

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004101.D
 Acq On : 16 Aug 2018 04:54
 Operator : JC/MD
 Sample : J4495-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW612-180814

Quant Time: Aug 16 07:19:15 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	257550	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	404534	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	400795	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	227570	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	195637	53.91	ug/l	0.00
Spiked Amount			Recovery	=	107.82%	
35) Dibromofluoromethane	5.51	113	158911	52.49	ug/l	0.00
Spiked Amount			Recovery	=	104.98%	
50) Toluene-d8	8.72	98	587649	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
62) 4-Bromofluorobenzene	11.14	95	208209	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	

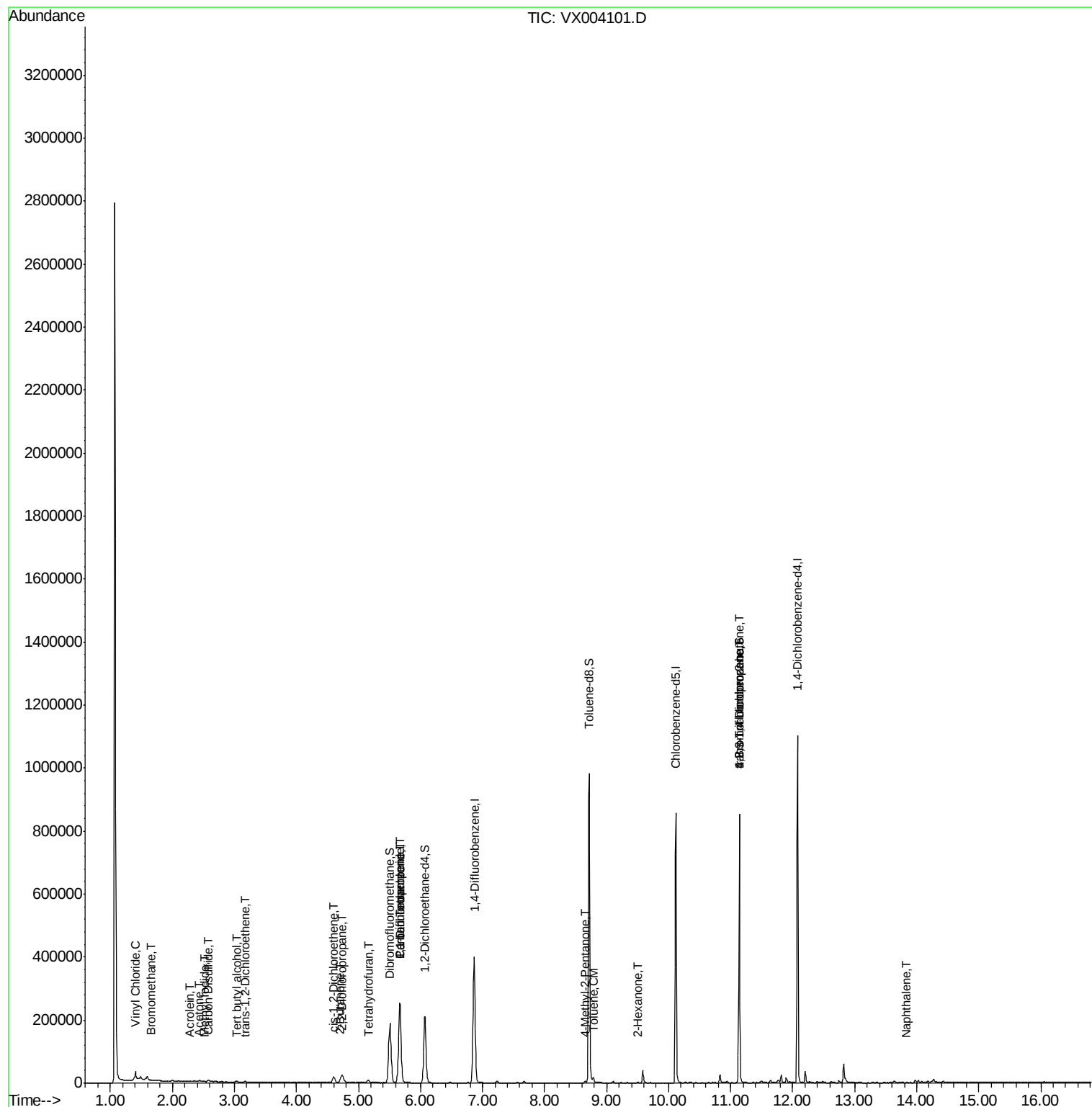
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	14682	4.41	ug/l	# 81
5) Bromomethane	1.65	94	890	0.35	ug/l	100
6) Chloroethane	1.94	64	190	Below Cal	#	45
10) Methyl Iodide	2.51	142	294	5.10	ug/l	# 47
11) Tert butyl alcohol	3.04	59	3034	4.15	ug/l	99
13) Acrolein	2.29	56	332	11.59	ug/l	# 15
16) Acetone	2.43	43	5807	3.08	ug/l	100
17) Carbon Disulfide	2.57	76	7335	0.95	ug/l	97
20) Methylene Chloride	2.87	84	187	Below Cal	#	68
21) trans-1,2-Dichloroethene	3.17	96	1038	0.34	ug/l	# 74
25) 2-Butanone	4.70	43	3420	1.11	ug/l	# 76
26) 2,2-Dichloropropane	4.73	77	2357	0.52	ug/l	# 51
27) cis-1,2-Dichloroethene	4.60	96	11743	3.39	ug/l	99
29) Tetrahydrofuran	5.17	42	6702	4.27	ug/l	95
36) 1,1-Dichloropropene	5.67	75	18393	4.00	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	23594	5.28	ug/l	# 14
51) 4-Methyl-2-Pentanone	8.65	43	2673	0.44	ug/l	92
52) Toluene	8.79	92	4185	0.48	ug/l	99
59) 2-Hexanone	9.50	43	1900	0.42	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	102911	22.55	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	102911	69.80	ug/l	# 9
95) Naphthalene	13.84	128	628	1.18	ug/l	# 94

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

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Quant Title : SW846 8260
QLast Update : Tue Aug 14 13:27:25 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX004101.D

Acq: 16 Aug 2018 04:54

Instrument :

MSVOA_X

ClientSampleId :

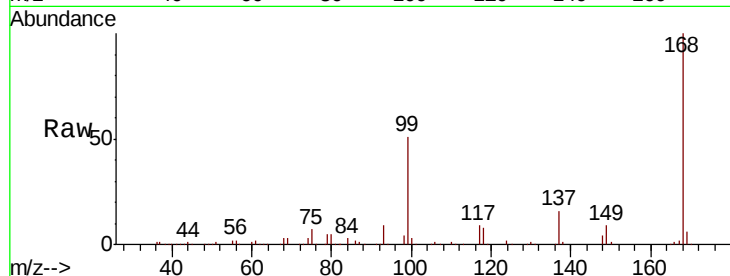
SS050MW612-180814

Tot Ion:168 Resp: 257550

Ion Ratio Lower Upper

168 100

99 51.5 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

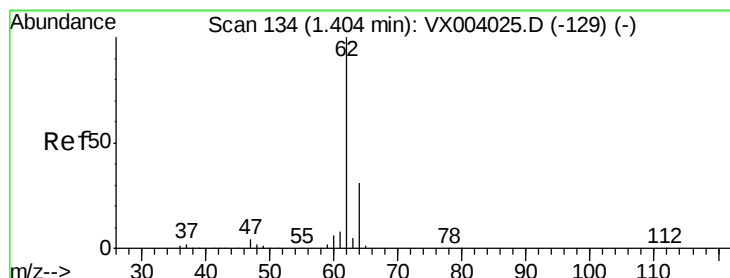
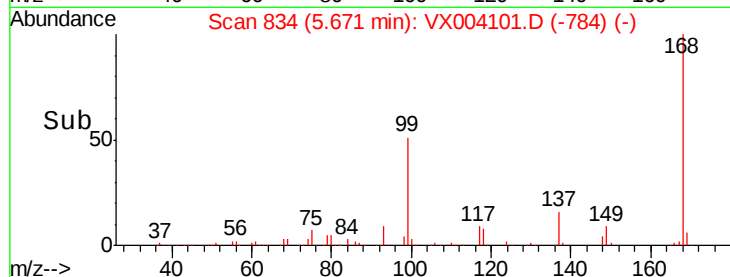
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 4.41 ug/l

RT: 1.41 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX004101.D

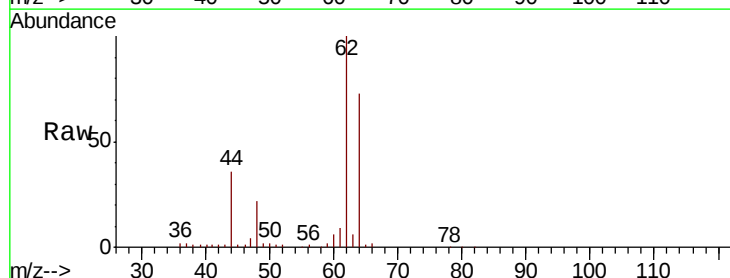
Acq: 16 Aug 2018 04:54

Tgt Ion: 62 Resp: 14682

Ion Ratio Lower Upper

62 100

64 43.4 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

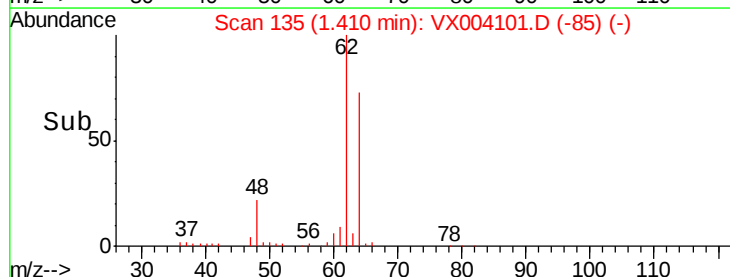
15000

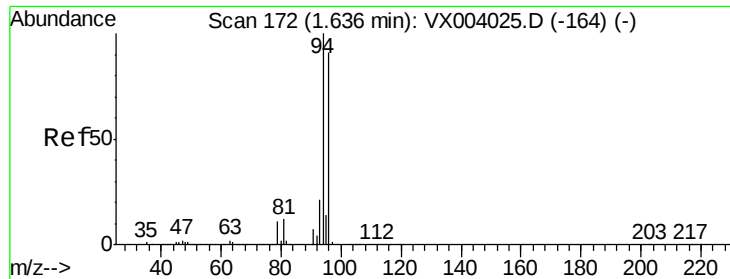
10000

5000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 0.35 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004101.D

Acq: 16 Aug 2018 04:54

Instrument :

MSVOA_X

ClientSampleId :

