

Data Path : Y:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060418\
 Data File : VX002289.D
 Acq On : 05 Jun 2018 04:58
 Operator : JC/MD
 Sample : J3269-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW750-180531

Quant Time: Jun 05 07:24:11 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	243726	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	353002	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	324723	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	173750	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	170120	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	
35) Dibromofluoromethane	5.51	113	124883	44.99	ug/l	0.00
Spiked Amount			Recovery	=	89.98%	
50) Toluene-d8	8.72	98	509605	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	
62) 4-Bromofluorobenzene	11.14	95	174762	42.59	ug/l	0.00
Spiked Amount			Recovery	=	85.18%	

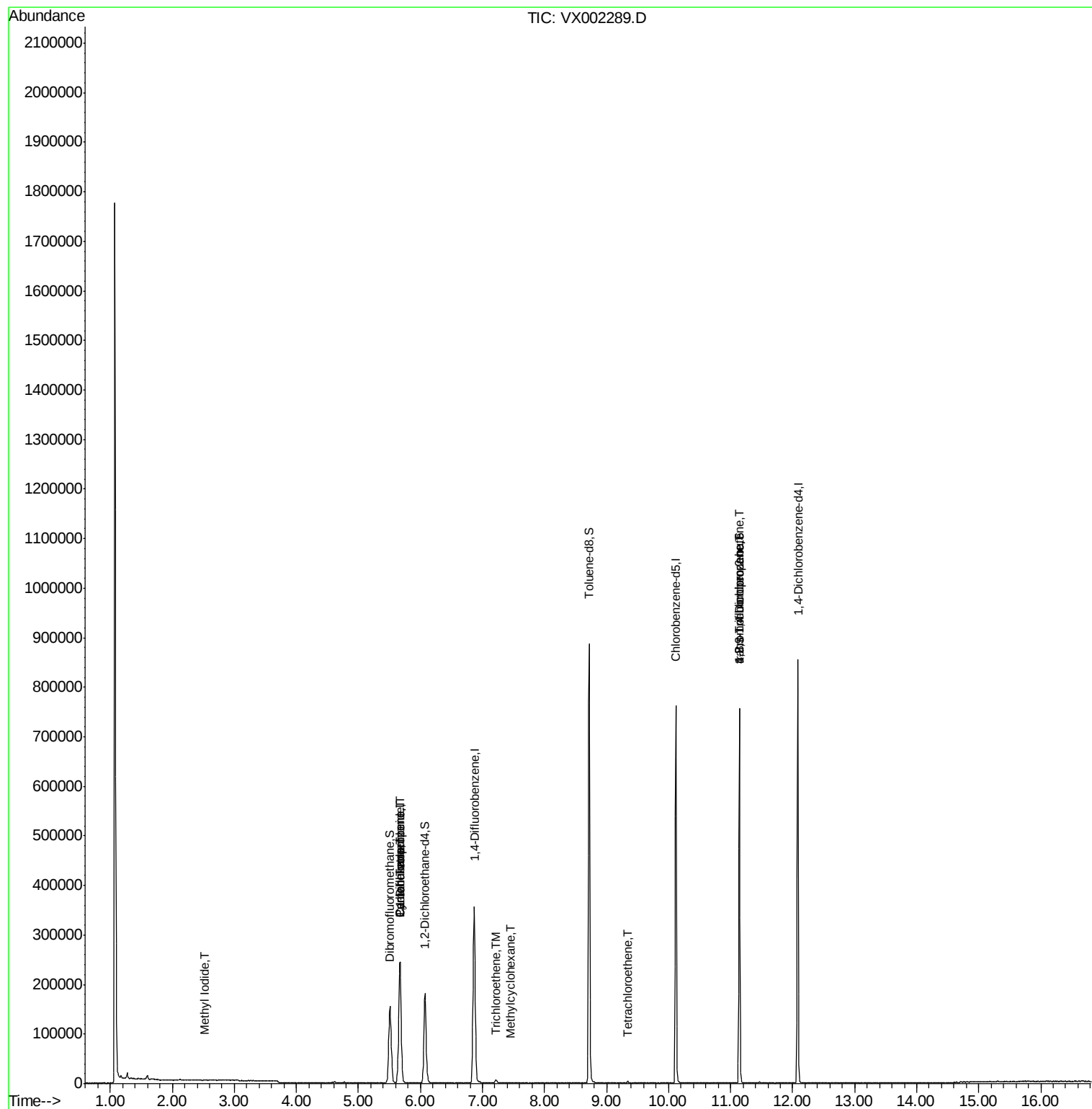
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	424	Below Cal		95
5) Bromomethane	1.62	94	70	Below Cal	#	3
8) Diethyl Ether	2.19	74	20	Below Cal	#	1
10) Methyl Iodide	2.52	142	945	0.26	ug/l	93
11) Tert butyl alcohol	3.09	59	41	Below Cal	#	1
13) Acrolein	2.31	56	51	Below Cal	#	1
15) Acrylonitrile	3.14	53	225	Below Cal	#	51
16) Acetone	2.45	43	830	Below Cal		98
18) Methyl Acetate	2.77	43	150	Below Cal	#	55
19) Methyl tert-butyl Ether	3.21	73	44	Below Cal	#	82
20) Methylene Chloride	2.86	84	334	Below Cal	#	71
22) Diisopropyl ether	3.90	45	164	Below Cal	#	58
28) Bromochloromethane	5.03	49	23	Below Cal	#	13
31) Cyclohexane	5.67	56	5060	1.15	ug/l	7
36) 1,1-Dichloropropene	5.67	75	17795	4.80	ug/l	50
38) Carbon Tetrachloride	5.67	117	22910	5.90	ug/l	15
39) Methylcyclohexane	7.45	83	81	0.28	ug/l	29
44) Trichloroethene	7.21	130	2470	0.78	ug/l	97
64) Tetrachloroethene	9.34	164	780	0.23	ug/l	71
76) 1,2,3-Trichloropropane	11.14	75	93688	24.57	ug/l	32
81) trans-1,4-Dichloro-2-buten	11.14	75	93688	86.14	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: VX002289.D

Acq: 05 Jun 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

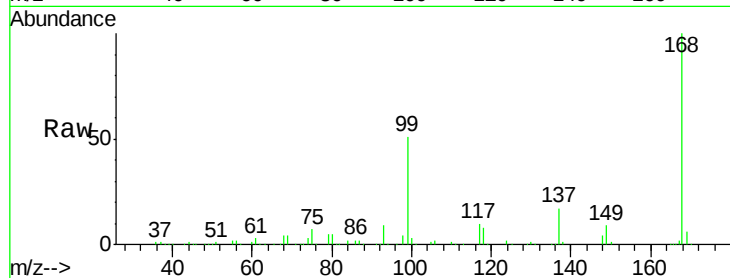
SS052MW750-180531

Tot Ion:168 Resp: 243726

Ion Ratio Lower Upper

168 100

99 50.9 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

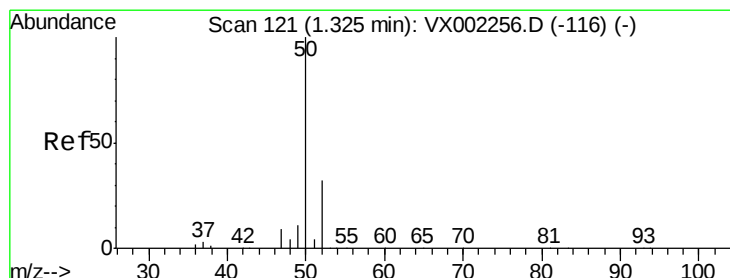
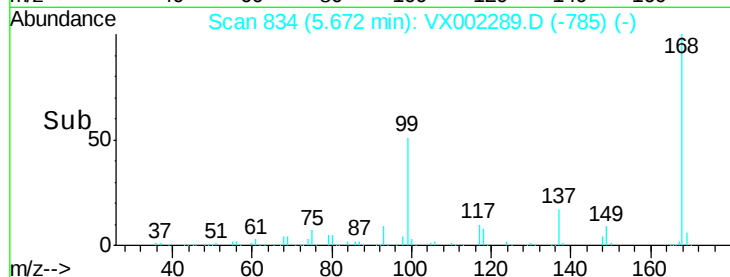
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002289.D

