

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061318\
 Data File : VX002518.D
 Acq On : 13 Jun 2018 19:35
 Operator : JC/MD
 Sample : J3402-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 14 01:48:40 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	199025	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	291754	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	267909	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	137132	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	159618	56.54	ug/l	0.00
Spiked Amount			Recovery	=	113.08%	
35) Dibromofluoromethane	5.51	113	118755	51.76	ug/l	0.00
Spiked Amount			Recovery	=	103.52%	
50) Toluene-d8	8.72	98	462512	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	
62) 4-Bromofluorobenzene	11.14	95	151595	44.70	ug/l	0.00
Spiked Amount			Recovery	=	89.40%	

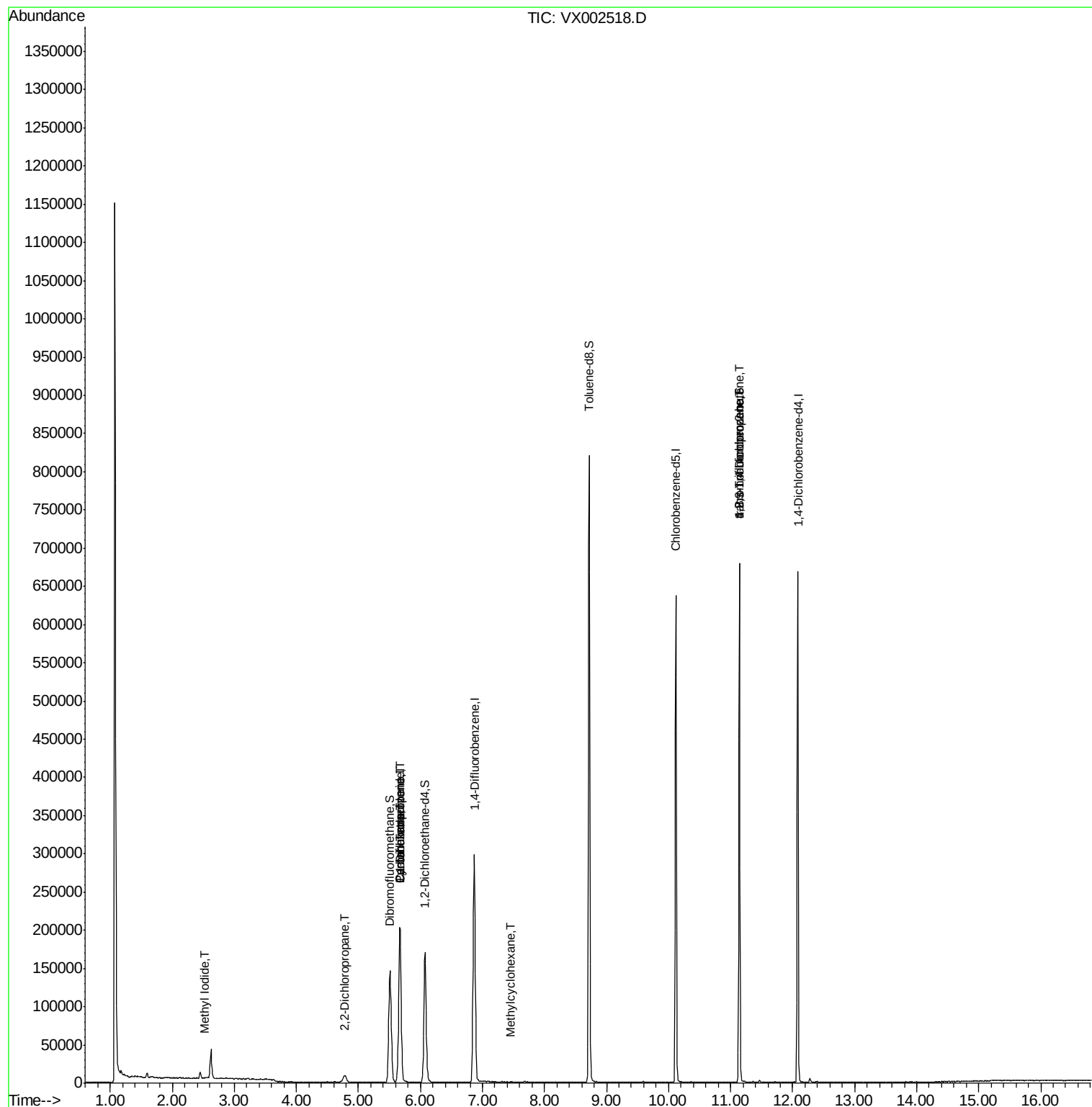
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	567	Below Cal		93
5) Bromomethane	1.66	94	947	Below Cal		100
8) Diethyl Ether	2.21	74	69	Below Cal		60
10) Methyl Iodide	2.51	142	1096	0.36 ug/l	#	83
11) Tert butyl alcohol	3.07	59	503	Below Cal	#	86
13) Acrolein	2.29	56	163	Below Cal	#	40
15) Acrylonitrile	3.16	53	297	Below Cal	#	51
16) Acetone	2.45	43	9423	Below Cal		97
18) Methyl Acetate	2.79	43	380	Below Cal	#	73
19) Methyl tert-butyl Ether	3.20	73	684	Below Cal	#	71
20) Methylene Chloride	2.87	84	215	Below Cal	#	73
22) Diisopropyl ether	3.88	45	42	Below Cal	#	73
26) 2,2-Dichloropropane	4.78	77	914	0.26 ug/l	#	53
28) Bromochloromethane	5.01	49	21	Below Cal	#	13
31) Cyclohexane	5.67	56	4895	1.36 ug/l	#	51
36) 1,1-Dichloropropene	5.67	75	14905	4.86 ug/l	#	51
38) Carbon Tetrachloride	5.67	117	19013	5.93 ug/l	#	17
39) Methylcyclohexane	7.46	83	46	0.27 ug/l	#	37
76) 1,2,3-Trichloropropane	11.14	75	83456	27.74 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	83456	97.22 ug/l	#	7

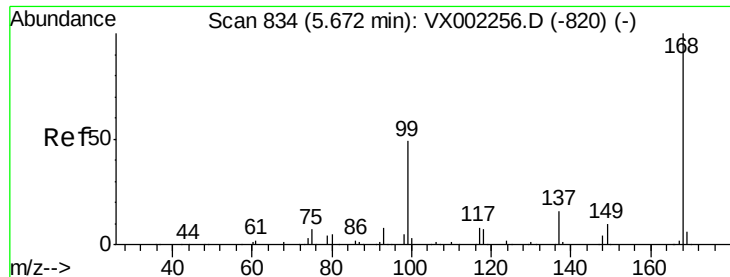
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002518.D

Acq: 13 Jun 2018 19:35

Instrument :

MSVOA_X

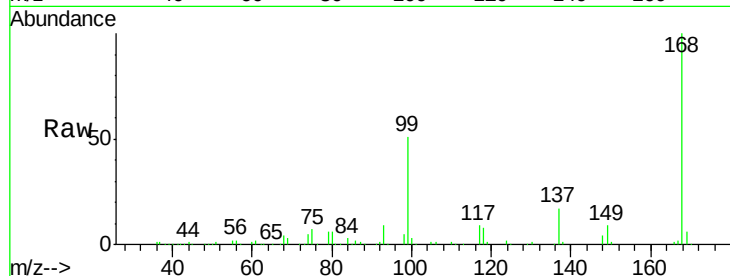
ClientSampleId :

Tot Ion:168 Resp: 199025

Ion Ratio Lower Upper

168 100

99 50.6 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

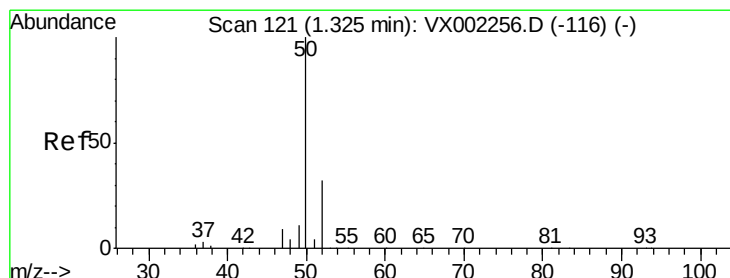
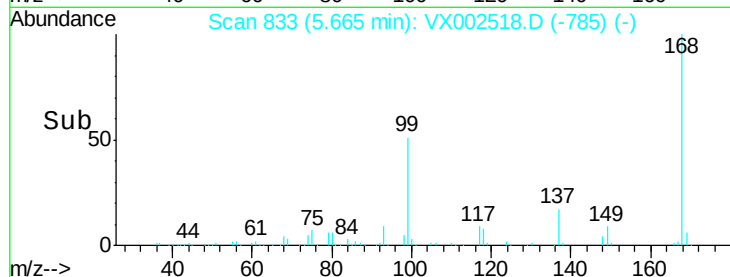
40000

20000

0

5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002518.D

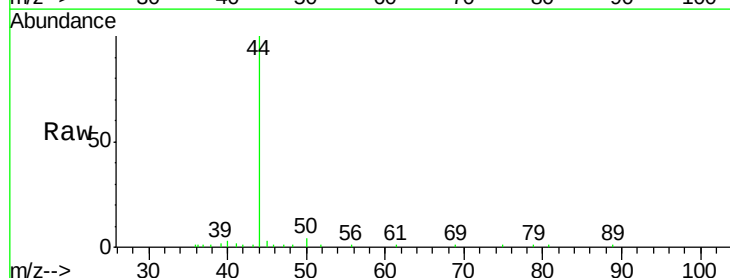
Acq: 13 Jun 2018 19:35

Tgt Ion: 50 Resp: 567

Ion Ratio Lower Upper

50 100

52 28.4 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

300

250

200

150

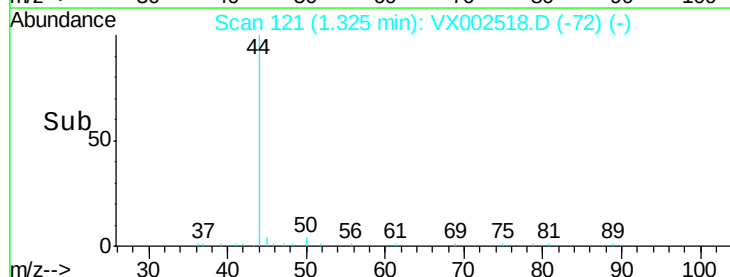
100

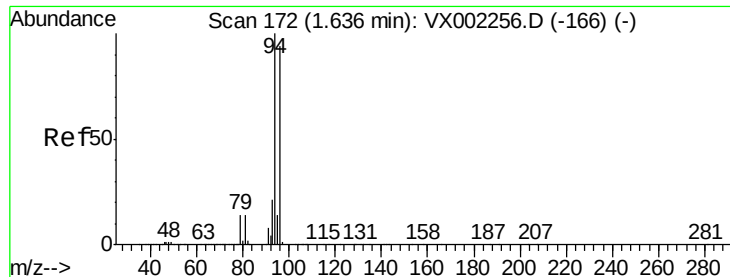
50

0

1.25 1.30 1.35 1.40

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002518.D

Acq: 13 Jun 2018 19:35

Instrument :