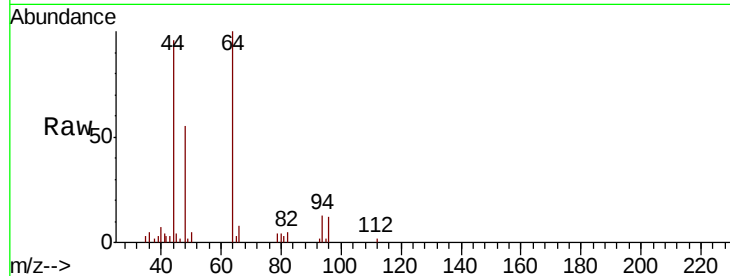
SS050MW612-180814

Tot Ion: 94 Resp: 890

Ion Ratio Lower Upper

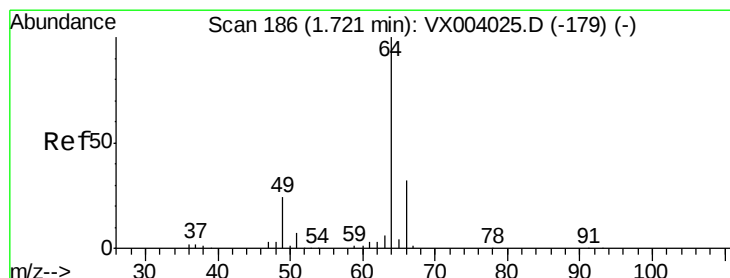
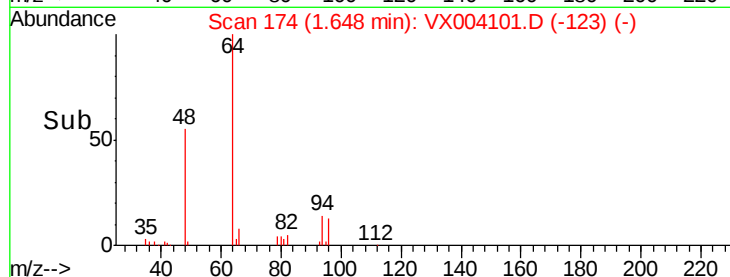
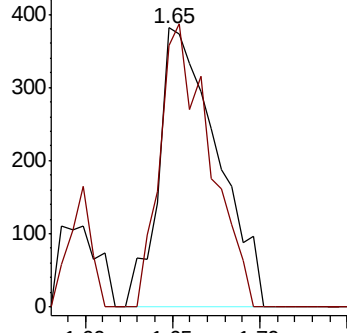
94 100

96 94.0 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.94 min Scan# 222

Delta R.T. 0.22 min

Lab File: VX004101.D

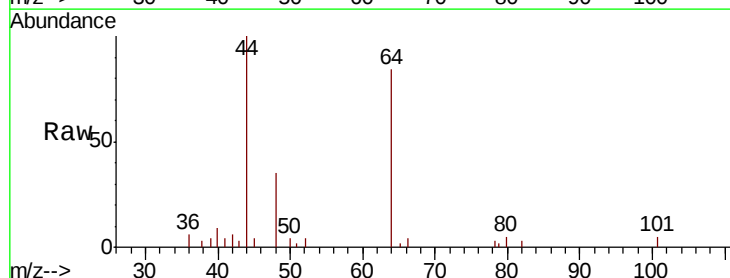
Acq: 16 Aug 2018 04:54

Tgt Ion: 64 Resp: 190

Ion Ratio Lower Upper

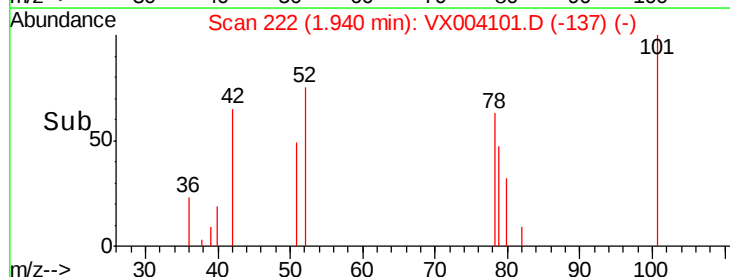
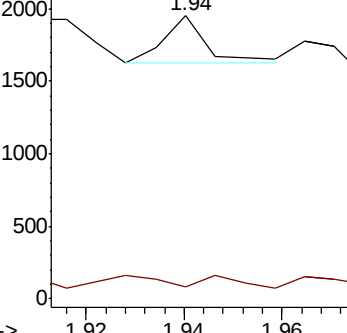
64 100

66 1.9 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

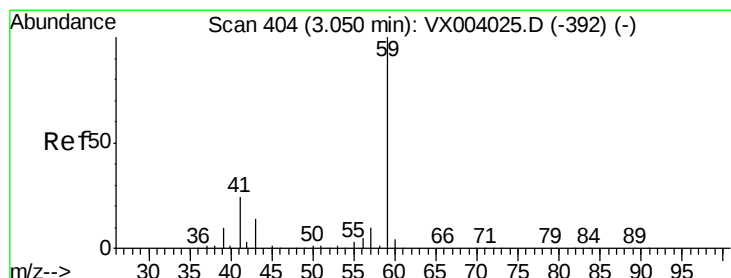
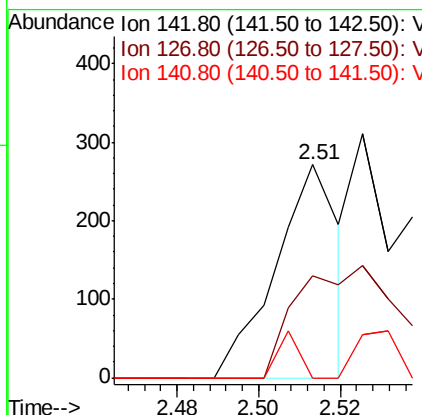
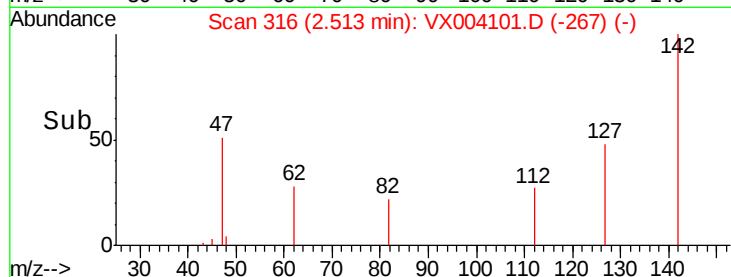
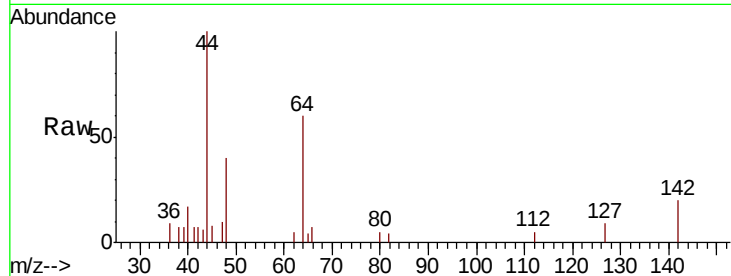




#10
Methvl Iodide
Concen: 5.10 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX004101.D
Acq: 16 Aug 2018 04:54

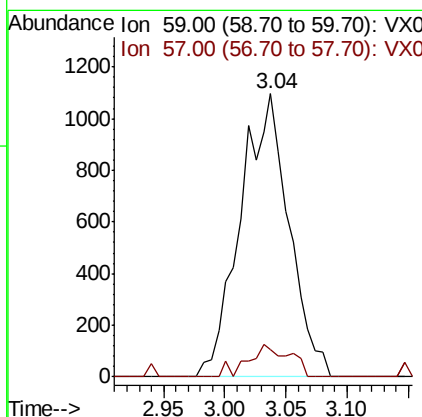
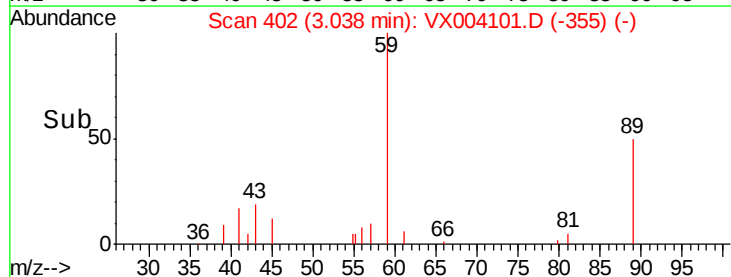
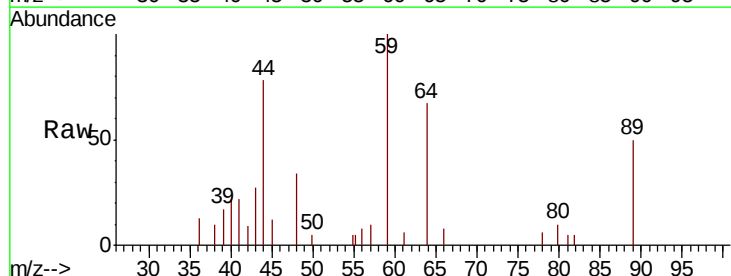
Instrument :
MSVOA_X
ClientSampleId :
SS050MW612-180814

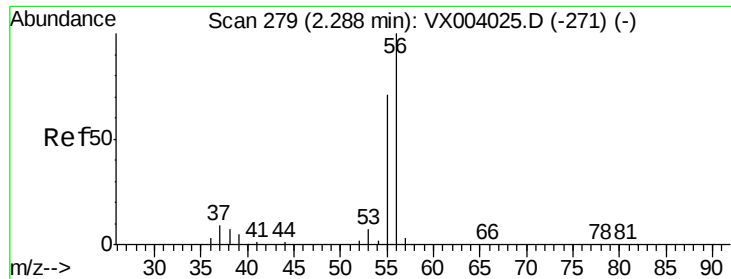
Tot Ion:142 Resp: 294
Ion Ratio Lower Upper
142 100
127 0.0 33.1 49.7#
141 7.5 11.1 16.7#



#11
Tert butyl alcohol
Concen: 4.15 ug/l
RT: 3.04 min Scan# 402
Delta R.T. -0.01 min
Lab File: VX004101.D
Acq: 16 Aug 2018 04:54

Tgt Ion: 59 Resp: 3034
Ion Ratio Lower Upper
59 100
57 9.7 8.1 12.1





#13

Acrolein

Concen: 11.59 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004101.D

Acq: 16 Aug 2018 04:54

Instrument :

MSVOA_X

ClientSampleId :

