

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120719\
 Data File : VX0137843.D
 Acq On : 07 Dec 2019 04:11 pm
 Operator : JC/SP
 Sample : K6137-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 09 02:14:08 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	5.01	128	96508	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	543168	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	482498	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	208386	29.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.47%
60) 4-Bromofluorobenzene	11.13	95	224866	29.00	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.67%
63) Toluene-d8	8.71	98	644870	29.56	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.53%

Target Compounds

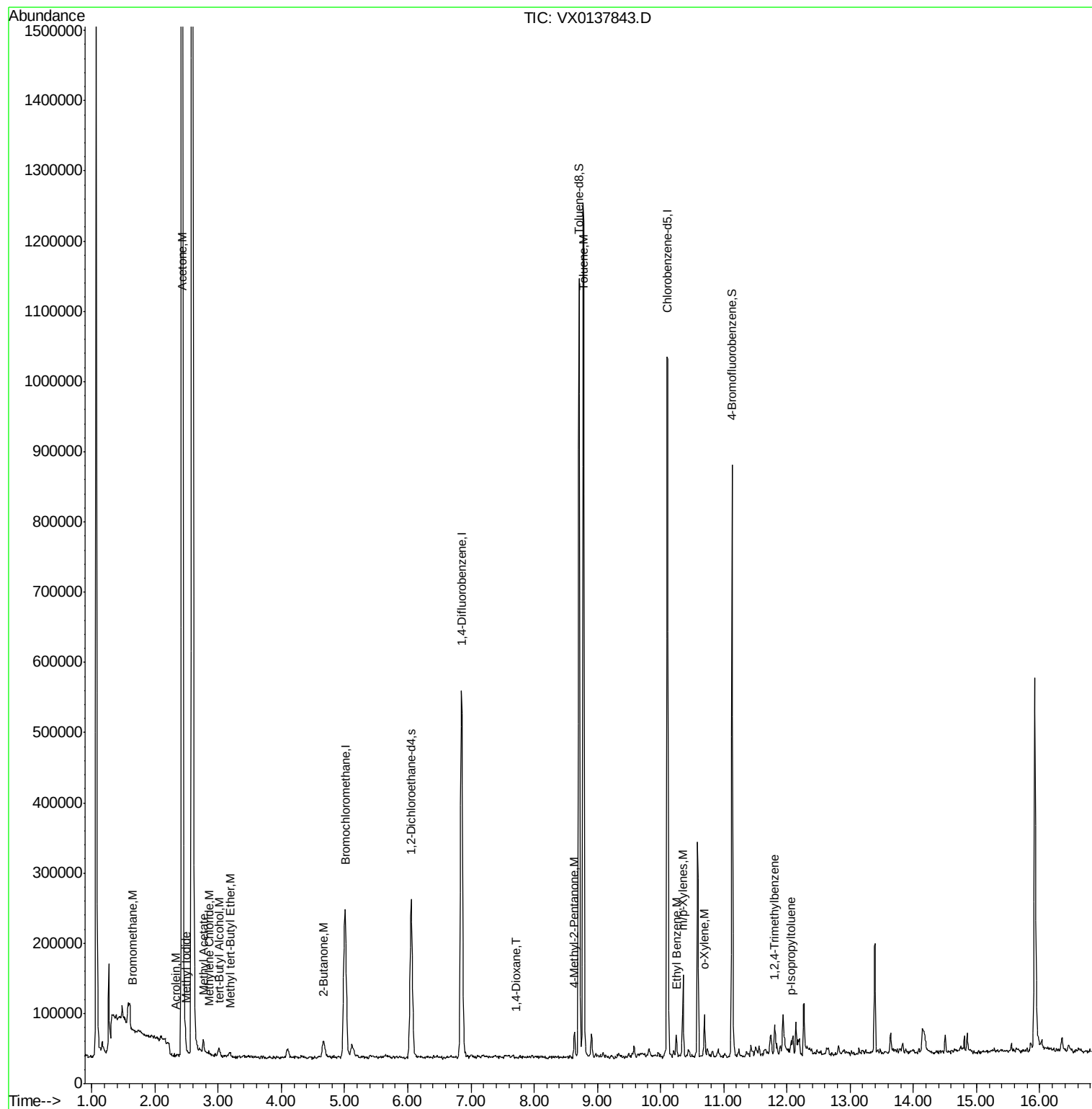
					Ovalue
5) Bromomethane	1.64	94	1434	0.266	ug/l 87
11) Methyl Iodide	2.50	142	1523	0.207	ug/l # 77
12) Methyl Acetate	2.76	43	18103	1.733	ug/l 93
13) Acrolein	2.33	56	338	0.305	ug/l 88
15) Acetone	2.43	58	979274	841.887	ug/l 94
18) Methylene Chloride	2.84	84	1759	0.260	ug/l # 45
23) tert-Butyl Alcohol	3.01	59	7517	4.067	ug/l # 98
24) Methyl tert-Butyl Ether	3.19	73	6435	0.326	ug/l 96
30) 2-Butanone	4.66	43	44090	8.052	ug/l # 96
45) 1,4-Dioxane	7.73	88	268	1.512	ug/l # 1
58) 4-Methyl-2-Pentanone	8.64	43	22681	2.250	ug/l 98
62) Toluene	8.78	91	802829	29.871	ug/l 99
66) Ethyl Benzene	10.25	91	19003	0.644	ug/l 96
67) m/p-Xylenes	10.36	106	28361	2.490	ug/l 93
68) o-Xylene	10.70	106	13356	1.215	ug/l 97
80) 1,2,4-Trimethylbenzene	11.81	105	16268	0.671	ug/l 92
82) p-Isopropyltoluene	12.06	119	8896	0.345	ug/l 92

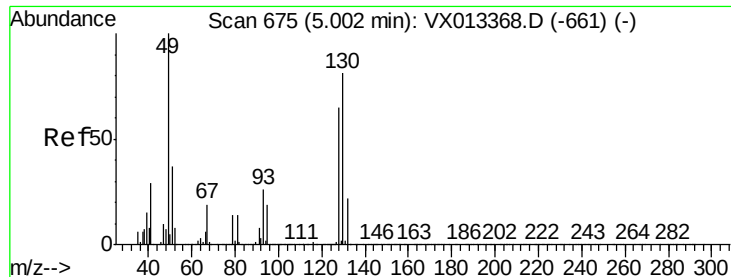
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX0137843.D

Acq: 07 Dec 2019 04:11 pm

Instrument :

MSVOA_X

ClientSampleId :

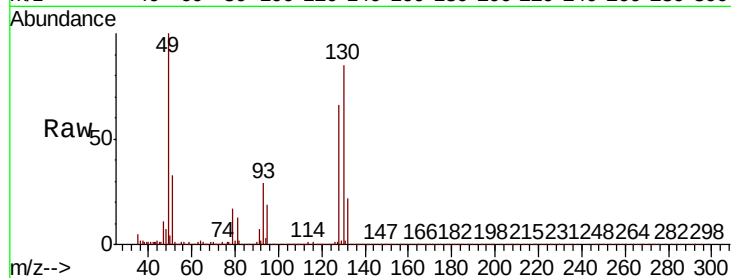
Tot Ion:128 Resp: 96508

Ion Ratio Lower Upper

128 100

49 158.9 0.0 388.3

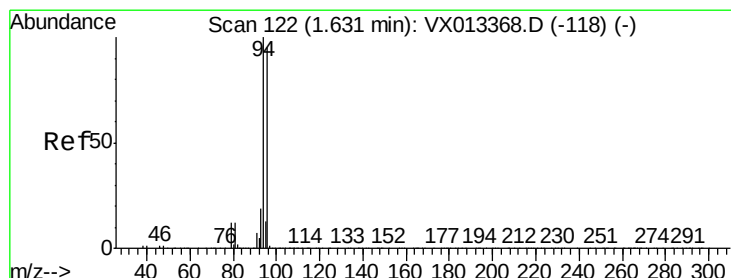
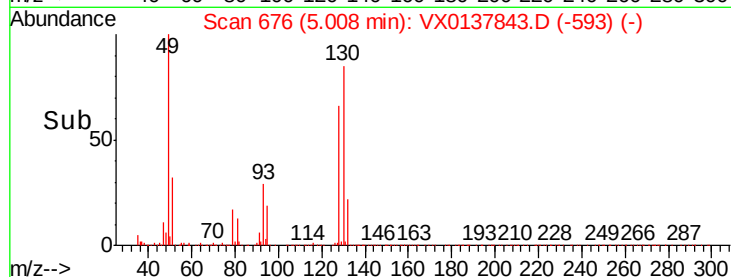
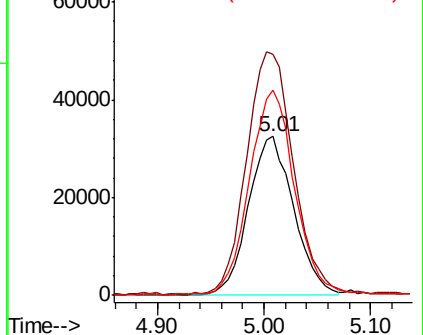
130 129.8 0.0 318.5