MSVOA_X

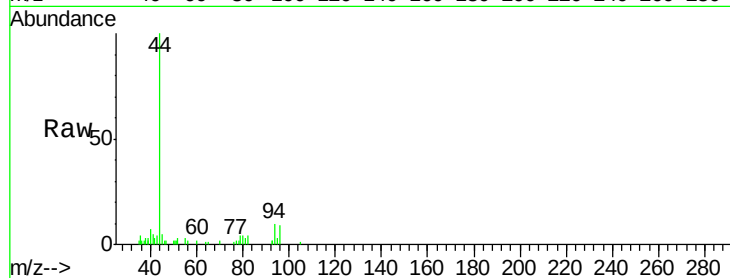
ClientSampled :

Tot Ion: 94 Resp: 947

Ion Ratio Lower Upper

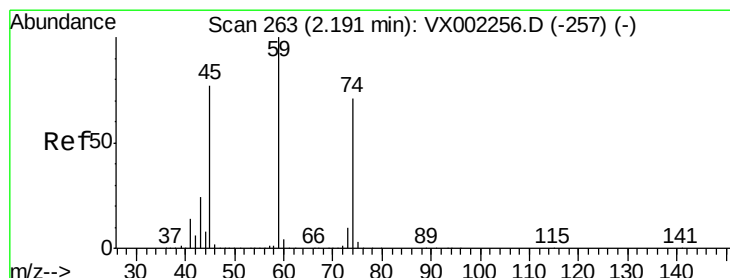
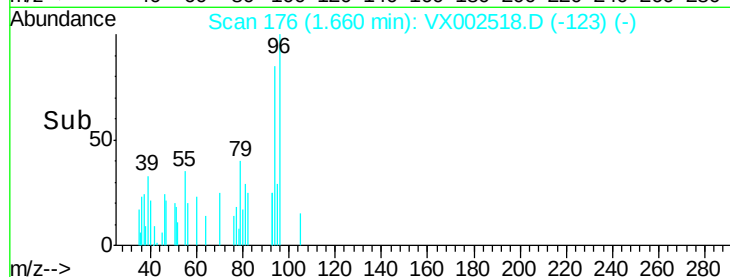
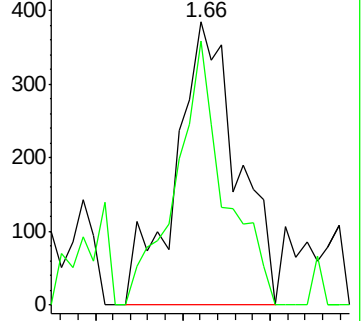
94 100

96 93.5 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: 2.21 min Scan# 266

Delta R.T. 0.02 min

Lab File: VX002518.D

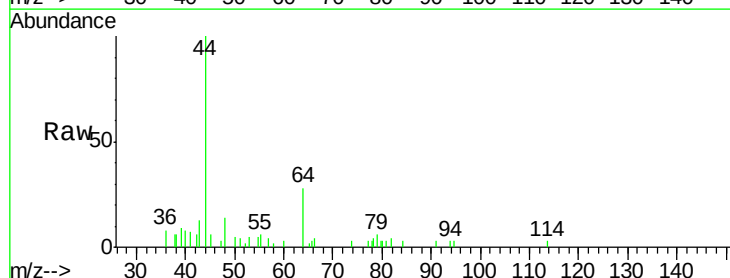
Acq: 13 Jun 2018 19:35

Tgt Ion: 74 Resp: 69

Ion Ratio Lower Upper

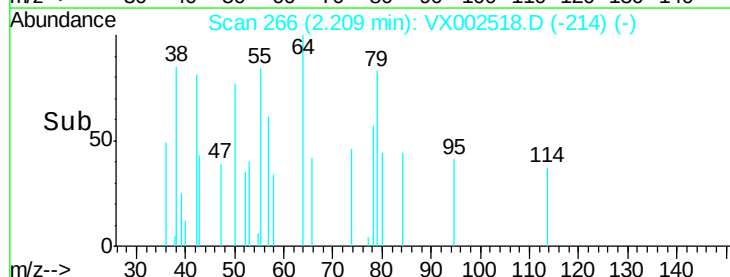
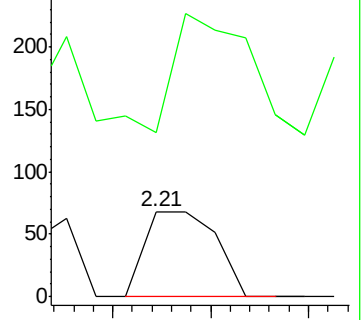
74 100

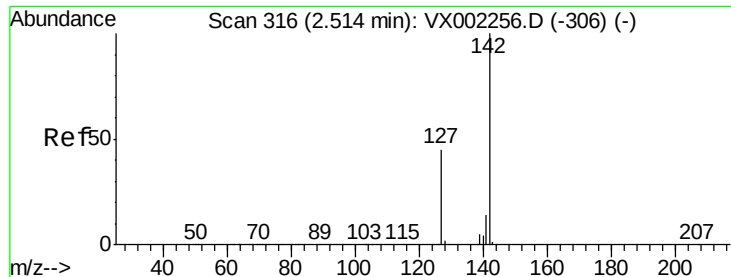
45 147.8 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

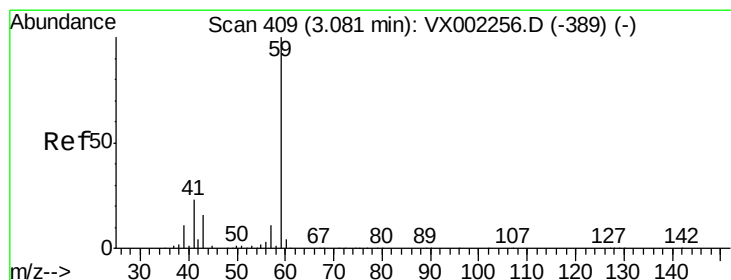
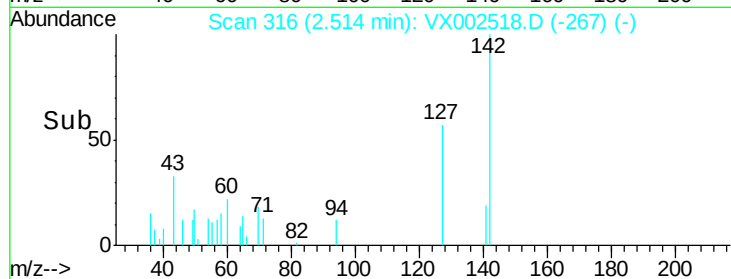
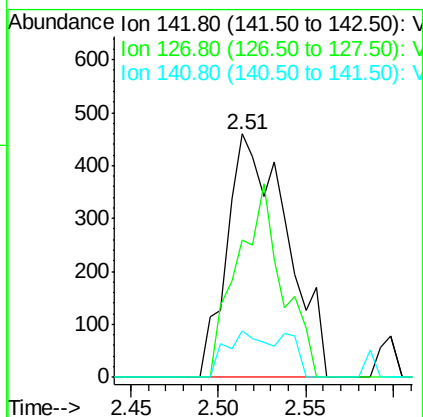
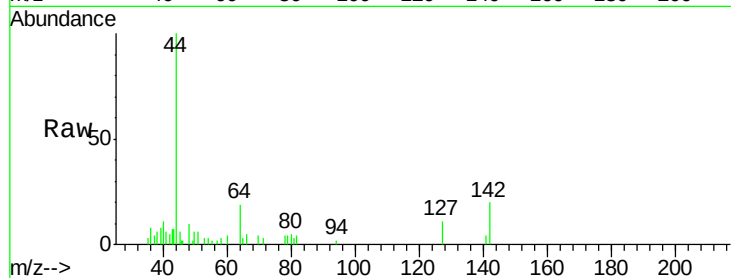




#10
Methvl Iodide
Concen: 0.36 ua/l
RT: 2.51 min Scan# 316
Delta R.T. -0.00 min
Lab File: VX002518.D
Acq: 13 Jun 2018 19:35

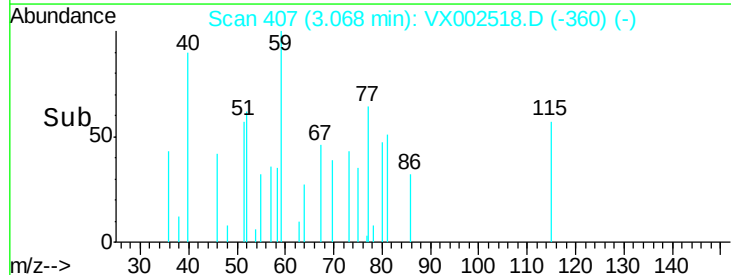
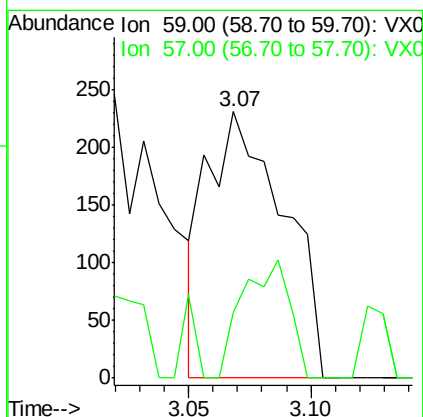
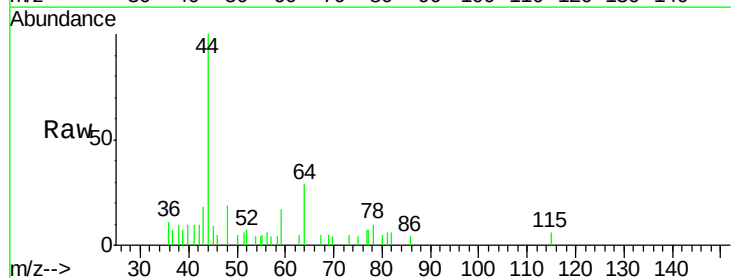
Instrument :
MSVOA_X
ClientSampled :

