

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031519\
 Data File : VX008111.D
 Acq On : 15 Mar 2019 17:42
 Operator : JC/SP
 Sample : VX0315WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBL02

Quant Time: Mar 16 01:07:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	264595	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	398313	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	377360	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187342	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	130227	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
35) Dibromofluoromethane	5.51	113	128374	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
50) Toluene-d8	8.71	98	476211	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
62) 4-Bromofluorobenzene	11.13	95	172802	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	

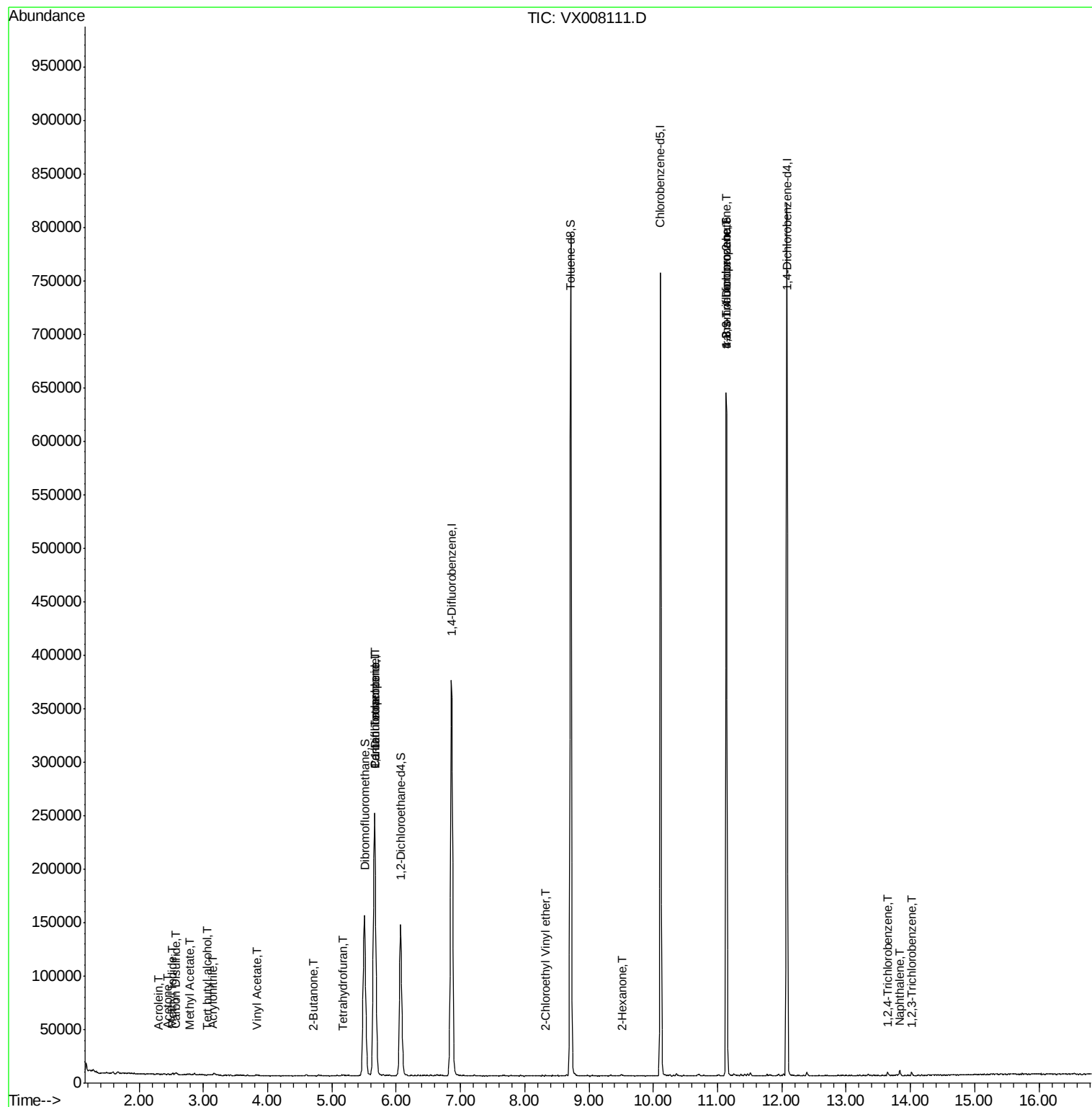
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	807	Below Cal	#	77
10) Methyl Iodide	2.52	142	1063	0.356	ug/l #	84
11) Tert butyl alcohol	3.06	59	240	0.465	ug/l	96
13) Acrolein	2.29	56	293	0.617	ug/l	97
15) Acrylonitrile	3.15	53	727	0.578	ug/l #	78
16) Acetone	2.44	43	802	0.636	ug/l	92
17) Carbon Disulfide	2.57	76	1930	0.333	ug/l #	77
18) Methyl Acetate	2.79	43	799	0.293	ug/l	95
23) Vinyl Acetate	3.83	43	1443	0.232	ug/l #	73
25) 2-Butanone	4.71	43	581	0.300	ug/l #	50
29) Tetrahydrofuran	5.17	42	517	0.428	ug/l #	53
36) 1,1-Dichloropropene	5.66	75	14944	4.561	ug/l #	49
38) Carbon Tetrachloride	5.67	117	21270	6.744	ug/l #	16
58) 2-Chloroethyl Vinyl ether	8.32	63	494	0.219	ug/l #	55
59) 2-Hexanone	9.51	43	597	0.204	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	77746	23.895	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	77746	67.998	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.65	180	1084	0.265	ug/l	96
95) Naphthalene	13.83	128	2979	0.259	ug/l	95
96) 1,2,3-Trichlorobenzene	14.02	180	995	0.247	ug/l	97

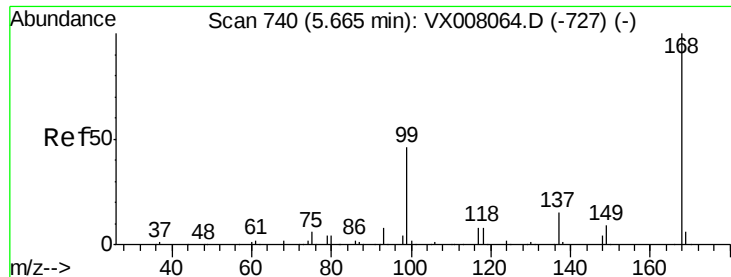
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 16 01:07:18 2019
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Quant Title : SW846 8260
QLast Update : Fri Mar 15 03:56:35 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: VX008111.D

Acq: 15 Mar 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

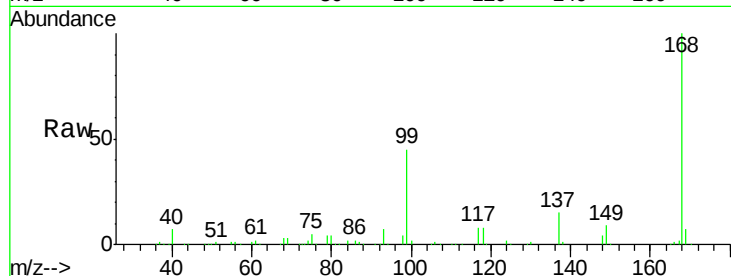
VX0315WBL02

Tot Ion:168 Resp: 264595

Ion Ratio Lower Upper

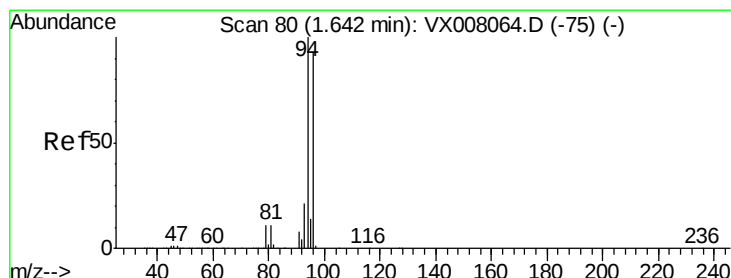
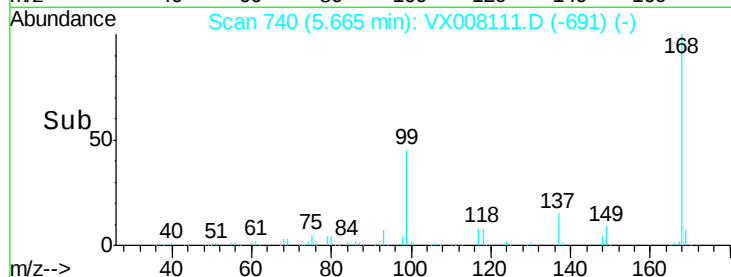
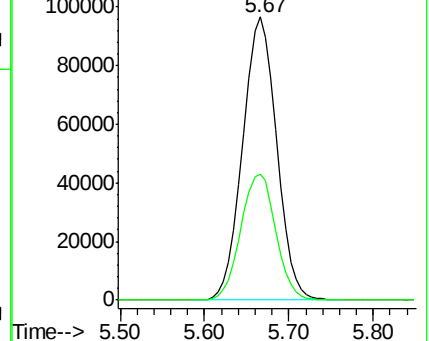
168 100