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



#5

Bromomethane

Concen: 0.266 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX0137843.D

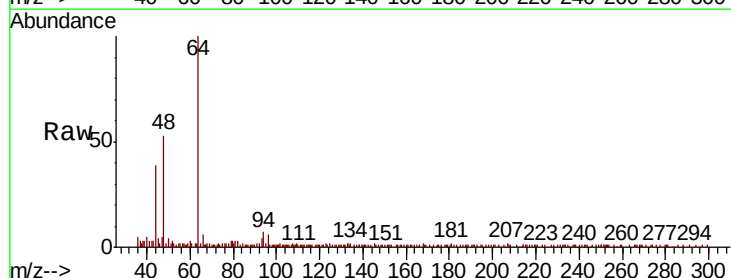
Acq: 07 Dec 2019 04:11 pm

Tgt Ion: 94 Resp: 1434

Ion Ratio Lower Upper

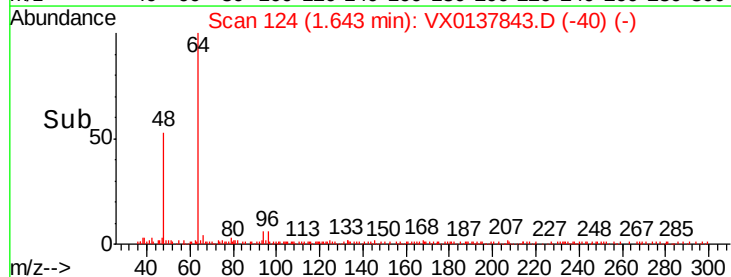
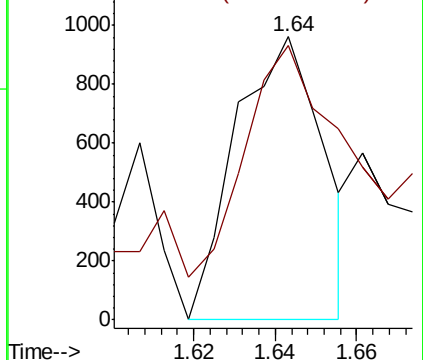
94 100

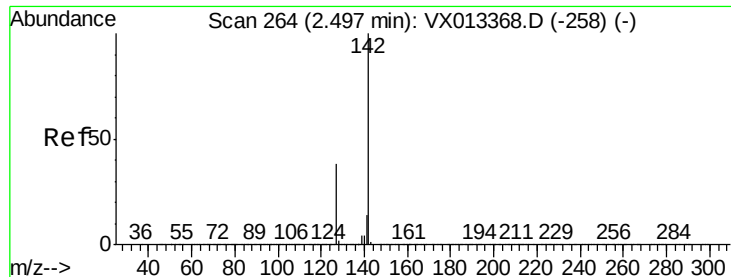
96 82.0 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0

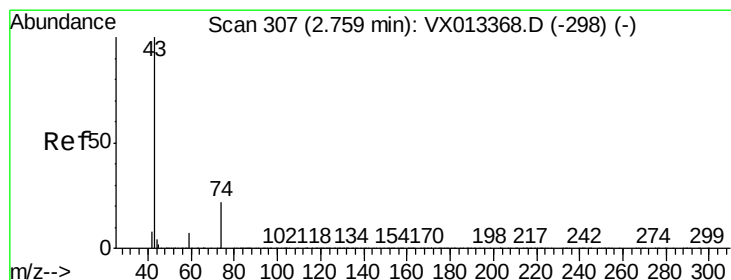
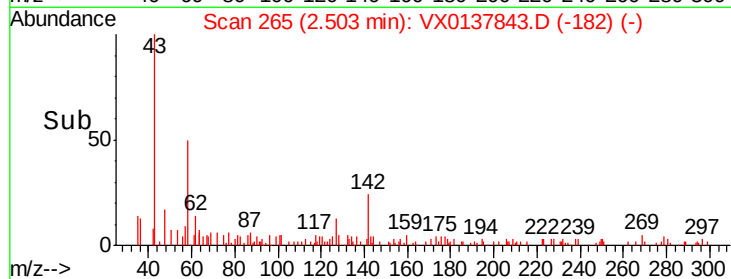
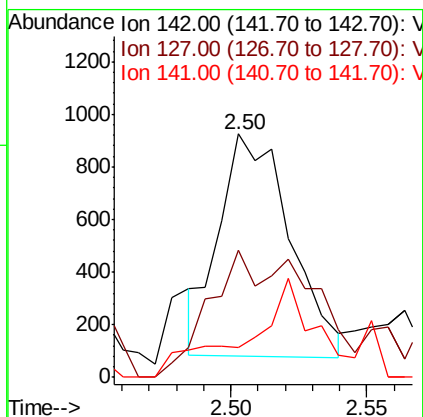
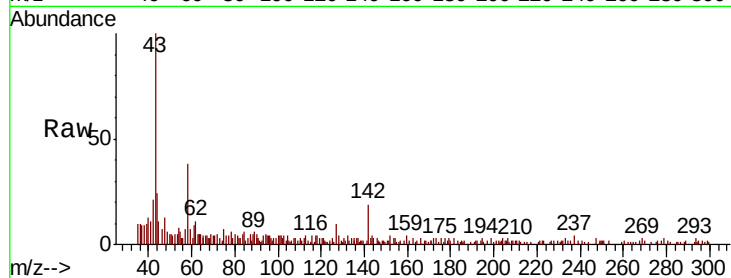




#11
Methyl Iodide
Concen: 0.207 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX0137843.D
Acq: 07 Dec 2019 04:11 pm

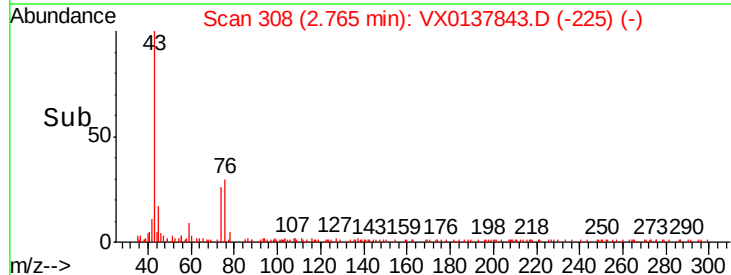
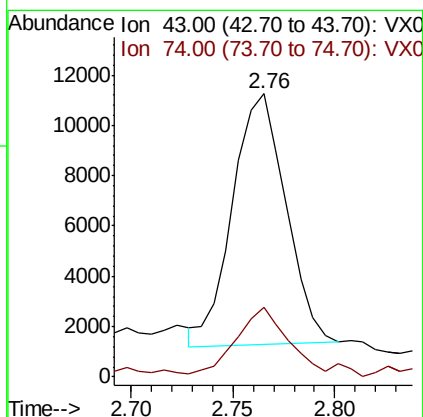
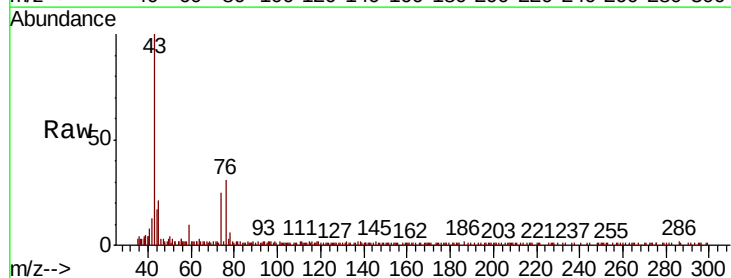
Instrument :
MSVOA_X
ClientSampleId :

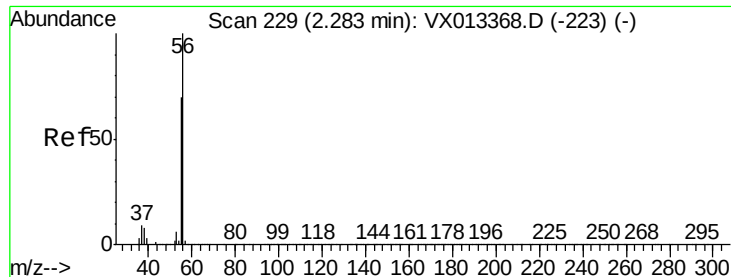
Tot Ion:142 Resp: 1523
Ion Ratio Lower Upper
142 100
127 49.6 19.1 57.5
141 0.0 7.0 21.0#



#12
Methyl Acetate
Concen: 1.733 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.01 min
Lab File: VX0137843.D
Acq: 07 Dec 2019 04:11 pm

