

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062519\
 Data File : VX010437.D
 Acq On : 25 Jun 2019 16:42
 Operator : JC/SP
 Sample : K3521-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SY-3D

Quant Time: Jun 26 01:21:07 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	271388	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	417075	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	374421	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	171362	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	128222	50.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.78%	
35) Dibromofluoromethane	5.50	113	126648	49.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.26%	
50) Toluene-d8	8.71	98	493371	50.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.08%	
62) 4-Bromofluorobenzene	11.13	95	163821	46.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.96%	

Target Compounds

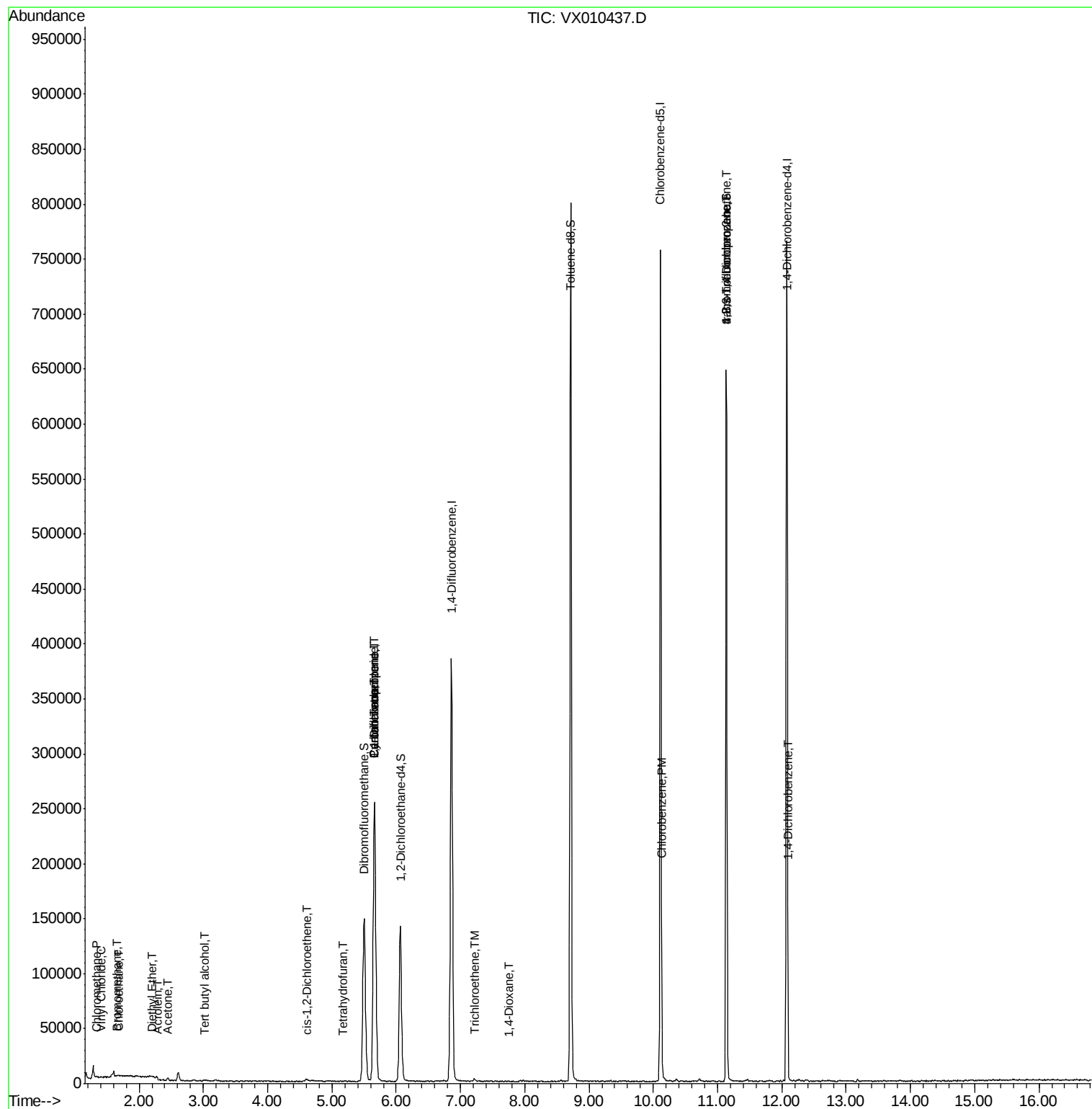
						Qvalue
3) Chloromethane	1.33	50	565	0.257	ug/l #	71
4) Vinyl Chloride	1.41	62	489	0.203	ug/l #	78
5) Bromomethane	1.65	94	606	0.517	ug/l	93
6) Chloroethane	1.68	64	440	0.310	ug/l	93
8) Diethyl Ether	2.20	74	337	0.246	ug/l	53
11) Tert butyl alcohol	3.03	59	1529	2.296	ug/l	97
13) Acrolein	2.29	56	168	0.380	ug/l #	1
16) Acetone	2.44	43	2234	1.752	ug/l	90
27) cis-1,2-Dichloroethene	4.61	96	1135	0.388	ug/l	90
29) Tetrahydrofuran	5.17	42	512	0.442	ug/l #	49
31) Cyclohexane	5.67	56	4186	1.139	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16678	5.032	ug/l #	48
38) Carbon Tetrachloride	5.66	117	24597	6.854	ug/l #	14
44) Trichloroethene	7.22	130	902	0.292	ug/l	98
49) 1,4-Dioxane	7.75	88	89	1.178	ug/l #	36
65) Chlorobenzene	10.13	112	2046	0.269	ug/l #	85
76) 1,2,3-Trichloropropane	11.13	75	77276	24.747	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	77276	57.732	ug/l #	16
88) 1,4-Dichlorobenzene	12.10	146	1287	0.223	ug/l #	1

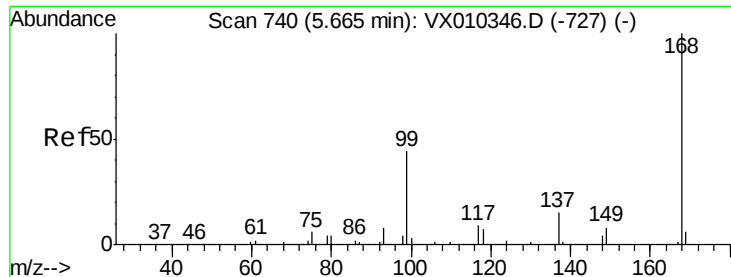
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010437.D

Acq: 25 Jun 2019 16:42

Instrument :

MSVOA_X

ClientSampleId :

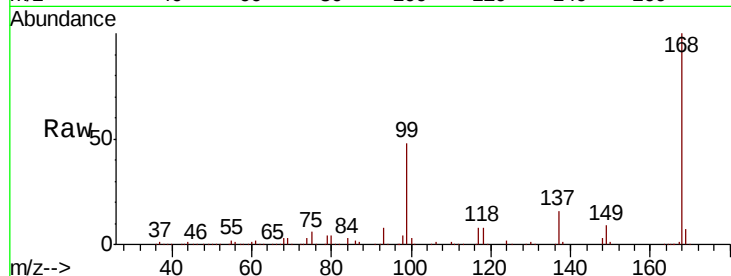
SY-3D

Tot Ion:168 Resp: 271388

Ion Ratio Lower Upper

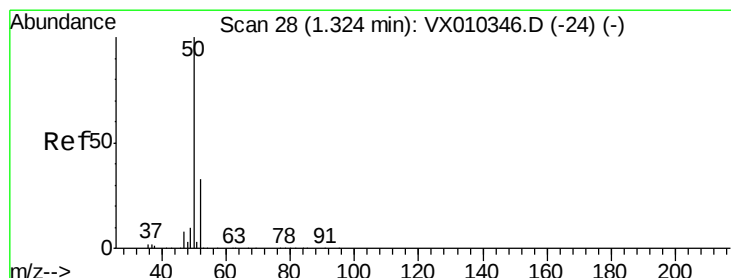
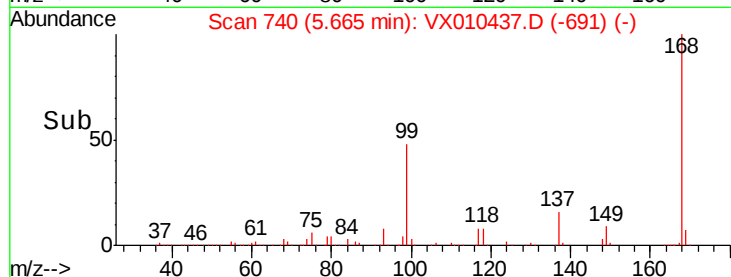
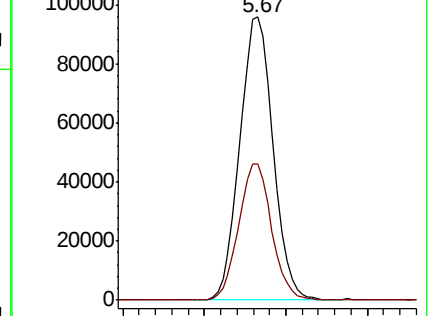
168 100

99 48.2 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.257 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010437.D

