

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020720\
 Data File : VX014866.D
 Acq On : 07 Feb 2020 13:18
 Operator : JC/SP
 Sample : IBLK
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 07 22:11:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	81685	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	461974	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	406609	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	177612	30.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.10%
60) 4-Bromofluorobenzene	11.13	95	187618	28.84	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.13%
63) Toluene-d8	8.71	98	534941	29.13	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.10%

Target Compounds

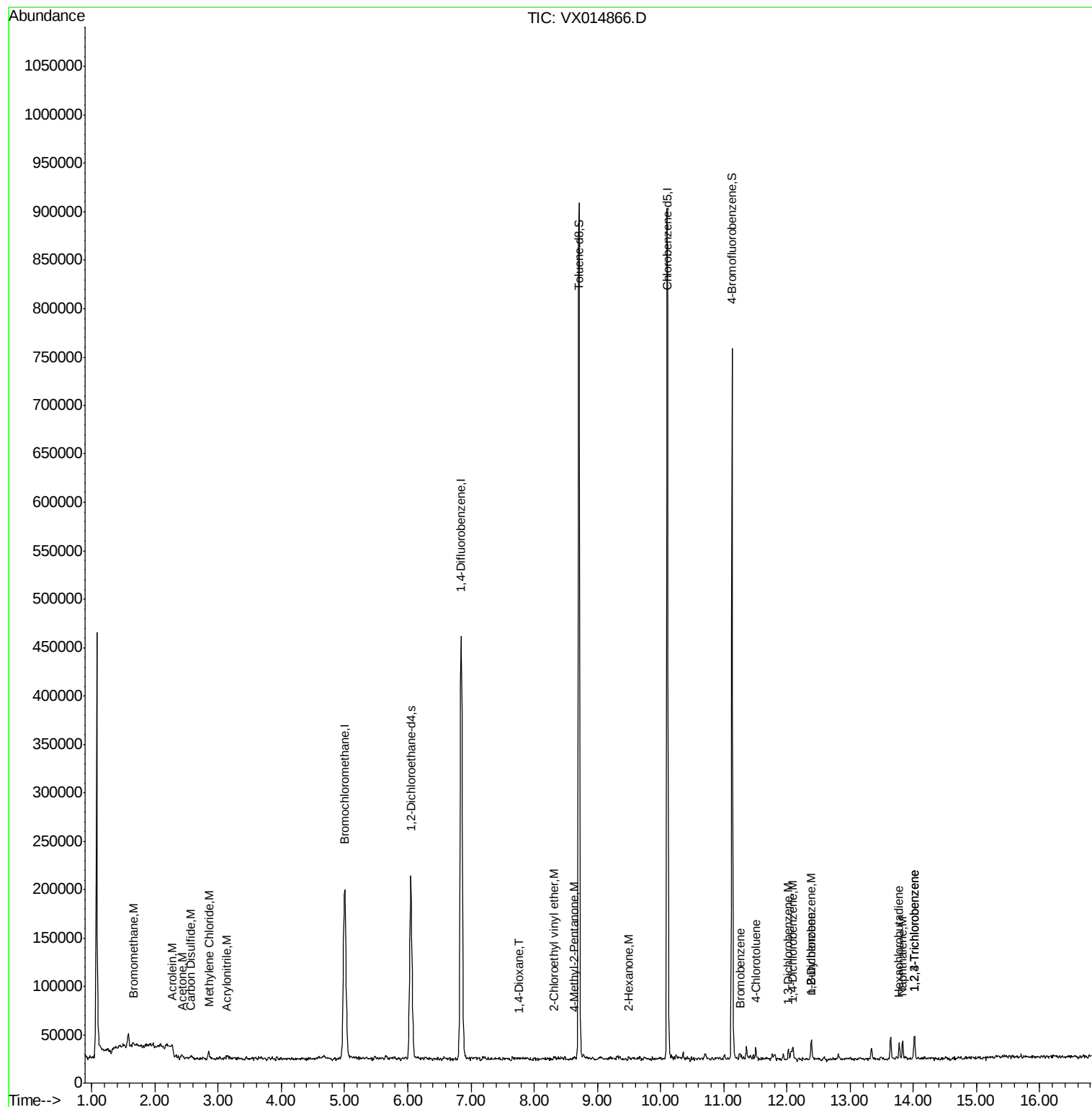
					Ovalue
5) Bromomethane	1.66	94	2295	0.530 ug/l	84
13) Acrolein	2.28	56	804	0.937 ug/l	86
14) Acrylonitrile	3.13	53	1316	0.471 ug/l	70
15) Acetone	2.44	58	1097	1.171 ug/l #	59
16) Carbon Disulfide	2.56	76	3695	0.298 ug/l	97
18) Methylene Chloride	2.85	84	3164	0.598 ug/l	92
45) 1,4-Dioxane	7.75	88	204	1.627 ug/l #	56
55) 2-Chloroethyl vinyl ether	8.31	63	1240	0.325 ug/l #	78
58) 4-Methyl-2-Pentanone	8.64	43	2295	0.300 ug/l #	94
59) 2-Hexanone	9.50	43	1856	0.313 ug/l #	90
73) Bromobenzene	11.25	156	1939	0.319 ug/l	98
78) 4-Chlorotoluene	11.51	91	4252	0.238 ug/l	88
83) 1,3-Dichlorobenzene	12.02	146	4020	0.378 ug/l	96
84) 1,4-Dichlorobenzene	12.09	146	4810	0.457 ug/l	94
85) n-Butylbenzene	12.39	91	5261	0.297 ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	3313	0.309 ug/l	87
89) 1,2,4-Trichlorobenzene	14.01	180	6967	0.984 ug/l	95
90) Hexachlorobutadiene	13.78	225	2651	0.750 ug/l	93
91) Naphthalene	13.83	128	13799	0.646 ug/l	98
92) 1,2,3-Trichlorobenzene	14.01	180	6967	0.967 ug/l	96

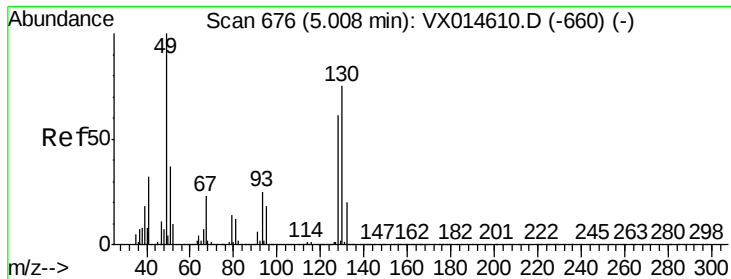
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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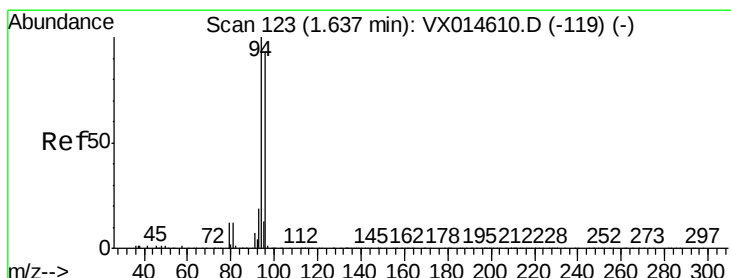
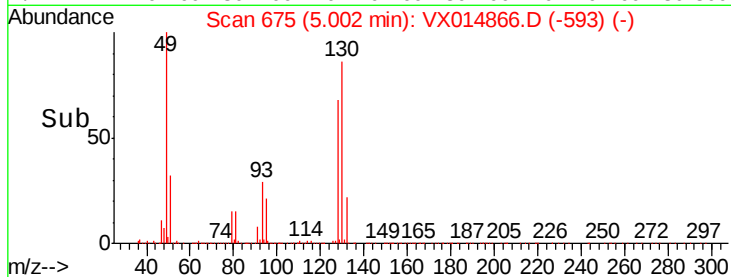
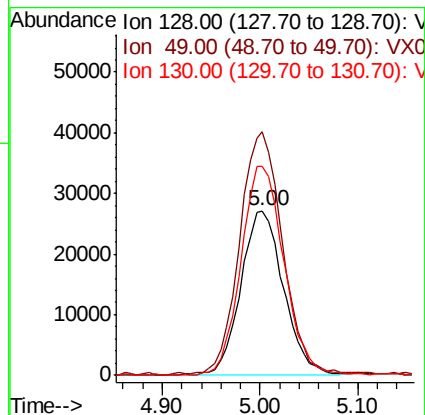
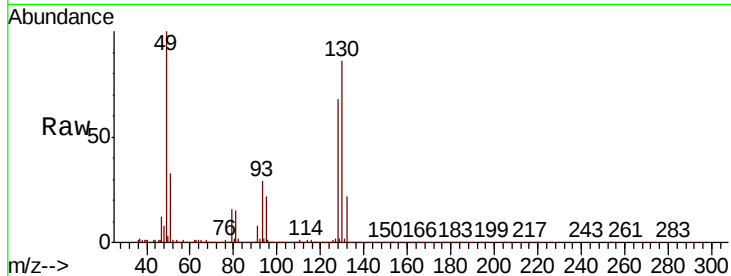


#1

Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.00 min Scan# 675
 Delta R.T. 0.00 min
 Lab File: VX014866.D
 Acq: 07 Feb 2020 13:18

Instrument :
 MSVOA_X
 ClientSampled :

