

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081219\
 Data File : VX011481.D
 Acq On : 12 Aug 2019 14:19
 Operator : JC/SP
 Sample : K4262-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-8 080819

Quant Time: Aug 13 07:39:08 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	188632	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	283608	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	254960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	115502	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	104493	55.01	ug/l	0.00
Spiked Amount			Recovery	=	110.02%	
35) Dibromofluoromethane	5.49	113	87446	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	
50) Toluene-d8	8.71	98	330318	47.26	ug/l	0.00
Spiked Amount			Recovery	=	94.52%	
62) 4-Bromofluorobenzene	11.13	95	109025	43.69	ug/l	0.00
Spiked Amount			Recovery	=	87.38%	

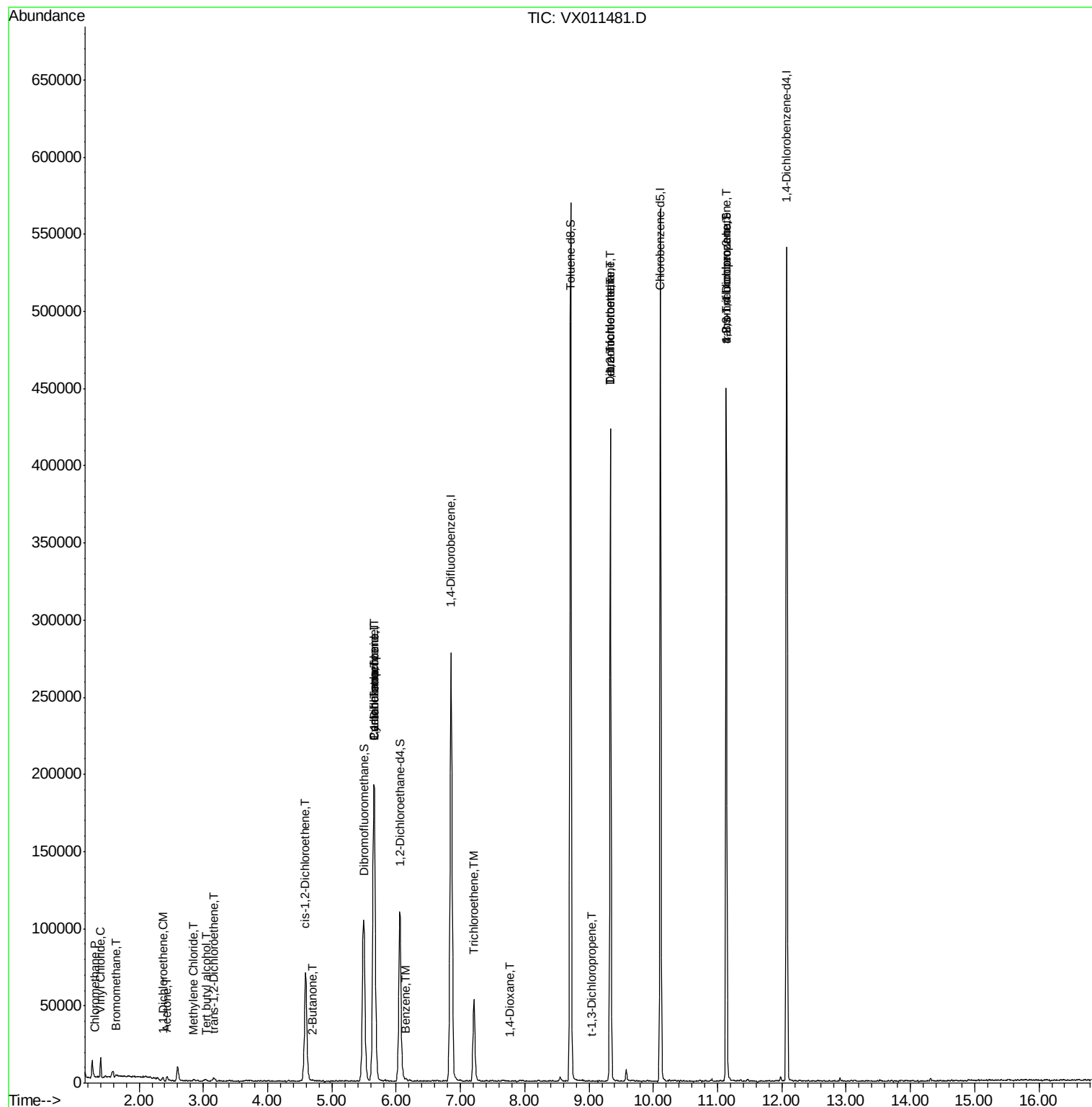
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	432	0.264	ug/l #	87
4) Vinyl Chloride	1.40	62	8406	4.671	ug/l	92
5) Bromomethane	1.65	94	686	0.534	ug/l	90
6) Chloroethane	1.71	64	249	Below Cal	#	86
11) Tert butyl alcohol	3.04	59	947	2.523	ug/l	95
12) 1,1-Dichloroethene	2.37	96	473	0.276	ug/l	89
13) Acrolein	2.29	56	90	Below Cal		92
16) Acetone	2.43	43	2869	3.173	ug/l #	87
20) Methylene Chloride	2.85	84	442	0.223	ug/l #	57
21) trans-1,2-Dichloroethene	3.15	96	777	0.428	ug/l #	90
25) 2-Butanone	4.70	43	332	0.258	ug/l #	46
27) cis-1,2-Dichloroethene	4.59	96	46985	22.469	ug/l	92
31) Cyclohexane	5.65	56	4072	1.665	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13046	5.269	ug/l #	50
38) Carbon Tetrachloride	5.65	117	18196	7.304	ug/l #	14
40) Benzene	6.15	78	1504	0.204	ug/l #	72
44) Trichloroethene	7.21	130	20864	9.329	ug/l	98
49) 1,4-Dioxane	7.77	88	50	0.923	ug/l #	1
53) t-1,3-Dichloropropene	9.04	75	19	2.845	ug/l #	43
55) 1,1,2-Trichloroethane	9.33	97	695	0.346	ug/l #	15
60) Dibromochloromethane	9.34	129	76639	37.267	ug/l #	10
64) Tetrachloroethene	9.34	164	82763	38.224	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	56316	26.773	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	56316	69.546	ug/l #	10

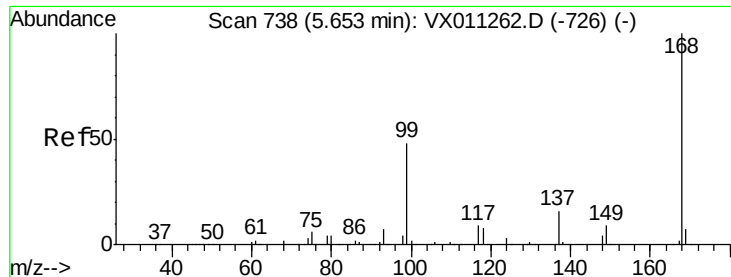
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX011481.D

