

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111419\
 Data File : VX013420.D
 Acq On : 14 Nov 2019 14:26
 Operator : JC/SP
 Sample : K5828-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 15 00:56:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	112703	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	623611	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	538177	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	249540	29.98	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.93%
60) 4-Bromofluorobenzene	11.14	95	237572	27.46	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.53%
63) Toluene-d8	8.71	98	745700	30.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.13%

Target Compounds

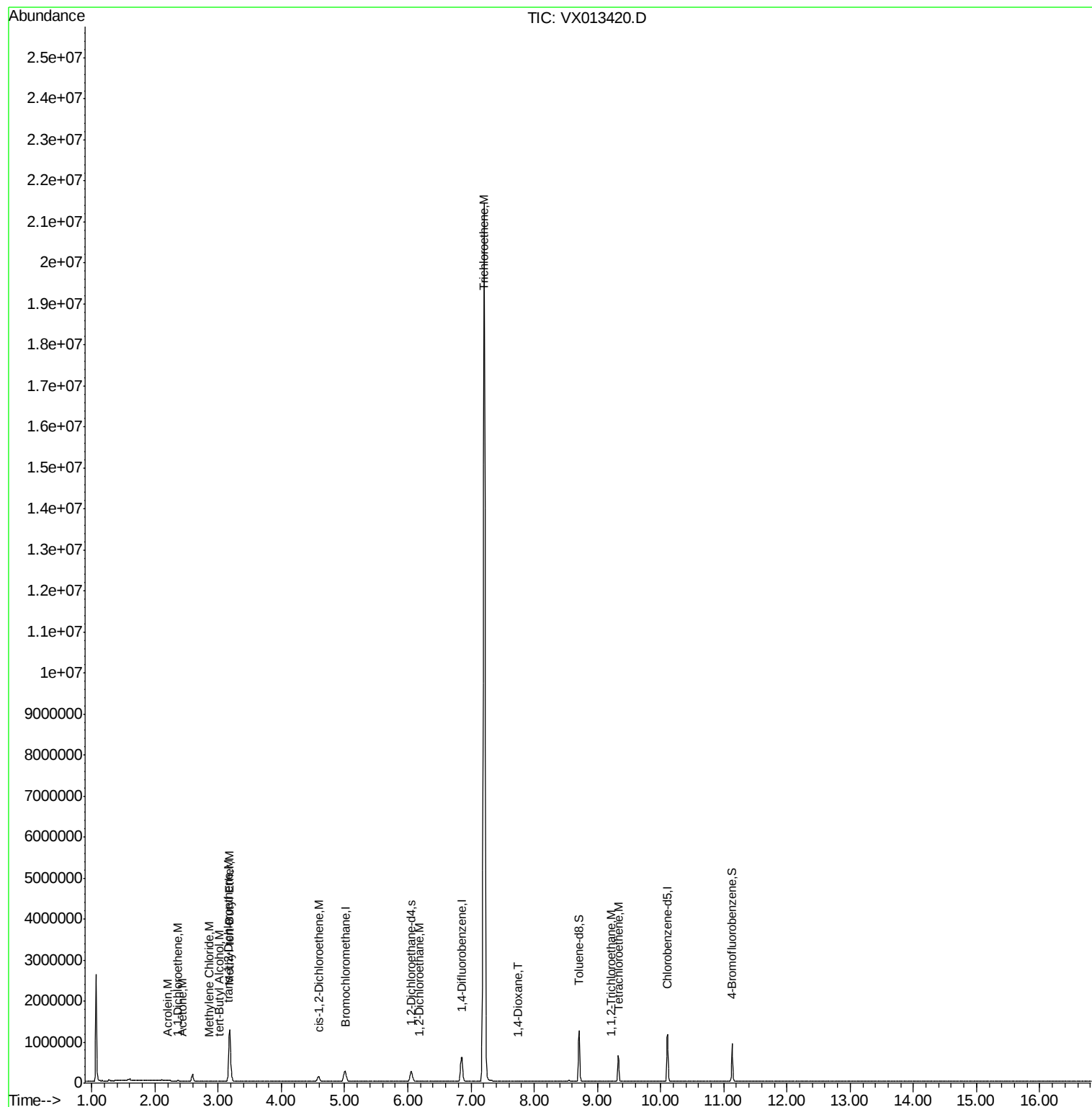
					Ovalue	
10) 1,1-Dichloroethene	2.36	96	7366	1.058	ug/l	96
13) Acrolein	2.20	56	478	0.369	ug/l	93
15) Acetone	2.43	58	3884	2.859	ug/l	93
18) Methylene Chloride	2.85	84	1603	0.203	ug/l #	82
19) trans-1,2-Dichloroethene	3.16	96	3783	0.509	ug/l #	93
22) cis-1,2-Dichloroethene	4.59	96	79050	9.321	ug/l	87
23) tert-Butyl Alcohol	3.02	59	7840	3.632	ug/l #	99
24) Methyl tert-Butyl Ether	3.18	73	1393581	60.493	ug/l	100
36) 1,2-Dichloroethane	6.19	62	11730	1.160	ug/l	99
37) Trichloroethene	7.21	130	8329344	1076.157	ug/l	94
45) 1,4-Dioxane	7.74	88	404	1.985	ug/l #	29
50) 1,1,2-Trichloroethane	9.22	97	3763	0.512	ug/l #	76
61) Tetrachloroethene	9.33	164	123851	18.663	ug/l	95

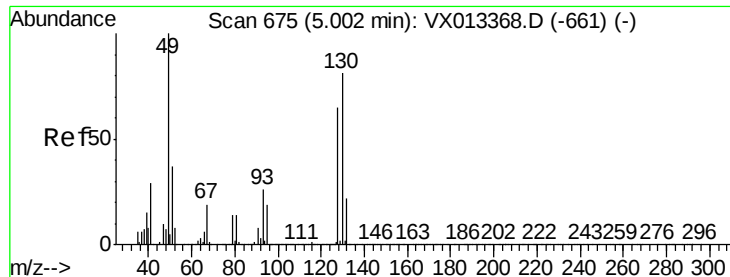
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX111419\
Data File : VX013420.D
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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Nov 15 00:56:12 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 12 01:16:13 2019
Response via : Initial Calibration



