

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032620\
 Data File : VX015358.D
 Acq On : 26 Mar 2020 15:07
 Operator : JC/SP
 Sample : IBLK
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 27 07:50:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 26 02:31:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	197368	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.83	114	1107866	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	977904	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	462062	29.96	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.87%
60) 4-Bromofluorobenzene	11.12	95	508034	30.36	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.20%
63) Toluene-d8	8.70	98	1277024	30.74	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.47%

Target Compounds

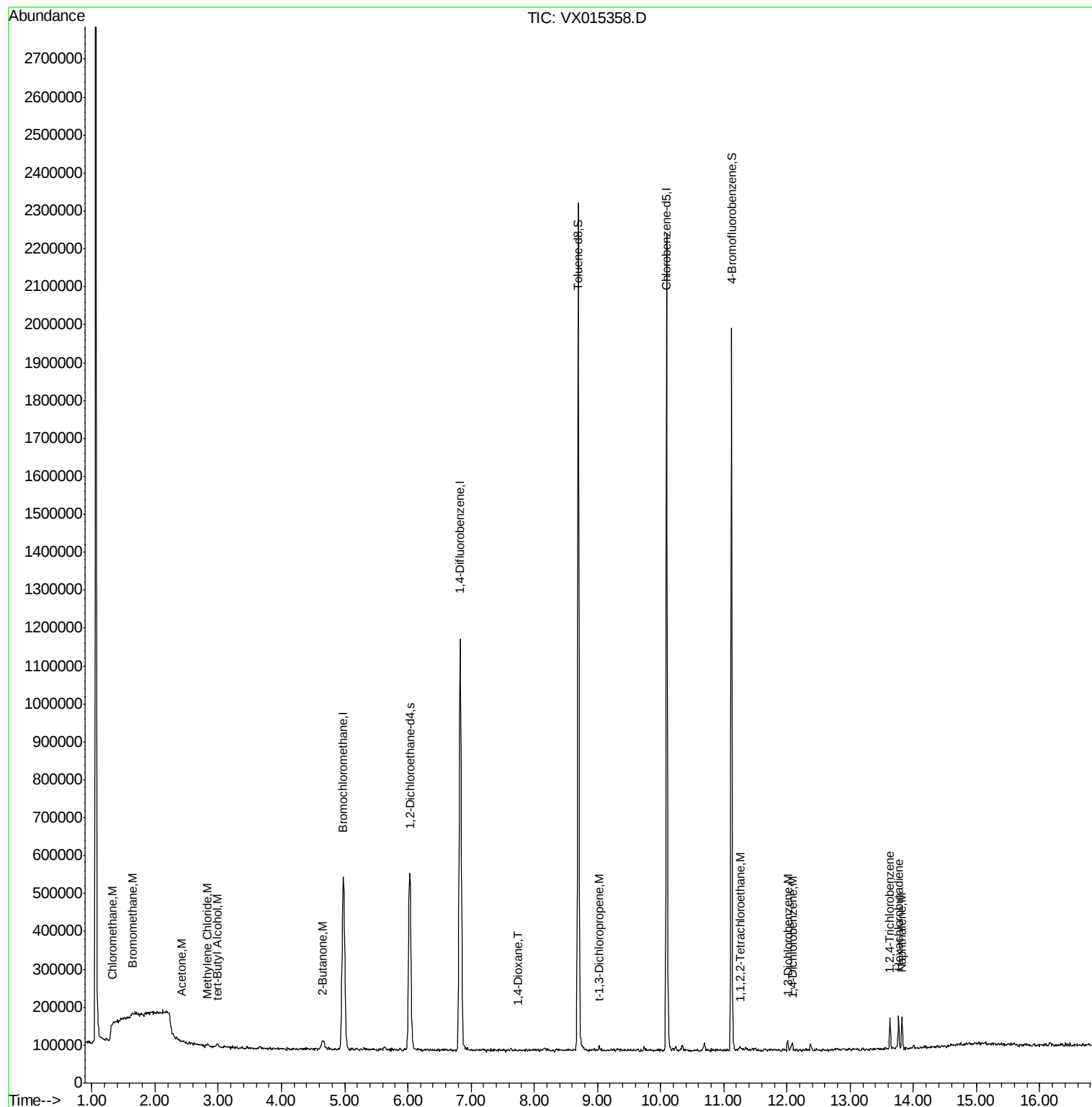
					Ovalue
3) Chloromethane	1.31	50	2494	0.214 ug/l	92
5) Bromomethane	1.65	94	1924	0.323 ug/l #	22
15) Acetone	2.42	58	601	0.351 ug/l	76
18) Methylene Chloride	2.83	84	2902	0.241 ug/l #	78
23) tert-Butyl Alcohol	3.00	59	1890	0.571 ug/l #	73
30) 2-Butanone	4.65	43	3057	0.306 ug/l #	78
45) 1,4-Dioxane	7.75	88	507	1.576 ug/l	89
48) t-1,3-Dichloropropene	9.03	75	7902	0.367 ug/l	92
71) 1,1,2,2-Tetrachloroethane	11.26	83	3983	0.221 ug/l #	47
83) 1,3-Dichlorobenzene	12.01	146	10738	0.401 ug/l	93
84) 1,4-Dichlorobenzene	12.08	146	6384	0.239 ug/l	89
89) 1,2,4-Trichlorobenzene	13.63	180	22188	1.054 ug/l	92
90) Hexachlorobutadiene	13.77	225	13449	1.213 ug/l	98
91) Naphthalene	13.82	128	53555	0.879 ug/l	96

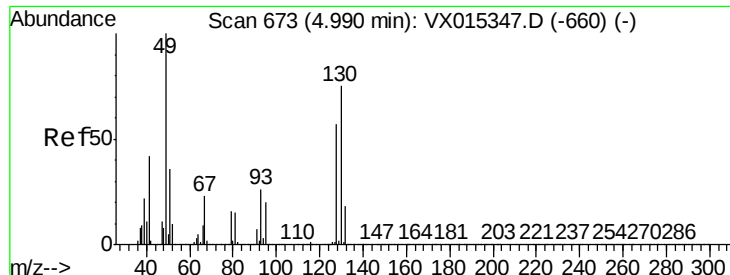
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 26 02:31:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 671

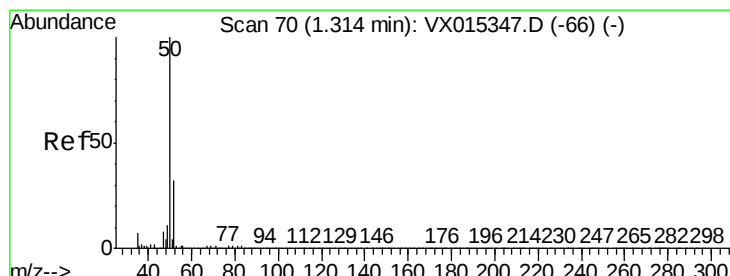
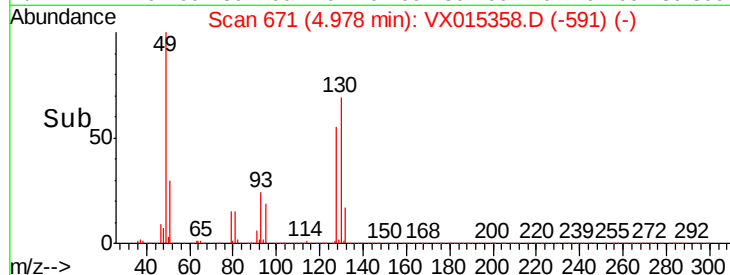
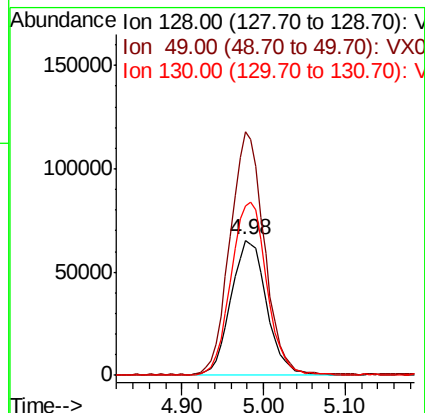
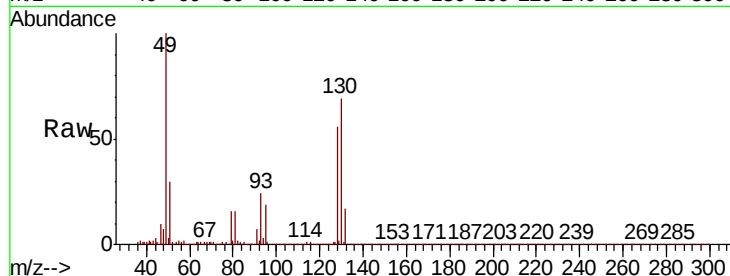
Delta R.T. -0.01 min

