

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080918\
 Data File : VX003955.D
 Acq On : 09 Aug 2018 17:17
 Operator : JC/MD
 Sample : J4379-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-105S

Quant Time: Aug 10 01:05:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 07:45:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	321674	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	501969	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	480122	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	259224	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	218699	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
35) Dibromofluoromethane	5.51	113	189964	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
50) Toluene-d8	8.72	98	709988	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
62) 4-Bromofluorobenzene	11.14	95	253810	53.04	ug/l	0.00
Spiked Amount			Recovery	=	106.08%	

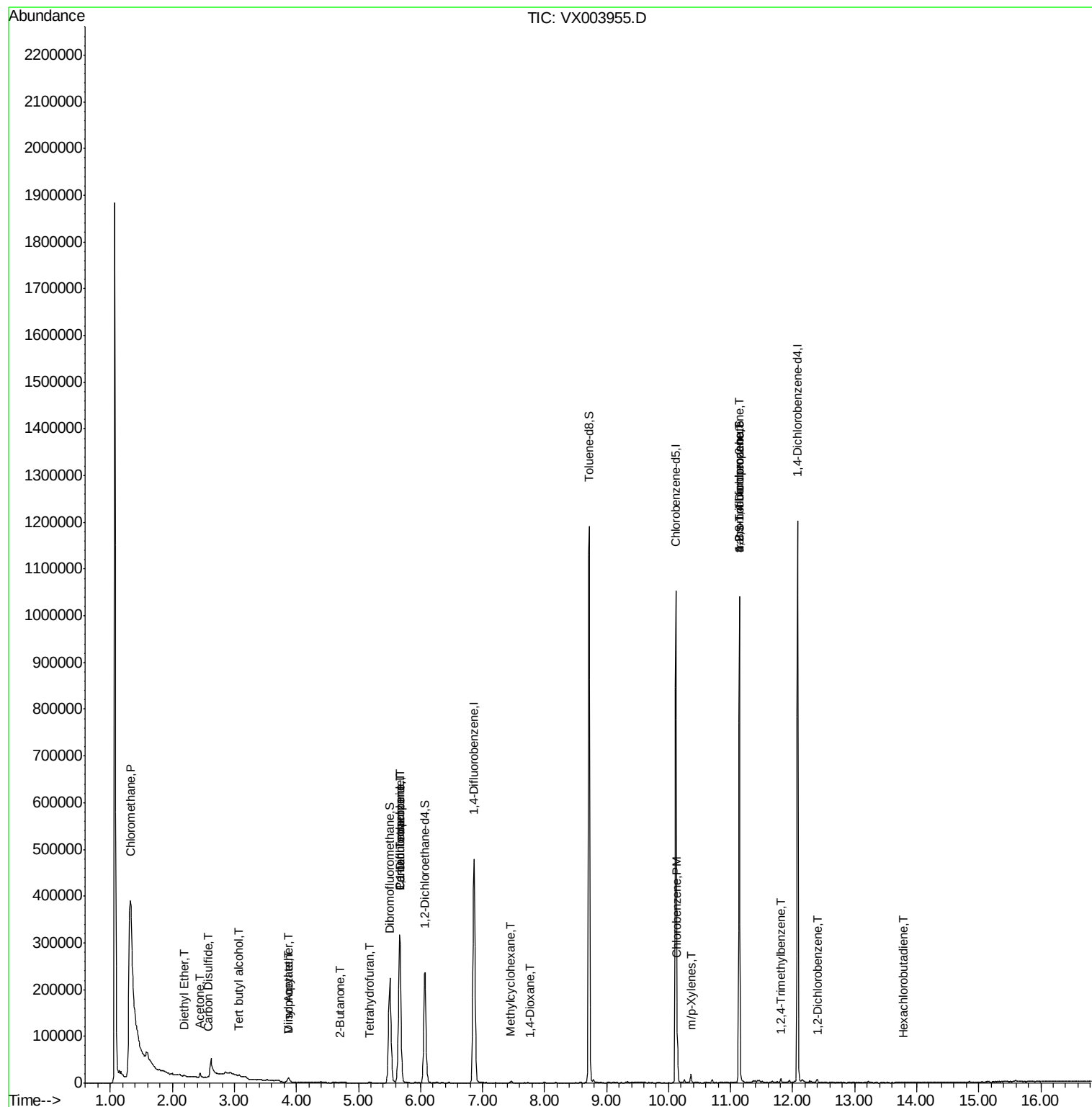
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	34327	7.74	ug/l #	45
5) Bromomethane	1.65	94	882	Below Cal		94
8) Diethyl Ether	2.19	74	1046	0.40	ug/l	97
11) Tert butyl alcohol	3.07	59	2622	2.56	ug/l #	80
13) Acrolein	2.30	56	47	Below Cal	#	1
16) Acetone	2.45	43	8509	3.35	ug/l	94
17) Carbon Disulfide	2.57	76	3913	0.84	ug/l	96
20) Methylene Chloride	2.86	84	1656	Below Cal	#	94
22) Diisopropyl ether	3.87	45	10582	0.86	ug/l	91
23) Vinyl Acetate	3.87	43	5489	0.54	ug/l #	71
25) 2-Butanone	4.70	43	1365	0.36	ug/l #	78
29) Tetrahydrofuran	5.19	42	634	0.32	ug/l #	55
36) 1,1-Dichloropropene	5.67	75	21469	3.82	ug/l #	48
38) Carbon Tetrachloride	5.66	117	28581	5.34	ug/l #	15
39) Methylcyclohexane	7.46	83	1498	0.23	ug/l #	77
49) 1,4-Dioxane	7.76	88	44	0.39	ug/l #	1
65) Chlorobenzene	10.14	112	38398	3.07	ug/l	98
68) m/p-Xylenes	10.36	106	4285	0.54	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	121919	21.29	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	121919	57.57	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	3327	0.21	ug/l	99
88) 1,4-Dichlorobenzene	12.03	146	325	Below Cal		93
91) 1,2-Dichlorobenzene	12.40	146	1979	0.21	ug/l	95
94) Hexachlorobutadiene	13.79	225	146	0.48	ug/l #	47

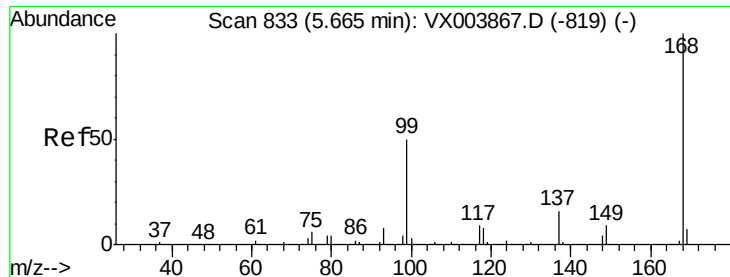
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 10 01:05:12 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 07:45:48 2018
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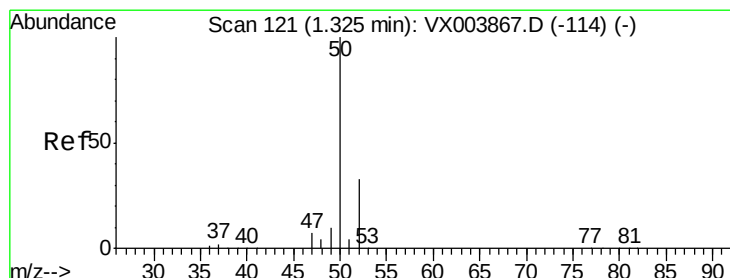
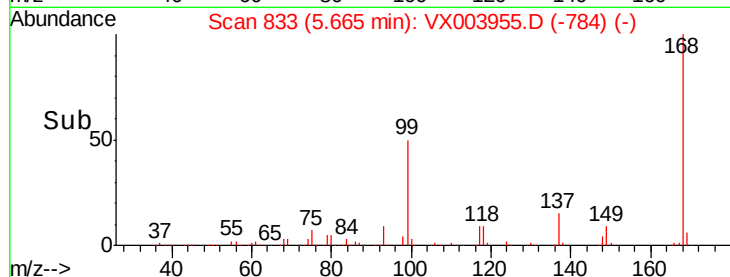
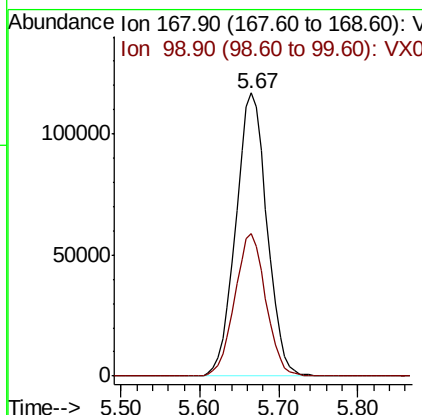
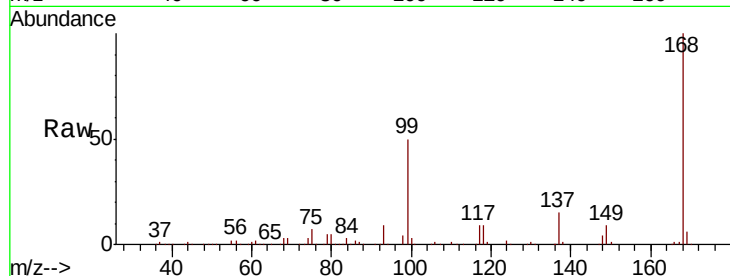




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.00 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

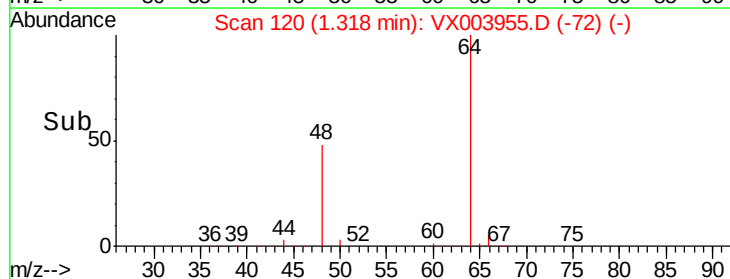
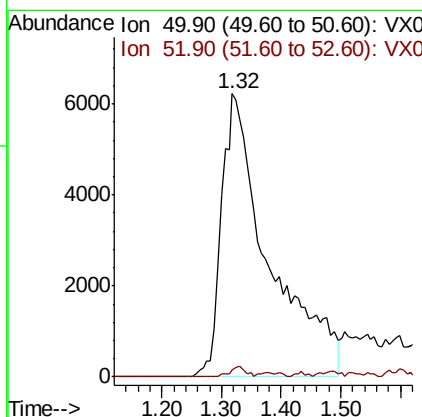
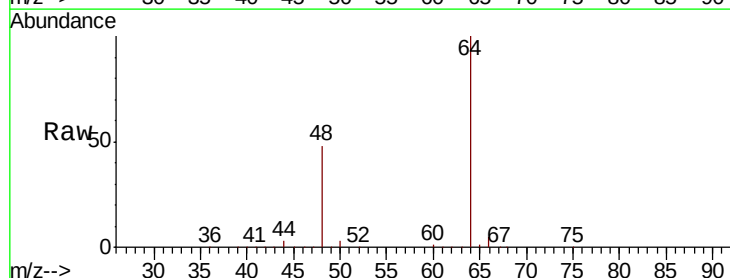
Instrument :
MSVOA_X
ClientSampleId :
MW-105S

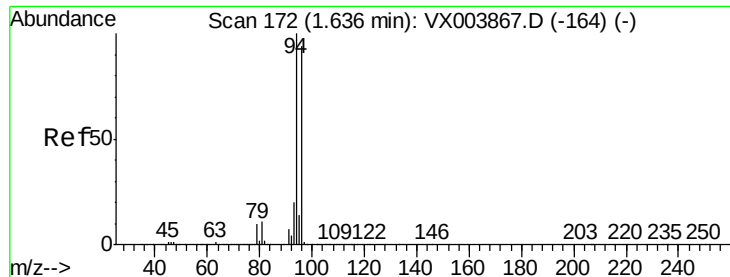
Tot Ion:168 Resp: 321674
Ion Ratio Lower Upper
168 100
99 50.3 40.1 60.1



