

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120719\
 Data File : VX0137842.D
 Acq On : 07 Dec 2019 15:48
 Operator : JC/SP
 Sample : K6137-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 09 02:55:12 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	5.01	128	96255	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	525274	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	462946	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		6.06	65	205262	28.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.27%	
60) 4-Bromofluorobenzene		11.14	95	214039	28.77	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.90%	
63) Toluene-d8		8.71	98	626975	29.95	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.83%	

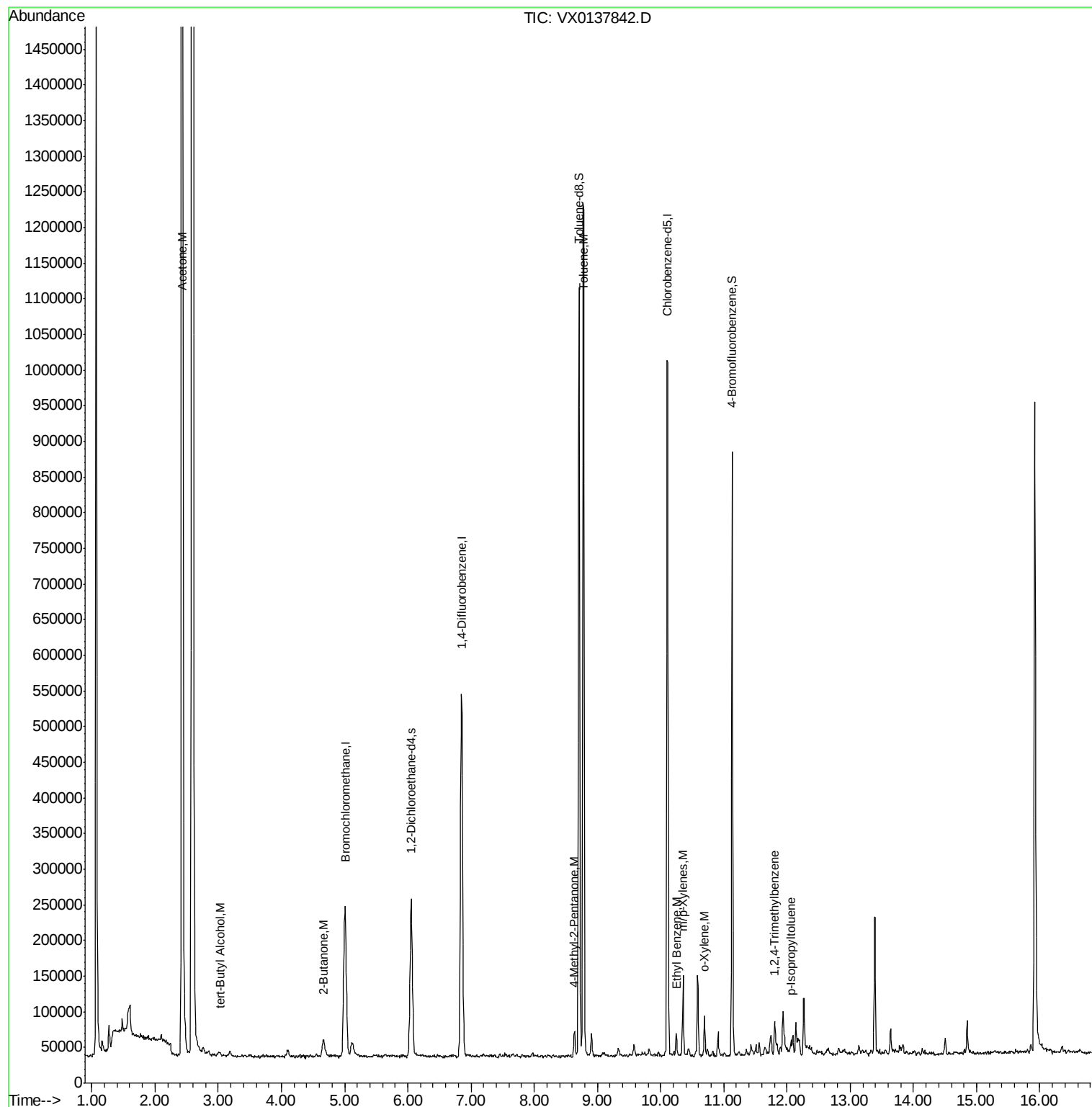
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
15) Acetone	2.43	58	993772	856.597	ug/l	95
23) tert-Butyl Alcohol	3.03	59	7185	3.898	ug/l #	94
30) 2-Butanone	4.67	43	46526	8.786	ug/l #	97
58) 4-Methyl-2-Pentanone	8.64	43	22758	2.353	ug/l	99
62) Toluene	8.78	91	793952	30.789	ug/l	100
66) Ethyl Benzene	10.25	91	19544	0.690	ug/l	91
67) m/p-Xylenes	10.35	106	28123	2.574	ug/l	98
68) o-Xylene	10.70	106	13307	1.262	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	17586	0.755	ug/l	80
82) p-Isopropyltoluene	12.06	119	8547	0.345	ug/l	94

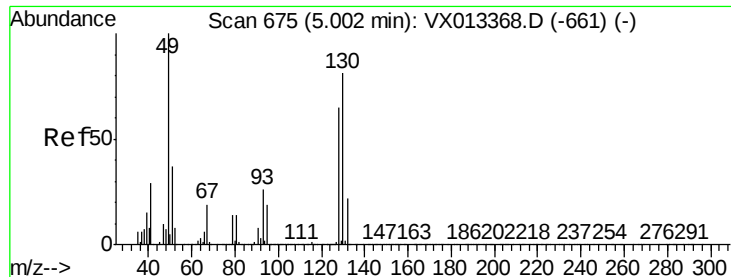
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX0137842.D

Acq: 07 Dec 2019 15:48

Instrument :
MSVOA_X
ClientSampleId :

