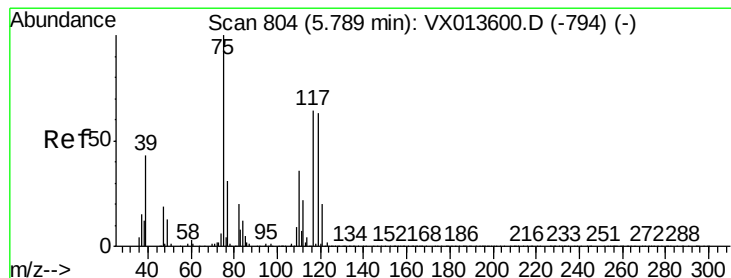
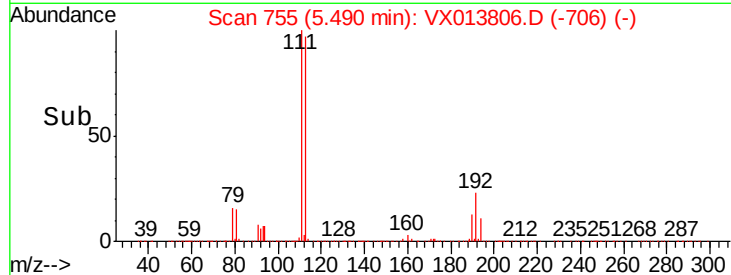
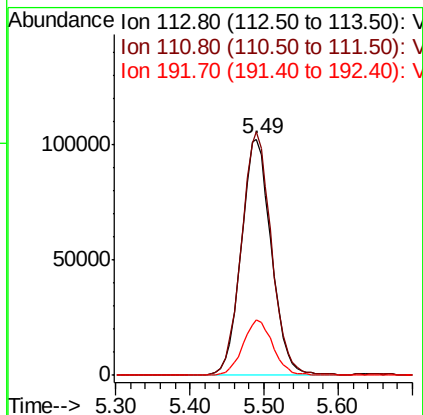
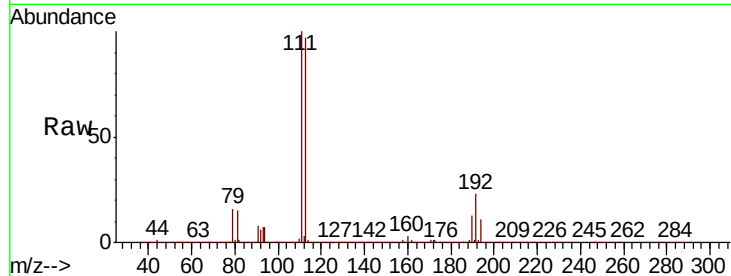
Delta R.T. -0.00 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

Instrument :
MSVOA_X
ClientSampleId :
RE122D1-20191203

Tot Ion:	113	Resp:	290695
Ion	Ratio	Lower	Upper
113	100		
111	101.8	83.6	125.4
192	23.1	19.2	28.8



#36

1,1-Dichloropropene

Concen: 4.922 ug/l

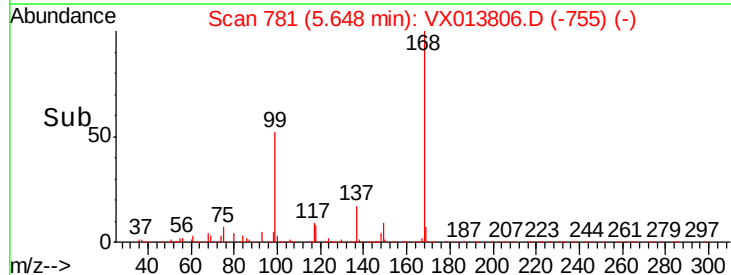
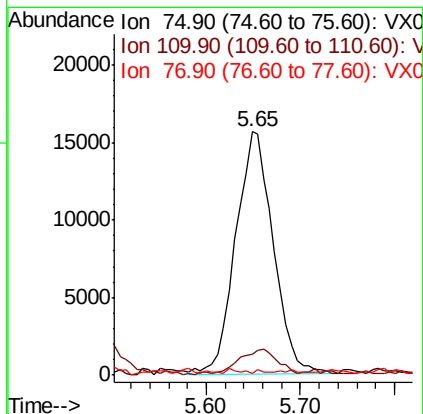
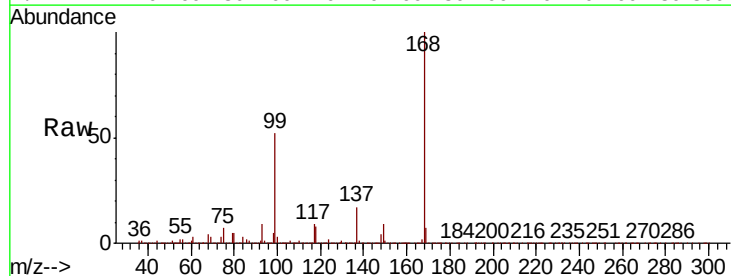
RT: 5.65 min Scan# 781

