

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120719\
 Data File : VX0137842.D
 Acq On : 07 Dec 2019 03:48 pm
 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 02:13:50 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

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

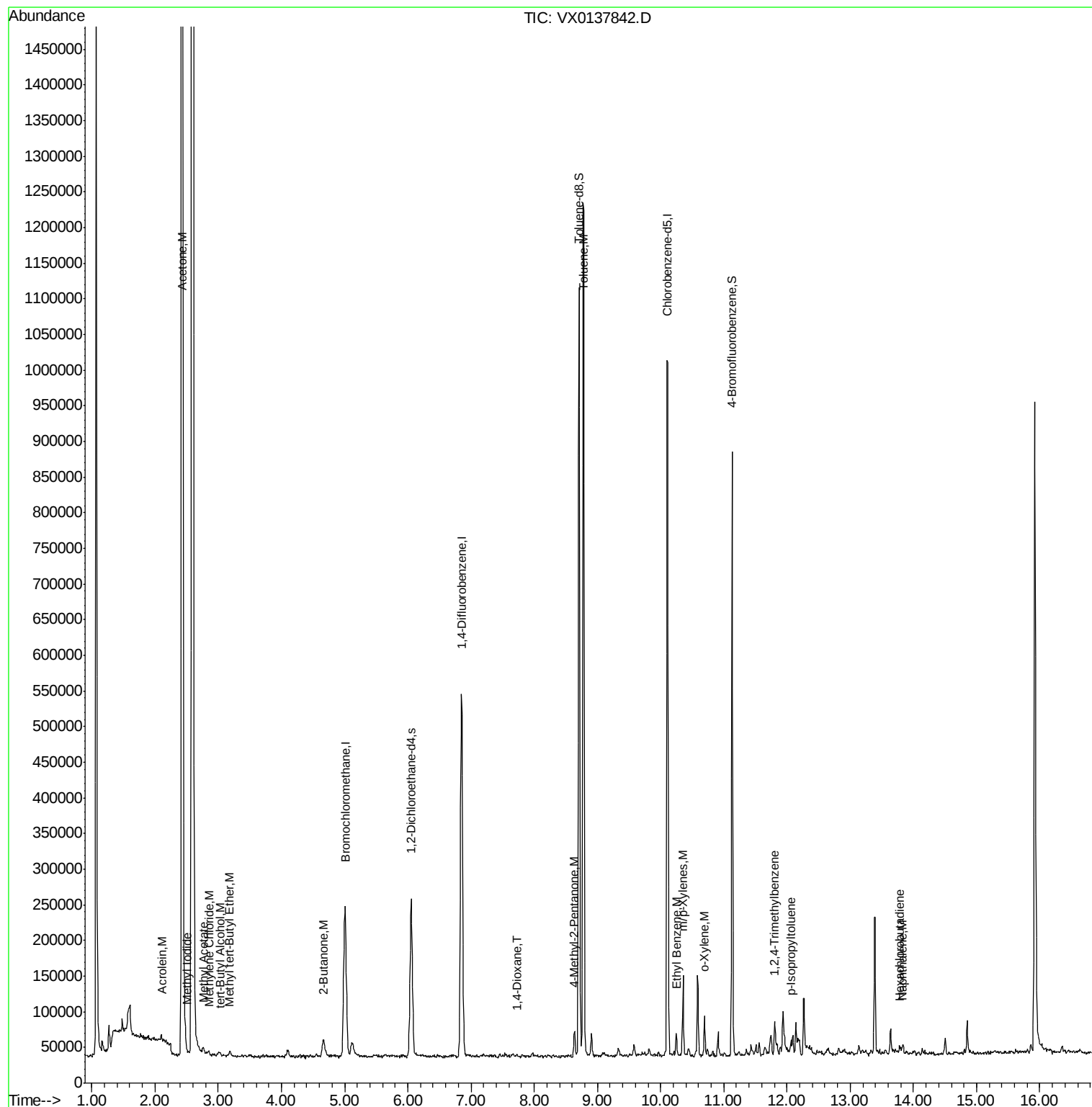
					Ovalue	
11) Methyl Iodide	2.51	142	1550	0.211	ug/l #	88
12) Methyl Acetate	2.76	43	8994	0.863	ug/l	91
13) Acrolein	2.12	56	264	0.239	ug/l	95
15) Acetone	2.43	58	993772	856.597	ug/l	95
18) Methylene Chloride	2.85	84	1473	0.218	ug/l #	79
23) tert-Butyl Alcohol	3.03	59	7185	3.898	ug/l #	94
24) Methyl tert-Butyl Ether	3.18	73	6544	0.333	ug/l #	85
30) 2-Butanone	4.67	43	46526	8.786	ug/l #	97
45) 1,4-Dioxane	7.73	88	193	1.126	ug/l #	1
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
90) Hexachlorobutadiene	13.78	225	1057	0.248	ug/l	92
91) Naphthalene	13.83	128	6022	0.214	ug/l #	90

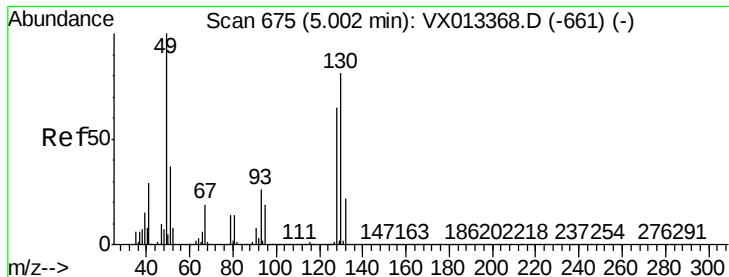
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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 03:48 pm

Instrument :

MSVOA_X

ClientSampleId :

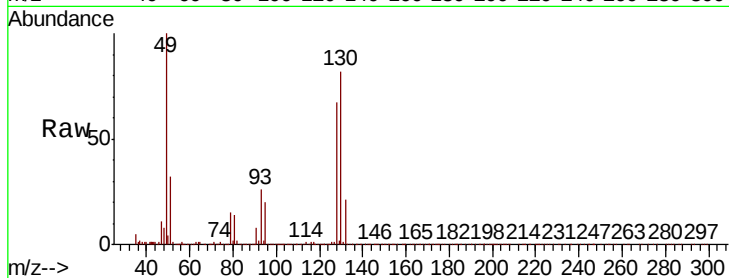
Tot Ion:128 Resp: 96255

Ion Ratio Lower Upper

128 100

49 159.1 0.0 388.3

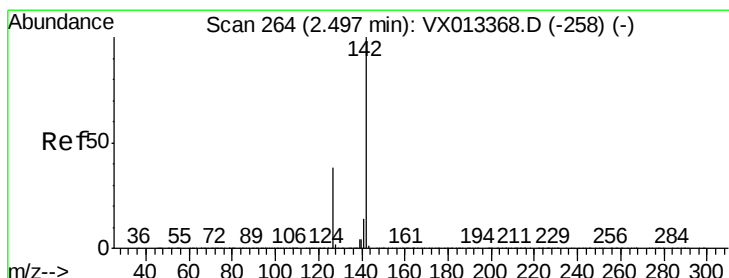
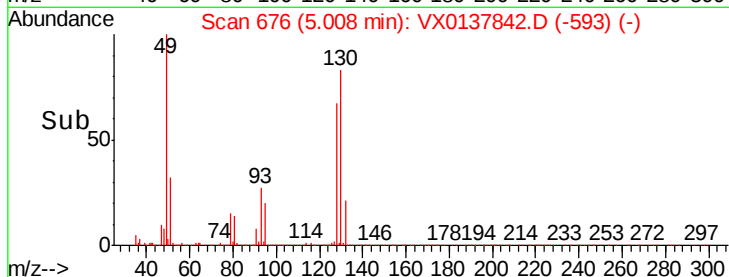
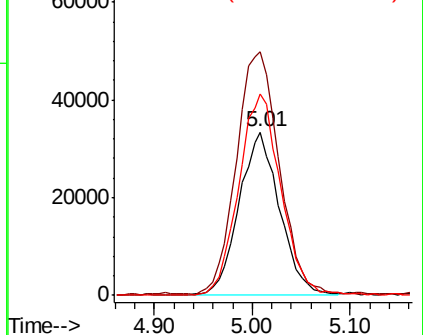
130 127.9 0.0 318.5