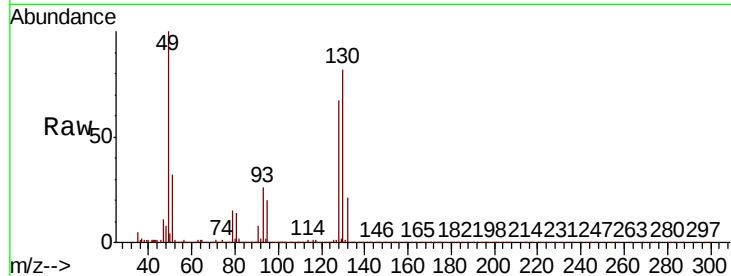
Tot Ion:128 Resp: 96255

Ion Ratio Lower Upper

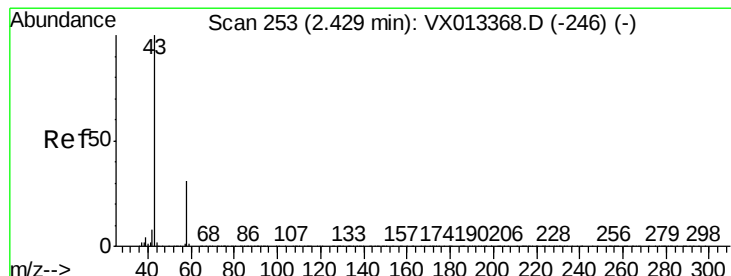
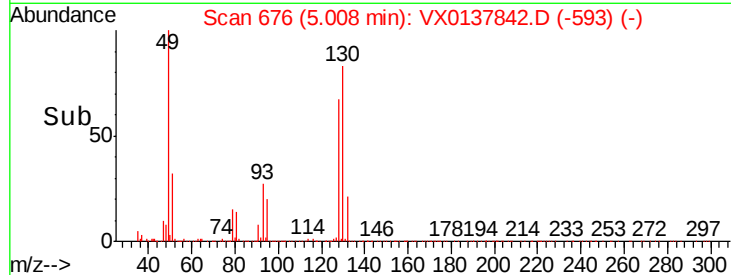
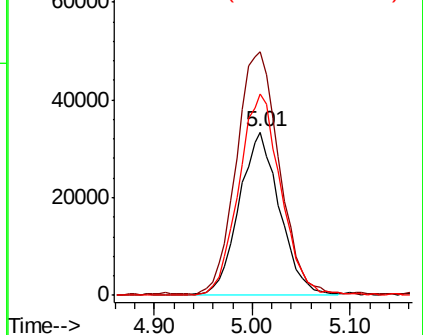
128 100

49 159.1 0.0 388.3

130 127.9 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



#15

Acetone

Concen: 856.597 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX0137842.D

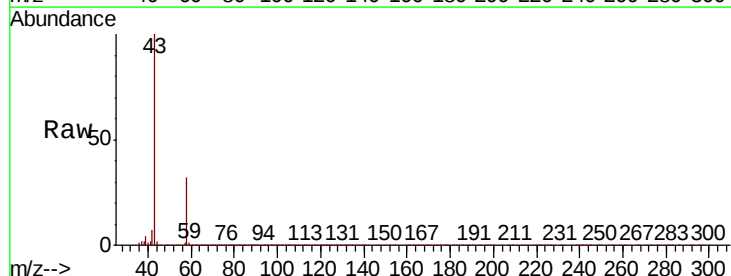
Acq: 07 Dec 2019 15:48

Tgt Ion: 58 Resp: 993772

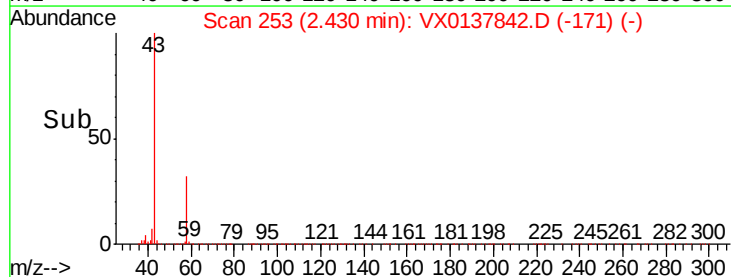
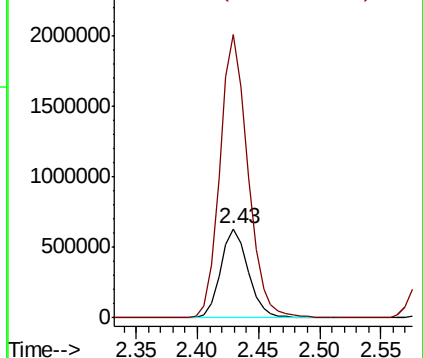
Ion Ratio Lower Upper

