

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121219\
 Data File : VX013983.D
 Acq On : 12 Dec 2019 18:19
 Operator : JC/SP
 Sample : K6252-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D4-20191209

Quant Time: Dec 13 00:54:14 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

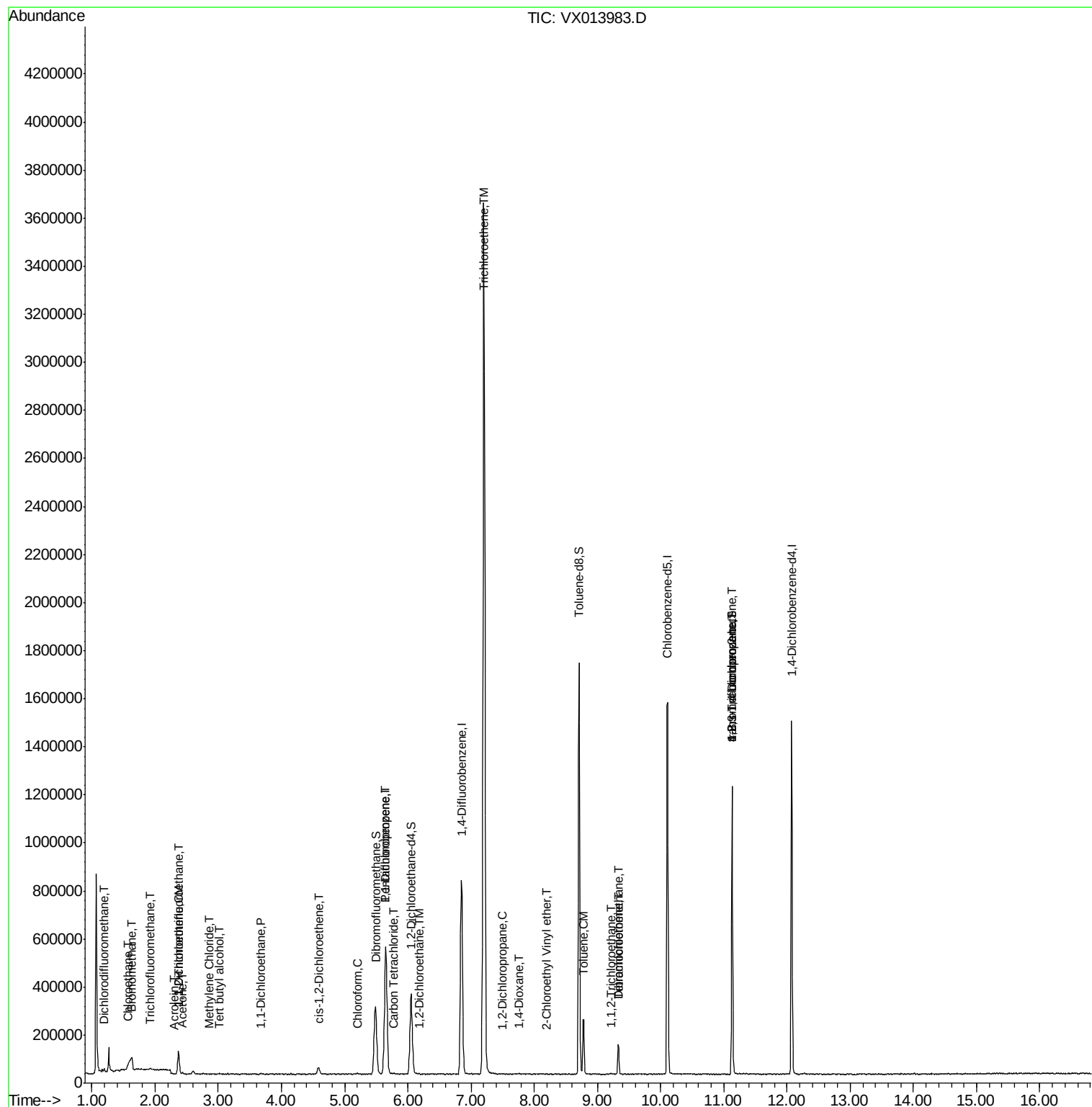
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	551660	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	840022	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	742686	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	308070	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	305619	47.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.46%	
35) Dibromofluoromethane	5.49	113	248027	47.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.52%	
50) Toluene-d8	8.71	98	996819	49.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.54%	
62) 4-Bromofluorobenzene	11.14	95	315031	43.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.36%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.19	85	2965	0.483	ug/l	86
5) Bromomethane	1.63	94	1578	0.303	ug/l #	65
6) Chloroethane	1.56	64	13137	2.977	ug/l #	59
7) Trichlorofluoromethane	1.92	101	2377	0.276	ug/l #	67
9) 1,1,2-Trichlorotrifluoroet	2.37	101	35049	6.664	ug/l	99
11) Tert butyl alcohol	3.01	59	799	0.506	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	7928	1.510	ug/l	83
13) Acrolein	2.29	56	495	6.461	ug/l #	15
16) Acetone	2.44	43	5280	1.670	ug/l	93
20) Methylene Chloride	2.86	84	1294	0.213	ug/l #	45
24) 1,1-Dichloroethane	3.69	63	3626	0.362	ug/l #	92
27) cis-1,2-Dichloroethene	4.59	96	17296	2.633	ug/l	92
30) Chloroform	5.20	83	3848	0.378	ug/l	99
36) 1,1-Dichloropropene	5.65	75	37145	4.871	ug/l #	51
38) Carbon Tetrachloride	5.78	117	2530	0.360	ug/l #	90
42) 1,2-Dichloroethane	6.17	62	2321	0.293	ug/l	95
44) Trichloroethene	7.21	130	1461423	229.286	ug/l	96
45) 1,2-Dichloropropane	7.50	63	1210	0.208	ug/l #	53
49) 1,4-Dioxane	7.75	88	3588	23.425	ug/l #	87
52) Toluene	8.78	92	89915	6.232	ug/l	100
55) 1,1,2-Trichloroethane	9.21	97	1702	0.293	ug/l #	86
58) 2-Chloroethyl Vinyl ether	8.20	63	752	0.205	ug/l	91
60) Dibromochloromethane	9.33	129	22370	3.707	ug/l #	11
64) Tetrachloroethene	9.33	164	24338	4.394	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	156037	22.519	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	156037	61.609	ug/l #	11

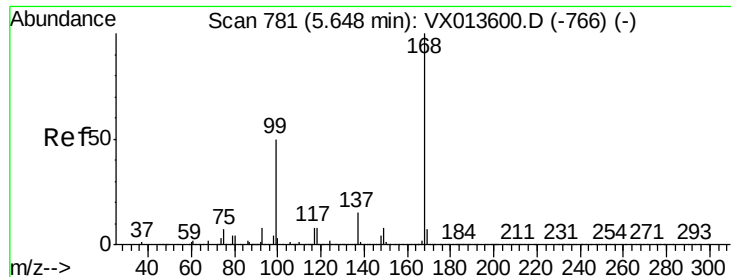
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121219\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
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: VX013983.D

Acq: 12 Dec 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

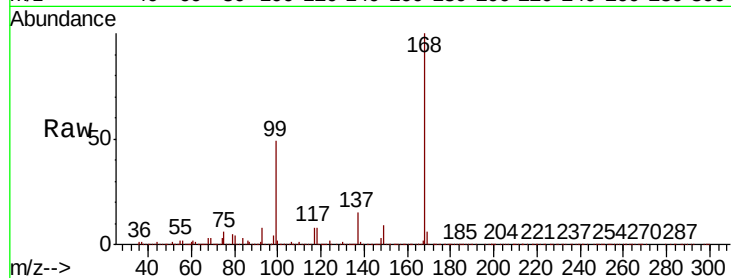
RE132D4-20191209

Tot Ion:168 Resp: 551660

Ion Ratio Lower Upper

168 100

99 48.5 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

200000

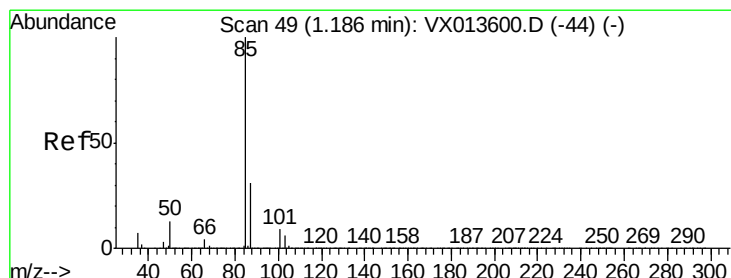
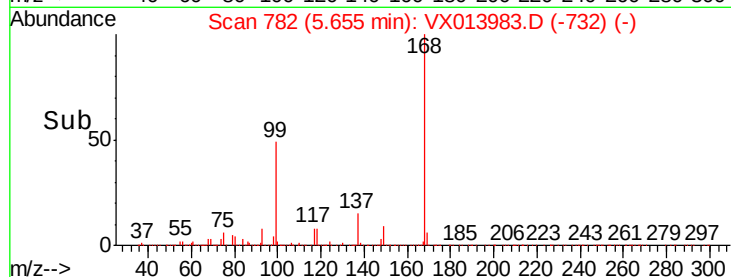
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.483 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013983.D

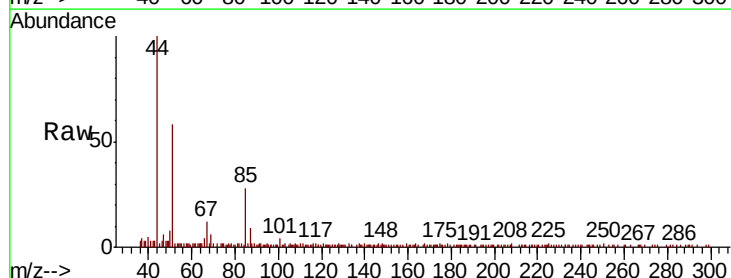
Acq: 12 Dec 2019 18:19

Tgt Ion: 85 Resp: 2965

Ion Ratio Lower Upper

85 100

87 23.7 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

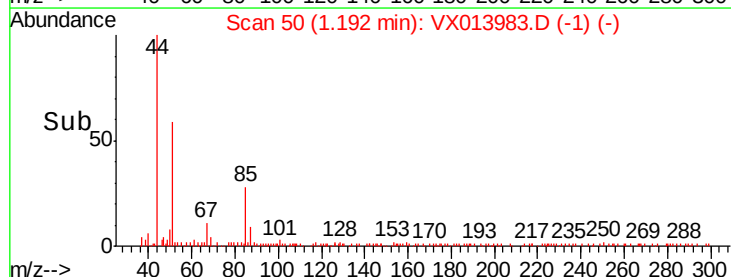
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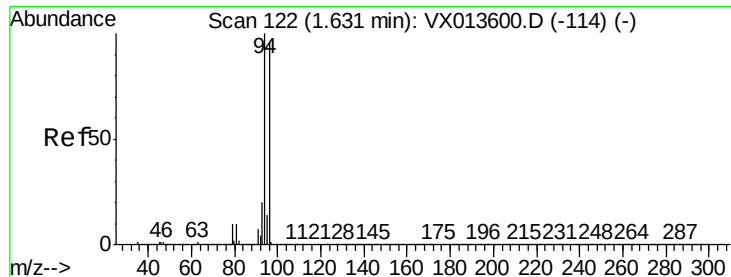
2000

