

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121919\
 Data File : VX014118.D
 Acq On : 19 Dec 2019 14:05
 Operator : JC/SP
 Sample : K6373-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 20 00:54:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	86192	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	464496	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	405008	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	182572	29.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.60%
60) 4-Bromofluorobenzene	11.13	95	176981	27.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.20%
63) Toluene-d8	8.71	98	552487	30.52	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.73%

Target Compounds

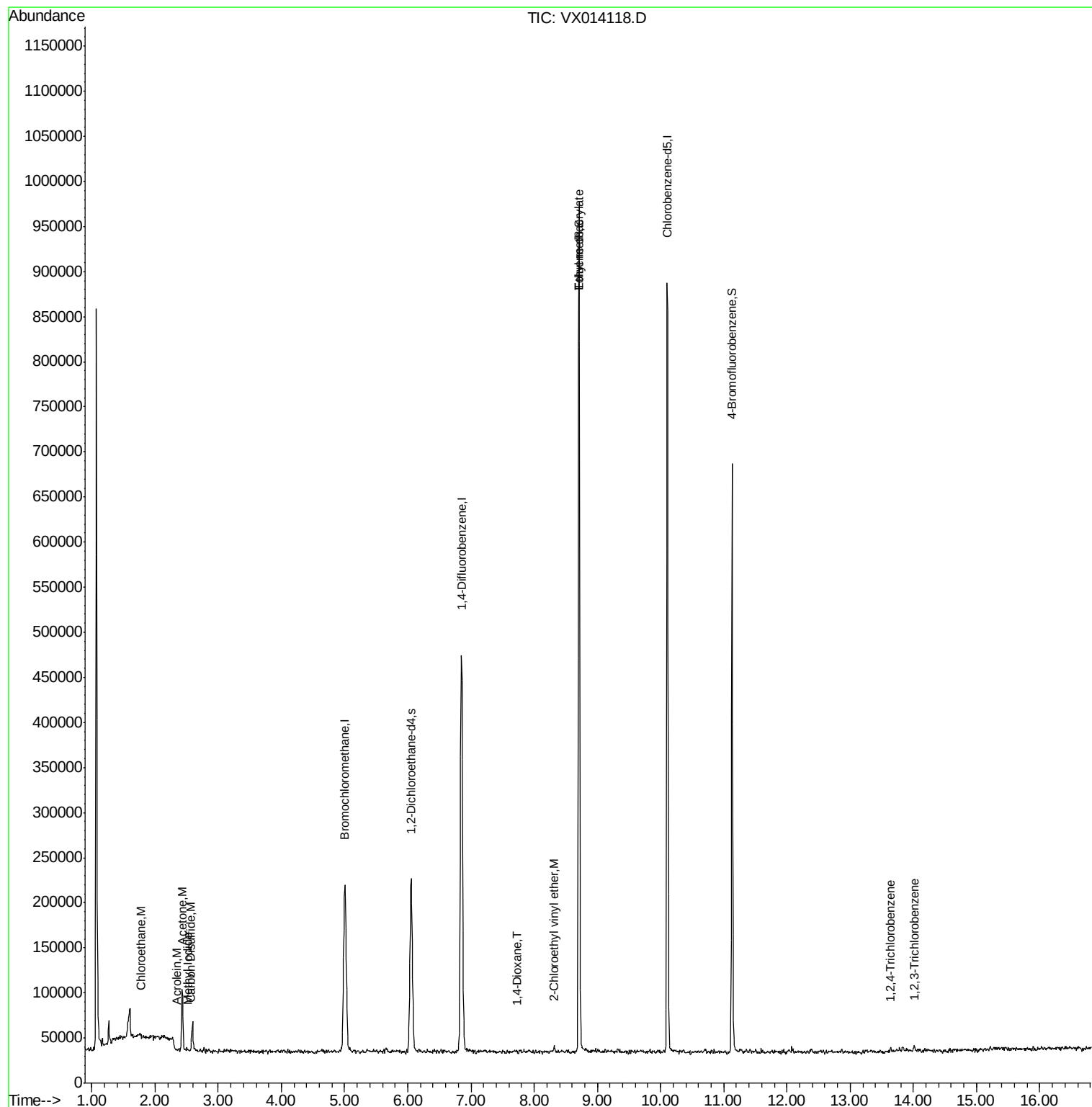
					Ovalue
6) Chloroethane	1.78	64	1019	0.262 ug/l	90
11) Methyl Iodide	2.52	142	2920	0.470 ug/l	73
13) Acrolein	2.34	56	275	0.303 ug/l	97
15) Acetone	2.43	58	22990	26.792 ug/l	86
16) Carbon Disulfide	2.56	76	4180	0.320 ug/l	96
45) 1,4-Dioxane	7.73	88	84	0.706 ug/l #	85
51) Ethyl methacrylate	8.71	69	1707	0.200 ug/l	84
55) 2-Chloroethyl vinyl ether	8.31	63	2807	0.747 ug/l #	93
89) 1,2,4-Trichlorobenzene	13.64	180	1394	0.200 ug/l #	88
92) 1,2,3-Trichlorobenzene	14.01	180	1540	0.218 ug/l	86

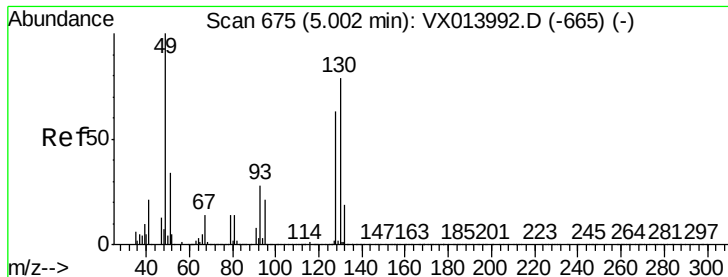
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
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Quant Time: Dec 20 00:54:01 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 13 01:35:34 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014118.D

Acq: 19 Dec 2019 14:05

Instrument :
MSVOA_X
ClientSampleId :