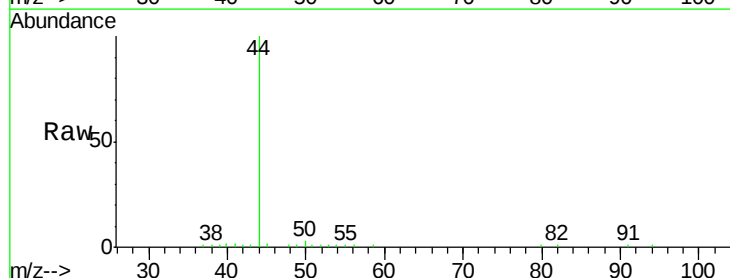
Acq: 05 Jun 2018 04:58

Tgt Ion: 50 Resp: 424

Ion Ratio Lower Upper

50 100

52 34.7 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

300

250

200

150

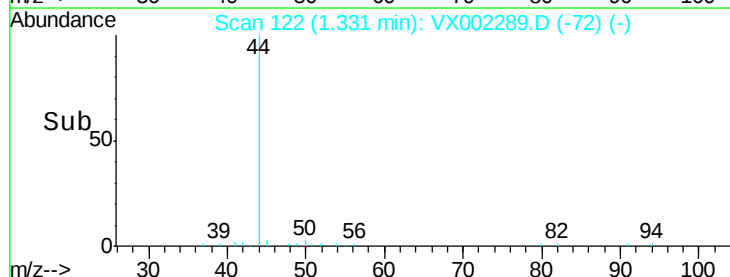
100

50

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 170

Delta R.T. -0.01 min

Lab File: VX002289.D

Acq: 05 Jun 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

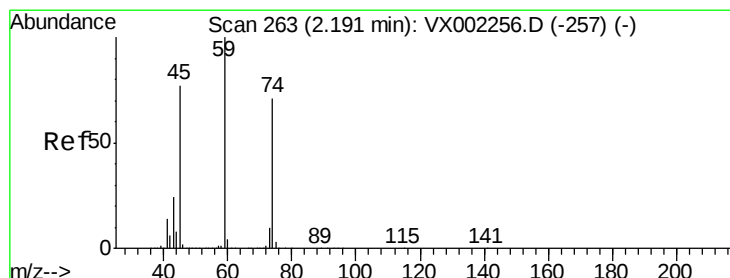
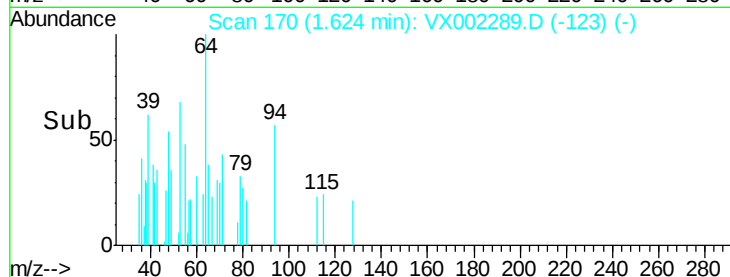
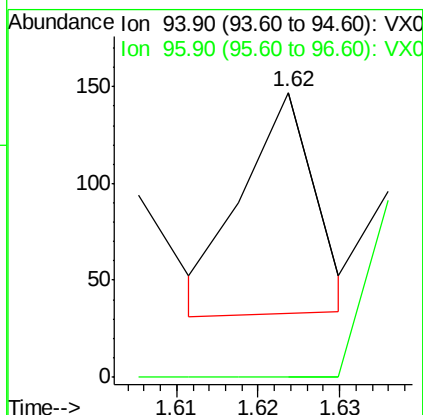
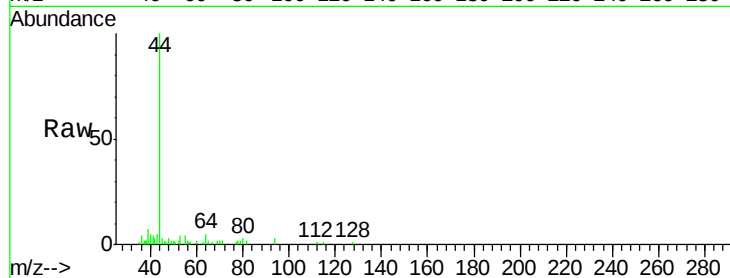
SS052MW750-180531

Tot Ion: 94 Resp: 70

Ion Ratio Lower Upper

94 100

96 0.0 74.9 112.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002289.D

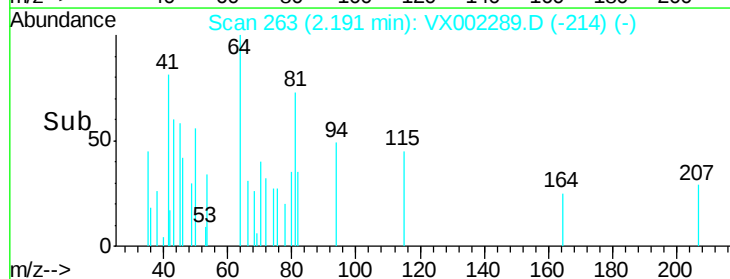
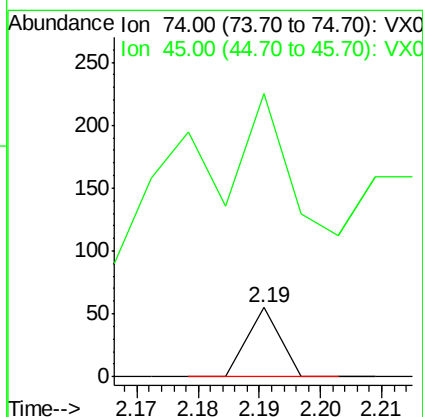
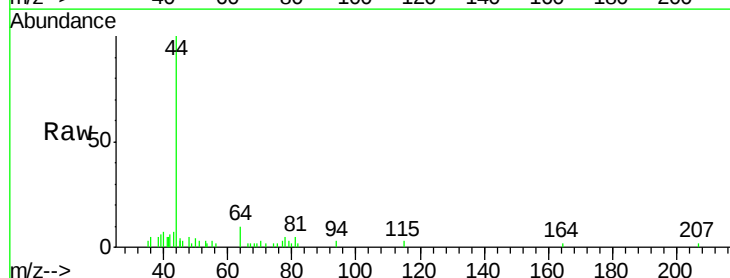
Acq: 05 Jun 2018 04:58

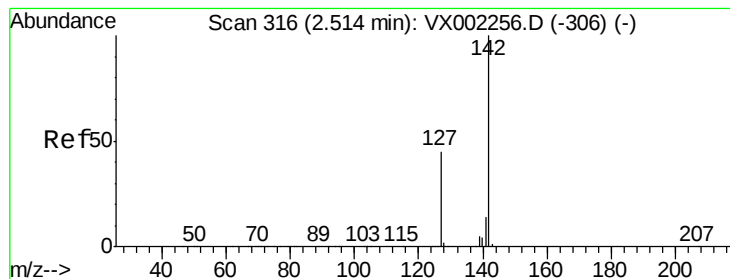
Tgt Ion: 74 Resp: 20

Ion Ratio Lower Upper

74 100

45 400.0 53.1 159.4#





#10

Methyl Iodide

Concen: 0.26 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002289.D

Acq: 05 Jun 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

SS052MW750-180531

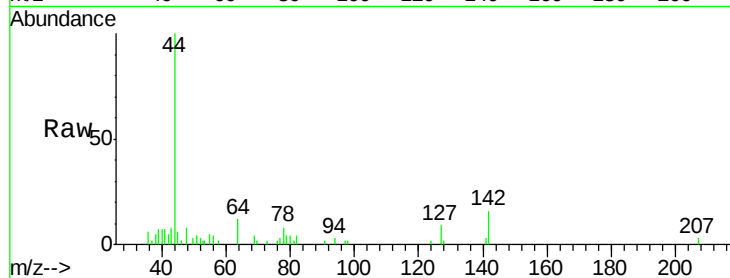
Tot Ion:142 Resp: 945

Ion Ratio Lower Upper

142 100

127 50.2 36.6 55.0

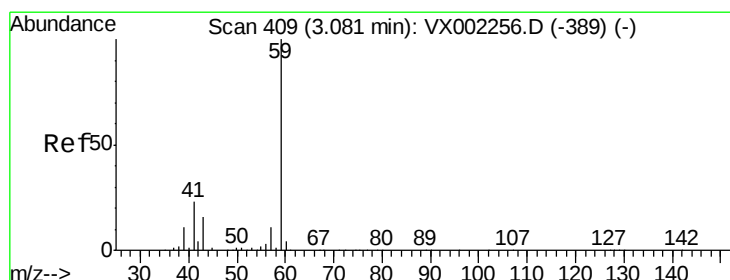
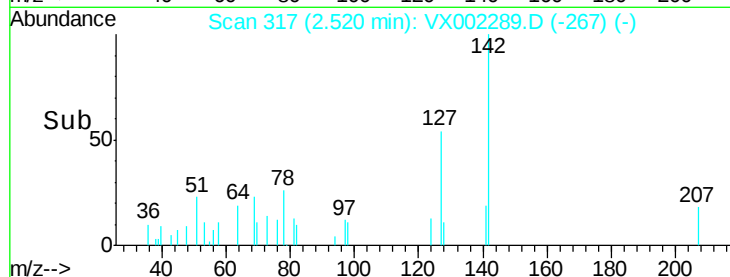
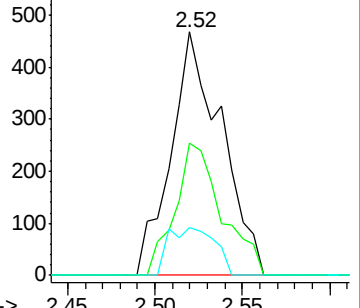
141 18.0 11.3 16.9#



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: 3.09 min Scan# 411

Delta R.T. 0.01 min

Lab File: VX002289.D

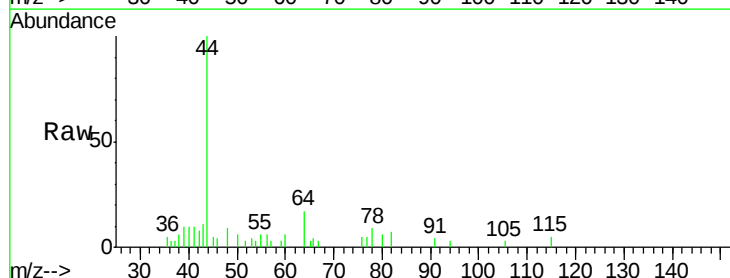
Acq: 05 Jun 2018 04:58

Tgt Ion: 59 Resp: 41

Ion Ratio Lower Upper

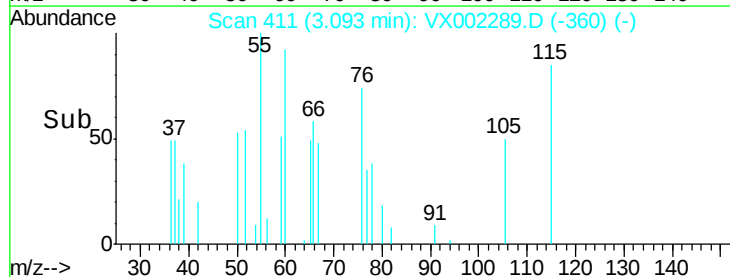
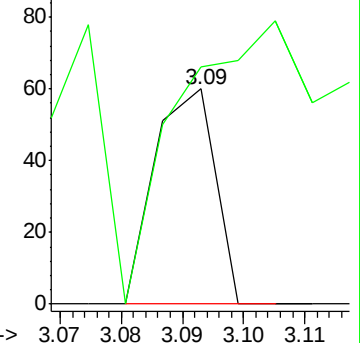
59 100