99 44.6 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX008111.D

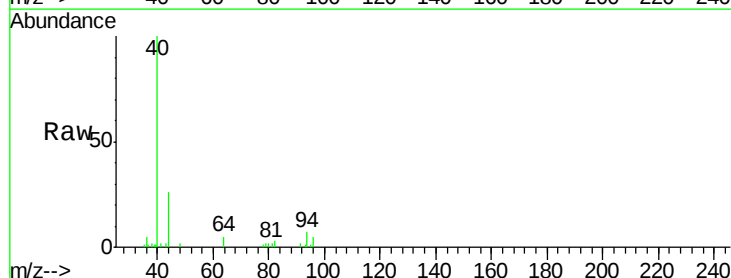
Acq: 15 Mar 2019 17:42

Tgt Ion: 94 Resp: 807

Ion Ratio Lower Upper

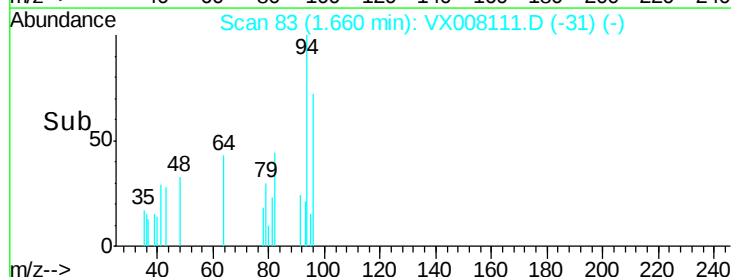
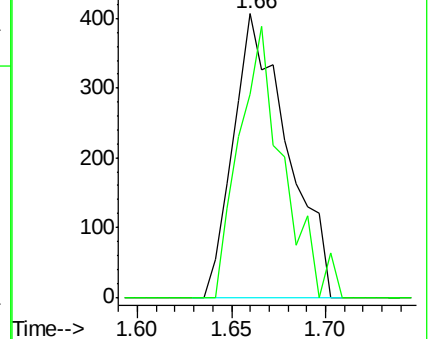
94 100

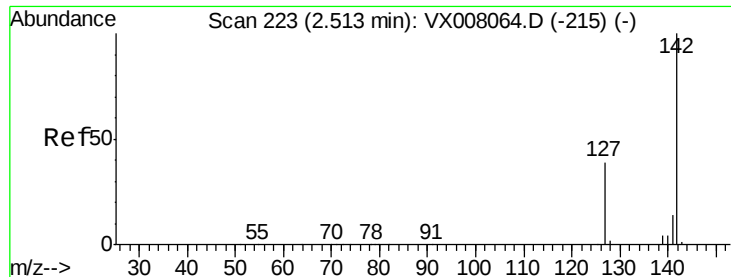
96 71.7 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

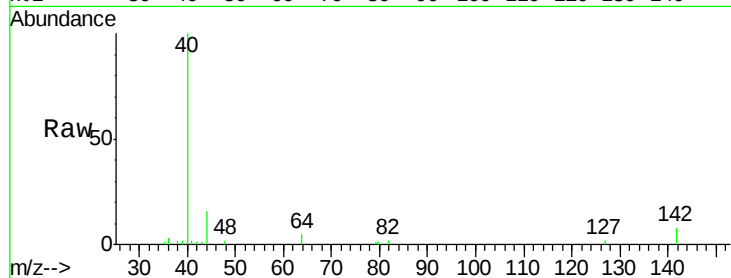




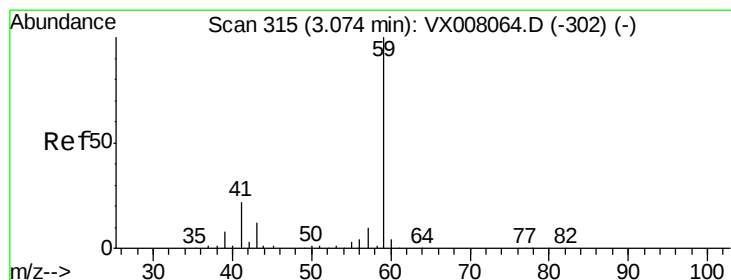
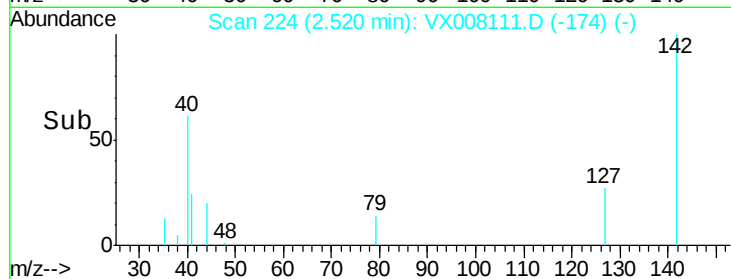
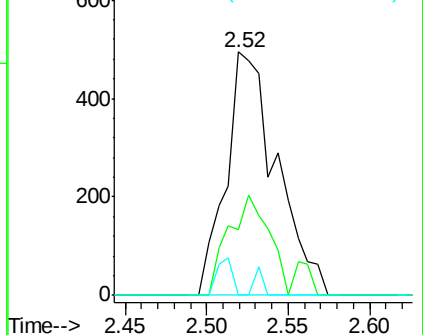
#10
Methvl Iodide
Concen: 0.356 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008111.D
Acq: 15 Mar 2019 17:42

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBL02

Tot Ion:142 Resp: 1063
Ion Ratio Lower Upper
142 100
127 33.3 32.1 48.1
141 2.0 11.4 17.2#

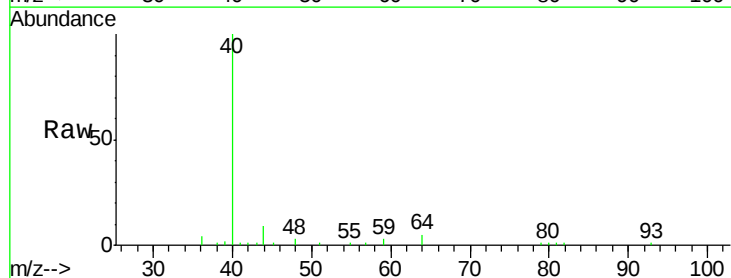


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

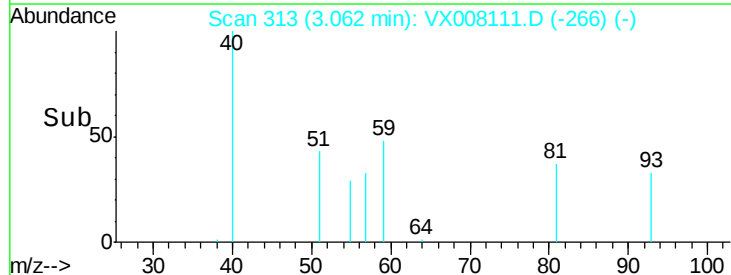
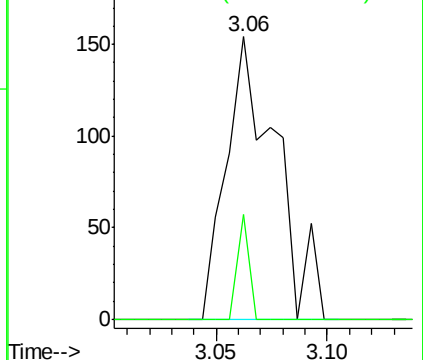


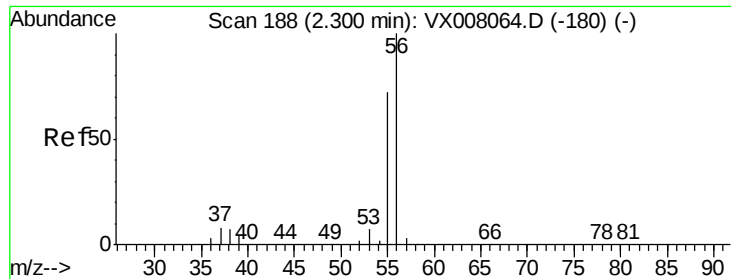
#11
Tert butyl alcohol
Concen: 0.465 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.01 min
Lab File: VX008111.D
Acq: 15 Mar 2019 17:42

Tgt Ion: 59 Resp: 240
Ion Ratio Lower Upper
59 100
57 8.8 8.2 12.2



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





#13

Acrolein

Concen: 0.617 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX008111.D

Acq: 15 Mar 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

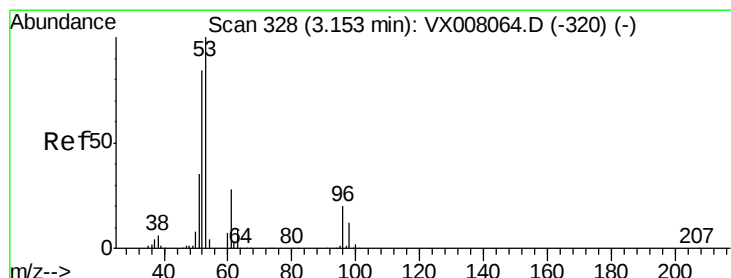
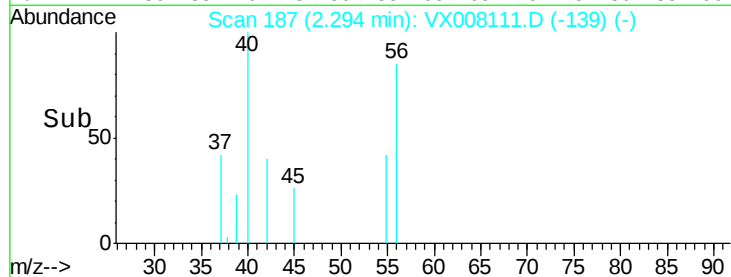
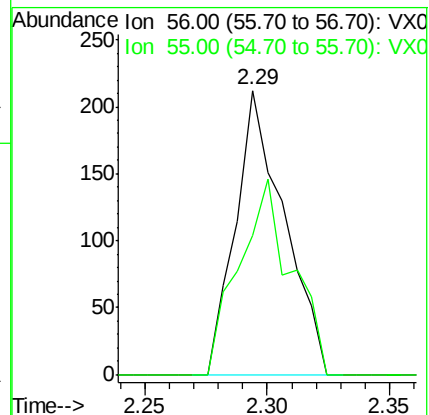
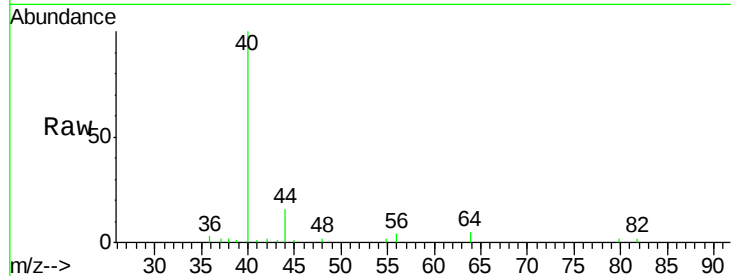
VX0315WBL02