Tgt Ion: 43 Resp: 18103
Ion Ratio Lower Upper
43 100
74 25.8 18.0 27.0





#13

Acrolein

Concen: 0.305 ug/l

RT: 2.33 min Scan# 236

Delta R.T. 0.04 min

Lab File: VX0137843.D

Acq: 07 Dec 2019 04:11 pm

Instrument :

MSVOA_X

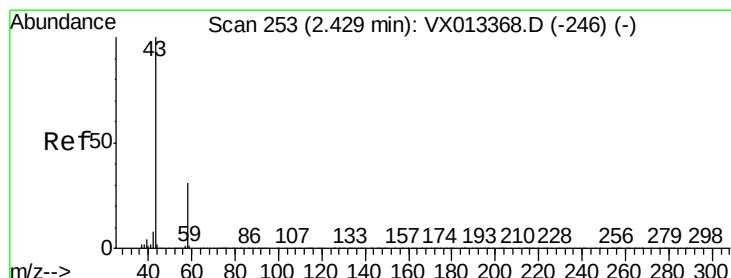
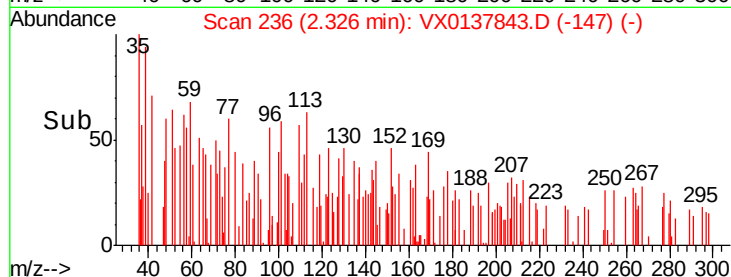
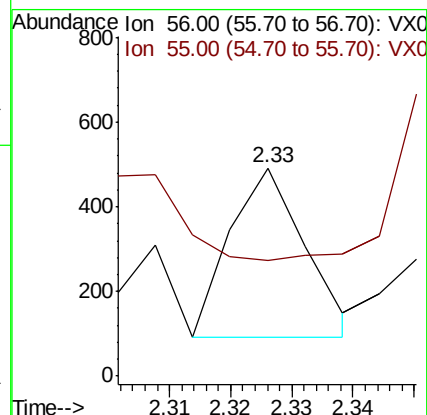
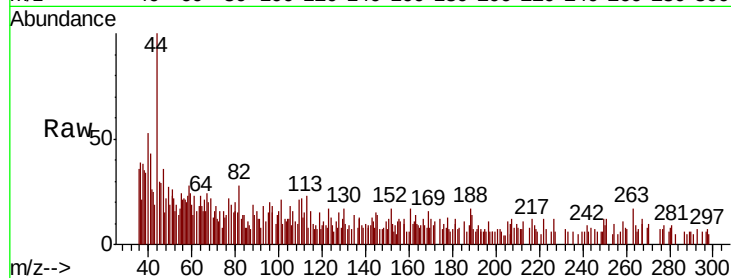
ClientSampleId :

Tot Ion: 56 Resp: 338

Ion Ratio Lower Upper

56 100

55 60.1 55.8 83.8



#15

Acetone

Concen: 841.887 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX0137843.D

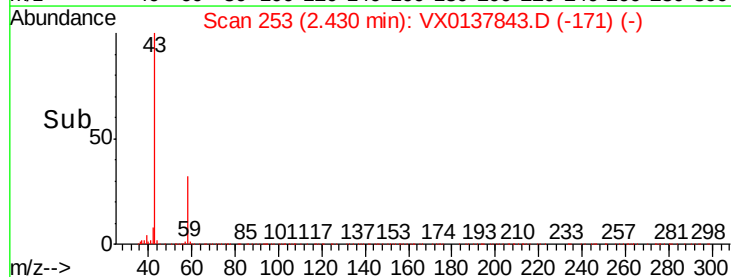
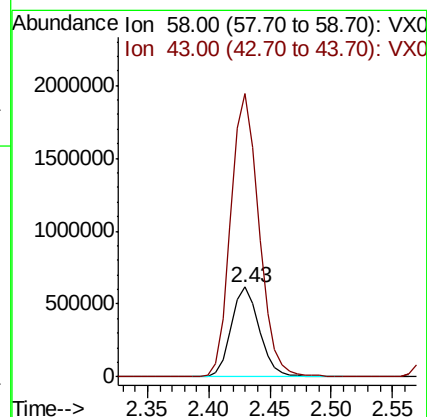
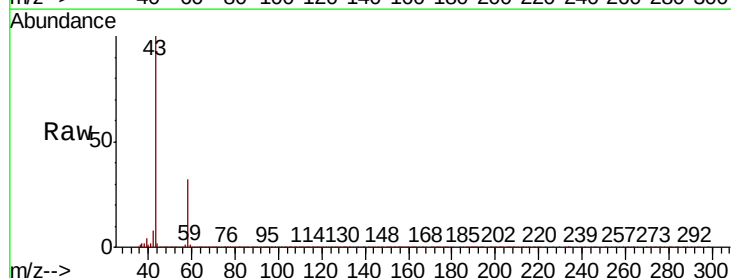
Acq: 07 Dec 2019 04:11 pm

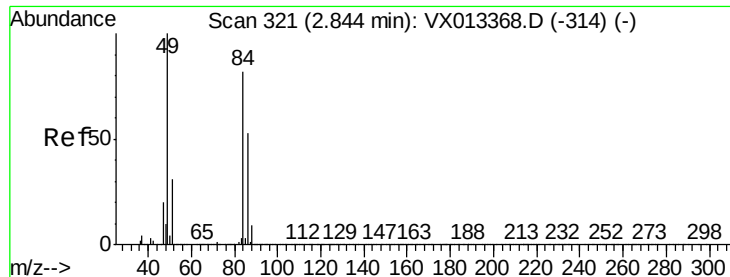
Tgt Ion: 58 Resp: 979274

Ion Ratio Lower Upper

58 100

43 314.4 261.4 392.2

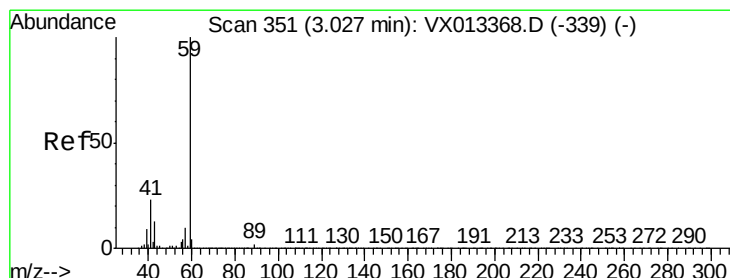
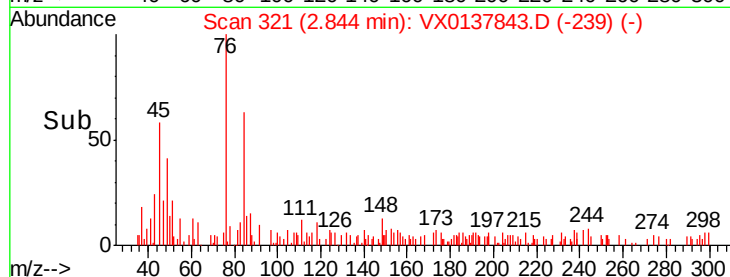
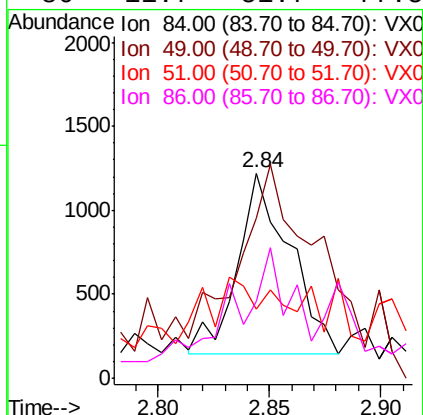
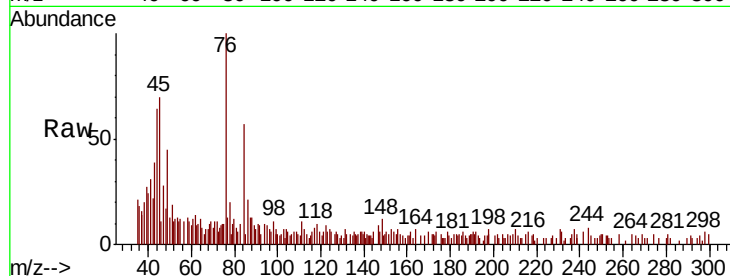




#18
Methylene Chloride
Concen: 0.260 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX0137843.D
Acq: 07 Dec 2019 04:11 pm

