

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX080719\
 Data File : VX011375.D
 Acq On : 07 Aug 2019 20:01
 Operator : JC/SP
 Sample : K4220-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-23B_080719

Quant Time: Aug 08 07:07:16 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	152797	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	251766	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	240043	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	111275	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	90068	58.53	ug/l	0.00
Spiked Amount			Recovery	=	117.06%	
35) Dibromofluoromethane	5.49	113	81908	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
50) Toluene-d8	8.71	98	305919	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
62) 4-Bromofluorobenzene	11.13	95	107022	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	

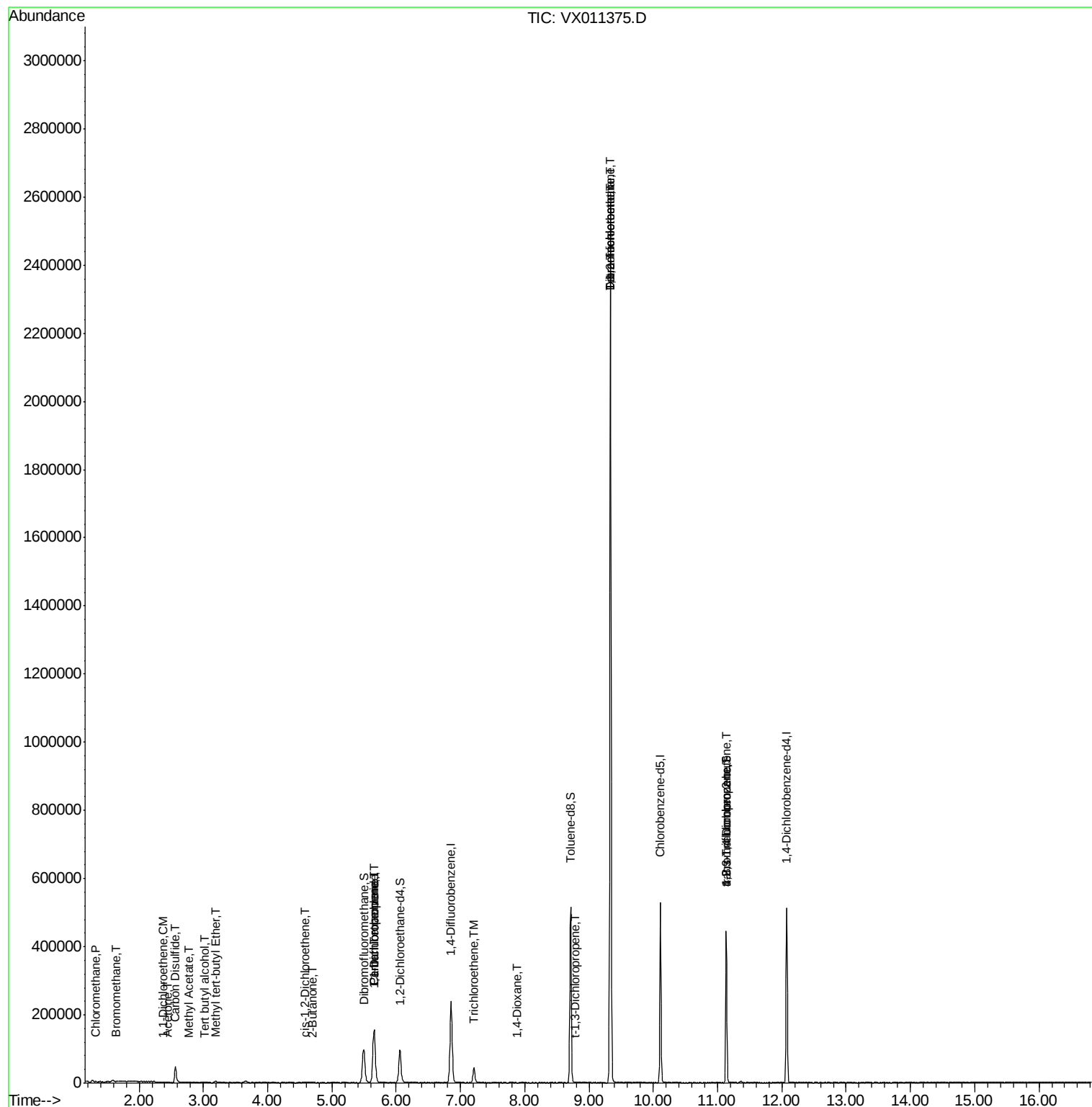
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	527	0.398	ug/l	94
5) Bromomethane	1.65	94	474	0.456	ug/l	82
6) Chloroethane	1.72	64	673	Below Cal	#	88
11) Tert butyl alcohol	3.01	59	1011	3.317	ug/l #	89
12) 1,1-Dichloroethene	2.37	96	464	0.334	ug/l	91
13) Acrolein	2.30	56	63	Below Cal	#	69
16) Acetone	2.44	43	2180	2.976	ug/l #	85
17) Carbon Disulfide	2.56	76	56449	17.303	ug/l	100
18) Methyl Acetate	2.77	43	451	0.269	ug/l	91
19) Methyl tert-butyl Ether	3.19	73	4085	0.997	ug/l	93
25) 2-Butanone	4.69	43	288	0.276	ug/l #	46
27) cis-1,2-Dichloroethene	4.59	96	1009	0.596	ug/l	91
36) 1,1-Dichloropropene	5.65	75	10676	4.857	ug/l #	48
38) Carbon Tetrachloride	5.65	117	14609	6.606	ug/l #	14
44) Trichloroethene	7.21	130	17159	8.642	ug/l	99
49) 1,4-Dioxane	7.89	88	21	0.437	ug/l #	1
53) t-1,3-Dichloropropene	8.79	75	50	2.858	ug/l #	43
55) 1,1,2-Trichloroethane	9.34	97	4315	2.420	ug/l #	10
60) Dibromochloromethane	9.34	129	461201	252.629	ug/l #	10
64) Tetrachloroethene	9.34	164	506502	248.463	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	54700	26.993	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	54700	70.079	ug/l #	10

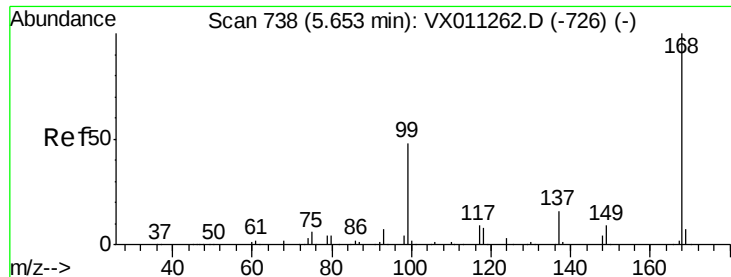
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 08 07:07:16 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
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: VX011375.D

Acq: 07 Aug 2019 20:01

Instrument :

MSVOA_X

ClientSampleId :

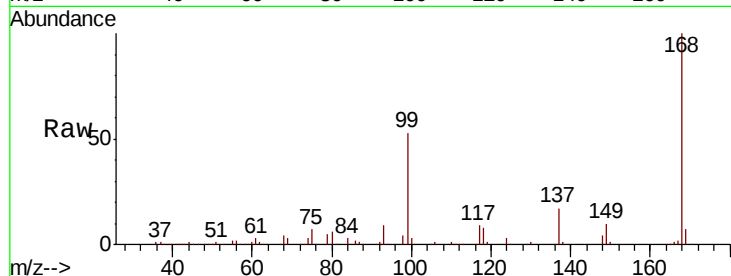
MW-23B_080719

Tgt Ion:168 Resp: 152797

Ion Ratio Lower Upper

168 100

99 52.9 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

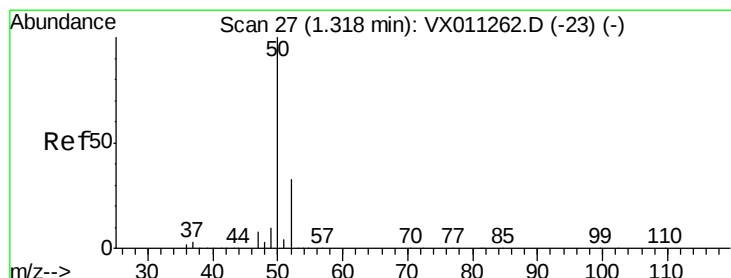
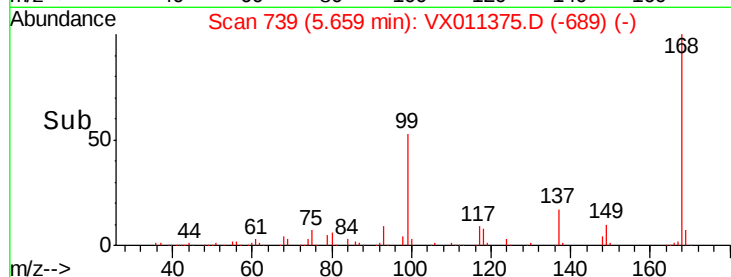
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.398 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011375.D

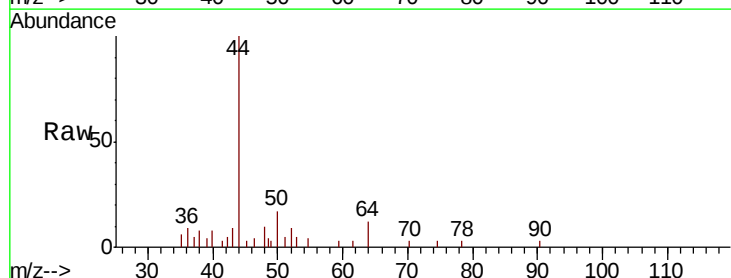
Acq: 07 Aug 2019 20:01

Tgt Ion: 50 Resp: 527

Ion Ratio Lower Upper

50 100

52 29.4 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

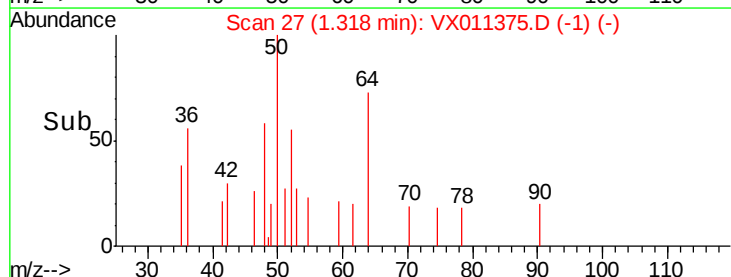
300

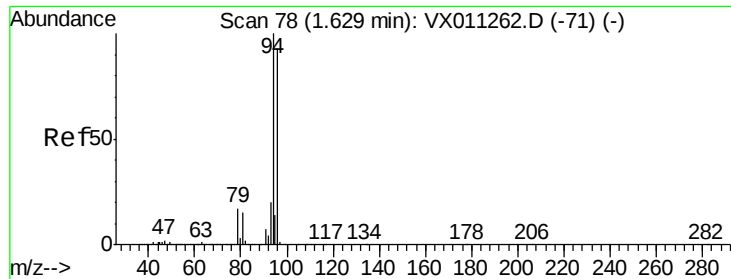
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.456 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX011375.D