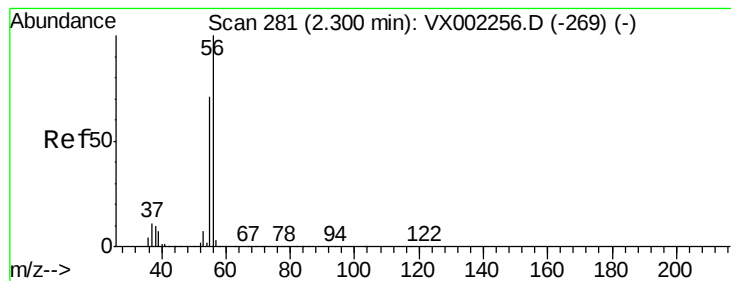
57 339.0 8.2 12.2#



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: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002289.D

Acq: 05 Jun 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

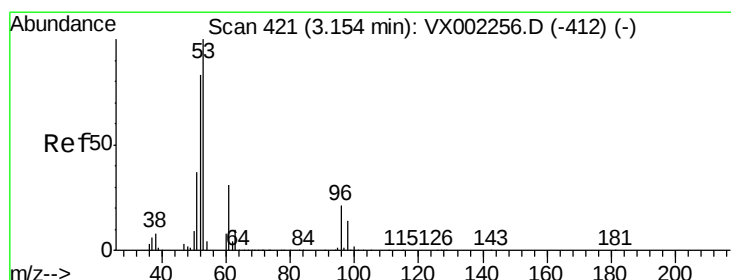
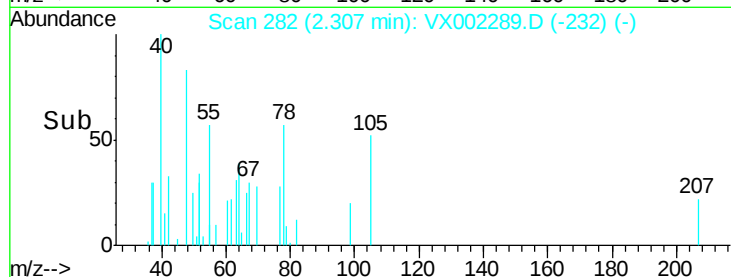
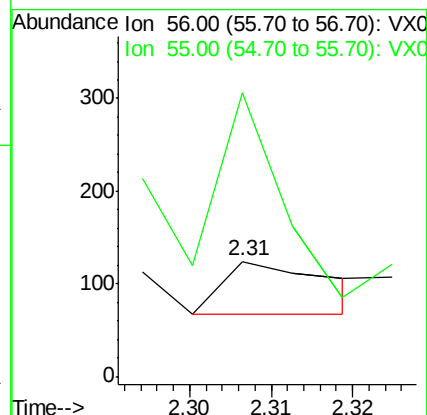
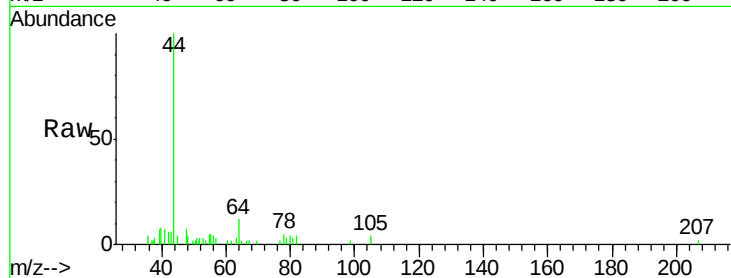
SS052MW750-180531

Tot Ion: 56 Resp: 51

Ion Ratio Lower Upper

56 100

55 294.1 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.14 min Scan# 418

Delta R.T. -0.02 min

Lab File: VX002289.D

Acq: 05 Jun 2018 04:58

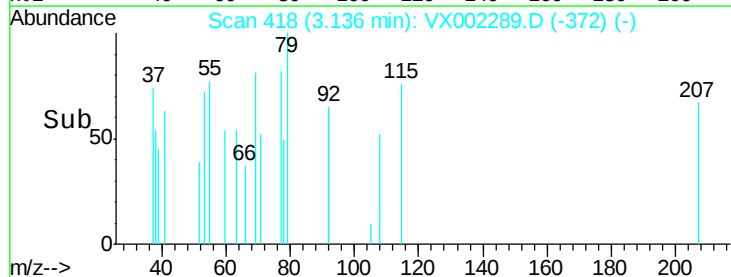
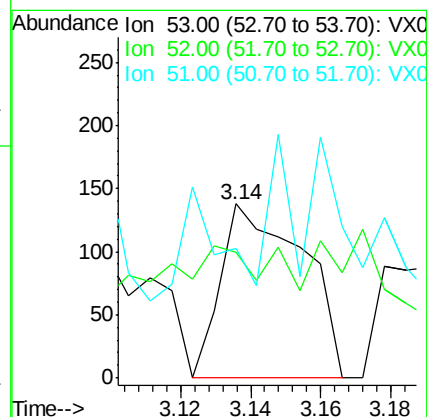
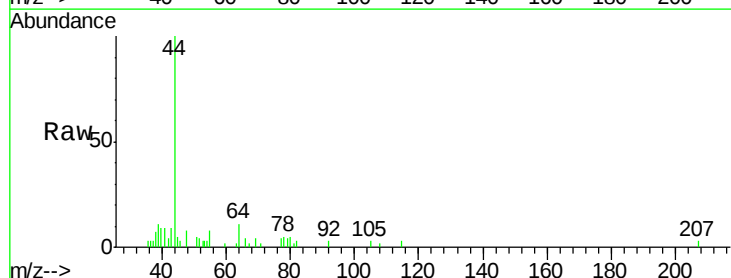
Tgt Ion: 53 Resp: 225

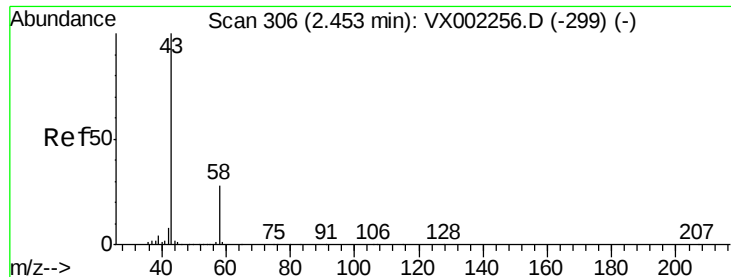
Ion Ratio Lower Upper

53 100

52 23.1 66.7 100.1#

51 31.6 29.9 44.9





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002289.D

Acq: 05 Jun 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

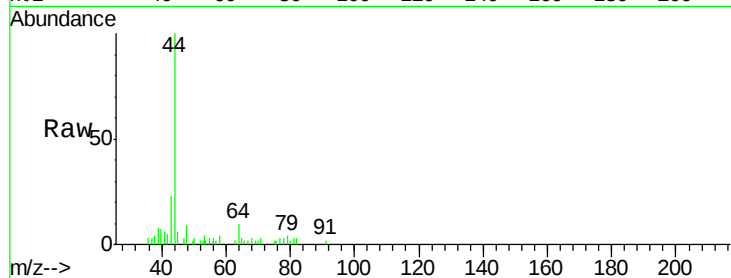
SS052MW750-180531

Tot Ion: 43 Resp: 830

Ion Ratio Lower Upper

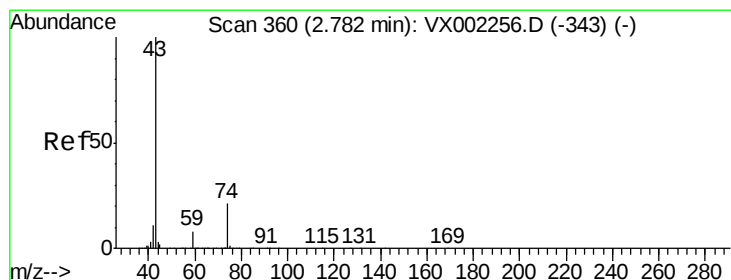
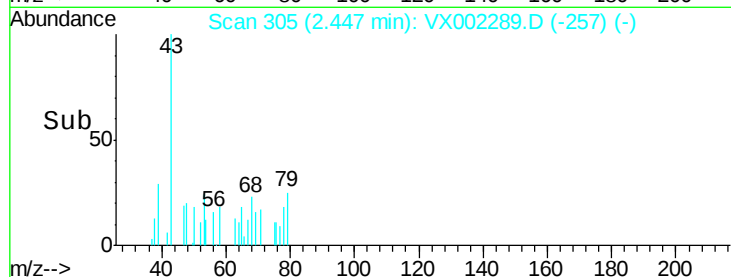
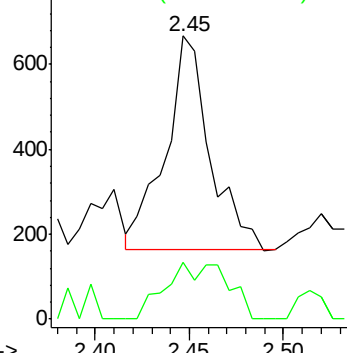
43 100

58 26.4 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: 2.77 min Scan# 358

Delta R.T. -0.01 min

Lab File: VX002289.D

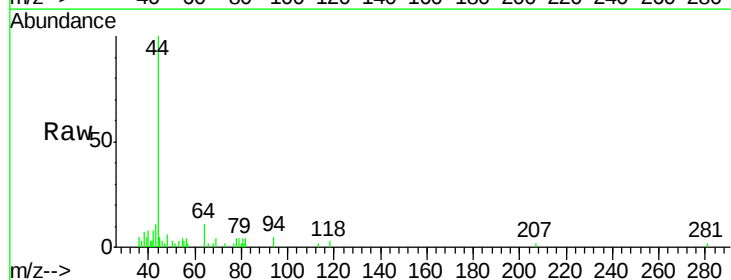
Acq: 05 Jun 2018 04:58

Tgt Ion: 43 Resp: 150

Ion Ratio Lower Upper

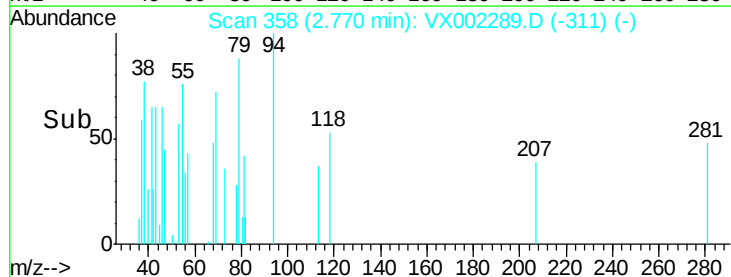
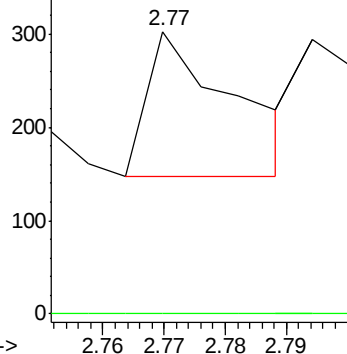
43 100