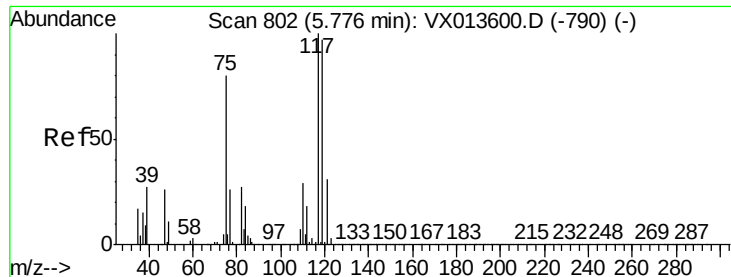
Delta R.T. -0.14 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

Tgt Ion:	75	Resp:	43510
Ion	Ratio	Lower	Upper
75	100		
110	10.4	18.1	54.1#
77	0.0	24.5	36.7#

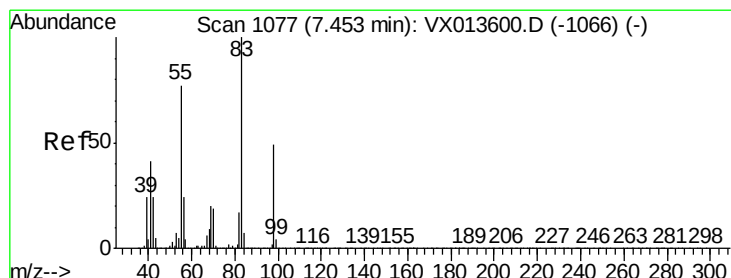
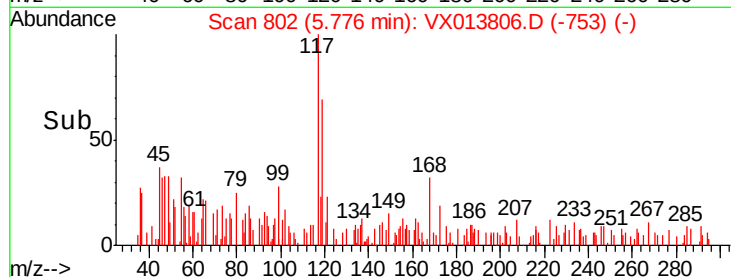
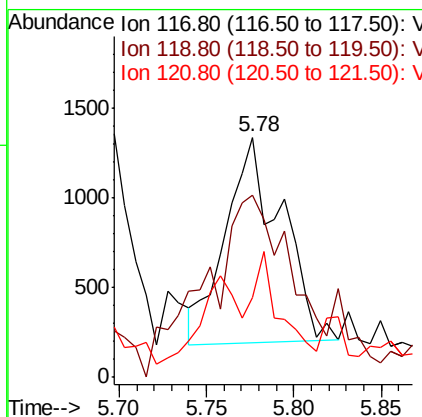
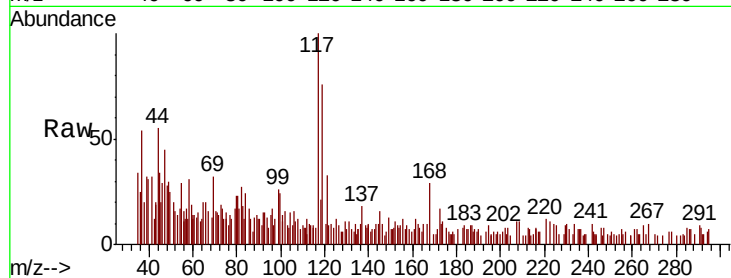




#38
Carbon Tetrachloride
Concen: 0.311 ug/l
RT: 5.78 min Scan# 802
Delta R.T. -0.00 min
Lab File: VX013806.D
Acq: 06 Dec 2019 17:49