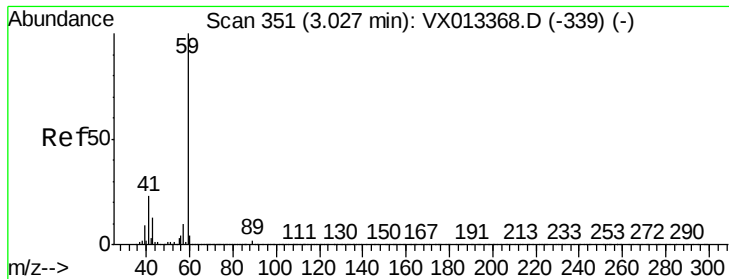
58 100

43 317.0 261.4 392.2



Abundance Ion 58.00 (57.70 to 58.70): VX0
Ion 43.00 (42.70 to 43.70): VX0



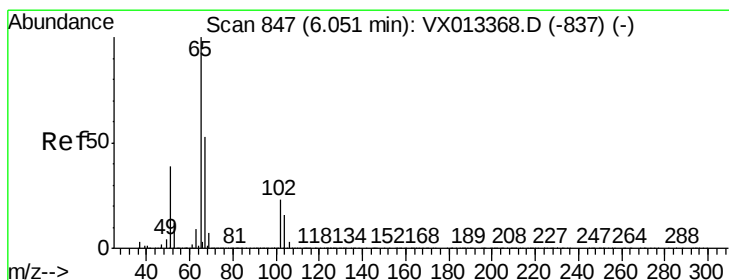
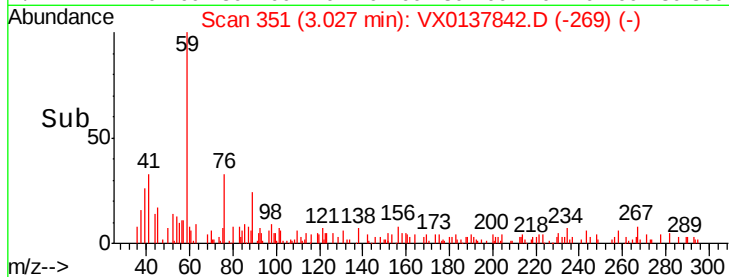
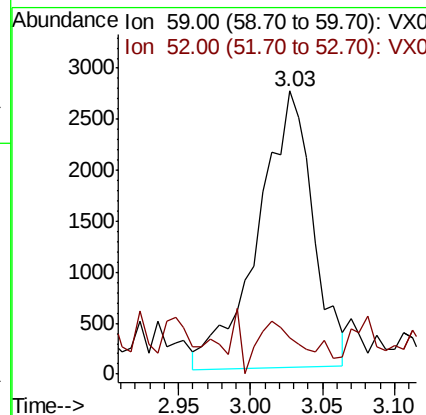
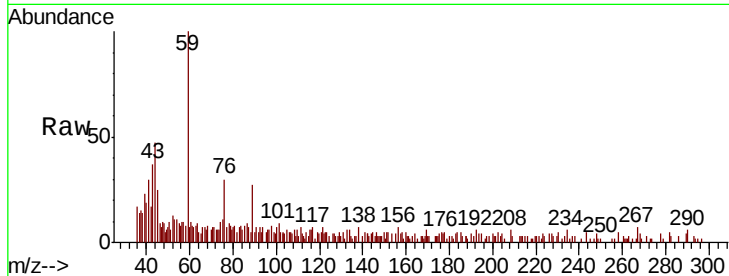


#23

tert-Butyl Alcohol
 Concen: 3.898 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. 0.00 min
 Lab File: VX0137842.D
 Acq: 07 Dec 2019 15:48

Instrument :
 MSVOA_X
 ClientSampleId :

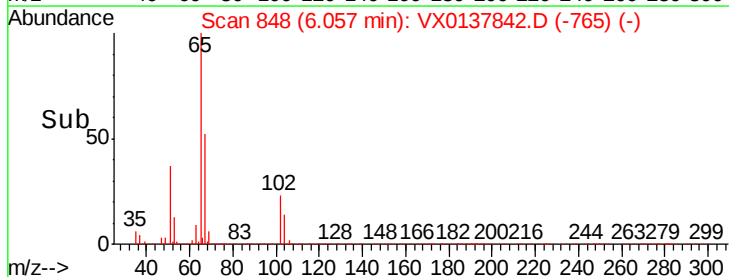
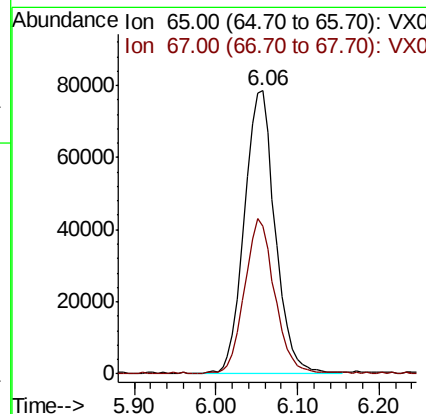
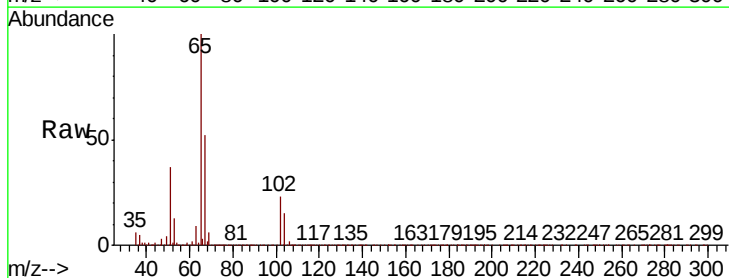
Tot Ion: 59 Resp: 7185
 Ion Ratio Lower Upper
 59 100
 52 14.2 0.1 0.1#

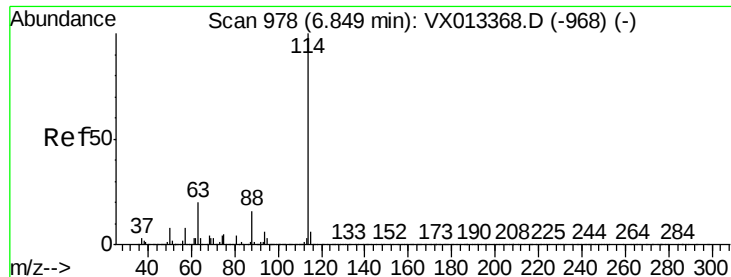


#27

1,2-Dichloroethane-d4
 Concen: 28.879 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX0137842.D
 Acq: 07 Dec 2019 15:48

Tgt Ion: 65 Resp: 205262
 Ion Ratio Lower Upper
 65 100
 67 53.4 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: VX0137842.D

Acq: 07 Dec 2019 15:48

Instrument :

MSVOA_X

ClientSampleId :