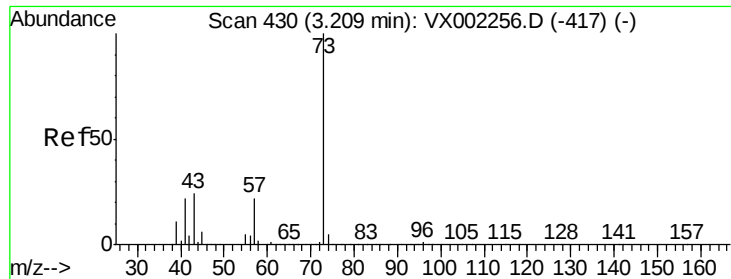
74 0.0 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

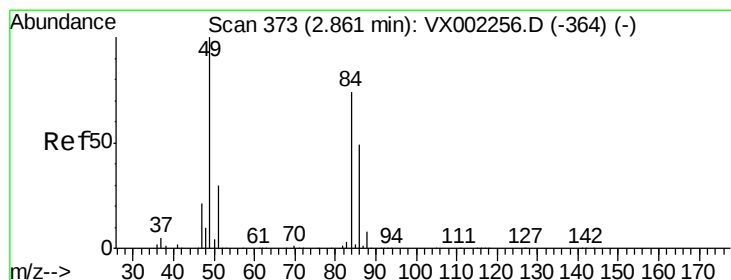
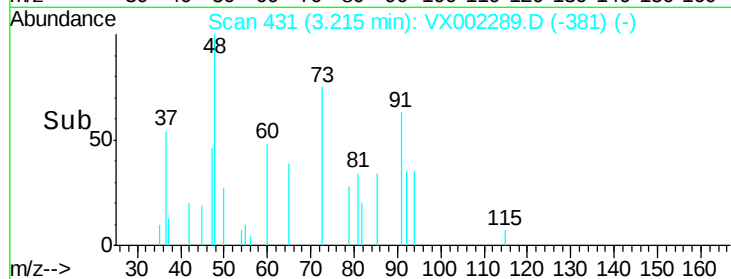
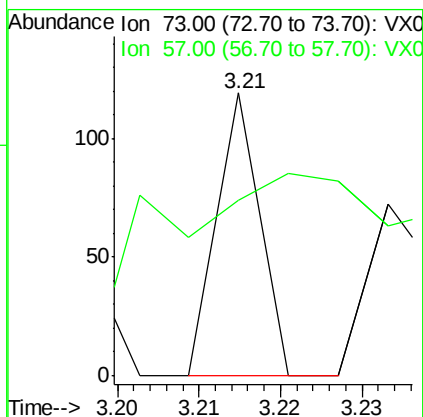
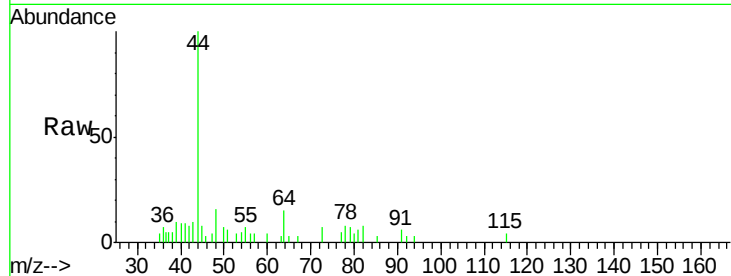




#19
Methvl tert-butvl Ether
Concen: Below Cal
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002289.D
Acq: 05 Jun 2018 04:58

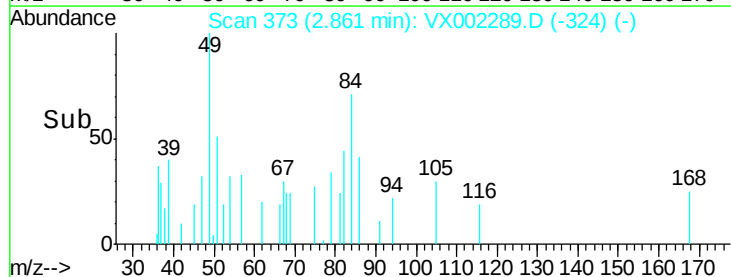
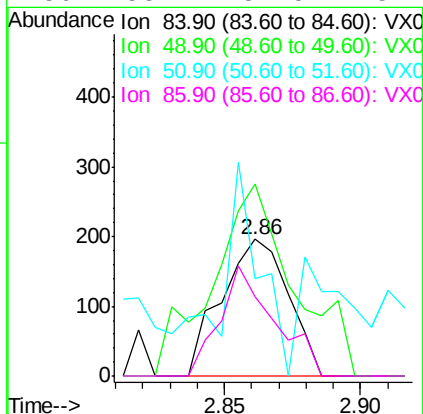
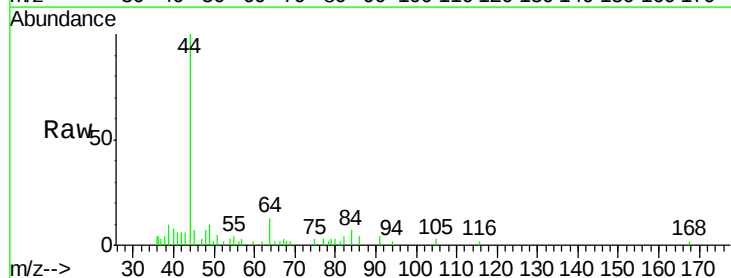
Instrument :
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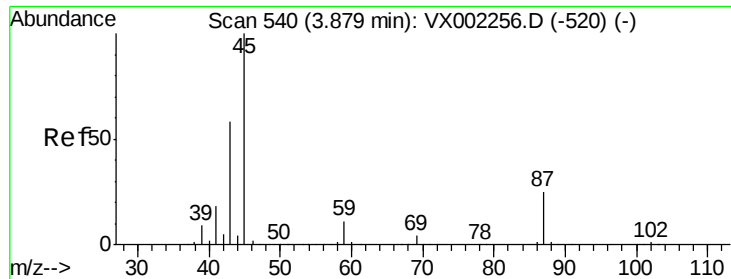
Tot Ion: 73 Resp: 44
Ion Ratio Lower Upper
73 100
57 13.4 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002289.D
Acq: 05 Jun 2018 04:58

Tgt Ion: 84 Resp: 334
Ion Ratio Lower Upper
84 100
49 85.2 107.8 161.6#
51 28.1 32.8 49.2#
86 58.2 52.5 78.7



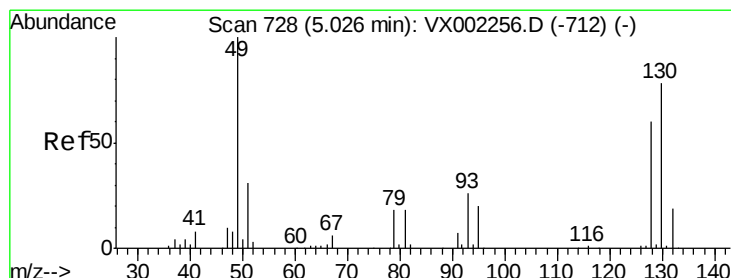
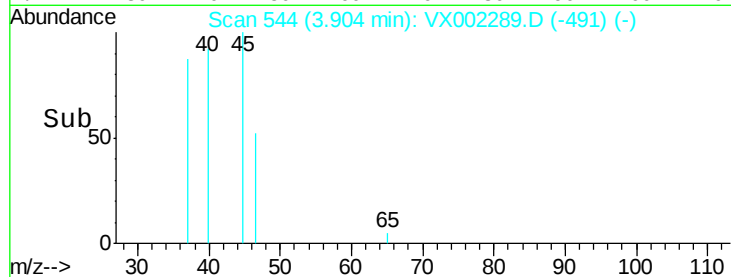
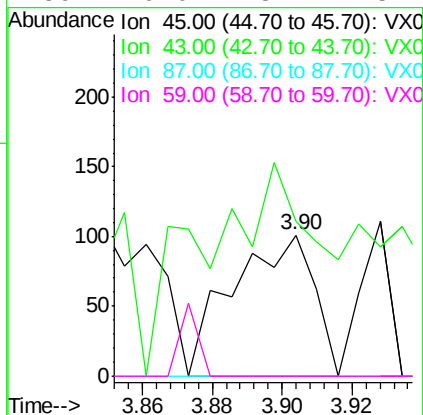
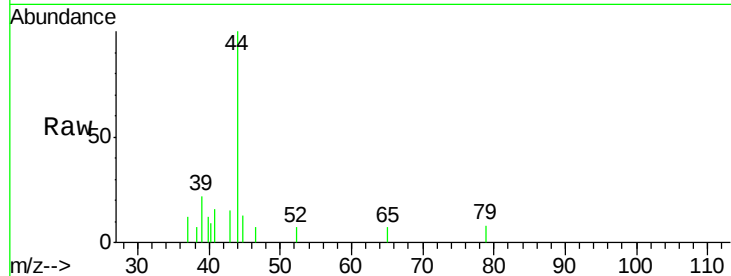


#22

Diisopropyl ether
 Concen: Below Cal
 RT: 3.90 min Scan# 544
 Delta R.T. 0.02 min
 Lab File: VX002289.D
 Acq: 05 Jun 2018 04:58