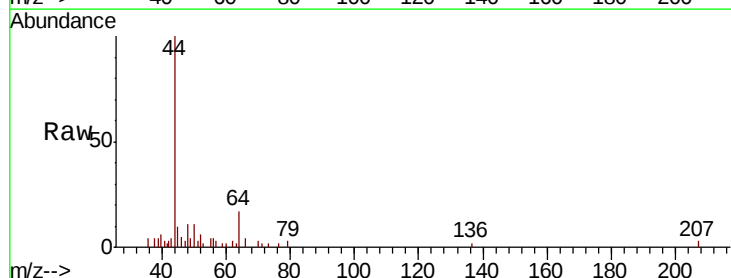
Acq: 25 Jun 2019 16:42

Tgt Ion: 50 Resp: 565

Ion Ratio Lower Upper

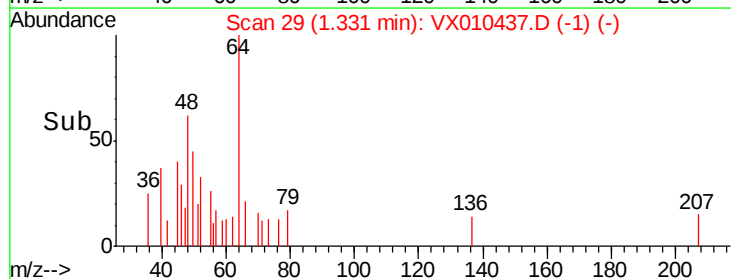
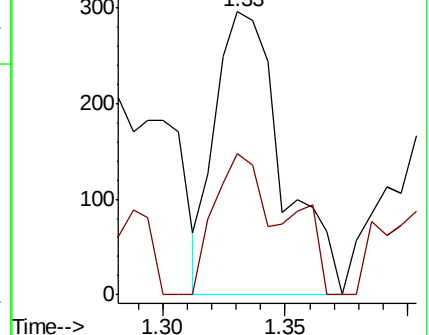
50 100

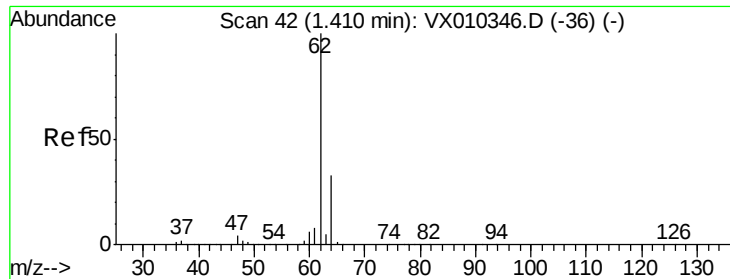
52 49.7 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.203 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010437.D

Acq: 25 Jun 2019 16:42

Instrument :

MSVOA_X

ClientSampled :

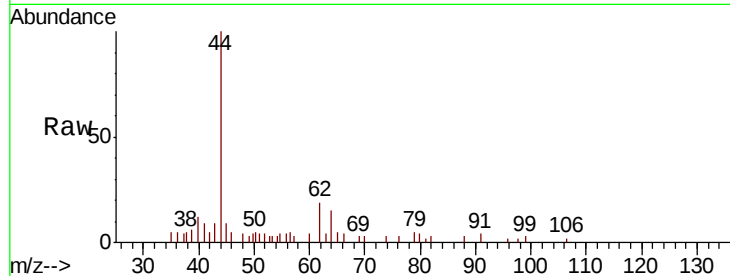
SY-3D

Tot Ion: 62 Resp: 489

Ion Ratio Lower Upper

62 100

64 20.4 26.2 39.4#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

500

400

300

200

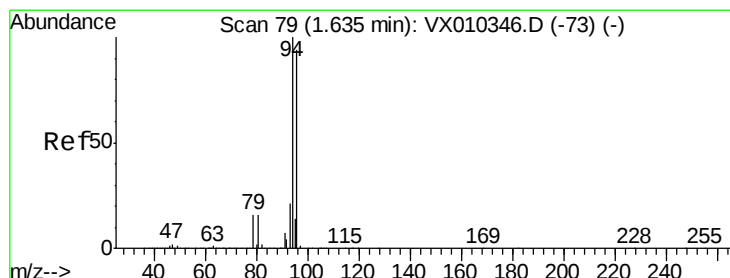
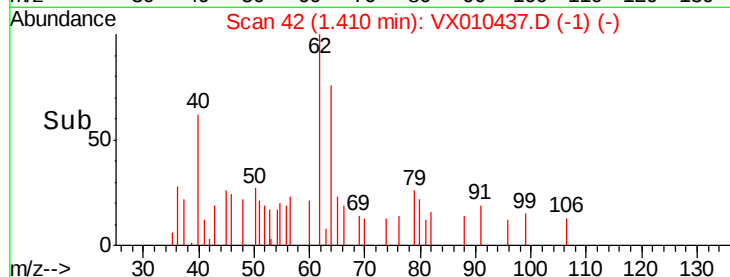
100

0

1.41

1.45

Time-->



#5

Bromomethane

Concen: 0.517 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010437.D

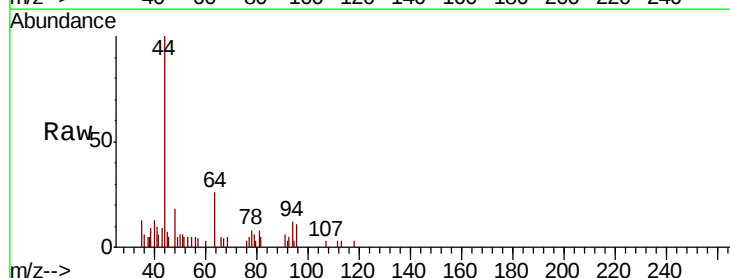
Acq: 25 Jun 2019 16:42

Tgt Ion: 94 Resp: 606

Ion Ratio Lower Upper

94 100

96 87.4 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

150

100

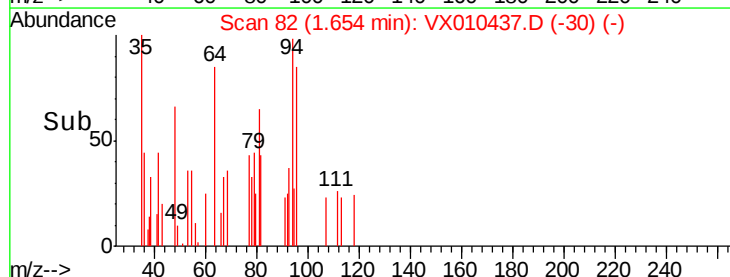
50

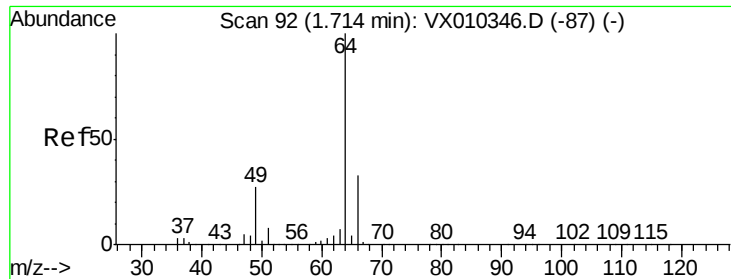
0

1.65

1.70

Time-->





#6

Chloroethane

Concen: 0.310 ug/l

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX010437.D

Acq: 25 Jun 2019 16:42

Instrument :

MSVOA_X

ClientSampleId :

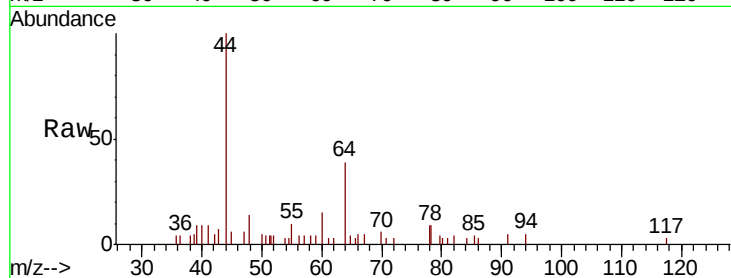
SY-3D

Tot Ion: 64 Resp: 440

Ion Ratio Lower Upper

64 100

66 29.3 26.6 40.0



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.68

800

600

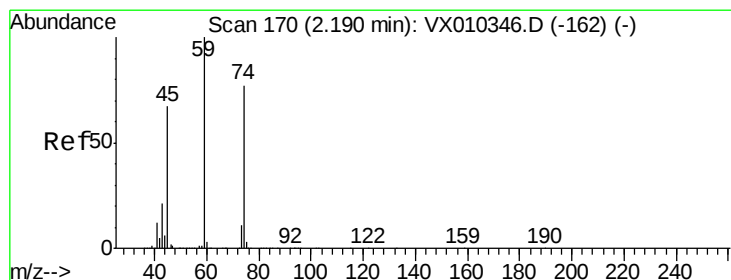
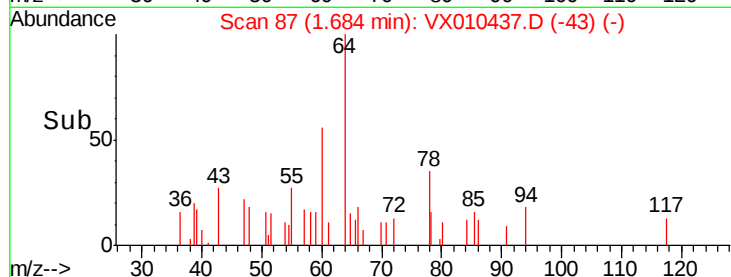
400

