

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111419\
 Data File : VX013423.D
 Acq On : 14 Nov 2019 15:36
 Operator : JC/SP
 Sample : K5804-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 15 00:57:17 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	107705	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	607438	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	524678	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	240434	30.23	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.77%
60) 4-Bromofluorobenzene	11.14	95	236812	28.08	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.60%
63) Toluene-d8	8.71	98	715809	30.17	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.57%

Target Compounds

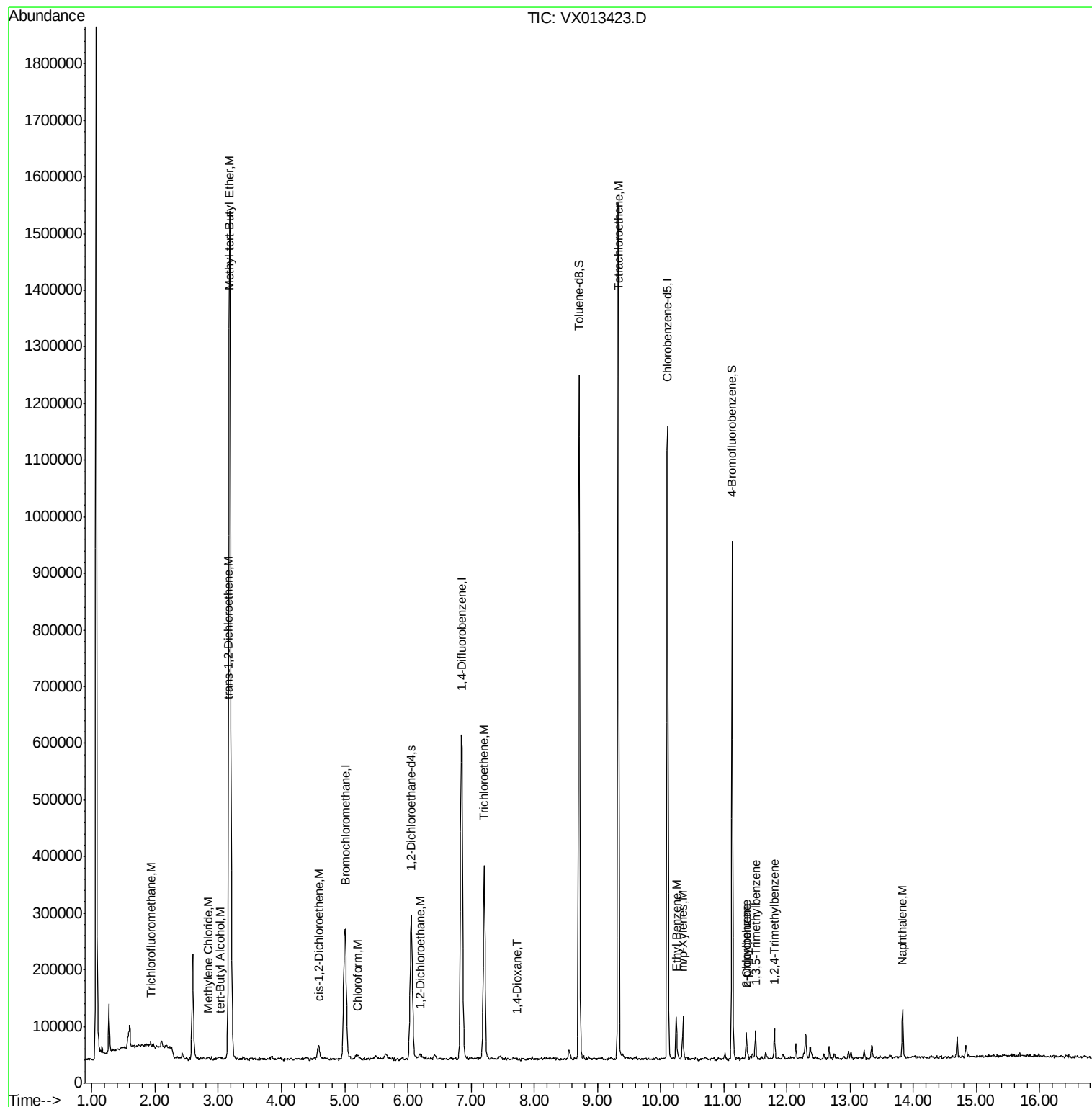
					Ovalue	
7) Trichlorofluoromethane	1.92	101	3582	0.333	ug/l	# 74
18) Methylene Chloride	2.84	84	2707	0.359	ug/l	# 68
19) trans-1,2-Dichloroethene	3.15	96	2087	0.294	ug/l	# 62
22) cis-1,2-Dichloroethene	4.58	96	15518	1.915	ug/l	86
23) tert-Butyl Alcohol	3.03	59	4807	2.330	ug/l	# 98
24) Methyl tert-Butyl Ether	3.19	73	1699144	77.180	ug/l	100
25) Chloroform	5.20	83	6333	0.504	ug/l	90
36) 1,2-Dichloroethane	6.18	62	9349	0.949	ug/l	# 81
37) Trichloroethene	7.21	130	138964	18.432	ug/l	97
45) 1,4-Dioxane	7.72	88	301	1.519	ug/l	# 40
61) Tetrachloroethene	9.33	164	292150	45.155	ug/l	96
66) Ethyl Benzene	10.25	91	48245	1.503	ug/l	97
67) m/p-Xylenes	10.35	106	19149	1.546	ug/l	99
74) n-propylbenzene	11.35	91	26516	0.741	ug/l	97
75) 2-Chlorotoluene	11.35	91	26706	1.255	ug/l	42
76) 1,3,5-Trimethylbenzene	11.50	105	21278	0.804	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	25997	0.985	ug/l	98
91) Naphthalene	13.83	128	57481	1.803	ug/l	98

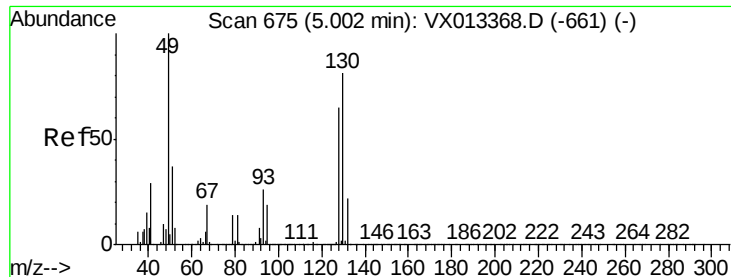
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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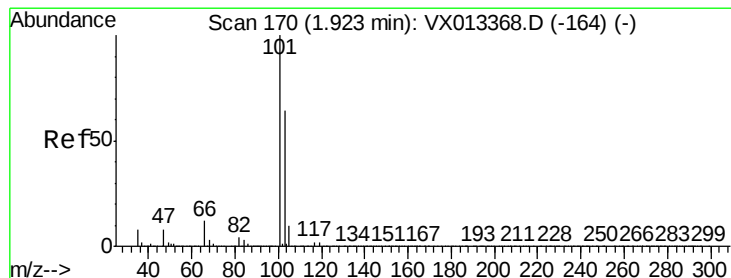
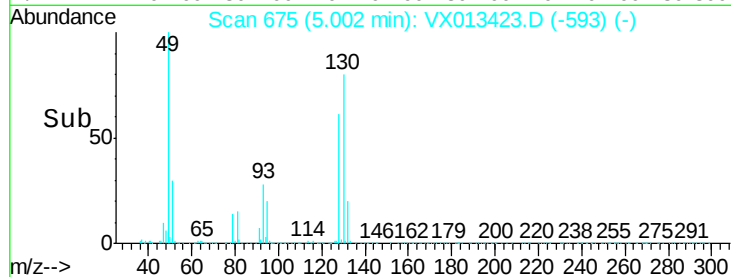
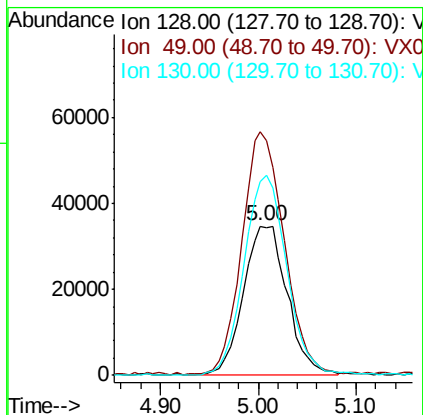
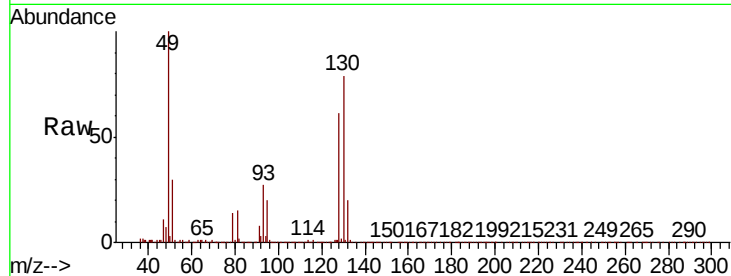


