

Data Path : Y:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060418\
 Data File : VX002264.D
 Acq On : 04 Jun 2018 17:01
 Operator : JC/MD
 Sample : J3282-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 05 04:59:49 2018
 Quant Method : Y:\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	264976	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	380621	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	343246	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	188300	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	181533	47.75	ug/l	0.00
Spiked Amount			Recovery	=	95.50%	
35) Dibromofluoromethane	5.51	113	135031	45.11	ug/l	0.00
Spiked Amount			Recovery	=	90.22%	
50) Toluene-d8	8.72	98	540267	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
62) 4-Bromofluorobenzene	11.14	95	187552	42.39	ug/l	0.00
Spiked Amount			Recovery	=	84.78%	

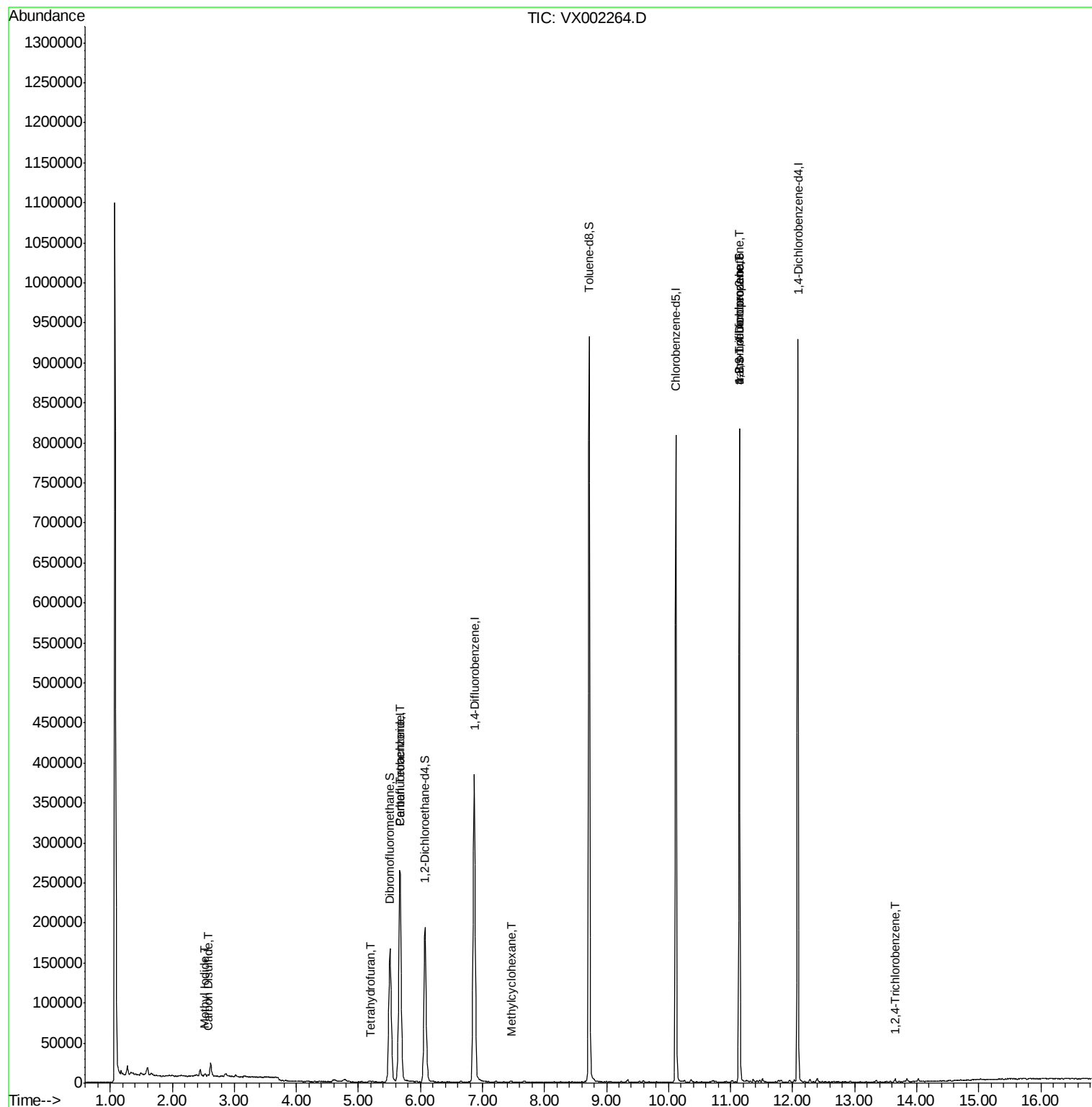
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	998	Below Cal	#	66
5) Bromomethane	1.65	94	2206	Below Cal	#	71
8) Diethyl Ether	2.21	74	19	Below Cal		94
10) Methyl Iodide	2.52	142	3197	0.80	ug/l	# 92
11) Tert butyl alcohol	3.04	59	1495	Below Cal	#	73
13) Acrolein	2.30	56	453	Below Cal		93
15) Acrylonitrile	3.16	53	675	Below Cal	#	60
16) Acetone	2.45	43	9104	Below Cal		95
17) Carbon Disulfide	2.57	76	2411	0.32	ug/l	# 89
18) Methyl Acetate	2.78	43	285	Below Cal		94
19) Methyl tert-butyl Ether	3.18	73	90	Below Cal	#	54
20) Methylene Chloride	2.86	84	1851	Below Cal	#	94
22) Diisopropyl ether	3.90	45	175	Below Cal	#	35
28) Bromochloromethane	5.03	49	114	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	551	0.33	ug/l	# 42
38) Carbon Tetrachloride	5.67	117	24653	5.89	ug/l	# 16
39) Methylcyclohexane	7.47	83	519	0.37	ug/l	# 42
76) 1,2,3-Trichloropropane	11.14	75	101018	24.45	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	101018	85.70	ug/l	# 6
93) 1,2,4-Trichlorobenzene	13.65	180	1034	0.22	ug/l	96

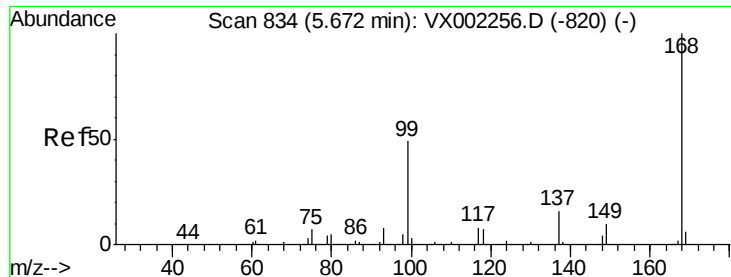
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX002264.D

Acq: 04 Jun 2018 17:01

Instrument :

MSVOA_X

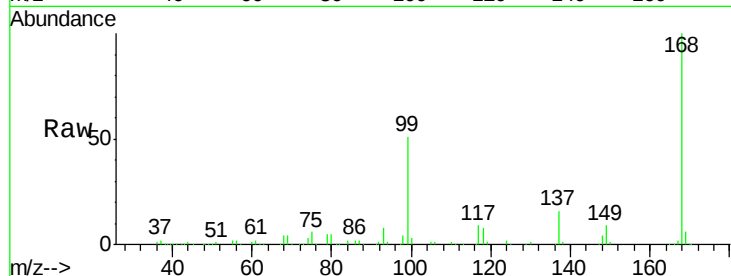
ClientSampleId :

Tot Ion:168 Resp: 264976

Ion Ratio Lower Upper

168 100

99 51.4 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

100000

80000

60000

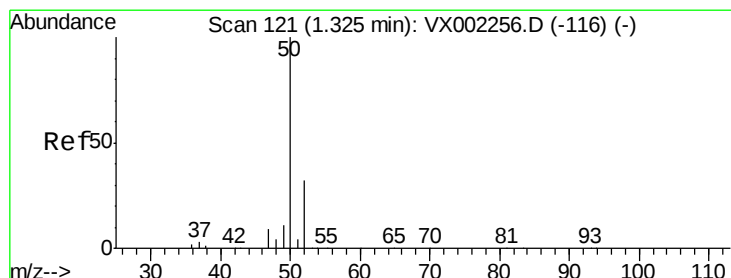
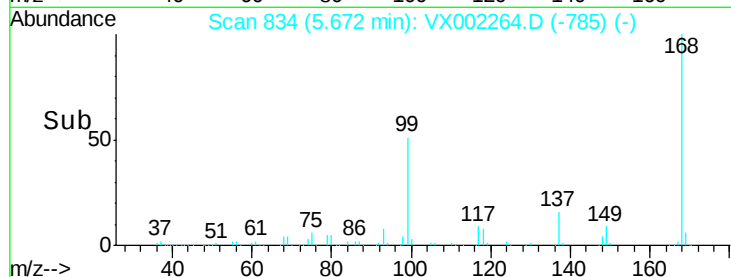
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002264.D

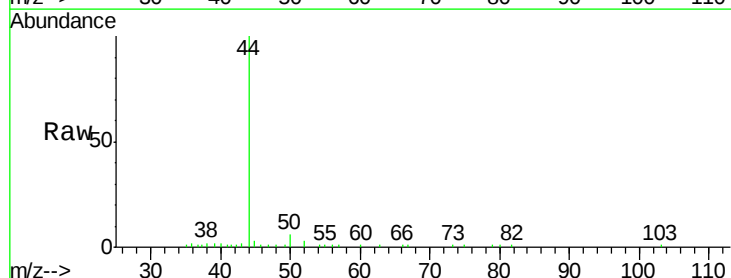
Acq: 04 Jun 2018 17:01

Tgt Ion: 50 Resp: 998

Ion Ratio Lower Upper

50 100

52 51.1 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

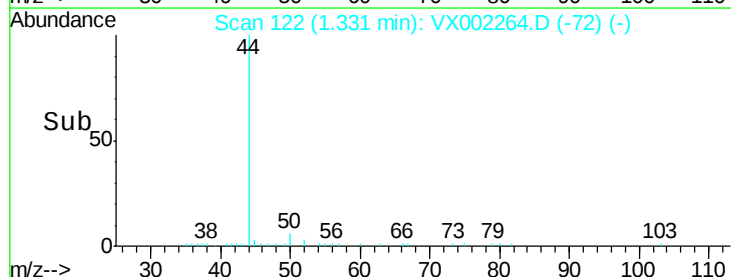
400

200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002264.D

Acq: 04 Jun 2018 17:01

Instrument :