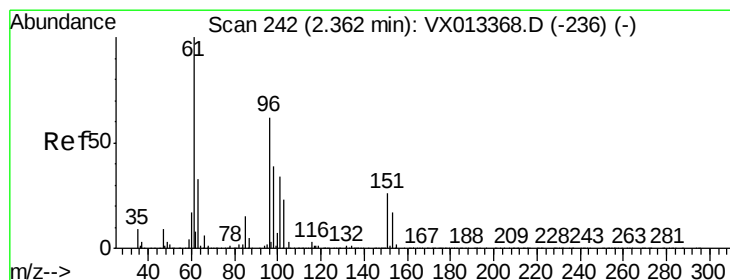
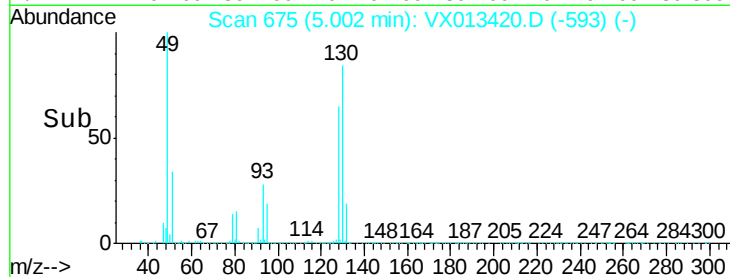
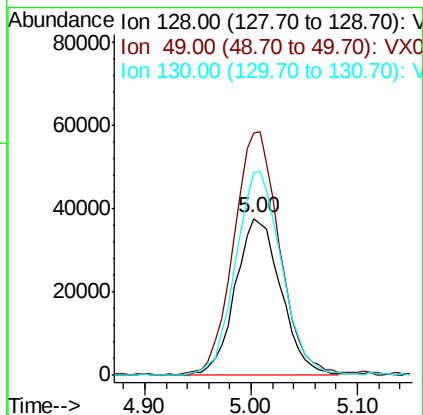
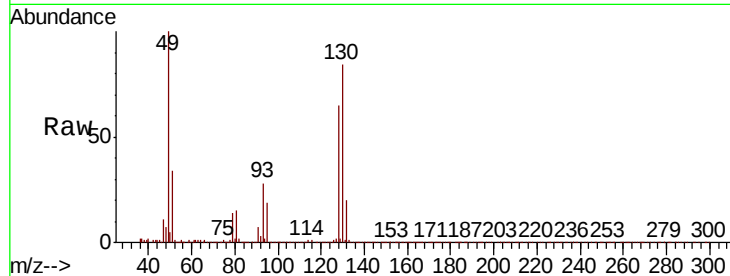


#1

Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.00 min Scan# 675
 Delta R.T. 0.00 min
 Lab File: VX013420.D
 Acq: 14 Nov 2019 14:26

Instrument :
 MSVOA_X
 ClientSampleId :

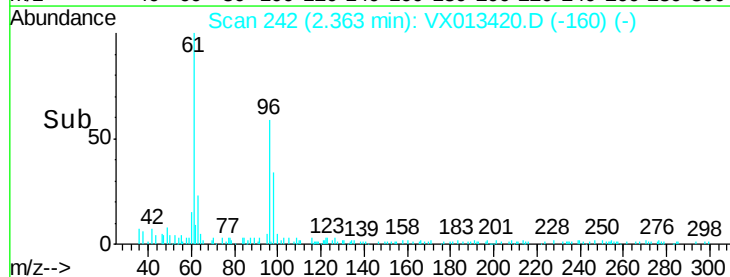
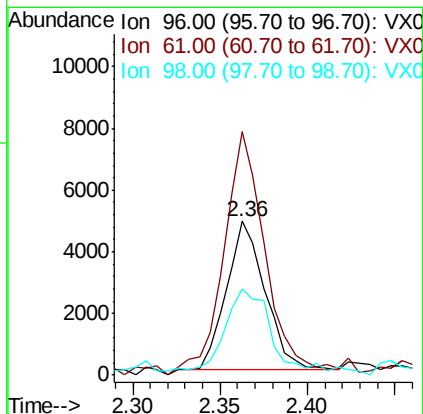
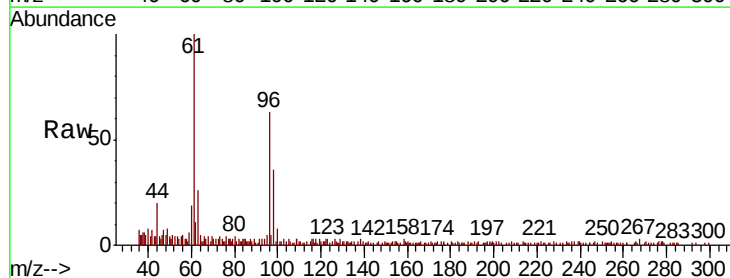
Tot Ion	Ratio	Lower	Upper
128	100		
49	156.9	0.0	388.3
130	130.8	0.0	318.5

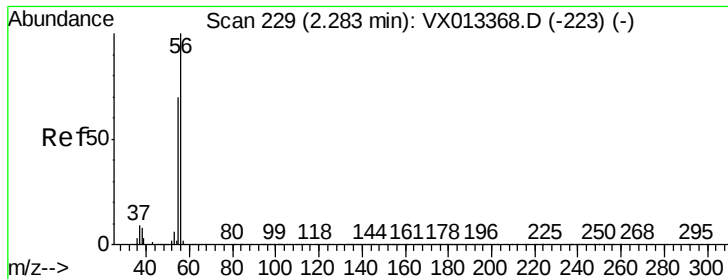


#10

1,1-Dichloroethene
 Concen: 1.058 ug/l
 RT: 2.36 min Scan# 242
 Delta R.T. 0.00 min
 Lab File: VX013420.D
 Acq: 14 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.9	128.9	193.3
98	53.0	49.7	74.5





#13

Acrolein

Concen: 0.369 ug/l

RT: 2.20 min Scan# 215

Delta R.T. -0.09 min

Lab File: VX013420.D

Acq: 14 Nov 2019 14:26

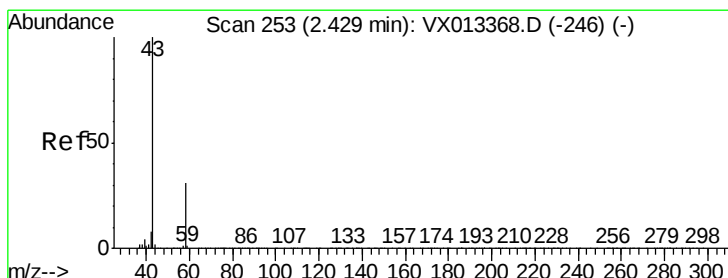
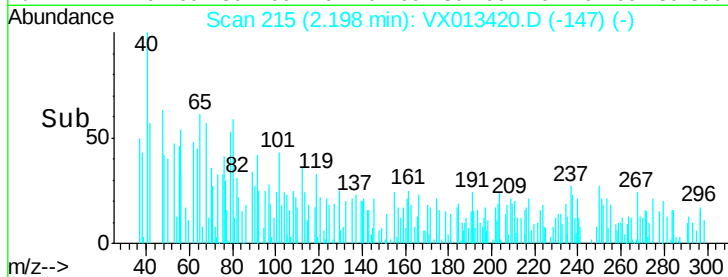
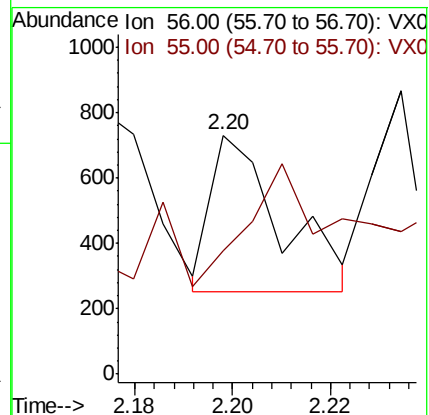
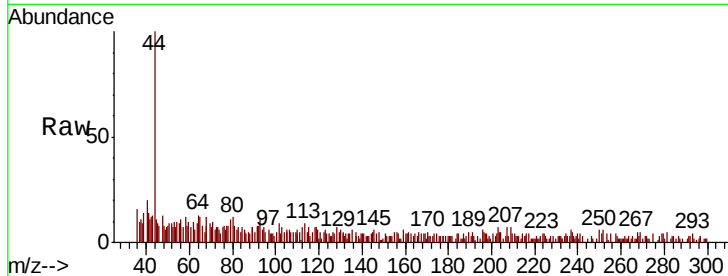
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 478