Lab File: VX015358.D

Acq: 26 Mar 2020 15:07

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	128	Resp:	197368
Ion	Ratio	Lower	Upper
128	100		
49	171.8	0.0	428.0
130	127.3	0.0	324.5



#3

Chloromethane

Concen: 0.214 ug/l

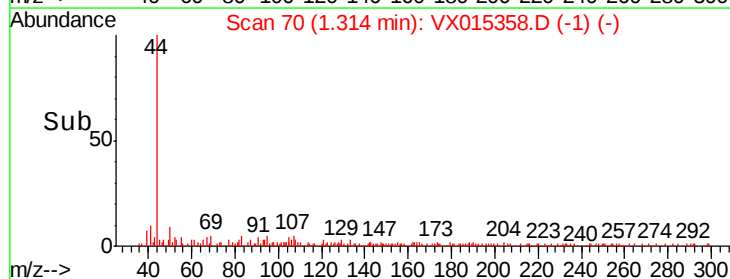
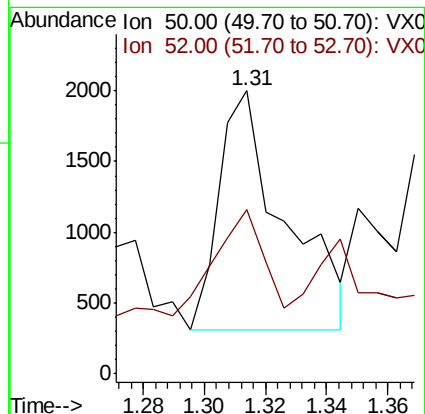
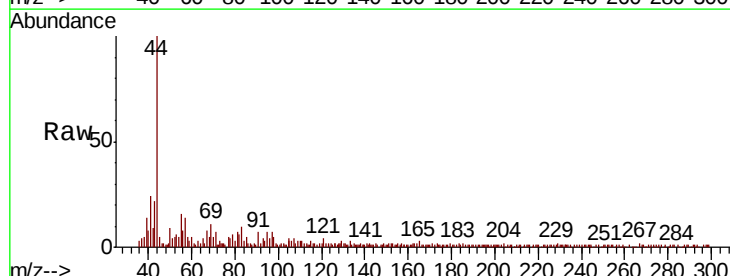
RT: 1.31 min Scan# 70

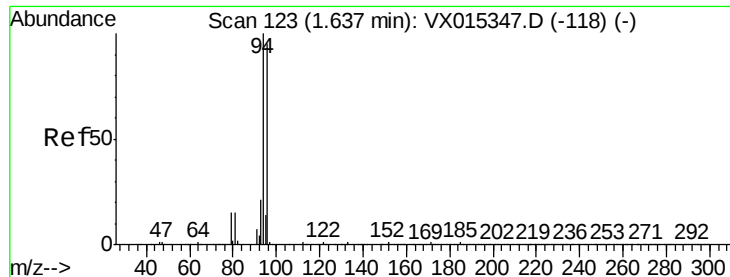
Delta R.T. 0.00 min

Lab File: VX015358.D

Acq: 26 Mar 2020 15:07

Tgt Ion:	50	Resp:	2494
Ion	Ratio	Lower	Upper
50	100		
52	36.5	25.5	38.3





#5

Bromomethane

Concen: 0.323 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.01 min

Lab File: VX015358.D

Acq: 26 Mar 2020 15:07

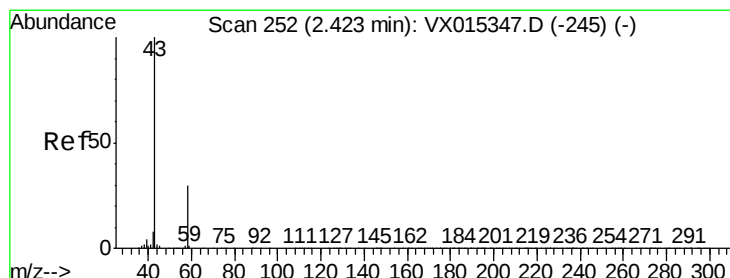
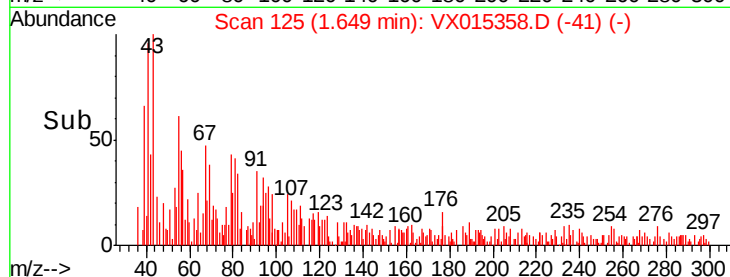
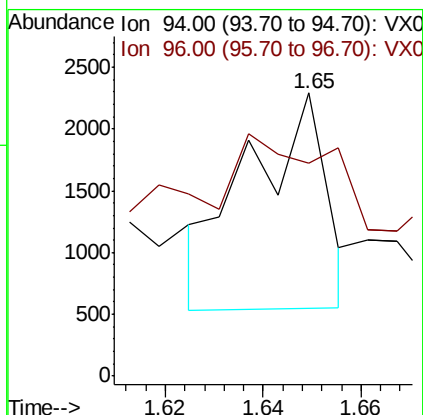
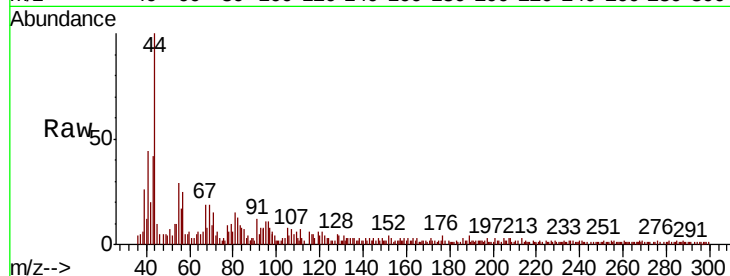
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 1924