Acq: 12 Aug 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

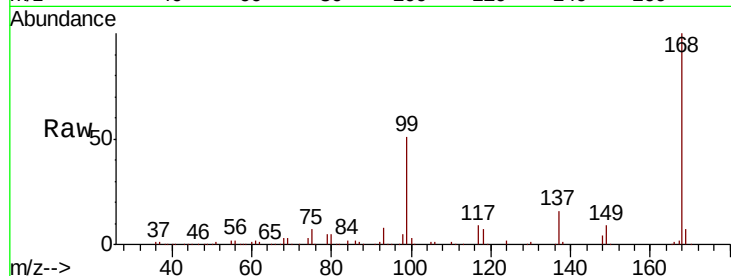
MW-8 080819

Tgt Ion:168 Resp: 188632

Ion Ratio Lower Upper

168 100

99 51.4 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

80000

60000

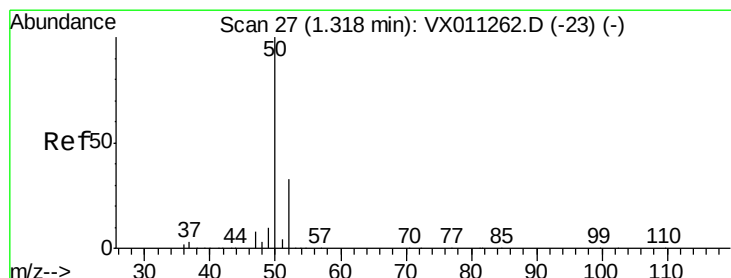
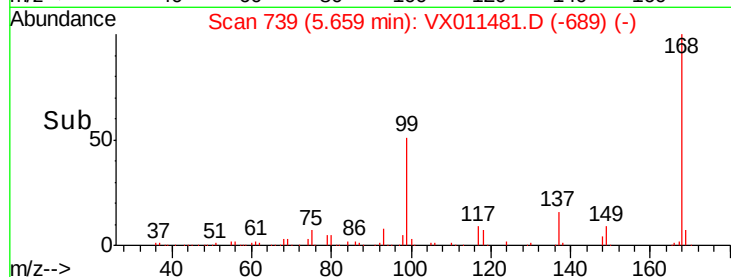
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.264 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011481.D

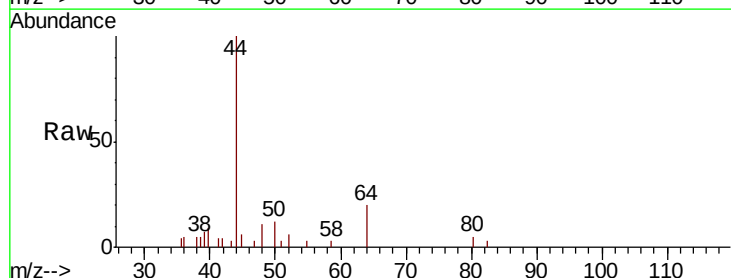
Acq: 12 Aug 2019 14:19

Tgt Ion: 50 Resp: 432

Ion Ratio Lower Upper

50 100

52 25.7 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

250

200

150

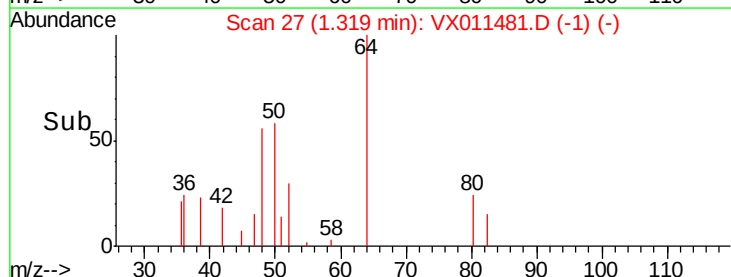
100

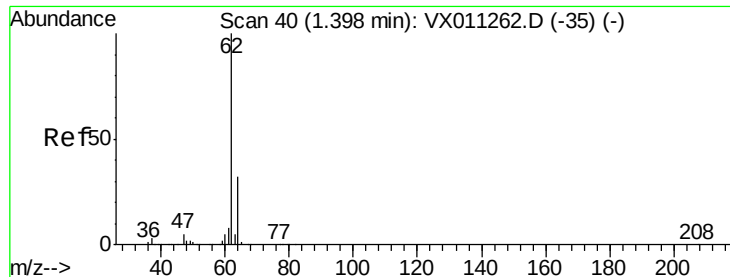
50

0

Time-->

1.30 1.35





#4

Vinyl Chloride

Concen: 4.671 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.01 min

Lab File: VX011481.D

Acq: 12 Aug 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

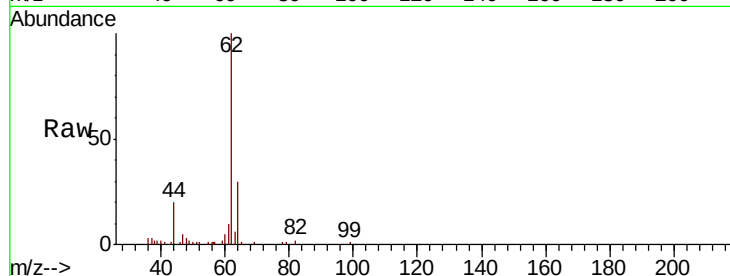
MW-8 080819

Tgt Ion: 62 Resp: 8406

Ion Ratio Lower Upper

62 100

64 28.3 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

8000

6000

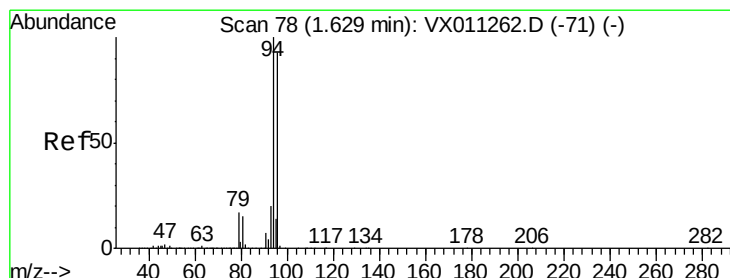
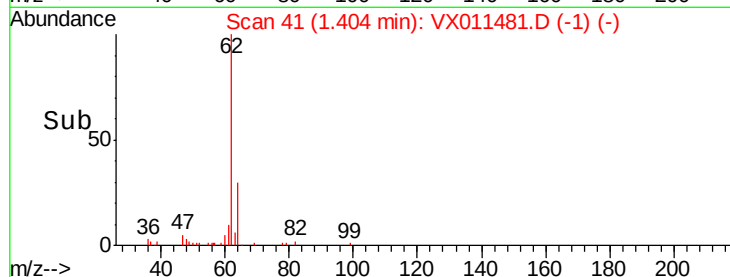
4000

