

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX080719\
 Data File : VX011373.D
 Acq On : 07 Aug 2019 19:14
 Operator : JC/SP
 Sample : K4220-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-24B_080719

Quant Time: Aug 08 07:06:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	156208	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	251318	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244938	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	115691	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	88681	56.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.74%	
35) Dibromofluoromethane	5.49	113	82581	50.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.66%	
50) Toluene-d8	8.71	98	309552	49.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.96%	
62) 4-Bromofluorobenzene	11.13	95	112045	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	

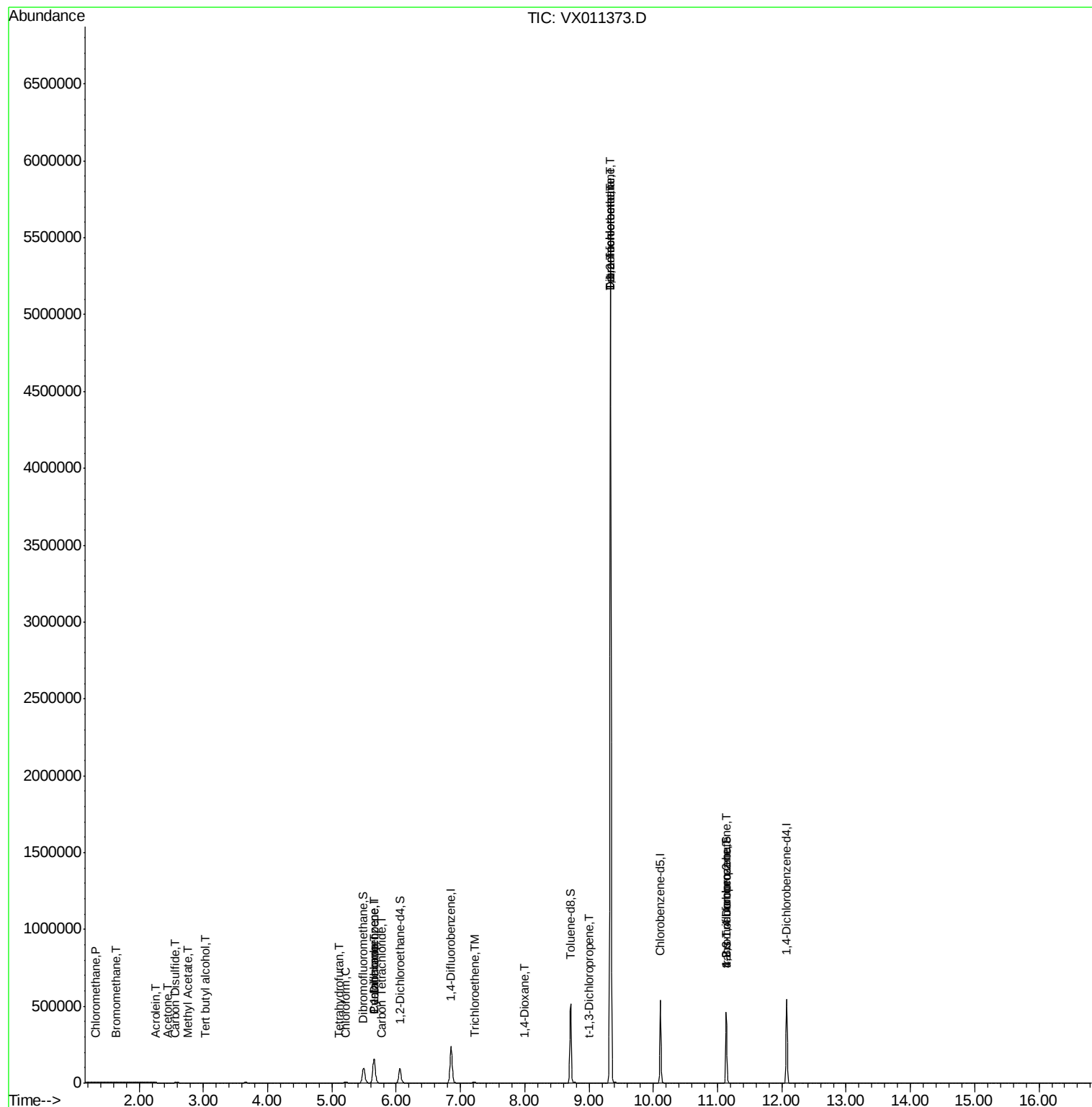
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	367	0.271	ug/l #	76
5) Bromomethane	1.65	94	395	0.372	ug/l	82
6) Chloroethane	1.74	64	297	Below Cal	#	43
11) Tert butyl alcohol	3.04	59	660	2.127	ug/l	96
13) Acrolein	2.27	56	222	0.718	ug/l #	70
16) Acetone	2.44	43	824	1.100	ug/l #	48
17) Carbon Disulfide	2.56	76	4426	1.327	ug/l #	92
18) Methyl Acetate	2.76	43	516	0.302	ug/l #	67
29) Tetrahydrofuran	5.10	42	315	0.482	ug/l #	35
30) Chloroform	5.21	83	6620	2.481	ug/l	87
31) Cyclohexane	5.65	56	3086	1.523	ug/l #	32
36) 1,1-Dichloropropene	5.66	75	10765	4.906	ug/l #	49
38) Carbon Tetrachloride	5.77	117	453	0.205	ug/l #	11
44) Trichloroethene	7.21	130	2876	1.451	ug/l	96
49) 1,4-Dioxane	7.99	88	20	0.417	ug/l #	51
53) t-1,3-Dichloropropene	9.01	75	39	2.853	ug/l #	43
55) 1,1,2-Trichloroethane	9.34	97	9147	5.139	ug/l #	1
60) Dibromochloromethane	9.34	129	1007010	552.586	ug/l #	10
64) Tetrachloroethene	9.34	164	1090098	524.059	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	56677	26.901	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	56677	69.856	ug/l #	10

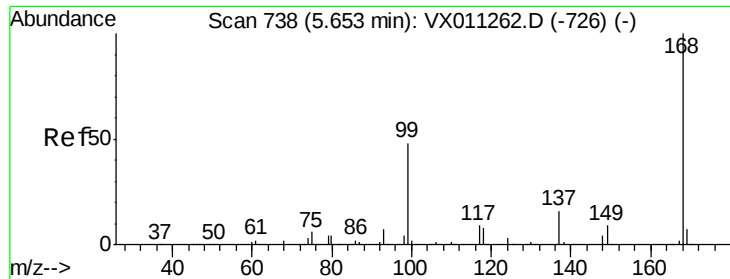
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011373.D

Acq: 07 Aug 2019 19:14

Instrument :

MSVOA_X

ClientSampleId :

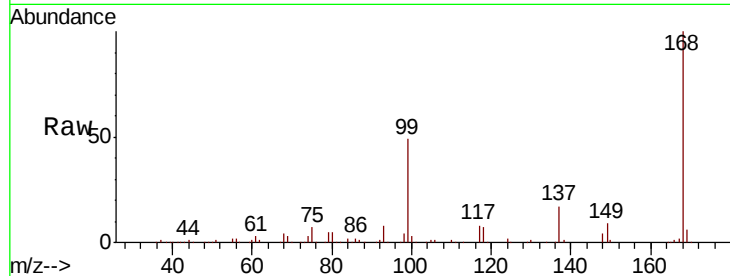
MW-24B_080719

Tgt Ion:168 Resp: 156208

Ion Ratio Lower Upper

168 100

99 48.6 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

50000

40000

30000

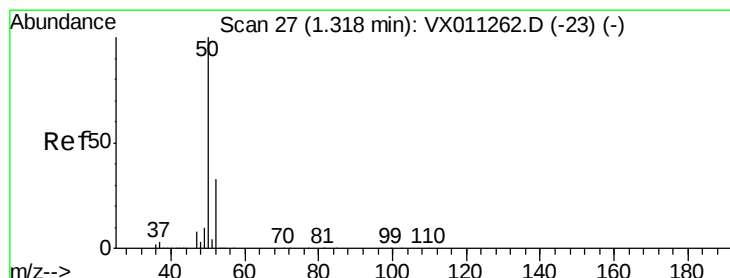
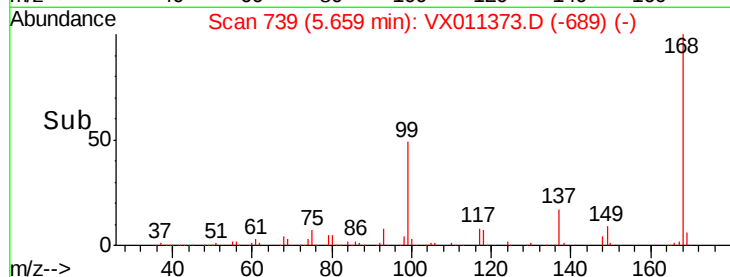
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.271 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX011373.D

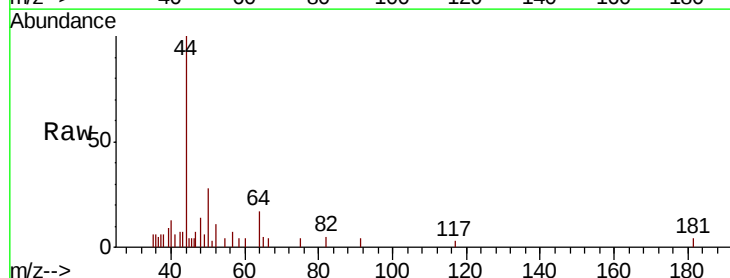
Acq: 07 Aug 2019 19:14

Tgt Ion: 50 Resp: 367

Ion Ratio Lower Upper

50 100

52 46.6 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

300

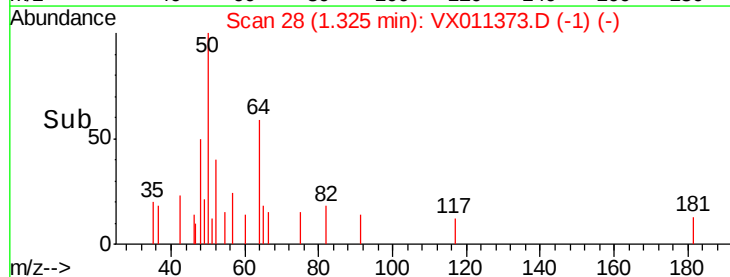
200

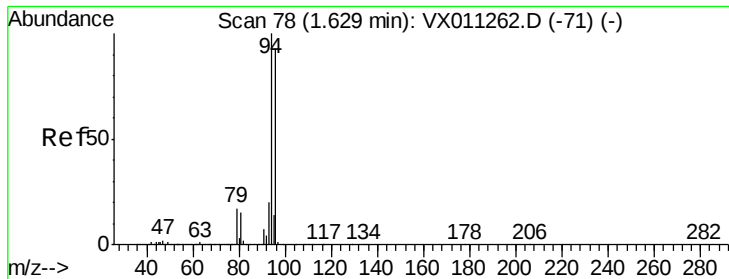
100

0

Time-->

1.30 1.32 1.34





#5

Bromomethane

Concen: 0.372 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX011373.D

Acq: 07 Aug 2019 19:14

Instrument :