#1

Bromochloromethane
Concen: 30.000 ug/l
RT: 5.00 min Scan# 675
Delta R.T. 0.00 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

Instrument :
MSVOA_X
ClientSampleId :

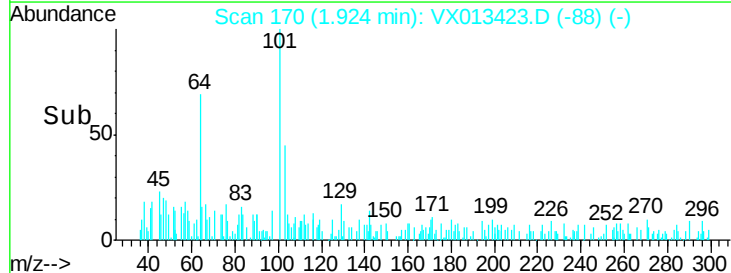
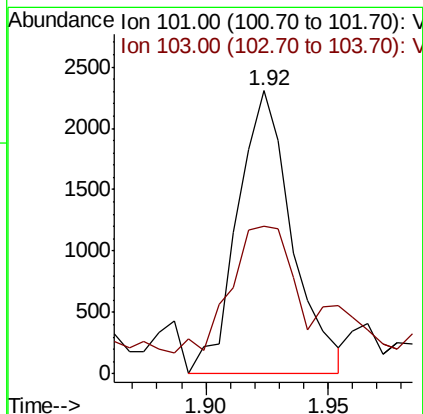
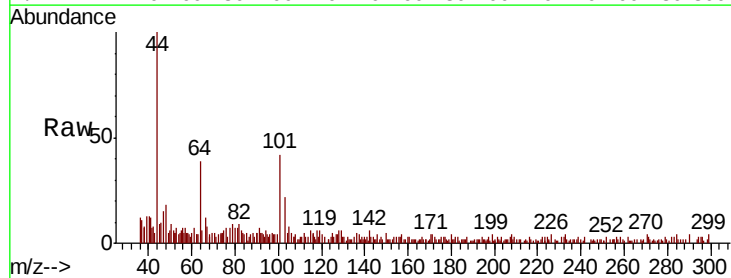
Tot Ion	Ratio	Lower	Upper
128	100		
49	155.6	0.0	388.3
130	131.4	0.0	318.5

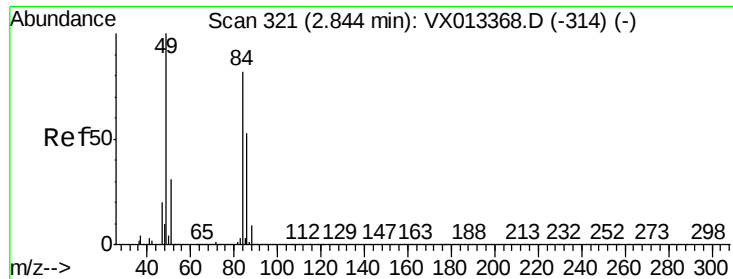


#7

Trichlorofluoromethane
Concen: 0.333 ug/l
RT: 1.92 min Scan# 170
Delta R.T. 0.00 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

Tgt Ion	Ratio	Lower	Upper
101	100		
103	43.8	51.2	76.8#

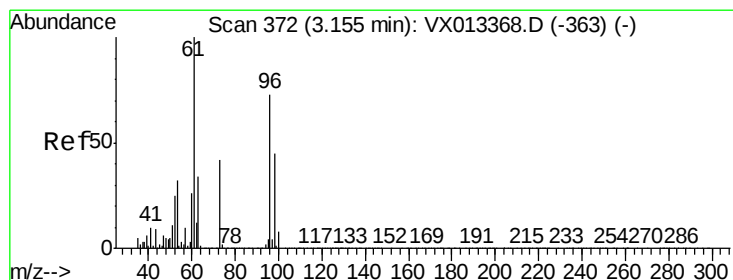
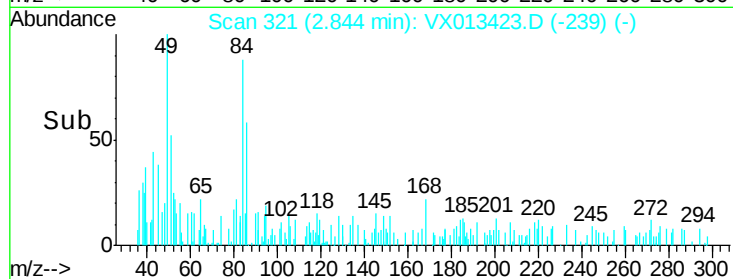
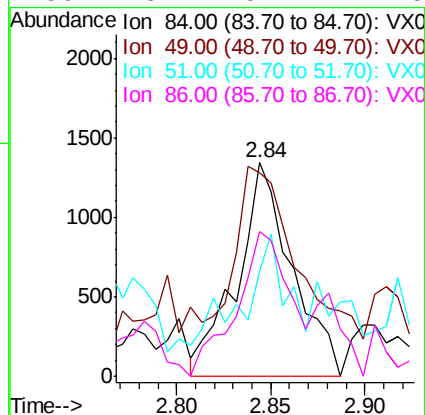
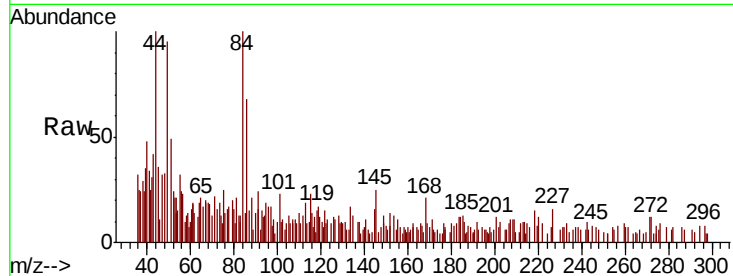




#18
Methvlene Chloride
Concen: 0.359 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

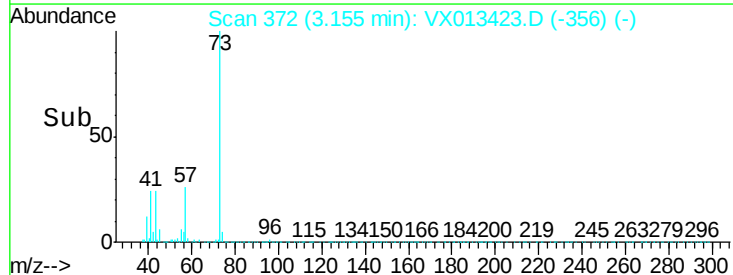
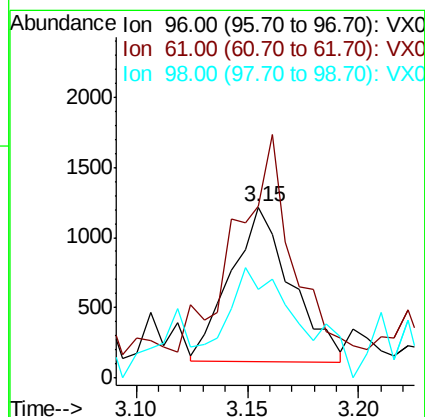
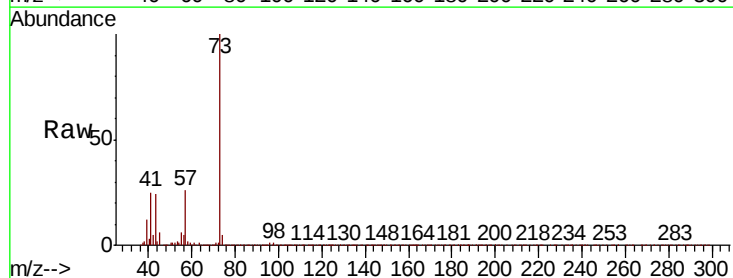
Instrument :
MSVOA_X
ClientSampleId :

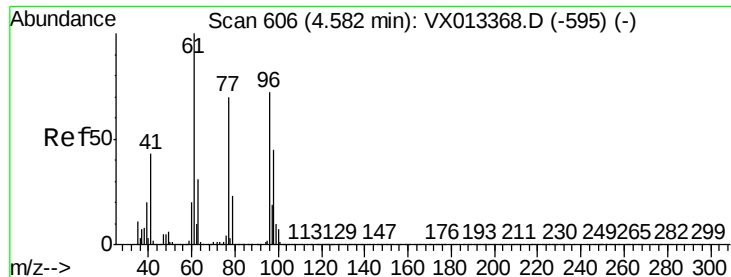
Tot Ion: 84 Resp: 2707
Ion Ratio Lower Upper
84 100
49 64.7 96.8 145.2#
51 34.7 30.0 45.0
86 75.7 51.7 77.5



#19
trans-1,2-Dichloroethene
Concen: 0.294 ug/l
RT: 3.15 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

Tgt Ion: 96 Resp: 2087
Ion Ratio Lower Upper
96 100
61 87.9 109.9 164.9#
98 39.0 49.7 74.5#