200

0

1.64 1.66 1.68 1.70

Time-->



#8

Diethyl Ether

Concen: 0.246 ug/l

RT: 2.20 min Scan# 172

Delta R.T. 0.01 min

Lab File: VX010437.D

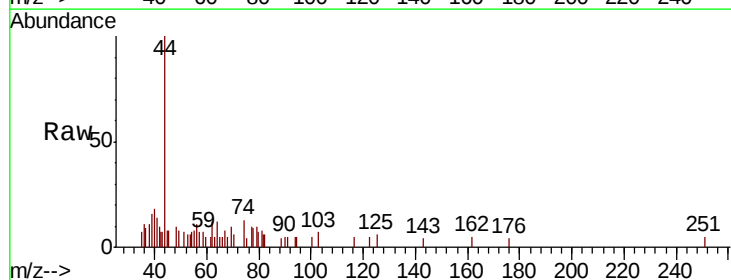
Acq: 25 Jun 2019 16:42

Tgt Ion: 74 Resp: 337

Ion Ratio Lower Upper

74 100

45 45.7 44.8 134.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

300

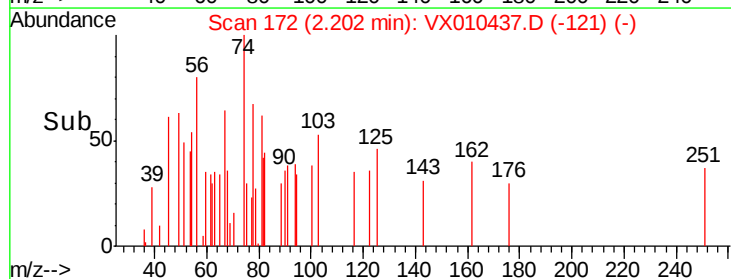
200

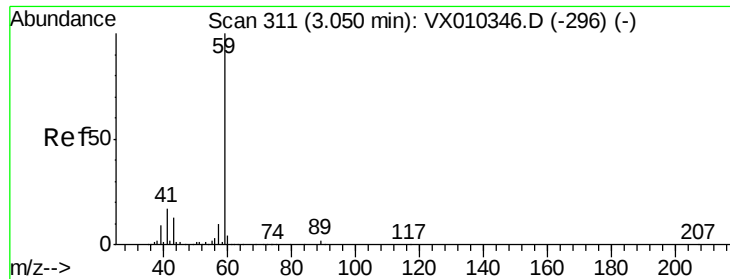
100

0

2.15 2.20

Time-->

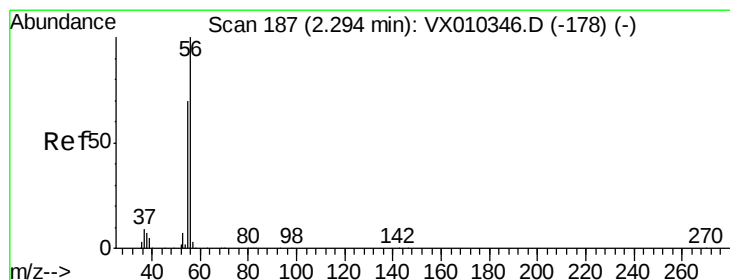
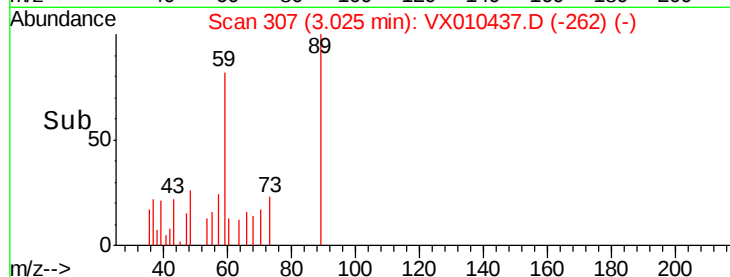
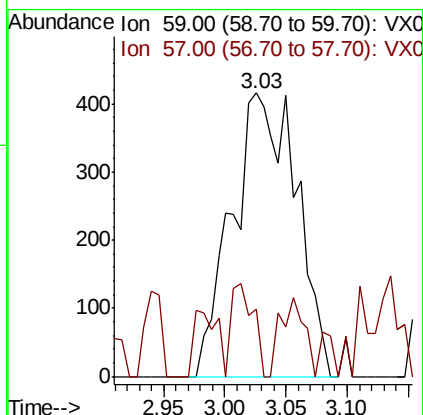
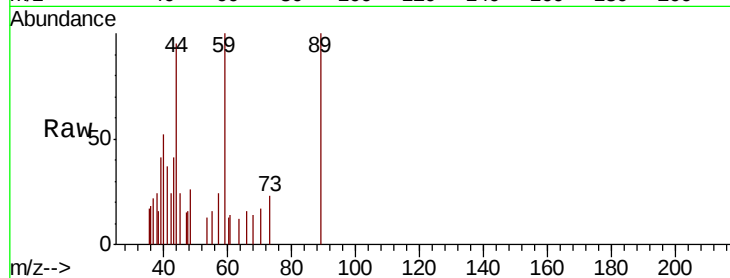




#11
Tert butyl alcohol
Concen: 2.296 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX010437.D
Acq: 25 Jun 2019 16:42

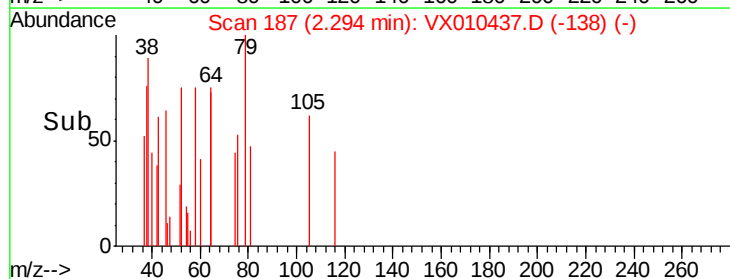
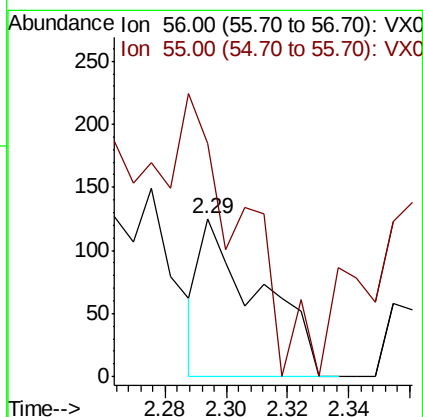
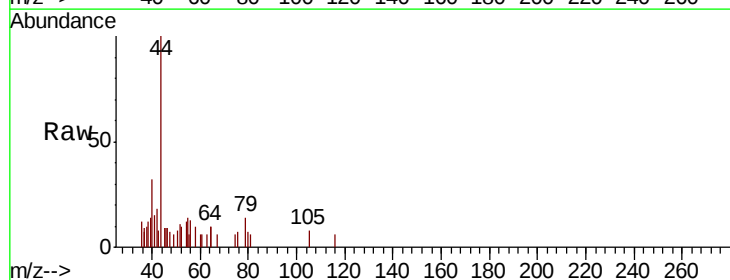
Instrument :
MSVOA_X
ClientSampleId :
SY-3D

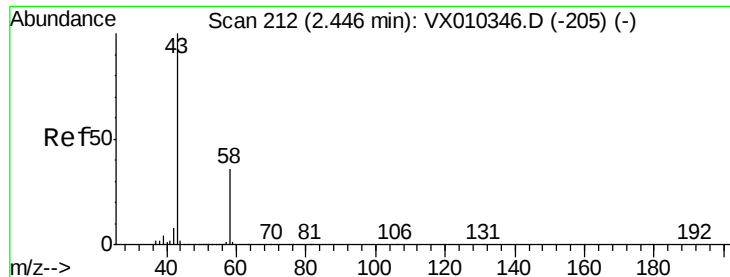
Tot Ion: 59 Resp: 1529
Ion Ratio Lower Upper
59 100
57 10.9 7.7 11.5



#13
Acrolein
Concen: 0.380 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX010437.D
Acq: 25 Jun 2019 16:42

Tgt Ion: 56 Resp: 168
Ion Ratio Lower Upper
56 100
55 351.2 56.9 85.3#





#16

Acetone

Concen: 1.752 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010437.D

Acq: 25 Jun 2019 16:42

Instrument :

MSVOA_X

ClientSampleId :

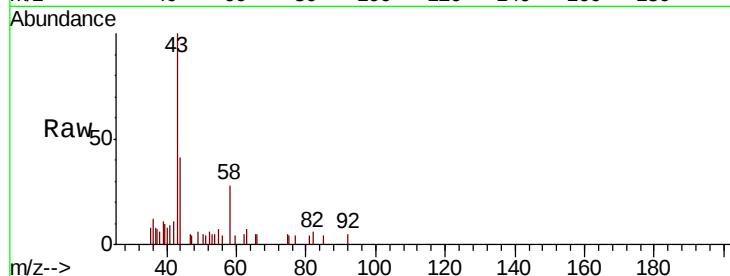
SY-3D

Tot Ion: 43 Resp: 2234

Ion Ratio Lower Upper

43 100

58 30.0 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

1500

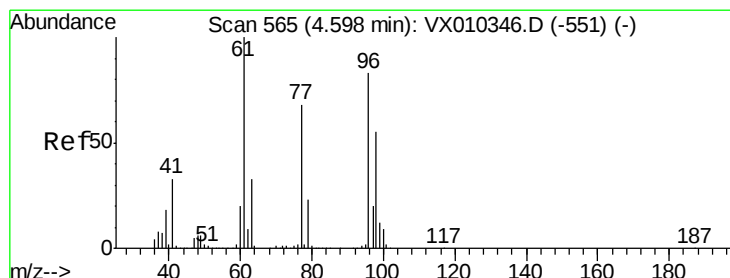
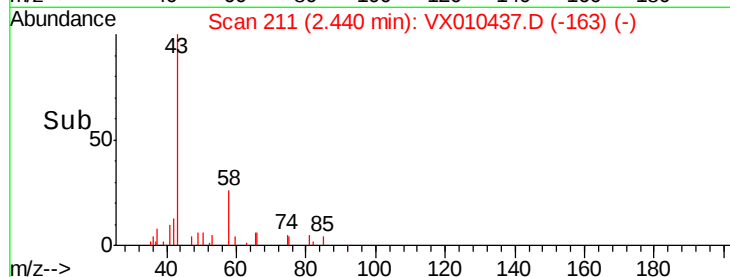
1000

