

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062719\
 Data File : VX010497.D
 Acq On : 27 Jun 2019 18:27
 Operator : JC/SP
 Sample : K3565-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 28 06:50:21 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	265964	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	410756	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	367604	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	171163	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	125545	50.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.70%	
35) Dibromofluoromethane	5.50	113	123851	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
50) Toluene-d8	8.71	98	477207	49.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.26%	
62) 4-Bromofluorobenzene	11.13	95	159016	45.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.62%	

Target Compounds

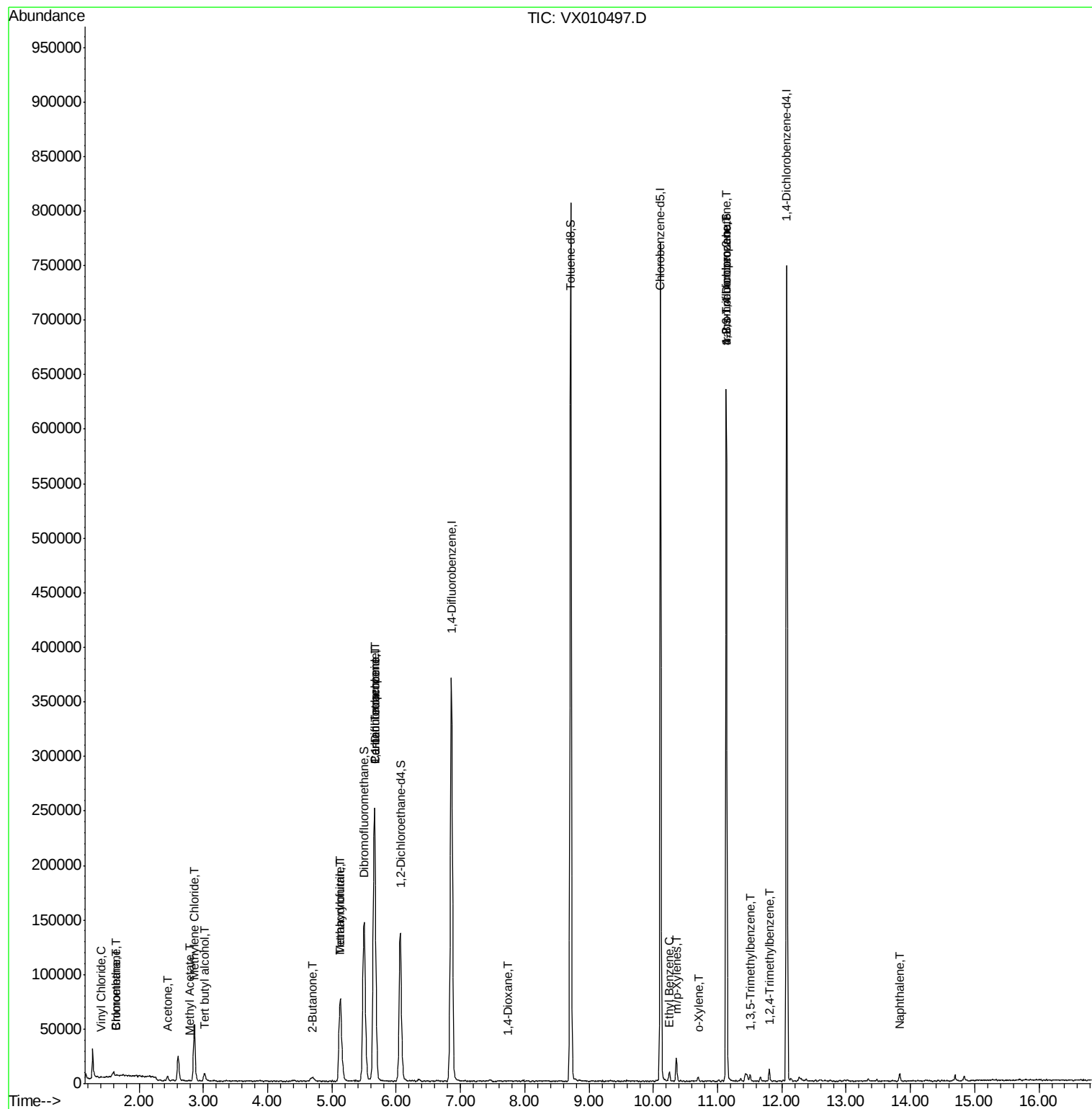
						Qvalue
4) Vinyl Chloride	1.40	62	563	0.239	ug/l #	73
5) Bromomethane	1.65	94	452	0.393	ug/l #	78
6) Chloroethane	1.65	64	479	0.344	ug/l #	41
11) Tert butyl alcohol	3.02	59	4045	6.199	ug/l #	81
16) Acetone	2.45	43	4108	3.287	ug/l	96
18) Methyl Acetate	2.79	43	651	0.261	ug/l #	69
20) Methylene Chloride	2.86	84	26191	10.183	ug/l	97
25) 2-Butanone	4.68	43	708	0.386	ug/l	94
29) Tetrahydrofuran	5.13	42	68930	60.704	ug/l	99
36) 1,1-Dichloropropene	5.66	75	16296	4.993	ug/l #	48
38) Carbon Tetrachloride	5.67	117	23653	6.692	ug/l #	16
41) Methacrylonitrile	5.13	41	37632	20.425	ug/l #	41
49) 1,4-Dioxane	7.74	88	24	0.323	ug/l #	1
67) Ethyl Benzene	10.25	91	4668	0.370	ug/l	94
68) m/p-Xylenes	10.36	106	5356	1.097	ug/l	99
69) o-Xylene	10.70	106	1112	0.232	ug/l	87
76) 1,2,3-Trichloropropane	11.13	75	75801	24.303	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	2394	0.250	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.13	75	75801	56.696	ug/l #	16
84) 1,2,4-Trimethylbenzene	11.80	105	5080	0.529	ug/l	98
95) Naphthalene	13.83	128	4426	0.370	ug/l #	93

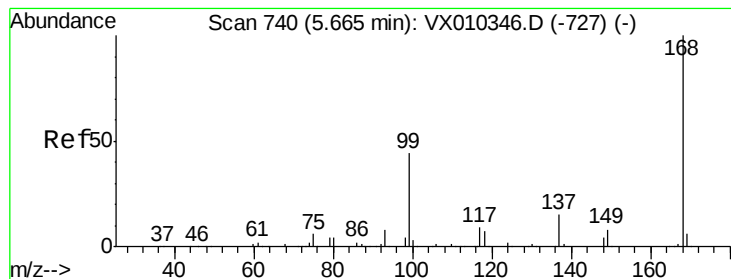
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062719\
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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: VX010497.D

Acq: 27 Jun 2019 18:27

Instrument :

MSVOA_X

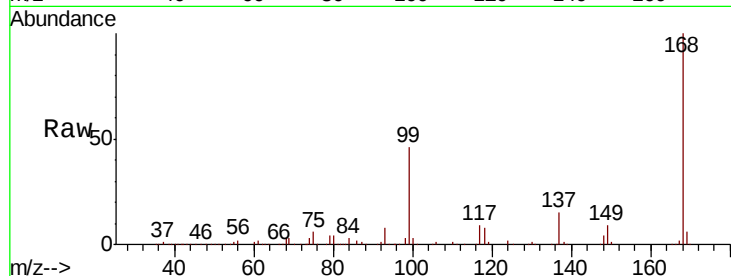
ClientSampleId :

Tot Ion:168 Resp: 265964

Ion Ratio Lower Upper

168 100

99 45.8 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

100000

80000

60000

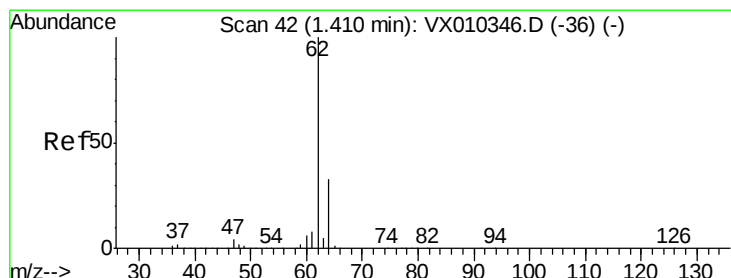
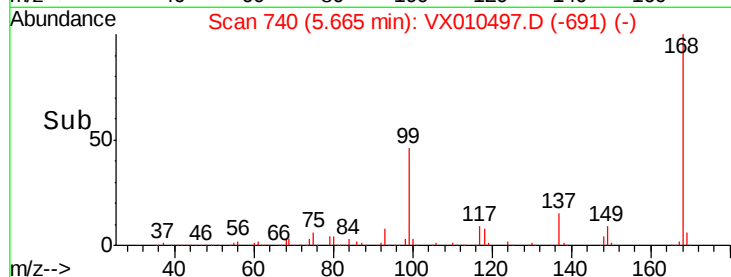
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.239 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX010497.D

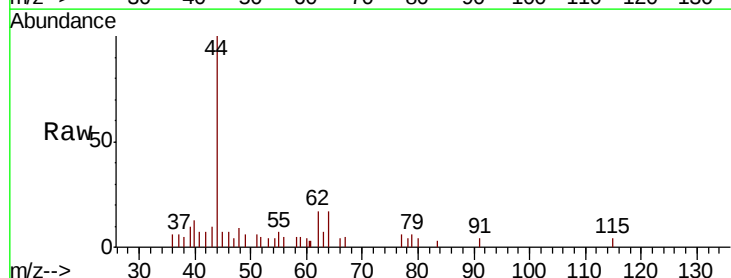
Acq: 27 Jun 2019 18:27

Tgt Ion: 62 Resp: 563

Ion Ratio Lower Upper

62 100

64 48.0 26.2 39.4#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

800

600

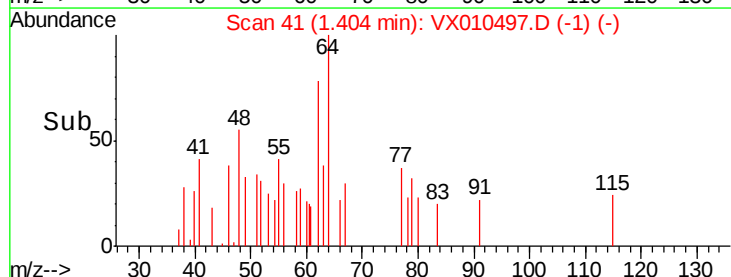
400

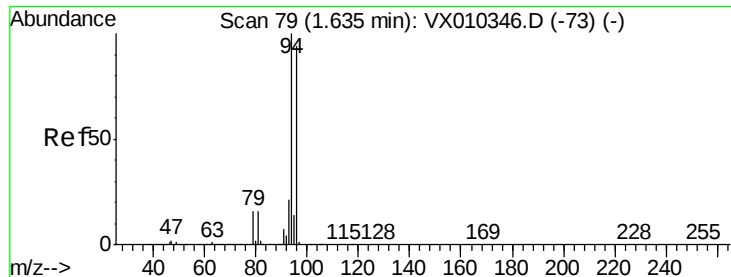
200

0

Time-->

1.35 1.40 1.45





#5

Bromomethane

Concen: 0.393 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010497.D

Acq: 27 Jun 2019 18:27

Instrument :