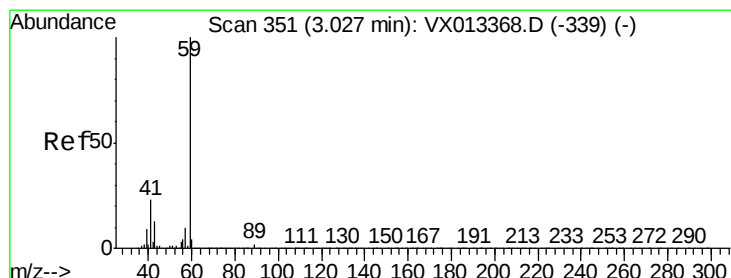
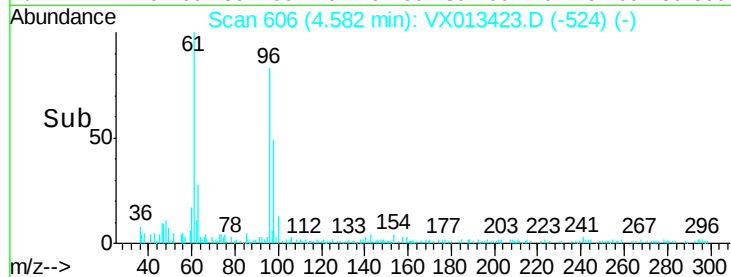
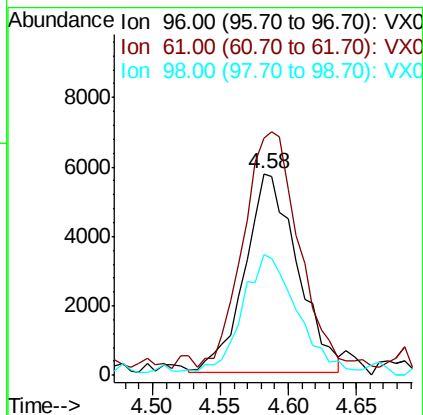
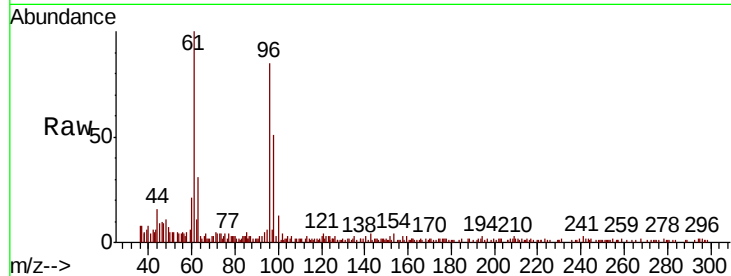


#22

cis-1,2-Dichloroethene
 Concen: 1.915 ug/l
 RT: 4.58 min Scan# 606
 Delta R.T. 0.00 min
 Lab File: VX013423.D
 Acq: 14 Nov 2019 15:36

Instrument :
 MSVOA_X
 ClientSampleId :

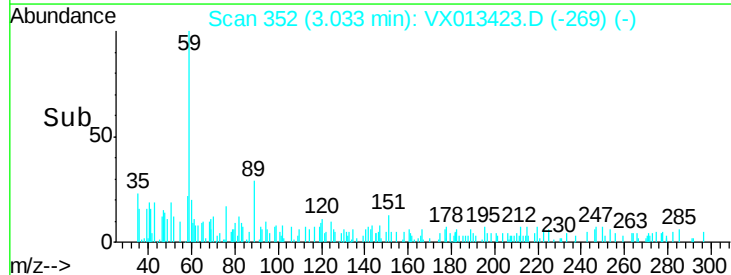
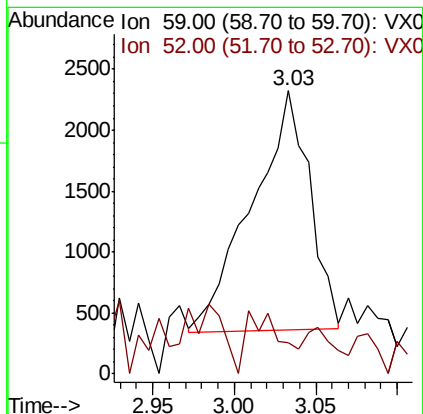
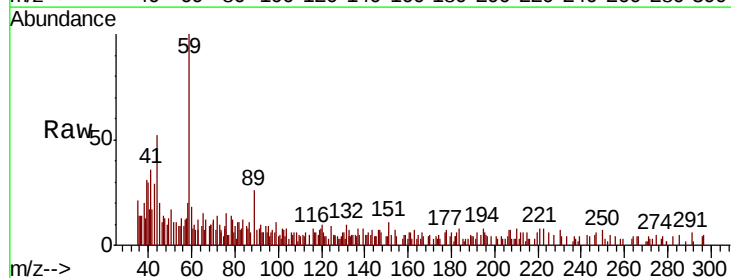
Tot Ion	96	Resp	15518
Ion Ratio	Lower	Upper	
96	100		
61	123.8	117.0	175.6
98	60.6	51.1	76.7

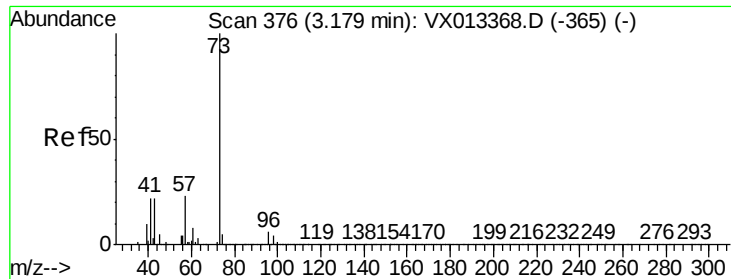


#23

tert-Butyl Alcohol
 Concen: 2.330 ug/l
 RT: 3.03 min Scan# 352
 Delta R.T. 0.01 min
 Lab File: VX013423.D
 Acq: 14 Nov 2019 15:36

Tgt Ion	59	Resp	4807
Ion Ratio	Lower	Upper	
59	100		
52	5.9	0.1	0.1#

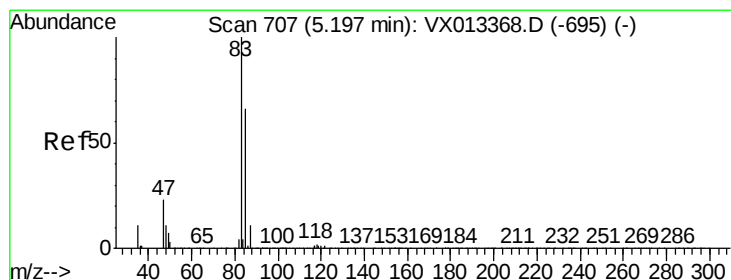
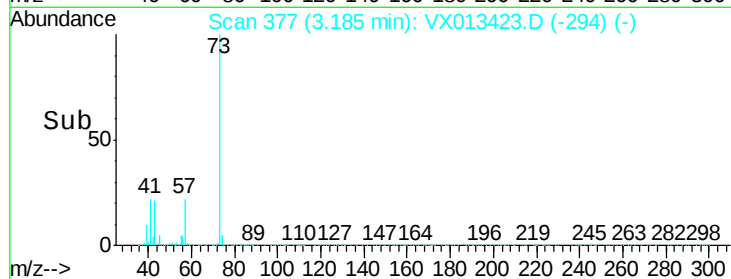
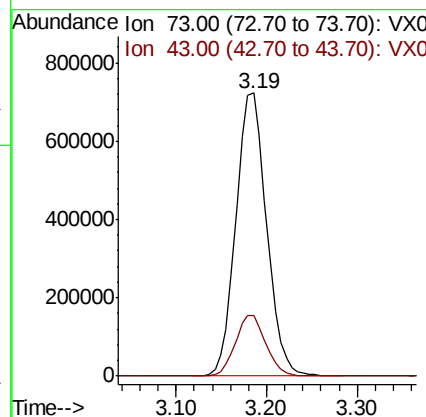
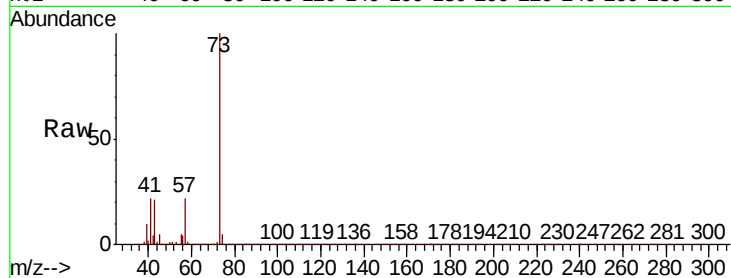




#24
Methvl tert-Butvl Ether
Concen: 77.180 ug/l
RT: 3.19 min Scan# 377
Delta R.T. 0.01 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