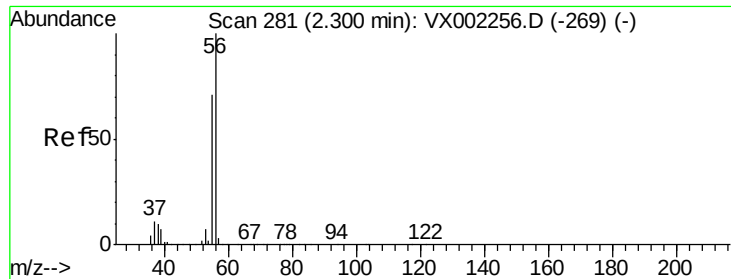
Tot Ion:142 Resp: 1096
Ion Ratio Lower Upper
142 100
127 59.9 36.6 55.0#
141 13.5 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002518.D
Acq: 13 Jun 2018 19:35

Tgt Ion: 59 Resp: 503
Ion Ratio Lower Upper
59 100
57 5.2 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX002518.D

Acq: 13 Jun 2018 19:35

Instrument :

MSVOA_X

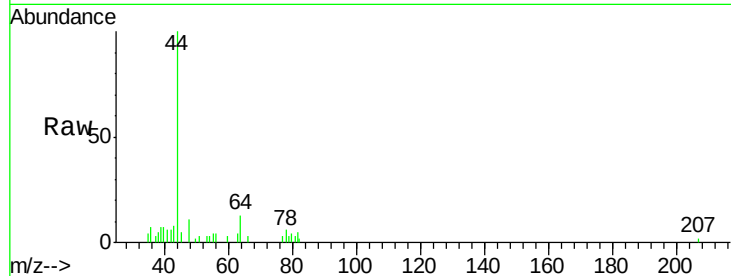
ClientSampleId :

Tot Ion: 56 Resp: 163

Ion Ratio Lower Upper

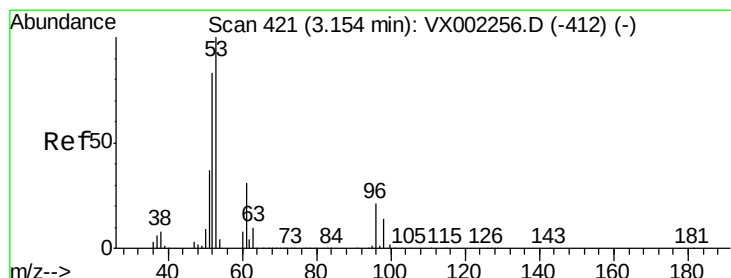
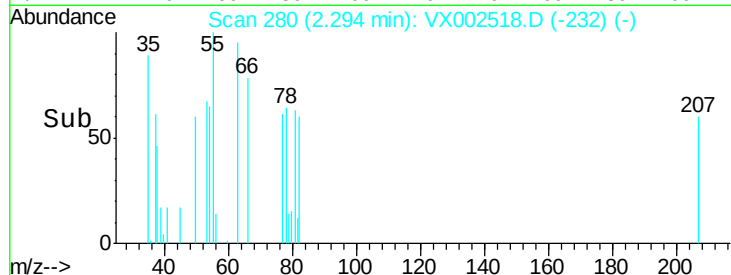
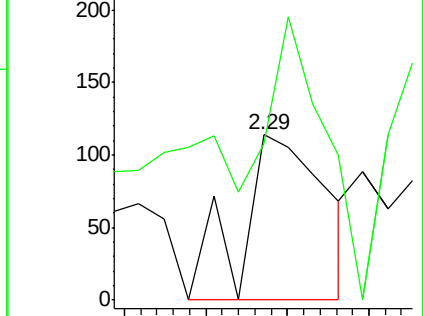
56 100

55 120.9 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: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002518.D

Acq: 13 Jun 2018 19:35

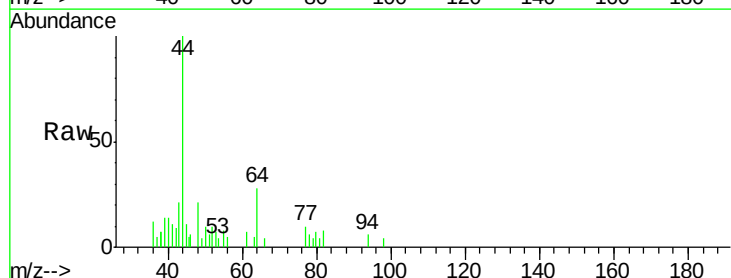
Tgt Ion: 53 Resp: 297

Ion Ratio Lower Upper

53 100

52 38.7 66.7 100.1#

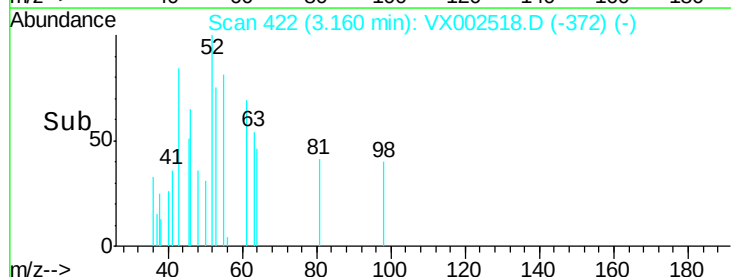
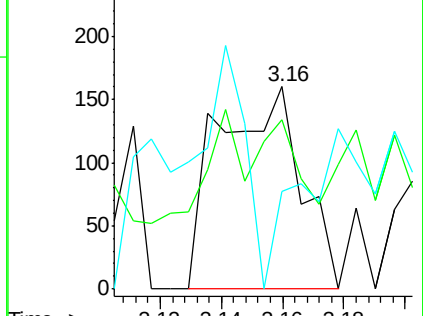
51 66.0 29.9 44.9#

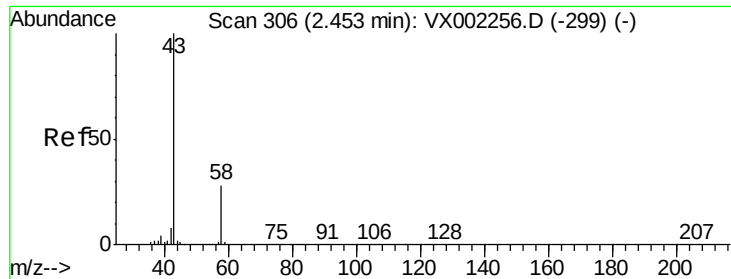


Abundance Ion 53.00 (52.70 to 53.70): VX0

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# 305

Delta R.T. -0.01 min

Lab File: VX002518.D

Acq: 13 Jun 2018 19:35

Instrument :

MSVOA_X

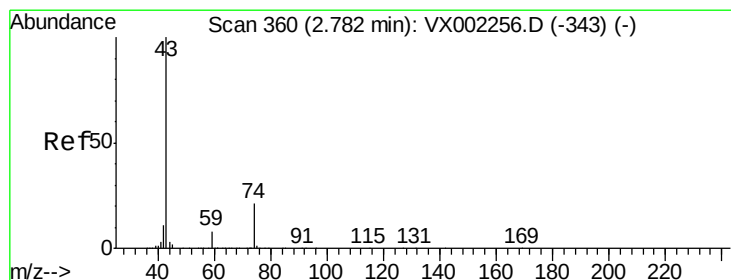
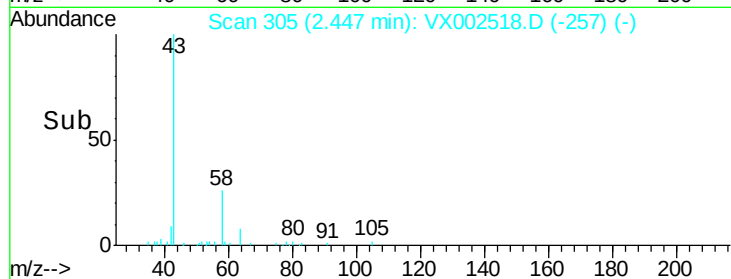
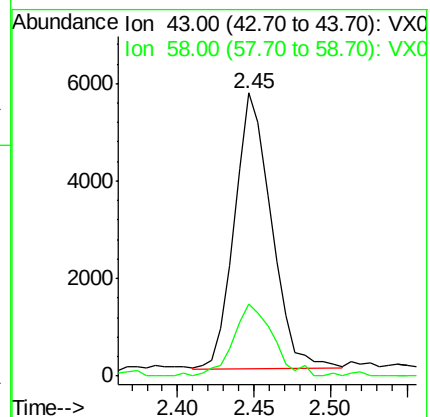
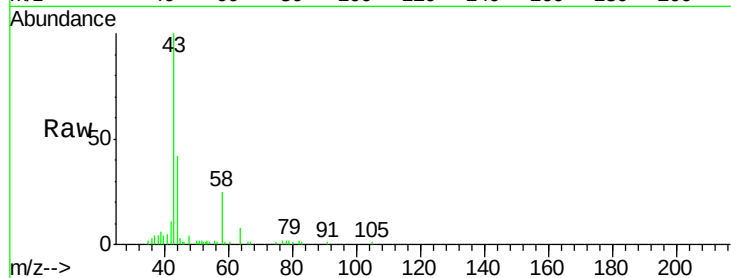
ClientSampleId :