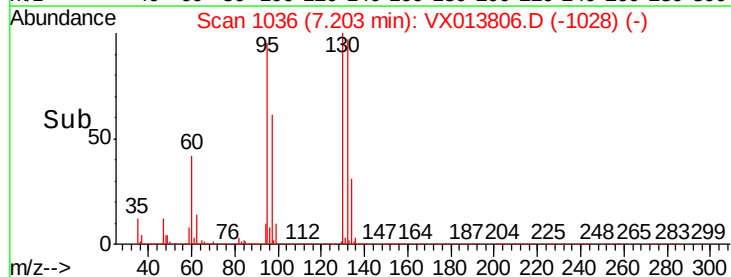
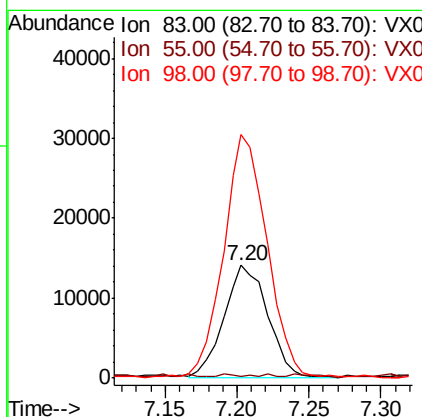
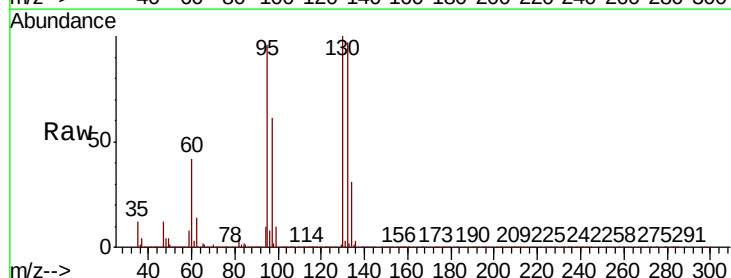
Instrument :
MSVOA_X
ClientSampleId :
RE122D1-20191203

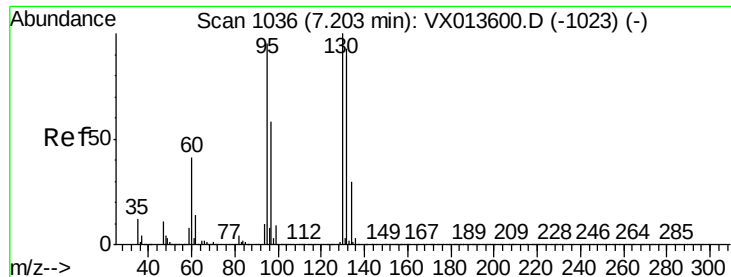
Tot Ion:117 Resp: 2531
Ion Ratio Lower Upper
117 100
119 47.4 77.5 116.3#
121 21.6 25.0 37.6#



#39
Methylcyclohexane
Concen: 2.758 ug/l
RT: 7.20 min Scan# 1036
Delta R.T. -0.25 min
Lab File: VX013806.D
Acq: 06 Dec 2019 17:49

Tgt Ion: 83 Resp: 30137
Ion Ratio Lower Upper
83 100
55 1.7 61.9 92.9#
98 213.6 39.4 59.0#





#44

Trichloroethene

Concen: 369.353 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

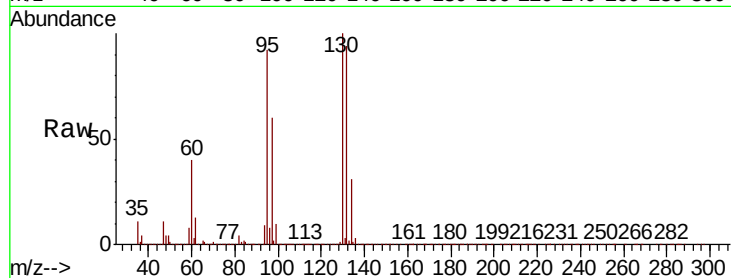
RE122D1-20191203

Tot Ion:130 Resp: 2729088

Ion Ratio Lower Upper

130 100

95 92.1 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

1500000 Ion 94.90 (94.60 to 95.60): VX0

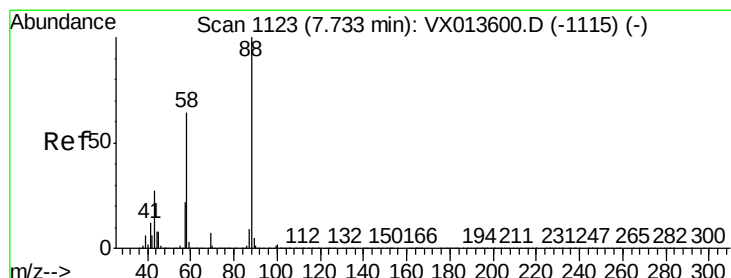
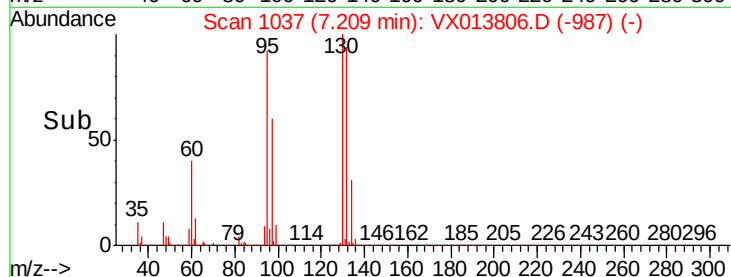
7.21