MSVOA_X

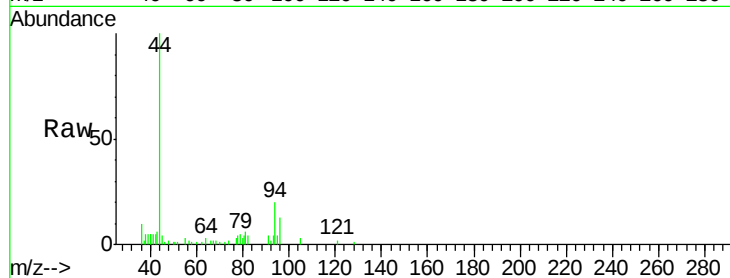
ClientSampleId :

Tot Ion: 94 Resp: 2206

Ion Ratio Lower Upper

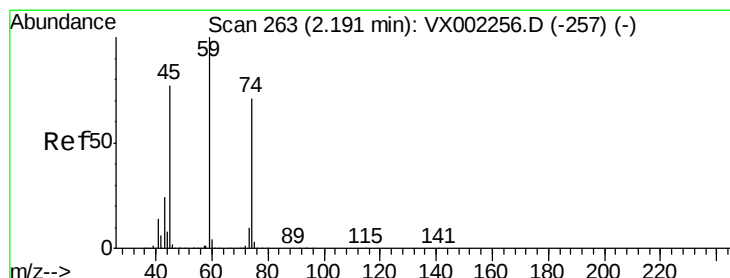
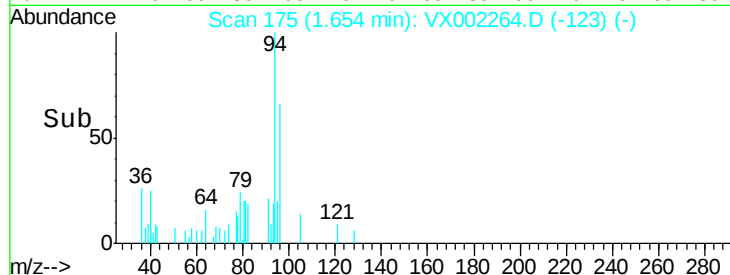
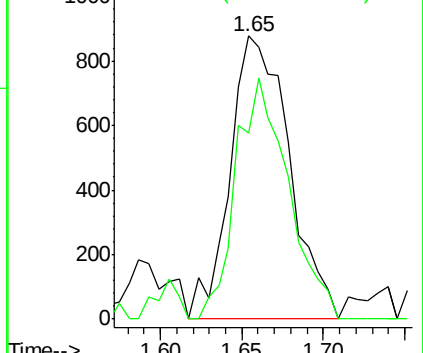
94 100

96 65.8 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# 267

Delta R.T. 0.02 min

Lab File: VX002264.D

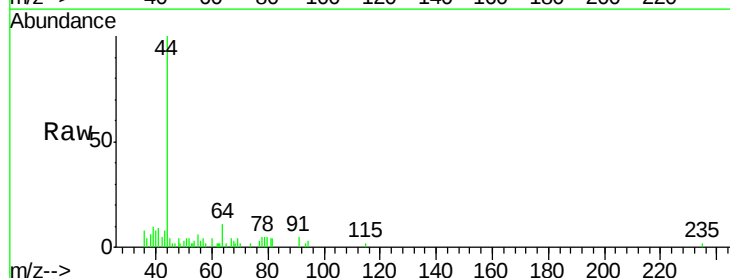
Acq: 04 Jun 2018 17:01

Tgt Ion: 74 Resp: 19

Ion Ratio Lower Upper

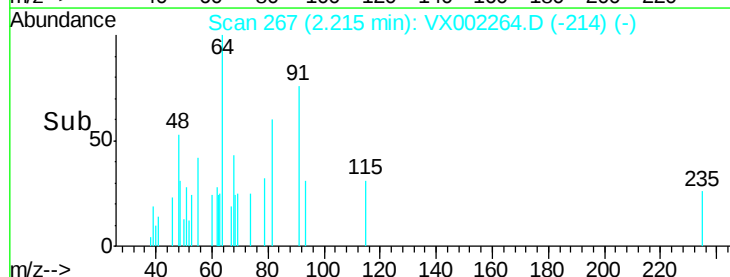
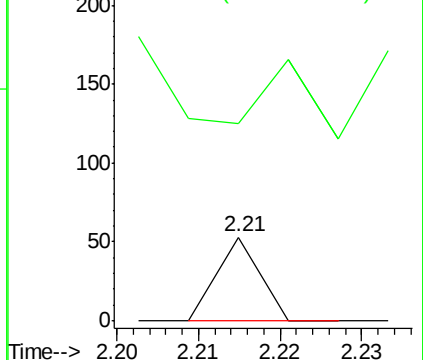
74 100

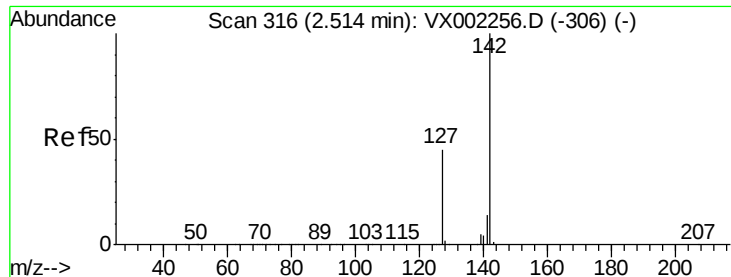
45 100.0 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

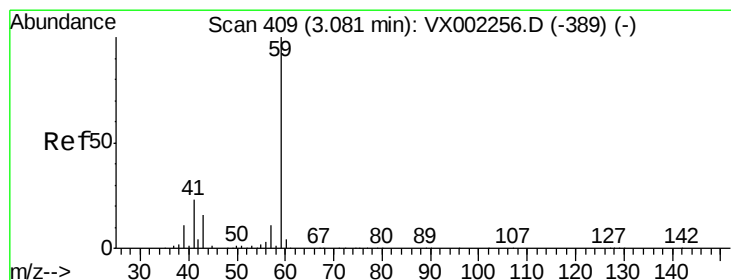
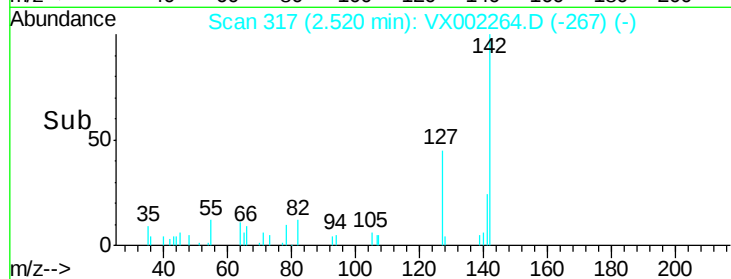
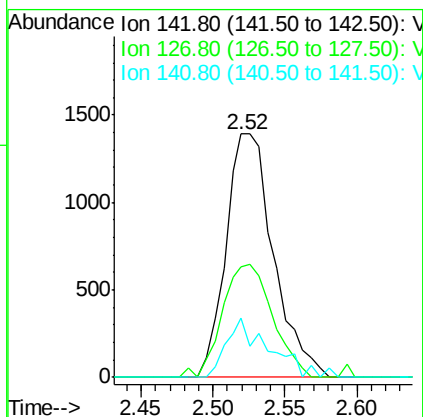
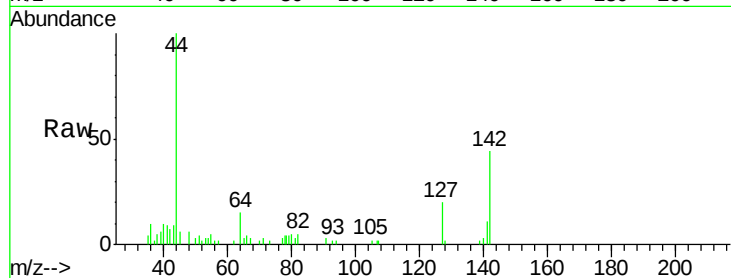




#10
Methvl Iodide
Concen: 0.80 ua/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002264.D
Acq: 04 Jun 2018 17:01

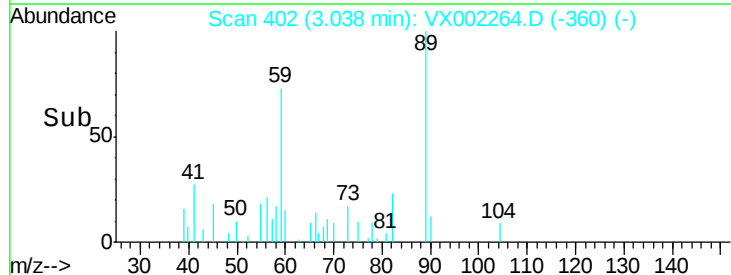
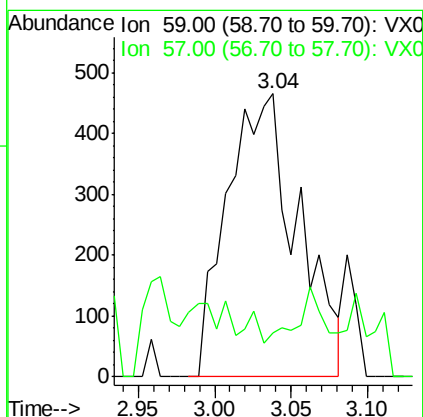
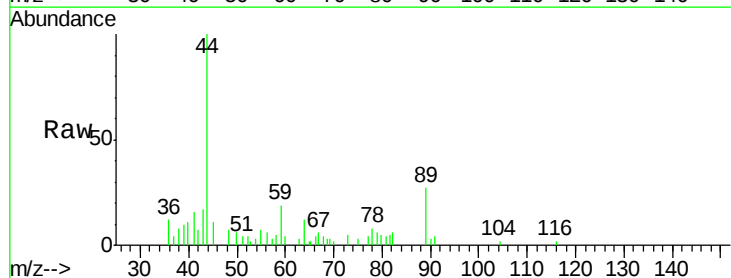
Instrument :
MSVOA_X
ClientSampleId :

