

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061318\
 Data File : VX002516.D
 Acq On : 13 Jun 2018 18:41
 Operator : JC/MD
 Sample : J3406-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 14 01:48:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	197127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	291880	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	263982	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	135656	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	152605	54.44	ug/l	0.00
Spiked Amount			Recovery	=	108.88%	
35) Dibromofluoromethane	5.51	113	113409	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
50) Toluene-d8	8.72	98	448099	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
62) 4-Bromofluorobenzene	11.14	95	147361	43.44	ug/l	0.00
Spiked Amount			Recovery	=	86.88%	

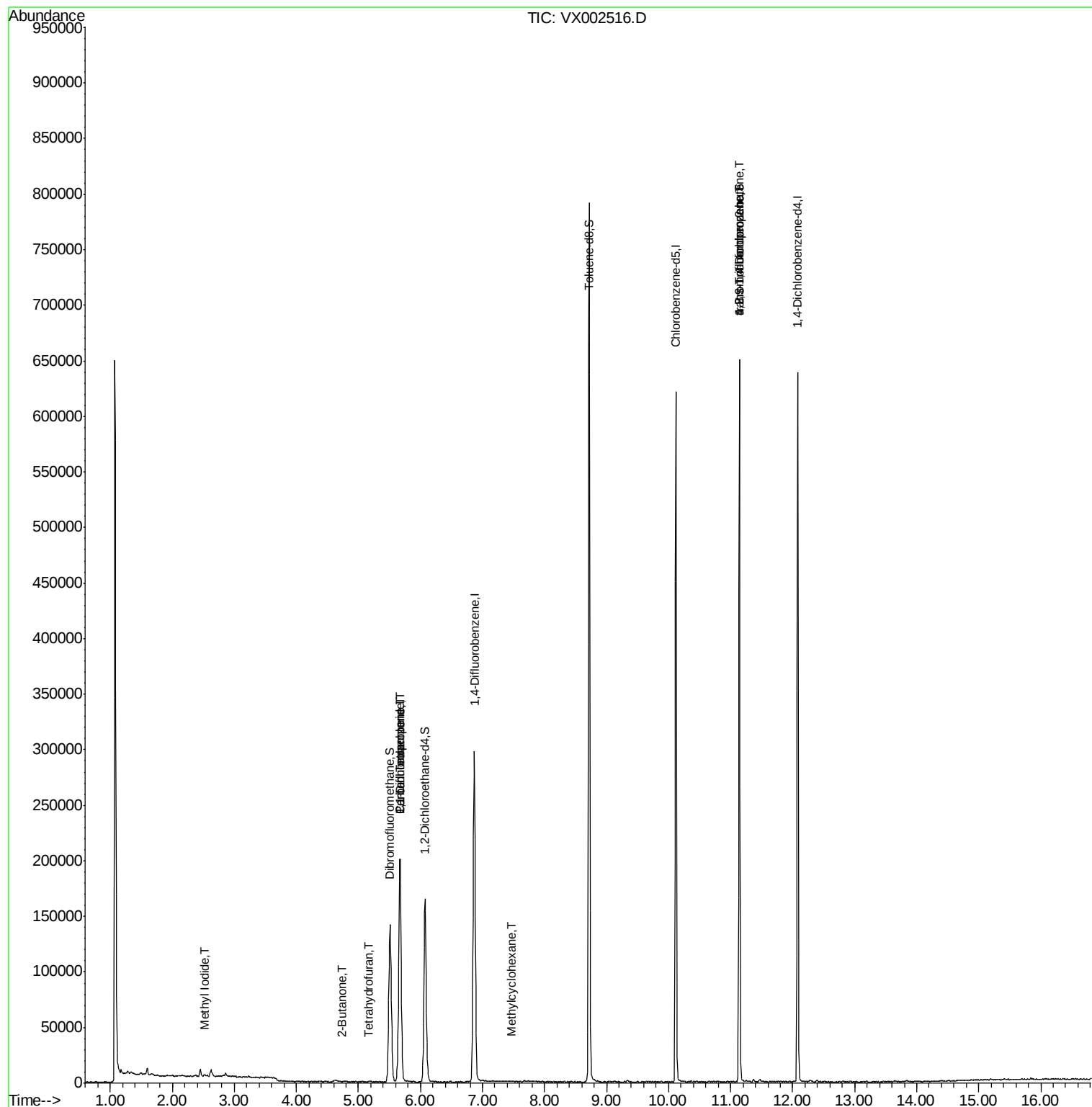
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	744	Below Cal	#	82
5) Bromomethane	1.66	94	1079	Below Cal	#	74
8) Diethyl Ether	2.17	74	55	Below Cal		57
10) Methyl Iodide	2.53	142	1910	0.64 ug/l	#	92
11) Tert butyl alcohol	3.08	59	49	Below Cal	#	1
13) Acrolein	2.29	56	303	Below Cal	#	57
15) Acrylonitrile	3.15	53	298	Below Cal	#	83
16) Acetone	2.45	43	6295	Below Cal		97
18) Methyl Acetate	2.78	43	643	Below Cal		100
19) Methyl tert-butyl Ether	3.20	73	18	Below Cal	#	54
20) Methylene Chloride	2.85	84	1279	Below Cal		91
22) Diisopropyl ether	3.90	45	89	Below Cal	#	35
25) 2-Butanone	4.72	43	396	0.20 ug/l	#	52
28) Bromochloromethane	5.00	49	19	Below Cal	#	13
29) Tetrahydrofuran	5.16	42	386	0.31 ug/l	#	48
36) 1,1-Dichloropropene	5.67	75	14602	4.76 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	18849	5.87 ug/l	#	15
39) Methylcyclohexane	7.46	83	98	0.29 ug/l	#	88
76) 1,2,3-Trichloropropane	11.14	75	79794	26.81 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	79794	93.97 ug/l	#	7

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

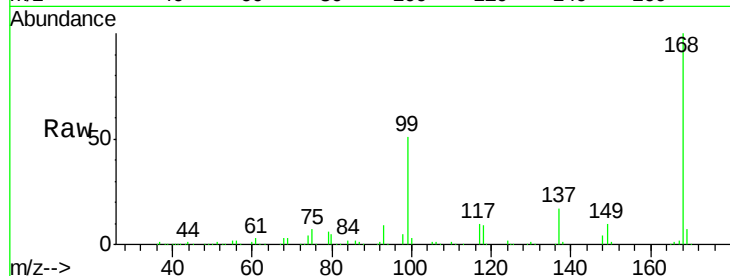
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 197127

Ion Ratio Lower Upper

168 100

99 50.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

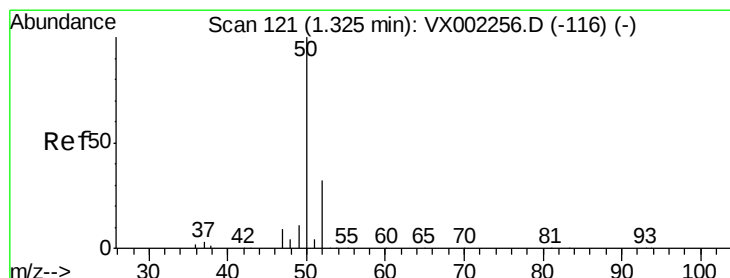
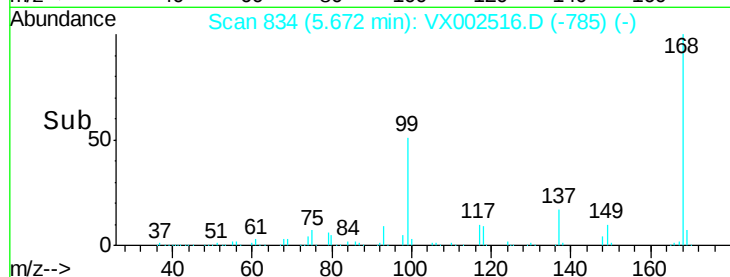
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002516.D

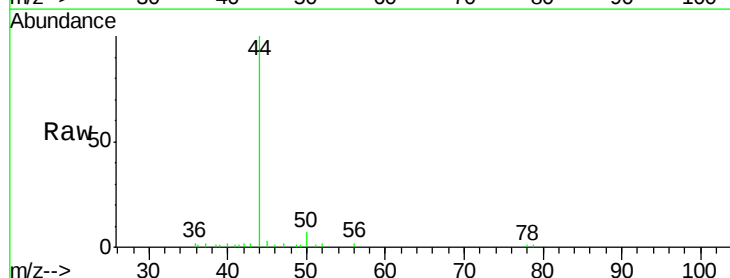
Acq: 13 Jun 2018 18:41

Tgt Ion: 50 Resp: 744

Ion Ratio Lower Upper

50 100

52 22.2 25.7 38.5#



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

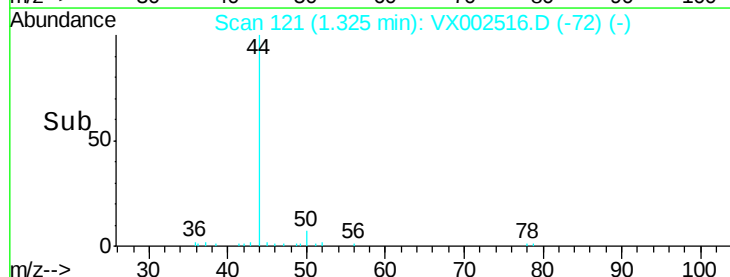
200

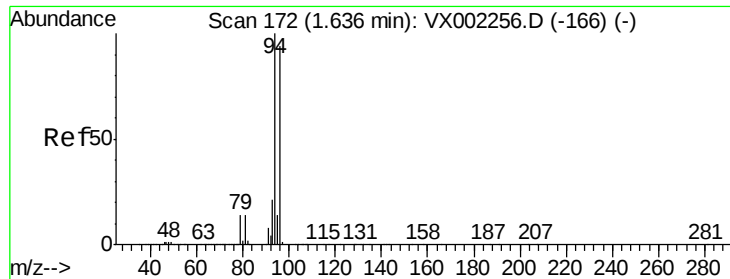
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