1000000

500000

0

Time-->



#49

1,4-Dioxane

Concen: 9.084 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

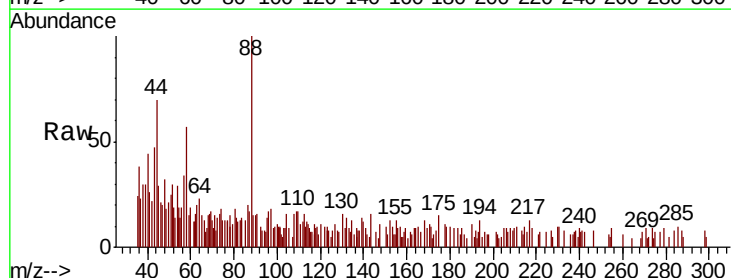
Tgt Ion: 88 Resp: 1613

Ion Ratio Lower Upper

88 100

43 52.3 25.8 38.6#

58 0.0 54.6 82.0#



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

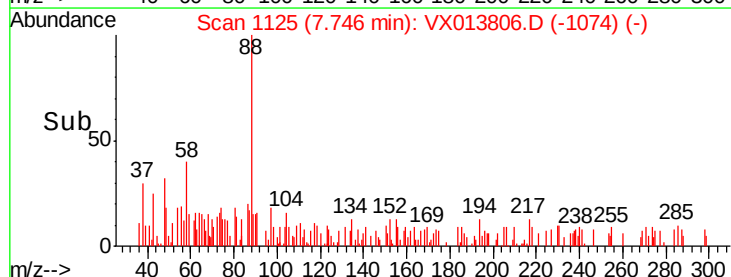
1500

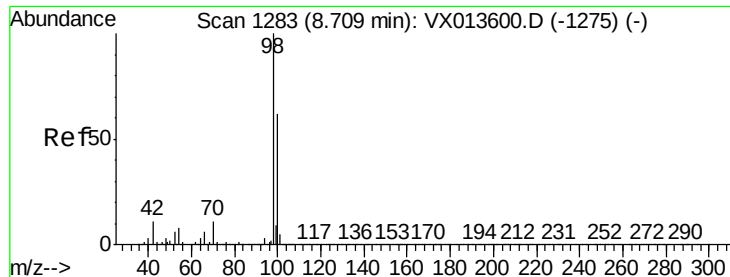
1000

500

0

Time-->





#50

Toluene-d8

Concen: 48.378 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

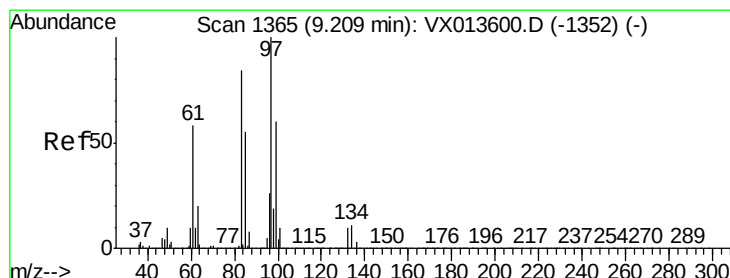
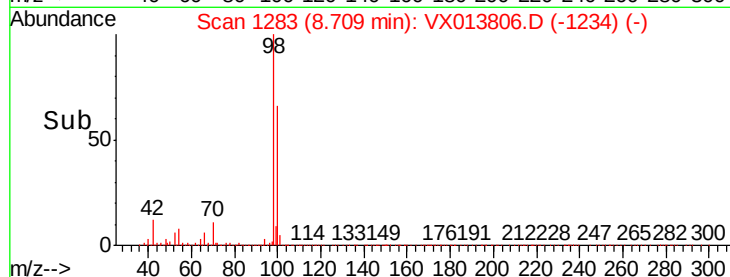
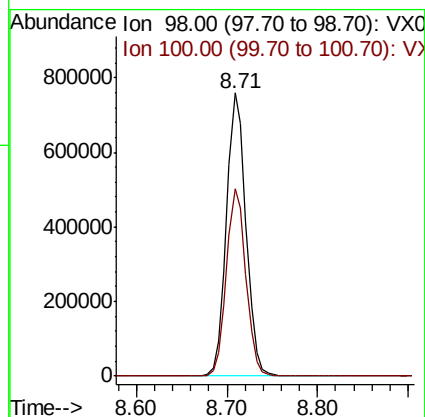
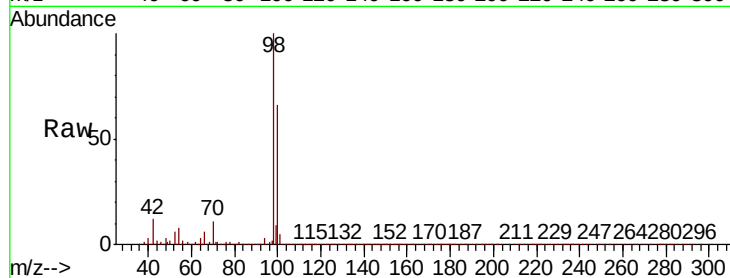
RE122D1-20191203