MSVOA_X

ClientSampleId :

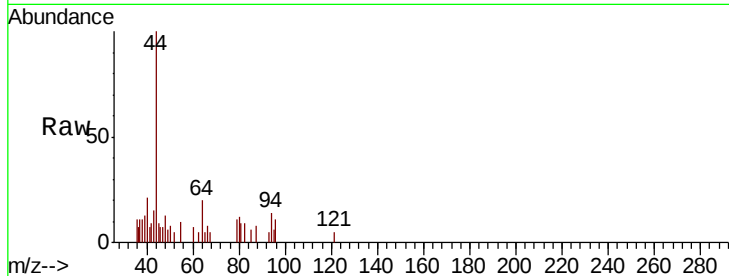
MW-24B_080719

Tgt Ion: 94 Resp: 395

Ion Ratio Lower Upper

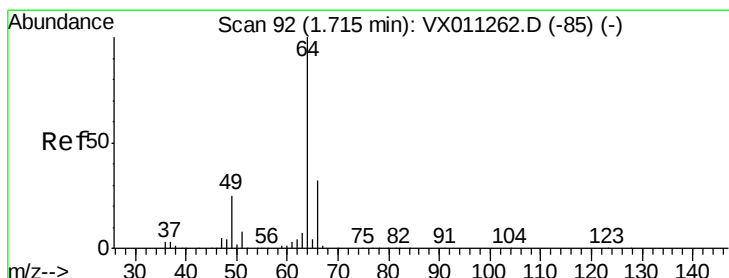
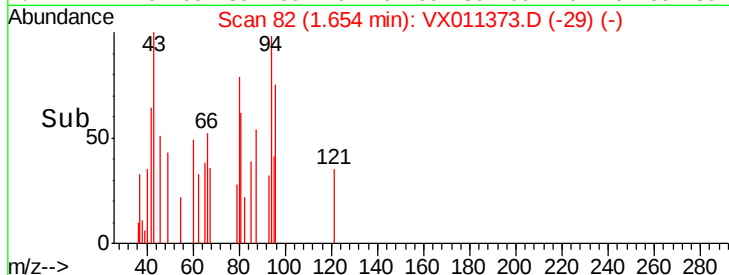
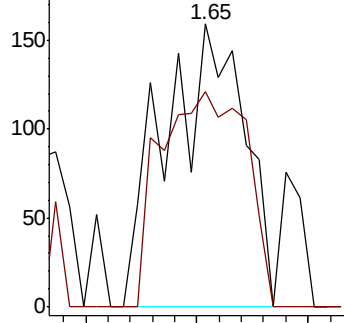
94 100

96 76.1 74.6 112.0



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: 1.74 min Scan# 96

Delta R.T. 0.03 min

Lab File: VX011373.D

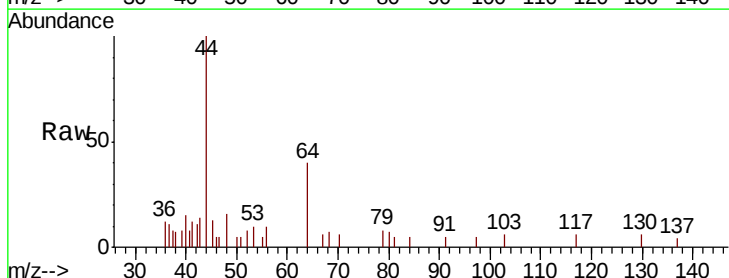
Acq: 07 Aug 2019 19:14

Tgt Ion: 64 Resp: 297

Ion Ratio Lower Upper

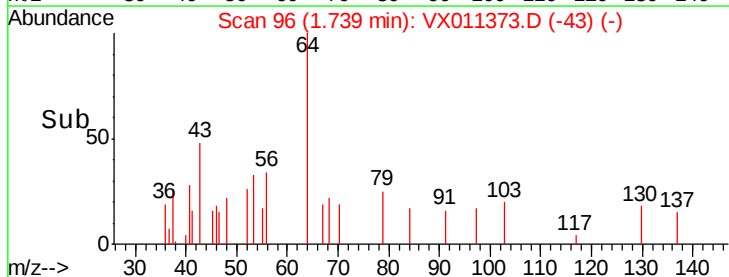
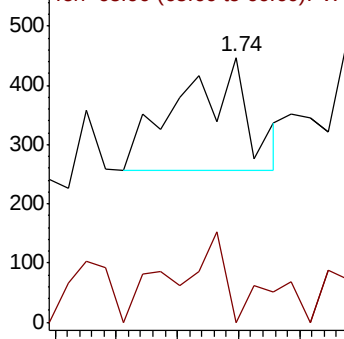
64 100

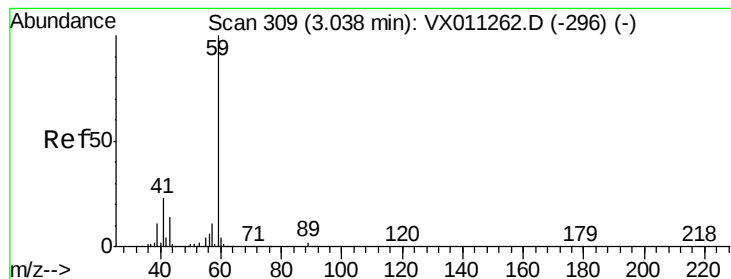
66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



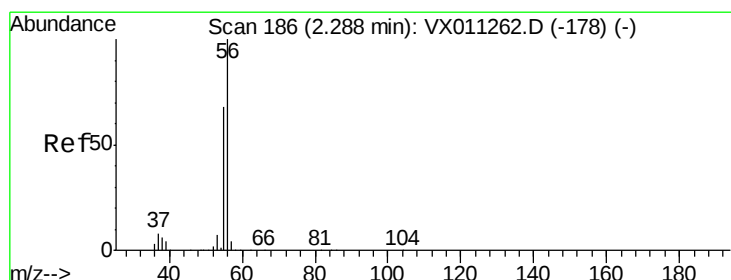
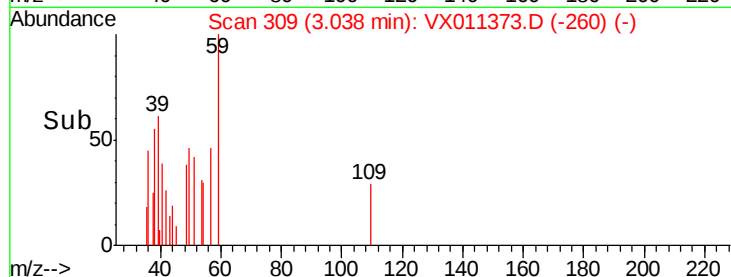
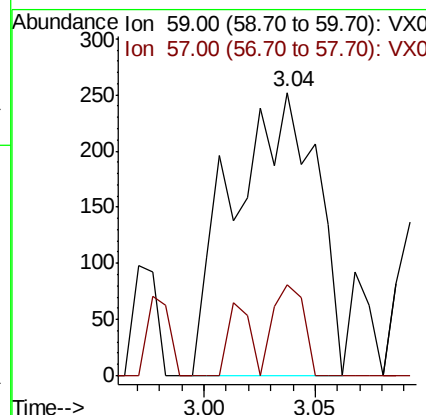
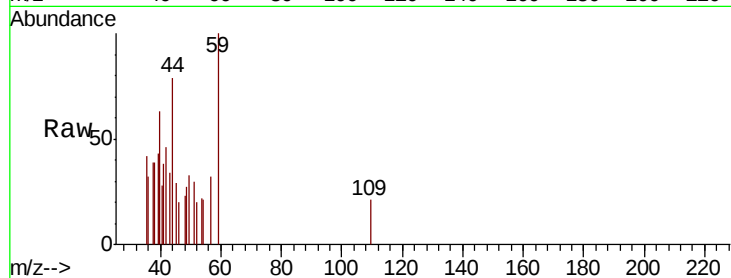


#11

Tert butyl alcohol
 Concen: 2.127 ug/l
 RT: 3.04 min Scan# 309
 Delta R.T. 0.00 min
 Lab File: VX011373.D
 Acq: 07 Aug 2019 19:14

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-24B_080719

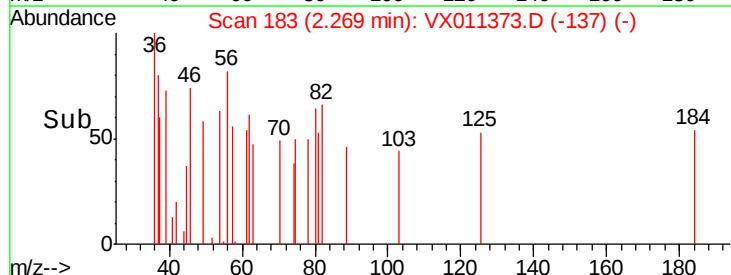
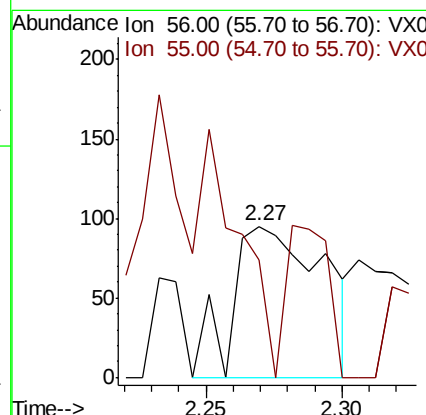
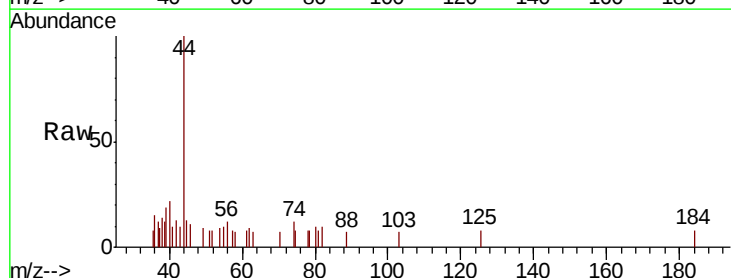
Tgt Ion: 59 Resp: 660
 Ion Ratio Lower Upper
 59 100
 57 11.8 8.3 12.5