Ion Ratio Lower Upper

94 100

96 19.6 76.1 114.1#



#15

Acetone

Concen: 0.351 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.01 min

Lab File: VX015358.D

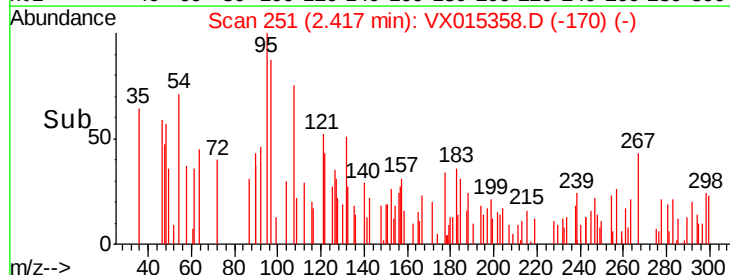
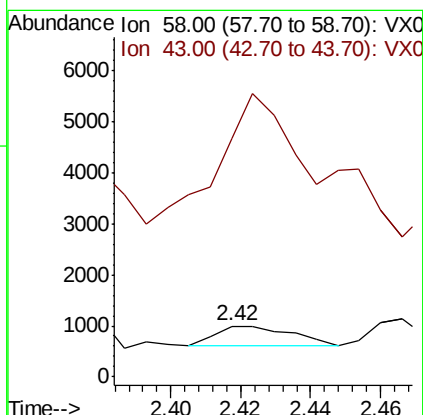
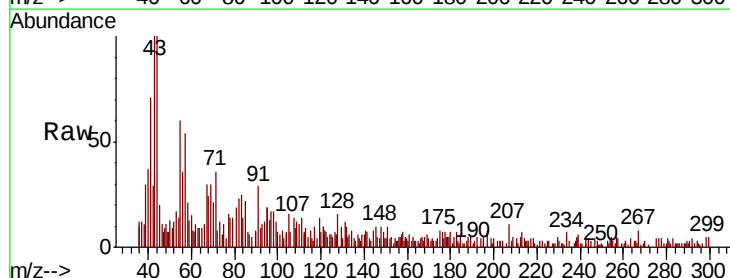
Acq: 26 Mar 2020 15:07

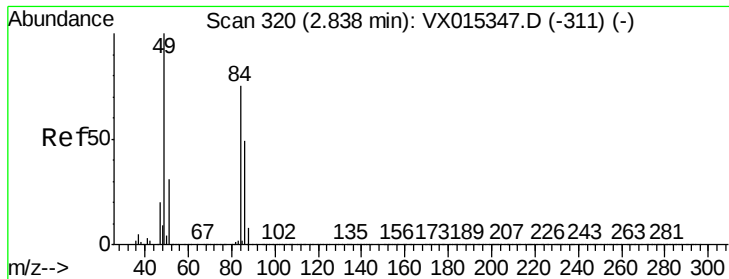
Tgt Ion: 58 Resp: 601

Ion Ratio Lower Upper

58 100

43 285.2 267.8 401.8

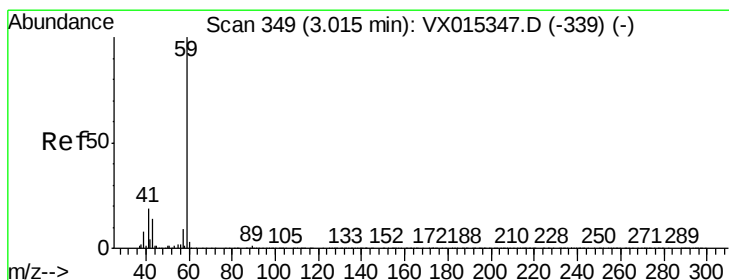
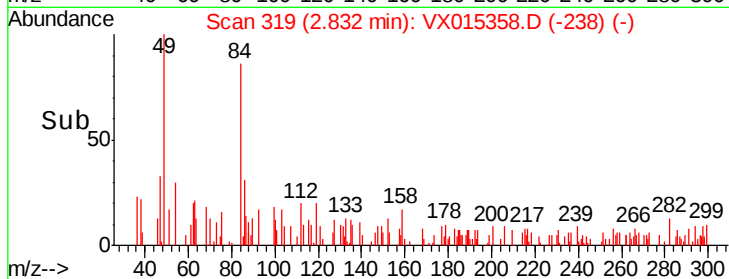
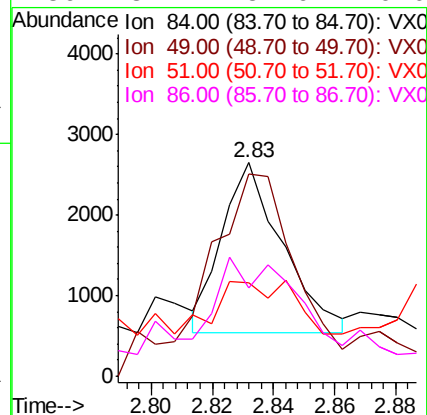
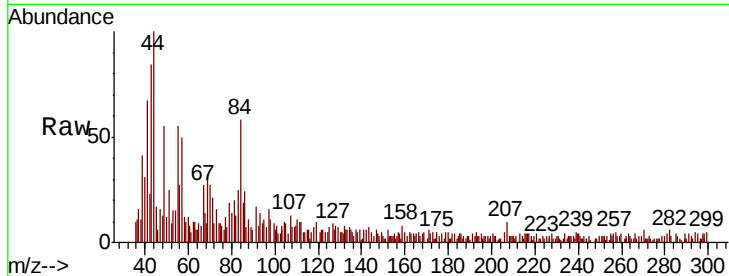




#18
Methylene Chloride
Concen: 0.241 ug/l
RT: 2.83 min Scan# 319
Delta R.T. -0.01 min
Lab File: VX015358.D
Acq: 26 Mar 2020 15:07

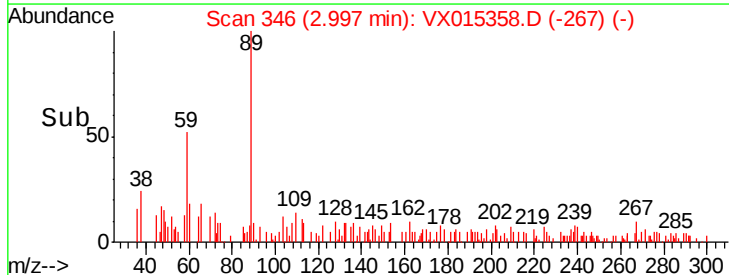
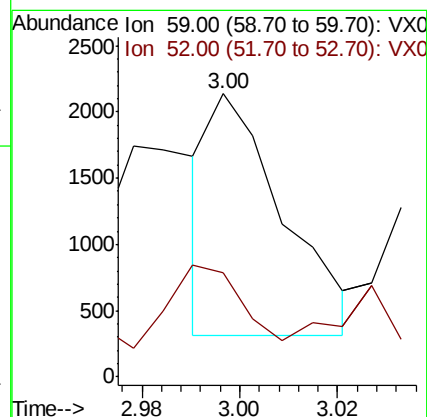
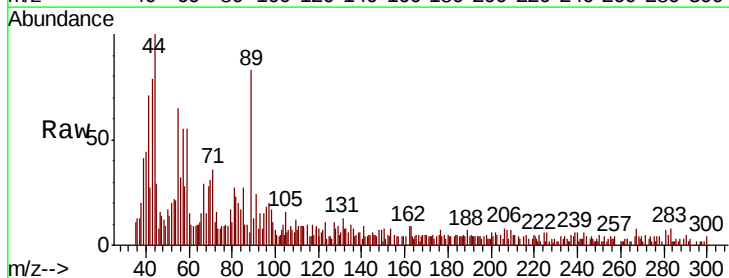
Instrument :
MSVOA_X
ClientSampleId :

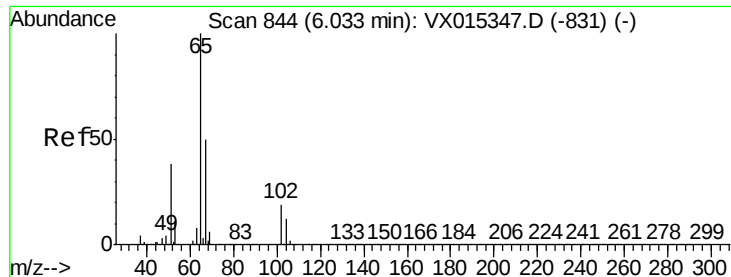
Tot Ion:	84	Resp:	2902
Ion	Ratio	Lower	Upper
84	100		
49	112.2	107.0	160.4
51	33.2	33.4	50.0#
86	37.2	52.6	79.0#



#23
tert-Butyl Alcohol
Concen: 0.571 ug/l
RT: 3.00 min Scan# 346
Delta R.T. -0.02 min
Lab File: VX015358.D
Acq: 26 Mar 2020 15:07