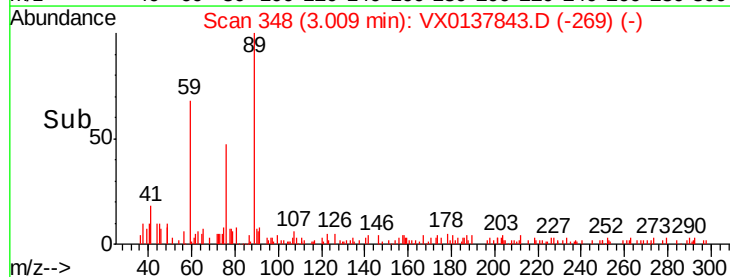
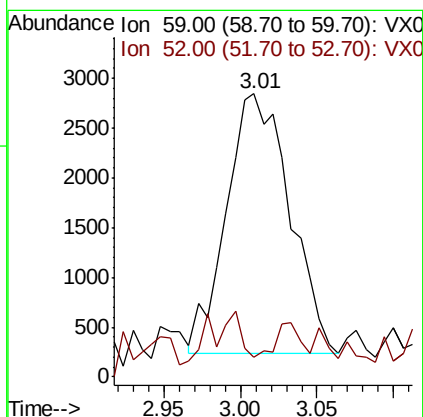
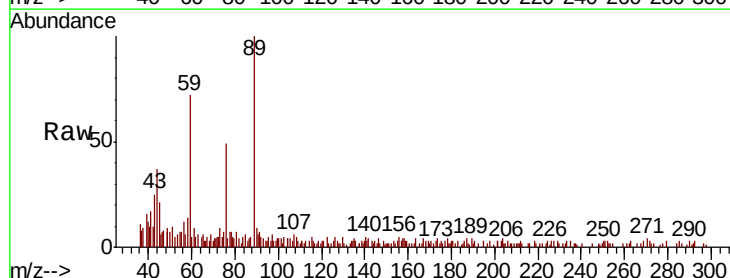
Instrument :
MSVOA_X
ClientSampleId :

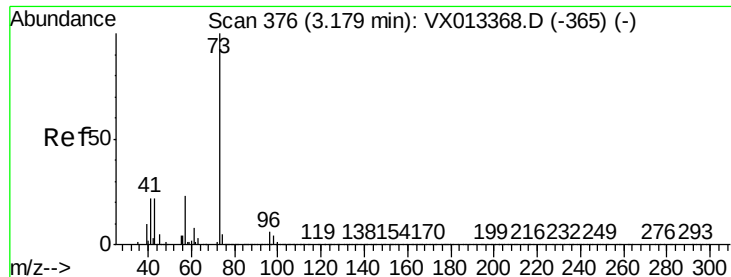
Tot Ion: 84 Resp: 1759
Ion Ratio Lower Upper
84 100
49 66.0 96.8 145.2#
51 7.3 30.0 45.0#
86 11.7 51.7 77.5#



#23
tert-Butyl Alcohol
Concen: 4.067 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX0137843.D
Acq: 07 Dec 2019 04:11 pm

Tgt Ion: 59 Resp: 7517
Ion Ratio Lower Upper
59 100
52 4.3 0.1 0.1#





#24

Methyl tert-Butyl Ether

Concen: 0.326 ug/l

RT: 3.19 min Scan# 377

Delta R.T. 0.01 min

Lab File: VX0137843.D

Acq: 07 Dec 2019 04:11 pm

Instrument :

MSVOA_X

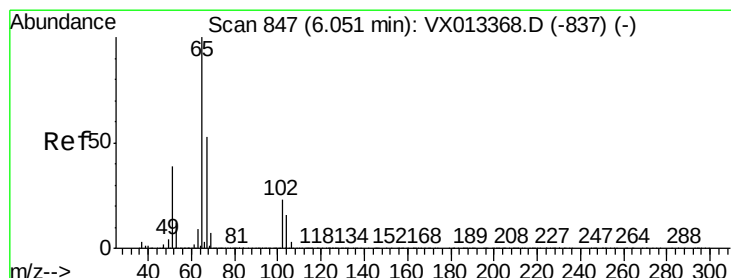
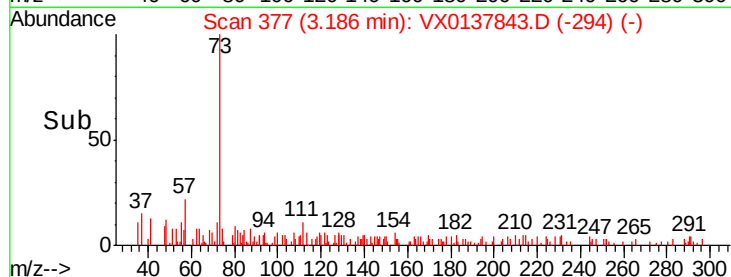
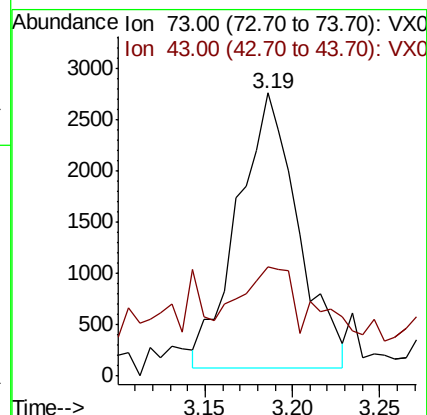
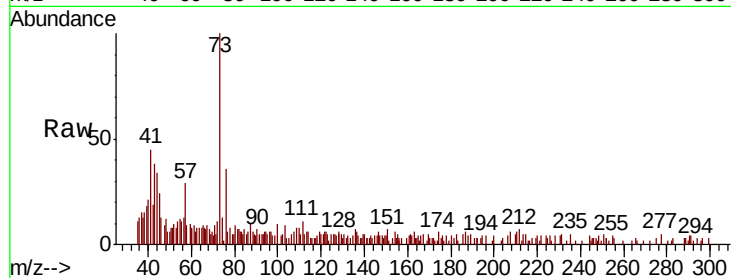
ClientSampleId :

Tot Ion: 73 Resp: 6435

Ion Ratio Lower Upper

73 100

43 19.6 17.0 25.6



#27

1,2-Dichloroethane-d4

Concen: 29.242 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX0137843.D

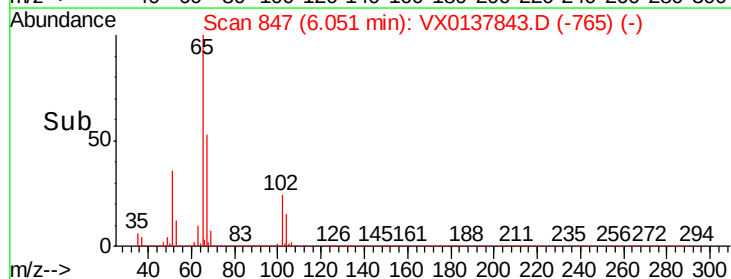
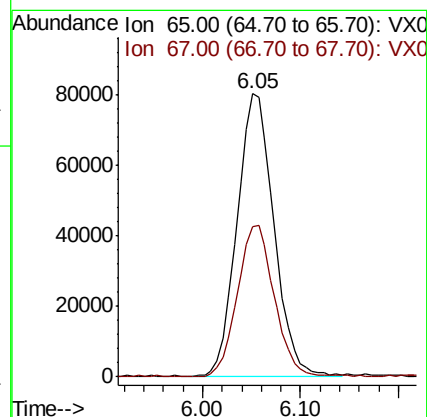
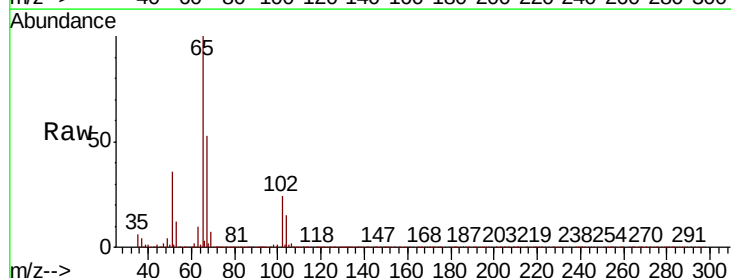
Acq: 07 Dec 2019 04:11 pm

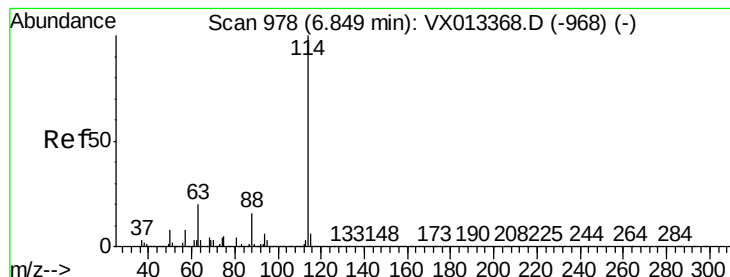
Tgt Ion: 65 Resp: 208386

Ion Ratio Lower Upper

65 100

67 53.2 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: VX0137843.D

Acq: 07 Dec 2019 04:11 pm

Instrument :