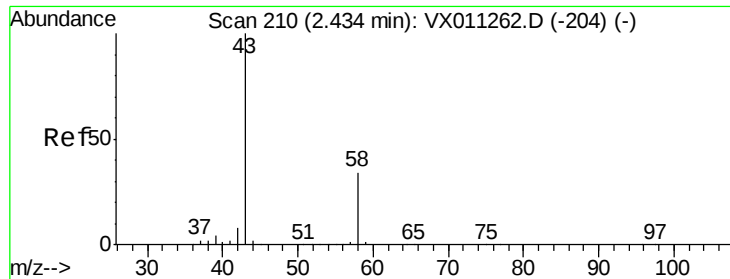


#13

Acrolein
 Concen: 0.718 ug/l
 RT: 2.27 min Scan# 183
 Delta R.T. -0.02 min
 Lab File: VX011373.D
 Acq: 07 Aug 2019 19:14

Tgt Ion: 56 Resp: 222
 Ion Ratio Lower Upper
 56 100
 55 45.5 56.0 84.0#





#16

Acetone

Concen: 1.100 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.01 min

Lab File: VX011373.D

Acq: 07 Aug 2019 19:14

Instrument :

MSVOA_X

ClientSampleId :

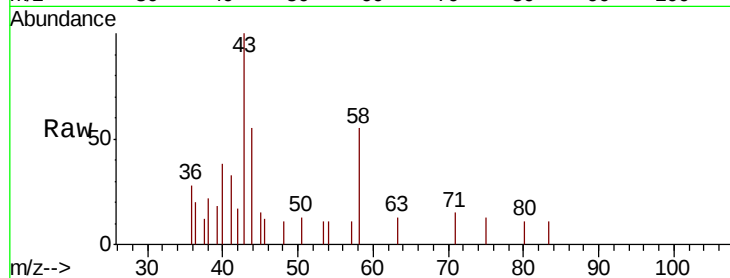
MW-24B_080719

Tgt Ion: 43 Resp: 824

Ion Ratio Lower Upper

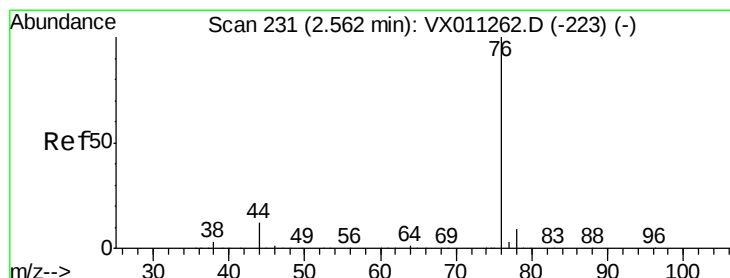
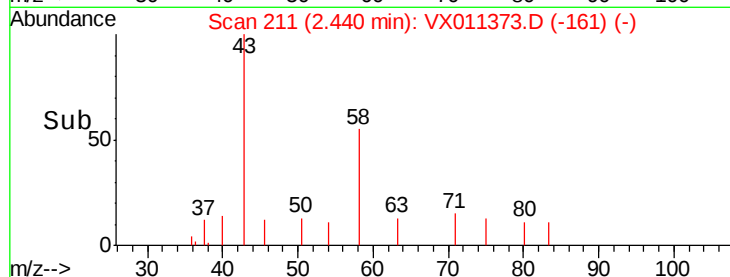
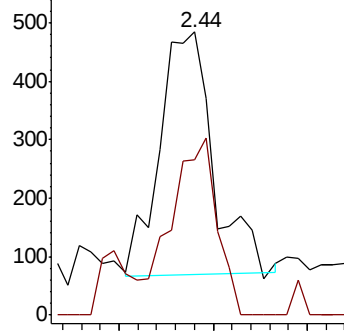
43 100

58 64.3 27.4 41.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.327 ug/l

RT: 2.56 min Scan# 231

Delta R.T. 0.00 min

Lab File: VX011373.D

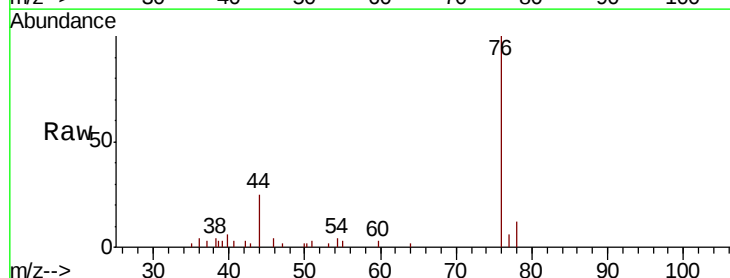
Acq: 07 Aug 2019 19:14

Tgt Ion: 76 Resp: 4426

Ion Ratio Lower Upper

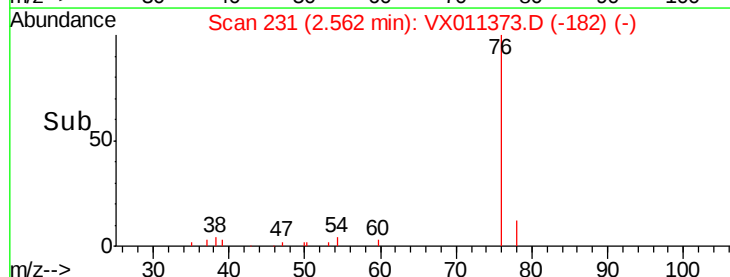
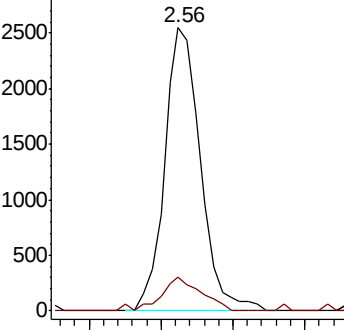
76 100

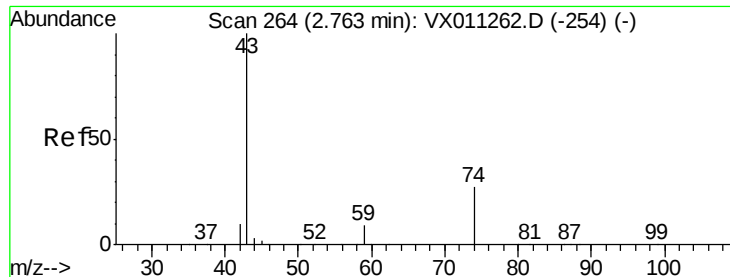
78 11.9 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

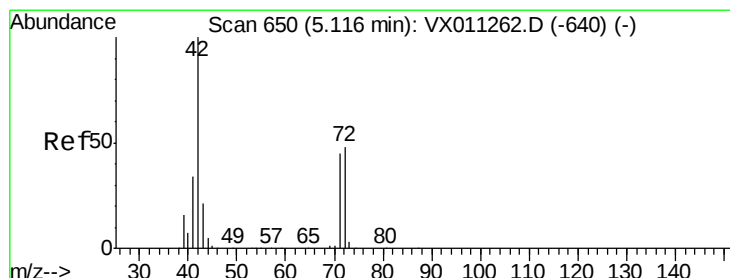
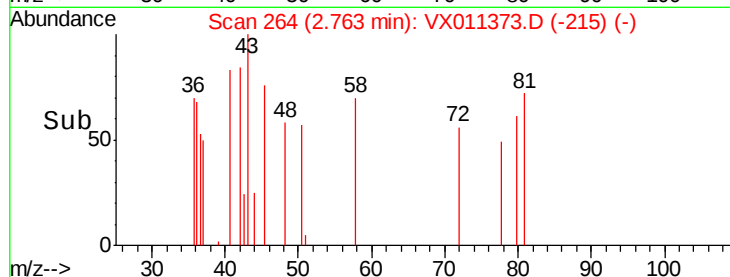
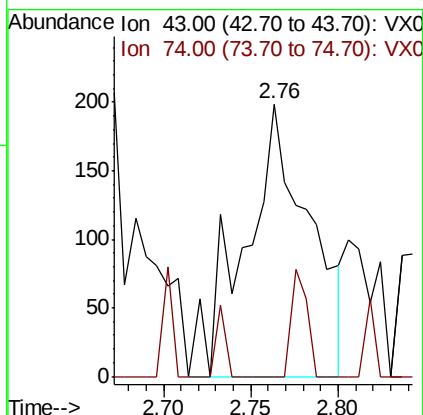
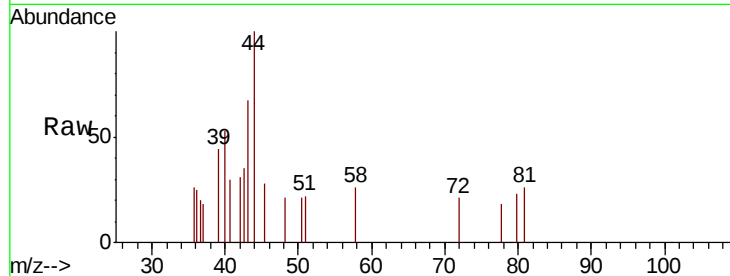




#18
Methyl Acetate
Concen: 0.302 ug/l
RT: 2.76 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX011373.D
Acq: 07 Aug 2019 19:14