#3
Chloromethane
Concen: 7.74 ug/l
RT: 1.32 min Scan# 120
Delta R.T. -0.01 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

Tgt Ion: 50 Resp: 34327
Ion Ratio Lower Upper
50 100
52 2.3 26.6 39.8#





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003955.D

Acq: 09 Aug 2018 17:17

Instrument :

MSVOA_X

ClientSampleId :

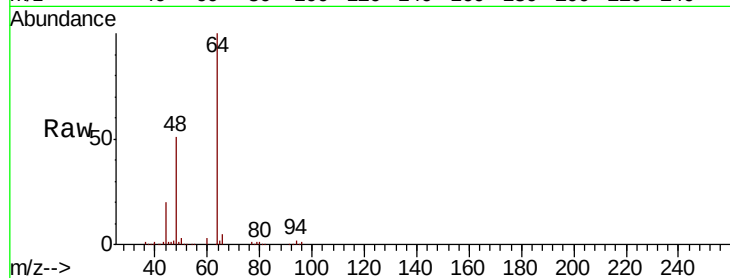
MW-105S

Tot Ion: 94 Resp: 882

Ion Ratio Lower Upper

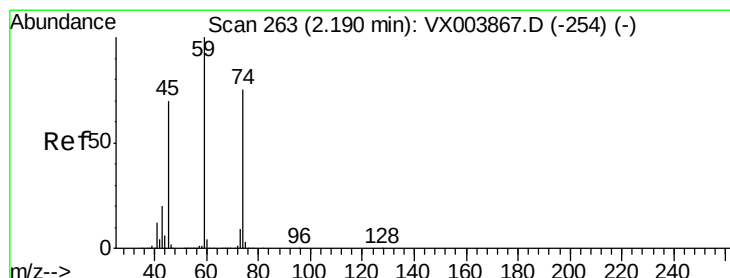
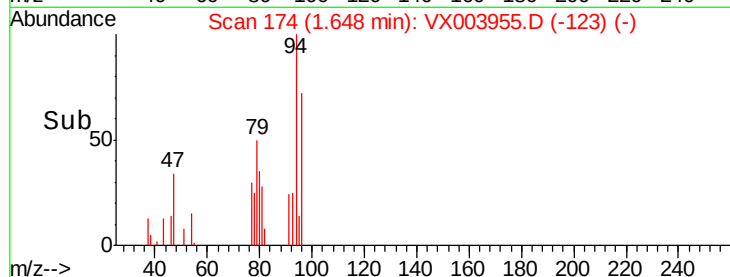
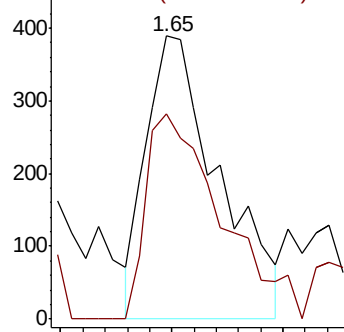
94 100

96 88.7 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: 0.40 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX003955.D

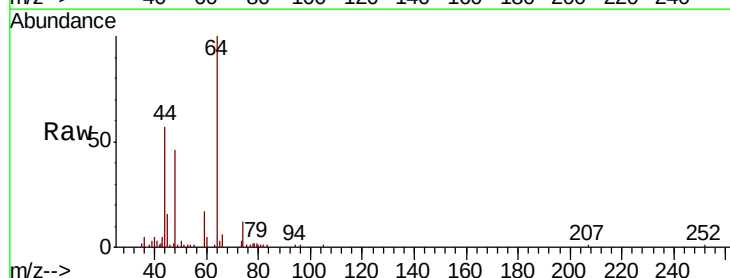
Acq: 09 Aug 2018 17:17

Tgt Ion: 74 Resp: 1046

Ion Ratio Lower Upper

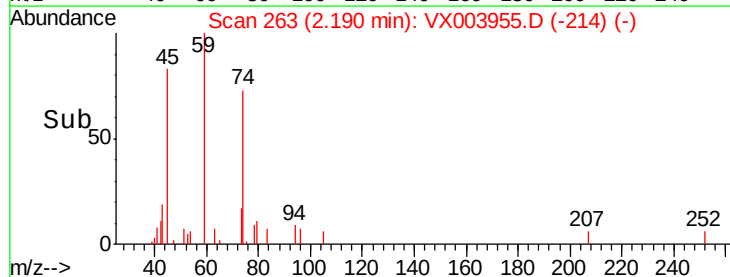
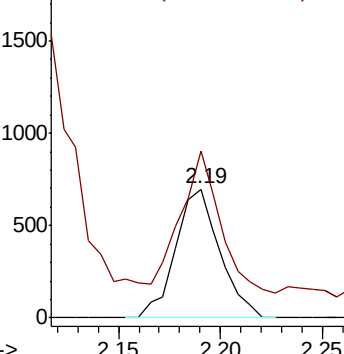
74 100

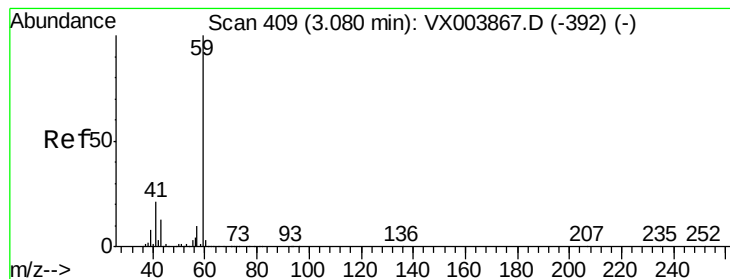
45 99.5 48.3 144.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#11

Tert butyl alcohol

Concen: 2.56 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX003955.D

Acq: 09 Aug 2018 17:17

Instrument :

MSVOA_X

ClientSampleId :

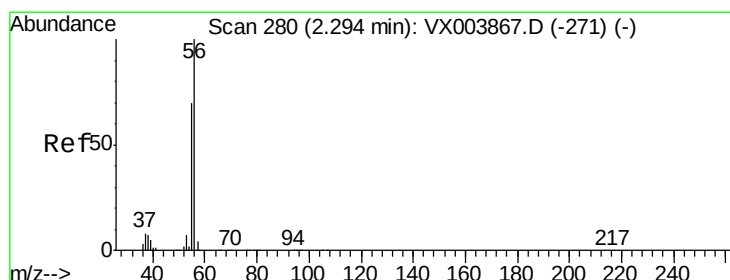
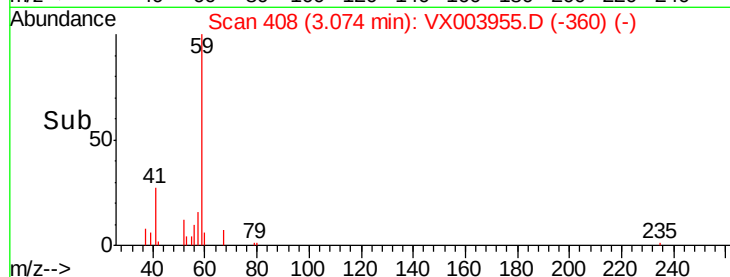
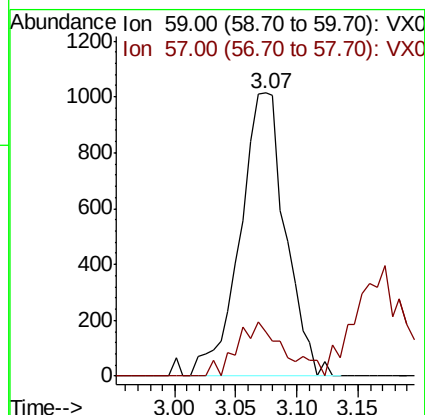
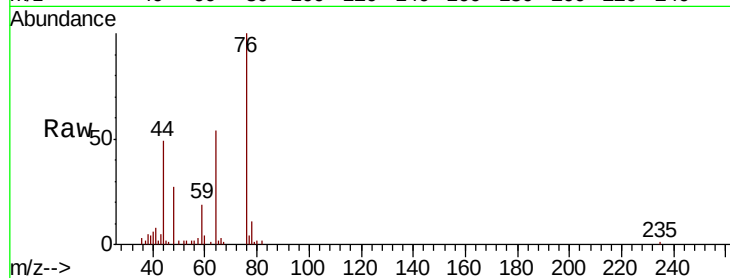
MW-105S

Tot Ion: 59 Resp: 2622

Ion Ratio Lower Upper

59 100

57 17.5 8.1 12.1#



#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003955.D

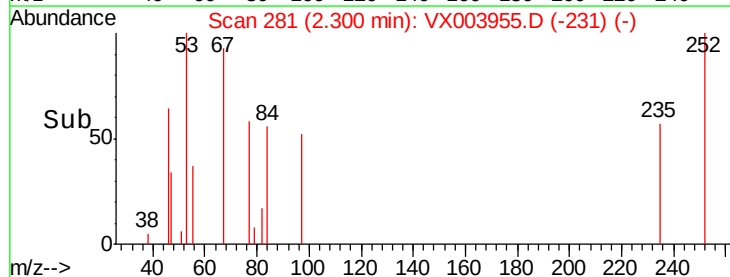
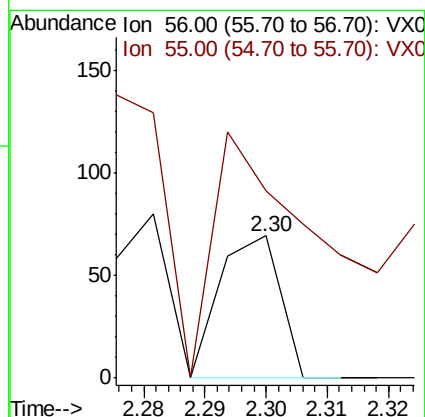
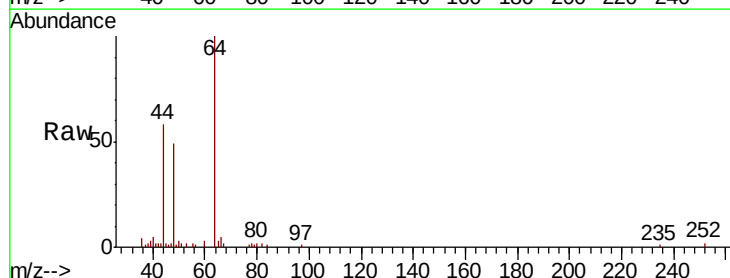
Acq: 09 Aug 2018 17:17

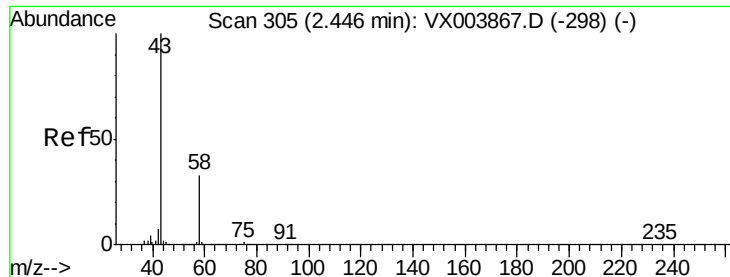
Tgt Ion: 56 Resp: 47

Ion Ratio Lower Upper

56 100

55 308.5 56.1 84.1#





#16

Acetone

Concen: 3.35 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003955.D

Acq: 09 Aug 2018 17:17

Instrument :

MSVOA_X

ClientSampleId :