Acq: 07 Aug 2019 20:01

Instrument :

MSVOA_X

ClientSampleId :

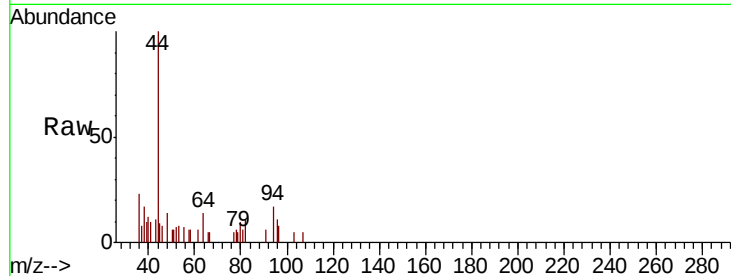
MW-23B_080719

Tgt Ion: 94 Resp: 474

Ion Ratio Lower Upper

94 100

96 110.7 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

150

100

50

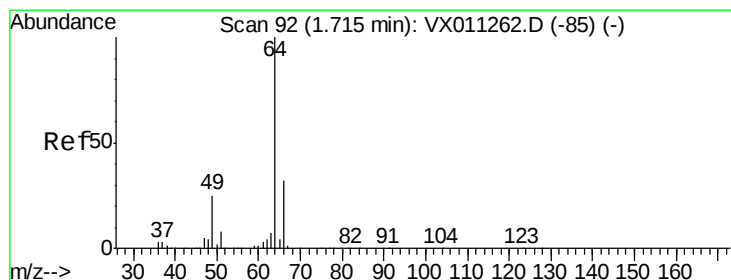
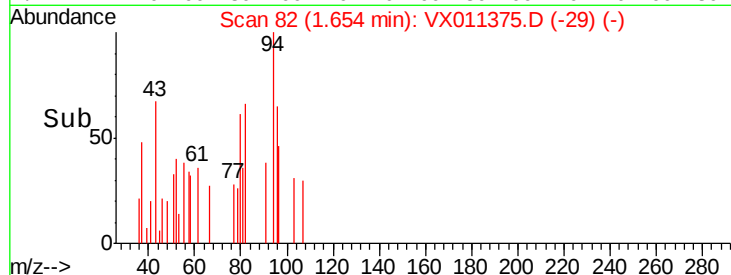
0

1.60

1.65

1.70

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX011375.D

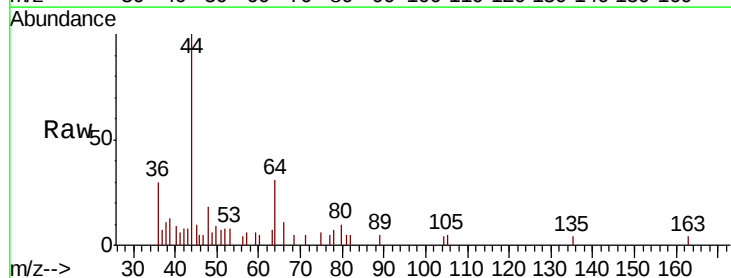
Acq: 07 Aug 2019 20:01

Tgt Ion: 64 Resp: 673

Ion Ratio Lower Upper

64 100

66 24.6 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

400

300

200

100

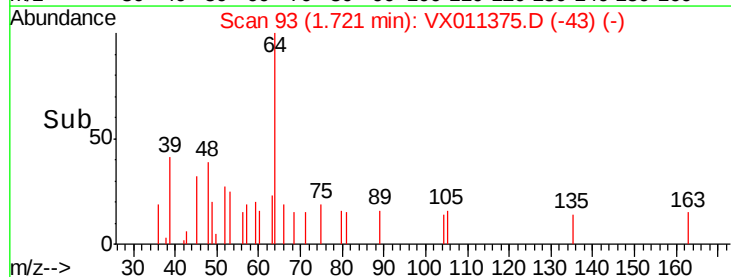
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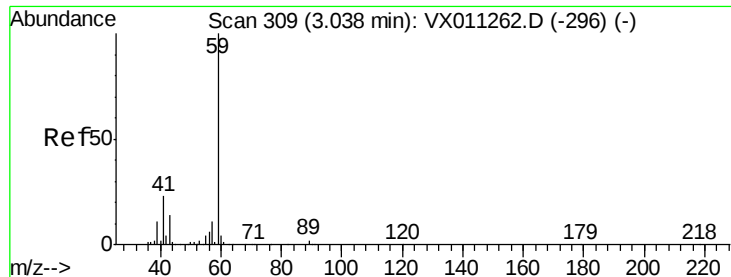
1.65

1.70

1.75

Time-->

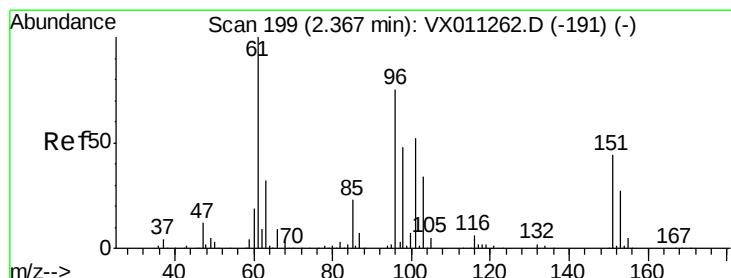
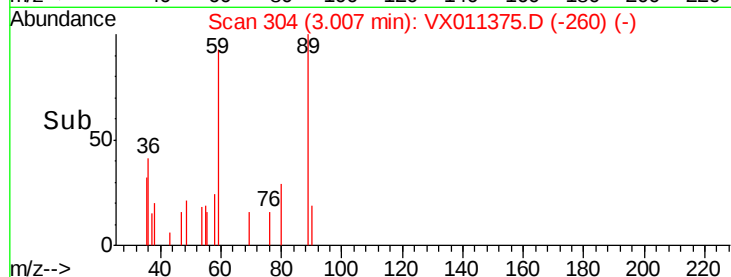
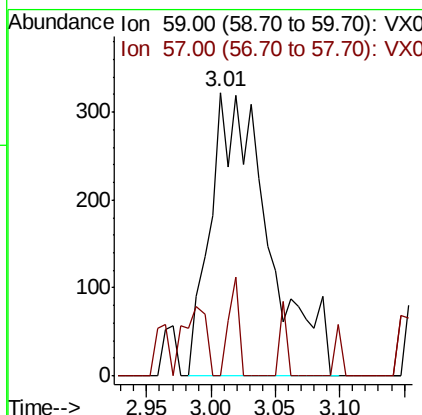
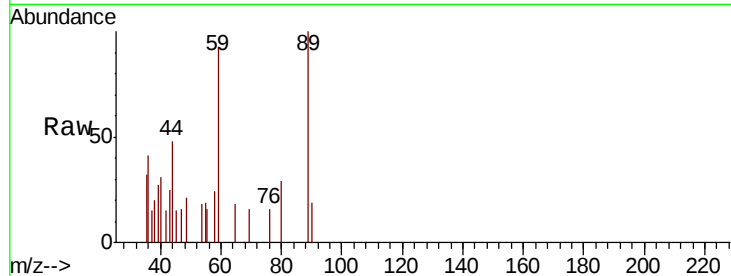




#11
Tert butyl alcohol
Concen: 3.317 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.03 min
Lab File: VX011375.D
Acq: 07 Aug 2019 20:01

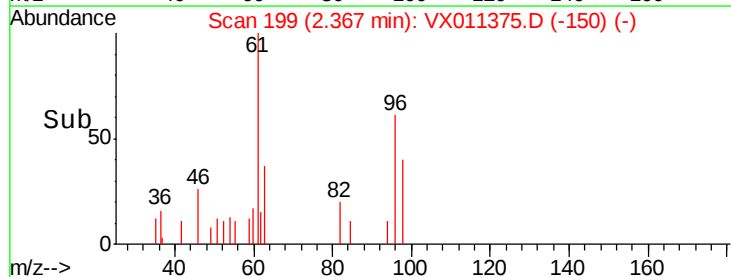
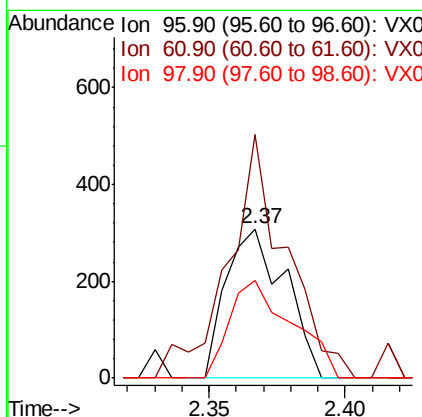
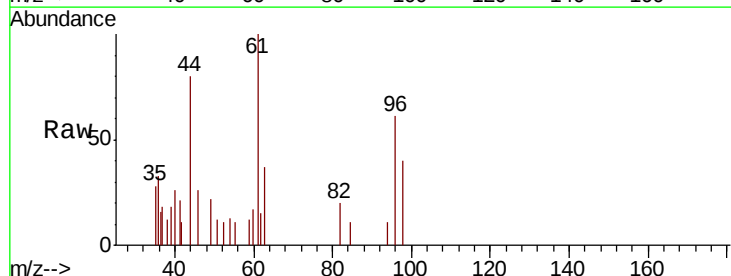
Instrument :
MSVOA_X
ClientSampleId :
MW-23B_080719

