

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004105.D
 Acq On : 16 Aug 2018 06:40
 Operator : JC/MD
 Sample : J4495-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW504-180814

Quant Time: Aug 16 07:20:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	257446	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	401198	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	376211	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	202070	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	193532	53.35	ug/l	0.00
Spiked Amount			Recovery	=	106.70%	
35) Dibromofluoromethane	5.51	113	156450	52.10	ug/l	0.00
Spiked Amount			Recovery	=	104.20%	
50) Toluene-d8	8.72	98	572535	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	
62) 4-Bromofluorobenzene	11.14	95	192365	43.57	ug/l	0.00
Spiked Amount			Recovery	=	87.14%	

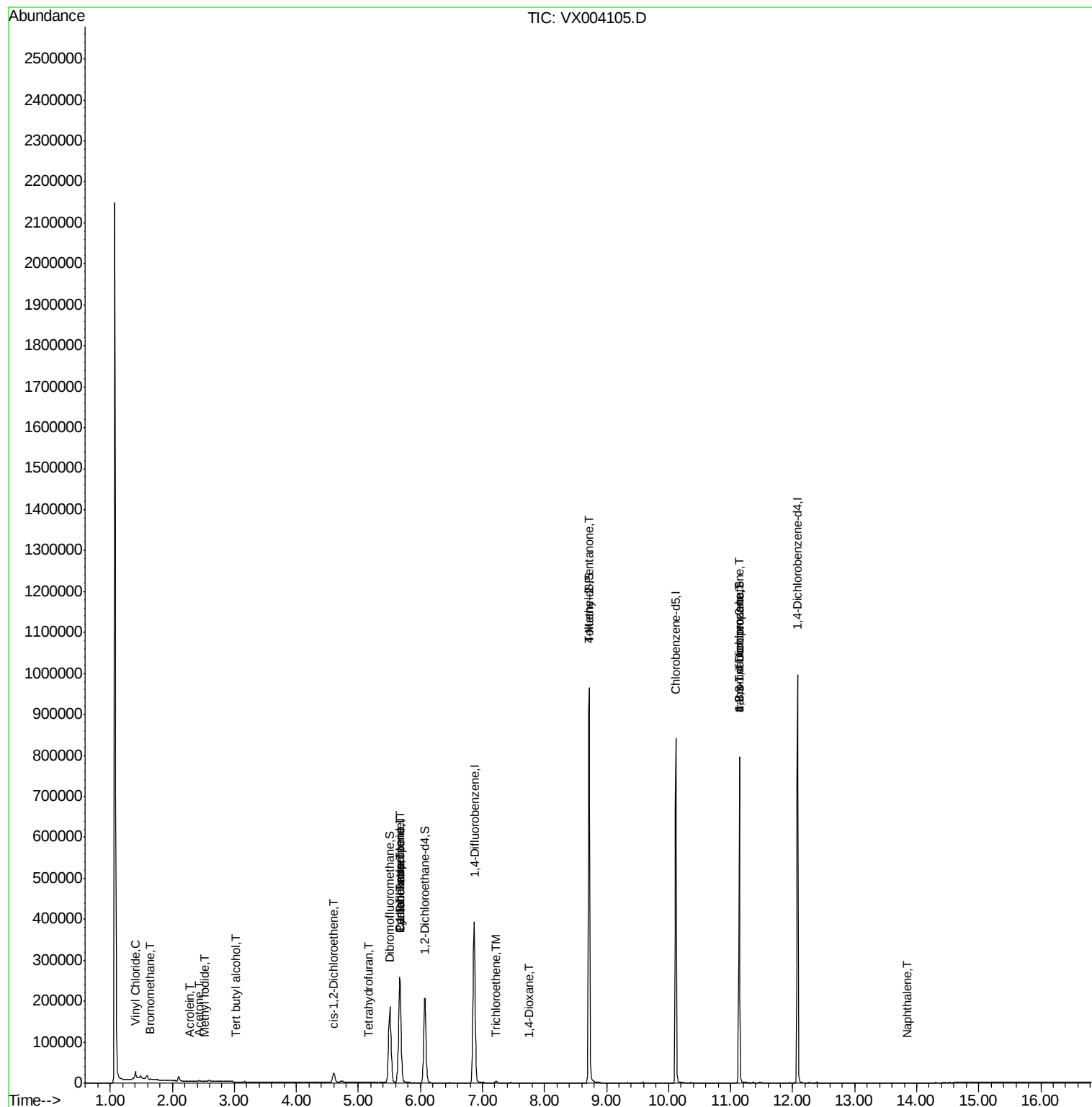
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	10813	3.25	ug/l #	86
5) Bromomethane	1.65	94	743	0.26	ug/l #	79
6) Chloroethane	1.74	64	940	Below Cal	#	70
10) Methyl Iodide	2.52	142	361	5.11	ug/l #	79
11) Tert butyl alcohol	3.03	59	517	0.71	ug/l #	73
13) Acrolein	2.29	56	45	11.04	ug/l #	1
16) Acetone	2.44	43	2624	1.39	ug/l	90
20) Methylene Chloride	2.86	84	150	Below Cal	#	52
27) cis-1,2-Dichloroethene	4.60	96	14875	4.30	ug/l	95
29) Tetrahydrofuran	5.17	42	1434	0.91	ug/l	93
31) Cyclohexane	5.66	56	5058	1.01	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18066	3.96	ug/l #	49
38) Carbon Tetrachloride	5.67	117	23093	5.21	ug/l #	15
44) Trichloroethene	7.22	130	1570	0.42	ug/l	96
49) 1,4-Dioxane	7.76	88	19	0.23	ug/l #	24
51) 4-Methyl-2-Pentanone	8.71	43	2412	0.40	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	94064	23.21	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	94064	71.85	ug/l #	9
95) Naphthalene	13.83	128	258	1.16	ug/l #	69

(#) = 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. 0.00 min

Lab File: VX004105.D

Acq: 16 Aug 2018 06:40

Instrument :

MSVOA_X

ClientSampleId :

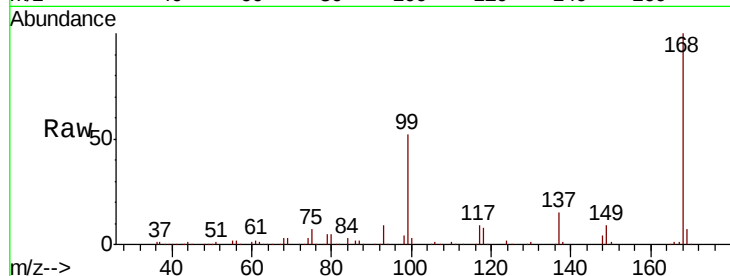
SS050MW504-180814

Tot Ion:168 Resp: 257446

Ion Ratio Lower Upper

168 100

99 52.1 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

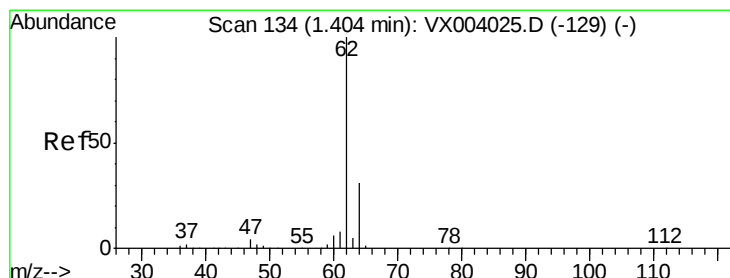
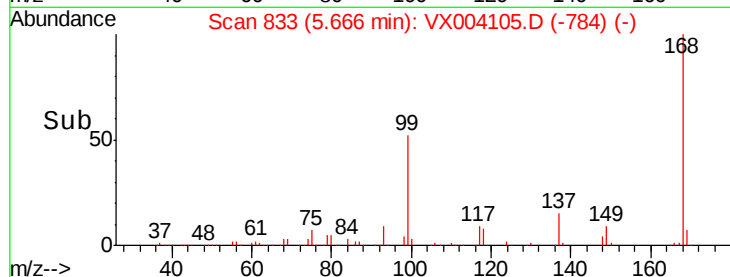
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 3.25 ug/l

RT: 1.41 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX004105.D

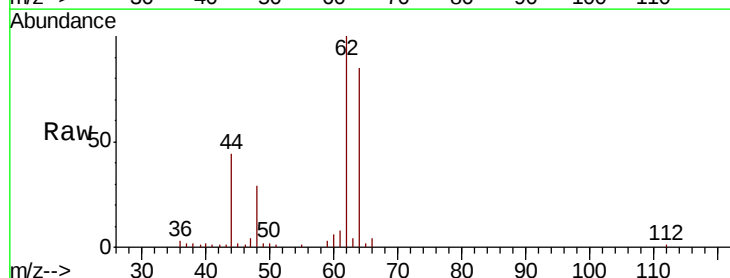
Acq: 16 Aug 2018 06:40

Tgt Ion: 62 Resp: 10813

Ion Ratio Lower Upper

62 100

64 40.6 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

10000

8000

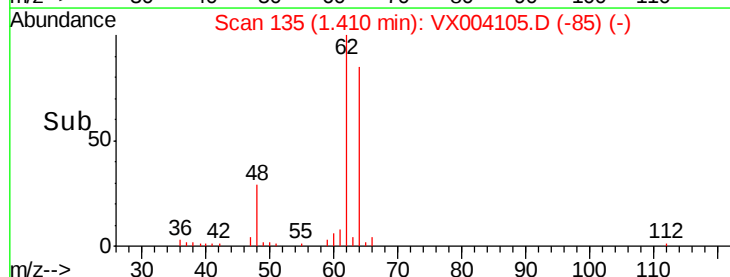
6000

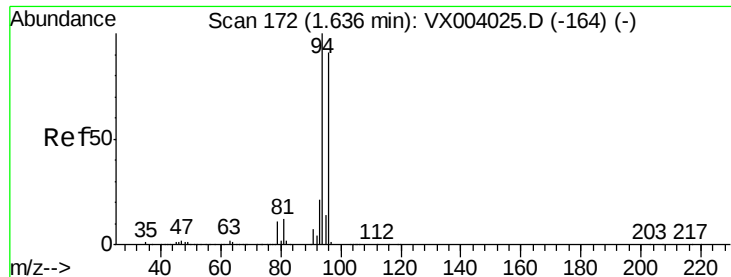
4000

2000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 0.26 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004105.D