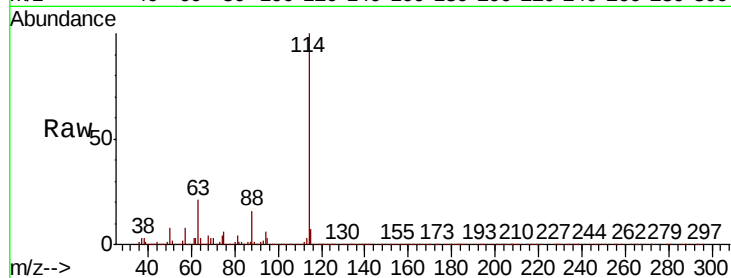
Tot Ion:114 Resp: 525274

Ion Ratio Lower Upper

114 100

63 20.4 16.1 24.1

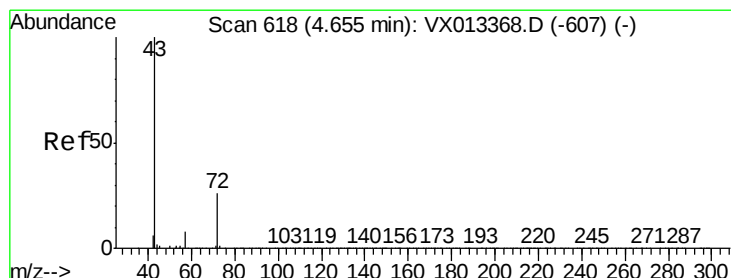
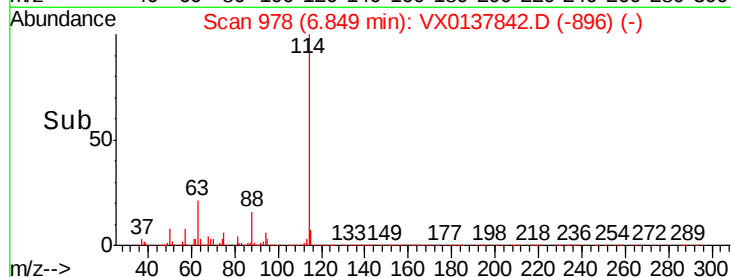
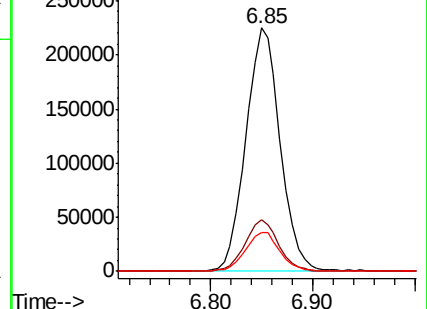
88 16.1 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): VX0

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0



#30

2-Butanone

Concen: 8.786 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX0137842.D

Acq: 07 Dec 2019 15:48

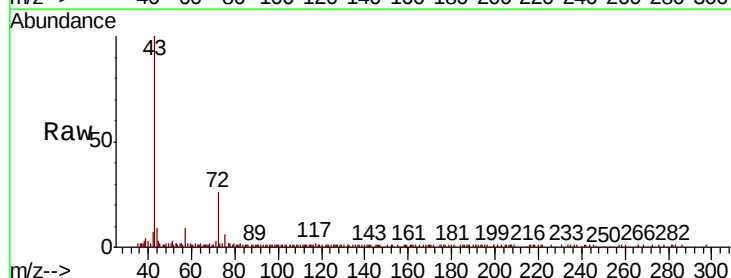
Tgt Ion: 43 Resp: 46526

Ion Ratio Lower Upper

43 100

57 6.1 6.1 9.1#

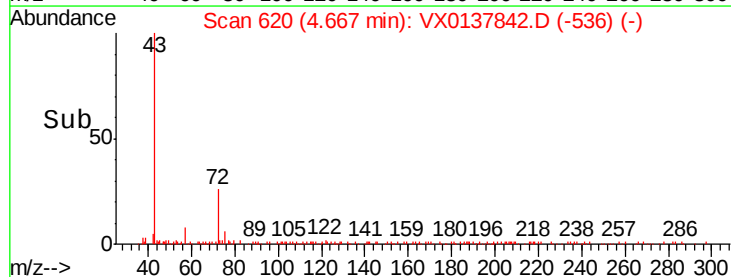
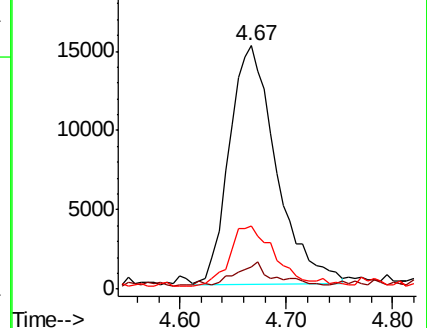
72 24.2 20.5 30.7

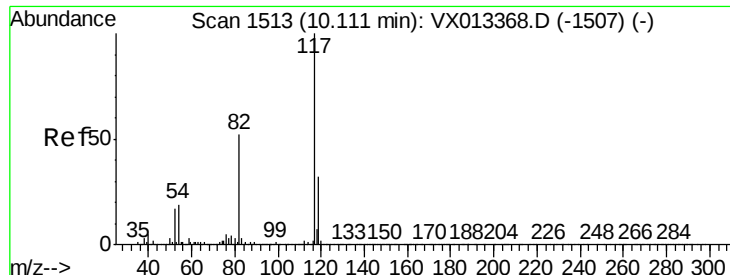


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

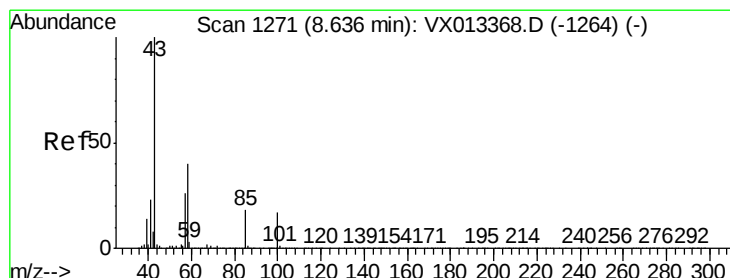
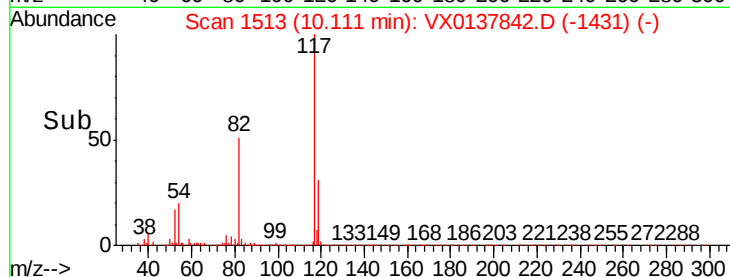
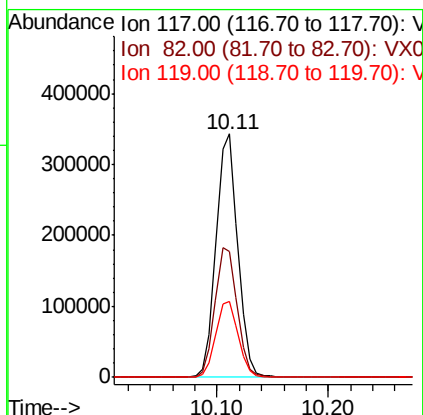
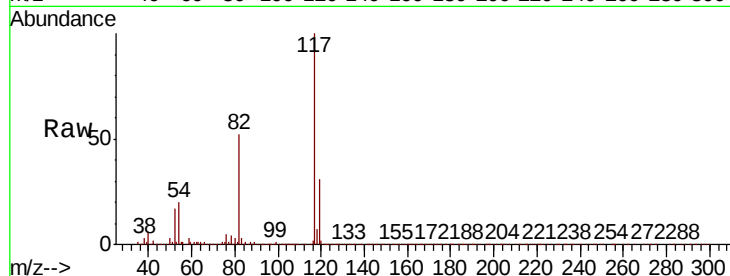




