

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062019\
 Data File : VX010359.D
 Acq On : 20 Jun 2019 16:01
 Operator : JC/SP
 Sample : K3469-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 01:22:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	313195	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	481083	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	417909	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	192742	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	145007	49.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.76%	
35) Dibromofluoromethane	5.50	113	146502	49.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.54%	
50) Toluene-d8	8.71	98	550310	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
62) 4-Bromofluorobenzene	11.13	95	184107	45.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.56%	

Target Compounds

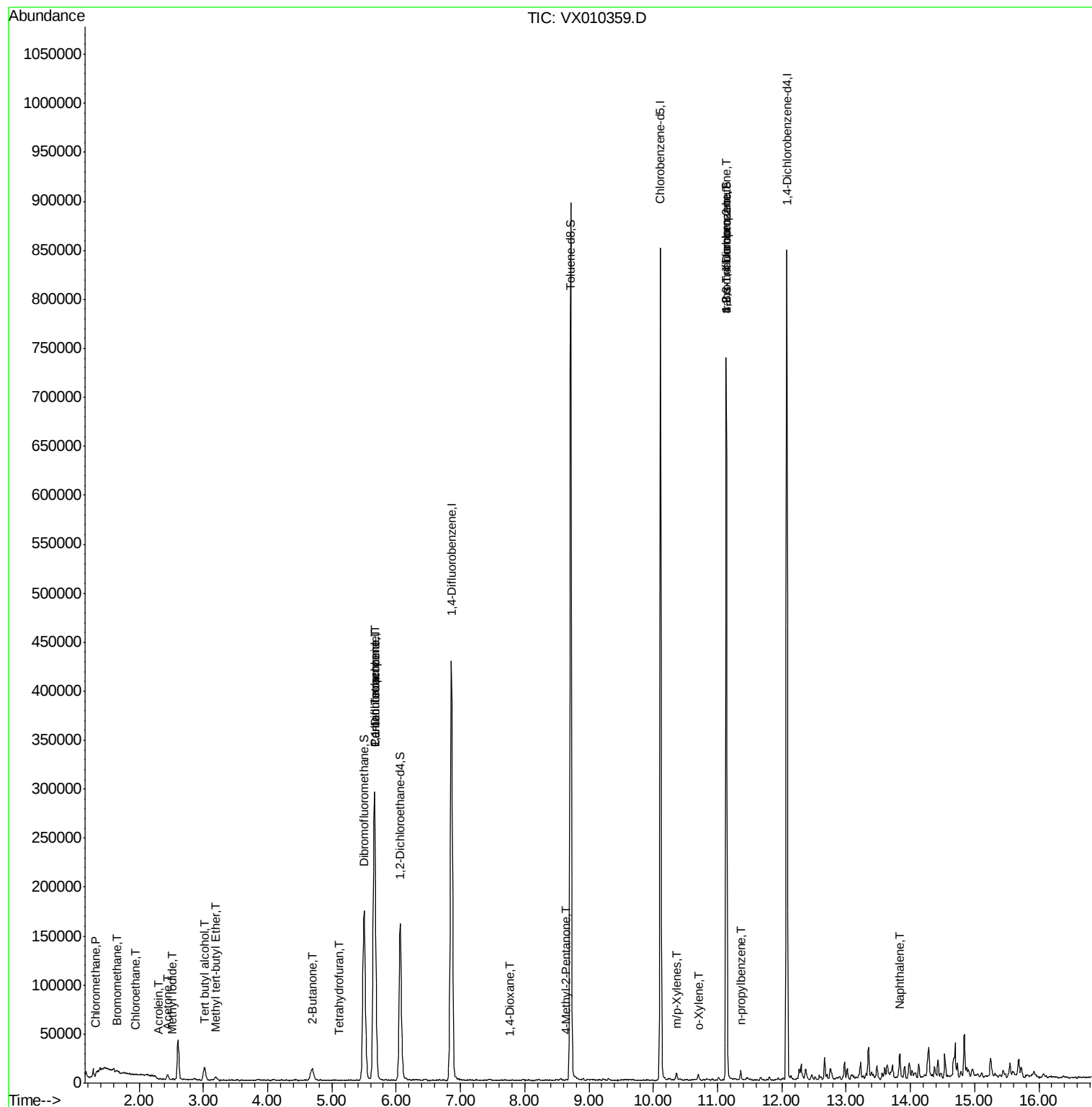
					Qvalue	
3) Chloromethane	1.32	50	993	0.392	ug/l	96
5) Bromomethane	1.65	94	833	0.616	ug/l #	54
6) Chloroethane	1.95	64	329	0.201	ug/l #	41
10) Methyl Iodide	2.51	142	1090	0.286	ug/l	99
11) Tert butyl alcohol	3.03	59	8006	10.419	ug/l #	80
13) Acrolein	2.31	56	250	0.490	ug/l	93
16) Acetone	2.45	43	6510	4.423	ug/l	95
19) Methyl tert-butyl Ether	3.19	73	3783	0.443	ug/l #	90
25) 2-Butanone	4.69	43	759	0.352	ug/l #	46
29) Tetrahydrofuran	5.12	42	293	0.219	ug/l #	38
36) 1,1-Dichloropropene	5.66	75	18809	4.920	ug/l #	49
38) Carbon Tetrachloride	5.66	117	27401	6.619	ug/l #	15
49) 1,4-Dioxane	7.77	88	26	0.298	ug/l #	65
51) 4-Methyl-2-Pentanone	8.64	43	917	0.220	ug/l	92
68) m/p-Xylenes	10.37	106	1424	0.257	ug/l	74
69) o-Xylene	10.70	106	1369	0.251	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	86926	24.749	ug/l #	33
78) n-propylbenzene	11.36	91	5757	0.401	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	86926	57.737	ug/l #	16
95) Naphthalene	13.83	128	16836	1.248	ug/l #	95

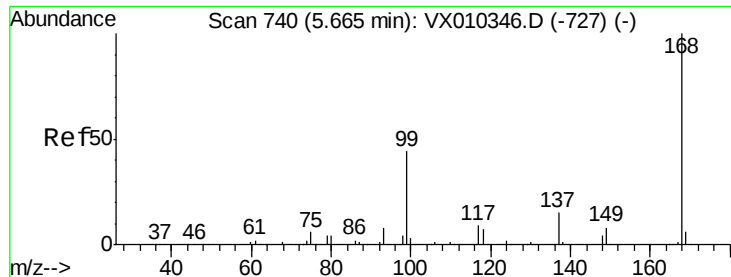
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010359.D

Acq: 20 Jun 2019 16:01

Instrument :

MSVOA_X

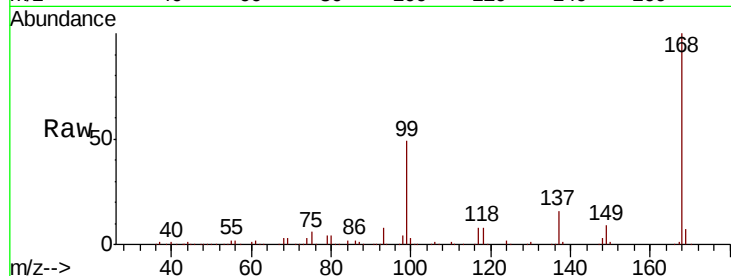
ClientSampleId :

Tot Ion:168 Resp: 313195

Ion Ratio Lower Upper

168 100

99 48.6 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

60000

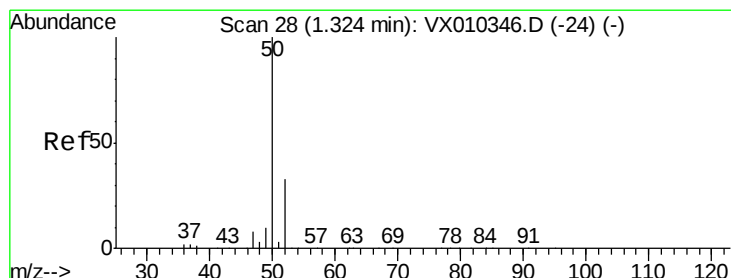
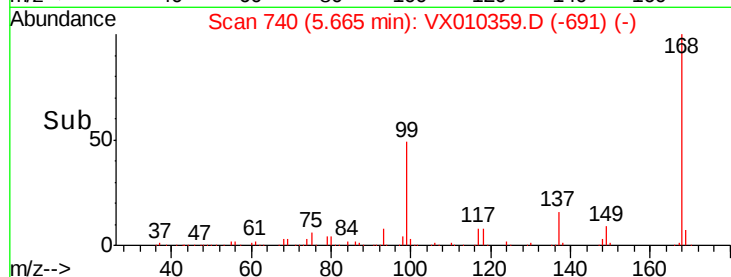
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 0.392 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010359.D

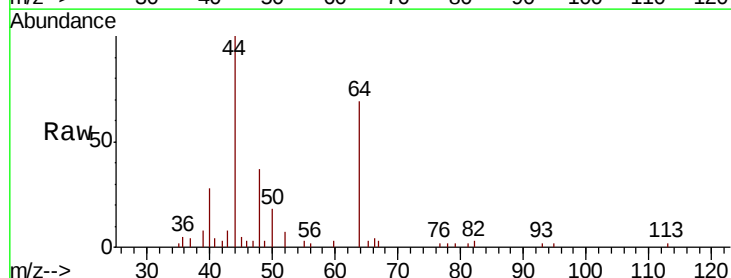
Acq: 20 Jun 2019 16:01

Tgt Ion: 50 Resp: 993

Ion Ratio Lower Upper

50 100

52 35.4 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

300

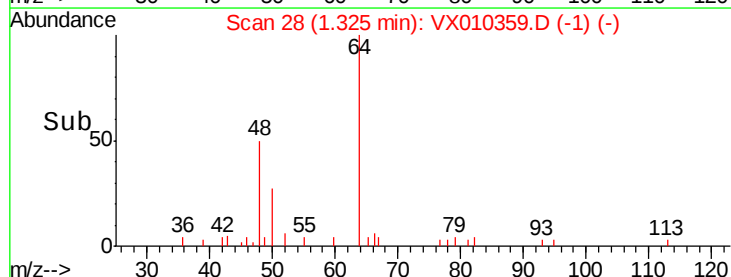
200

100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.616 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010359.D