2000

0

1.35 1.40 1.45 1.50

Time-->



#5

Bromomethane

Concen: 0.534 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011481.D

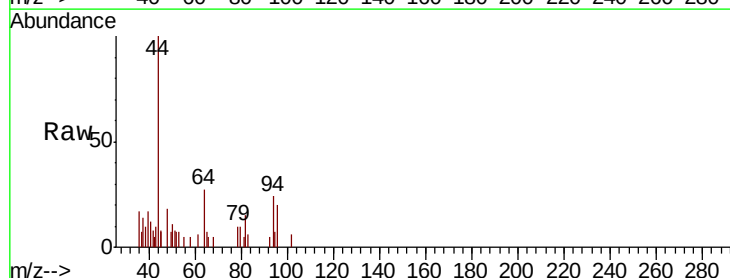
Acq: 12 Aug 2019 14:19

Tgt Ion: 94 Resp: 686

Ion Ratio Lower Upper

94 100

96 83.9 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

250

200

150

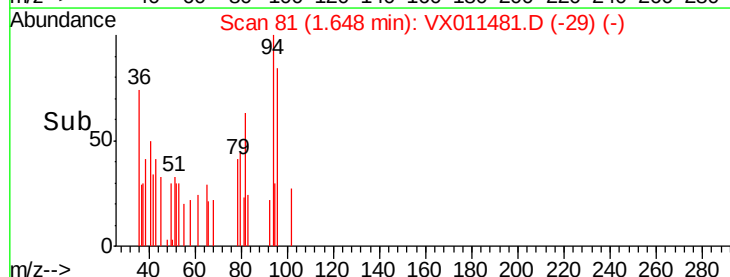
100

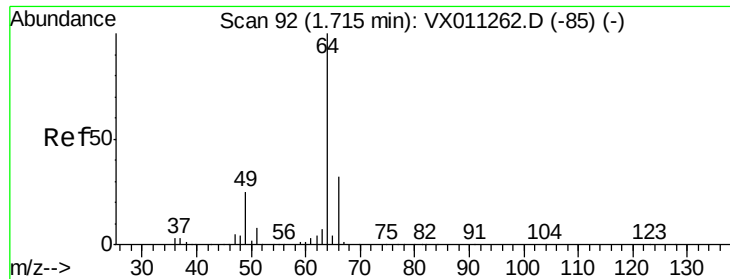
50

0

1.60 1.65 1.70

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX011481.D

Acq: 12 Aug 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

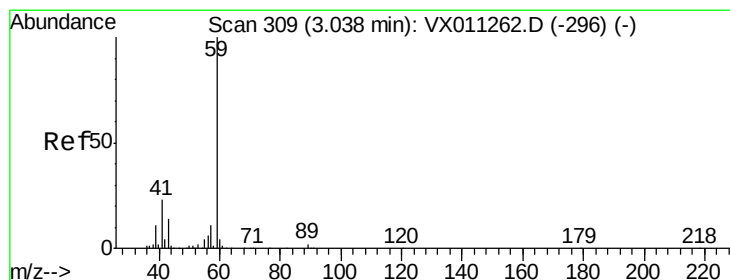
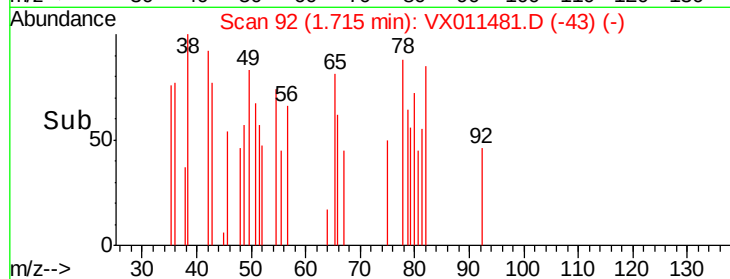
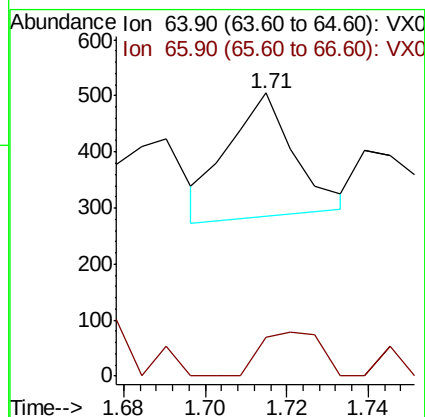
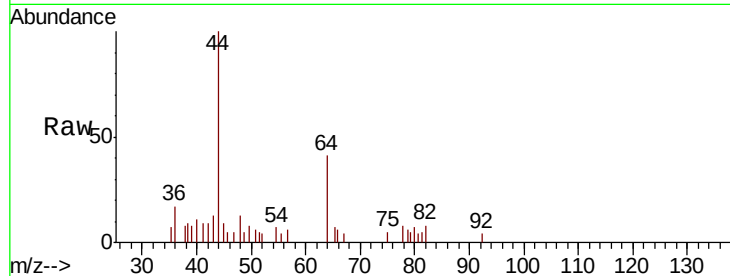
MW-8 080819

Tgt Ion: 64 Resp: 249

Ion Ratio Lower Upper

64 100

66 39.1 25.1 37.7#



#11

Tert butyl alcohol

Concen: 2.523 ug/l

RT: 3.04 min Scan# 310

Delta R.T. 0.01 min

Lab File: VX011481.D

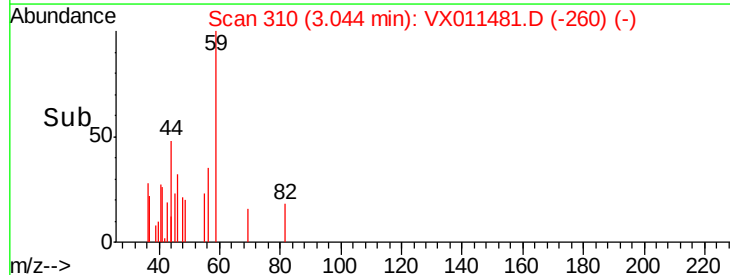
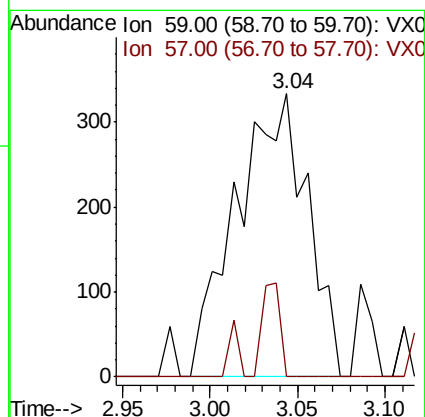
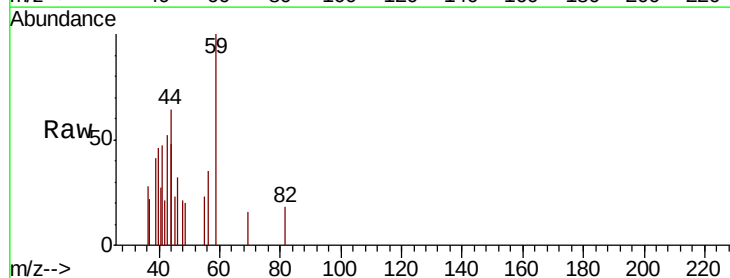
Acq: 12 Aug 2019 14:19