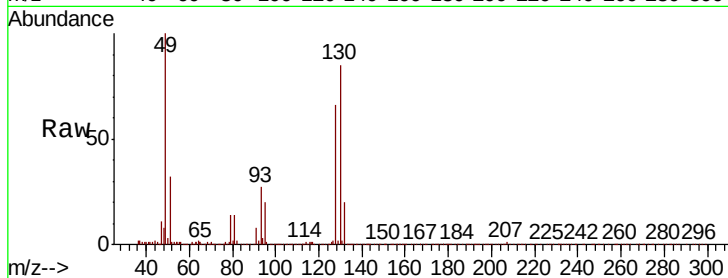
Tot Ion:128 Resp: 86192

Ion Ratio Lower Upper

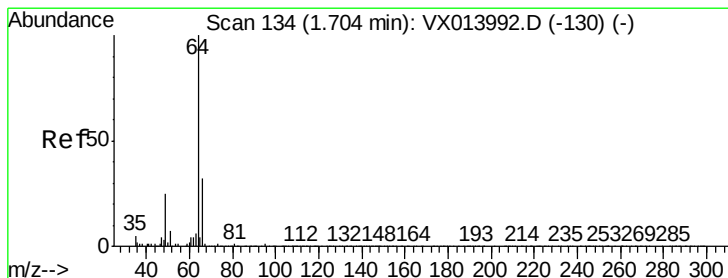
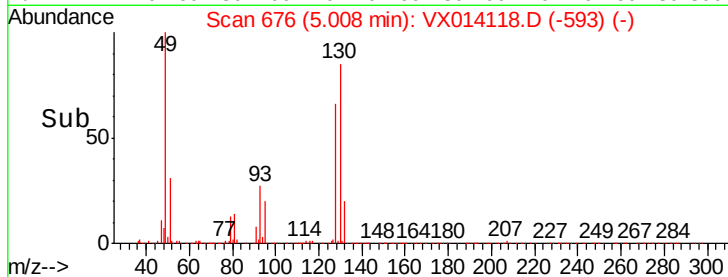
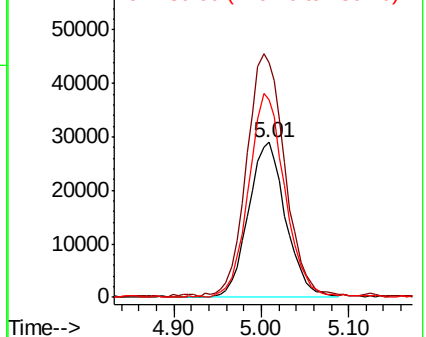
128 100

49 159.3 0.0 405.0

130 127.2 0.0 321.5



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VX0
Ion 130.00 (129.70 to 130.70): V



#6

Chloroethane

Concen: 0.262 ug/l

RT: 1.78 min Scan# 147

Delta R.T. 0.08 min

Lab File: VX014118.D

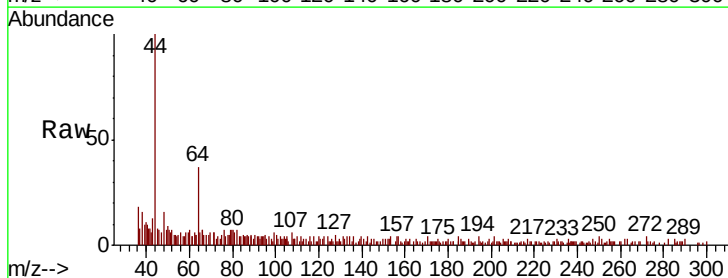
Acq: 19 Dec 2019 14:05

Tgt Ion: 64 Resp: 1019

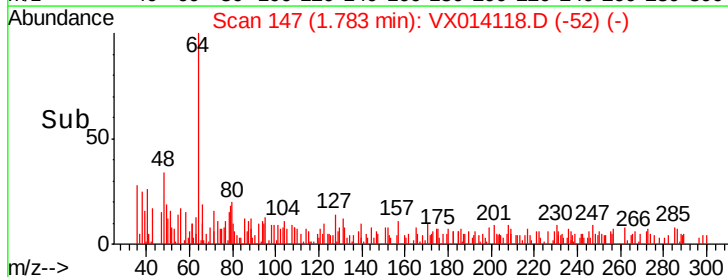
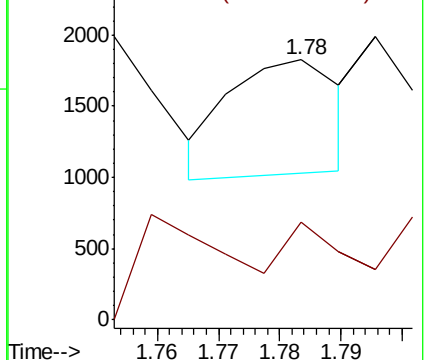
Ion Ratio Lower Upper