Acq: 16 Aug 2018 06:40

Instrument :

MSVOA_X

ClientSampleId :

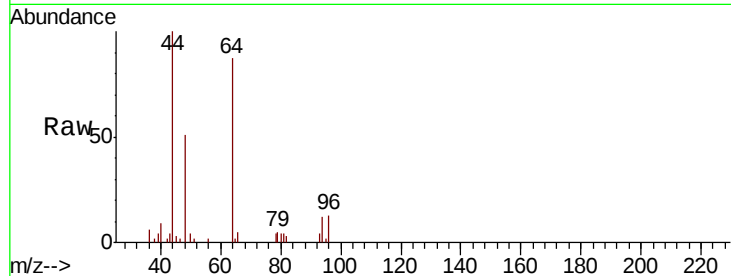
SS050MW504-180814

Tot Ion: 94 Resp: 743

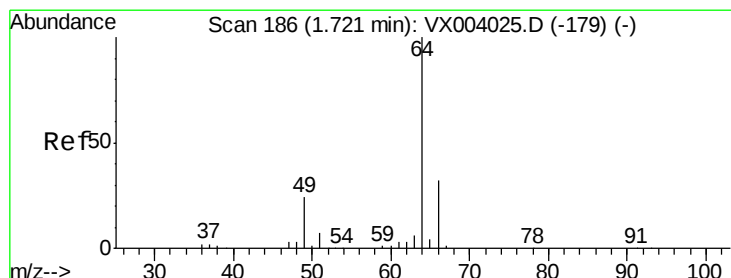
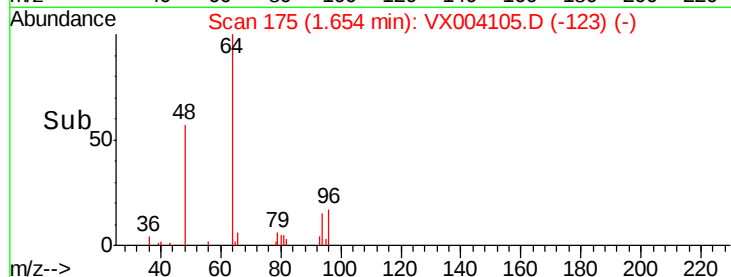
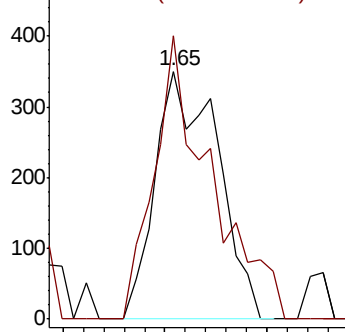
Ion Ratio Lower Upper

94 100

96 114.3 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 189

Delta R.T. 0.02 min

Lab File: VX004105.D

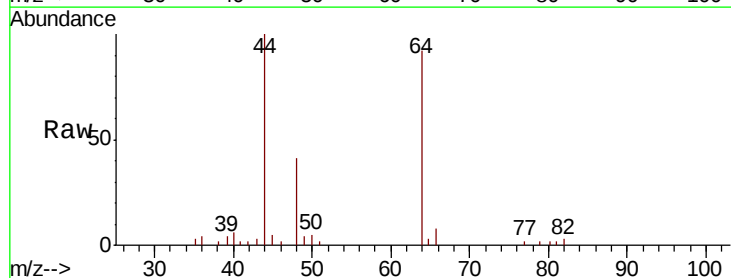
Acq: 16 Aug 2018 06:40

Tgt Ion: 64 Resp: 940

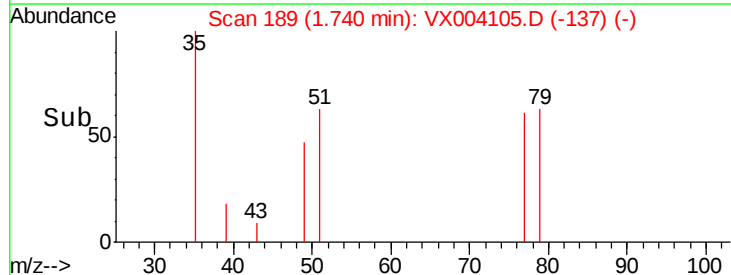
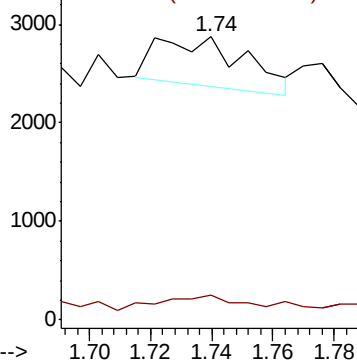
Ion Ratio Lower Upper

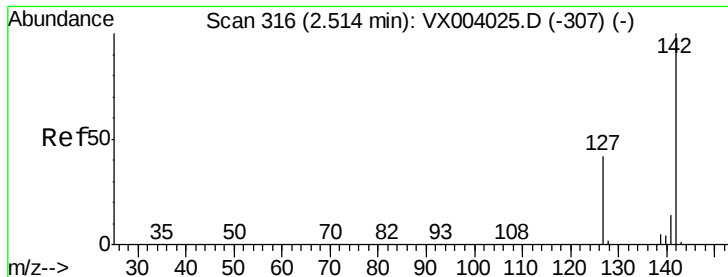
64 100

66 16.1 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

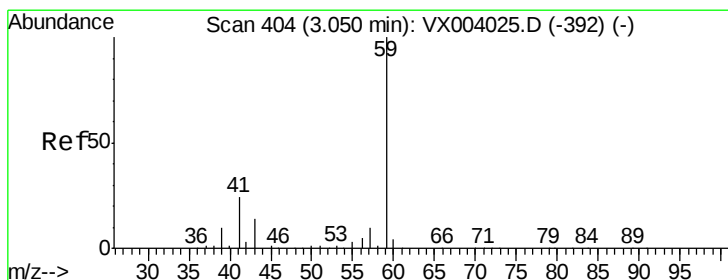
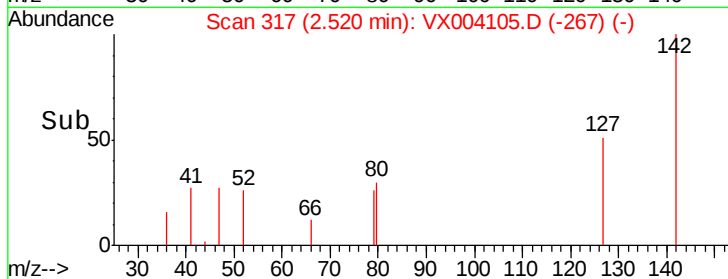
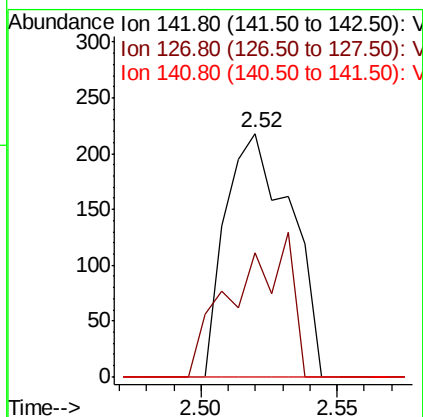
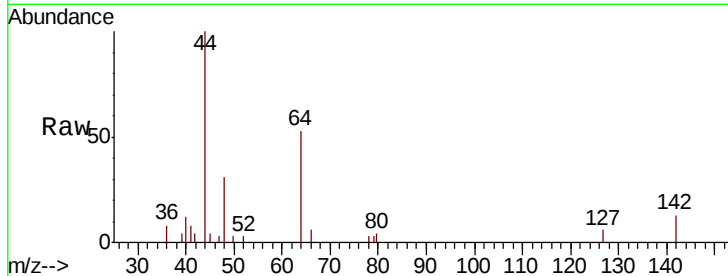




#10
Methvl Iodide
Concen: 5.11 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004105.D
Acq: 16 Aug 2018 06:40

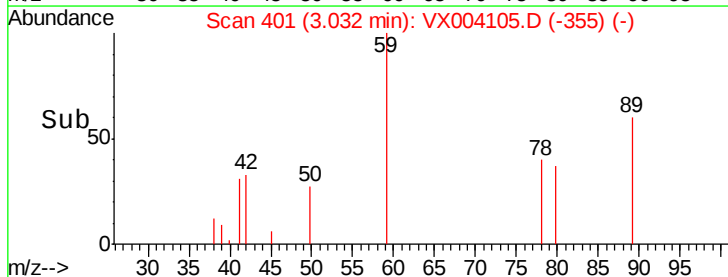
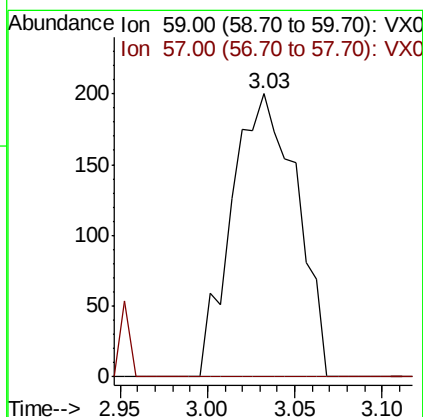
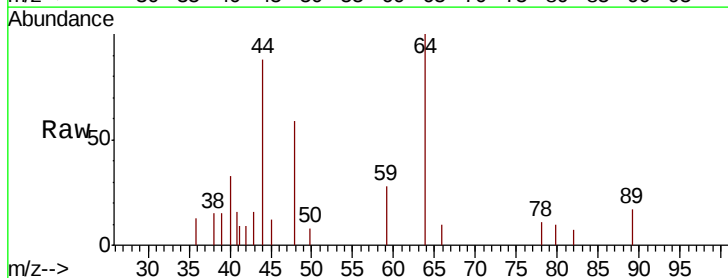
Instrument :
MSVOA_X
ClientSampleId :
SS050MW504-180814