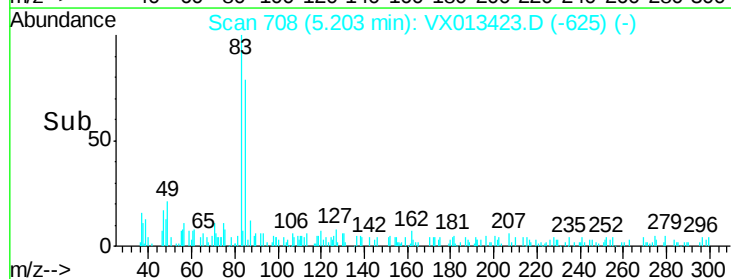
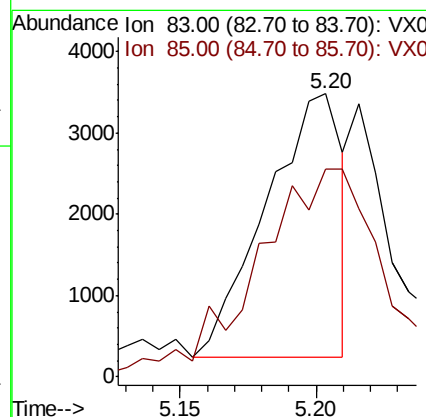
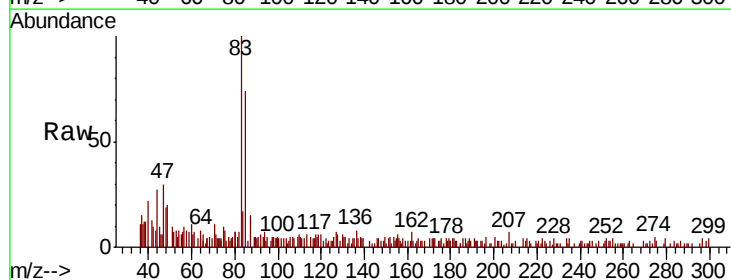
Instrument :
MSVOA_X
ClientSampleId :

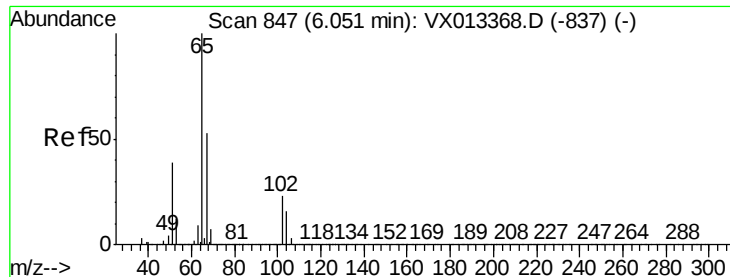
Tot Ion: 73 Resp: 1699144
Ion Ratio Lower Upper
73 100
43 21.4 17.0 25.6



#25
Chloroform
Concen: 0.504 ug/l
RT: 5.20 min Scan# 708
Delta R.T. 0.01 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

Tgt Ion: 83 Resp: 6333
Ion Ratio Lower Upper
83 100
85 73.2 52.4 78.6





#27

1,2-Dichloroethane-d4

Concen: 30.231 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

Instrument :

MSVOA_X

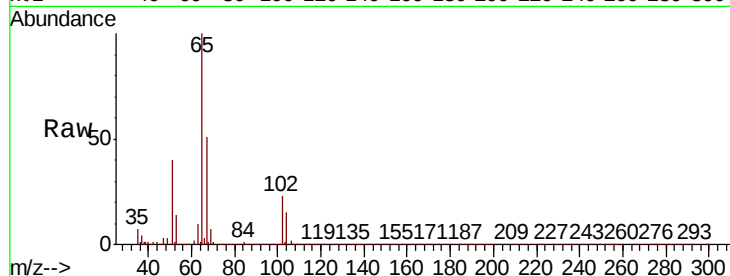
ClientSampleId :

Tot Ion: 65 Resp: 240434

Ion Ratio Lower Upper

65 100

67 52.5 41.0 61.6



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

6.05

80000

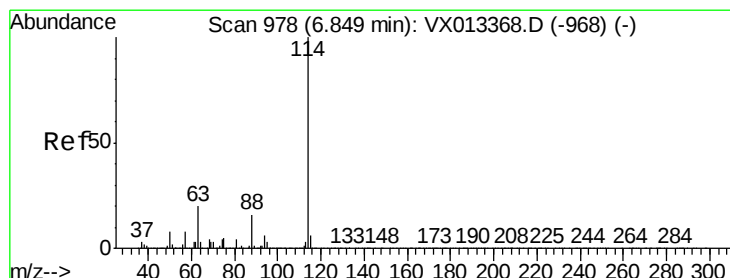
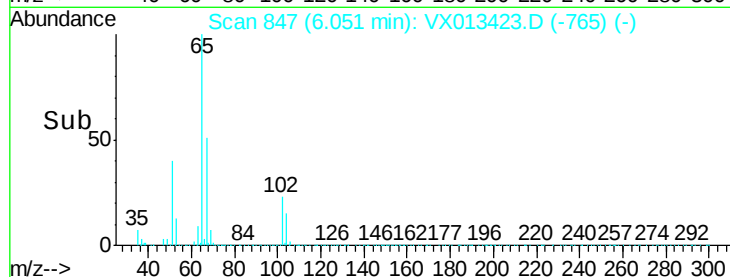
60000

40000

20000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

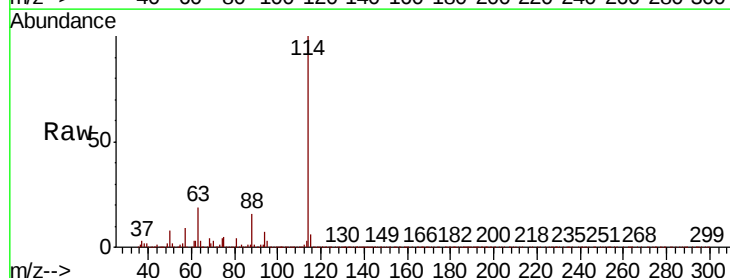
Tgt Ion: 114 Resp: 607438

Ion Ratio Lower Upper

114 100

63 20.0 16.1 24.1

88 15.8 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

6.85

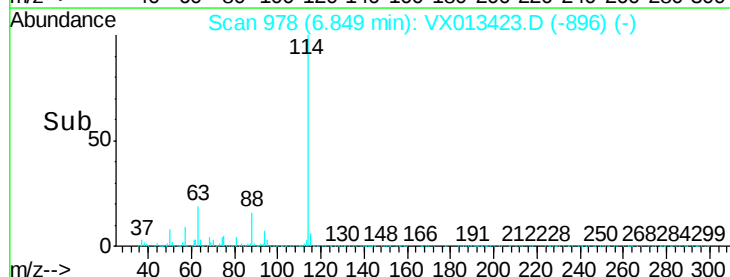
300000

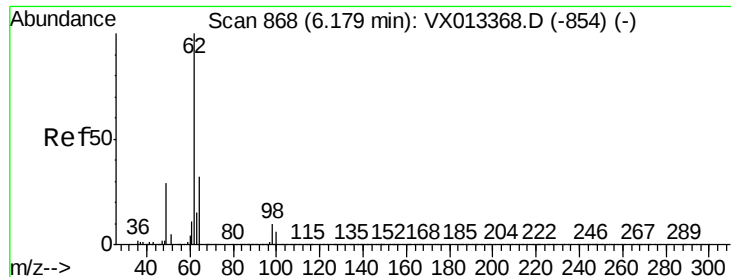
200000

100000

0

Time-->





#36

1,2-Dichloroethane

Concen: 0.949 ug/l

RT: 6.18 min Scan# 869

Delta R.T. 0.01 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

Instrument :

MSVOA_X

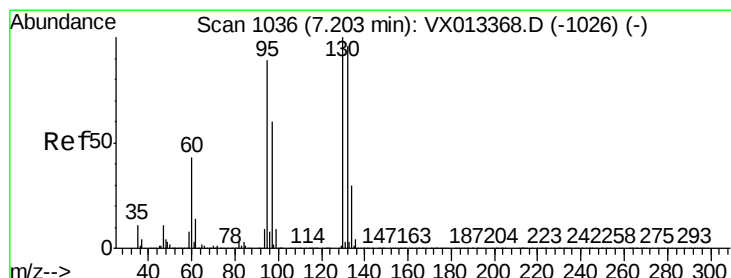
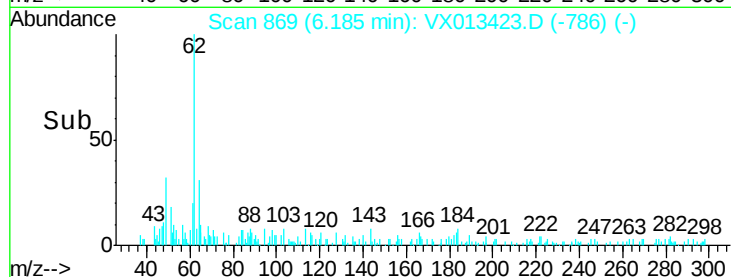
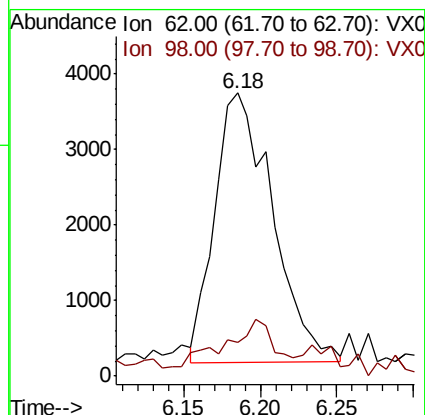
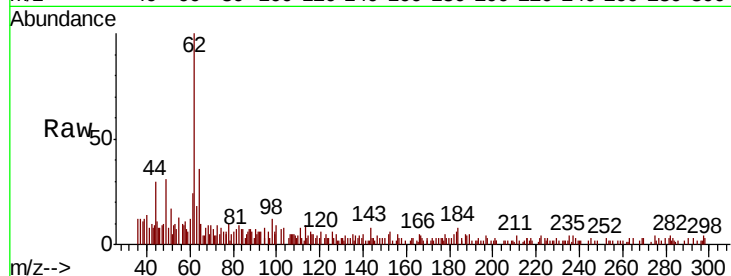
ClientSampleId :