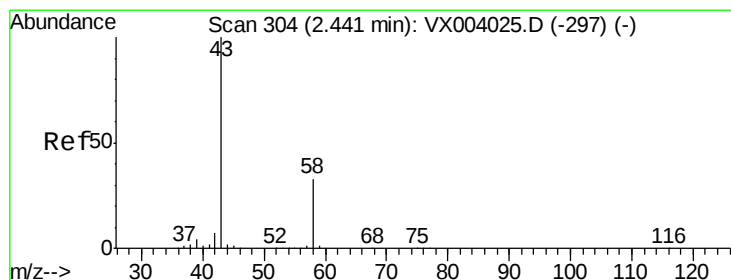
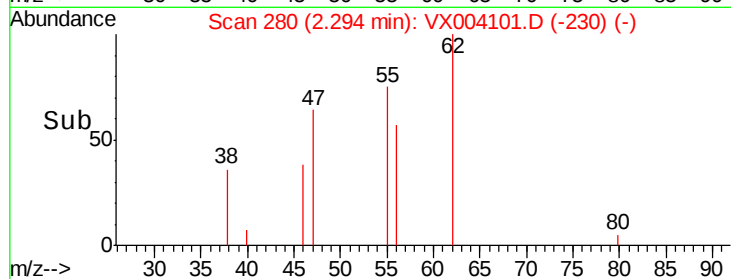
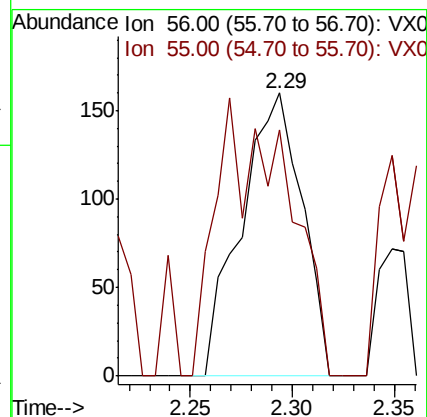
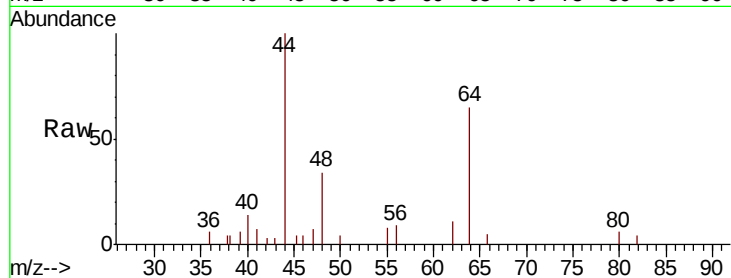
SS050MW612-180814

Tot Ion: 56 Resp: 332

Ion Ratio Lower Upper

56 100

55 0.0 56.1 84.1#



#16

Acetone

Concen: 3.08 ug/l

RT: 2.43 min Scan# 303

Delta R.T. -0.01 min

Lab File: VX004101.D

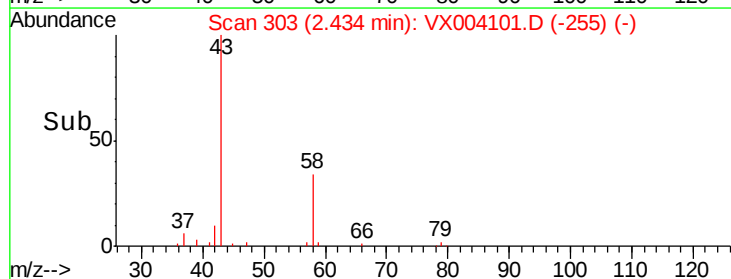
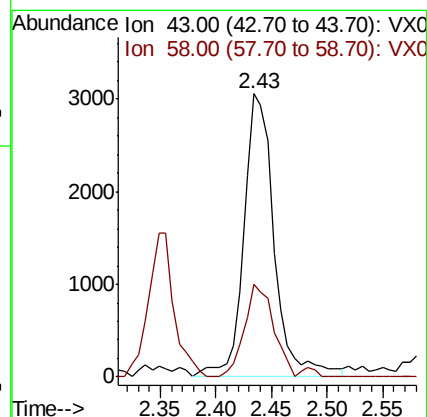
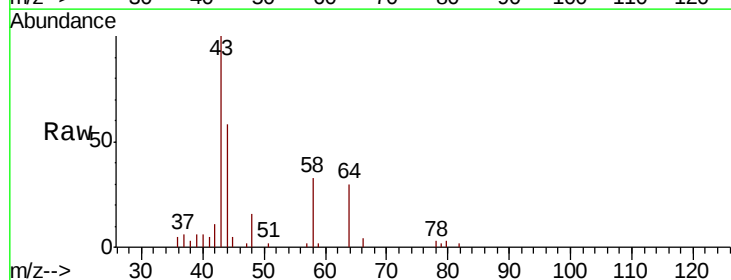
Acq: 16 Aug 2018 04:54

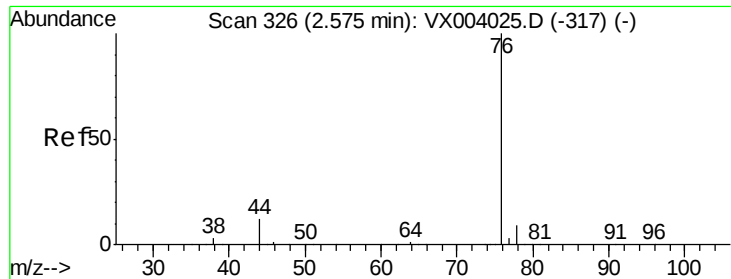
Tgt Ion: 43 Resp: 5807

Ion Ratio Lower Upper

43 100

58 32.8 26.4 39.6





#17

Carbon Disulfide

Concen: 0.95 ua/l

RT: 2.57 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX004101.D

Acq: 16 Aug 2018 04:54

Instrument :

MSVOA_X

ClientSampleId :

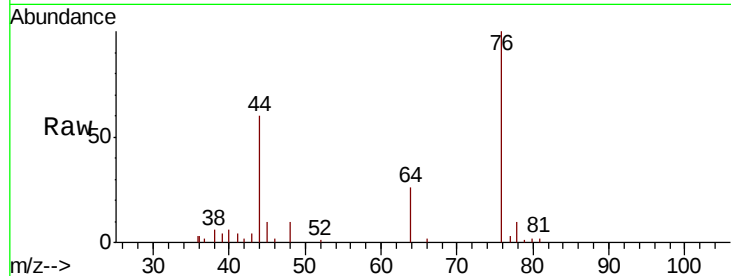
SS050MW612-180814

Tot Ion: 76 Resp: 7335

Ion Ratio Lower Upper

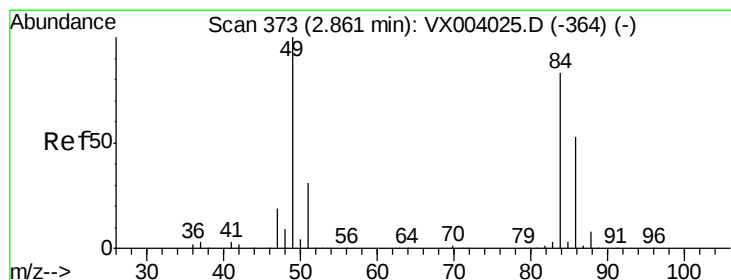
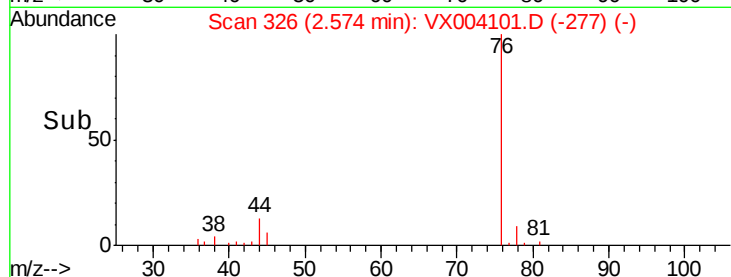
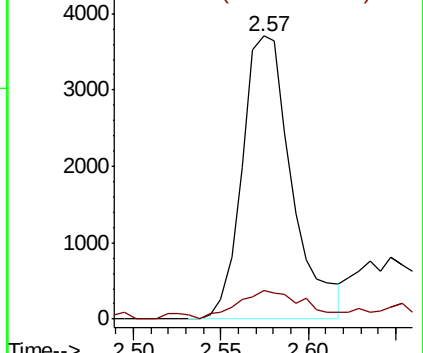
76 100

78 8.4 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX004101.D

Acq: 16 Aug 2018 04:54

Tgt Ion: 84 Resp: 187

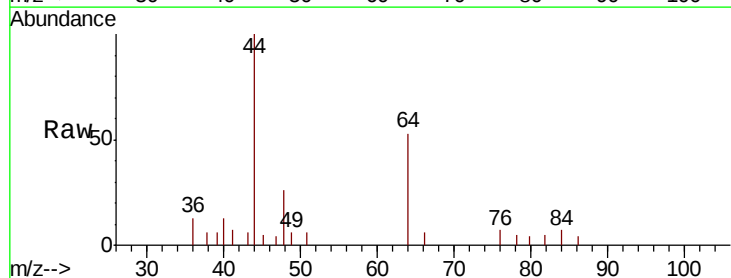
Ion Ratio Lower Upper

84 100

49 91.3 98.9 148.3#

51 88.3 29.9 44.9#

86 58.3 51.0 76.6

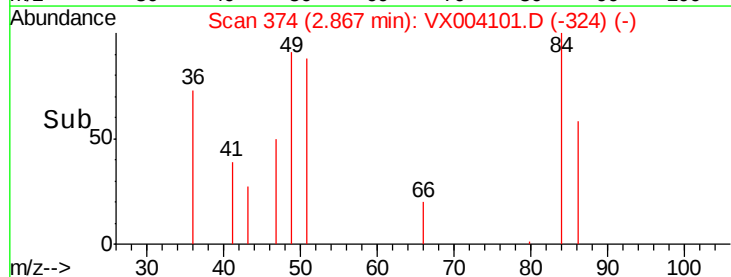
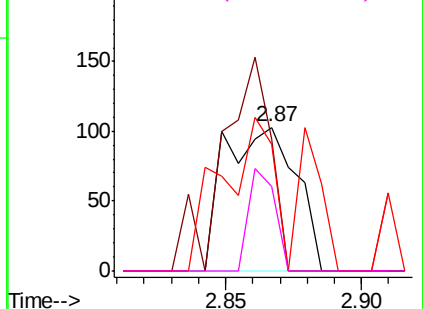