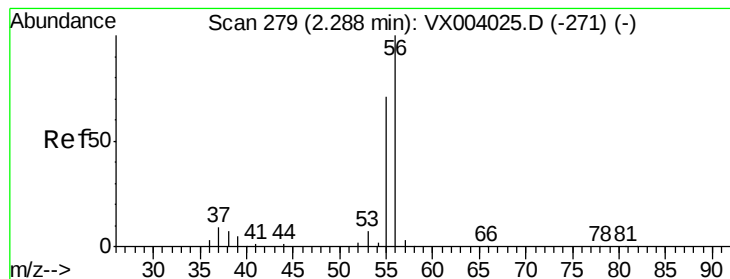
Tot Ion:142 Resp: 361
Ion Ratio Lower Upper
142 100
127 51.8 33.1 49.7#
141 0.0 11.1 16.7#



#11
Tert butyl alcohol
Concen: 0.71 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.02 min
Lab File: VX004105.D
Acq: 16 Aug 2018 06:40

Tgt Ion: 59 Resp: 517
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#13

Acrolein

Concen: 11.04 ug/l

RT: 2.29 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004105.D

Acq: 16 Aug 2018 06:40

Instrument :

MSVOA_X

ClientSampleId :

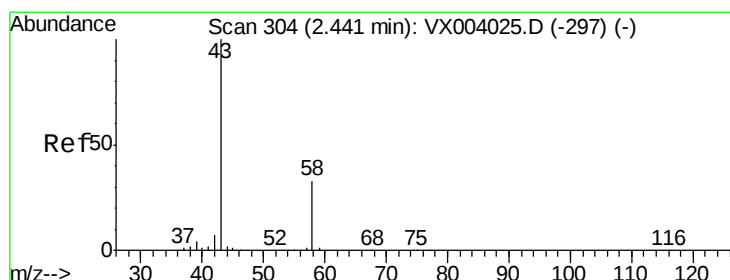
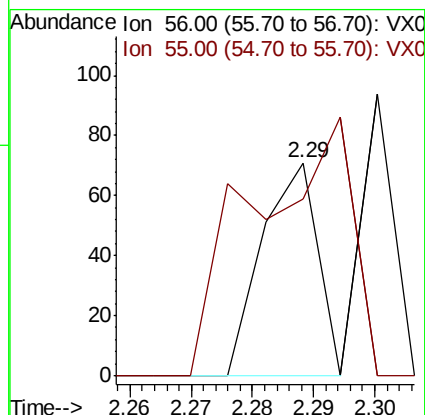
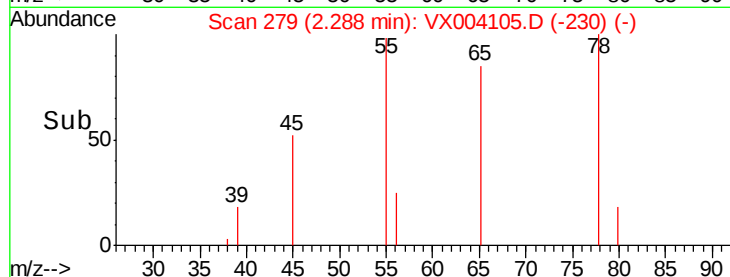
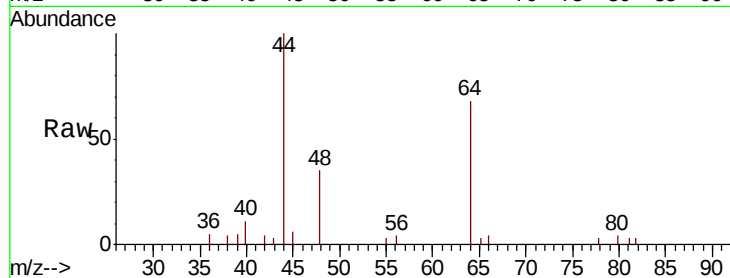
SS050MW504-180814

Tot Ion: 56 Resp: 45

Ion Ratio Lower Upper

56 100

55 211.1 56.1 84.1#



#16

Acetone

Concen: 1.39 ug/l

RT: 2.44 min Scan# 304

Delta R.T. 0.00 min

Lab File: VX004105.D

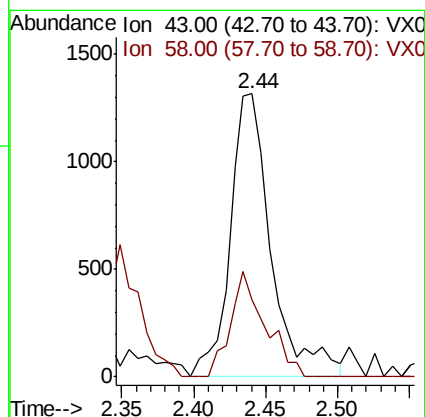
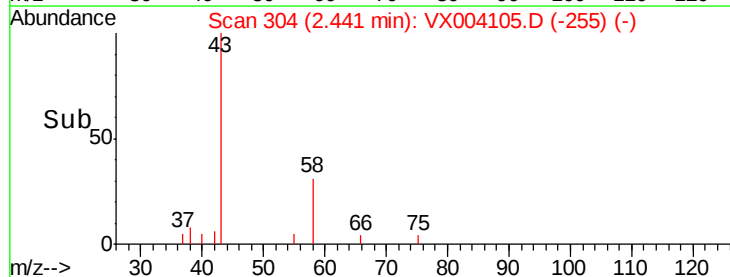
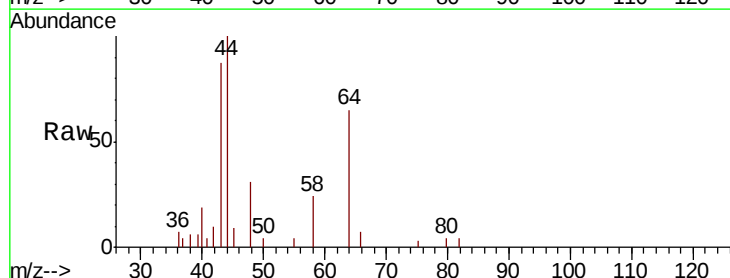
Acq: 16 Aug 2018 06:40

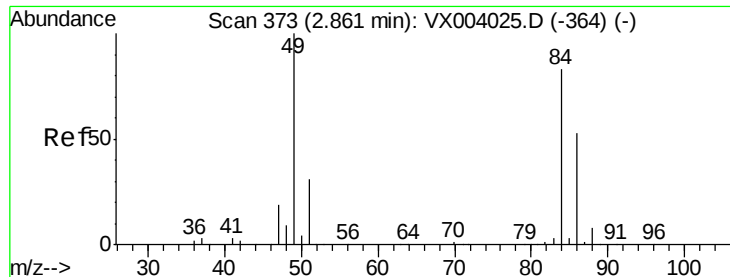
Tgt Ion: 43 Resp: 2624

Ion Ratio Lower Upper

43 100

58 27.4 26.4 39.6

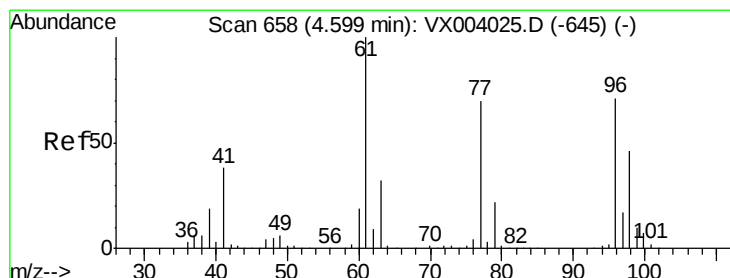
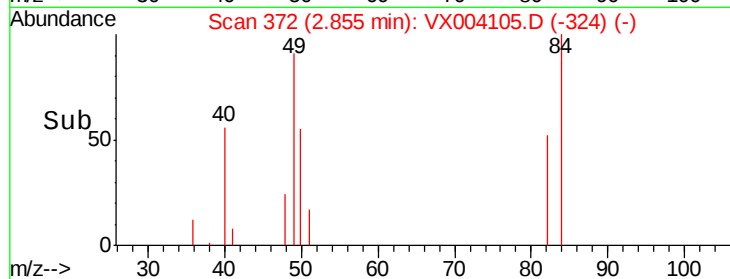
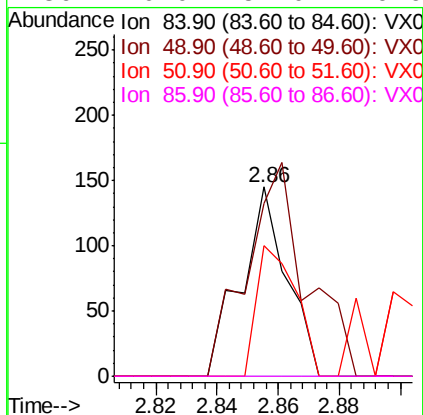
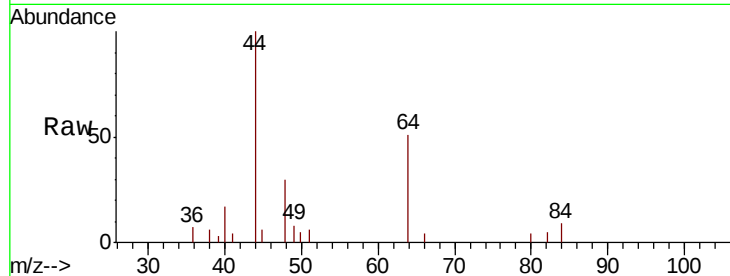




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX004105.D
Acq: 16 Aug 2018 06:40