Tgt Ion:	59	Resp:	1890
Ion	Ratio	Lower	Upper
59	100		
52	34.5	0.2	0.2#





#27

1,2-Dichloroethane-d4

Concen: 29.960 ug/l

RT: 6.03 min Scan# 843

Delta R.T. -0.01 min

Lab File: VX015358.D

Acq: 26 Mar 2020 15:07

Instrument :

MSVOA_X

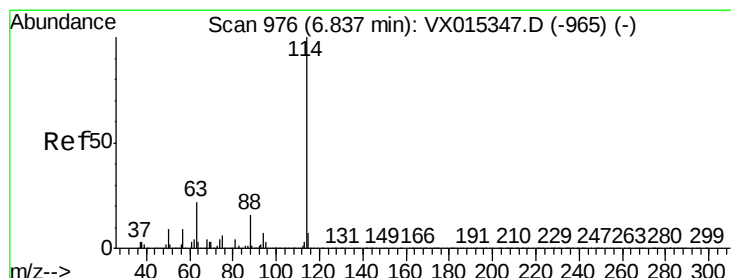
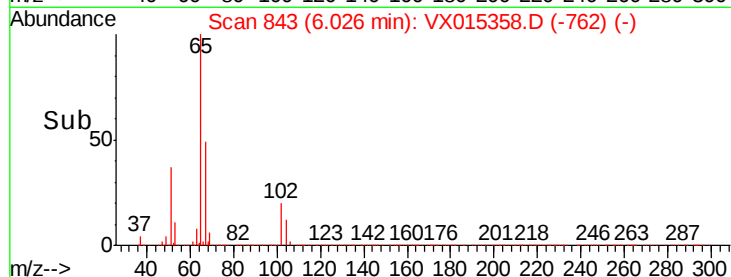
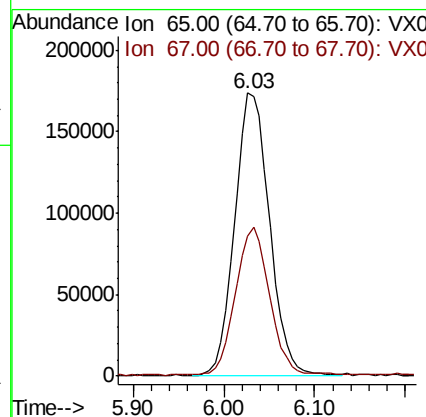
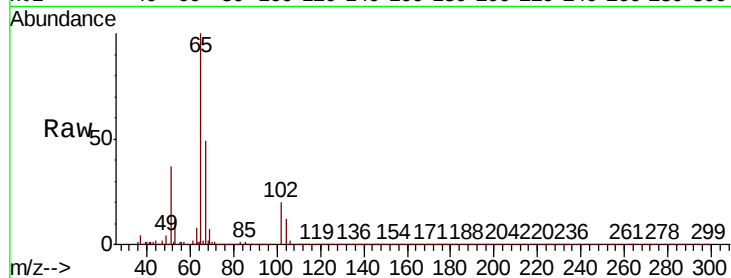
ClientSampled :

Tot Ion: 65 Resp: 462062

Ion Ratio Lower Upper

65 100

67 50.6 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.83 min Scan# 975

Delta R.T. -0.01 min

Lab File: VX015358.D

Acq: 26 Mar 2020 15:07

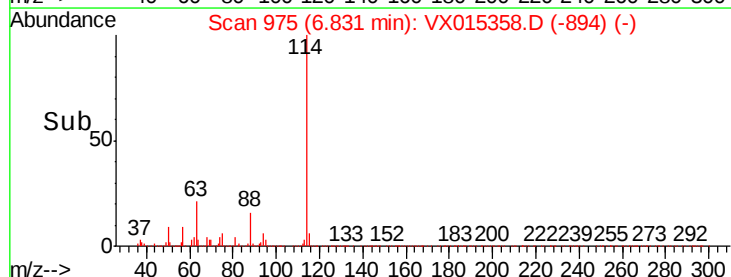
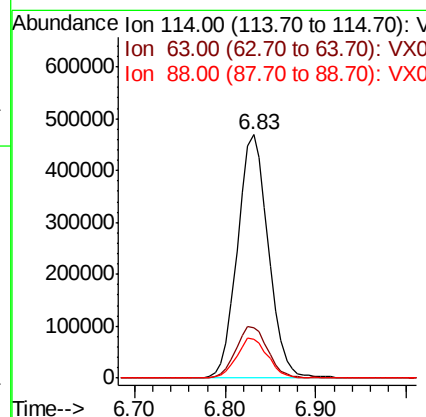
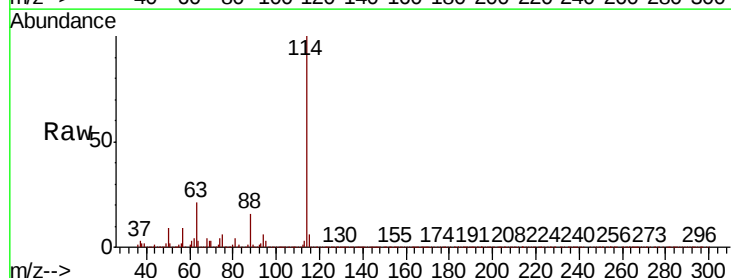
Tgt Ion: 114 Resp: 1107866

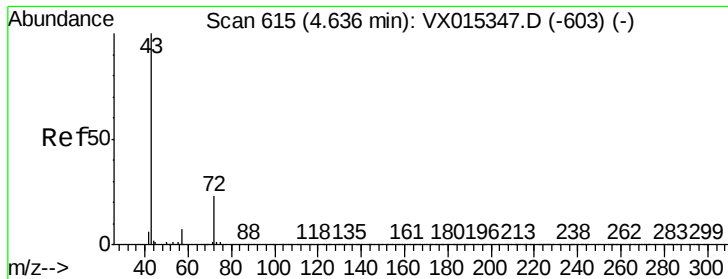
Ion Ratio Lower Upper

114 100

63 21.8 17.4 26.2

88 16.4 12.9 19.3





#30

2-Butanone

Concen: 0.306 ug/l

RT: 4.65 min Scan# 617

Delta R.T. 0.01 min

Lab File: VX015358.D

Acq: 26 Mar 2020 15:07

Instrument :

MSVOA_X

ClientSampled :

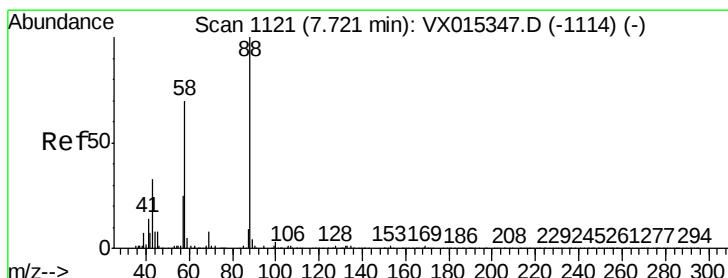
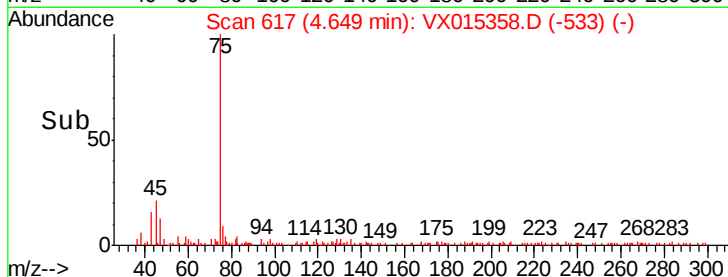
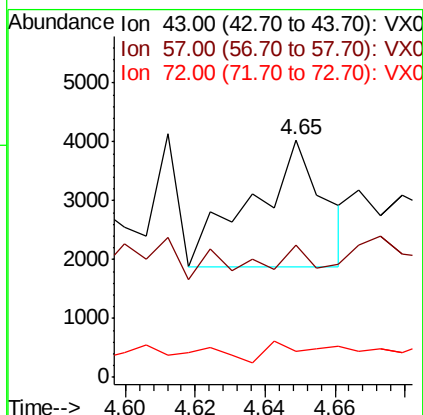
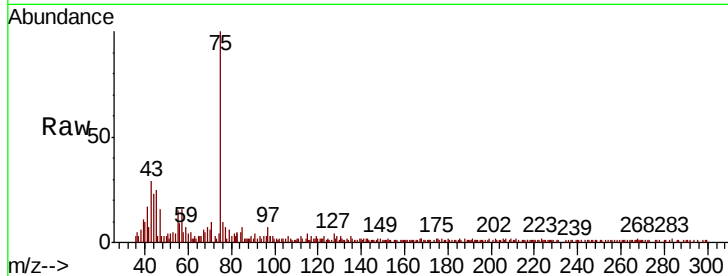
Tot Ion: 43 Resp: 3057