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



#11

Methyl Iodide

Concen: 0.211 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX0137842.D

Acq: 07 Dec 2019 03:48 pm

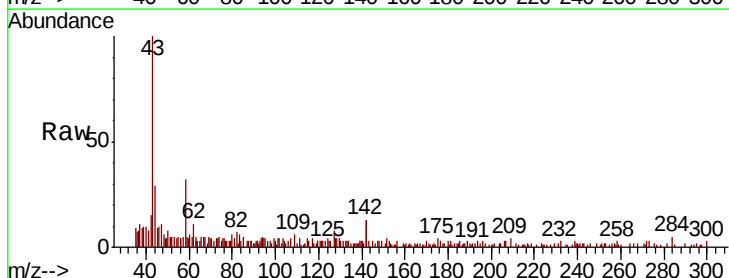
Tgt Ion:142 Resp: 1550

Ion Ratio Lower Upper

142 100

127 36.4 19.1 57.5

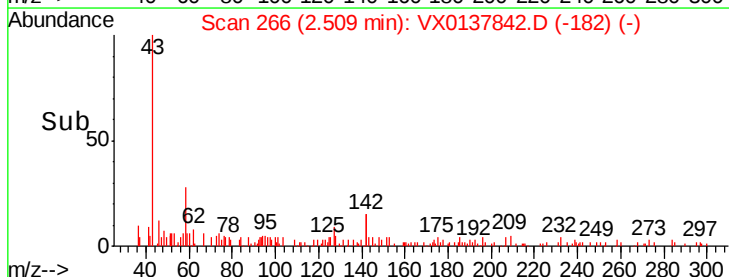
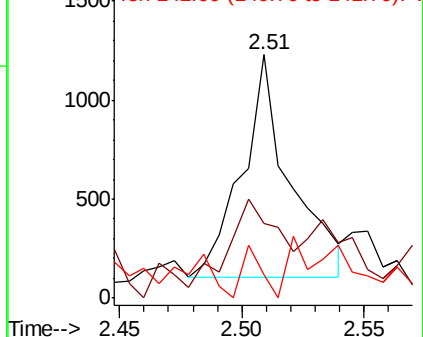
141 0.0 7.0 21.0#

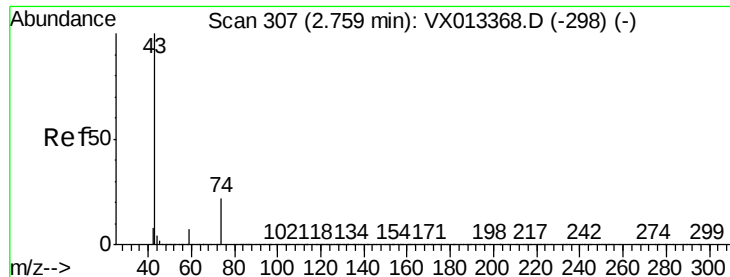


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

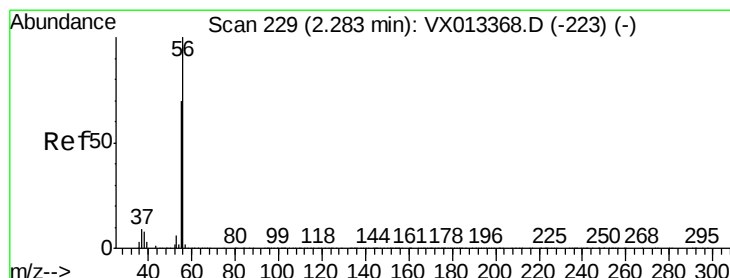
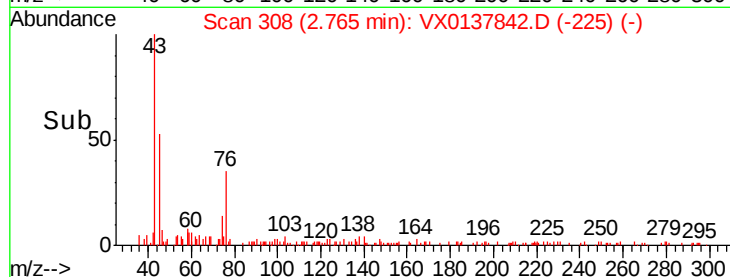
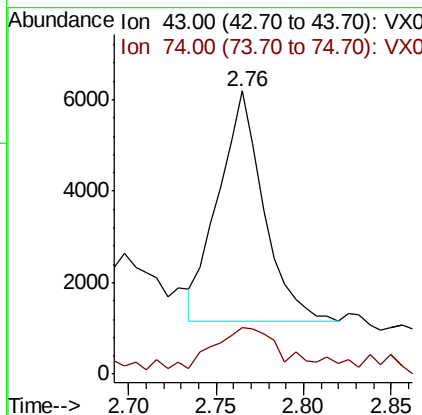
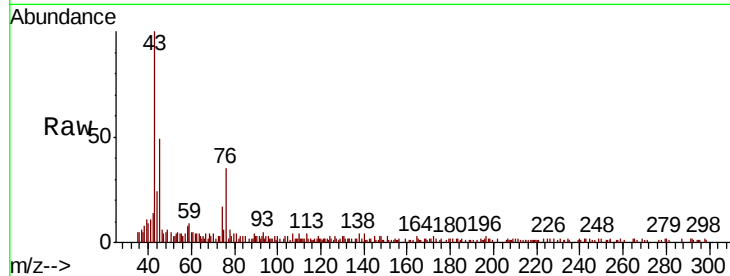




#12
Methvl Acetate
Concen: 0.863 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.01 min
Lab File: VX0137842.D
Acq: 07 Dec 2019 03:48 pm

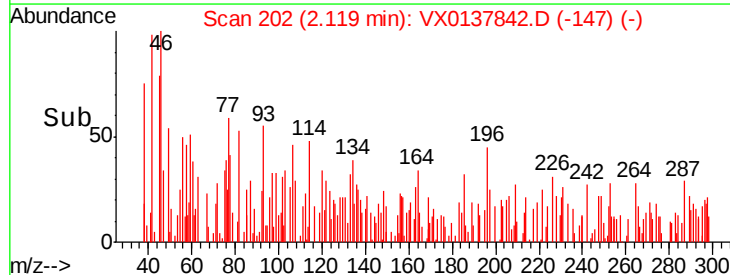
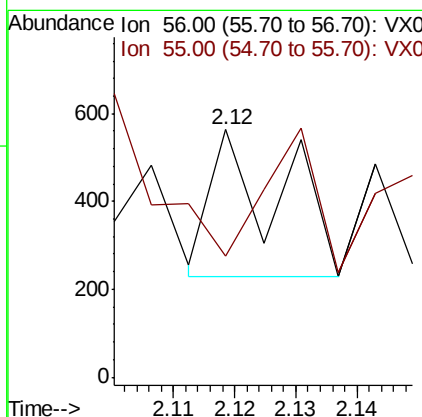
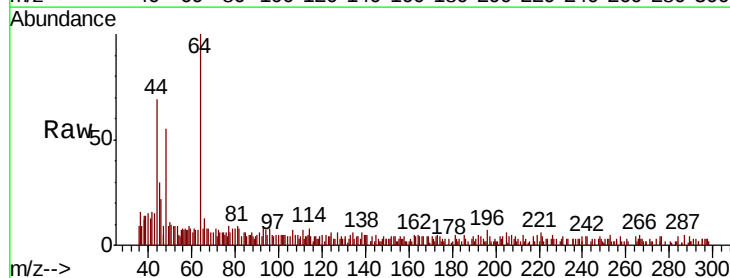
Instrument :
MSVOA_X
ClientSampleId :

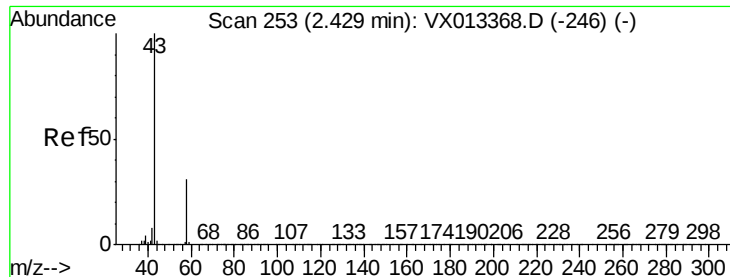
Tot Ion: 43 Resp: 8994
Ion Ratio Lower Upper
43 100
74 18.1 18.0 27.0



#13
Acrolein
Concen: 0.239 ug/l
RT: 2.12 min Scan# 202
Delta R.T. -0.16 min
Lab File: VX0137842.D
Acq: 07 Dec 2019 03:48 pm

Tgt Ion: 56 Resp: 264
Ion Ratio Lower Upper
56 100
55 73.9 55.8 83.8





#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 03:48 pm

Instrument :