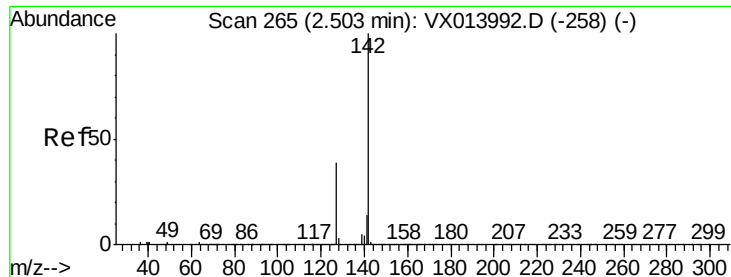
64 100

66 37.1 25.2 37.8



Abundance Ion 64.00 (63.70 to 64.70): VX0
Ion 66.00 (65.70 to 66.70): VX0

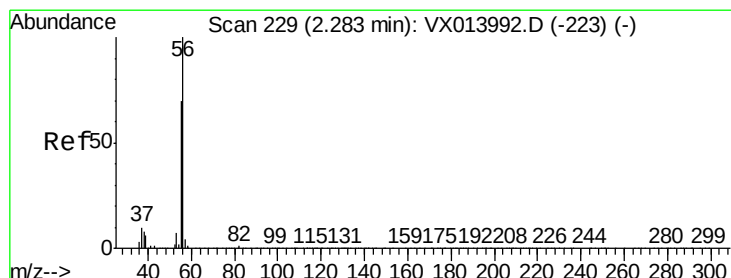
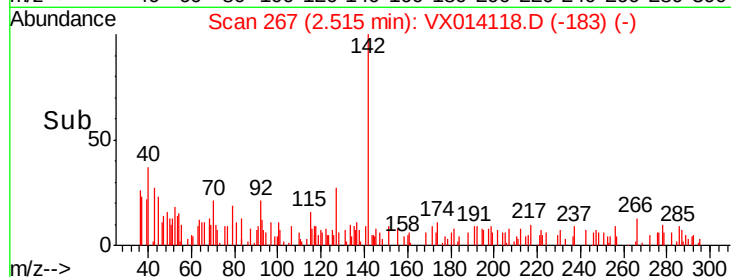
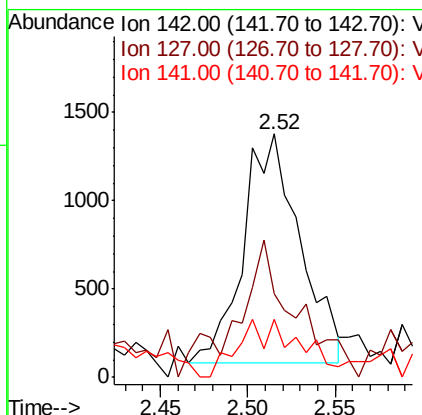
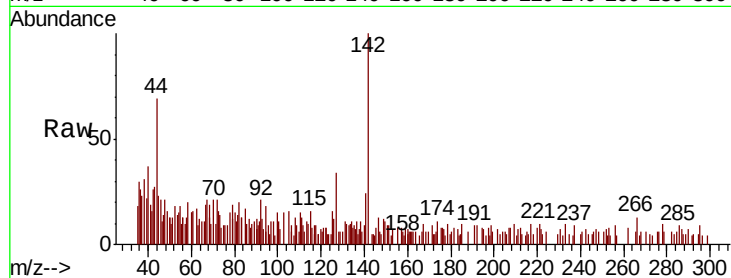




#11
Methvl Iodide
Concen: 0.470 ug/l
RT: 2.52 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX014118.D
Acq: 19 Dec 2019 14:05

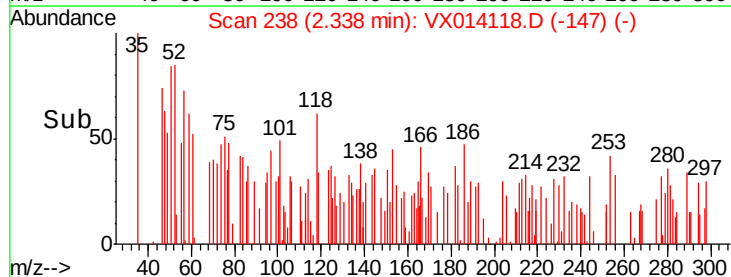
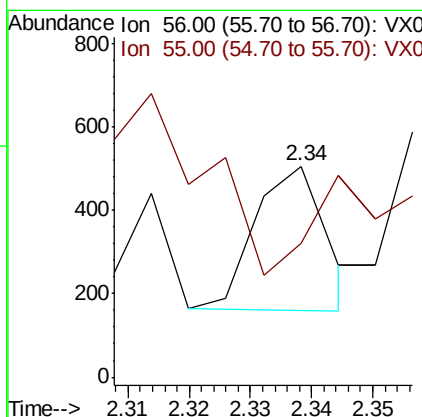
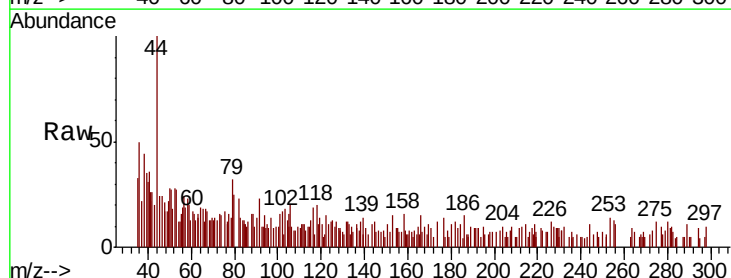
Instrument :
MSVOA_X
ClientSampleId :

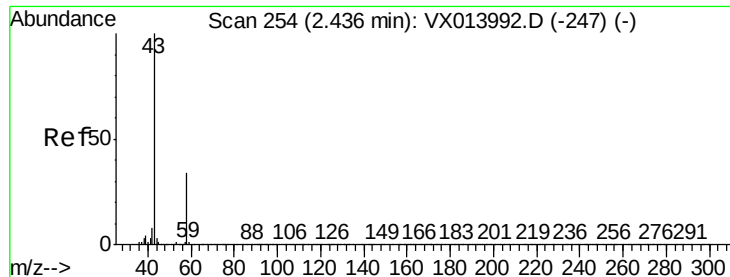
Tot Ion:142 Resp: 2920
Ion Ratio Lower Upper
142 100
127 20.3 19.5 58.5
141 20.6 7.0 20.9



#13
Acrolein
Concen: 0.303 ug/l
RT: 2.34 min Scan# 238
Delta R.T. 0.06 min
Lab File: VX014118.D
Acq: 19 Dec 2019 14:05