Ion Ratio Lower Upper

56 100

55 64.4 55.8 83.8



#15

Acetone

Concen: 2.859 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013420.D

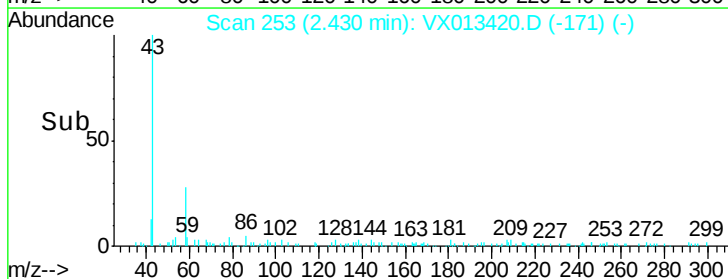
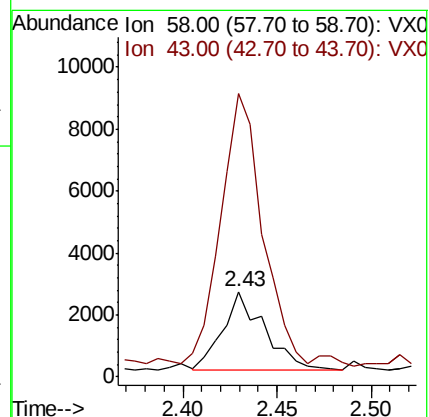
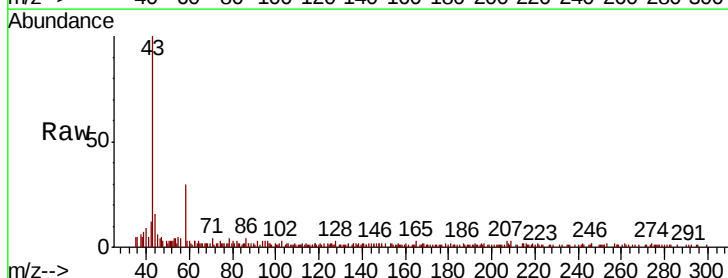
Acq: 14 Nov 2019 14:26

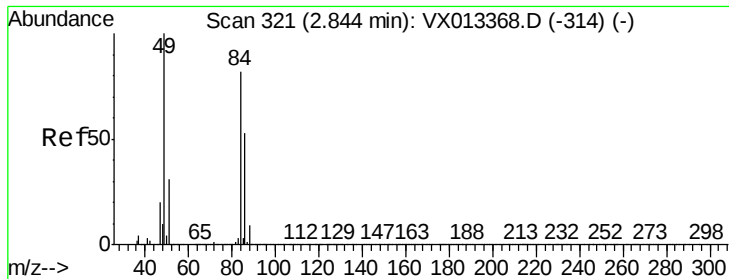
Tgt Ion: 58 Resp: 3884

Ion Ratio Lower Upper

58 100

43 341.9 261.4 392.2

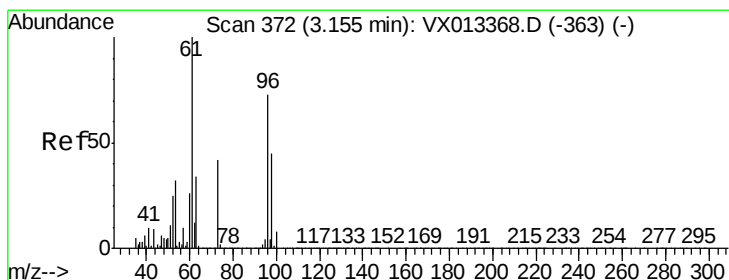
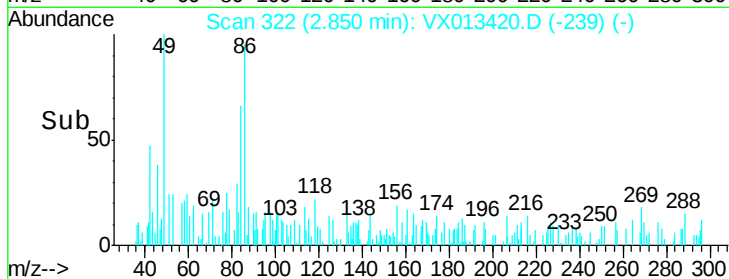
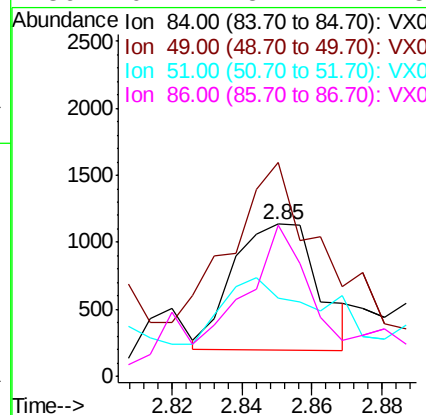
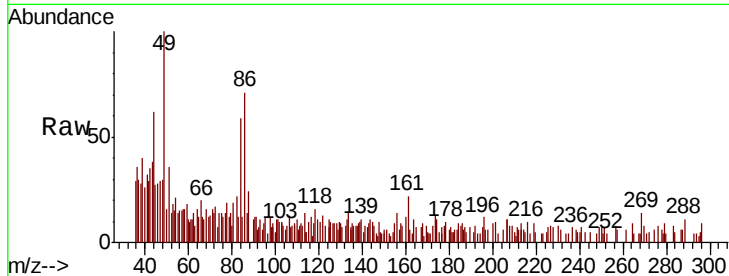




#18
Methvlene Chloride
Concen: 0.203 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013420.D
Acq: 14 Nov 2019 14:26

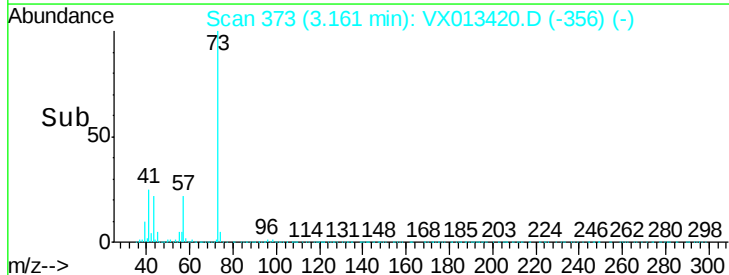
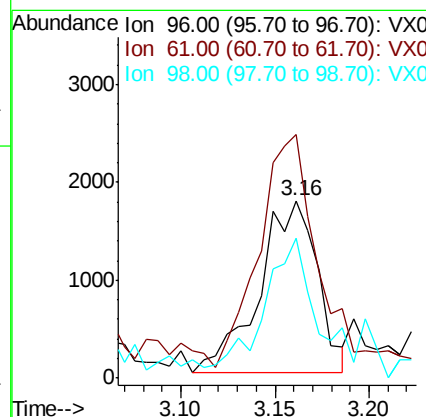
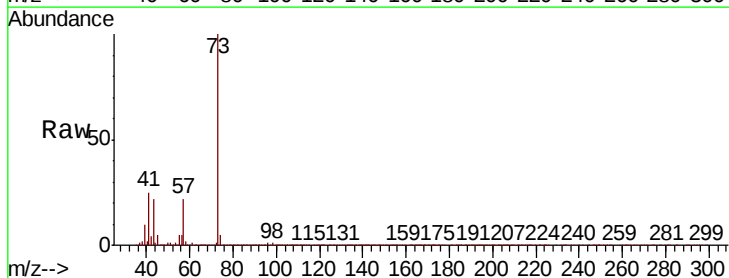
Instrument :
MSVOA_X
ClientSampled :