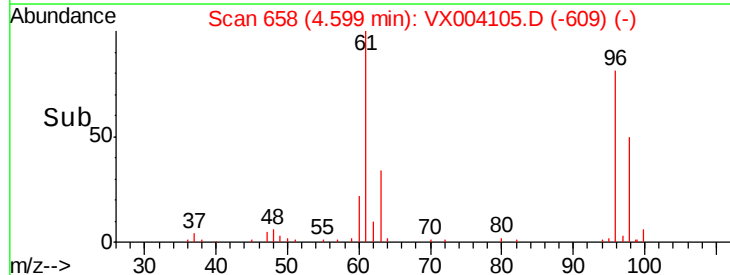
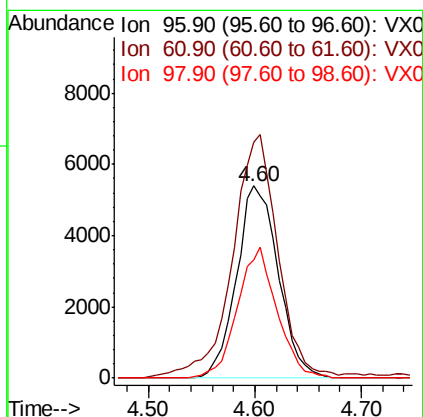
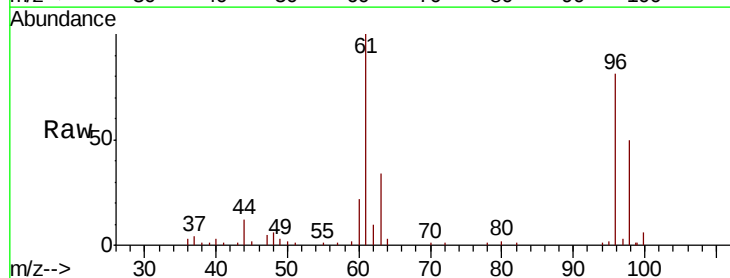
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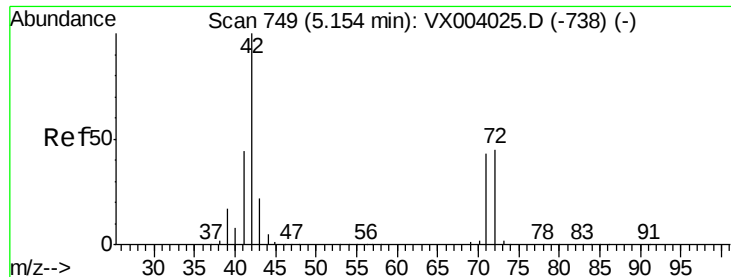
Tot Ion: 84 Resp: 150
Ion Ratio Lower Upper
84 100
49 91.0 98.9 148.3#
51 69.0 29.9 44.9#
86 0.0 51.0 76.6#



#27
cis-1,2-Dichloroethene
Concen: 4.30 ug/l
RT: 4.60 min Scan# 658
Delta R.T. 0.00 min
Lab File: VX004105.D
Acq: 16 Aug 2018 06:40

Tgt Ion: 96 Resp: 14875
Ion Ratio Lower Upper
96 100
61 138.1 0.0 293.0
98 64.2 0.0 131.8





#29

Tetrahydrofuran

Concen: 0.91 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.01 min

Lab File: VX004105.D

Acq: 16 Aug 2018 06:40

Instrument :

MSVOA_X

ClientSampleId :

SS050MW504-180814

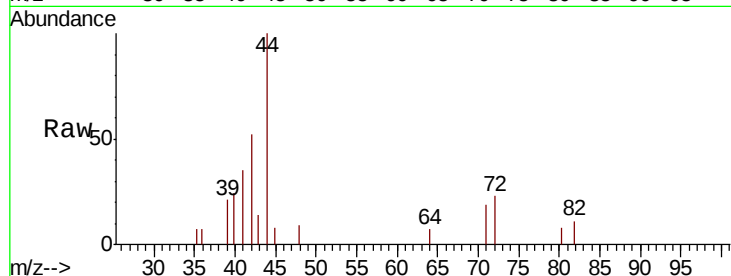
Tot Ion: 42 Resp: 1434

Ion Ratio Lower Upper

42 100

72 42.5 37.7 56.5

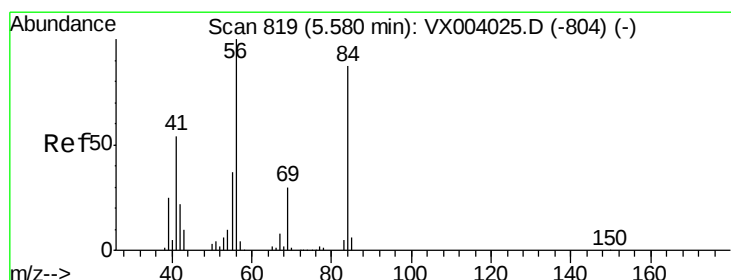
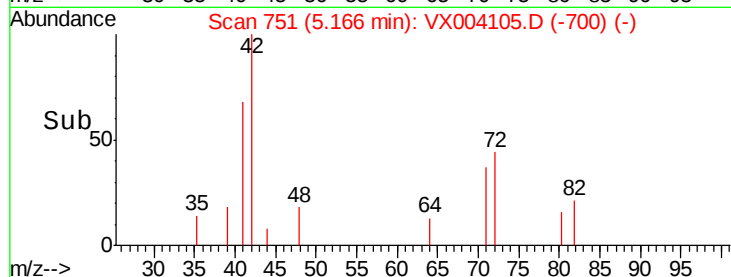
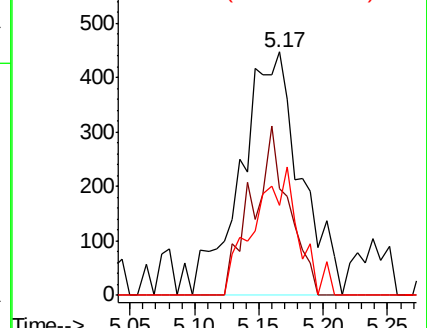
71 39.6 35.0 52.6



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



#31

Cyclohexane

Concen: 1.01 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX004105.D

Acq: 16 Aug 2018 06:40

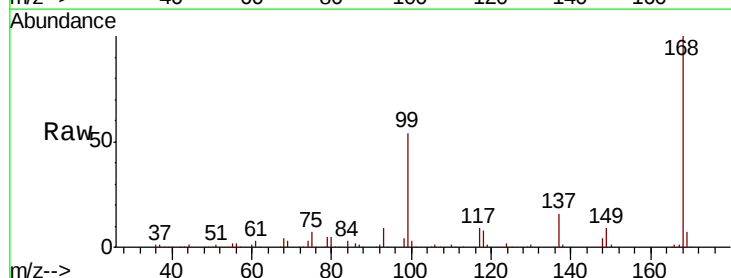
Tgt Ion: 56 Resp: 5058

Ion Ratio Lower Upper

56 100

69 169.3 24.9 37.3#

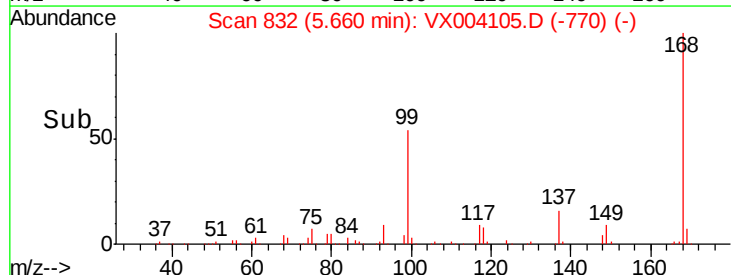
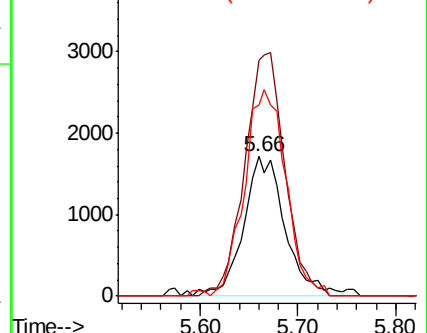
84 137.0 71.7 107.5#

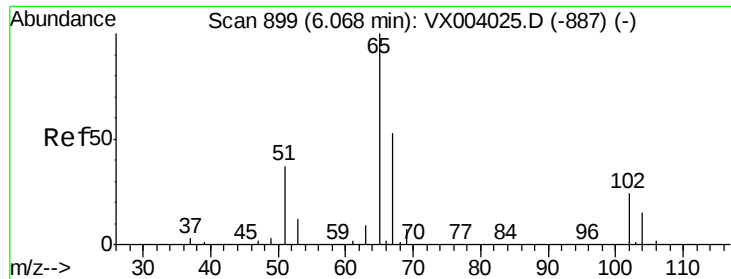


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

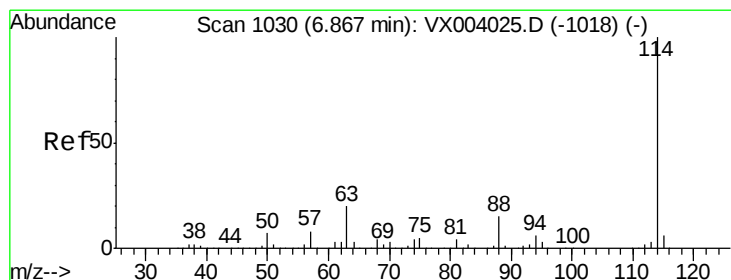
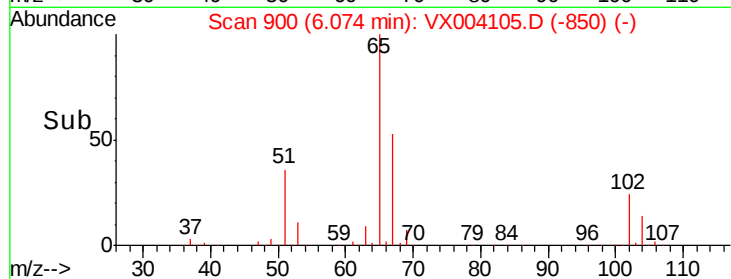
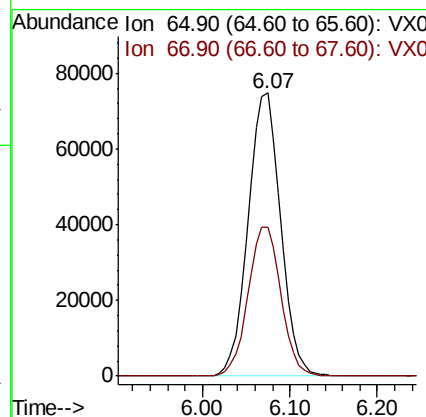
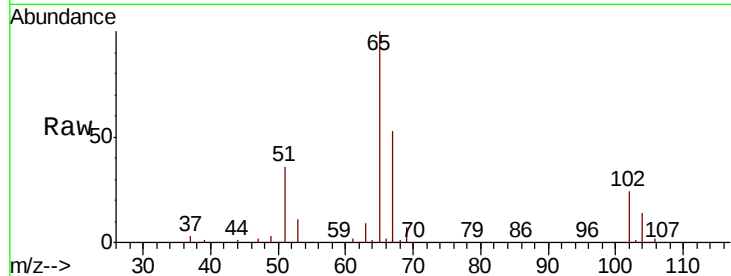