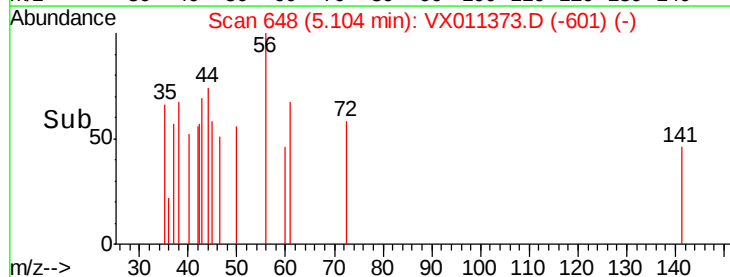
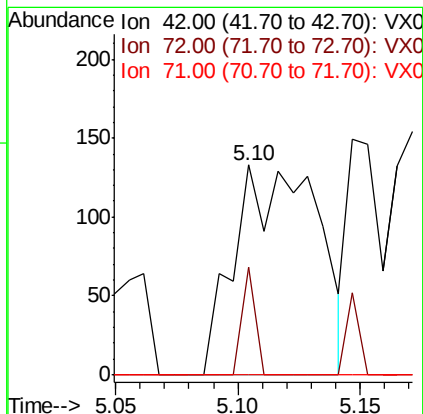
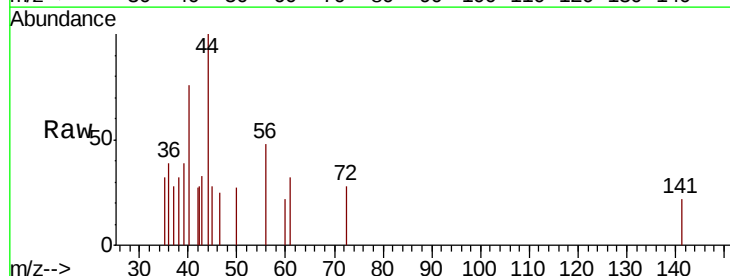
Instrument :
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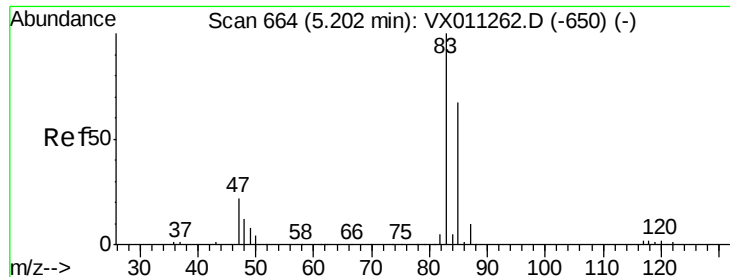
Tgt Ion: 43 Resp: 516
Ion Ratio Lower Upper
43 100
74 9.5 21.0 31.6#



#29
Tetrahydrofuran
Concen: 0.482 ug/l
RT: 5.10 min Scan# 648
Delta R.T. -0.01 min
Lab File: VX011373.D
Acq: 07 Aug 2019 19:14

Tgt Ion: 42 Resp: 315
Ion Ratio Lower Upper
42 100
72 7.9 39.9 59.9#
71 0.0 36.9 55.3#

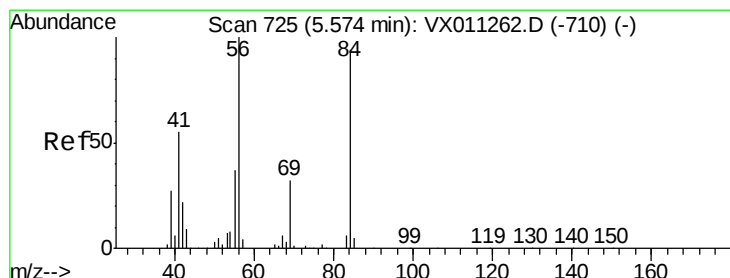
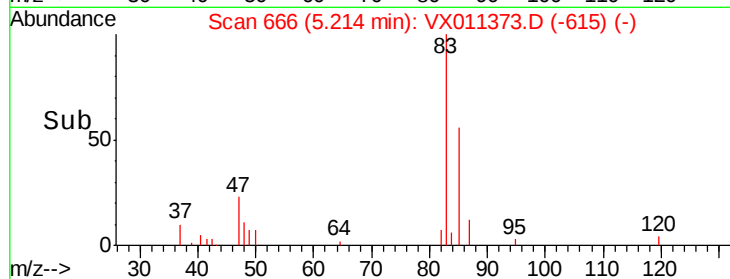
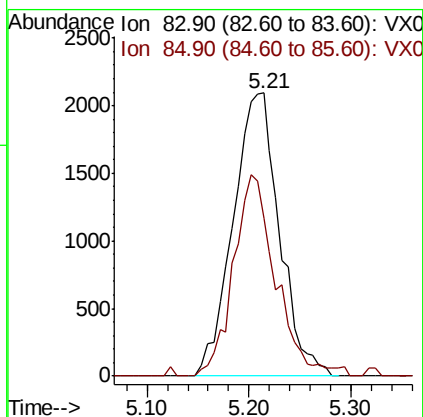
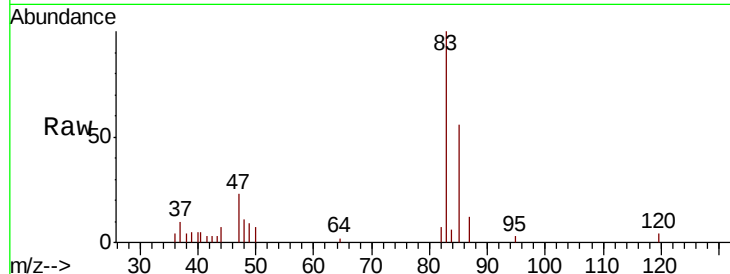




#30
Chloroform
Concen: 2.481 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.01 min
Lab File: VX011373.D
Acq: 07 Aug 2019 19:14

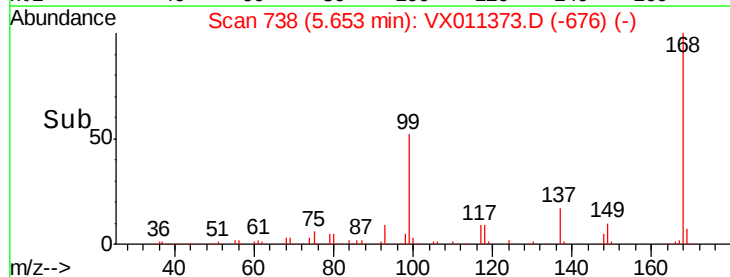
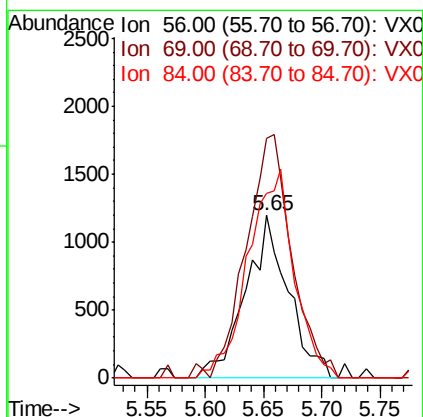
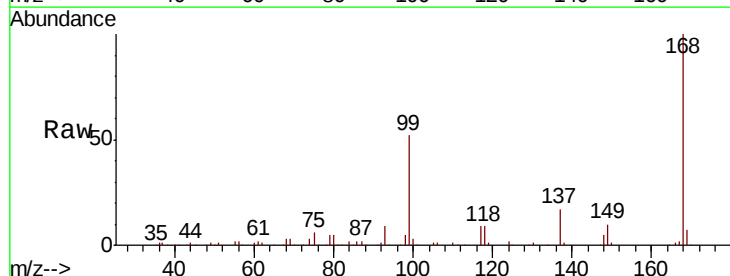
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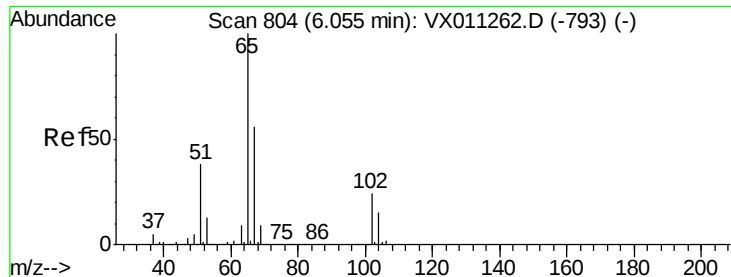
Tgt Ion: 83 Resp: 6620
Ion Ratio Lower Upper
83 100
85 55.9 53.4 80.0



#31
Cyclohexane
Concen: 1.523 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX011373.D
Acq: 07 Aug 2019 19:14

Tgt Ion: 56 Resp: 3086
Ion Ratio Lower Upper
56 100
69 147.2 25.5 38.3#
84 113.6 75.0 112.4#

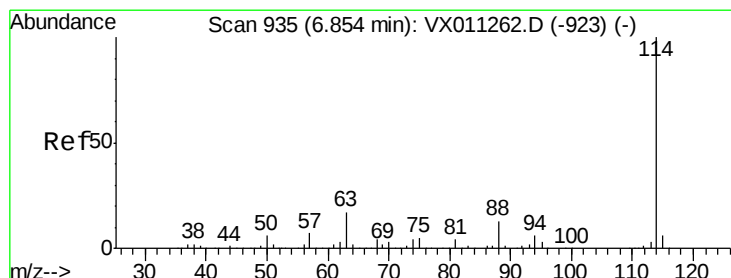
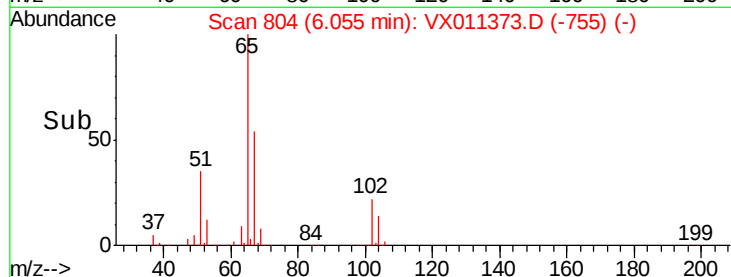
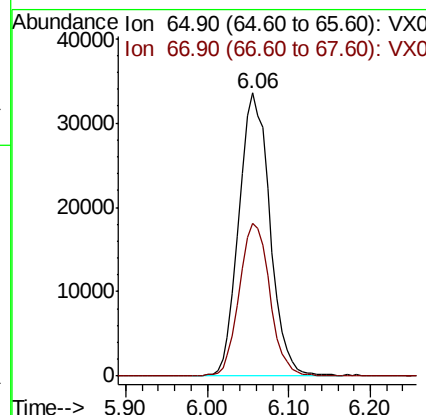
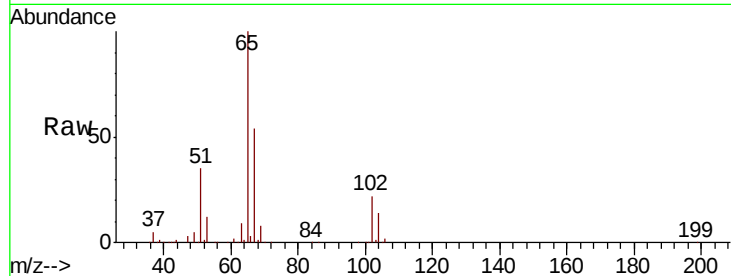




#33
 1,2-Dichloroethane-d4
 Concen: 56.373 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: VX011373.D
 Acq: 07 Aug 2019 19:14