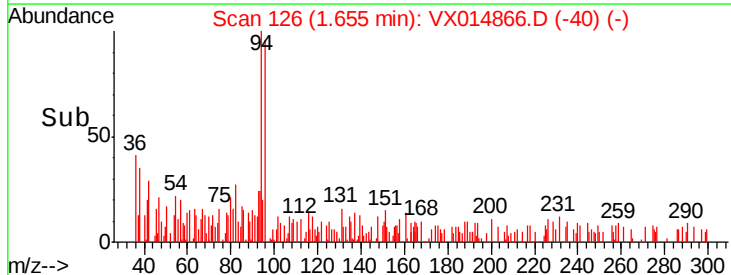
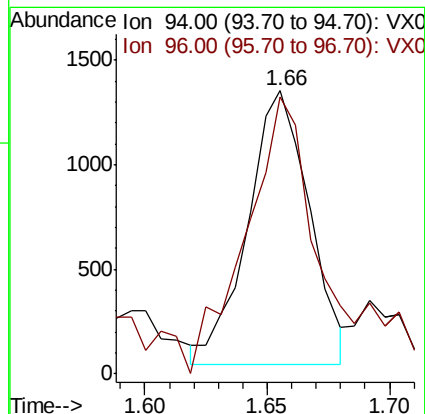
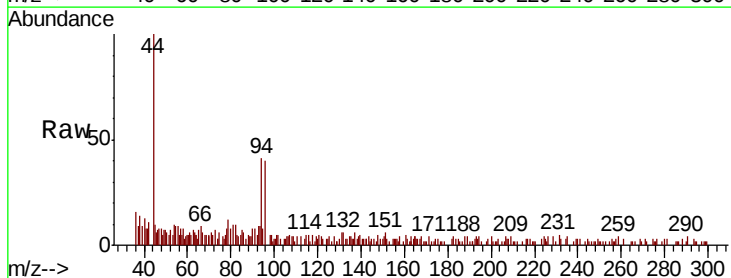
Tot Ion	Ratio	Lower	Upper
128	100		
49	147.8	0.0	405.0
130	128.8	0.0	321.5

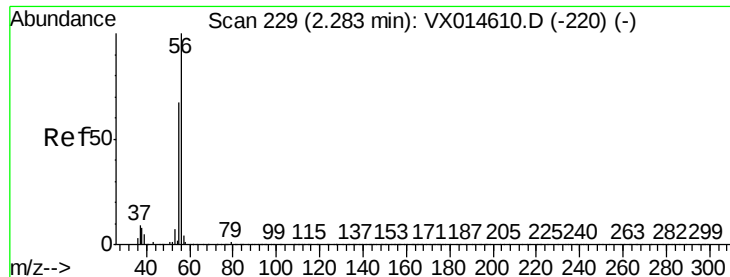


#5

Bromomethane
 Concen: 0.530 ug/l
 RT: 1.66 min Scan# 126
 Delta R.T. 0.02 min
 Lab File: VX014866.D
 Acq: 07 Feb 2020 13:18

Tgt Ion	Ratio	Lower	Upper
94	100		
96	108.8	74.4	111.6





#13

Acrolein

Concen: 0.937 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014866.D

Acq: 07 Feb 2020 13:18

Instrument :

MSVOA_X

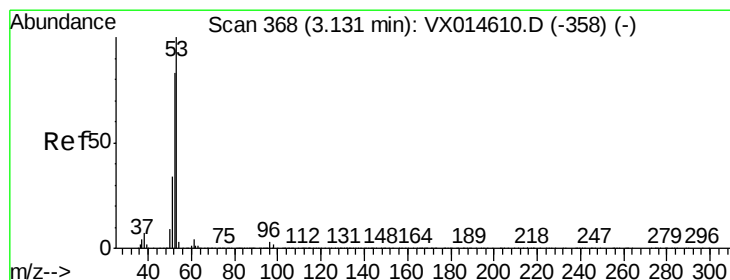
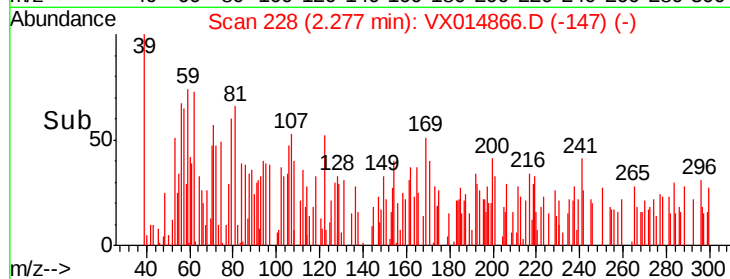
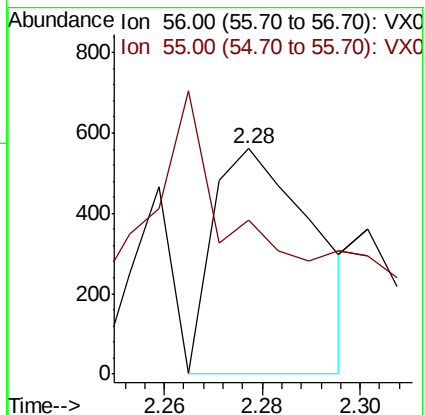
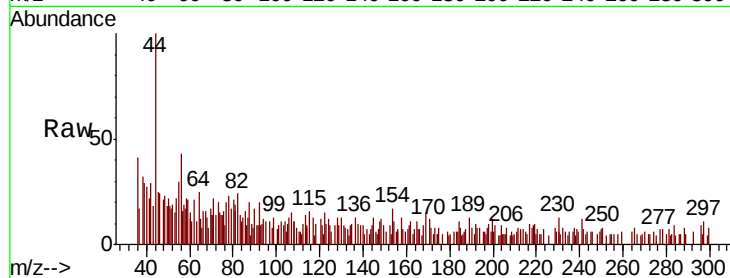
ClientSampleId :

Tot Ion: 56 Resp: 804

Ion Ratio Lower Upper

56 100

55 57.2 54.9 82.3



#14

Acrylonitrile

Concen: 0.471 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX014866.D

Acq: 07 Feb 2020 13:18

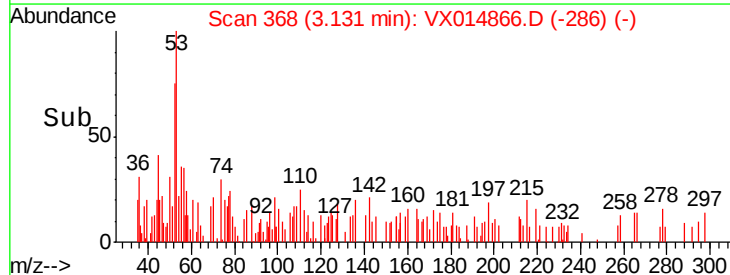
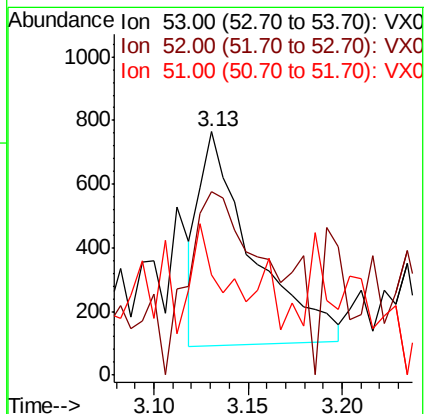
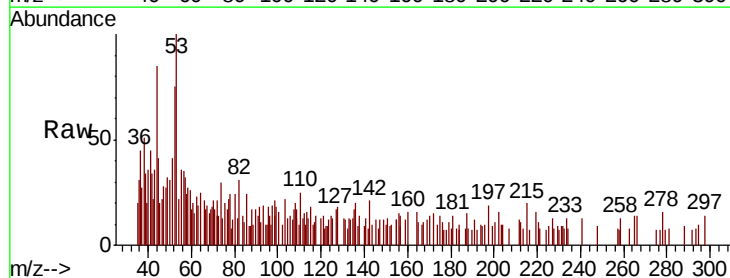
Tgt Ion: 53 Resp: 1316

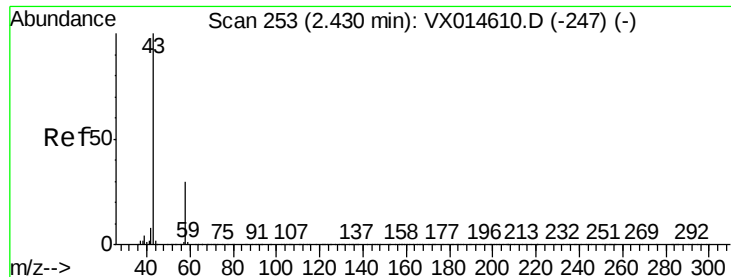
Ion Ratio Lower Upper

53 100

52 112.9 41.5 124.6

51 22.3 17.8 53.5

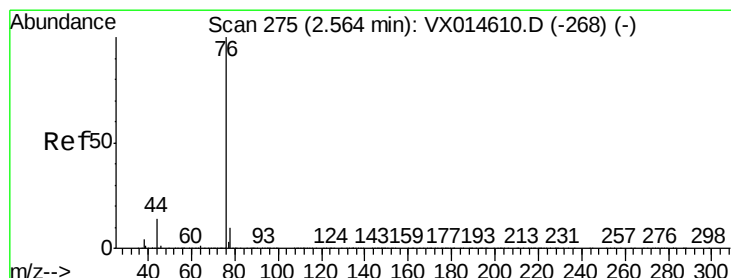
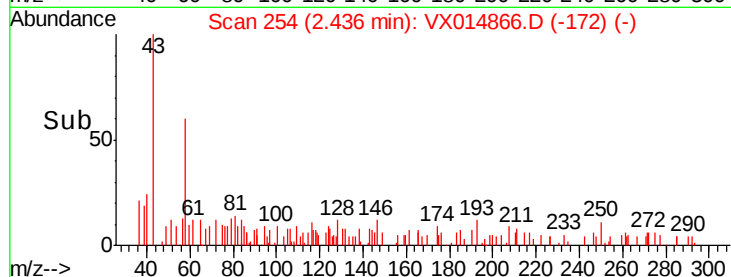
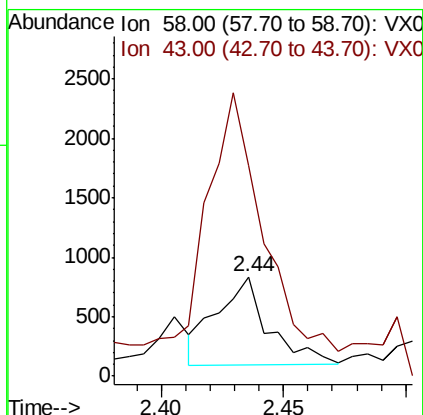
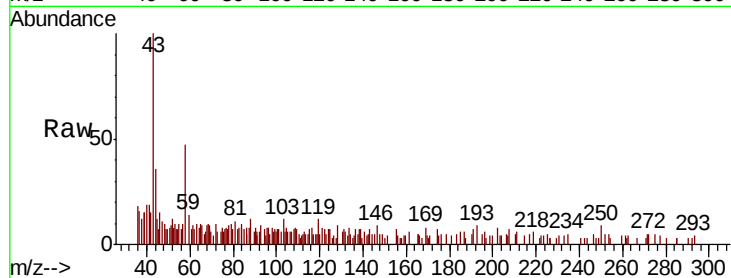