MSVOA_X

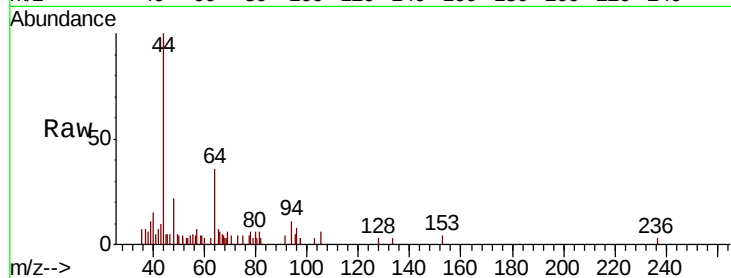
ClientSampled :

Tot Ion: 94 Resp: 452

Ion Ratio Lower Upper

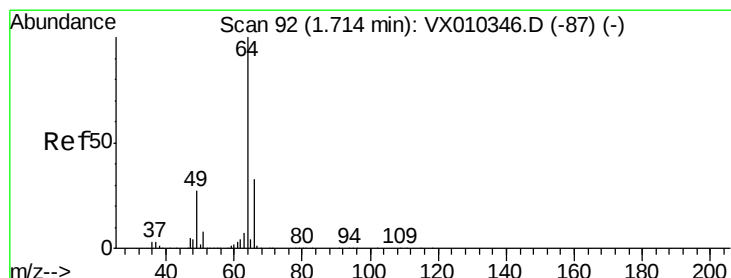
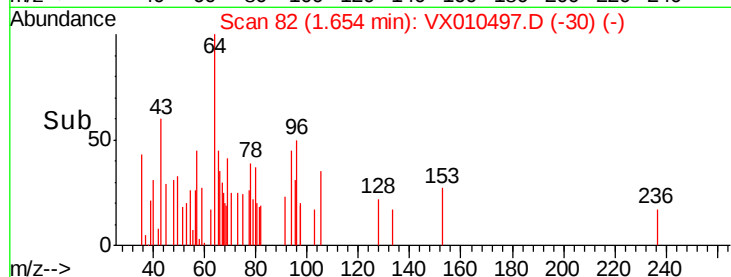
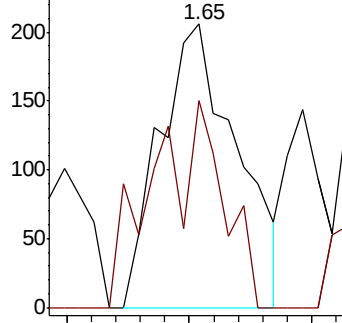
94 100

96 72.8 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: 0.344 ug/l

RT: 1.65 min Scan# 81

Delta R.T. -0.07 min

Lab File: VX010497.D

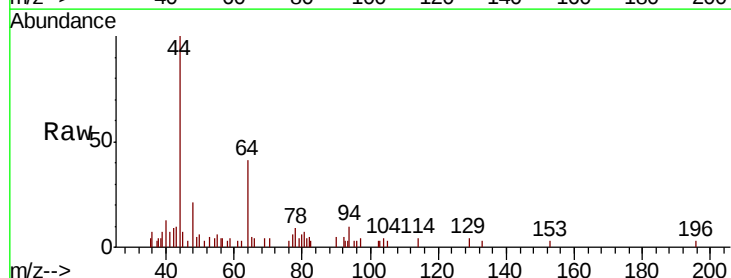
Acq: 27 Jun 2019 18:27

Tgt Ion: 64 Resp: 479

Ion Ratio Lower Upper

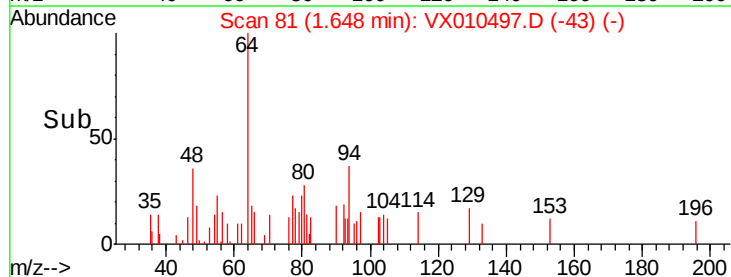
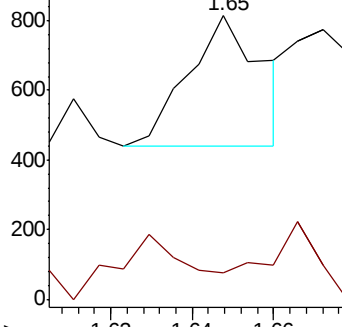
64 100

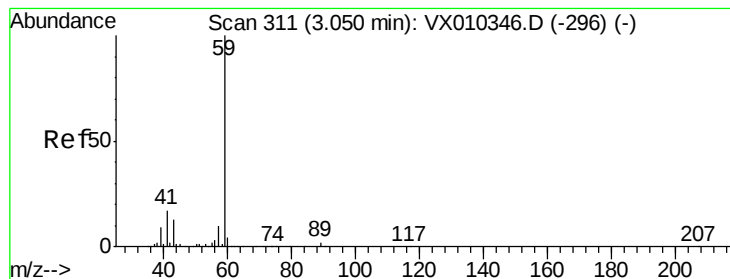
66 0.0 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



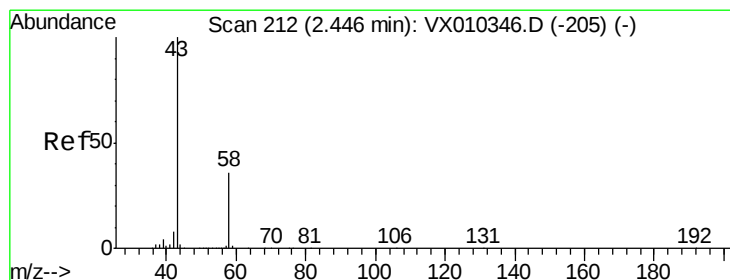
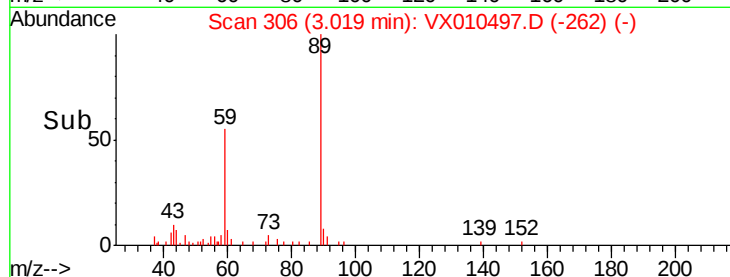
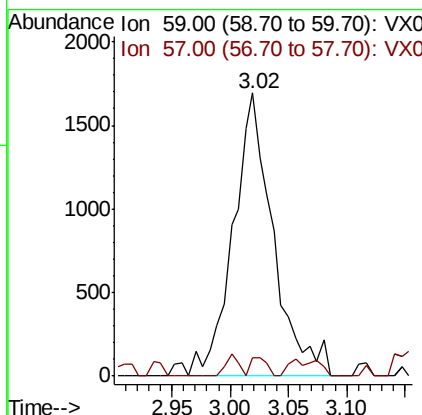
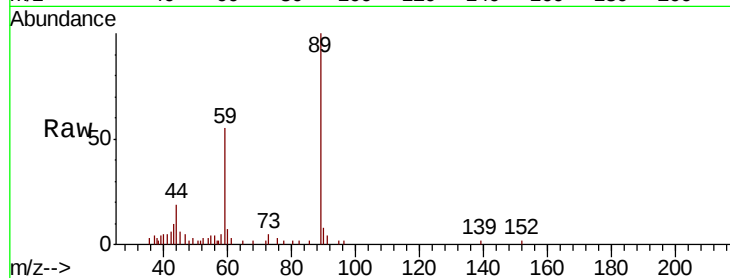


#11

Tert butyl alcohol
 Concen: 6.199 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX010497.D
 Acq: 27 Jun 2019 18:27

Instrument :
 MSVOA_X
 ClientSampleId :

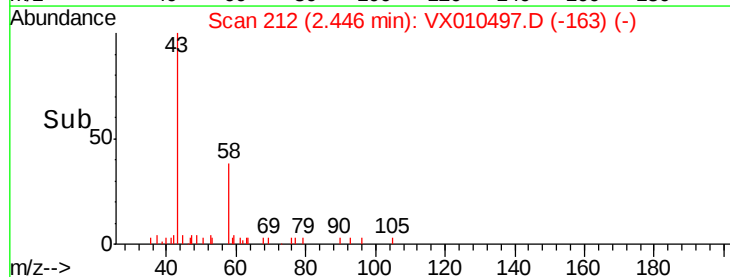
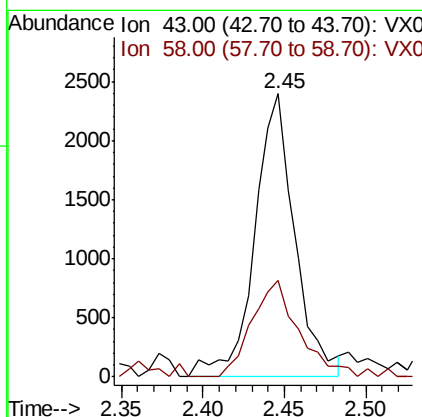
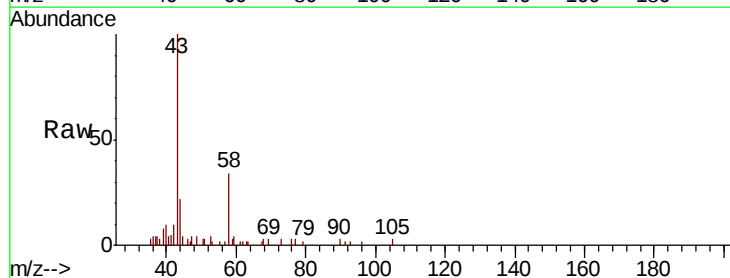
Tot Ion: 59 Resp: 4045
 Ion Ratio Lower Upper
 59 100
 57 2.7 7.7 11.5#