Acq: 20 Jun 2019 16:01

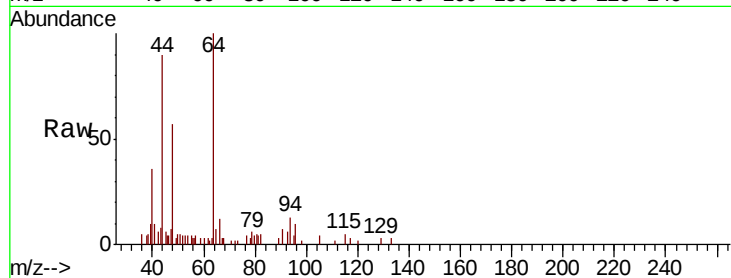
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 833

Ion Ratio Lower Upper

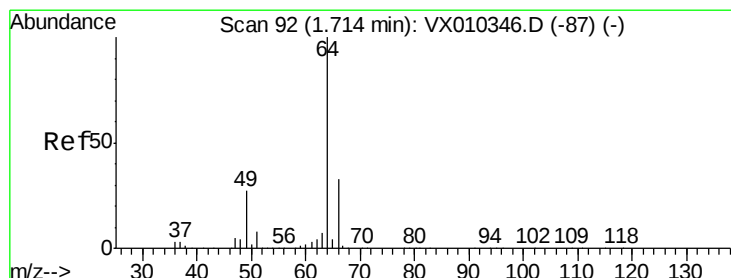
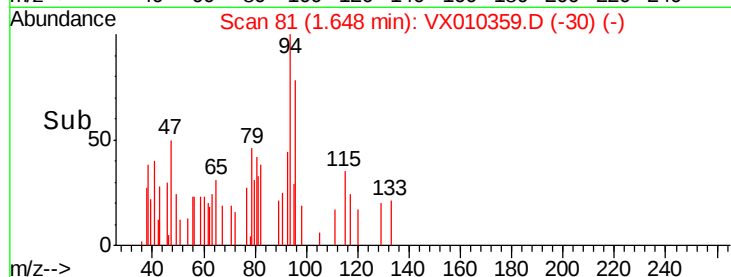
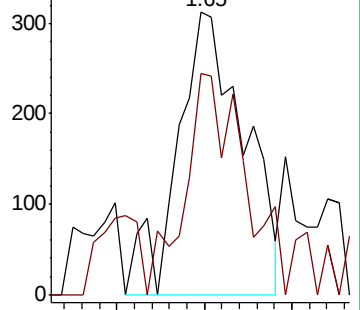
94 100

96 50.2 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.201 ug/l

RT: 1.95 min Scan# 131

Delta R.T. 0.24 min

Lab File: VX010359.D

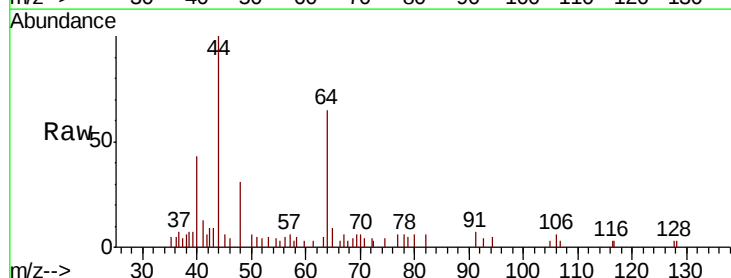
Acq: 20 Jun 2019 16:01

Tgt Ion: 64 Resp: 329

Ion Ratio Lower Upper

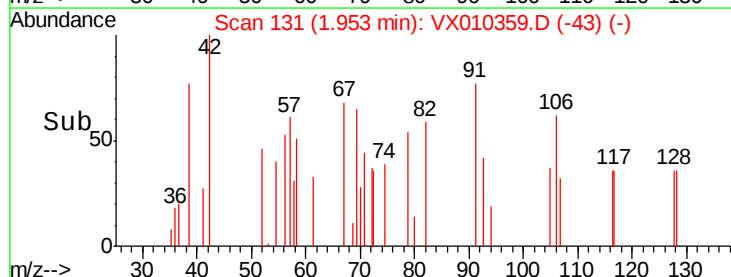
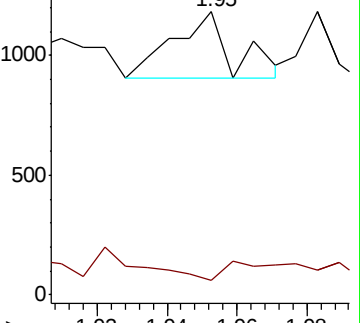
64 100

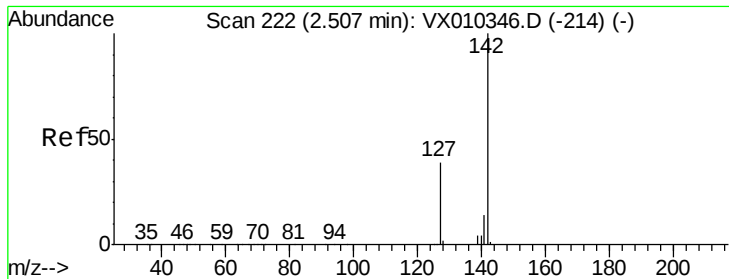
66 0.0 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

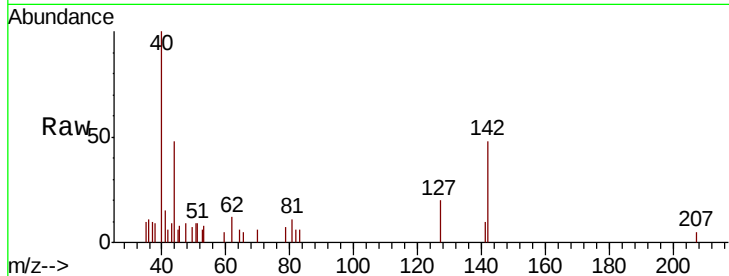




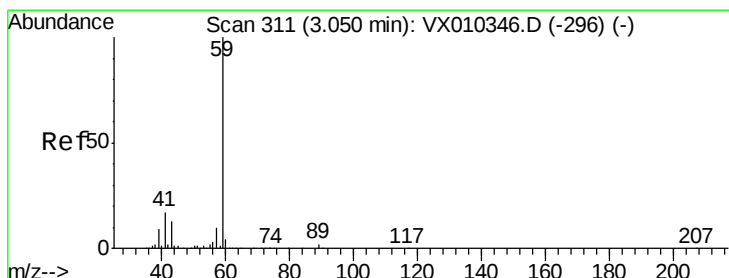
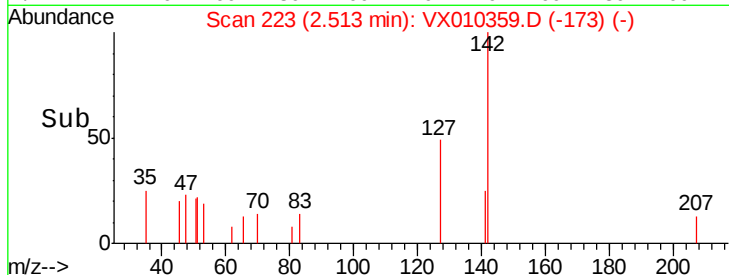
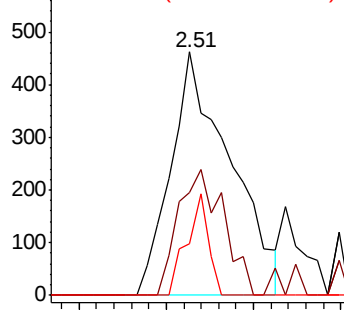
#10
Methvl Iodide
Concen: 0.286 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX010359.D
Acq: 20 Jun 2019 16:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 1090
Ion Ratio Lower Upper
142 100
127 39.4 31.1 46.7
141 15.2 11.2 16.8

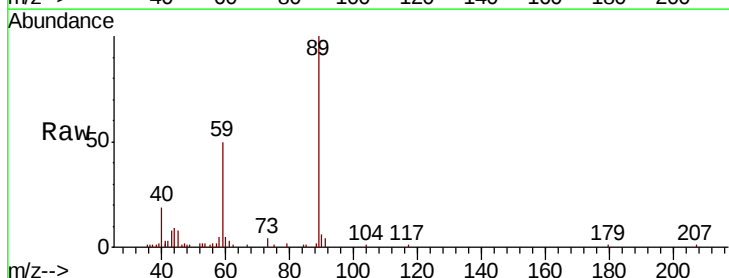


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

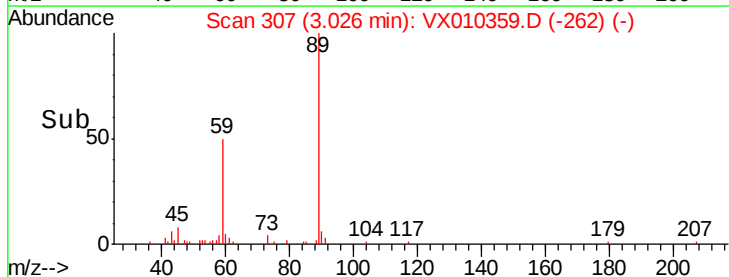
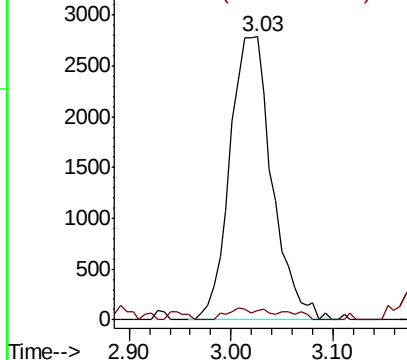


#11
Tert butyl alcohol
Concen: 10.419 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX010359.D
Acq: 20 Jun 2019 16:01