Ion Ratio Lower Upper

43 100

57 5.1 5.9 8.9#

72 10.1 18.6 27.8#



#45

1,4-Dioxane

Concen: 1.576 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.02 min

Lab File: VX015358.D

Acq: 26 Mar 2020 15:07

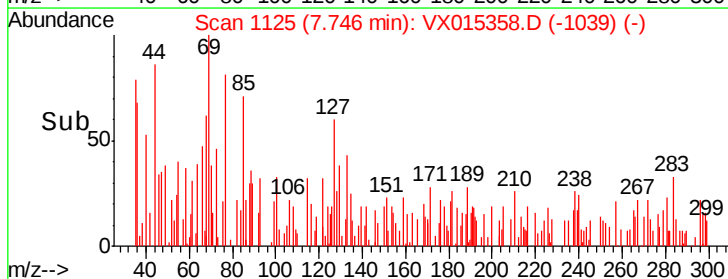
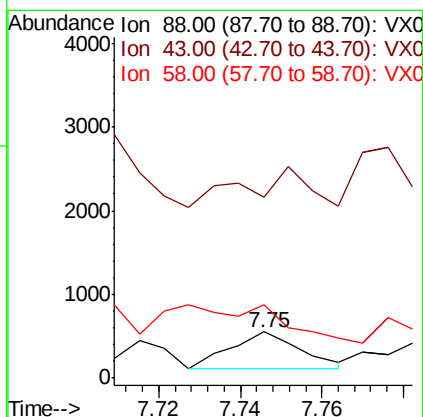
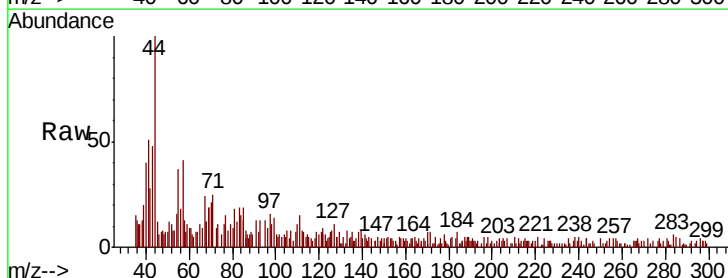
Tgt Ion: 88 Resp: 507

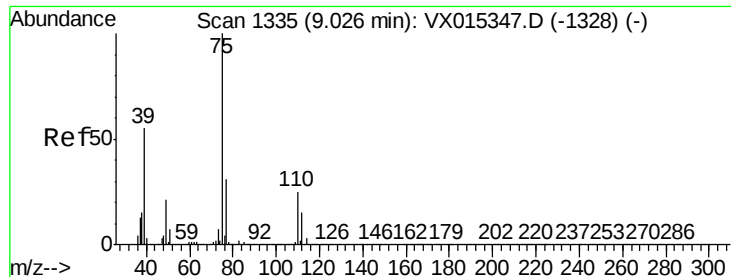
Ion Ratio Lower Upper

88 100

43 45.8 32.1 48.1

58 63.5 59.4 89.0

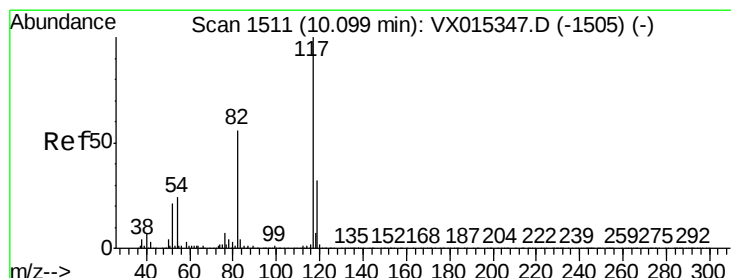
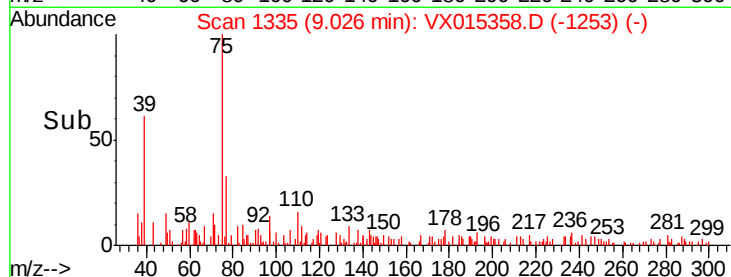
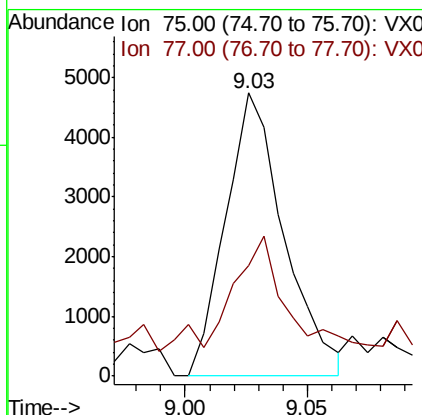
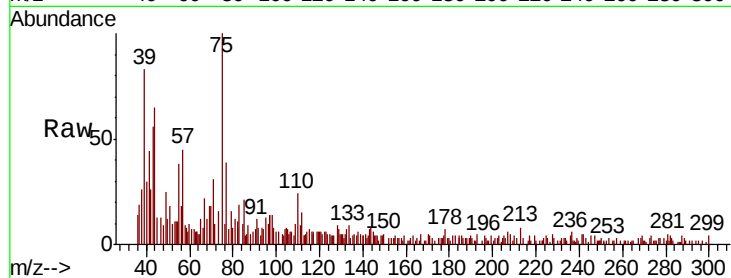




#48
t-1,3-Dichloropropene
Concen: 0.367 ug/l
RT: 9.03 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VX015358.D
Acq: 26 Mar 2020 15:07

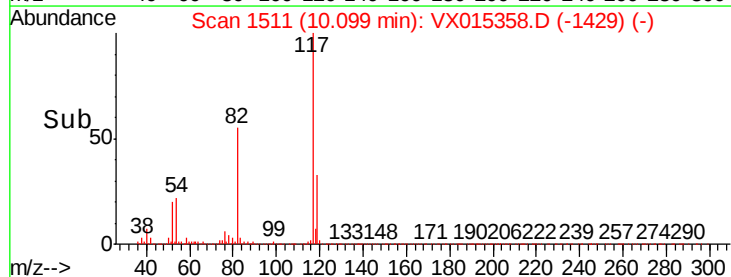
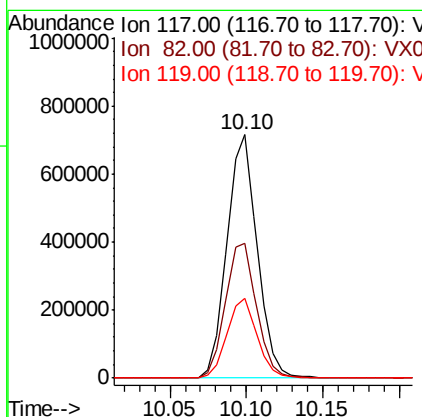
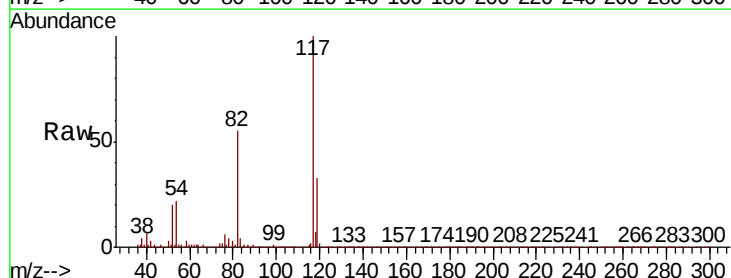
Instrument :
MSVOA_X
ClientSampled :