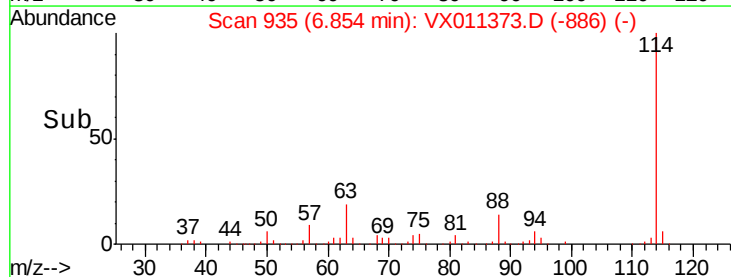
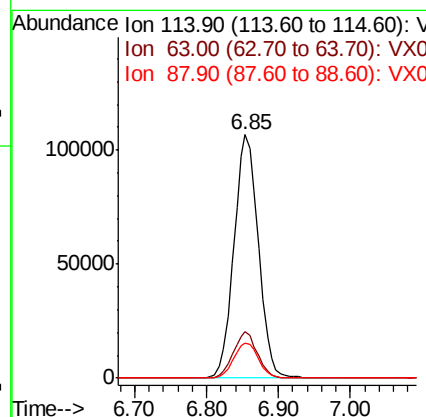
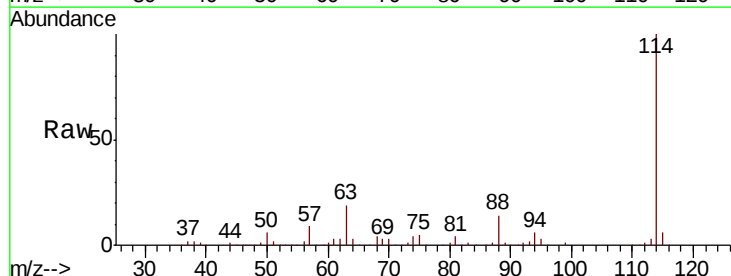
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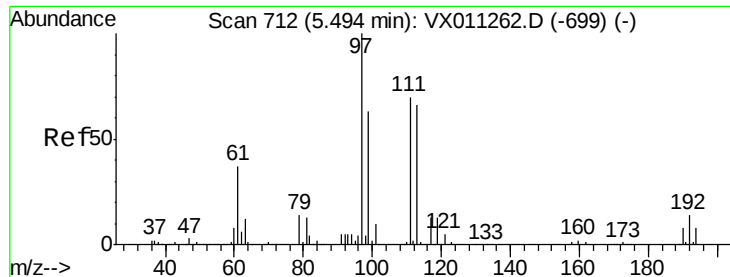
Tgt Ion: 65 Resp: 88681
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011373.D
 Acq: 07 Aug 2019 19:14

Tgt Ion: 114 Resp: 251318
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 34.0
 88 14.4 0.0 26.4

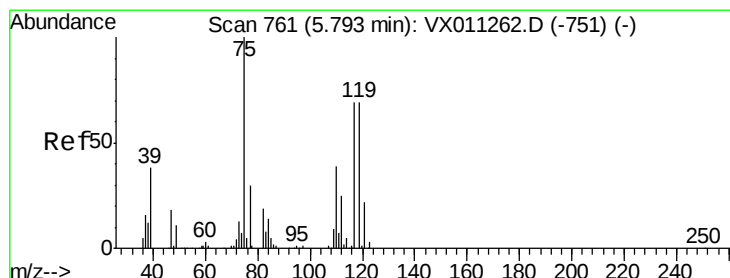
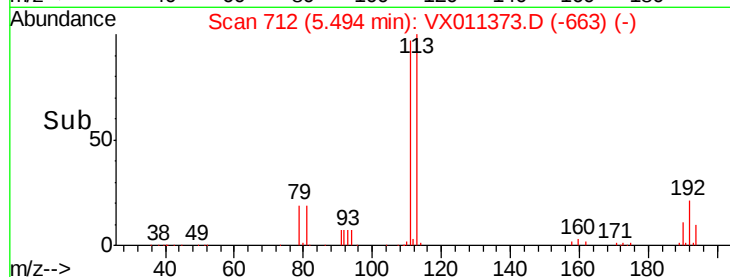
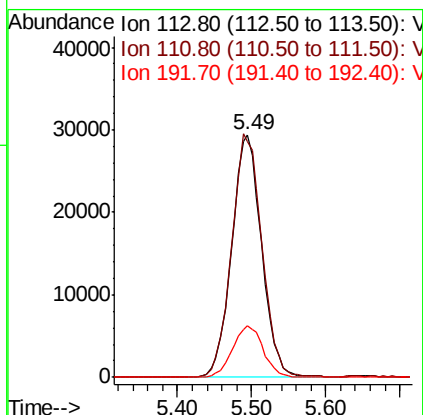
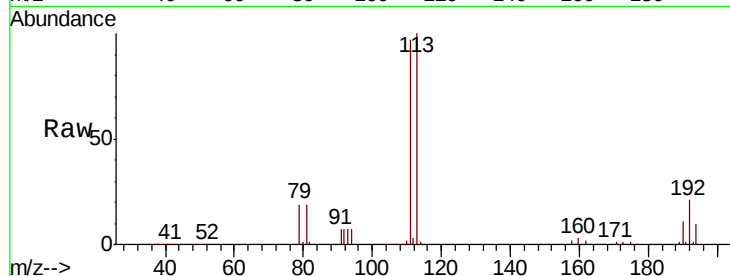




#35
 Dibromofluoromethane
 Concen: 50.330 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011373.D
 Acq: 07 Aug 2019 19:14

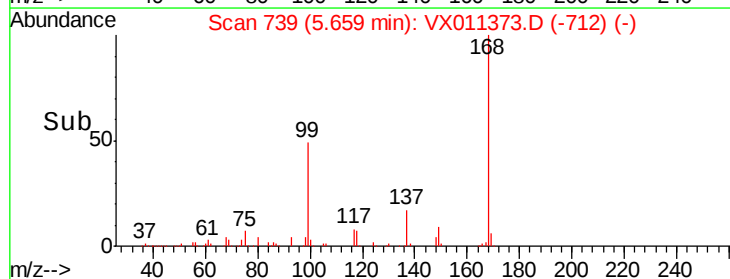
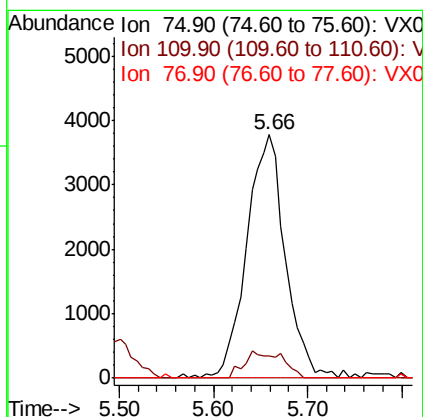
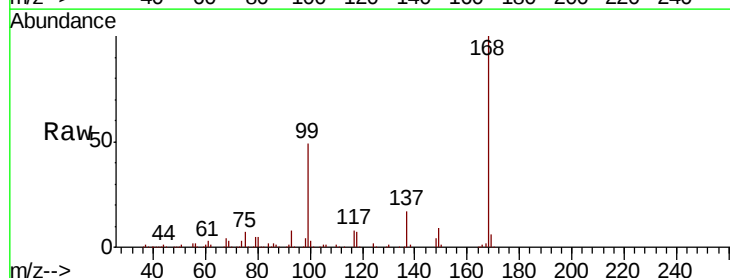
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-24B_080719

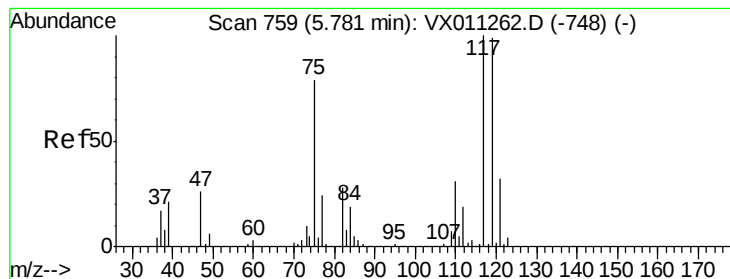
Tgt Ion:113 Resp: 82581
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.9 122.9
 192 21.8 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 4.906 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011373.D
 Acq: 07 Aug 2019 19:14

Tgt Ion: 75 Resp: 10765
 Ion Ratio Lower Upper
 75 100
 110 11.1 20.0 59.9#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 0.205 ug/l

RT: 5.77 min Scan# 758

Delta R.T. -0.01 min

Lab File: VX011373.D

Acq: 07 Aug 2019 19:14

Instrument :

MSVOA_X

ClientSampleId :

MW-24B_080719

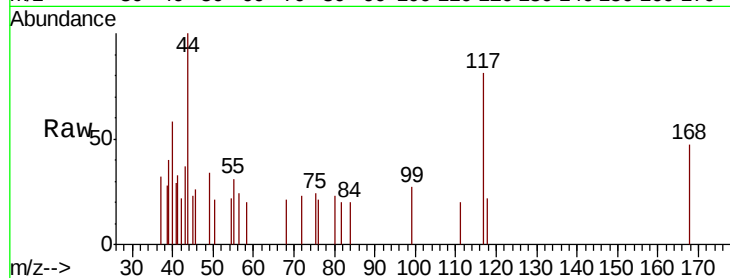
Tgt Ion:117 Resp: 453

Ion Ratio Lower Upper

117 100

119 0.0 79.0 118.4#

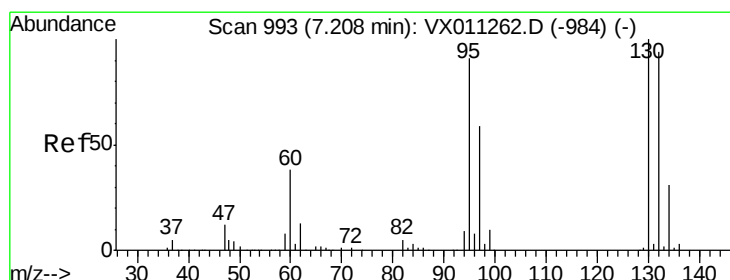
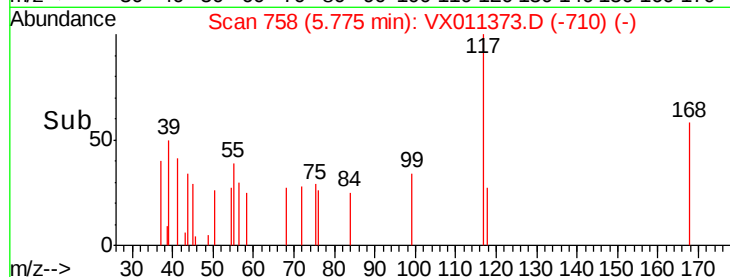
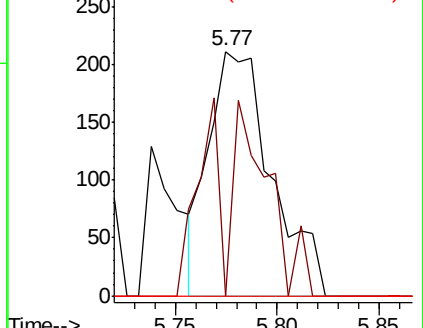
121 0.0 25.9 38.9#