Tgt Ion: 59 Resp: 8006
Ion Ratio Lower Upper
59 100
57 2.2 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.490 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX010359.D

Acq: 20 Jun 2019 16:01

Instrument :

MSVOA_X

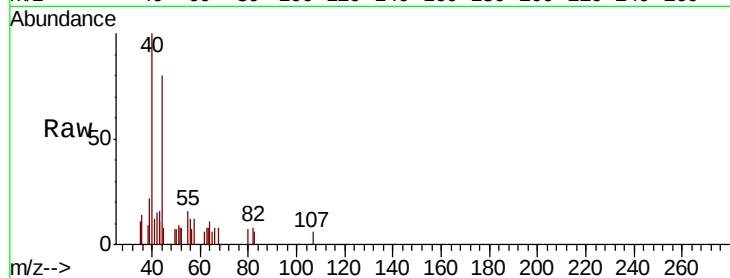
ClientSampleId :

Tot Ion: 56 Resp: 250

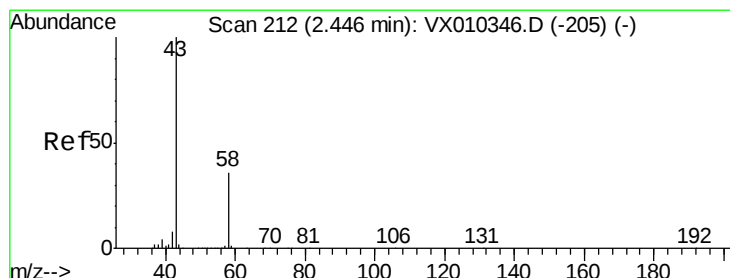
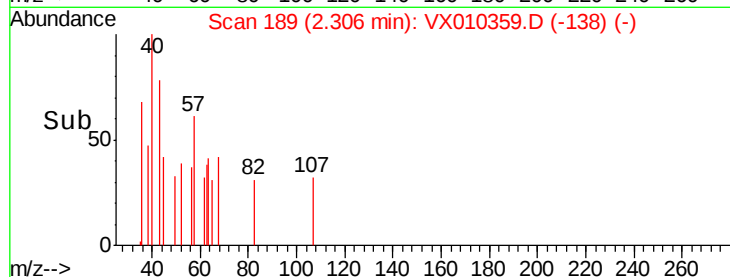
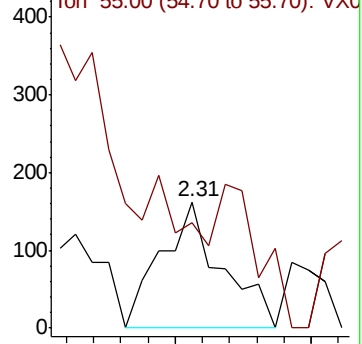
Ion Ratio Lower Upper

56 100

55 77.2 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VX0



#16

Acetone

Concen: 4.423 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010359.D

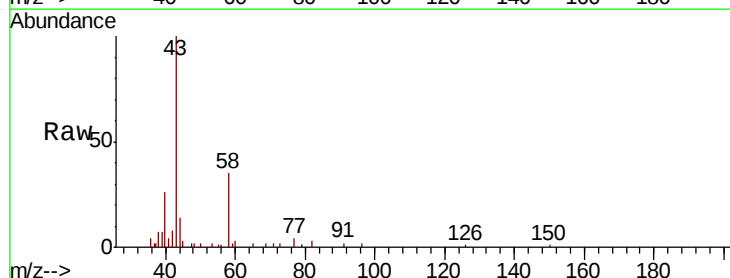
Acq: 20 Jun 2019 16:01

Tgt Ion: 43 Resp: 6510

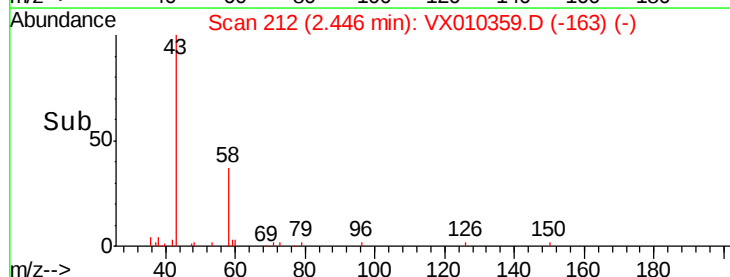
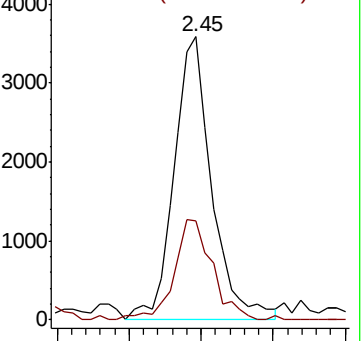
Ion Ratio Lower Upper

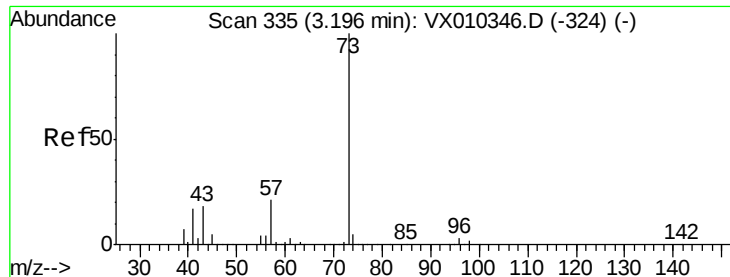
43 100

58 33.4 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0





#19

Methyl tert-butyl Ether

Concen: 0.443 ug/l

RT: 3.19 min Scan# 334

Delta R.T. -0.01 min

Lab File: VX010359.D

Acq: 20 Jun 2019 16:01

Instrument :

MSVOA_X

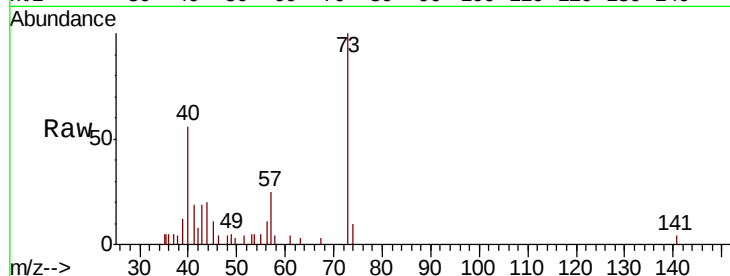
ClientSampleId :

Tot Ion: 73 Resp: 3783

Ion Ratio Lower Upper

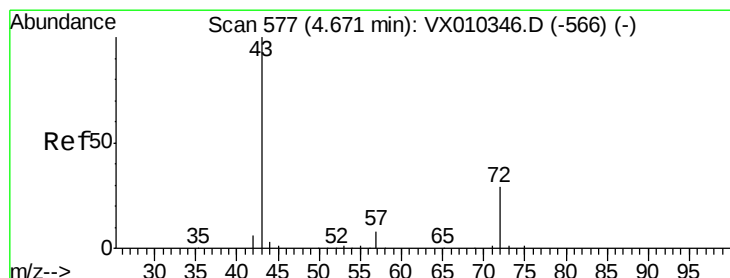
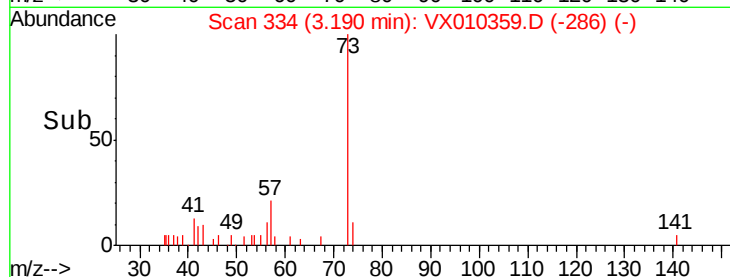
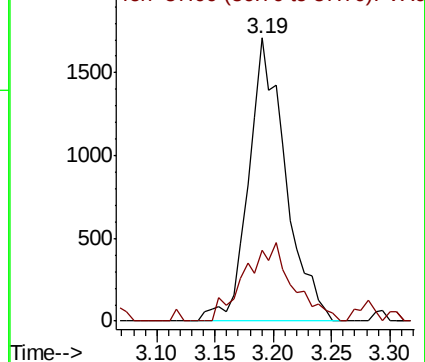
73 100

57 25.3 16.4 24.6#



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#25

2-Butanone

Concen: 0.352 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX010359.D

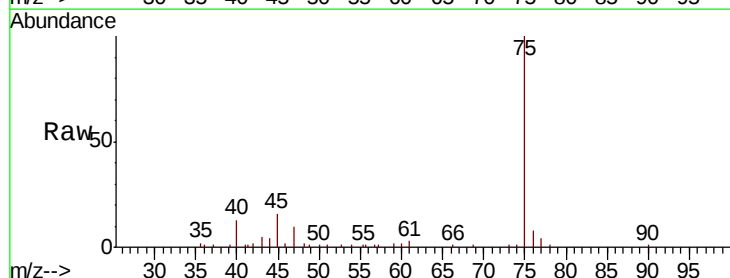
Acq: 20 Jun 2019 16:01

Tgt Ion: 43 Resp: 759

Ion Ratio Lower Upper

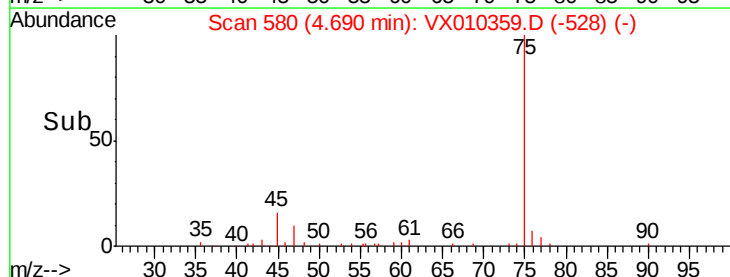
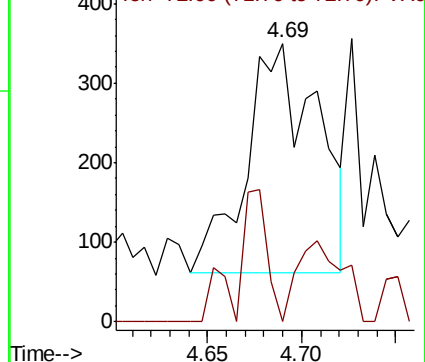
43 100