500

0

2.40 2.45 2.50

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.388 ug/l

RT: 4.61 min Scan# 567

Delta R.T. 0.01 min

Lab File: VX010437.D

Acq: 25 Jun 2019 16:42

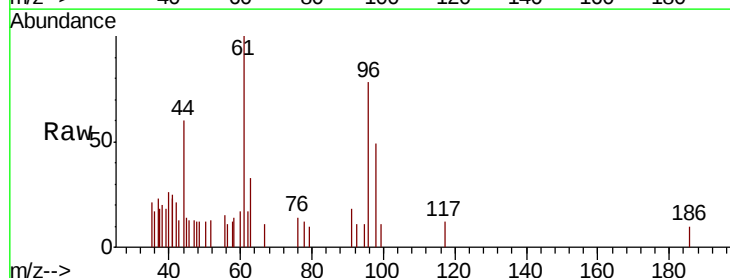
Tgt Ion: 96 Resp: 1135

Ion Ratio Lower Upper

96 100

61 134.1 0.0 251.8

98 76.5 0.0 129.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

600

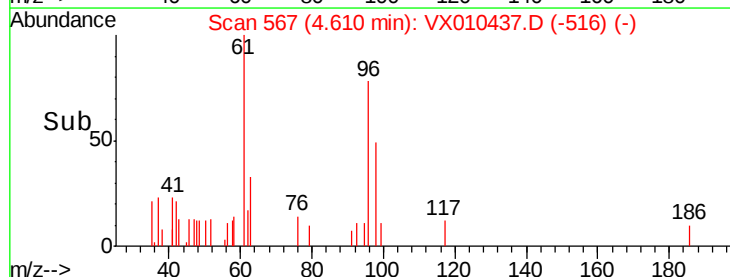
400

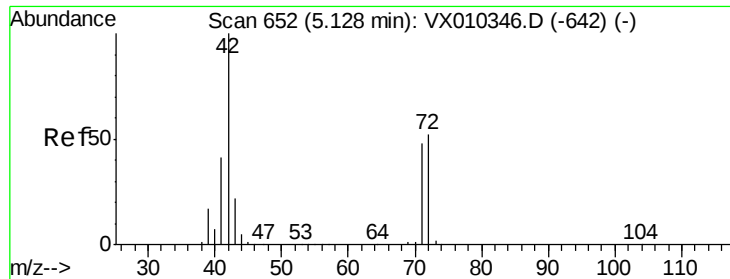
200

0

4.55 4.60 4.65

Time-->





#29

Tetrahydrofuran

Concen: 0.442 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.04 min

Lab File: VX010437.D

Acq: 25 Jun 2019 16:42

Instrument :

MSVOA_X

ClientSampleId :

SY-3D

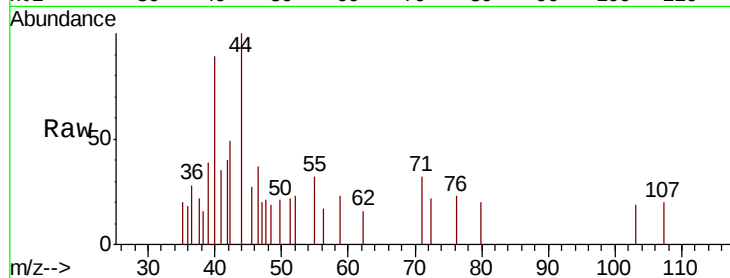
Tot Ion: 42 Resp: 512

Ion Ratio Lower Upper

42 100

72 9.8 40.6 60.8#

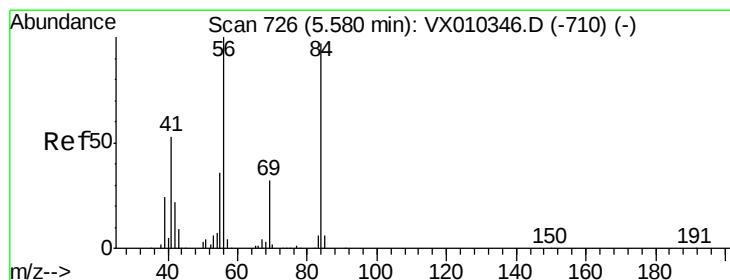
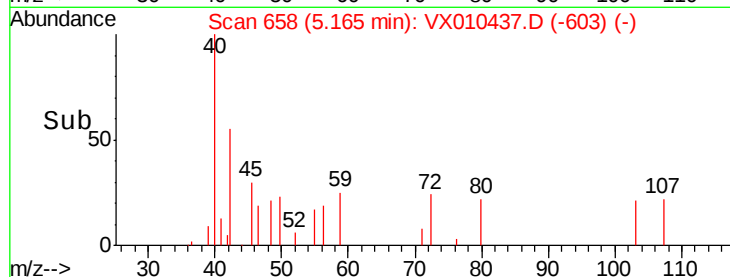
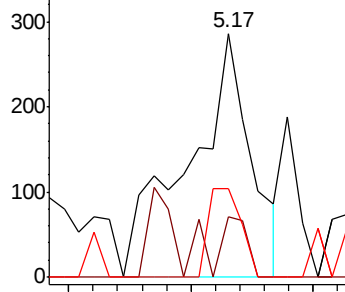
71 19.3 37.8 56.8#



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



#31

Cyclohexane

Concen: 1.139 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX010437.D

Acq: 25 Jun 2019 16:42

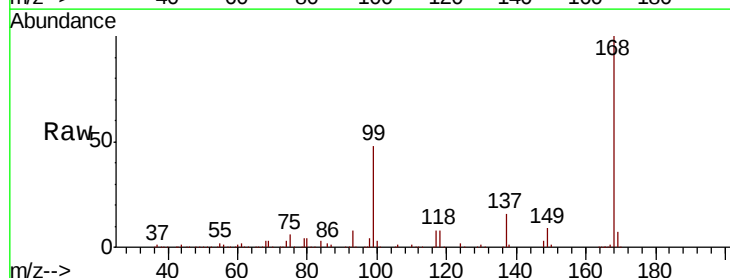
Tgt Ion: 56 Resp: 4186

Ion Ratio Lower Upper

56 100

69 175.6 25.9 38.9#

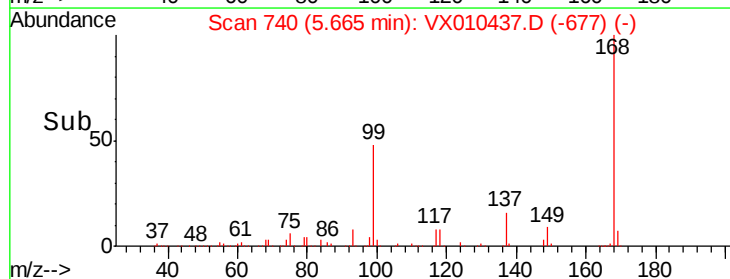
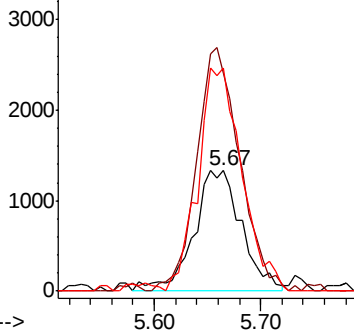
84 179.8 78.0 117.0#

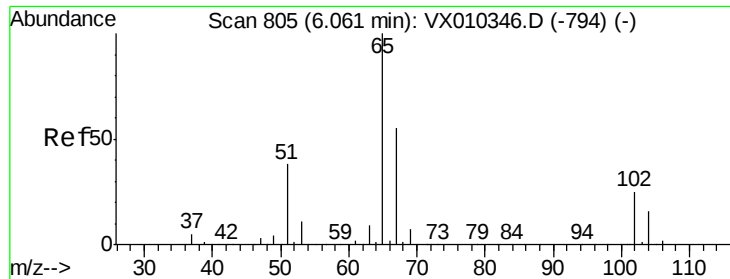


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

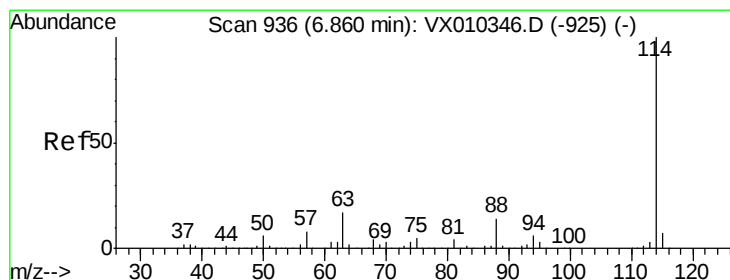
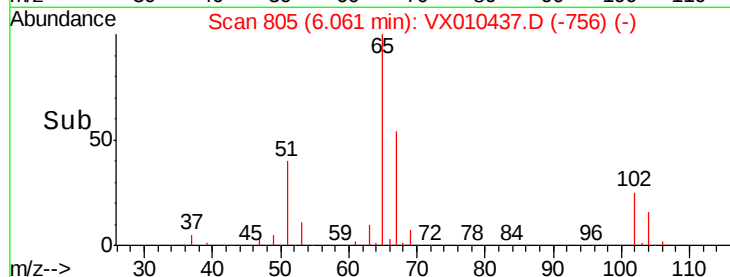
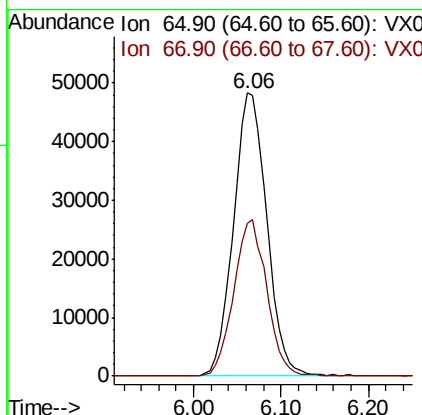
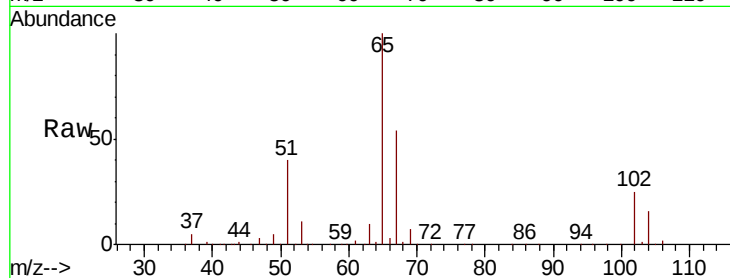