Instrument :

MSVOA_X

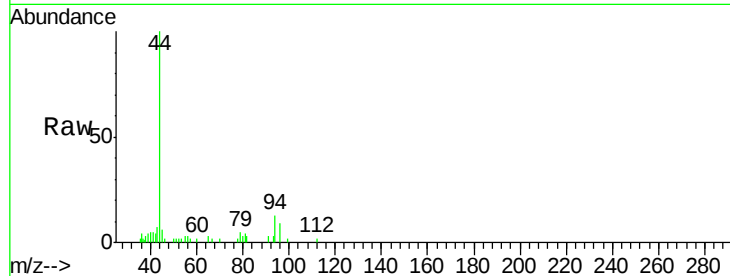
ClientSampled :

Tot Ion: 94 Resp: 1079

Ion Ratio Lower Upper

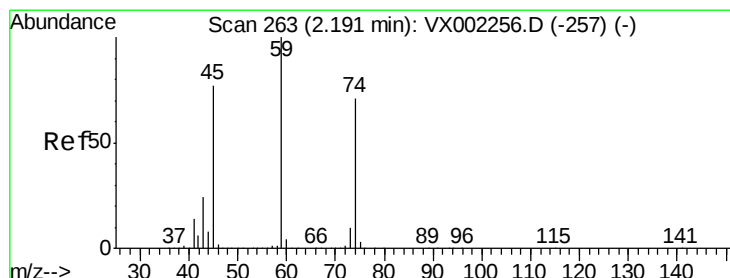
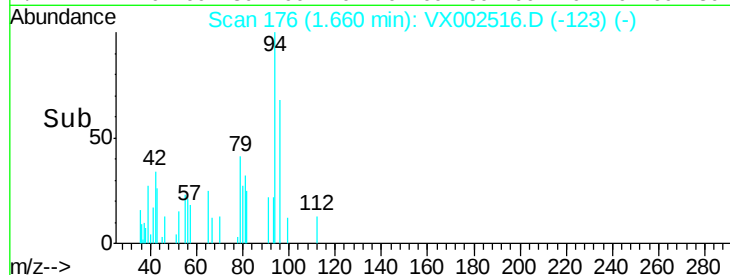
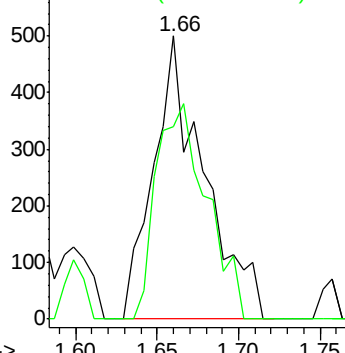
94 100

96 68.2 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 259

Delta R.T. -0.02 min

Lab File: VX002516.D

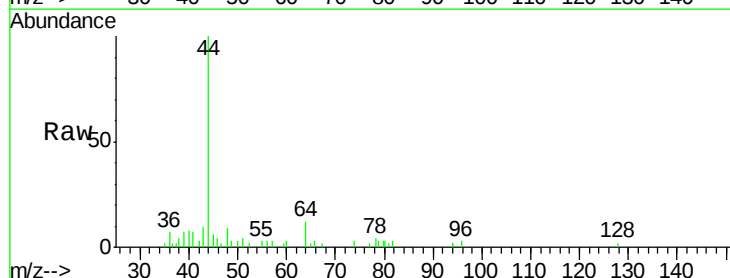
Acq: 13 Jun 2018 18:41

Tgt Ion: 74 Resp: 55

Ion Ratio Lower Upper

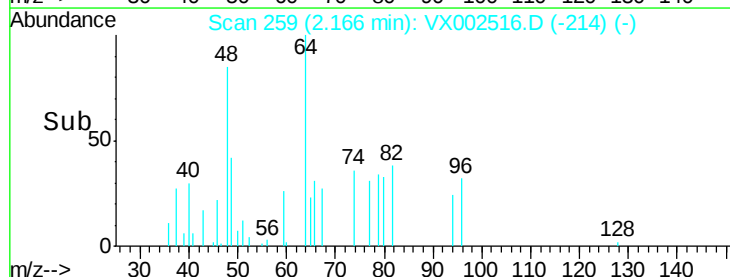
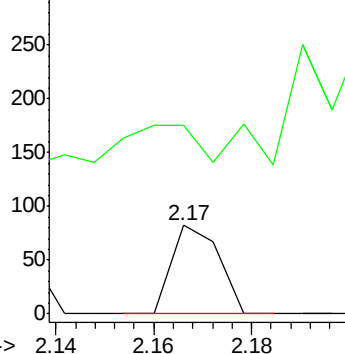
74 100

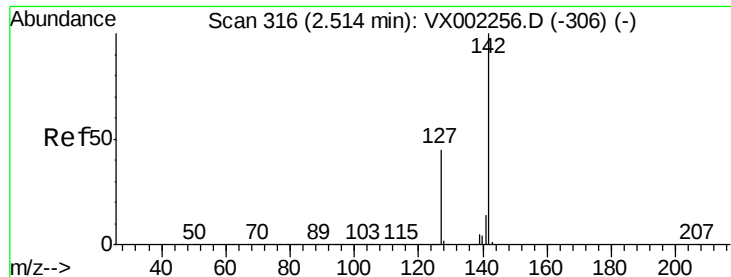
45 61.8 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methyl Iodide

Concen: 0.64 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

Instrument :

MSVOA_X

ClientSampled :

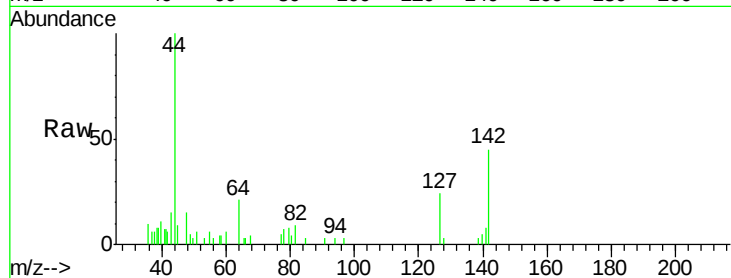
Tot Ion:142 Resp: 1910

Ion Ratio Lower Upper

142 100

127 50.9 36.6 55.0

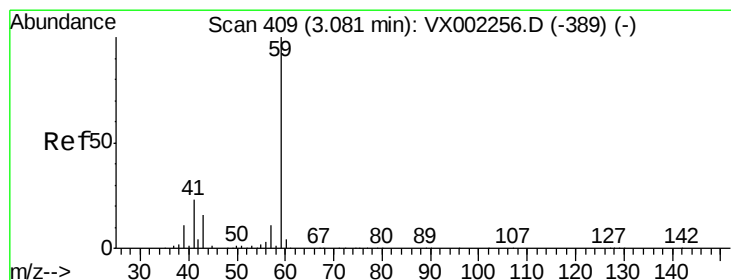
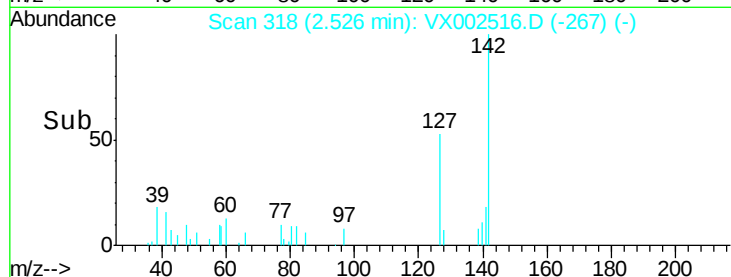
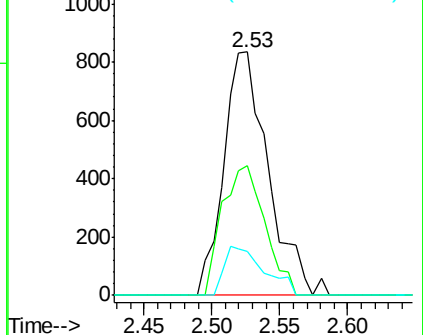
141 18.0 11.3 16.9#



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: Below Cal

RT: 3.08 min Scan# 409

Delta R.T. 0.00 min

Lab File: VX002516.D

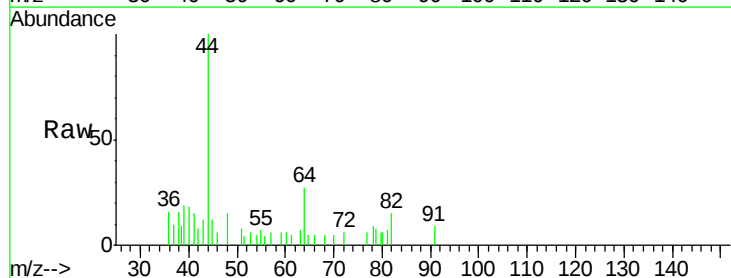
Acq: 13 Jun 2018 18:41

Tgt Ion: 59 Resp: 49

Ion Ratio Lower Upper

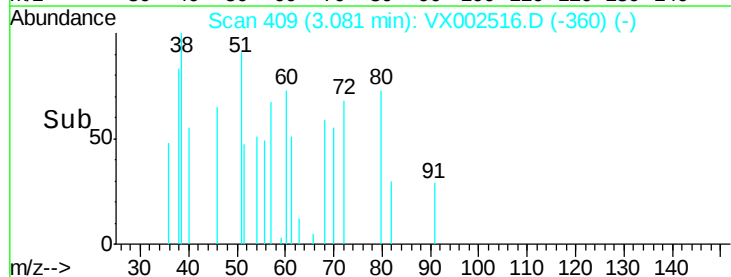
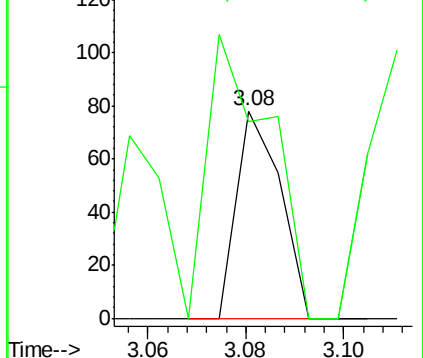
59 100