Tot Ion: 56 Resp: 293

Ion Ratio Lower Upper

56 100

55 74.7 57.8 86.6



#15

Acrylonitrile

Concen: 0.578 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX008111.D

Acq: 15 Mar 2019 17:42

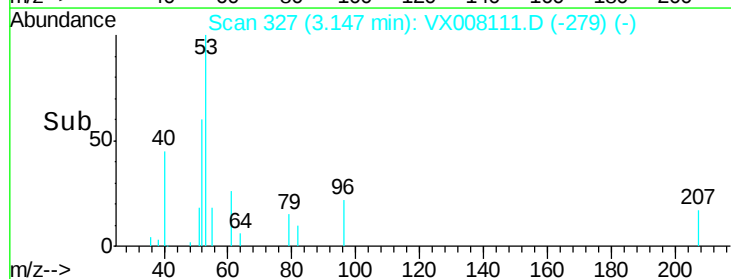
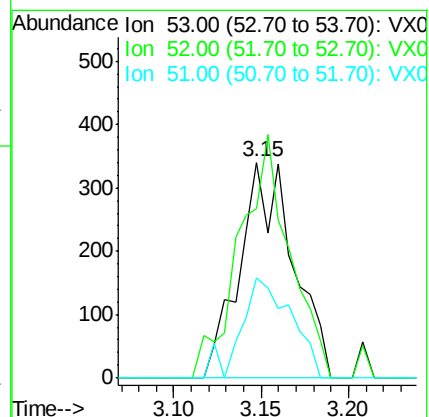
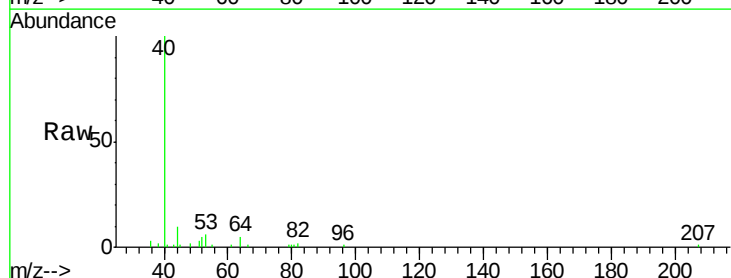
Tgt Ion: 53 Resp: 727

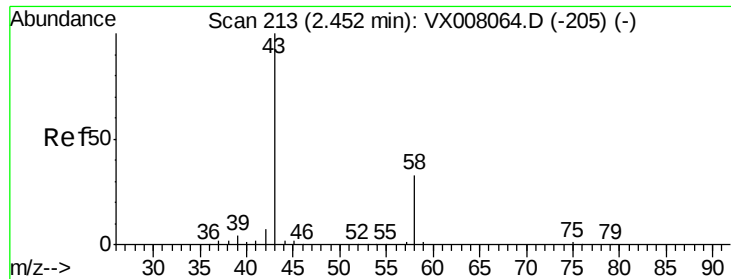
Ion Ratio Lower Upper

53 100

52 104.8 66.0 99.0#

51 43.3 28.0 42.0#





#16

Acetone

Concen: 0.636 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008111.D

Acq: 15 Mar 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

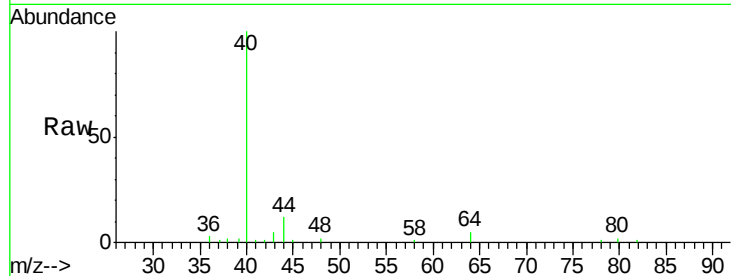
VX0315WBL02

Tot Ion: 43 Resp: 802

Ion Ratio Lower Upper

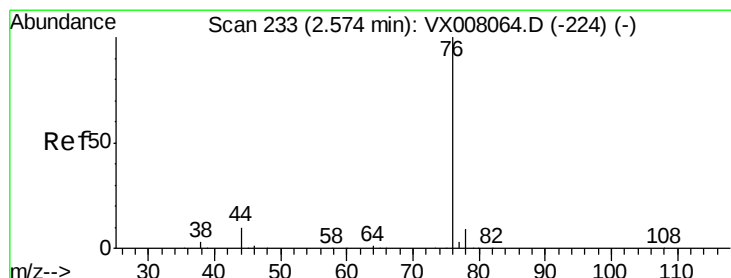
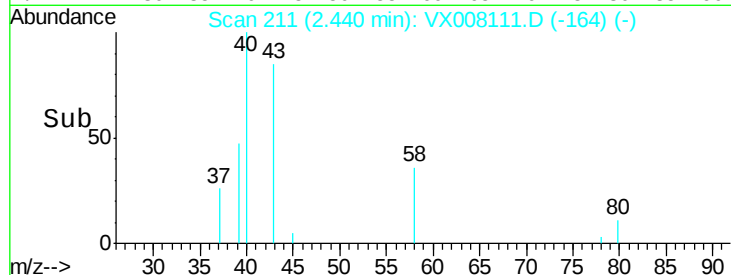
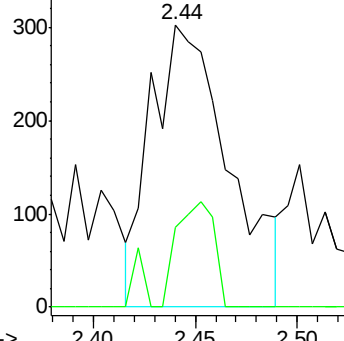
43 100

58 36.3 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.333 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX008111.D

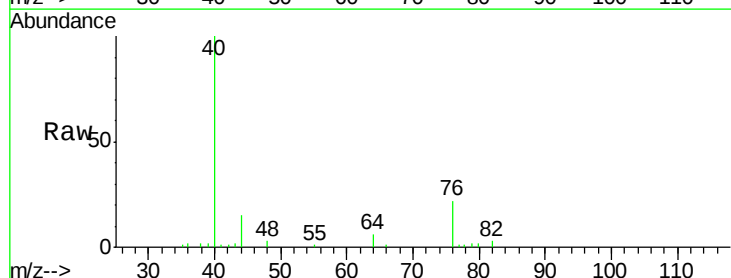
Acq: 15 Mar 2019 17:42

Tgt Ion: 76 Resp: 1930

Ion Ratio Lower Upper

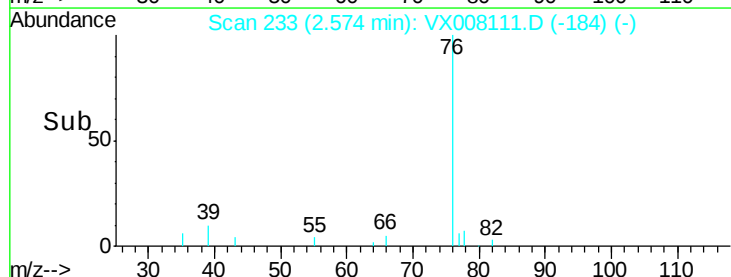
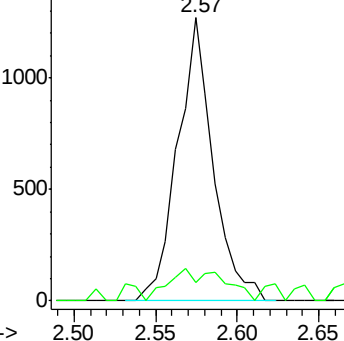
76 100

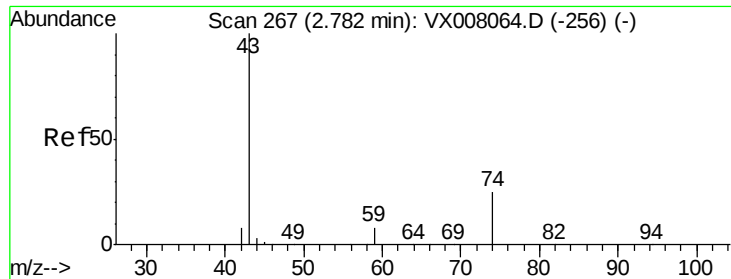
78 0.7 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

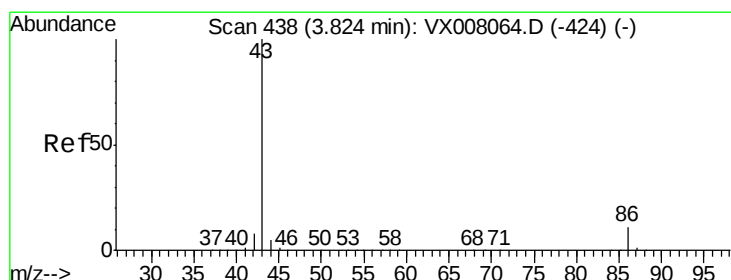
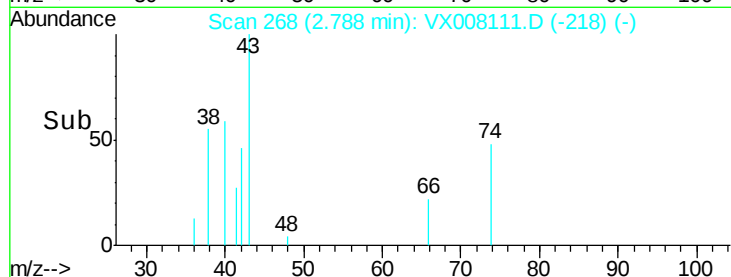
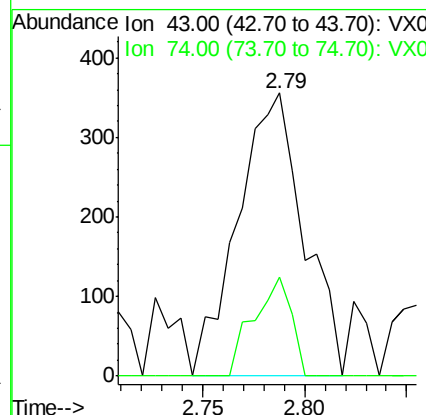
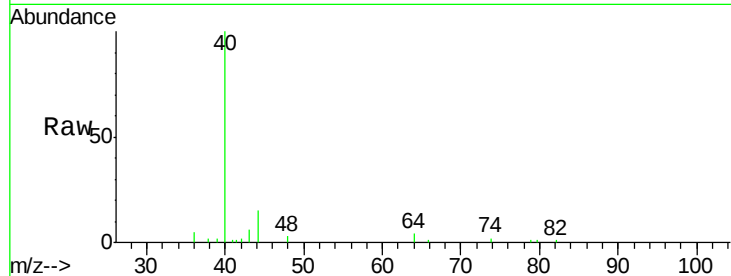