#33
 1,2-Dichloroethane-d4
 Concen: 50.391 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010437.D
 Acq: 25 Jun 2019 16:42

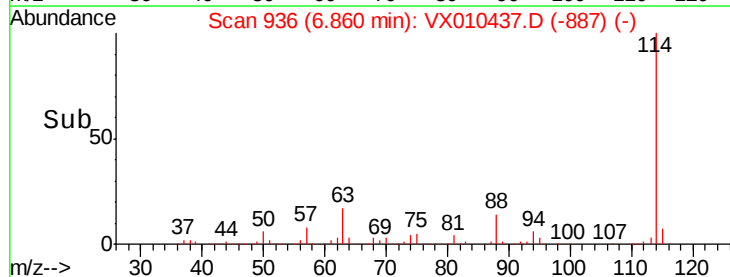
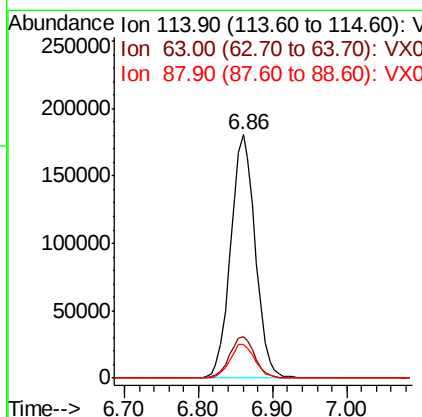
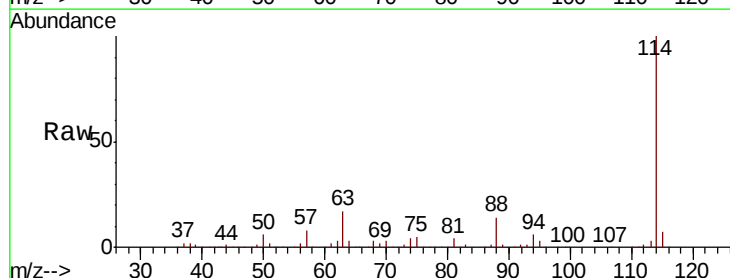
Instrument :
 MSVOA_X
 ClientSampled :
 SY-3D

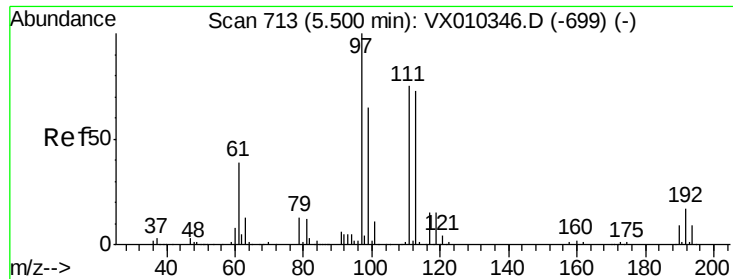
Tot Ion: 65 Resp: 128222
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010437.D
 Acq: 25 Jun 2019 16:42

Tgt Ion: 114 Resp: 417075
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 33.8
 88 13.8 0.0 27.6

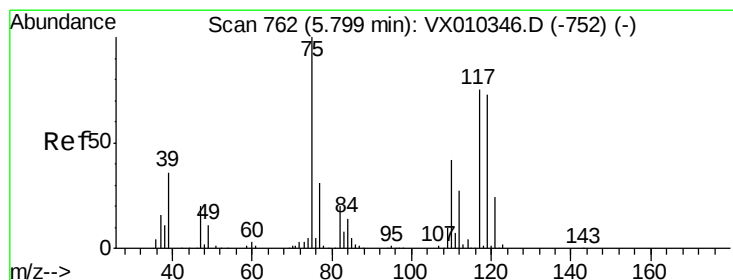
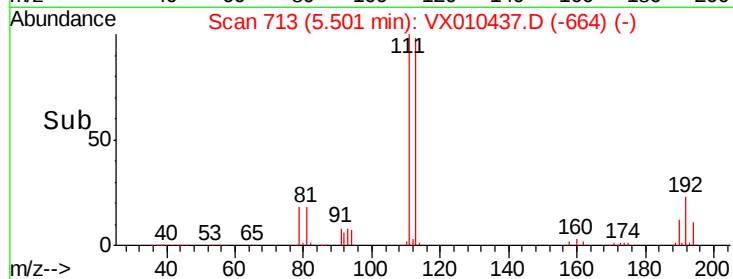
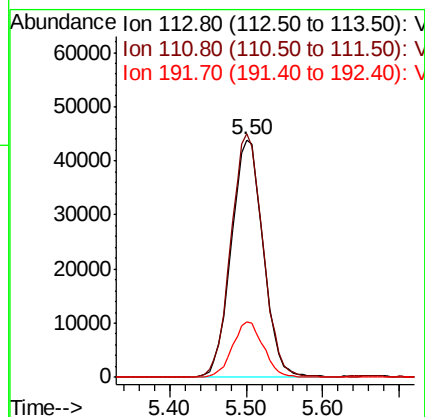
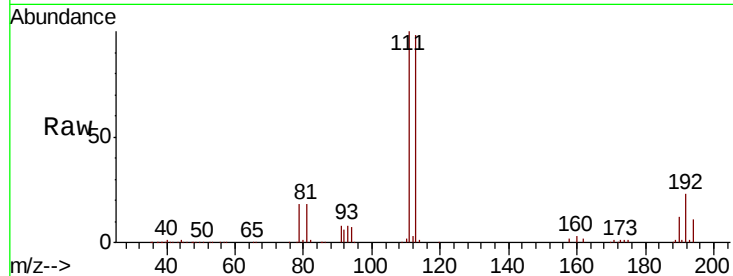




#35
 Dibromofluoromethane
 Concen: 49.631 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010437.D
 Acq: 25 Jun 2019 16:42

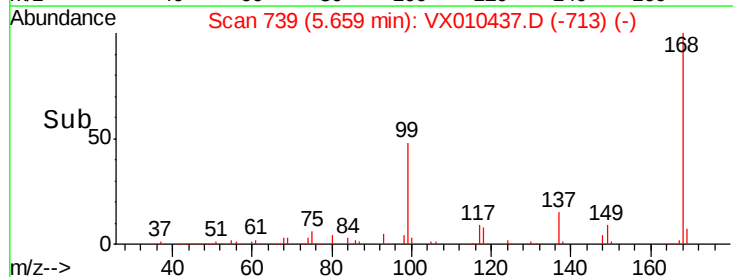
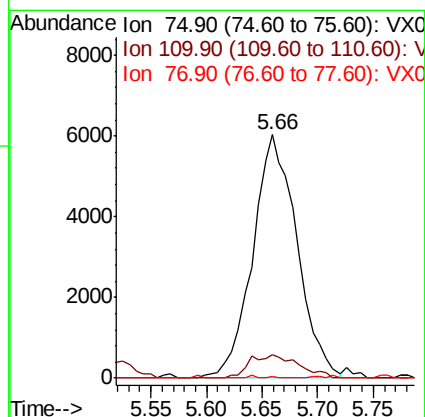
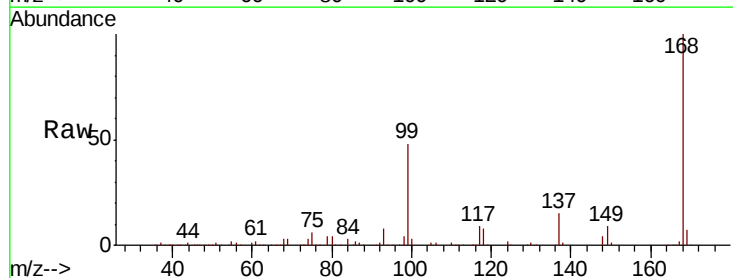
Instrument :
 MSVOA_X
 ClientSampleId :
 SY-3D

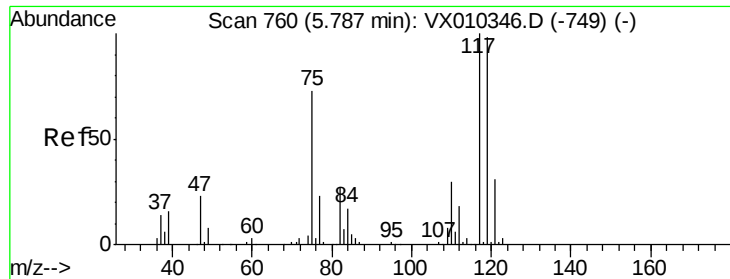
Tot Ion:113 Resp: 126648
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.2 121.8
 192 22.8 18.6 27.8