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW750-180531

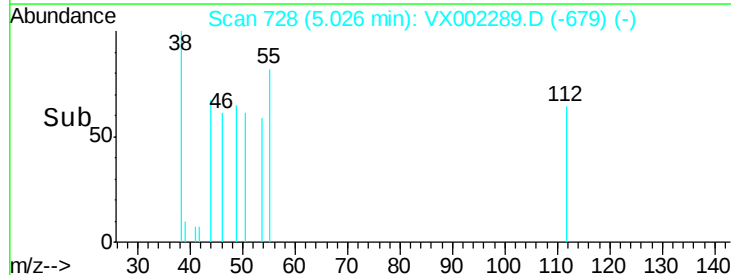
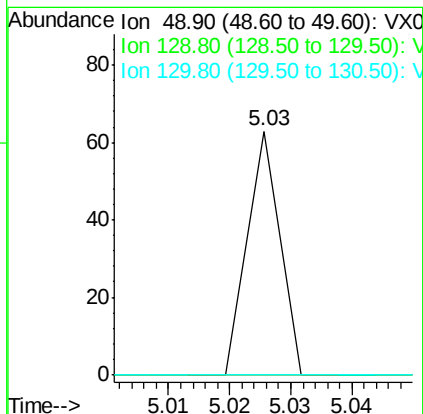
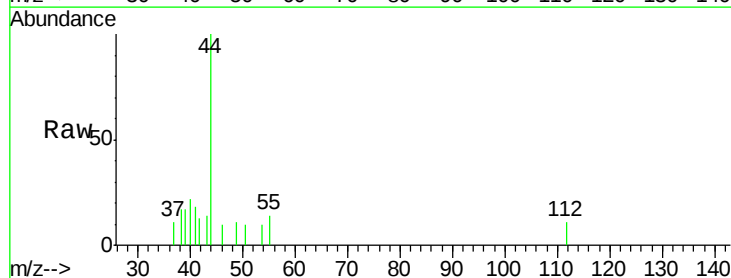
Tot Ion: 45 Resp: 164
 Ion Ratio Lower Upper
 45 100
 43 27.7 46.8 70.2#
 87 0.0 20.2 30.4#
 59 0.0 8.7 13.1#

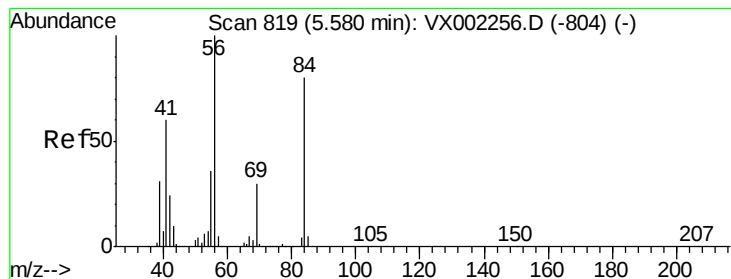


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.03 min Scan# 728
 Delta R.T. 0.00 min
 Lab File: VX002289.D
 Acq: 05 Jun 2018 04:58

Tgt Ion: 49 Resp: 23
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 4.2
 130 0.0 61.2 91.8#





#31

Cyclohexane

Concen: 1.15 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002289.D

Acq: 05 Jun 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

SS052MW750-180531

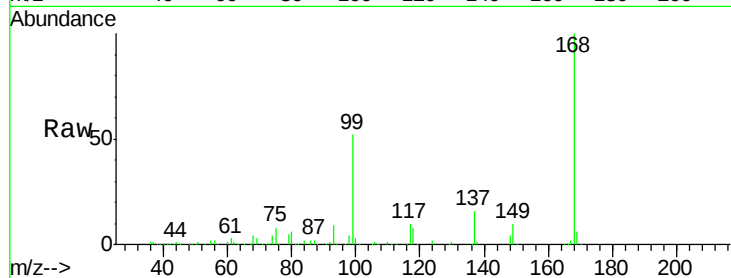
Tot Ion: 56 Resp: 5060

Ion Ratio Lower Upper

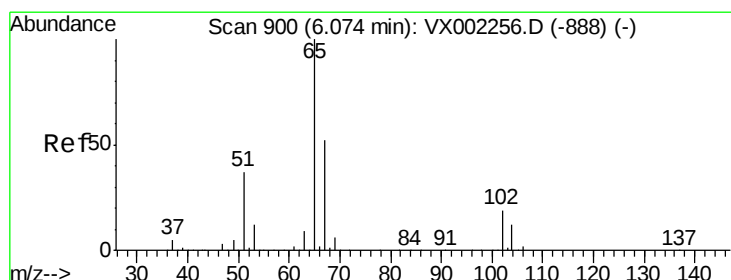
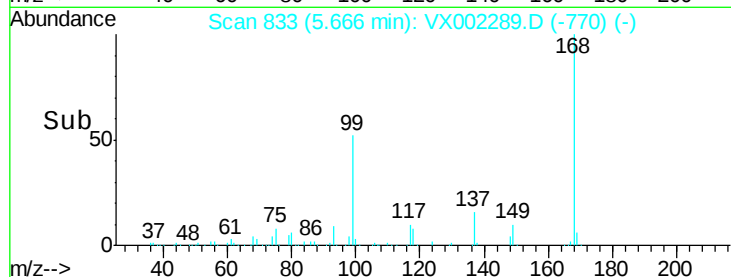
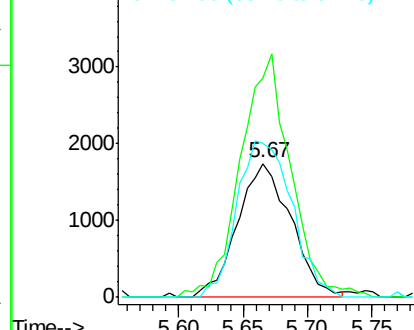
56 100

69 158.9 23.7 35.5#

84 114.6 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.72 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002289.D

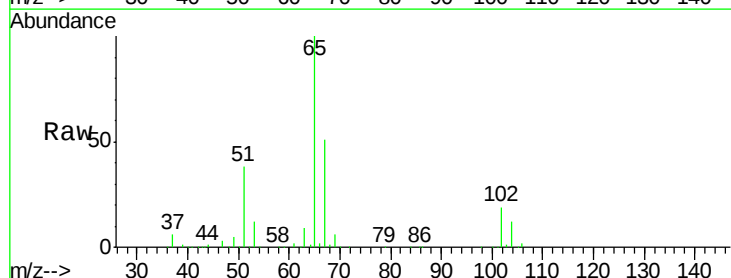
Acq: 05 Jun 2018 04:58

Tgt Ion: 65 Resp: 170120

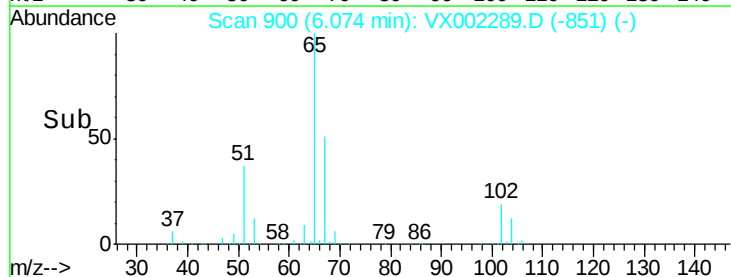
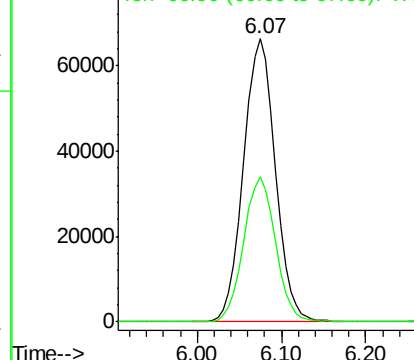
Ion Ratio Lower Upper

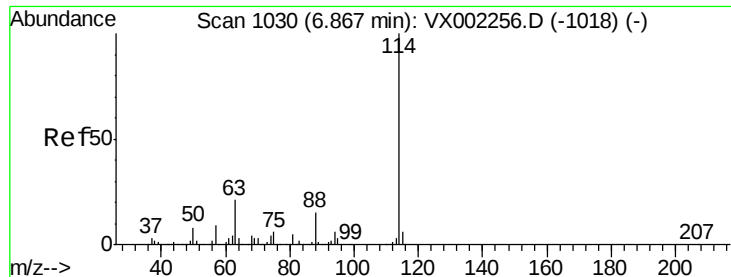
65 100

67 51.1 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002289.D

Acq: 05 Jun 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

SS052MW750-180531

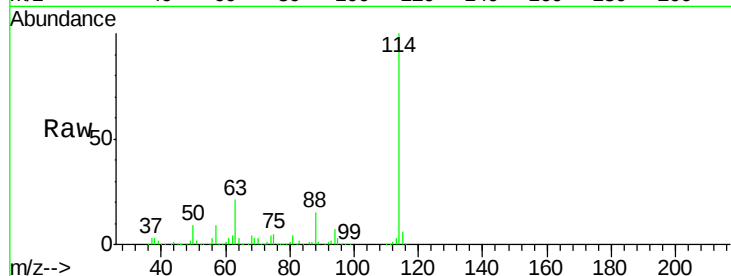
Tot Ion:114 Resp: 353002

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.4

88 15.5 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

200000

150000

100000

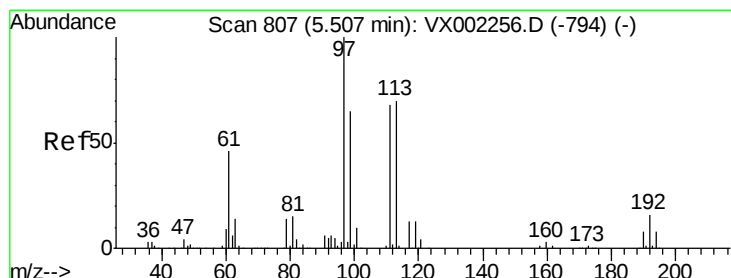
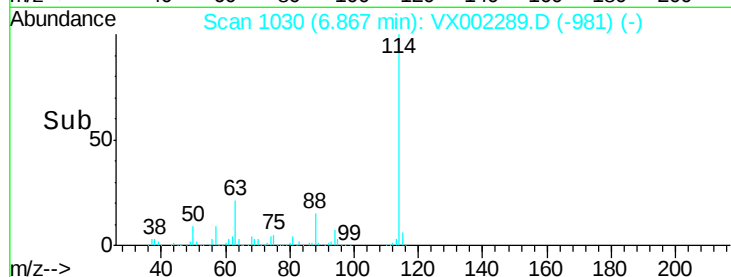
50000