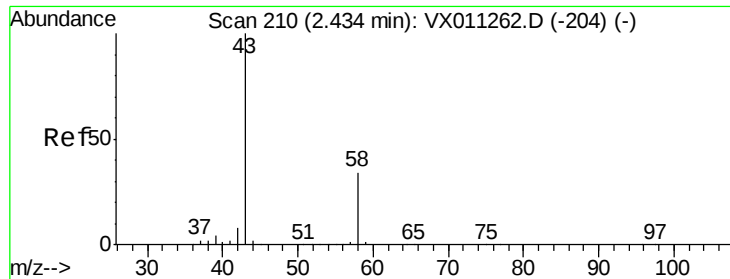
Tgt Ion: 59 Resp: 1011
Ion Ratio Lower Upper
59 100
57 6.3 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 0.334 ug/l
RT: 2.37 min Scan# 199
Delta R.T. 0.00 min
Lab File: VX011375.D
Acq: 07 Aug 2019 20:01

Tgt Ion: 96 Resp: 464
Ion Ratio Lower Upper
96 100
61 146.8 106.2 159.2
98 65.6 50.6 75.8





#16

Acetone

Concen: 2.976 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.01 min

Lab File: VX011375.D

Acq: 07 Aug 2019 20:01

Instrument :

MSVOA_X

ClientSampleId :

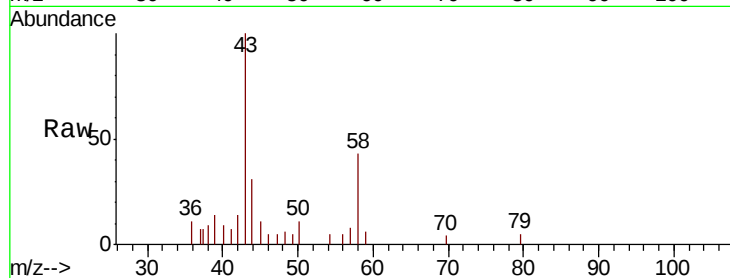
MW-23B_080719

Tgt Ion: 43 Resp: 2180

Ion Ratio Lower Upper

43 100

58 43.0 27.4 41.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

1200

1000

800

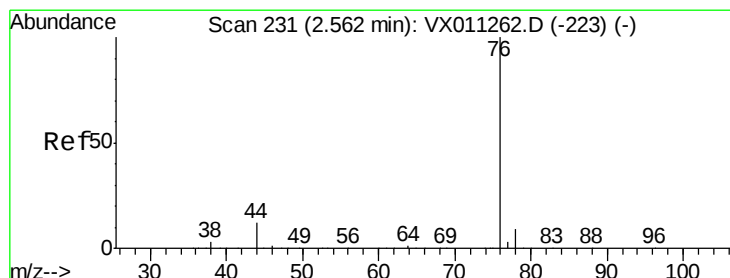
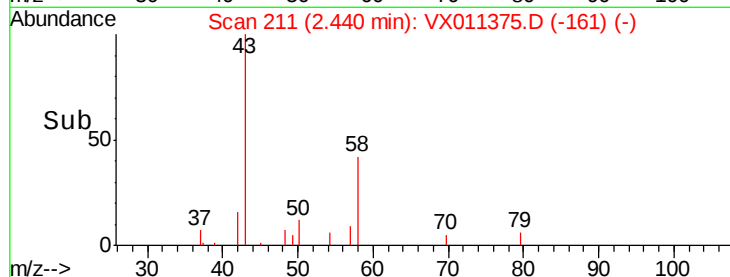
600

400

200

0

Time--> 2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 17.303 ug/l

RT: 2.56 min Scan# 231

Delta R.T. 0.00 min

Lab File: VX011375.D

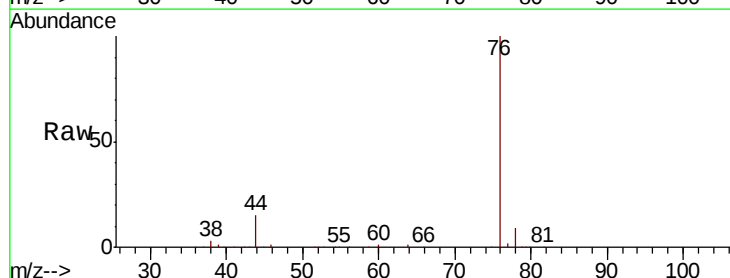
Acq: 07 Aug 2019 20:01

Tgt Ion: 76 Resp: 56449

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

40000

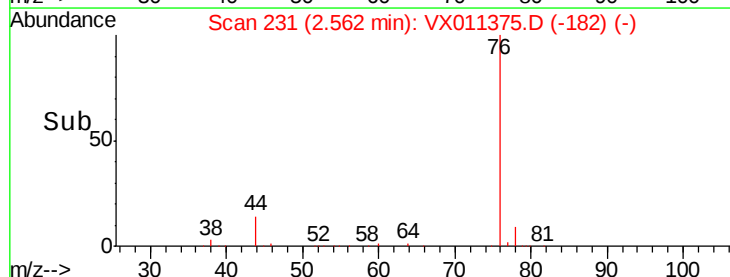
30000

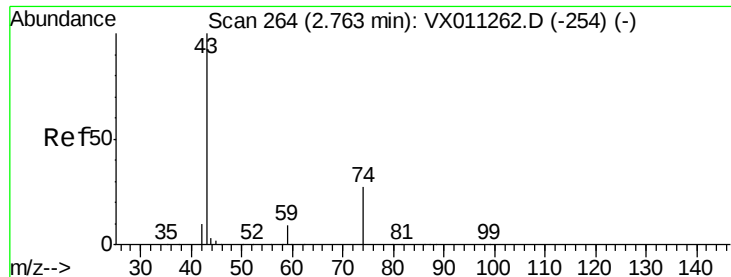
20000

10000

0

Time--> 2.50 2.55 2.60 2.65

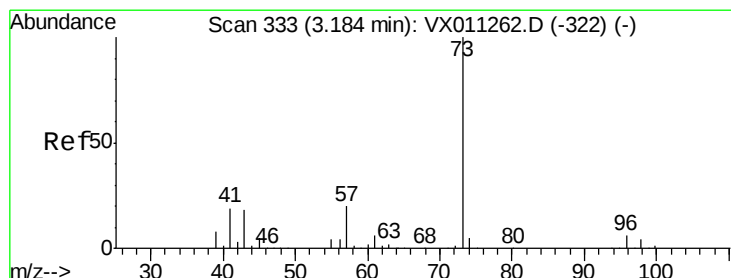
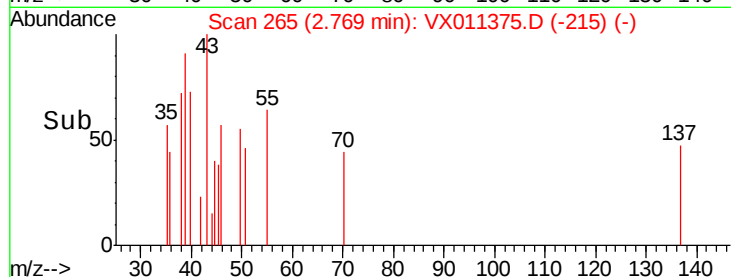
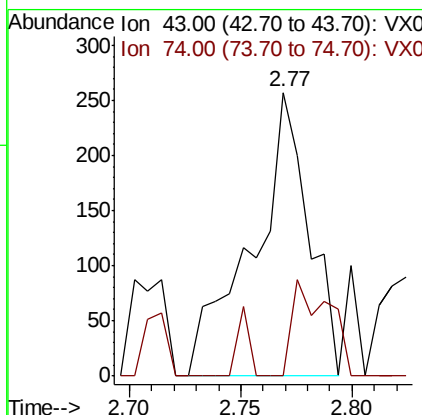
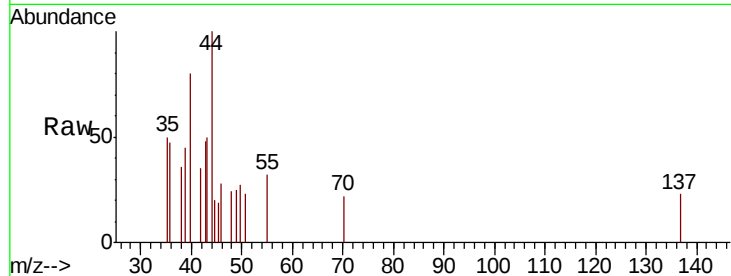




#18
Methyl Acetate
Concen: 0.269 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011375.D
Acq: 07 Aug 2019 20:01

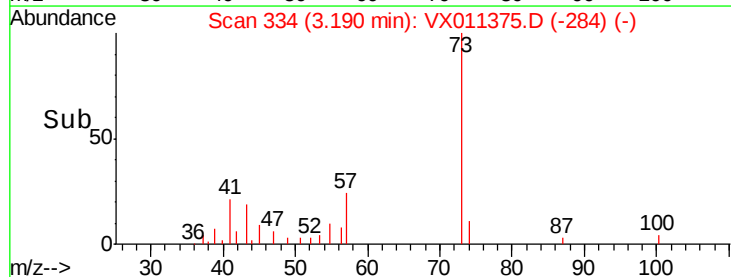
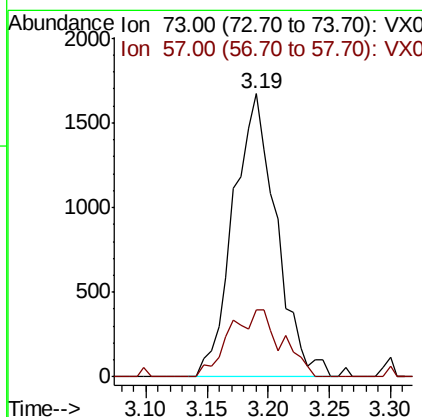
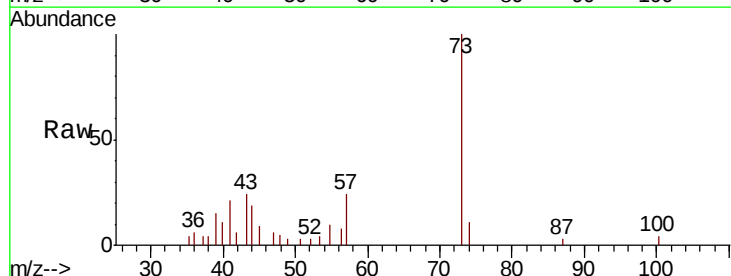
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MW-23B_080719