MSVOA_X

ClientSampleId :

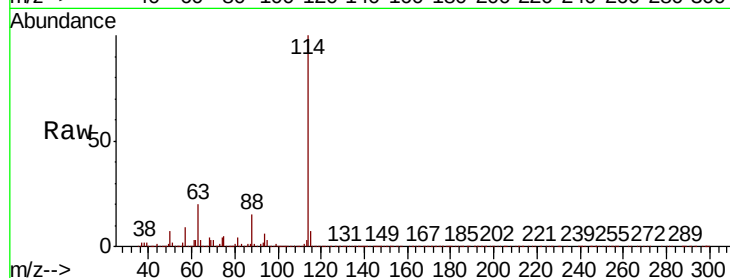
Tot Ion:114 Resp: 543168

Ion Ratio Lower Upper

114 100

63 20.2 16.1 24.1

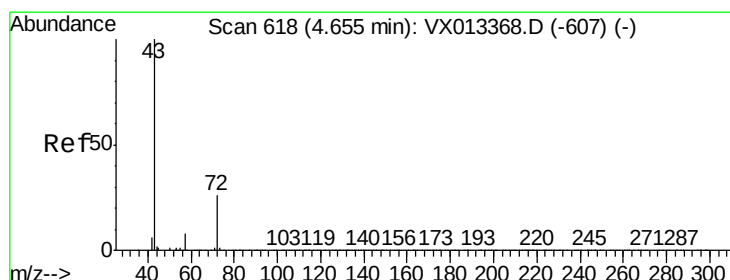
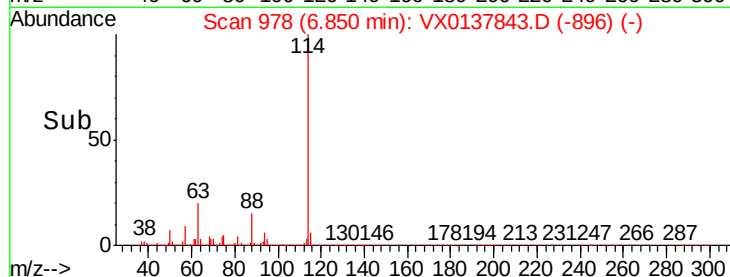
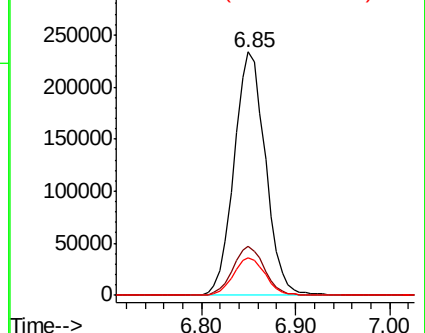
88 15.4 12.3 18.5



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



#30

2-Butanone

Concen: 8.052 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.01 min

Lab File: VX0137843.D

Acq: 07 Dec 2019 04:11 pm

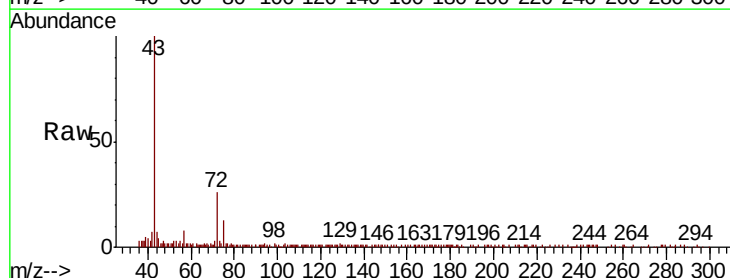
Tgt Ion: 43 Resp: 44090

Ion Ratio Lower Upper

43 100

57 5.7 6.1 9.1#

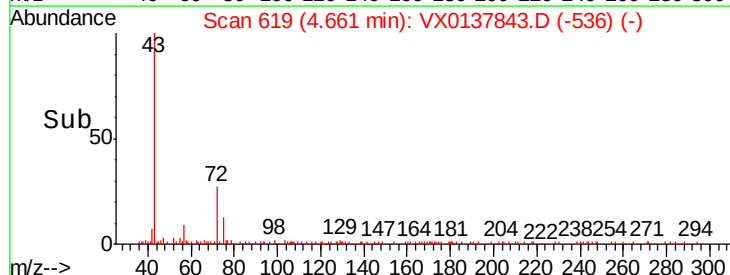
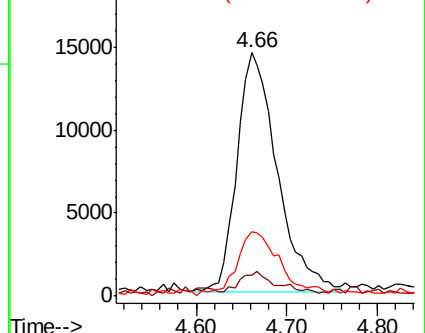
72 24.0 20.5 30.7

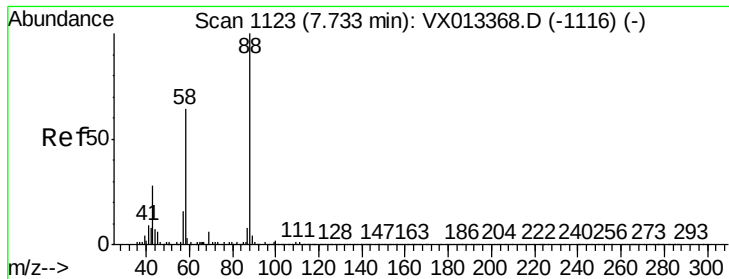


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#45

1,4-Dioxane

Concen: 1.512 ug/l

RT: 7.73 min Scan# 1122

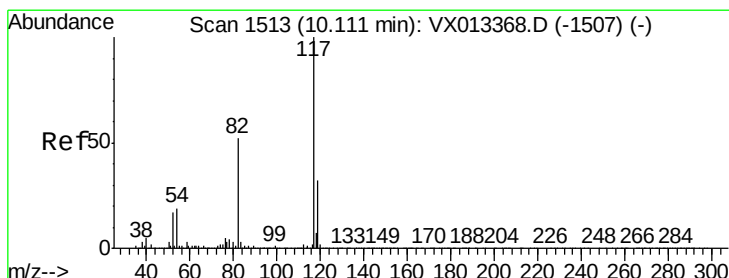
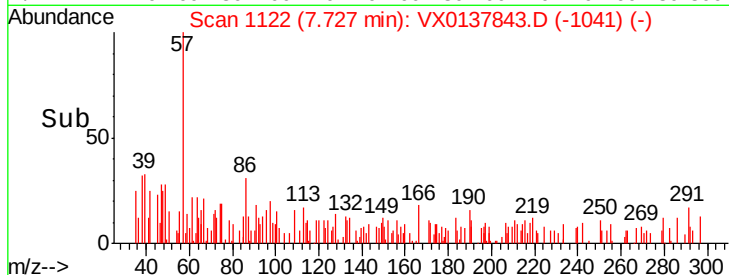
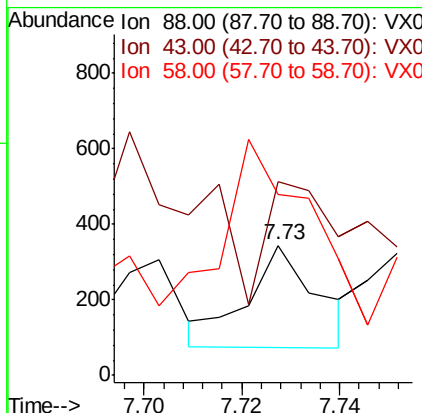
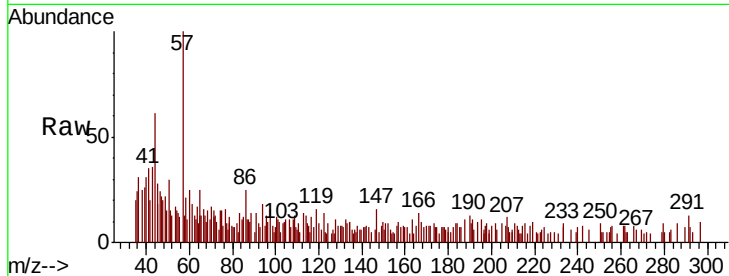
Delta R.T. -0.01 min

Lab File: VX0137843.D

Acq: 07 Dec 2019 04:11 pm

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	88	Resp:	268
Ion	Ratio	Lower	Upper
88	100		
43	178.7	26.1	39.1#
58	244.4	55.8	83.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