1000

0

Time-->





#5

Bromomethane

Concen: 0.303 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX013983.D

Acq: 12 Dec 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

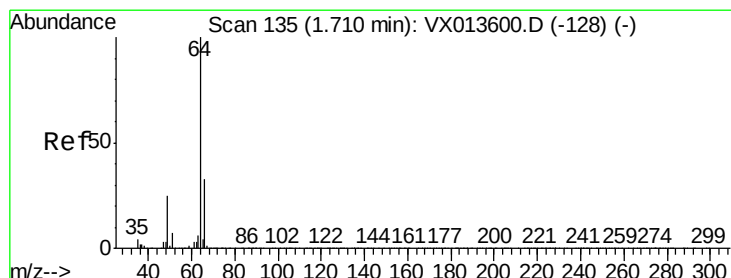
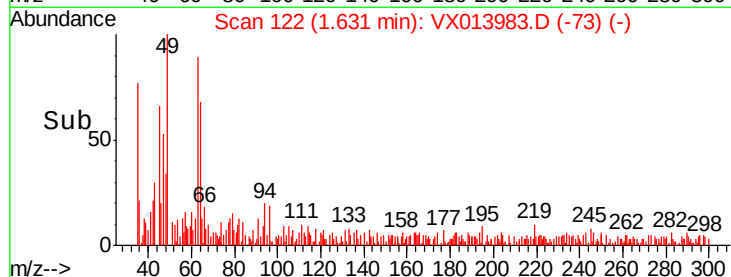
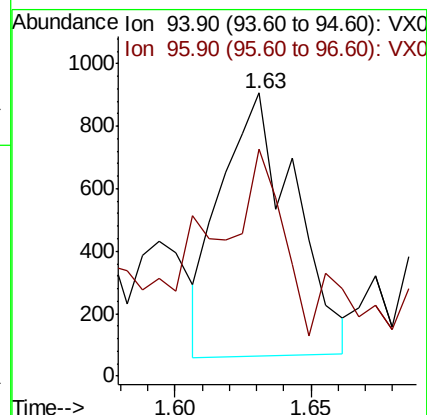
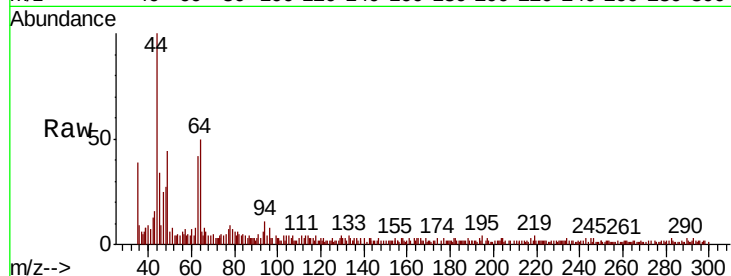
RE132D4-20191209

Tot Ion: 94 Resp: 1578

Ion Ratio Lower Upper

94 100

96 61.8 77.0 115.4#



#6

Chloroethane

Concen: 2.977 ug/l

RT: 1.56 min Scan# 111

Delta R.T. -0.15 min

Lab File: VX013983.D

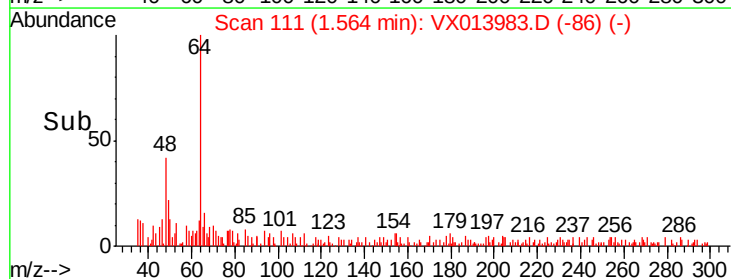
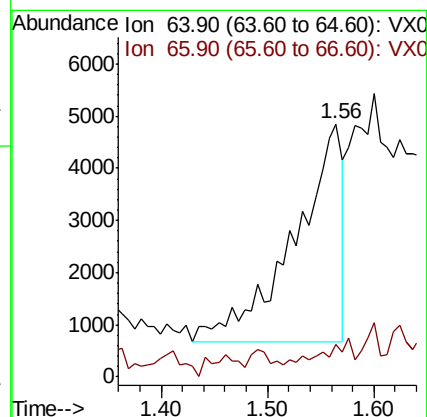
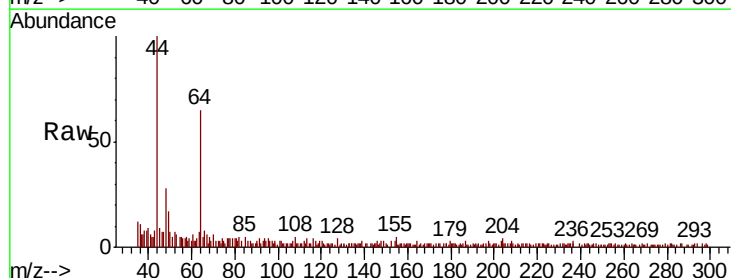
Acq: 12 Dec 2019 18:19

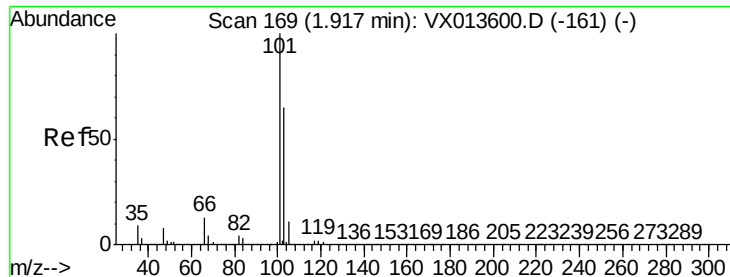
Tgt Ion: 64 Resp: 13137

Ion Ratio Lower Upper

64 100

66 10.0 26.7 40.1#





#7

Trichlorofluoromethane

Concen: 0.276 ug/l

RT: 1.92 min Scan# 169

Delta R.T. 0.00 min

Lab File: VX013983.D

Acq: 12 Dec 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

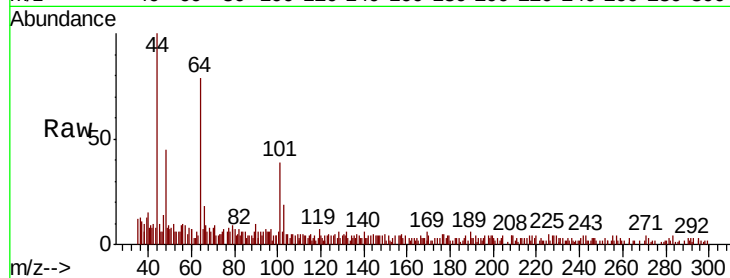
RE132D4-20191209

Tot Ion:101 Resp: 2377

Ion Ratio Lower Upper

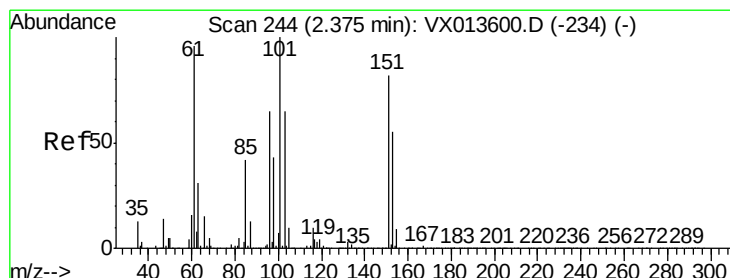
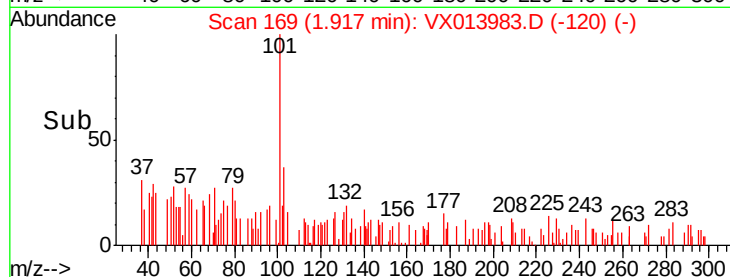
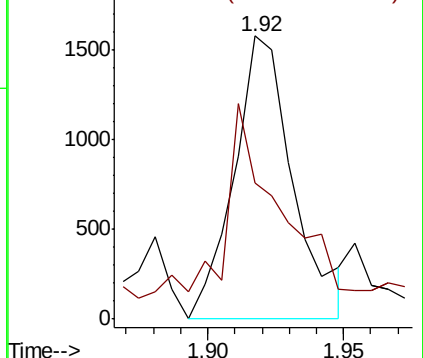
101 100

103 38.8 51.8 77.6#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.664 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.01 min

Lab File: VX013983.D

Acq: 12 Dec 2019 18:19

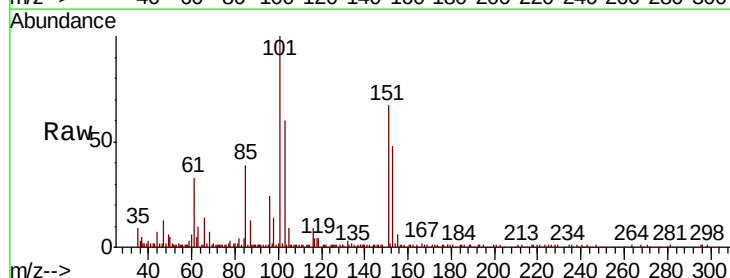
Tgt Ion:101 Resp: 35049

Ion Ratio Lower Upper

101 100

85 43.1 33.9 50.9

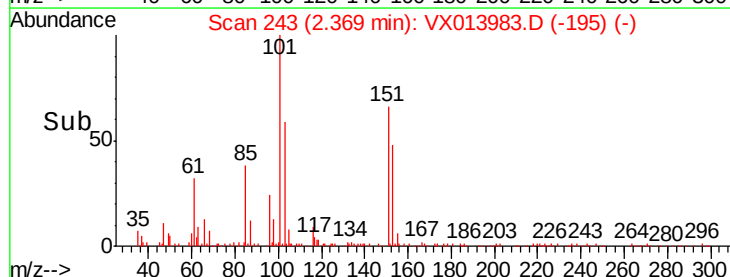
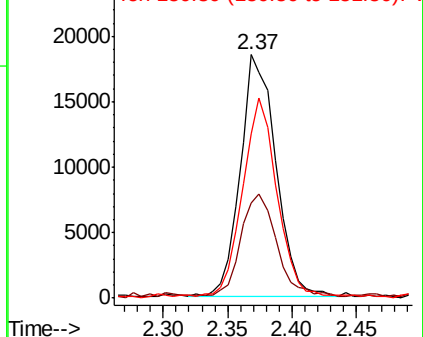
151 80.8 64.2 96.2

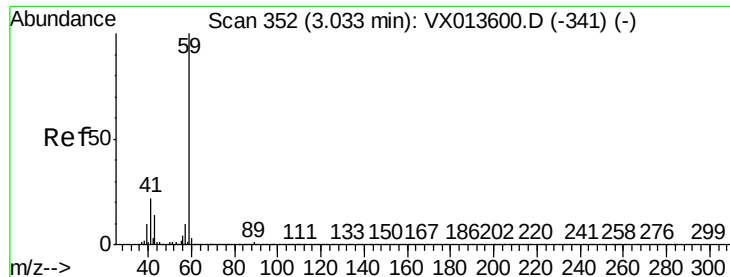


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



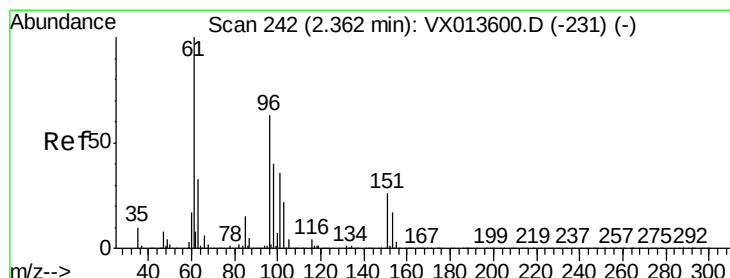
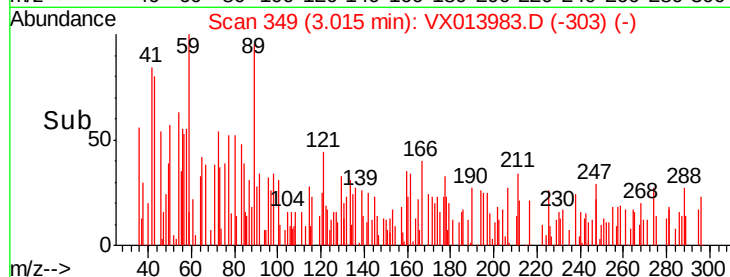
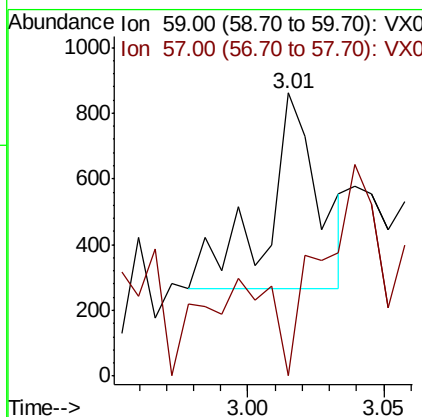
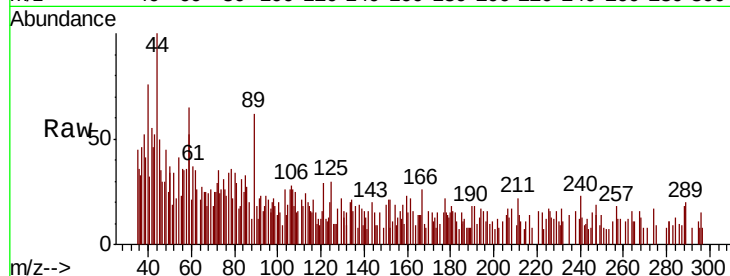