Tgt Ion: 56 Resp: 275
Ion Ratio Lower Upper
56 100
55 66.5 54.9 82.3

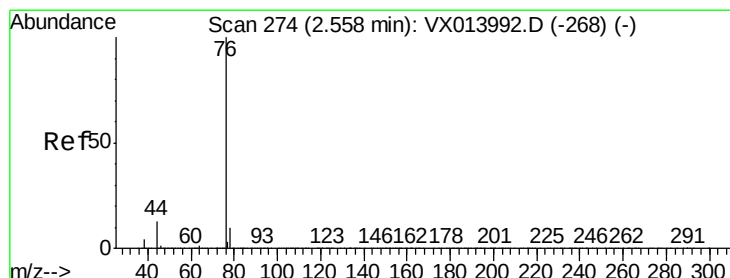
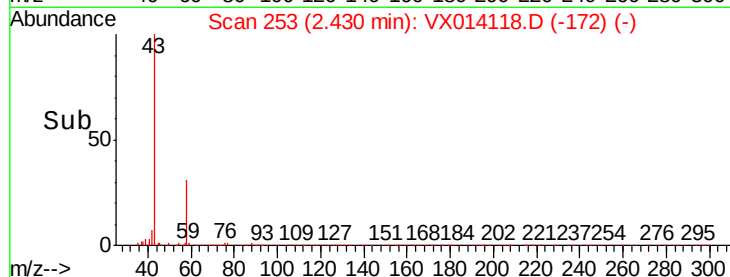
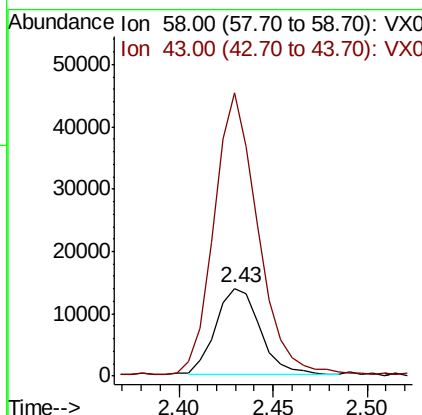
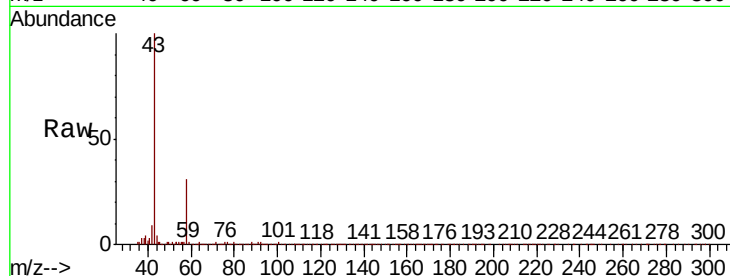




#15
Acetone
Concen: 26.792 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014118.D
Acq: 19 Dec 2019 14:05

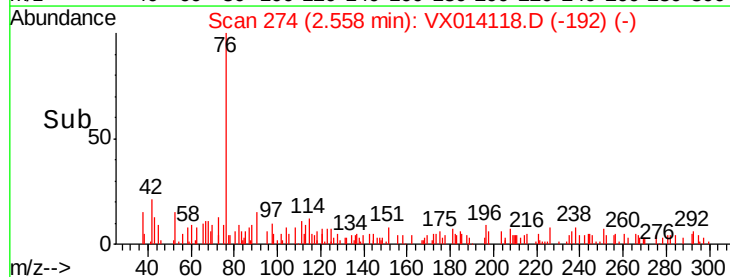
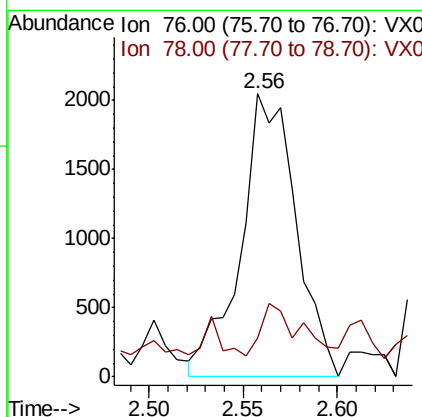
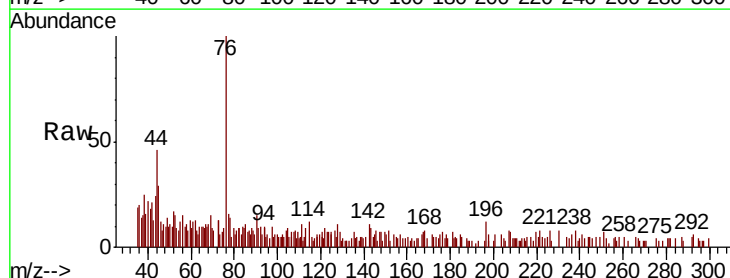
Instrument :
MSVOA_X
ClientSampled :

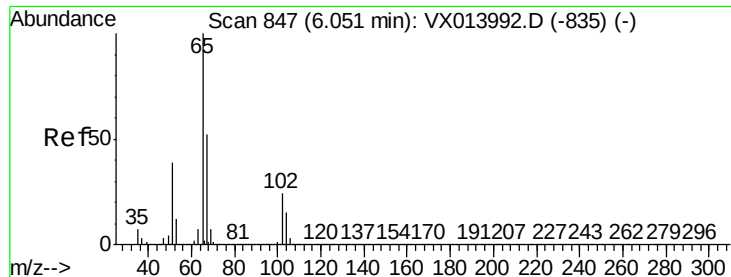
Tot Ion: 58 Resp: 22990
Ion Ratio Lower Upper
58 100
43 322.7 236.3 354.5



#16
Carbon Disulfide
Concen: 0.320 ug/l
RT: 2.56 min Scan# 274
Delta R.T. 0.00 min
Lab File: VX014118.D
Acq: 19 Dec 2019 14:05

Tgt Ion: 76 Resp: 4180
Ion Ratio Lower Upper
76 100
78 11.4 7.8 11.8





#27

1,2-Dichloroethane-d4

Concen: 29.577 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014118.D

Acq: 19 Dec 2019 14:05

Instrument :

MSVOA_X

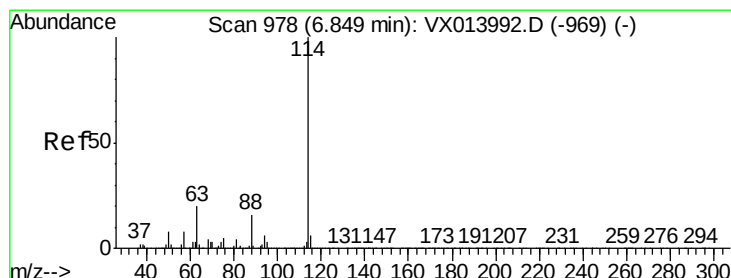
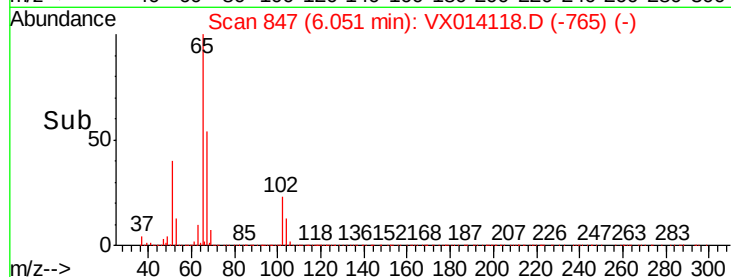
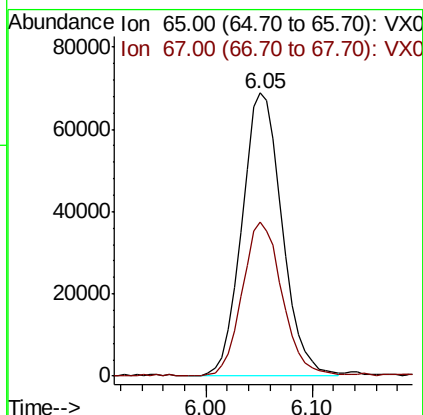
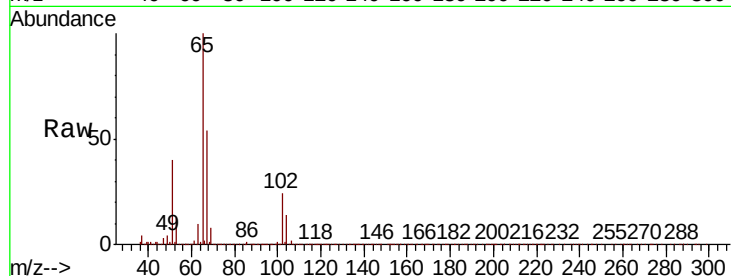
ClientSampleId :