Tot Ion: 98 Resp: 1134707

Ion Ratio Lower Upper

98 100

100 66.4 53.1 79.7



#55

1,1,2-Trichloroethane

Concen: 0.218 ug/l

RT: 9.21 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

Tgt Ion: 97 Resp: 1472

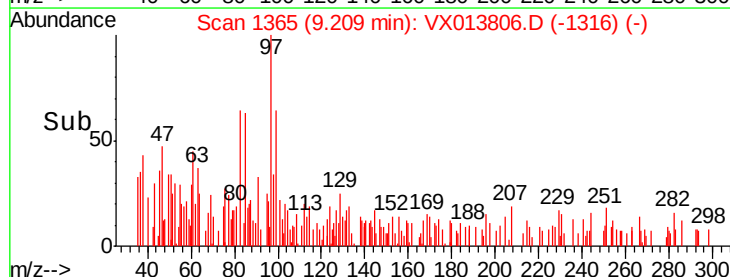
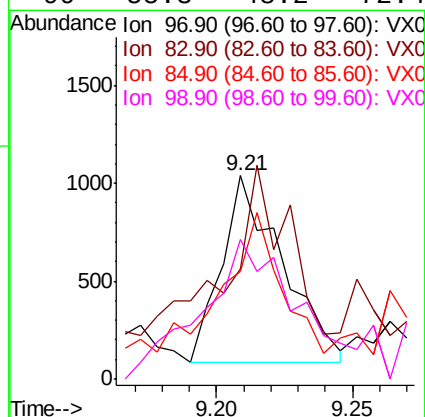
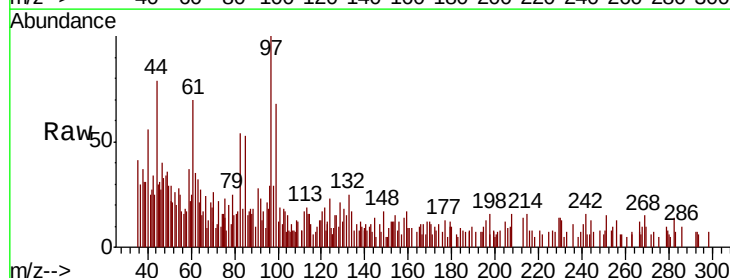
Ion Ratio Lower Upper