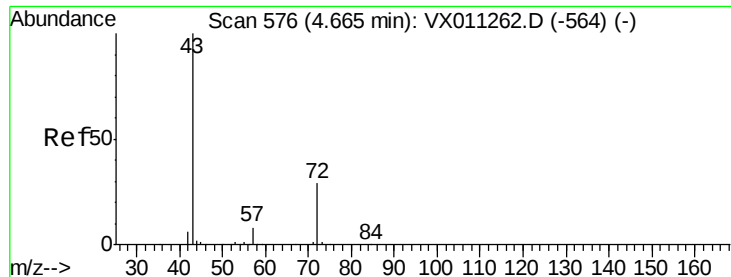
Tgt Ion: 43 Resp: 451
Ion Ratio Lower Upper
43 100
74 21.7 21.0 31.6



#19
Methyl tert-butyl Ether
Concen: 0.997 ug/l
RT: 3.19 min Scan# 334
Delta R.T. 0.01 min
Lab File: VX011375.D
Acq: 07 Aug 2019 20:01

Tgt Ion: 73 Resp: 4085
Ion Ratio Lower Upper
73 100
57 23.6 16.2 24.2





#25

2-Butanone

Concen: 0.276 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX011375.D

Acq: 07 Aug 2019 20:01

Instrument :

MSVOA_X

ClientSampleId :

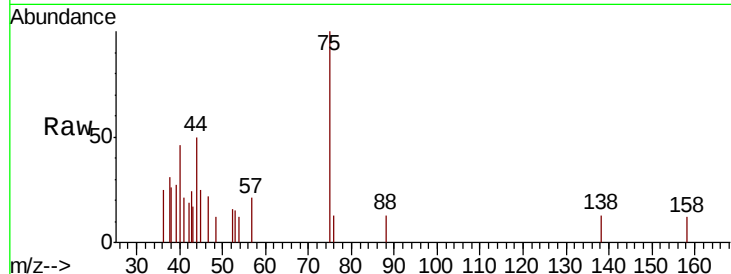
MW-23B_080719

Tgt Ion: 43 Resp: 288

Ion Ratio Lower Upper

43 100

72 0.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

200

150

100

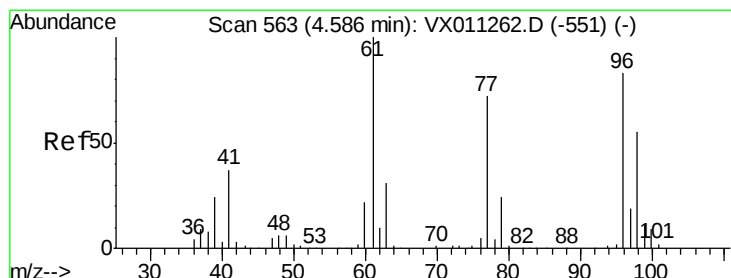
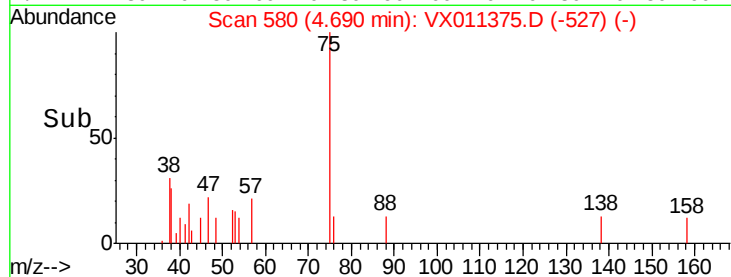
50

0

4.65

4.70

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.596 ug/l

RT: 4.59 min Scan# 563

Delta R.T. 0.00 min

Lab File: VX011375.D

Acq: 07 Aug 2019 20:01

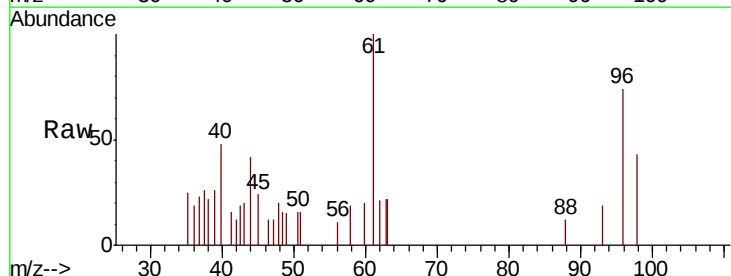
Tgt Ion: 96 Resp: 1009

Ion Ratio Lower Upper

96 100

61 138.3 0.0 260.2

98 77.8 0.0 133.2



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

600

500

400

300

200

100

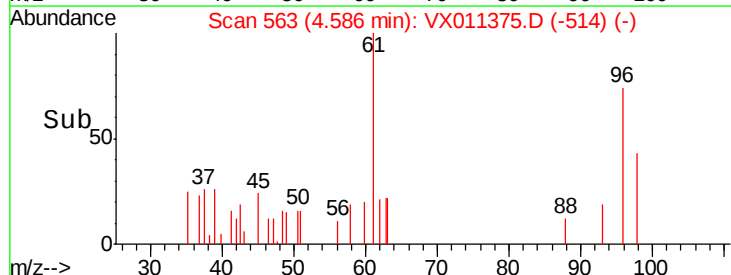
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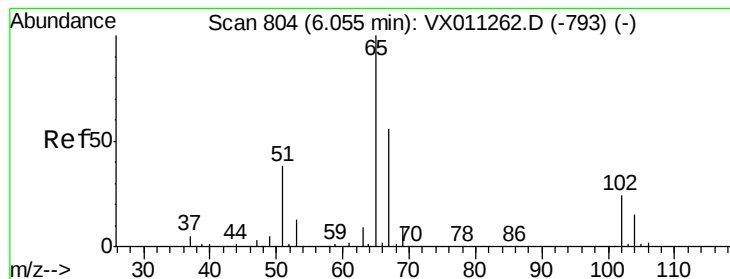
4.55

4.60

4.65

Time-->





#33

1,2-Dichloroethane-d4

Concen: 58.533 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011375.D

Acq: 07 Aug 2019 20:01

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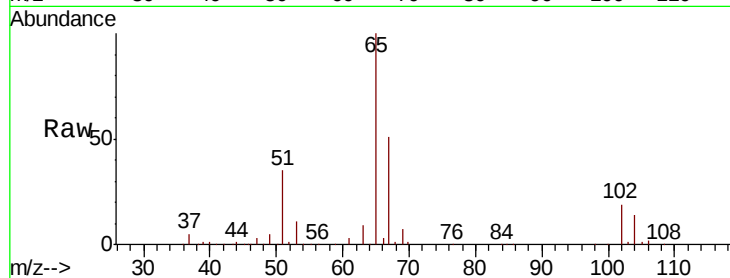
MW-23B_080719

Tgt Ion: 65 Resp: 90068

Ion Ratio Lower Upper

65 100

67 52.8 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

40000

30000

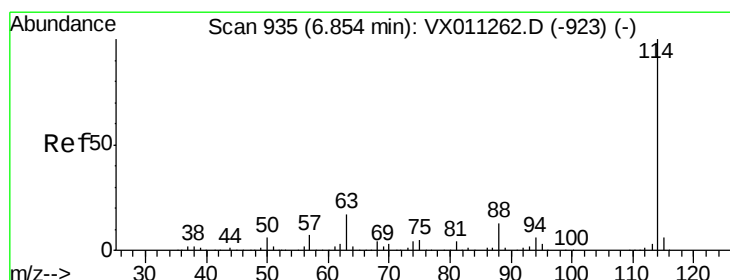
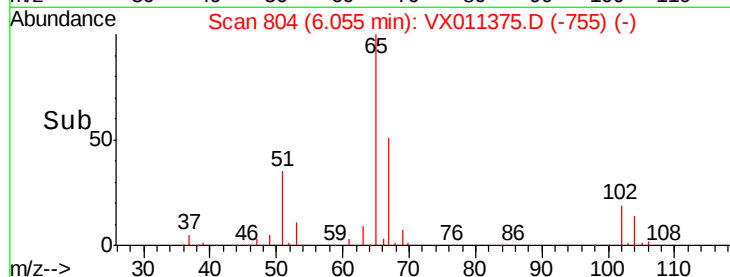
20000

10000

0

Time-->

6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011375.D

Acq: 07 Aug 2019 20:01

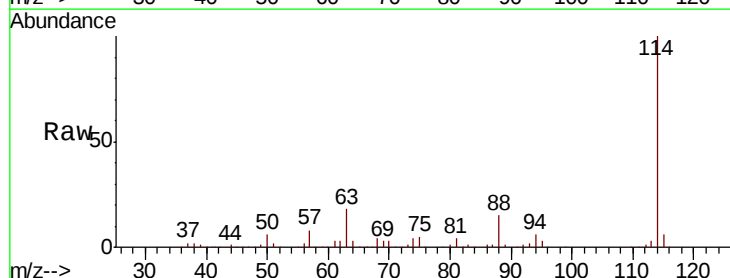
Tgt Ion: 114 Resp: 251766

Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.0

88 14.9 0.0 26.4



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

150000

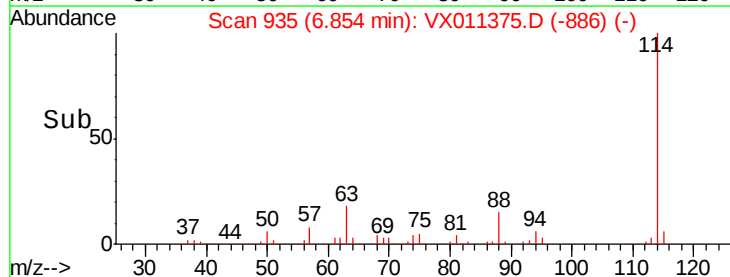
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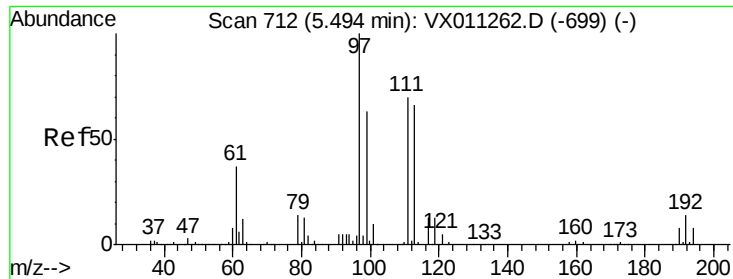
50000