#15
Acetone
Concen: 1.171 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.00 min
Lab File: VX014866.D
Acq: 07 Feb 2020 13:18

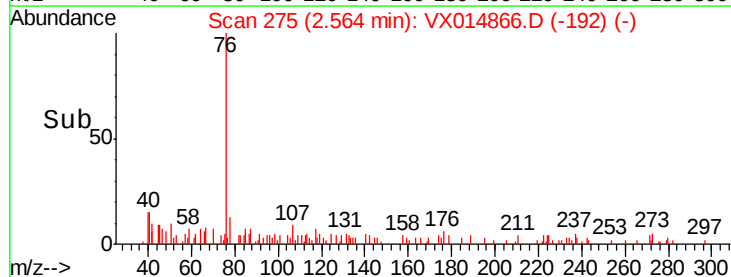
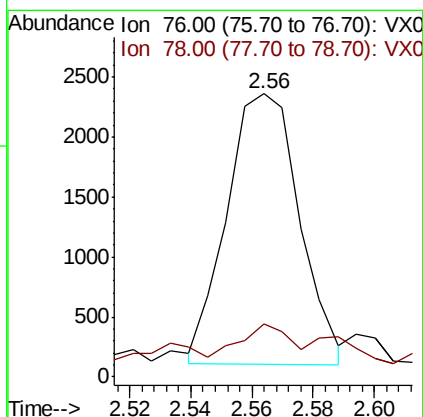
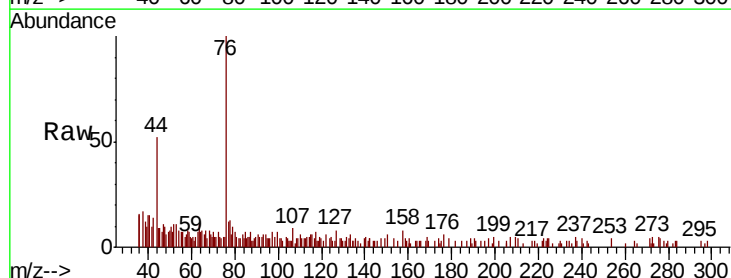
Instrument :
MSVOA_X
ClientSampled :

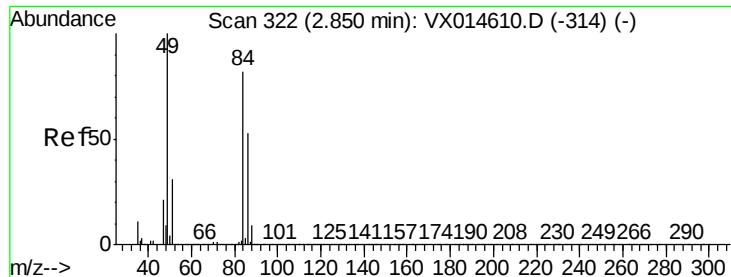
Tot Ion: 58 Resp: 1097
Ion Ratio Lower Upper
58 100
43 215.0 236.3 354.5#



#16
Carbon Disulfide
Concen: 0.298 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX014866.D
Acq: 07 Feb 2020 13:18

Tgt Ion: 76 Resp: 3695
Ion Ratio Lower Upper
76 100
78 8.7 7.8 11.8

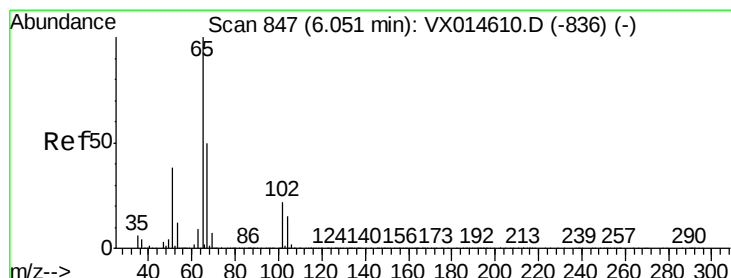
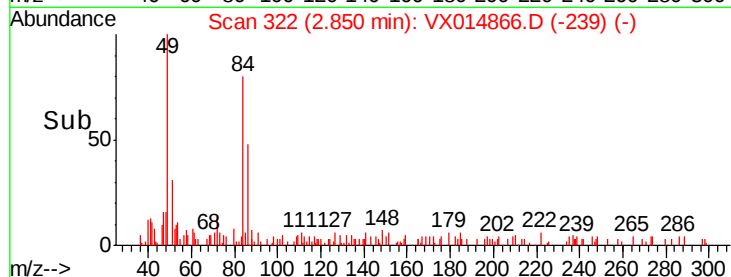
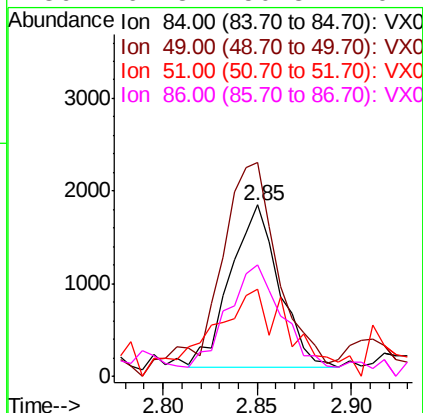
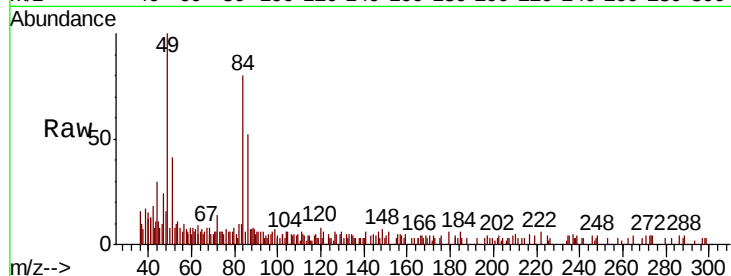




#18
Methvlene Chloride
Concen: 0.598 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX014866.D
Acq: 07 Feb 2020 13:18

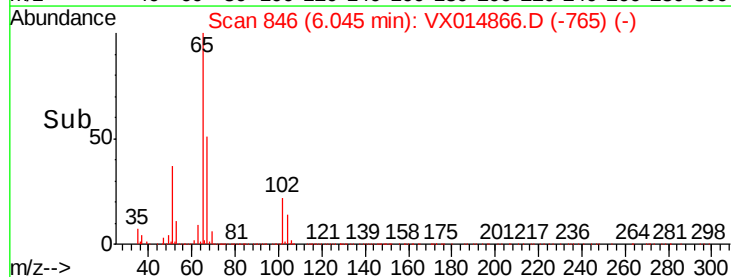
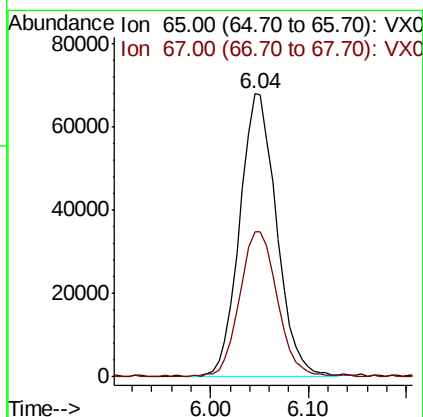
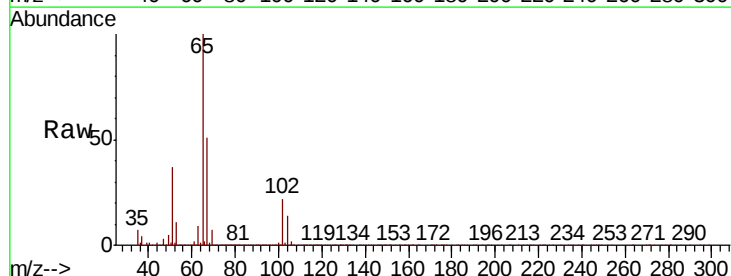
Instrument :
MSVOA_X
ClientSampleId :

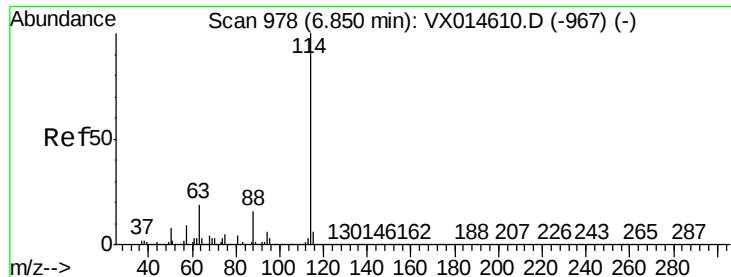
Tot Ion:	84	Resp:	3164
Ion	Ratio	Lower	Upper
84	100		
49	113.9	102.2	153.2
51	44.5	31.4	47.0
86	62.8	50.8	76.2



#27
1,2-Dichloroethane-d4
Concen: 30.935 ug/l
RT: 6.04 min Scan# 846
Delta R.T. -0.01 min
Lab File: VX014866.D
Acq: 07 Feb 2020 13:18