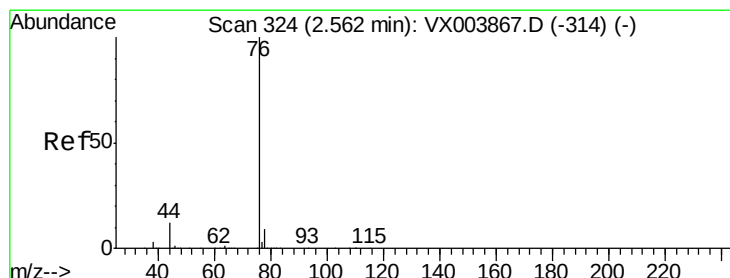
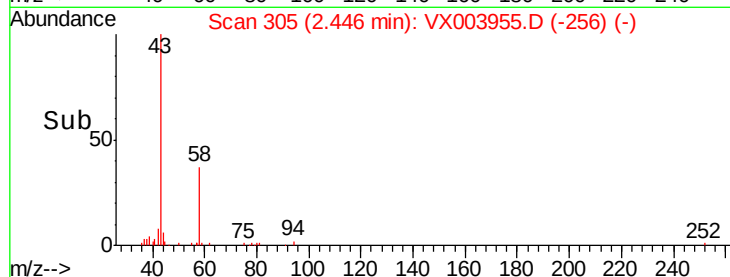
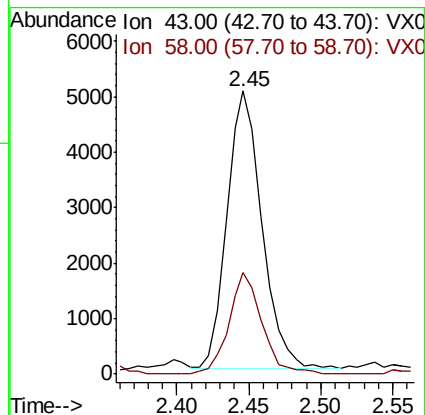
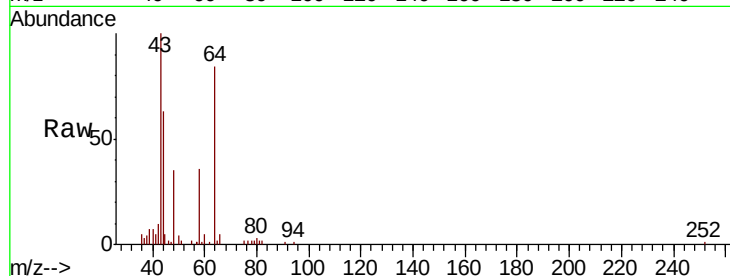
MW-105S

Tot Ion: 43 Resp: 8509

Ion Ratio Lower Upper

43 100

58 36.6 26.4 39.6



#17

Carbon Disulfide

Concen: 0.84 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003955.D

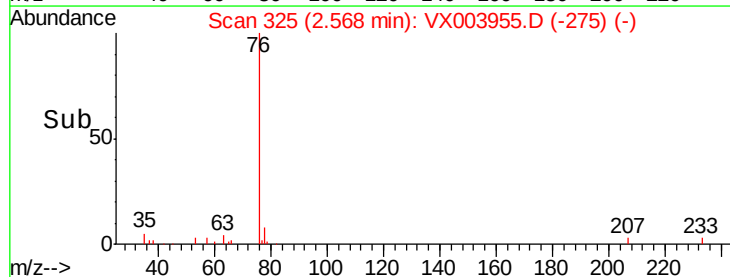
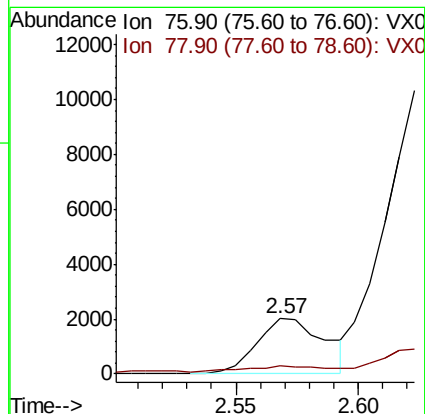
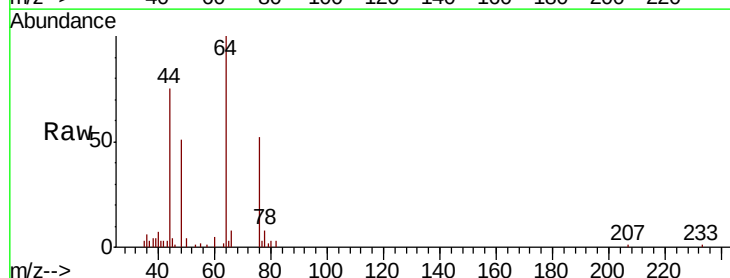
Acq: 09 Aug 2018 17:17

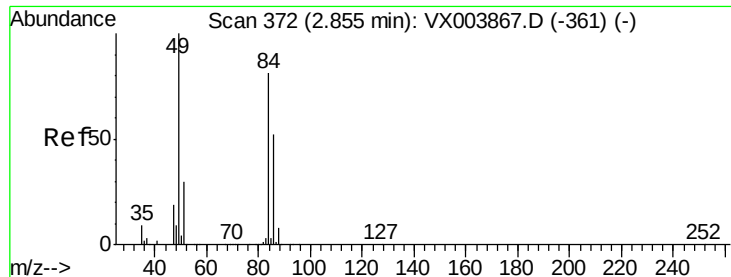
Tgt Ion: 76 Resp: 3913

Ion Ratio Lower Upper

76 100

78 10.7 7.5 11.3

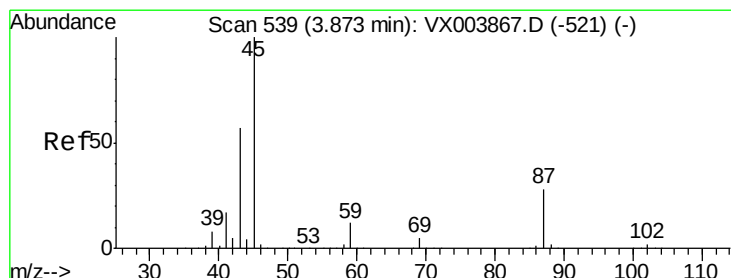
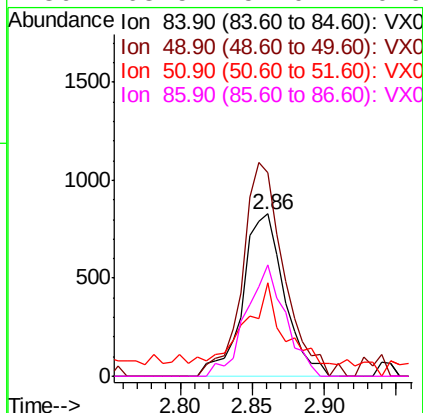
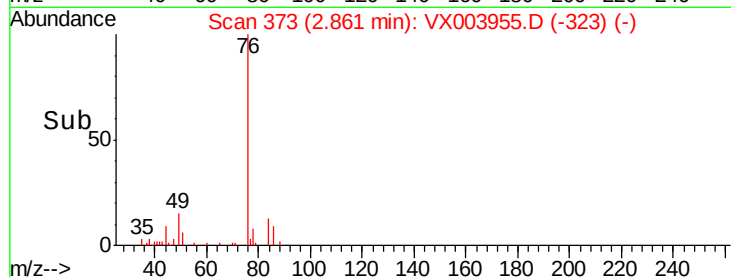
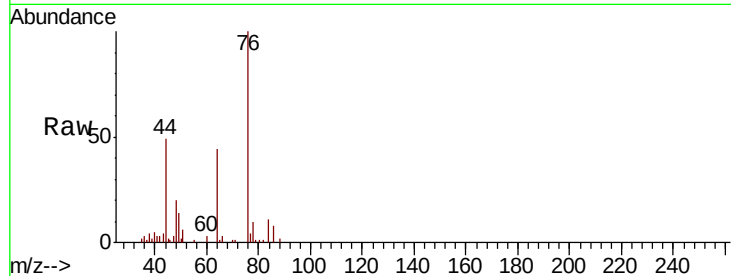




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

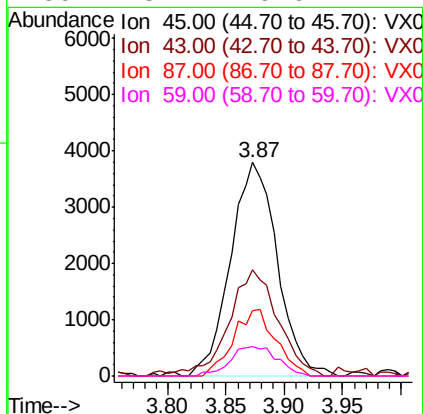
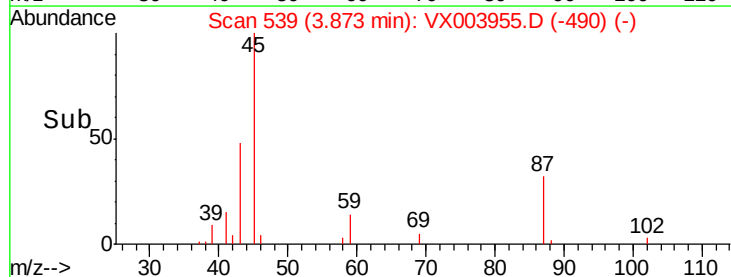
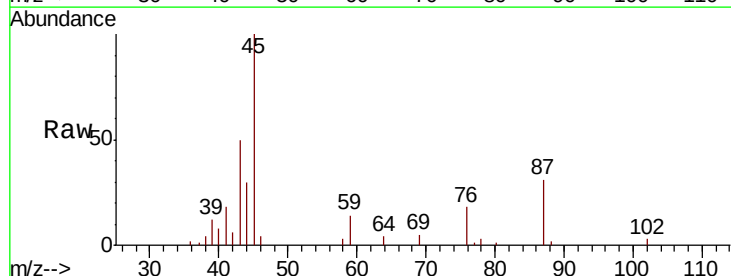
Instrument :
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ClientSampleId :
MW-105S

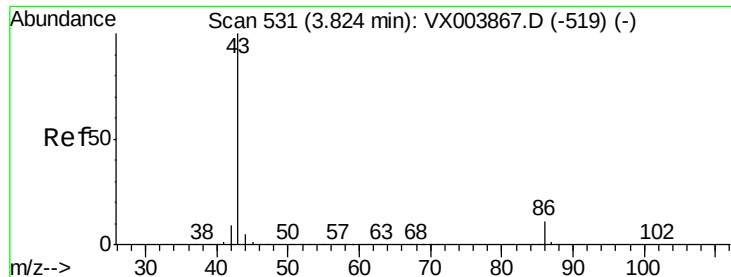
Tot Ion	Ratio	Lower	Upper
84	100		
49	125.0	98.9	148.3
51	51.0	29.9	44.9
86	68.5	51.0	76.6



#22
Diisopropyl ether
Concen: 0.86 ug/l
RT: 3.87 min Scan# 539
Delta R.T. -0.00 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

Tgt Ion	Ratio	Lower	Upper
45	100		
43	47.1	45.3	67.9
87	30.7	22.7	34.1
59	13.7	9.6	14.4





#23

Vinyl Acetate

Concen: 0.54 ug/l

RT: 3.87 min Scan# 539

Delta R.T. 0.05 min

Lab File: VX003955.D

Acq: 09 Aug 2018 17:17

Instrument :

MSVOA_X

ClientSampleId :