0

Time-->

6.70 6.80 6.90 7.00

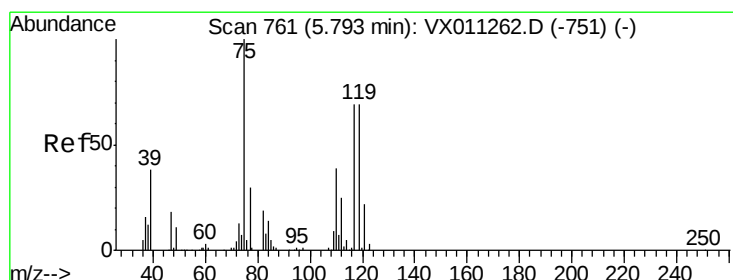
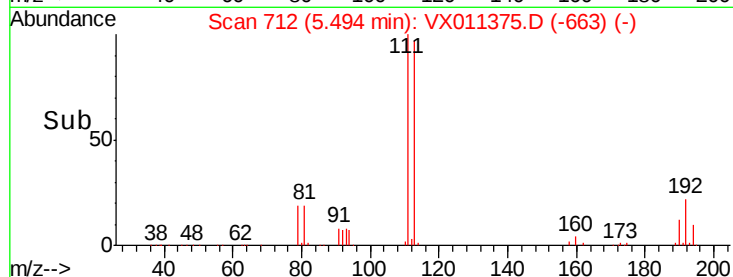
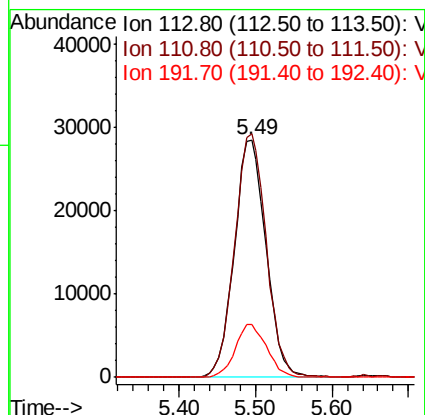
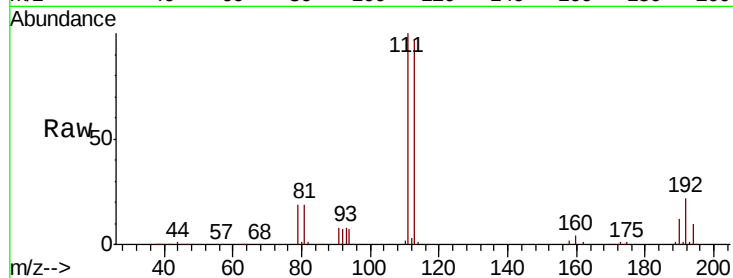




#35
 Dibromofluoromethane
 Concen: 49.831 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011375.D
 Acq: 07 Aug 2019 20:01

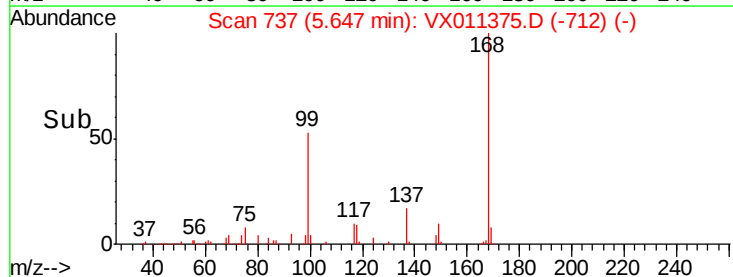
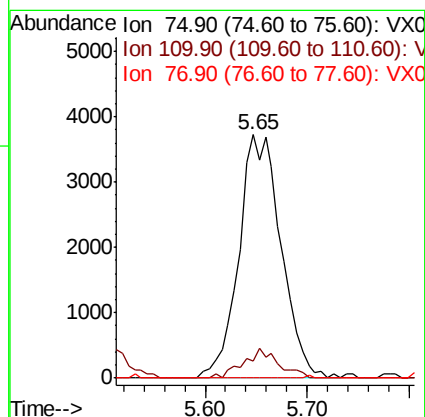
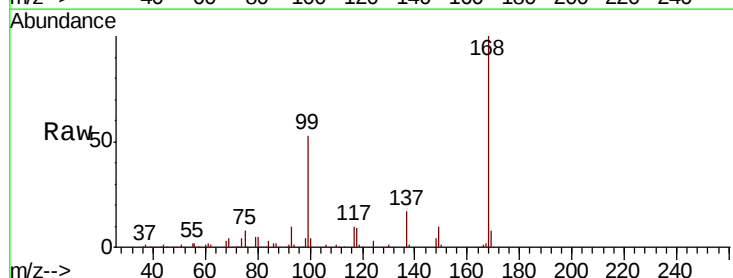
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-23B_080719

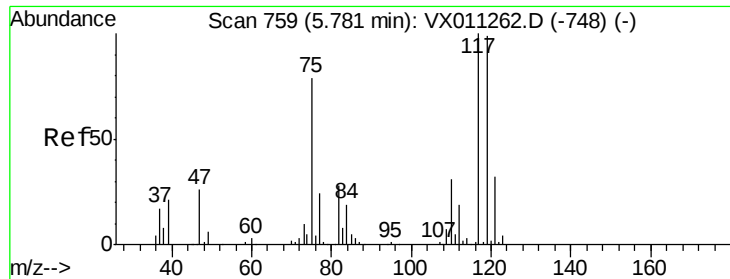
Tgt Ion:113 Resp: 81908
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.9 122.9
 192 22.0 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 4.857 ug/l
 RT: 5.65 min Scan# 737
 Delta R.T. -0.15 min
 Lab File: VX011375.D
 Acq: 07 Aug 2019 20:01

Tgt Ion: 75 Resp: 10676
 Ion Ratio Lower Upper
 75 100
 110 10.1 20.0 59.9#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.606 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011375.D

Acq: 07 Aug 2019 20:01

Instrument :

MSVOA_X

ClientSampleId :

MW-23B_080719

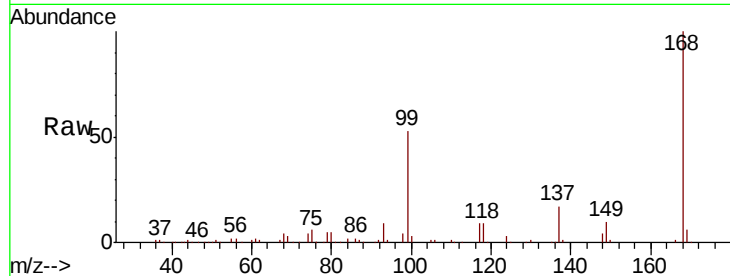
Tgt Ion:117 Resp: 14609

Ion Ratio Lower Upper

117 100

119 4.5 79.0 118.4#

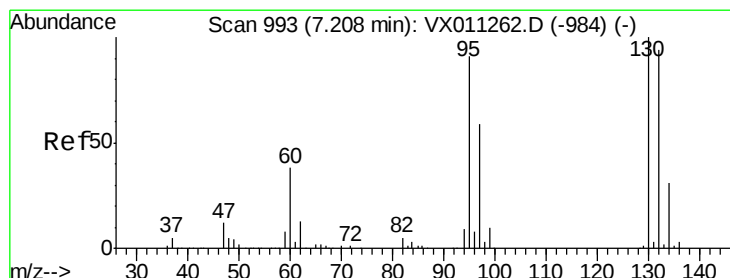
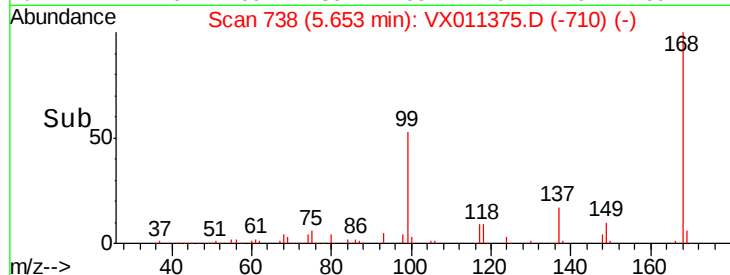
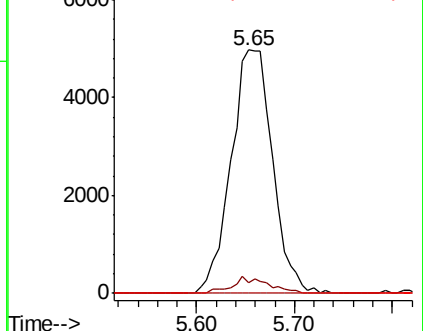
121 0.0 25.9 38.9#



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: 8.642 ug/l

RT: 7.21 min Scan# 993

Delta R.T. 0.00 min

Lab File: VX011375.D

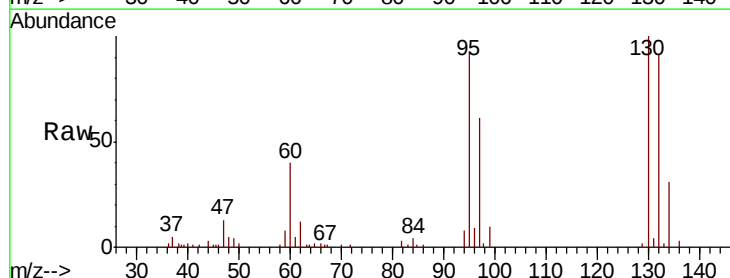
Acq: 07 Aug 2019 20:01

Tgt Ion:130 Resp: 17159

Ion Ratio Lower Upper

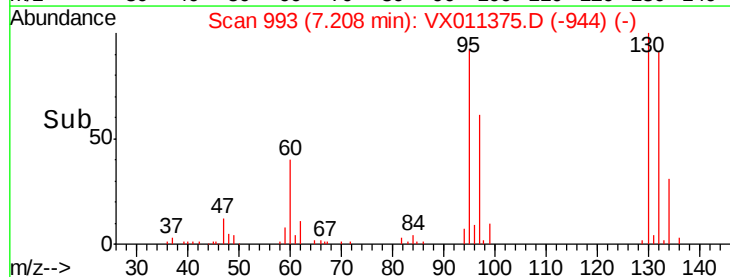
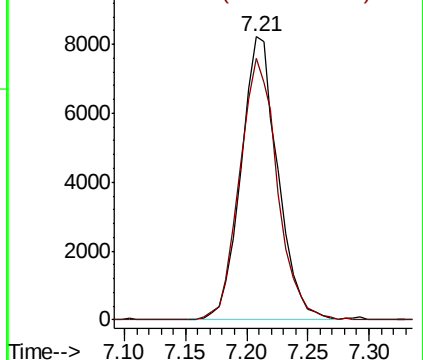
130 100