0

6.87

6.70 6.80 6.90 7.00 7.10

Time-->



#35

Dibromofluoromethane

Concen: 44.99 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002289.D

Acq: 05 Jun 2018 04:58

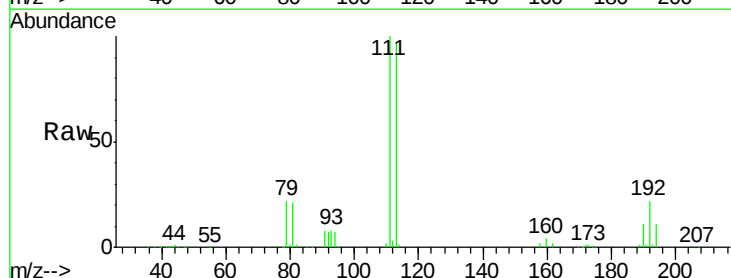
Tgt Ion:113 Resp: 124883

Ion Ratio Lower Upper

113 100

111 102.5 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

60000

50000

40000

30000

20000

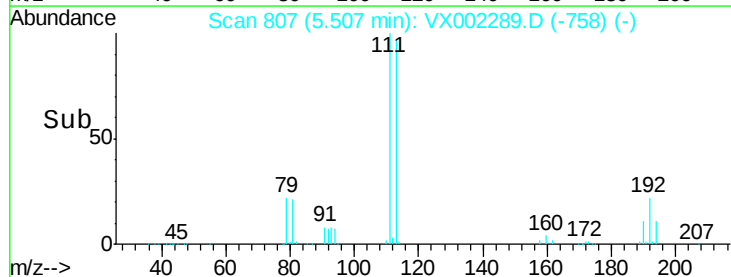
10000

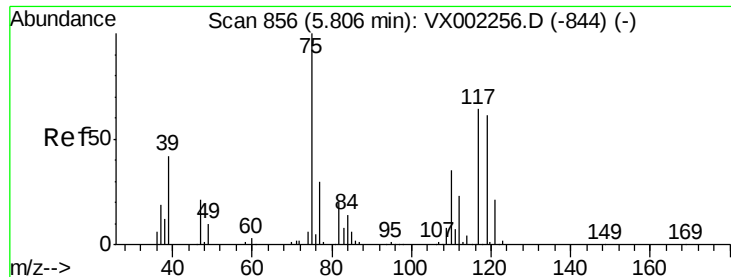
0

5.51

5.40 5.50 5.60

Time-->

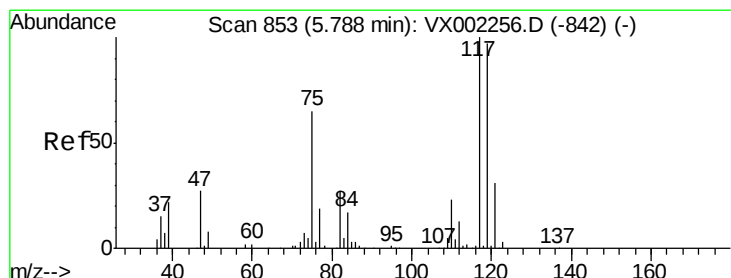
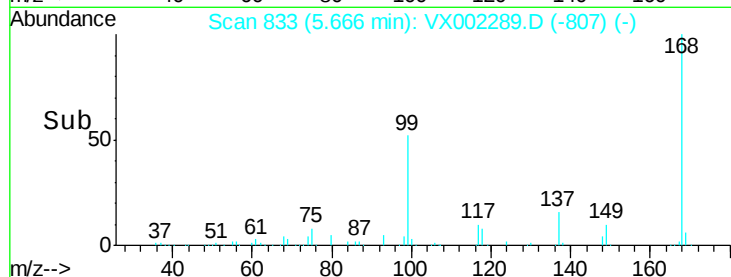
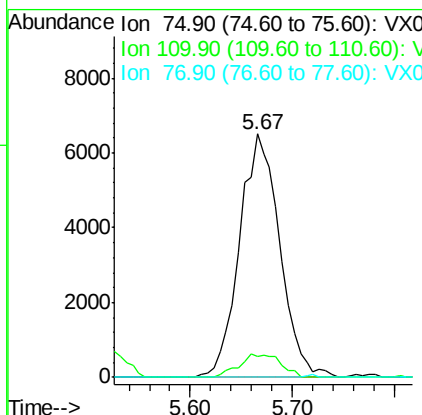
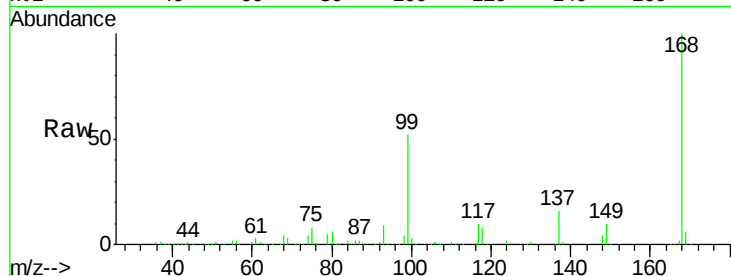




#36
 1,1-Dichloropropene
 Concen: 4.80 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002289.D
 Acq: 05 Jun 2018 04:58

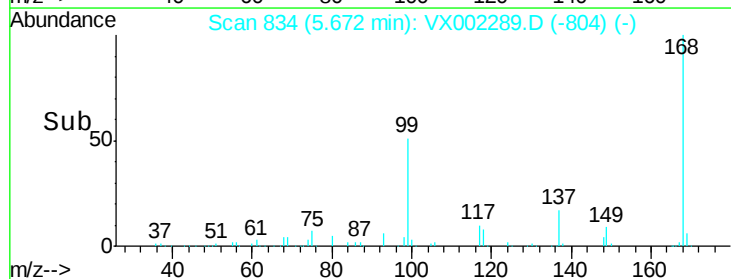
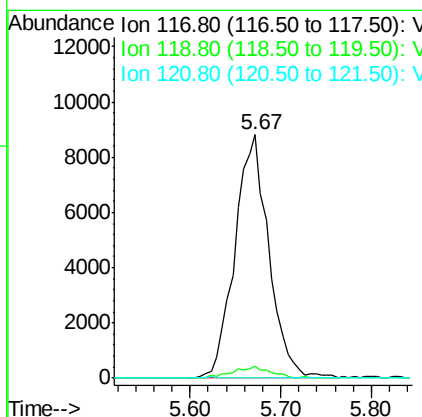
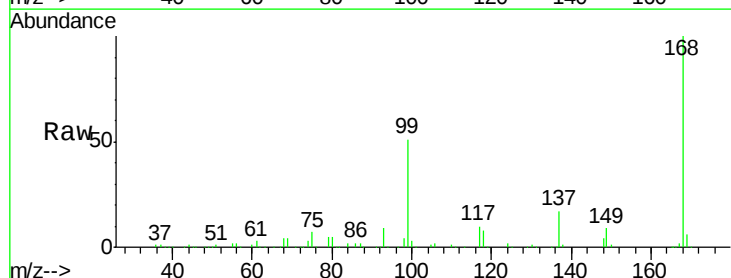
Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW750-180531

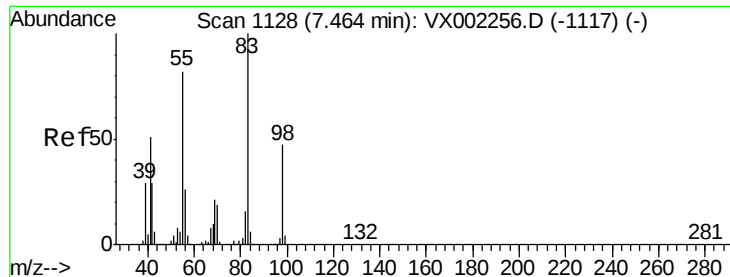
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.8	18.1	54.4#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.90 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002289.D
 Acq: 05 Jun 2018 04:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	77.4	116.0#
121	0.0	24.4	36.6#





#39

Methylcyclohexane

Concen: 0.28 ug/l

RT: 7.45 min Scan# 1125

Delta R.T. -0.02 min

Lab File: VX002289.D

Acq: 05 Jun 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

SS052MW750-180531

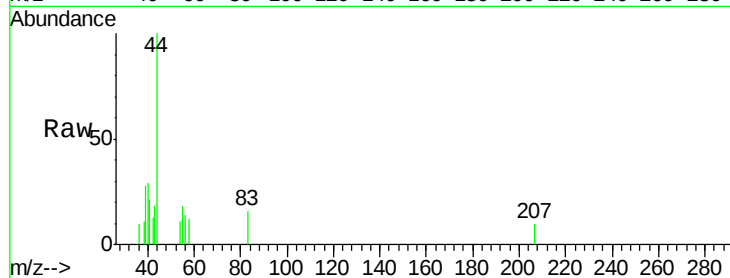
Tot Ion: 83 Resp: 81

Ion Ratio Lower Upper

83 100

55 17.9 65.4 98.0#

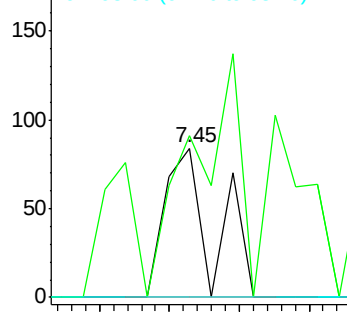
98 0.0 37.4 56.0#



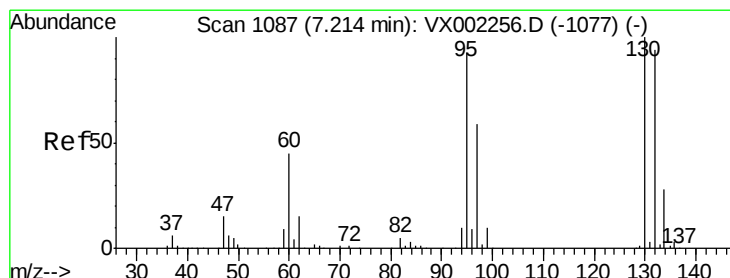
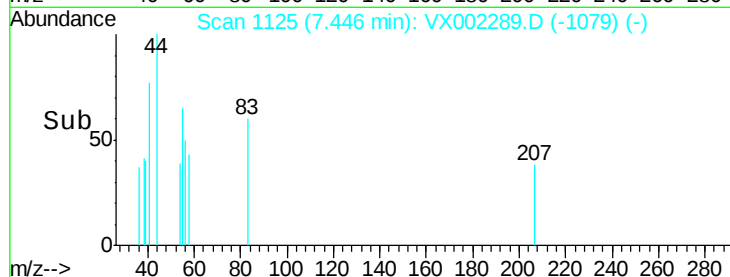
Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