#11

Tert butyl alcohol
Concen: 0.506 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.02 min
Lab File: VX013983.D
Acq: 12 Dec 2019 18:19

Instrument :
MSVOA_X
ClientSampleId :
RE132D4-20191209

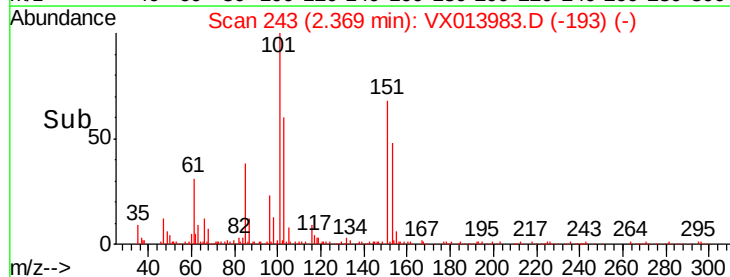
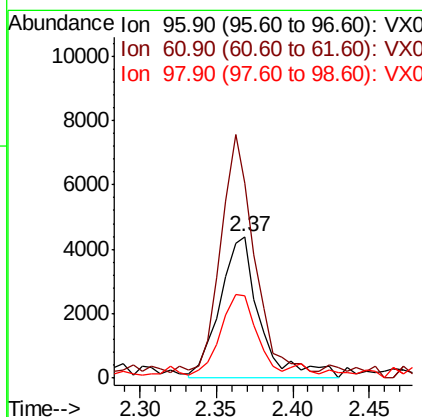
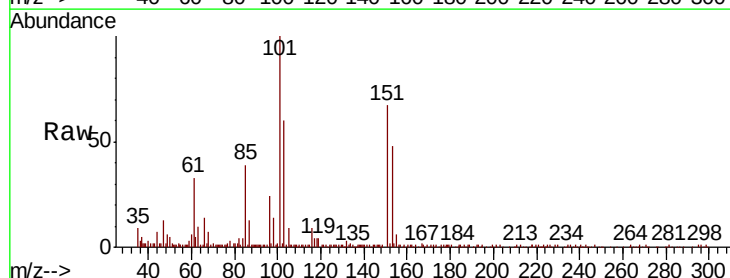
Tot Ion: 59 Resp: 799
Ion Ratio Lower Upper
59 100
57 65.2 7.8 11.6#

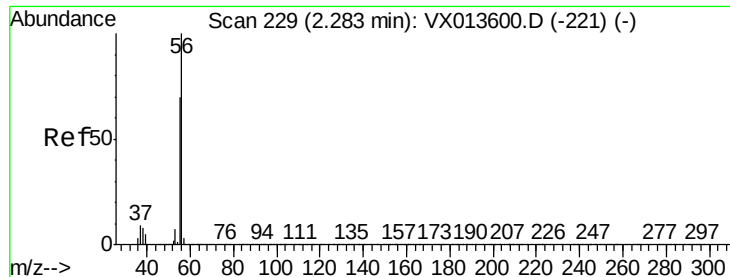


#12

1,1-Dichloroethene
Concen: 1.510 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX013983.D
Acq: 12 Dec 2019 18:19

Tgt Ion: 96 Resp: 7928
Ion Ratio Lower Upper
96 100
61 132.3 126.6 190.0
98 56.7 50.6 76.0

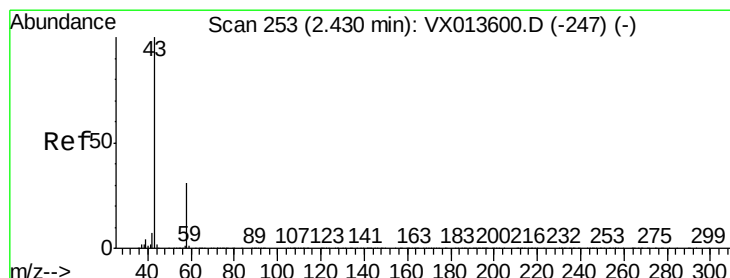
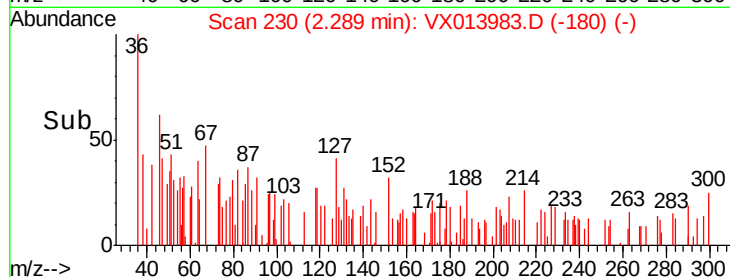
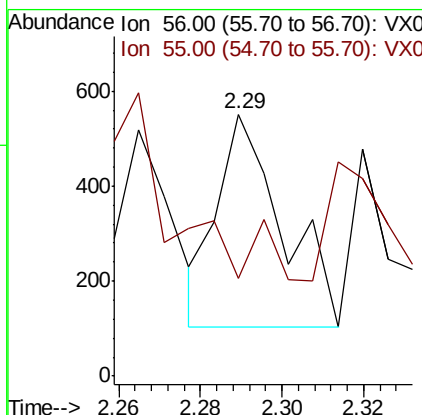
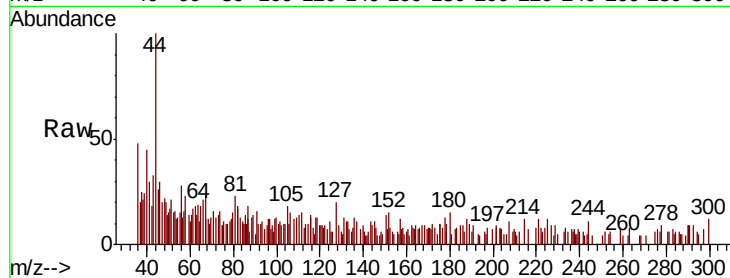




#13
Acrolein
Concen: 6.461 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX013983.D
Acq: 12 Dec 2019 18:19

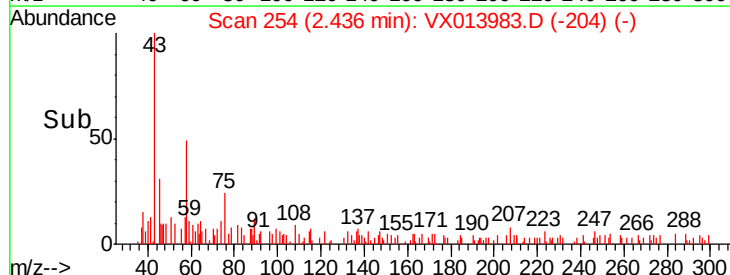
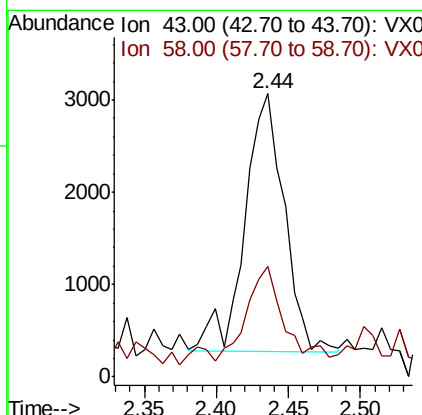
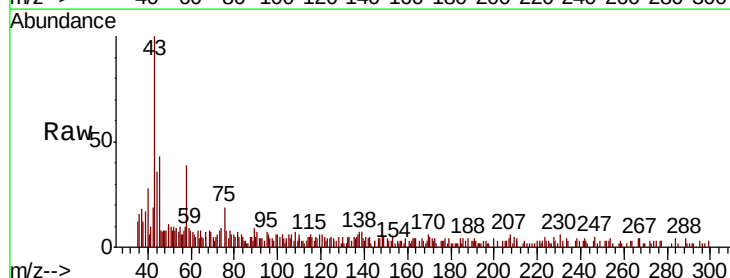
Instrument :
MSVOA_X
ClientSampleId :
RE132D4-20191209

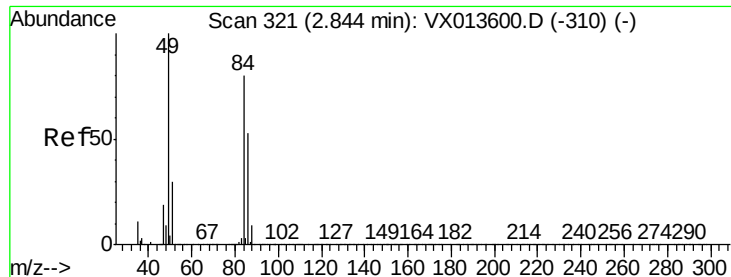
Tot Ion: 56 Resp: 495
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#



#16
Acetone
Concen: 1.670 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX013983.D
Acq: 12 Dec 2019 18:19

Tgt Ion: 43 Resp: 5280
Ion Ratio Lower Upper
43 100
58 34.5 24.6 36.8

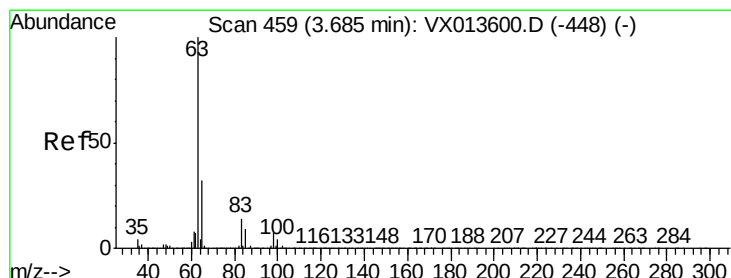
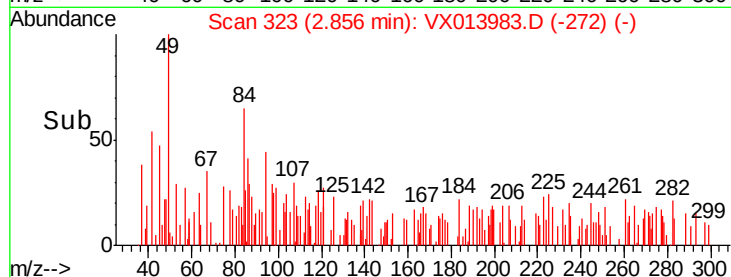
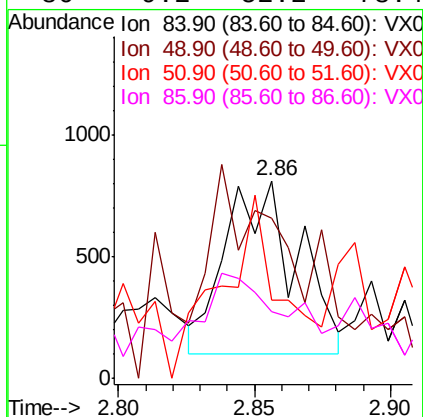
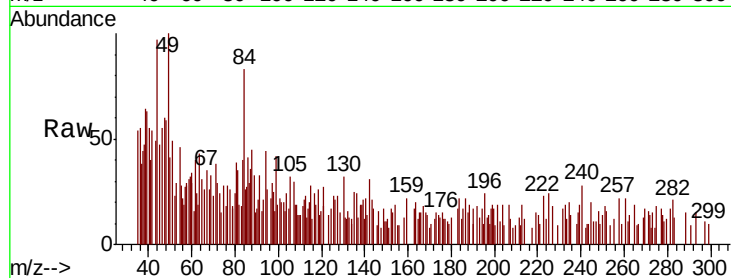




#20
Methylene Chloride
Concen: 0.213 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX013983.D
Acq: 12 Dec 2019 18:19