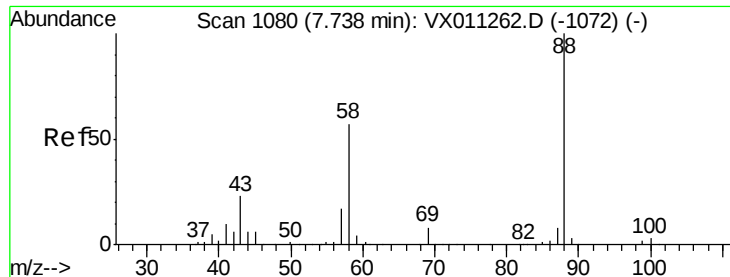
95 92.6 0.0 182.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.437 ug/l

RT: 7.89 min Scan# 1105

Delta R.T. 0.15 min

Lab File: VX011375.D

Acq: 07 Aug 2019 20:01

Instrument :

MSVOA_X

ClientSampleId :

MW-23B_080719

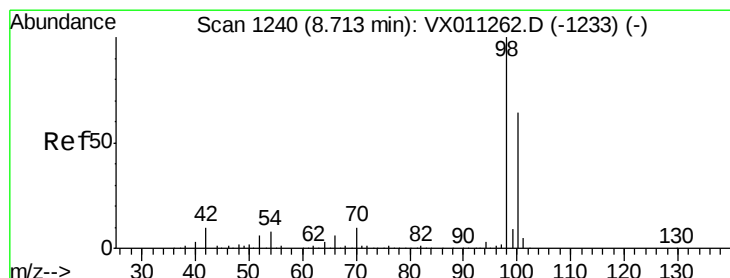
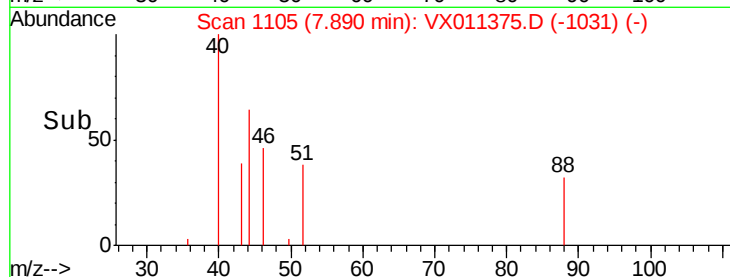
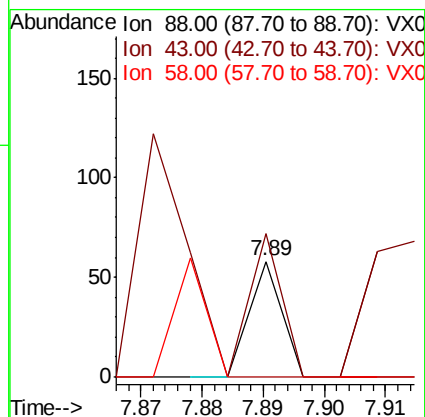
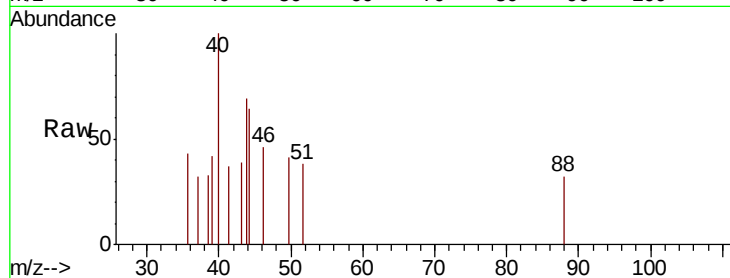
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 319.0 22.2 33.2#

58 104.8 47.8 71.8#



#50

Toluene-d8

Concen: 49.305 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011375.D

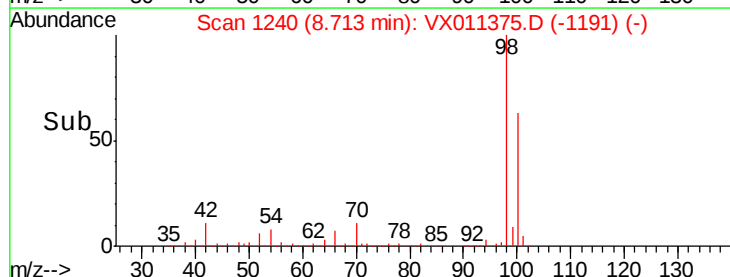
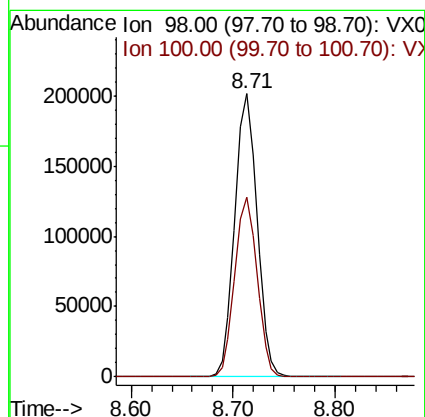
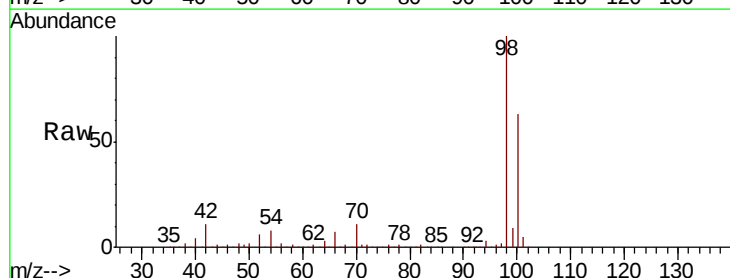
Acq: 07 Aug 2019 20:01

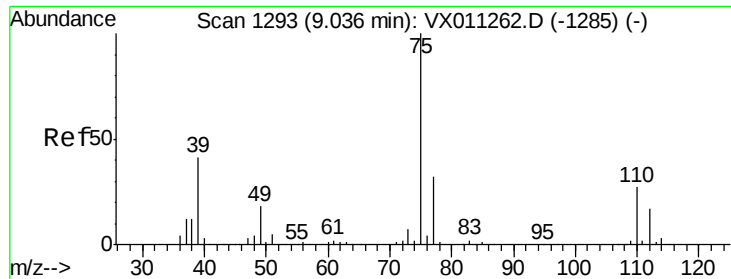
Tgt Ion: 98 Resp: 305919

Ion Ratio Lower Upper

98 100

100 63.6 51.7 77.5

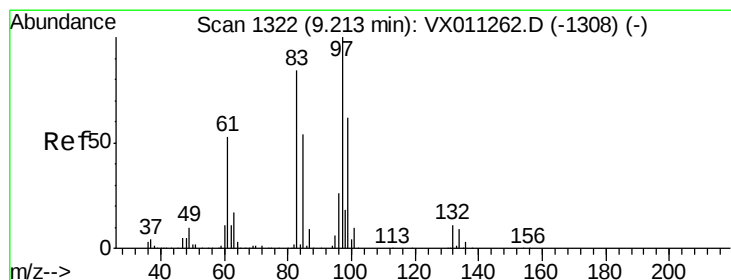
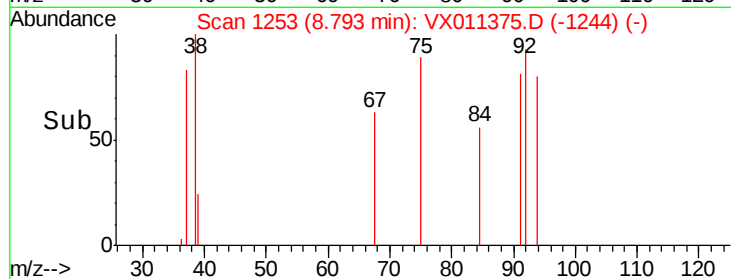
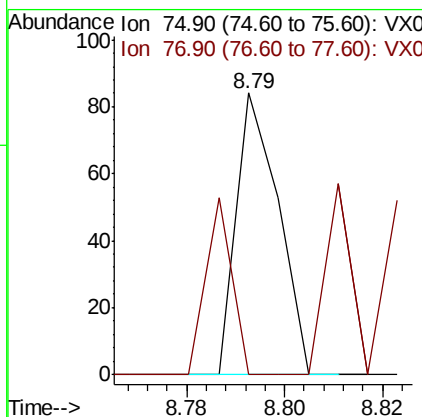
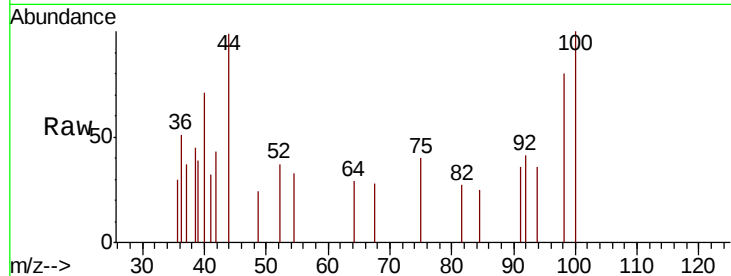




#53
t-1,3-Dichloropropene
Concen: 2.858 ug/l
RT: 8.79 min Scan# 1253
Delta R.T. -0.24 min
Lab File: VX011375.D
Acq: 07 Aug 2019 20:01