#18
Methyl Acetate
Concen: 0.293 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX008111.D
Acq: 15 Mar 2019 17:42

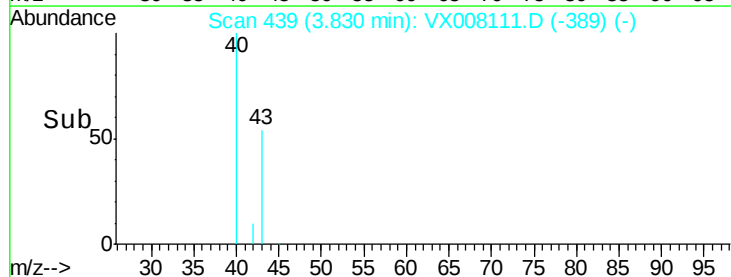
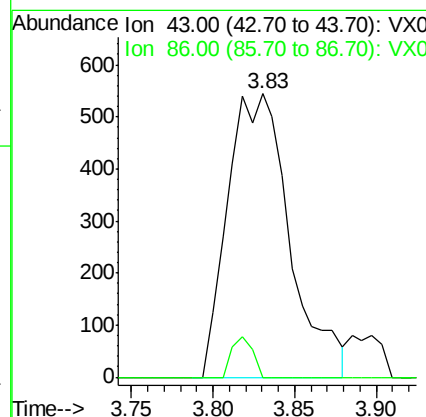
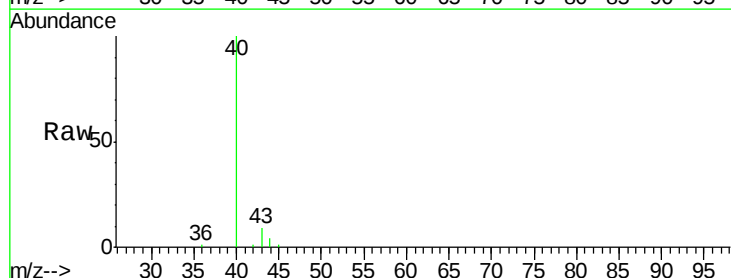
Instrument :
MSVOA_X
ClientSampleId :
VX0315WBL02

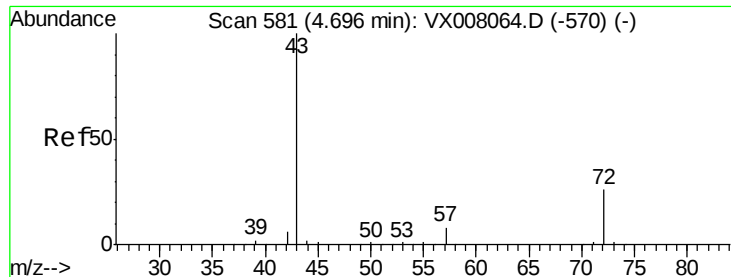
Tot Ion: 43 Resp: 799
Ion Ratio Lower Upper
43 100
74 19.9 17.8 26.6



#23
Vinyl Acetate
Concen: 0.232 ug/l
RT: 3.83 min Scan# 439
Delta R.T. 0.01 min
Lab File: VX008111.D
Acq: 15 Mar 2019 17:42

Tgt Ion: 43 Resp: 1443
Ion Ratio Lower Upper
43 100
86 0.0 7.9 11.9#





#25

2-Butanone

Concen: 0.300 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.02 min

Lab File: VX008111.D

Acq: 15 Mar 2019 17:42

Instrument :

MSVOA_X

ClientSampled :

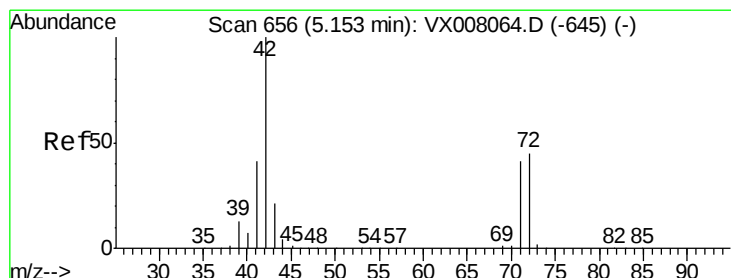
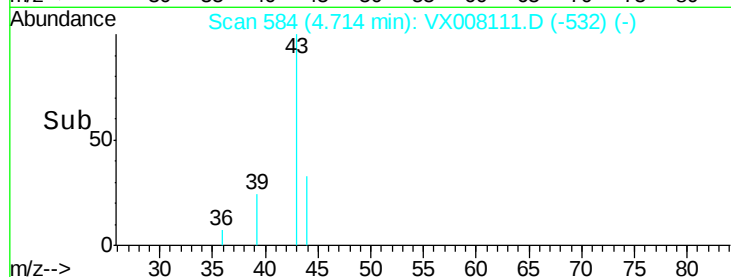
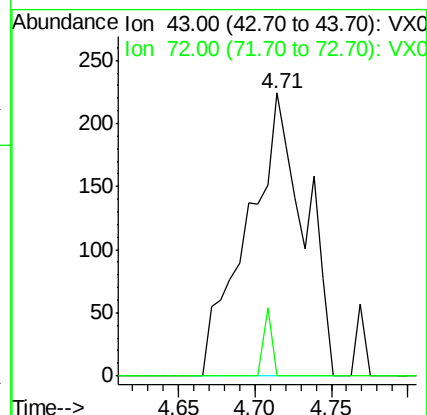
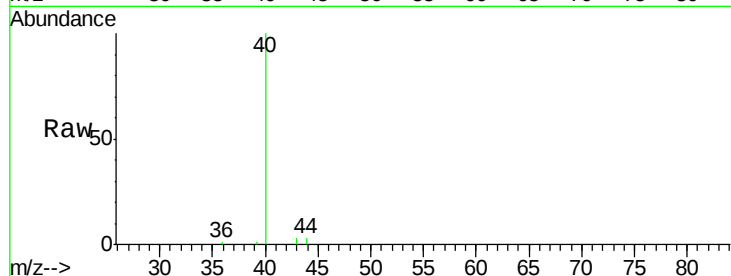
VX0315WBL02

Tot Ion: 43 Resp: 581

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#



#29

Tetrahydrofuran

Concen: 0.428 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX008111.D

Acq: 15 Mar 2019 17:42

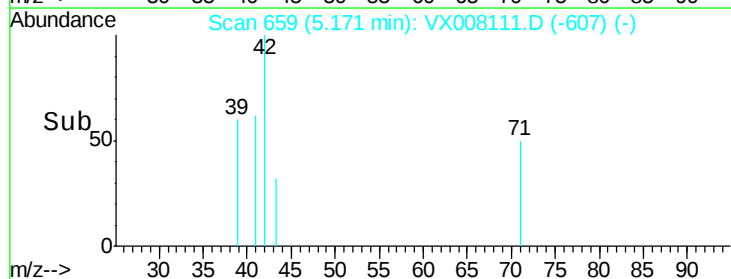
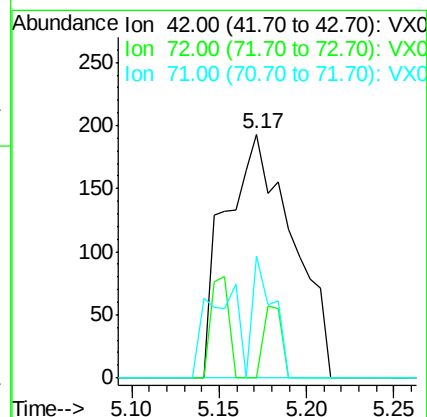
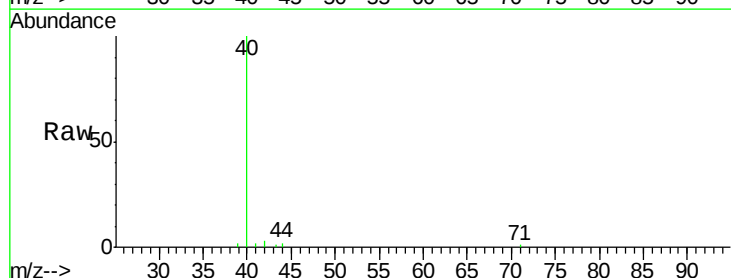
Tgt Ion: 42 Resp: 517