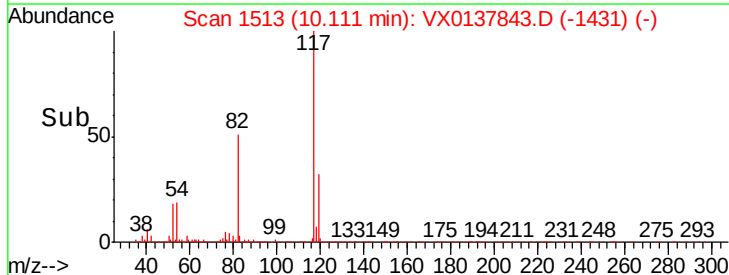
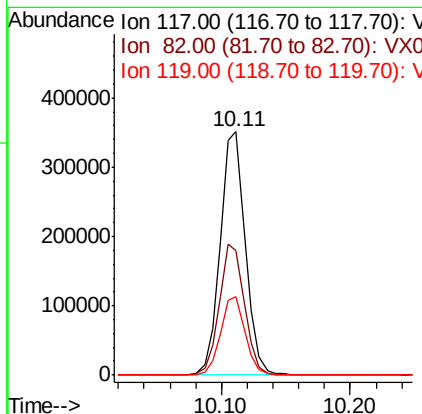
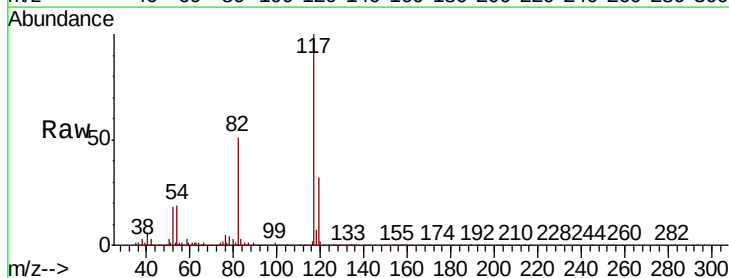
RT: 10.11 min Scan# 1513

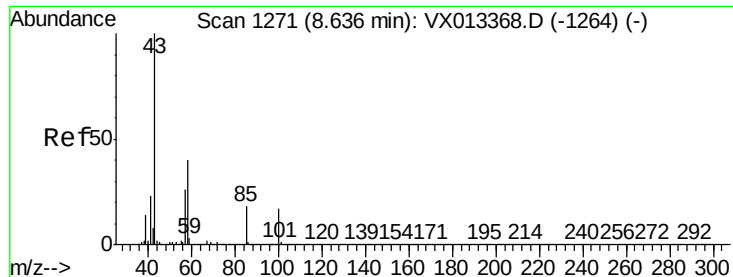
Delta R.T. 0.00 min

Lab File: VX0137843.D

Acq: 07 Dec 2019 04:11 pm

Tgt Ion:	117	Resp:	482498
Ion	Ratio	Lower	Upper
117	100		
82	54.0	43.7	65.5
119	31.8	25.5	38.3

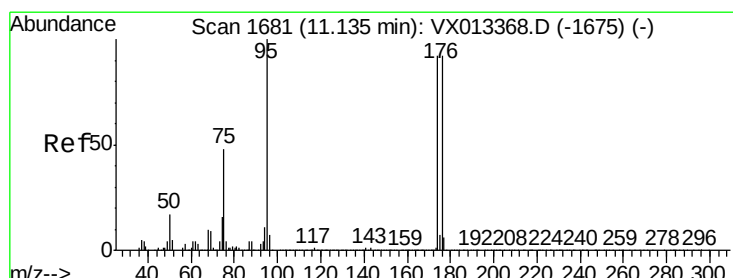
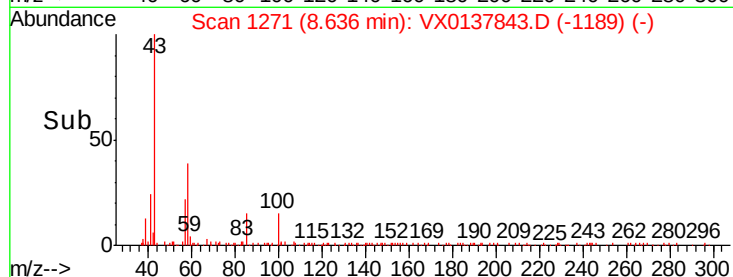
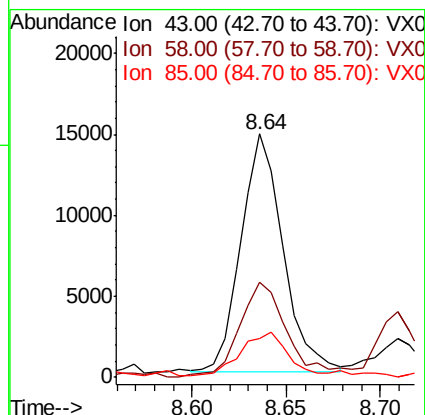
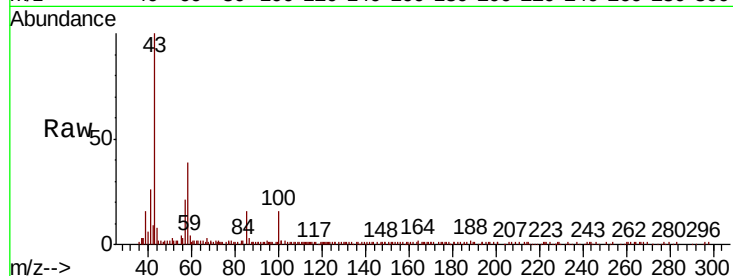




#58
4-Methyl-2-Pentanone
Concen: 2.250 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VX0137843.D
Acq: 07 Dec 2019 04:11 pm

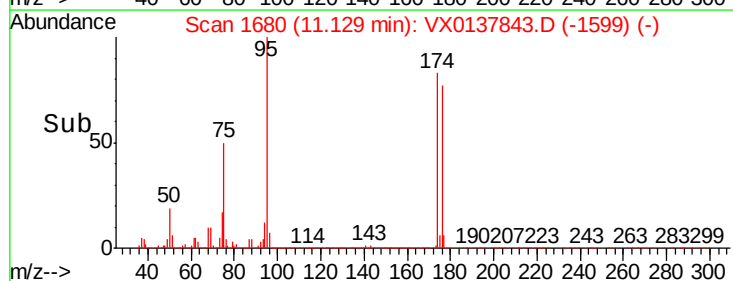
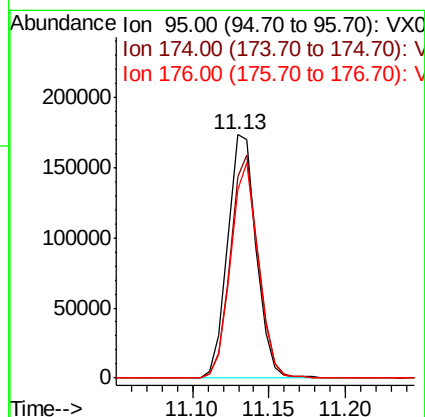
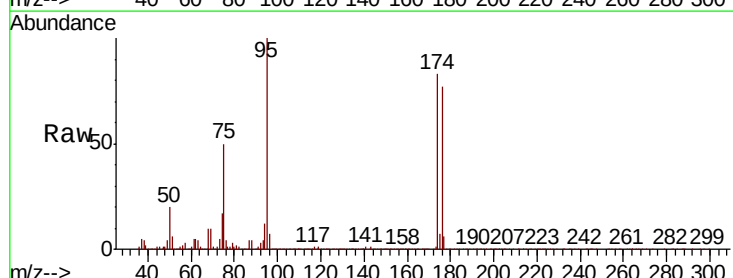
Instrument :
MSVOA_X
ClientSampleId :

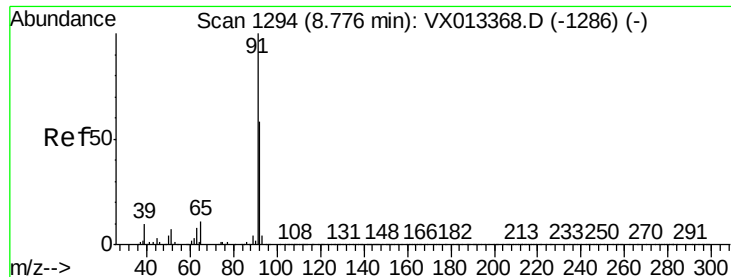
Tot Ion: 43 Resp: 22681
Ion Ratio Lower Upper
43 100
58 39.2 31.6 47.4
85 19.8 14.2 21.2



#60
4-Bromofluorobenzene
Concen: 28.996 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX0137843.D
Acq: 07 Dec 2019 04:11 pm

Tgt Ion: 95 Resp: 224866
Ion Ratio Lower Upper
95 100
174 89.2 70.2 105.2
176 85.7 68.3 102.5