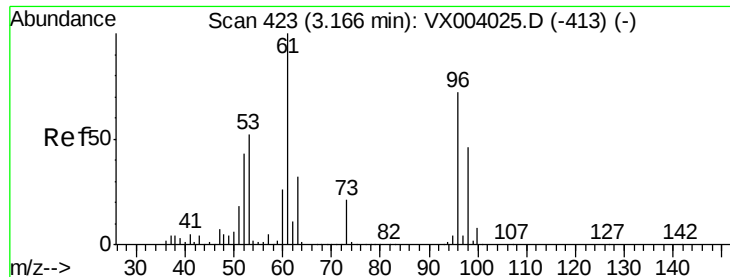
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.34 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX004101.D

Acq: 16 Aug 2018 04:54

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SS050MW612-180814

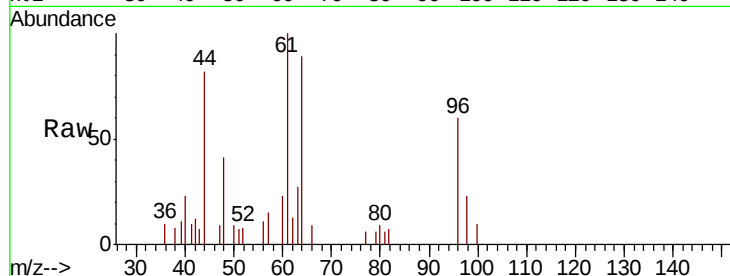
Tot Ion: 96 Resp: 1038

Ion Ratio Lower Upper

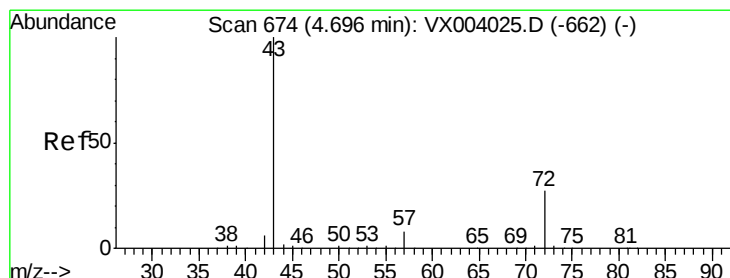
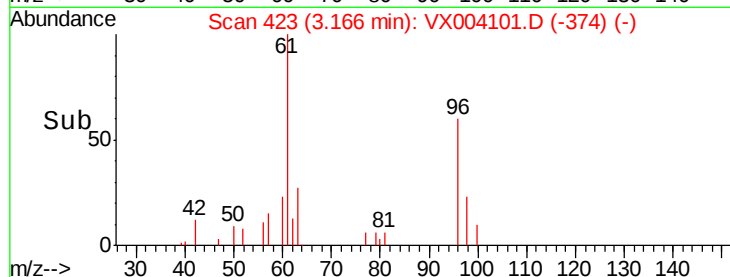
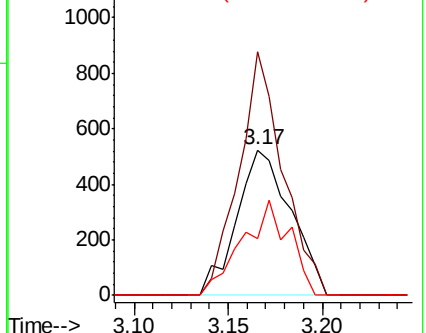
96 100

61 167.0 111.8 167.6

98 39.0 51.8 77.6#



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 1.11 ug/l

RT: 4.70 min Scan# 675

Delta R.T. 0.01 min

Lab File: VX004101.D

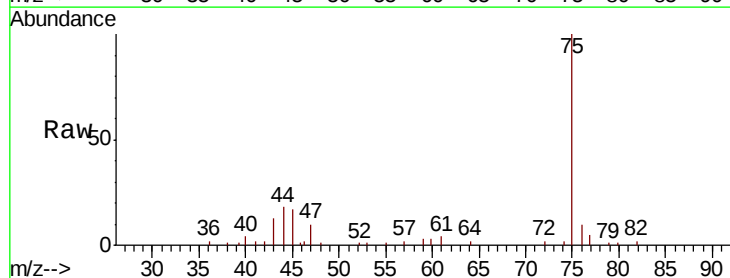
Acq: 16 Aug 2018 04:54

Tgt Ion: 43 Resp: 3420

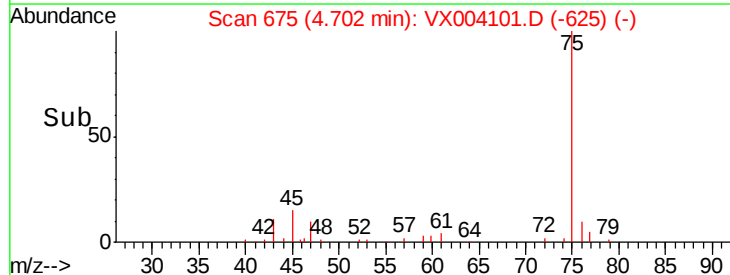
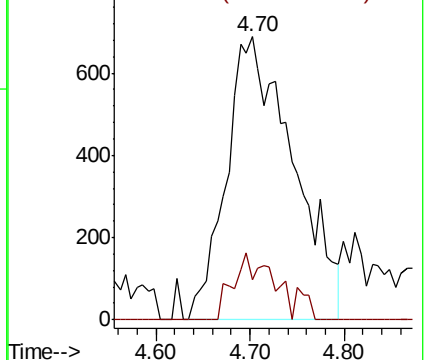
Ion Ratio Lower Upper

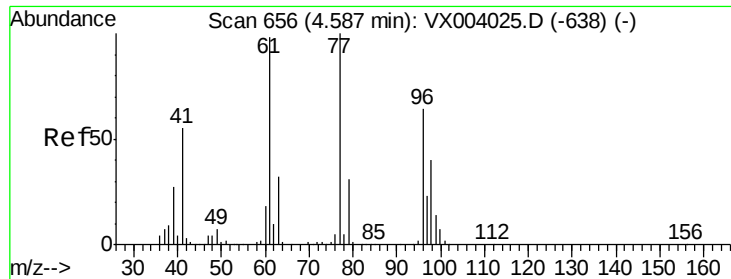
43 100

72 14.2 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.30): VX0
Ion 72.00 (71.70 to 72.30): VX0





#26

2,2-Dichloropropane

Concen: 0.52 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.15 min

Lab File: VX004101.D

Acq: 16 Aug 2018 04:54

Instrument :

MSVOA_X

ClientSampleId :

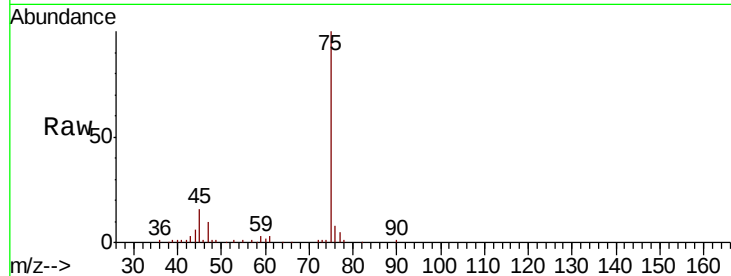
SS050MW612-180814

Tot Ion: 77 Resp: 2357

Ion Ratio Lower Upper

77 100

97 0.0 11.9 35.9#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.73

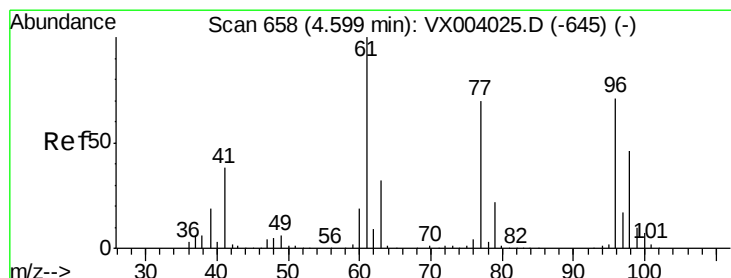
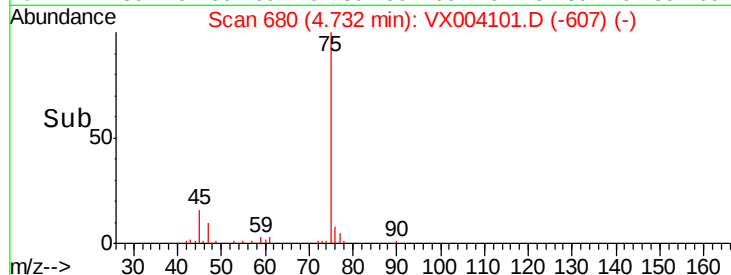
600

400

200

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 3.39 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004101.D

Acq: 16 Aug 2018 04:54

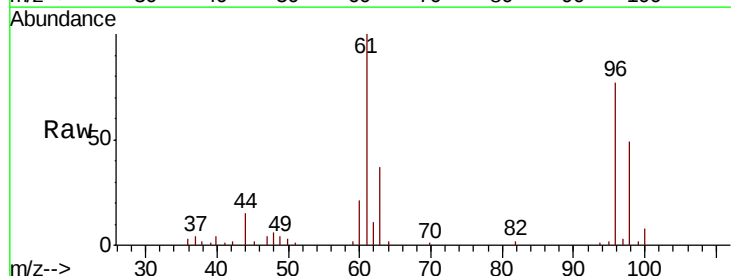
Tgt Ion: 96 Resp: 11743

Ion Ratio Lower Upper

96 100

61 147.4 0.0 293.0

98 65.1 0.0 131.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

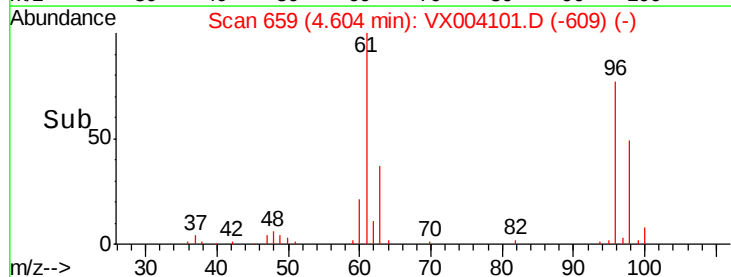
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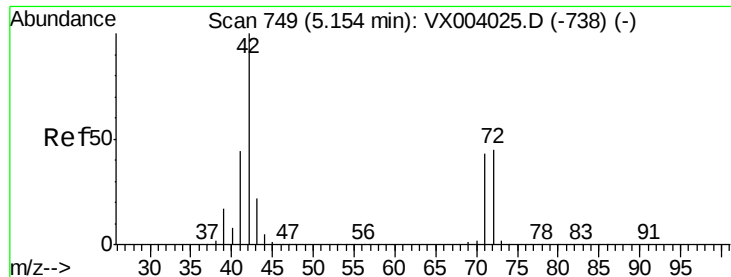
4000