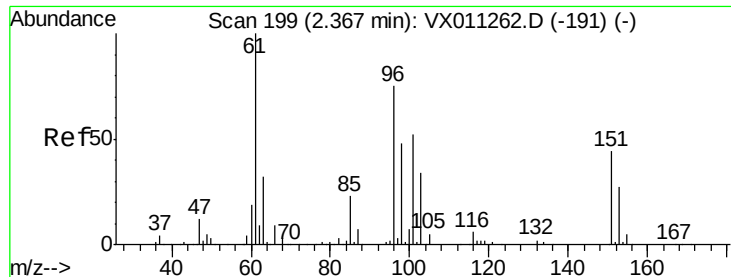
Tgt Ion: 59 Resp: 947

Ion Ratio Lower Upper

59 100

57 8.4 8.3 12.5

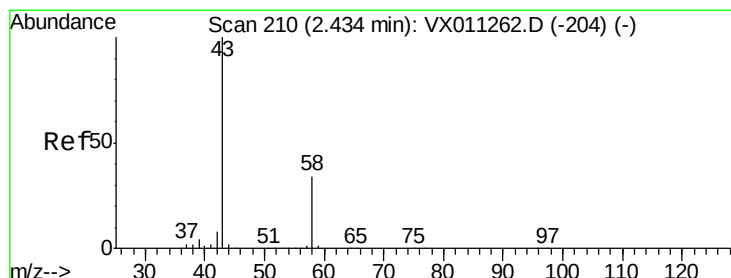
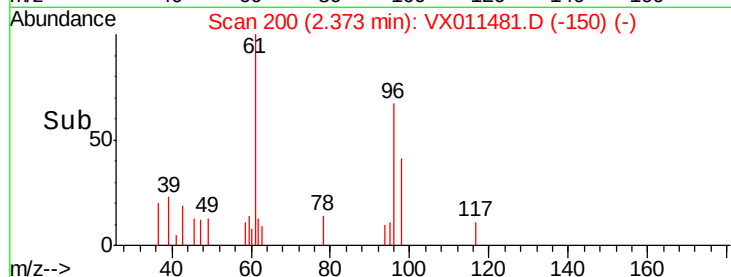
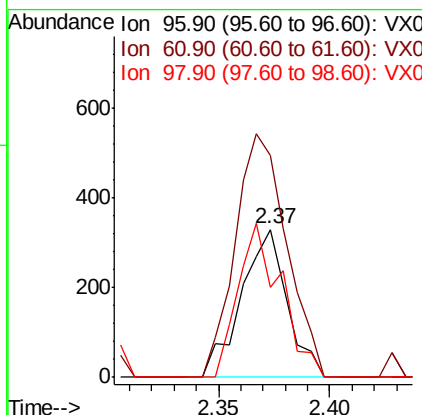
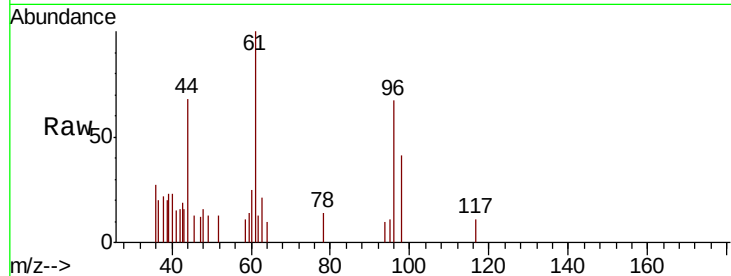




#12
 1,1-Dichloroethene
 Concen: 0.276 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. 0.01 min
 Lab File: VX011481.D
 Acq: 12 Aug 2019 14:19

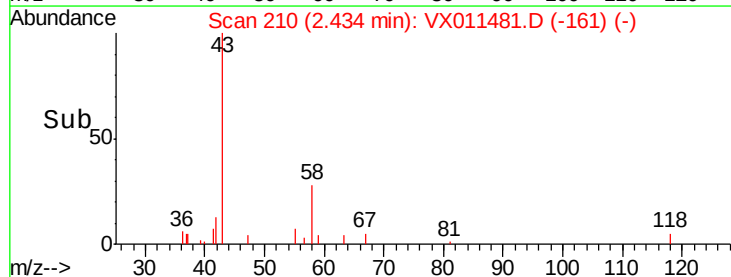
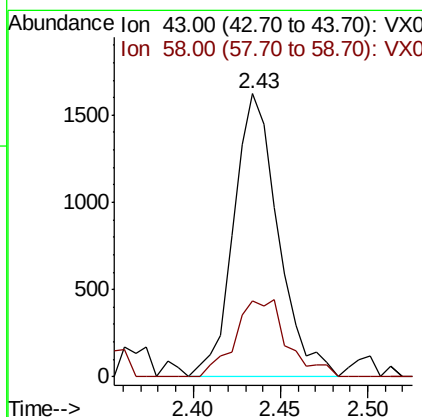
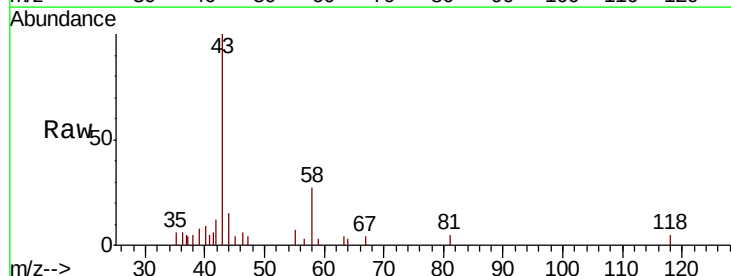
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-8 080819

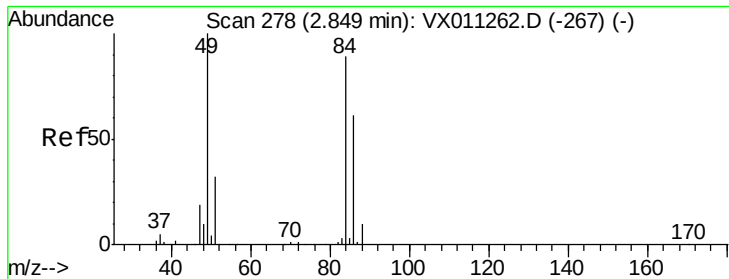
Tgt Ion: 96 Resp: 473
 Ion Ratio Lower Upper
 96 100
 61 150.2 106.2 159.2
 98 61.1 50.6 75.8



#16
 Acetone
 Concen: 3.173 ug/l
 RT: 2.43 min Scan# 210
 Delta R.T. 0.00 min
 Lab File: VX011481.D
 Acq: 12 Aug 2019 14:19

Tgt Ion: 43 Resp: 2869
 Ion Ratio Lower Upper
 43 100
 58 26.6 27.4 41.0#

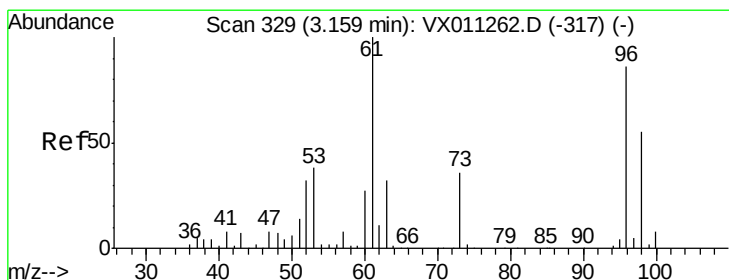
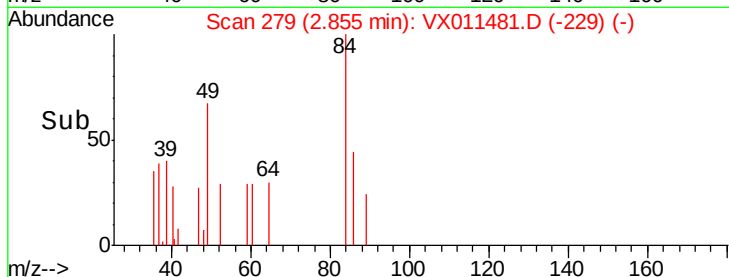
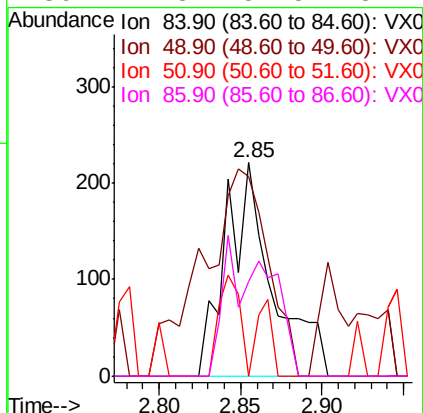
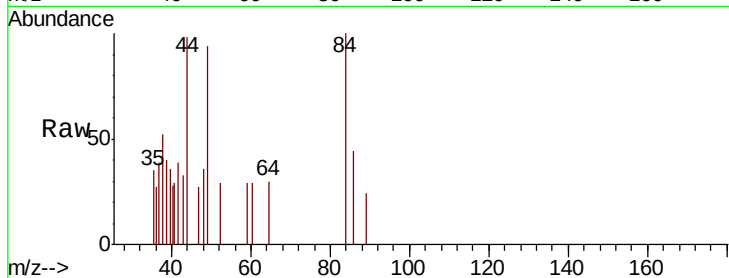




#20
Methylene Chloride
Concen: 0.223 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011481.D
Acq: 12 Aug 2019 14:19