MSVOA_X

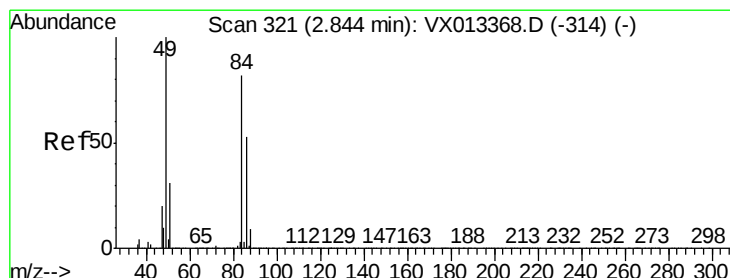
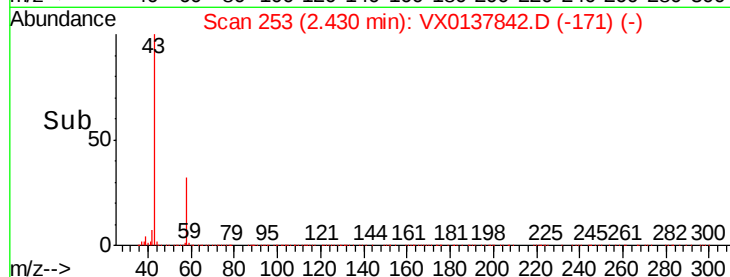
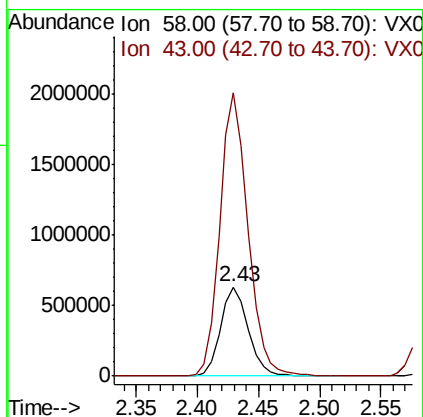
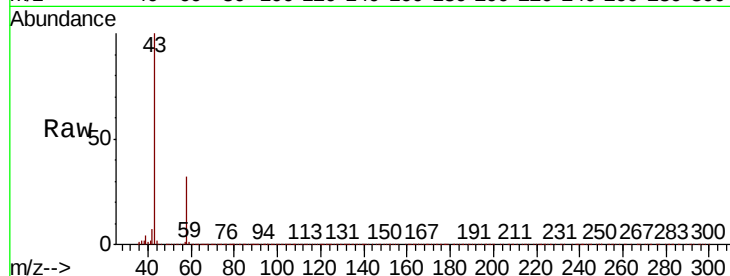
ClientSampleId :

Tot Ion: 58 Resp: 993772

Ion Ratio Lower Upper

58 100

43 317.0 261.4 392.2



#18

Methylene Chloride

Concen: 0.218 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX0137842.D

Acq: 07 Dec 2019 03:48 pm

Tgt Ion: 84 Resp: 1473

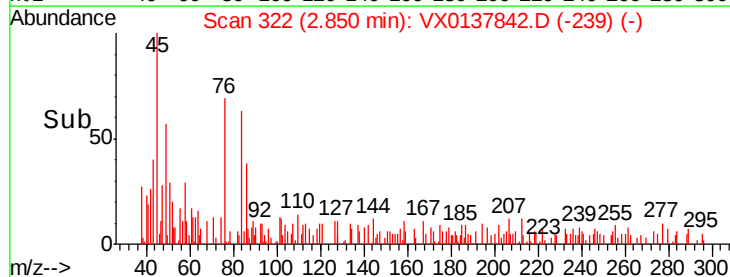
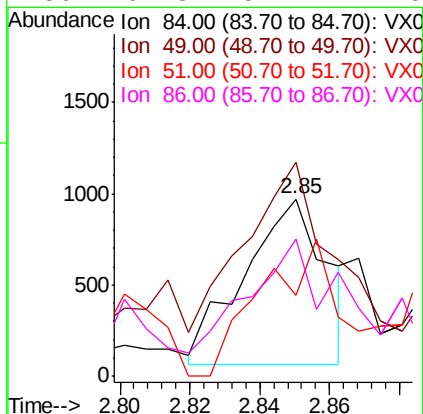
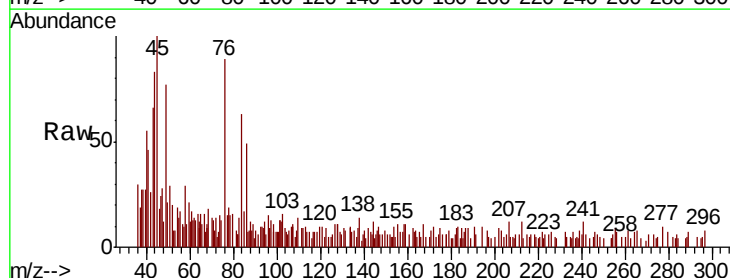
Ion Ratio Lower Upper

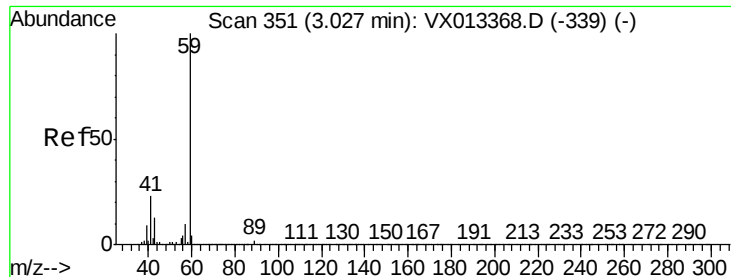
84 100

49 90.9 96.8 145.2#

51 18.5 30.0 45.0#

86 62.3 51.7 77.5





#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 03:48 pm

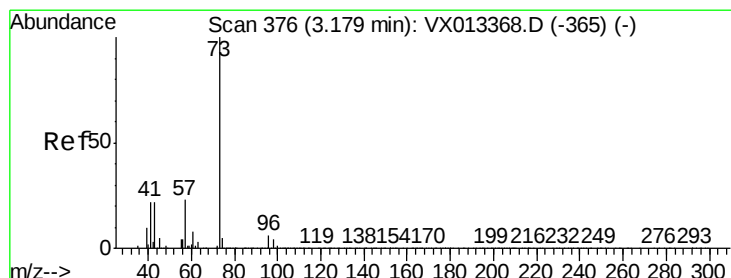
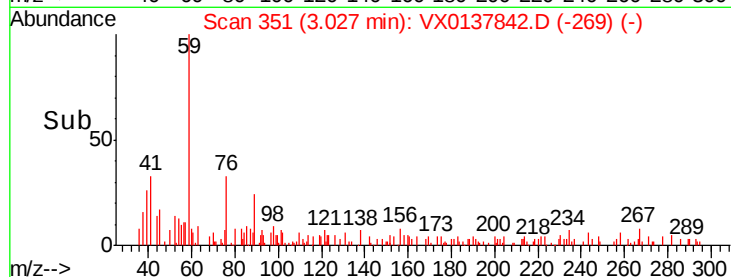
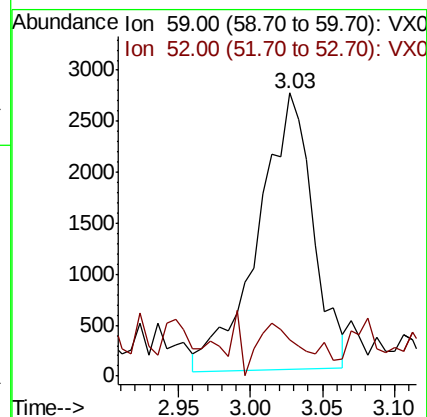
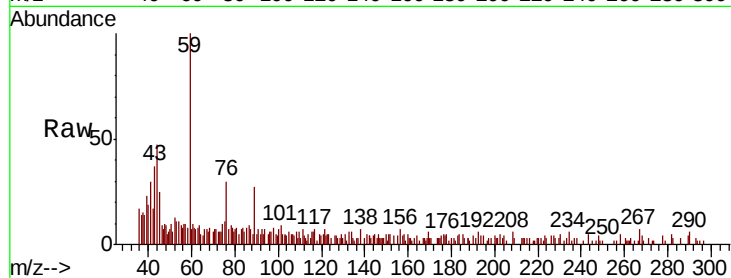
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 59 Resp: 7185

Ion Ratio Lower Upper

59 100

52 14.2 0.1 0.1#



#24

Methyl tert-Butyl Ether

Concen: 0.333 ug/l

RT: 3.18 min Scan# 376

Delta R.T. 0.00 min

Lab File: VX0137842.D

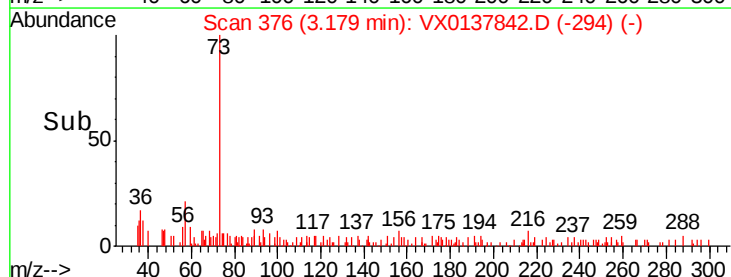
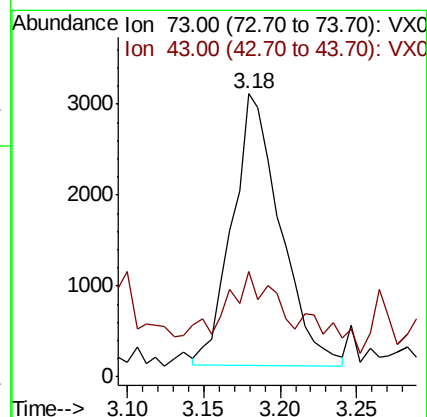
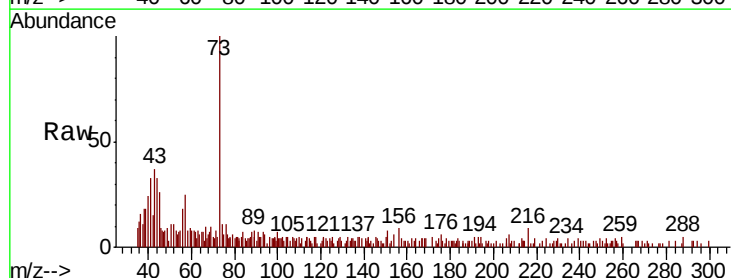
Acq: 07 Dec 2019 03:48 pm