Time-->



#44

Trichloroethene

Concen: 0.78 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX002289.D

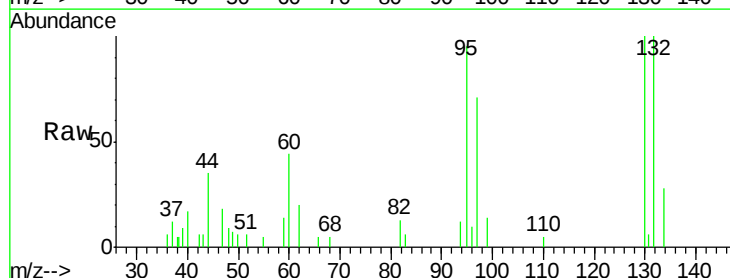
Acq: 05 Jun 2018 04:58

Tgt Ion:130 Resp: 2470

Ion Ratio Lower Upper

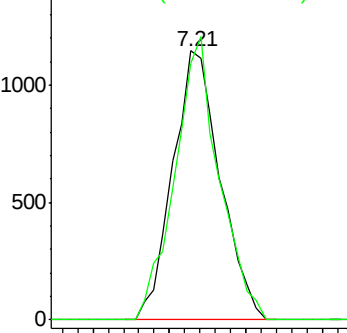
130 100

95 95.1 0.0 185.4

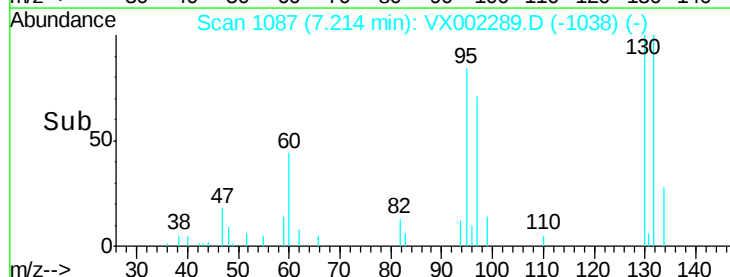


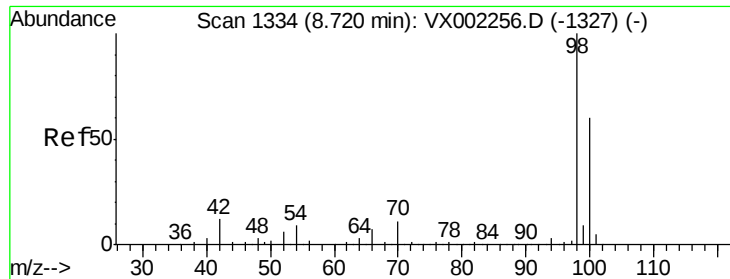
Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



Time-->





#50

Toluene-d8

Concen: 47.89 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002289.D

Acq: 05 Jun 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

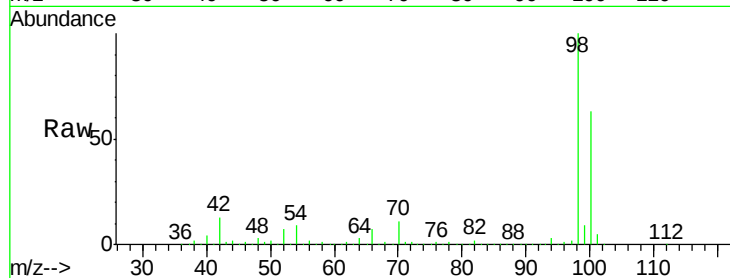
SS052MW750-180531

Tot Ion: 98 Resp: 509605

Ion Ratio Lower Upper

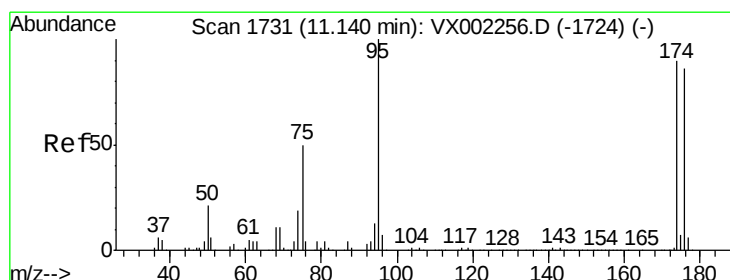
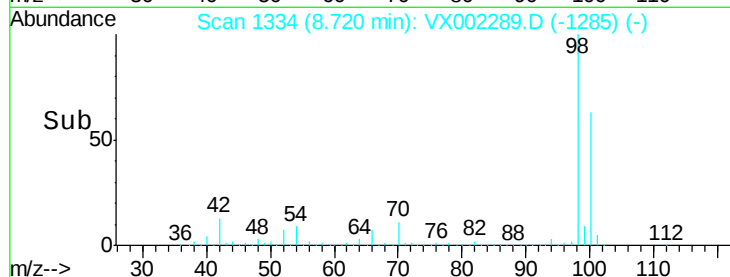
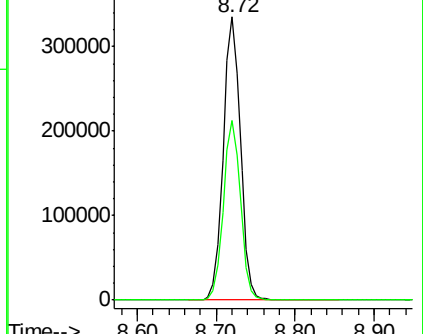
98 100

100 63.0 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 42.59 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002289.D

Acq: 05 Jun 2018 04:58

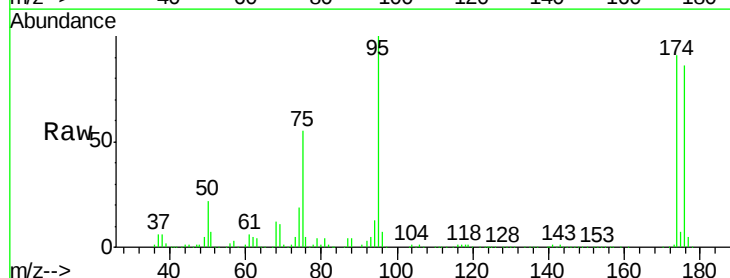
Tgt Ion: 95 Resp: 174762

Ion Ratio Lower Upper

95 100

174 93.6 0.0 187.4

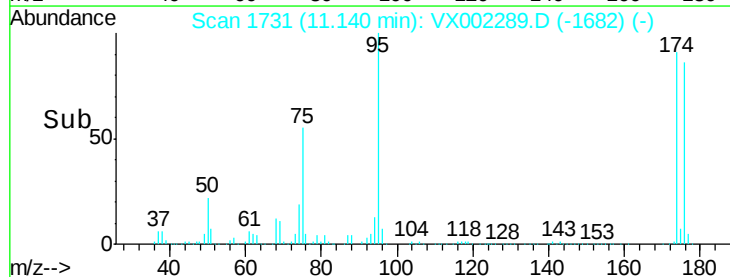
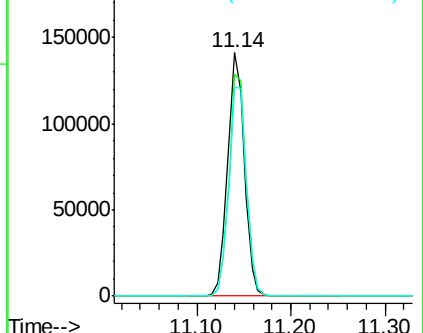
176 90.2 0.0 181.0

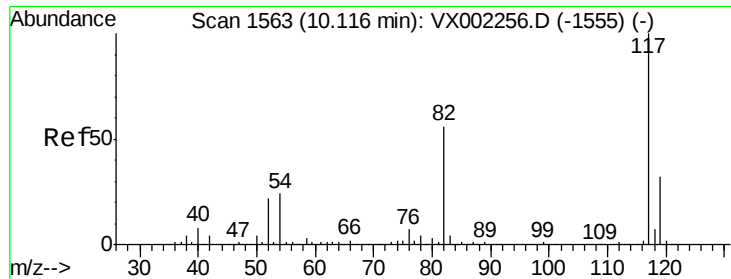


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

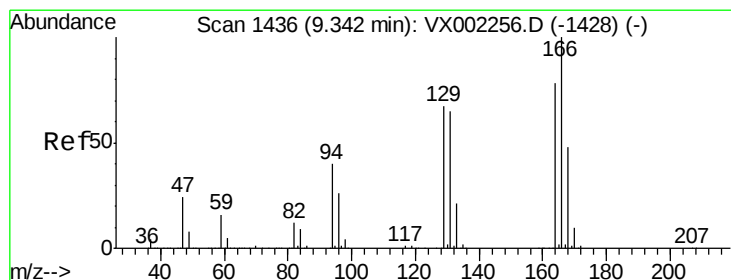
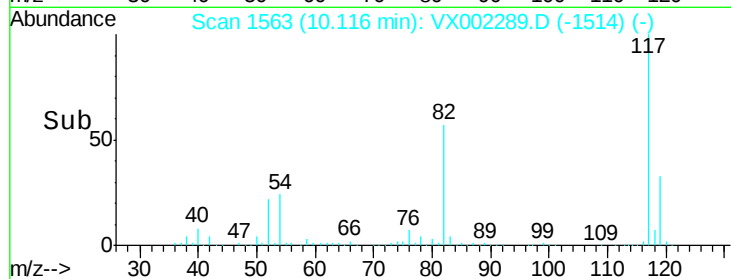
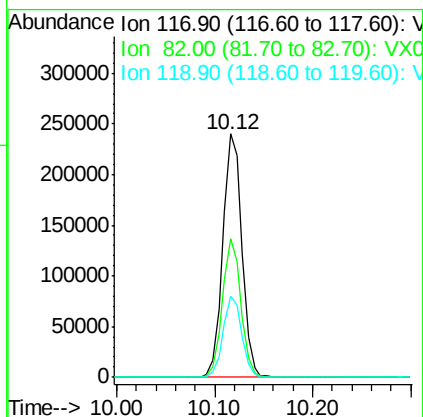
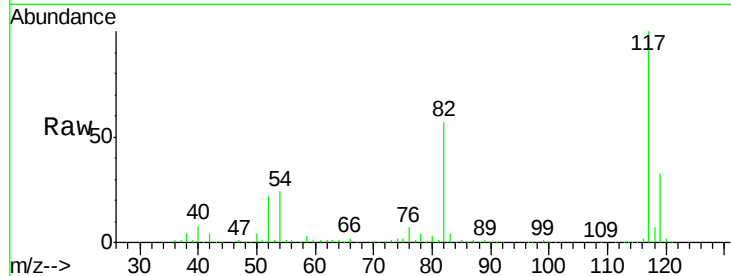