Tot Ion: 43 Resp: 9423

Ion Ratio Lower Upper

43 100

58 26.2 22.1 33.1



#18

Methyl Acetate

Concen: Below Cal

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX002518.D

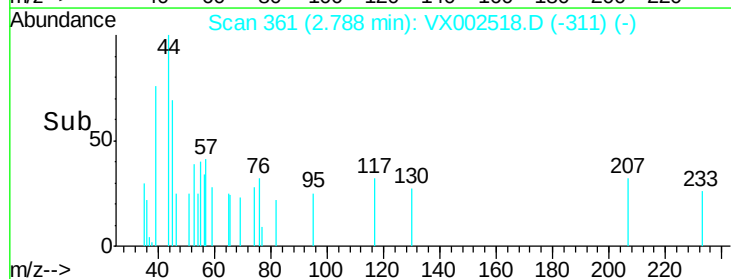
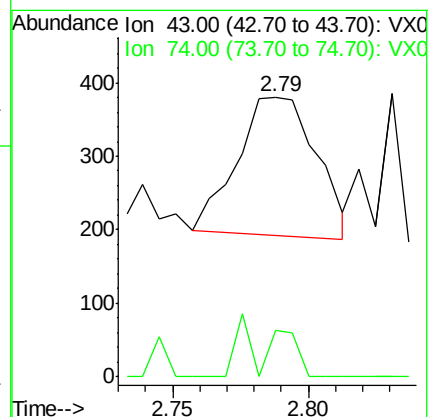
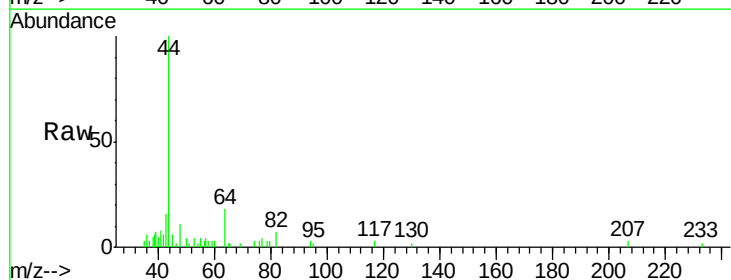
Acq: 13 Jun 2018 19:35

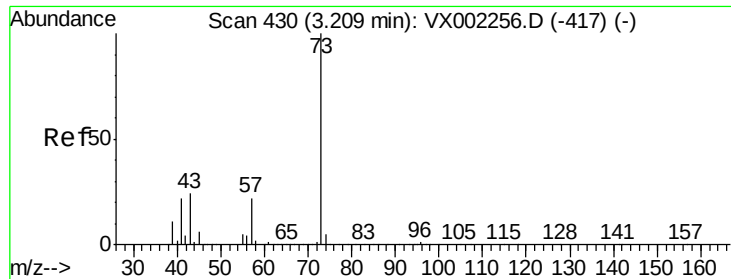
Tgt Ion: 43 Resp: 380

Ion Ratio Lower Upper

43 100

74 8.2 16.7 25.1#



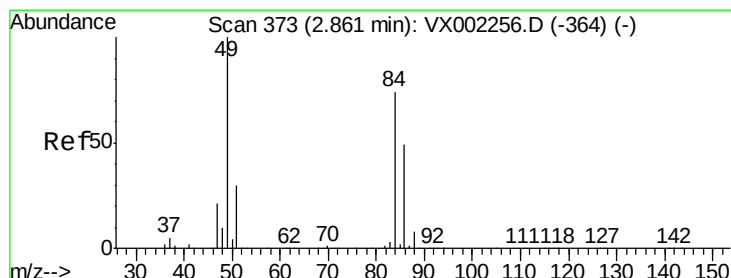
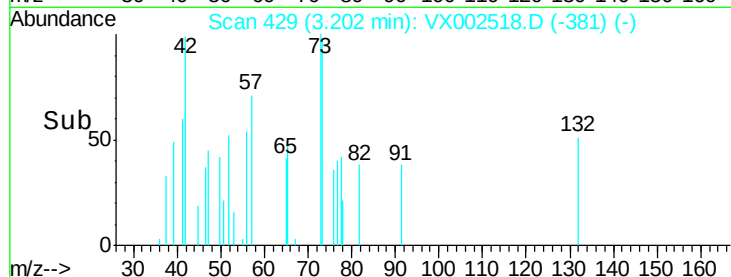
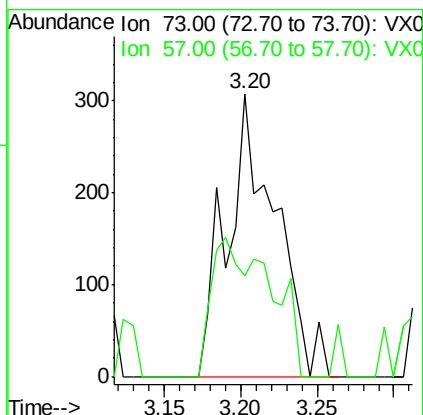
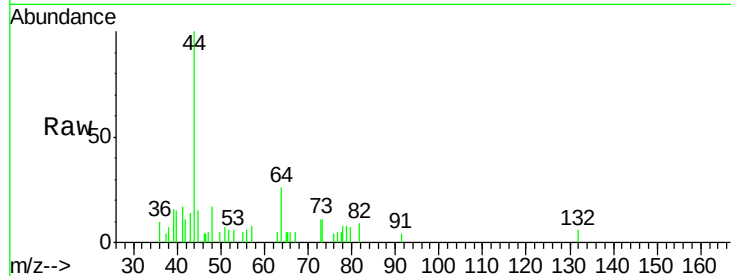


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 429
Delta R.T. -0.01 min
Lab File: VX002518.D
Acq: 13 Jun 2018 19:35

Instrument :
MSVOA_X
ClientSampleId :

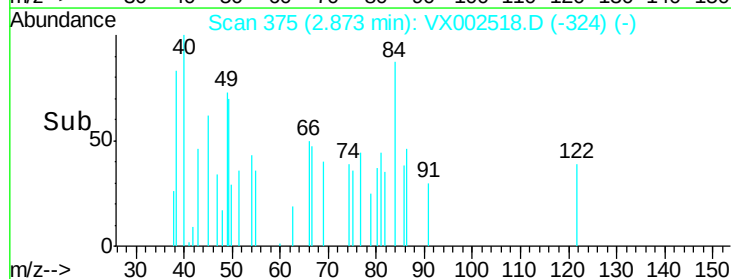
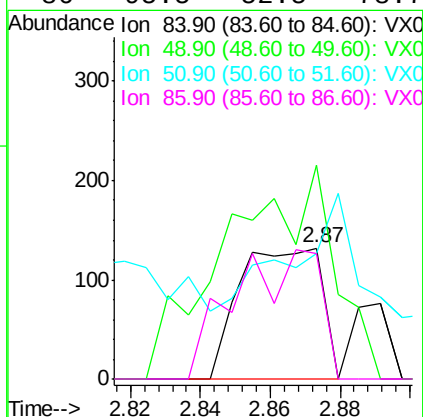
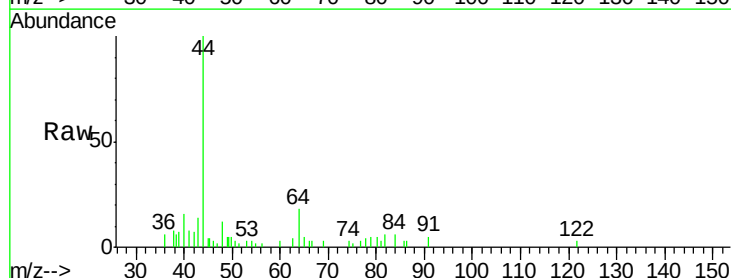
Tot Ion: 73 Resp: 684
Ion Ratio Lower Upper
73 100
57 35.7 17.7 26.5#

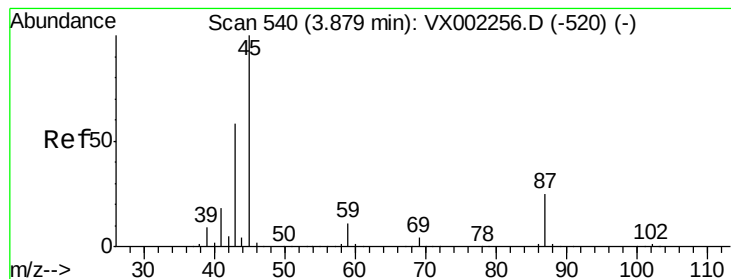


#20

Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 375
Delta R.T. 0.01 min
Lab File: VX002518.D
Acq: 13 Jun 2018 19:35

Tgt Ion: 84 Resp: 215
Ion Ratio Lower Upper
84 100
49 113.6 107.8 161.6
51 17.4 32.8 49.2#
86 95.5 52.5 78.7#





#22

Diisopropyl ether

Concen: Below Cal

RT: 3.88 min Scan# 540

Delta R.T. 0.00 min

Lab File: VX002518.D

Acq: 13 Jun 2018 19:35

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 45 Resp: 42

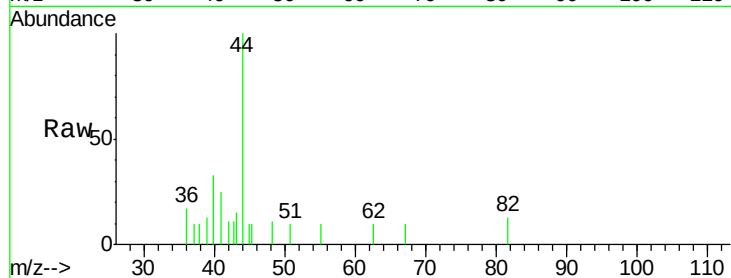
Ion Ratio Lower Upper

45 100

43 71.1 46.8 70.2#

87 0.0 20.2 30.4#

59 0.0 8.7 13.1#

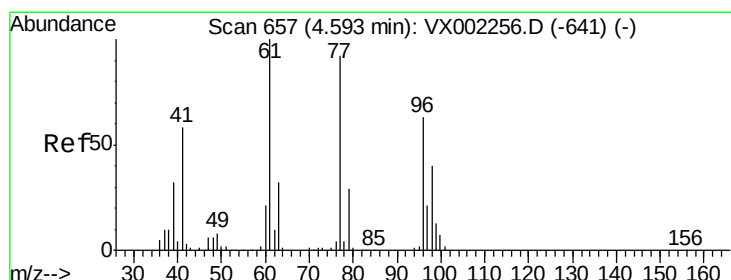
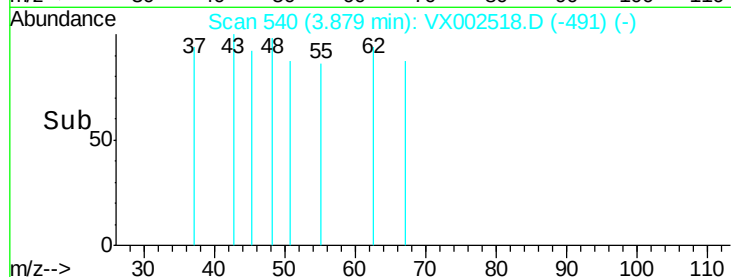
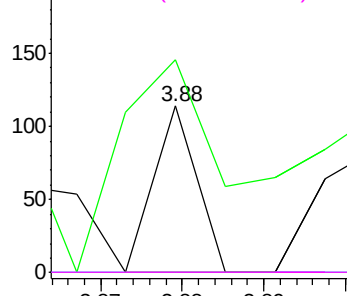


Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0



#26

2,2-Dichloropropane

Concen: 0.26 ug/l

RT: 4.78 min Scan# 688

Delta R.T. 0.19 min

Lab File: VX002518.D

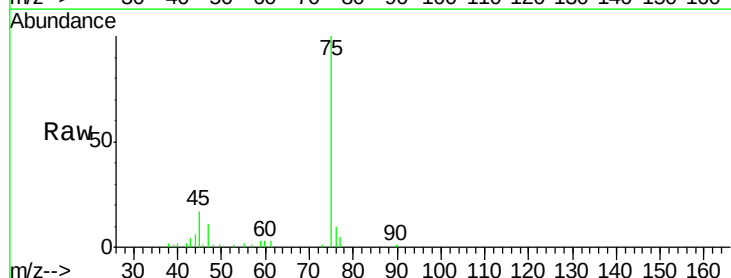
Acq: 13 Jun 2018 19:35

Tgt Ion: 77 Resp: 914

Ion Ratio Lower Upper

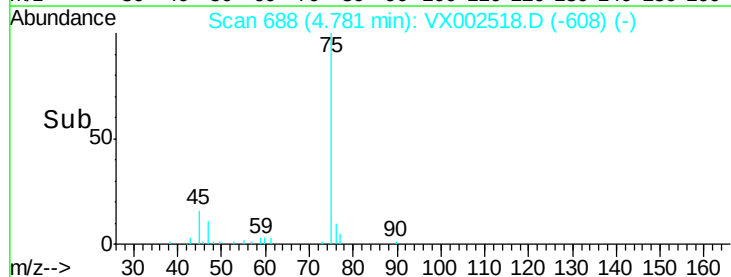
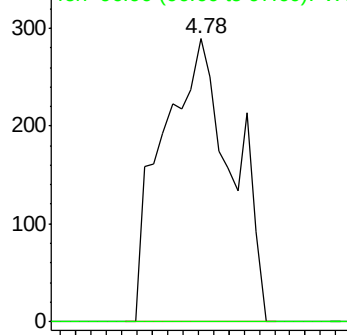
77 100

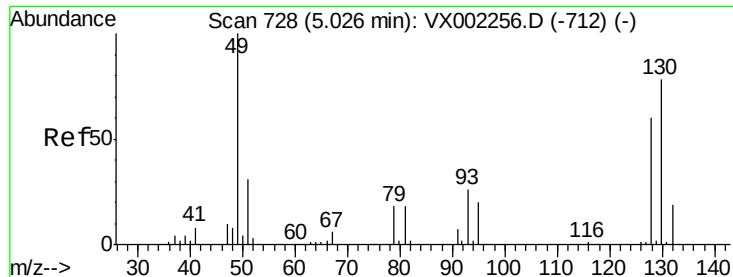
97 0.0 11.2 33.5#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 726

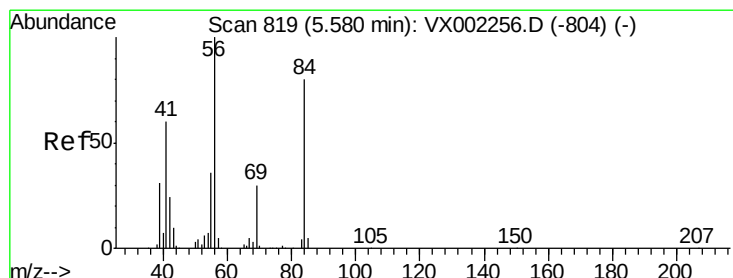
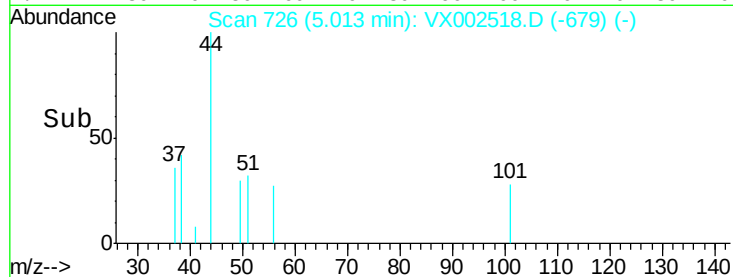
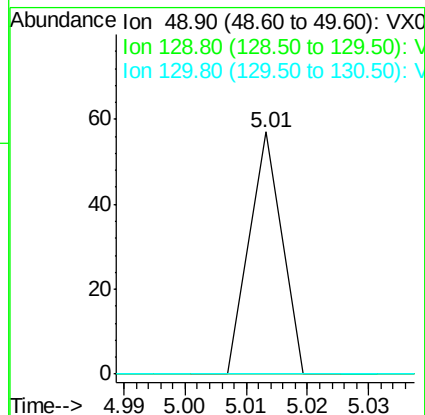
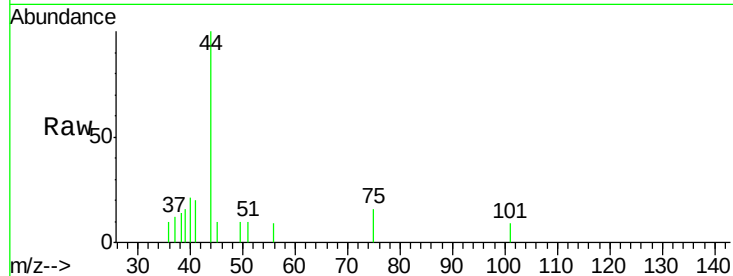
Delta R.T. -0.01 min

Lab File: VX002518.D

Acq: 13 Jun 2018 19:35

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 21
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#31

Cyclohexane

Concen: 1.36 ug/l

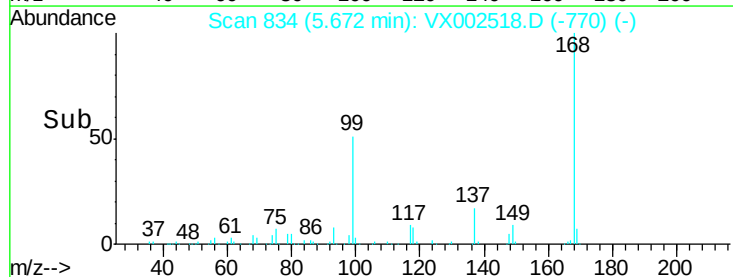
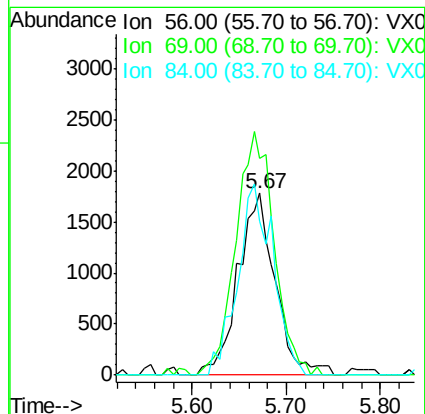
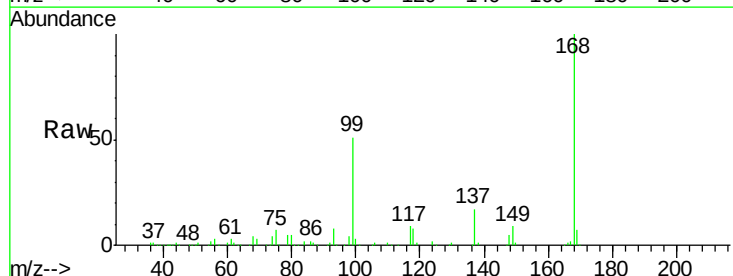
RT: 5.67 min Scan# 834

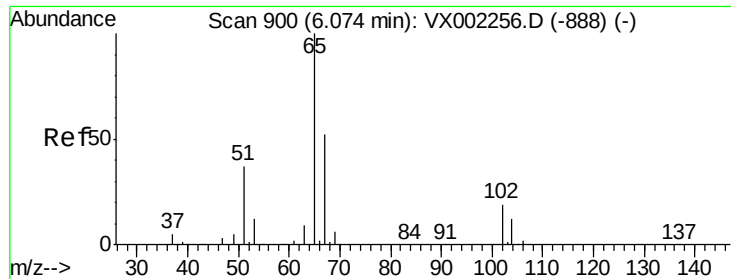
Delta R.T. 0.09 min

Lab File: VX002518.D

Acq: 13 Jun 2018 19:35

Tgt Ion: 56 Resp: 4895
Ion Ratio Lower Upper
56 100
69 119.5 23.7 35.5#
84 84.4 64.1 96.1