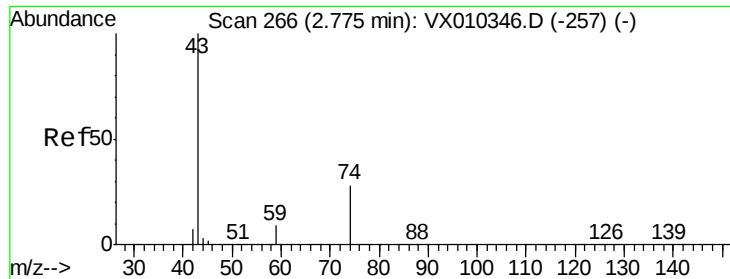


#16

Acetone
 Concen: 3.287 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VX010497.D
 Acq: 27 Jun 2019 18:27

Tgt Ion: 43 Resp: 4108
 Ion Ratio Lower Upper
 43 100
 58 33.9 28.9 43.3

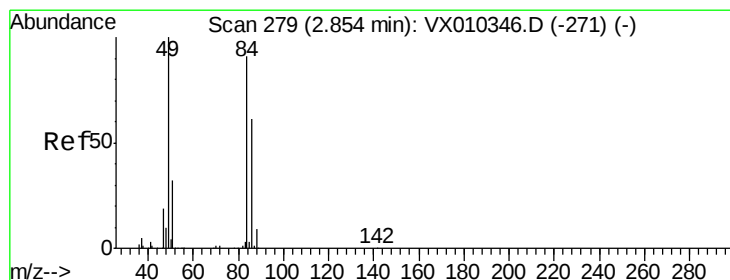
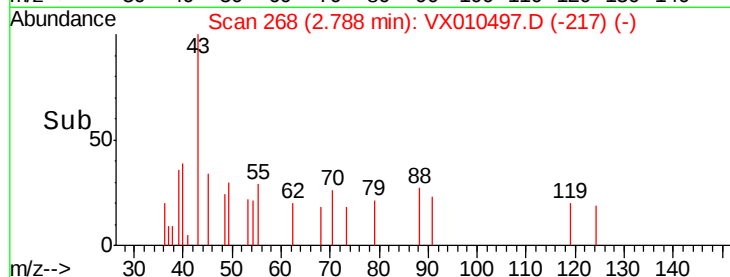
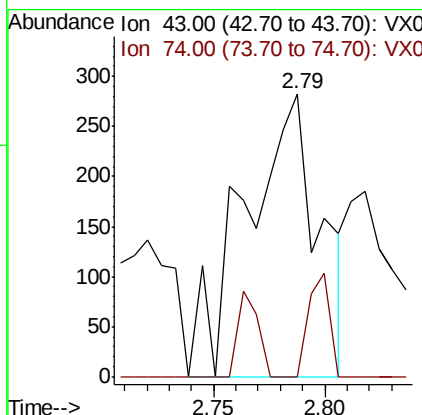
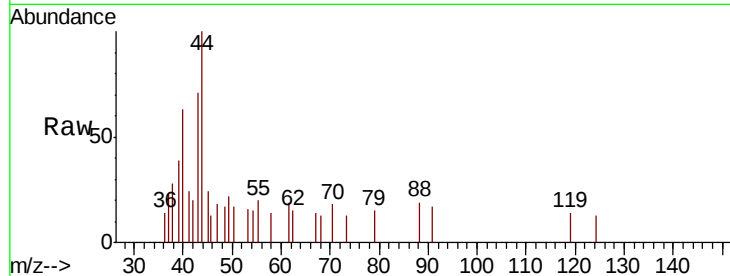




#18
Methyl Acetate
Concen: 0.261 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX010497.D
Acq: 27 Jun 2019 18:27

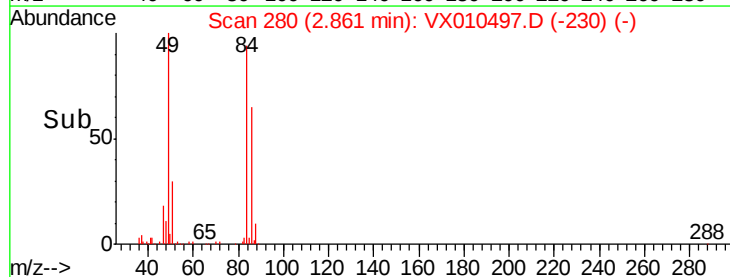
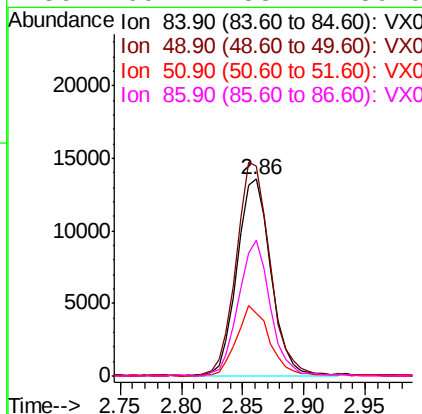
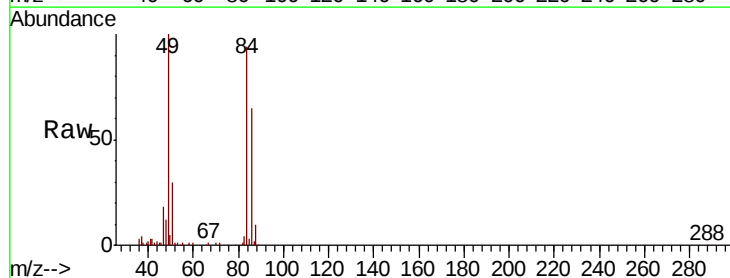
Instrument :
MSVOA_X
ClientSampled :

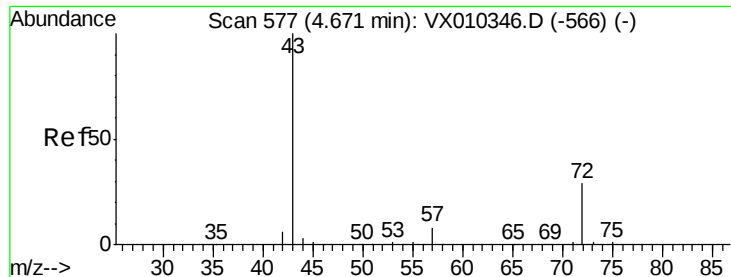
Tot Ion: 43 Resp: 651
Ion Ratio Lower Upper
43 100
74 10.4 21.3 31.9#



#20
Methylene Chloride
Concen: 10.183 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010497.D
Acq: 27 Jun 2019 18:27

Tgt Ion: 84 Resp: 26191
Ion Ratio Lower Upper
84 100
49 105.9 87.5 131.3
51 31.8 27.7 41.5
86 69.1 53.4 80.0





#25

2-Butanone

Concen: 0.386 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX010497.D

Acq: 27 Jun 2019 18:27

Instrument :

MSVOA_X

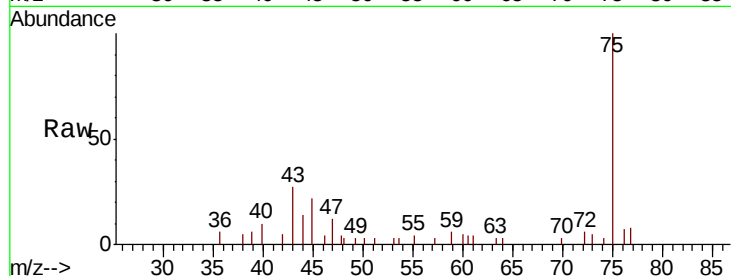
ClientSampleId :

Tot Ion: 43 Resp: 708

Ion Ratio Lower Upper

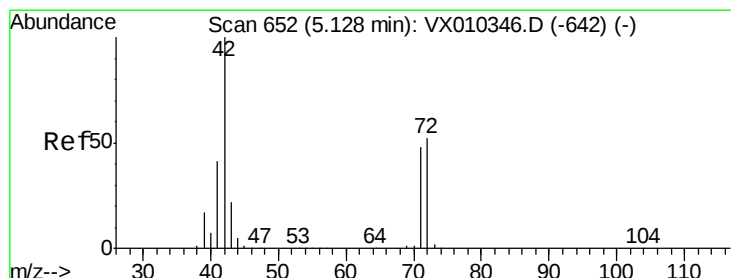
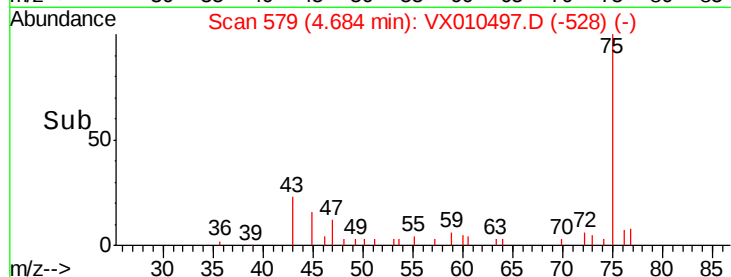
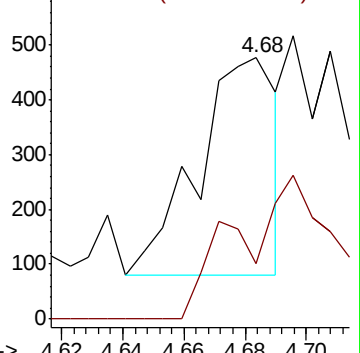
43 100

72 25.7 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: 60.704 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX010497.D