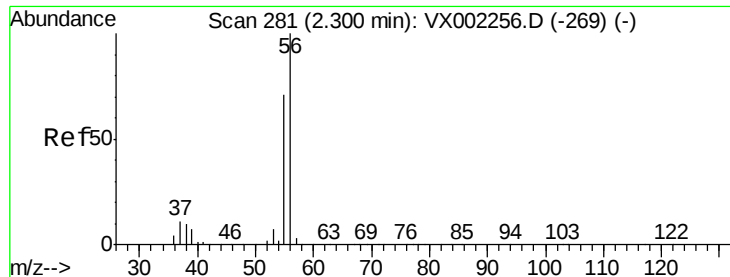
57 191.8 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

Instrument :

MSVOA_X

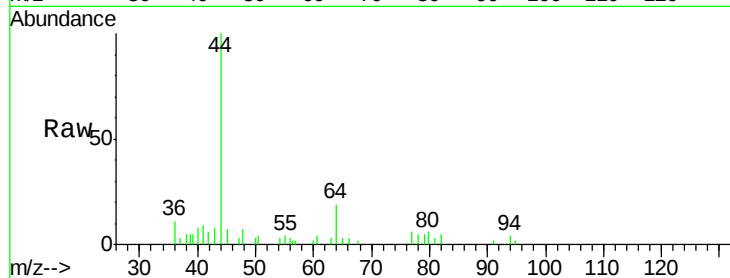
ClientSampled :

Tot Ion: 56 Resp: 303

Ion Ratio Lower Upper

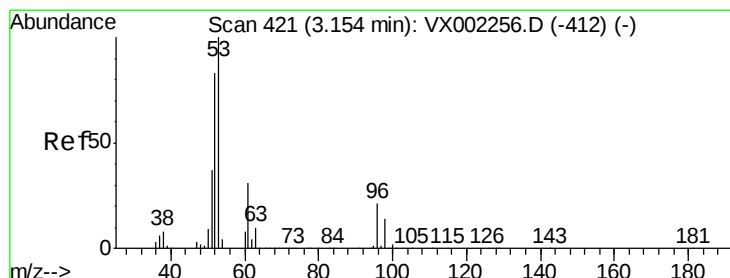
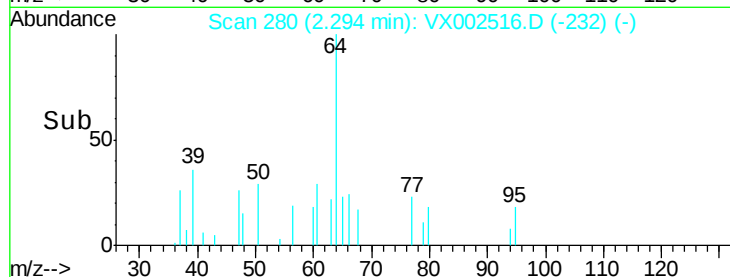
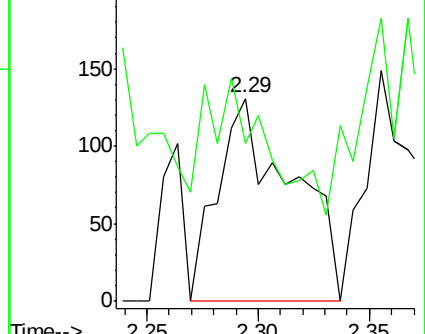
56 100

55 35.3 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

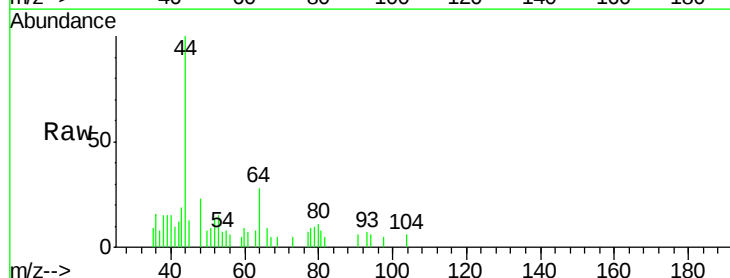
Tgt Ion: 53 Resp: 298

Ion Ratio Lower Upper

53 100

52 83.2 66.7 100.1

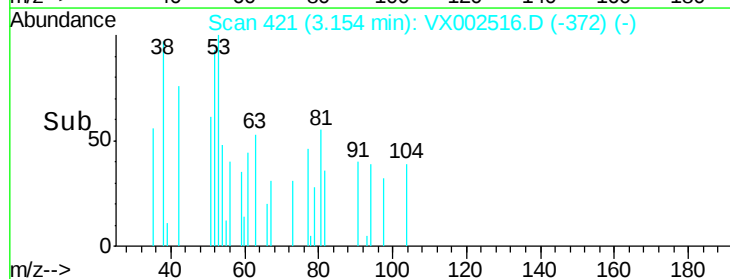
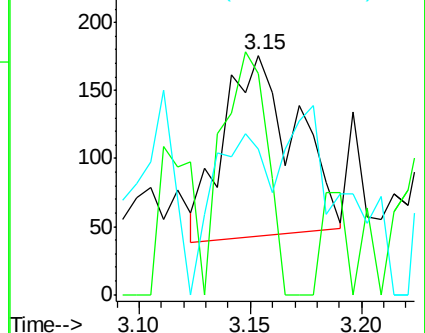
51 69.1 29.9 44.9#

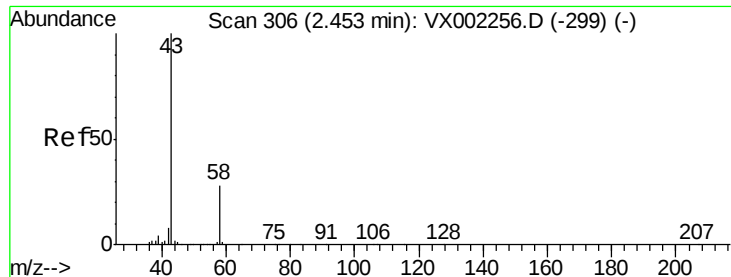


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

Instrument :

MSVOA_X

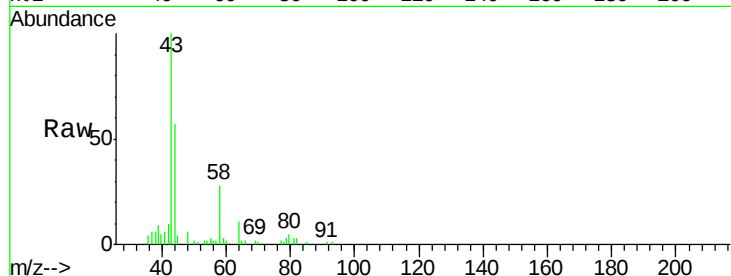
ClientSampleId :

Tot Ion: 43 Resp: 6295

Ion Ratio Lower Upper

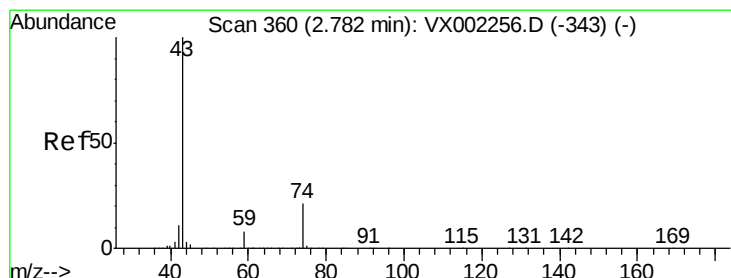
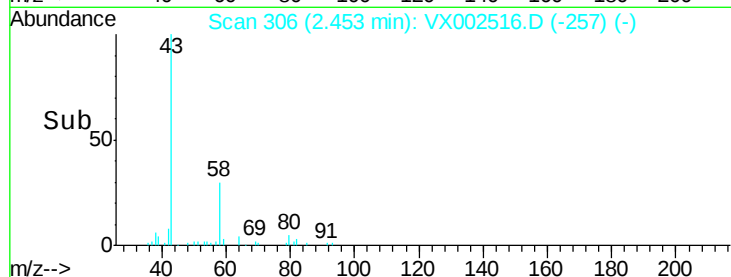
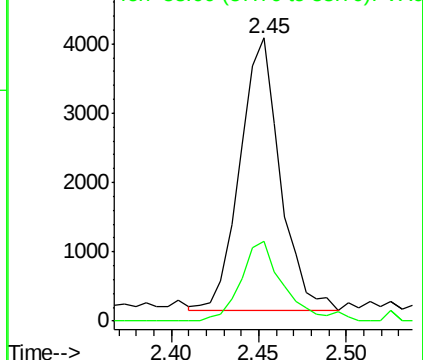
43 100