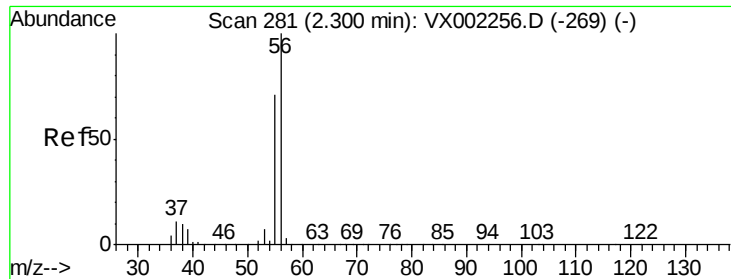
Tot Ion:142 Resp: 3197
Ion Ratio Lower Upper
142 100
127 48.9 36.6 55.0
141 22.1 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.04 min Scan# 402
Delta R.T. -0.04 min
Lab File: VX002264.D
Acq: 04 Jun 2018 17:01

Tgt Ion: 59 Resp: 1495
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX002264.D

Acq: 04 Jun 2018 17:01

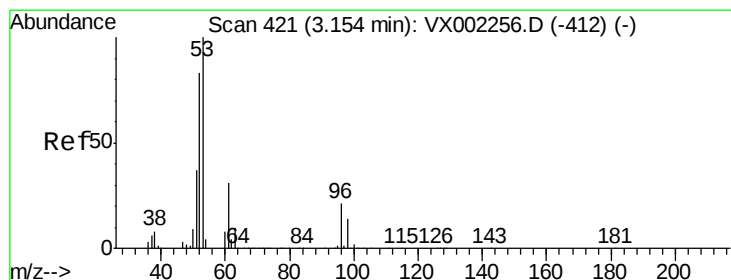
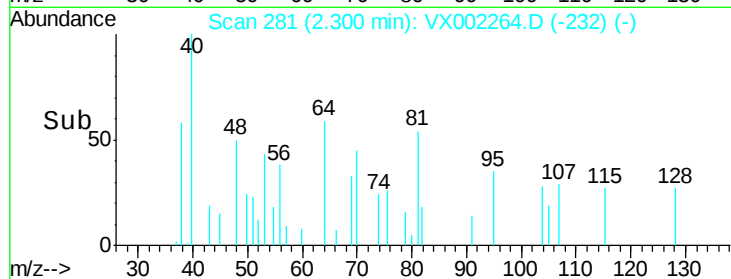
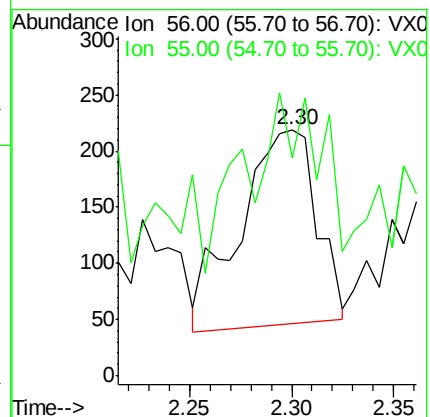
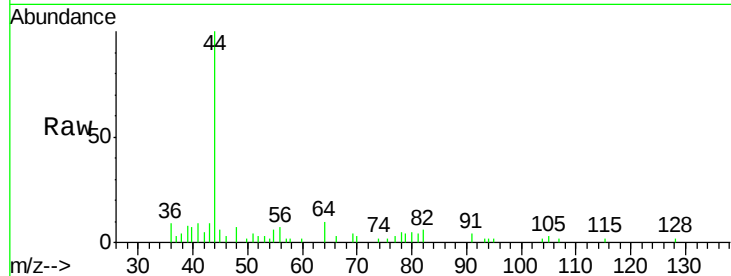
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 453

Ion Ratio Lower Upper

56 100

55 65.6 57.0 85.4



#15

Acrylonitrile

Concen: Below Cal

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002264.D

Acq: 04 Jun 2018 17:01

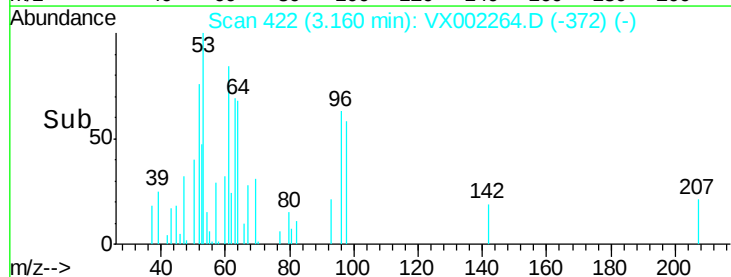
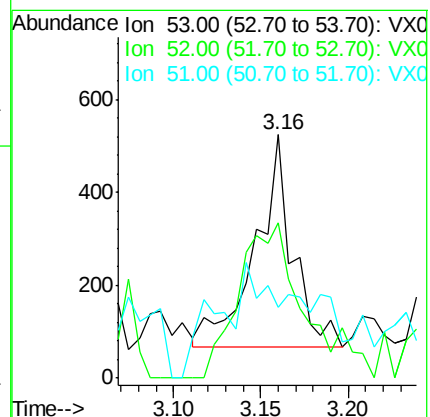
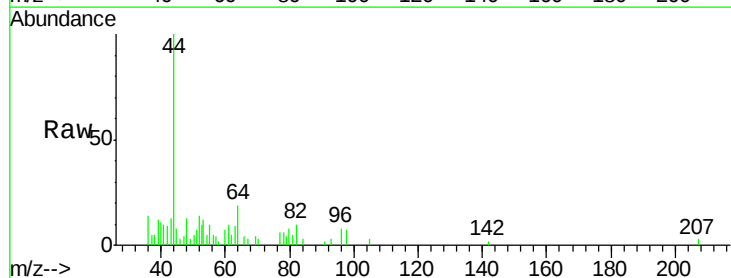
Tgt Ion: 53 Resp: 675

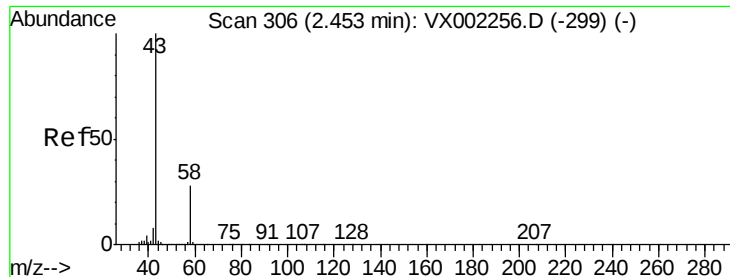
Ion Ratio Lower Upper

53 100

52 129.2 66.7 100.1#

51 46.5 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002264.D

Acq: 04 Jun 2018 17:01

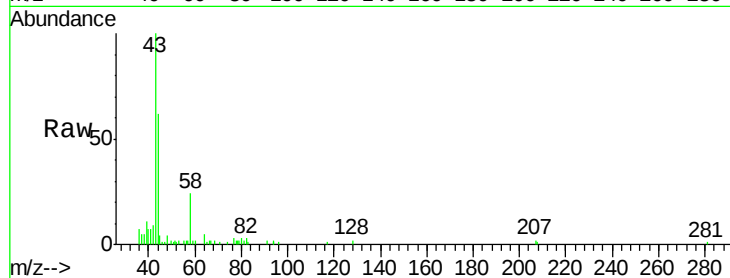
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 9104

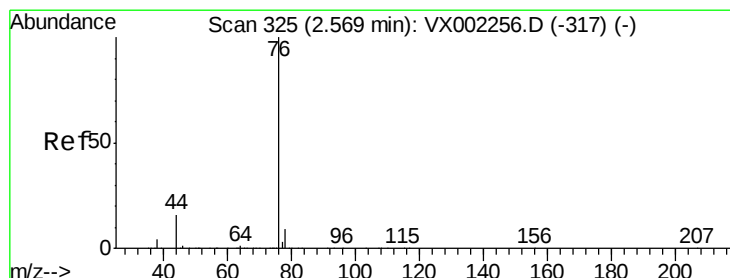
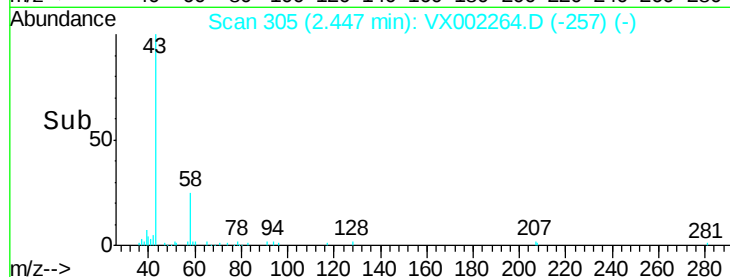
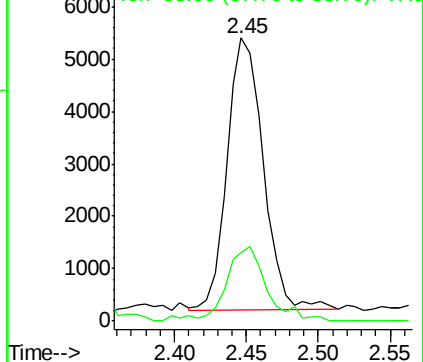
Ion Ratio Lower Upper

43 100

58 25.0 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.32 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002264.D