Acq: 27 Jun 2019 18:27

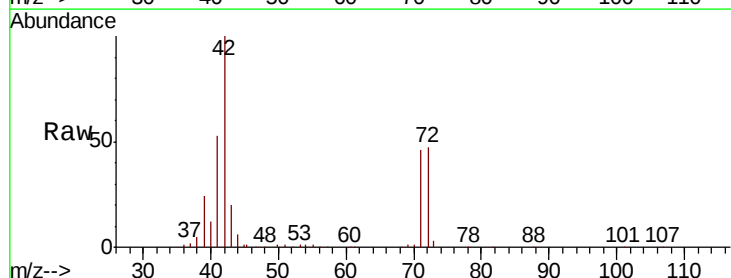
Tgt Ion: 42 Resp: 68930

Ion Ratio Lower Upper

42 100

72 50.5 40.6 60.8

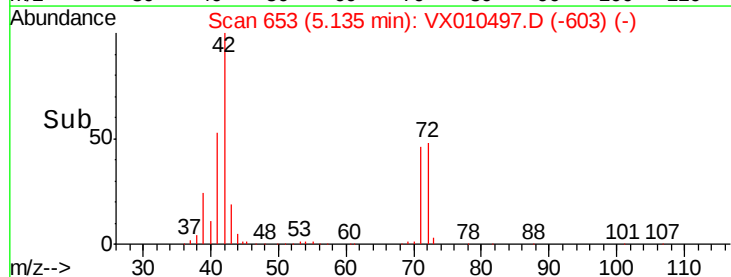
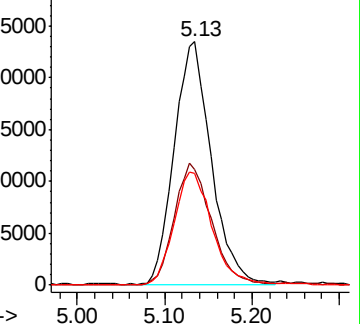
71 47.9 37.8 56.8

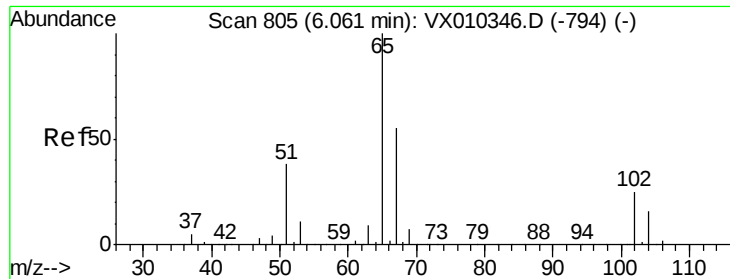


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

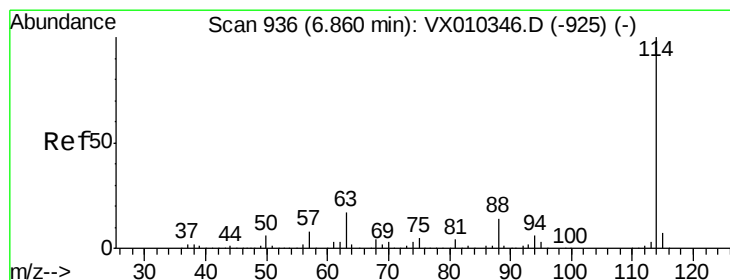
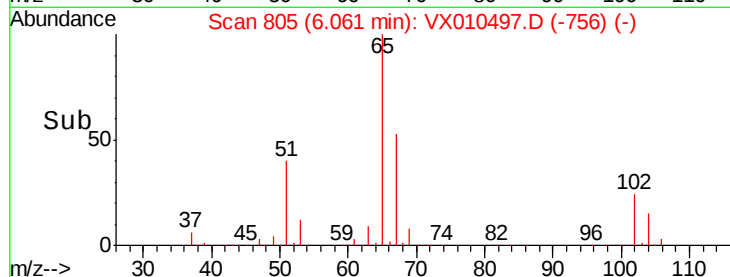
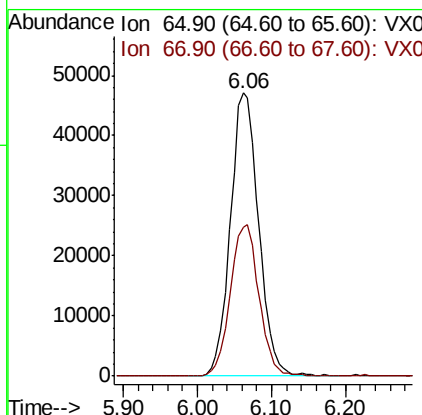
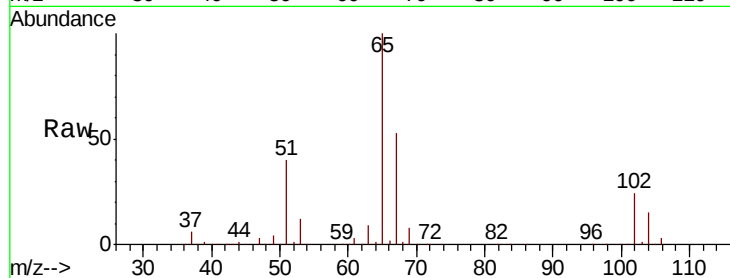




#33
 1,2-Dichloroethane-d4
 Concen: 50.345 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010497.D
 Acq: 27 Jun 2019 18:27

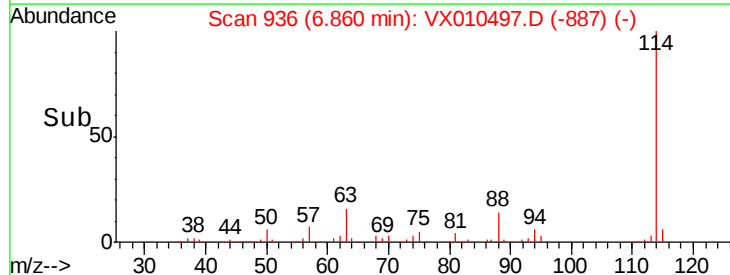
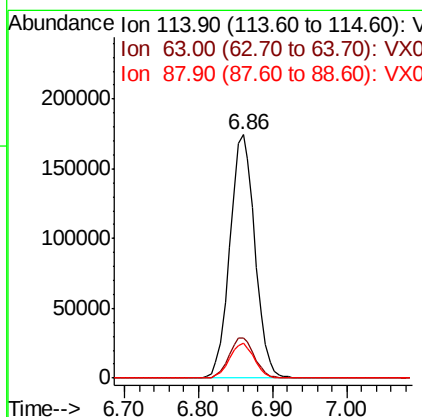
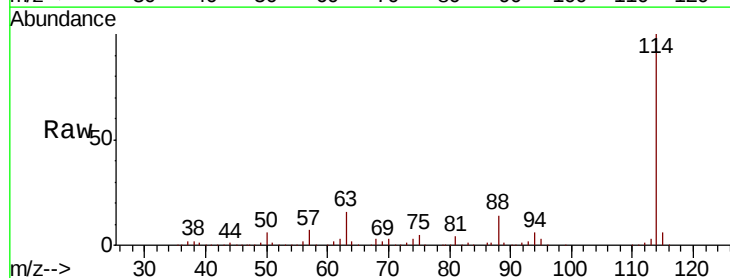
Instrument :
 MSVOA_X
 ClientSampled :

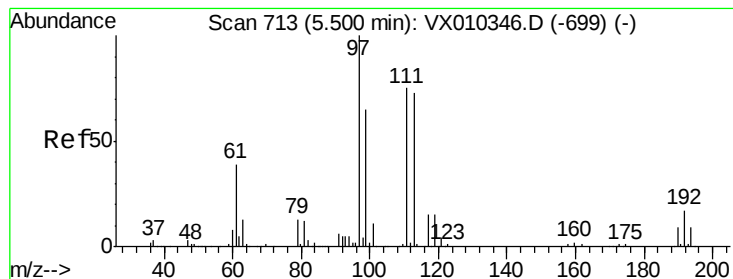
Tot Ion: 65 Resp: 125545
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010497.D
 Acq: 27 Jun 2019 18:27

Tgt Ion: 114 Resp: 410756
 Ion Ratio Lower Upper
 114 100
 63 16.4 0.0 33.8
 88 14.4 0.0 27.6





#35

Dibromofluoromethane

Concen: 49.281 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010497.D

Acq: 27 Jun 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

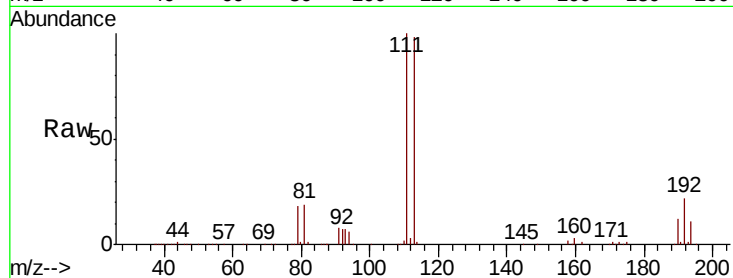
Tot Ion:113 Resp: 123851

Ion Ratio Lower Upper

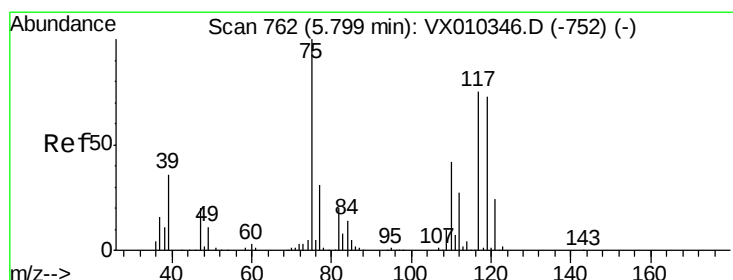
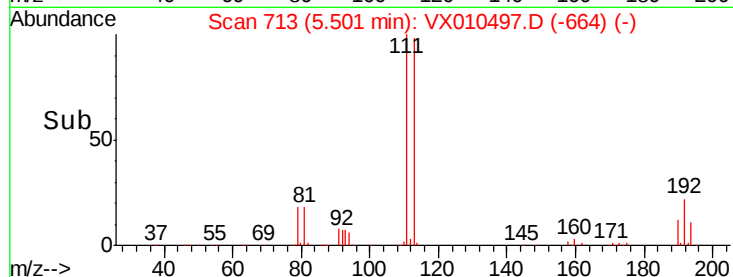
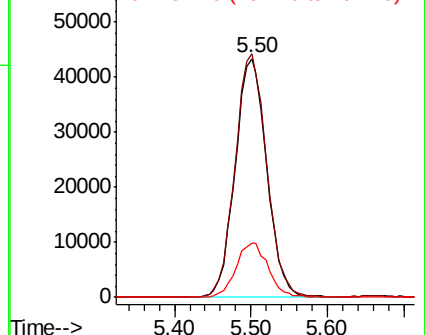
113 100