#36
 1,1-Dichloropropene
 Concen: 5.032 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010437.D
 Acq: 25 Jun 2019 16:42

Tgt Ion: 75 Resp: 16678
 Ion Ratio Lower Upper
 75 100
 110 10.8 20.8 62.2#
 77 0.1 25.4 38.0#

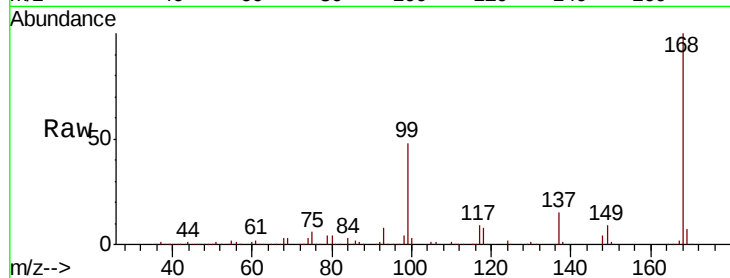




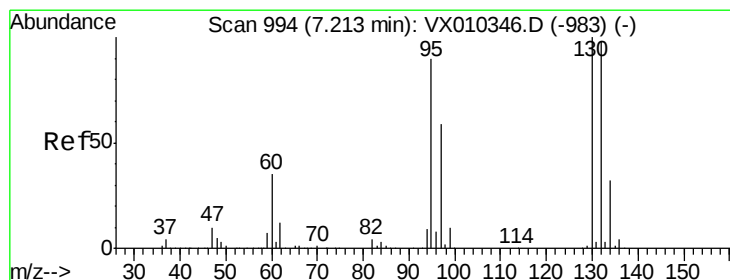
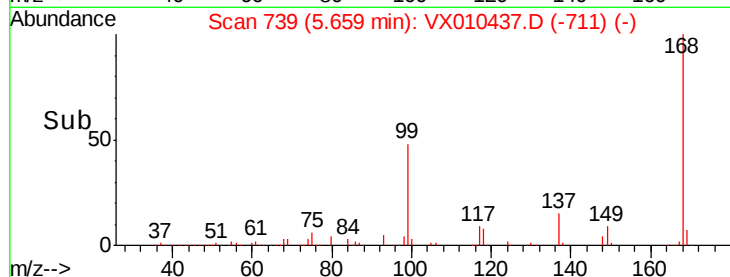
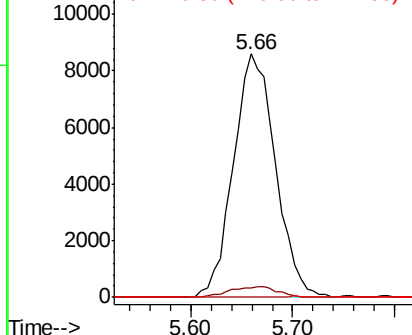
#38
Carbon Tetrachloride
Concen: 6.854 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX010437.D
Acq: 25 Jun 2019 16:42

Instrument :
MSVOA_X
ClientSampleId :
SY-3D

Tot Ion:117 Resp: 24597
Ion Ratio Lower Upper
117 100
119 3.8 78.2 117.4#
121 0.0 24.7 37.1#

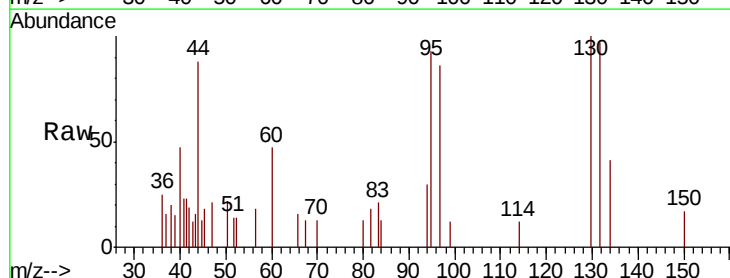


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

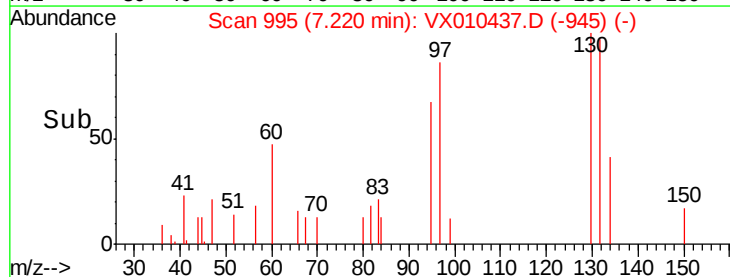
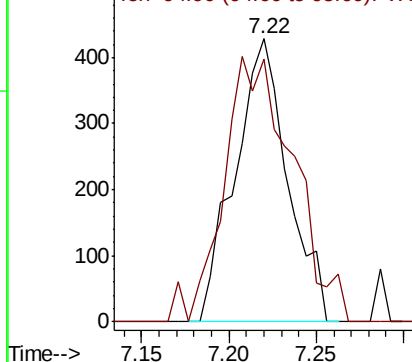


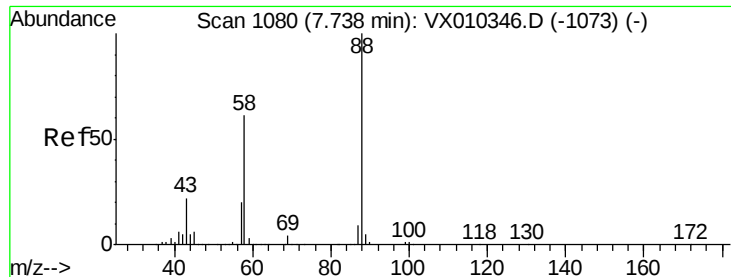
#44
Trichloroethene
Concen: 0.292 ug/l
RT: 7.22 min Scan# 995
Delta R.T. 0.01 min
Lab File: VX010437.D
Acq: 25 Jun 2019 16:42

Tgt Ion:130 Resp: 902
Ion Ratio Lower Upper
130 100
95 92.8 0.0 180.8



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0

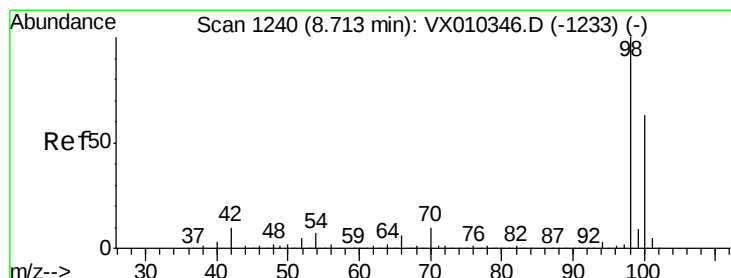
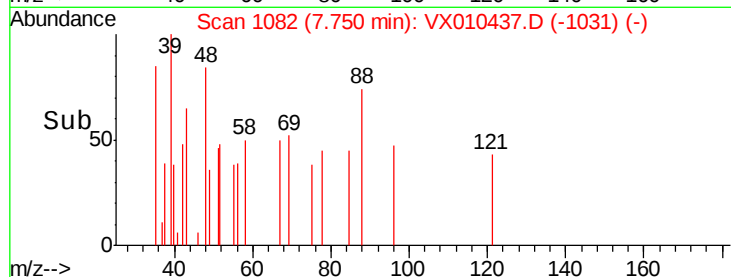
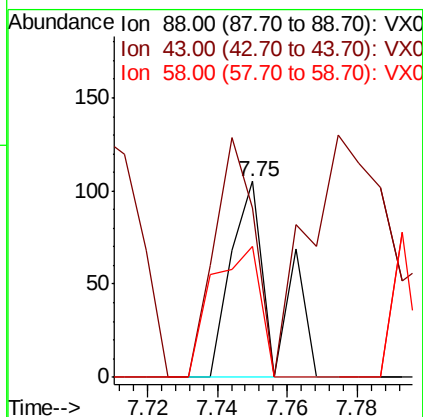
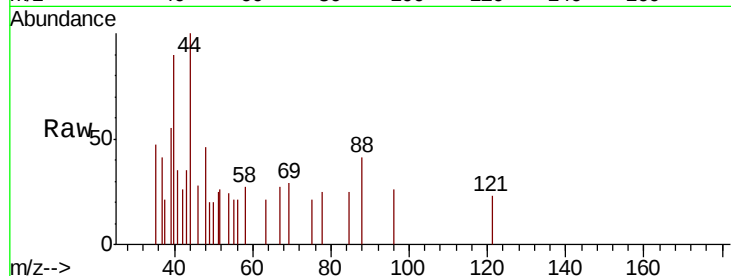




#49
1,4-Dioxane
Concen: 1.178 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VX010437.D
Acq: 25 Jun 2019 16:42