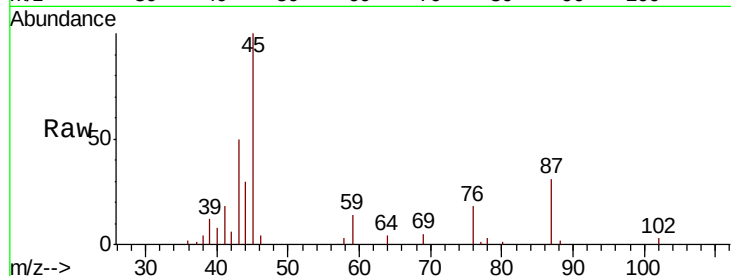
MW-105S

Tot Ion: 43 Resp: 5489

Ion Ratio Lower Upper

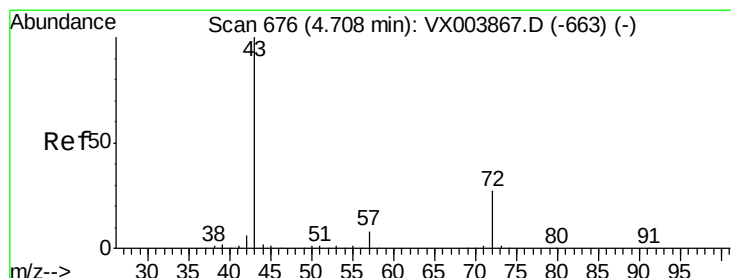
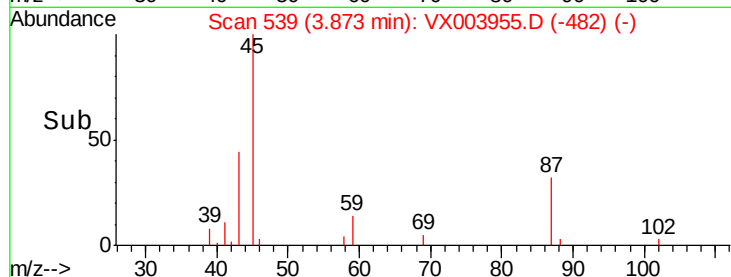
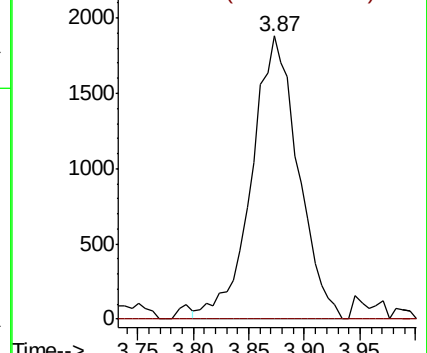
43 100

86 0.0 8.9 13.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#25

2-Butanone

Concen: 0.36 ug/l

RT: 4.70 min Scan# 675

Delta R.T. -0.01 min

Lab File: VX003955.D

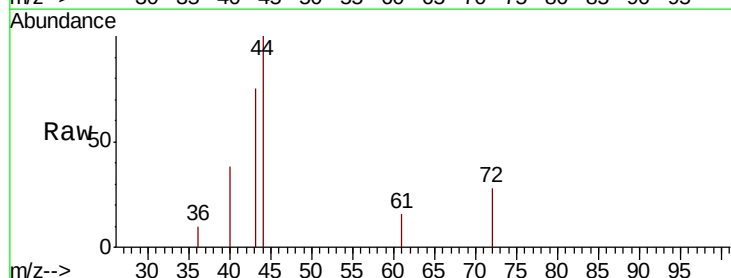
Acq: 09 Aug 2018 17:17

Tgt Ion: 43 Resp: 1365

Ion Ratio Lower Upper

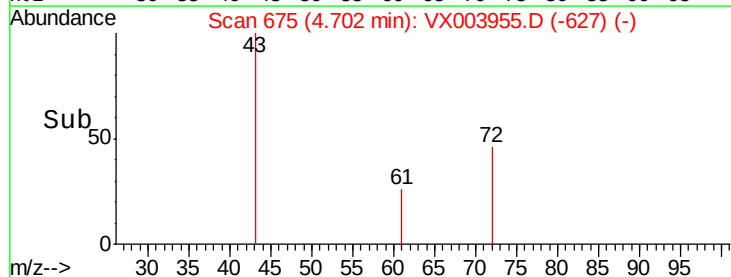
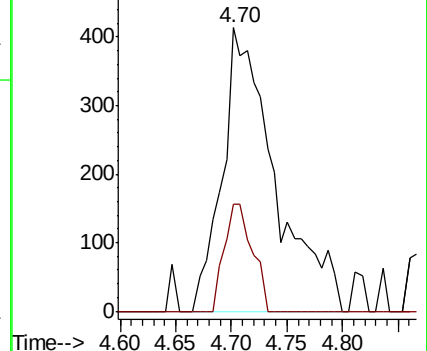
43 100

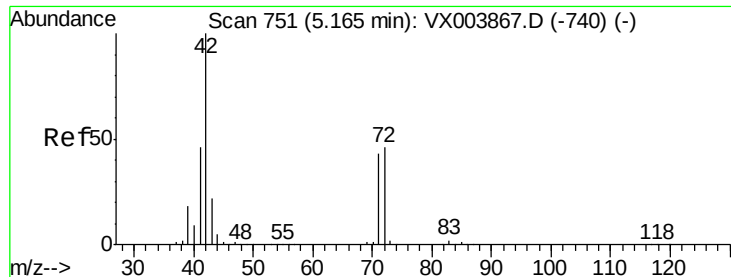
72 38.0 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

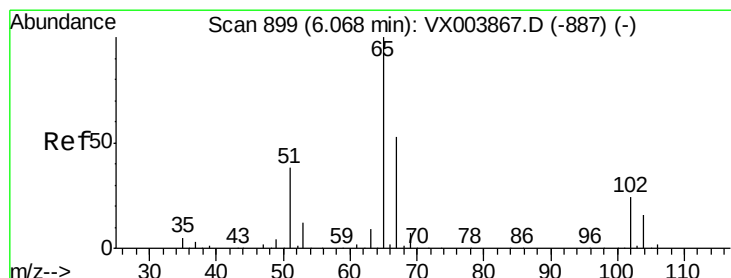
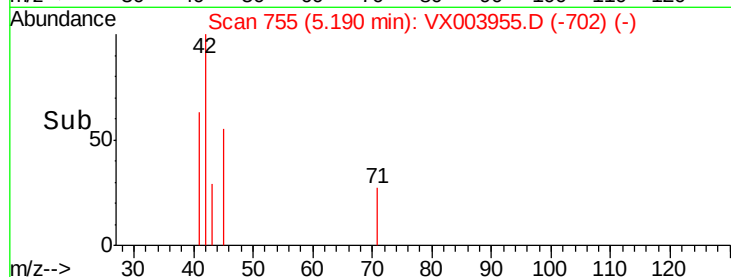
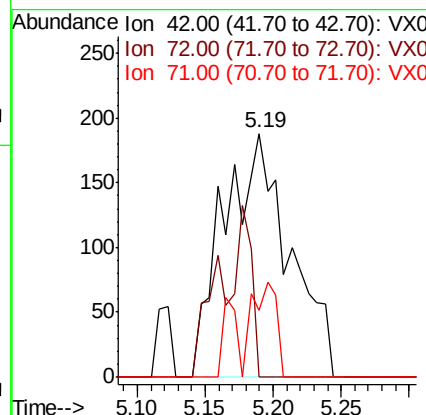
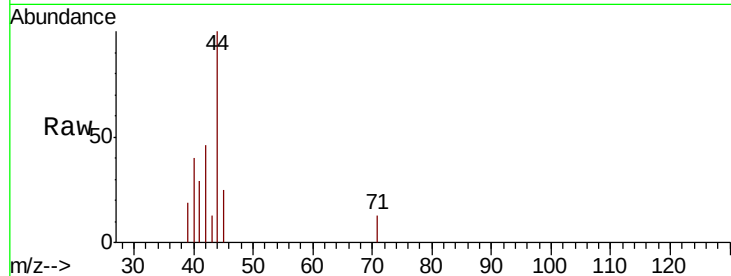




#29
Tetrahydrofuran
Concen: 0.32 ug/l
RT: 5.19 min Scan# 755
Delta R.T. 0.02 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

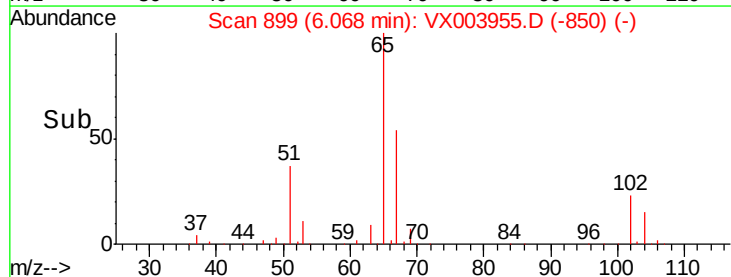
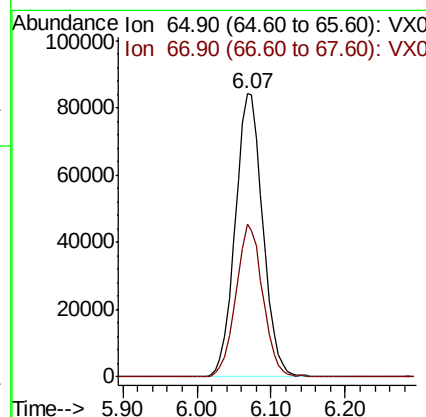
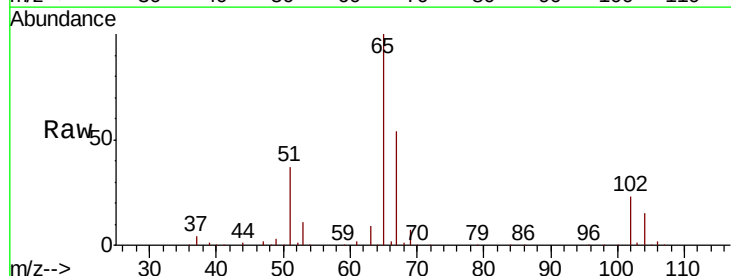
Instrument :
MSVOA_X
ClientSampleId :
MW-105S

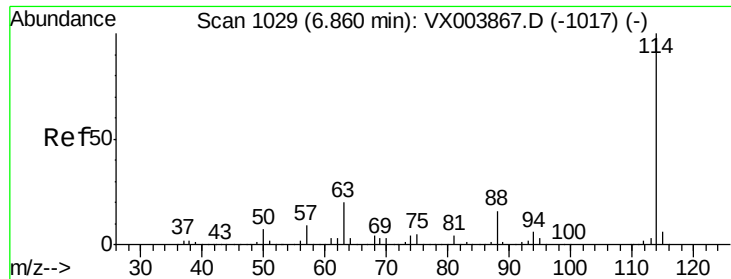
Tot Ion: 42 Resp: 634
Ion Ratio Lower Upper
42 100
72 17.0 37.7 56.5#
71 14.5 35.0 52.6#



#33
1,2-Dichloroethane-d4
Concen: 51.29 ug/l
RT: 6.07 min Scan# 899
Delta R.T. -0.00 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