#33
 1,2-Dichloroethane-d4
 Concen: 53.35 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX004105.D
 Acq: 16 Aug 2018 06:40

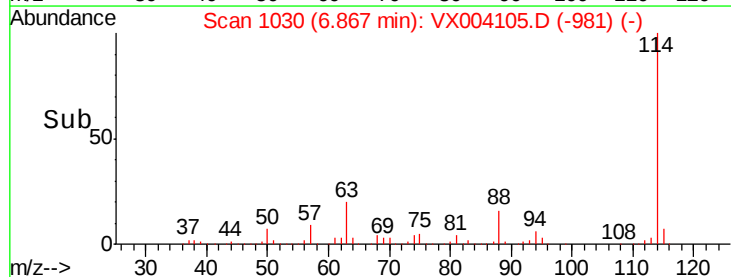
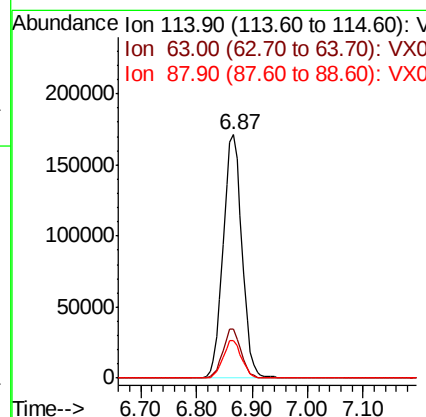
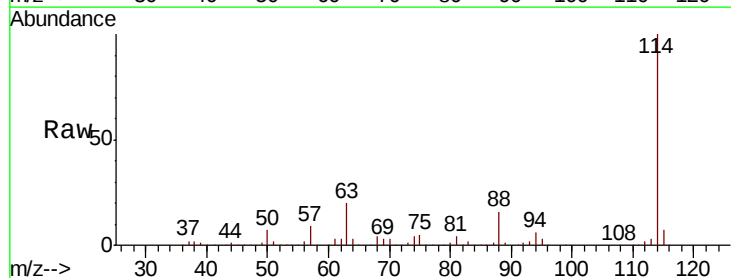
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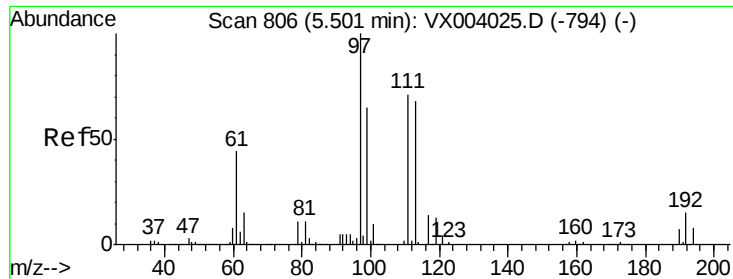
Tot Ion: 65 Resp: 193532
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX004105.D
 Acq: 16 Aug 2018 06:40

Tgt Ion: 114 Resp: 401198
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 39.0
 88 15.5 0.0 32.0





#35

Dibromofluoromethane

Concen: 52.10 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004105.D

Acq: 16 Aug 2018 06:40

Instrument :

MSVOA_X

ClientSampleId :

SS050MW504-180814

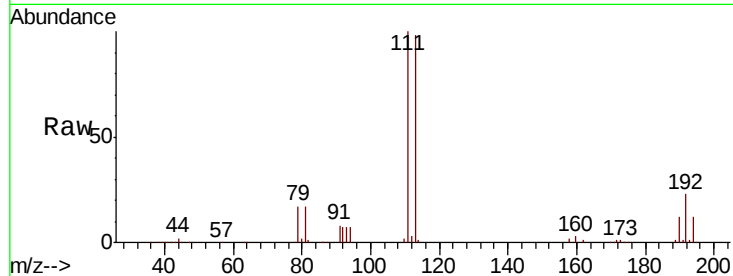
Tot Ion:113 Resp: 156450

Ion Ratio Lower Upper

113 100

111 102.6 82.0 123.0

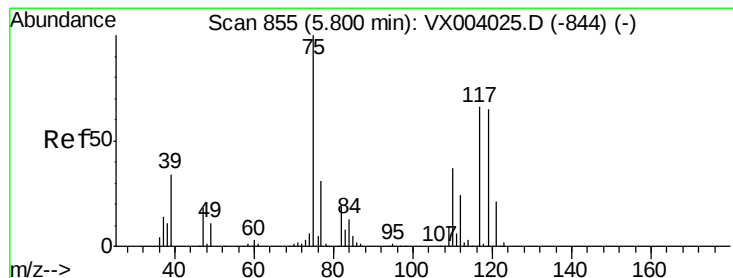
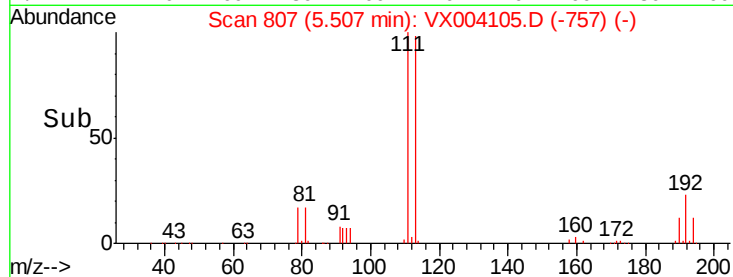
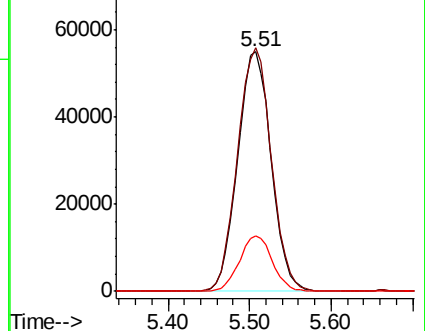
192 22.9 19.0 28.4



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: 3.96 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX004105.D

Acq: 16 Aug 2018 06:40

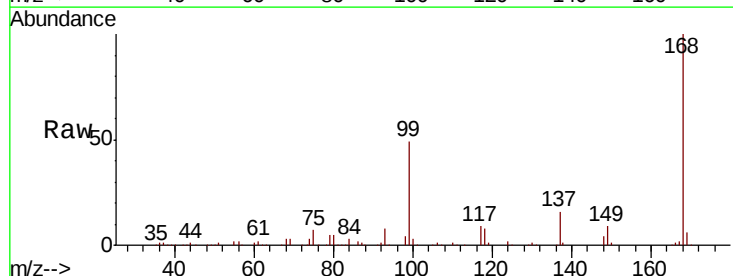
Tgt Ion: 75 Resp: 18066

Ion Ratio Lower Upper

75 100

110 9.5 18.2 54.6#

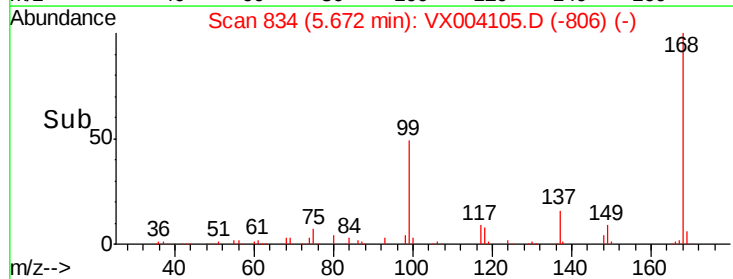
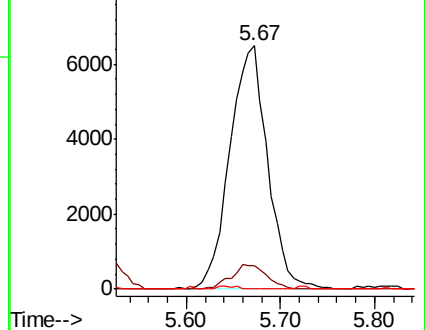
77 0.0 25.0 37.4#