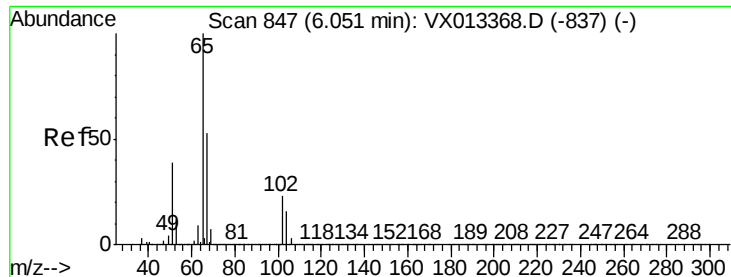
Tgt Ion: 73 Resp: 6544

Ion Ratio Lower Upper

73 100

43 14.3 17.0 25.6#





#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 03:48 pm

Instrument :

MSVOA_X

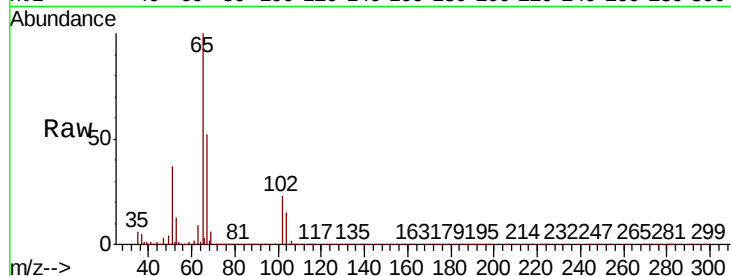
ClientSampleId :

Tot Ion: 65 Resp: 205262

Ion Ratio Lower Upper

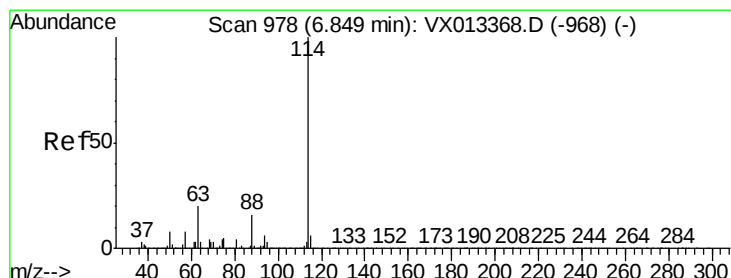
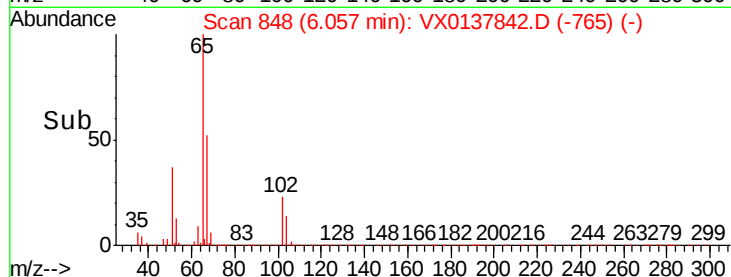
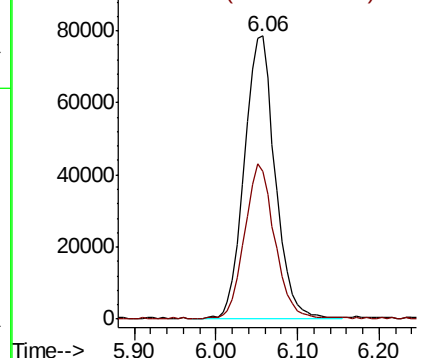
65 100

67 53.4 41.0 61.6



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#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 03:48 pm

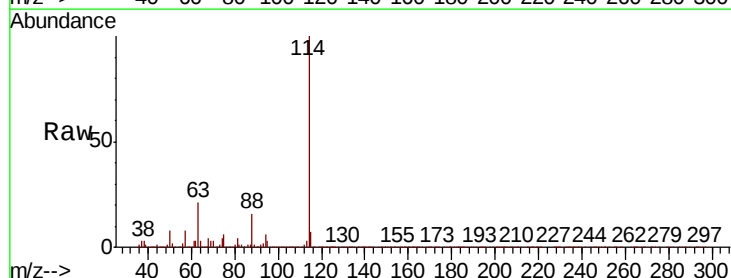
Tgt Ion: 114 Resp: 525274

Ion Ratio Lower Upper

114 100

63 20.4 16.1 24.1

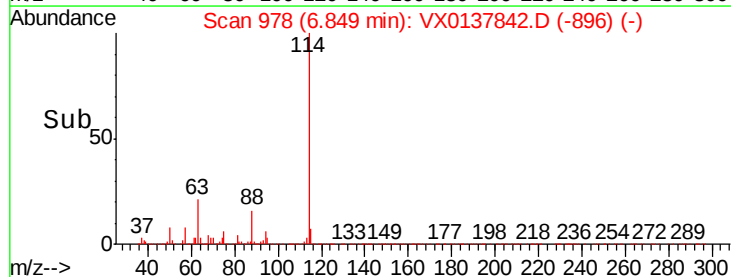
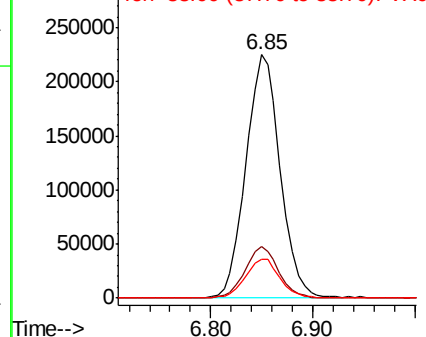
88 16.1 12.3 18.5

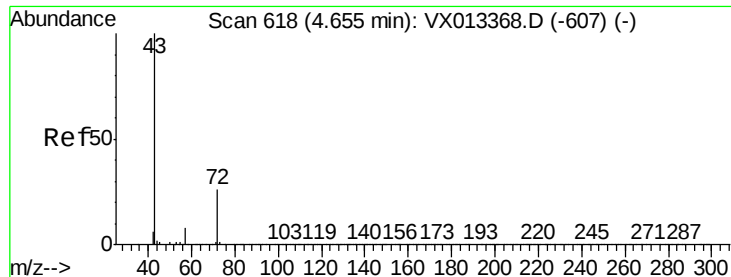


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

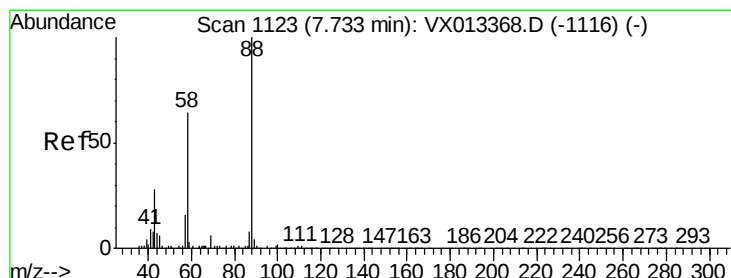
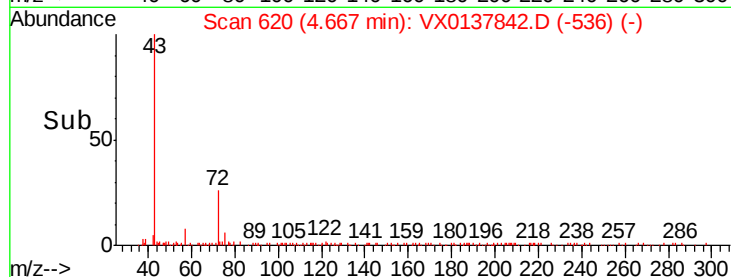
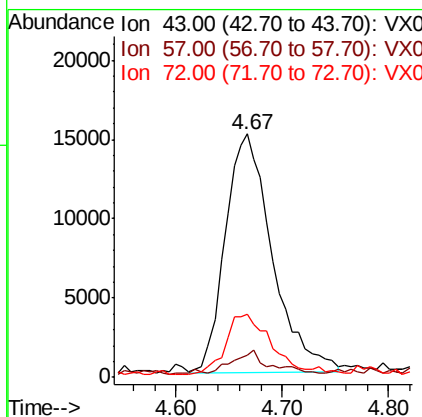
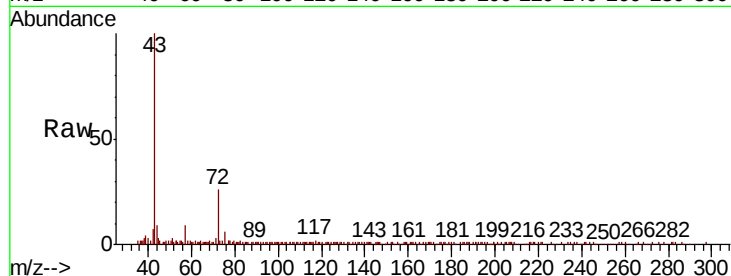