Tgt Ion: 65 Resp: 218699
Ion Ratio Lower Upper
65 100
67 52.6 0.0 105.8

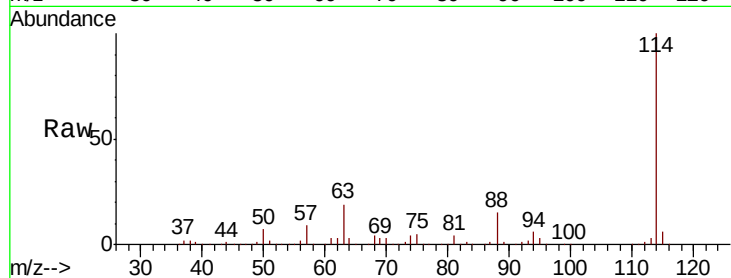




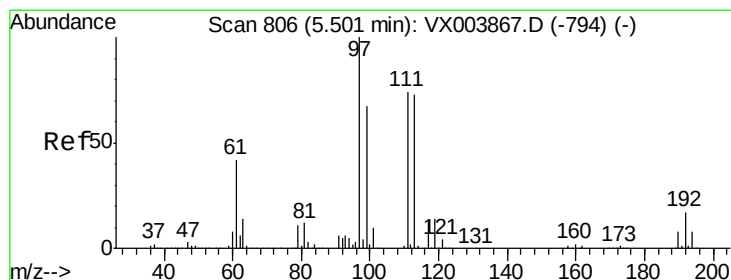
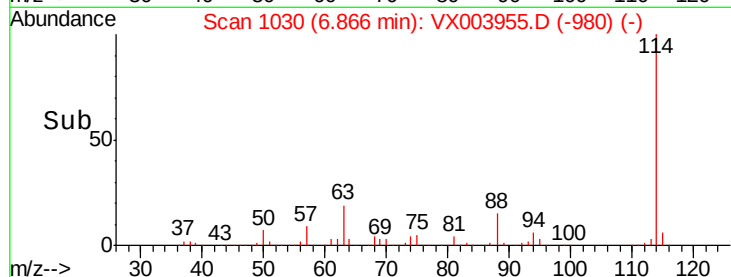
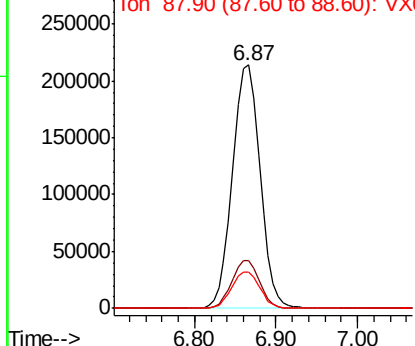
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.87 min Scan# 1030
Delta R.T. 0.01 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

Instrument :
MSVOA_X
ClientSampled :
MW-105S

Tot Ion:114 Resp: 501969
Ion Ratio Lower Upper
114 100
63 19.5 0.0 39.0
88 14.9 0.0 32.0

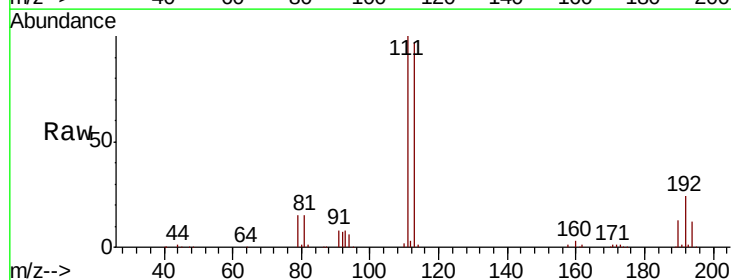


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

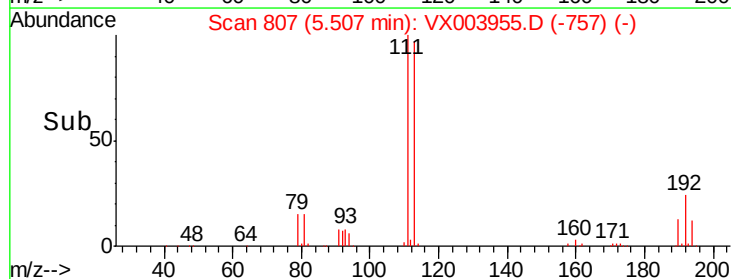
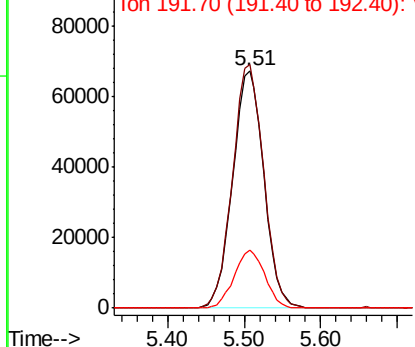


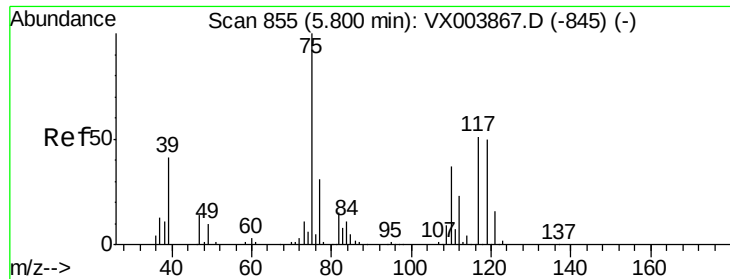
#35
Dibromofluoromethane
Concen: 49.95 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.01 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

Tgt Ion:113 Resp: 189964
Ion Ratio Lower Upper
113 100
111 102.5 82.0 123.0
192 24.2 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

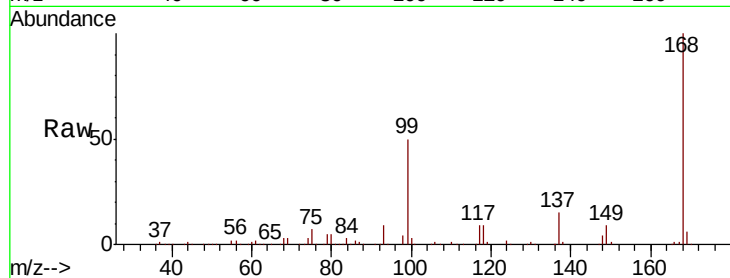




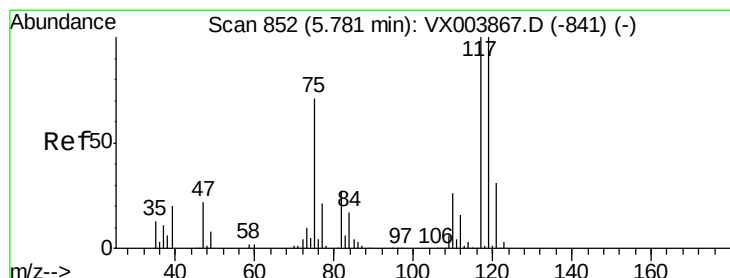
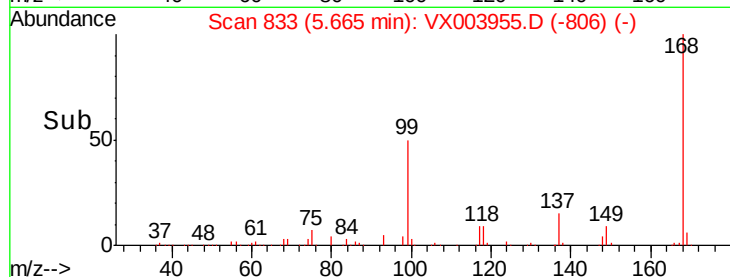
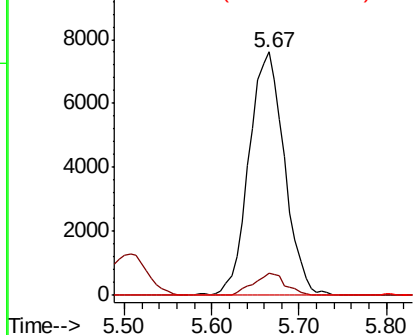
#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003955.D
 Acq: 09 Aug 2018 17:17

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-105S

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.2	54.6#
77	0.0	25.0	37.4#

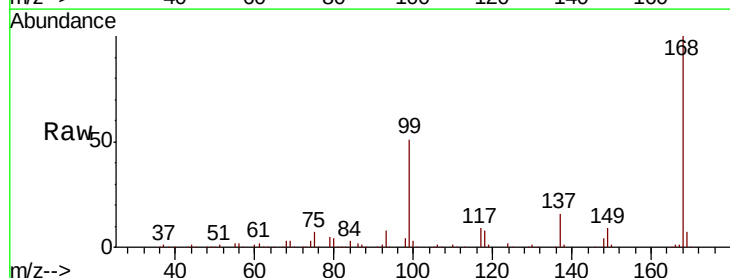


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

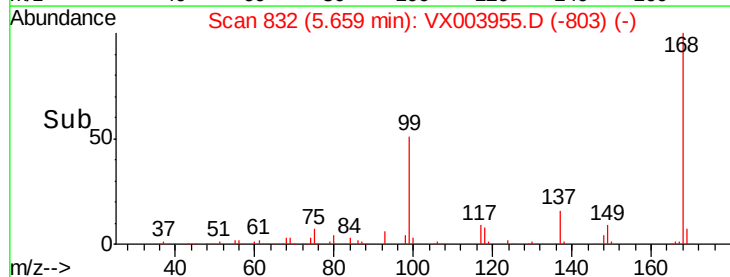
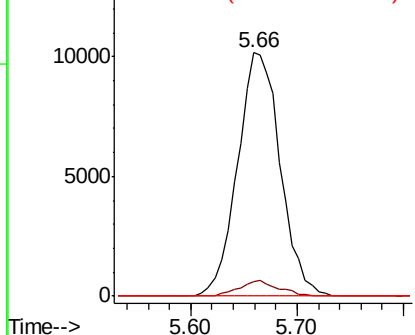


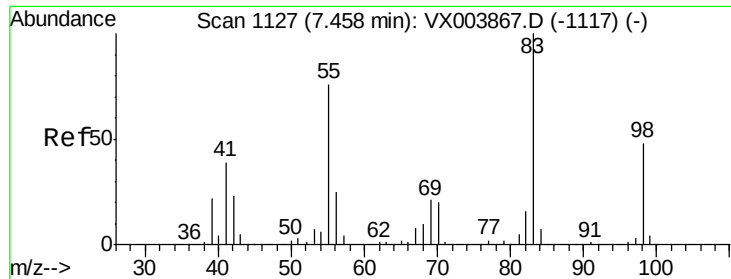
#38
 Carbon Tetrachloride
 Concen: 5.34 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.12 min
 Lab File: VX003955.D
 Acq: 09 Aug 2018 17:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	79.5	119.3#
121	0.0	25.0	37.4#



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



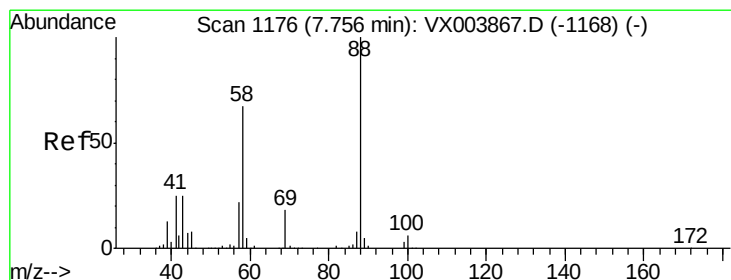
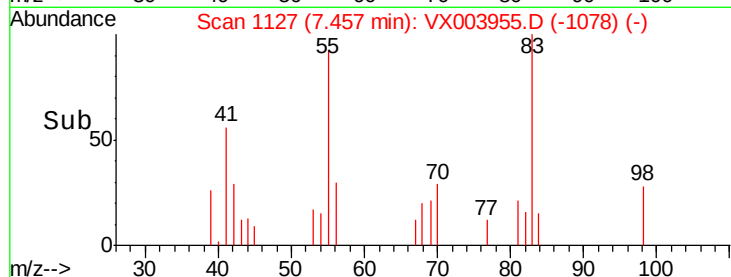
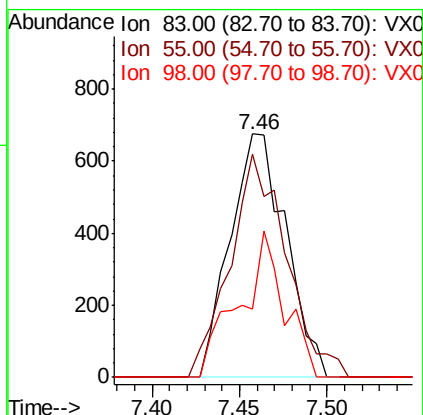
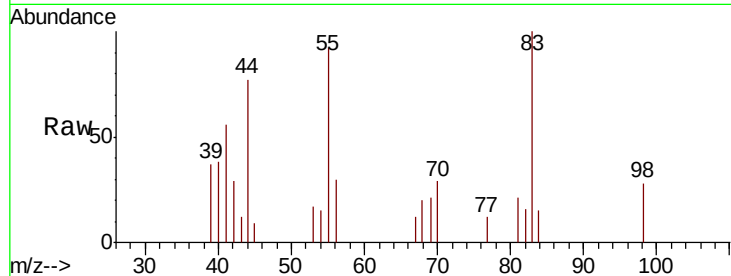