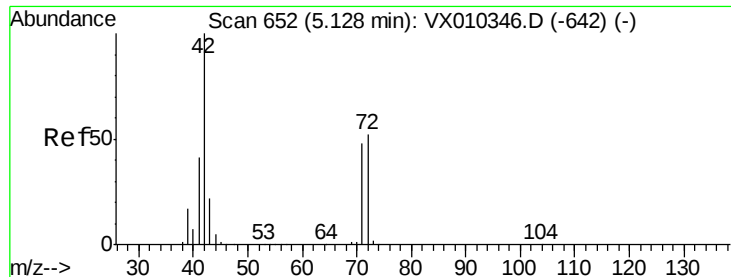
72 0.0 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

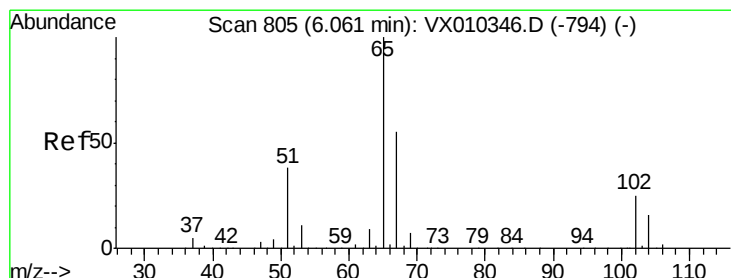
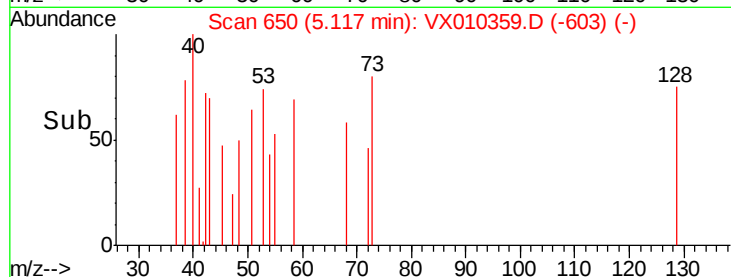
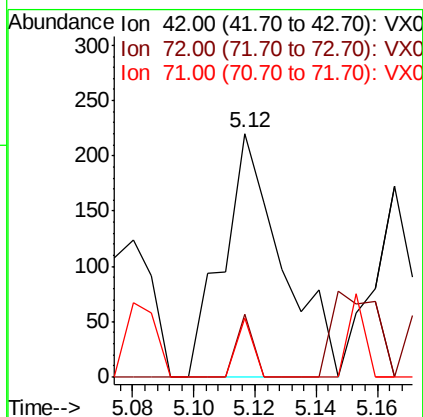
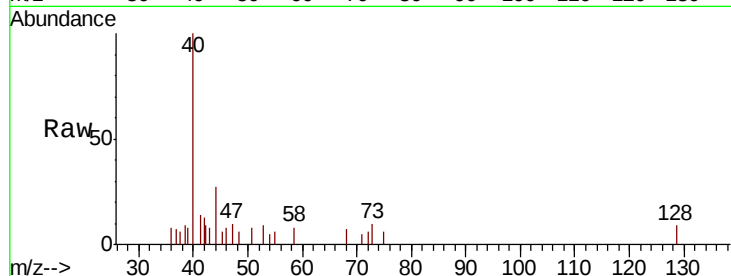




#29
Tetrahydrofuran
Concen: 0.219 ug/l
RT: 5.12 min Scan# 650
Delta R.T. -0.01 min
Lab File: VX010359.D
Acq: 20 Jun 2019 16:01

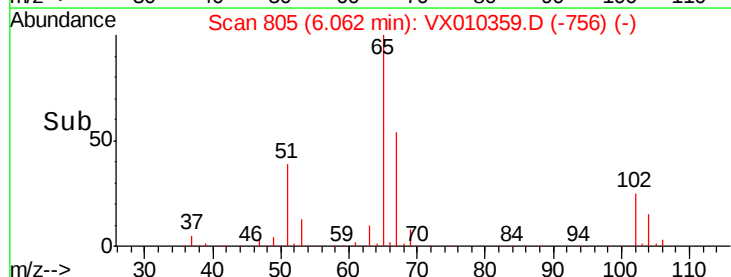
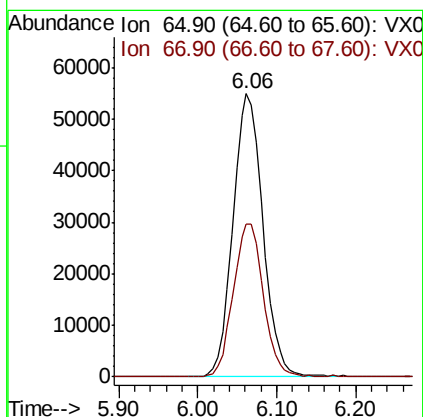
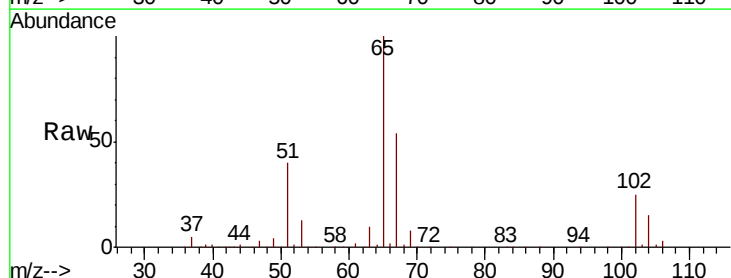
Instrument :
MSVOA_X
ClientSampled :

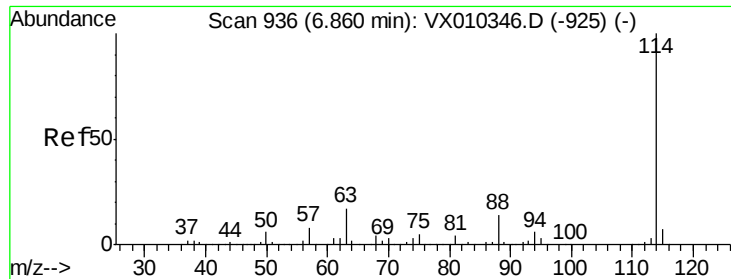
Tot Ion: 42 Resp: 293
Ion Ratio Lower Upper
42 100
72 7.2 40.6 60.8#
71 6.5 37.8 56.8#



#33
1,2-Dichloroethane-d4
Concen: 49.381 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010359.D
Acq: 20 Jun 2019 16:01

Tgt Ion: 65 Resp: 145007
Ion Ratio Lower Upper
65 100
67 54.5 0.0 110.2

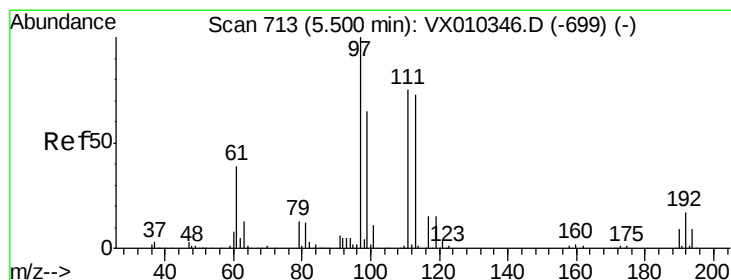
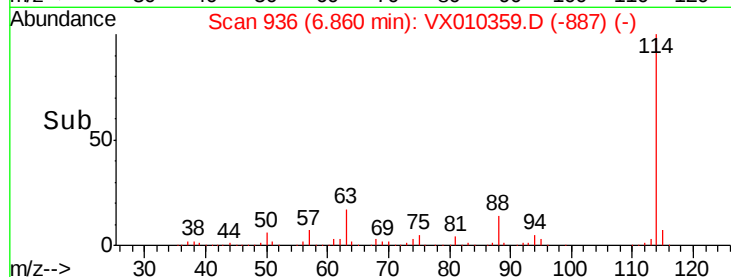
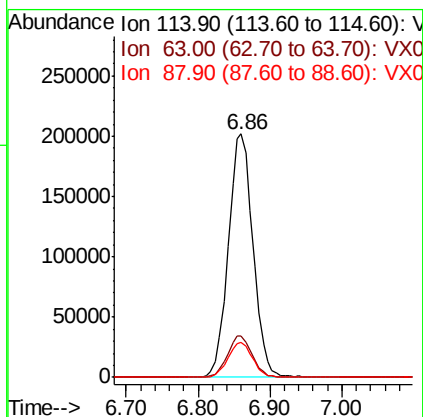
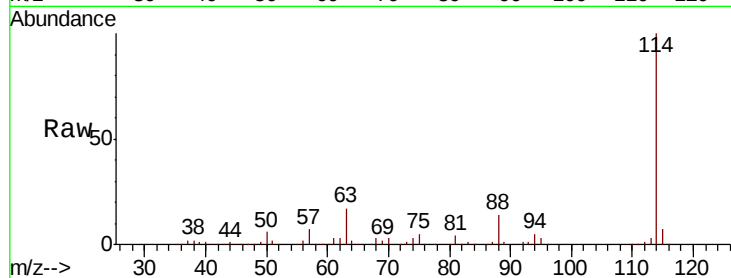




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010359.D
 Acq: 20 Jun 2019 16:01