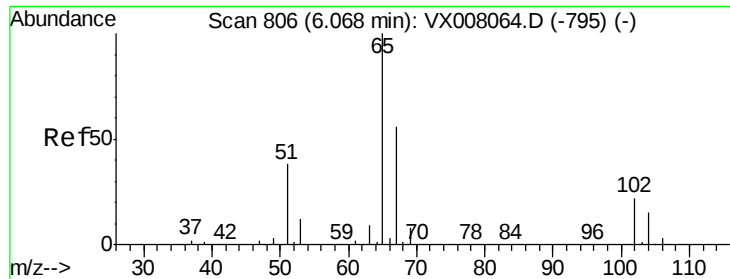
Ion Ratio Lower Upper

42 100

72 7.9 33.8 50.6#

71 15.3 31.5 47.3#

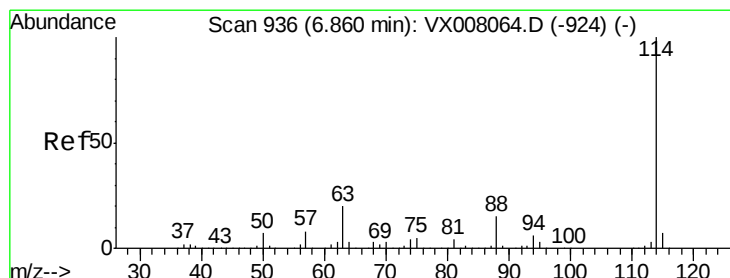
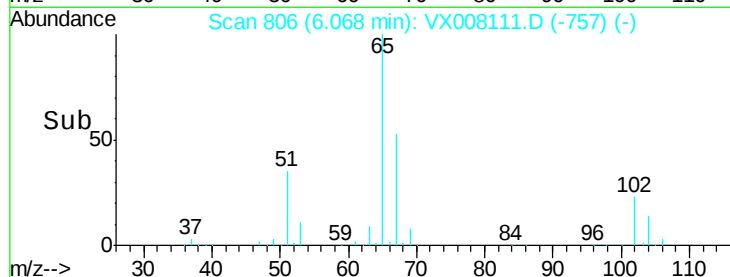
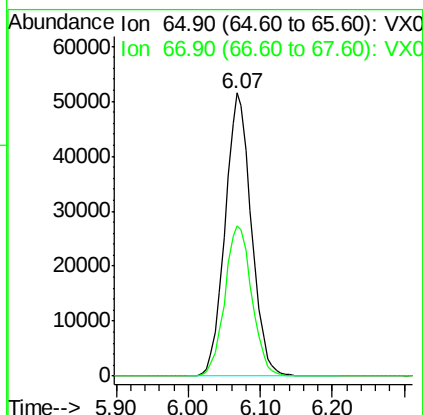
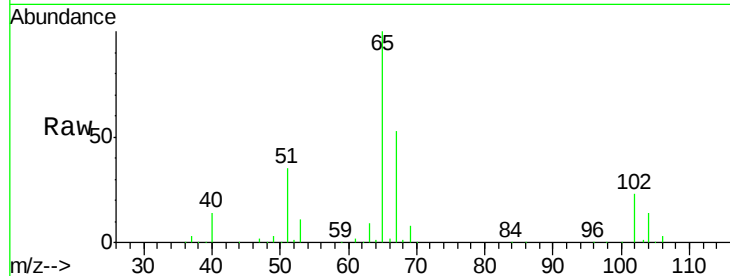




#33
 1,2-Dichloroethane-d4
 Concen: 48.791 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX008111.D
 Acq: 15 Mar 2019 17:42

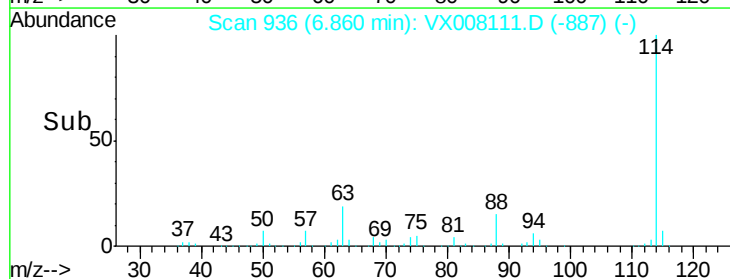
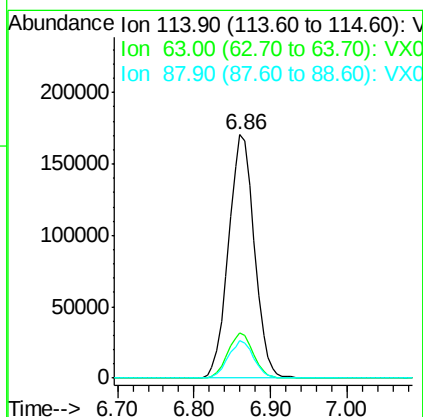
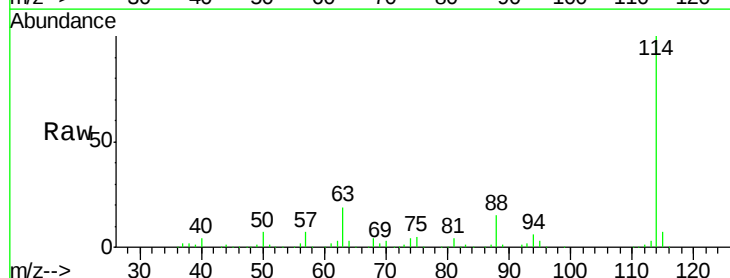
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0315WBL02

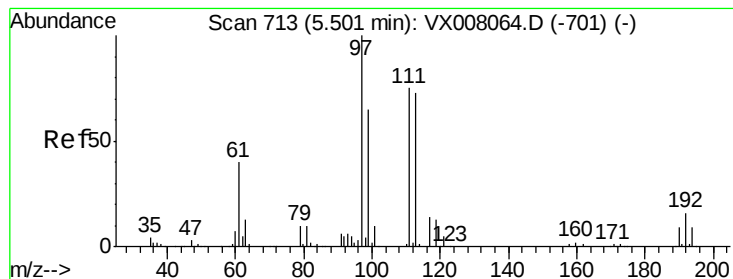
Tot Ion: 65 Resp: 130227
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008111.D
 Acq: 15 Mar 2019 17:42

Tgt Ion: 114 Resp: 398313
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 39.8
 88 15.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.823 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX008111.D

Acq: 15 Mar 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBL02

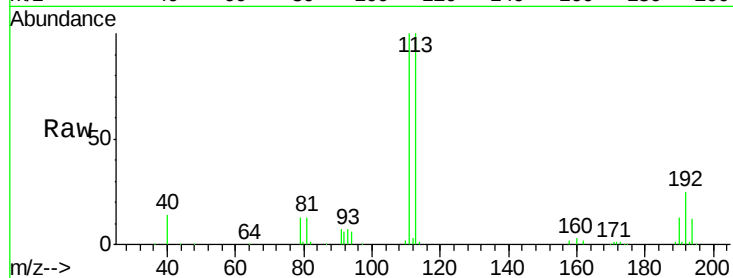
Tot Ion:113 Resp: 128374

Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.0

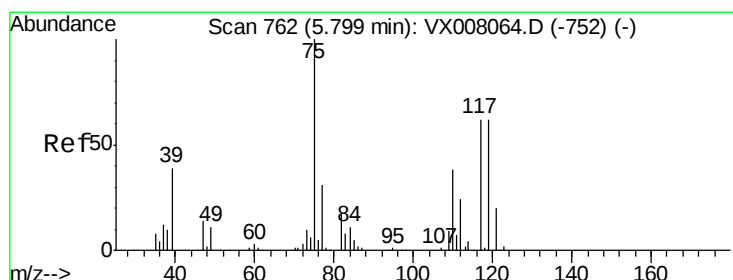
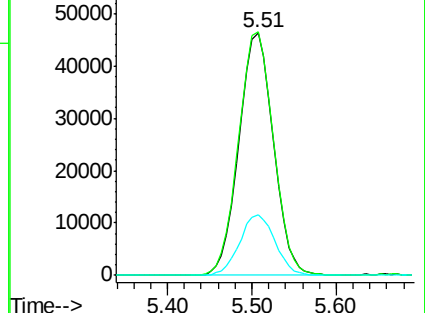
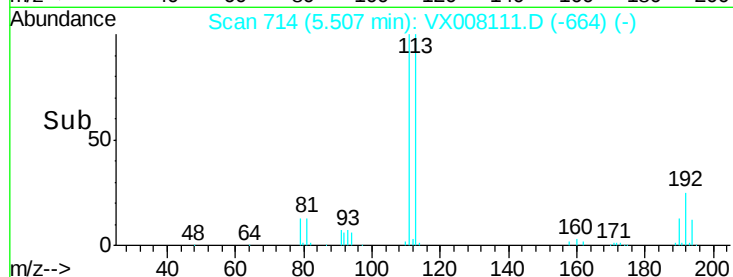
192 25.6 19.4 29.0



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: 4.561 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008111.D

Acq: 15 Mar 2019 17:42

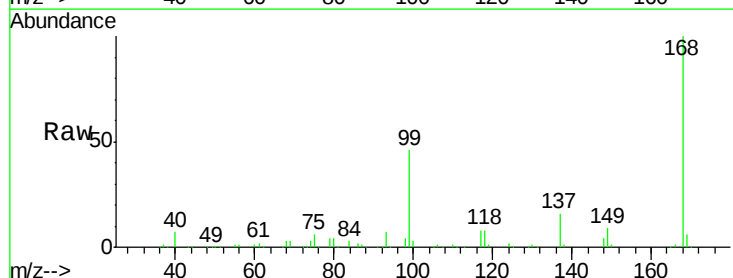
Tgt Ion: 75 Resp: 14944

Ion Ratio Lower Upper

75 100

110 9.1 18.4 55.0#

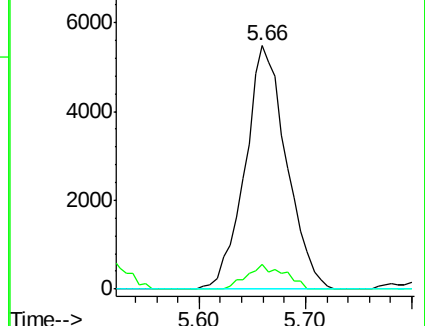
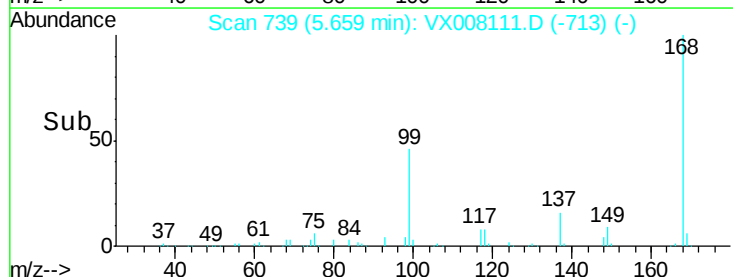
77 0.0 25.0 37.4#