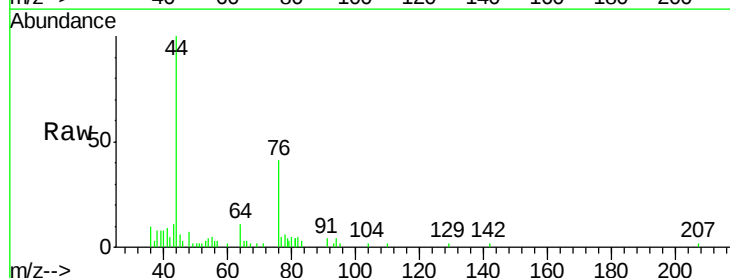
Acq: 04 Jun 2018 17:01

Tgt Ion: 76 Resp: 2411

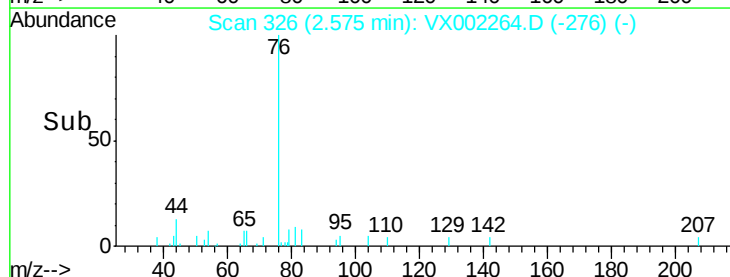
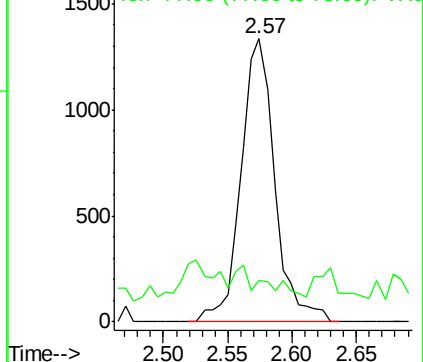
Ion Ratio Lower Upper

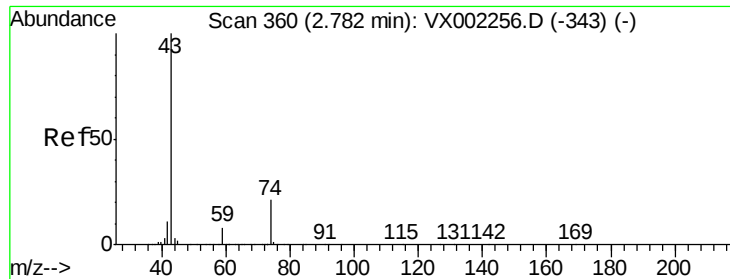
76 100

78 4.7 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0
Ion 77.90 (77.60 to 78.60): VX0

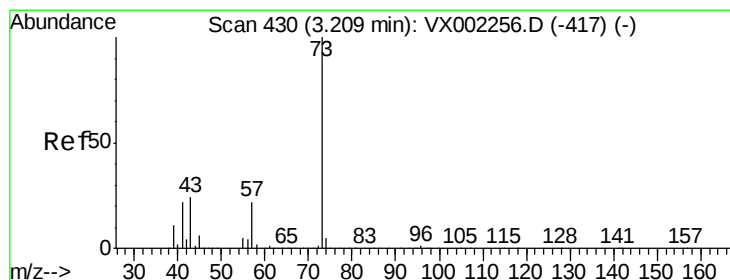
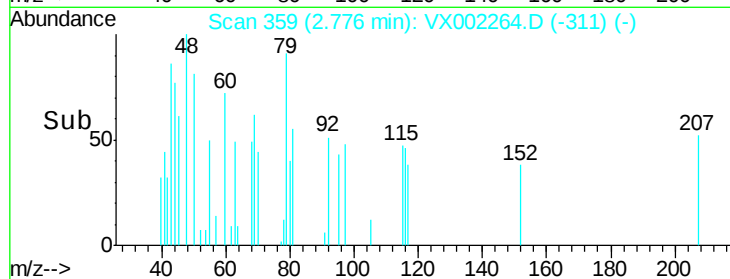
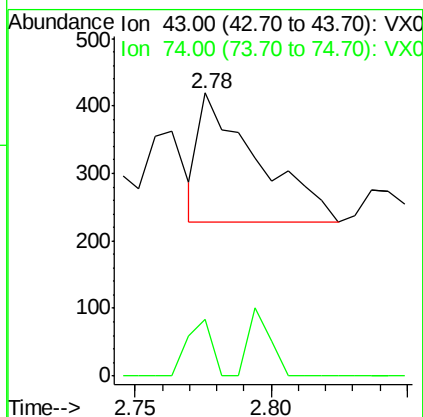
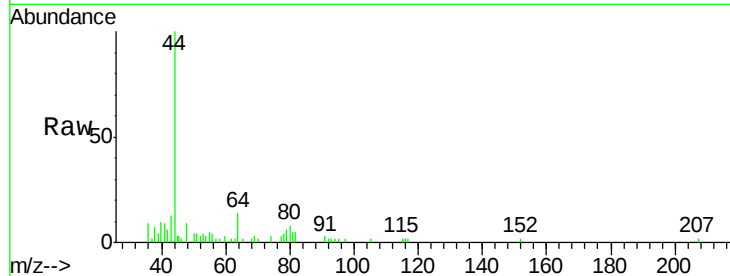




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002264.D
Acq: 04 Jun 2018 17:01

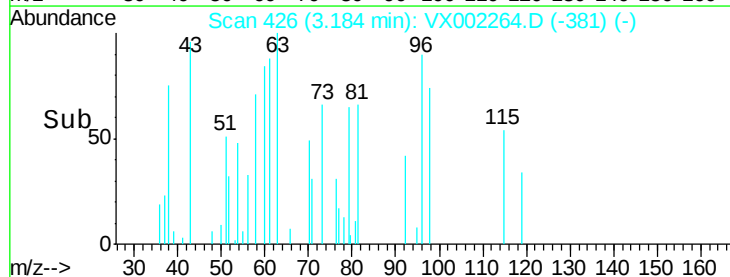
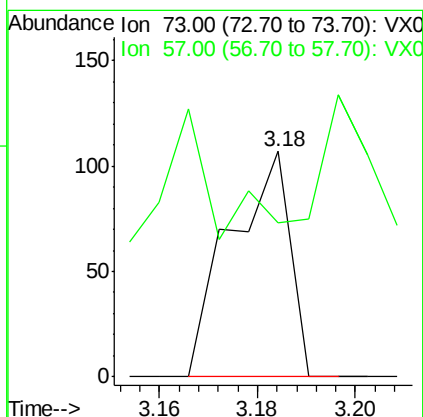
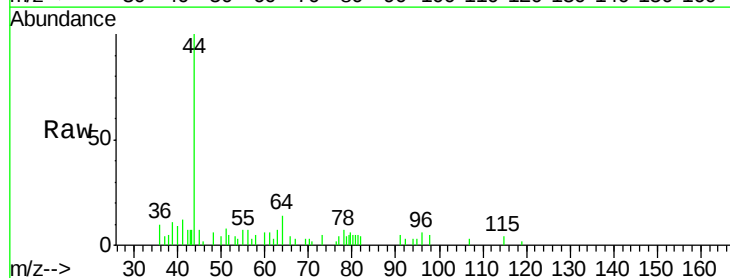
Instrument :
MSVOA_X
ClientSampled :

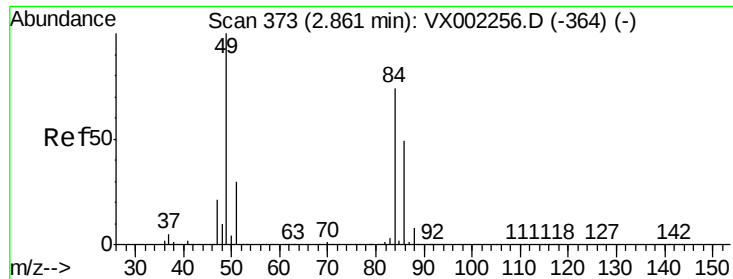
Tot Ion: 43 Resp: 285
Ion Ratio Lower Upper
43 100
74 18.2 16.7 25.1



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.18 min Scan# 426
Delta R.T. -0.02 min
Lab File: VX002264.D
Acq: 04 Jun 2018 17:01

Tgt Ion: 73 Resp: 90
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#





#20

Methvlene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

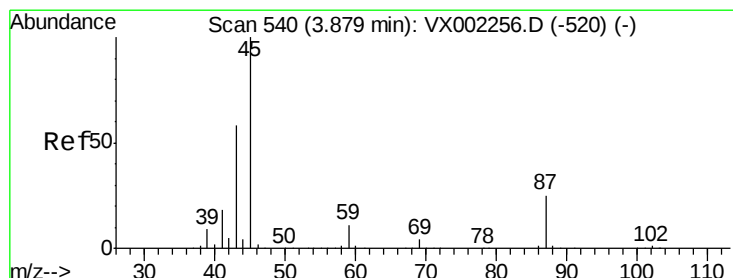
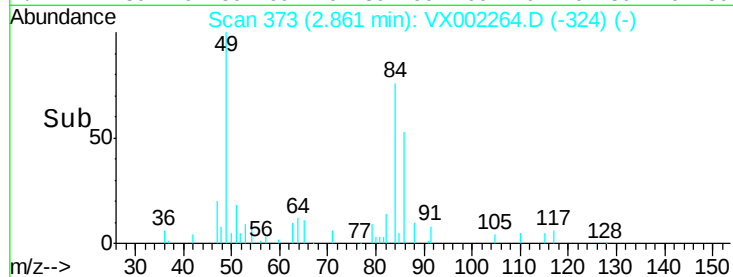
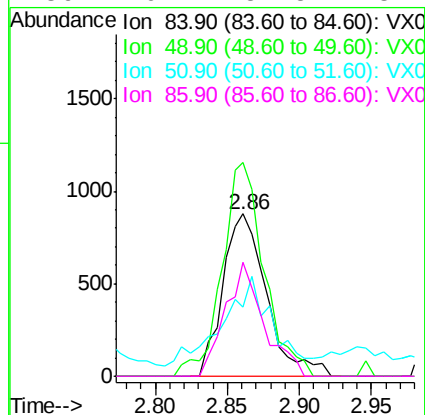
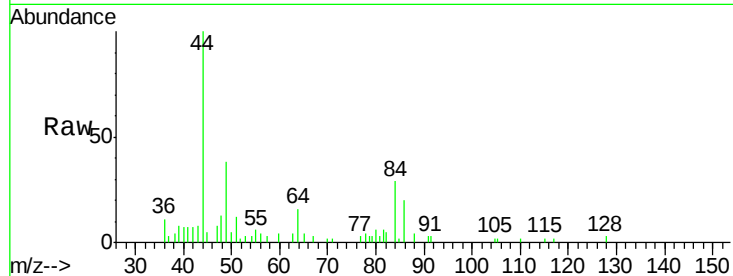
Delta R.T. 0.00 min