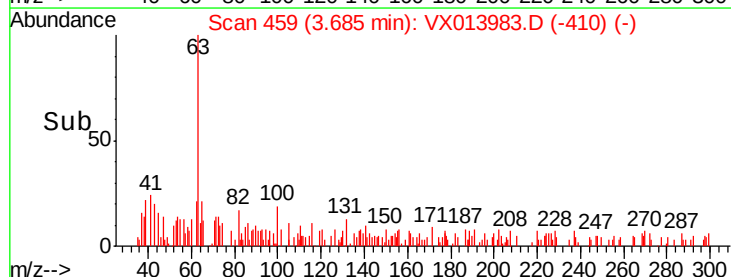
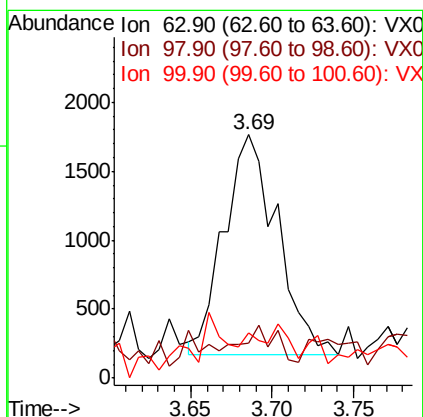
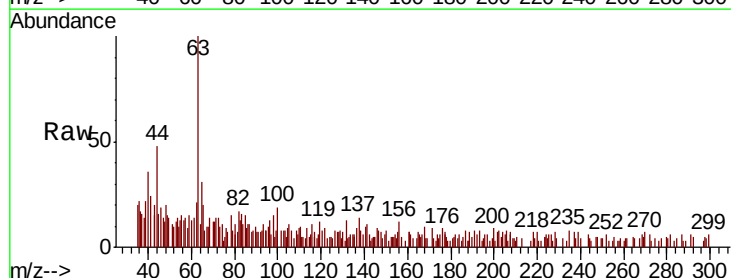
Instrument :
MSVOA_X
ClientSampleId :
RE132D4-20191209

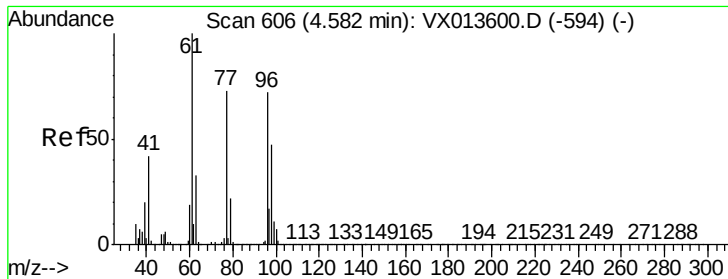
Tot Ion: 84 Resp: 1294
Ion Ratio Lower Upper
84 100
49 69.3 99.7 149.5#
51 8.5 29.9 44.9#
86 9.2 52.2 78.4#



#24
1,1-Dichloroethane
Concen: 0.362 ug/l
RT: 3.69 min Scan# 459
Delta R.T. 0.00 min
Lab File: VX013983.D
Acq: 12 Dec 2019 18:19

Tgt Ion: 63 Resp: 3626
Ion Ratio Lower Upper
63 100
98 6.4 3.5 10.4
100 10.1 2.1 6.3#



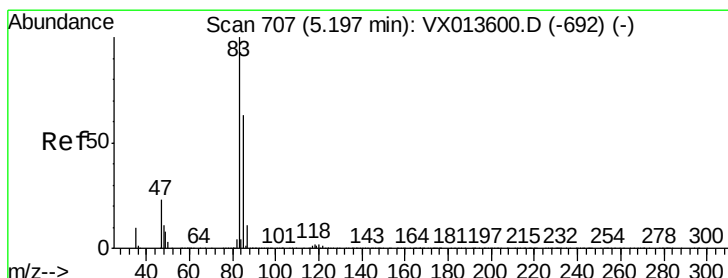
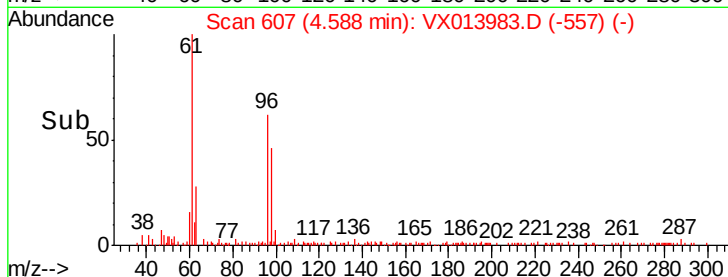
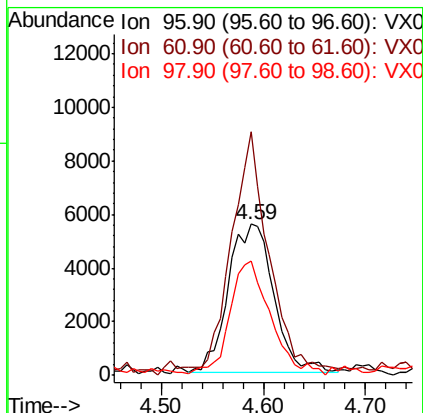
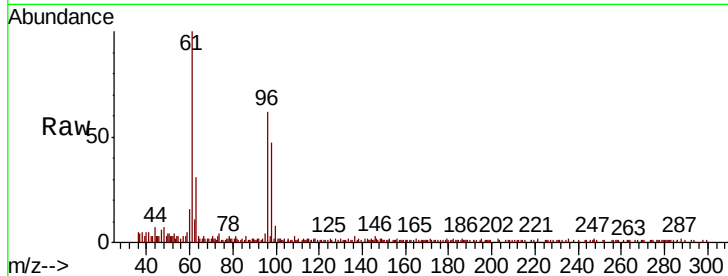


#27

cis-1,2-Dichloroethene
Concen: 2.633 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013983.D
Acq: 12 Dec 2019 18:19

Instrument :
MSVOA_X
ClientSampleId :
RE132D4-20191209

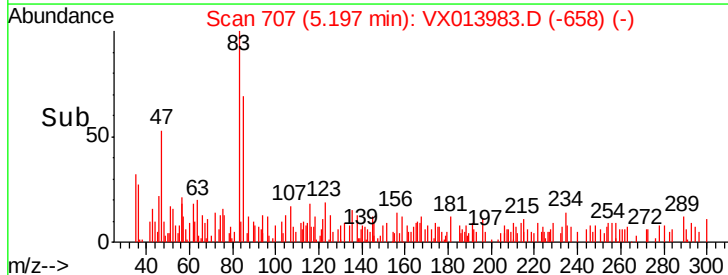
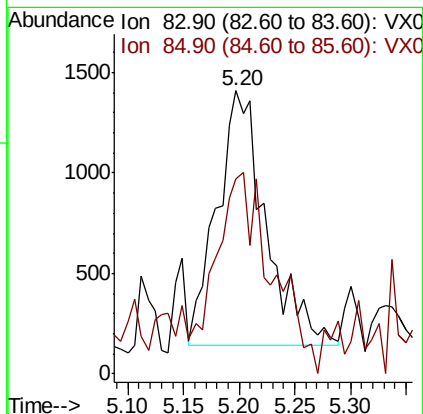
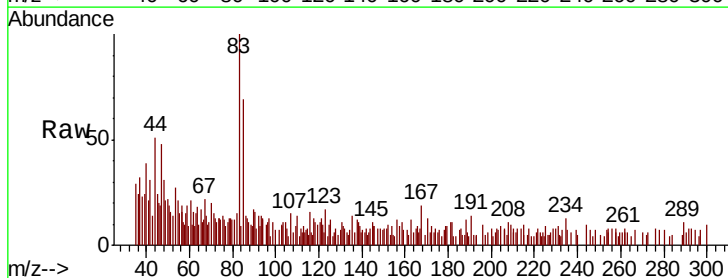
Tot Ion	Ratio	Lower	Upper
96	100		
61	129.7	0.0	286.4
98	64.0	0.0	127.4

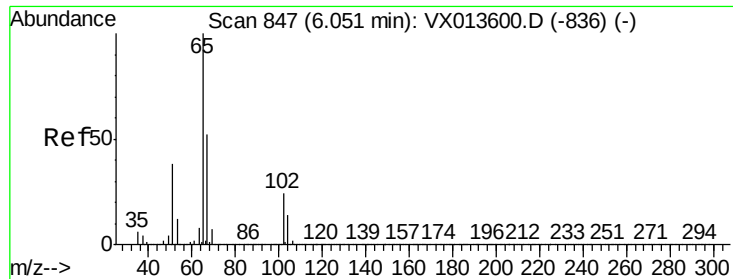


#30

Chloroform
Concen: 0.378 ug/l
RT: 5.20 min Scan# 707
Delta R.T. 0.00 min
Lab File: VX013983.D
Acq: 12 Dec 2019 18:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.2	75.4

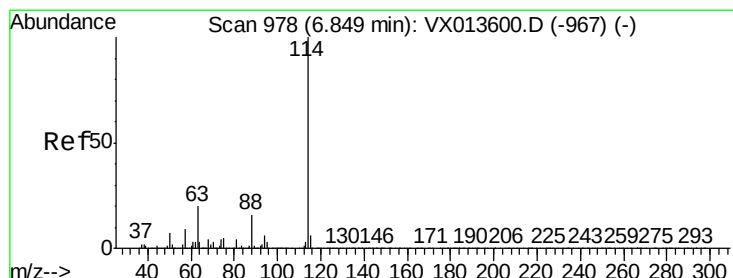
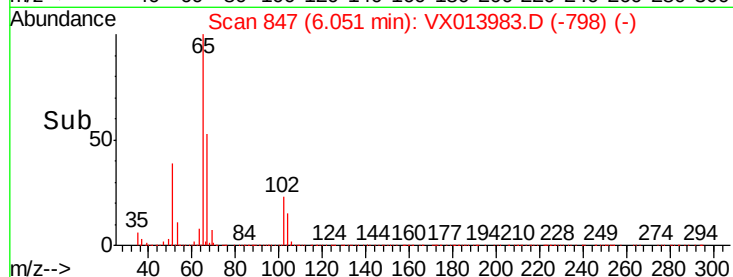
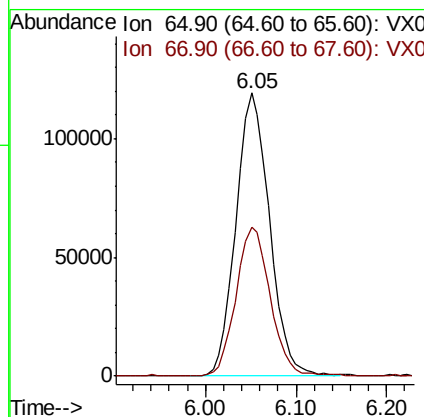
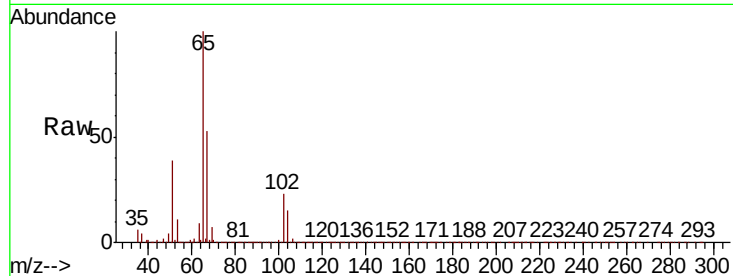




#33
 1,2-Dichloroethane-d4
 Concen: 47.727 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX013983.D
 Acq: 12 Dec 2019 18:19

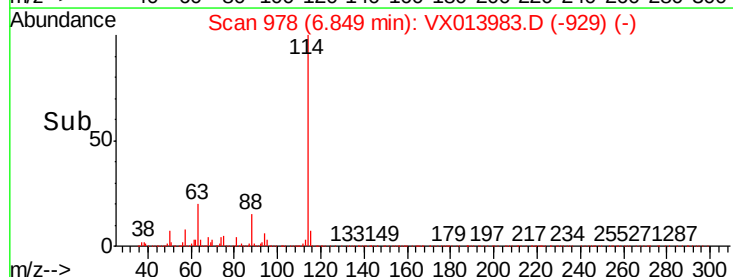
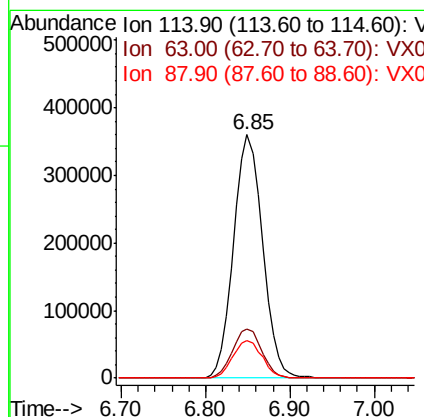
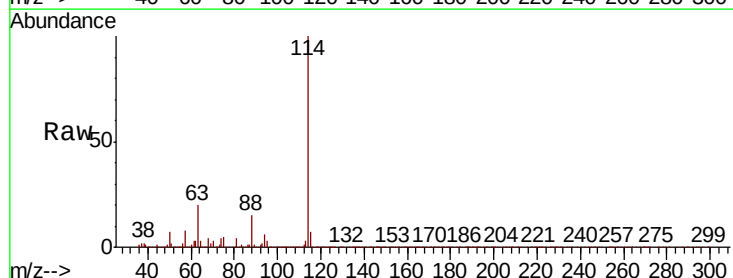
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D4-20191209