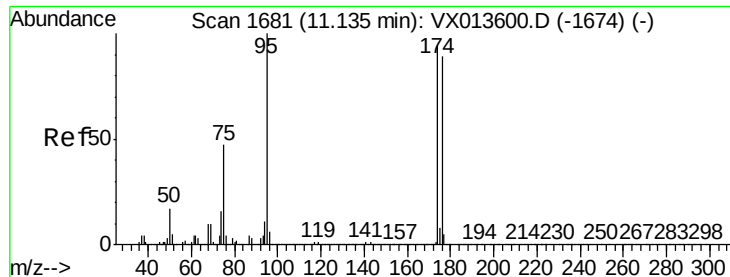
97 100

83 34.3 67.3 100.9#

85 36.3 43.6 65.4#

99 55.3 48.2 72.4





#62

4-Bromofluorobenzene

Concen: 44.257 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-20191203

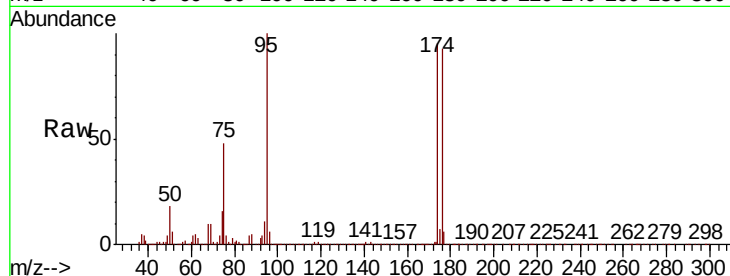
Tot Ion: 95 Resp: 374326

Ion Ratio Lower Upper

95 100

174 90.9 0.0 180.0

176 88.8 0.0 173.6

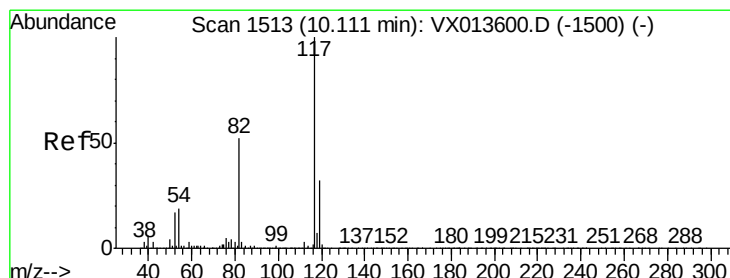
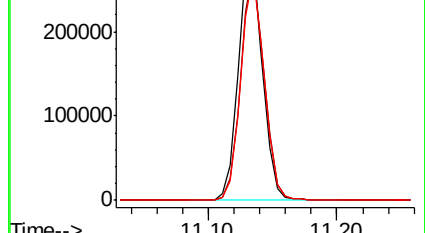
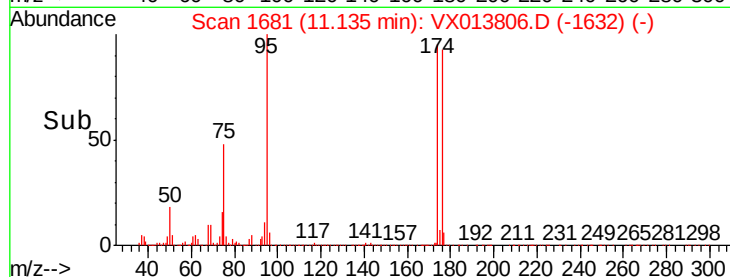


Abundance Ion 94.90 (94.60 to 95.60): VX013600.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013600.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013600.D (-1674) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

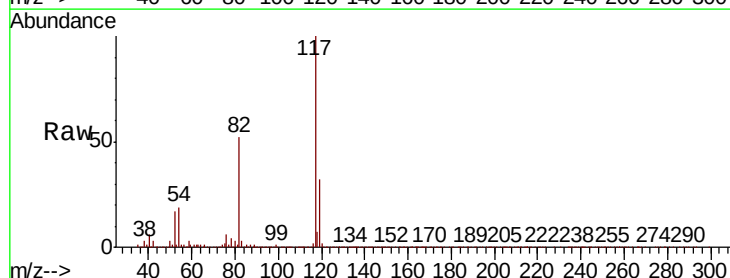
Tgt Ion: 117 Resp: 870783

Ion Ratio Lower Upper

117 100

82 51.9 41.8 62.8

119 31.7 25.8 38.8

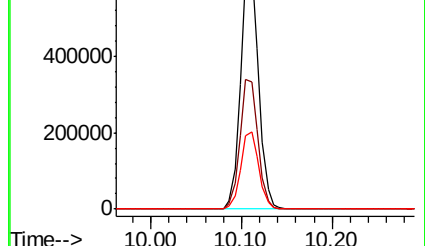
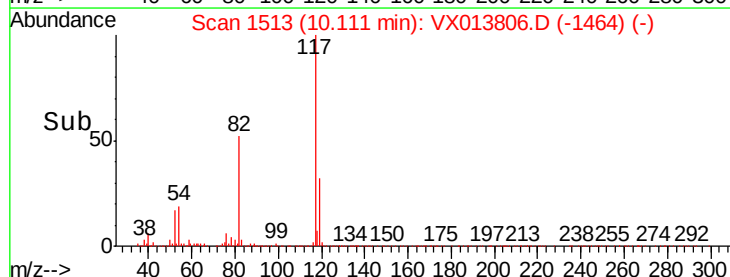


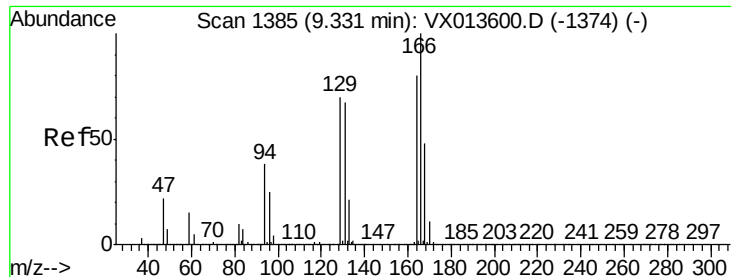
Abundance Ion 116.90 (116.60 to 117.60): VX013600.D (-1500) (-)