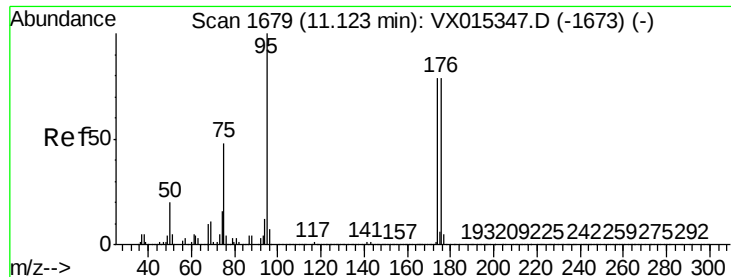
Tot Ion: 75 Resp: 7902
Ion Ratio Lower Upper
75 100
77 26.4 24.6 37.0



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015358.D
Acq: 26 Mar 2020 15:07

Tgt Ion: 117 Resp: 977904
Ion Ratio Lower Upper
117 100
82 57.1 45.0 67.6
119 32.5 25.5 38.3

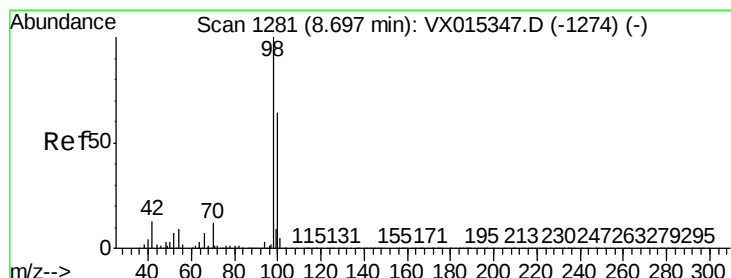
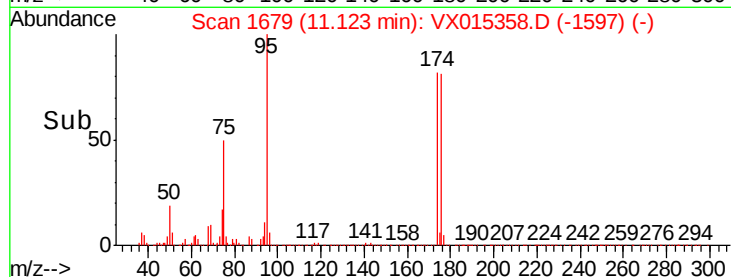
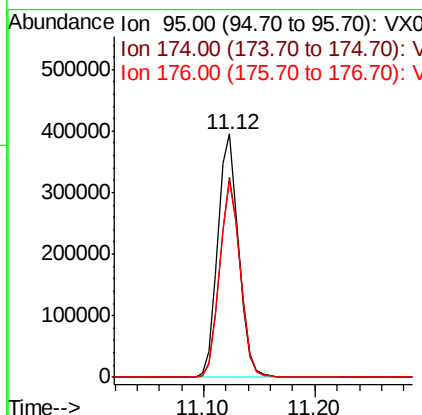
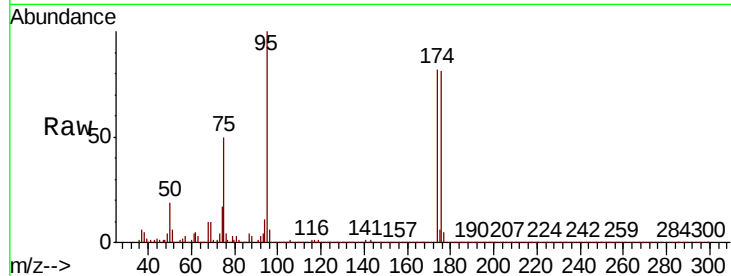




#60
4-Bromofluorobenzene
Concen: 30.356 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VX015358.D
Acq: 26 Mar 2020 15:07

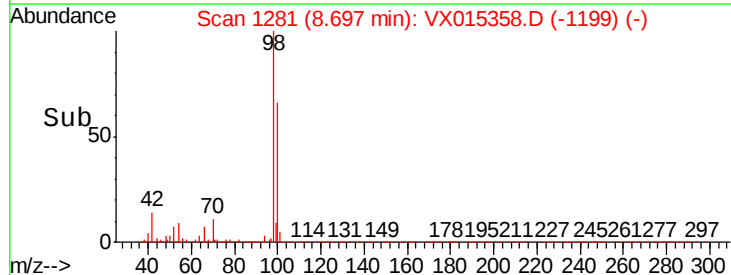
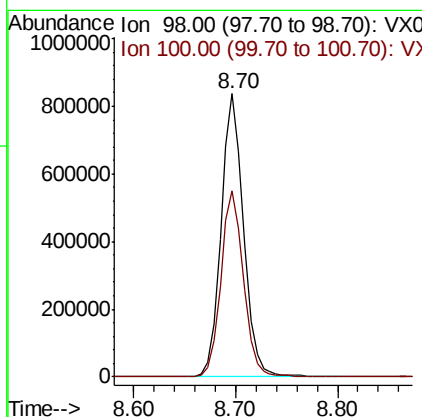
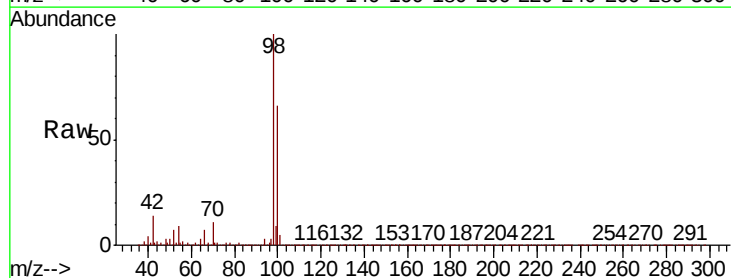
Instrument :
MSVOA_X
ClientSampleId :

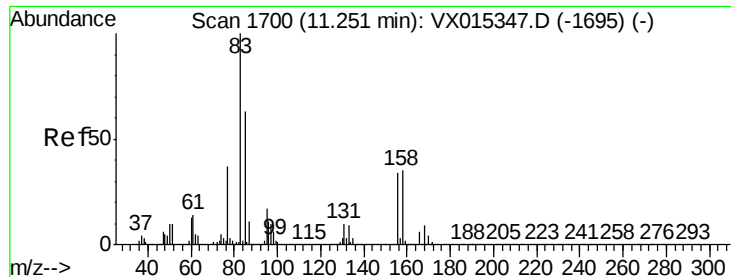
Tot Ion: 95 Resp: 508034
Ion Ratio Lower Upper
95 100
174 81.3 66.4 99.6
176 80.1 64.1 96.1



#63
Toluene-d8
Concen: 30.737 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015358.D
Acq: 26 Mar 2020 15:07