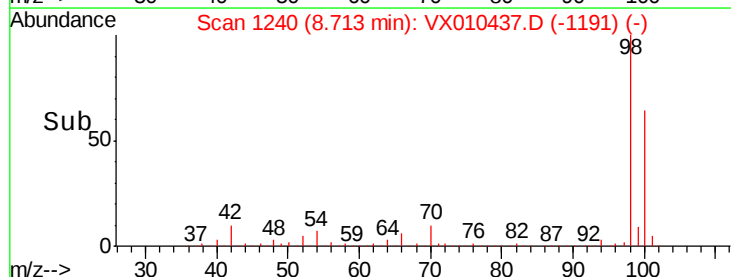
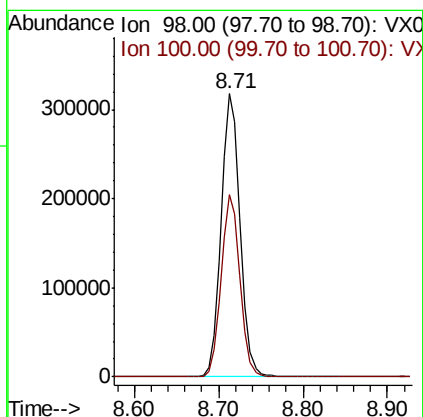
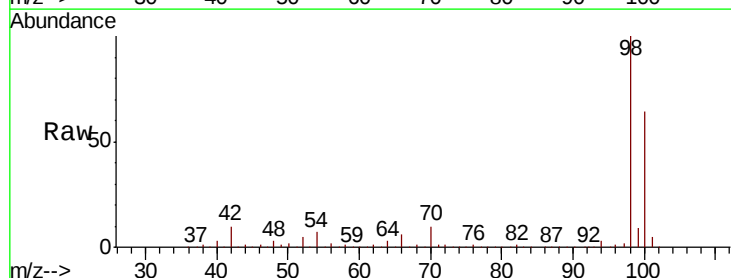
Instrument :
MSVOA_X
ClientSampled :
SY-3D

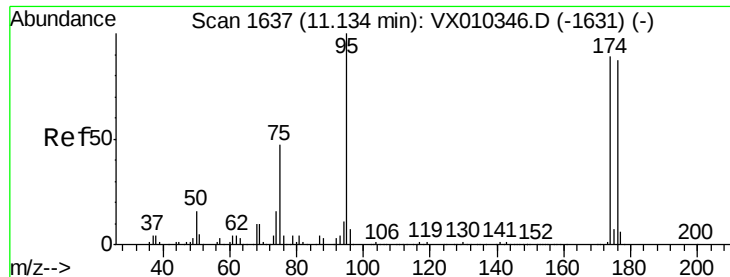
Tot Ion: 88 Resp: 89
Ion Ratio Lower Upper
88 100
43 114.6 20.2 30.2#
58 75.3 49.5 74.3#



#50
Toluene-d8
Concen: 50.536 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010437.D
Acq: 25 Jun 2019 16:42

Tgt Ion: 98 Resp: 493371
Ion Ratio Lower Upper
98 100
100 63.9 51.6 77.4





#62

4-Bromofluorobenzene

Concen: 46.479 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010437.D

Acq: 25 Jun 2019 16:42

Instrument :

MSVOA_X

ClientSampleId :

SY-3D

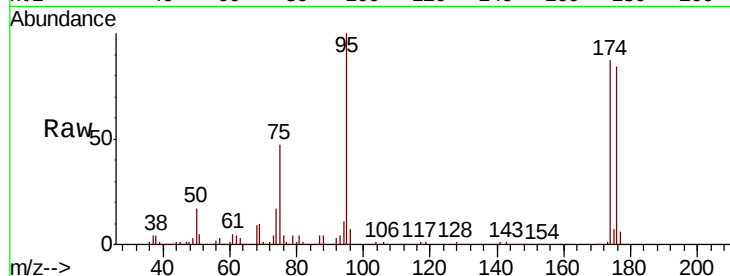
Tot Ion: 95 Resp: 163821

Ion Ratio Lower Upper

95 100

174 94.3 0.0 187.6

176 91.0 0.0 184.0

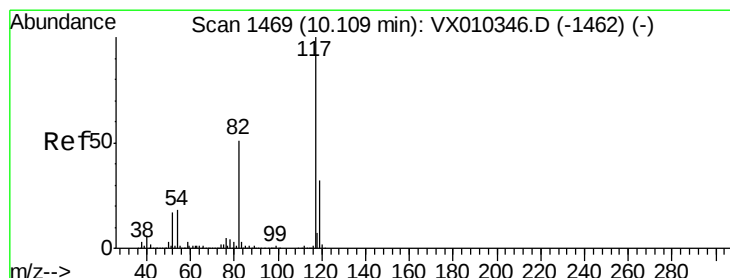
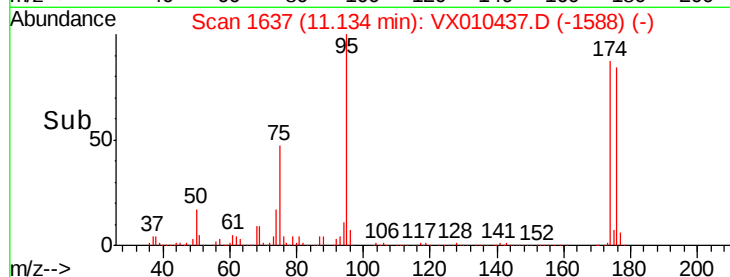


Abundance Ion 94.90 (94.60 to 95.60): VX010437.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX010437.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX010437.D (-1588) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010437.D

Acq: 25 Jun 2019 16:42

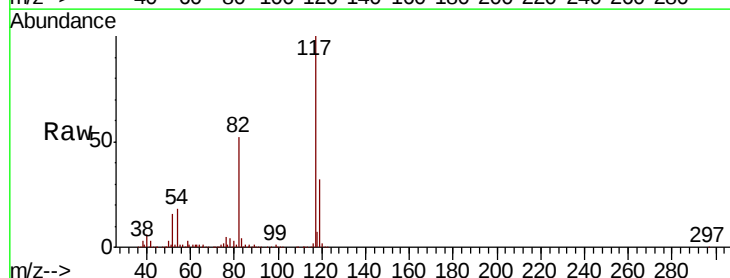
Tgt Ion: 117 Resp: 374421

Ion Ratio Lower Upper

117 100

82 51.5 41.2 61.8

119 32.1 25.5 38.3

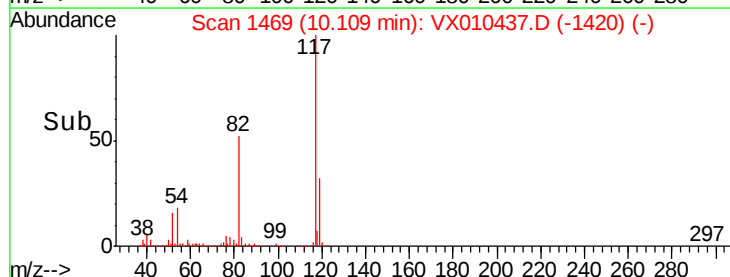


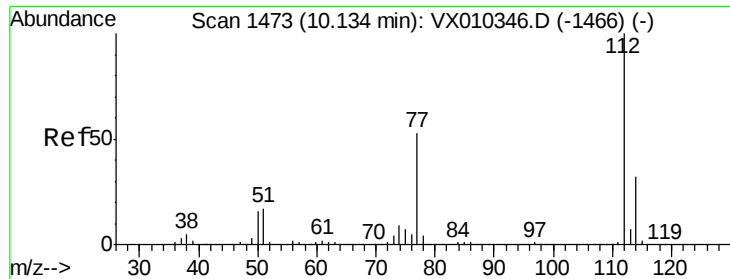
Abundance Ion 116.90 (116.60 to 117.60): VX010437.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX010437.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX010437.D (-1420) (-)

Time-->

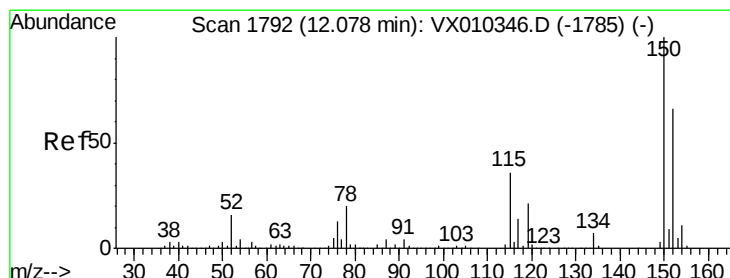
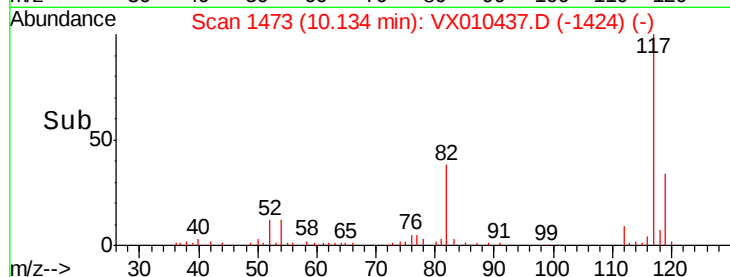
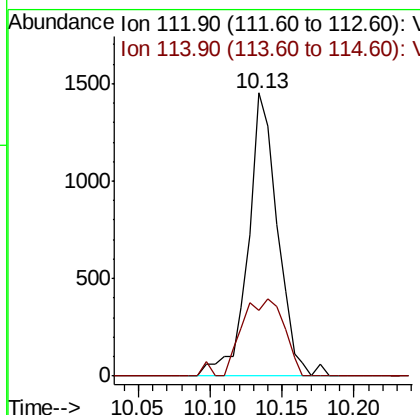
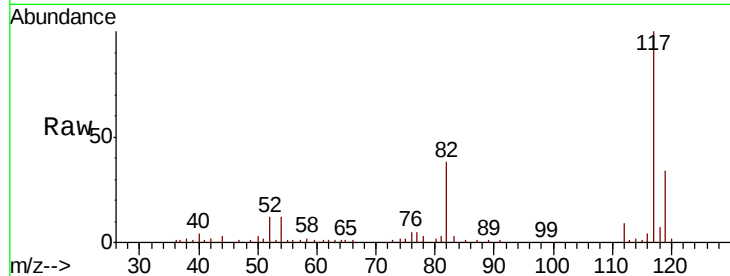