58 29.4 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002516.D

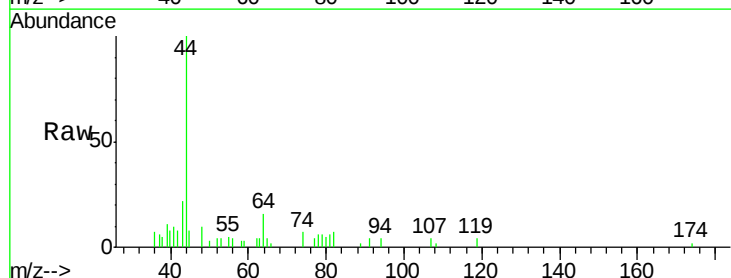
Acq: 13 Jun 2018 18:41

Tgt Ion: 43 Resp: 643

Ion Ratio Lower Upper

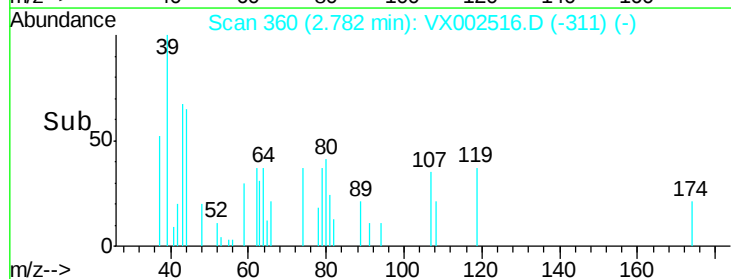
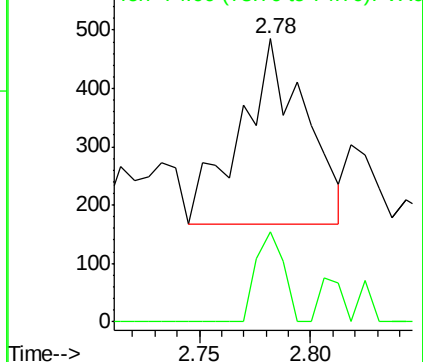
43 100

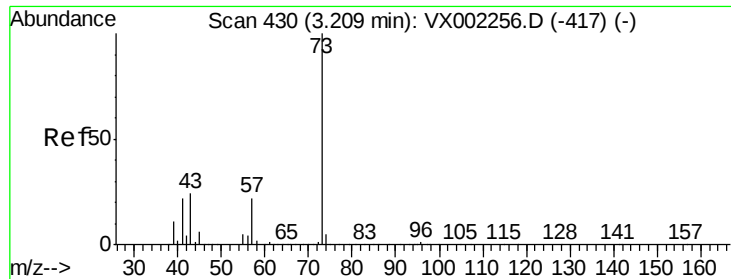
74 20.7 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

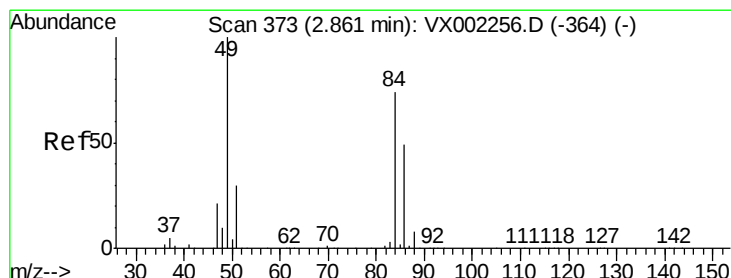
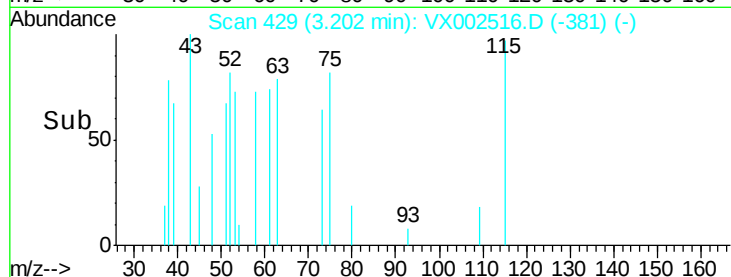
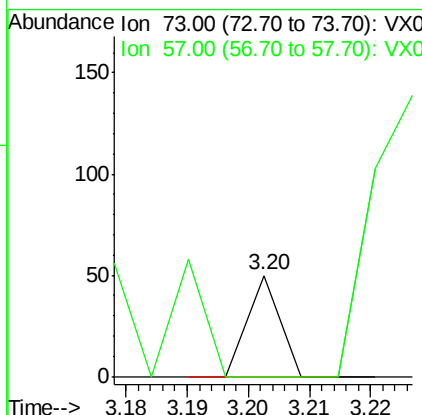
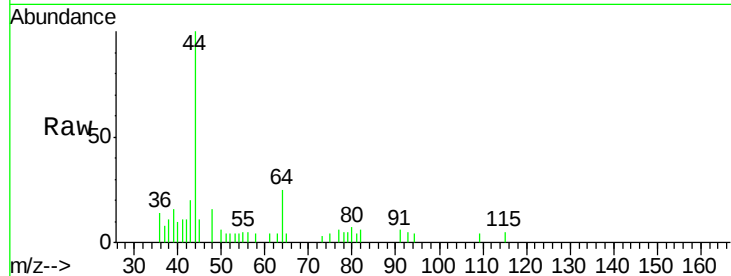




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 429
Delta R.T. -0.01 min
Lab File: VX002516.D
Acq: 13 Jun 2018 18:41

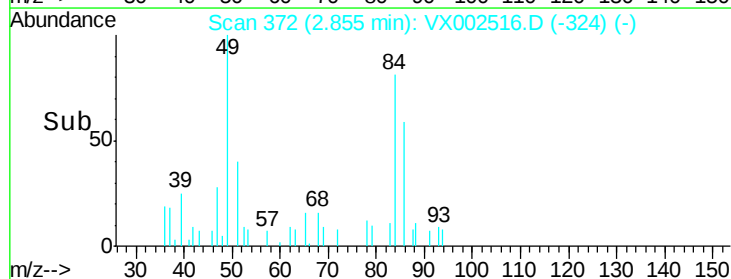
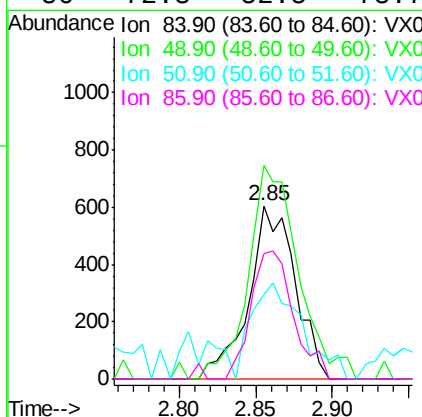
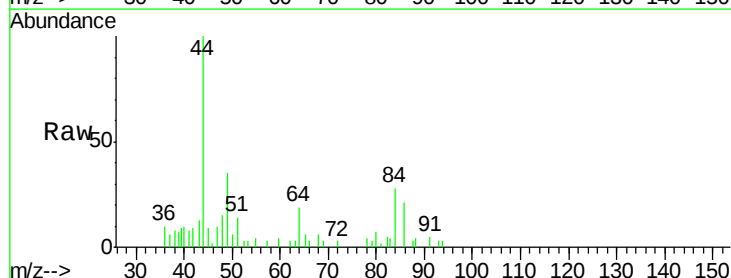
Instrument :
MSVOA_X
ClientSampled :

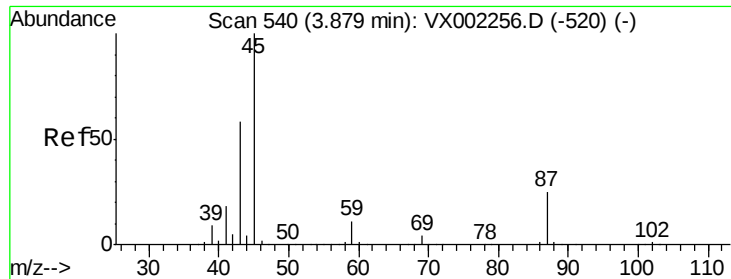
Tot Ion: 73 Resp: 18
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002516.D
Acq: 13 Jun 2018 18:41

Tgt Ion: 84 Resp: 1279
Ion Ratio Lower Upper
84 100
49 123.1 107.8 161.6
51 34.7 32.8 49.2
86 72.3 52.5 78.7



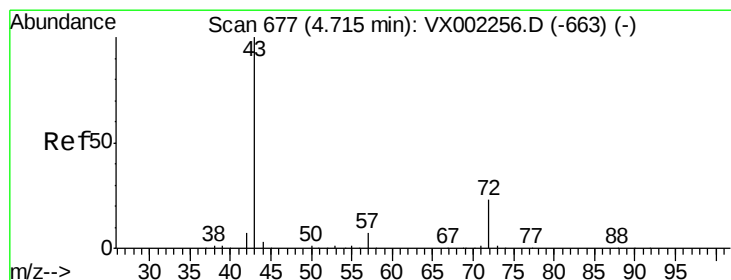
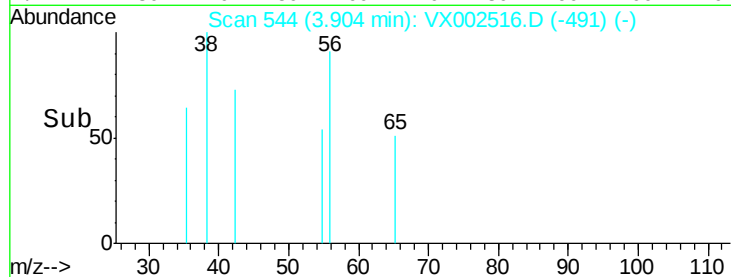
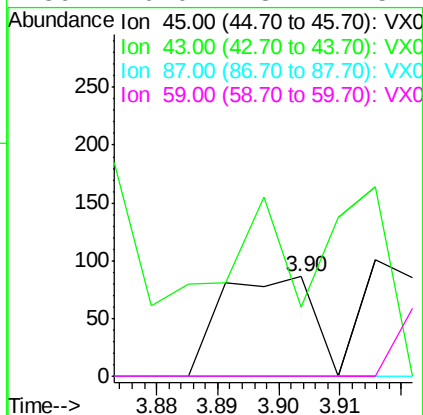
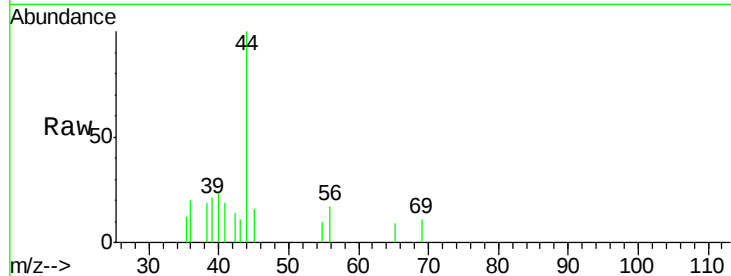