2000

0

Time-->





#29

Tetrahydrofuran

Concen: 4.27 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.01 min

Lab File: VX004101.D

Acq: 16 Aug 2018 04:54

Instrument :

MSVOA_X

ClientSampleId :

SS050MW612-180814

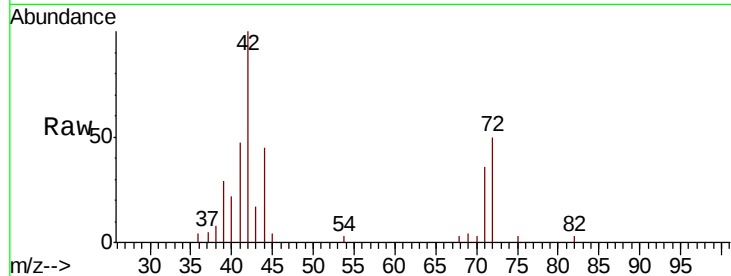
Tot Ion: 42 Resp: 6702

Ion Ratio Lower Upper

42 100

72 42.7 37.7 56.5

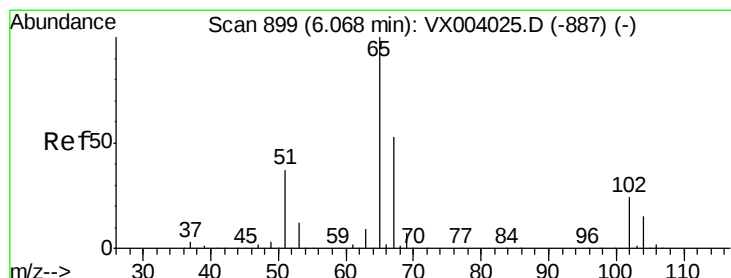
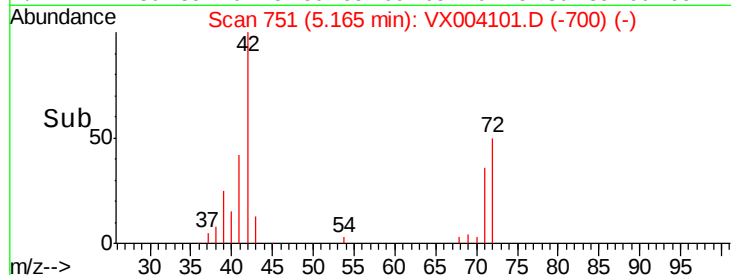
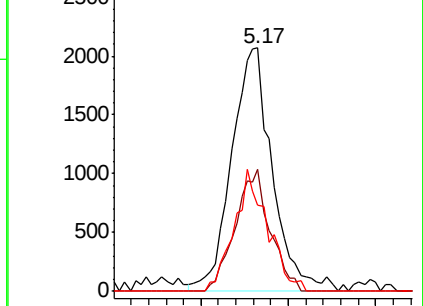
71 41.2 35.0 52.6



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



#33

1,2-Dichloroethane-d4

Concen: 53.91 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX004101.D

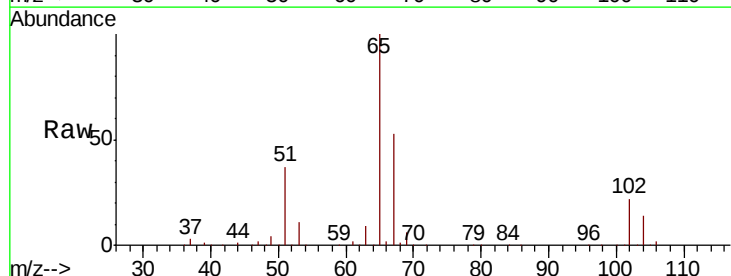
Acq: 16 Aug 2018 04:54

Tgt Ion: 65 Resp: 195637

Ion Ratio Lower Upper

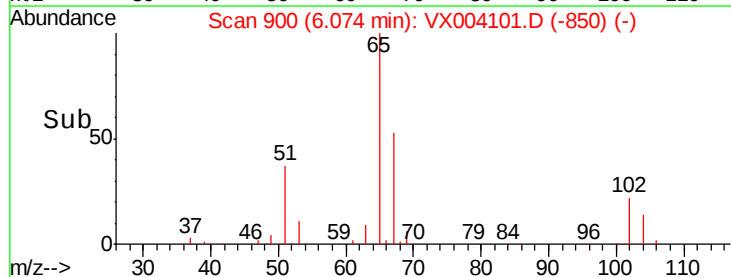
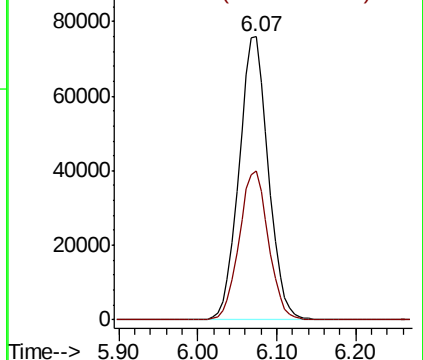
65 100

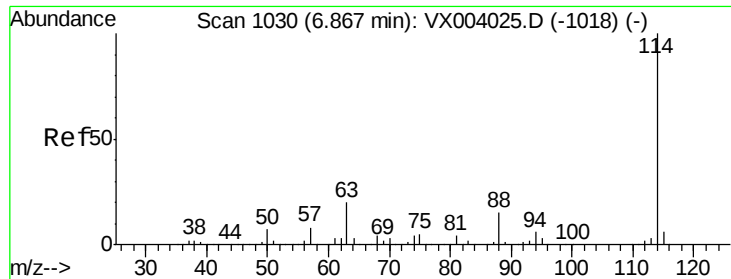
67 52.8 0.0 105.8



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: VX004101.D

Acq: 16 Aug 2018 04:54

Instrument :

MSVOA_X

ClientSampleId :

SS050MW612-180814

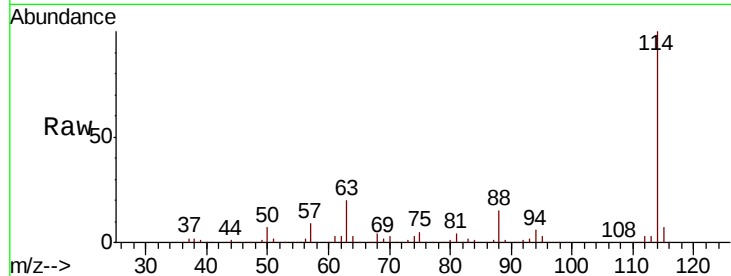
Tot Ion:114 Resp: 404534

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.0

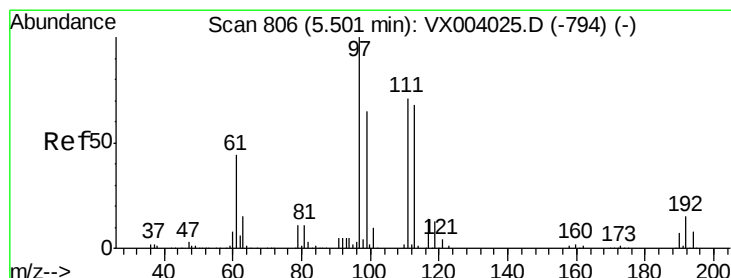
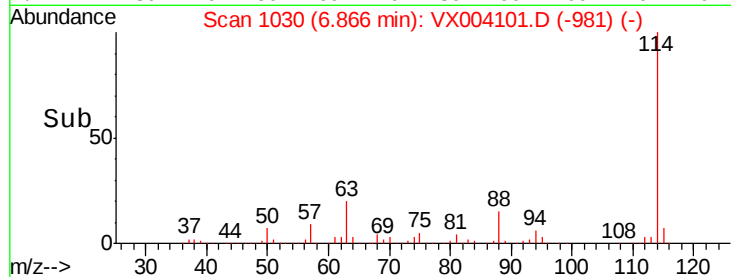
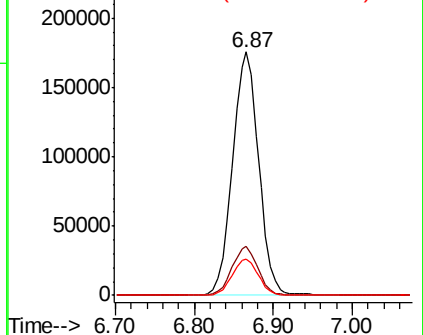
88 15.1 0.0 32.0



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



#35

Dibromofluoromethane

Concen: 52.49 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004101.D

Acq: 16 Aug 2018 04:54

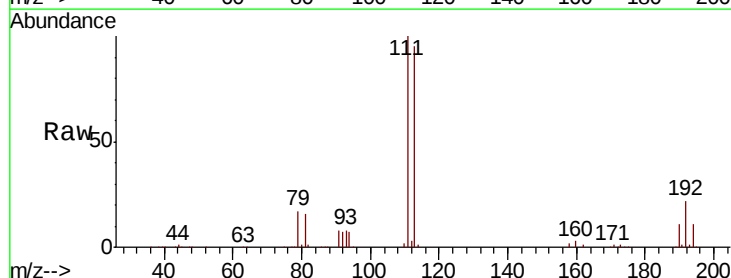
Tgt Ion:113 Resp: 158911

Ion Ratio Lower Upper

113 100

111 102.6 82.0 123.0

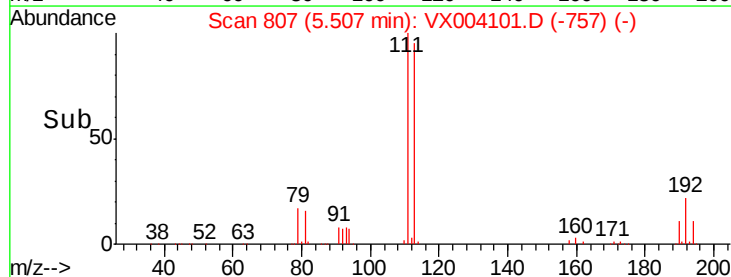
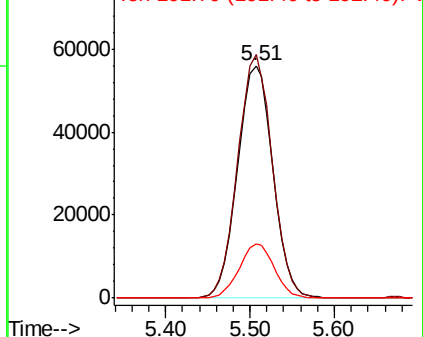
192 23.1 19.0 28.4