Ion 82.00 (81.70 to 82.70): VX013600.D (-1500) (-)

Ion 118.90 (118.60 to 119.60): VX013600.D (-1500) (-)

Time-->





#64

Tetrachloroethene

Concen: 1.897 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-20191203

Tot Ion:164 Resp: 12321

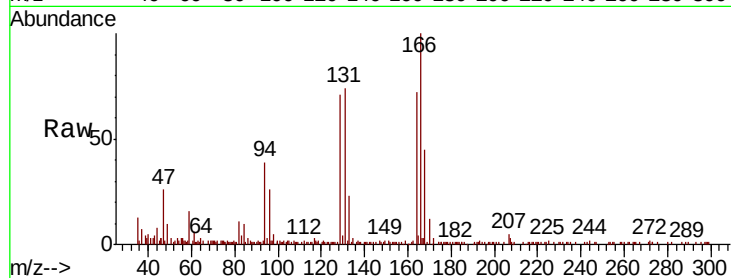
Ion Ratio Lower Upper

164 100

166 137.7 99.7 149.5

129 96.8 70.1 105.1

131 100.7 66.9 100.3#

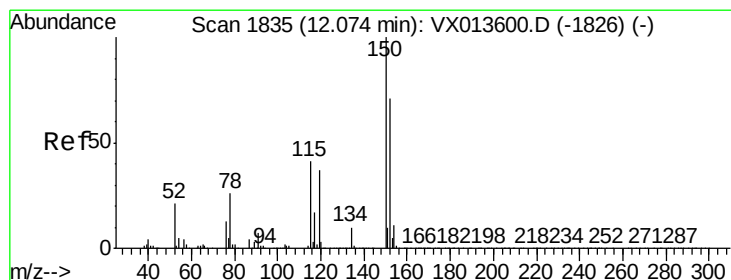
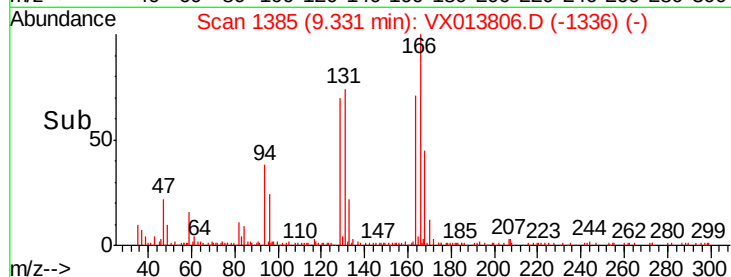
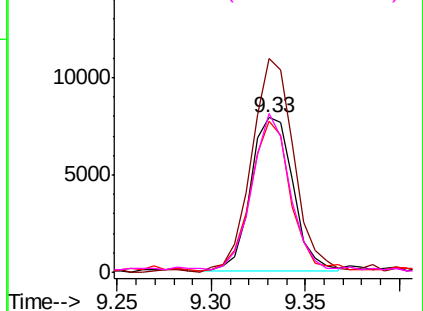


Abundance Ion 163.80 (163.50 to 164.50): V

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: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