Tgt Ion: 98 Resp: 1277024
Ion Ratio Lower Upper
98 100
100 66.1 52.2 78.2

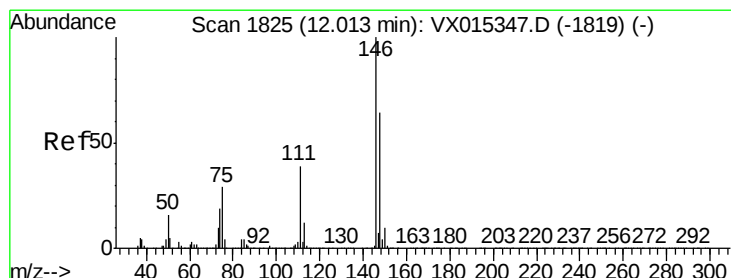
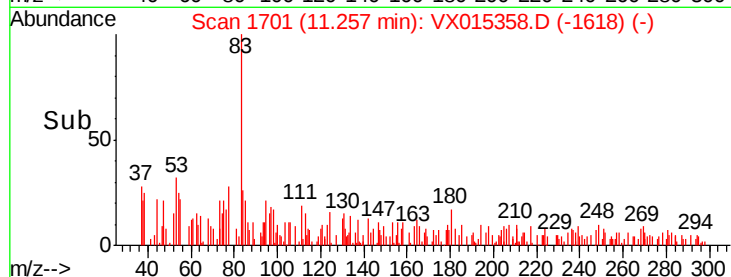
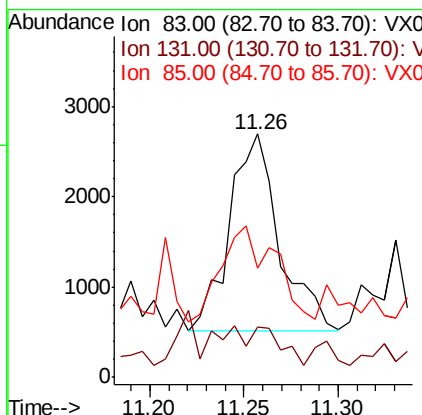
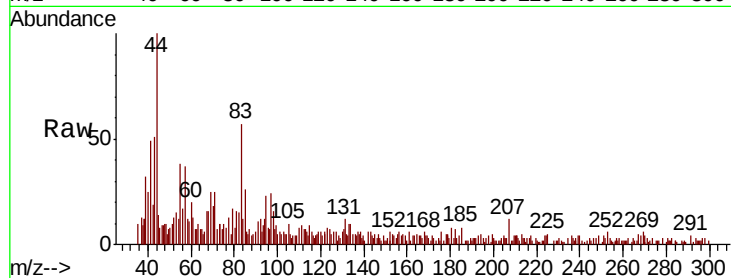




#71
 1,1,2,2-Tetrachloroethane
 Concen: 0.221 ug/l
 RT: 11.26 min Scan# 1701
 Delta R.T. 0.01 min
 Lab File: VX015358.D
 Acq: 26 Mar 2020 15:07

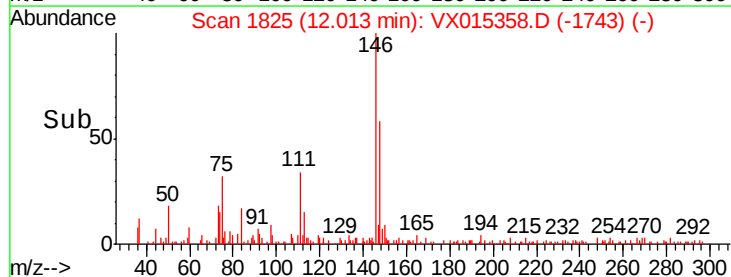
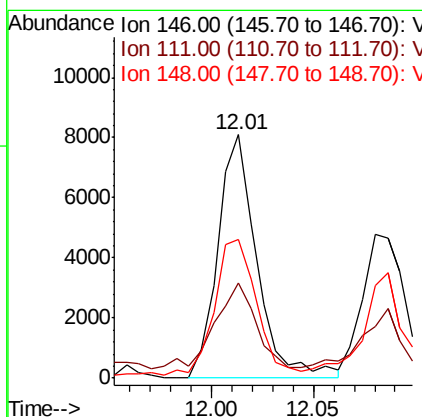
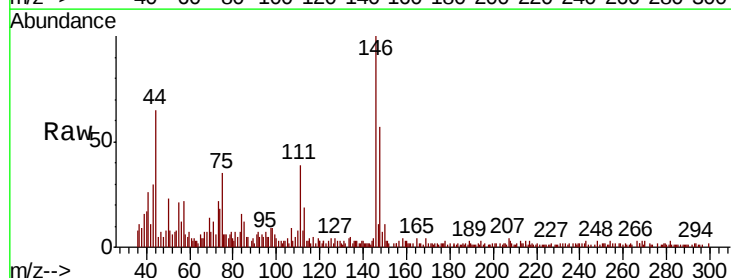
Instrument :
 MSVOA_X
 ClientSampleId :

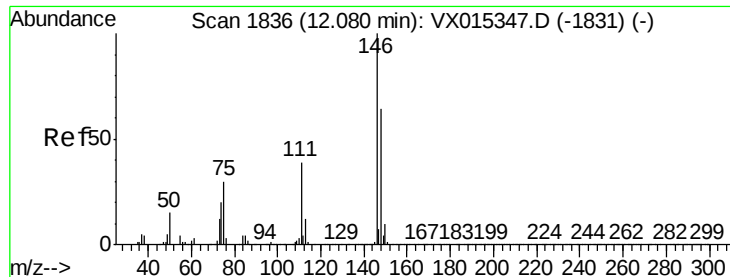
Tot Ion	Ratio	Lower	Upper
83	100		
131	13.3	5.3	15.9
85	16.5	32.0	96.2#



#83
 1,3-Dichlorobenzene
 Concen: 0.401 ug/l
 RT: 12.01 min Scan# 1825
 Delta R.T. 0.00 min
 Lab File: VX015358.D
 Acq: 26 Mar 2020 15:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.8	20.1	60.2
148	59.2	31.4	94.2

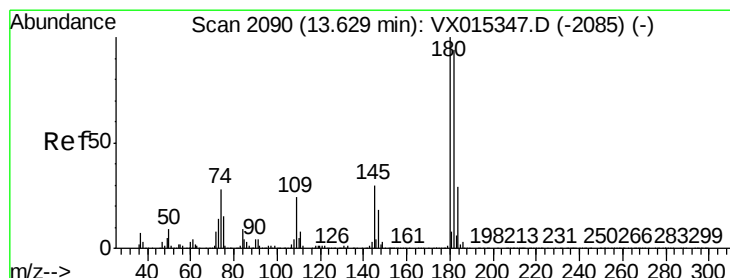
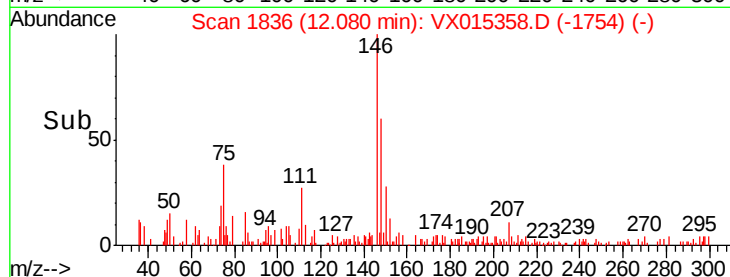
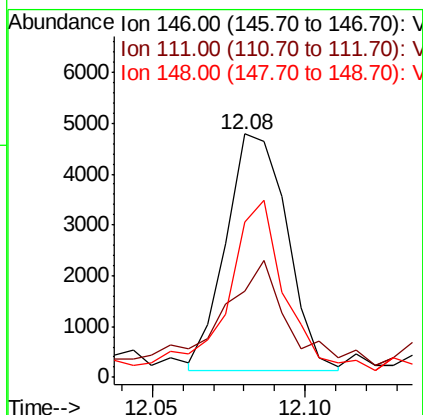
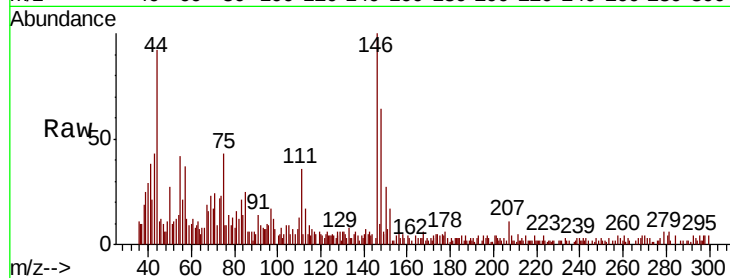