Tgt Ion:	65	Resp:	177612
Ion	Ratio	Lower	Upper
65	100		
67	52.8	43.1	64.7

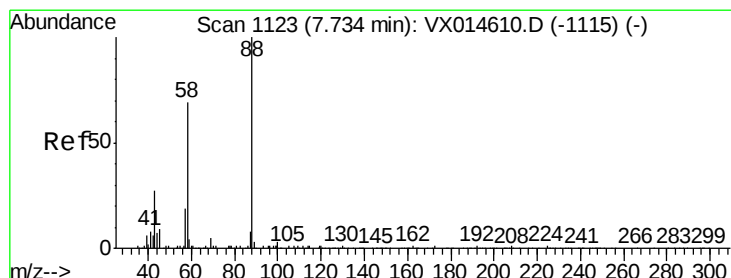
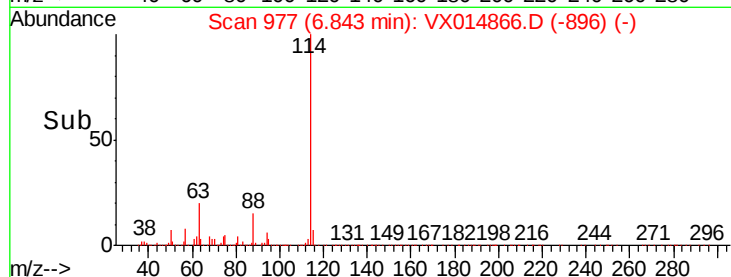
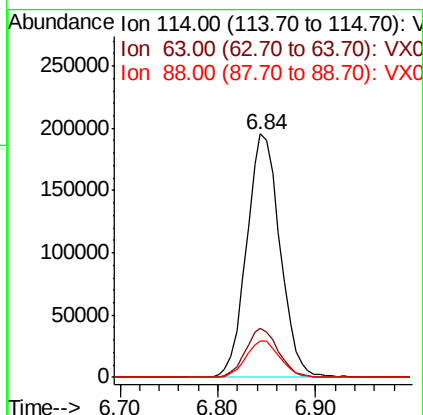
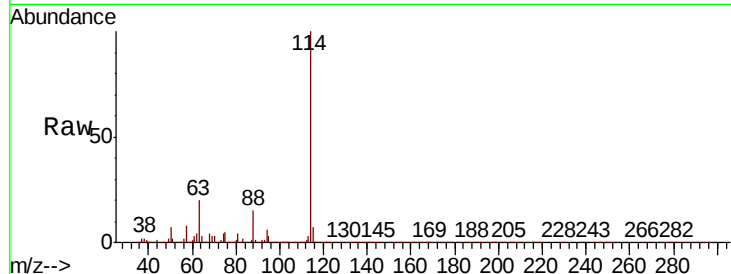




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.84 min Scan# 977
 Delta R.T. -0.01 min
 Lab File: VX014866.D
 Acq: 07 Feb 2020 13:18

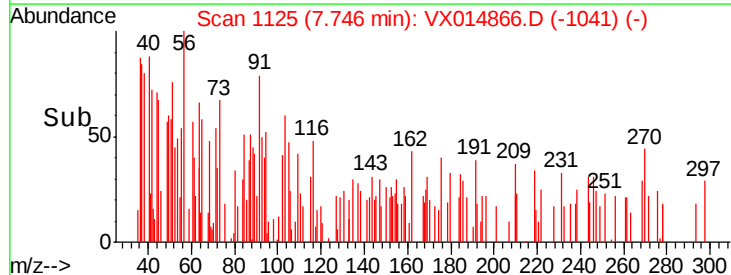
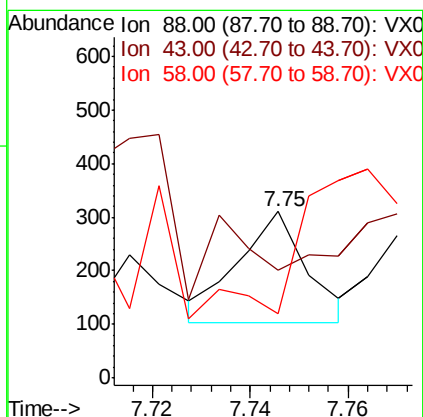
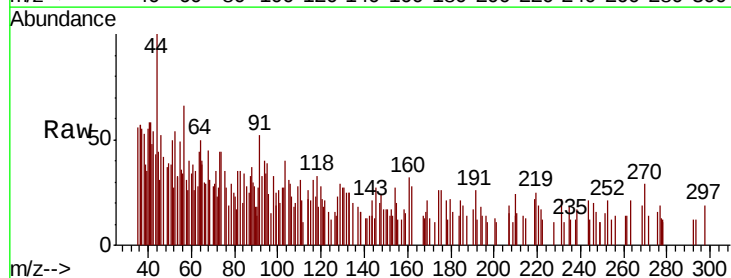
Instrument :
 MSVOA_X
 ClientSampled :

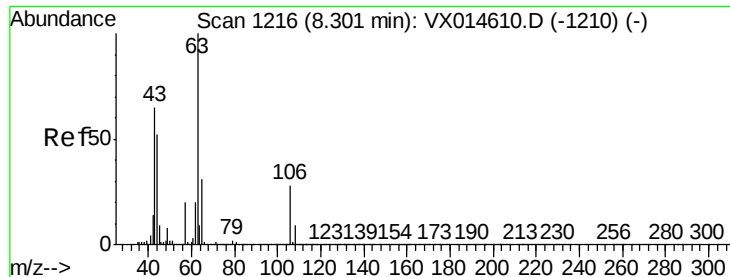
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.5	16.1	24.1
88	15.2	12.5	18.7



#45
 1,4-Dioxane
 Concen: 1.627 ug/l
 RT: 7.75 min Scan# 1125
 Delta R.T. 0.01 min
 Lab File: VX014866.D
 Acq: 07 Feb 2020 13:18

Tgt Ion	Ratio	Lower	Upper
88	100		
43	72.5	25.4	38.2#
58	45.6	56.5	84.7#

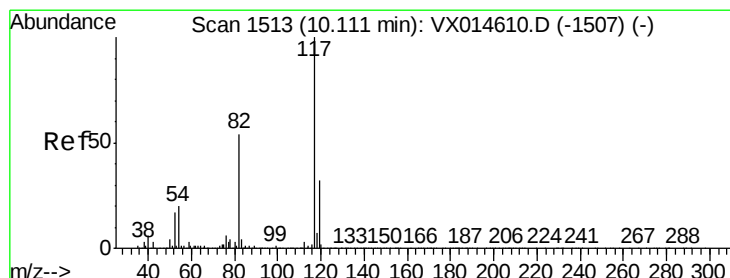
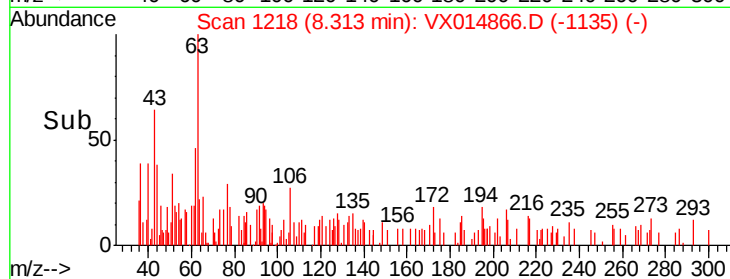
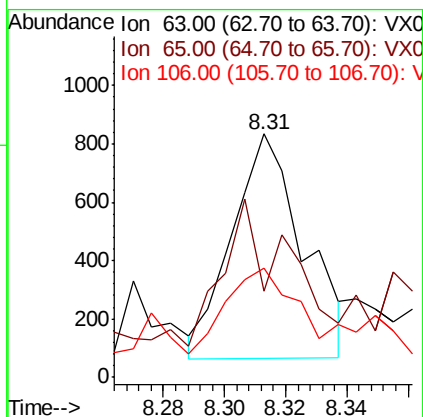
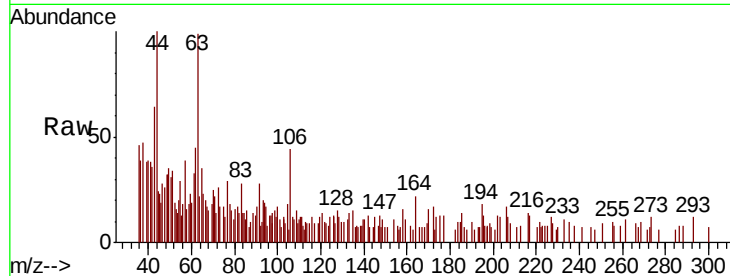




#55
2-Chloroethyl vinyl ether
Concen: 0.325 ug/l
RT: 8.31 min Scan# 1218
Delta R.T. 0.01 min
Lab File: VX014866.D
Acq: 07 Feb 2020 13:18