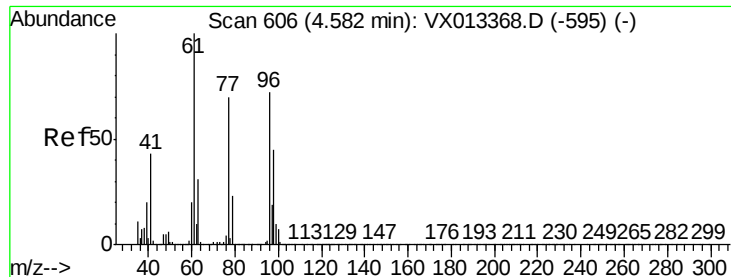
Tot Ion: 84 Resp: 1603
Ion Ratio Lower Upper
84 100
49 114.8 96.8 145.2
51 39.9 30.0 45.0
86 102.7 51.7 77.5#



#19
trans-1,2-Dichloroethene
Concen: 0.509 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX013420.D
Acq: 14 Nov 2019 14:26

Tgt Ion: 96 Resp: 3783
Ion Ratio Lower Upper
96 100
61 134.8 109.9 164.9
98 75.6 49.7 74.5#



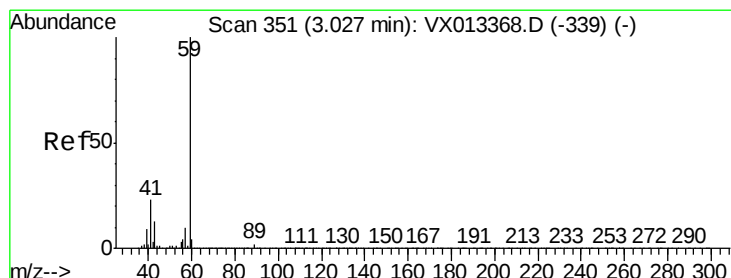
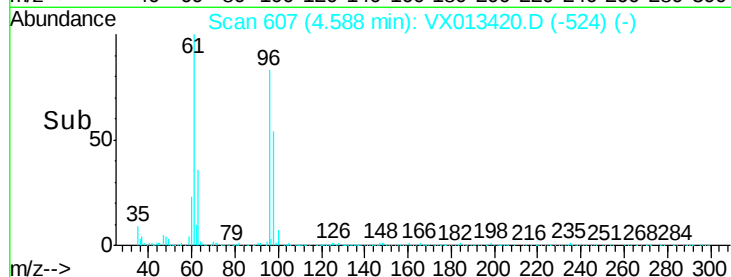
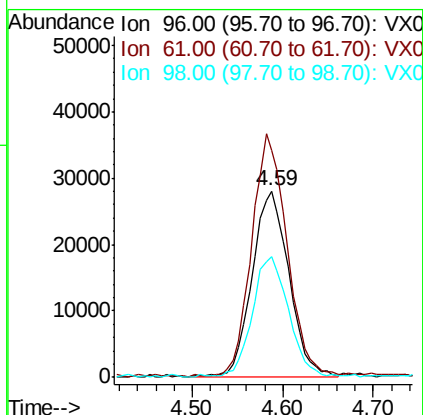
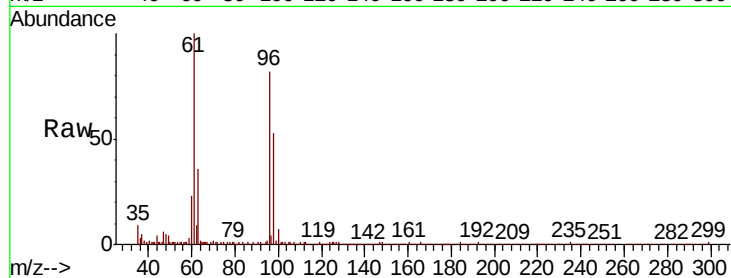


#22

cis-1,2-Dichloroethene
Concen: 9.321 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013420.D
Acq: 14 Nov 2019 14:26

Instrument :
MSVOA_X
ClientSampleId :

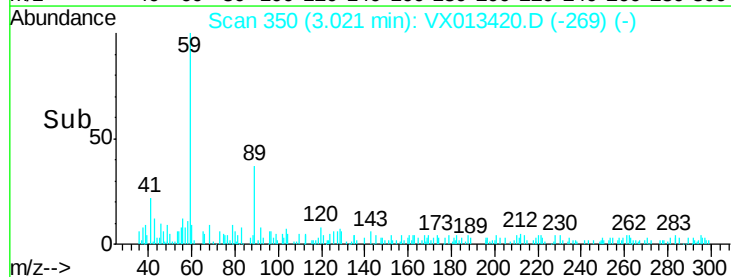
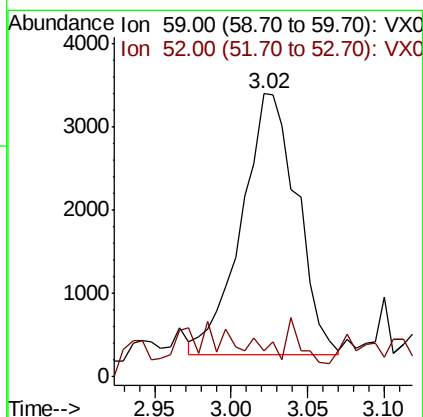
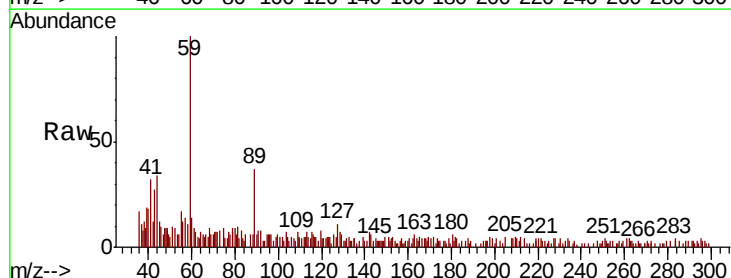
Tot Ion	96	Resp	79050
Ion	Ratio	Lower	Upper
96	100		
61	124.6	117.0	175.6
98	62.2	51.1	76.7

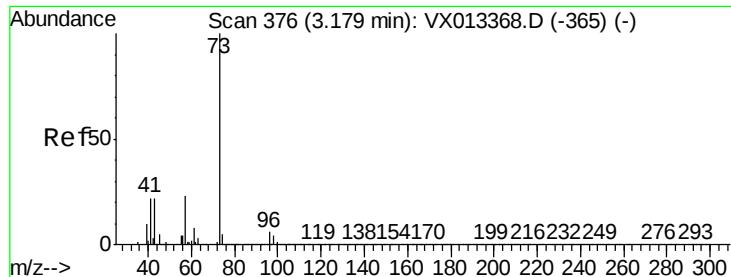


#23

tert-Butyl Alcohol
Concen: 3.632 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX013420.D
Acq: 14 Nov 2019 14:26