Tot Ion: 62 Resp: 9349

Ion Ratio Lower Upper

62 100

98 3.0 8.2 12.2#



#37

Trichloroethene

Concen: 18.432 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013423.D

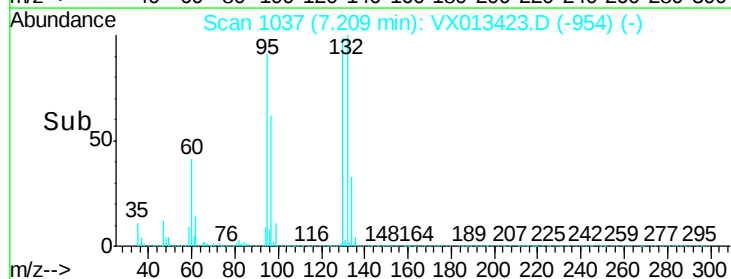
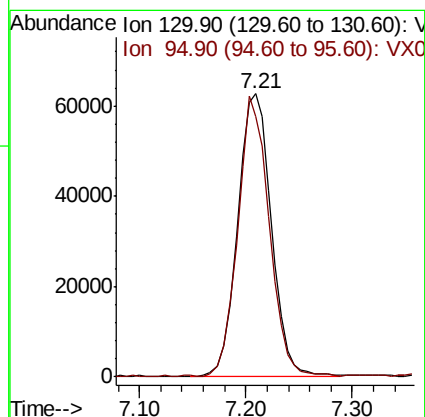
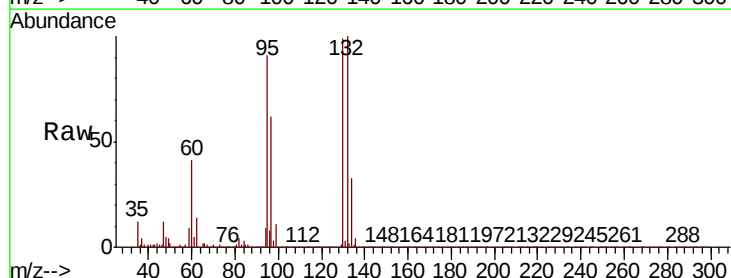
Acq: 14 Nov 2019 15:36

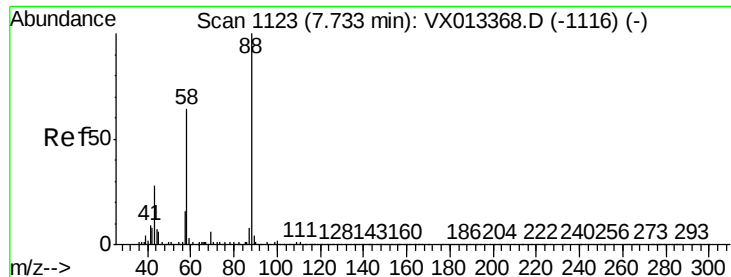
Tgt Ion: 130 Resp: 138964

Ion Ratio Lower Upper

130 100

95 91.7 71.3 106.9





#45

1,4-Dioxane

Concen: 1.519 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

Instrument :
MSVOA_X
ClientSampled :

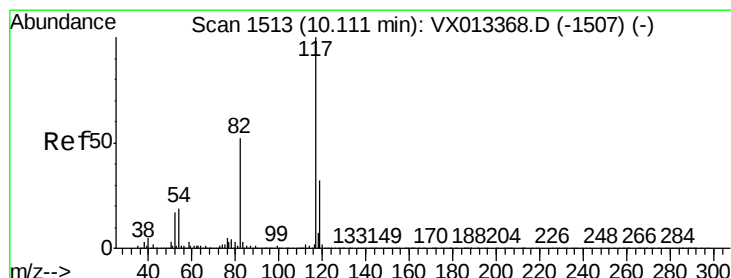
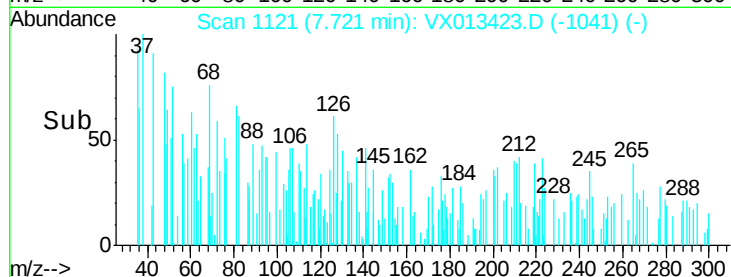
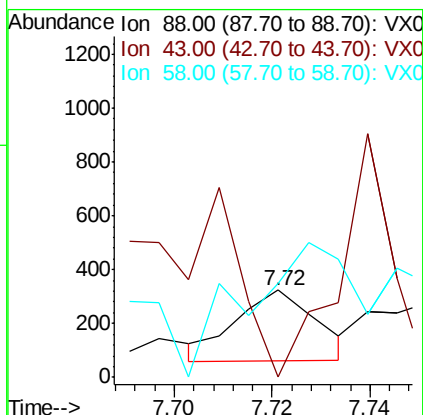
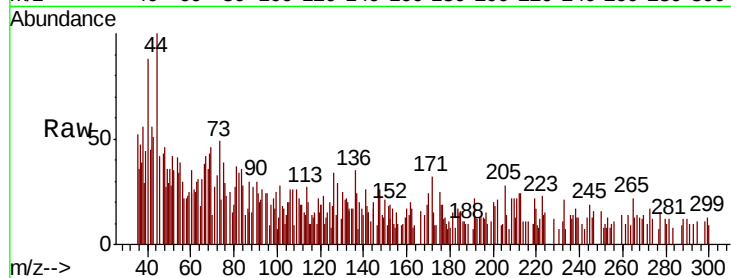
Tot Ion: 88 Resp: 301

Ion Ratio Lower Upper

88 100

43 0.0 26.1 39.1#

58 120.3 55.8 83.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

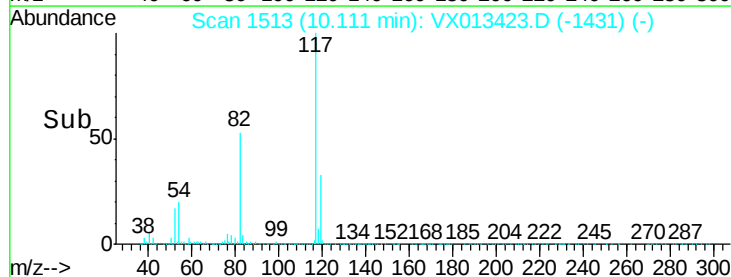
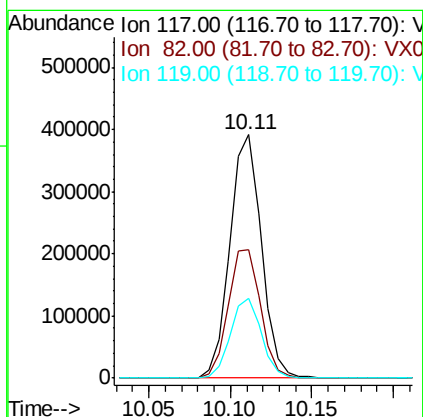
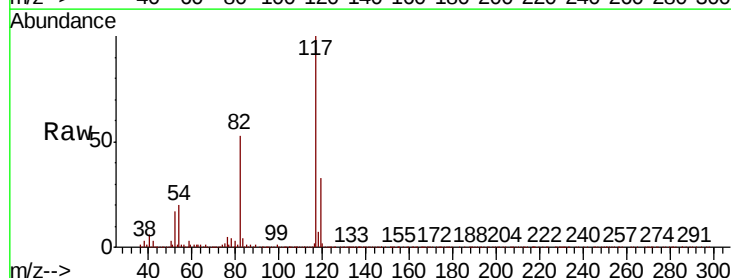
Tgt Ion: 117 Resp: 524678