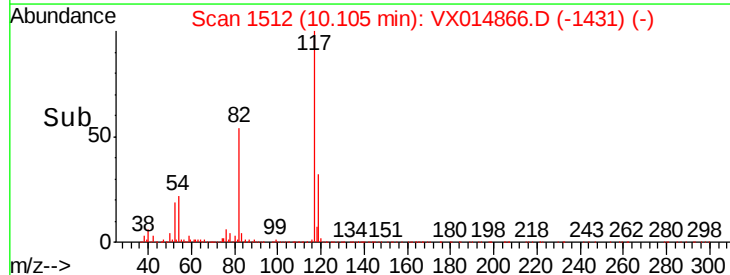
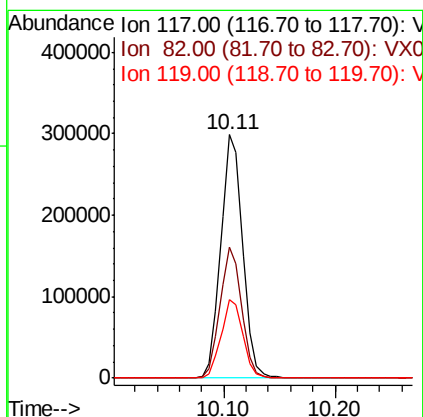
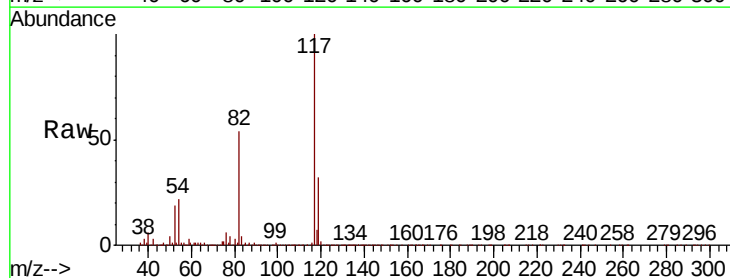
Instrument :
MSVOA_X
ClientSampleId :

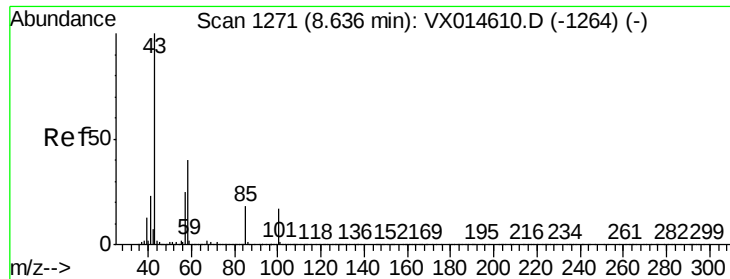
Tot Ion: 63 Resp: 1240
Ion Ratio Lower Upper
63 100
65 16.5 25.8 38.6#
106 36.8 22.9 34.3#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014866.D
Acq: 07 Feb 2020 13:18

Tgt Ion: 117 Resp: 406609
Ion Ratio Lower Upper
117 100
82 52.7 43.8 65.6
119 32.1 25.8 38.6

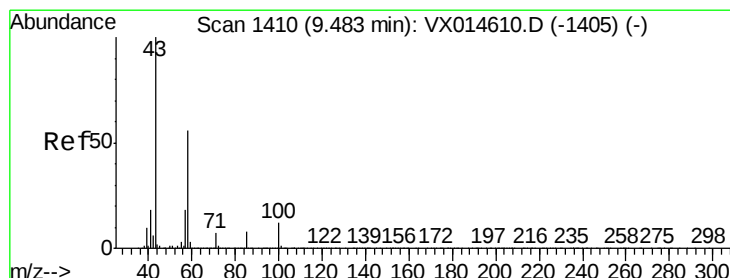
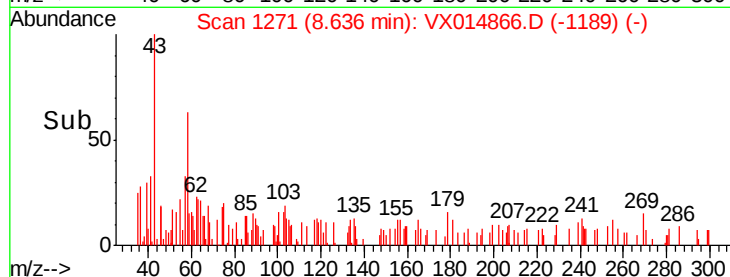
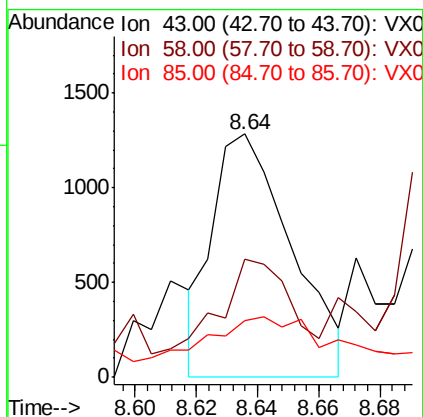
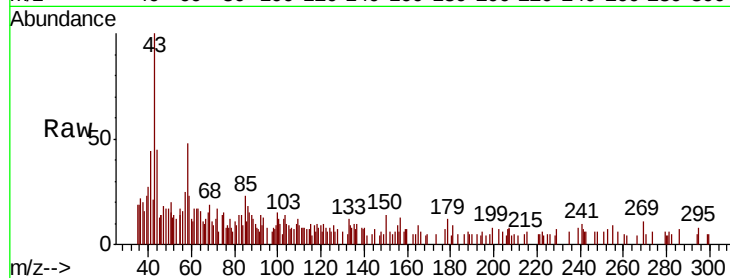




#58
4-Methyl-2-Pentanone
Concen: 0.300 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VX014866.D
Acq: 07 Feb 2020 13:18

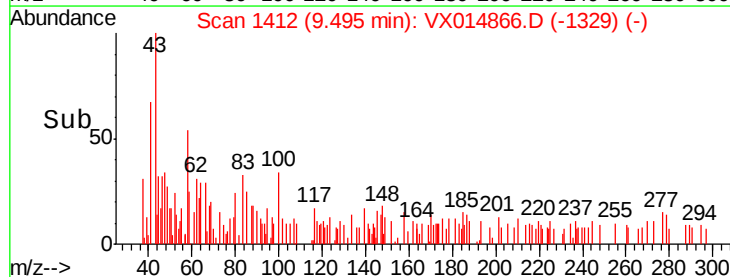
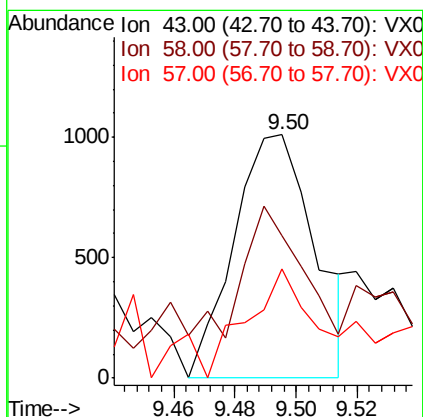
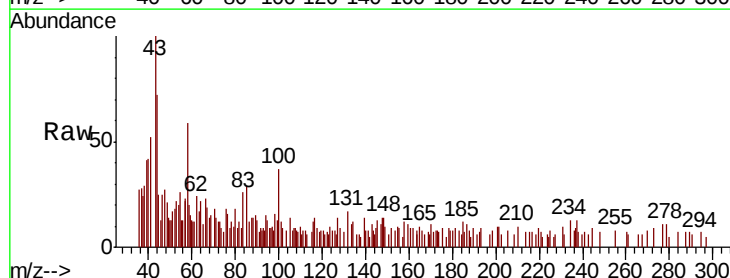
Instrument :
MSVOA_X
ClientSampleId :

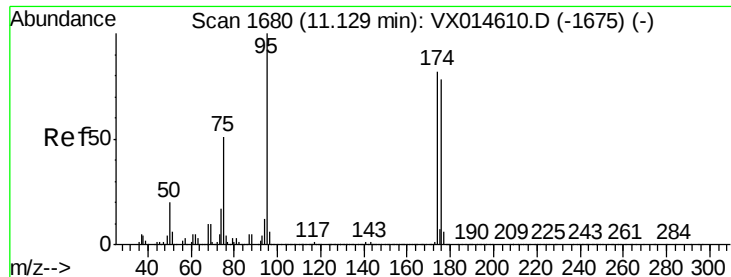
Tot Ion	Ratio	Lower	Upper
43	100		
58	36.6	31.2	46.8
85	23.0	14.2	21.2



#59
2-Hexanone
Concen: 0.313 ug/l
RT: 9.50 min Scan# 1412
Delta R.T. 0.01 min
Lab File: VX014866.D
Acq: 07 Feb 2020 13:18

Tgt Ion	Ratio	Lower	Upper
43	100		
58	54.6	43.8	65.6
57	36.6	15.4	23.0

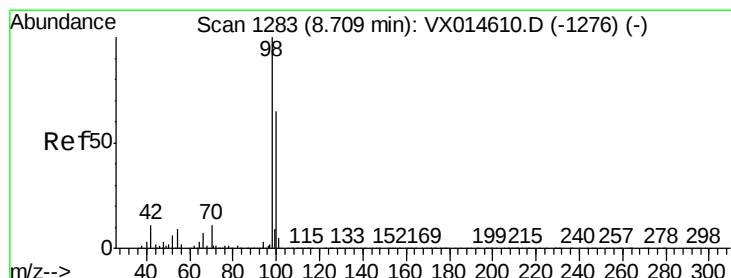
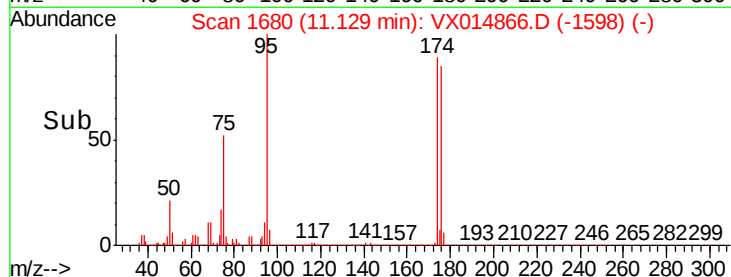
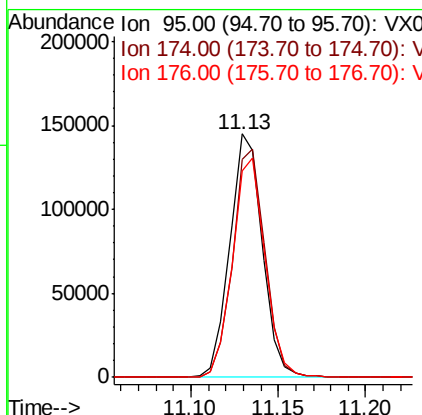
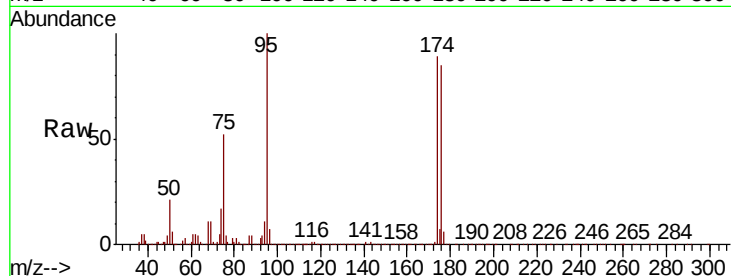