Tgt Ion	59	Resp	7840
Ion	Ratio	Lower	Upper
59	100		
52	2.8	0.1	0.1#



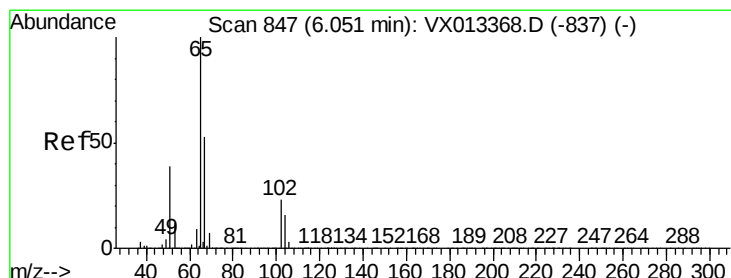
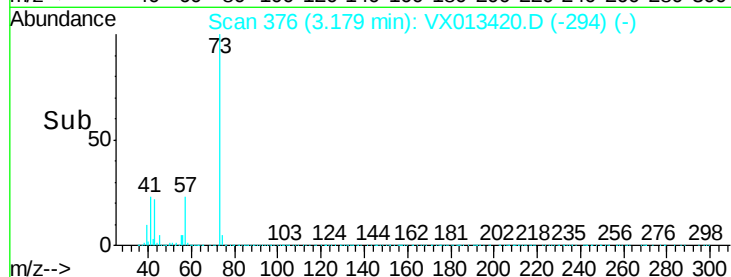
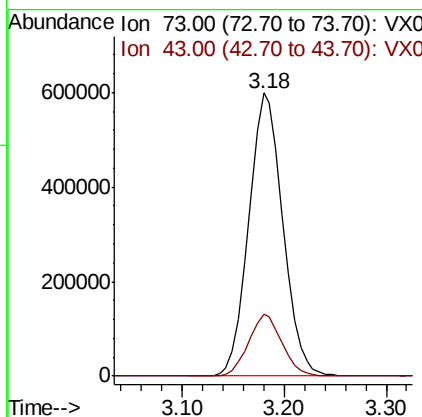
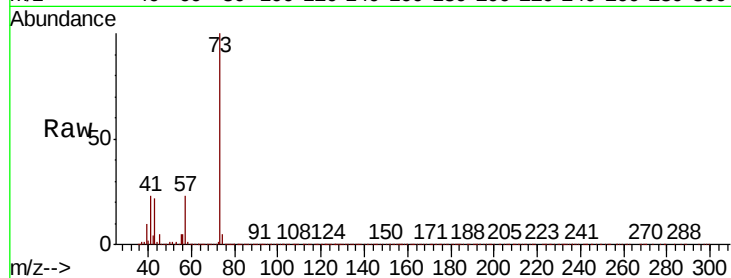


#24

Methyl tert-Butyl Ether
Concen: 60.493 ug/l
RT: 3.18 min Scan# 376
Delta R.T. 0.00 min
Lab File: VX013420.D
Acq: 14 Nov 2019 14:26

Instrument :
MSVOA_X
ClientSampleId :

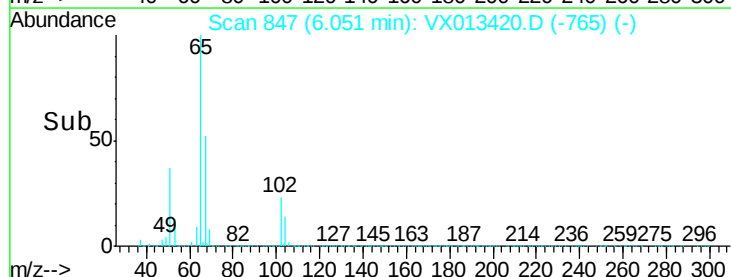
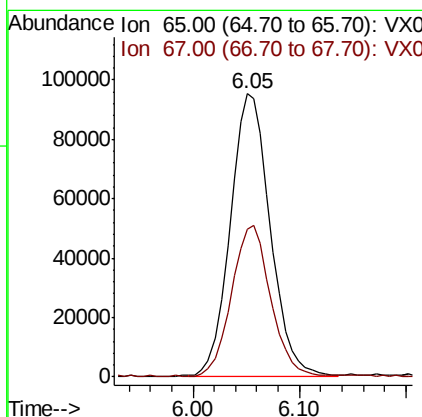
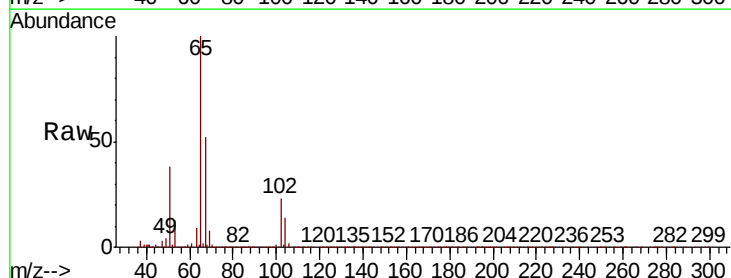
Tot Ion: 73 Resp: 1393581
Ion Ratio Lower Upper
73 100
43 21.2 17.0 25.6

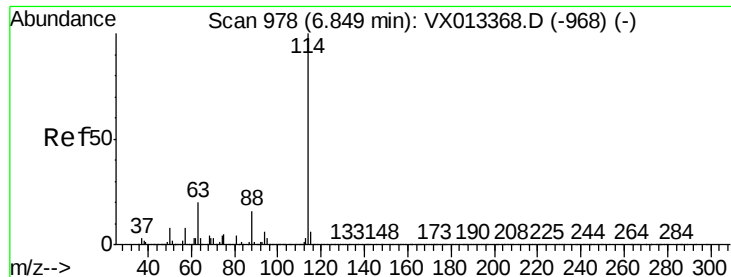


#27

1,2-Dichloroethane-d4
Concen: 29.985 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX013420.D
Acq: 14 Nov 2019 14:26