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX0137842.D
Acq: 07 Dec 2019 15:48

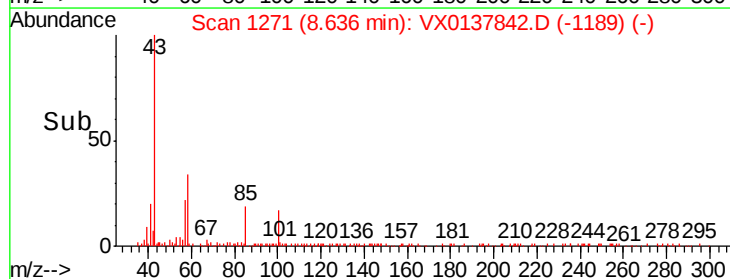
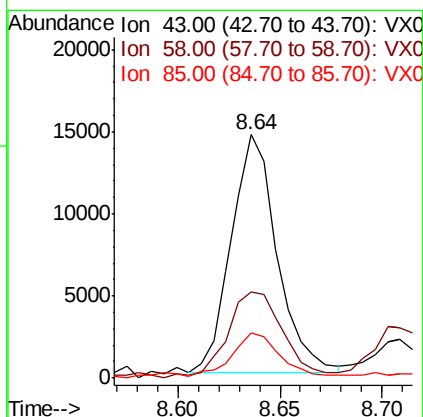
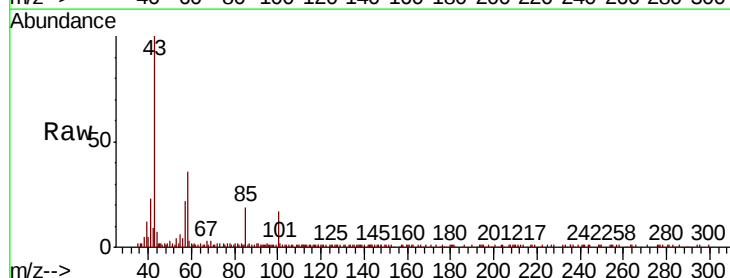
Instrument :
MSVOA_X
ClientSampleId :

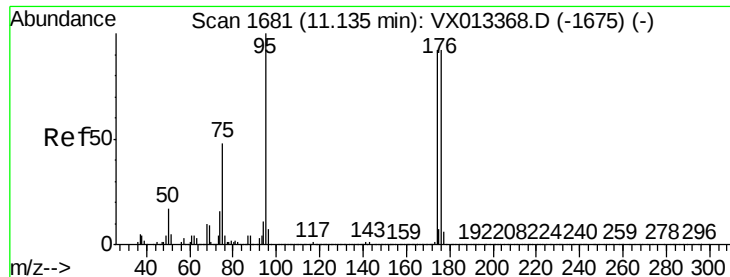
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.3	43.7	65.5
119	32.3	25.5	38.3



#58
4-Methyl-2-Pentanone
Concen: 2.353 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VX0137842.D
Acq: 07 Dec 2019 15:48

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.1	31.6	47.4
85	18.6	14.2	21.2

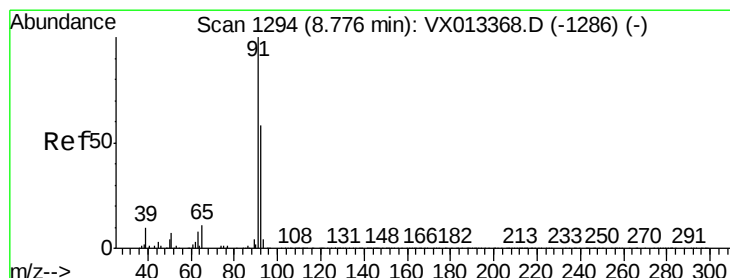
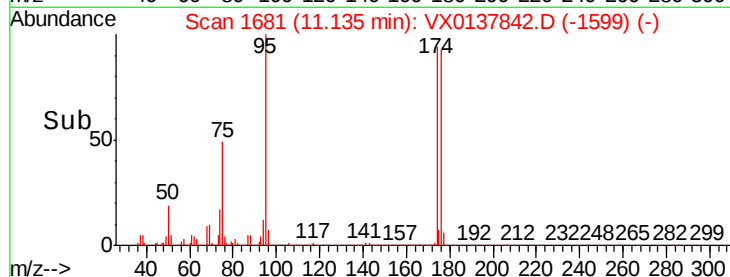
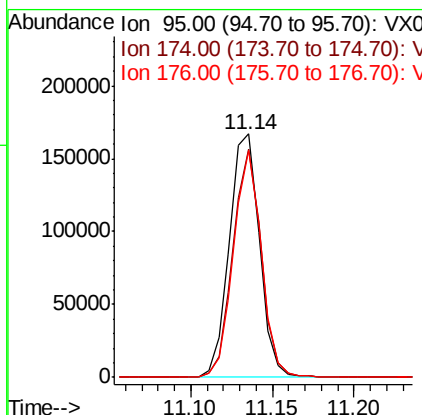
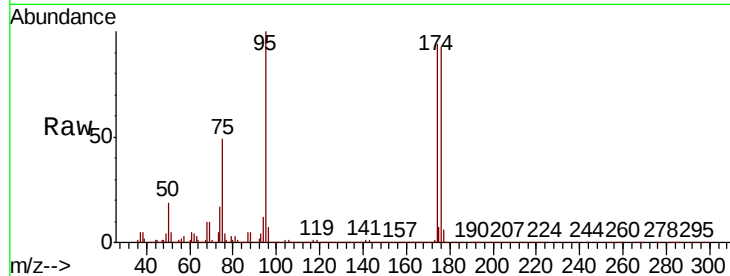