Tot Ion: 65 Resp: 182572

Ion Ratio Lower Upper

65 100

67 53.7 43.1 64.7



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014118.D

Acq: 19 Dec 2019 14:05

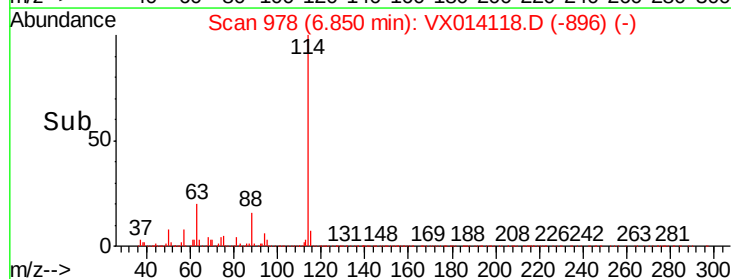
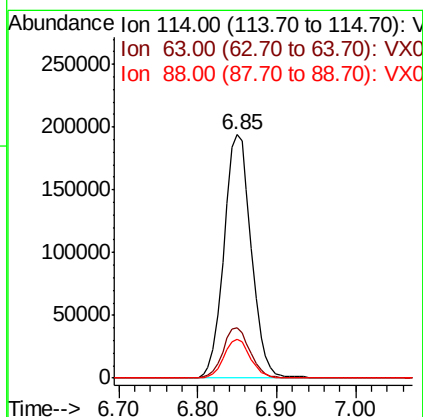
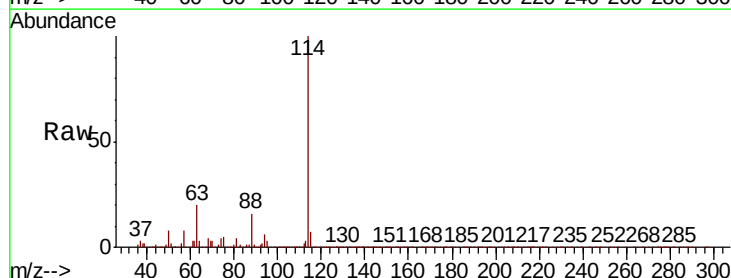
Tgt Ion: 114 Resp: 464496

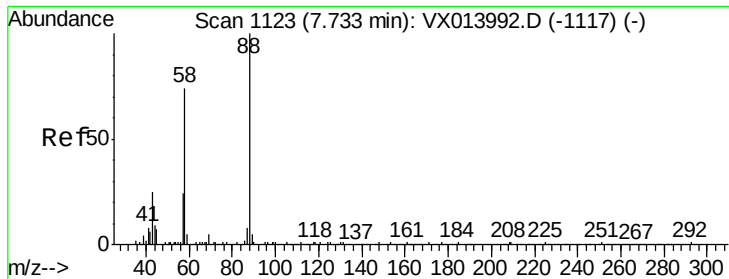
Ion Ratio Lower Upper

114 100

63 20.4 16.1 24.1

88 15.7 12.5 18.7





#45

1,4-Dioxane

Concen: 0.706 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014118.D

Acq: 19 Dec 2019 14:05

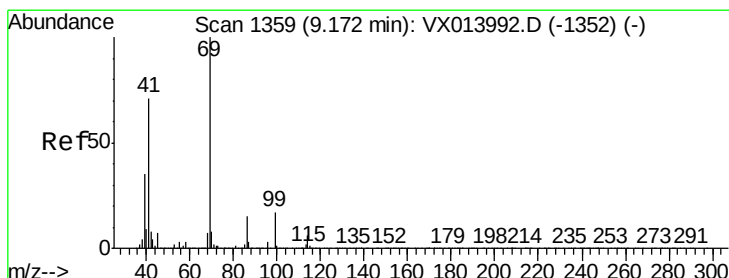
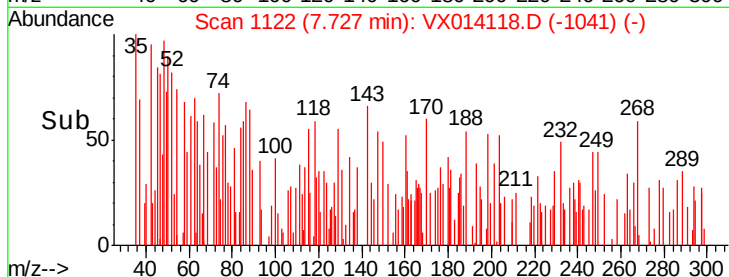
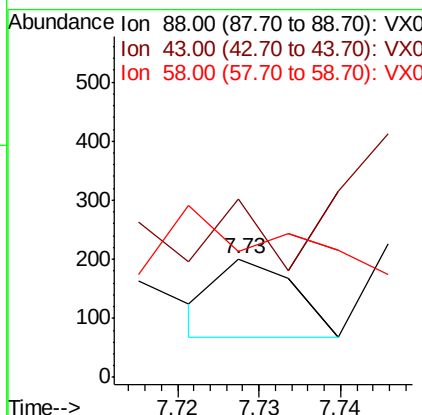
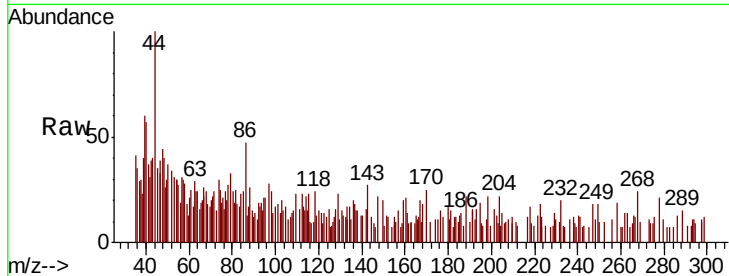
Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 88 Resp: 84