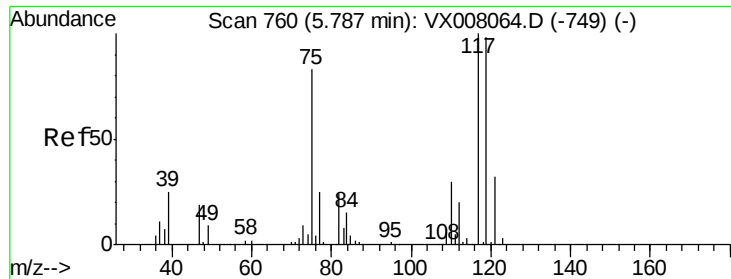


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

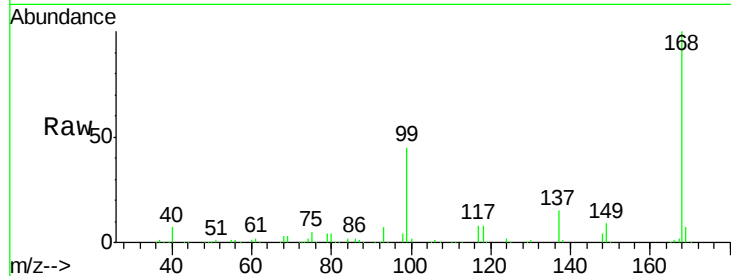




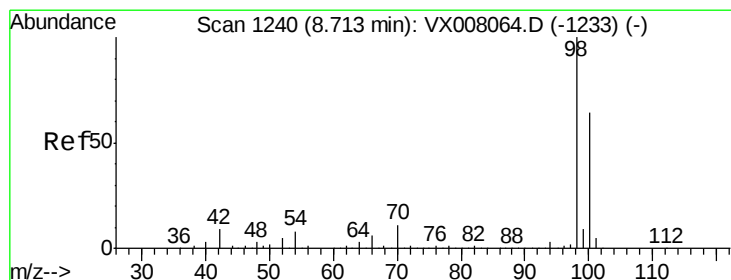
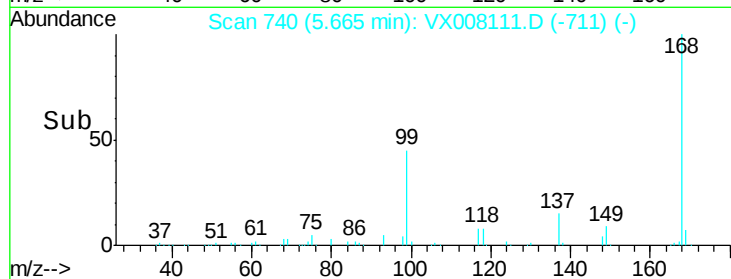
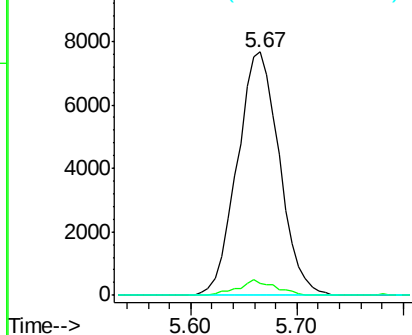
#38
Carbon Tetrachloride
Concen: 6.744 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX008111.D
Acq: 15 Mar 2019 17:42

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBL02

Tot Ion:117 Resp: 21270
Ion Ratio Lower Upper
117 100
119 5.1 76.2 114.2#
121 0.0 24.6 36.8#

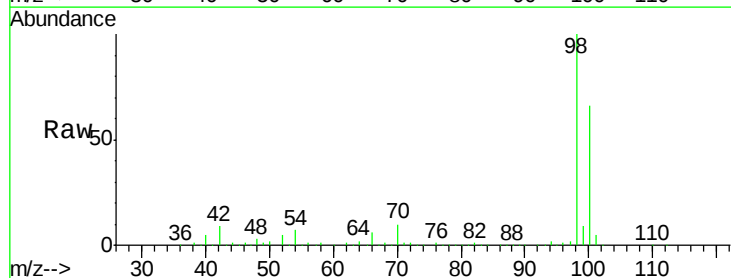


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

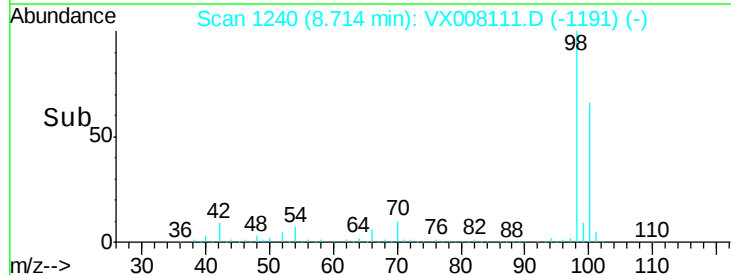
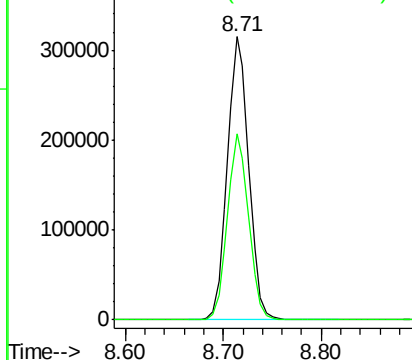


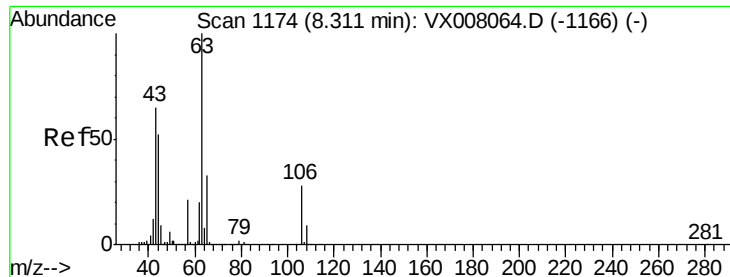
#50
Toluene-d8
Concen: 49.571 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008111.D
Acq: 15 Mar 2019 17:42

Tgt Ion: 98 Resp: 476211
Ion Ratio Lower Upper
98 100
100 65.2 51.7 77.5



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





#58

2-Chloroethyl Vinyl ether

Concen: 0.219 ug/l

RT: 8.32 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VX008111.D

Acq: 15 Mar 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

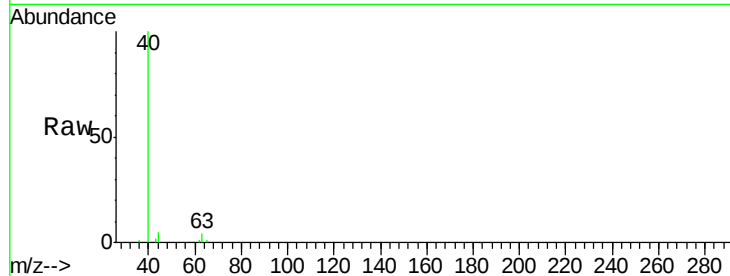
VX0315WBL02

Tot Ion: 63 Resp: 494

Ion Ratio Lower Upper

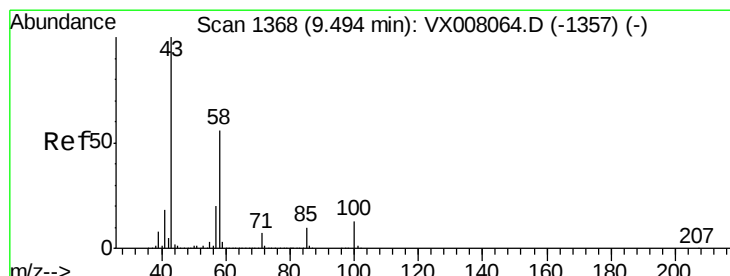
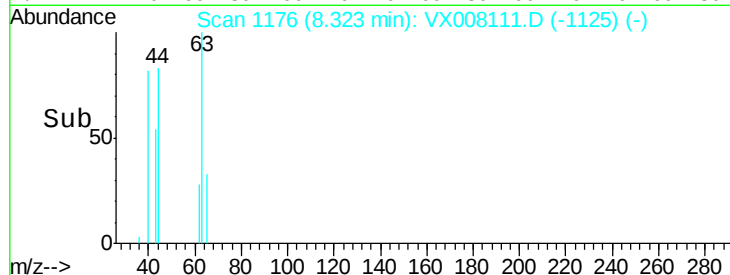
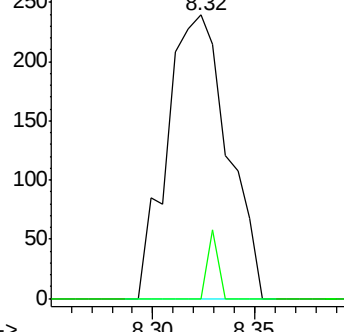
63 100