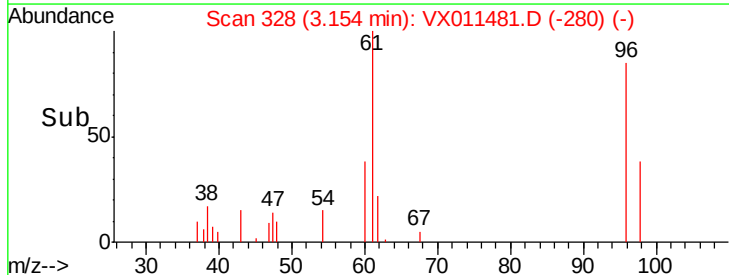
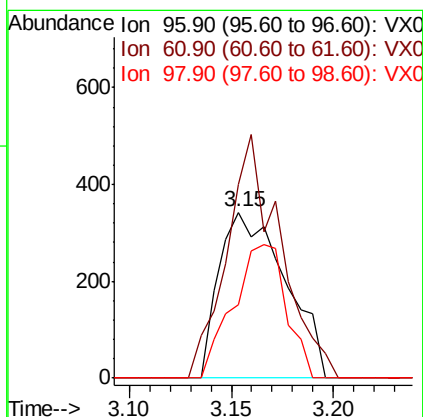
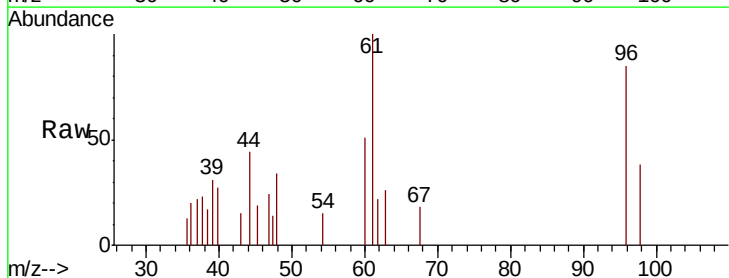
Instrument :
MSVOA_X
ClientSampled :
MW-8 080819

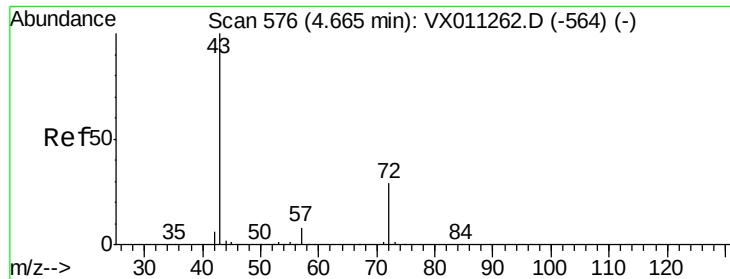
Tgt Ion: 84 Resp: 442
Ion Ratio Lower Upper
84 100
49 62.4 89.3 133.9#
51 0.0 28.3 42.5#
86 44.3 54.5 81.7#



#21
trans-1,2-Dichloroethene
Concen: 0.428 ug/l
RT: 3.15 min Scan# 328
Delta R.T. -0.01 min
Lab File: VX011481.D
Acq: 12 Aug 2019 14:19

Tgt Ion: 96 Resp: 777
Ion Ratio Lower Upper
96 100
61 117.3 92.8 139.2
98 44.2 51.2 76.8#





#25

2-Butanone

Concen: 0.258 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.04 min

Lab File: VX011481.D

Acq: 12 Aug 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

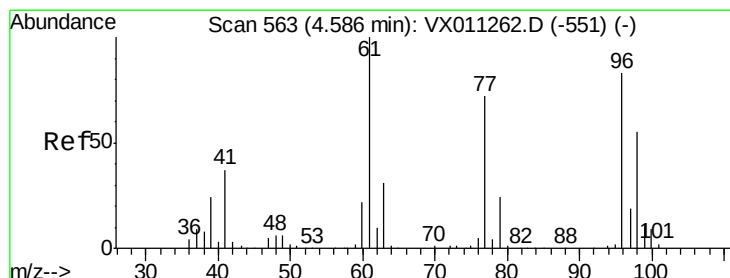
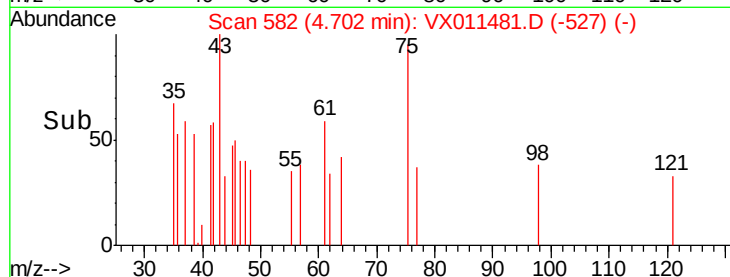
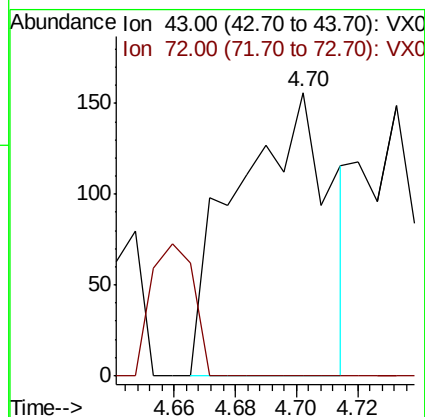
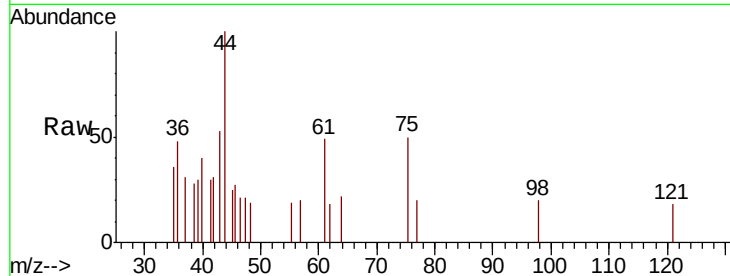
MW-8 080819

Tgt Ion: 43 Resp: 332

Ion Ratio Lower Upper

43 100

72 0.0 23.2 34.8#



#27

cis-1,2-Dichloroethene

Concen: 22.469 ug/l

RT: 4.59 min Scan# 563

Delta R.T. 0.00 min

Lab File: VX011481.D

Acq: 12 Aug 2019 14:19

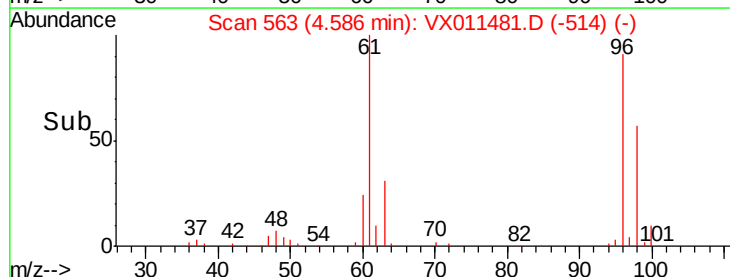
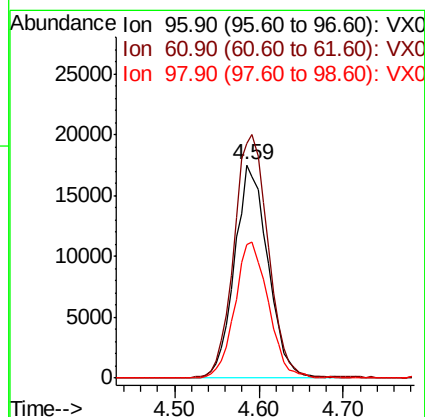
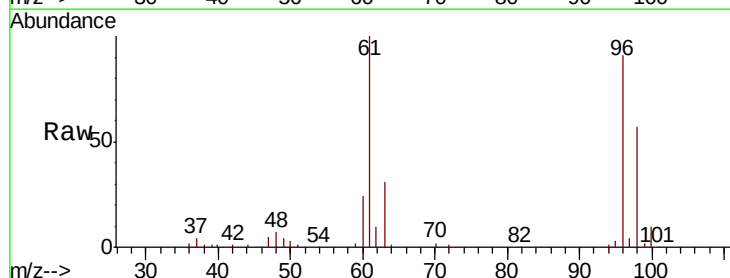
Tgt Ion: 96 Resp: 46985