Lab File: VX002264.D

Acq: 04 Jun 2018 17:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	84	Resp:	1851
Ion	Ratio	Lower	Upper
84	100		
49	131.7	107.8	161.6
51	29.1	32.8	49.2#
86	70.1	52.5	78.7



#22

Diisopropyl ether

Concen: Below Cal

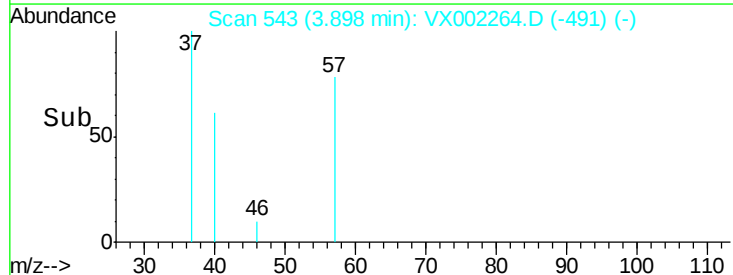
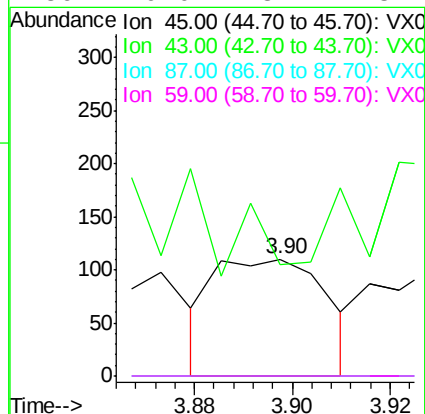
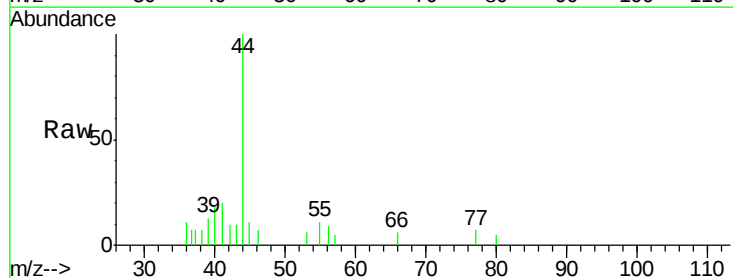
RT: 3.90 min Scan# 543

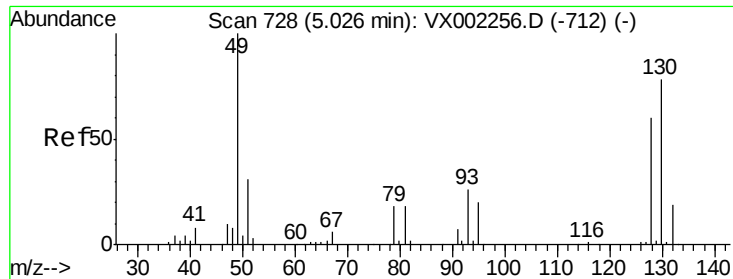
Delta R.T. 0.02 min

Lab File: VX002264.D

Acq: 04 Jun 2018 17:01

Tgt Ion:	45	Resp:	175
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#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

Delta R.T. 0.01 min

Lab File: VX002264.D

Acq: 04 Jun 2018 17:01

Instrument :

MSVOA_X

ClientSampleId :

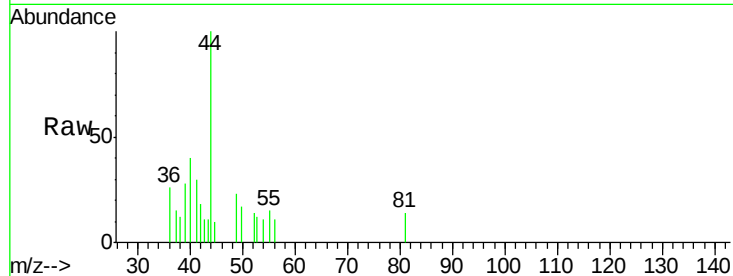
Tot Ion: 49 Resp: 114

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

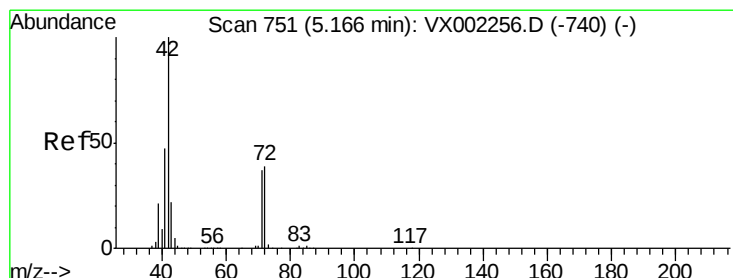
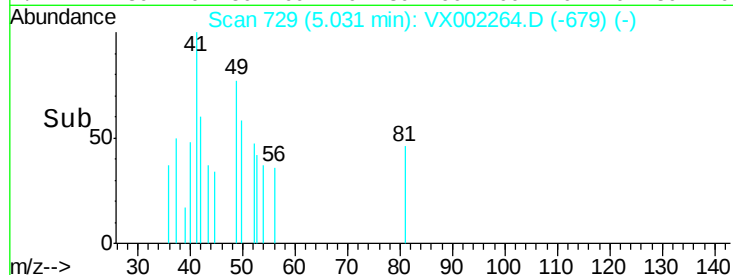
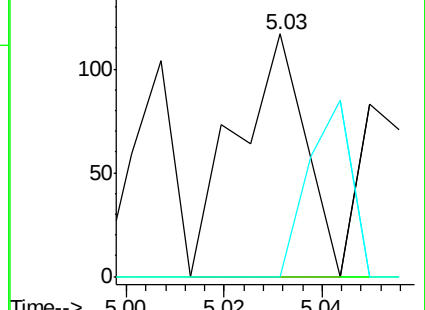
130 0.0 61.2 91.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.33 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX002264.D

Acq: 04 Jun 2018 17:01

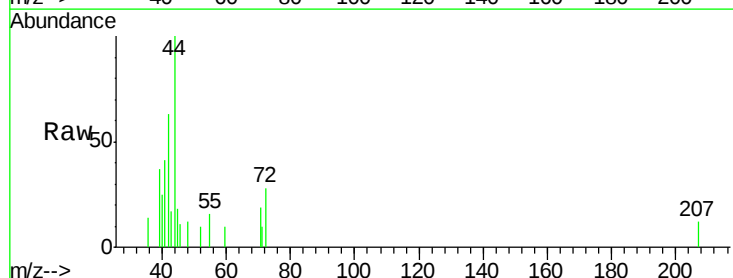
Tgt Ion: 42 Resp: 551

Ion Ratio Lower Upper

42 100

72 72.4 32.0 48.0#

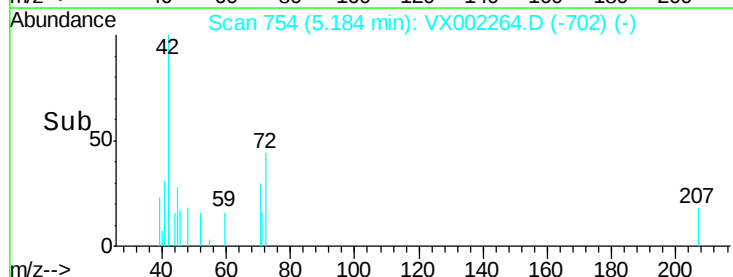
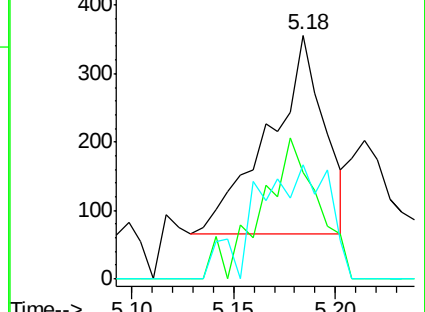
71 75.7 30.1 45.1#

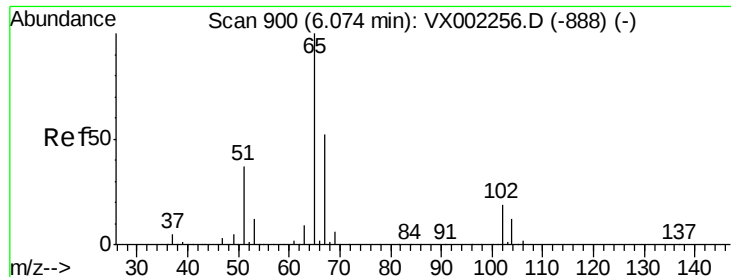


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

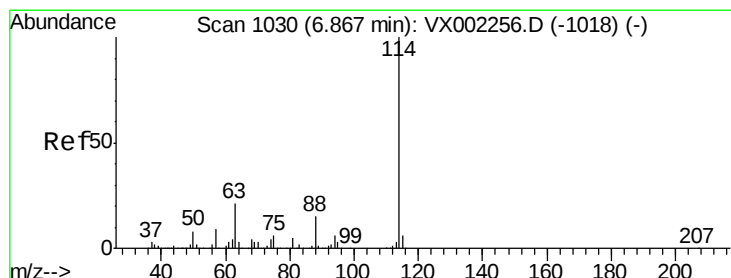
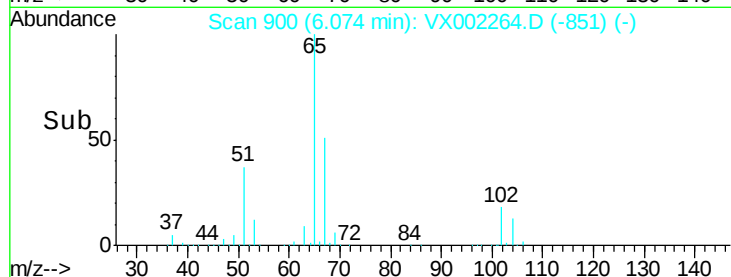
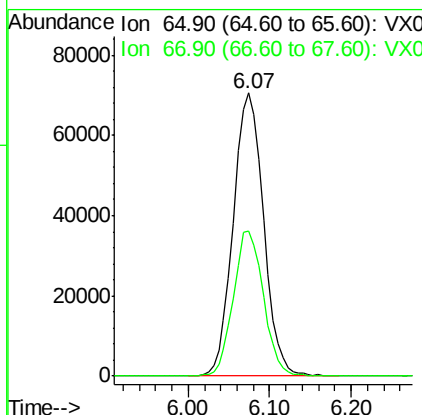
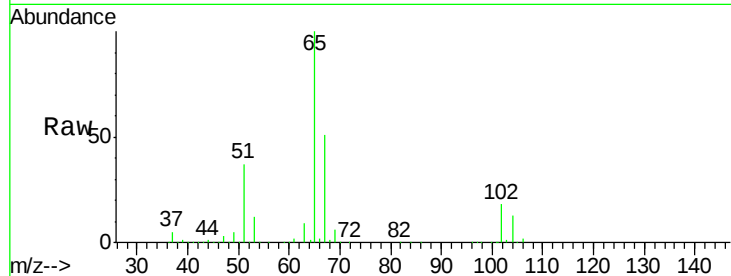