Tgt Ion: 65 Resp: 249540
Ion Ratio Lower Upper
65 100
67 52.5 41.0 61.6

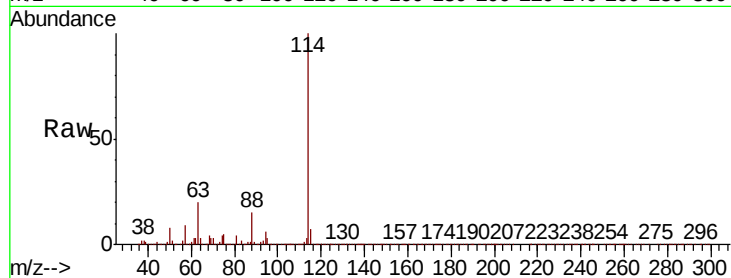




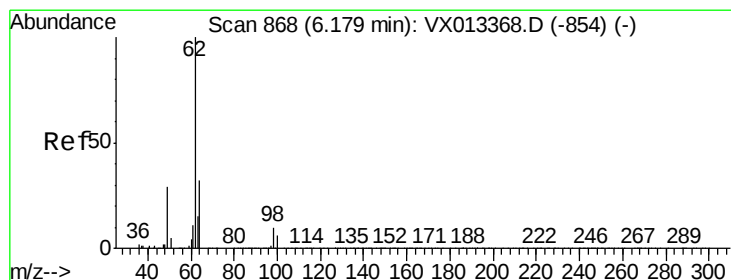
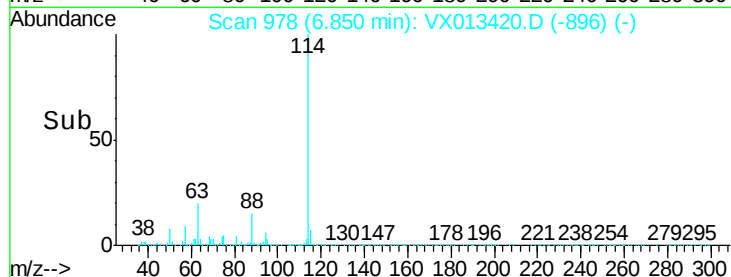
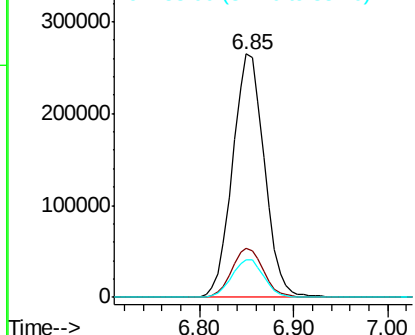
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX013420.D
Acq: 14 Nov 2019 14:26

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.0	16.1	24.1
88	15.7	12.3	18.5

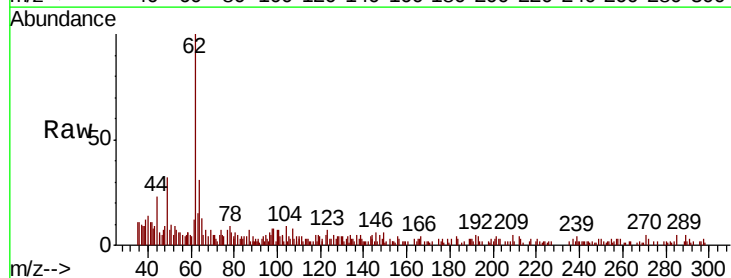


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 88.00 (87.70 to 88.70): VX0

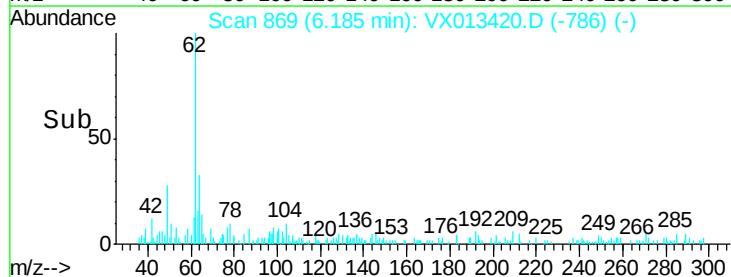
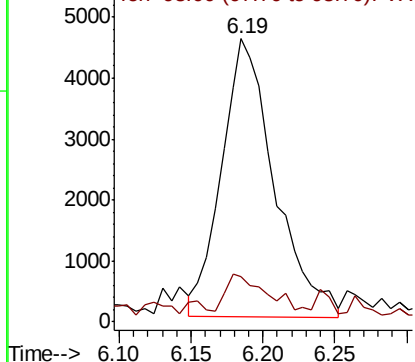


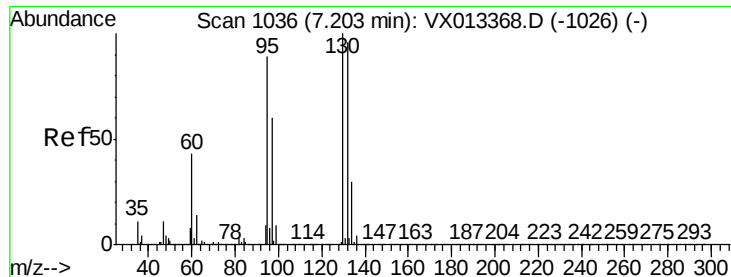
#36
1,2-Dichloroethane
Concen: 1.160 ug/l
RT: 6.19 min Scan# 869
Delta R.T. 0.01 min
Lab File: VX013420.D
Acq: 14 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.4	8.2	12.2



Abundance Ion 62.00 (61.70 to 62.70): VX0
Ion 98.00 (97.70 to 98.70): VX0





#37

Trichloroethene

Concen: 1076.157 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013420.D

Acq: 14 Nov 2019 14:26

Instrument :

MSVOA_X

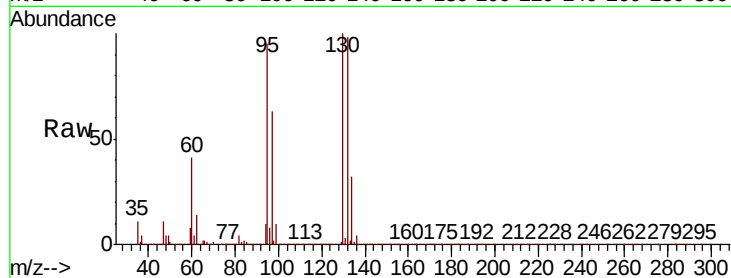
ClientSampled :

Tot Ion:130 Resp: 8329344

Ion Ratio Lower Upper

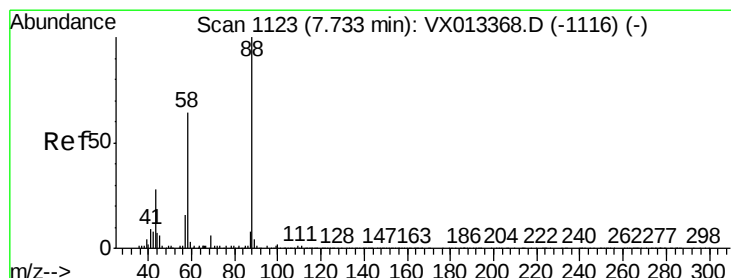
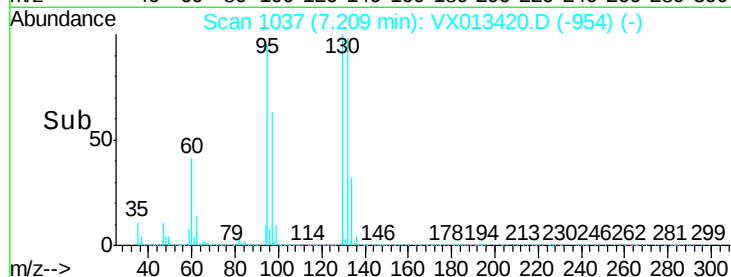
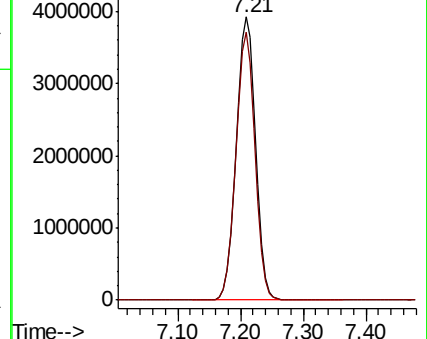
130 100