106 4.3 22.2 33.2#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V



#59

2-Hexanone

Concen: 0.204 ug/l

RT: 9.51 min Scan# 1370

Delta R.T. 0.01 min

Lab File: VX008111.D

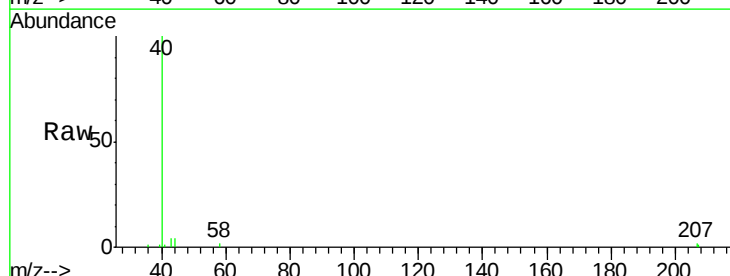
Acq: 15 Mar 2019 17:42

Tgt Ion: 43 Resp: 597

Ion Ratio Lower Upper

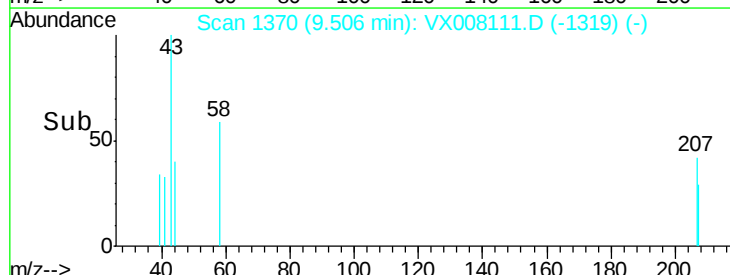
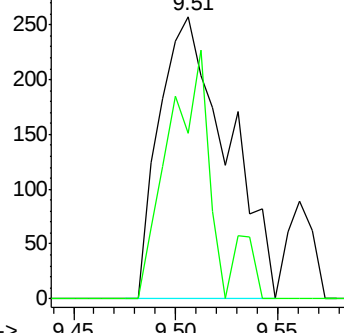
43 100

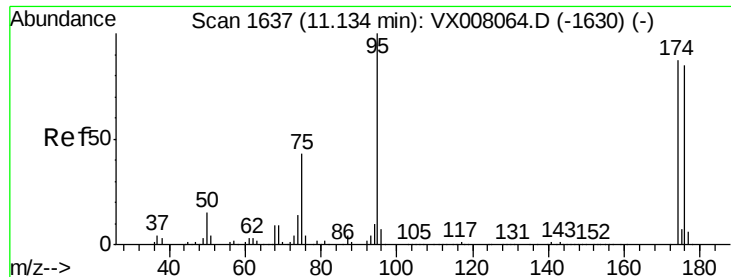
58 50.8 27.6 82.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 50.212 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008111.D

Acq: 15 Mar 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBL02

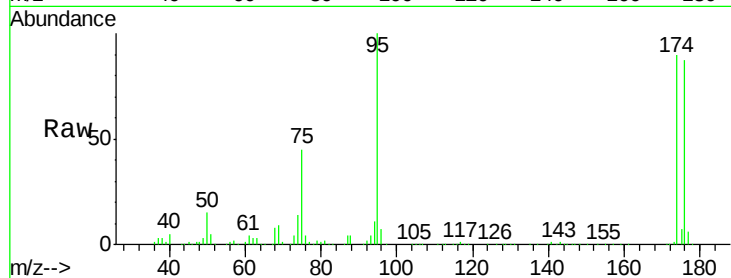
Tot Ion: 95 Resp: 172802

Ion Ratio Lower Upper

95 100

174 97.7 0.0 182.8

176 94.9 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX008064.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008064.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008064.D (-1630) (-)

11.13

150000

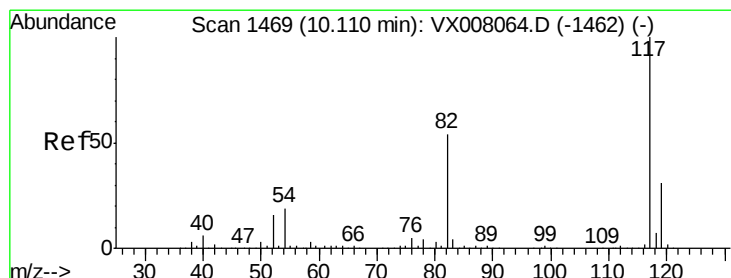
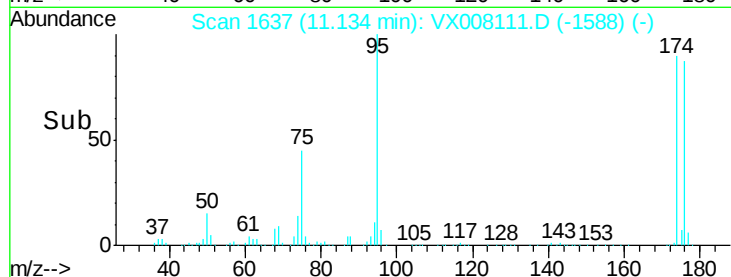
100000

50000

0

Time-->

11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008111.D

Acq: 15 Mar 2019 17:42

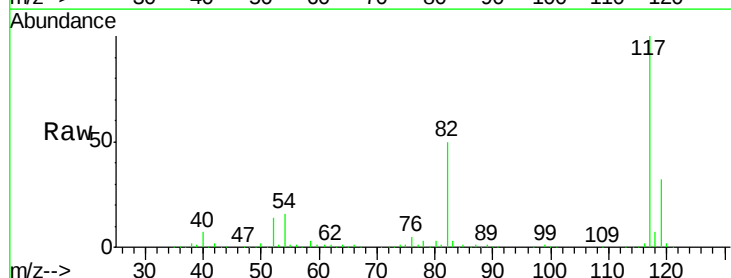
Tgt Ion: 117 Resp: 377360

Ion Ratio Lower Upper

117 100

82 49.5 44.3 66.5

119 32.1 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VX008064.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008064.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008064.D (-1462) (-)

10.12

300000

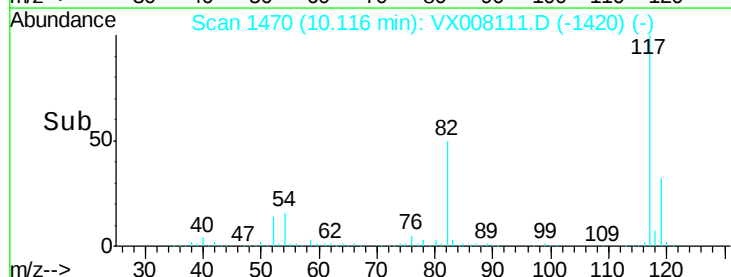
200000

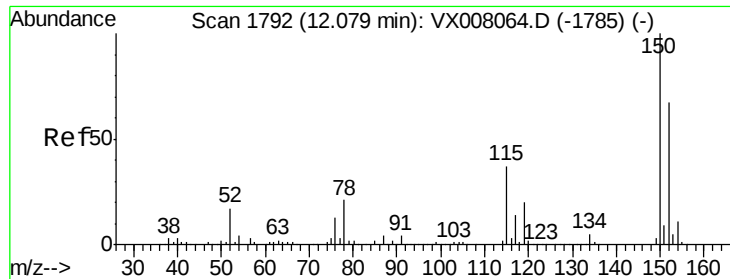
100000

0

Time-->

10.00 10.10 10.20





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008111.D

Acq: 15 Mar 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBL02

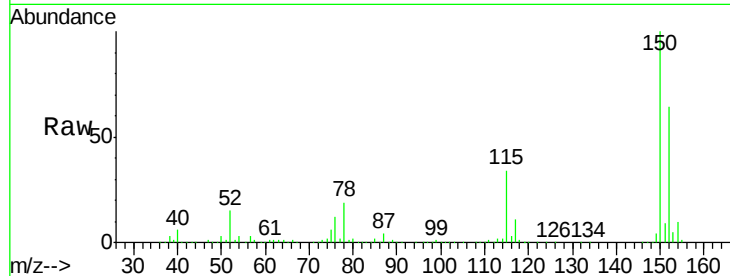
Tot Ion:152 Resp: 187342

Ion Ratio Lower Upper

152 100

115 54.0 38.6 115.7

150 156.0 0.0 348.4



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

300000

250000

200000

150000

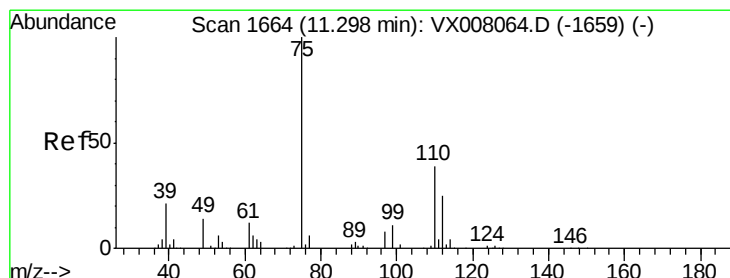
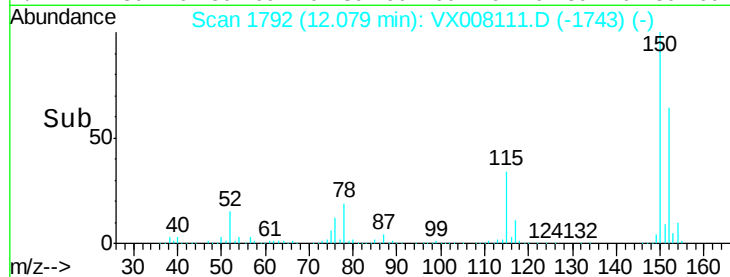
100000