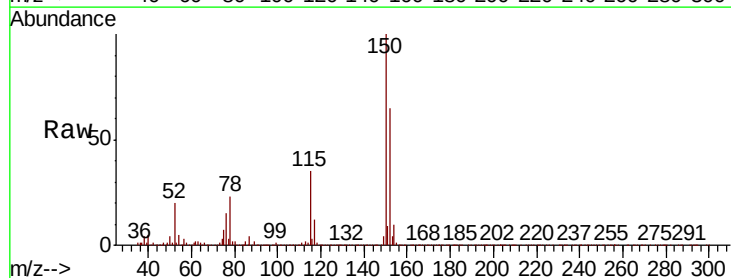
Tgt Ion:152 Resp: 374211

Ion Ratio Lower Upper

152 100

115 54.7 38.4 115.1

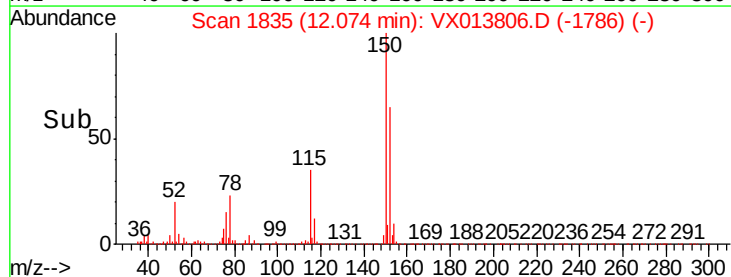
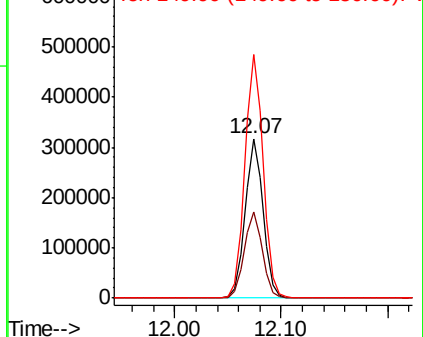
150 155.8 0.0 346.8

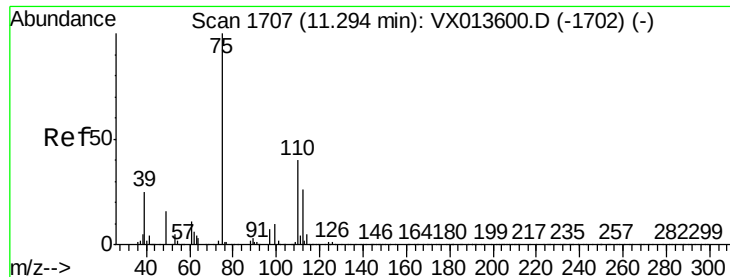


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.203 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

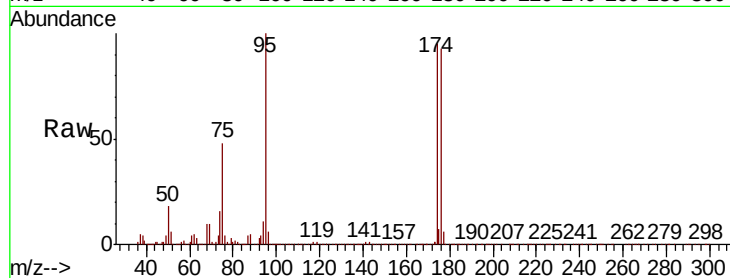
RE122D1-20191203

Tot Ion: 75 Resp: 186879

Ion Ratio Lower Upper

75 100

77 1.7 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

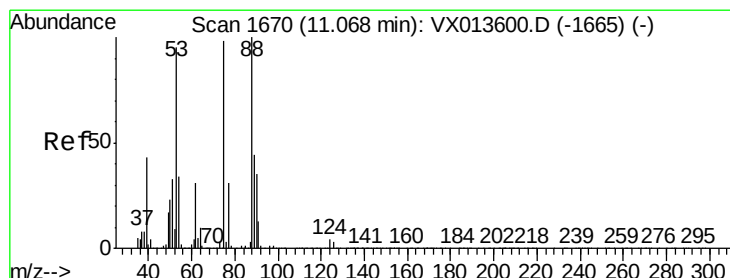
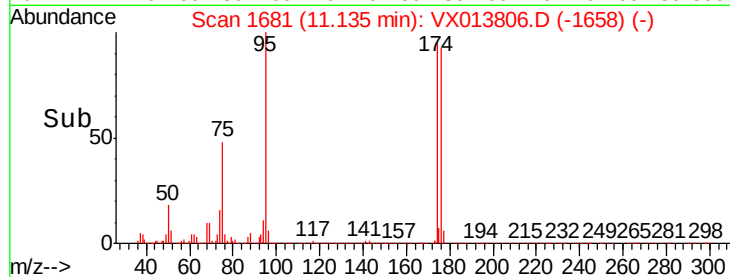
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 60.745 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013806.D

Acq: 06 Dec 2019 17:49

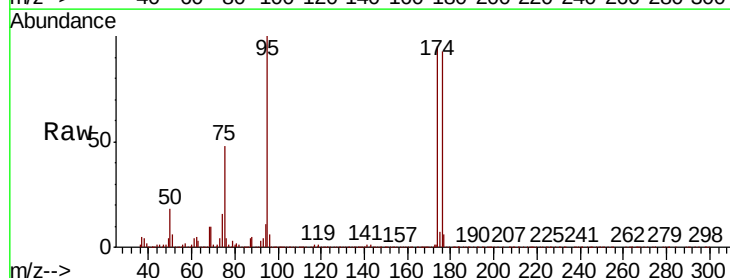
Tgt Ion: 75 Resp: 186879

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.2#

89 0.1 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.14

150000

100000

50000

0

Time-->