#33
 1,2-Dichloroethane-d4
 Concen: 47.75 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002264.D
 Acq: 04 Jun 2018 17:01

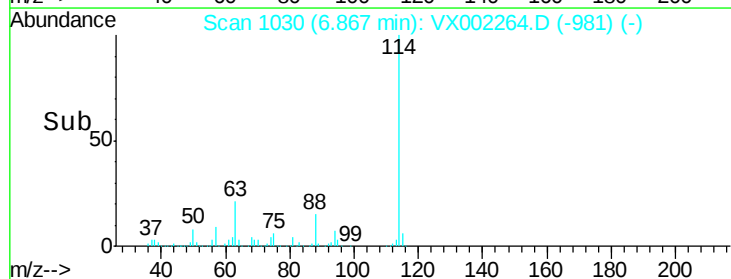
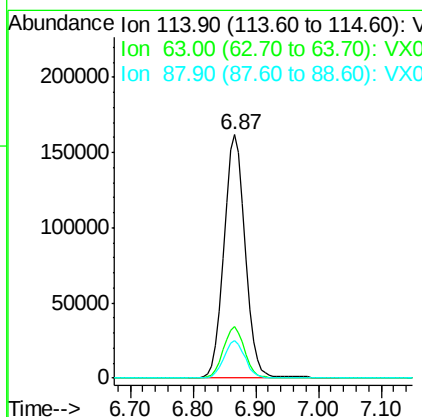
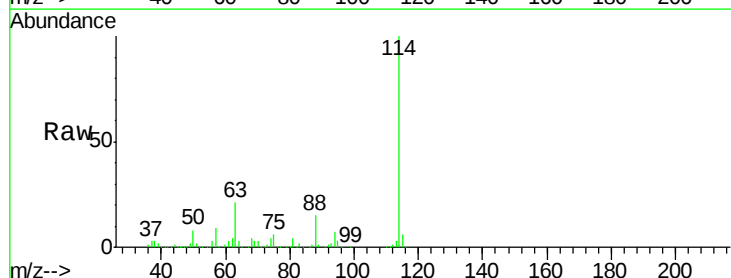
Instrument :
 MSVOA_X
 ClientSampleId :

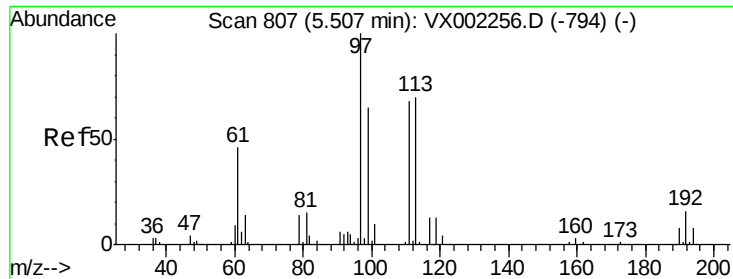
Tot Ion: 65 Resp: 181533
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002264.D
 Acq: 04 Jun 2018 17:01

Tgt Ion: 114 Resp: 380621
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 41.4
 88 15.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 45.11 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002264.D

Acq: 04 Jun 2018 17:01

Instrument :

MSVOA_X

ClientSampleId :

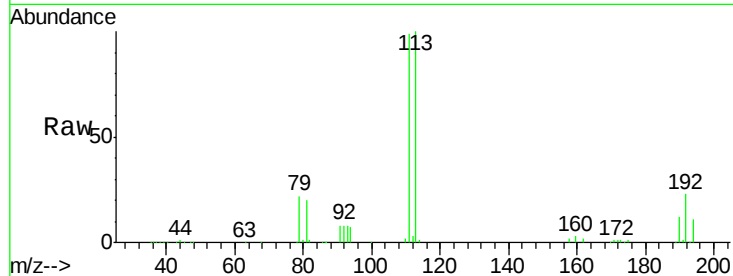
Tot Ion:113 Resp: 135031

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

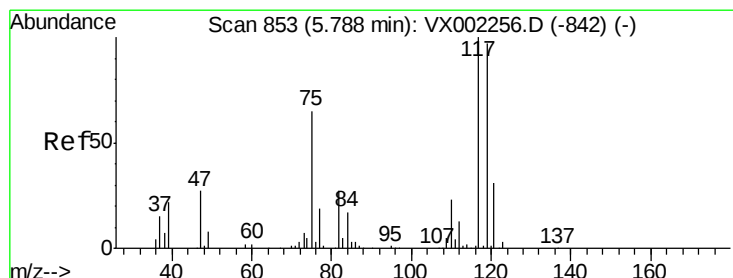
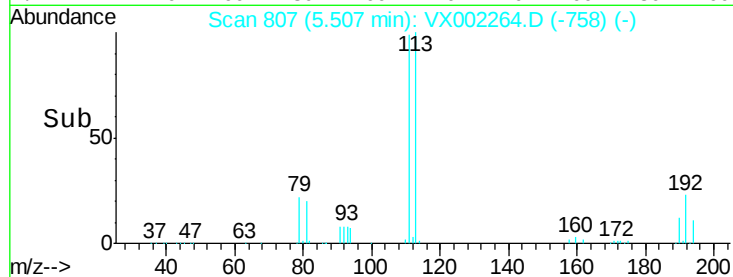
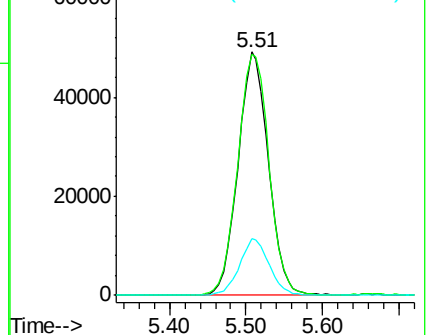
192 22.8 19.1 28.7



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



#38

Carbon Tetrachloride

Concen: 5.89 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002264.D

Acq: 04 Jun 2018 17:01

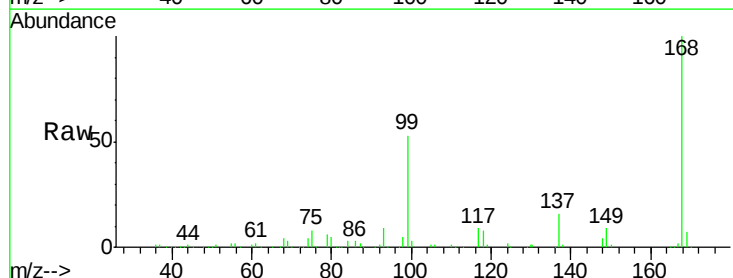
Tgt Ion:117 Resp: 24653

Ion Ratio Lower Upper

117 100

119 5.7 77.4 116.0#

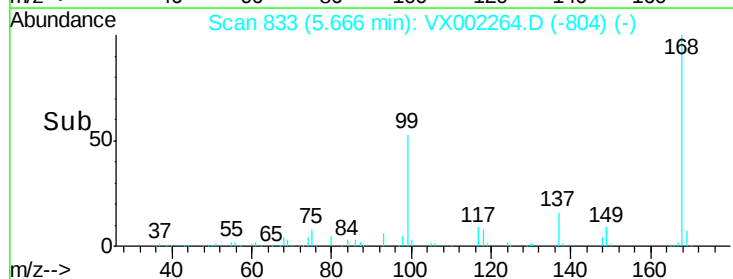
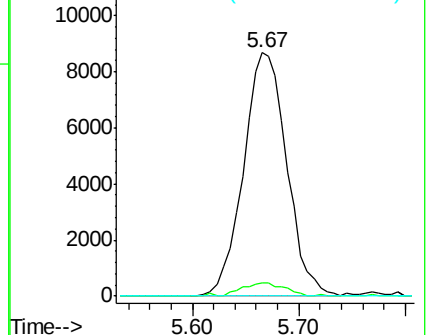
121 0.0 24.4 36.6#