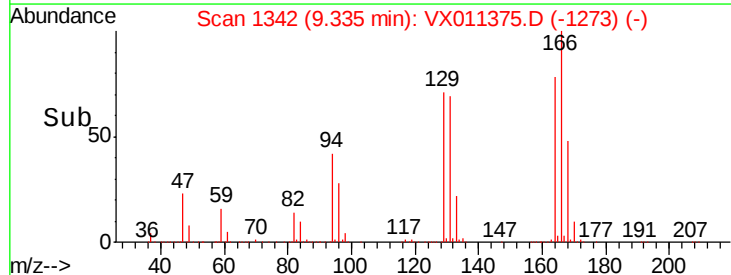
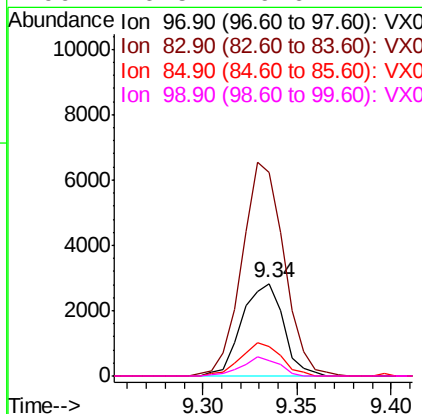
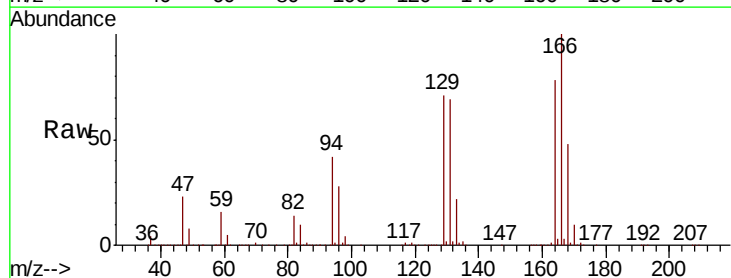
Instrument :
MSVOA_X
ClientSampleId :
MW-23B_080719

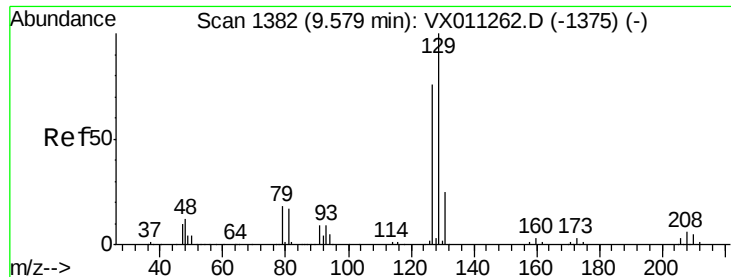
Tgt Ion: 75 Resp: 50
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#55
1,1,2-Trichloroethane
Concen: 2.420 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.12 min
Lab File: VX011375.D
Acq: 07 Aug 2019 20:01

Tgt Ion: 97 Resp: 4315
Ion Ratio Lower Upper
97 100
83 220.4 67.6 101.4#
85 31.7 43.4 65.0#
99 16.5 49.6 74.4#

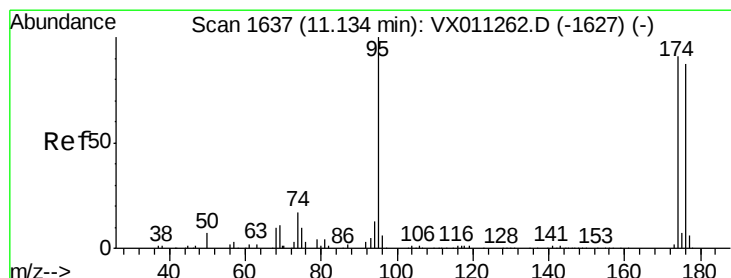
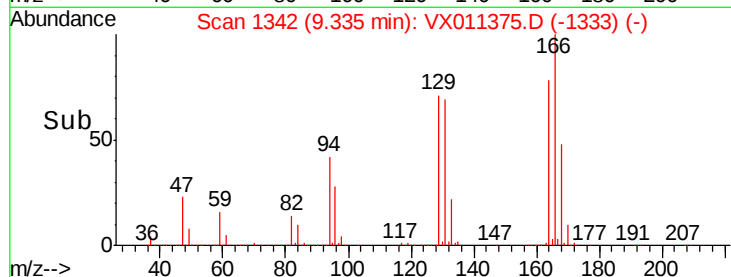
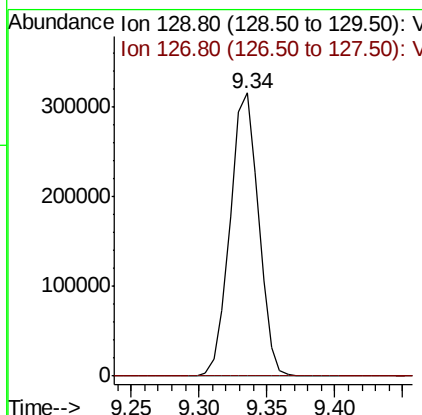
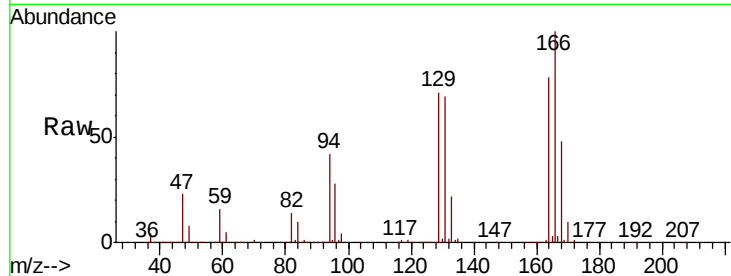




#60
 Dibromochloromethane
 Concen: 252.629 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX011375.D
 Acq: 07 Aug 2019 20:01

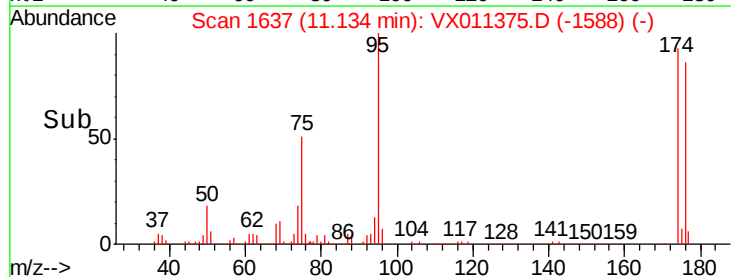
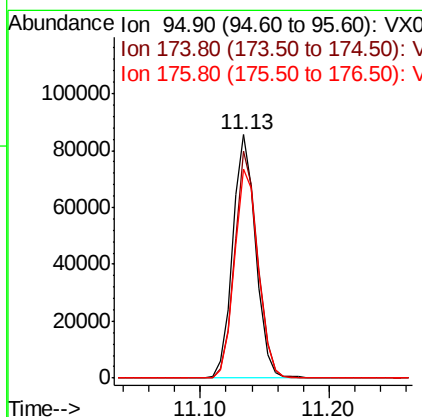
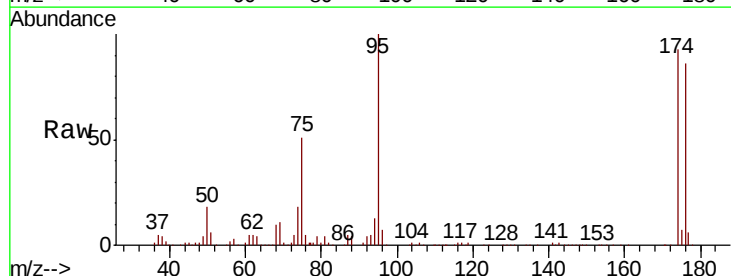
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-23B_080719

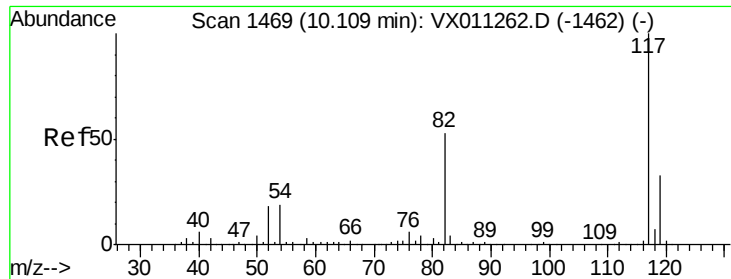
Tgt Ion:129 Resp: 461201
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.2 117.6#



#62
 4-Bromofluorobenzene
 Concen: 48.313 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX011375.D
 Acq: 07 Aug 2019 20:01

Tgt Ion: 95 Resp: 107022
 Ion Ratio Lower Upper
 95 100
 174 92.9 0.0 191.2
 176 88.7 0.0 184.8

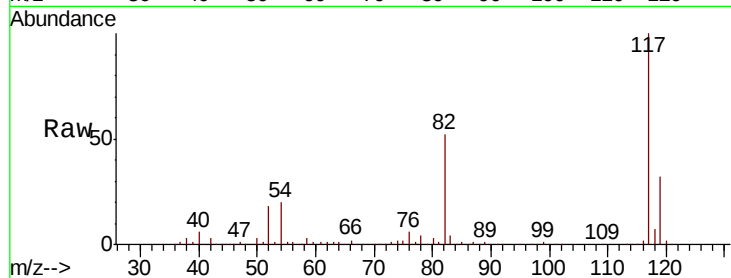




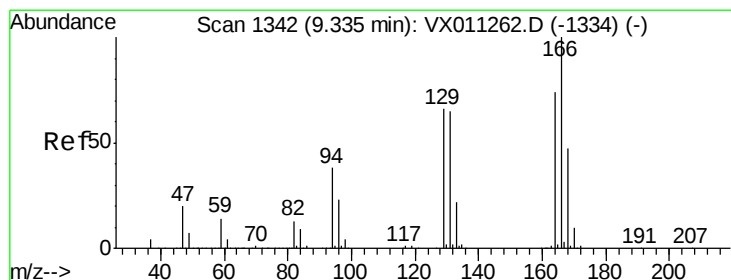
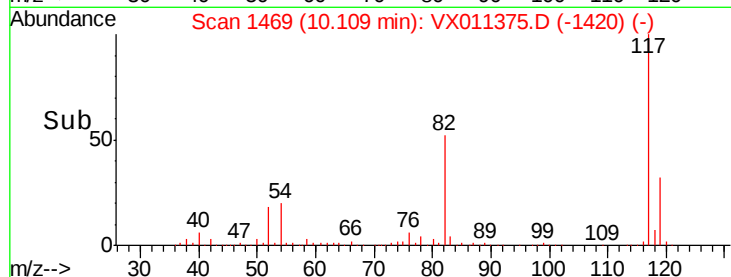
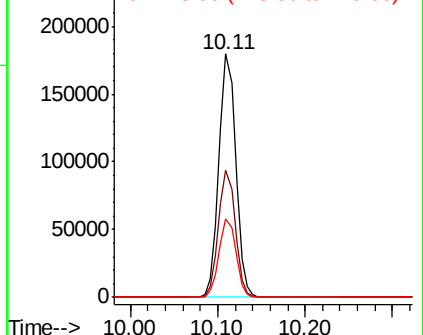
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011375.D
Acq: 07 Aug 2019 20:01