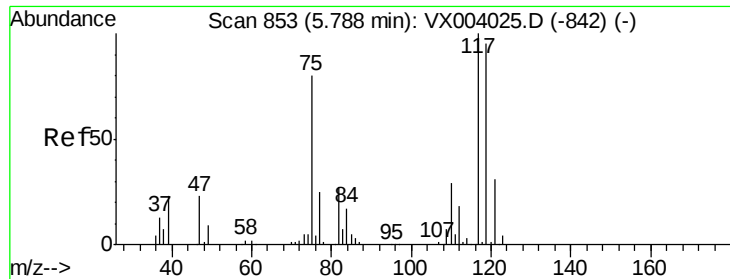


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

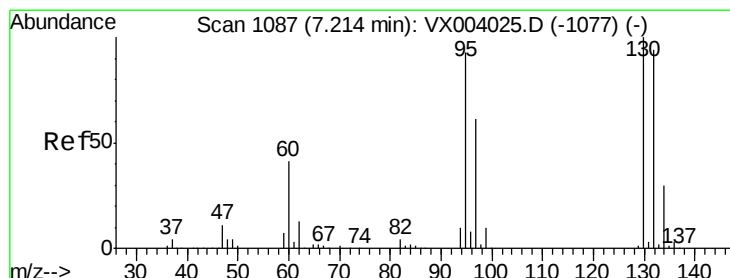
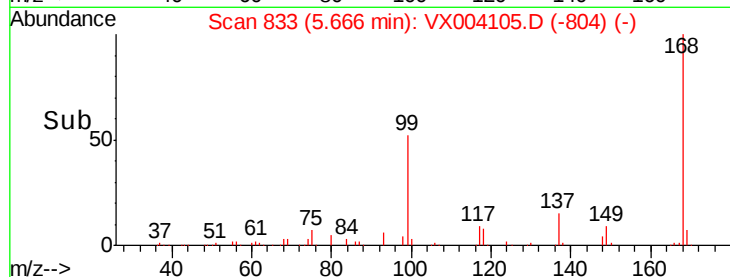
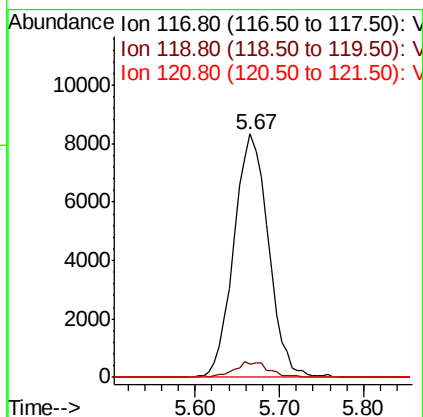
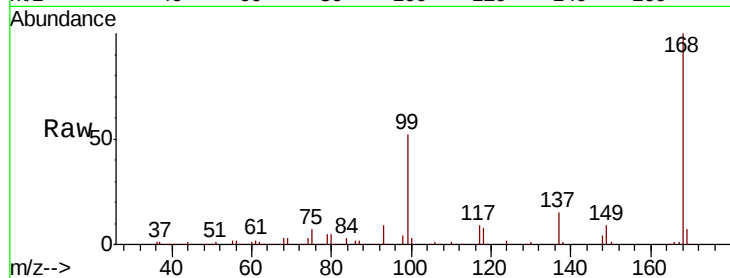




#38
 Carbon Tetrachloride
 Concen: 5.21 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX004105.D
 Acq: 16 Aug 2018 06:40

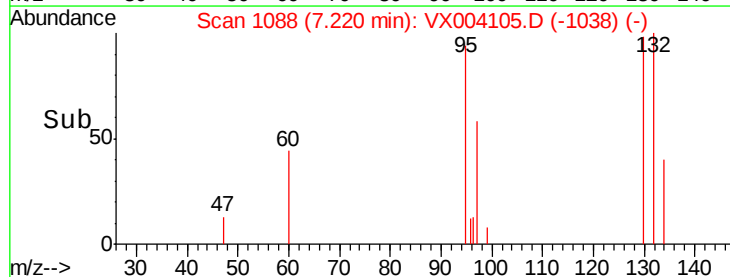
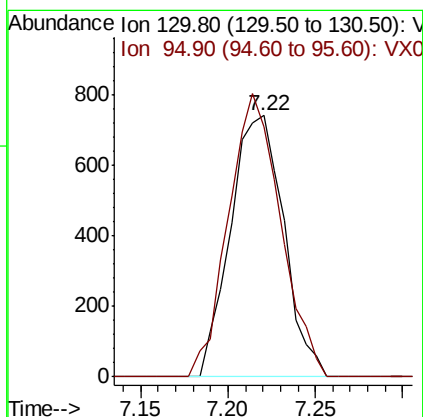
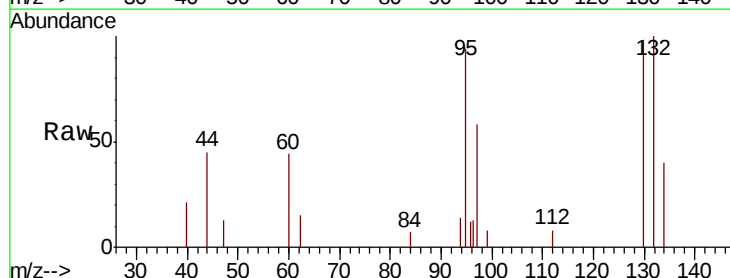
Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW504-180814

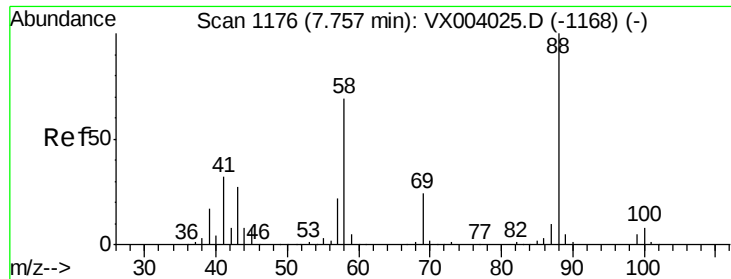
Tot Ion:117 Resp: 23093
 Ion Ratio Lower Upper
 117 100
 119 5.3 79.5 119.3#
 121 0.0 25.0 37.4#



#44
 Trichloroethene
 Concen: 0.42 ug/l
 RT: 7.22 min Scan# 1088
 Delta R.T. 0.01 min
 Lab File: VX004105.D
 Acq: 16 Aug 2018 06:40

Tgt Ion:130 Resp: 1570
 Ion Ratio Lower Upper
 130 100
 95 95.7 0.0 199.4

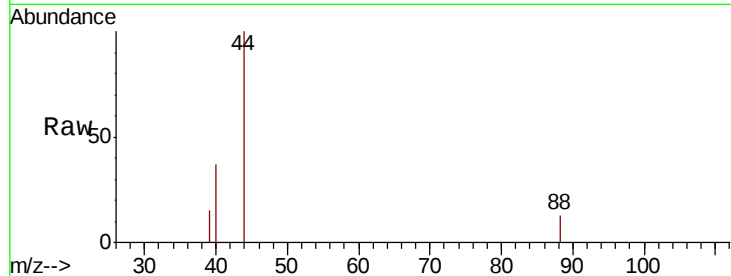




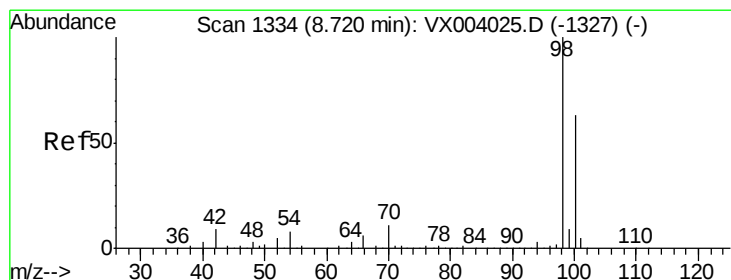
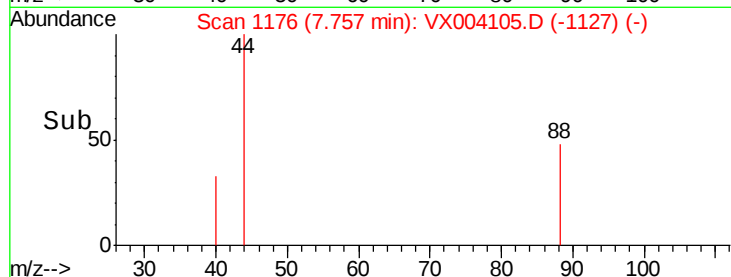
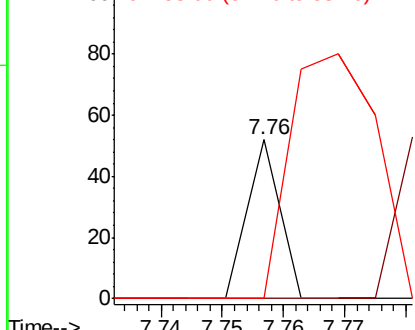
#49
1,4-Dioxane
Concen: 0.23 ug/l
RT: 7.76 min Scan# 1176
Delta R.T. 0.00 min
Lab File: VX004105.D
Acq: 16 Aug 2018 06:40

Instrument :
MSVOA_X
ClientSampleId :
SS050MW504-180814

Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 23.8 35.8#
58 0.0 55.4 83.0#

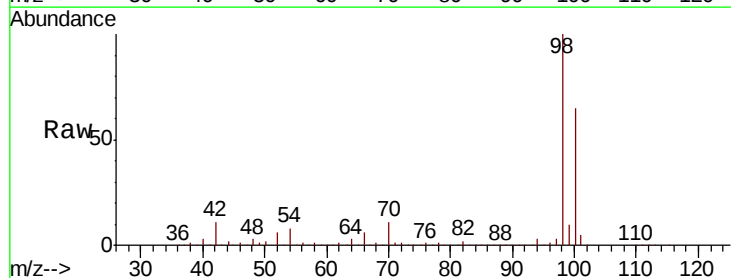


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

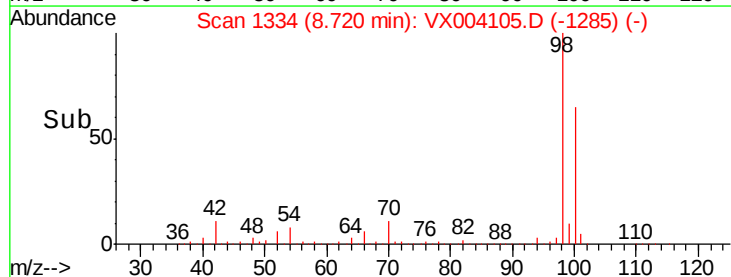
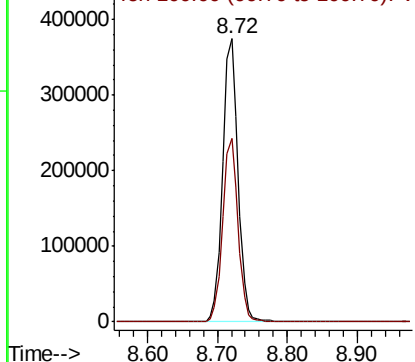