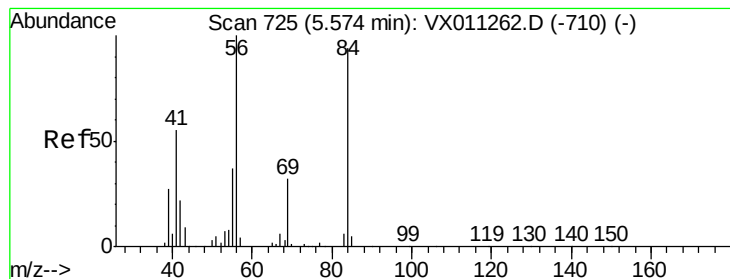
Ion Ratio Lower Upper

96 100

61 117.1 0.0 260.2

98 64.2 0.0 133.2





#31

Cyclohexane

Concen: 1.665 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011481.D

Acq: 12 Aug 2019 14:19

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MSVOA_X

ClientSampleId :

MW-8 080819

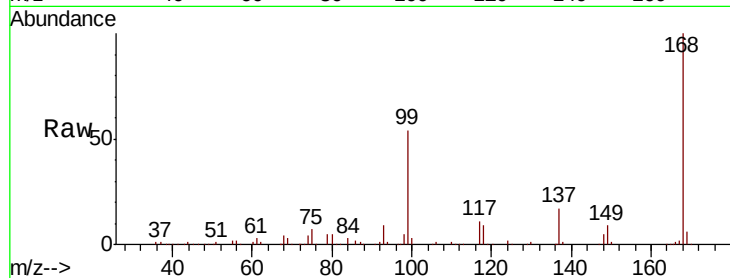
Tgt Ion: 56 Resp: 4072

Ion Ratio Lower Upper

56 100

69 163.3 25.5 38.3#

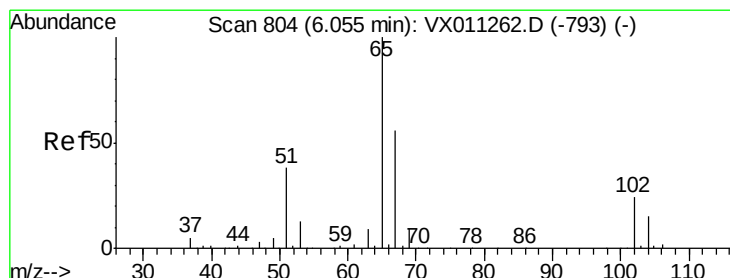
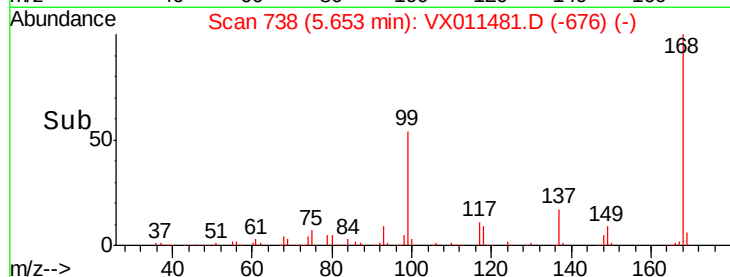
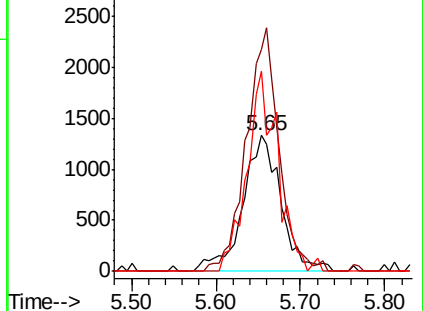
84 146.7 75.0 112.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 55.007 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011481.D

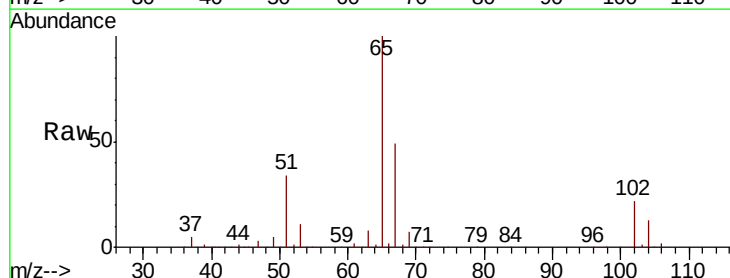
Acq: 12 Aug 2019 14:19

Tgt Ion: 65 Resp: 104493

Ion Ratio Lower Upper

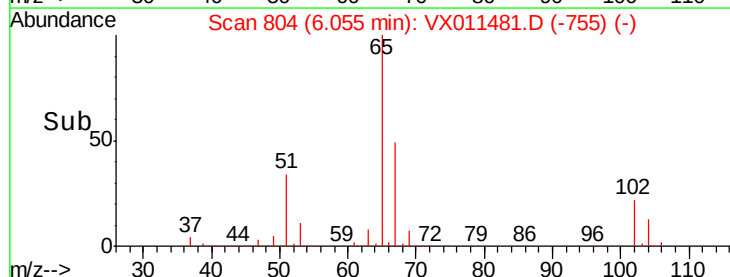
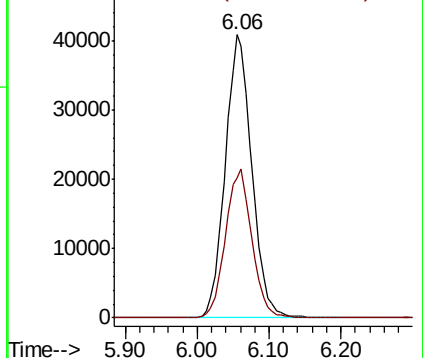
65 100

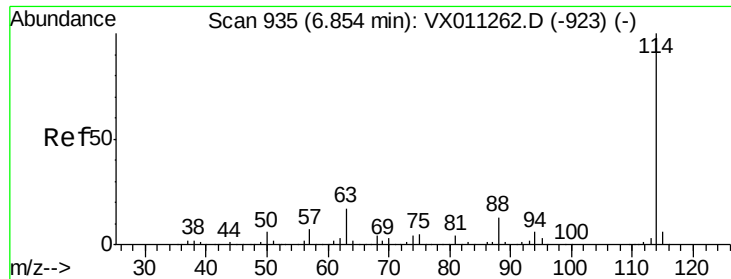
67 52.4 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