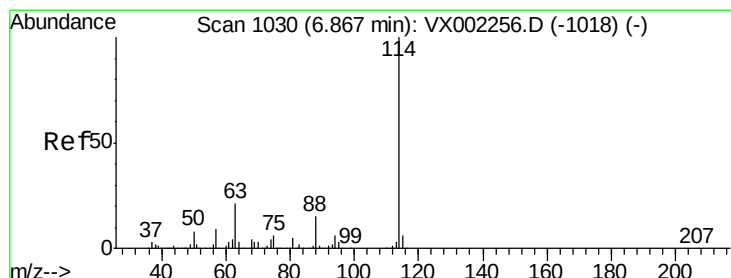
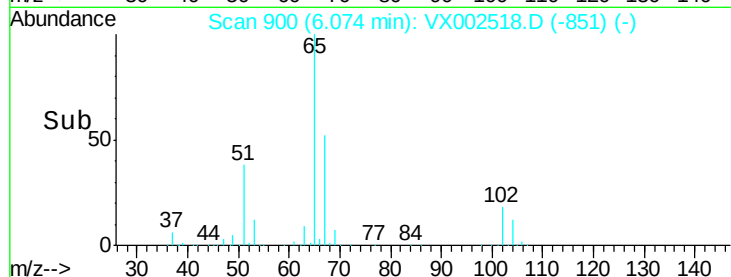
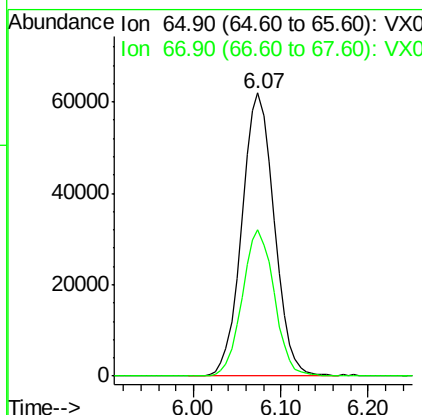
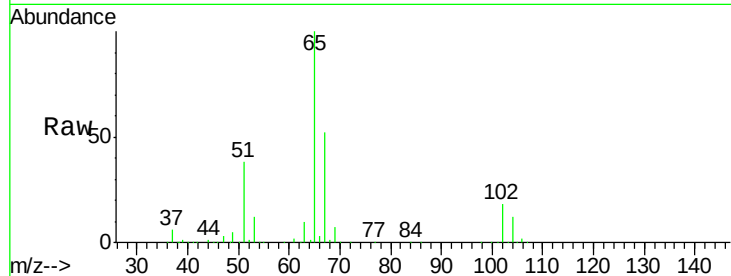




#33
 1,2-Dichloroethane-d4
 Concen: 56.54 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002518.D
 Acq: 13 Jun 2018 19:35

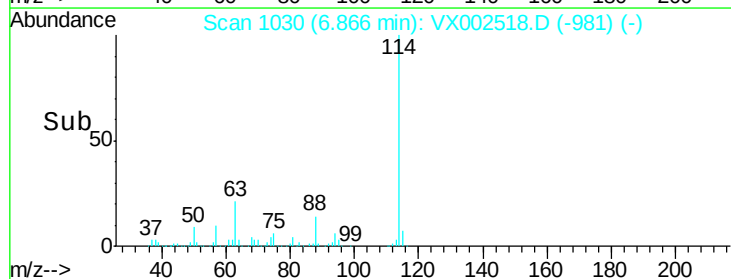
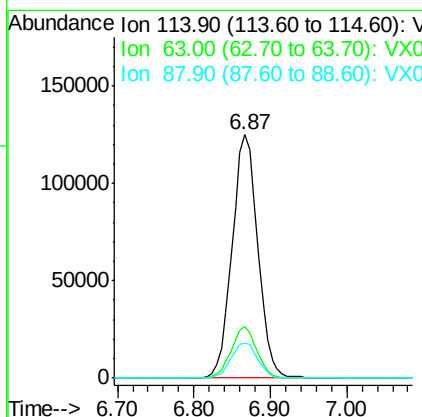
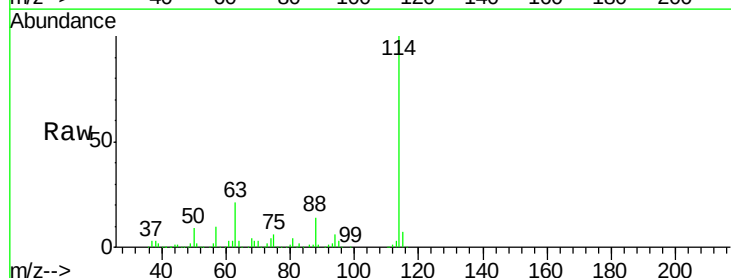
Instrument :
 MSVOA_X
 ClientSampleId :

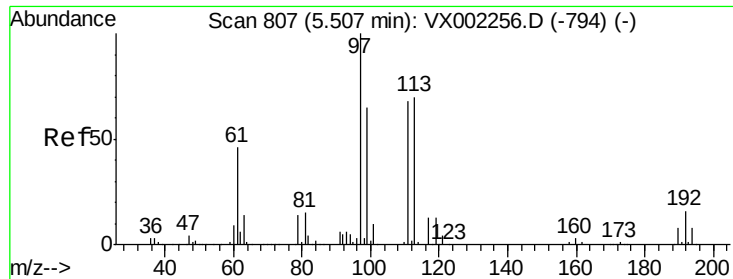
Tot Ion: 65 Resp: 159618
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002518.D
 Acq: 13 Jun 2018 19:35

Tgt Ion: 114 Resp: 291754
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 41.4
 88 14.3 0.0 30.0





#35

Dibromofluoromethane

Concen: 51.76 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002518.D

Acq: 13 Jun 2018 19:35

Instrument :

MSVOA_X

ClientSampled :

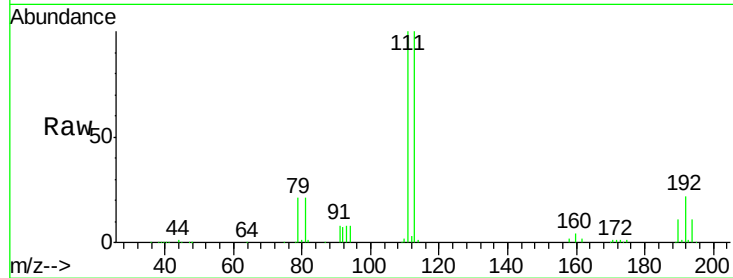
Tot Ion:113 Resp: 118755

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

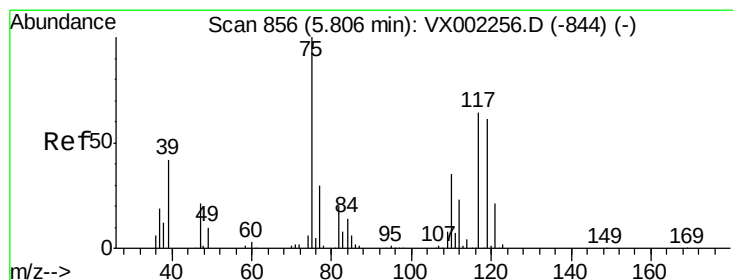
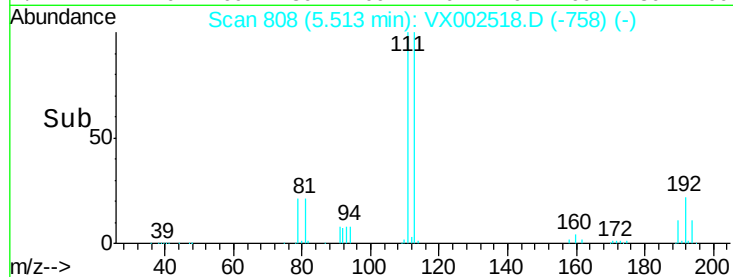
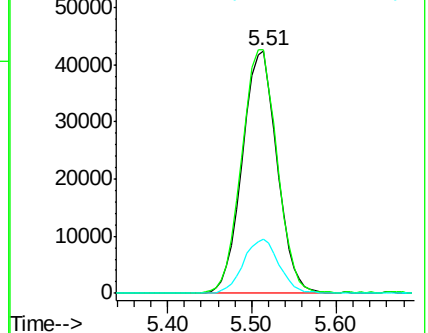
192 22.7 19.1 28.7



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: 4.86 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002518.D

Acq: 13 Jun 2018 19:35

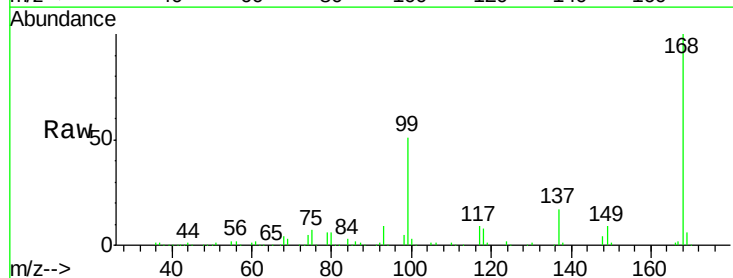
Tgt Ion: 75 Resp: 14905

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.4#

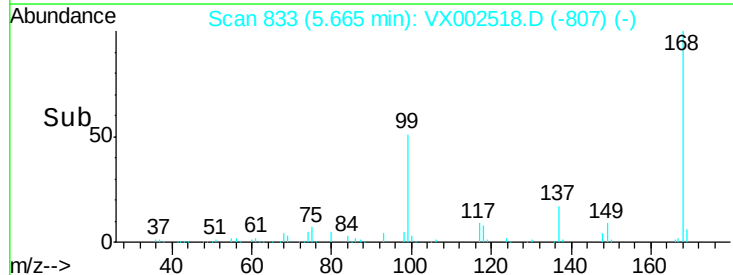
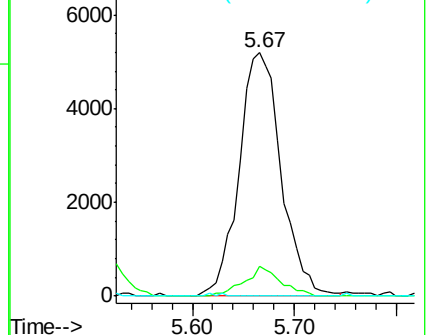
77 0.0 24.3 36.5#

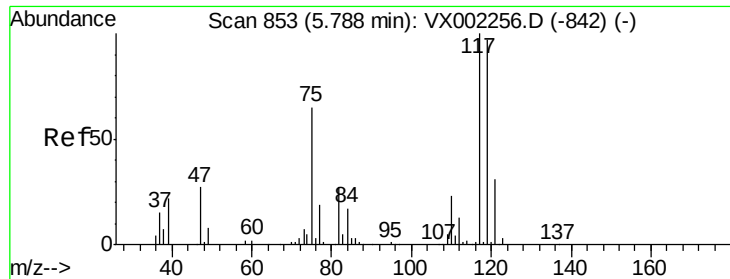


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.93 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002518.D