Ion	Ratio	Lower	Upper
88	100		
43	53.6	25.4	38.2#
58	73.8	56.5	84.7



#51

Ethyl methacrylate

Concen: 0.200 ug/l

RT: 8.71 min Scan# 1283

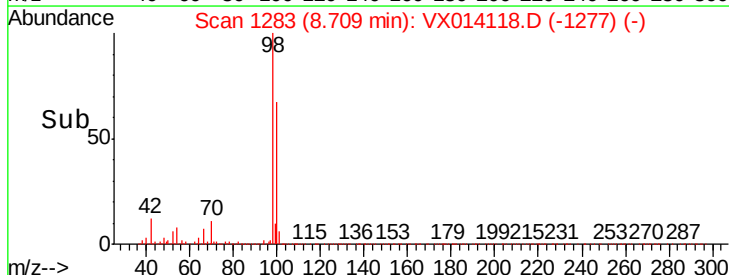
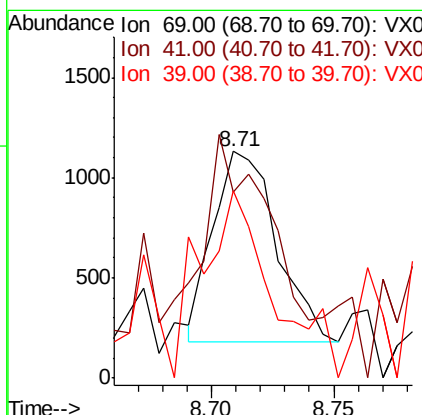
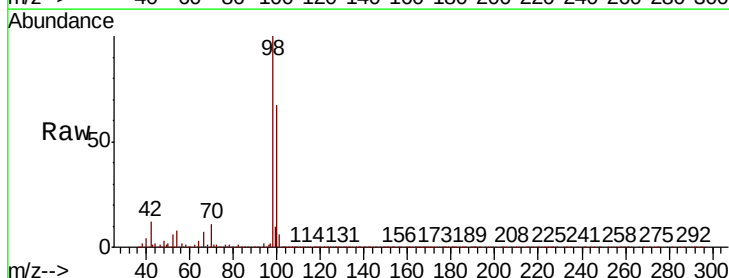
Delta R.T. -0.46 min

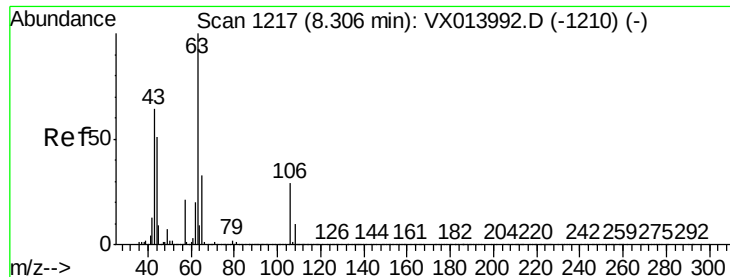
Lab File: VX014118.D

Acq: 19 Dec 2019 14:05

Tgt Ion: 69 Resp: 1707

Ion	Ratio	Lower	Upper
69	100		
41	59.9	35.4	106.1
39	49.0	17.8	53.3

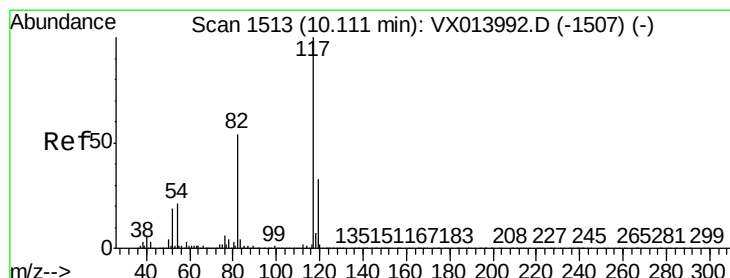
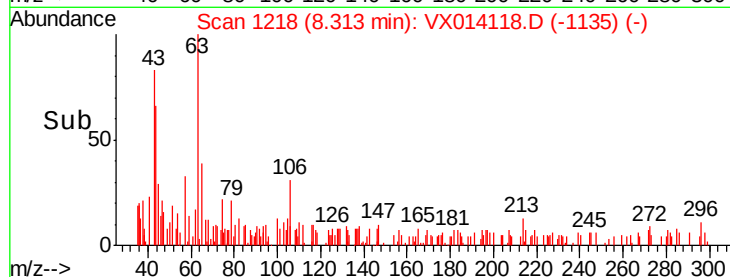
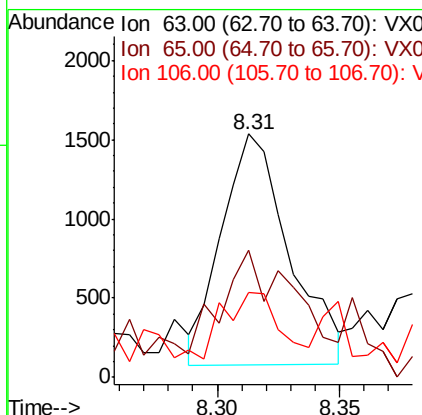
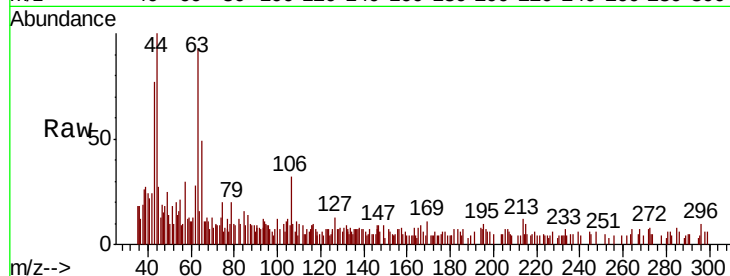