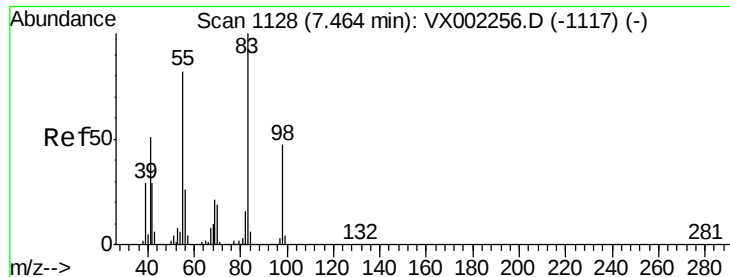


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

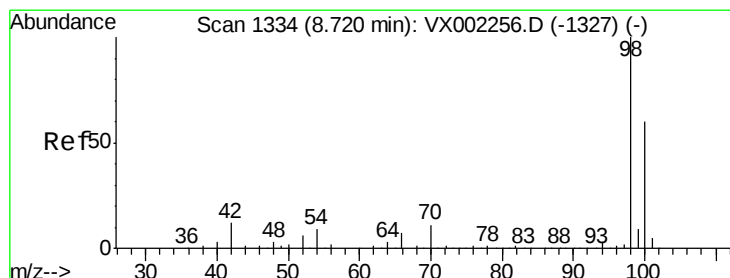
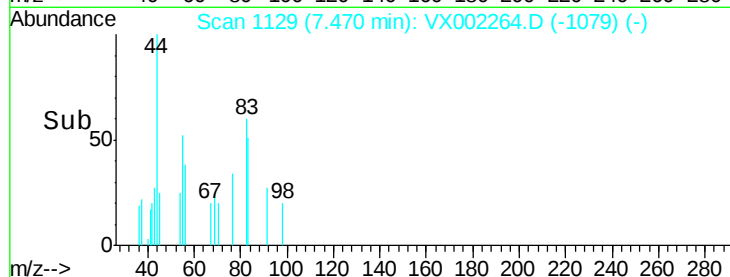
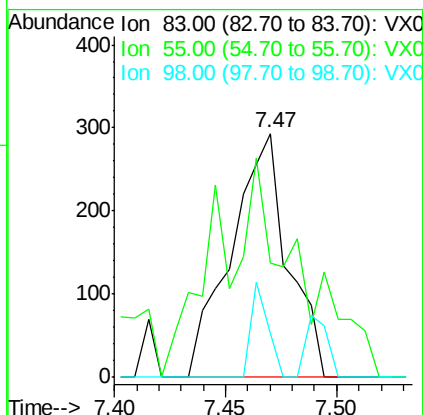
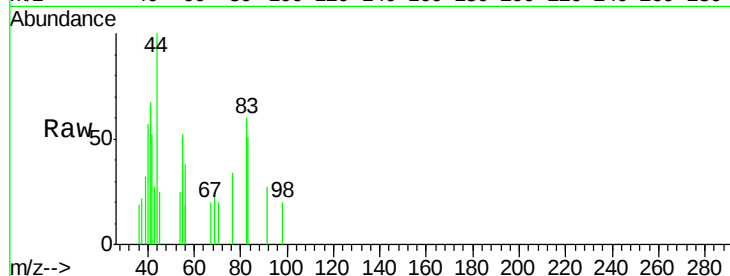




#39
Methylcyclohexane
Concen: 0.37 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VX002264.D
Acq: 04 Jun 2018 17:01

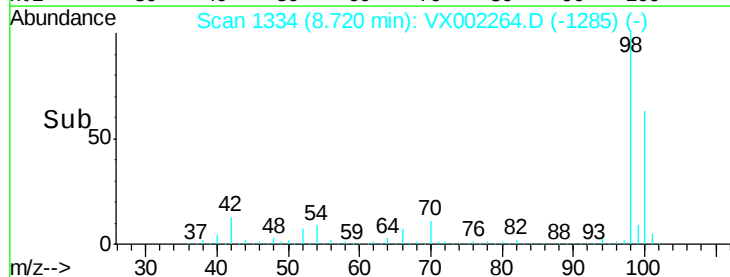
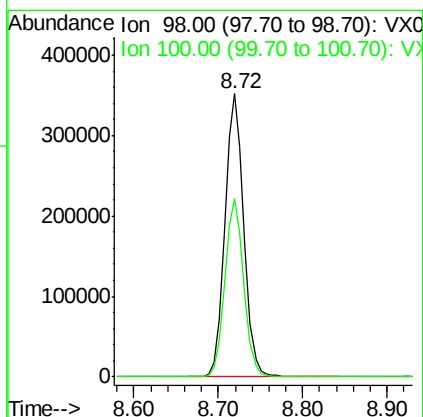
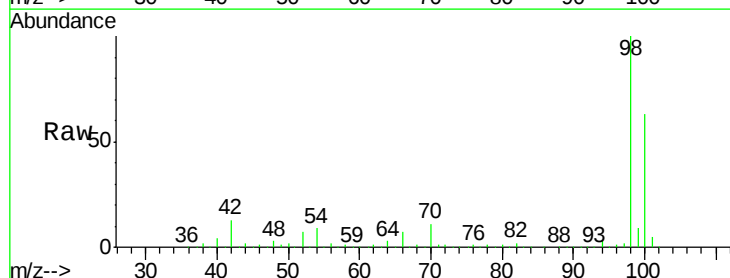
Instrument :
MSVOA_X
ClientSampleId :

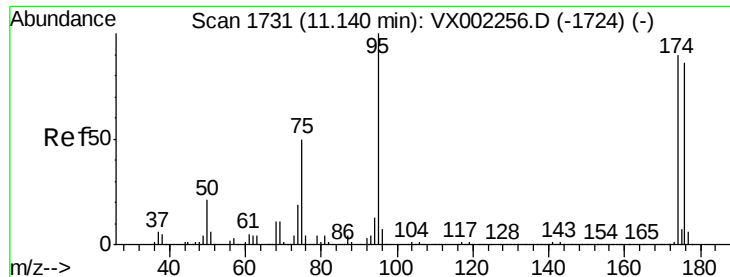
Tot Ion: 83 Resp: 519
Ion Ratio Lower Upper
83 100
55 23.2 65.4 98.0#
98 17.7 37.4 56.0#



#50
Toluene-d8
Concen: 47.09 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002264.D
Acq: 04 Jun 2018 17:01

Tgt Ion: 98 Resp: 540267
Ion Ratio Lower Upper
98 100
100 63.0 50.9 76.3

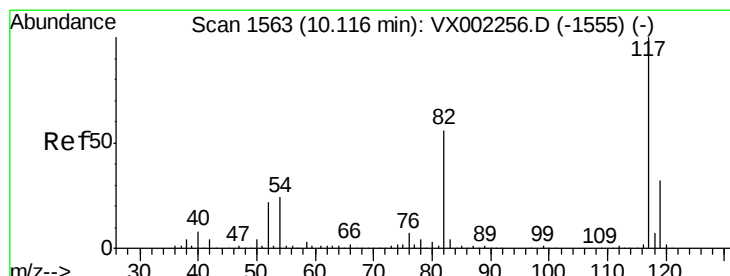
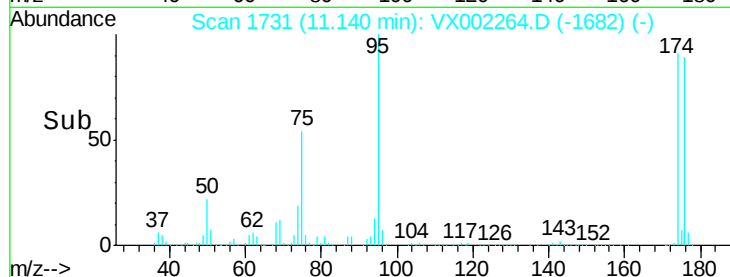
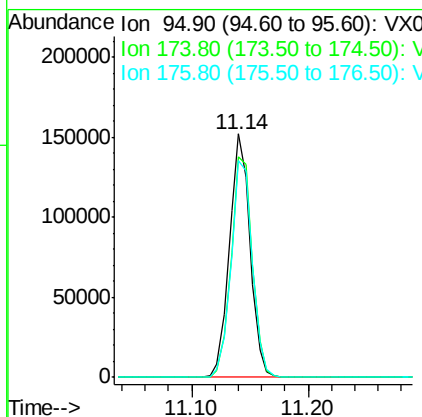
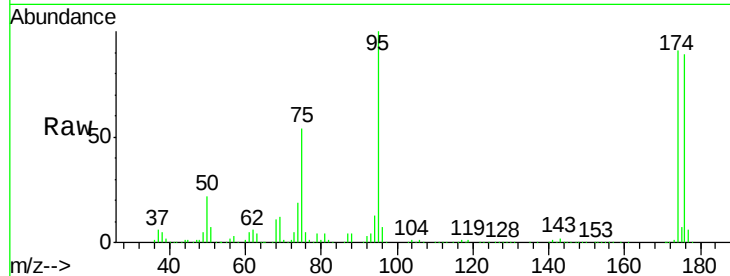




#62
4-Bromofluorobenzene
Concen: 42.39 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002264.D
Acq: 04 Jun 2018 17:01

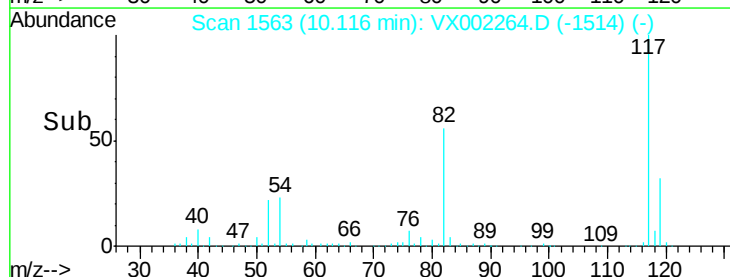
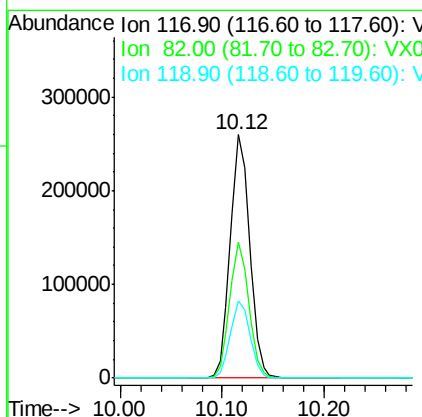
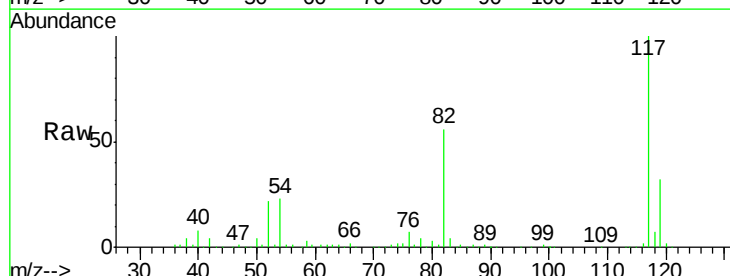
Instrument :
MSVOA_X
ClientSampleId :