#22

Diisopropyl ether
 Concen: Below Cal
 RT: 3.90 min Scan# 544
 Delta R.T. 0.02 min
 Lab File: VX002516.D
 Acq: 13 Jun 2018 18:41

Instrument :
 MSVOA_X
 ClientSampleId :

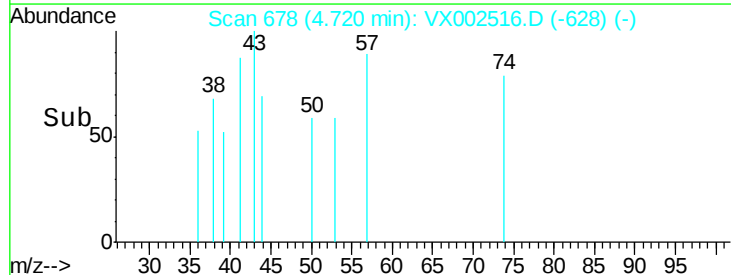
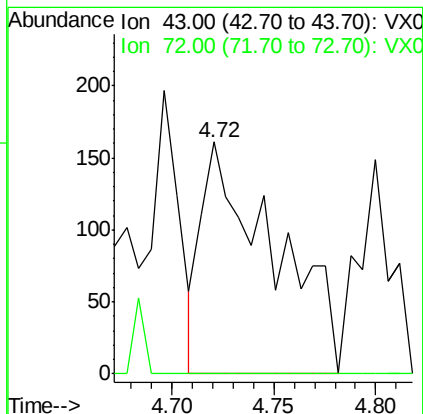
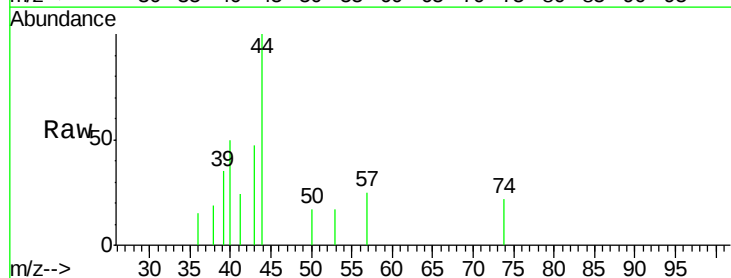
Tot Ion:	45	Resp:	89
Ion	Ratio	Lower	Upper
45	100		
43	0.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

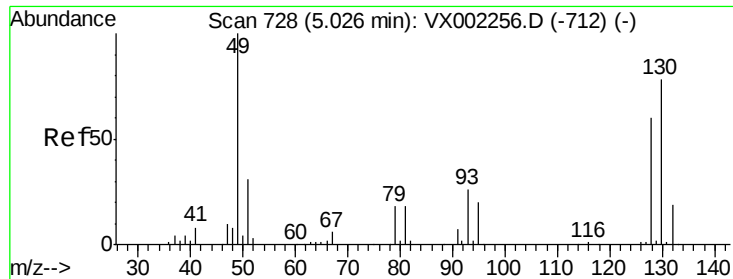


#25

2-Butanone
 Concen: 0.20 ug/l
 RT: 4.72 min Scan# 678
 Delta R.T. 0.01 min
 Lab File: VX002516.D
 Acq: 13 Jun 2018 18:41

Tgt Ion:	43	Resp:	396
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.5	27.7#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 724

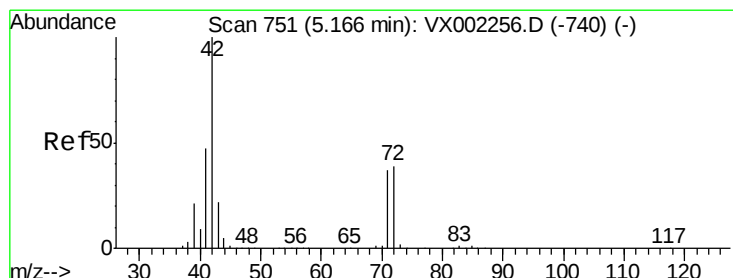
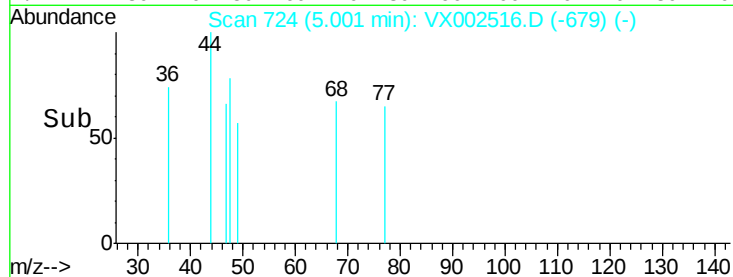
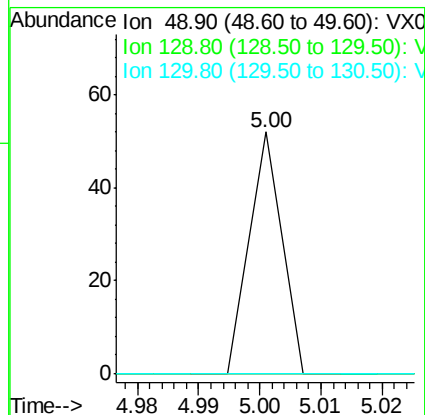
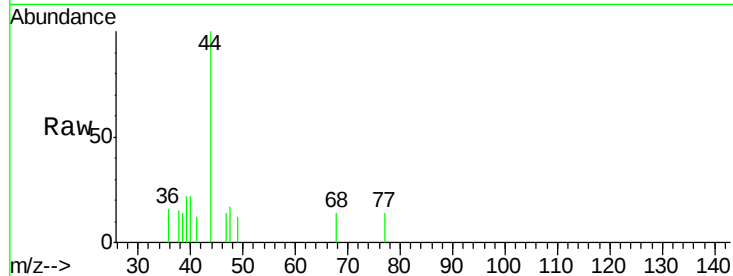
Delta R.T. -0.02 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 19
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 0.31 ug/l

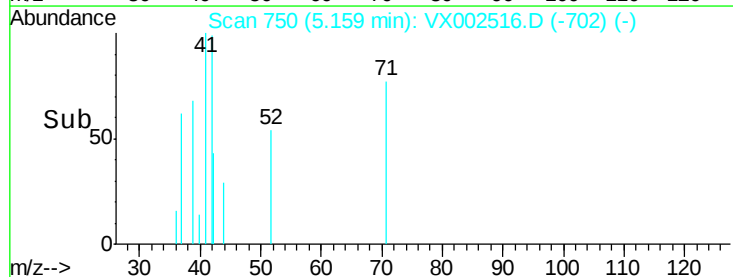
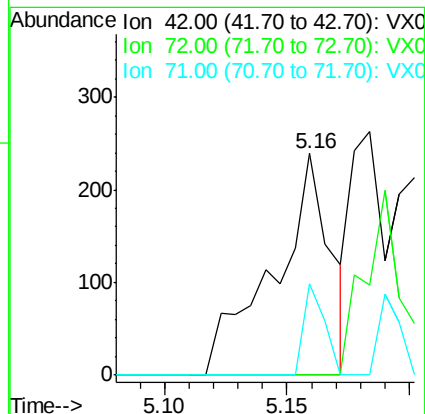
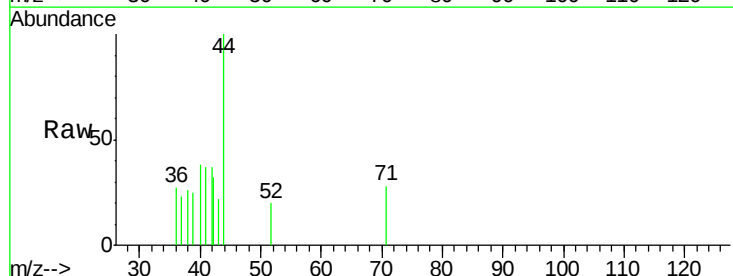
RT: 5.16 min Scan# 750

Delta R.T. -0.01 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

Tgt Ion: 42 Resp: 386
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 15.0 30.1 45.1#

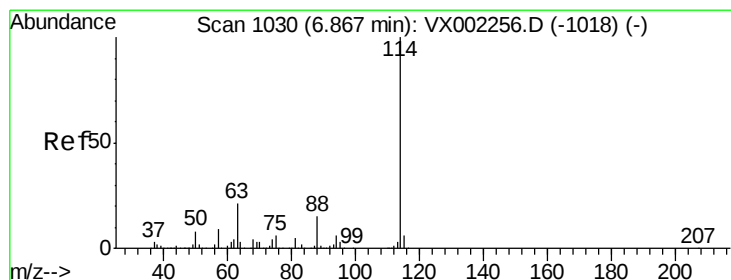
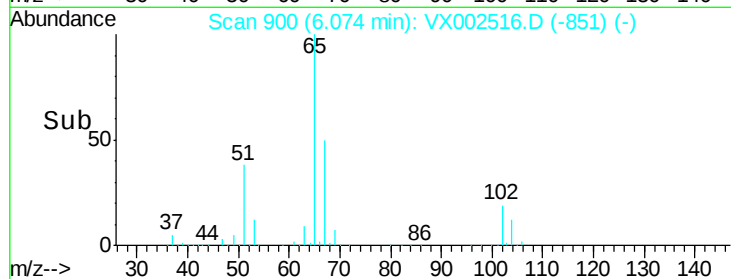
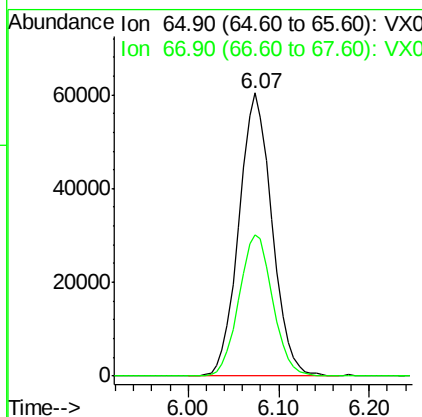
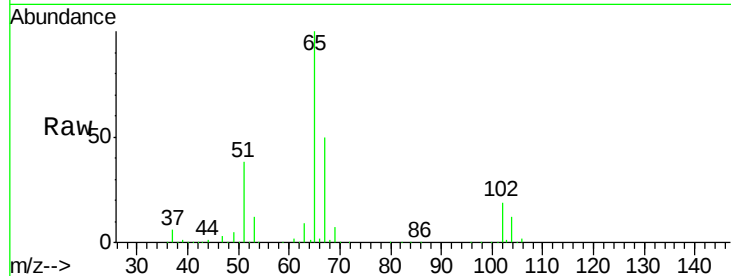