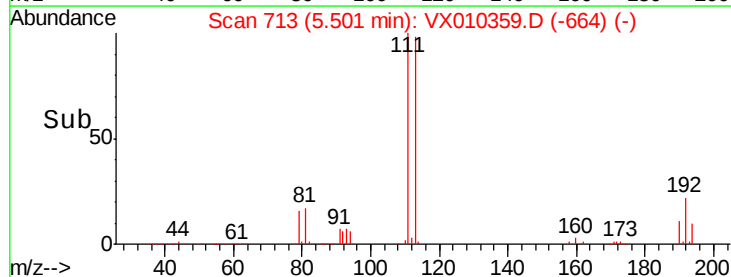
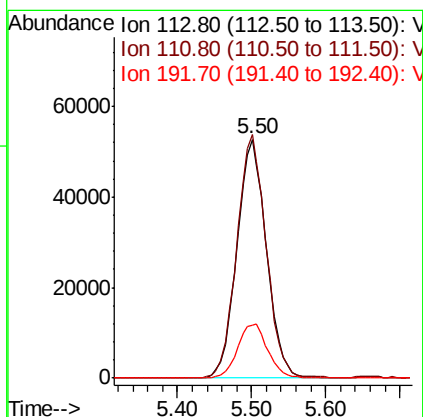
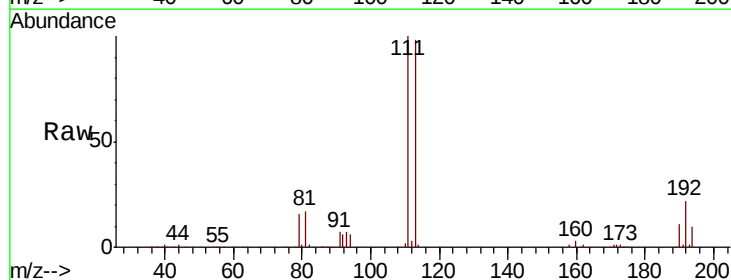
Instrument :
 MSVOA_X
 ClientSampled :

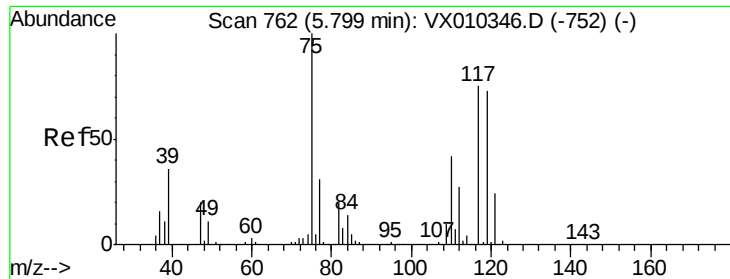
Tot Ion:114 Resp: 481083
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 33.8
 88 14.4 0.0 27.6



#35
 Dibromofluoromethane
 Concen: 49.772 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010359.D
 Acq: 20 Jun 2019 16:01

Tgt Ion:113 Resp: 146502
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.2 121.8
 192 23.3 18.6 27.8

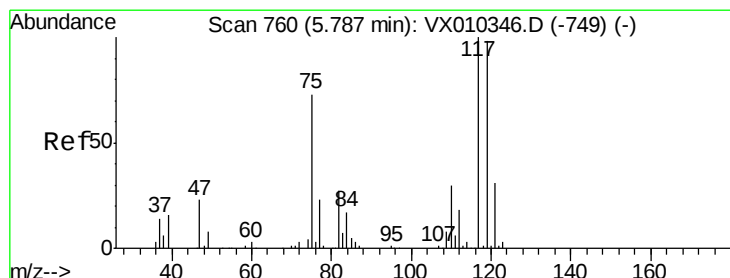
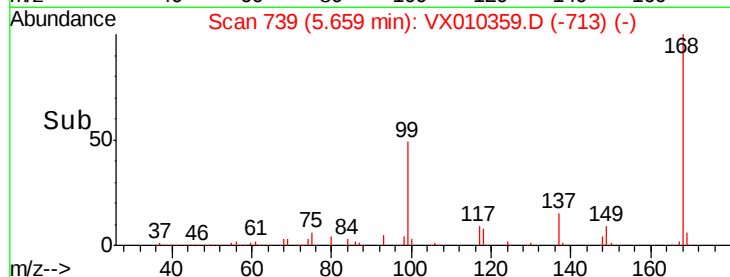
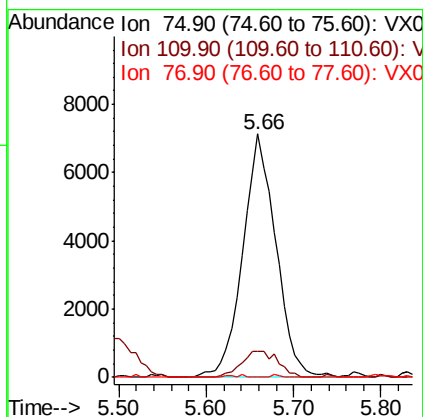
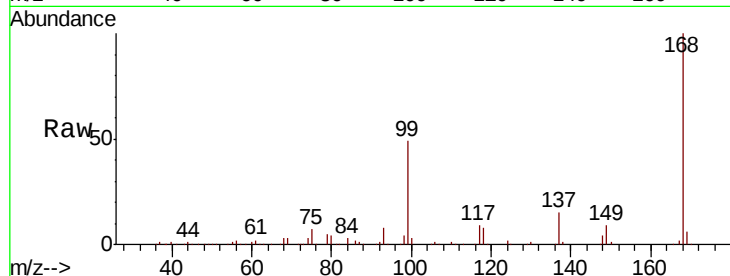




#36
 1,1-Dichloropropene
 Concen: 4.920 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010359.D
 Acq: 20 Jun 2019 16:01

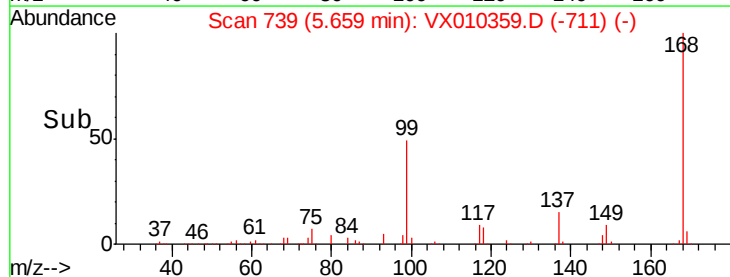
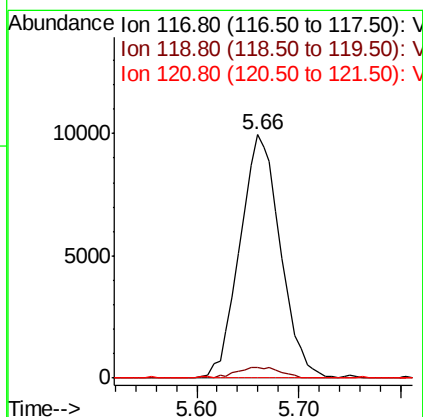
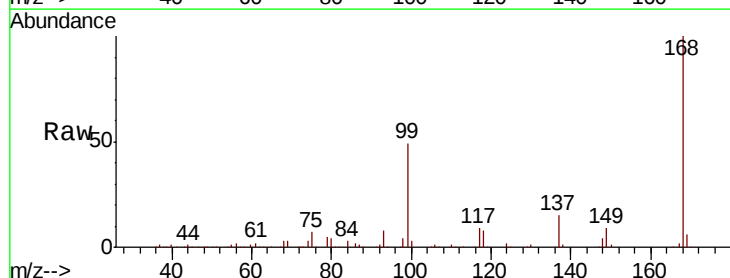
Instrument :
 MSVOA_X
 ClientSampleId :

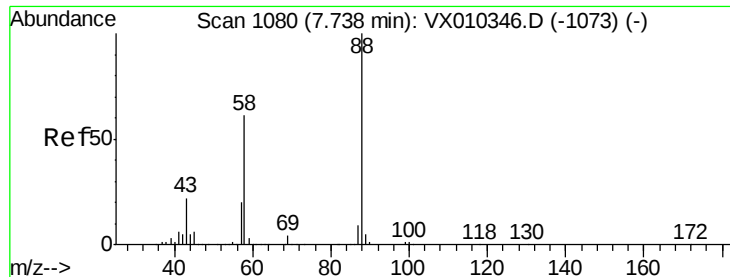
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.9	20.8	62.2#
77	0.0	25.4	38.0#



#38
 Carbon Tetrachloride
 Concen: 6.619 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX010359.D
 Acq: 20 Jun 2019 16:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	78.2	117.4#
121	0.0	24.7	37.1#





#49

1,4-Dioxane

Concen: 0.298 ug/l

RT: 7.77 min Scan# 1086

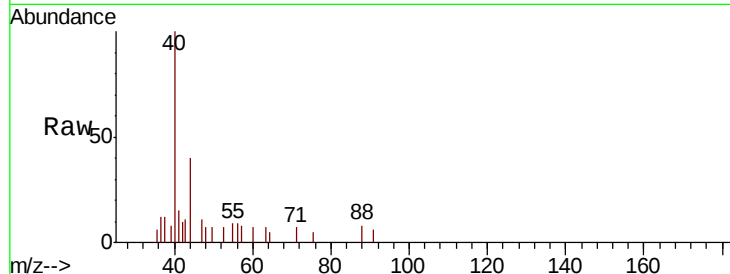
Delta R.T. 0.04 min

Lab File: VX010359.D

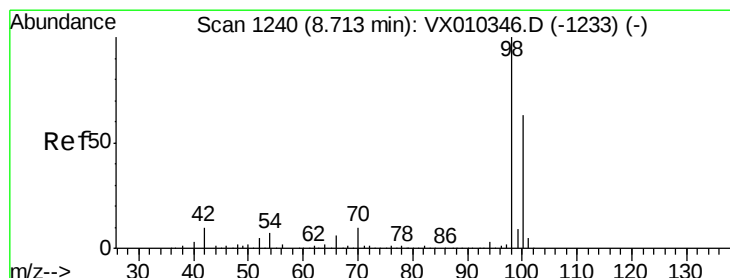
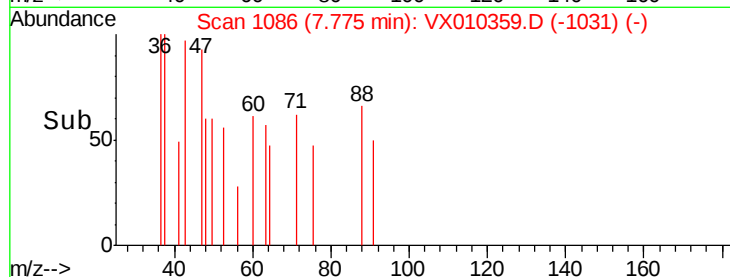
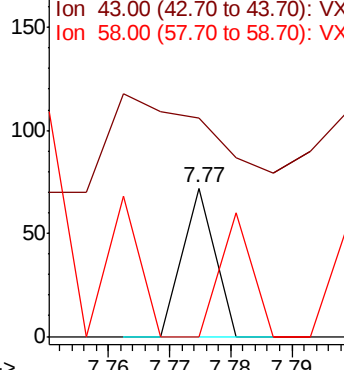
Acq: 20 Jun 2019 16:01