#60
4-Bromofluorobenzene
Concen: 28.835 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014866.D
Acq: 07 Feb 2020 13:18

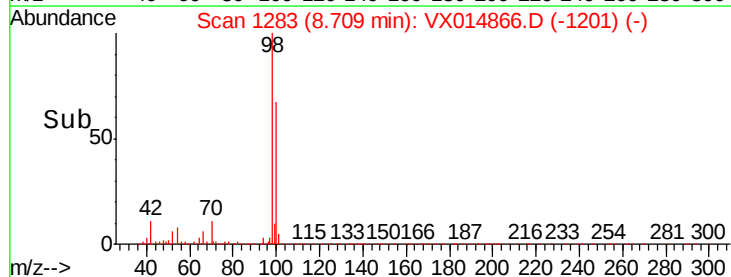
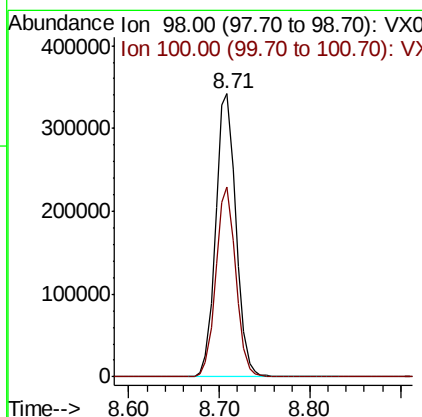
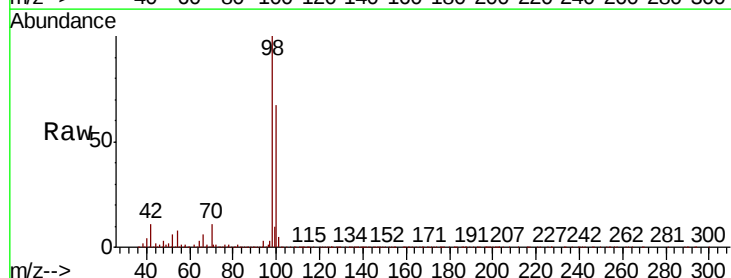
Instrument :
MSVOA_X
ClientSampleId :

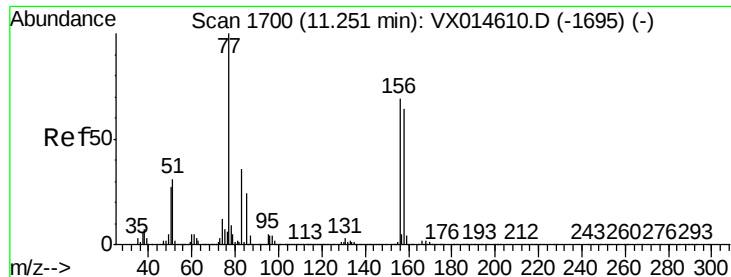
Tot Ion	Ratio	Lower	Upper
95	100		
174	93.3	70.2	105.2
176	90.4	68.3	102.5



#63
Toluene-d8
Concen: 29.126 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014866.D
Acq: 07 Feb 2020 13:18

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.2	78.2





#73

Bromobenzene

Concen: 0.319 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VX014866.D

Acq: 07 Feb 2020 13:18

Instrument :

MSVOA_X

ClientSampleId :

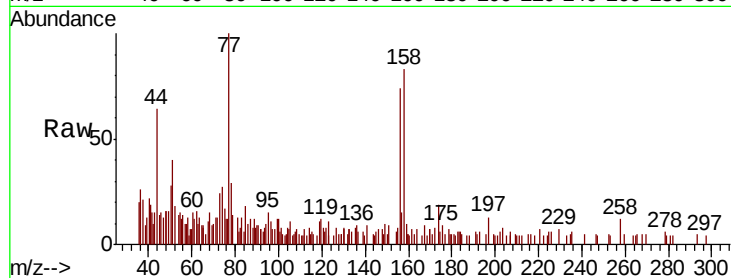
Tot Ion:156 Resp: 1939

Ion Ratio Lower Upper

156 100

77 148.0 0.0 304.6

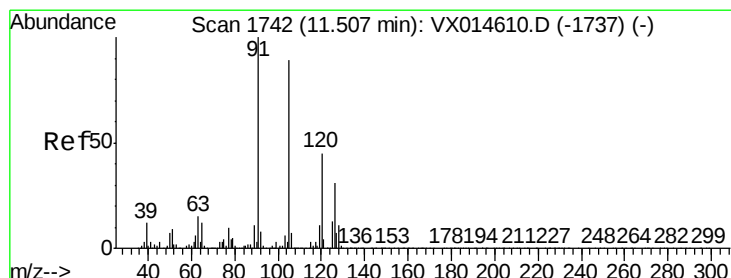
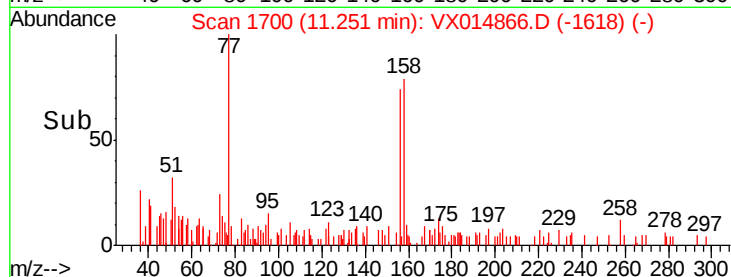
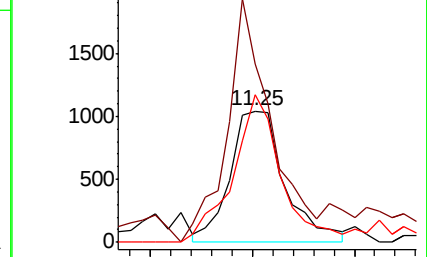
158 98.6 0.0 195.2



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 158.00 (157.70 to 158.70): V



#78

4-Chlorotoluene

Concen: 0.238 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VX014866.D

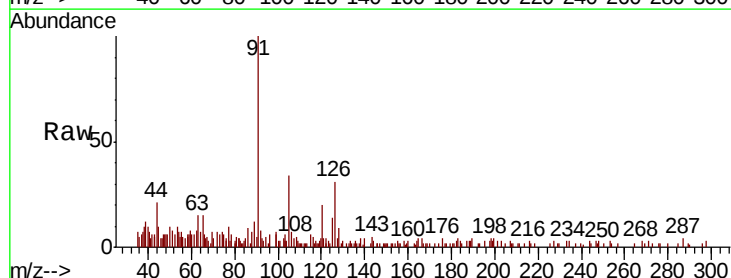
Acq: 07 Feb 2020 13:18

Tgt Ion: 91 Resp: 4252

Ion Ratio Lower Upper

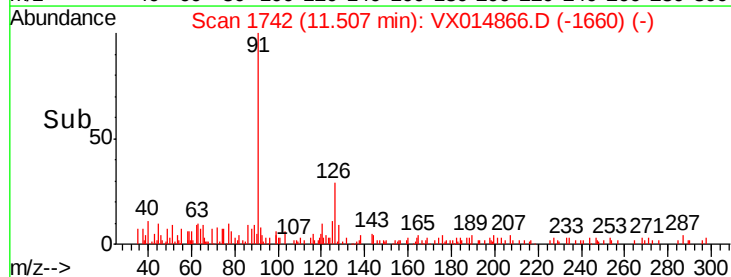
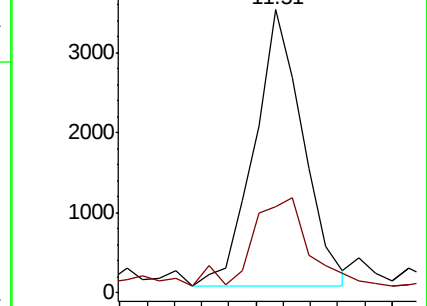
91 100

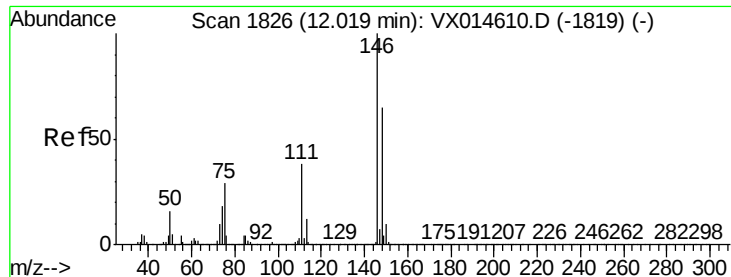
126 36.1 0.0 59.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 126.00 (125.70 to 126.70): V