Acq: 13 Jun 2018 19:35

Instrument :

MSVOA_X

ClientSampled :

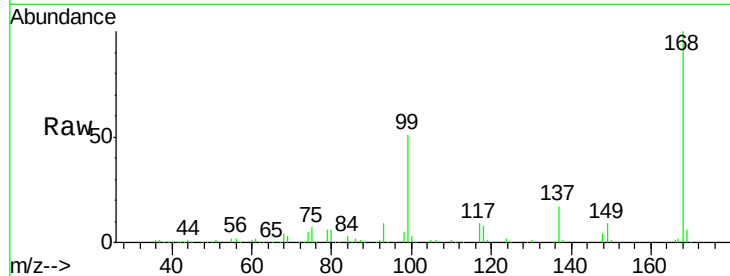
Tot Ion:117 Resp: 19013

Ion Ratio Lower Upper

117 100

119 6.5 77.4 116.0#

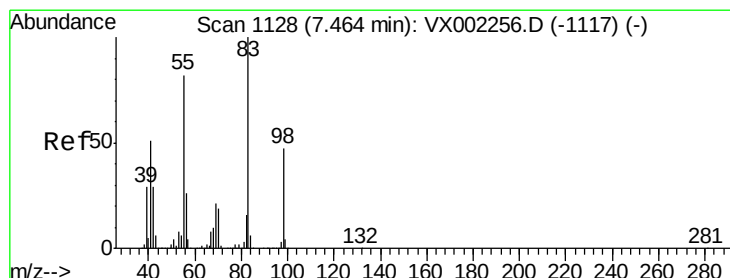
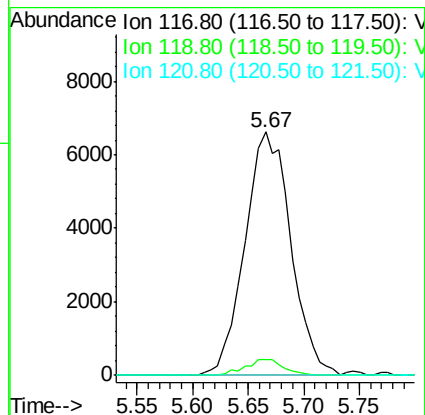
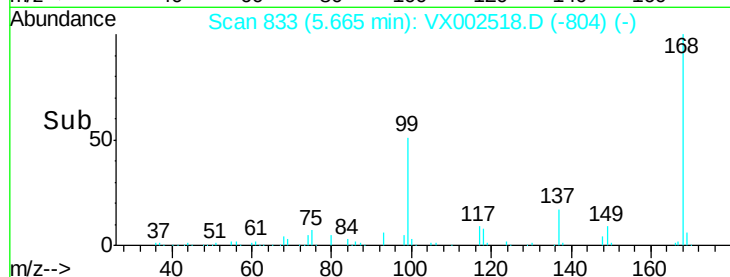
121 0.0 24.4 36.6#



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: 0.27 ug/l

RT: 7.46 min Scan# 1127

Delta R.T. -0.01 min

Lab File: VX002518.D

Acq: 13 Jun 2018 19:35

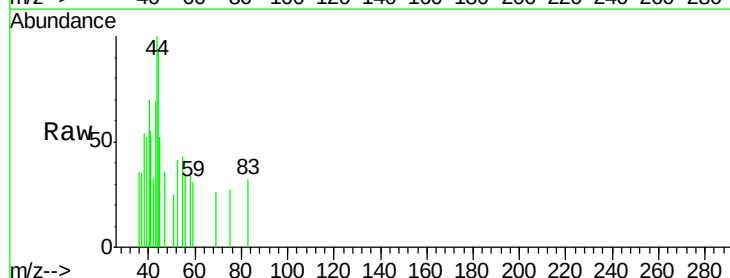
Tgt Ion: 83 Resp: 46

Ion Ratio Lower Upper

83 100

55 133.8 65.4 98.0#

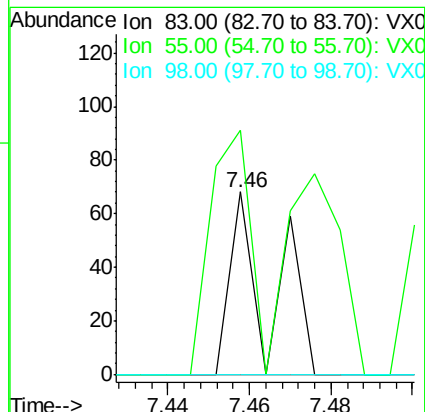
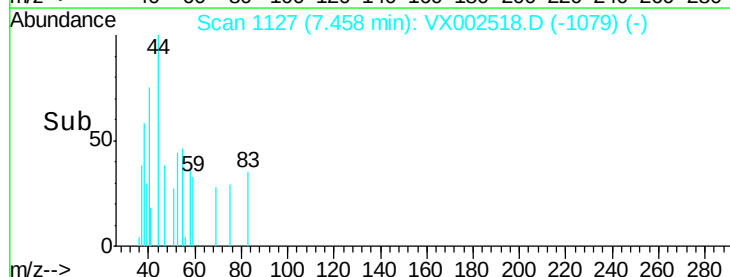
98 0.0 37.4 56.0#

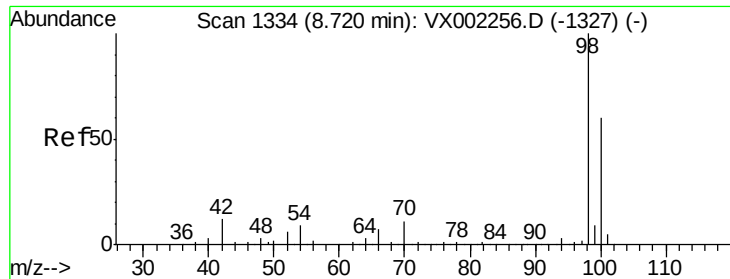


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

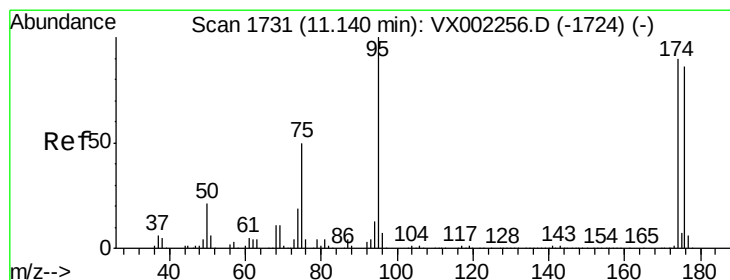
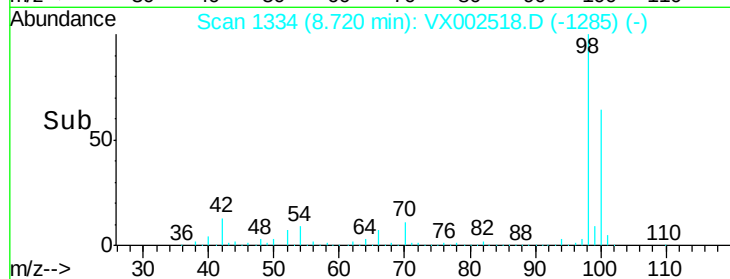
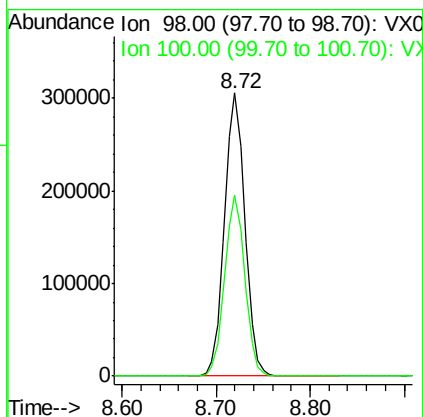
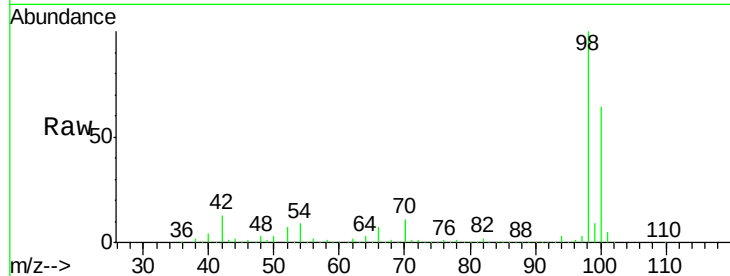




#50
Toluene-d8
Concen: 52.59 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002518.D
Acq: 13 Jun 2018 19:35

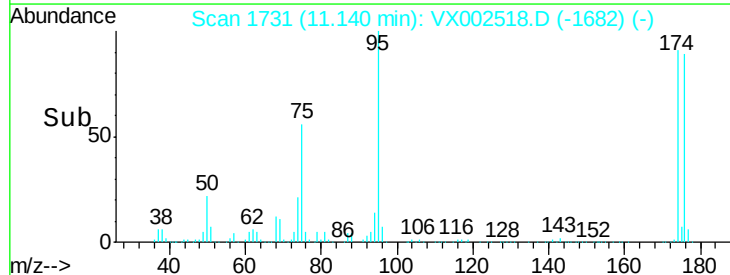
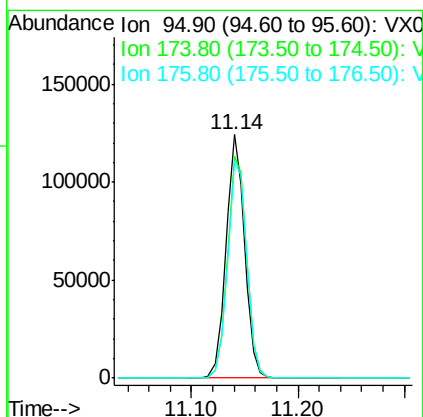
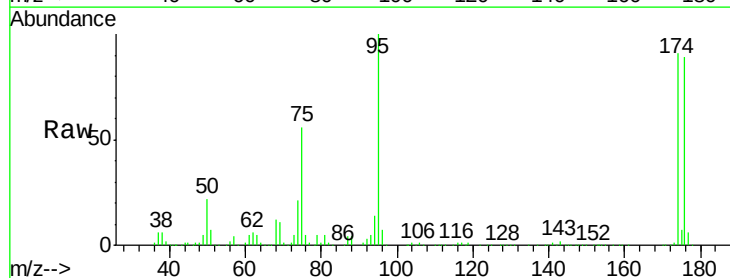
Instrument :
MSVOA_X
ClientSampleId :