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	88	Resp:	26
Ion	Ratio	Lower	Upper
88	100		
43	0.0	20.2	30.2#
58	84.6	49.5	74.3#



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

Toluene-d8

Concen: 48.869 ug/l

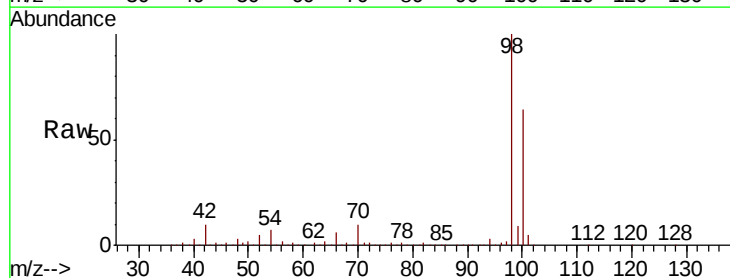
RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

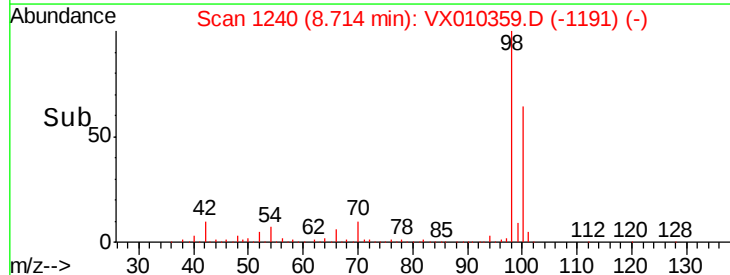
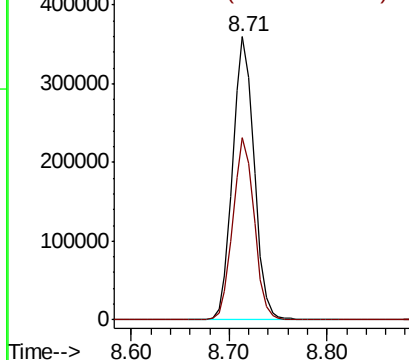
Lab File: VX010359.D

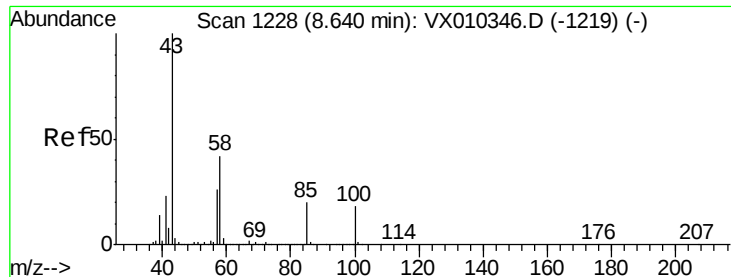
Acq: 20 Jun 2019 16:01

Tgt Ion:	98	Resp:	550310
Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.6	77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.220 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX010359.D

Acq: 20 Jun 2019 16:01

Instrument :

MSVOA_X

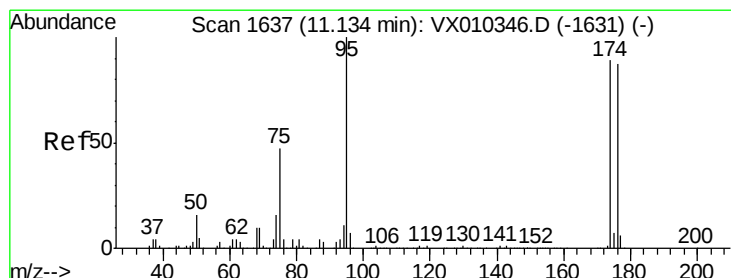
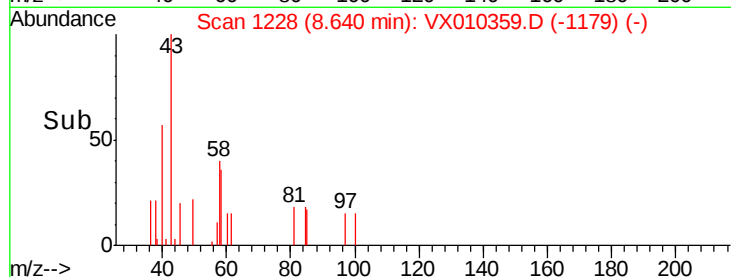
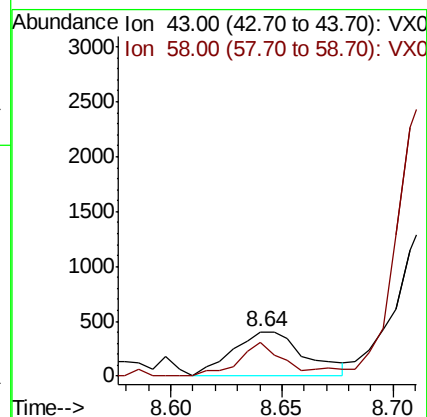
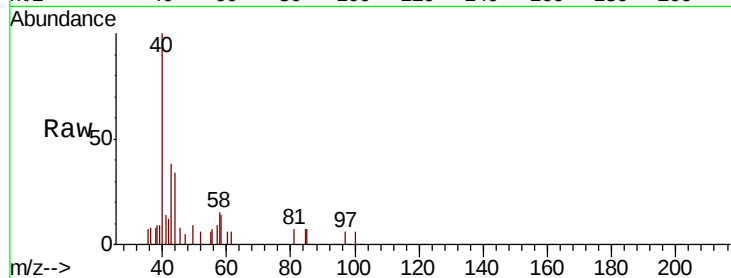
ClientSampleId :

Tot Ion: 43 Resp: 917

Ion Ratio Lower Upper

43 100

58 46.8 33.5 50.3



#62

4-Bromofluorobenzene

Concen: 45.285 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010359.D

Acq: 20 Jun 2019 16:01

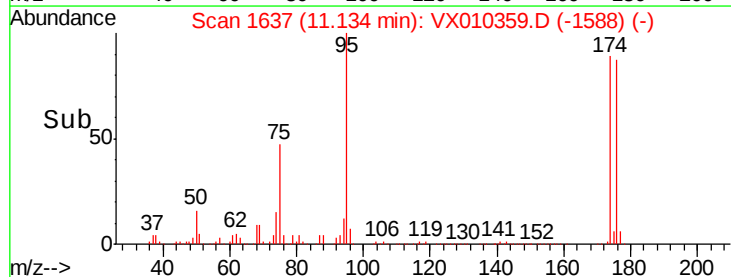
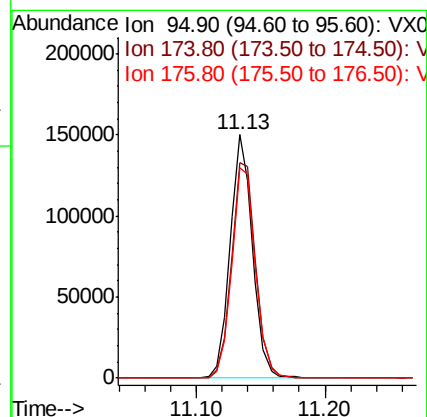
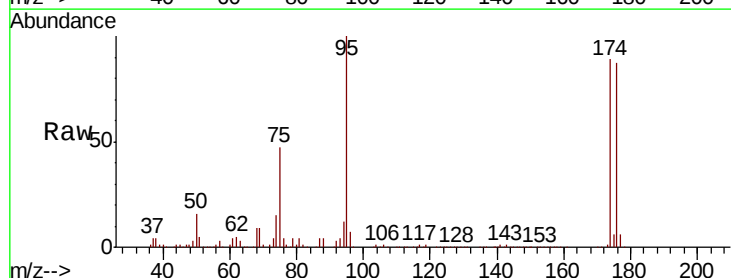
Tgt Ion: 95 Resp: 184107