#30
 2-Butanone
 Concen: 8.786 ug/l
 RT: 4.67 min Scan# 620
 Delta R.T. 0.01 min
 Lab File: VX0137842.D
 Acq: 07 Dec 2019 03:48 pm

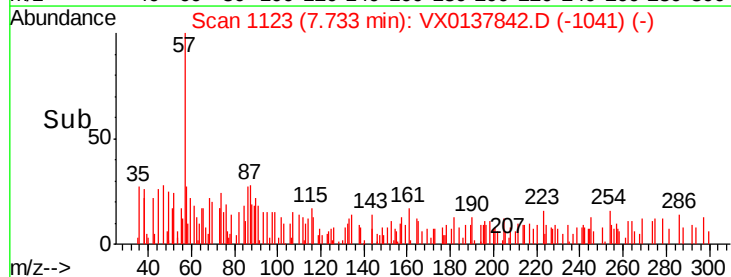
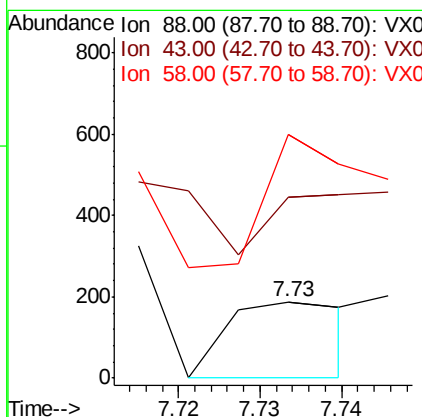
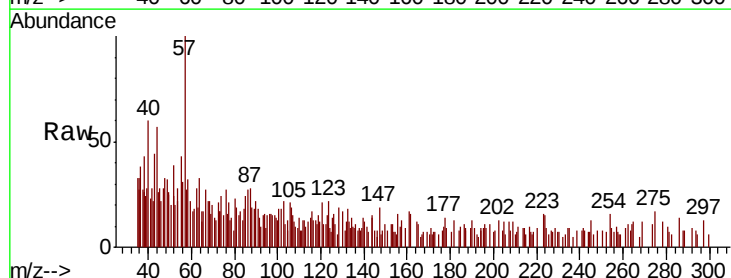
Instrument :
 MSVOA_X
 ClientSampleId :

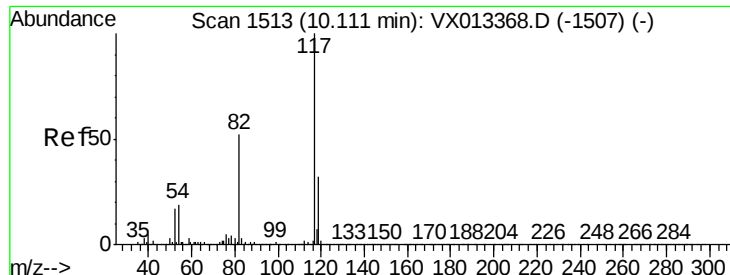
Tot Ion: 43 Resp: 46526
 Ion Ratio Lower Upper
 43 100
 57 6.1 6.1 9.1#
 72 24.2 20.5 30.7



#45
 1,4-Dioxane
 Concen: 1.126 ug/l
 RT: 7.73 min Scan# 1123
 Delta R.T. 0.00 min
 Lab File: VX0137842.D
 Acq: 07 Dec 2019 03:48 pm

Tgt Ion: 88 Resp: 193
 Ion Ratio Lower Upper
 88 100
 43 0.0 26.1 39.1#
 58 251.3 55.8 83.8#

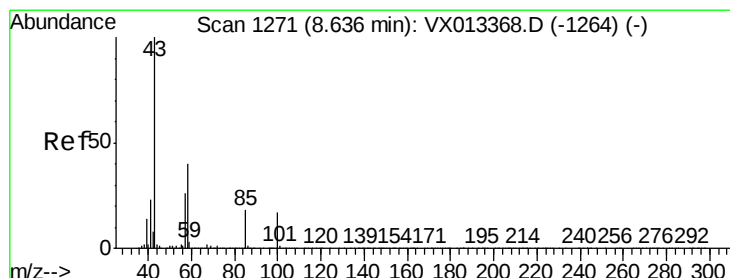
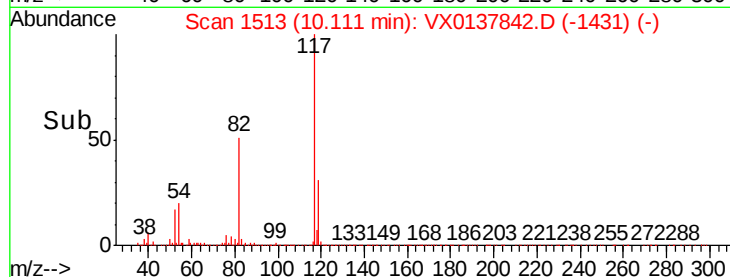
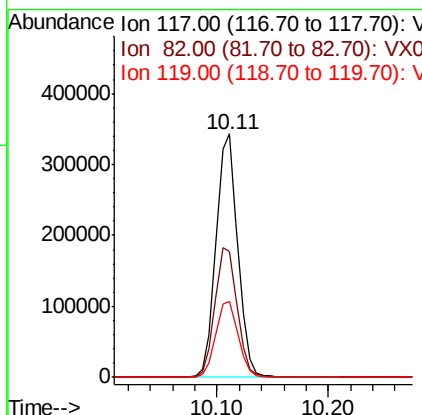
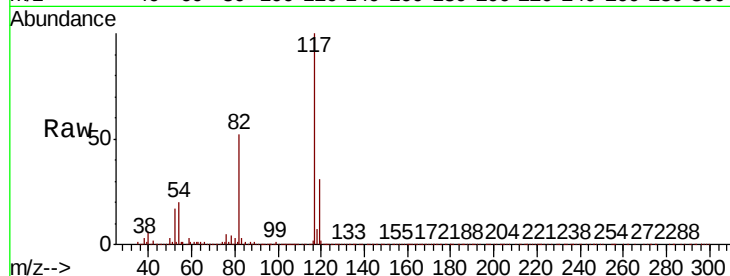




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX0137842.D
Acq: 07 Dec 2019 03:48 pm

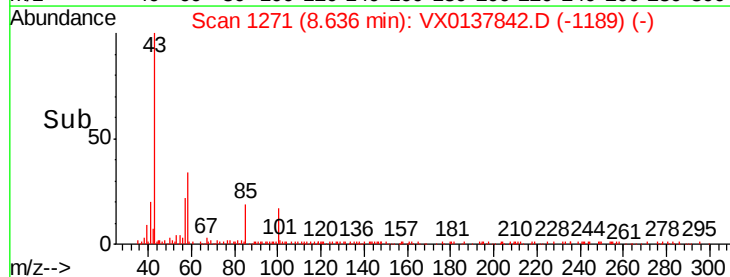
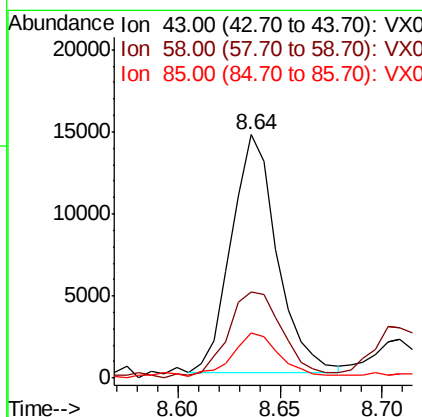
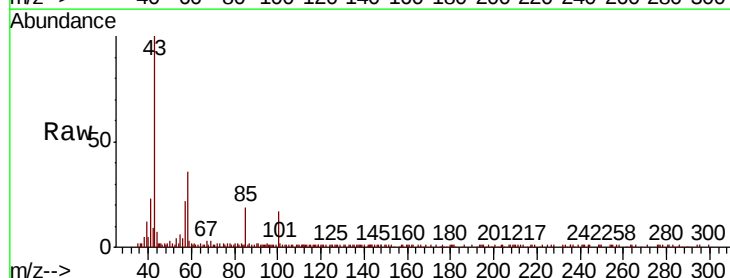
Instrument :
MSVOA_X
ClientSampleId :