#39
Methylvlcyclohexane
Concen: 0.23 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.00 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

Instrument :
MSVOA_X
ClientSampleId :
MW-105S

Tot Ion: 83 Resp: 1498

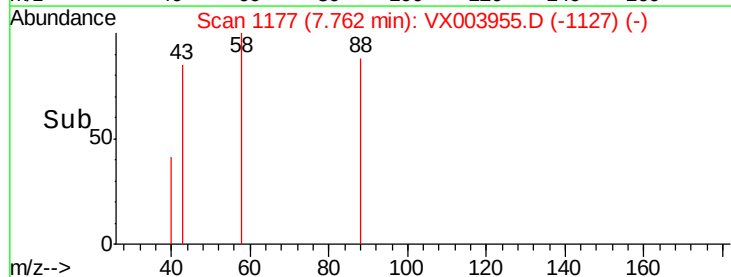
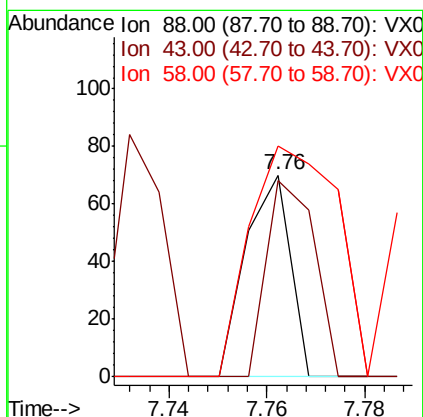
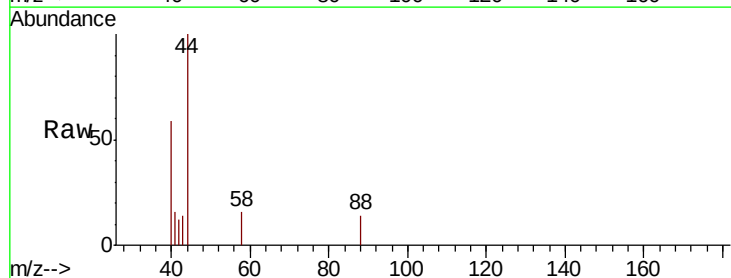
Ion	Ratio	Lower	Upper
83	100		
55	91.7	61.0	91.6#
98	27.8	38.6	57.8#

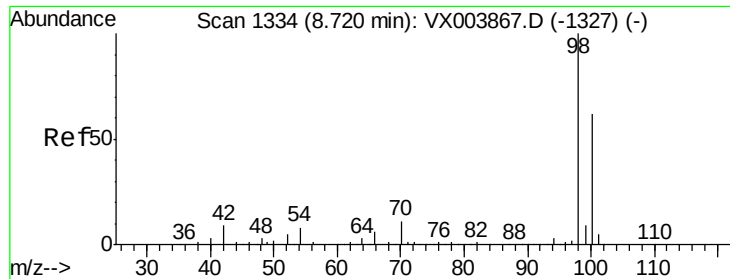


#49
1,4-Dioxane
Concen: 0.39 ug/l
RT: 7.76 min Scan# 1177
Delta R.T. 0.01 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

Tgt Ion: 88 Resp: 44

Ion	Ratio	Lower	Upper
88	100		
43	104.5	23.8	35.8#
58	272.7	55.4	83.0#

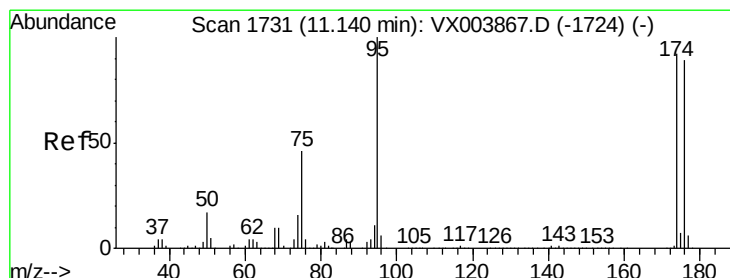
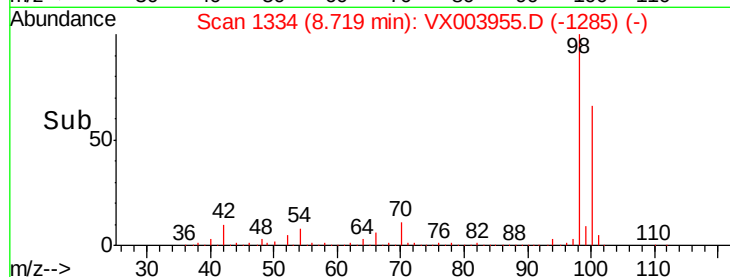
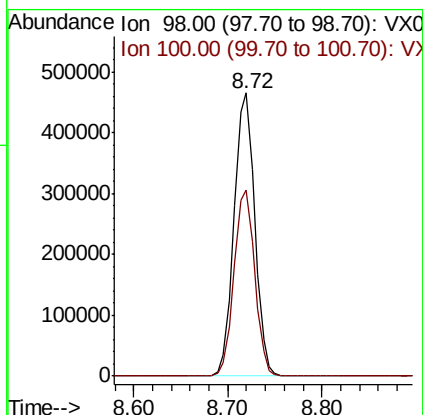
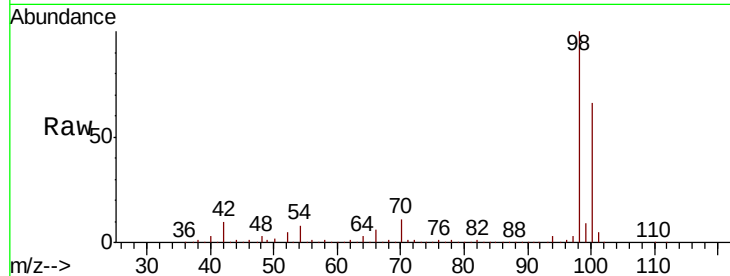




#50
Toluene-d8
Concen: 48.01 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

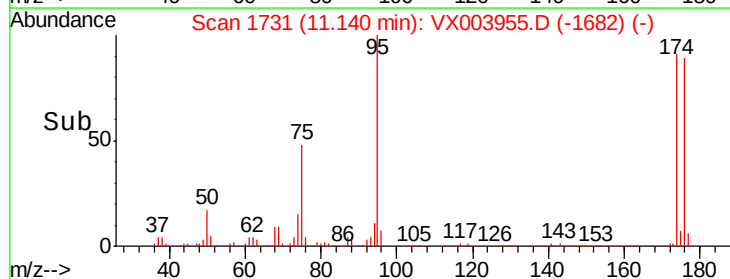
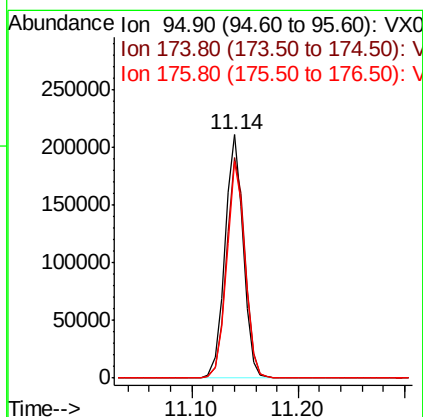
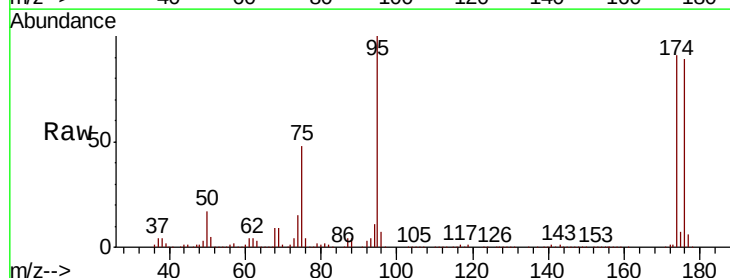
Instrument :
MSVOA_X
ClientSampleId :
MW-105S

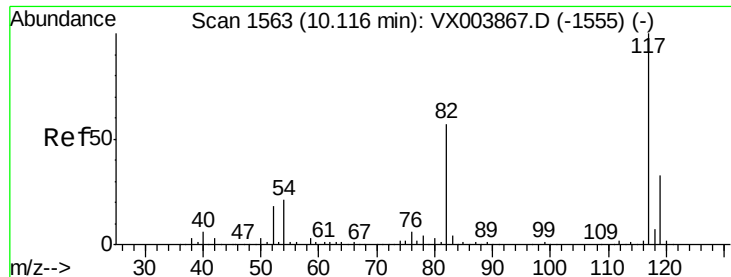
Tot Ion: 98 Resp: 709988
Ion Ratio Lower Upper
98 100
100 66.0 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 53.04 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

Tgt Ion: 95 Resp: 253810
Ion Ratio Lower Upper
95 100
174 92.8 0.0 182.8
176 88.8 0.0 179.0

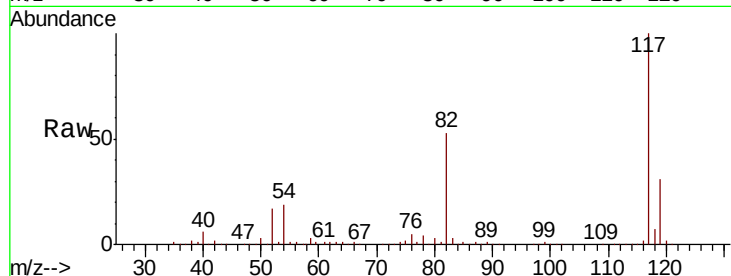




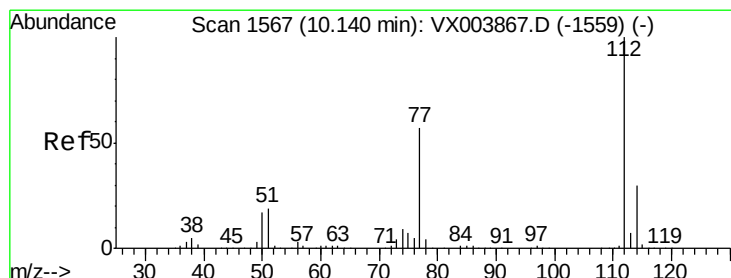
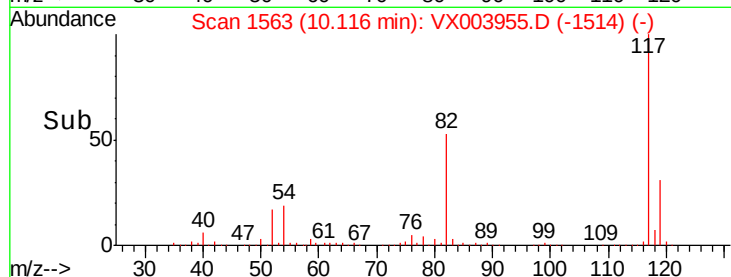
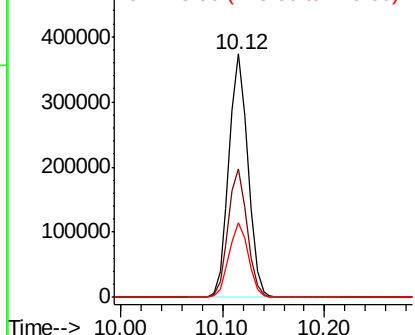
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

Instrument :
MSVOA_X
ClientSampleId :
MW-105S

Tot Ion:117 Resp: 480122
Ion Ratio Lower Upper
117 100
82 52.5 45.4 68.0
119 30.6 26.6 40.0