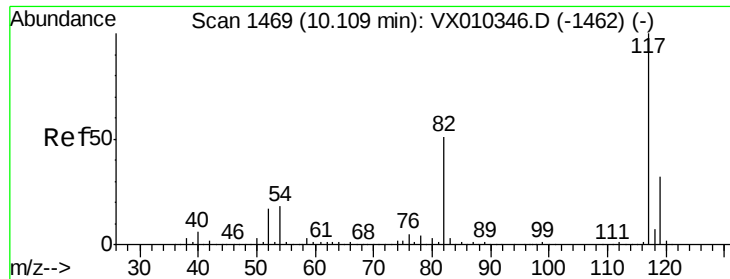
Ion Ratio Lower Upper

95 100

174 94.9 0.0 187.6

176 91.5 0.0 184.0

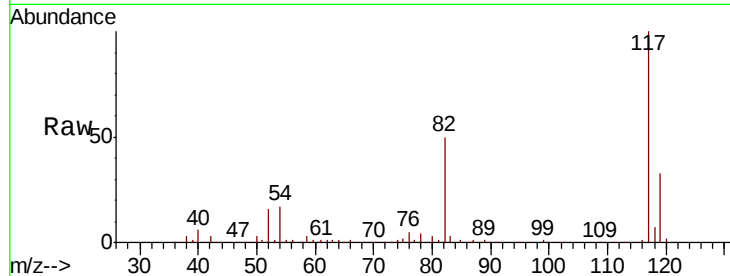




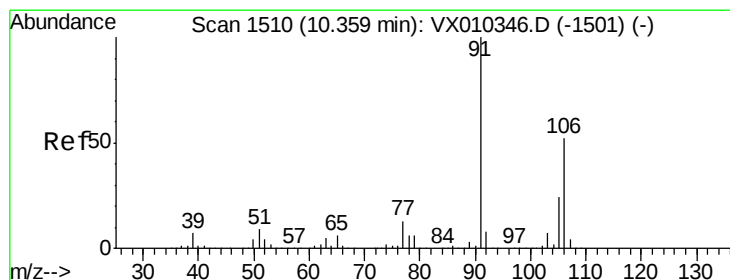
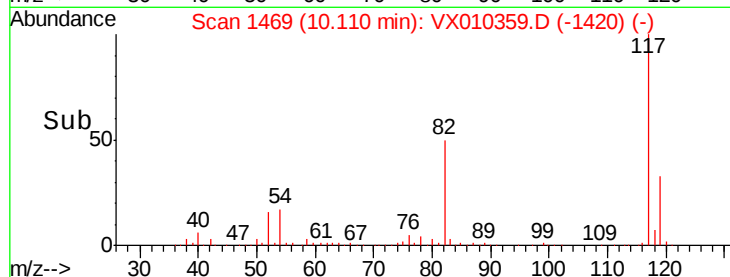
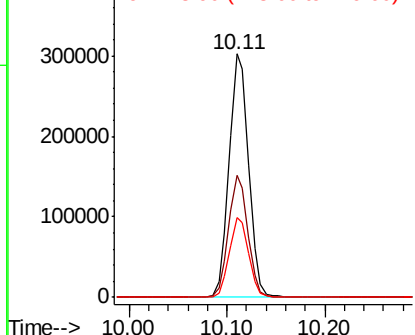
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010359.D
Acq: 20 Jun 2019 16:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 417909
Ion Ratio Lower Upper
117 100
82 50.3 41.2 61.8
119 32.7 25.5 38.3

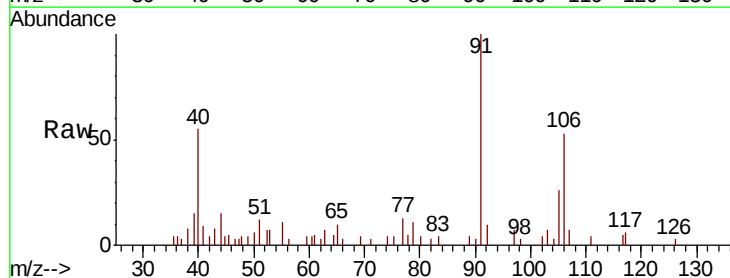


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

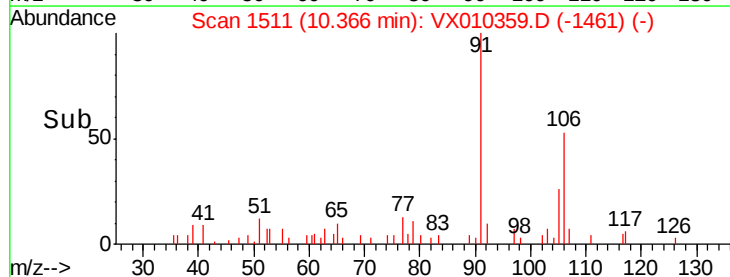
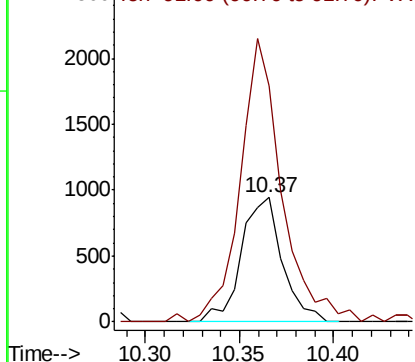


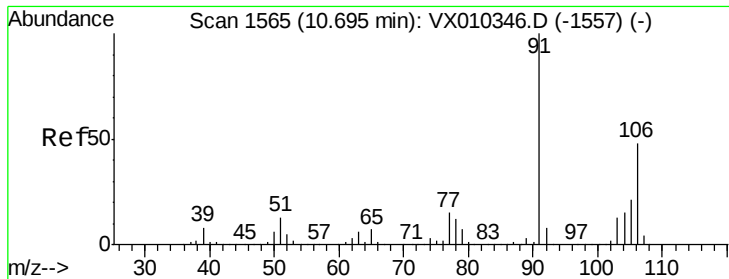
#68
m/p-Xylenes
Concen: 0.257 ug/l
RT: 10.37 min Scan# 1511
Delta R.T. 0.01 min
Lab File: VX010359.D
Acq: 20 Jun 2019 16:01

Tgt Ion:106 Resp: 1424
Ion Ratio Lower Upper
106 100
91 232.8 155.3 232.9



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

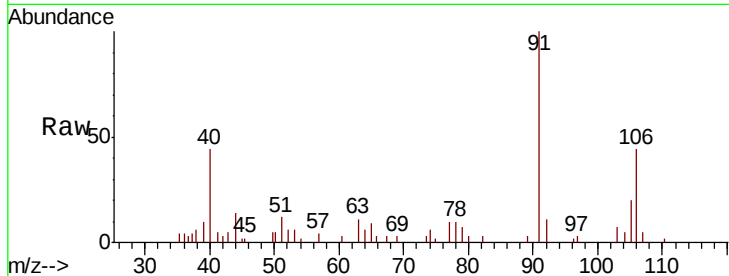




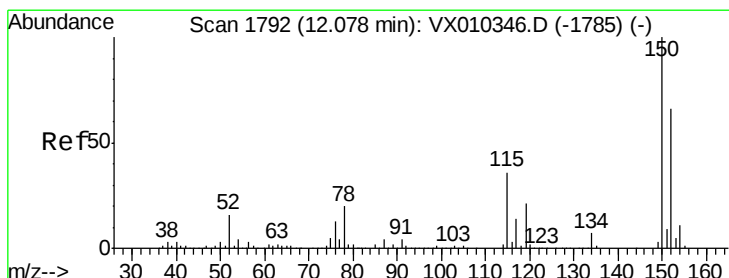
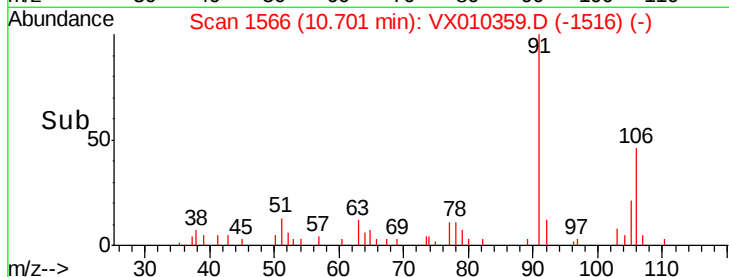
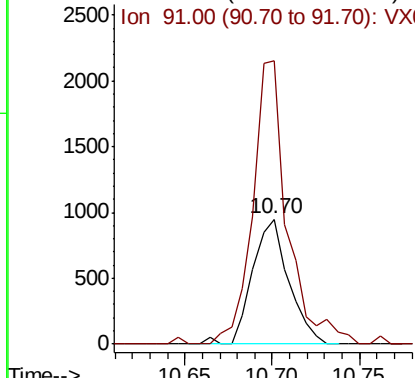
#69
o-Xylene
Concen: 0.251 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX010359.D
Acq: 20 Jun 2019 16:01

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:106 Resp: 1369
Ion Ratio Lower Upper
106 100
91 216.7 102.7 308.1

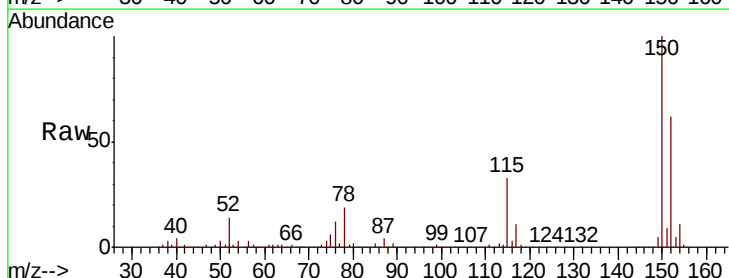


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

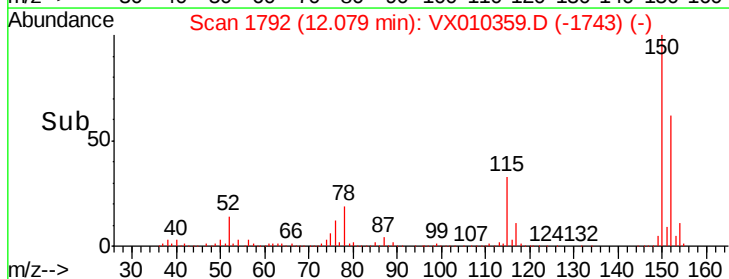
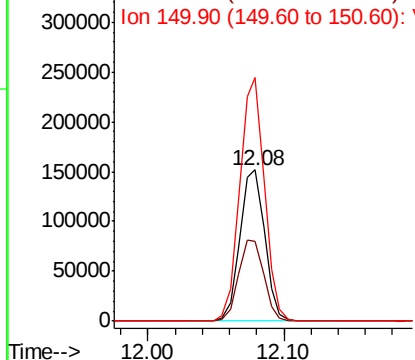