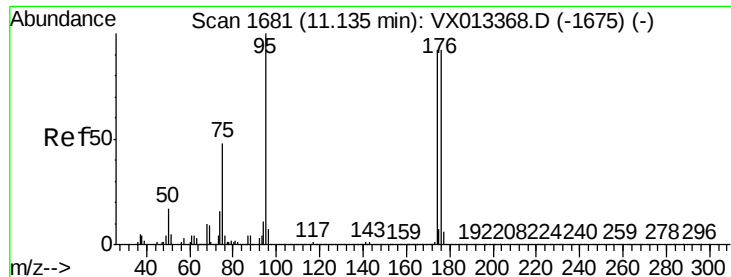
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.3	43.7	65.5
119	32.3	25.5	38.3



#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 03:48 pm

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

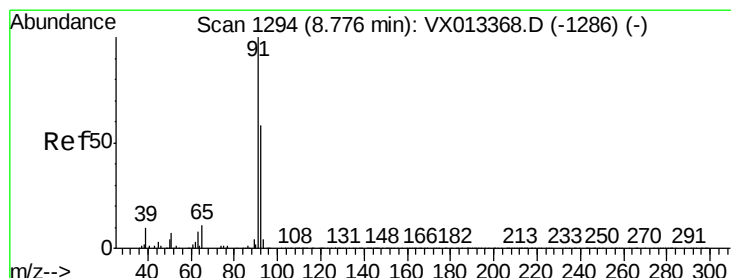
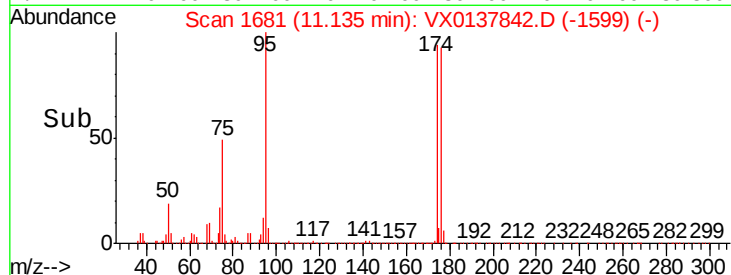
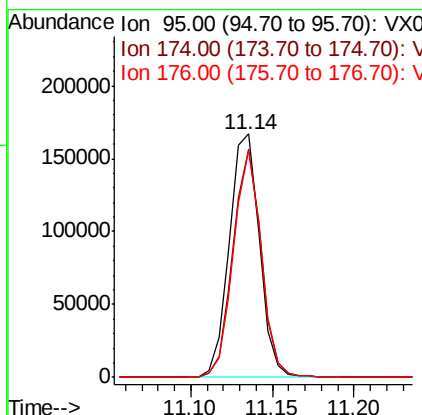
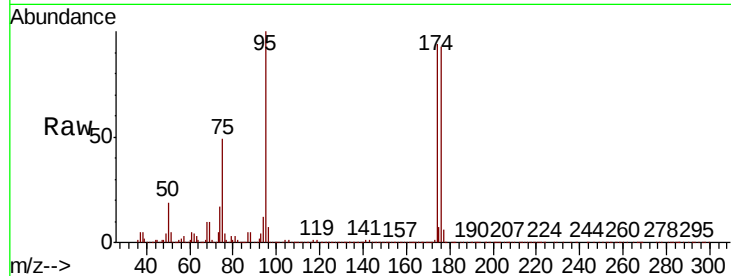




#60
4-Bromofluorobenzene
Concen: 28.765 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX0137842.D
Acq: 07 Dec 2019 03:48 pm

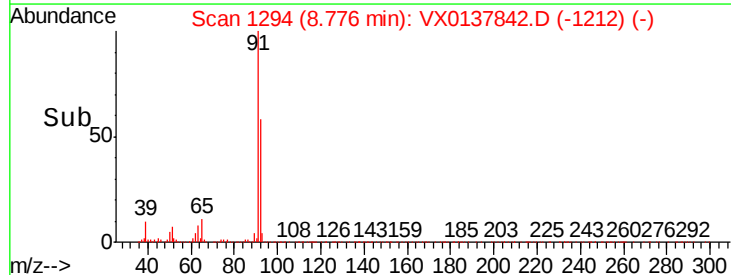
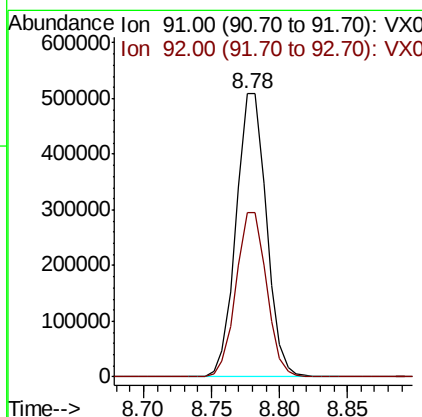
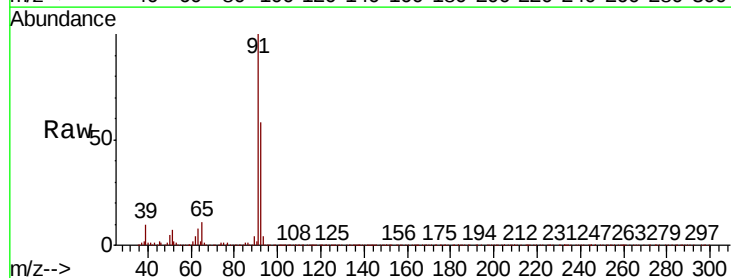
Instrument :
MSVOA_X
ClientSampleId :

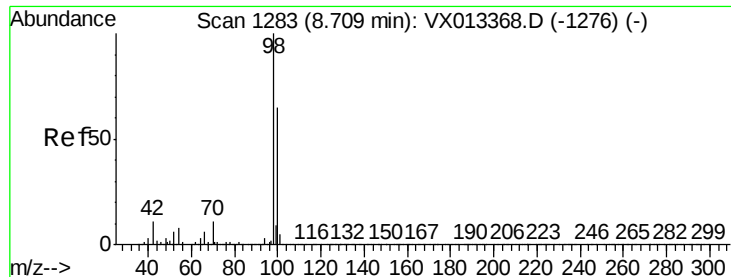
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.7	70.2	105.2
176	86.6	68.3	102.5



#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 03:48 pm

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 03:48 pm

Instrument :

MSVOA_X

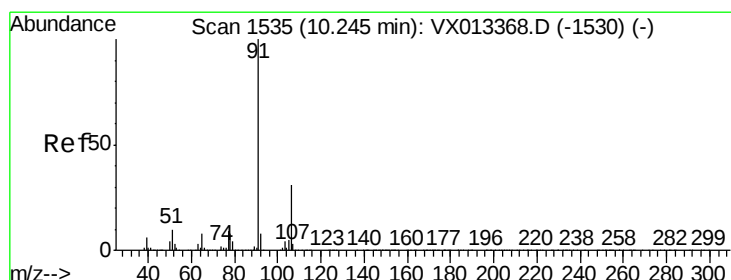
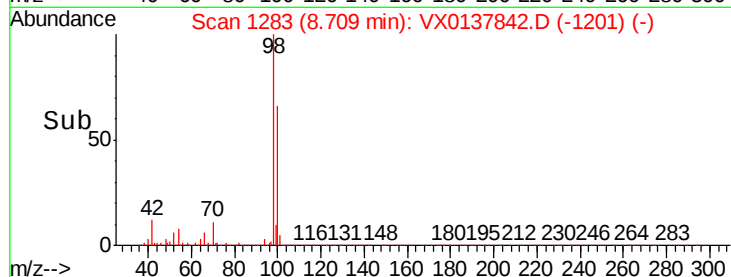
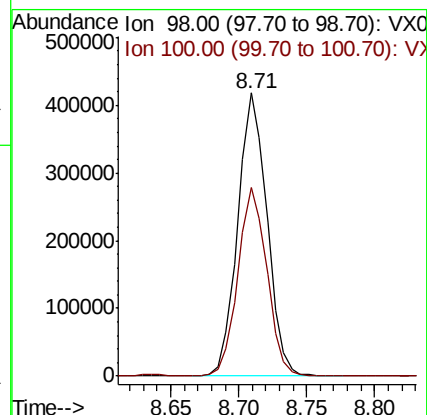
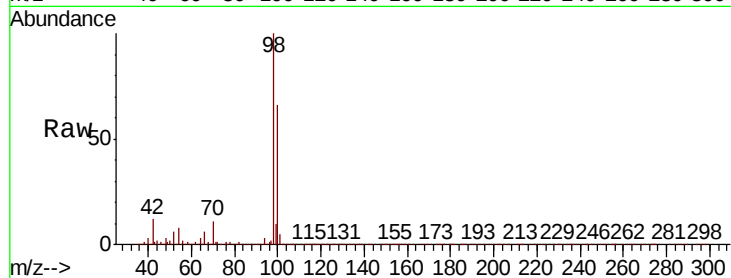
ClientSampleId :