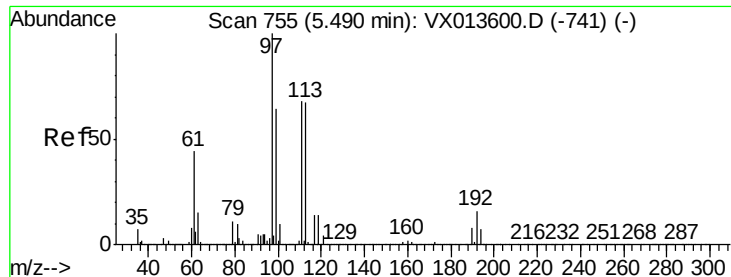
Tot Ion: 65 Resp: 305619
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013983.D
 Acq: 12 Dec 2019 18:19

Tgt Ion: 114 Resp: 840022
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.6
 88 15.2 0.0 31.4





#35

Dibromofluoromethane

Concen: 47.761 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013983.D

Acq: 12 Dec 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

RE132D4-20191209

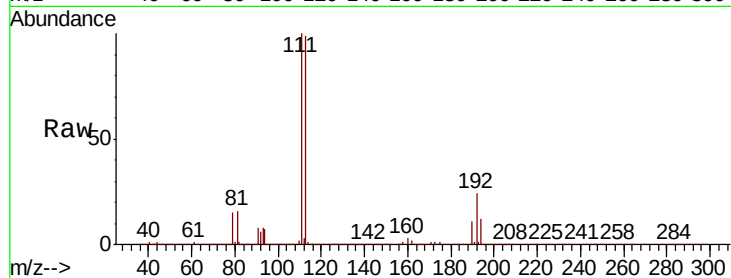
Tot Ion:113 Resp: 248027

Ion Ratio Lower Upper

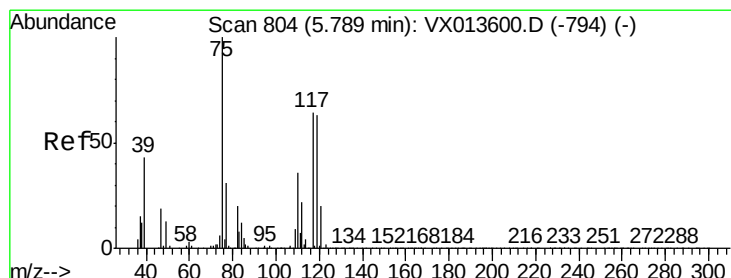
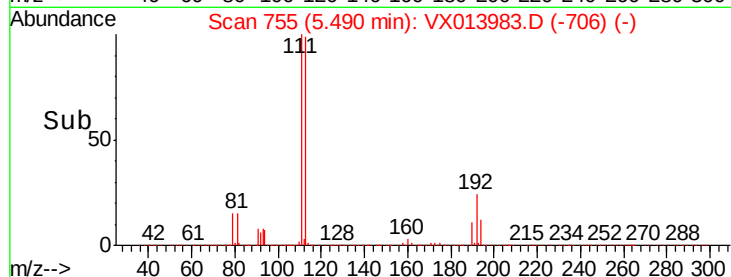
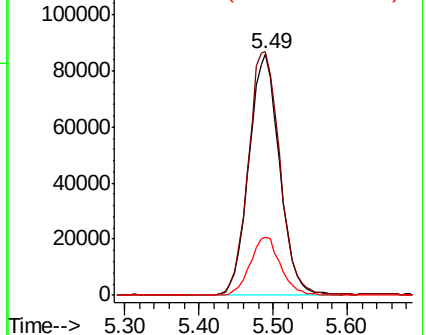
113 100

111 103.5 83.6 125.4

192 24.0 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.871 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013983.D

Acq: 12 Dec 2019 18:19

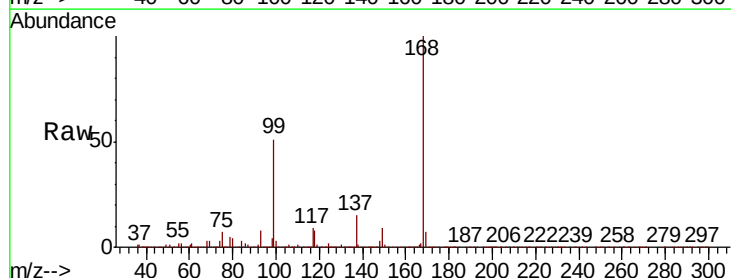
Tgt Ion: 75 Resp: 37145

Ion Ratio Lower Upper

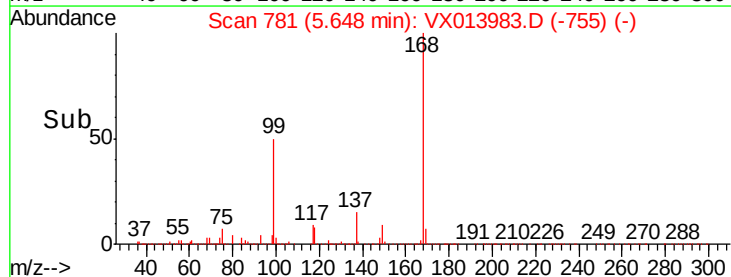
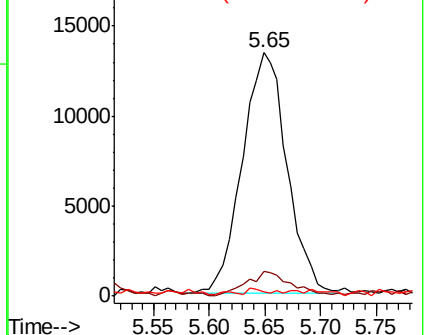
75 100

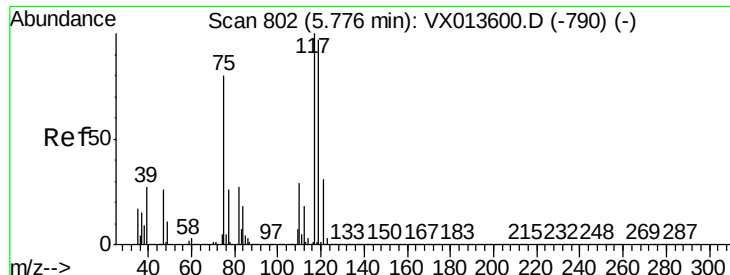
110 10.3 18.1 54.1#

77 0.2 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 0.360 ug/l

RT: 5.78 min Scan# 802

Delta R.T. 0.00 min

Lab File: VX013983.D

Acq: 12 Dec 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

RE132D4-20191209

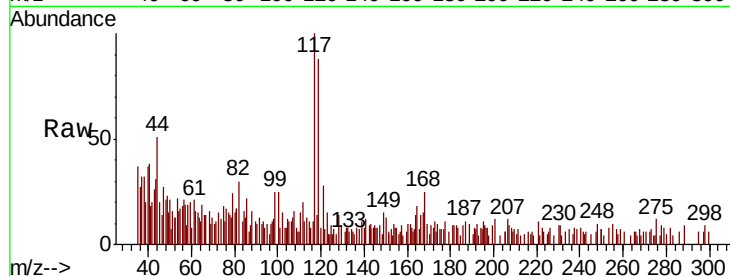
Tot Ion:117 Resp: 2530

Ion Ratio Lower Upper

117 100

119 92.6 77.5 116.3

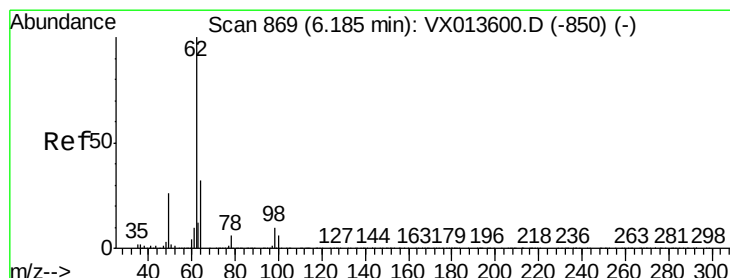
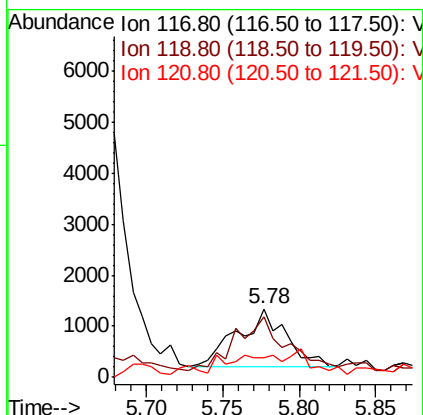
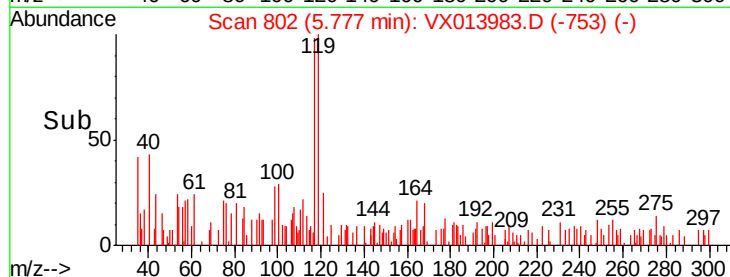
121 15.2 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#42

1,2-Dichloroethane

Concen: 0.293 ug/l

RT: 6.17 min Scan# 867

Delta R.T. -0.01 min

Lab File: VX013983.D

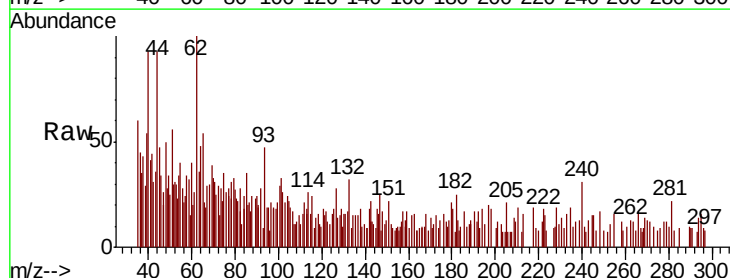
Acq: 12 Dec 2019 18:19

Tgt Ion: 62 Resp: 2321

Ion Ratio Lower Upper

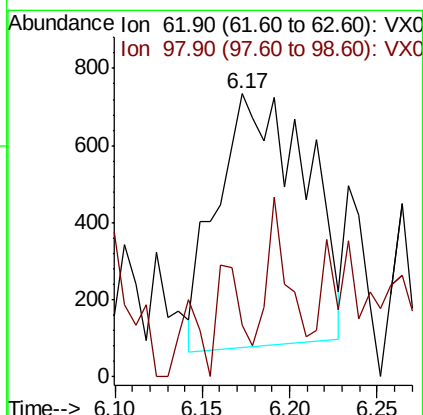
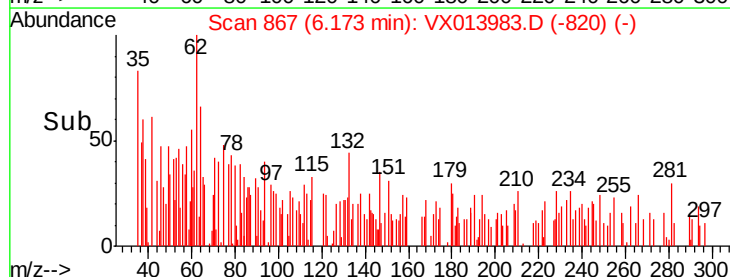
62 100