95 94.6 71.3 106.9



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VX0



#45

1,4-Dioxane

Concen: 1.985 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013420.D

Acq: 14 Nov 2019 14:26

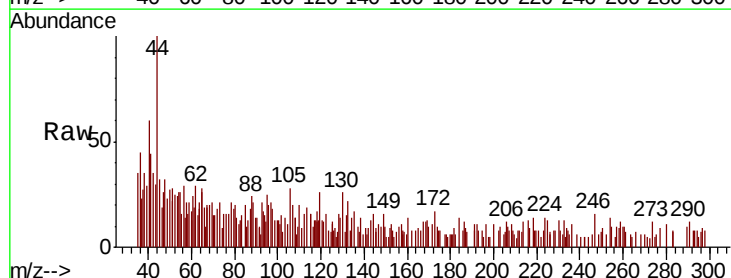
Tgt Ion: 88 Resp: 404

Ion Ratio Lower Upper

88 100

43 94.8 26.1 39.1#

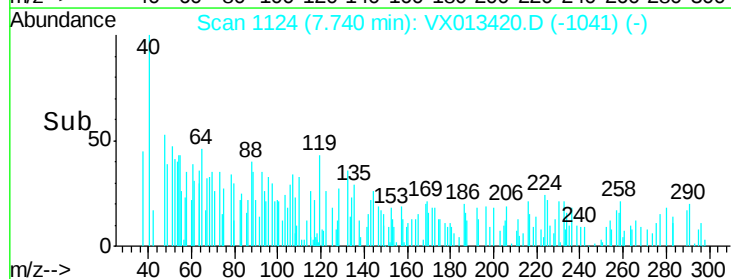
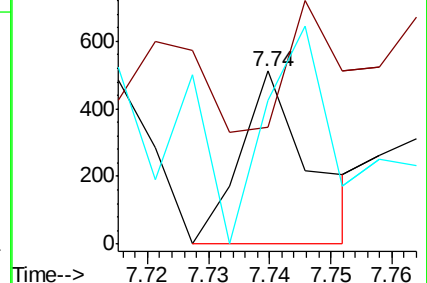
58 112.6 55.8 83.8#

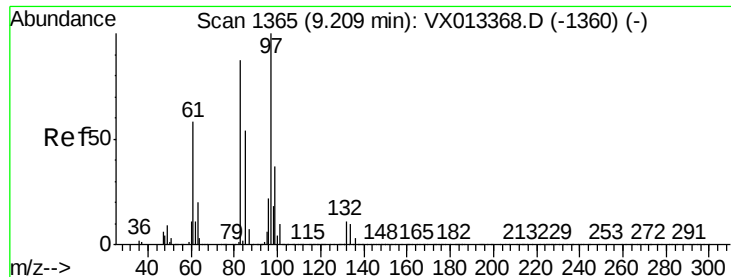


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

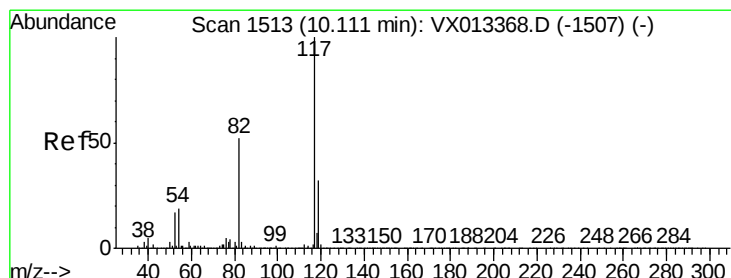
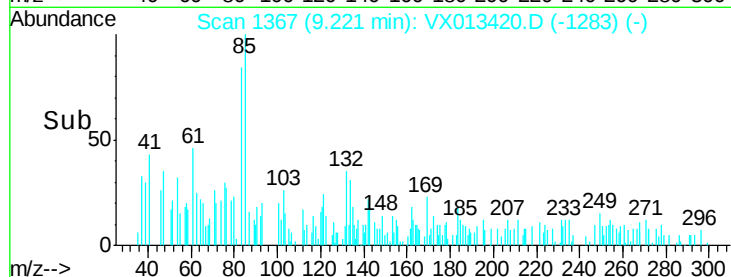
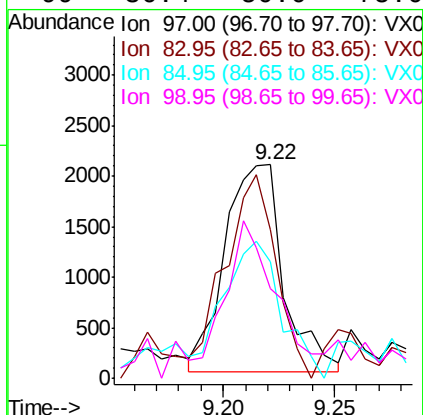
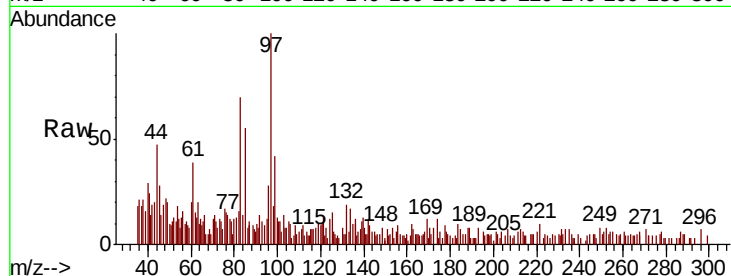




#50
1,1,2-Trichloroethane
Concen: 0.512 ug/l
RT: 9.22 min Scan# 1367
Delta R.T. 0.01 min
Lab File: VX013420.D
Acq: 14 Nov 2019 14:26

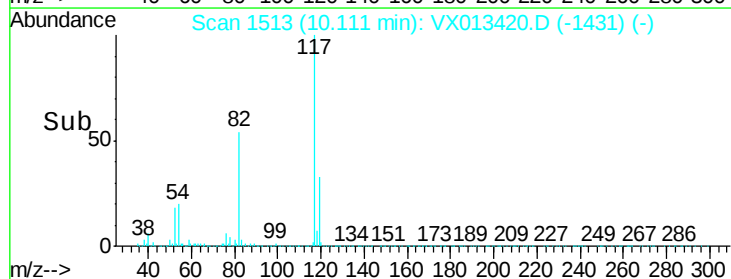
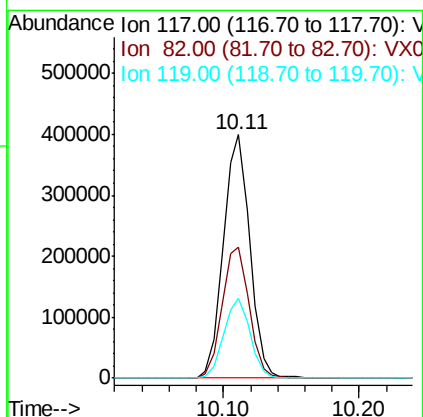
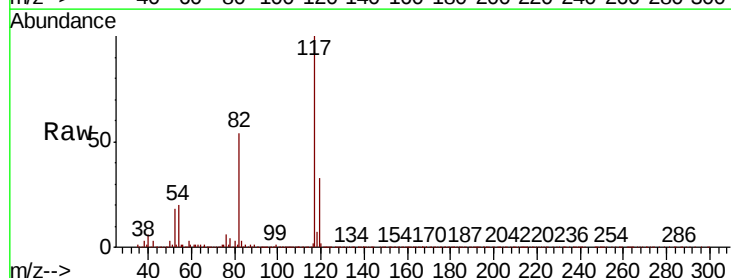
Instrument :
MSVOA_X
ClientSampleId :