#65
Chlorobenzene
Concen: 0.269 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX010437.D
Acq: 25 Jun 2019 16:42

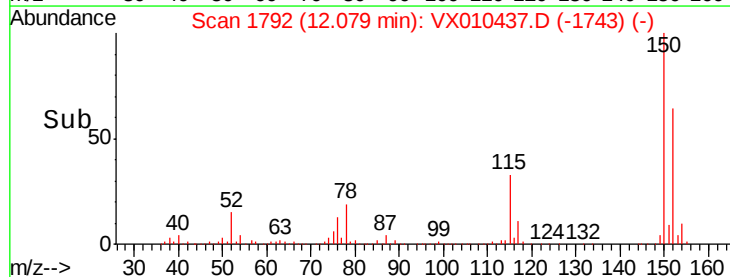
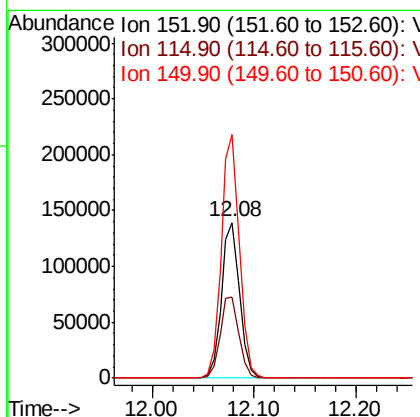
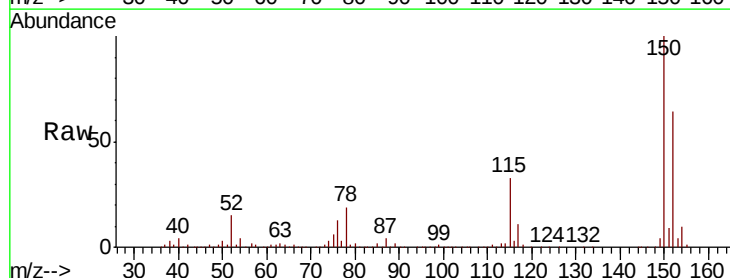
Instrument :
MSVOA_X
ClientSampleId :
SY-3D

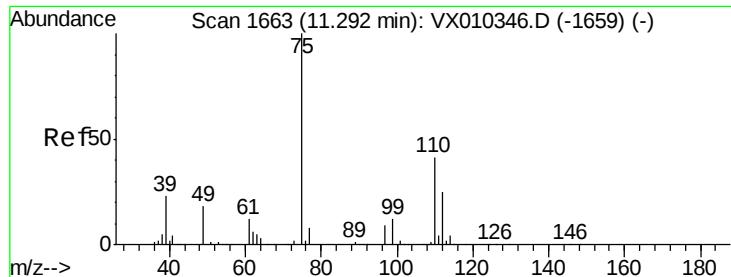
Tot Ion:112 Resp: 2046
Ion Ratio Lower Upper
112 100
114 23.2 25.4 38.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010437.D
Acq: 25 Jun 2019 16:42

Tgt Ion:152 Resp: 171362
Ion Ratio Lower Upper
152 100
115 54.8 38.6 115.7
150 156.8 0.0 347.4

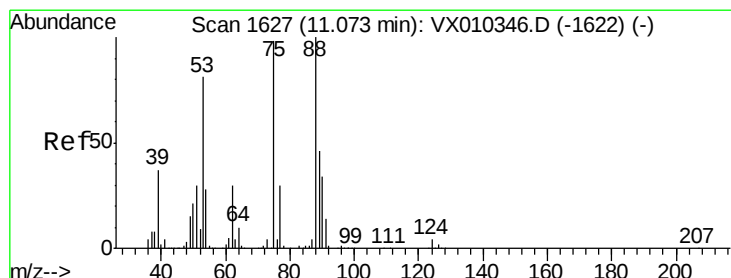
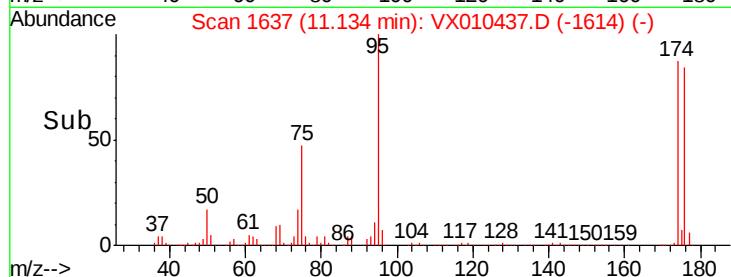
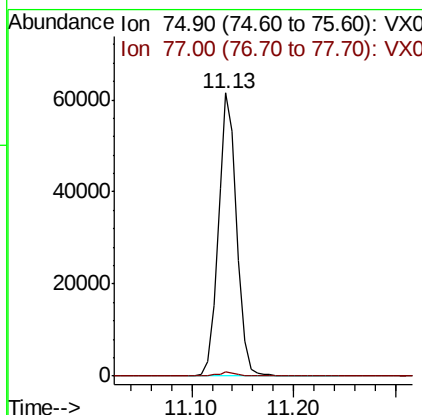
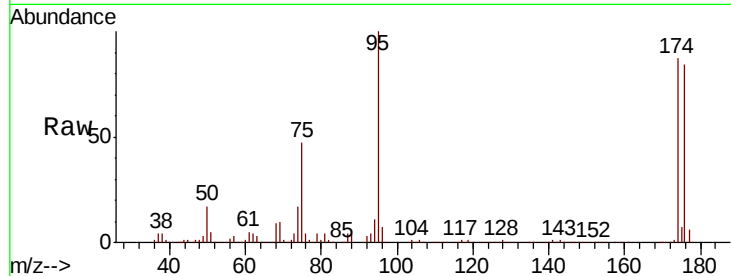




#76
 1,2,3-Trichloropropane
 Concen: 24.747 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010437.D
 Acq: 25 Jun 2019 16:42

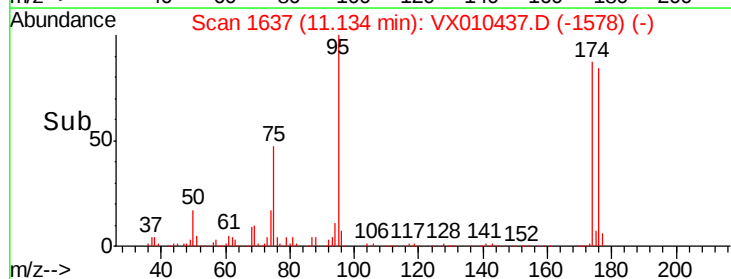
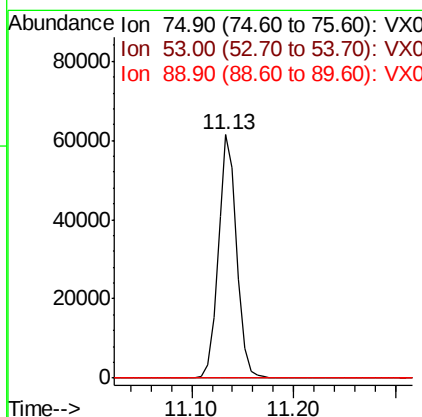
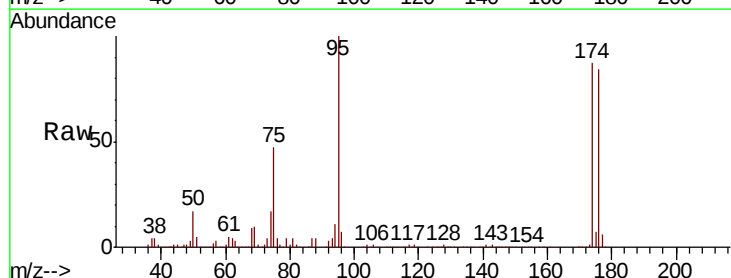
Instrument :
 MSVOA_X
 ClientSampleId :
 SY-3D

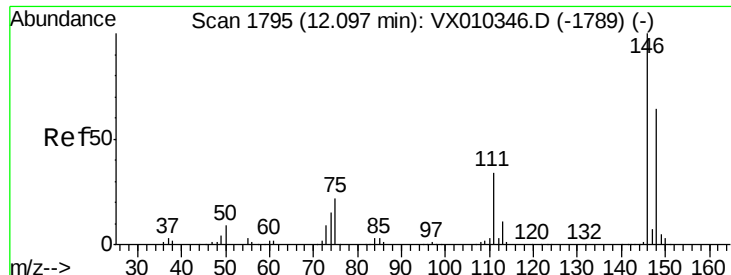
Tot Ion: 75 Resp: 77276
 Ion Ratio Lower Upper
 75 100
 77 1.6 22.6 67.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.732 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010437.D
 Acq: 25 Jun 2019 16:42

Tgt Ion: 75 Resp: 77276
 Ion Ratio Lower Upper
 75 100
 53 0.1 66.1 99.1#
 89 0.0 37.8 56.6#





#88

1,4-Dichlorobenzene

Concen: 0.223 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VX010437.D

Acq: 25 Jun 2019 16:42

Instrument :

MSVOA_X

ClientSampleId :

SY-3D

Tot Ion:146 Resp: 1287

Ion Ratio Lower Upper

146 100

111 209.2 18.1 54.3#

148 125.6 32.1 96.3#