#33
 1,2-Dichloroethane-d4
 Concen: 54.44 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002516.D
 Acq: 13 Jun 2018 18:41

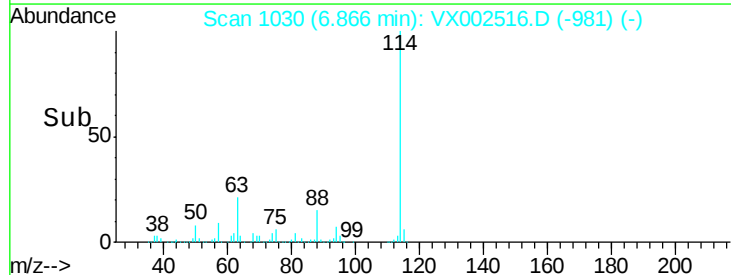
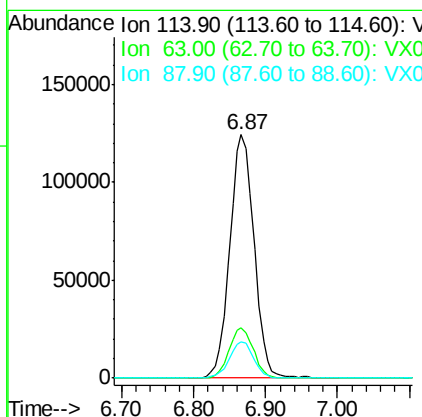
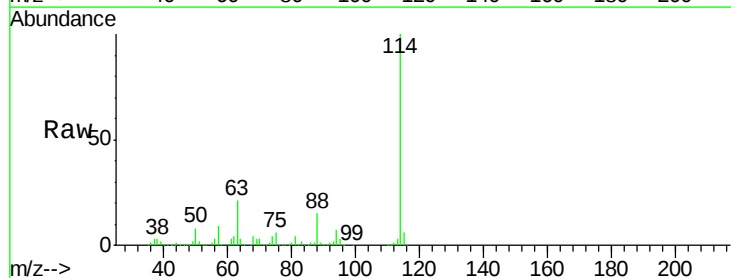
Instrument :
 MSVOA_X
 ClientSampleId :

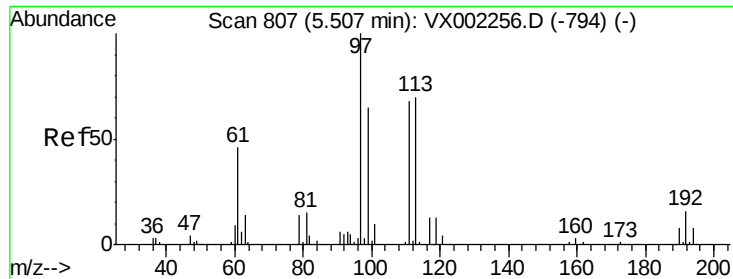
Tot Ion: 65 Resp: 152605
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002516.D
 Acq: 13 Jun 2018 18:41

Tgt Ion: 114 Resp: 291880
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 41.4
 88 15.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 49.41 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

Instrument :

MSVOA_X

ClientSampled :

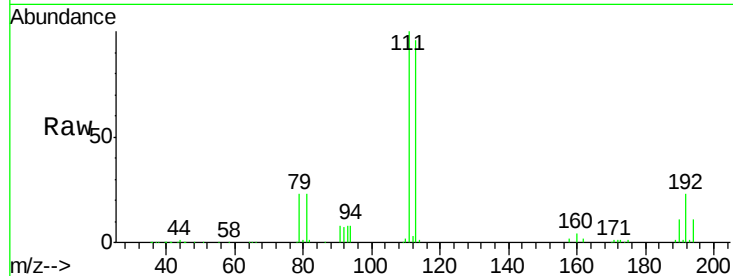
Tot Ion:113 Resp: 113409

Ion Ratio Lower Upper

113 100

111 102.7 81.4 122.0

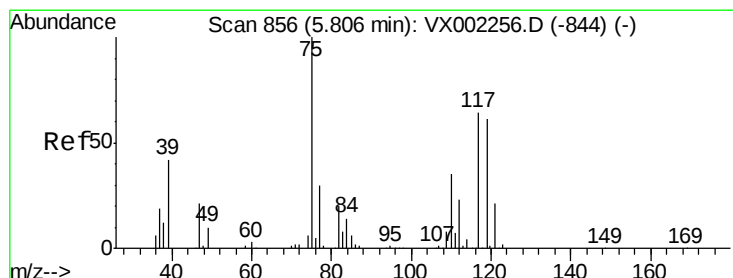
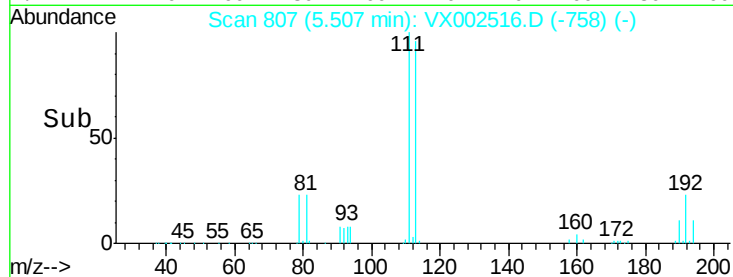
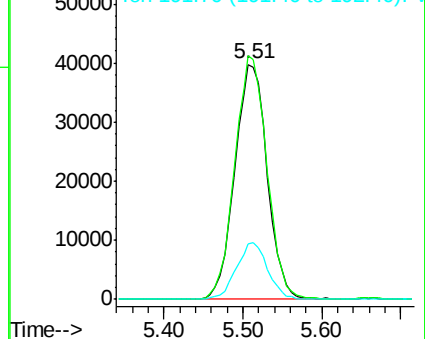
192 23.3 19.1 28.7



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: 4.76 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

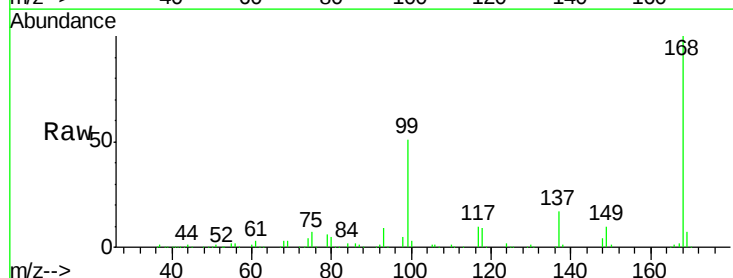
Tgt Ion: 75 Resp: 14602

Ion Ratio Lower Upper

75 100

110 9.9 18.1 54.4#

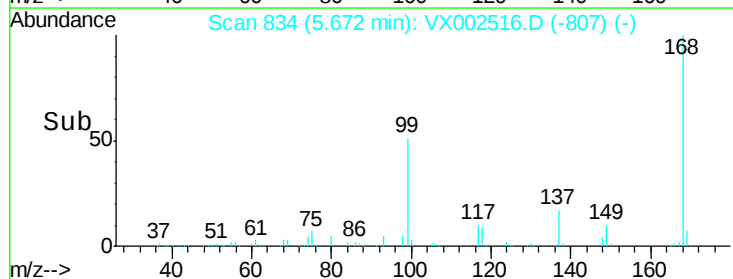
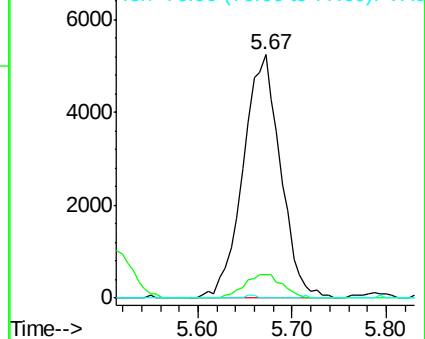
77 0.3 24.3 36.5#

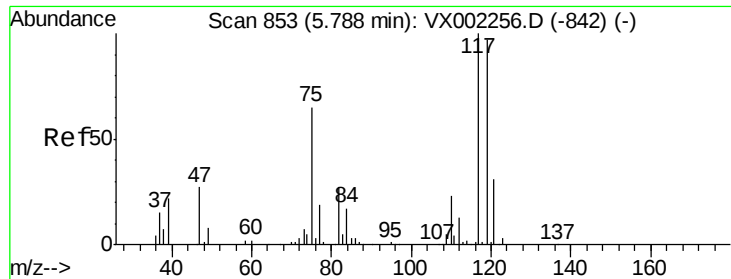


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.87 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

Instrument :

MSVOA_X

ClientSampleId :