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002289.D
Acq: 05 Jun 2018 04:58

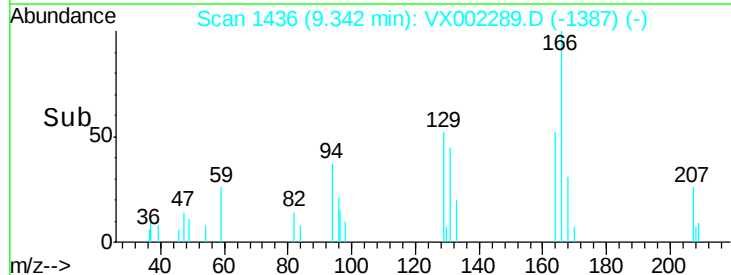
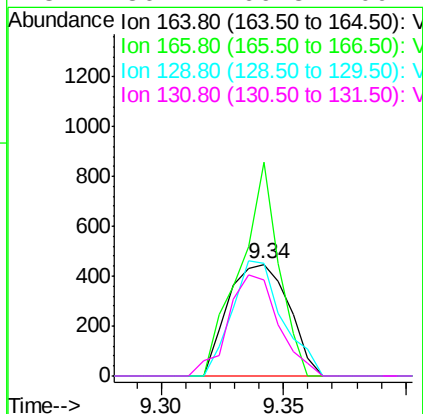
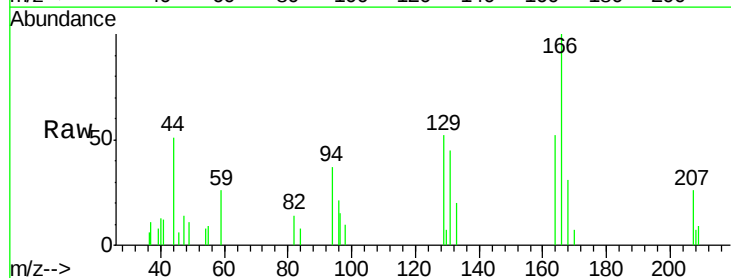
Instrument :
MSVOA_X
ClientSampleId :
SS052MW750-180531

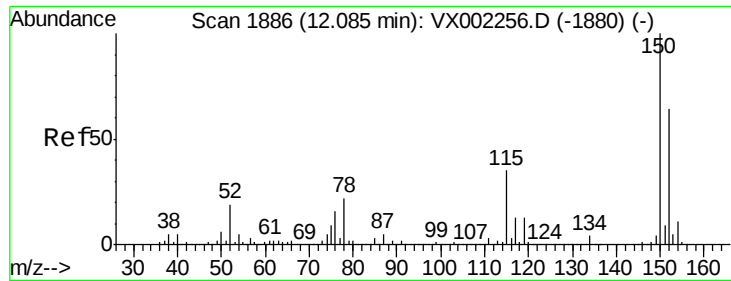
Tot Ion:117 Resp: 324723
Ion Ratio Lower Upper
117 100
82 56.9 45.0 67.4
119 33.2 25.8 38.6



#64
Tetrachloroethene
Concen: 0.23 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.00 min
Lab File: VX002289.D
Acq: 05 Jun 2018 04:58

Tgt Ion:164 Resp: 780
Ion Ratio Lower Upper
164 100
166 191.1 102.9 154.3#
129 100.2 68.6 102.8
131 86.4 66.8 100.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002289.D

Acq: 05 Jun 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

SS052MW750-180531

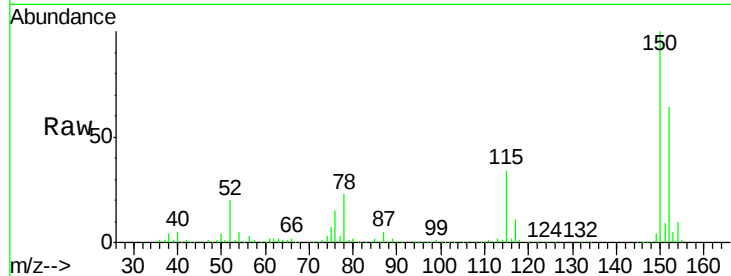
Tot Ion:152 Resp: 173750

Ion Ratio Lower Upper

152 100

115 55.8 40.1 120.2

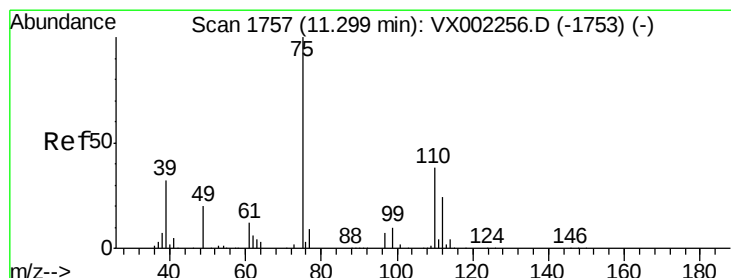
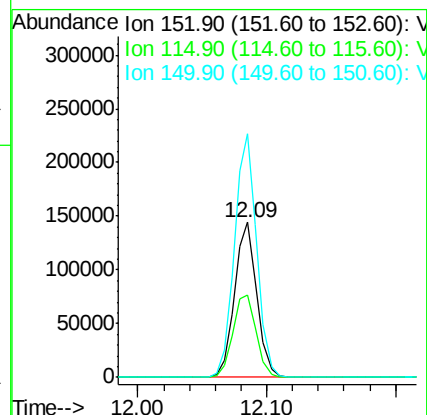
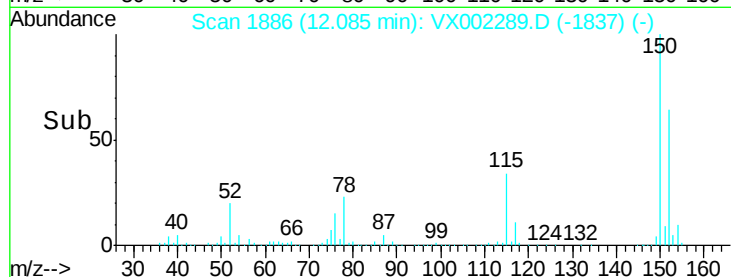
150 157.6 0.0 347.2



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: 24.57 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002289.D

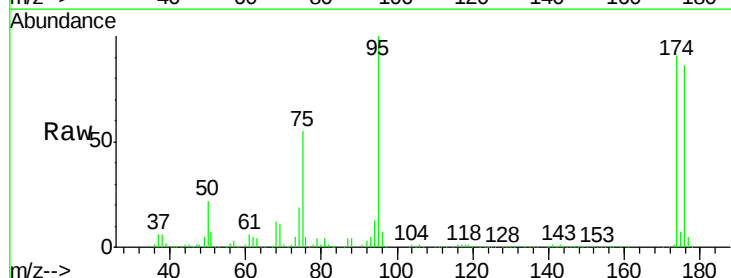
Acq: 05 Jun 2018 04:58

Tgt Ion: 75 Resp: 93688

Ion Ratio Lower Upper

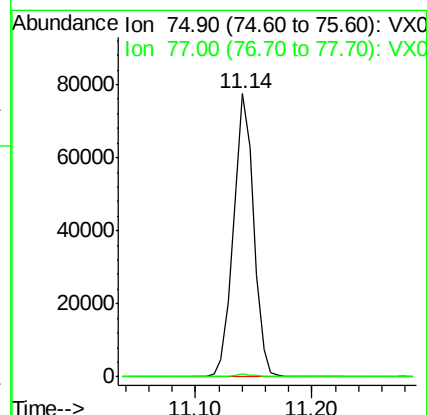
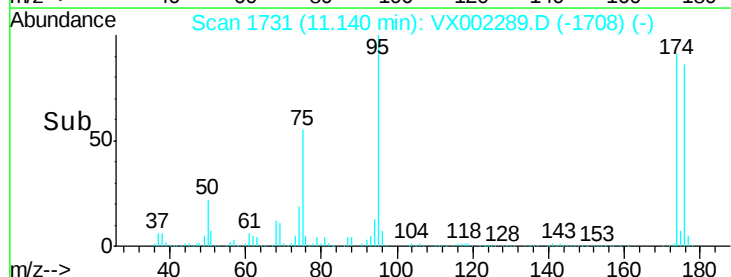
75 100

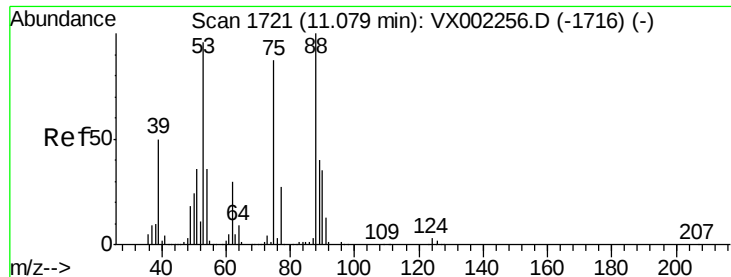
77 1.1 22.8 68.3#



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: 86.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002289.D

Acq: 05 Jun 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

SS052MW750-180531

Tot Ion: 75 Resp: 93688

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