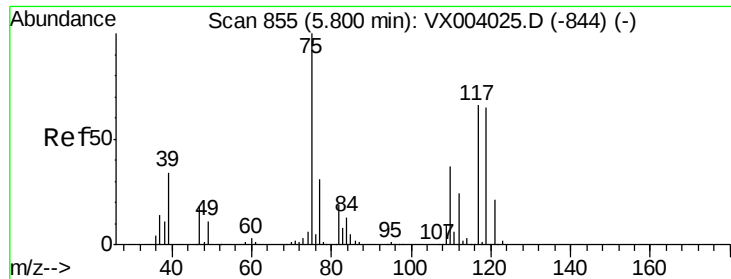


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

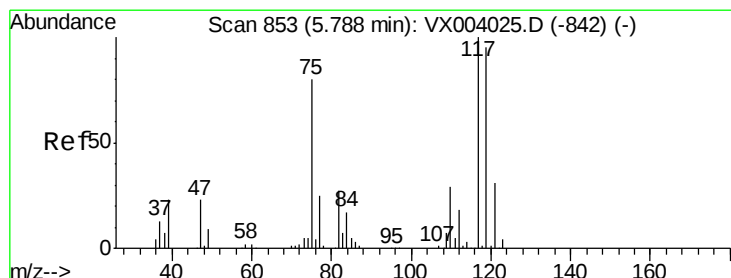
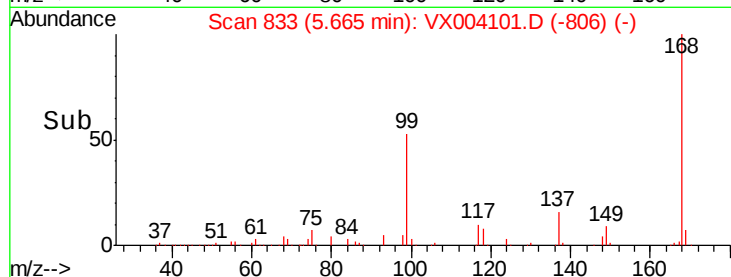
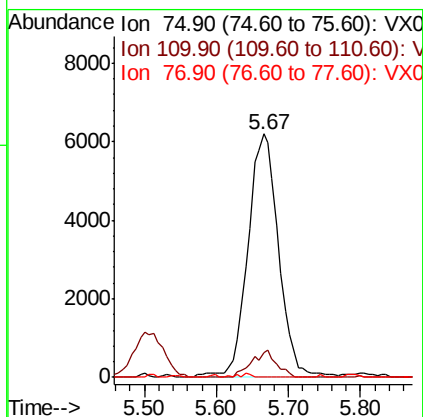
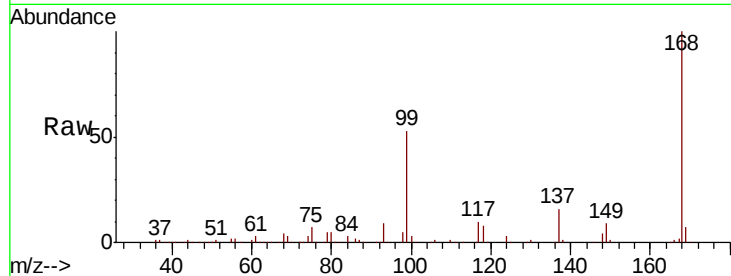




#36
 1,1-Dichloropropene
 Concen: 4.00 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX004101.D
 Acq: 16 Aug 2018 04:54

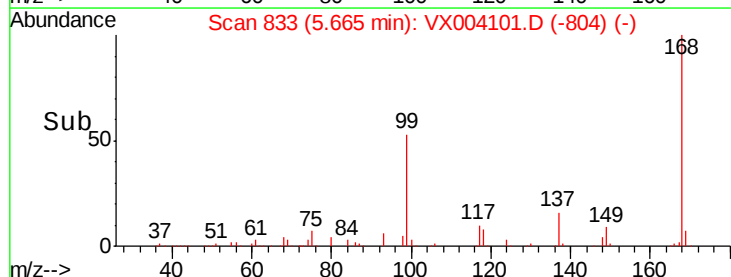
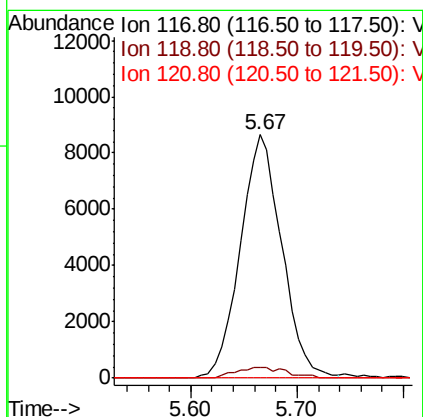
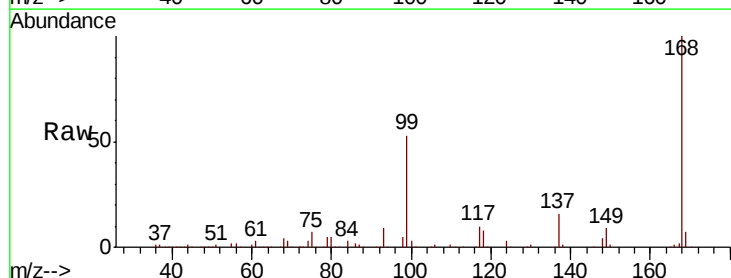
Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW612-180814

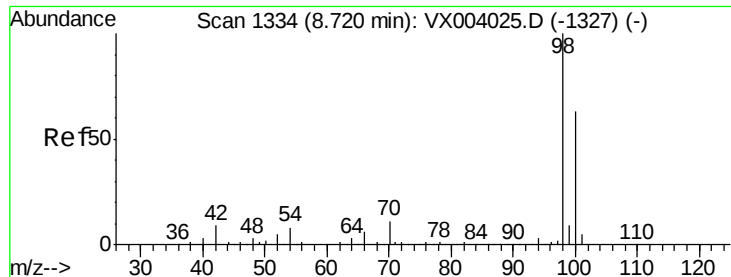
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.2	54.6#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.28 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX004101.D
 Acq: 16 Aug 2018 04:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	79.5	119.3#
121	0.0	25.0	37.4#





#50

Toluene-d8

Concen: 47.87 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004101.D

Acq: 16 Aug 2018 04:54

Instrument :

MSVOA_X

ClientSampleId :

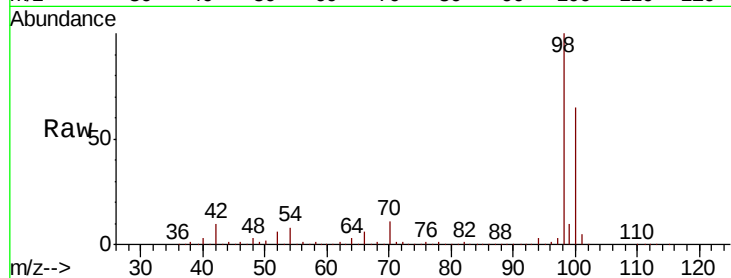
SS050MW612-180814

Tot Ion: 98 Resp: 587649

Ion Ratio Lower Upper

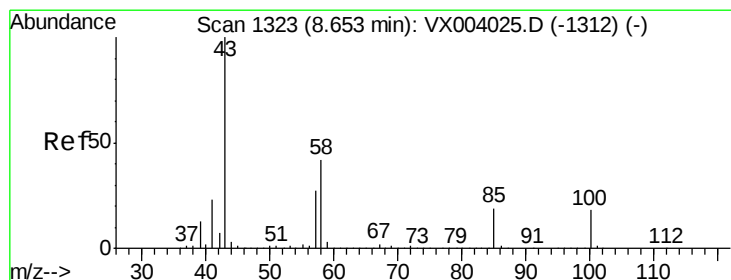
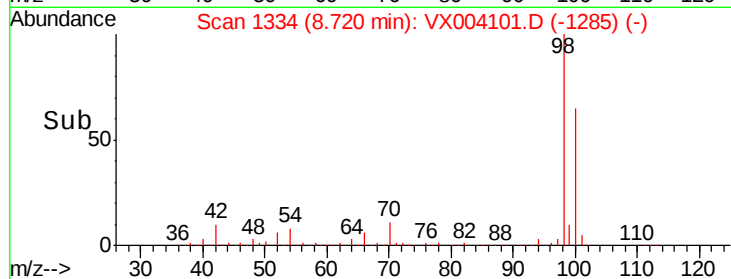
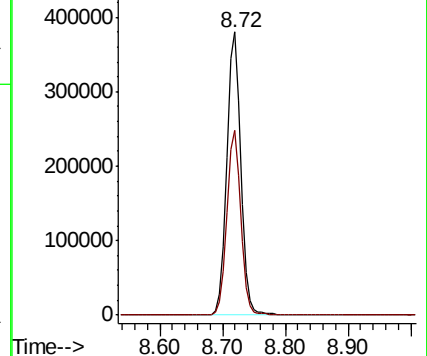
98 100

100 65.0 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.44 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX004101.D

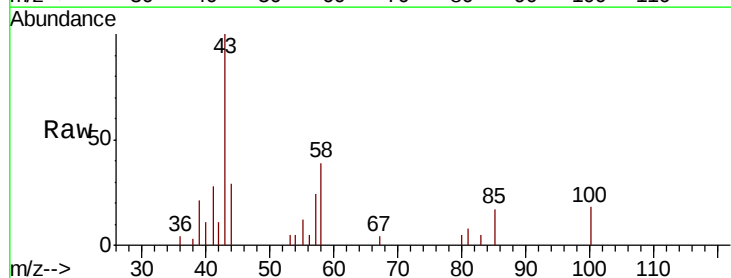
Acq: 16 Aug 2018 04:54

Tgt Ion: 43 Resp: 2673

Ion Ratio Lower Upper

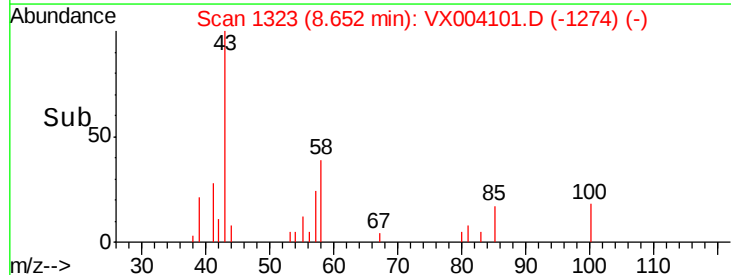
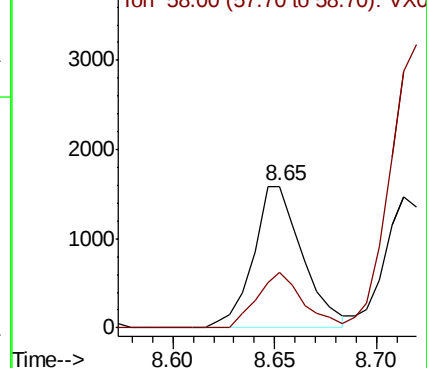
43 100