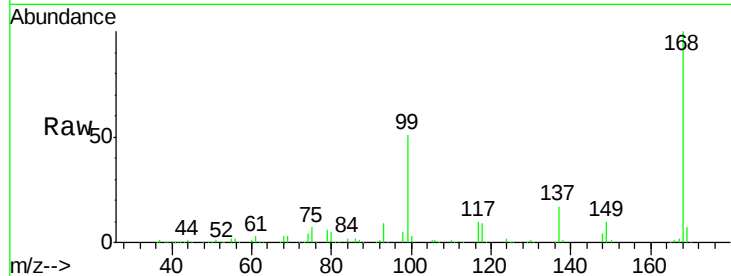
Tot Ion:117 Resp: 18849

Ion Ratio Lower Upper

117 100

119 3.9 77.4 116.0#

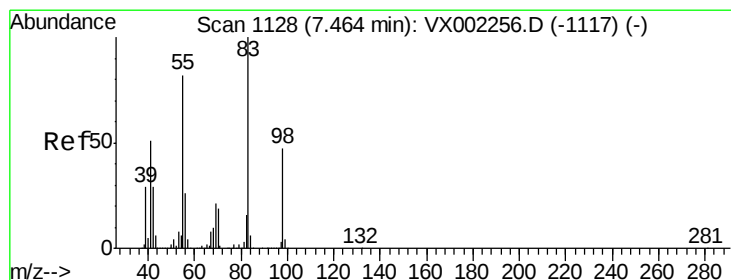
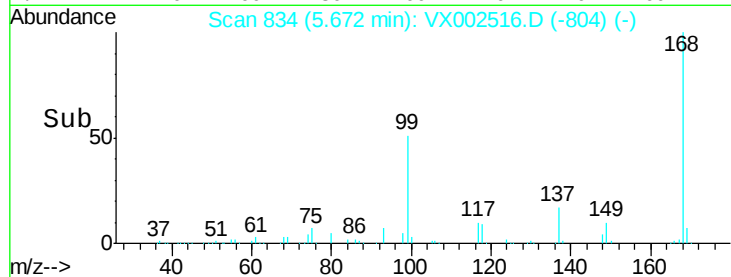
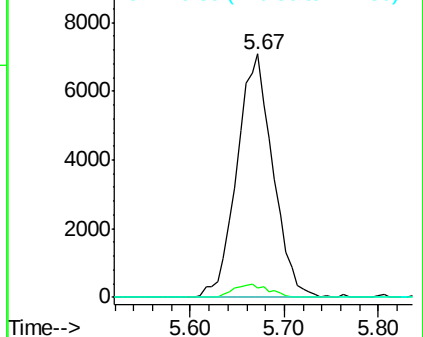
121 0.0 24.4 36.6#



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



#39

Methylcyclohexane

Concen: 0.29 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

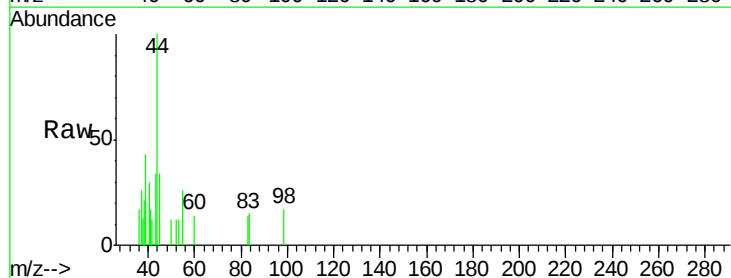
Tgt Ion: 83 Resp: 98

Ion Ratio Lower Upper

83 100

55 89.0 65.4 98.0

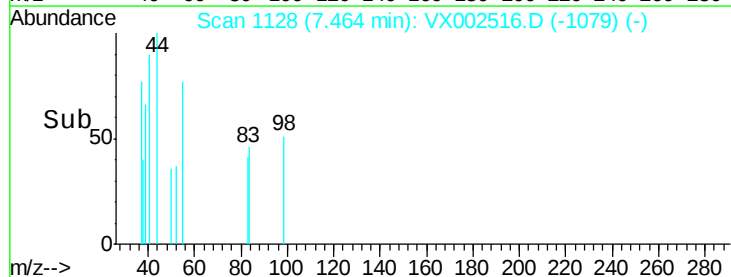
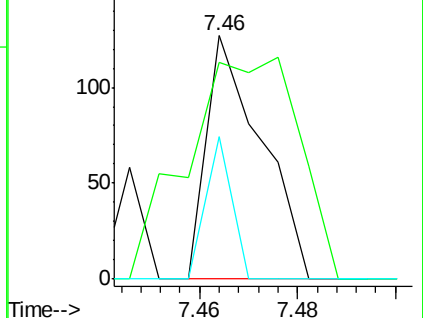
98 58.3 37.4 56.0#

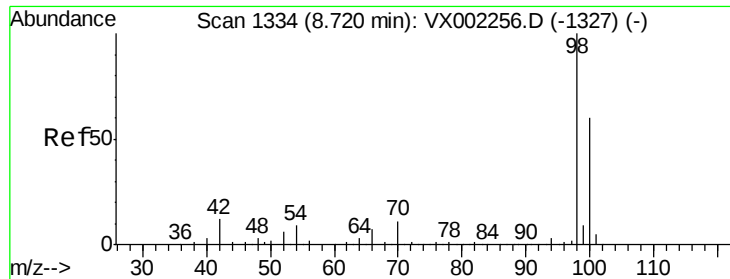


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

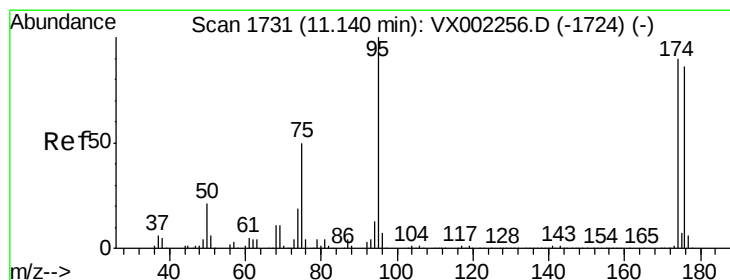
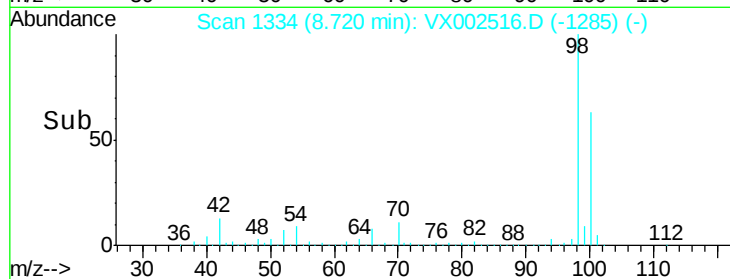
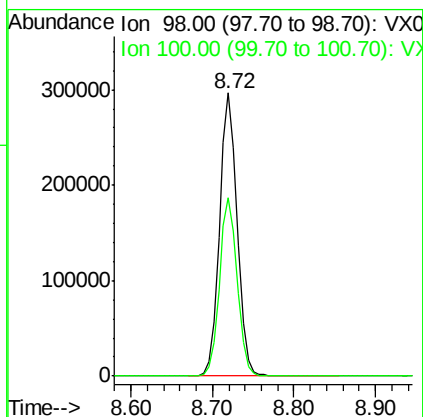
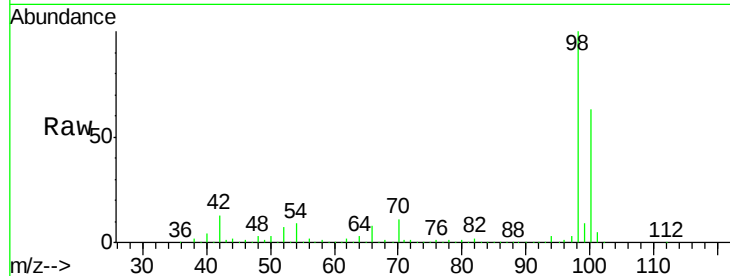




#50
Toluene-d8
Concen: 50.93 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002516.D
Acq: 13 Jun 2018 18:41

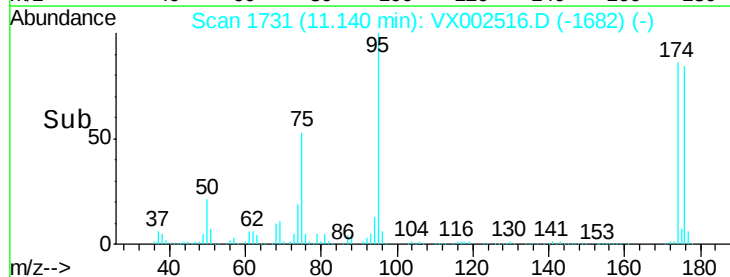
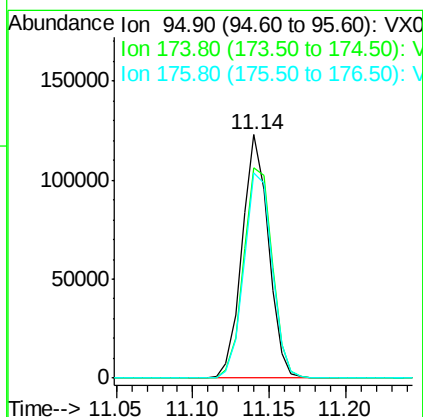
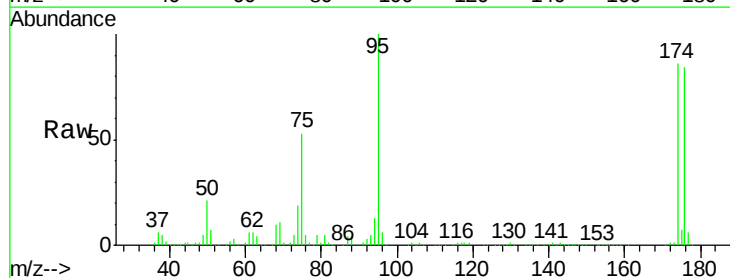
Instrument :
MSVOA_X
ClientSampleId :