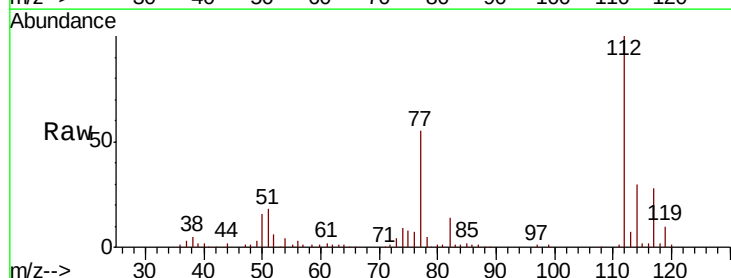


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

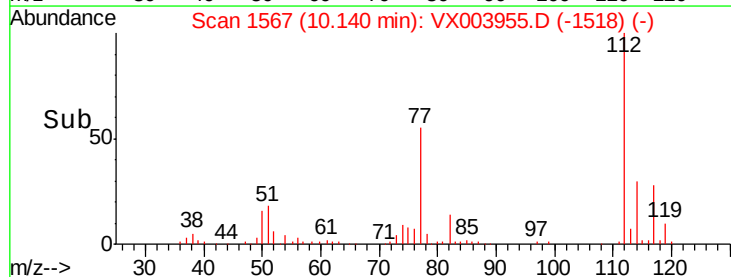
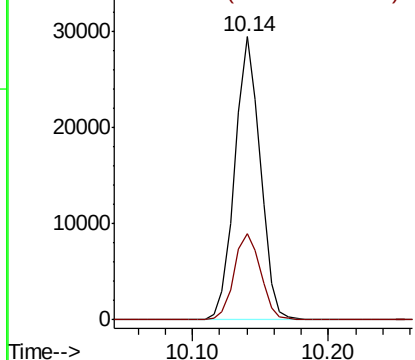


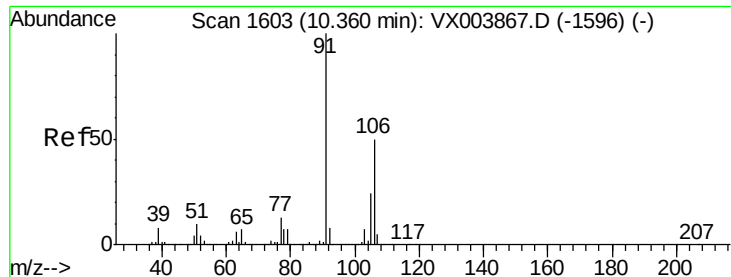
#65
Chlorobenzene
Concen: 3.07 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

Tgt Ion:112 Resp: 38398
Ion Ratio Lower Upper
112 100
114 30.4 23.6 35.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

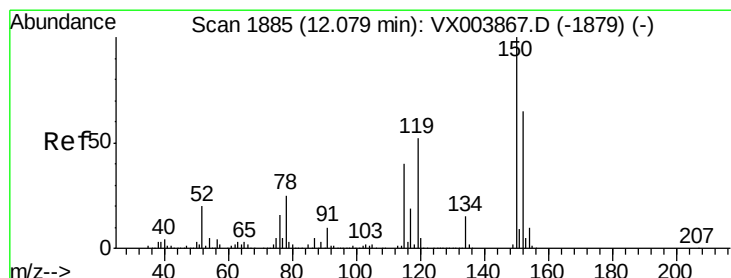
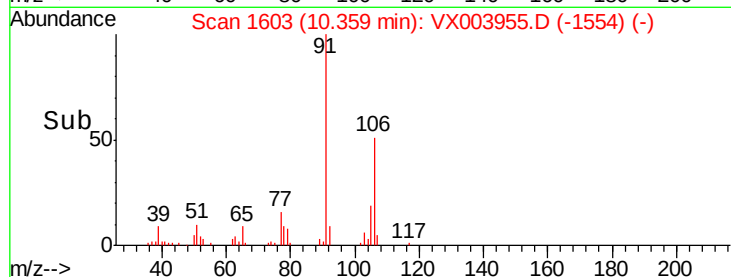
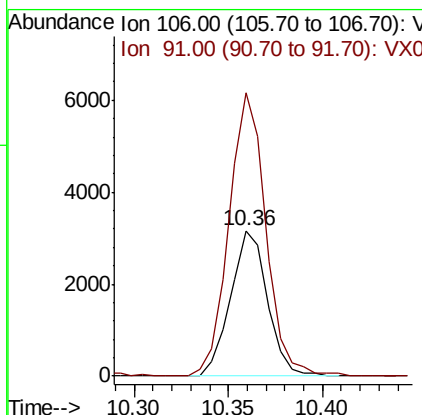
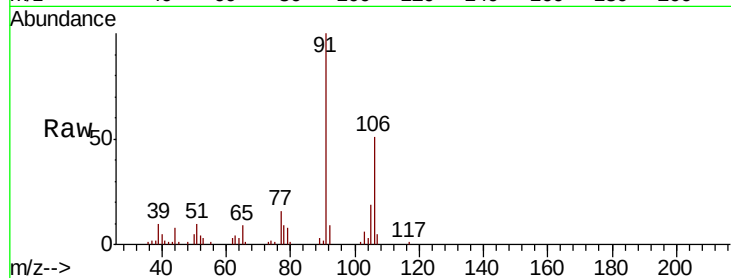




#68
m/p-Xvlenes
Concen: 0.54 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

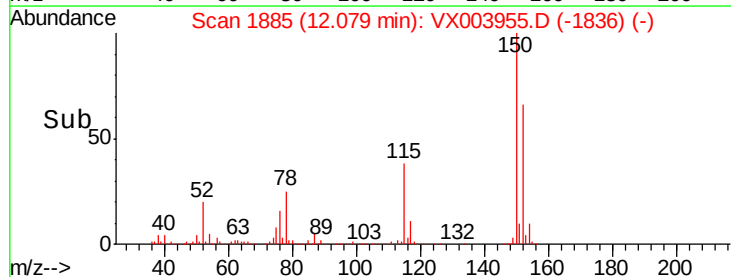
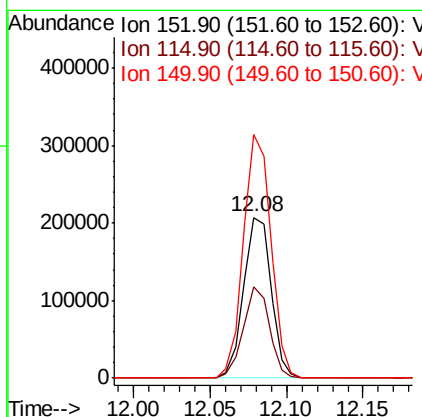
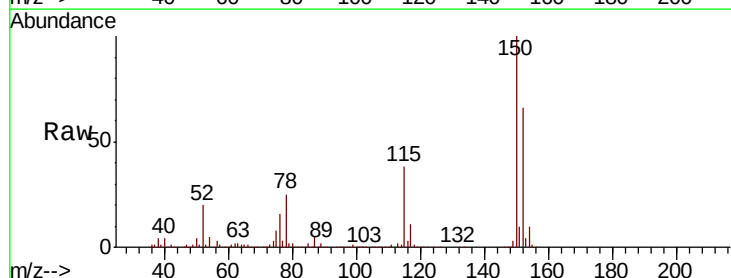
Instrument :
MSVOA_X
ClientSampleId :
MW-105S

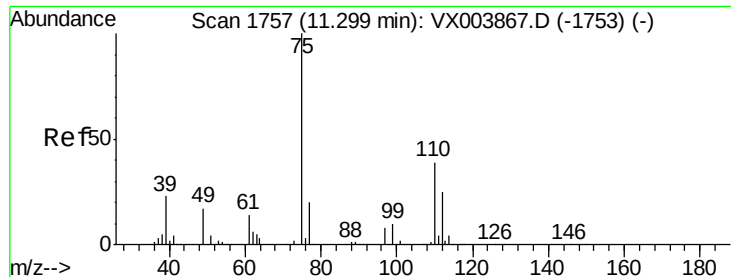
Tot Ion:106 Resp: 4285
Ion Ratio Lower Upper
106 100
91 194.8 162.3 243.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX003955.D
Acq: 09 Aug 2018 17:17

Tgt Ion:152 Resp: 259224
Ion Ratio Lower Upper
152 100
115 54.4 39.1 117.3
150 152.3 0.0 349.2





#76

1,2,3-Trichloropropane

Concen: 21.29 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003955.D

Acq: 09 Aug 2018 17:17

Instrument :

MSVOA_X

ClientSampleId :

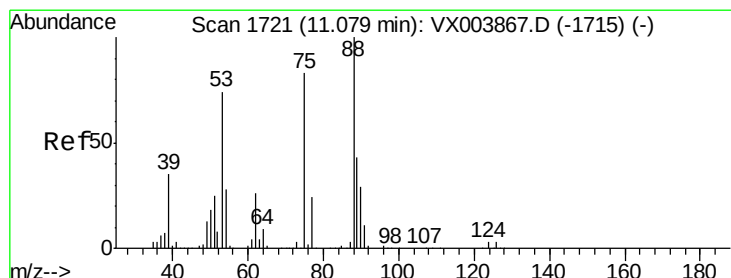
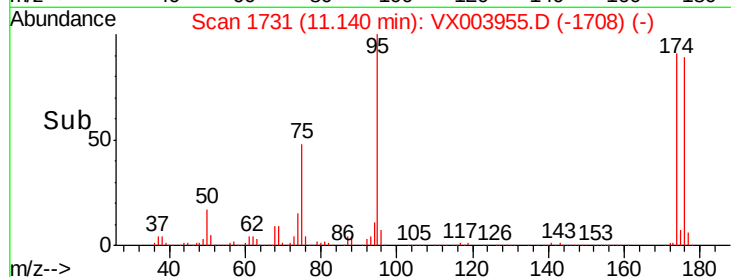
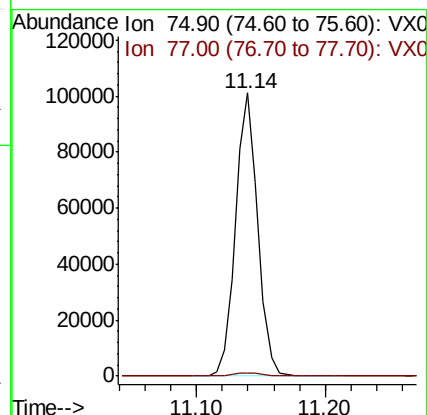
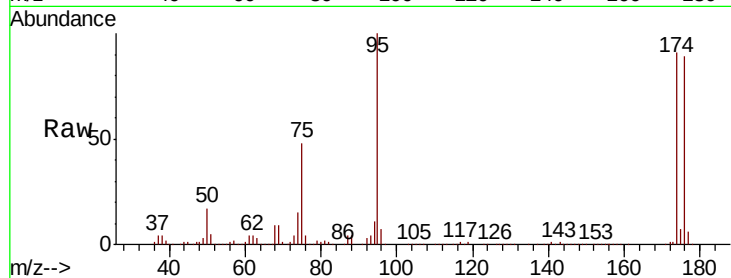
MW-105S

Tot Ion: 75 Resp: 121919

Ion Ratio Lower Upper

75 100

77 1.4 20.8 62.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.57 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003955.D