#55
2-Chloroethyl vinyl ether
Concen: 0.747 ug/l
RT: 8.31 min Scan# 1218
Delta R.T. 0.01 min
Lab File: VX014118.D
Acq: 19 Dec 2019 14:05

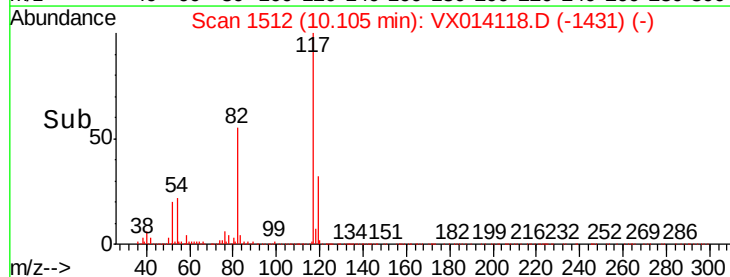
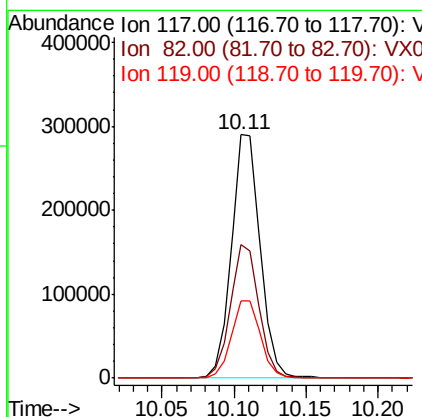
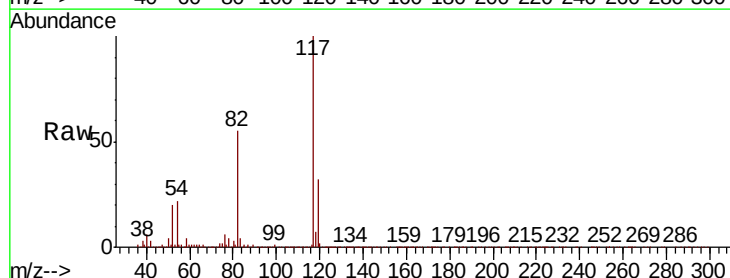
Instrument :
MSVOA_X
ClientSampleId :

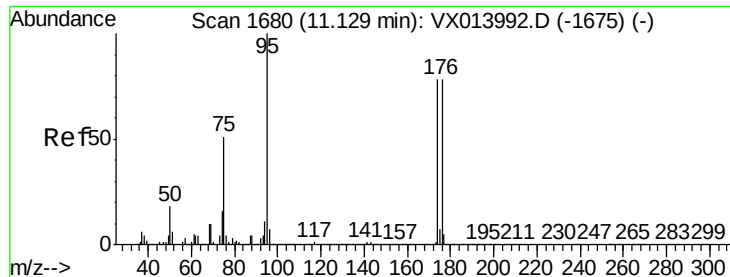
Tot Ion	Ratio	Lower	Upper
63	100		
65	25.7	25.8	38.6#
106	27.4	22.9	34.3



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014118.D
Acq: 19 Dec 2019 14:05

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.3	43.8	65.6
119	32.3	25.8	38.6

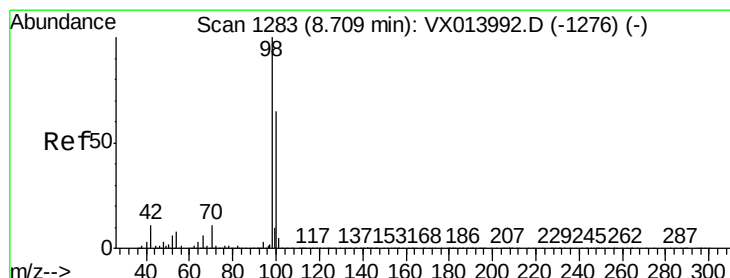
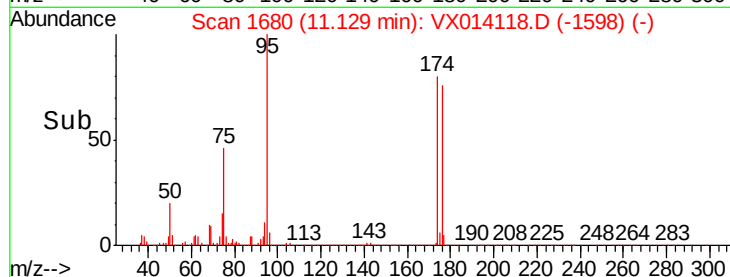
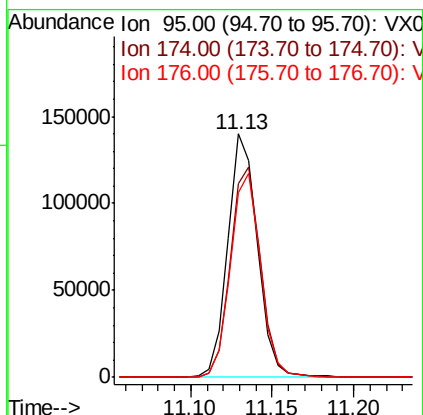
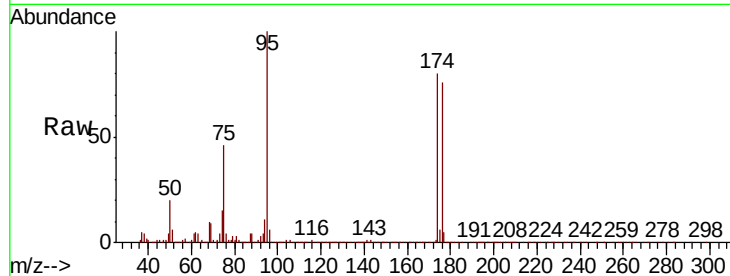




#60
4-Bromofluorobenzene
Concen: 27.061 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014118.D
Acq: 19 Dec 2019 14:05