111 102.2 81.2 121.8

192 23.1 18.6 27.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.993 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010497.D

Acq: 27 Jun 2019 18:27

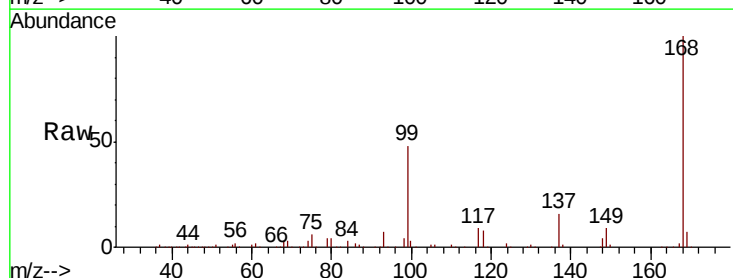
Tgt Ion: 75 Resp: 16296

Ion Ratio Lower Upper

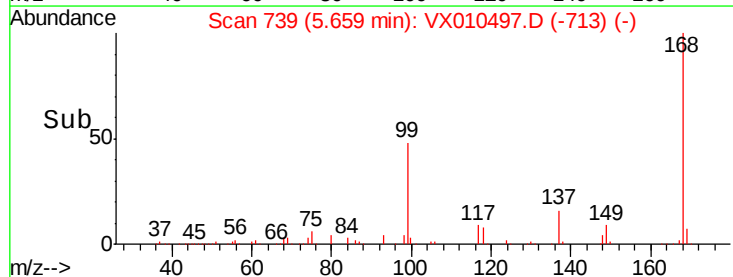
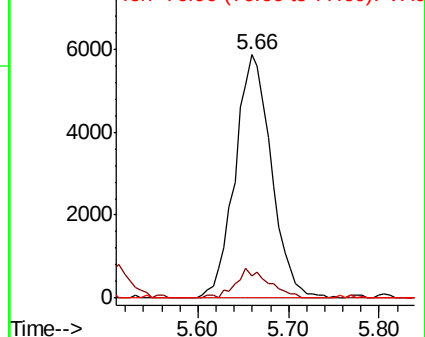
75 100

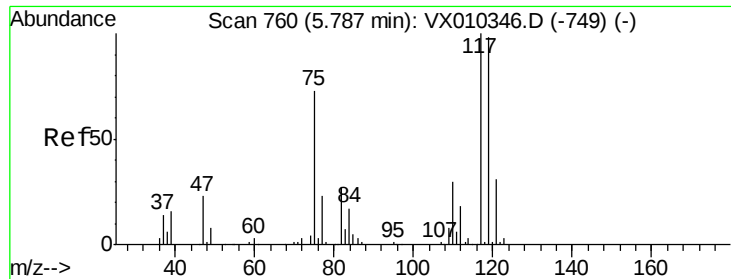
110 11.0 20.8 62.2#

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.692 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010497.D

Acq: 27 Jun 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

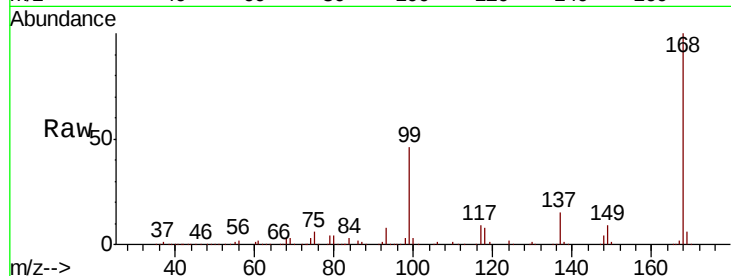
Tot Ion:117 Resp: 23653

Ion Ratio Lower Upper

117 100

119 5.6 78.2 117.4#

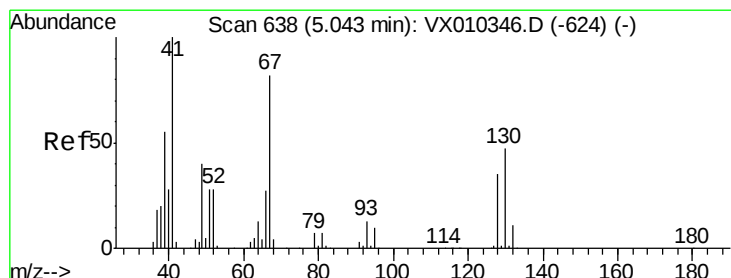
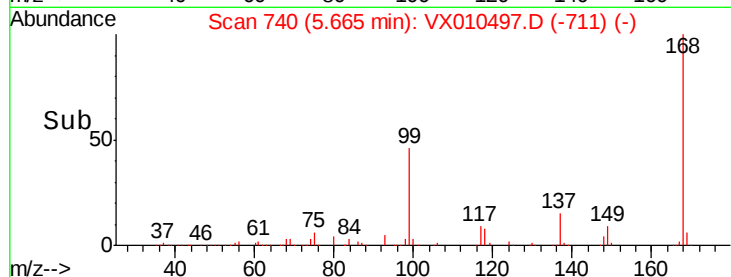
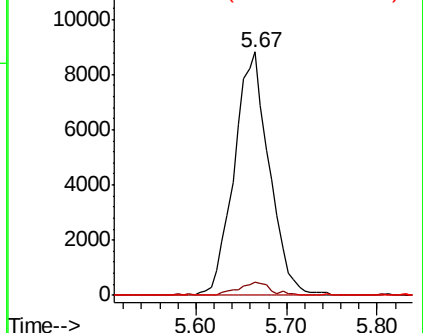
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 20.425 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.09 min

Lab File: VX010497.D

Acq: 27 Jun 2019 18:27

Tgt Ion: 41 Resp: 37632

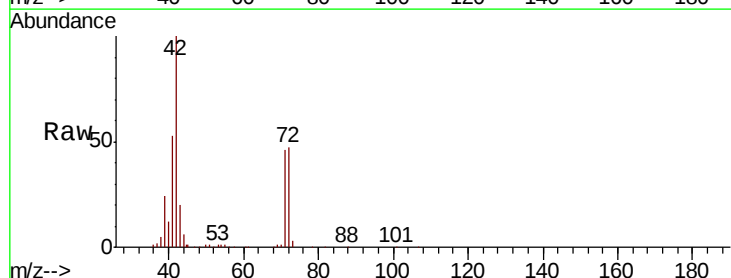
Ion Ratio Lower Upper

41 100

39 47.7 43.8 65.8

67 0.1 66.6 100.0#

52 0.4 24.5 36.7#

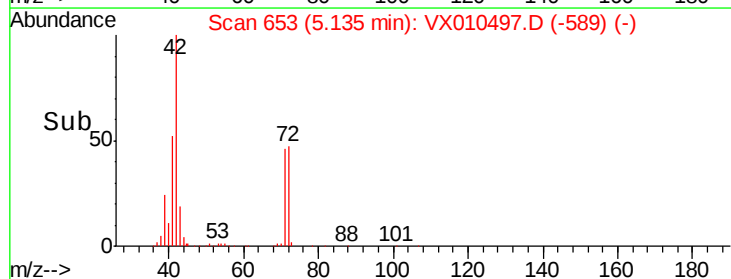
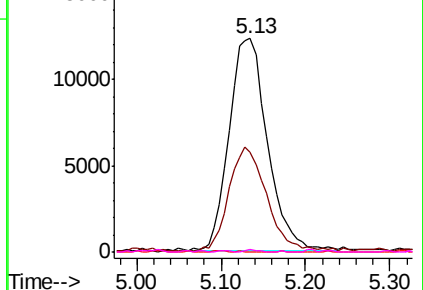


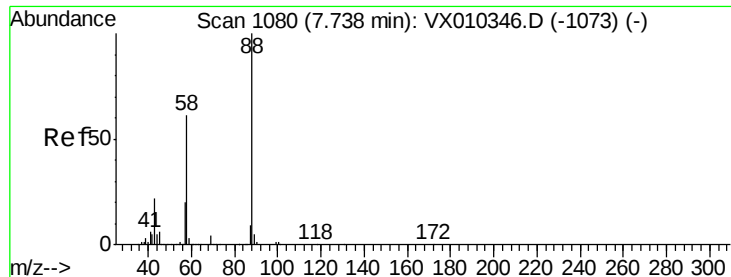
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#49

1,4-Dioxane

Concen: 0.323 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX010497.D

Acq: 27 Jun 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

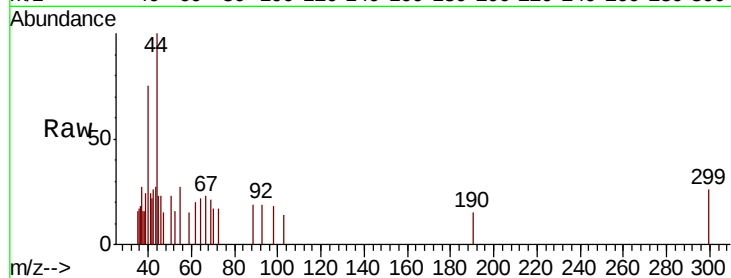
Tot Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 0.0 20.2 30.2#

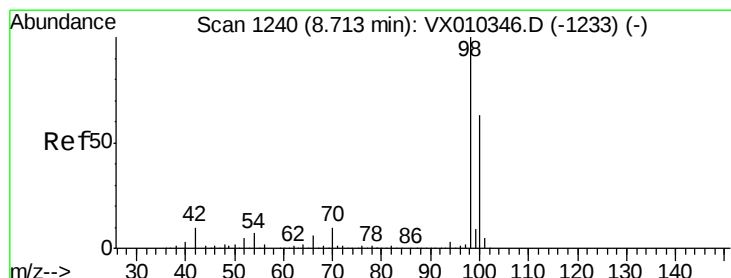
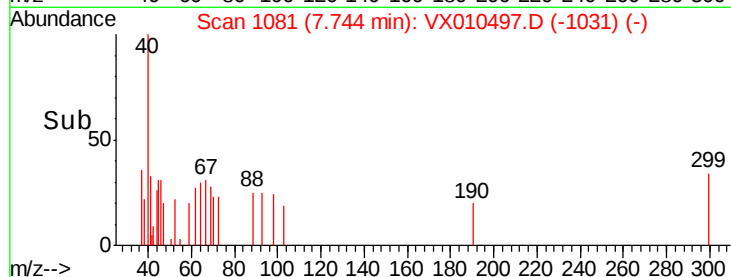
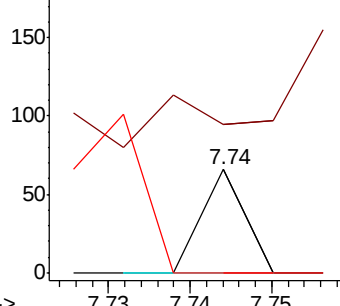
58 254.2 49.5 74.3#