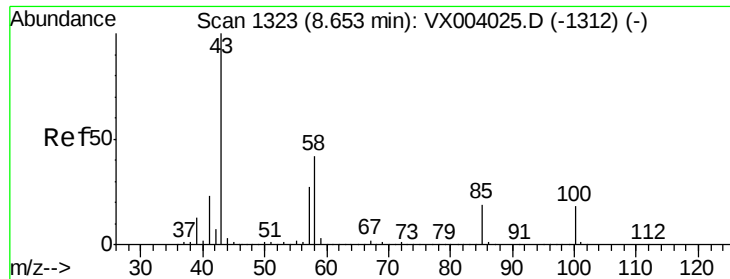
#50
Toluene-d8
Concen: 47.03 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX004105.D
Acq: 16 Aug 2018 06:40

Tgt Ion: 98 Resp: 572535
Ion Ratio Lower Upper
98 100
100 64.7 53.3 79.9



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





#51

4-Methyl-2-Pentanone

Concen: 0.40 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. 0.06 min

Lab File: VX004105.D

Acq: 16 Aug 2018 06:40

Instrument :

MSVOA_X

ClientSampleId :

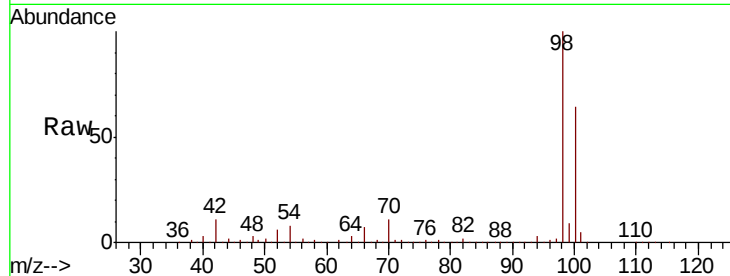
SS050MW504-180814

Tot Ion: 43 Resp: 2412

Ion Ratio Lower Upper

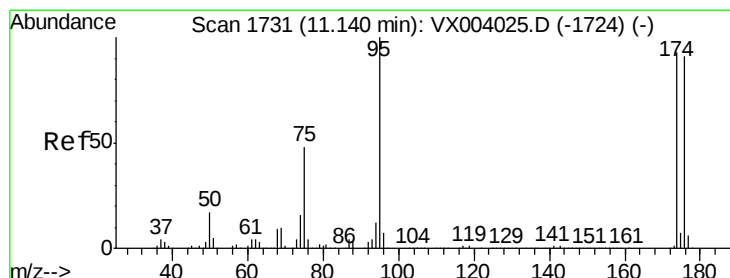
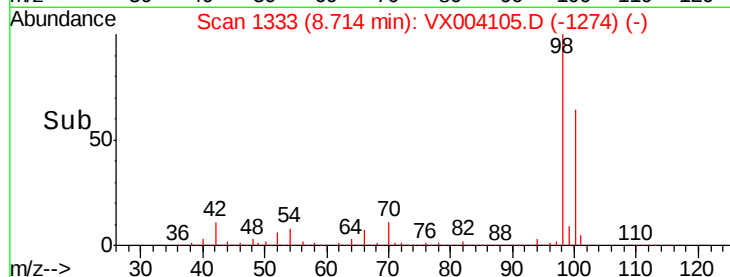
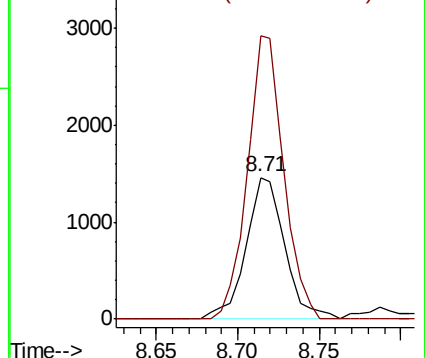
43 100

58 186.9 33.0 49.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 43.57 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX004105.D

Acq: 16 Aug 2018 06:40

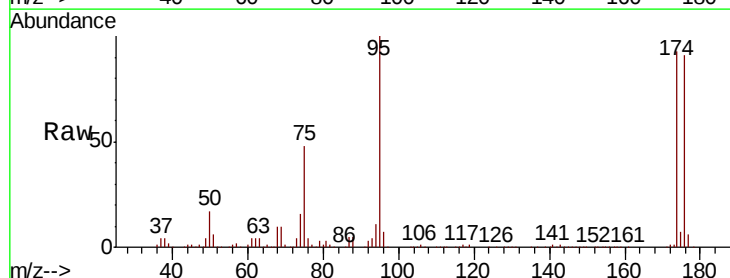
Tgt Ion: 95 Resp: 192365

Ion Ratio Lower Upper

95 100

174 92.4 0.0 182.8

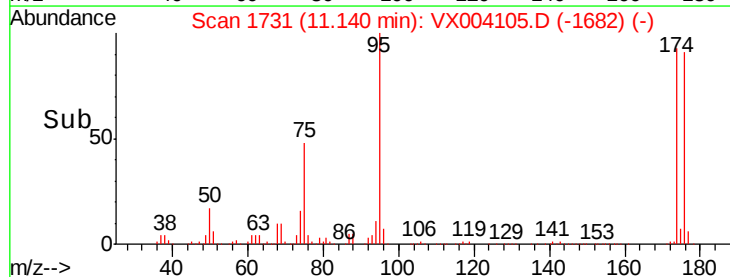
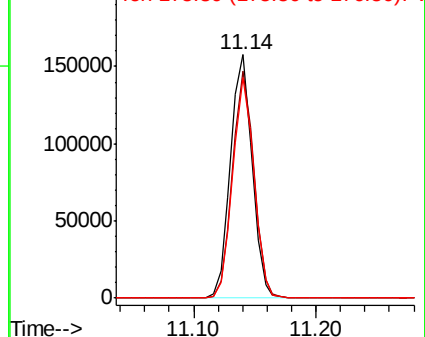
176 89.0 0.0 179.0

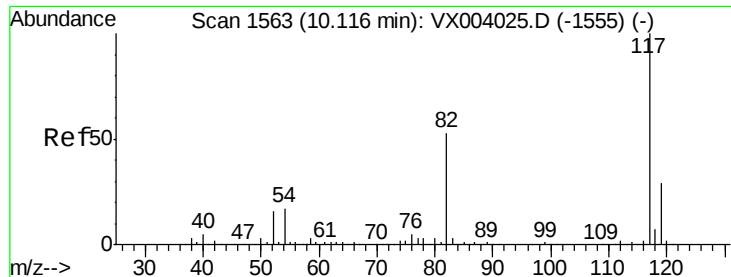


Abundance Ion 94.90 (94.60 to 95.60): VX0

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: VX004105.D

Acq: 16 Aug 2018 06:40

Instrument :

MSVOA_X

ClientSampleId :

SS050MW504-180814

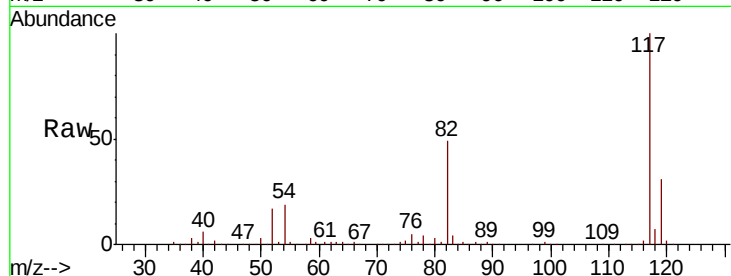
Tot Ion:117 Resp: 376211

Ion Ratio Lower Upper

117 100

82 49.5 45.4 68.0

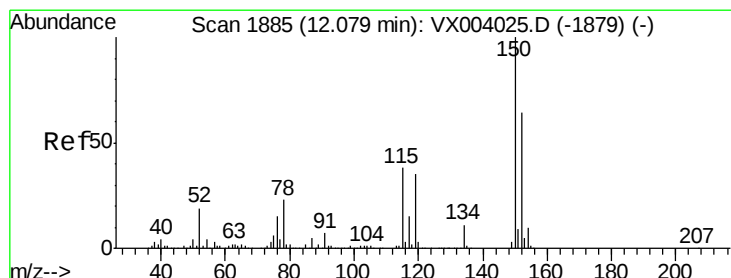
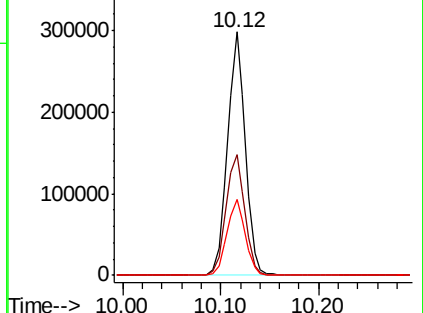
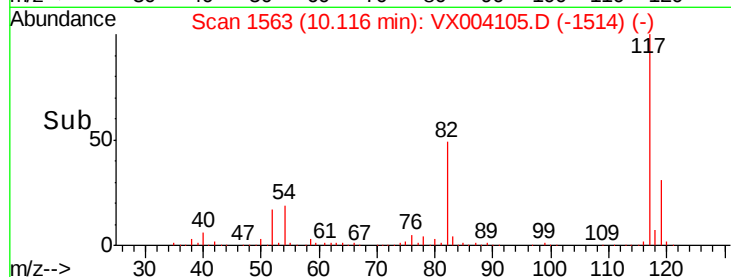
119 31.4 26.6 40.0