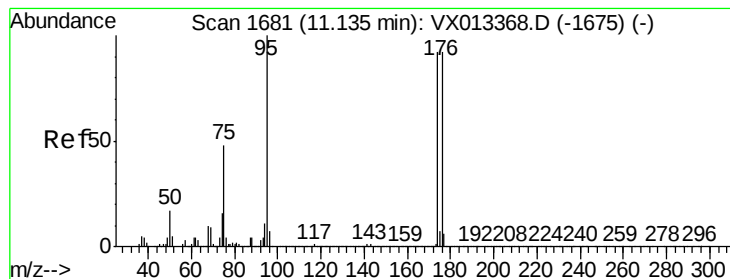
Ion Ratio Lower Upper

117 100

82 54.4 43.7 65.5

119 32.4 25.5 38.3





#60

4-Bromofluorobenzene

Concen: 28.081 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

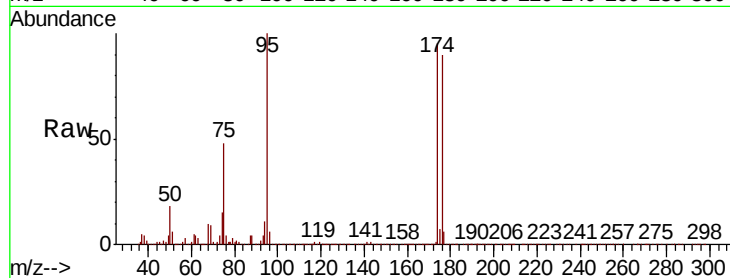
Tot Ion: 95 Resp: 236812

Ion Ratio Lower Upper

95 100

174 89.8 70.2 105.2

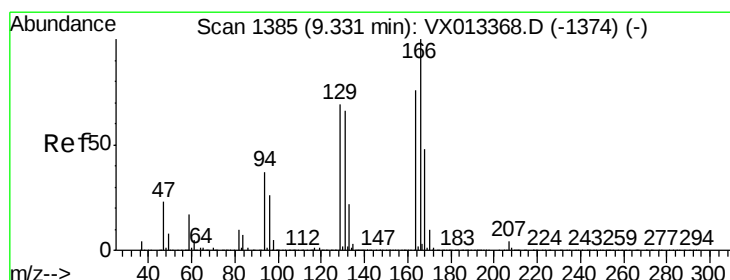
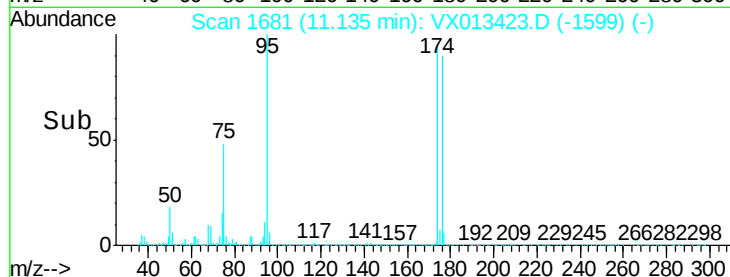
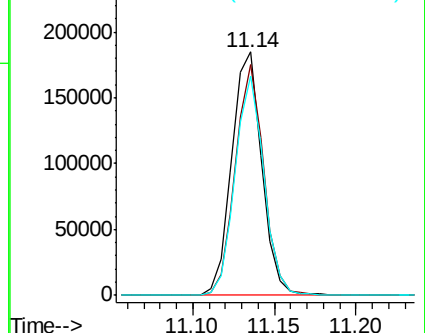
176 86.6 68.3 102.5



Abundance Ion 95.00 (94.70 to 95.70): VX013368.D (-1675) (-)

Ion 174.00 (173.70 to 174.70): VX013368.D (-1675) (-)

Ion 176.00 (175.70 to 176.70): VX013368.D (-1675) (-)



#61

Tetrachloroethene

Concen: 45.155 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

Tgt Ion: 164 Resp: 292150

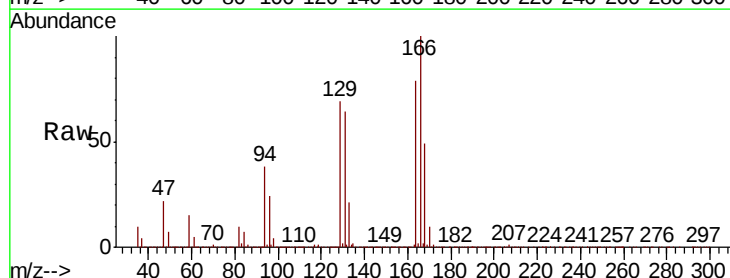
Ion Ratio Lower Upper

164 100

166 126.5 104.9 157.3

129 87.9 72.3 108.5

131 81.4 69.0 103.6

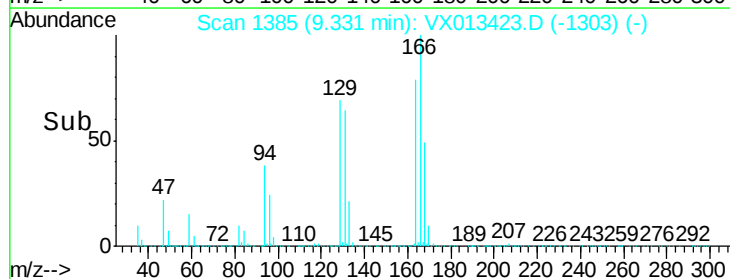
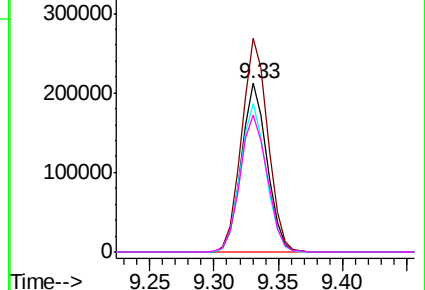


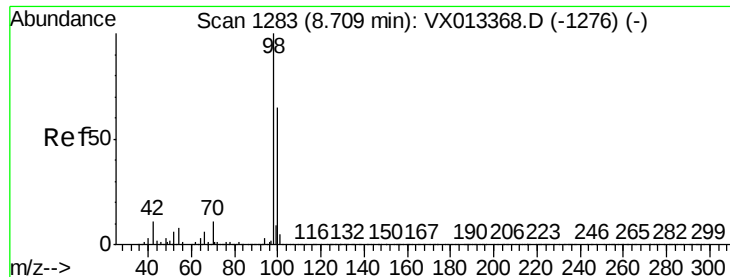
Abundance Ion 163.85 (163.55 to 164.55): VX013368.D (-1374) (-)

Ion 165.80 (165.50 to 166.50): VX013368.D (-1374) (-)

Ion 128.90 (128.60 to 129.60): VX013368.D (-1374) (-)

Ion 130.90 (130.60 to 131.60): VX013368.D (-1374) (-)

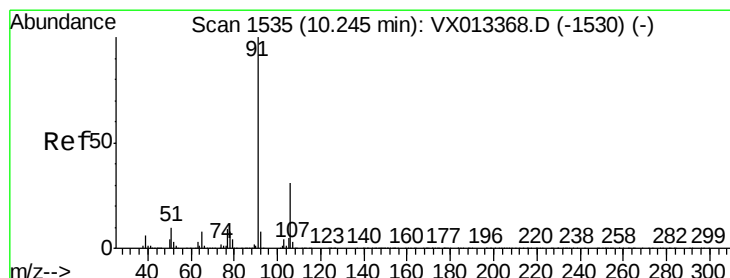
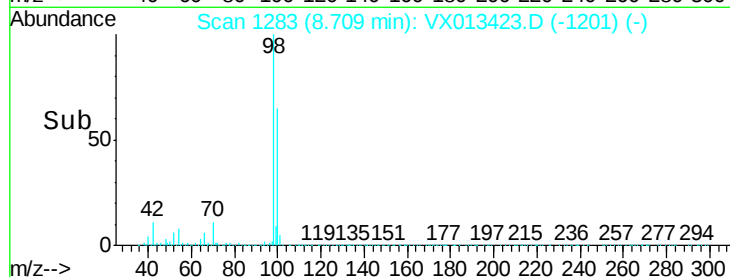
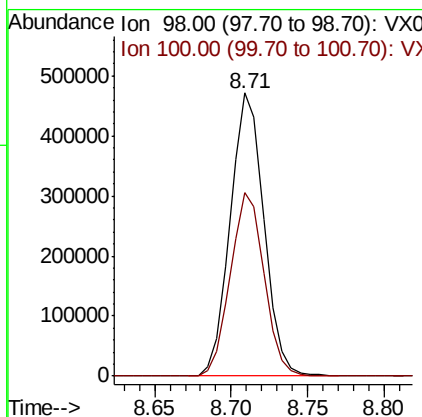
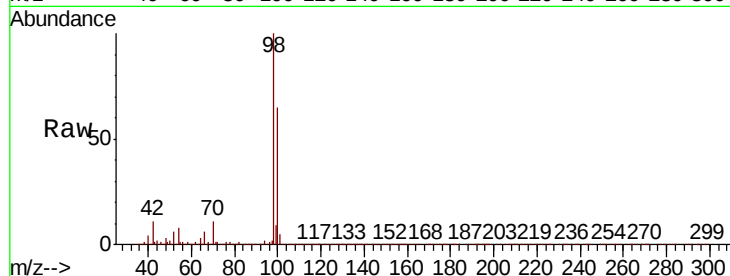