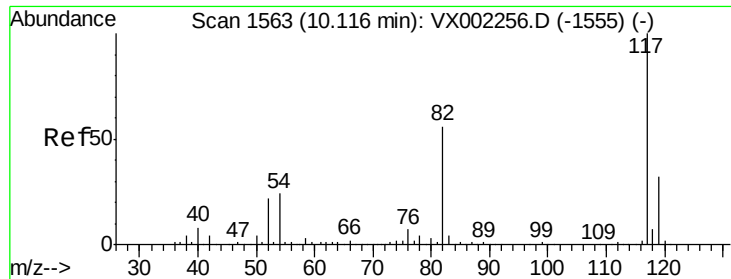
Tot Ion: 98 Resp: 462512
Ion Ratio Lower Upper
98 100
100 63.1 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 44.70 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002518.D
Acq: 13 Jun 2018 19:35

Tgt Ion: 95 Resp: 151595
Ion Ratio Lower Upper
95 100
174 94.6 0.0 187.4
176 92.5 0.0 181.0

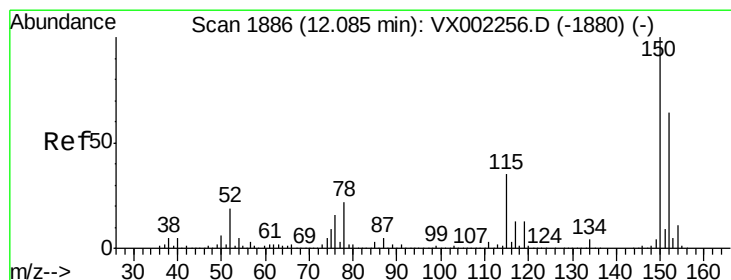
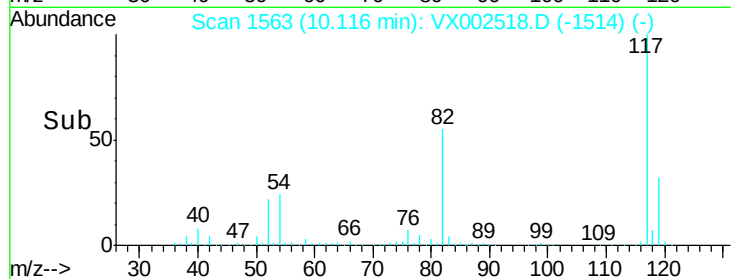
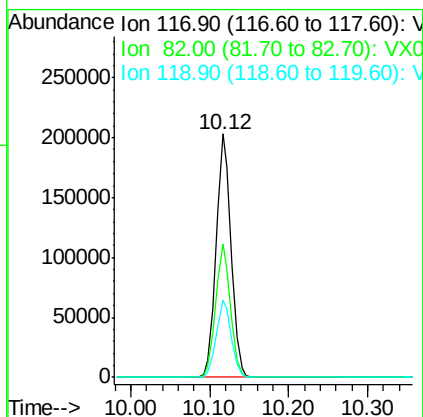
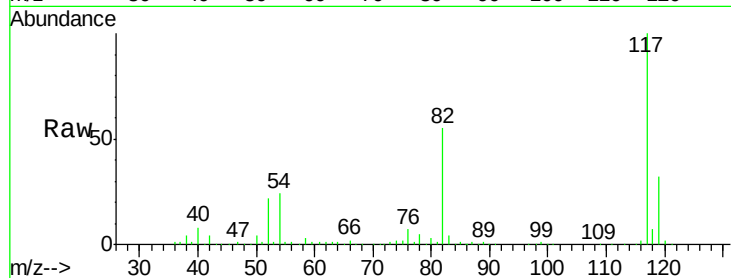




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002518.D
Acq: 13 Jun 2018 19:35

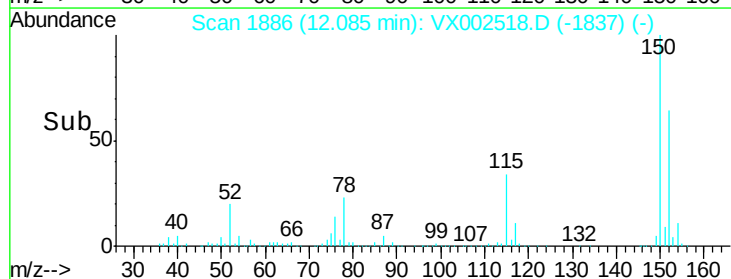
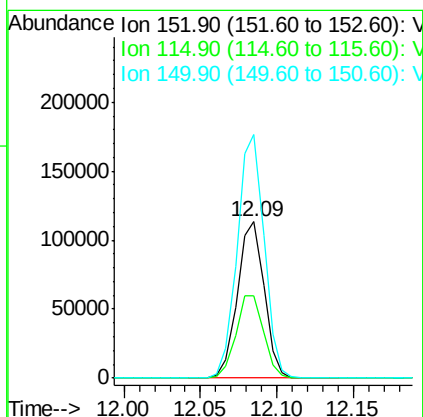
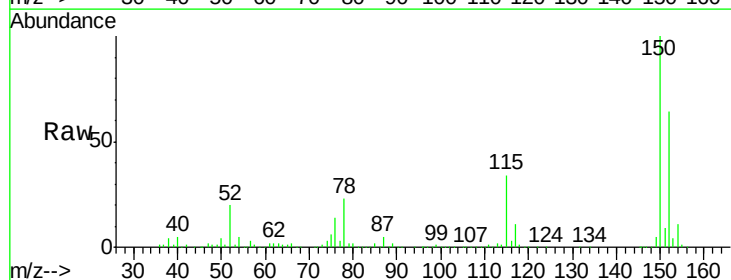
Instrument :
MSVOA_X
ClientSampleId :

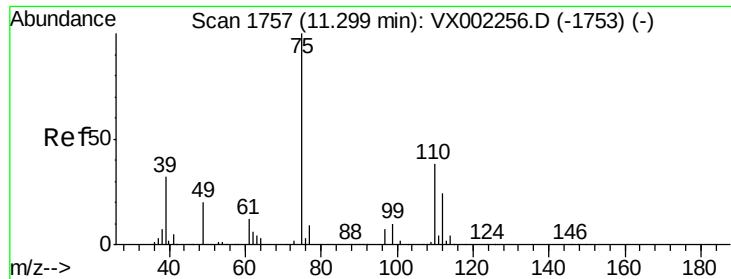
Tot Ion:117 Resp: 267909
Ion Ratio Lower Upper
117 100
82 55.0 45.0 67.4
119 31.9 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002518.D
Acq: 13 Jun 2018 19:35

Tgt Ion:152 Resp: 137132
Ion Ratio Lower Upper
152 100
115 54.9 40.1 120.2
150 157.1 0.0 347.2

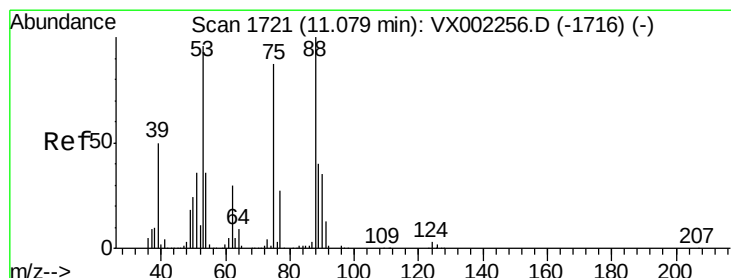
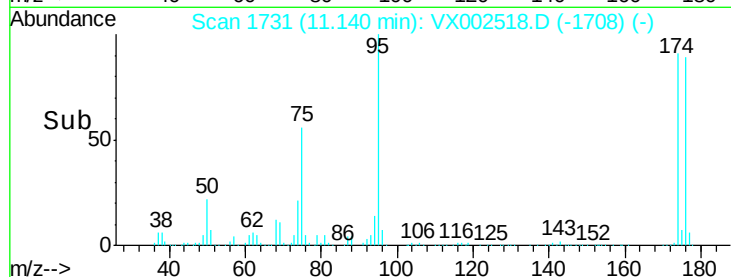
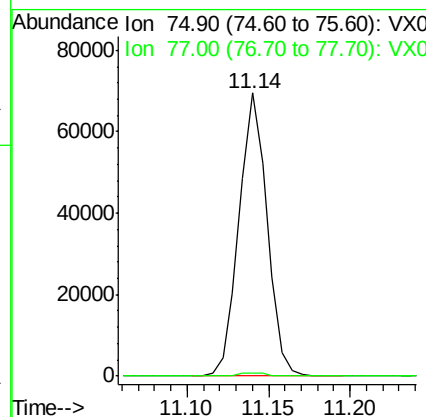
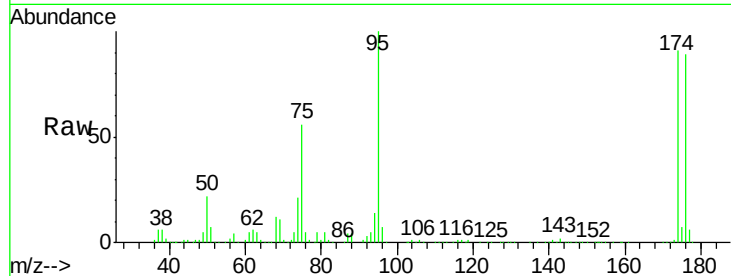




#76
 1,2,3-Trichloropropane
 Concen: 27.74 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002518.D
 Acq: 13 Jun 2018 19:35

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 83456
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 97.22 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002518.D
 Acq: 13 Jun 2018 19:35

Tgt Ion: 75 Resp: 83456
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#