Acq: 09 Aug 2018 17:17

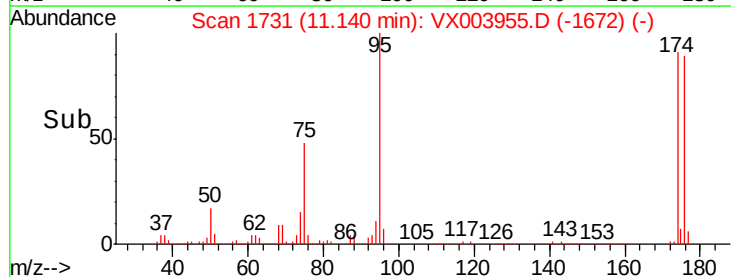
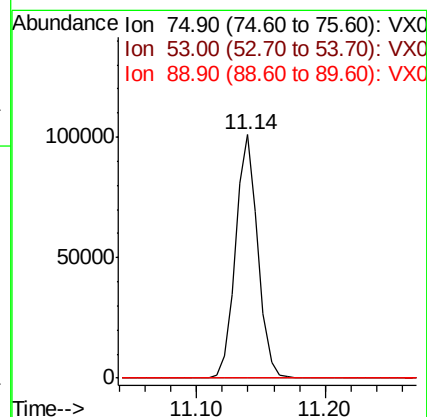
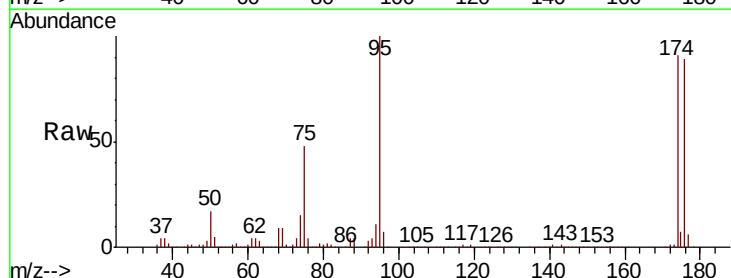
Tgt Ion: 75 Resp: 121919

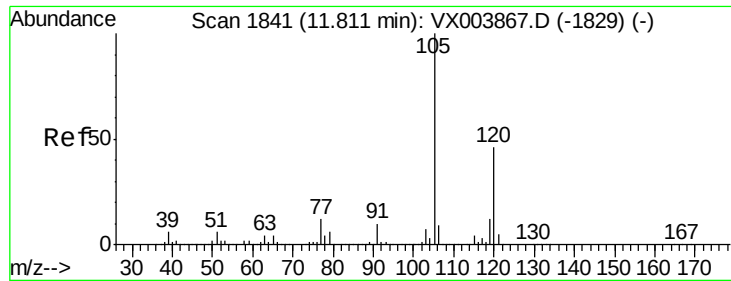
Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

89 0.0 37.8 56.8#

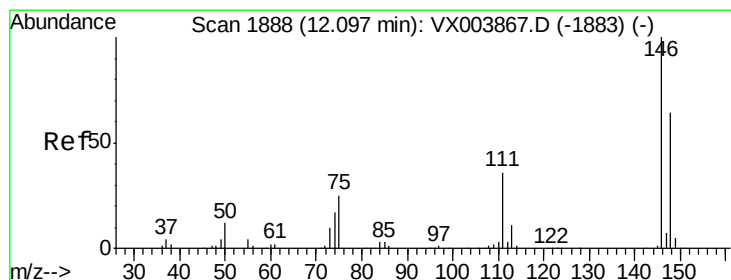
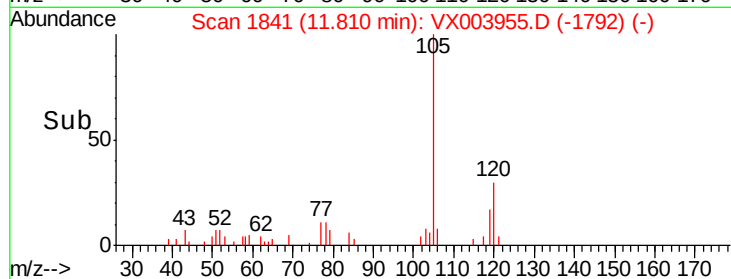
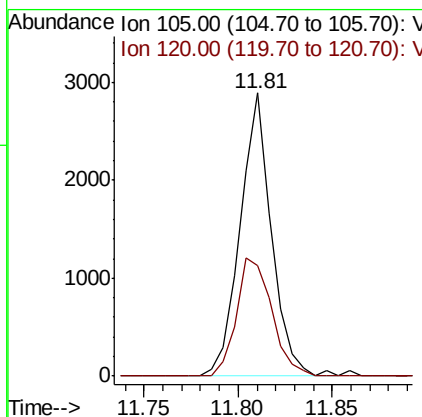
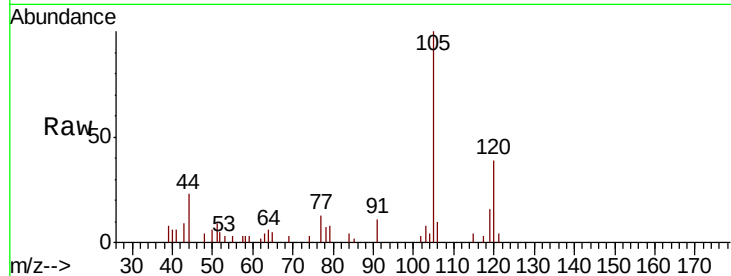




#84
 1,2,4-Trimethylbenzene
 Concen: 0.21 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. -0.00 min
 Lab File: VX003955.D
 Acq: 09 Aug 2018 17:17

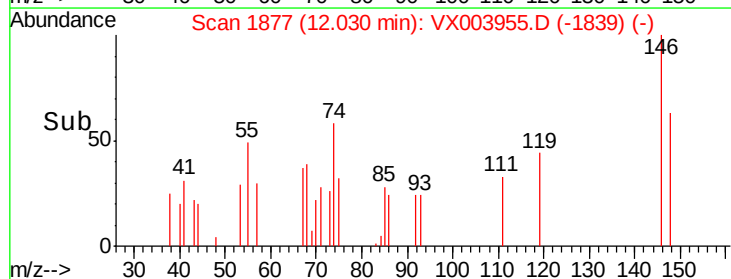
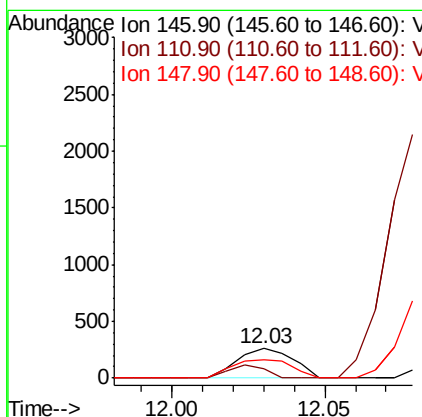
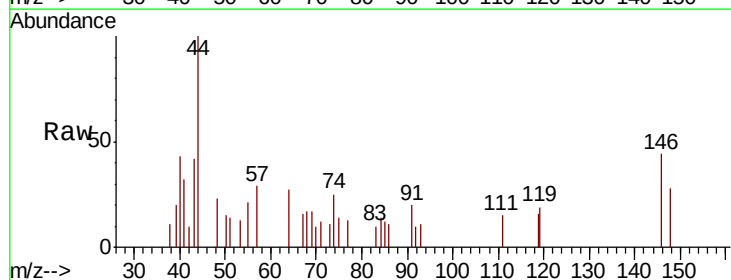
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-105S

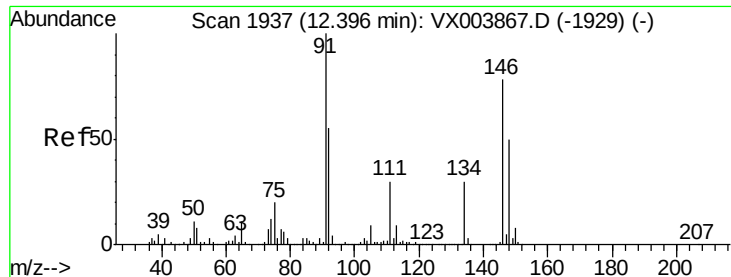
Tot Ion:105 Resp: 3327
 Ion Ratio Lower Upper
 105 100
 120 46.9 23.1 69.2



#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 12.03 min Scan# 1877
 Delta R.T. -0.07 min
 Lab File: VX003955.D
 Acq: 09 Aug 2018 17:17

Tgt Ion:146 Resp: 325
 Ion Ratio Lower Upper
 146 100
 111 29.5 18.4 55.0
 148 68.3 32.3 96.8





#91

1,2-Dichlorobenzene

Concen: 0.21 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VX003955.D

Acq: 09 Aug 2018 17:17

Instrument :

MSVOA_X

ClientSampleId :

MW-105S

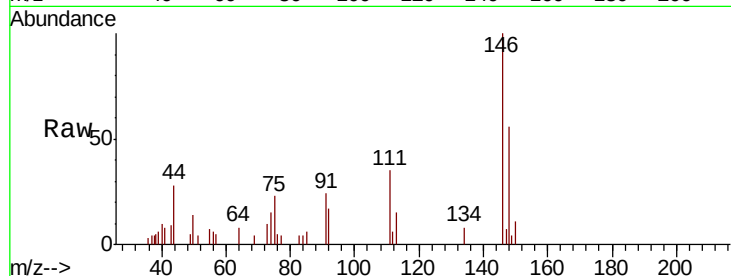
Tot Ion:146 Resp: 1979

Ion Ratio Lower Upper

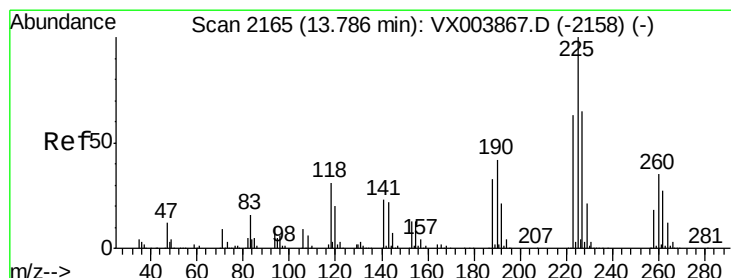
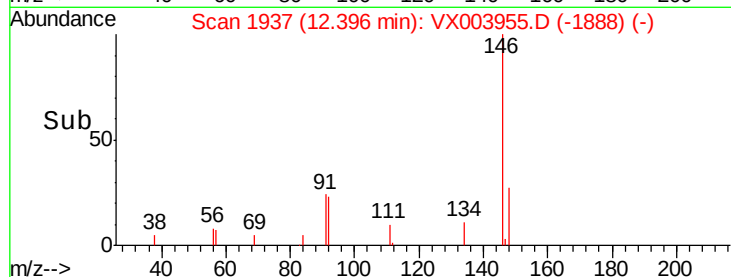
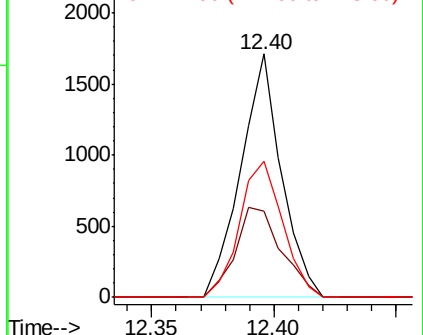
146 100

111 42.1 19.7 59.0

148 59.1 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#94

Hexachlorobutadiene

Concen: 0.48 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003955.D

Acq: 09 Aug 2018 17:17

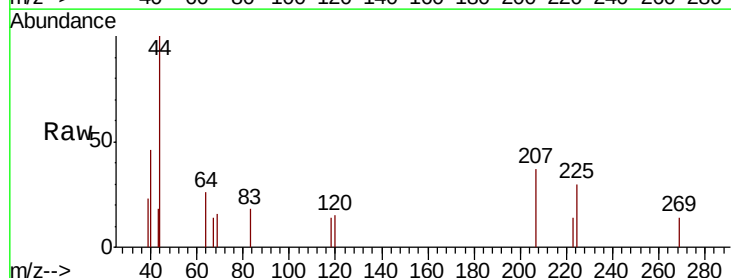
Tgt Ion:225 Resp: 146

Ion Ratio Lower Upper

225 100

223 27.4 31.4 94.0#

227 17.1 32.1 96.5#



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