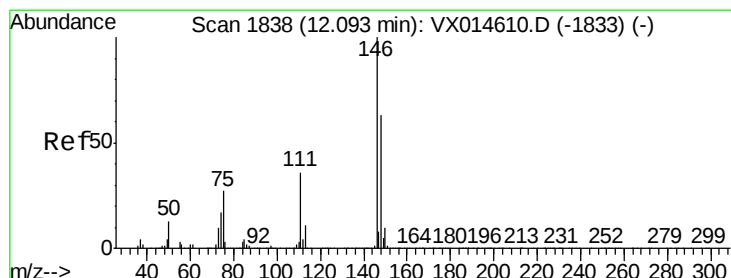
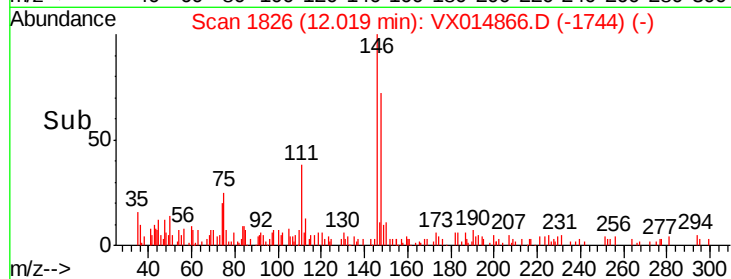
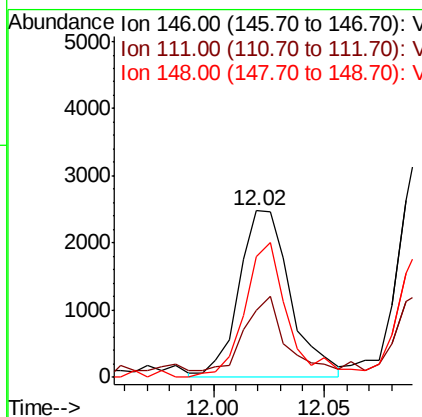
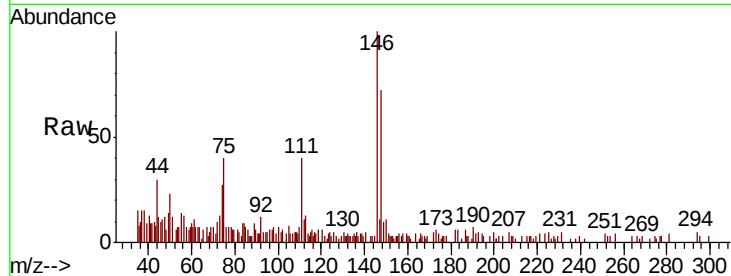




#83
 1,3-Dichlorobenzene
 Concen: 0.378 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. 0.00 min
 Lab File: VX014866.D
 Acq: 07 Feb 2020 13:18

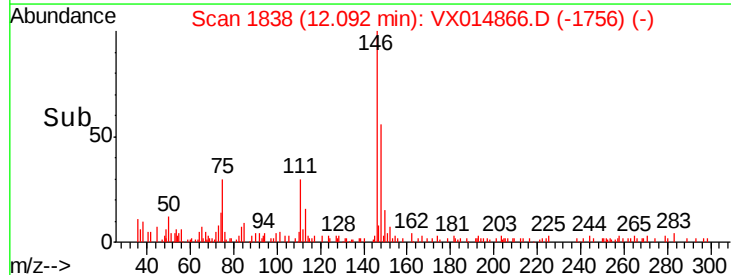
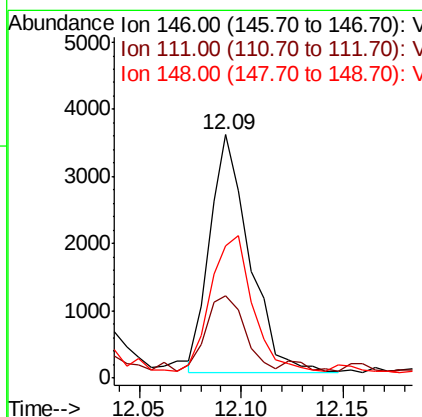
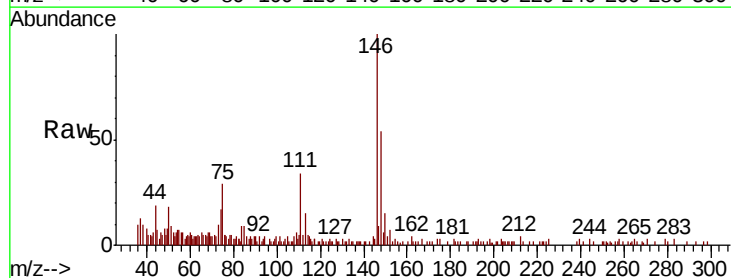
Instrument :
 MSVOA_X
 ClientSampled :

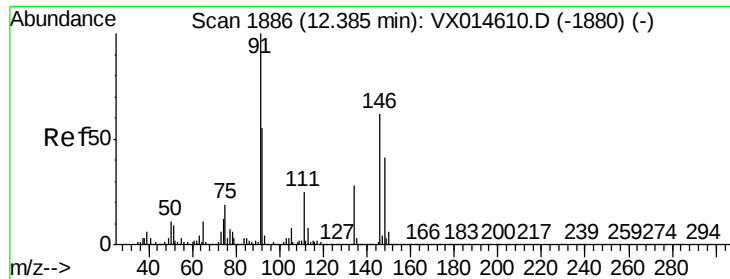
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.3	57.9
148	68.8	32.2	96.6



#84
 1,4-Dichlorobenzene
 Concen: 0.457 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. 0.00 min
 Lab File: VX014866.D
 Acq: 07 Feb 2020 13:18

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.8	18.4	55.4
148	68.7	32.0	96.0





#85

n-Butylbenzene

Concen: 0.297 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX014866.D

Acq: 07 Feb 2020 13:18

Instrument :

MSVOA_X

ClientSampleId :

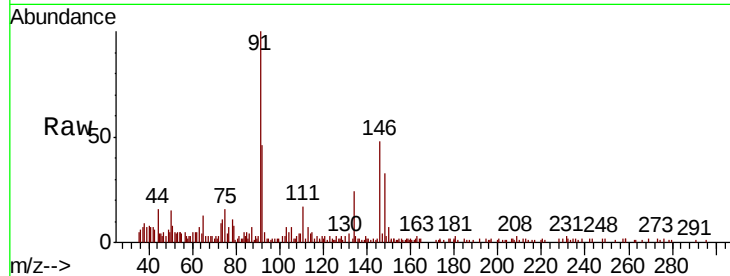
Tot Ion: 91 Resp: 5261

Ion Ratio Lower Upper

91 100

92 51.8 0.0 109.0

134 25.4 0.0 54.0

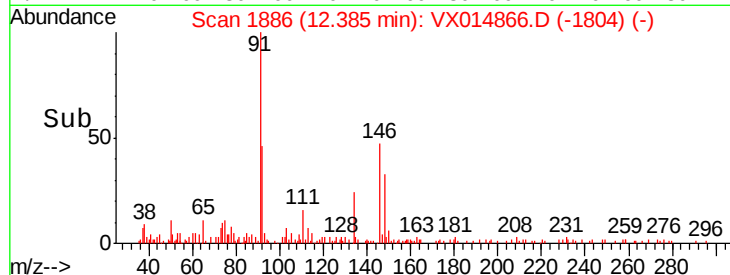


Abundance Ion 91.00 (90.70 to 91.70): VX014610.D (-1880) (-)

Ion 92.00 (91.70 to 92.70): VX014610.D (-1880) (-)

Ion 134.00 (133.70 to 134.70): VX014610.D (-1880) (-)

Time-->

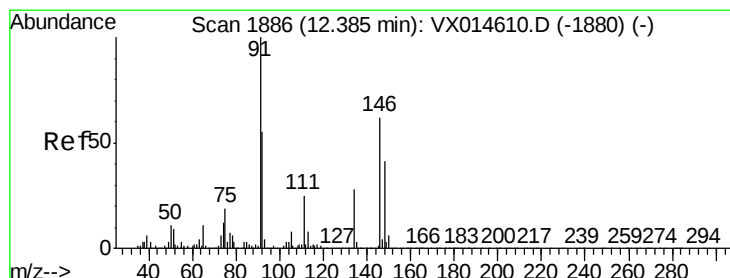


Abundance Ion 91.00 (90.70 to 91.70): VX014866.D (-1804) (-)

Ion 92.00 (91.70 to 92.70): VX014866.D (-1804) (-)

Ion 134.00 (133.70 to 134.70): VX014866.D (-1804) (-)

Time-->



#87

1,2-Dichlorobenzene

Concen: 0.309 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX014866.D

Acq: 07 Feb 2020 13:18

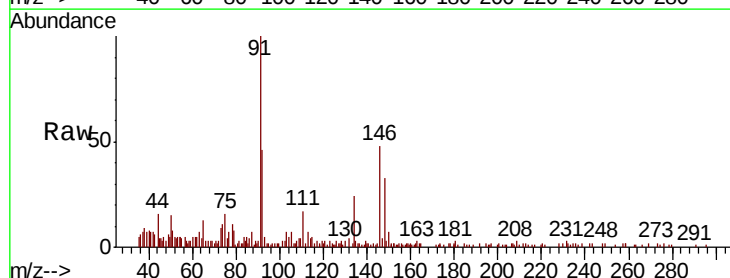
Tgt Ion: 146 Resp: 3313

Ion Ratio Lower Upper

146 100

111 43.1 20.1 60.2

148 78.7 32.0 96.2

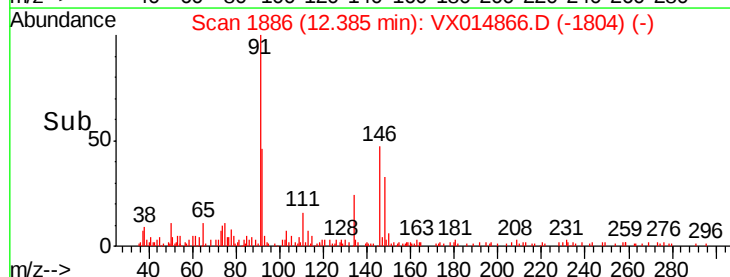


Abundance Ion 146.00 (145.70 to 146.70): VX014610.D (-1880) (-)

Ion 111.00 (110.70 to 111.70): VX014610.D (-1880) (-)

Ion 148.00 (147.70 to 148.70): VX014610.D (-1880) (-)