50000

0

12.00 12.05 12.10 12.15

Time-->



#76

1,2,3-Trichloropropane

Concen: 23.895 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008111.D

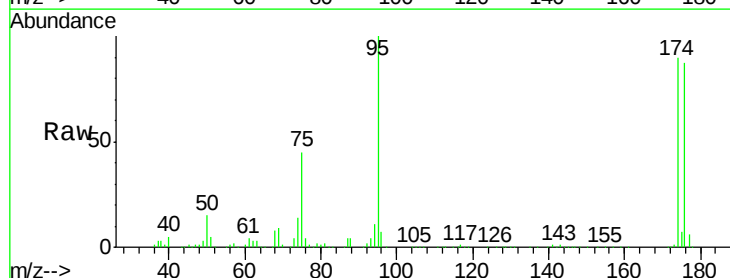
Acq: 15 Mar 2019 17:42

Tgt Ion: 75 Resp: 77746

Ion Ratio Lower Upper

75 100

77 1.3 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

60000

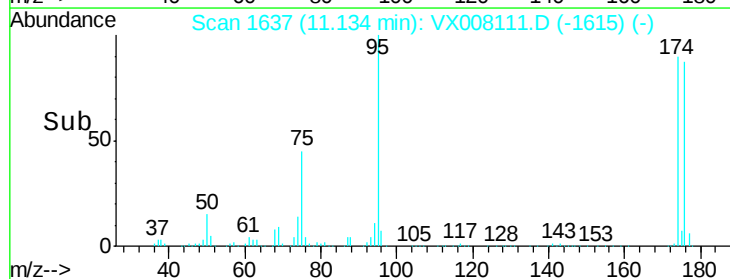
40000

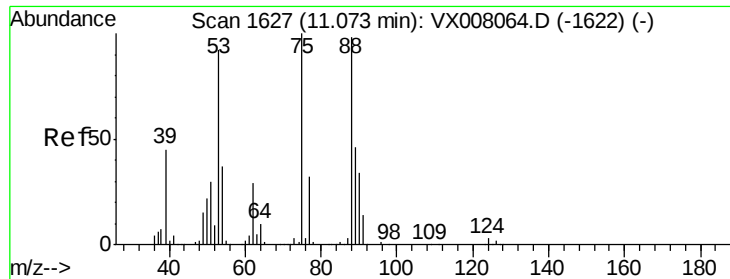
20000

0

11.10 11.20

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 67.998 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008111.D

Acq: 15 Mar 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

VX0315WBL02

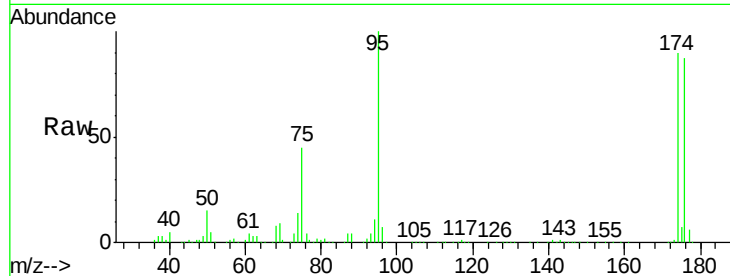
Tot Ion: 75 Resp: 77746

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

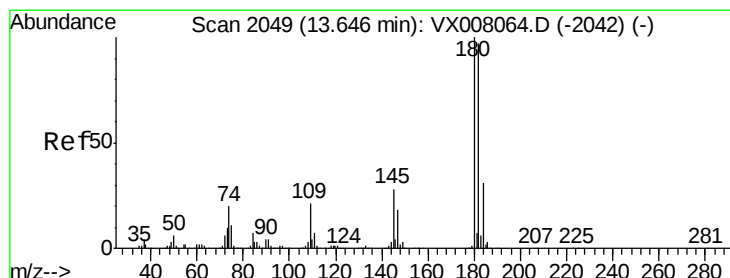
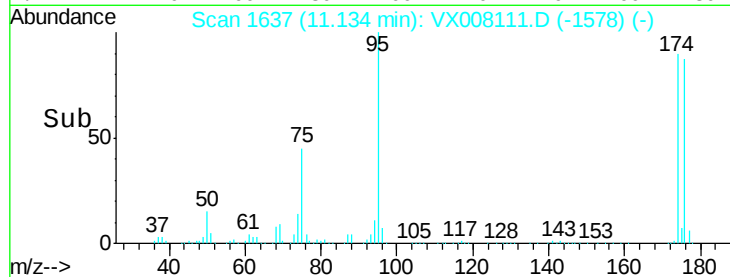
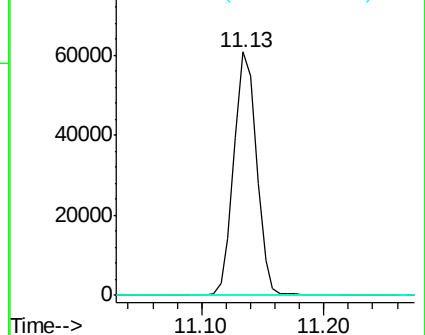
89 0.0 36.3 54.5#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.265 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX008111.D

Acq: 15 Mar 2019 17:42

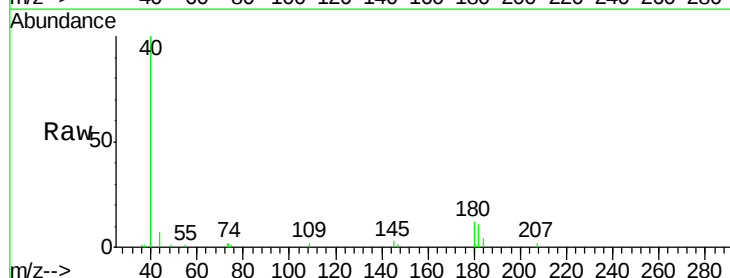
Tgt Ion:180 Resp: 1084

Ion Ratio Lower Upper

180 100

182 91.8 47.9 143.7

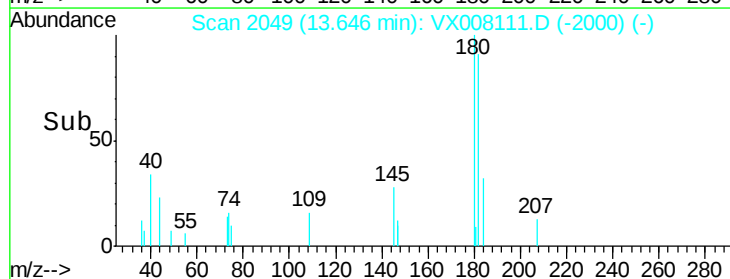
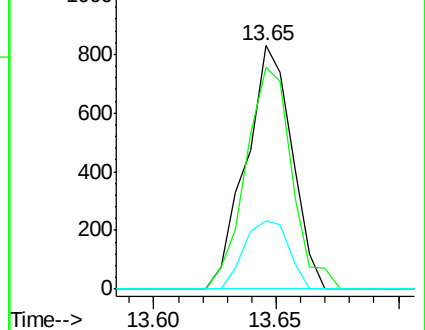
145 27.0 14.1 42.4

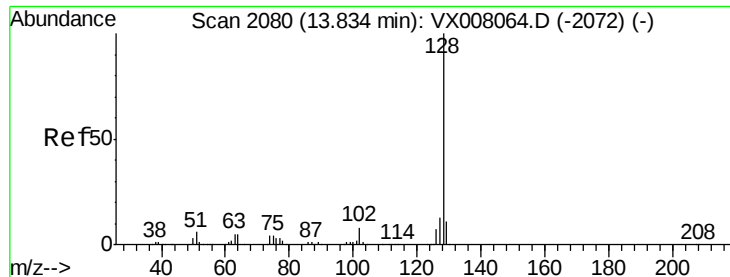


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

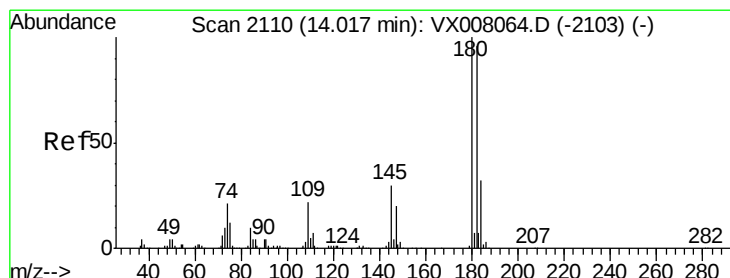
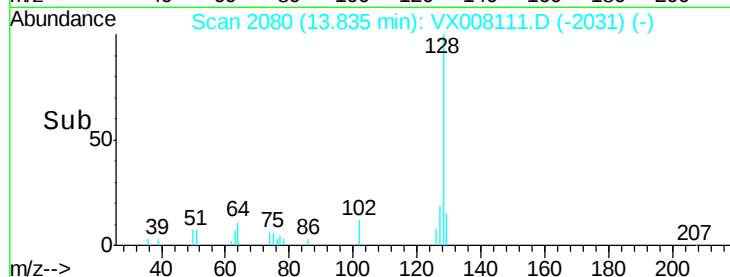
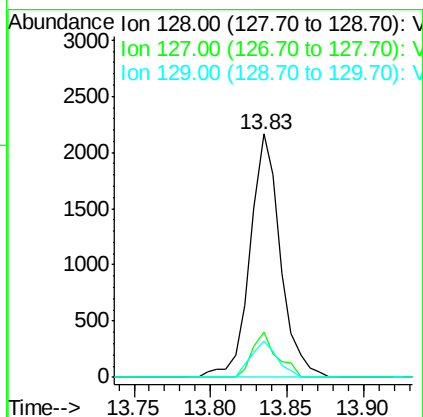
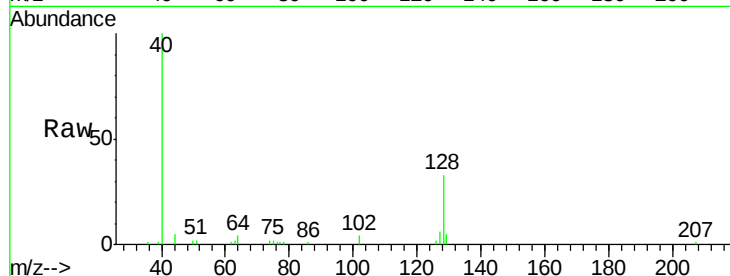




#95
Naphthalene
Concen: 0.259 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX008111.D
Acq: 15 Mar 2019 17:42

Instrument :
MSVOA_X
ClientSampleId :
VX0315WBL02

Tot Ion:128 Resp: 2979
Ion Ratio Lower Upper
128 100
127 15.1 10.3 15.5
129 13.0 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.247 ug/l
RT: 14.02 min Scan# 2110
Delta R.T. 0.00 min
Lab File: VX008111.D
Acq: 15 Mar 2019 17:42

Tgt Ion:180 Resp: 995
Ion Ratio Lower Upper
180 100
182 92.0 47.5 142.5
145 30.6 14.8 44.3