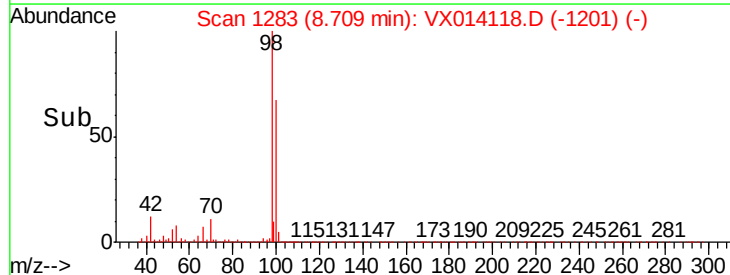
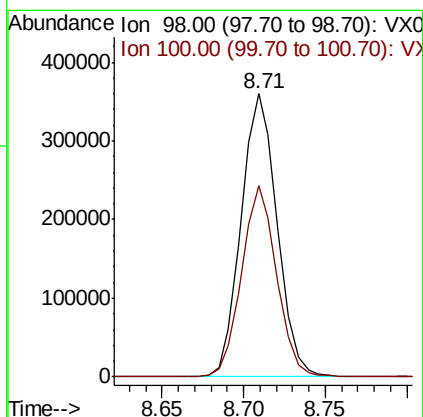
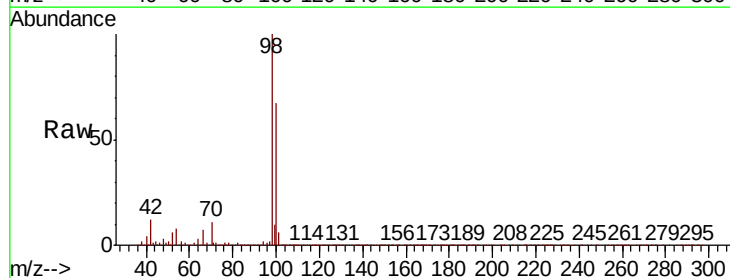
Instrument :
MSVOA_X
ClientSampleId :

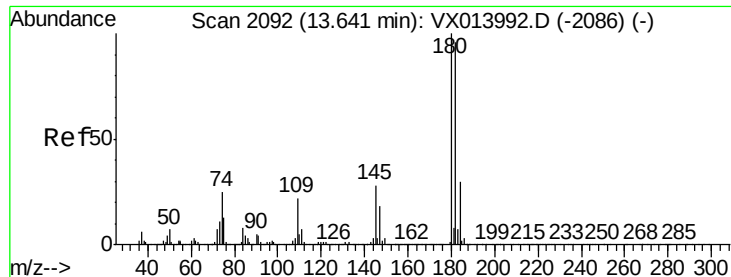
Tot Ion: 95 Resp: 176981
Ion Ratio Lower Upper
95 100
174 88.5 70.2 105.2
176 85.3 68.3 102.5



#63
Toluene-d8
Concen: 30.519 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014118.D
Acq: 19 Dec 2019 14:05

Tgt Ion: 98 Resp: 552487
Ion Ratio Lower Upper
98 100
100 65.8 52.2 78.2

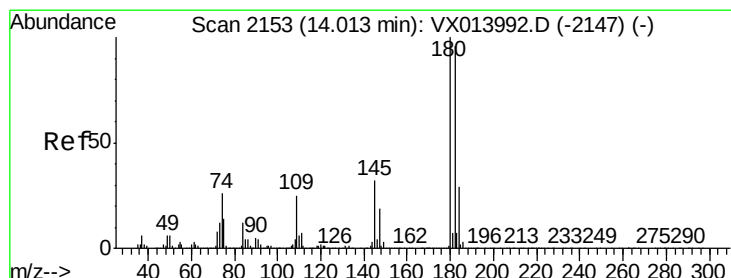
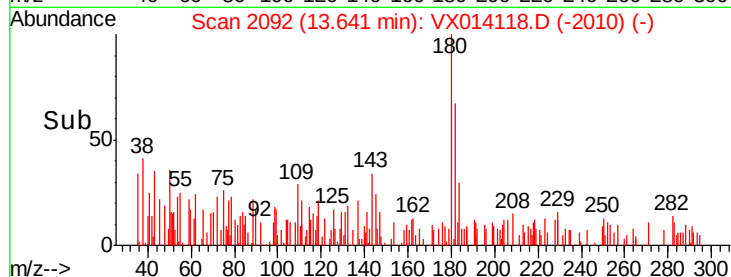
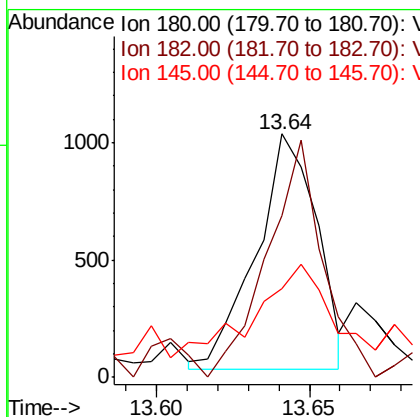
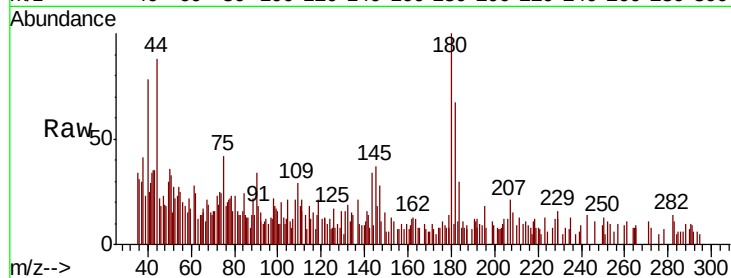




#89
 1,2,4-Trichlorobenzene
 Concen: 0.200 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX014118.D
 Acq: 19 Dec 2019 14:05

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:180 Resp: 1394
 Ion Ratio Lower Upper
 180 100
 182 91.5 76.4 114.6
 145 48.4 21.9 32.9#



#92
 1,2,3-Trichlorobenzene
 Concen: 0.218 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX014118.D
 Acq: 19 Dec 2019 14:05

Tgt Ion:180 Resp: 1540
 Ion Ratio Lower Upper
 180 100
 182 90.8 0.0 192.8
 145 7.9 0.0 60.0