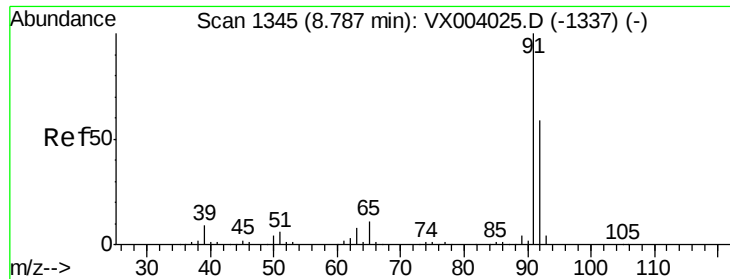
58 36.3 33.0 49.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#52

Toluene

Concen: 0.48 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX004101.D

Acq: 16 Aug 2018 04:54

Instrument :

MSVOA_X

ClientSampleId :

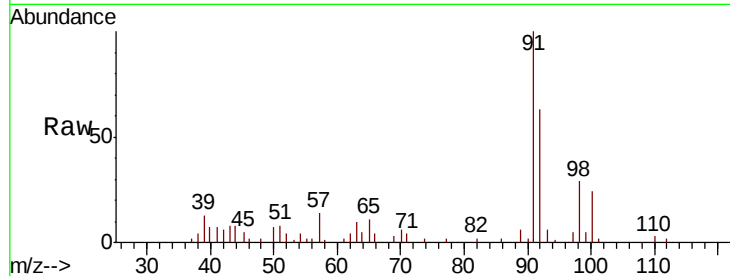
SS050MW612-180814

Tot Ion: 92 Resp: 4185

Ion Ratio Lower Upper

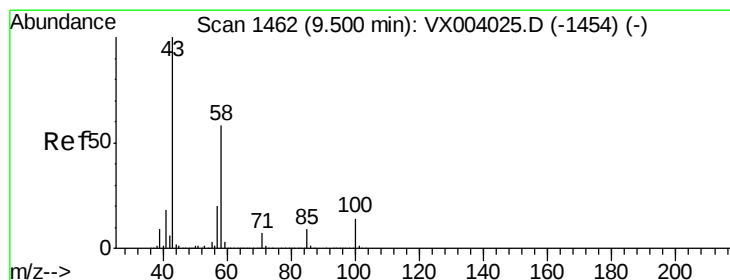
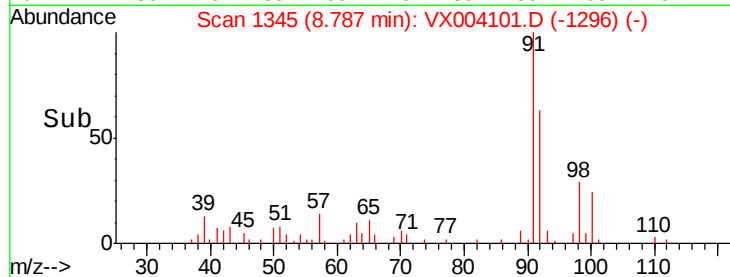
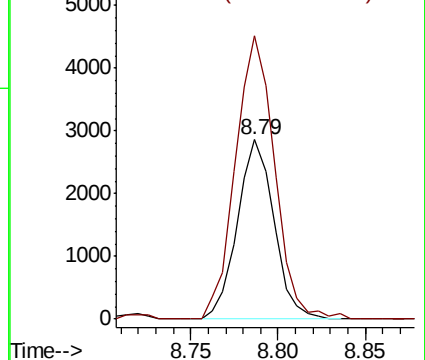
92 100

91 168.2 136.1 204.1



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#59

2-Hexanone

Concen: 0.42 ug/l

RT: 9.50 min Scan# 1462

Delta R.T. -0.00 min

Lab File: VX004101.D

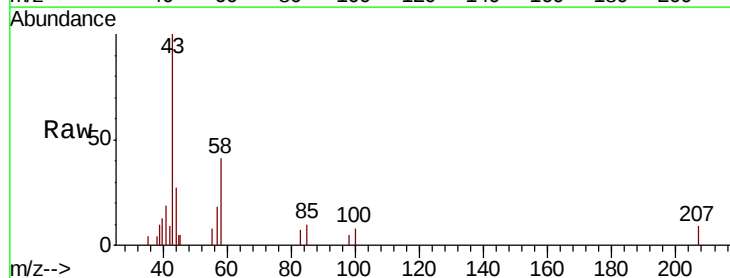
Acq: 16 Aug 2018 04:54

Tgt Ion: 43 Resp: 1900

Ion Ratio Lower Upper

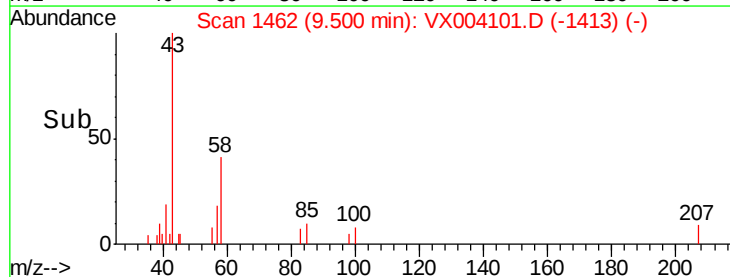
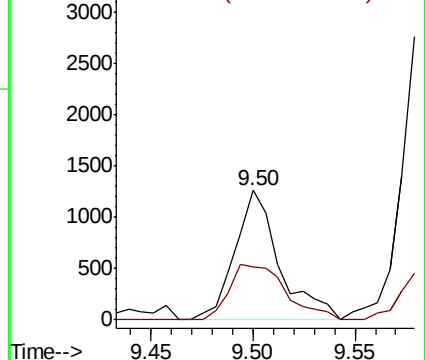
43 100

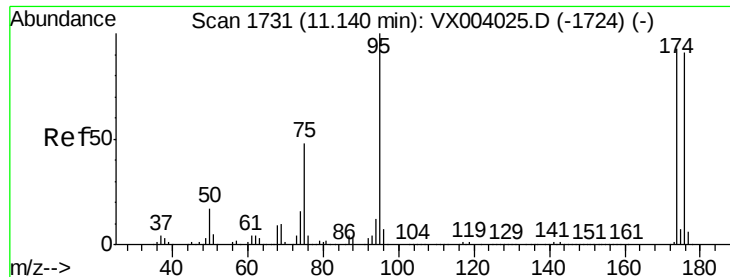
58 54.2 29.0 87.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

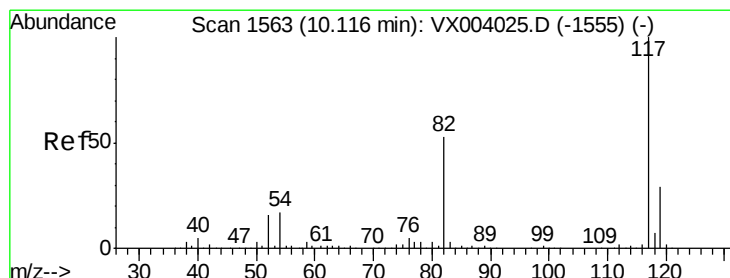
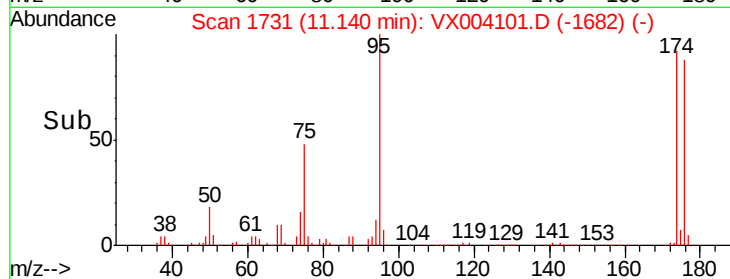
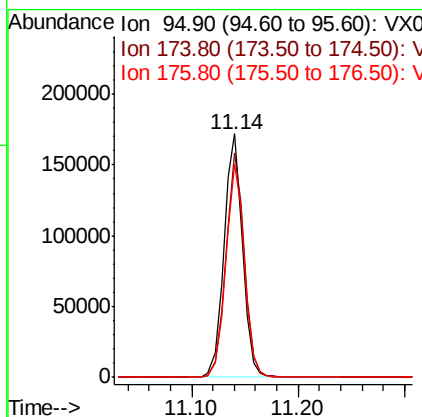
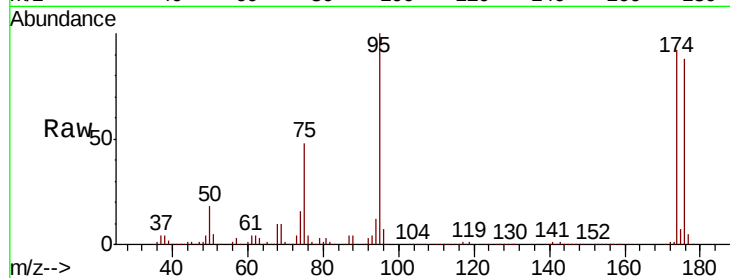




#62
4-Bromofluorobenzene
Concen: 46.77 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004101.D
Acq: 16 Aug 2018 04:54

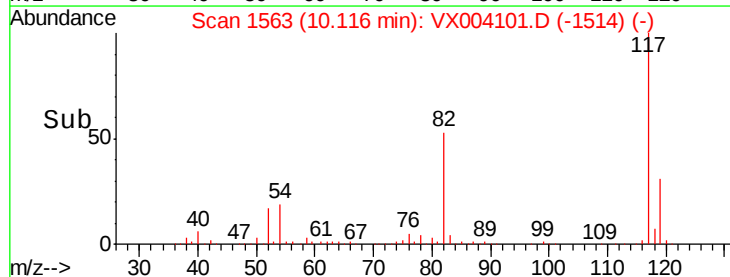
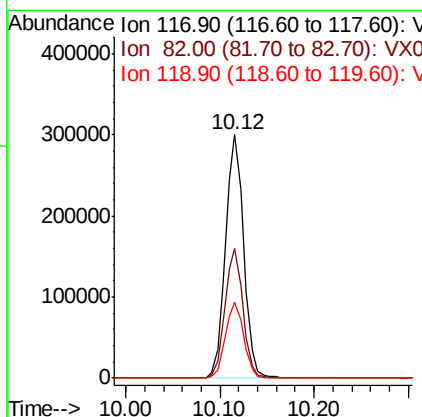
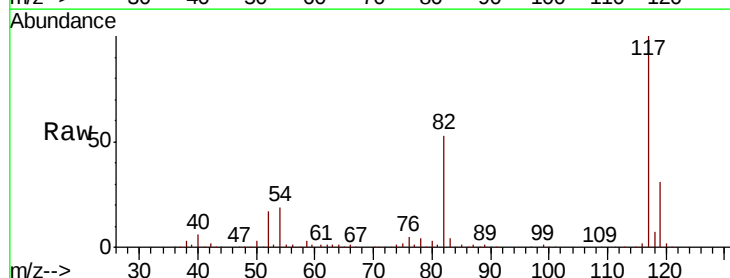
Instrument :
MSVOA_X
ClientSampleId :
SS050MW612-180814