#63
Toluene-d8
Concen: 30.170 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

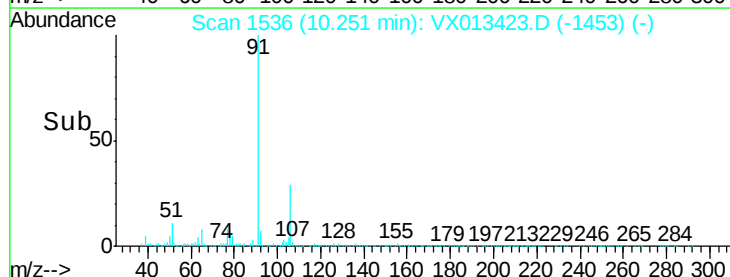
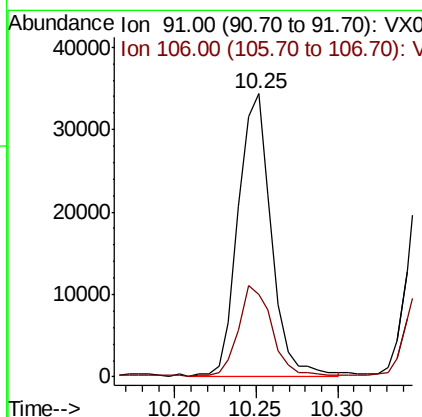
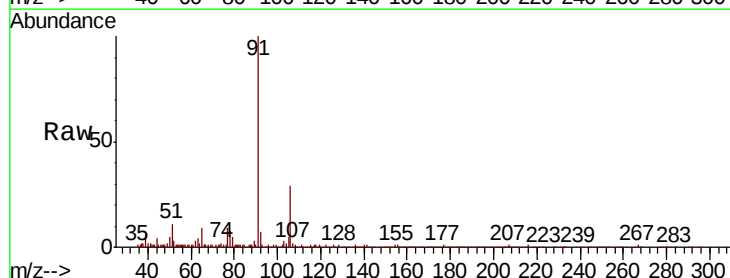
Instrument :
MSVOA_X
ClientSampled :

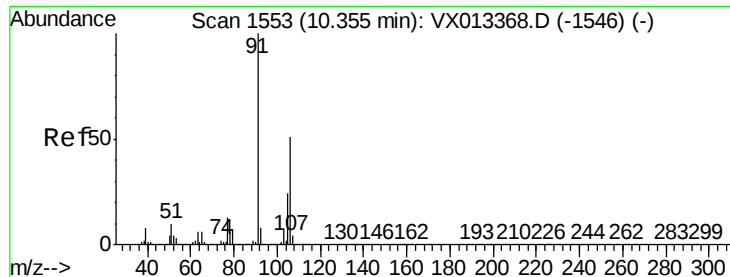
Tot Ion: 98 Resp: 715809
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7



#66
Ethyl Benzene
Concen: 1.503 ug/l
RT: 10.25 min Scan# 1536
Delta R.T. 0.01 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

Tgt Ion: 91 Resp: 48245
Ion Ratio Lower Upper
91 100
106 29.4 25.0 37.4

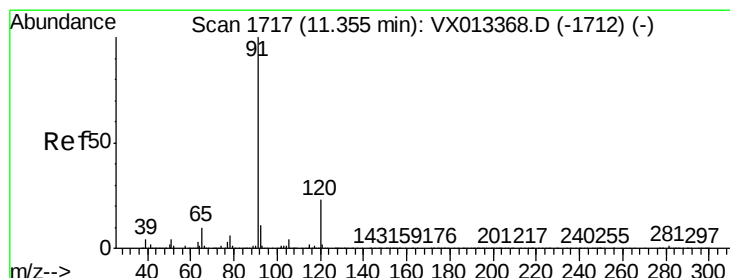
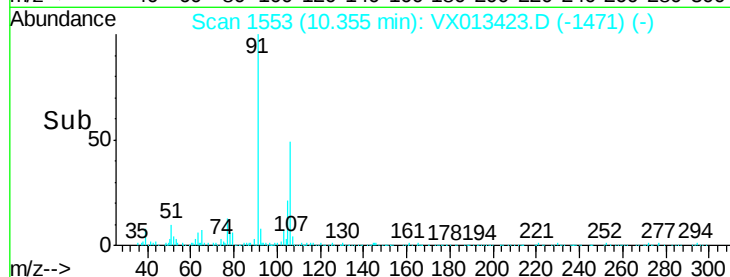
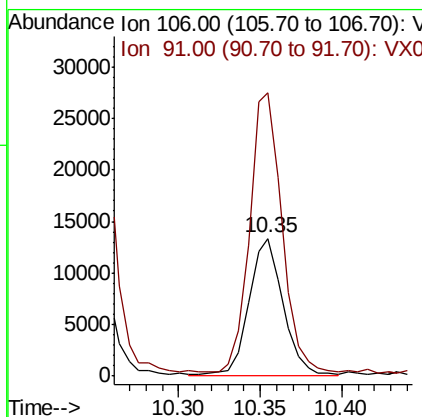
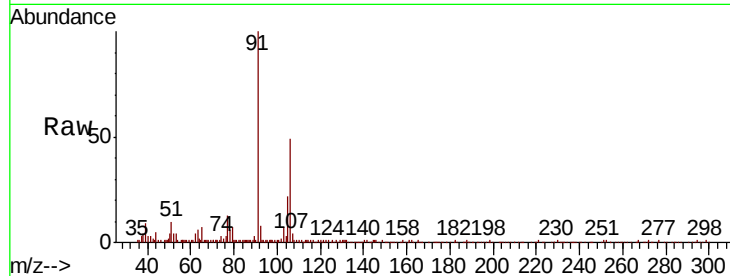




#67
m/p-Xvlenes
Concen: 1.546 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

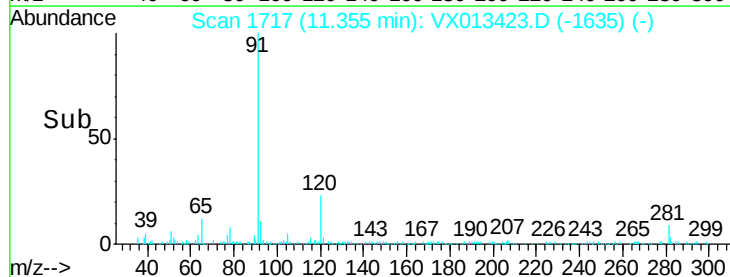
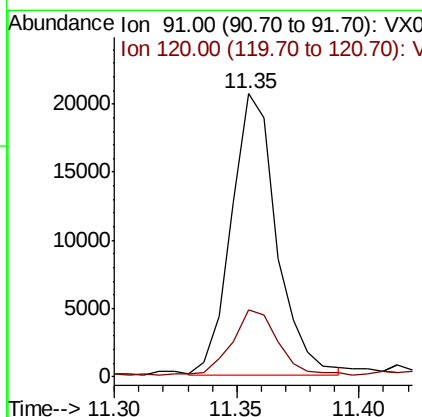
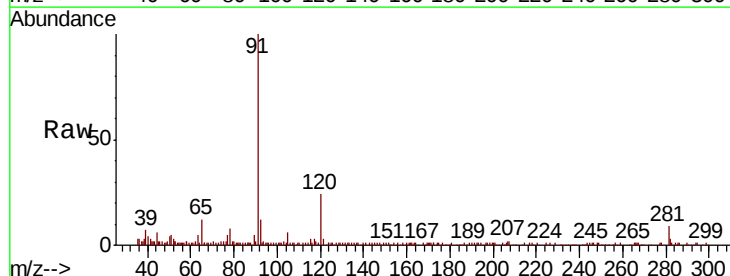
Instrument :
MSVOA_X
ClientSampled :

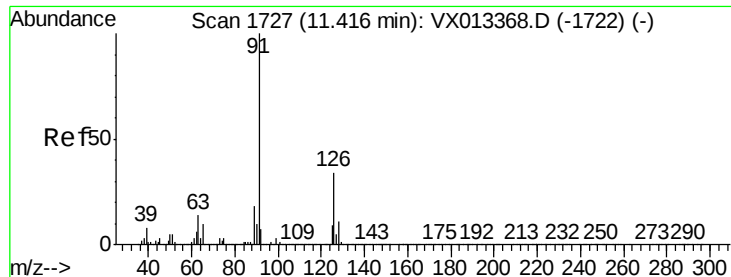
Tot Ion:106 Resp: 19149
Ion Ratio Lower Upper
106 100
91 196.0 158.4 237.6



#74
n-propylbenzene
Concen: 0.741 ug/l
RT: 11.35 min Scan# 1717
Delta R.T. 0.00 min
Lab File: VX013423.D
Acq: 14 Nov 2019 15:36

Tgt Ion: 91 Resp: 26516
Ion Ratio Lower Upper
91 100
120 21.6 0.0 46.2





#75

2-Chlorotoluene

Concen: 1.255 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.06 min

Lab File: VX013423.D

Acq: 14 Nov 2019 15:36

Instrument :