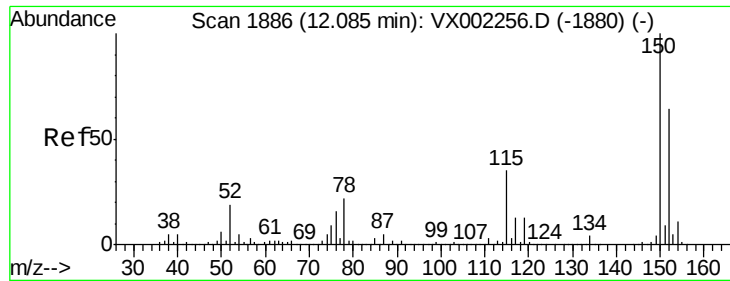
Tot Ion: 95 Resp: 187552
Ion Ratio Lower Upper
95 100
174 93.6 0.0 187.4
176 91.9 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002264.D
Acq: 04 Jun 2018 17:01

Tgt Ion: 117 Resp: 343246
Ion Ratio Lower Upper
117 100
82 55.6 45.0 67.4
119 31.8 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: VX002264.D

Acq: 04 Jun 2018 17:01

Instrument :

MSVOA_X

ClientSampleId :

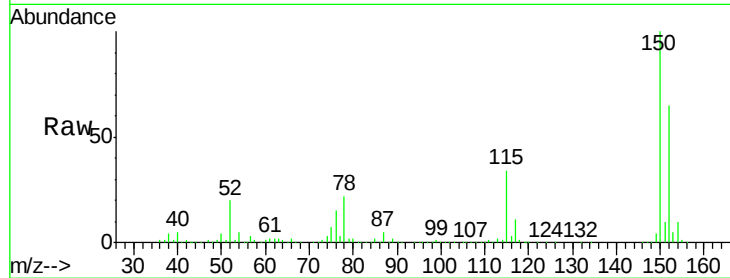
Tot Ion:152 Resp: 188300

Ion Ratio Lower Upper

152 100

115 55.2 40.1 120.2

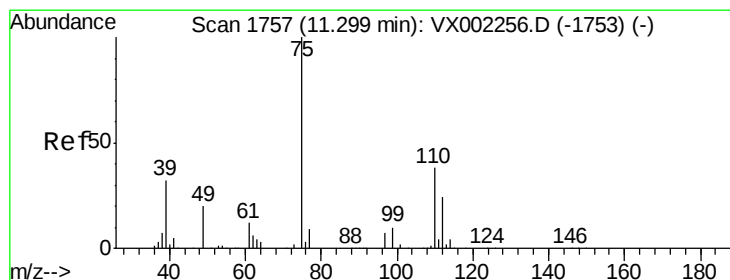
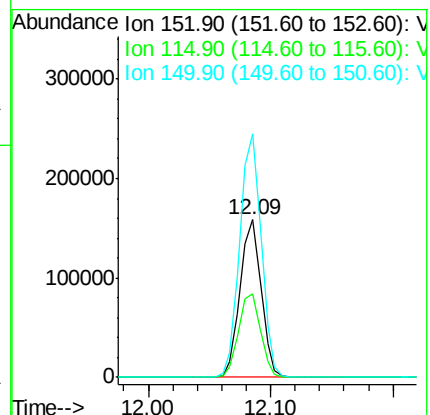
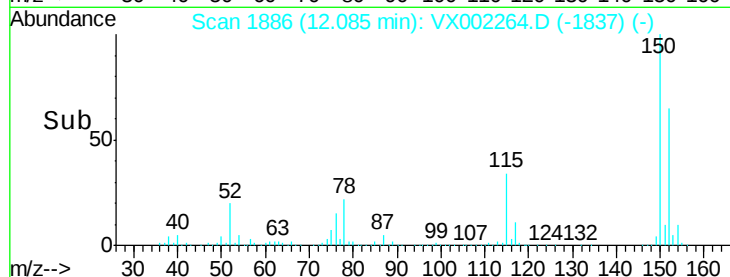
150 156.8 0.0 347.2



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: 24.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002264.D

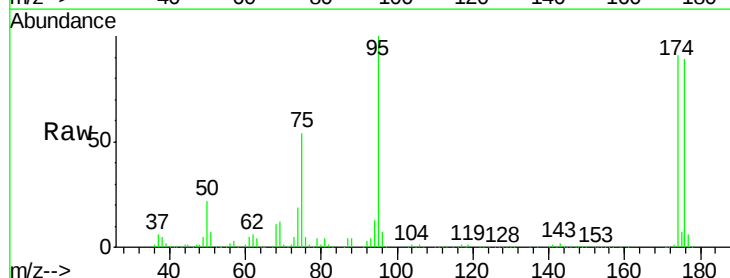
Acq: 04 Jun 2018 17:01

Tgt Ion: 75 Resp: 101018

Ion Ratio Lower Upper

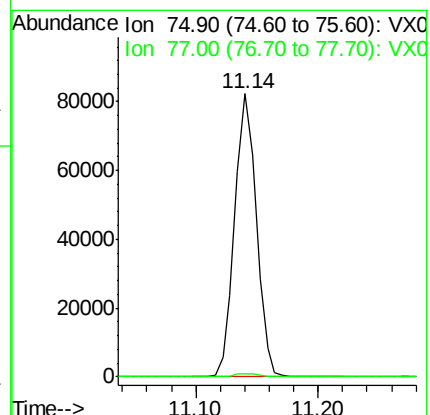
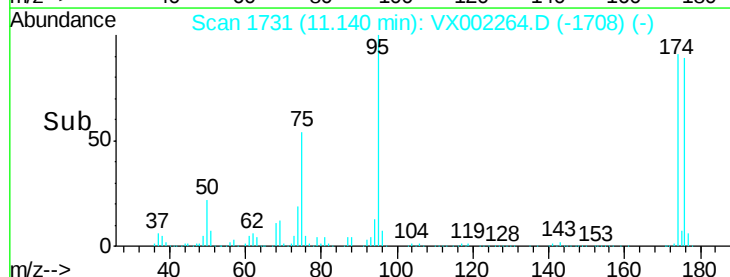
75 100

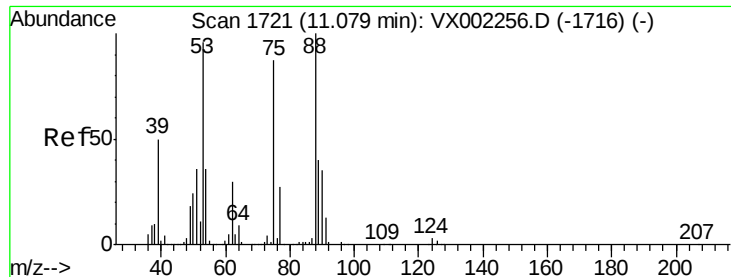
77 1.3 22.8 68.3#



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: 85.70 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002264.D

Acq: 04 Jun 2018 17:01

Instrument :

MSVOA_X

ClientSampleId :

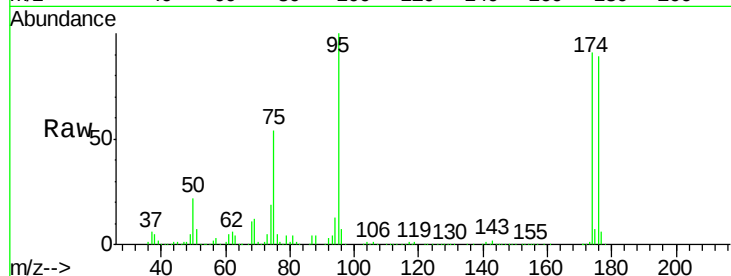
Tot Ion: 75 Resp: 101018

Ion Ratio Lower Upper

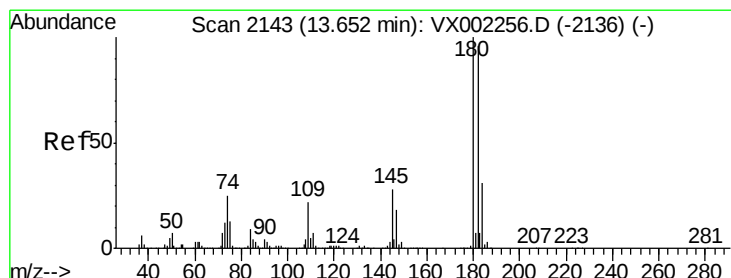
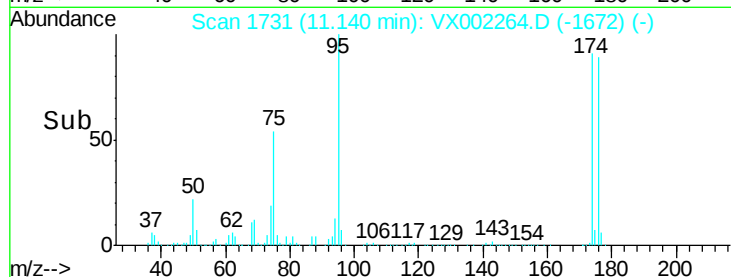
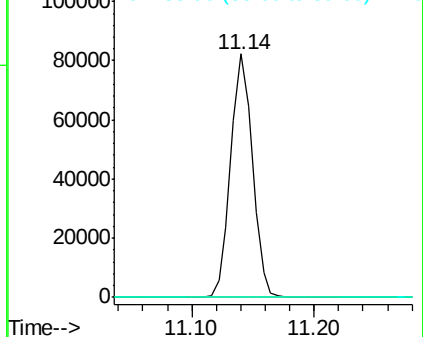
75 100

53 0.0 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



#93

1,2,4-Trichlorobenzene

Concen: 0.22 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VX002264.D

Acq: 04 Jun 2018 17:01

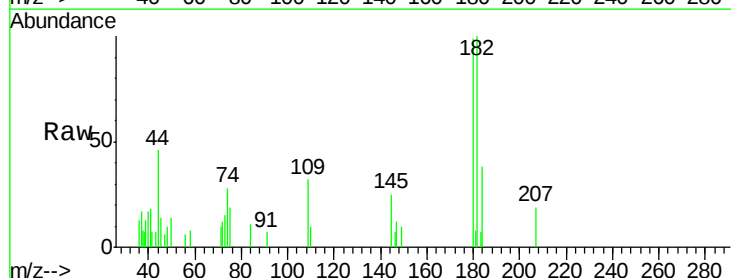
Tgt Ion: 180 Resp: 1034

Ion Ratio Lower Upper

180 100

182 98.6 47.7 143.1

145 30.7 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