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: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX004105.D

Acq: 16 Aug 2018 06:40

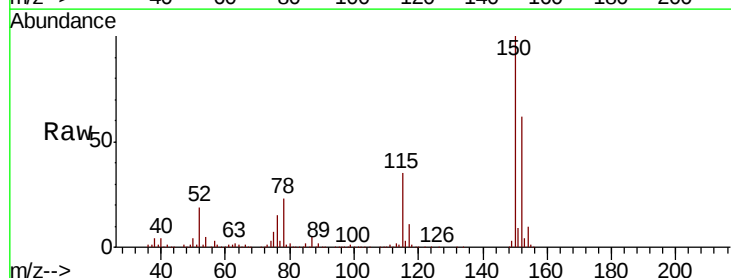
Tgt Ion:152 Resp: 202070

Ion Ratio Lower Upper

152 100

115 56.0 39.1 117.3

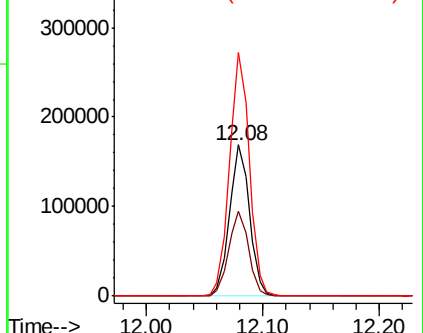
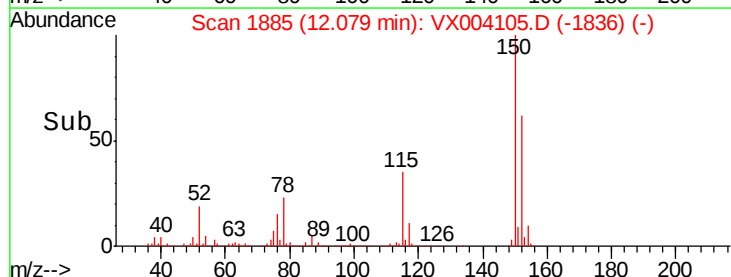
150 160.3 0.0 349.2

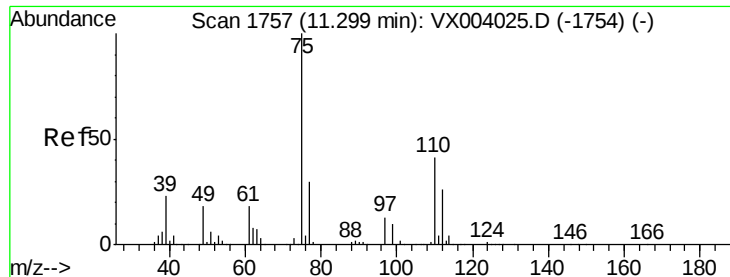


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

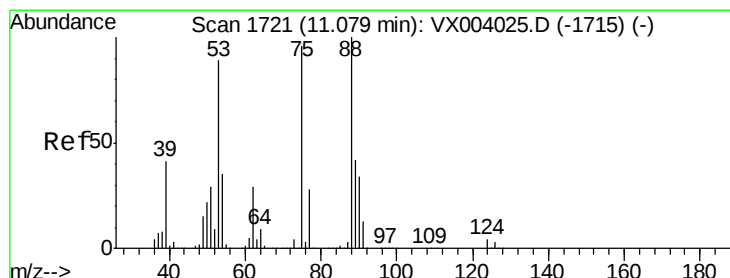
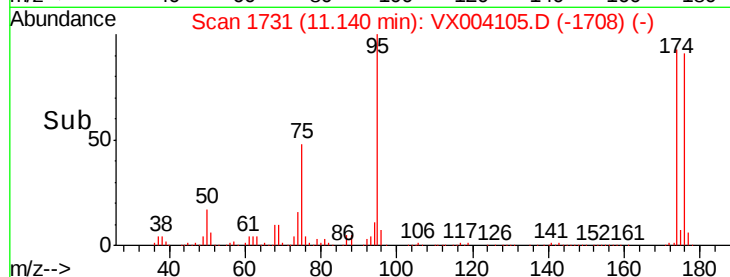
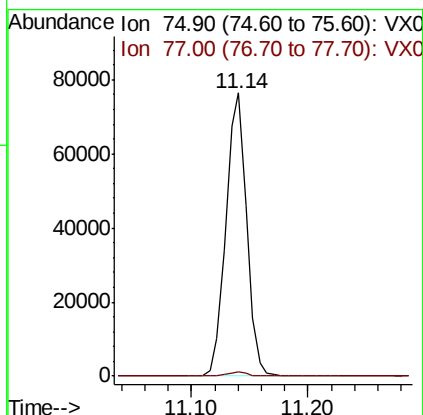
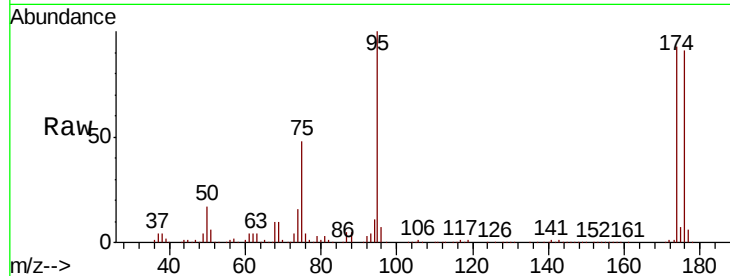




#76
 1,2,3-Trichloropropane
 Concen: 23.21 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX004105.D
 Acq: 16 Aug 2018 06:40

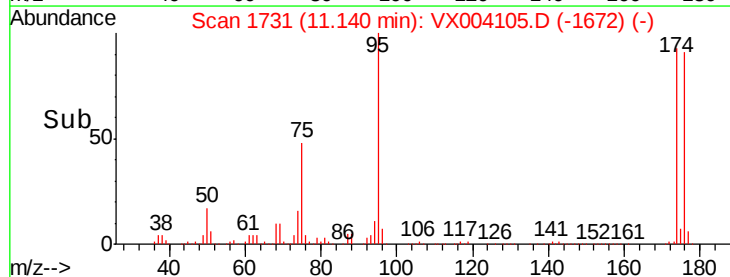
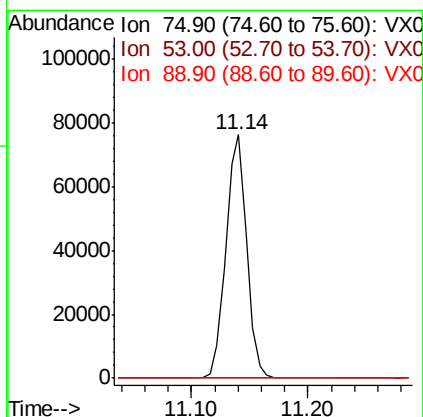
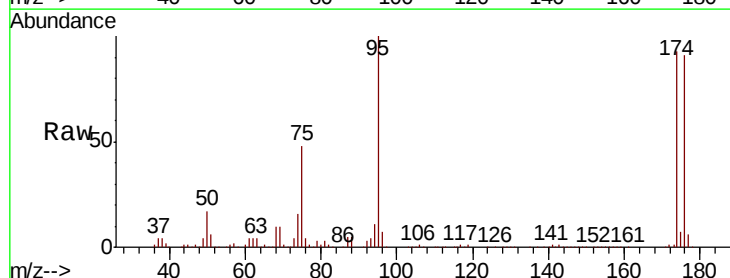
Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW504-180814

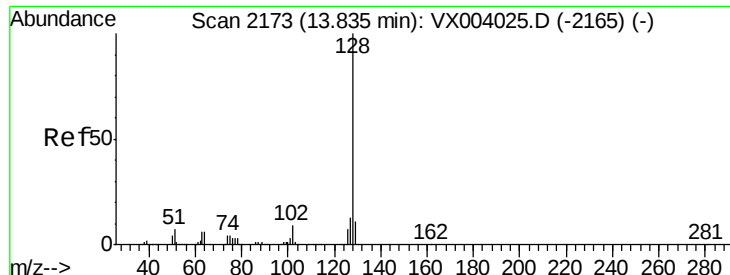
Tot Ion: 75 Resp: 94064
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.8 62.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.85 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX004105.D
 Acq: 16 Aug 2018 06:40

Tgt Ion: 75 Resp: 94064
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.3 120.5#
 89 0.0 37.8 56.8#





#95

Naphthalene

Concen: 1.16 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX004105.D

Acq: 16 Aug 2018 06:40

Instrument :

MSVOA_X

ClientSampleId :

SS050MW504-180814

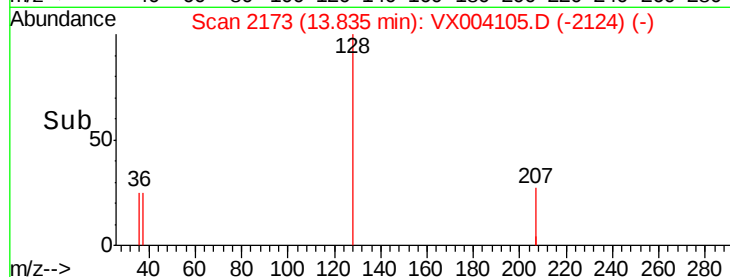
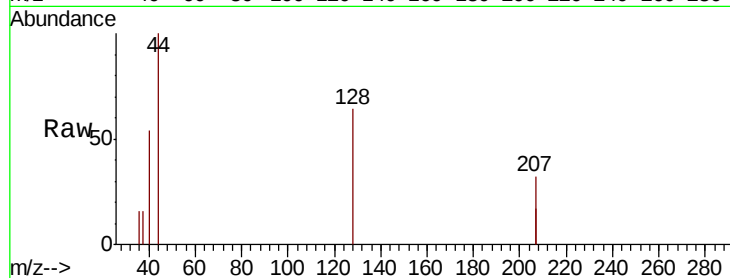
Tot Ion:128 Resp: 258

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