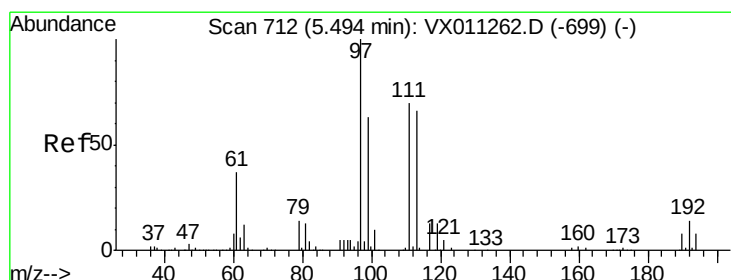
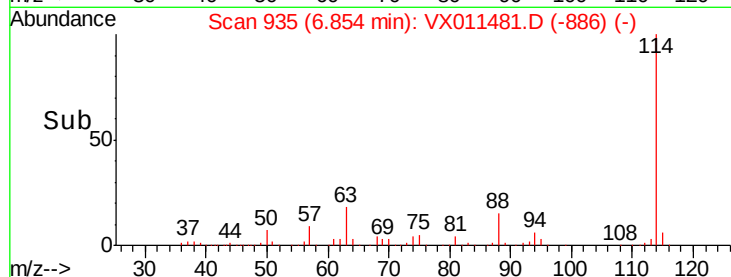
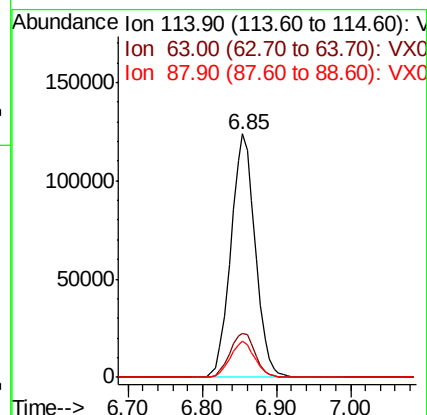
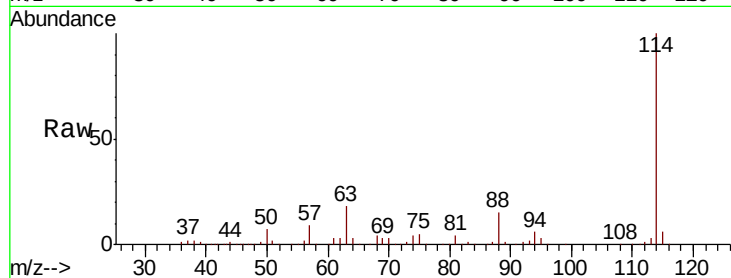




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011481.D
 Acq: 12 Aug 2019 14:19

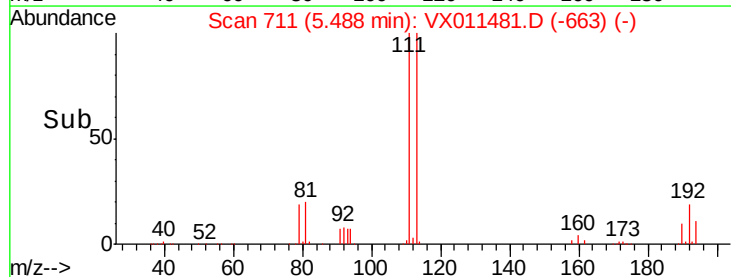
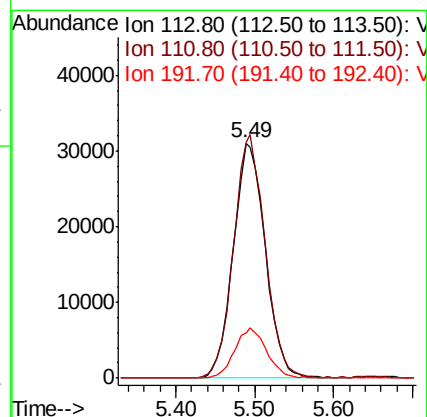
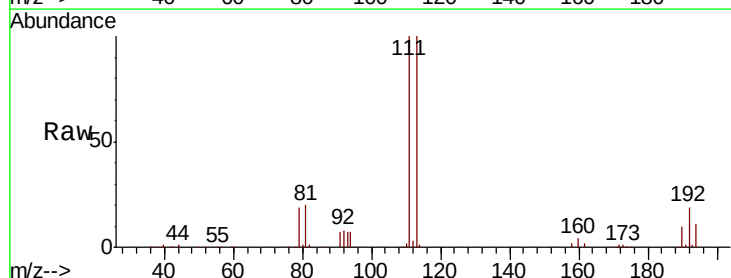
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-8 080819

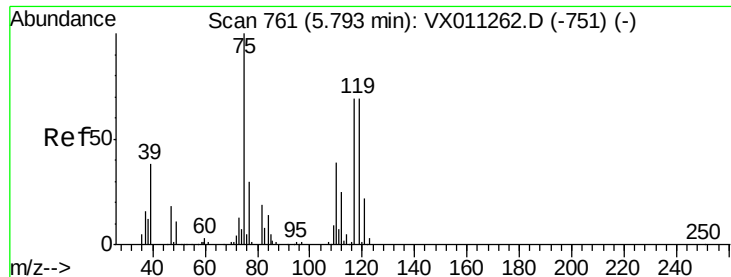
Tgt Ion:114 Resp: 283608
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 34.0
 88 14.9 0.0 26.4



#35
 Dibromofluoromethane
 Concen: 47.227 ug/l
 RT: 5.49 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VX011481.D
 Acq: 12 Aug 2019 14:19

Tgt Ion:113 Resp: 87446
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.9 122.9
 192 21.3 17.8 26.8

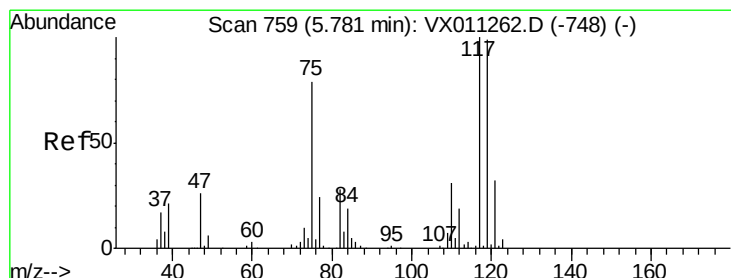
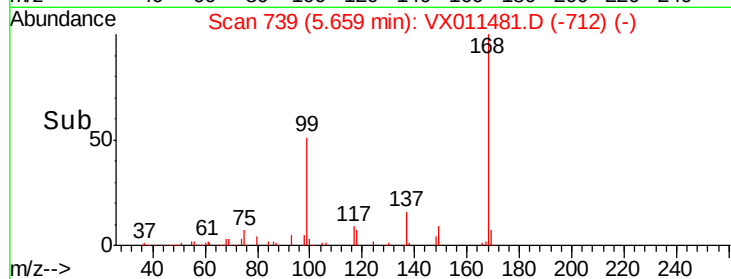
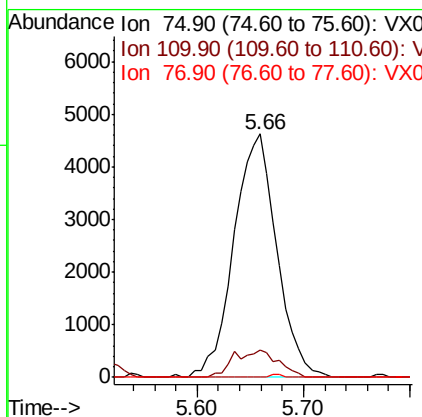
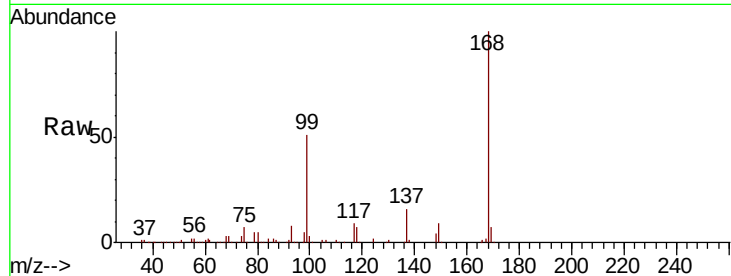




#36
 1,1-Dichloropropene
 Concen: 5.269 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011481.D
 Acq: 12 Aug 2019 14:19