Instrument :
MSVOA_X
ClientSampleId :
MW-23B_080719

Tgt Ion:117 Resp: 240043
Ion Ratio Lower Upper
117 100
82 52.3 42.2 63.2
119 32.3 26.6 39.8

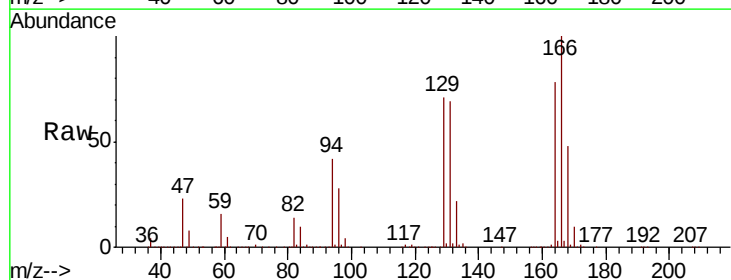


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

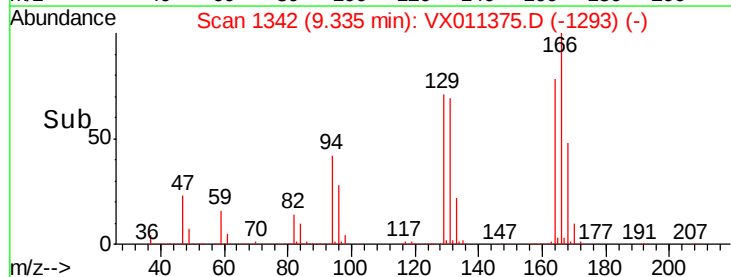
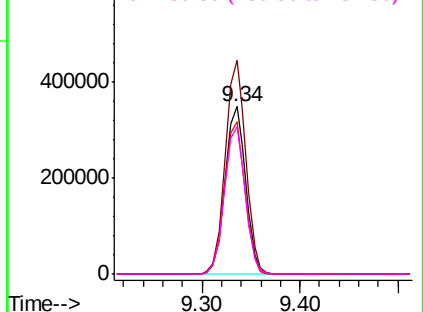


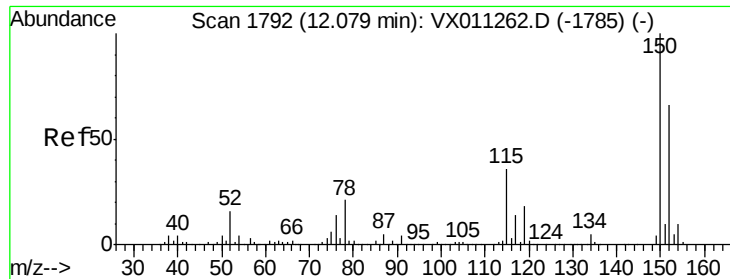
#64
Tetrachloroethene
Concen: 248.463 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX011375.D
Acq: 07 Aug 2019 20:01

Tgt Ion:164 Resp: 506502
Ion Ratio Lower Upper
164 100
166 127.5 107.5 161.3
129 90.6 71.0 106.4
131 88.0 69.8 104.6



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011375.D

Acq: 07 Aug 2019 20:01

Instrument :

MSVOA_X

ClientSampleId :

MW-23B_080719

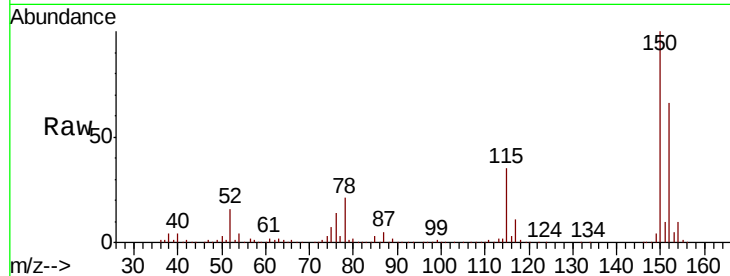
Tgt Ion:152 Resp: 111275

Ion Ratio Lower Upper

152 100

115 55.7 40.0 119.9

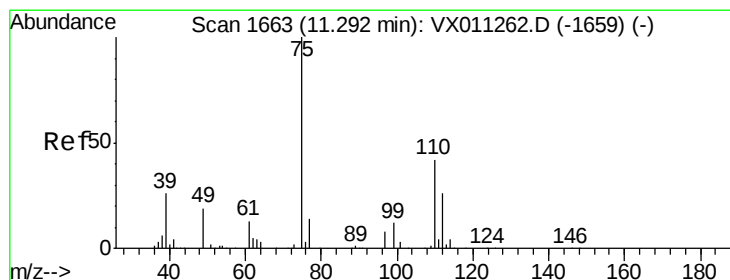
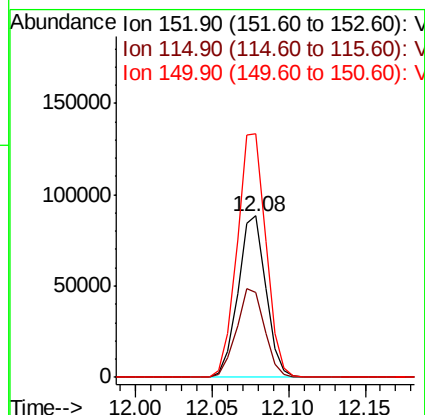
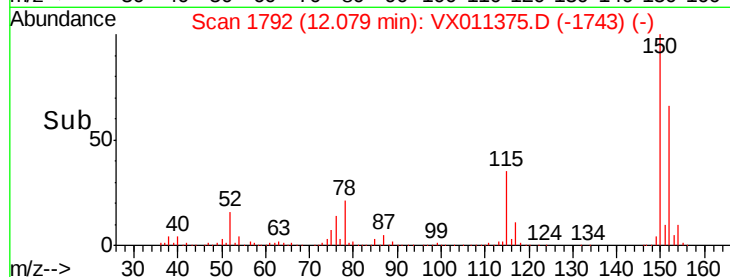
150 156.1 0.0 350.4



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: 26.993 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011375.D

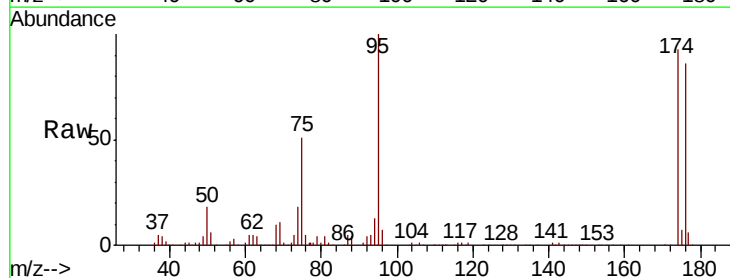
Acq: 07 Aug 2019 20:01

Tgt Ion: 75 Resp: 54700

Ion Ratio Lower Upper

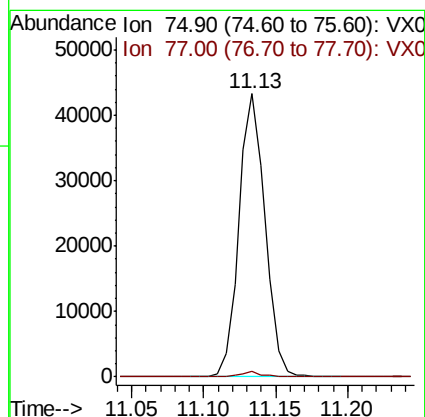
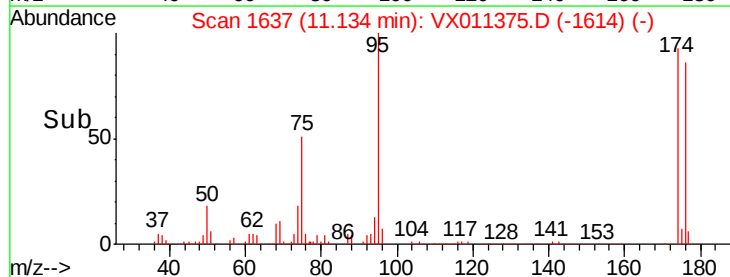
75 100

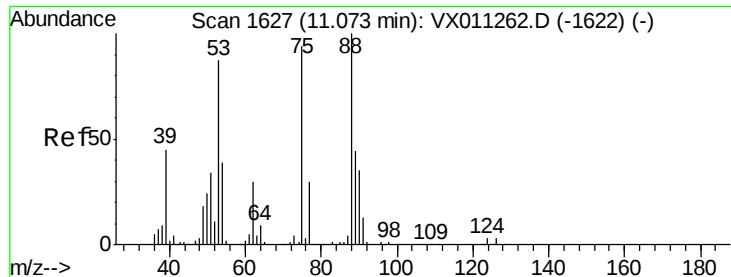
77 1.5 21.1 63.4#



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: 70.079 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011375.D

Acq: 07 Aug 2019 20:01

Instrument :

MSVOA_X

ClientSampleId :

MW-23B_080719

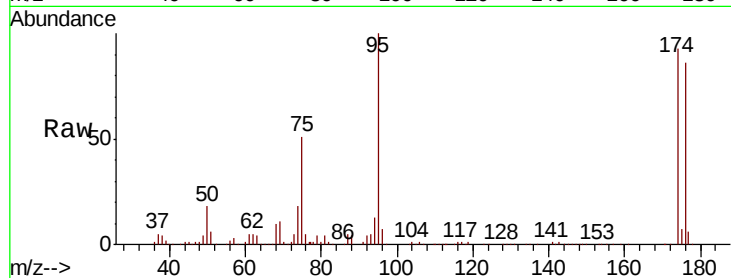
Tgt Ion: 75 Resp: 54700

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 37.9 56.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