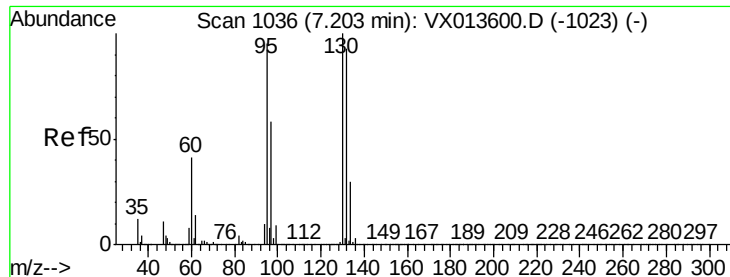
98 12.5 0.0 20.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 229.286 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013983.D

Acq: 12 Dec 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

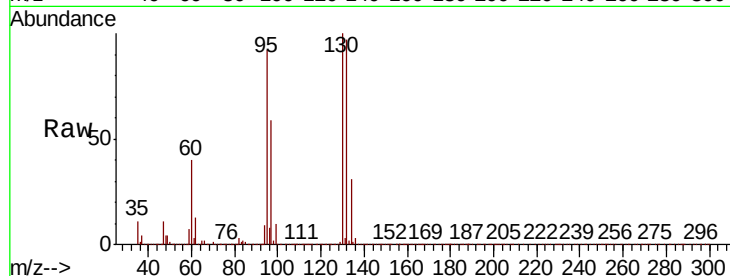
RE132D4-20191209

Tot Ion:130 Resp: 1461423

Ion Ratio Lower Upper

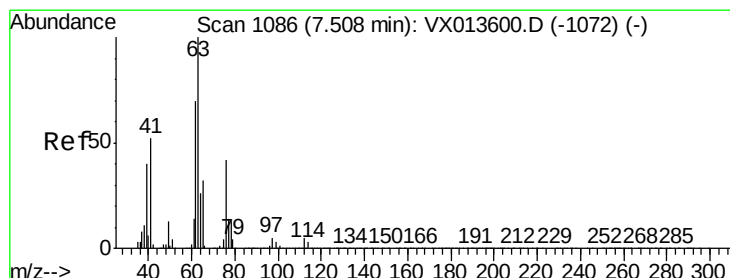
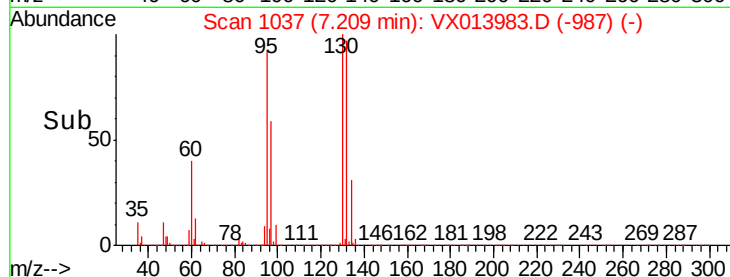
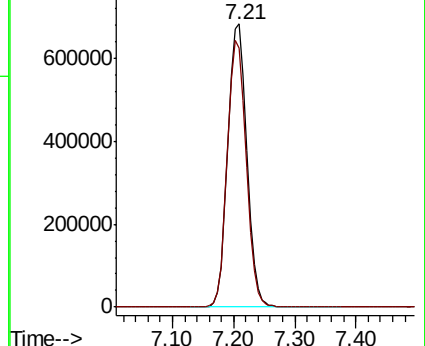
130 100

95 91.6 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#45

1,2-Dichloropropane

Concen: 0.208 ug/l

RT: 7.50 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VX013983.D

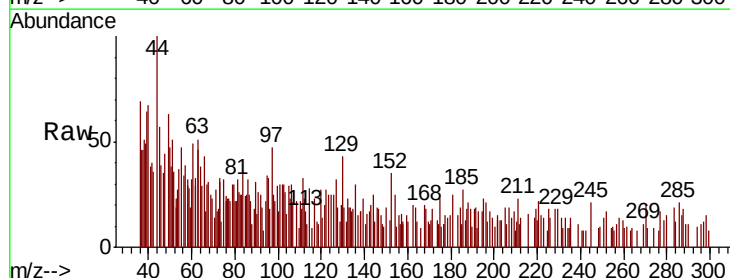
Acq: 12 Dec 2019 18:19

Tgt Ion: 63 Resp: 1210

Ion Ratio Lower Upper

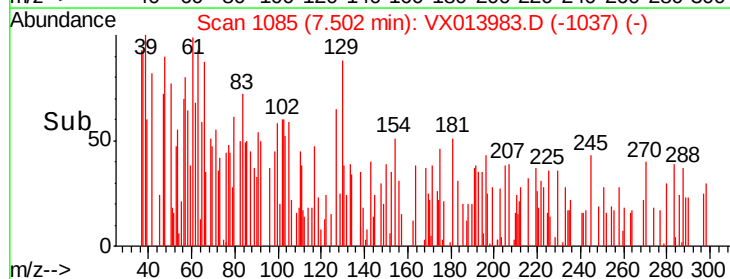
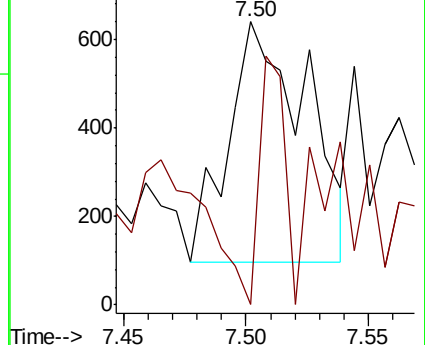
63 100

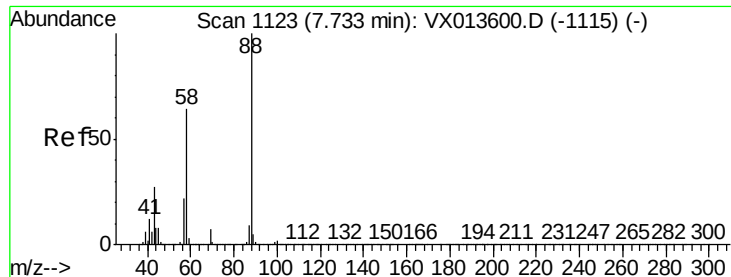
65 5.9 25.5 38.3#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0





#49

1,4-Dioxane

Concen: 23.425 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013983.D

Acq: 12 Dec 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

RE132D4-20191209

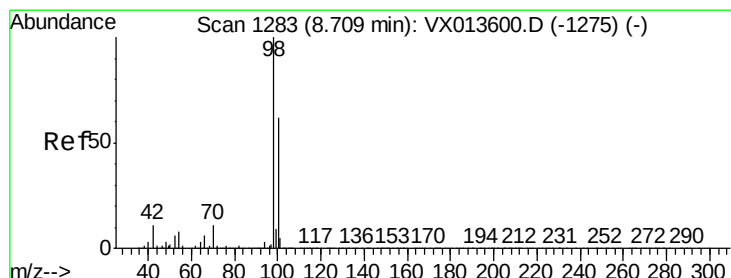
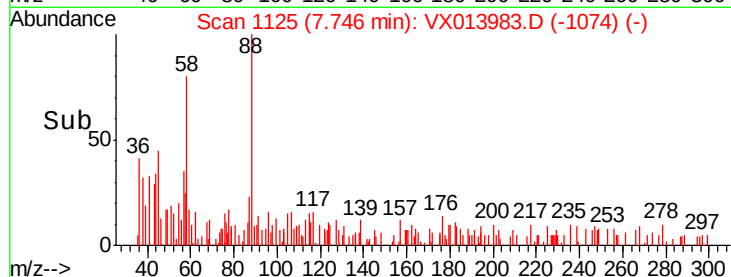
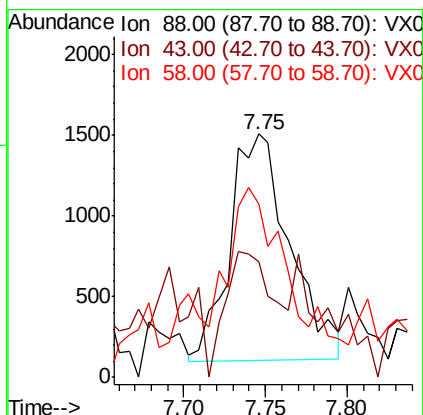
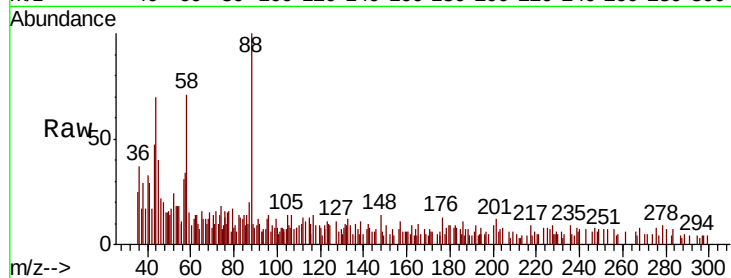
Tot Ion: 88 Resp: 3588

Ion Ratio Lower Upper

88 100

43 45.8 25.8 38.6#

58 61.7 54.6 82.0



#50

Toluene-d8

Concen: 49.267 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013983.D

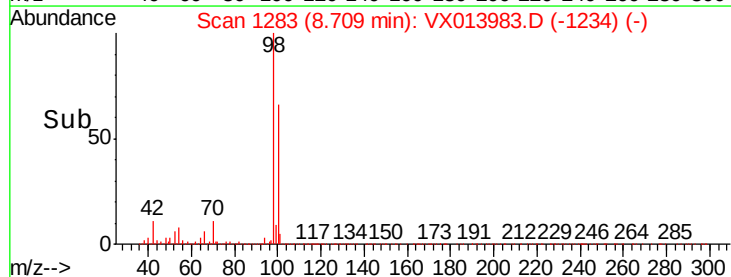
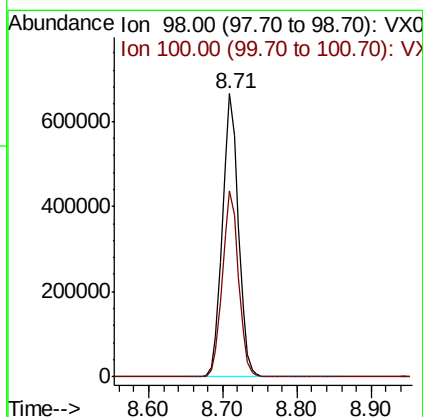
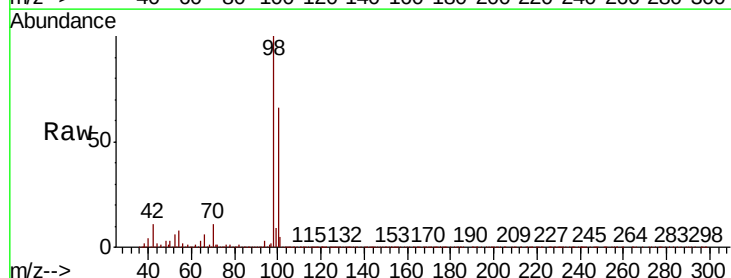
Acq: 12 Dec 2019 18:19