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: 49.632 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010497.D

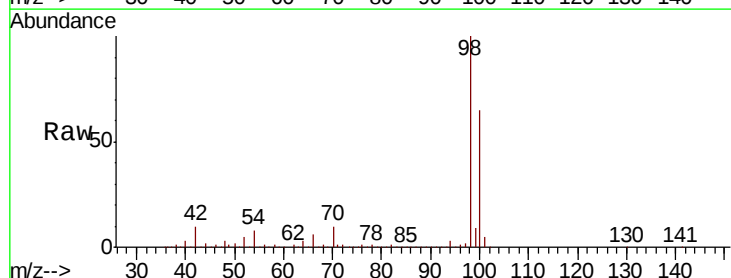
Acq: 27 Jun 2019 18:27

Tgt Ion: 98 Resp: 477207

Ion Ratio Lower Upper

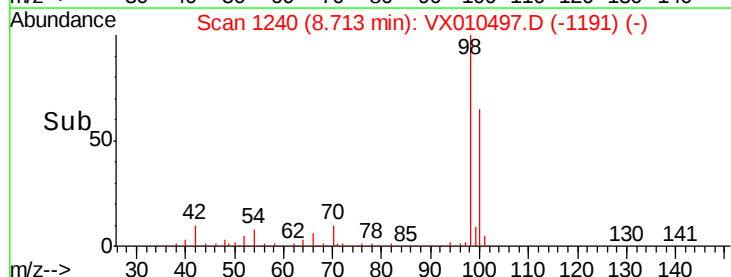
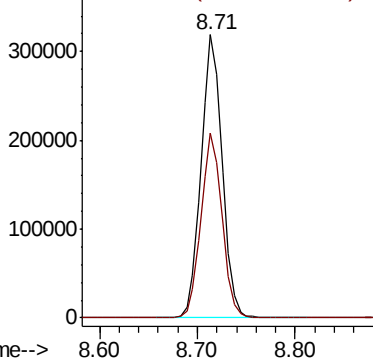
98 100

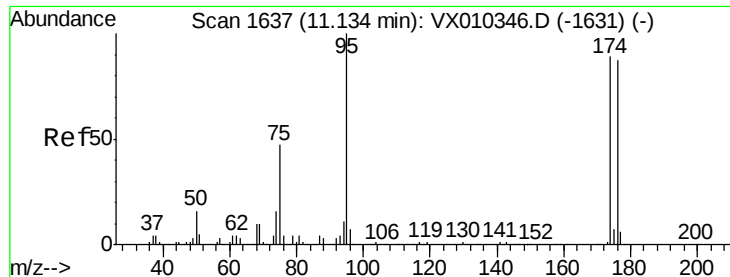
100 65.1 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.810 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010497.D

Acq: 27 Jun 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

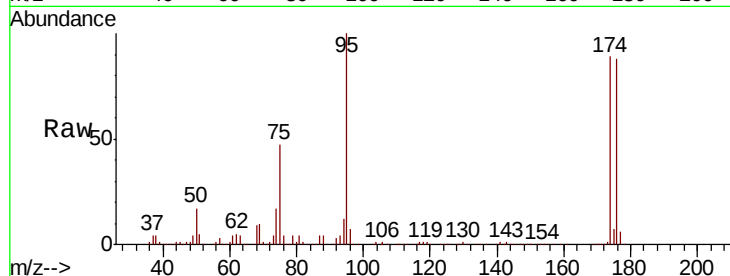
Tot Ion: 95 Resp: 159016

Ion Ratio Lower Upper

95 100

174 95.6 0.0 187.6

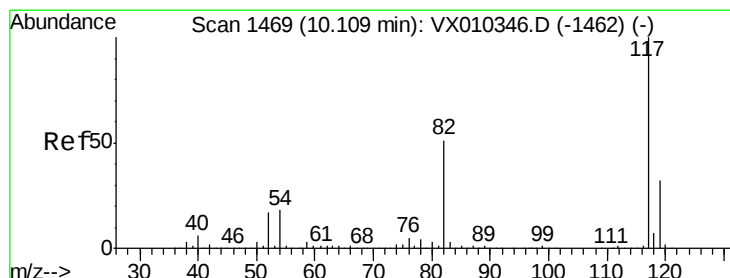
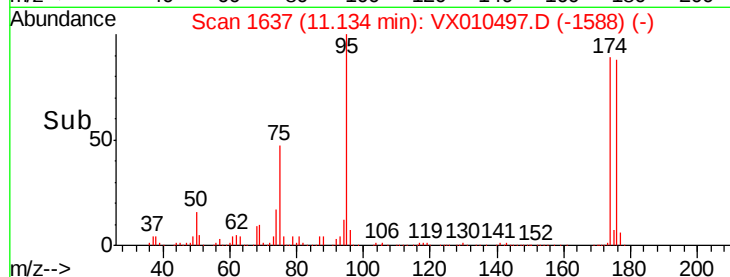
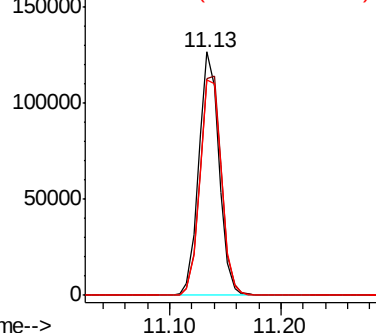
176 94.1 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010497.D

Acq: 27 Jun 2019 18:27

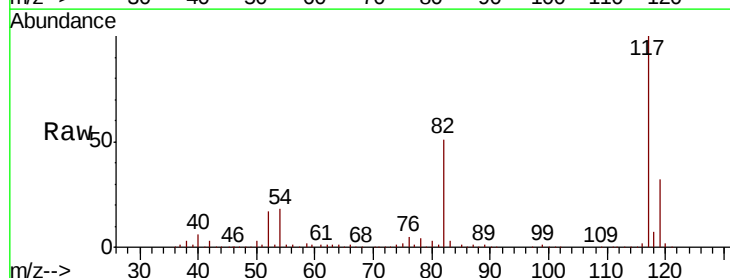
Tgt Ion: 117 Resp: 367604

Ion Ratio Lower Upper

117 100

82 51.0 41.2 61.8

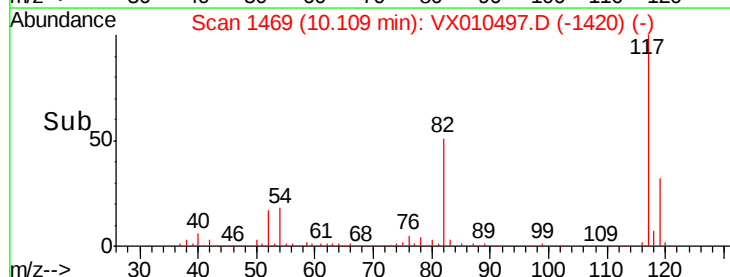
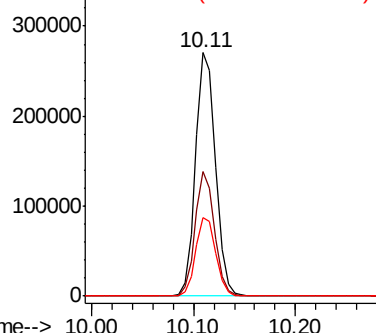
119 32.4 25.5 38.3

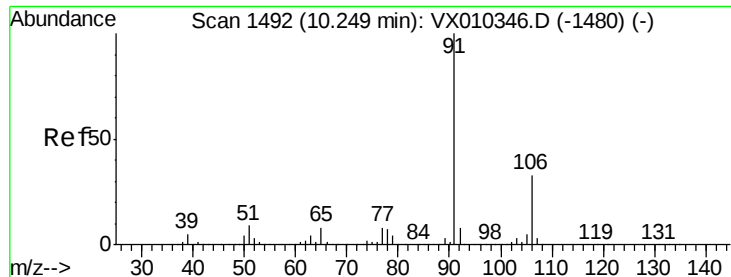


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#67

Ethyl Benzene

Concen: 0.370 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX010497.D

Acq: 27 Jun 2019 18:27

Instrument :

MSVOA_X

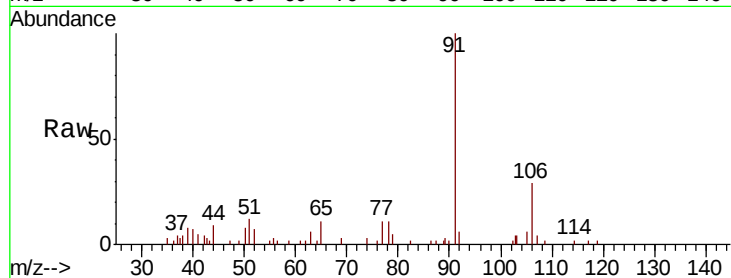
ClientSampleId :

Tot Ion: 91 Resp: 4668

Ion Ratio Lower Upper

91 100

106 29.3 26.2 39.2



Abundance Ion 91.00 (90.70 to 91.70): VX010346.D (-1480) (-)

Ion 106.00 (105.70 to 106.70): VX010346.D (-1480) (-)