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



#44

Trichloroethene

Concen: 1.451 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX011373.D

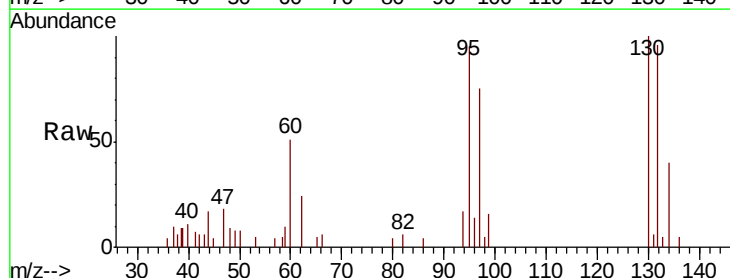
Acq: 07 Aug 2019 19:14

Tgt Ion:130 Resp: 2876

Ion Ratio Lower Upper

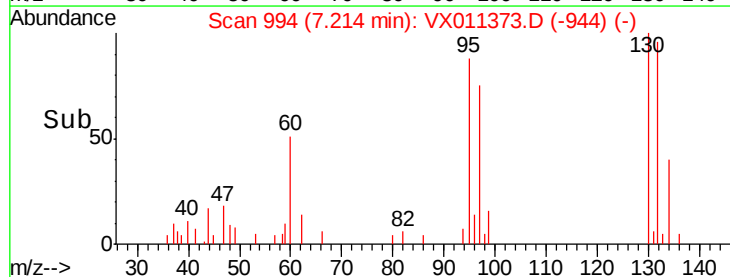
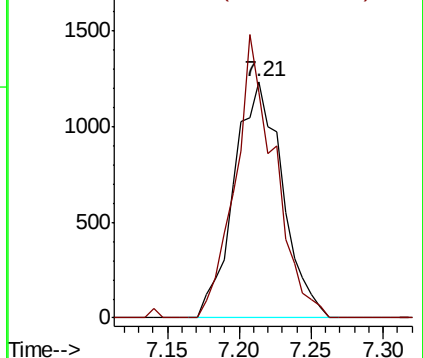
130 100

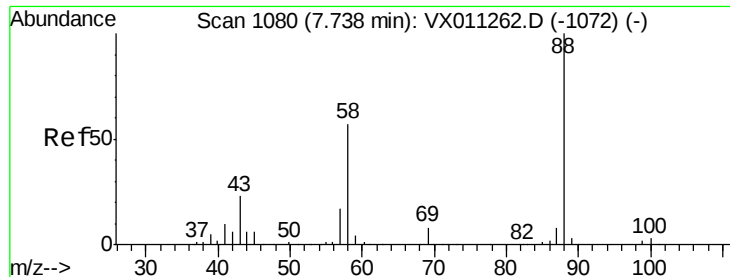
95 95.2 0.0 182.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

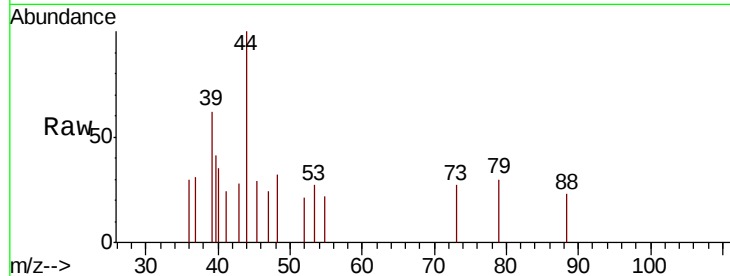




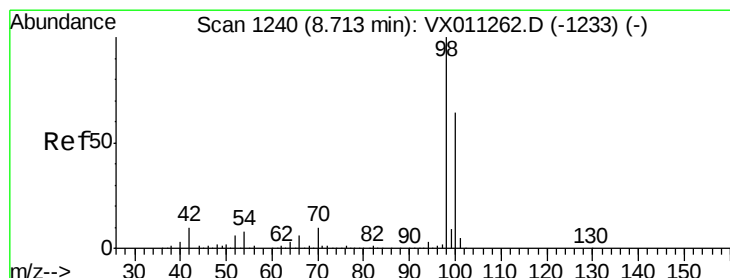
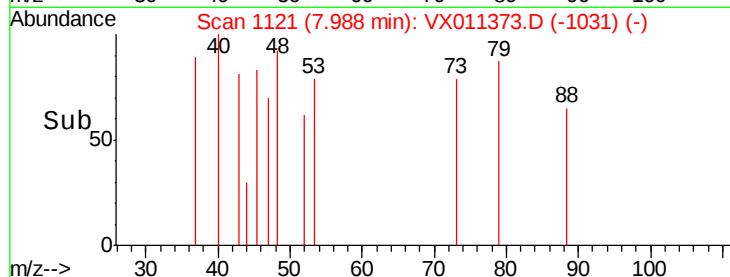
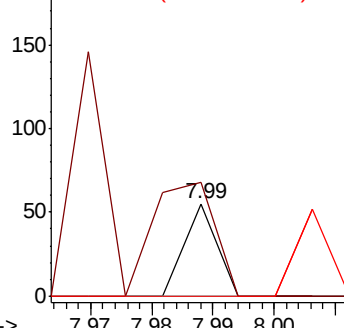
#49
1,4-Dioxane
Concen: 0.417 ug/l
RT: 7.99 min Scan# 1121
Delta R.T. 0.25 min
Lab File: VX011373.D
Acq: 07 Aug 2019 19:14

Instrument :
MSVOA_X
ClientSampleId :
MW-24B_080719

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 95.0 47.8 71.8#

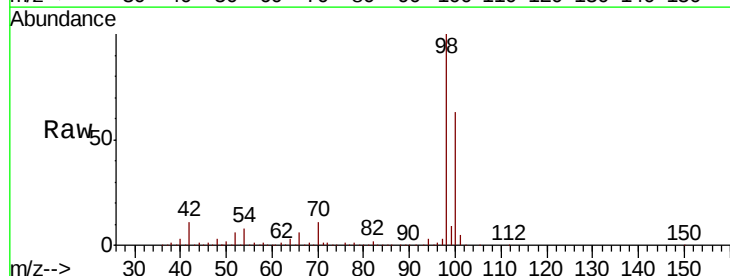


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

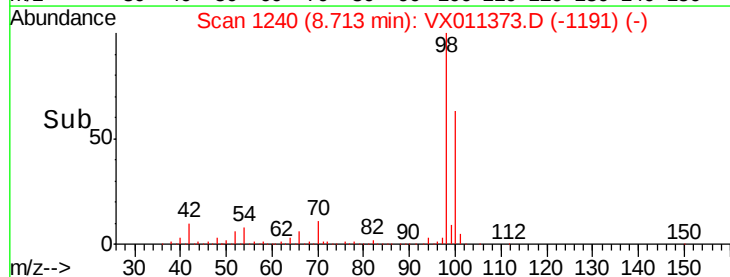
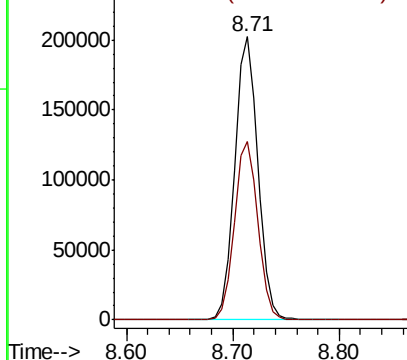


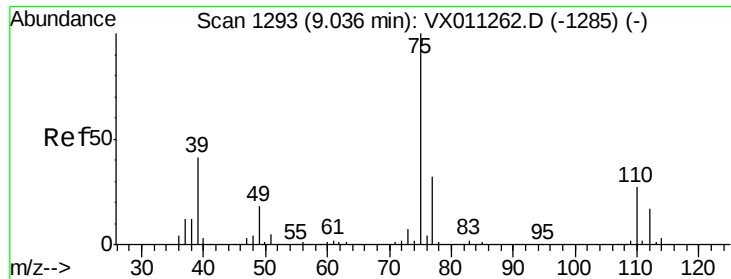
#50
Toluene-d8
Concen: 49.980 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011373.D
Acq: 07 Aug 2019 19:14

Tgt Ion: 98 Resp: 309552
Ion Ratio Lower Upper
98 100
100 63.8 51.7 77.5



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

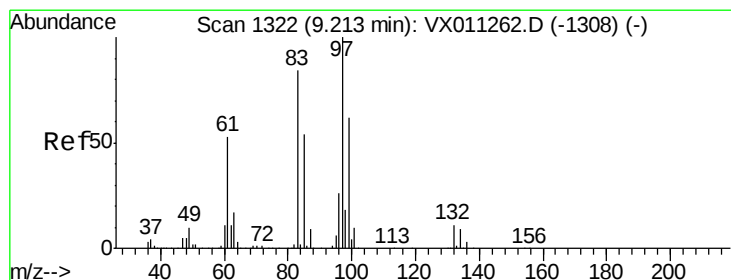
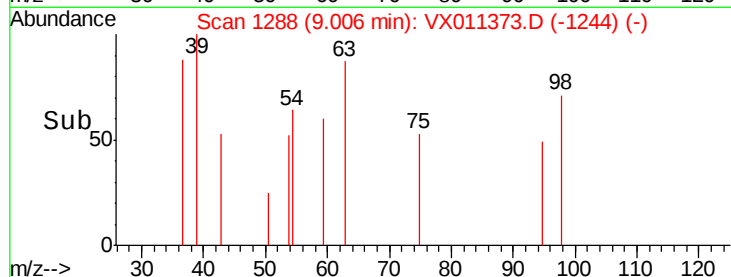
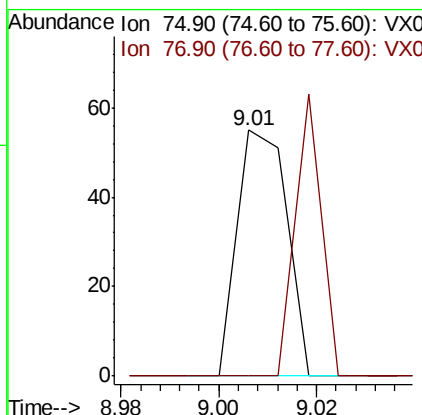
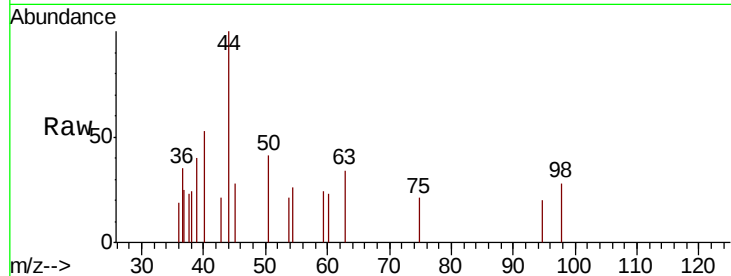