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

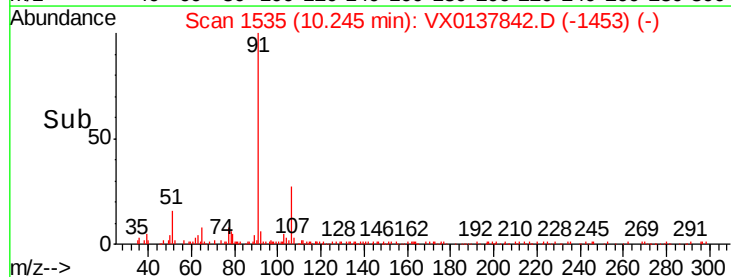
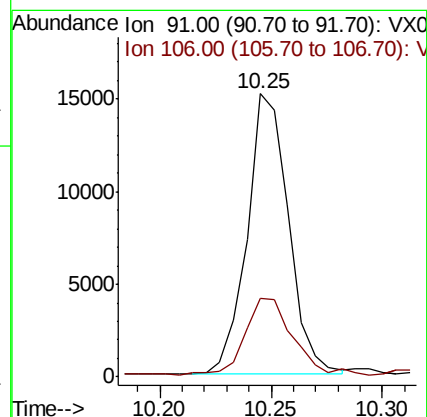
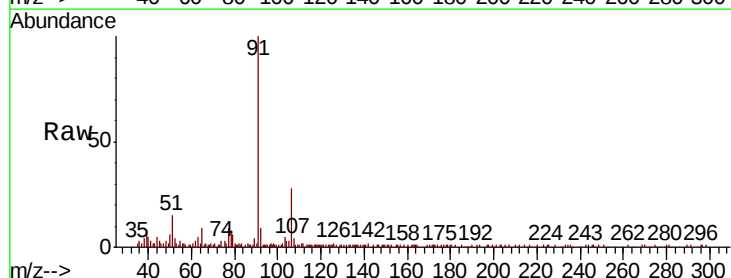
Acq: 07 Dec 2019 03:48 pm

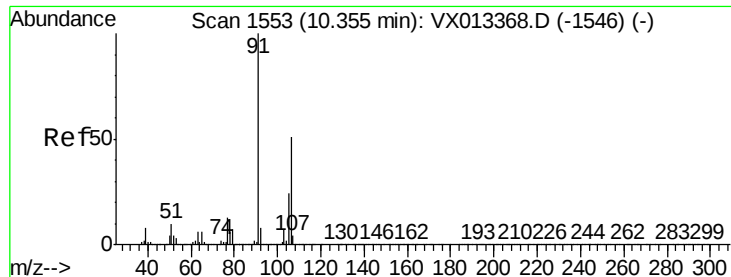
Tgt Ion: 91 Resp: 19544

Ion Ratio Lower Upper

91 100

106 26.5 25.0 37.4

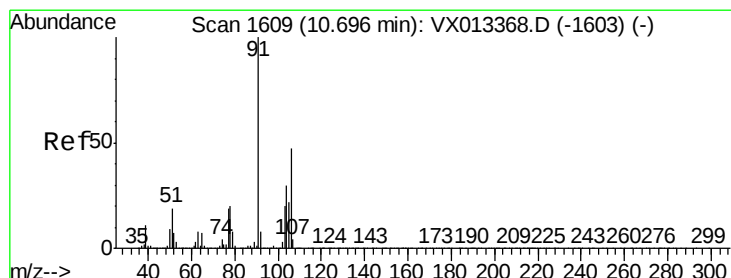
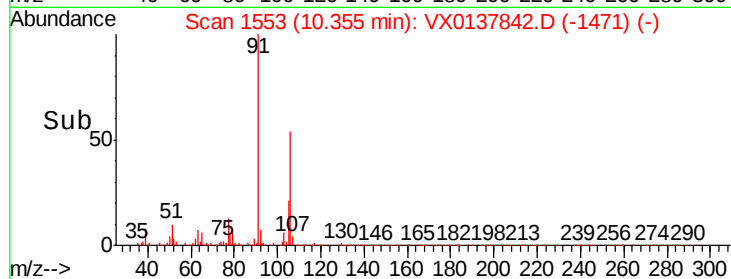
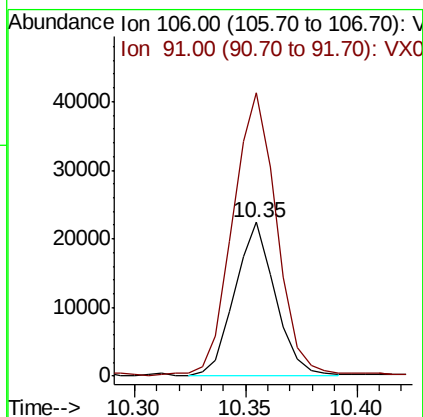
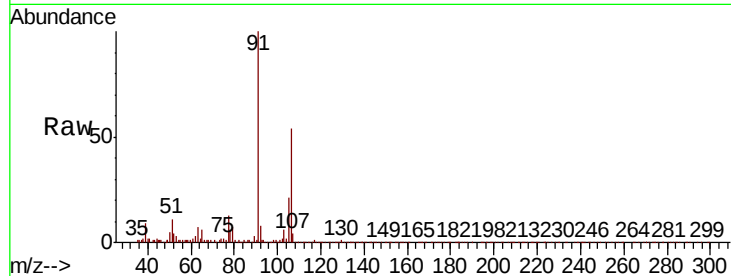




#67
m/p-Xylenes
Concen: 2.574 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX0137842.D
Acq: 07 Dec 2019 03:48 pm

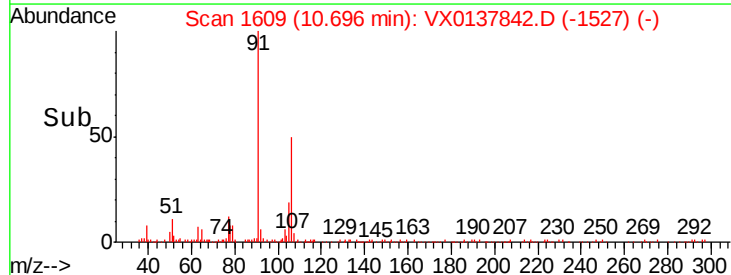
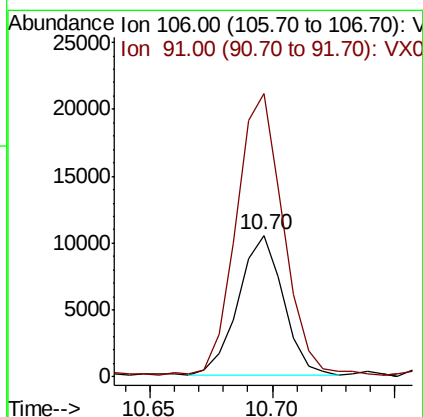
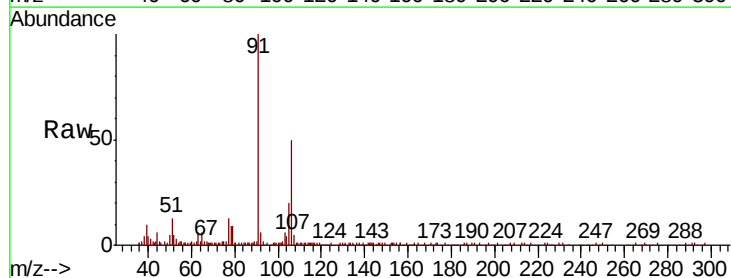
Instrument :
MSVOA_X
ClientSampleId :

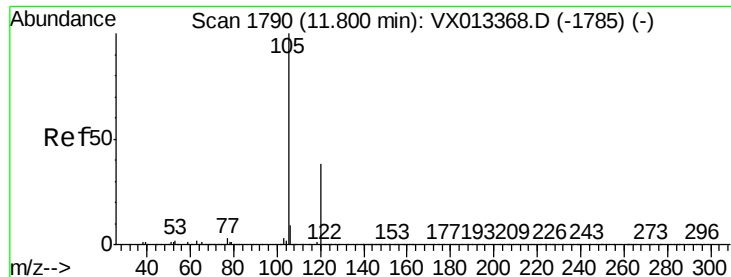
Tot Ion:106 Resp: 28123
Ion Ratio Lower Upper
106 100
91 200.3 158.4 237.6