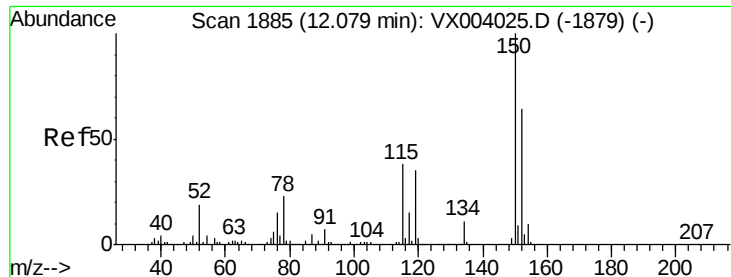
Tot Ion	95	Resp	208209
Ion Ratio	100		
Lower			
Upper			
174	92.5	0.0	182.8
176	88.3	0.0	179.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004101.D
Acq: 16 Aug 2018 04:54

Tgt Ion	117	Resp	400795
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower <td></td> <td></td> <td></td>			
Upper <td></td> <td></td> <td></td>			
82	53.1	45.4	68.0
119	31.2	26.6	40.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004101.D

Acq: 16 Aug 2018 04:54

Instrument :

MSVOA_X

ClientSampleId :

SS050MW612-180814

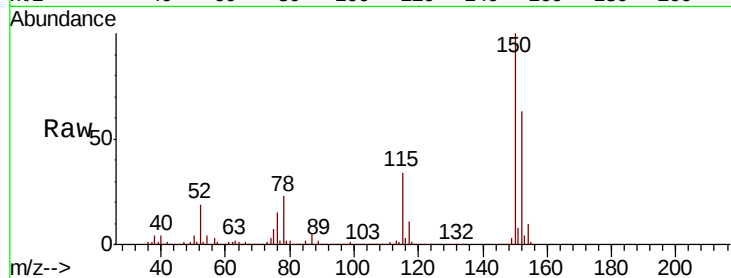
Tot Ion:152 Resp: 227570

Ion Ratio Lower Upper

152 100

115 54.1 39.1 117.3

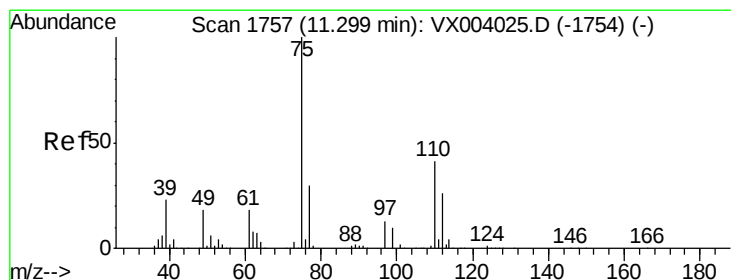
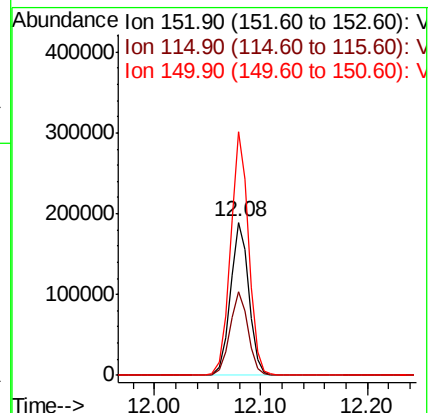
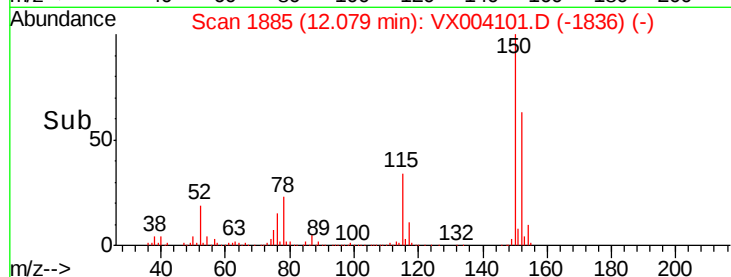
150 156.7 0.0 349.2



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: 22.55 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004101.D

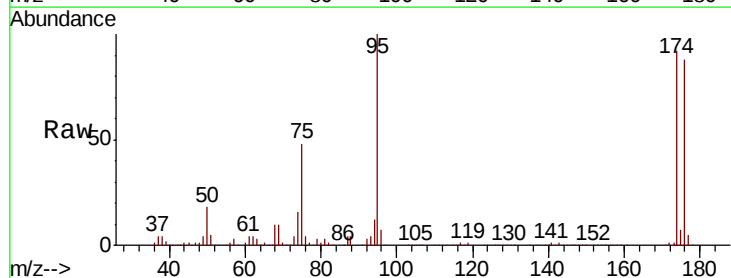
Acq: 16 Aug 2018 04:54

Tgt Ion: 75 Resp: 102911

Ion Ratio Lower Upper

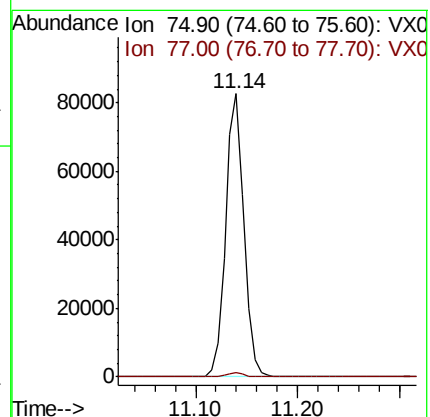
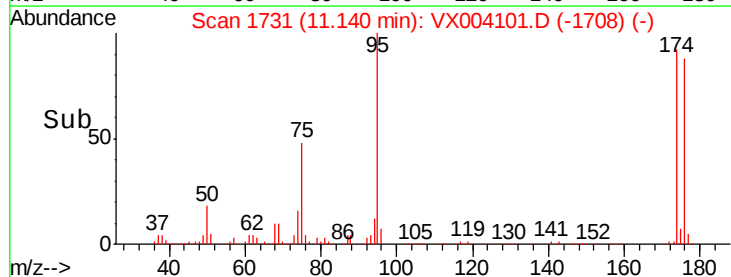
75 100

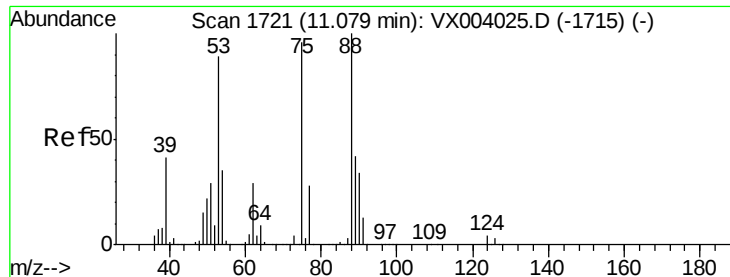
77 1.4 20.8 62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

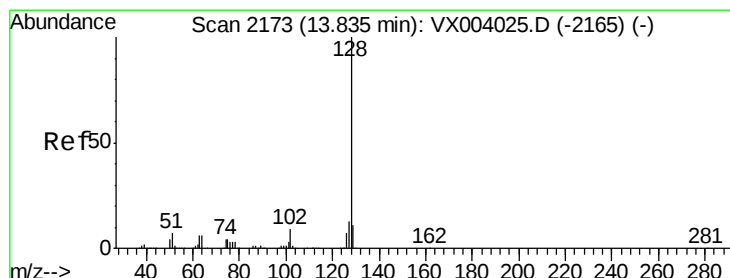
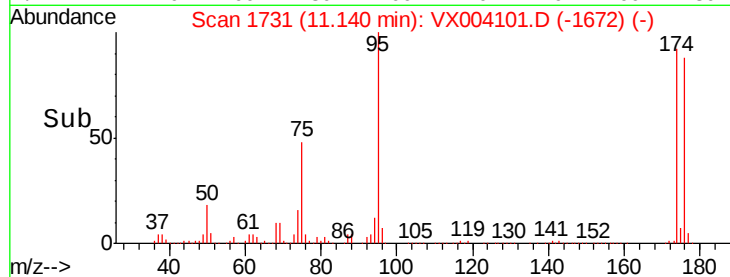
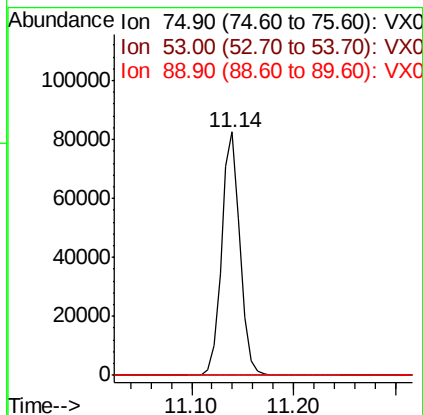
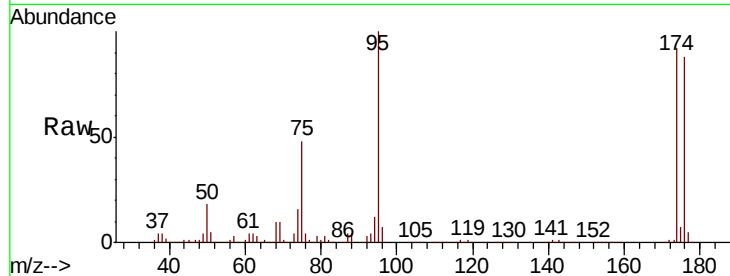




#81
trans-1,4-Dichloro-2-butene
Concen: 69.80 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX004101.D
Acq: 16 Aug 2018 04:54

Instrument :
MSVOA_X
ClientSampleId :
SS050MW612-180814

Tot Ion: 75 Resp: 102911
Ion Ratio Lower Upper
75 100
53 0.2 80.3 120.5#
89 0.0 37.8 56.8#



#95
Naphthalene
Concen: 1.18 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.01 min
Lab File: VX004101.D
Acq: 16 Aug 2018 04:54

Tgt Ion: 128 Resp: 628
Ion Ratio Lower Upper
128 100
127 8.1 10.2 15.2#
129 10.8 8.8 13.2