#53
t-1,3-Dichloropropene
Concen: 2.853 ug/l
RT: 9.01 min Scan# 1288
Delta R.T. -0.03 min
Lab File: VX011373.D
Acq: 07 Aug 2019 19:14

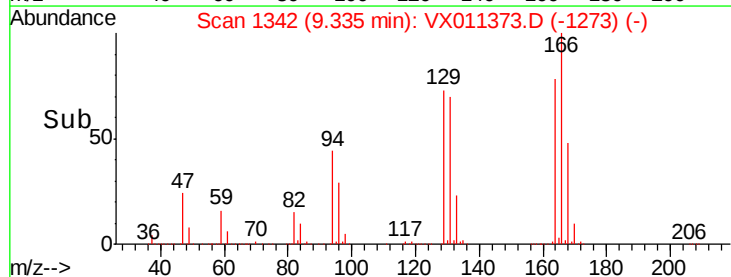
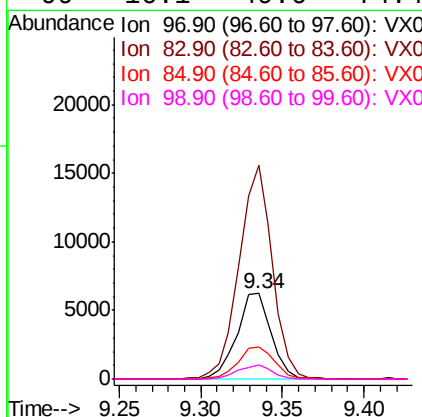
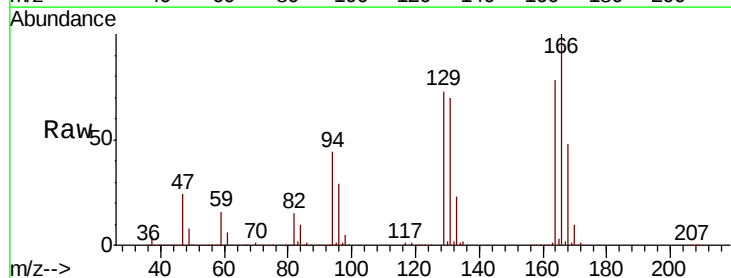
Instrument :
MSVOA_X
ClientSampleId :
MW-24B_080719

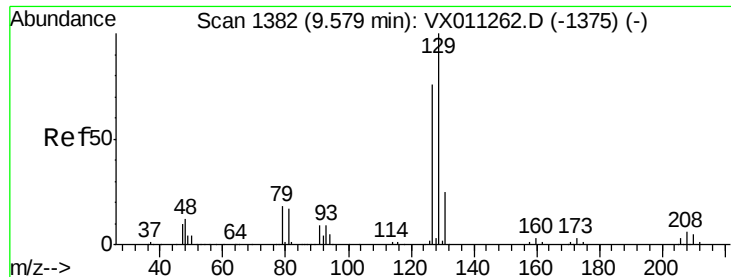
Tgt Ion: 75 Resp: 39
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#55
1,1,2-Trichloroethane
Concen: 5.139 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.12 min
Lab File: VX011373.D
Acq: 07 Aug 2019 19:14

Tgt Ion: 97 Resp: 9147
Ion Ratio Lower Upper
97 100
83 249.2 67.6 101.4#
85 37.9 43.4 65.0#
99 16.1 49.6 74.4#

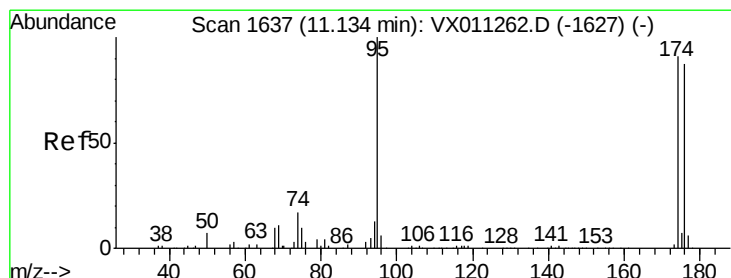
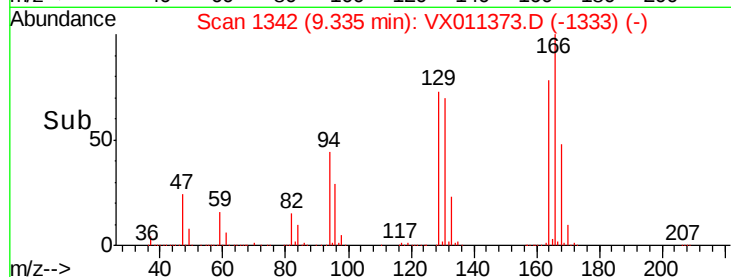
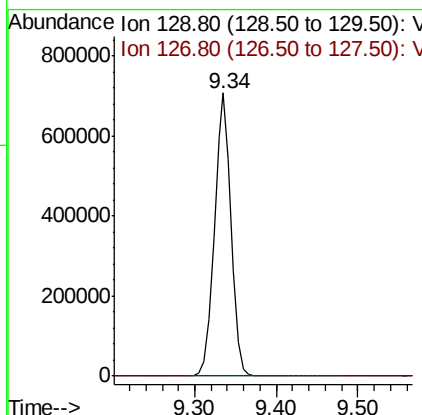
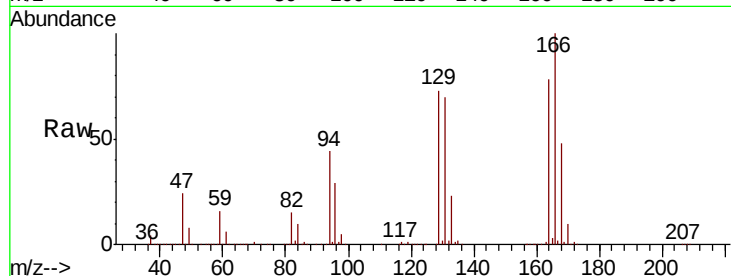




#60
 Dibromochloromethane
 Concen: 552.586 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX011373.D
 Acq: 07 Aug 2019 19:14

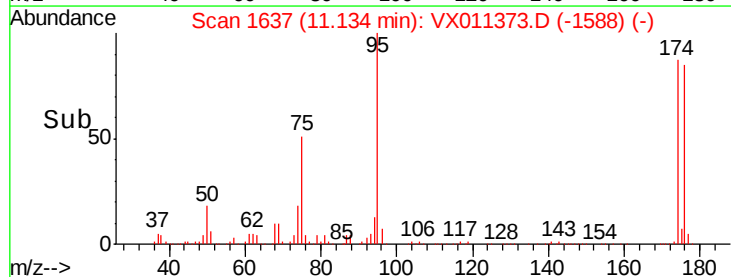
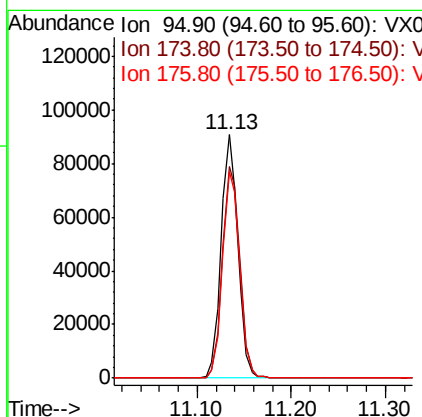
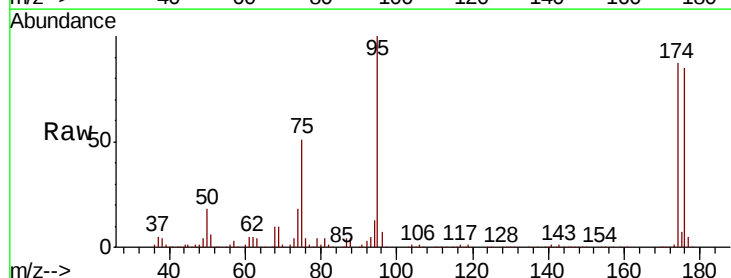
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-24B_080719

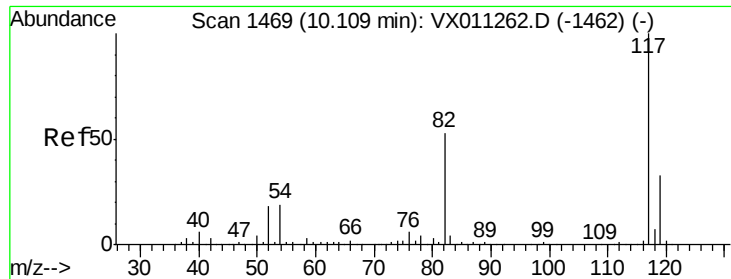
Tgt Ion:129 Resp: 1007010
 Ion Ratio Lower Upper
 129 100
 127 0.1 39.2 117.6#



#62
 4-Bromofluorobenzene
 Concen: 50.670 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX011373.D
 Acq: 07 Aug 2019 19:14

Tgt Ion: 95 Resp: 112045
 Ion Ratio Lower Upper
 95 100
 174 90.3 0.0 191.2
 176 86.9 0.0 184.8