#60
4-Bromofluorobenzene
Concen: 28.765 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX0137842.D
Acq: 07 Dec 2019 15:48

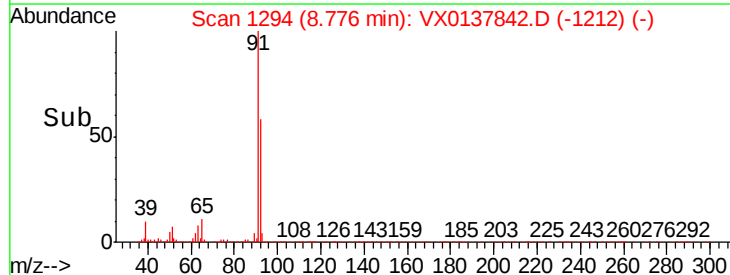
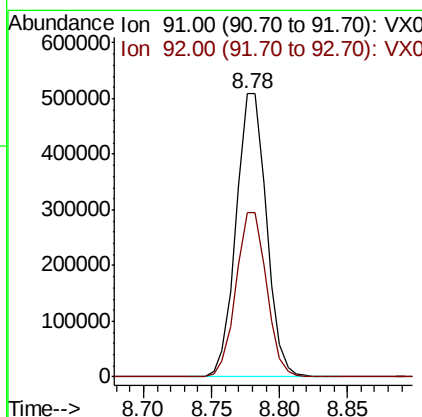
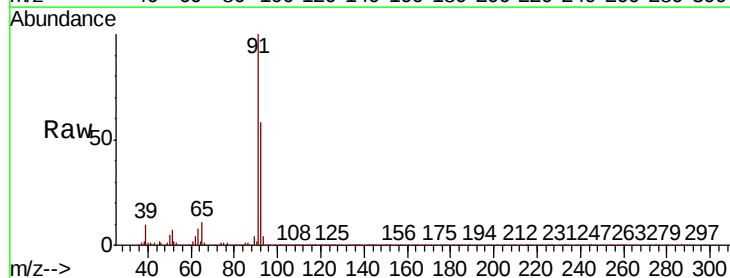
Instrument :
MSVOA_X
ClientSampleId :

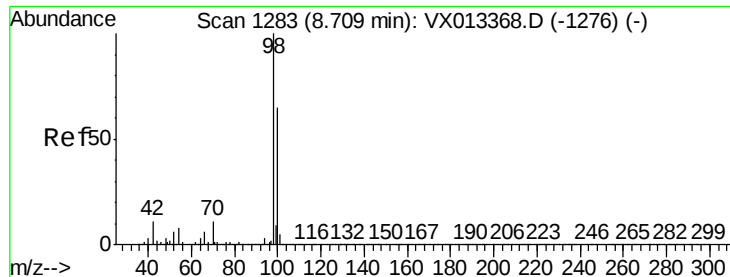
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.7	70.2	105.2
176	86.6	68.3	102.5



#62
Toluene
Concen: 30.789 ug/l
RT: 8.78 min Scan# 1294
Delta R.T. 0.00 min
Lab File: VX0137842.D
Acq: 07 Dec 2019 15:48

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.4	46.6	69.8





#63

Toluene-d8

Concen: 29.950 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX0137842.D

Acq: 07 Dec 2019 15:48

Instrument :

MSVOA_X

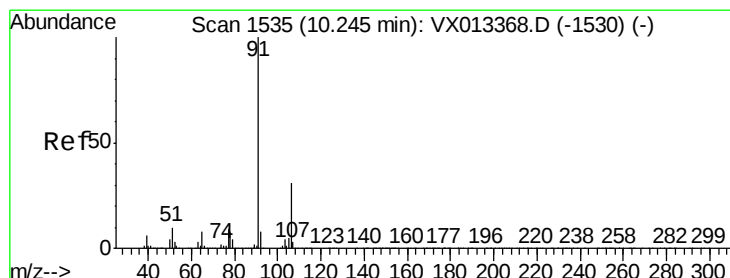
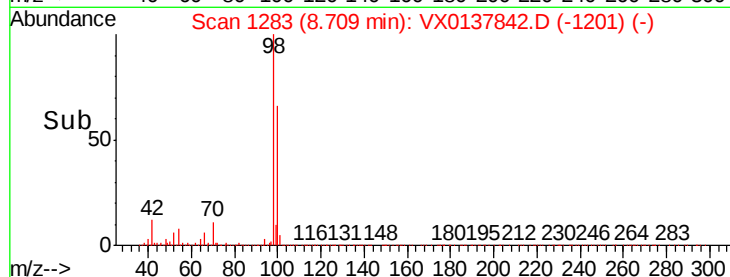
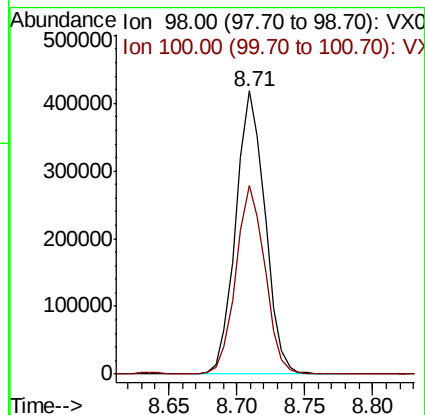
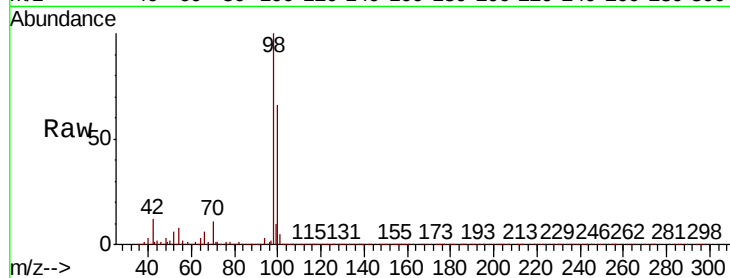
ClientSampleId :