Time-->

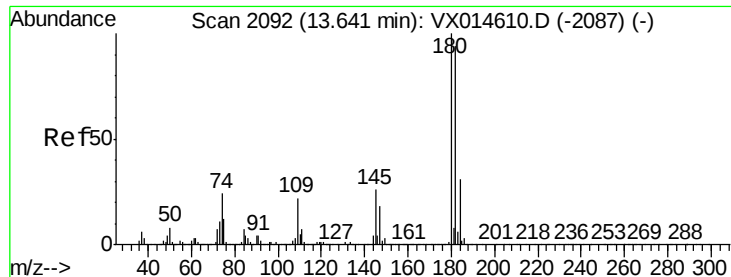


Abundance Ion 146.00 (145.70 to 146.70): VX014866.D (-1804) (-)

Ion 111.00 (110.70 to 111.70): VX014866.D (-1804) (-)

Ion 148.00 (147.70 to 148.70): VX014866.D (-1804) (-)

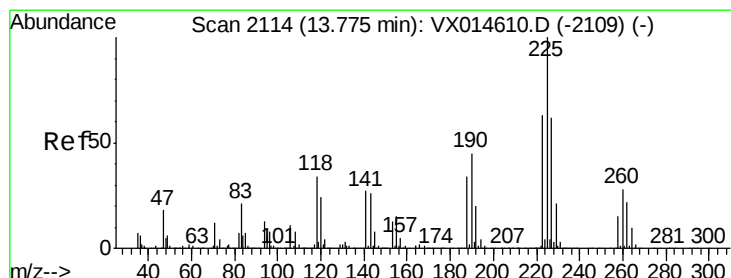
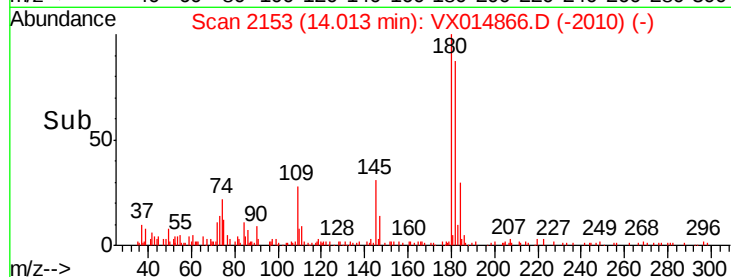
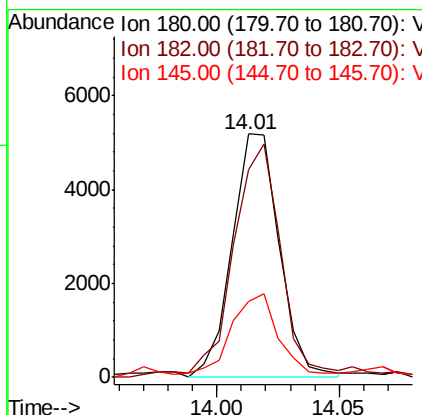
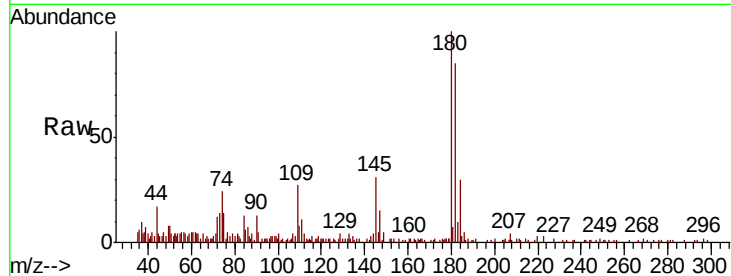
Time-->



#89
 1,2,4-Trichlorobenzene
 Concen: 0.984 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.37 min
 Lab File: VX014866.D
 Acq: 07 Feb 2020 13:18

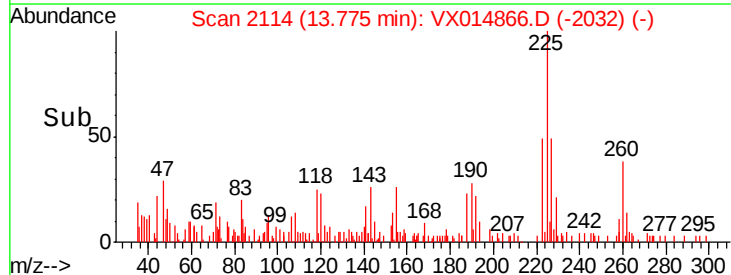
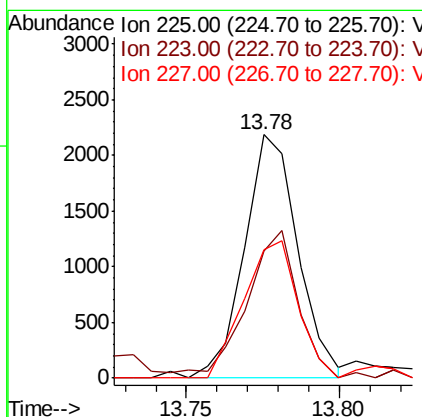
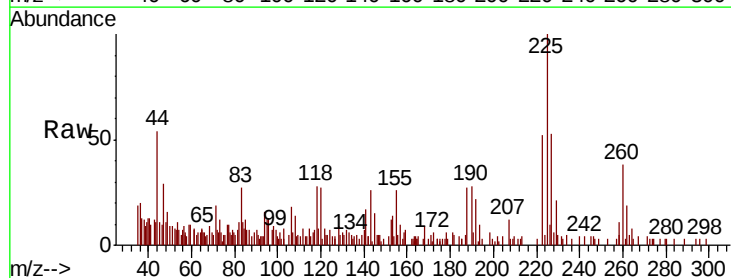
Instrument :
 MSVOA_X
 ClientSampleId :

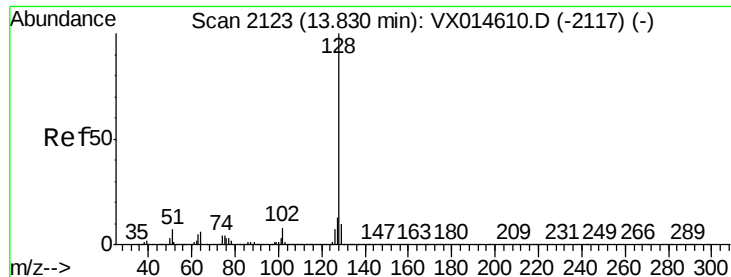
Tot Ion	Ratio	Lower	Upper
180	100		
182	92.2	76.4	114.6
145	32.3	21.9	32.9



#90
 Hexachlorobutadiene
 Concen: 0.750 ug/l
 RT: 13.78 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VX014866.D
 Acq: 07 Feb 2020 13:18

Tgt Ion	Ratio	Lower	Upper
225	100		
223	56.3	0.0	127.4
227	57.5	0.0	122.8

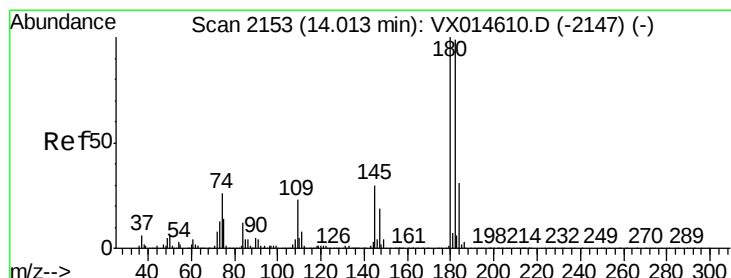
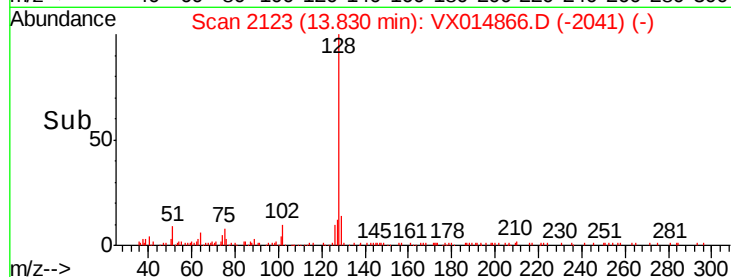
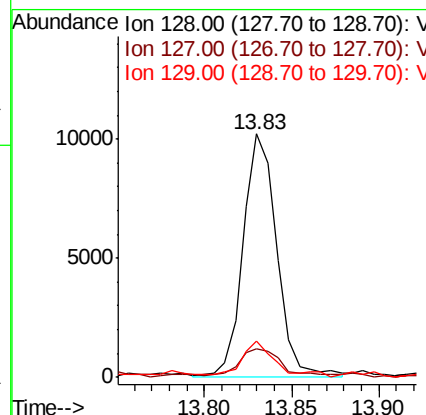
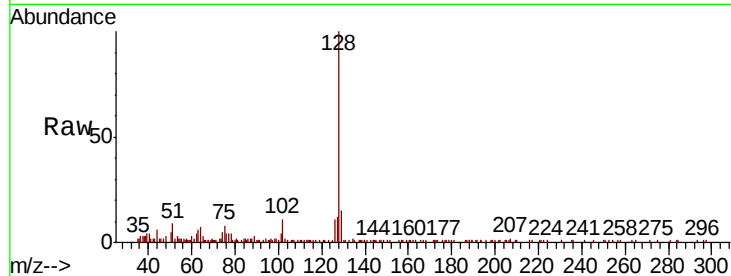




#91
Naphthalene
Concen: 0.646 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014866.D
Acq: 07 Feb 2020 13:18

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	12.7	8.9	13.3



#92
1,2,3-Trichlorobenzene
Concen: 0.967 ug/l
RT: 14.01 min Scan# 2153
Delta R.T. 0.00 min
Lab File: VX014866.D
Acq: 07 Feb 2020 13:18

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.4	0.0	192.8
145	34.1	0.0	60.0