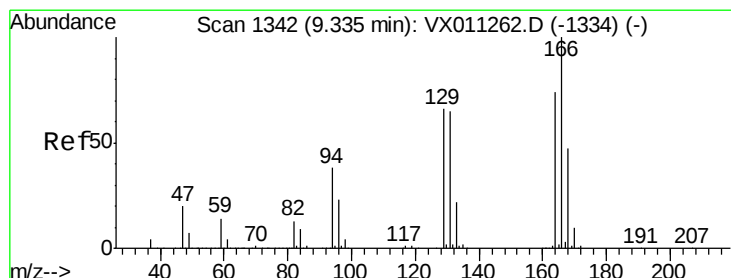
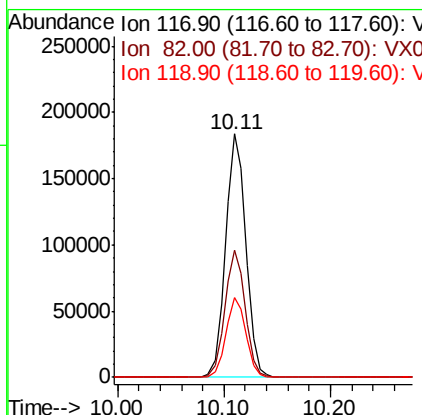
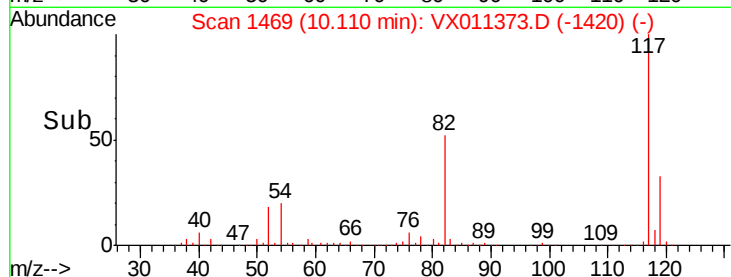
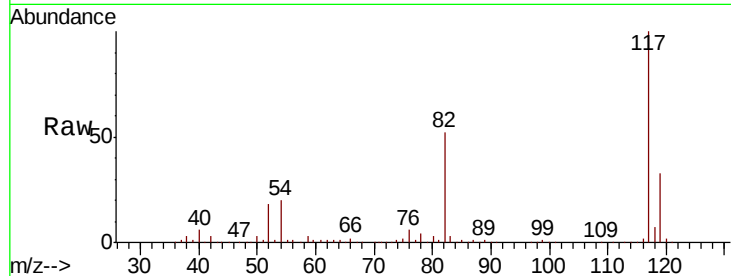




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011373.D
Acq: 07 Aug 2019 19:14

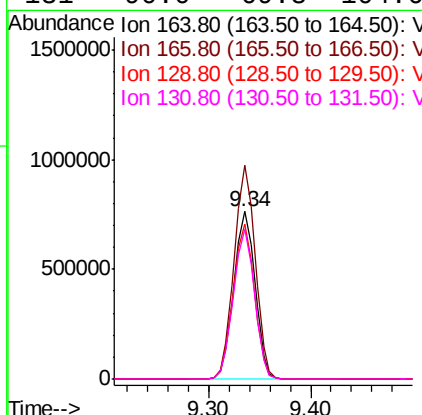
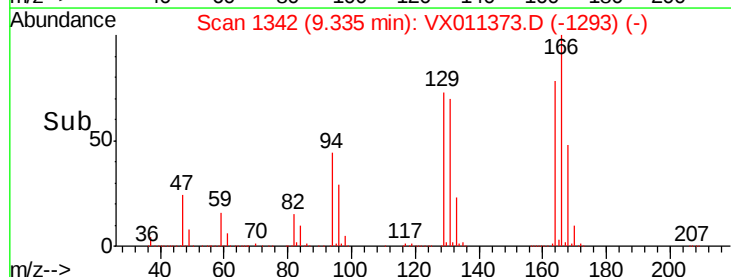
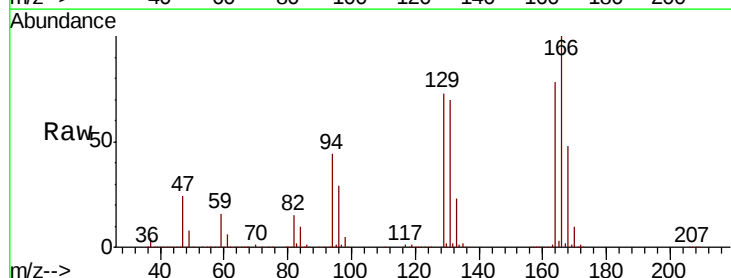
Instrument :
MSVOA_X
ClientSampleId :
MW-24B_080719

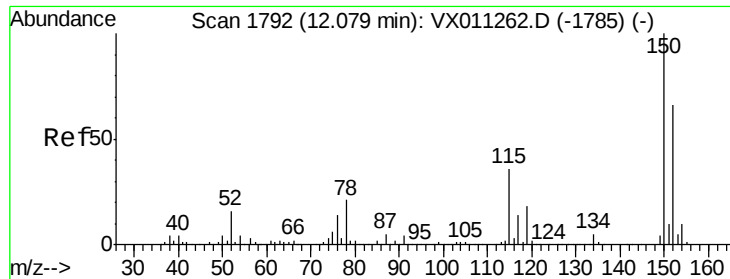
Tgt Ion:117 Resp: 244938
Ion Ratio Lower Upper
117 100
82 52.3 42.2 63.2
119 32.9 26.6 39.8



#64
Tetrachloroethene
Concen: 524.059 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX011373.D
Acq: 07 Aug 2019 19:14

Tgt Ion:164 Resp: 1090098
Ion Ratio Lower Upper
164 100
166 127.8 107.5 161.3
129 92.8 71.0 106.4
131 90.0 69.8 104.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX011373.D

Acq: 07 Aug 2019 19:14

Instrument :

MSVOA_X

ClientSampleId :

MW-24B_080719

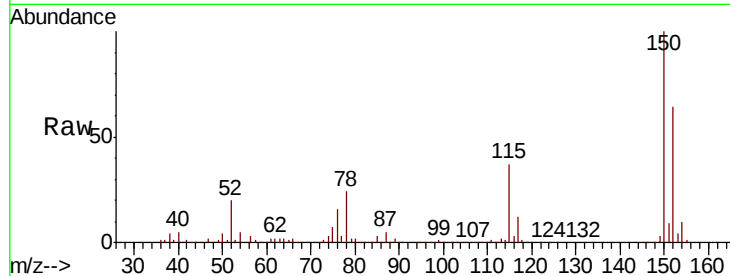
Tgt Ion:152 Resp: 115691

Ion Ratio Lower Upper

152 100

115 55.2 40.0 119.9

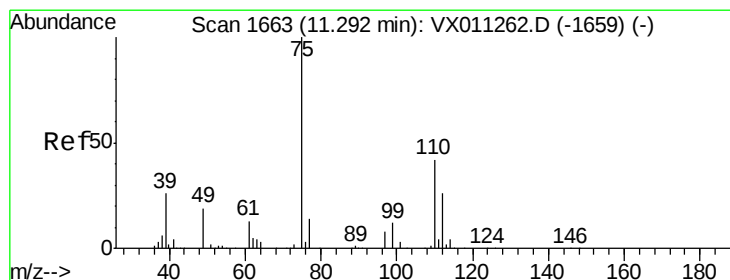
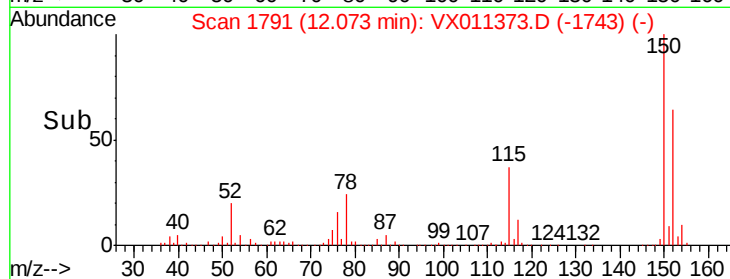
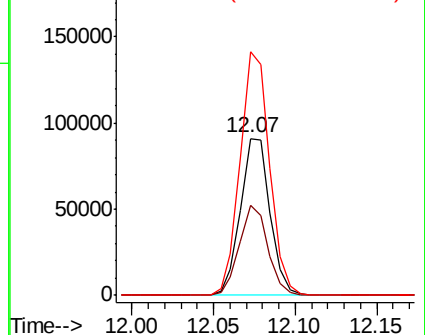
150 154.6 0.0 350.4



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: 26.901 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011373.D

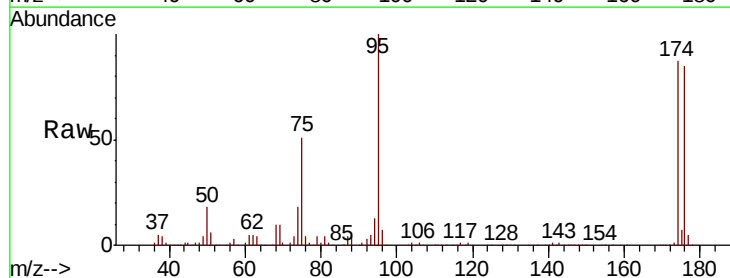
Acq: 07 Aug 2019 19:14

Tgt Ion: 75 Resp: 56677

Ion Ratio Lower Upper

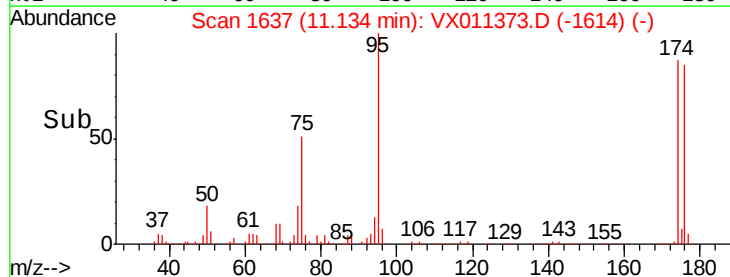
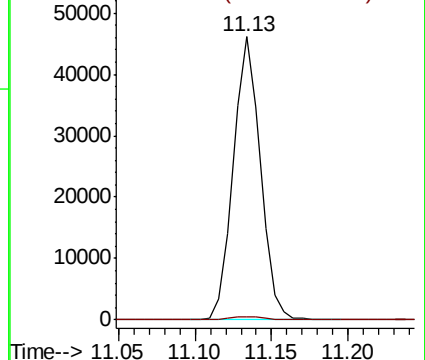
75 100

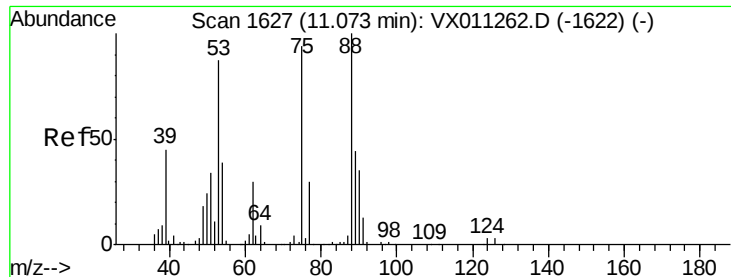
77 1.3 21.1 63.4#



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: 69.856 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011373.D

Acq: 07 Aug 2019 19:14

Instrument :

MSVOA_X

ClientSampleId :

MW-24B_080719

Tgt Ion: 75 Resp: 56677

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.1 37.9 56.9#