#62

Toluene

Concen: 29.871 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX0137843.D

Acq: 07 Dec 2019 04:11 pm

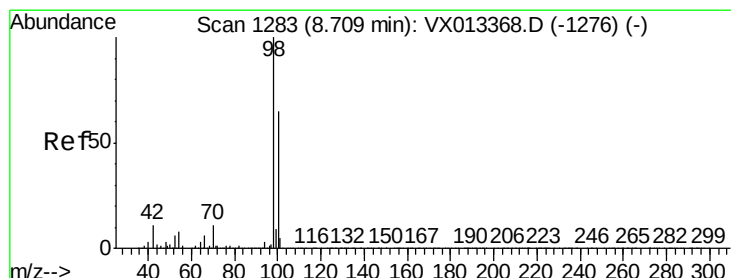
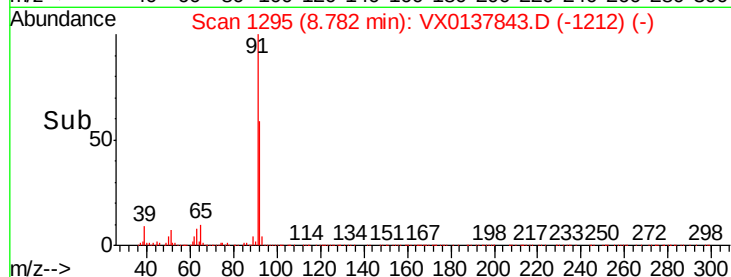
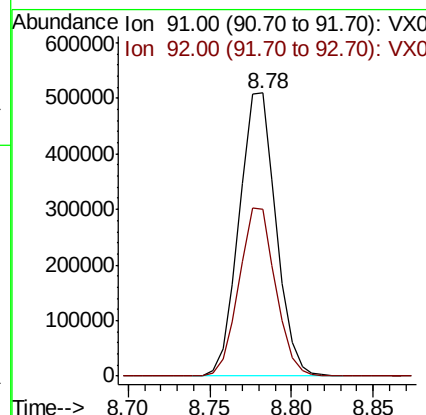
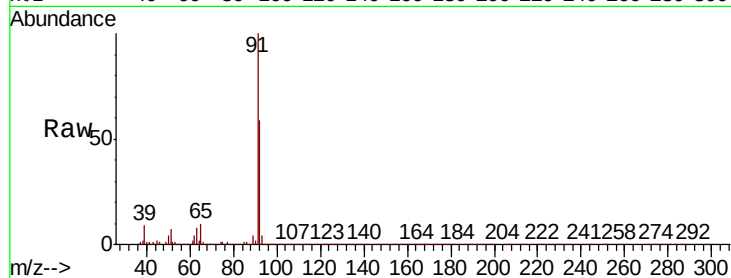
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 91 Resp: 802829

Ion Ratio Lower Upper

91 100

92 59.0 46.6 69.8



#63

Toluene-d8

Concen: 29.556 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX0137843.D

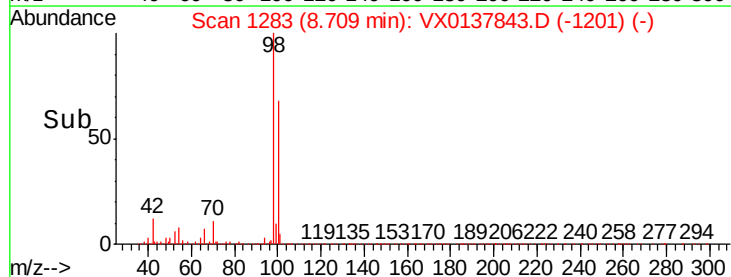
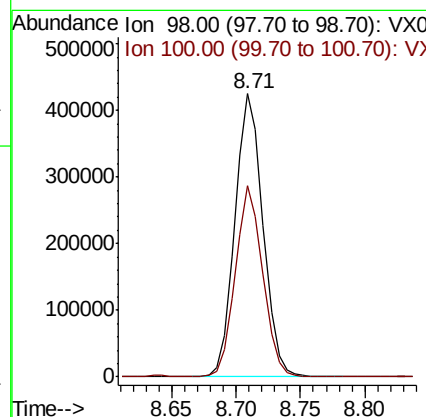
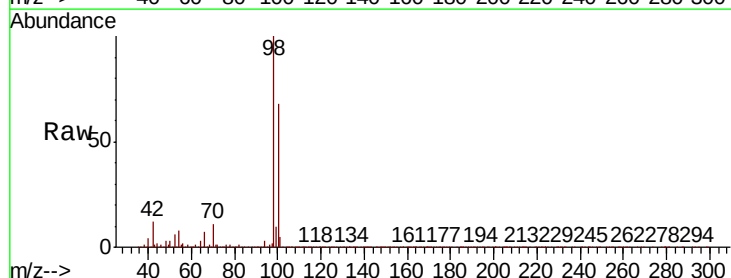
Acq: 07 Dec 2019 04:11 pm

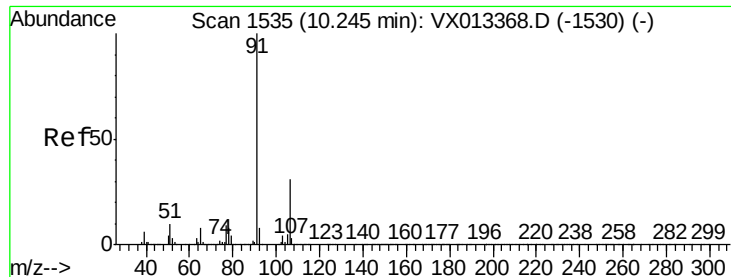
Tgt Ion: 98 Resp: 644870

Ion Ratio Lower Upper

98 100

100 66.0 52.5 78.7

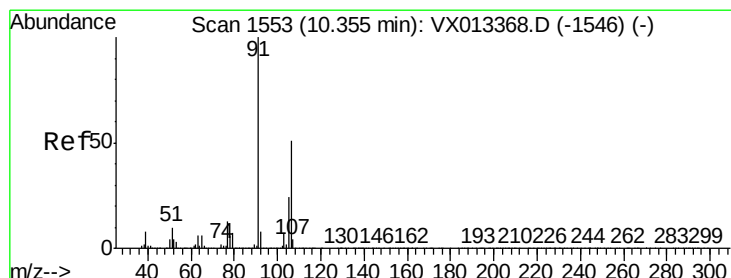
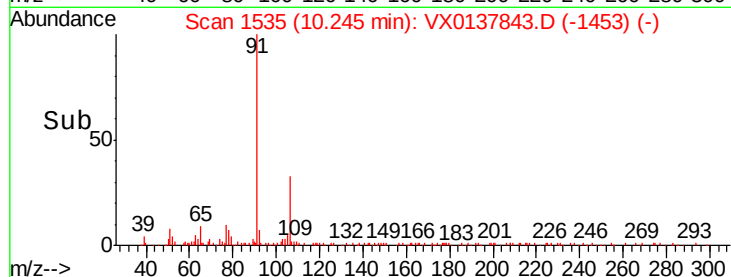
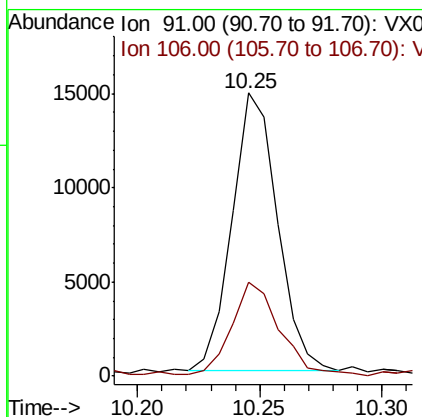
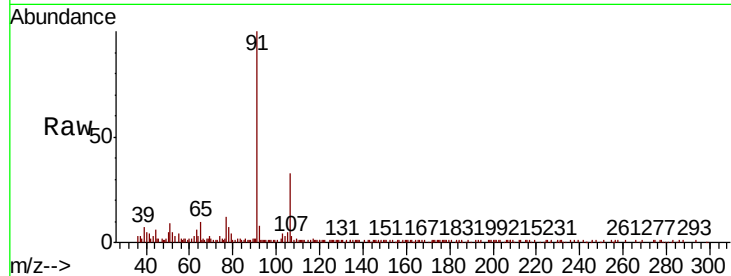




#66
Ethyl Benzene
Concen: 0.644 ug/l
RT: 10.25 min Scan# 1535
Delta R.T. 0.00 min
Lab File: VX0137843.D
Acq: 07 Dec 2019 04:11 pm