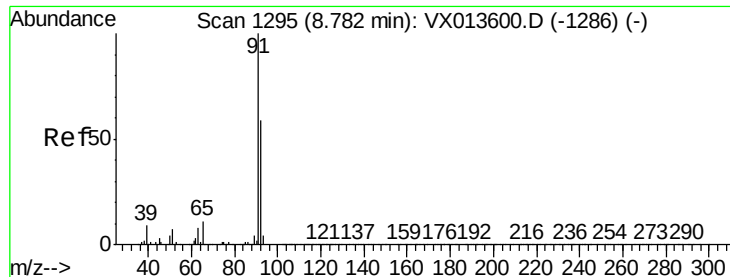
Tgt Ion: 98 Resp: 996819

Ion Ratio Lower Upper

98 100

100 65.9 53.1 79.7





#52

Toluene

Concen: 6.232 ug/l

RT: 8.78 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VX013983.D

Acq: 12 Dec 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

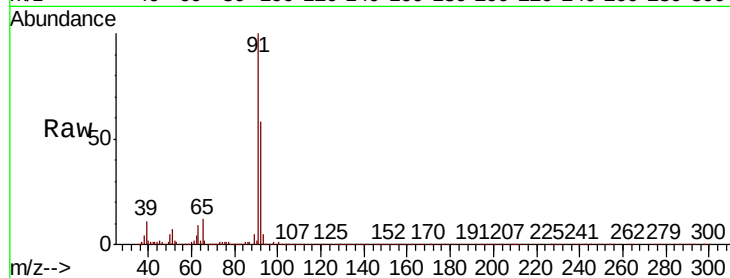
RE132D4-20191209

Tot Ion: 92 Resp: 89915

Ion Ratio Lower Upper

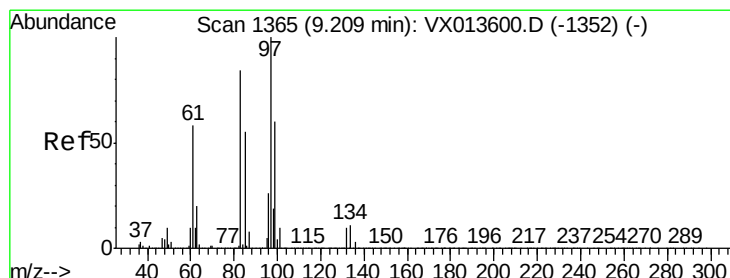
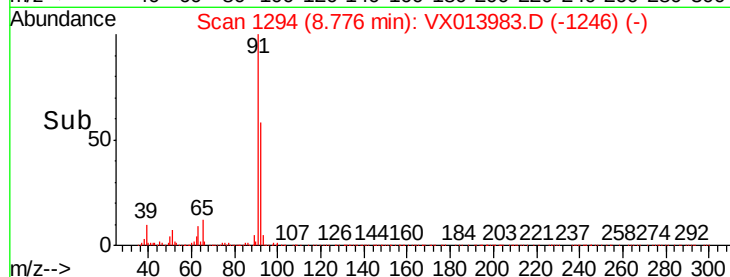
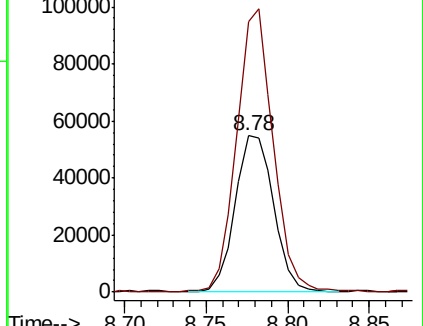
92 100

91 170.8 136.2 204.2



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#55

1,1,2-Trichloroethane

Concen: 0.293 ug/l

RT: 9.21 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VX013983.D

Acq: 12 Dec 2019 18:19

Tgt Ion: 97 Resp: 1702

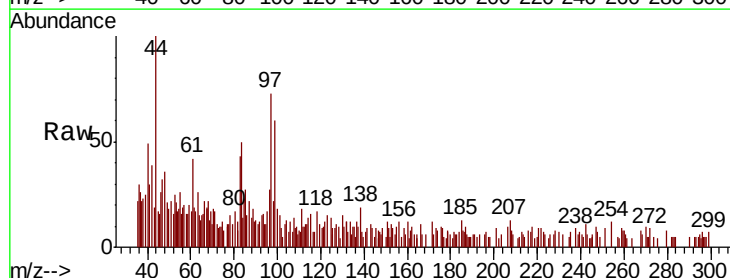
Ion Ratio Lower Upper

97 100

83 108.2 67.3 100.9#

85 52.2 43.6 65.4

99 64.6 48.2 72.4

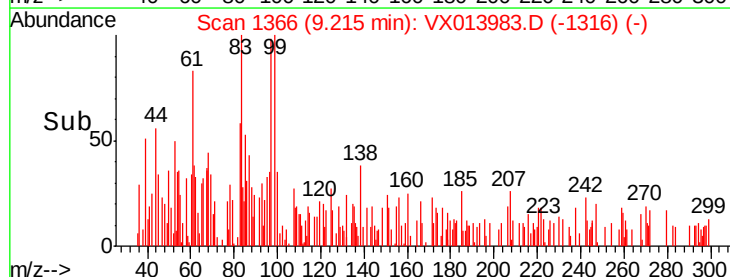
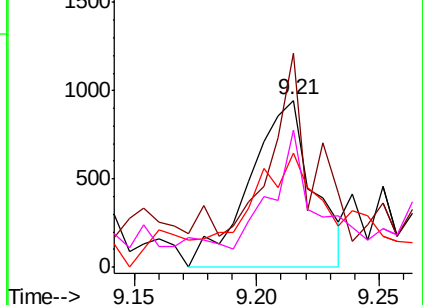


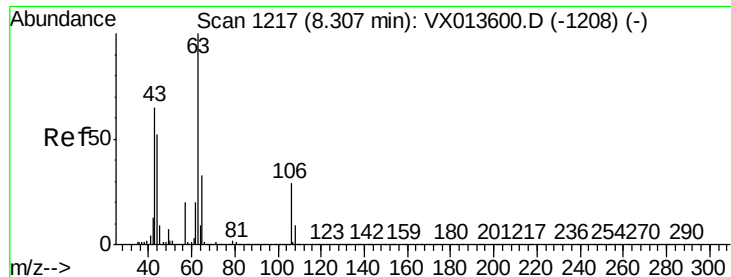
Abundance Ion 96.90 (96.60 to 97.60): VX0

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

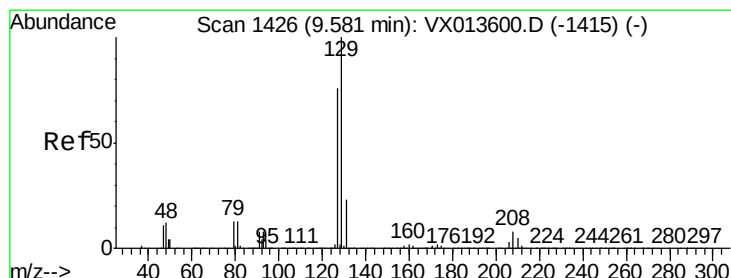
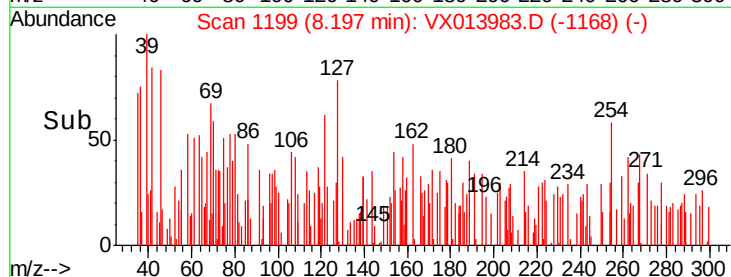
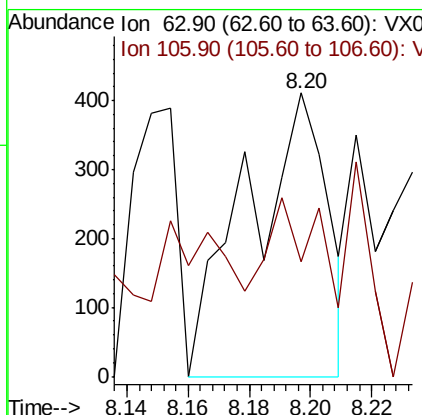
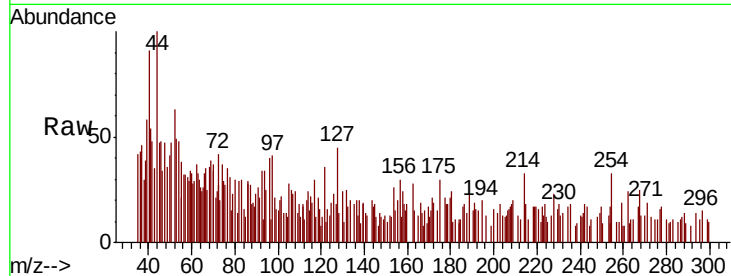




#58
 2-Chloroethyl Vinyl ether
 Concen: 0.205 ug/l
 RT: 8.20 min Scan# 1199
 Delta R.T. -0.11 min
 Lab File: VX013983.D
 Acq: 12 Dec 2019 18:19

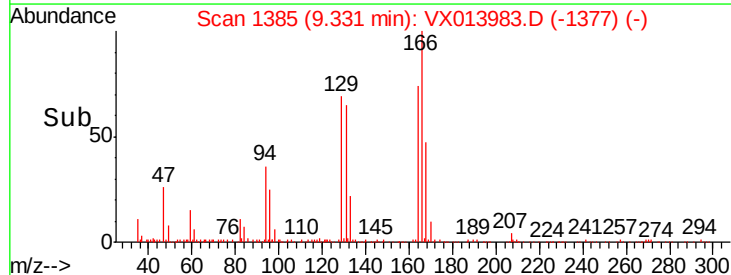
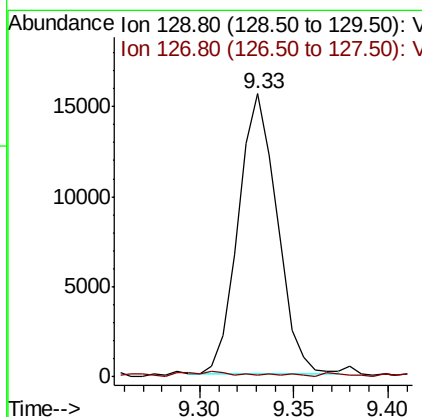
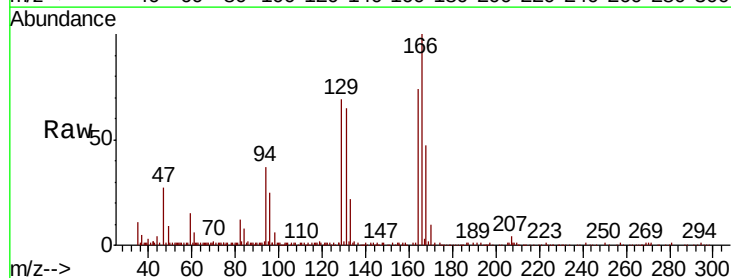
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D4-20191209

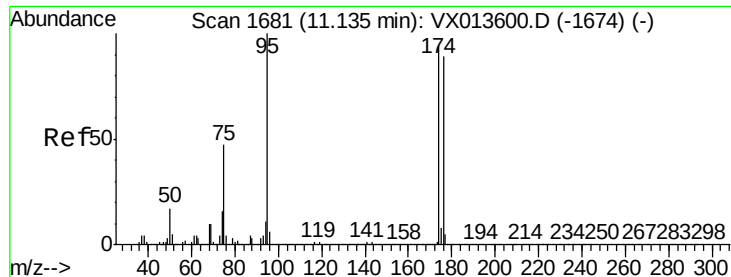
Tot Ion: 63 Resp: 752
 Ion Ratio Lower Upper
 63 100
 106 33.8 23.4 35.0



#60
 Dibromochloromethane
 Concen: 3.707 ug/l
 RT: 9.33 min Scan# 1385
 Delta R.T. -0.25 min
 Lab File: VX013983.D
 Acq: 12 Dec 2019 18:19

Tgt Ion: 129 Resp: 22370
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.5#

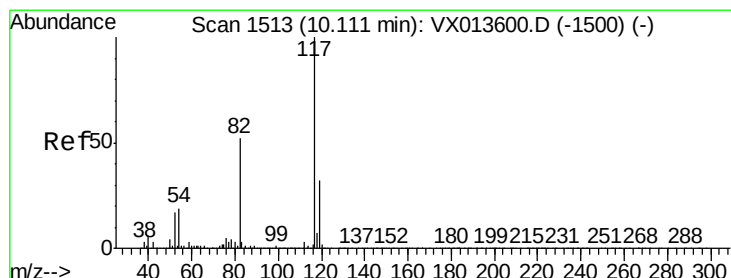
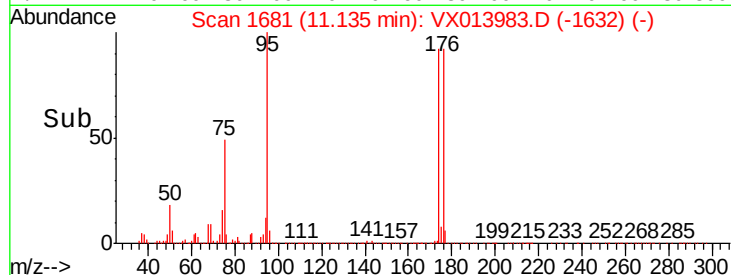
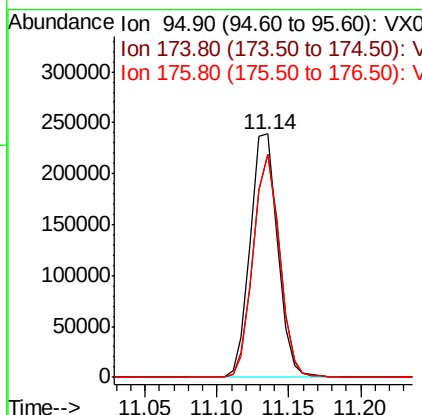
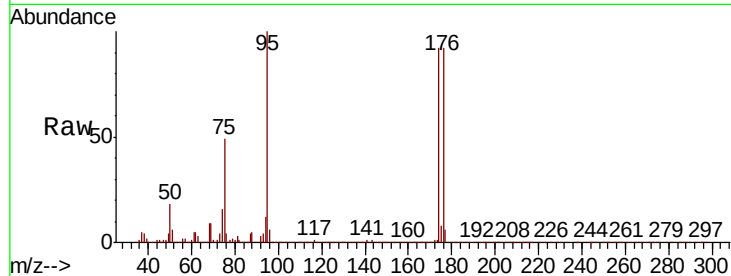