#84
 1,4-Dichlorobenzene
 Concen: 0.239 ug/l
 RT: 12.08 min Scan# 1836
 Delta R.T. 0.00 min
 Lab File: VX015358.D
 Acq: 26 Mar 2020 15:07

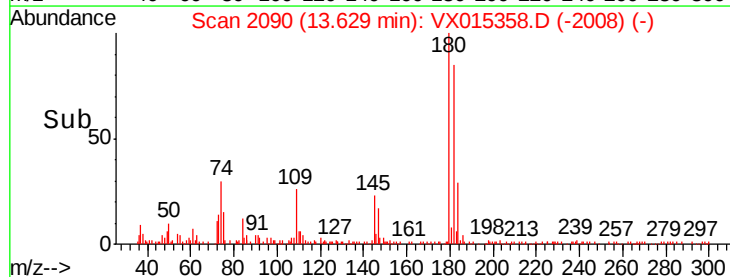
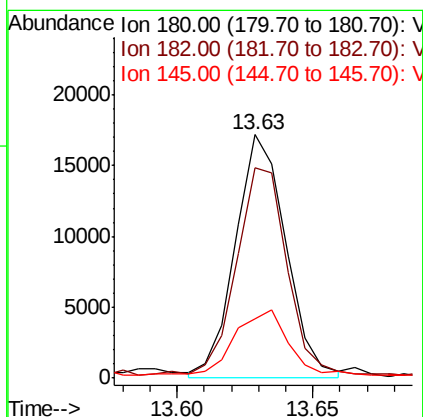
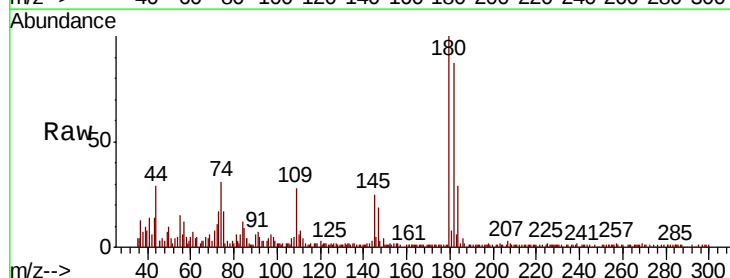
Instrument :
 MSVOA_X
 ClientSampleId :

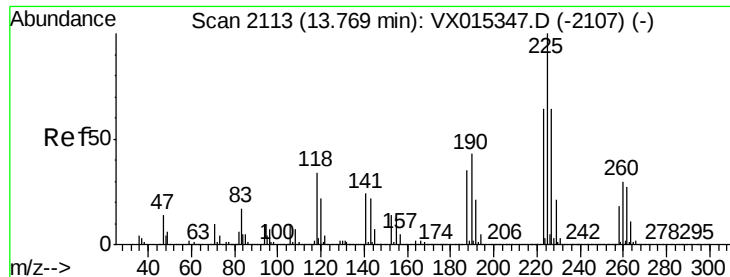
Tot Ion	Ratio	Lower	Upper
146	100		
111	48.7	18.9	56.9
148	68.5	31.4	94.3



#89
 1,2,4-Trichlorobenzene
 Concen: 1.054 ug/l
 RT: 13.63 min Scan# 2090
 Delta R.T. 0.00 min
 Lab File: VX015358.D
 Acq: 26 Mar 2020 15:07

Tgt Ion	Ratio	Lower	Upper
180	100		
182	87.5	76.9	115.3
145	28.3	24.3	36.5





#90

Hexachlorobutadiene

Concen: 1.213 ug/l

RT: 13.77 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VX015358.D

Acq: 26 Mar 2020 15:07

Instrument :

MSVOA_X

ClientSampleId :

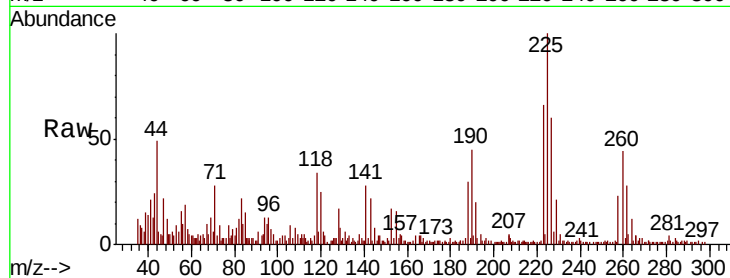
Tot Ion:225 Resp: 13449

Ion Ratio Lower Upper

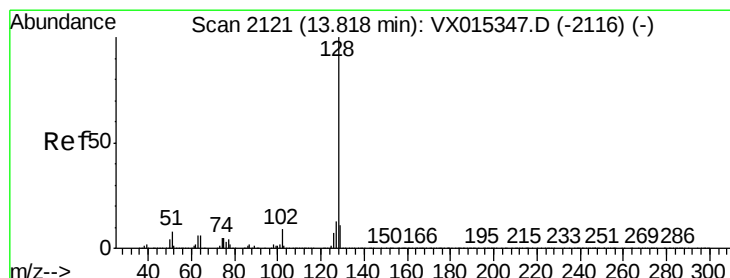
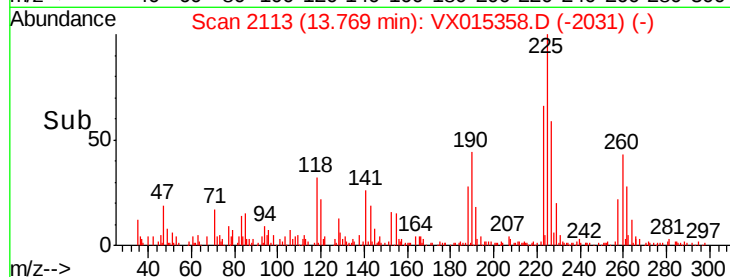
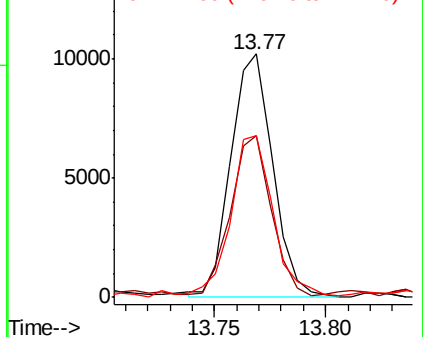
225 100

223 64.2 0.0 127.0

227 66.0 0.0 126.8



Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 0.879 ug/l

RT: 13.82 min Scan# 2121

Delta R.T. 0.00 min

Lab File: VX015358.D

Acq: 26 Mar 2020 15:07

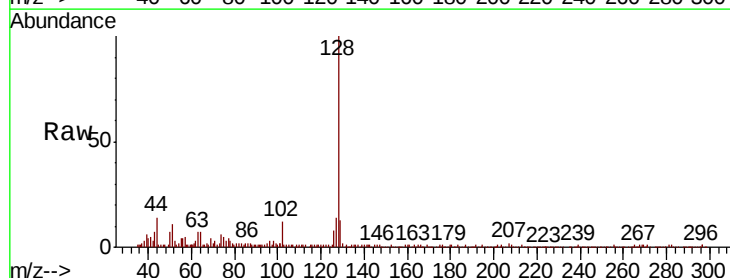
Tgt Ion:128 Resp: 53555

Ion Ratio Lower Upper

128 100

127 14.1 10.3 15.5

129 12.7 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