Tot Ion: 98 Resp: 626975

Ion Ratio Lower Upper

98 100

100 65.8 52.5 78.7



#66

Ethyl Benzene

Concen: 0.690 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VX0137842.D

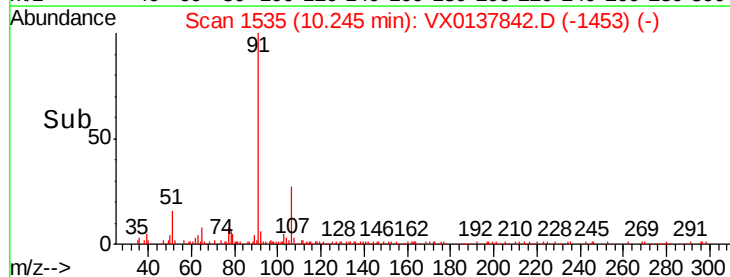
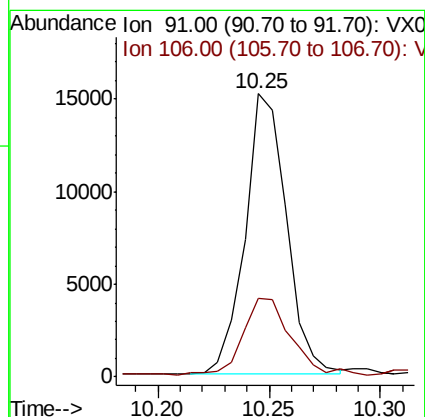
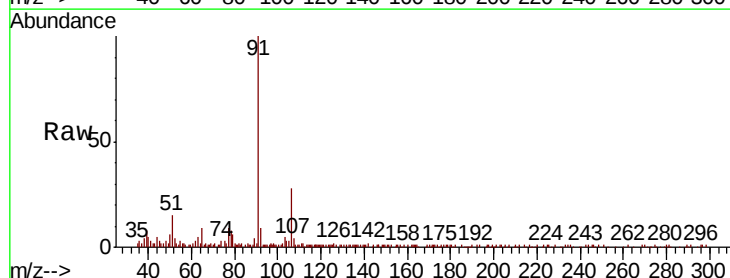
Acq: 07 Dec 2019 15:48

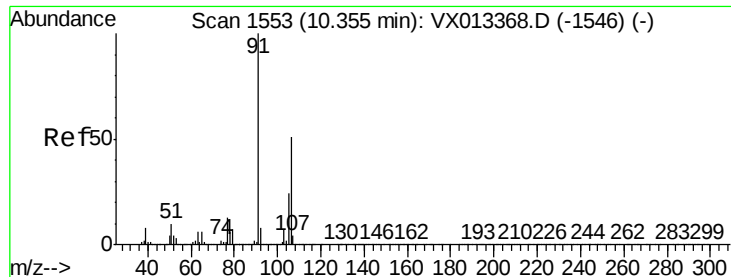
Tgt Ion: 91 Resp: 19544

Ion Ratio Lower Upper

91 100

106 26.5 25.0 37.4

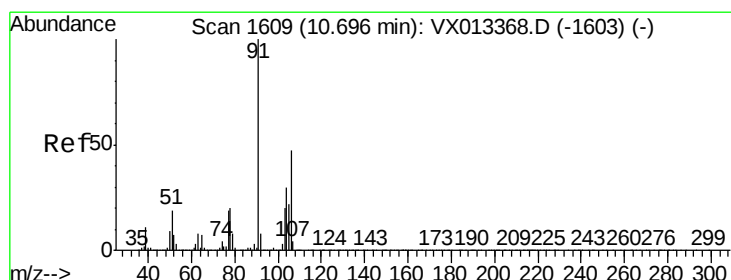
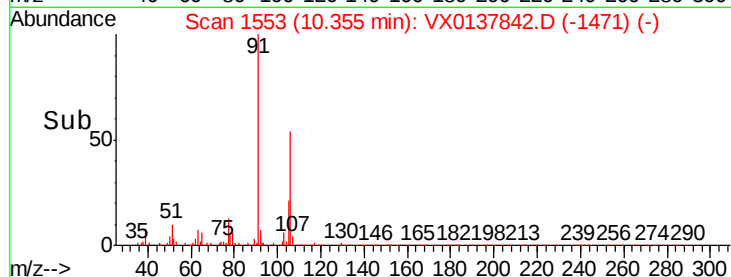
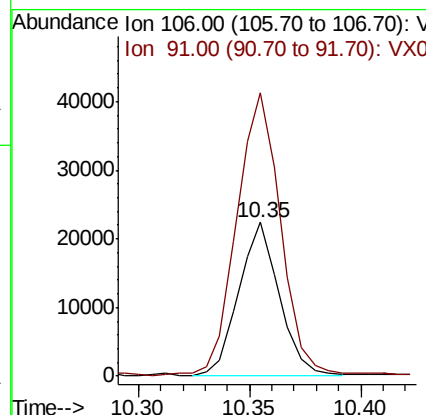
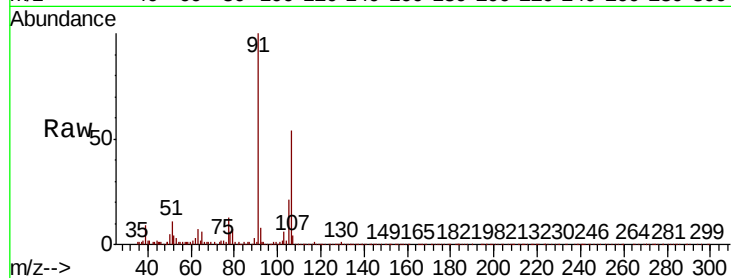




#67
m/p-Xylenes
Concen: 2.574 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX0137842.D
Acq: 07 Dec 2019 15:48