#62
4-Bromofluorobenzene
Concen: 43.178 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013983.D
Acq: 12 Dec 2019 18:19

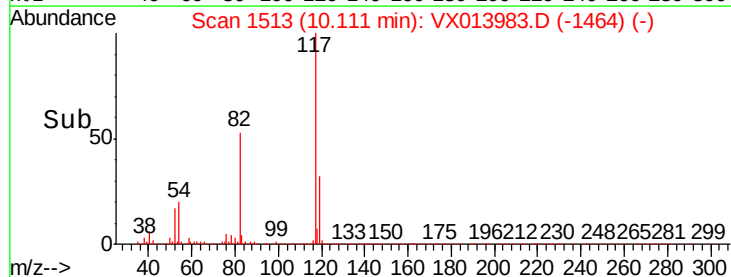
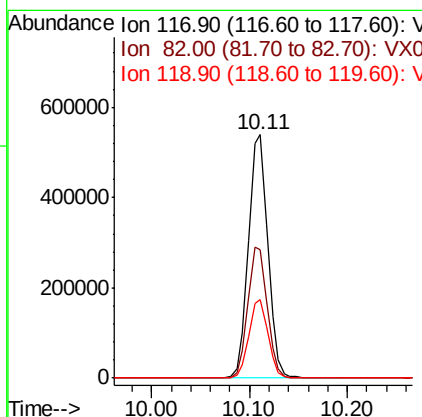
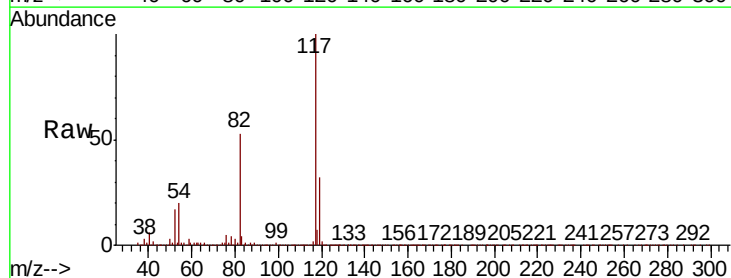
Instrument :
MSVOA_X
ClientSampleId :
RE132D4-20191209

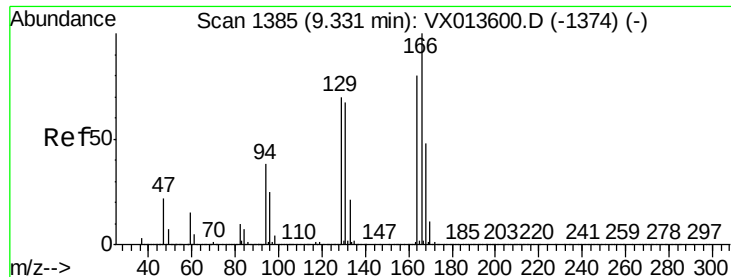
Tot Ion: 95 Resp: 315031
Ion Ratio Lower Upper
95 100
174 88.5 0.0 180.0
176 87.7 0.0 173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013983.D
Acq: 12 Dec 2019 18:19

Tgt Ion: 117 Resp: 742686
Ion Ratio Lower Upper
117 100
82 52.5 41.8 62.8
119 32.4 25.8 38.8





#64

Tetrachloroethene

Concen: 4.394 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013983.D

Acq: 12 Dec 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

RE132D4-20191209

Tot Ion:164 Resp: 24338

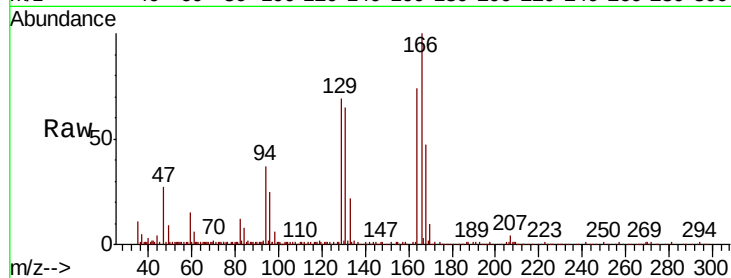
Ion Ratio Lower Upper

164 100

166 137.0 99.7 149.5

129 93.0 70.1 105.1

131 89.2 66.9 100.3

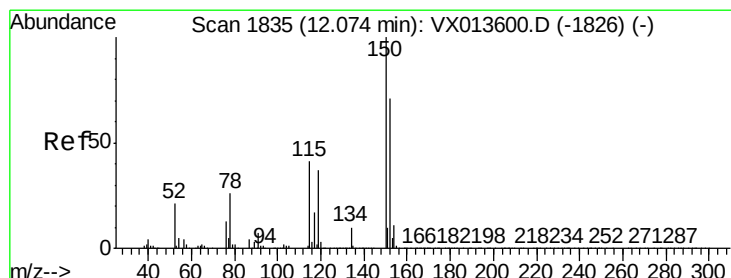
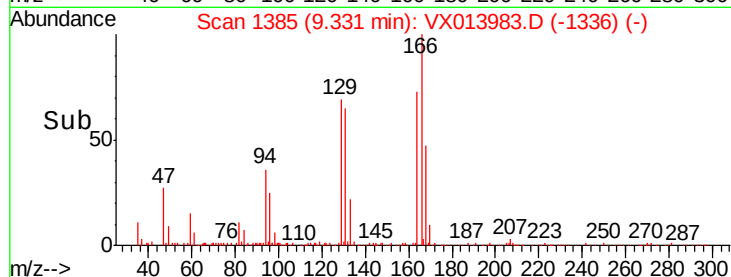
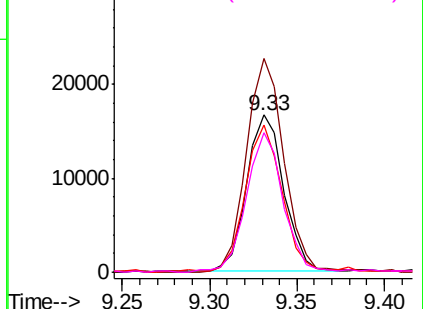


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX013983.D

Acq: 12 Dec 2019 18:19

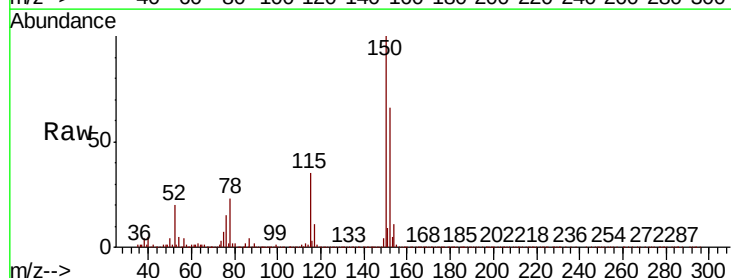
Tgt Ion:152 Resp: 308070

Ion Ratio Lower Upper

152 100

115 54.5 38.4 115.1

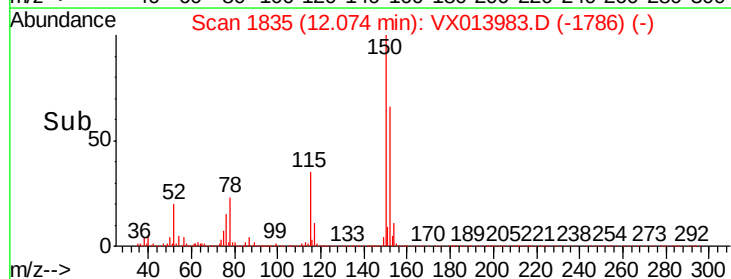
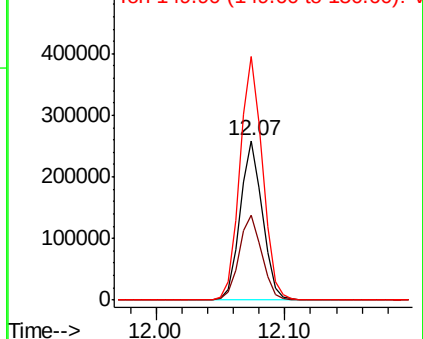
150 156.0 0.0 346.8

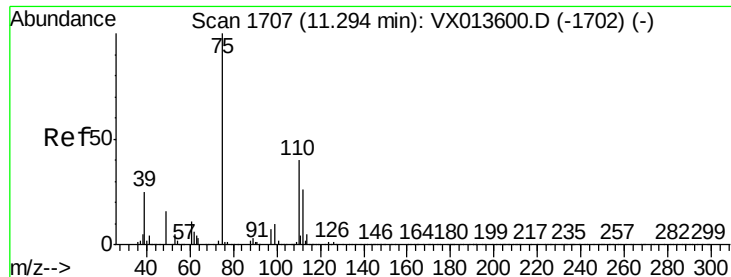


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.519 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013983.D

Acq: 12 Dec 2019 18:19

Instrument :

MSVOA_X

ClientSampleId :

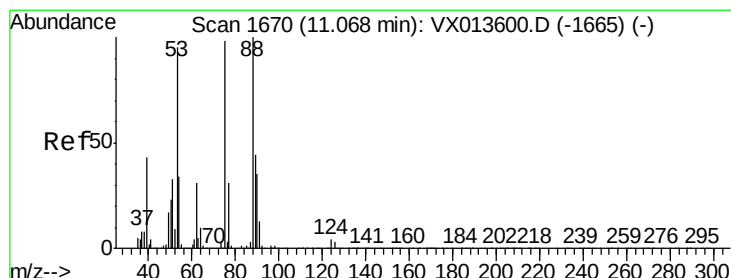
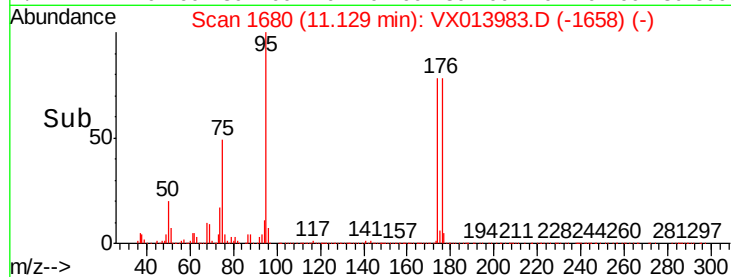
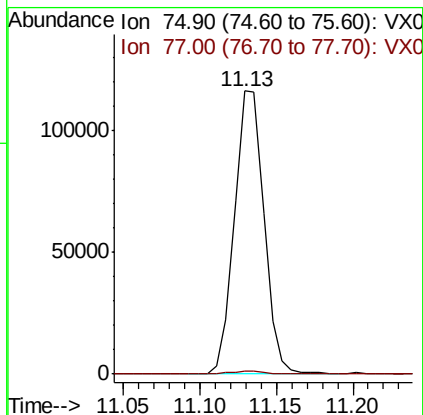
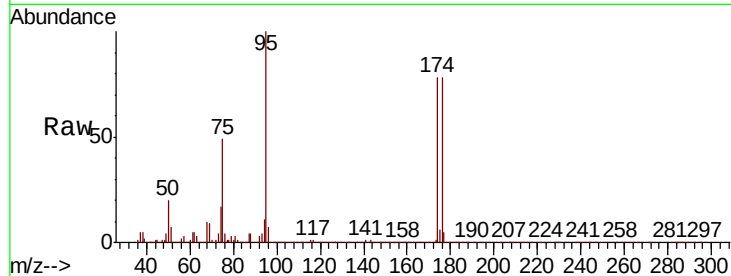
RE132D4-20191209

Tot Ion: 75 Resp: 156037

Ion Ratio Lower Upper

75 100

77 1.4 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.609 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013983.D

Acq: 12 Dec 2019 18:19

Tgt Ion: 75 Resp: 156037

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

89 0.3 35.4 53.2#