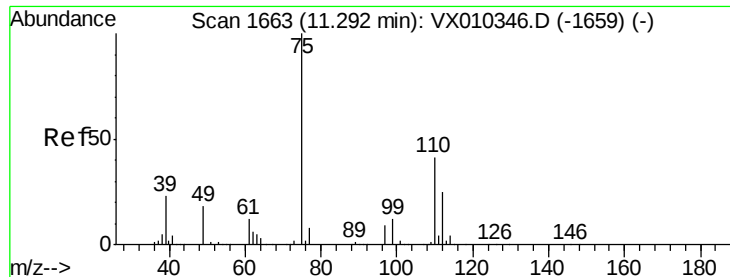
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010359.D
Acq: 20 Jun 2019 16:01

Tgt Ion:152 Resp: 192742
Ion Ratio Lower Upper
152 100
115 54.7 38.6 115.7
150 158.9 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

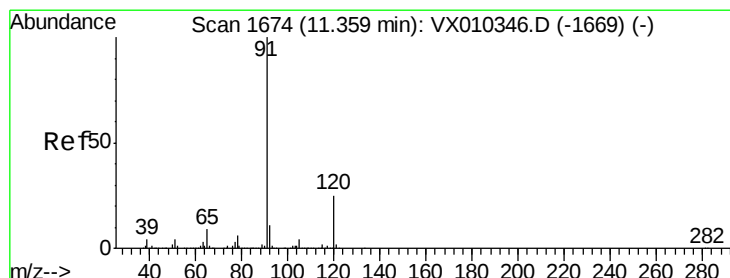
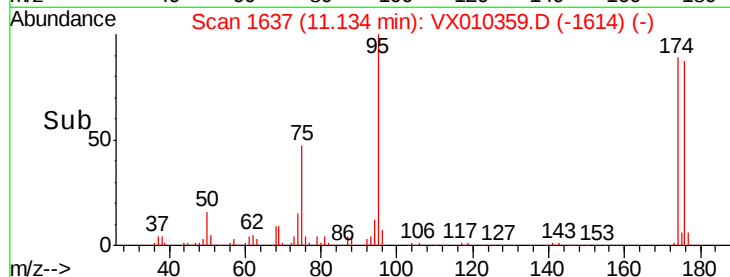
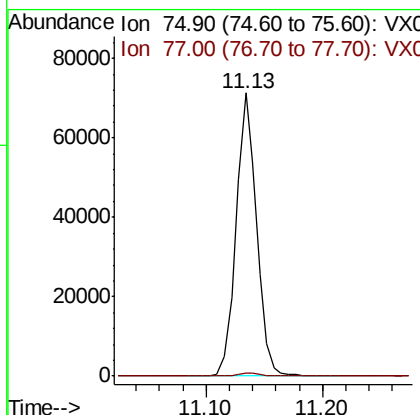
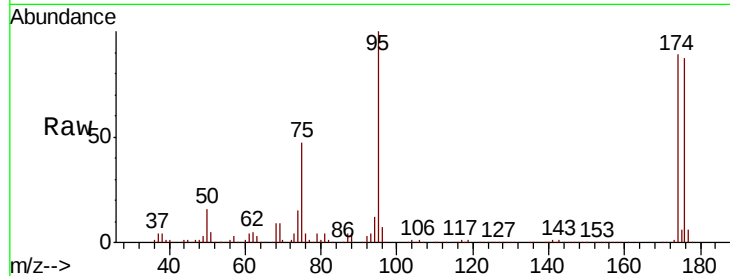




#76
 1,2,3-Trichloropropane
 Concen: 24.749 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010359.D
 Acq: 20 Jun 2019 16:01

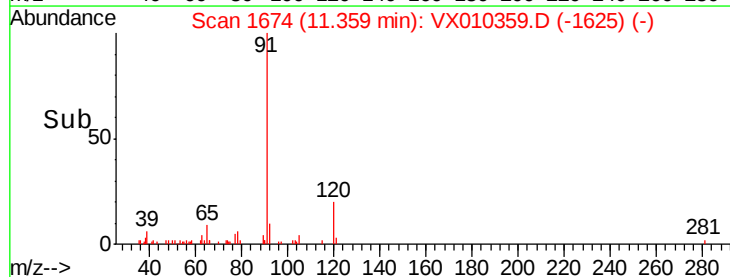
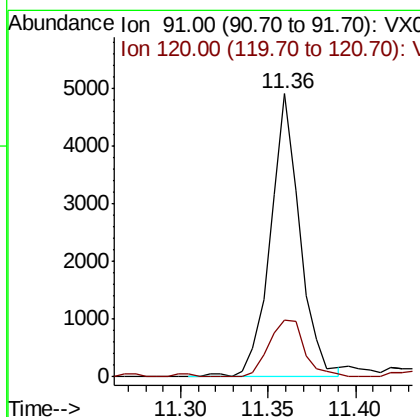
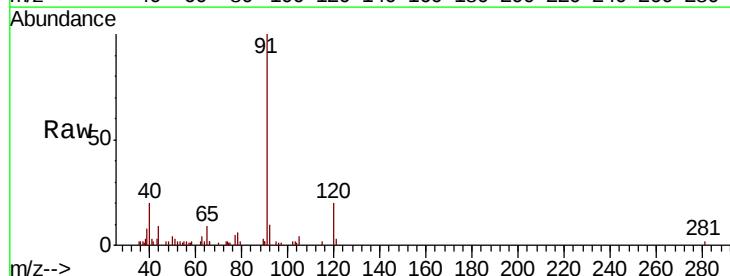
Instrument :
 MSVOA_X
 ClientSampleId :

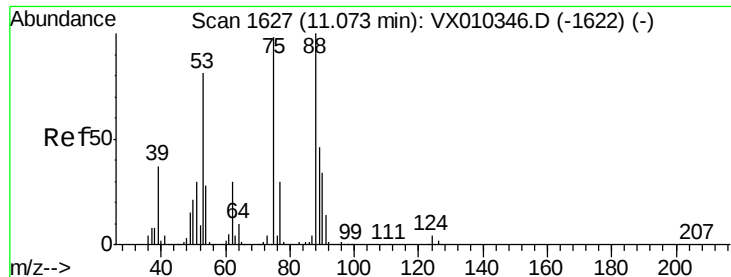
Tot Ion: 75 Resp: 86926
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.6 67.8#



#78
 n-propylbenzene
 Concen: 0.401 ug/l
 RT: 11.36 min Scan# 1674
 Delta R.T. 0.00 min
 Lab File: VX010359.D
 Acq: 20 Jun 2019 16:01

Tgt Ion: 91 Resp: 5757
 Ion Ratio Lower Upper
 91 100
 120 24.5 12.4 37.4

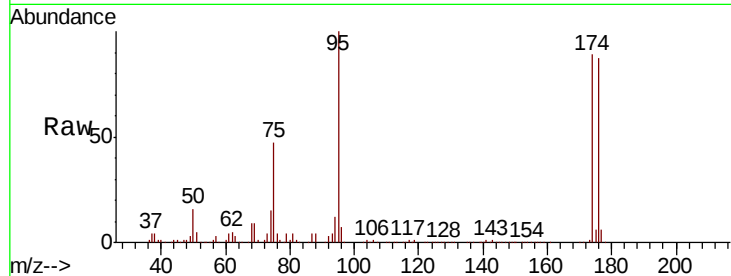




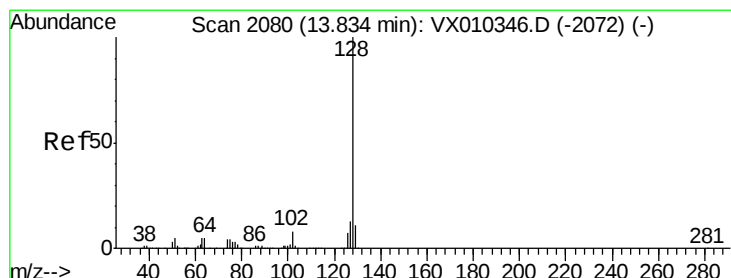
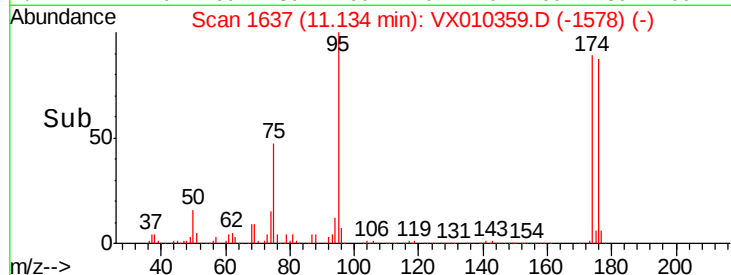
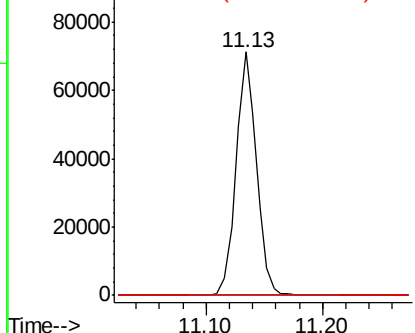
#81
trans-1,4-Dichloro-2-butene
Concen: 57.737 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010359.D
Acq: 20 Jun 2019 16:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 86926
Ion Ratio Lower Upper
75 100
53 0.3 66.1 99.1#
89 0.0 37.8 56.6#

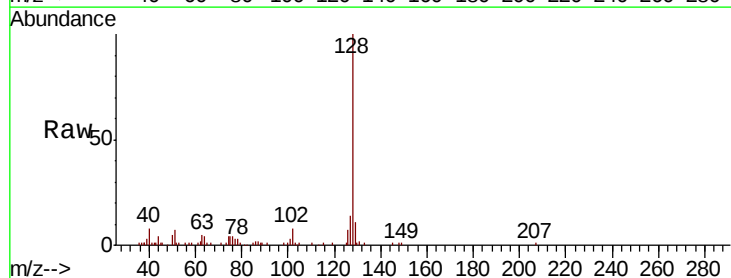


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95
Naphthalene
Concen: 1.248 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX010359.D
Acq: 20 Jun 2019 16:01

Tgt Ion: 128 Resp: 16836
Ion Ratio Lower Upper
128 100
127 14.1 10.2 15.4
129 13.8 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