8000

6000

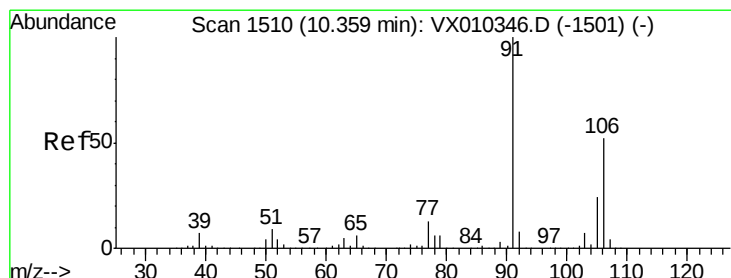
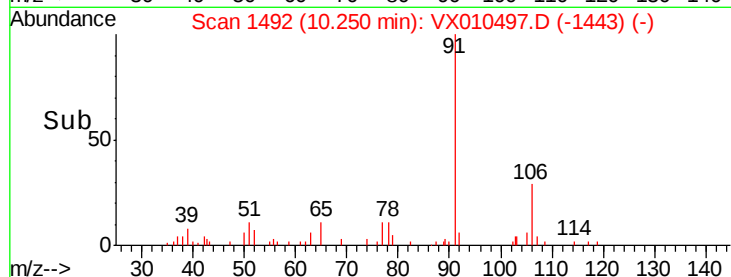
4000

2000

0

10.20 10.25 10.30

Time-->



#68

m/p-Xylenes

Concen: 1.097 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX010497.D

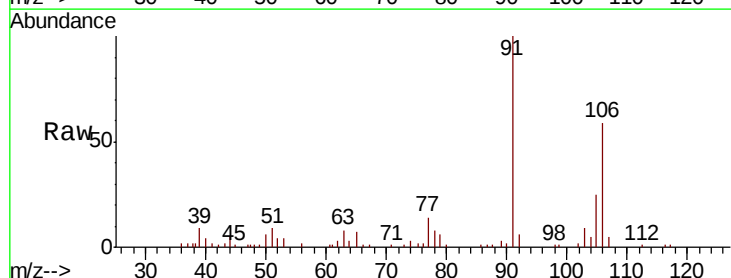
Acq: 27 Jun 2019 18:27

Tgt Ion: 106 Resp: 5356

Ion Ratio Lower Upper

106 100

91 192.8 155.3 232.9



Abundance Ion 106.00 (105.70 to 106.70): VX010346.D (-1501) (-)

Ion 91.00 (90.70 to 91.70): VX010346.D (-1501) (-)

8000

6000

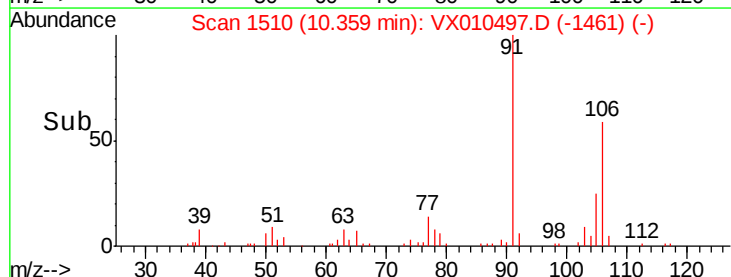
4000

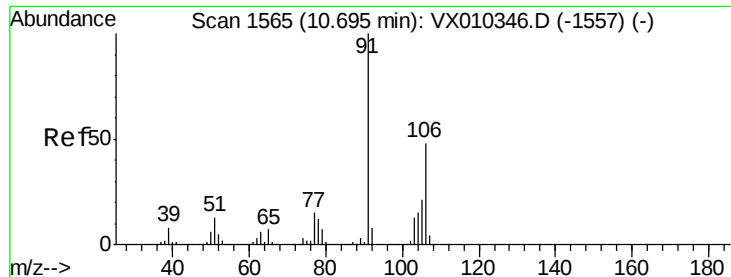
2000

0

10.30 10.35 10.40

Time-->

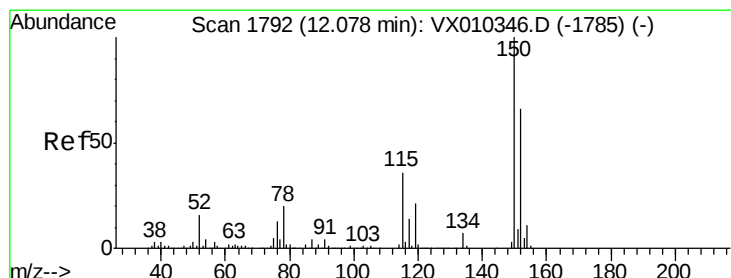
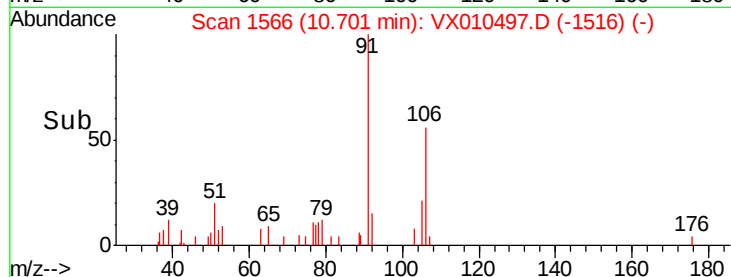
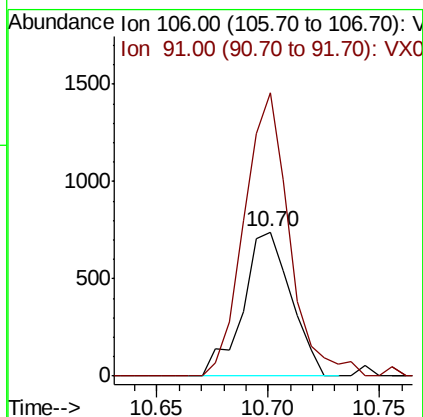
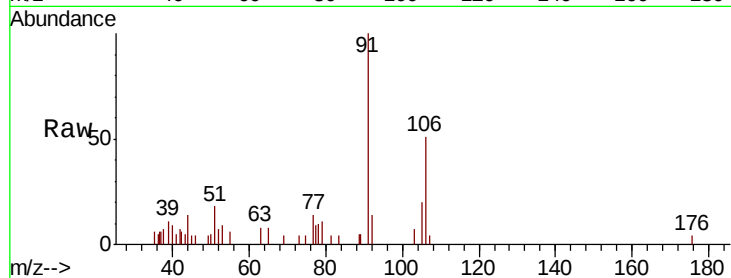




#69
o-Xylene
Concen: 0.232 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX010497.D
Acq: 27 Jun 2019 18:27

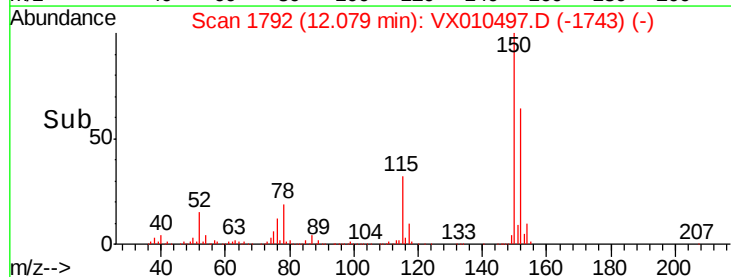
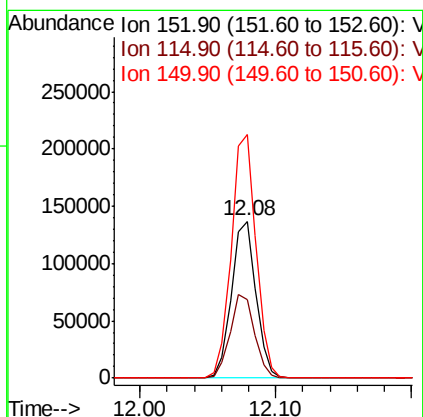
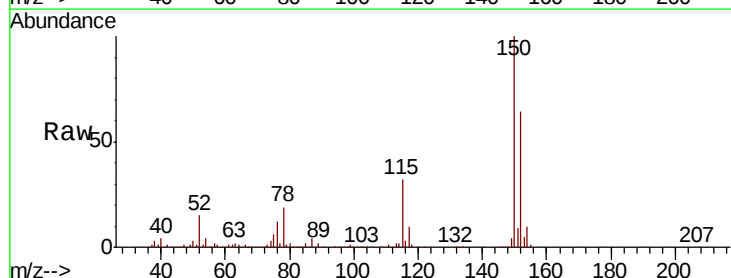
Instrument :
MSVOA_X
ClientSampleId :

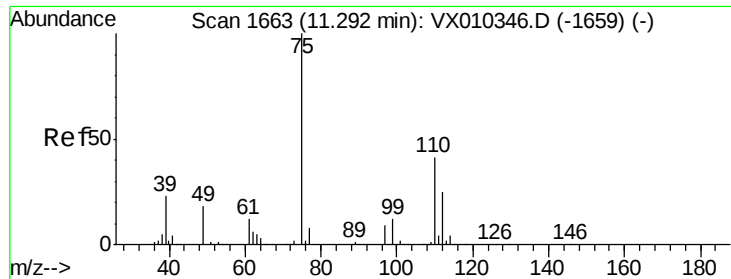
Tot Ion:106 Resp: 1112
Ion Ratio Lower Upper
106 100
91 185.0 102.7 308.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010497.D
Acq: 27 Jun 2019 18:27

Tgt Ion:152 Resp: 171163
Ion Ratio Lower Upper
152 100
115 53.5 38.6 115.7
150 156.6 0.0 347.4