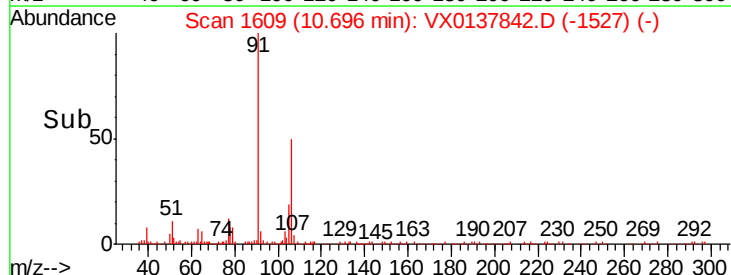
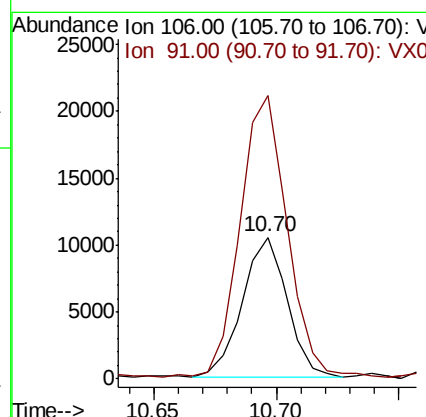
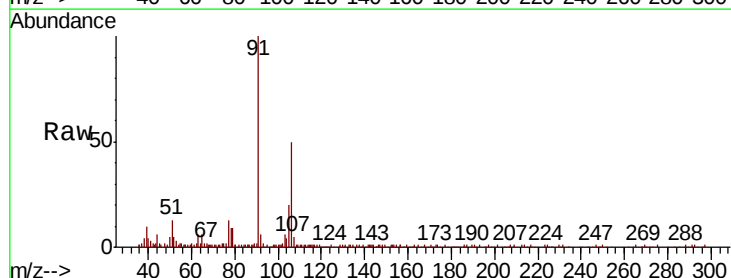
Instrument :
MSVOA_X
ClientSampleId :

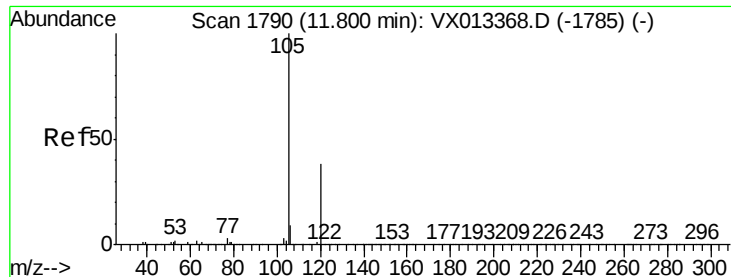
Tot Ion:106 Resp: 28123
Ion Ratio Lower Upper
106 100
91 200.3 158.4 237.6



#68
o-Xylene
Concen: 1.262 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX0137842.D
Acq: 07 Dec 2019 15:48

Tgt Ion:106 Resp: 13307
Ion Ratio Lower Upper
106 100
91 210.4 106.4 319.2

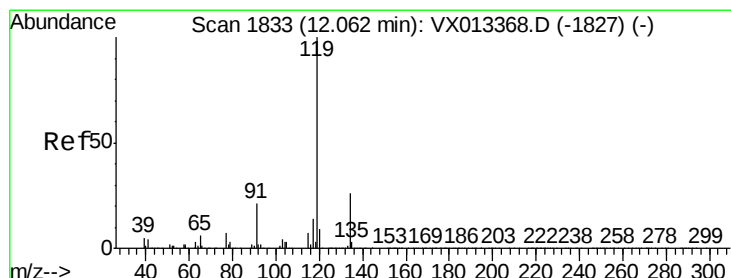
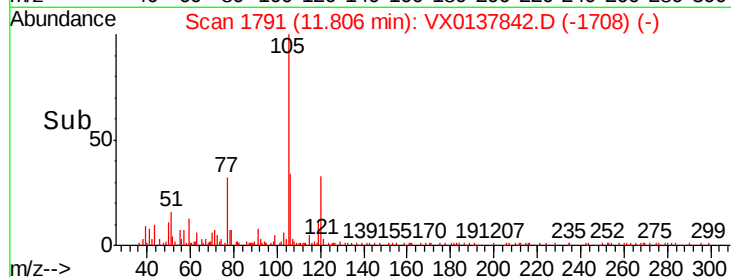
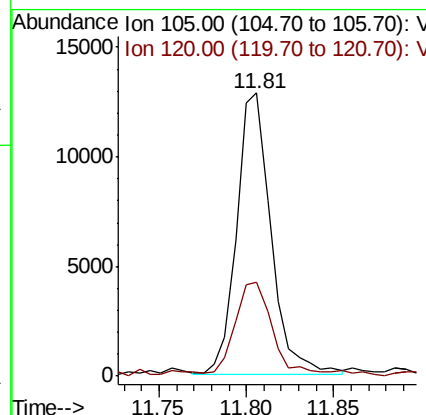
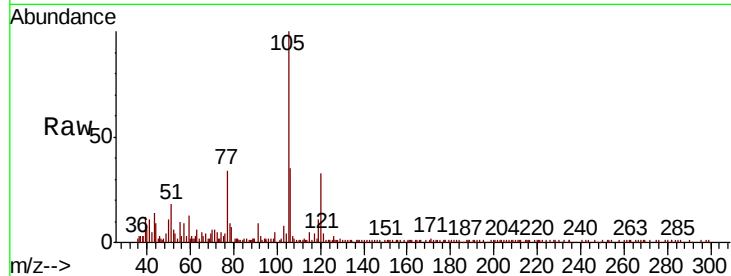




#80
 1,2,4-Trimethylbenzene
 Concen: 0.755 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. 0.01 min
 Lab File: VX0137842.D
 Acq: 07 Dec 2019 15:48

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:105 Resp: 17586
 Ion Ratio Lower Upper
 105 100
 120 33.9 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: VX0137842.D
 Acq: 07 Dec 2019 15:48

Tgt Ion:119 Resp: 8547
 Ion Ratio Lower Upper
 119 100
 134 30.1 0.0 51.6
 91 21.0 0.0 44.2