MSVOA_X

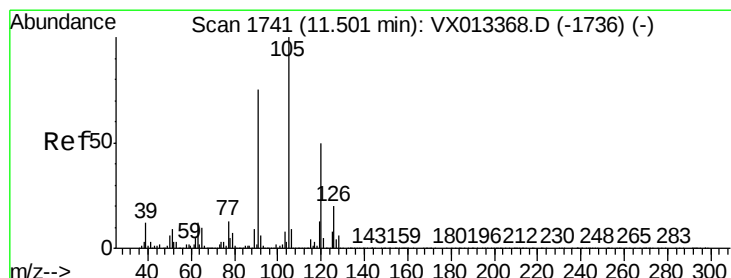
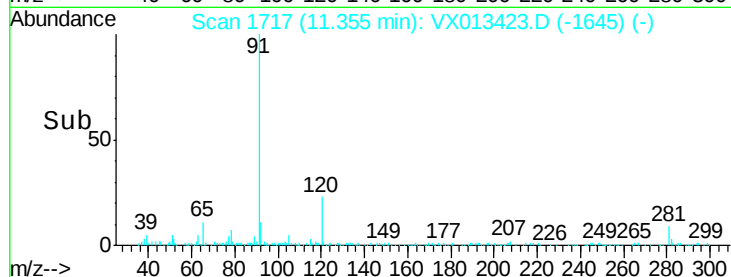
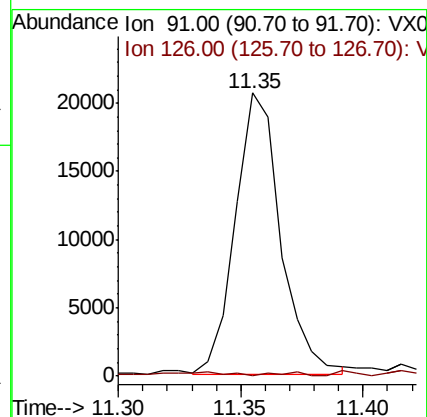
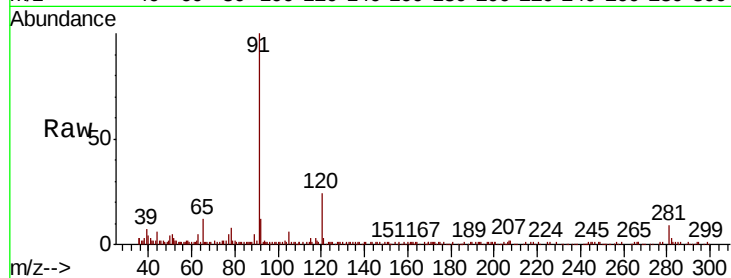
ClientSampleId :

Tot Ion: 91 Resp: 26706

Ion Ratio Lower Upper

91 100

126 1.1 0.0 69.0



#76

1,3,5-Trimethylbenzene

Concen: 0.804 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX013423.D

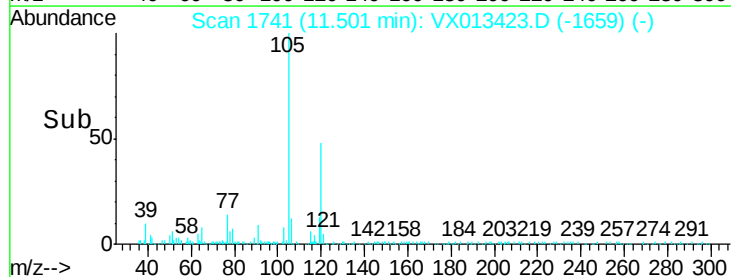
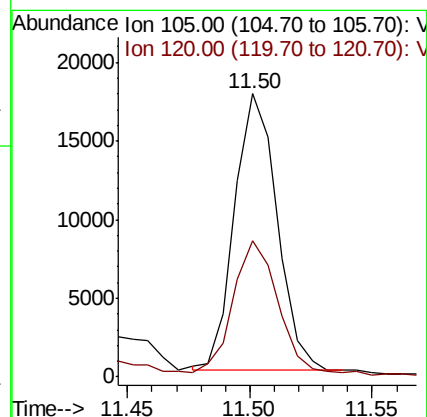
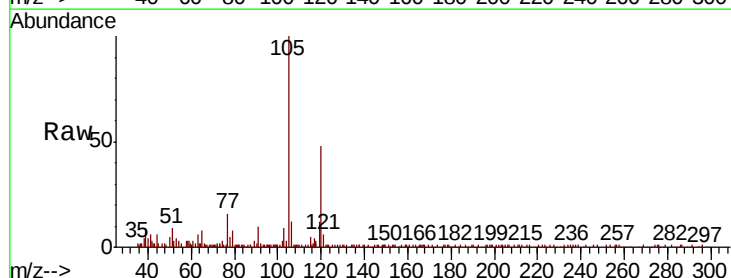
Acq: 14 Nov 2019 15:36

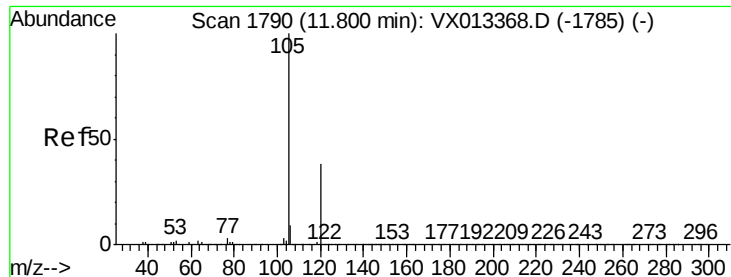
Tgt Ion: 105 Resp: 21278

Ion Ratio Lower Upper

105 100

120 52.7 0.0 100.0

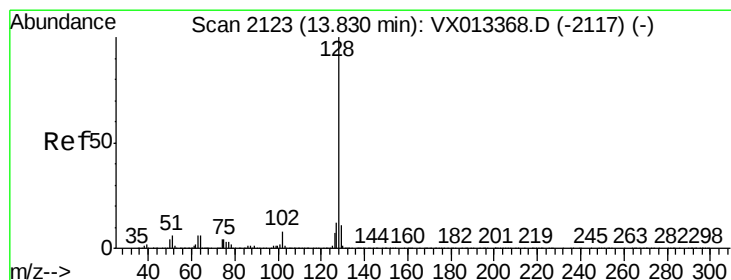
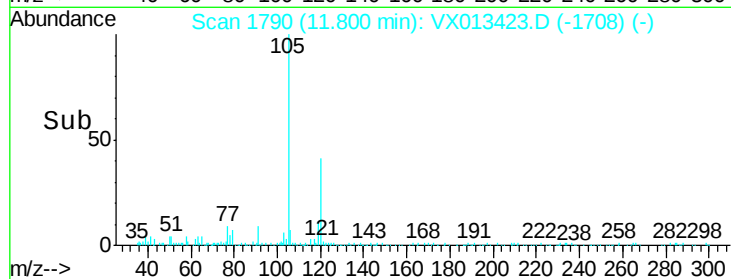
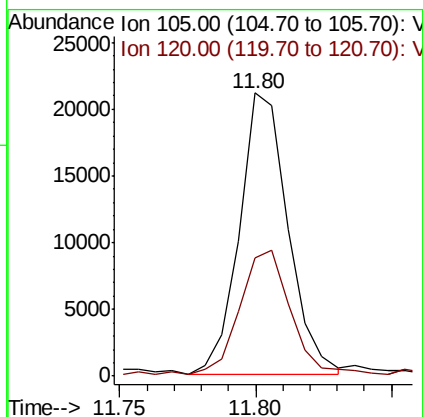
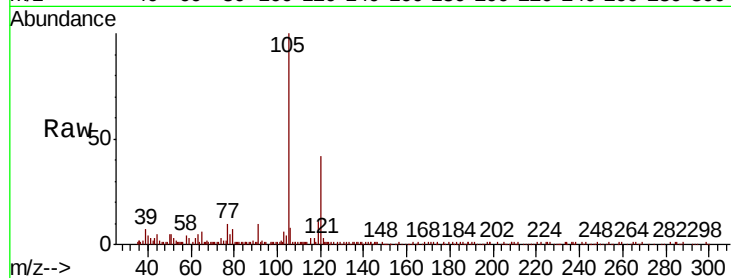




#80
 1,2,4-Trimethylbenzene
 Concen: 0.985 ug/l
 RT: 11.80 min Scan# 1790
 Delta R.T. 0.00 min
 Lab File: VX013423.D
 Acq: 14 Nov 2019 15:36

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:105 Resp: 25997
 Ion Ratio Lower Upper
 105 100
 120 45.8 0.0 94.0



#91
 Naphthalene
 Concen: 1.803 ug/l
 RT: 13.83 min Scan# 2123
 Delta R.T. 0.00 min
 Lab File: VX013423.D
 Acq: 14 Nov 2019 15:36

Tgt Ion:128 Resp: 57481
 Ion Ratio Lower Upper
 128 100
 127 13.1 10.2 15.2
 129 10.0 8.8 13.2