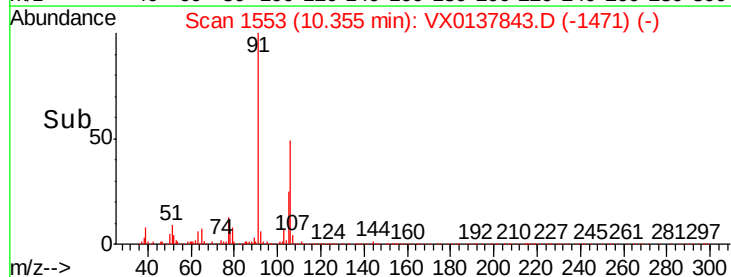
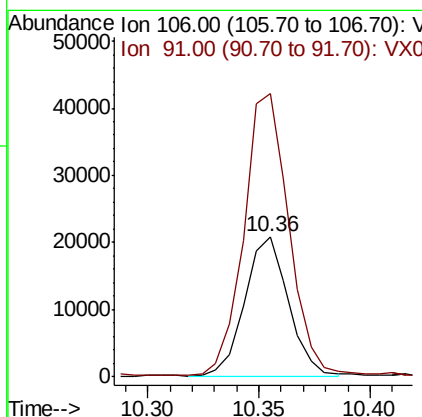
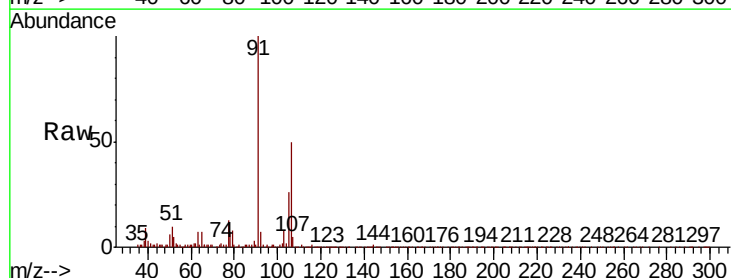
Instrument :
MSVOA_X
ClientSampleId :

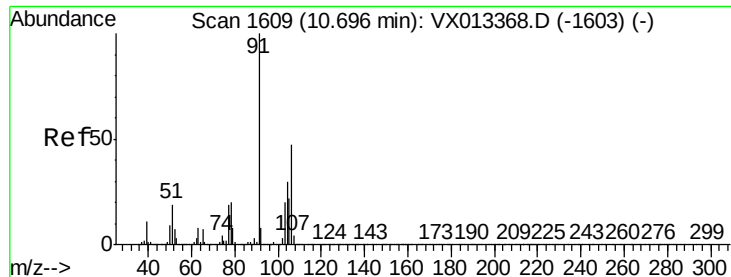
Tot Ion: 91 Resp: 19003
Ion Ratio Lower Upper
91 100
106 33.3 25.0 37.4



#67
m/p-Xylenes
Concen: 2.490 ug/l
RT: 10.36 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX0137843.D
Acq: 07 Dec 2019 04:11 pm

Tgt Ion: 106 Resp: 28361
Ion Ratio Lower Upper
106 100
91 209.2 158.4 237.6

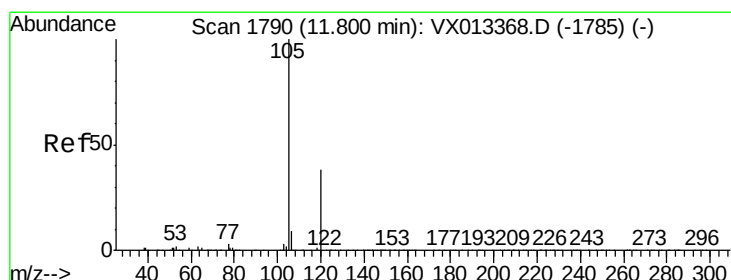
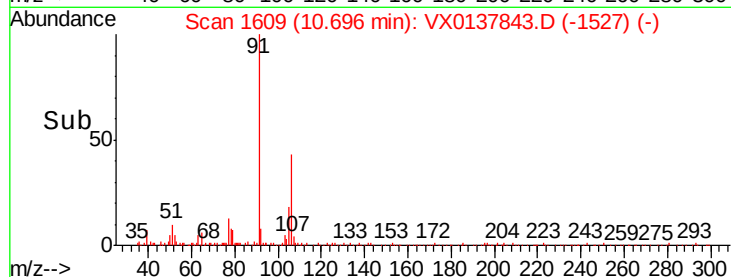
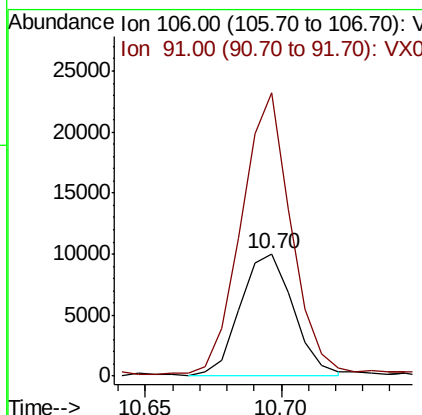
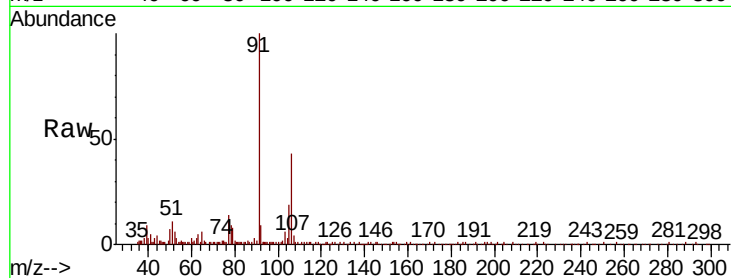




#68
o-Xylene
Concen: 1.215 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX0137843.D
Acq: 07 Dec 2019 04:11 pm

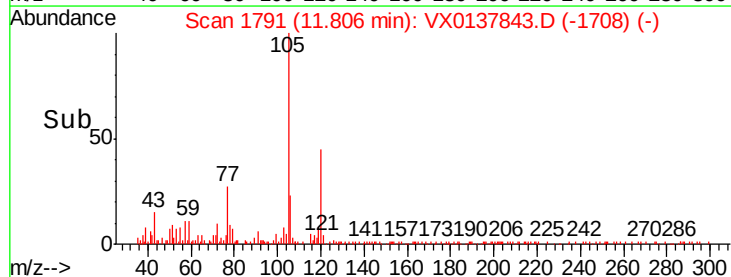
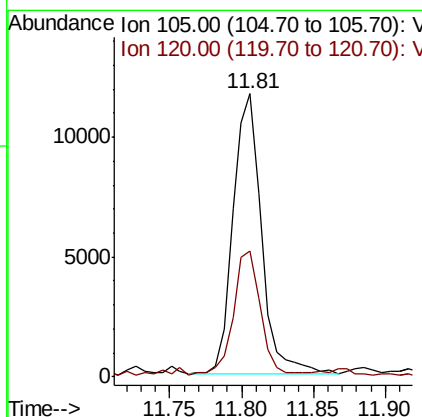
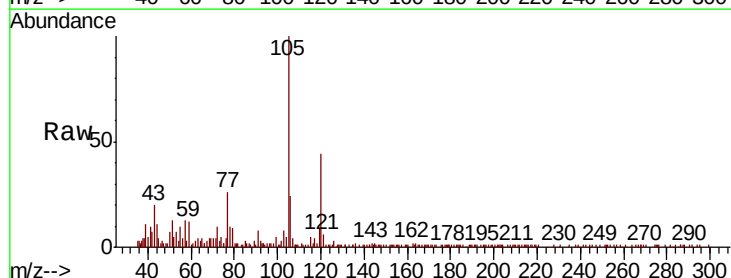
Instrument :
MSVOA_X
ClientSampled :

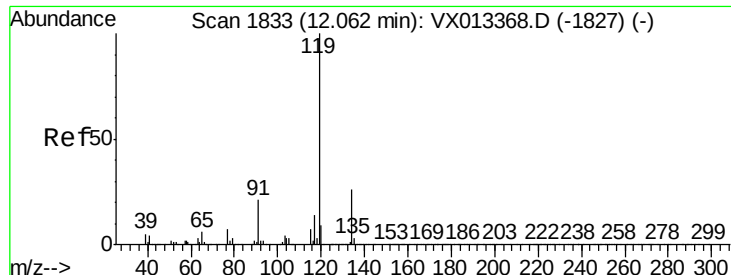
Tot Ion:106 Resp: 13356
Ion Ratio Lower Upper
106 100
91 217.5 106.4 319.2



#80
1,2,4-Trimethylbenzene
Concen: 0.671 ug/l
RT: 11.81 min Scan# 1791
Delta R.T. 0.01 min
Lab File: VX0137843.D
Acq: 07 Dec 2019 04:11 pm

Tgt Ion:105 Resp: 16268
Ion Ratio Lower Upper
105 100
120 41.7 0.0 94.0





#82
 p-Isopropyltoluene
 Concen: 0.345 ug/l
 RT: 12.06 min Scan# 1833
 Delta R.T. 0.00 min
 Lab File: VX0137843.D
 Acq: 07 Dec 2019 04:11 pm

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	29.9	0.0	51.6
91	26.3	0.0	44.2