#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 03:48 pm

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

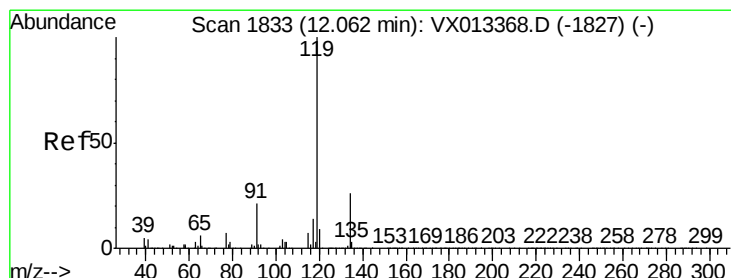
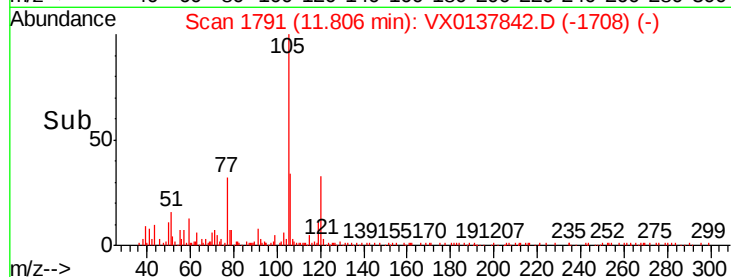
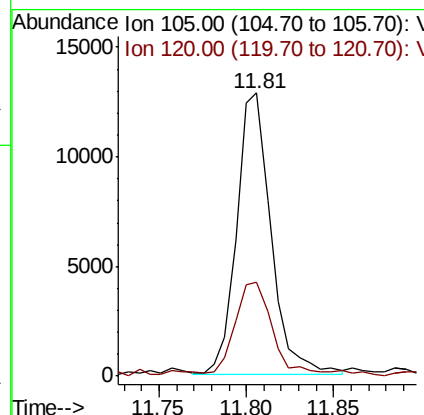
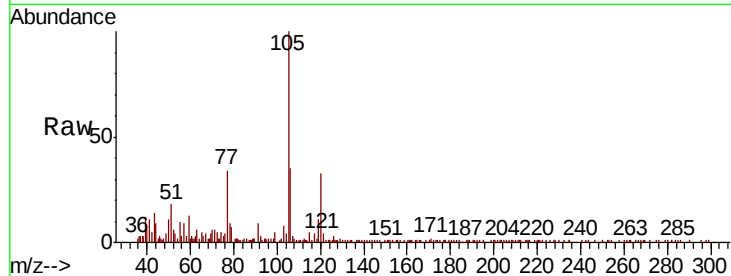




#80
 1,2,4-Trimethylbenzene
 Concen: 0.755 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. 0.01 min
 Lab File: VX0137842.D
 Acq: 07 Dec 2019 03:48 pm

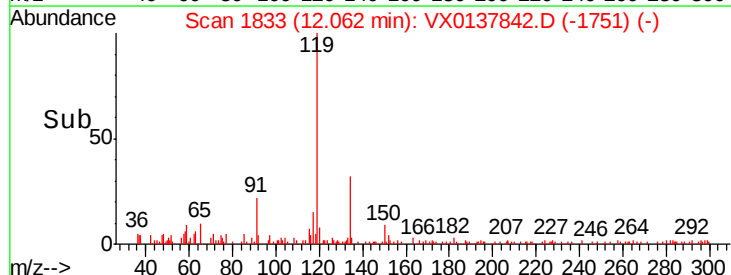
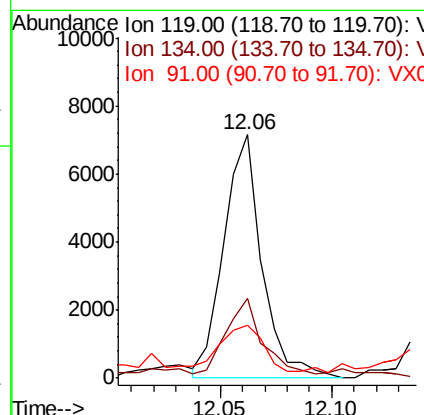
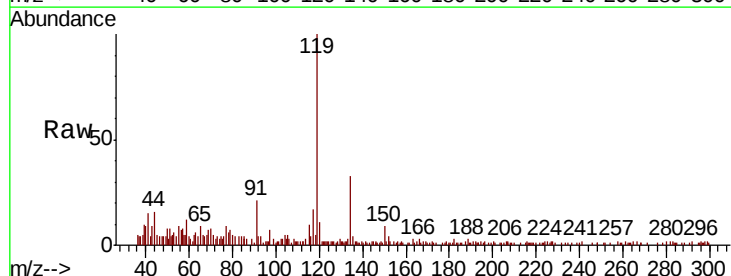
Instrument :
 MSVOA_X
 ClientSampleId :

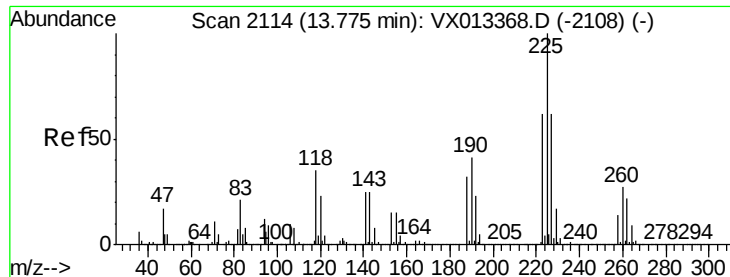
Tot Ion:105 Resp: 17586
 Ion Ratio Lower Upper
 105 100
 120 33.9 0.0 94.0



#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 03:48 pm

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

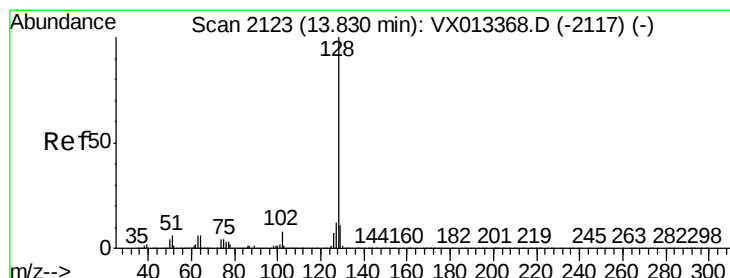
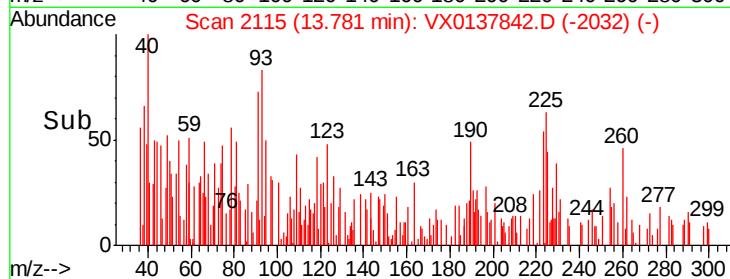
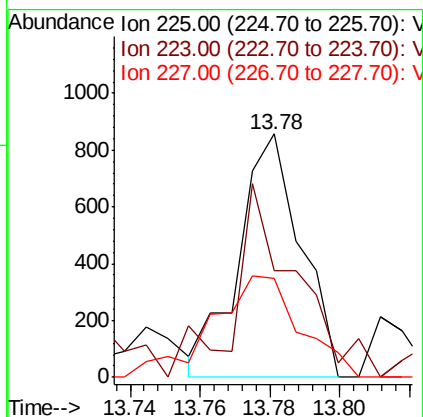
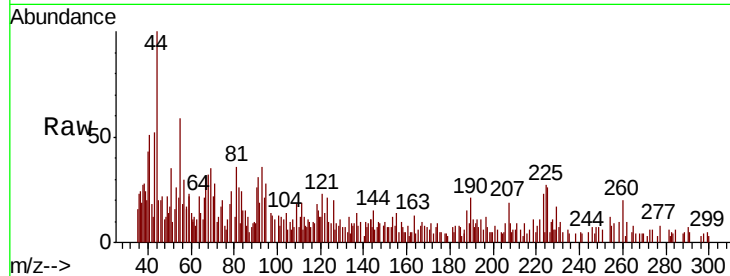




#90
Hexachlorobutadiene
Concen: 0.248 ug/l
RT: 13.78 min Scan# 2115
Delta R.T. 0.01 min
Lab File: VX0137842.D
Acq: 07 Dec 2019 03:48 pm

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:225 Resp: 1057
Ion Ratio Lower Upper
225 100
223 65.9 0.0 123.0
227 53.2 0.0 121.8



#91
Naphthalene
Concen: 0.214 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX0137842.D
Acq: 07 Dec 2019 03:48 pm

Tgt Ion:128 Resp: 6022
Ion Ratio Lower Upper
128 100
127 17.6 10.2 15.2#
129 13.9 8.8 13.2#