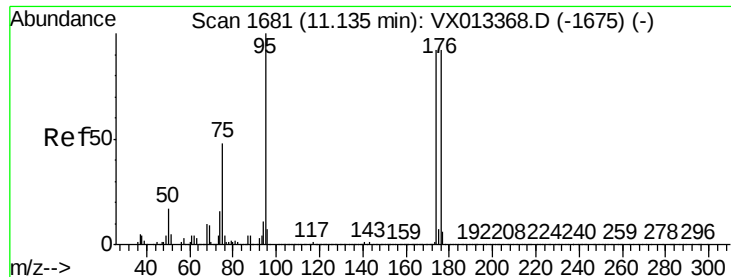
Tot Ion: 97 Resp: 3763
Ion Ratio Lower Upper
97 100
83 64.8 69.6 104.4#
85 48.2 45.5 68.3
99 36.4 50.0 75.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013420.D
Acq: 14 Nov 2019 14:26

Tgt Ion: 117 Resp: 538177
Ion Ratio Lower Upper
117 100
82 55.2 43.7 65.5
119 32.5 25.5 38.3

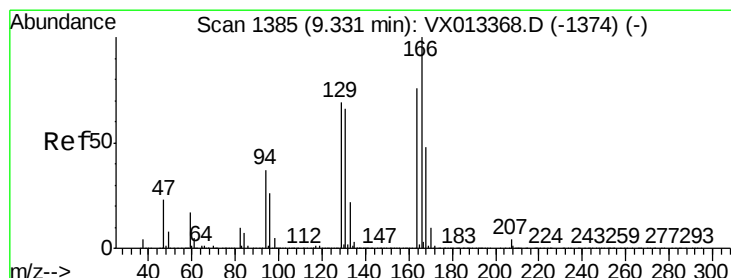
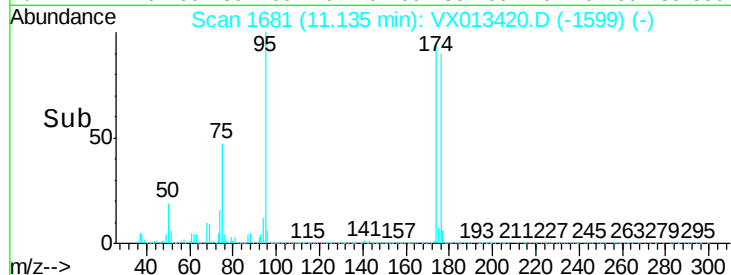
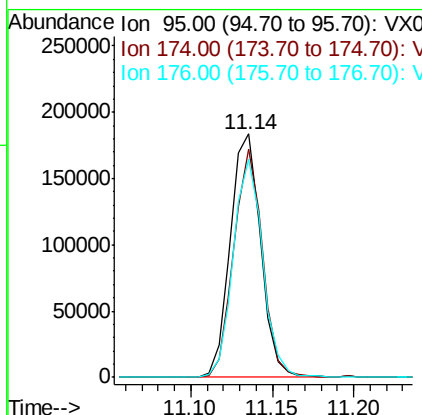
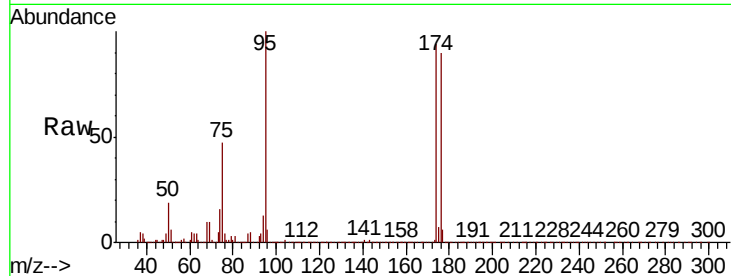




#60
4-Bromofluorobenzene
Concen: 27.465 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013420.D
Acq: 14 Nov 2019 14:26

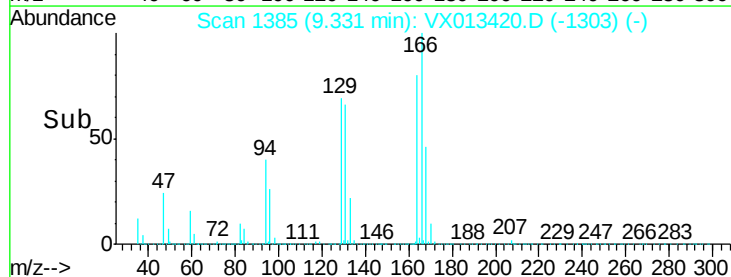
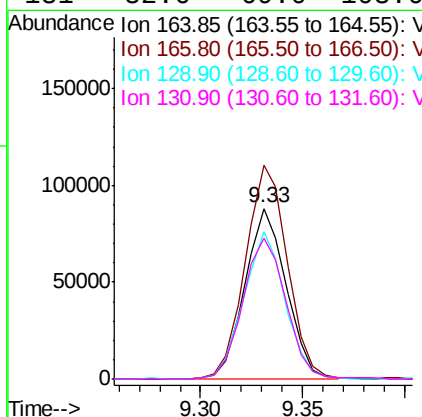
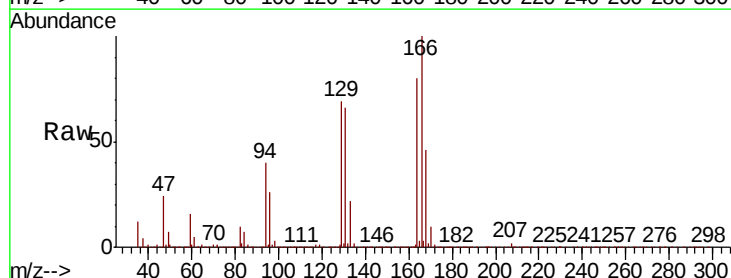
Instrument :
MSVOA_X
ClientSampleId :

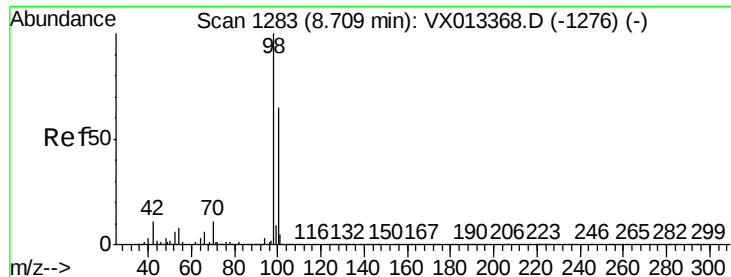
Tot Ion: 95 Resp: 237572
Ion Ratio Lower Upper
95 100
174 88.9 70.2 105.2
176 87.2 68.3 102.5



#61
Tetrachloroethene
Concen: 18.663 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013420.D
Acq: 14 Nov 2019 14:26

Tgt Ion: 164 Resp: 123851
Ion Ratio Lower Upper
164 100
166 124.9 104.9 157.3
129 86.1 72.3 108.5
131 82.6 69.0 103.6





#63

Toluene-d8

Concen: 30.642 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013420.D

Acq: 14 Nov 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 98 Resp: 745700

Ion Ratio Lower Upper

98 100

100 66.0 52.5 78.7