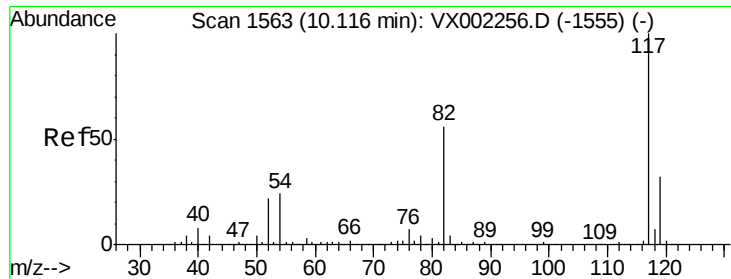
Tot Ion: 98 Resp: 448099
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 43.44 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002516.D
Acq: 13 Jun 2018 18:41

Tgt Ion: 95 Resp: 147361
Ion Ratio Lower Upper
95 100
174 93.7 0.0 187.4
176 90.1 0.0 181.0

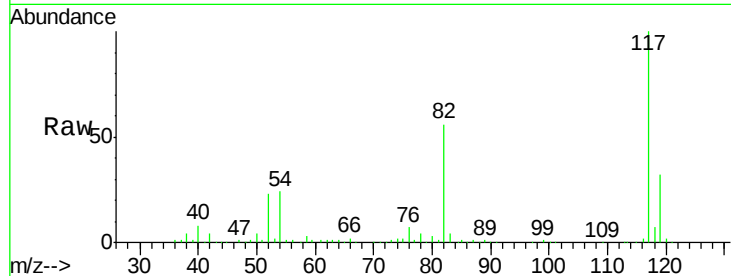




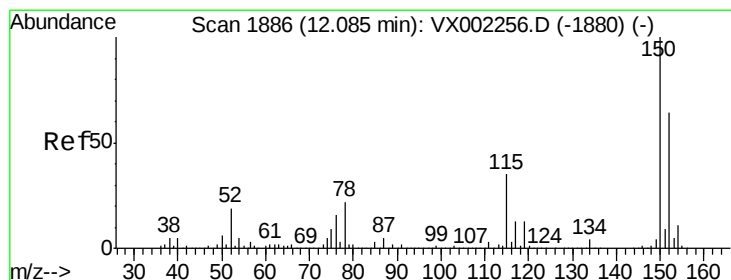
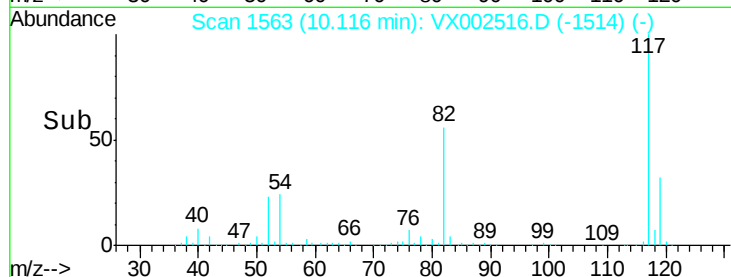
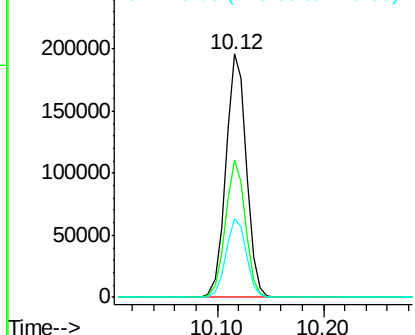
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002516.D
Acq: 13 Jun 2018 18:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 263982
Ion Ratio Lower Upper
117 100
82 56.5 45.0 67.4
119 32.4 25.8 38.6

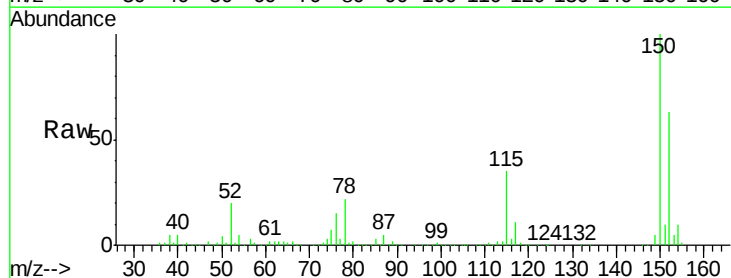


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

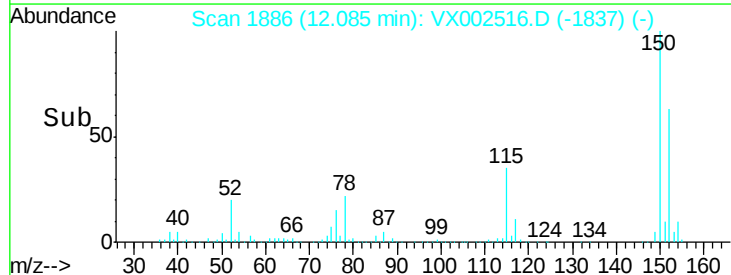
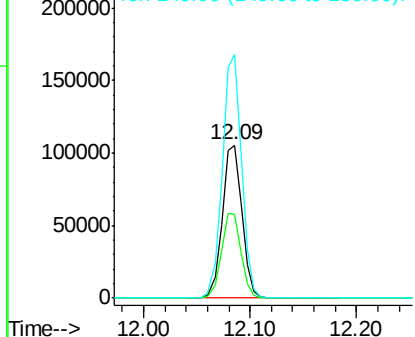


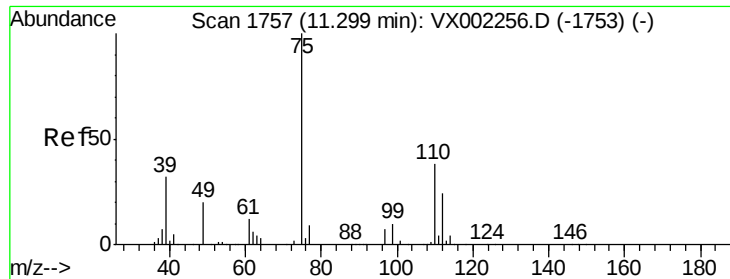
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002516.D
Acq: 13 Jun 2018 18:41

Tgt Ion:152 Resp: 135656
Ion Ratio Lower Upper
152 100
115 55.2 40.1 120.2
150 156.6 0.0 347.2



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: 26.81 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

Instrument :

MSVOA_X

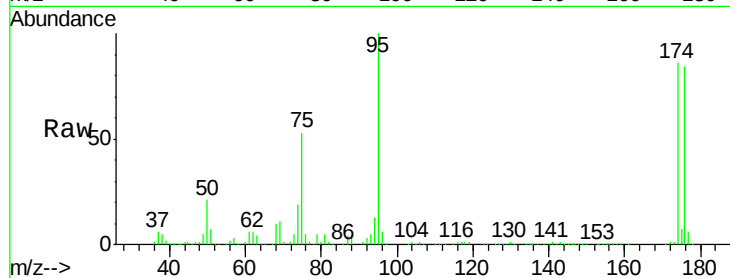
ClientSampleId :

Tot Ion: 75 Resp: 79794

Ion Ratio Lower Upper

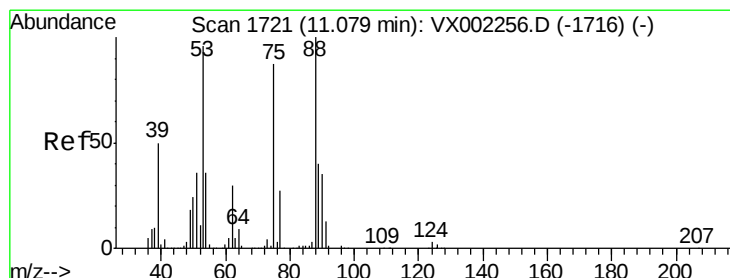
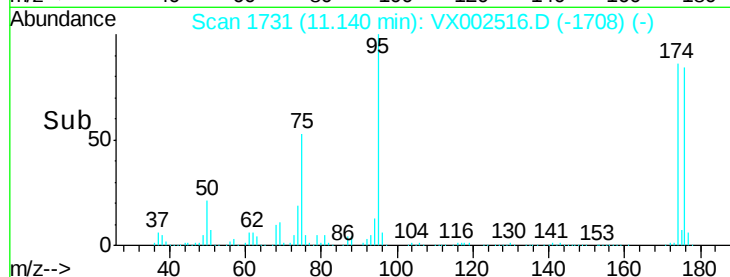
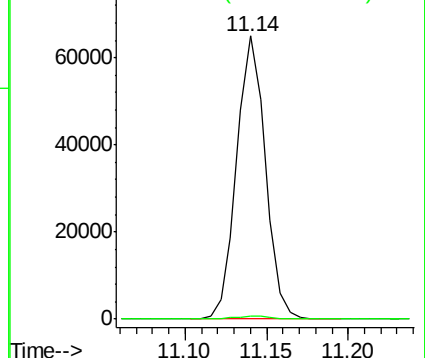
75 100

77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 93.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002516.D

Acq: 13 Jun 2018 18:41

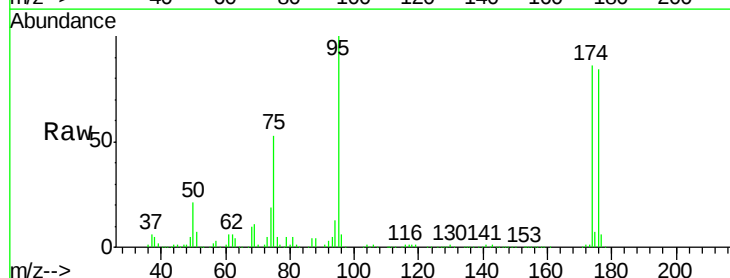
Tgt Ion: 75 Resp: 79794

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



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