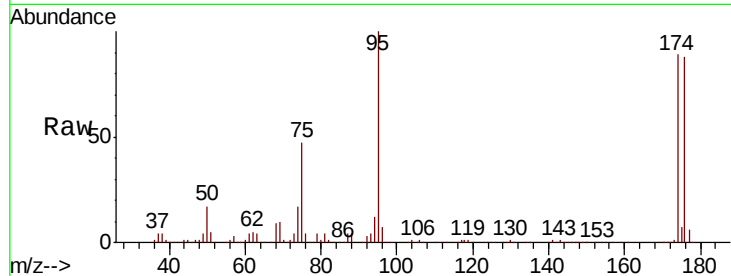


#76

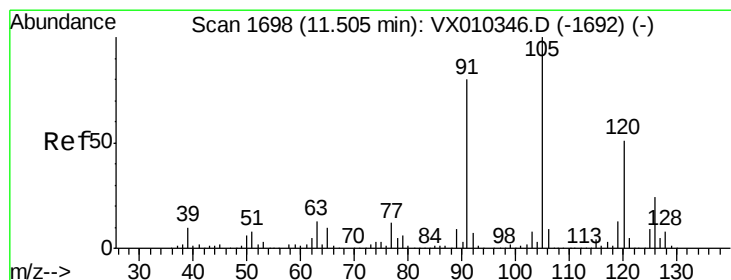
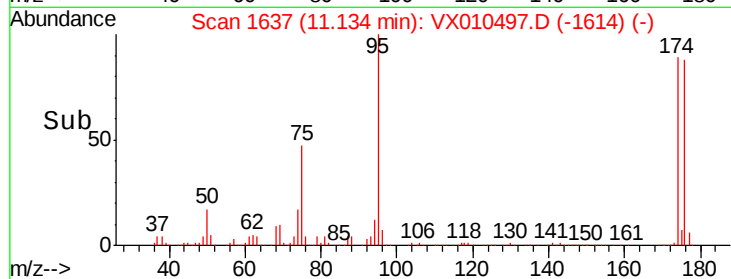
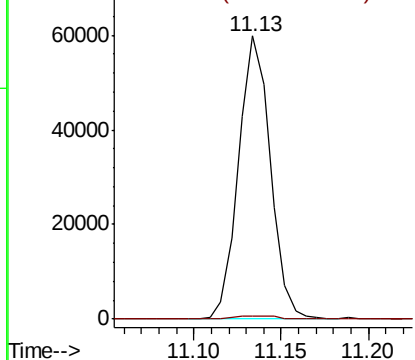
1,2,3-Trichloropropane
Concen: 24.303 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX010497.D
Acq: 27 Jun 2019 18:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 75801
Ion Ratio Lower Upper
75 100
77 1.6 22.6 67.8#



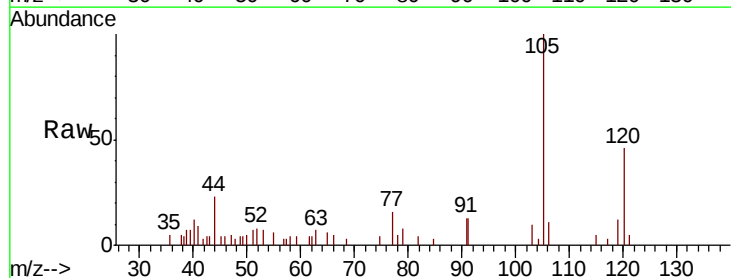
Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0



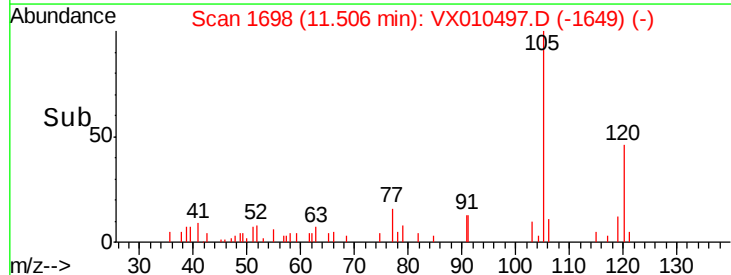
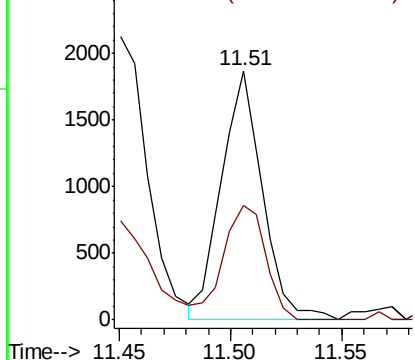
#80

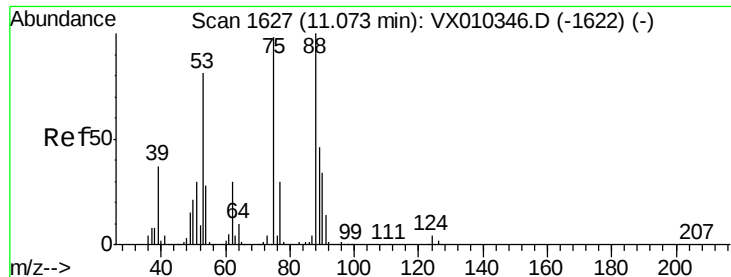
1,3,5-Trimethylbenzene
Concen: 0.250 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VX010497.D
Acq: 27 Jun 2019 18:27

Tgt Ion:105 Resp: 2394
Ion Ratio Lower Upper
105 100
120 47.6 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 56.696 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010497.D

Acq: 27 Jun 2019 18:27

Instrument :

MSVOA_X

ClientSampleId :

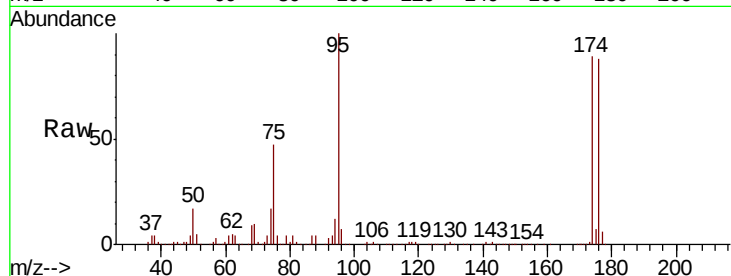
Tot Ion: 75 Resp: 75801

Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

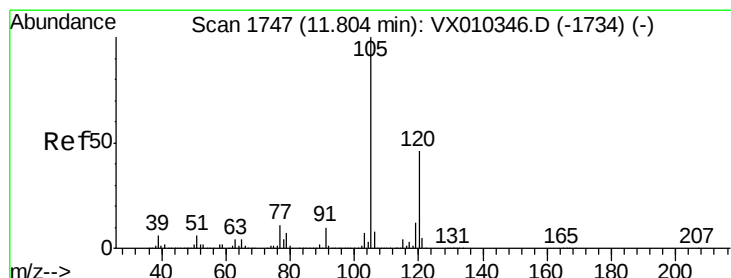
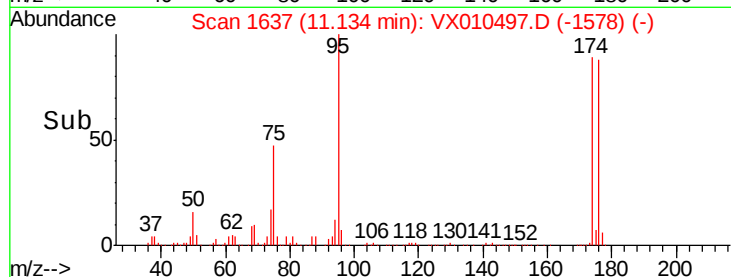
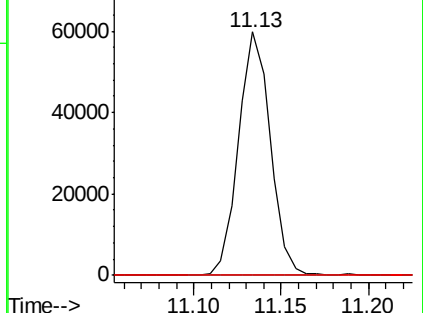
89 0.0 37.8 56.6#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.529 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX010497.D

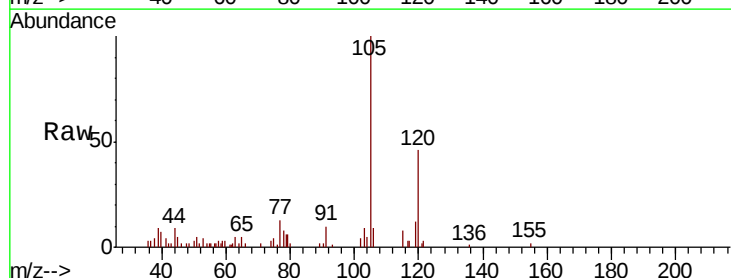
Acq: 27 Jun 2019 18:27

Tgt Ion:105 Resp: 5080

Ion Ratio Lower Upper

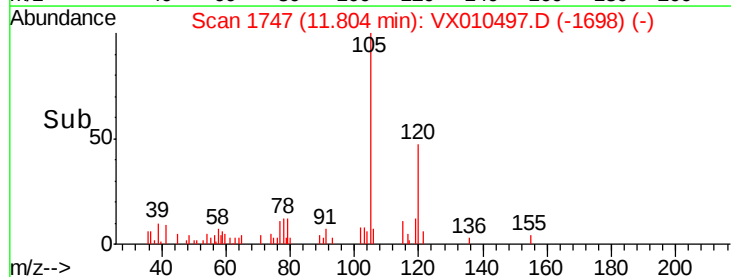
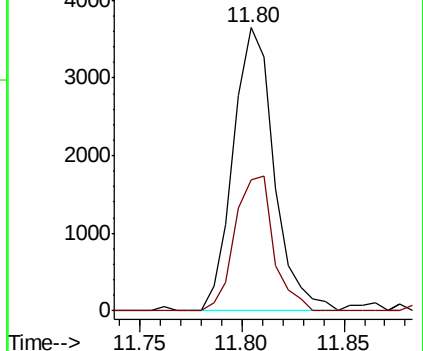
105 100

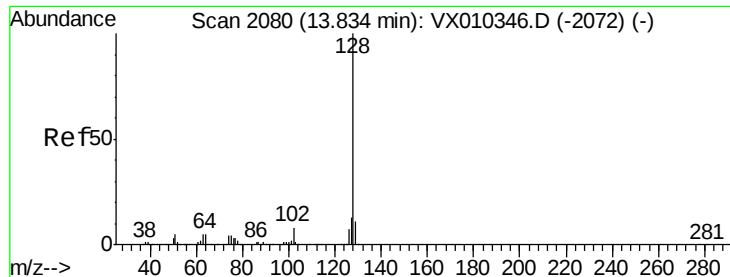
120 45.0 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

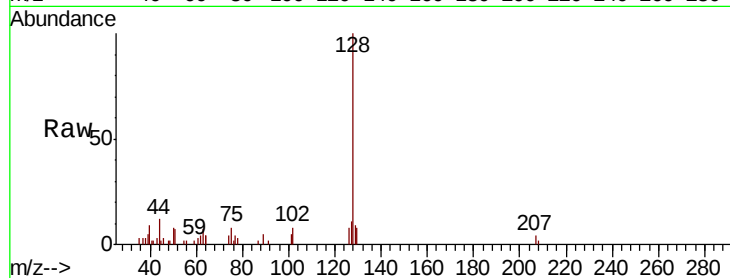




#95
Naphthalene
Concen: 0.370 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX010497.D
Acq: 27 Jun 2019 18:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.2	15.4
129	15.8	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