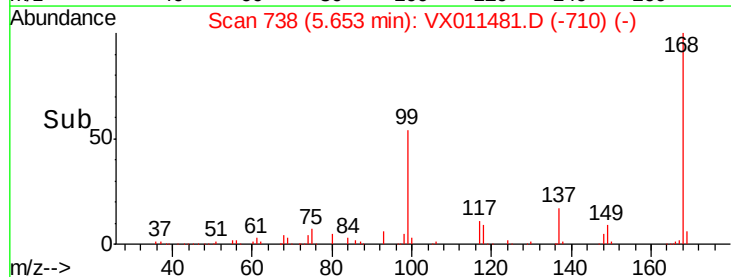
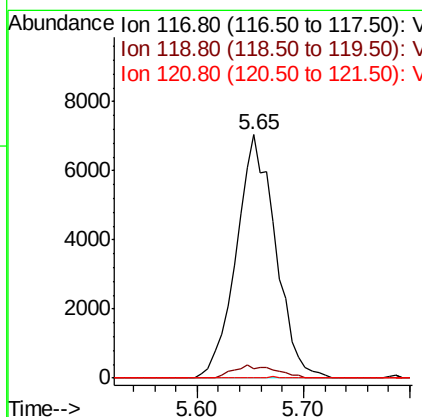
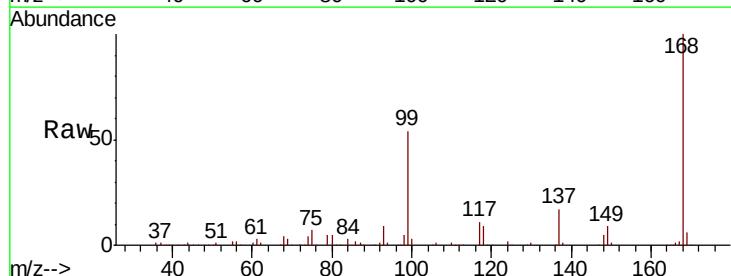
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-8 080819

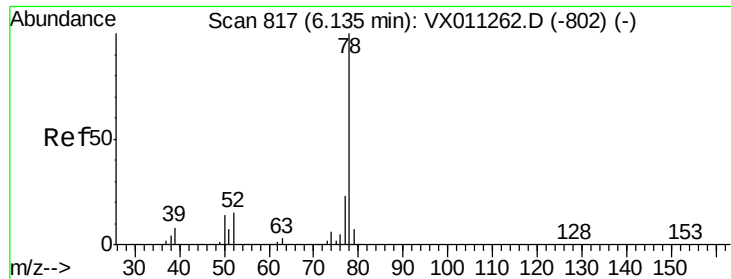
Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.5	20.0	59.9#
77	0.3	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.304 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.13 min
 Lab File: VX011481.D
 Acq: 12 Aug 2019 14:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	79.0	118.4#
121	0.0	25.9	38.9#





#40

Benzene

Concen: 0.204 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX011481.D

Acq: 12 Aug 2019 14:19

Instrument :

MSVOA_X

ClientSampled :

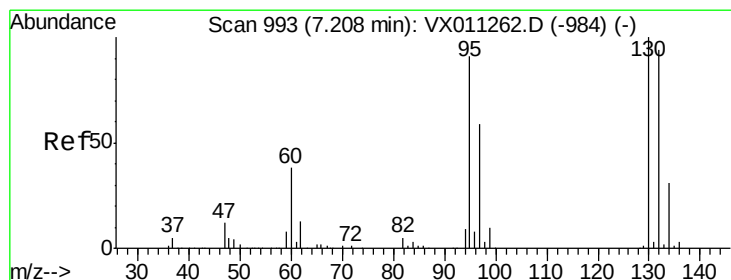
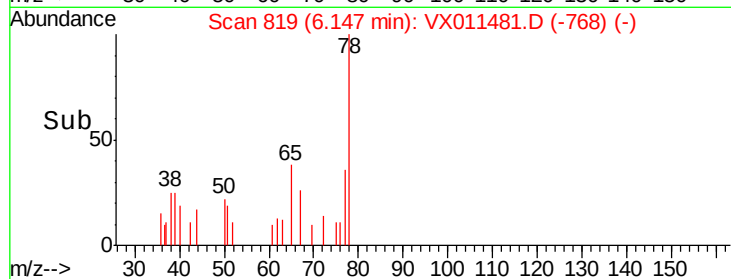
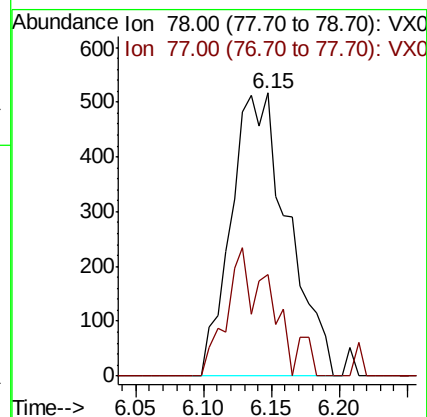
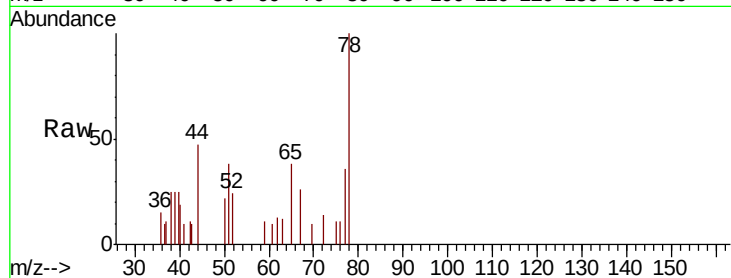
MW-8 080819

Tgt Ion: 78 Resp: 1504

Ion Ratio Lower Upper

78 100

77 36.0 18.2 27.2#



#44

Trichloroethene

Concen: 9.329 ug/l

RT: 7.21 min Scan# 993

Delta R.T. 0.00 min

Lab File: VX011481.D

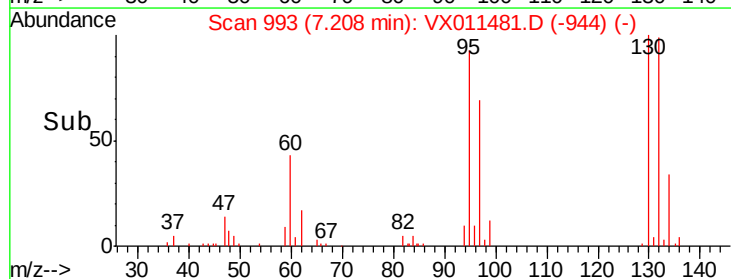
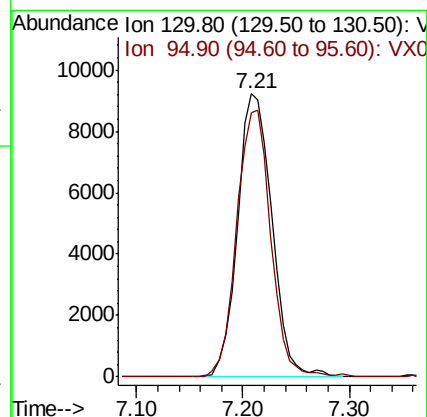
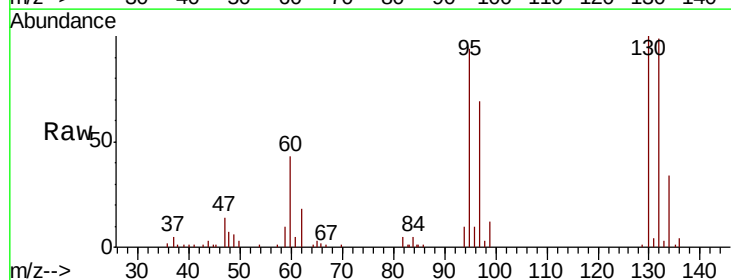
Acq: 12 Aug 2019 14:19

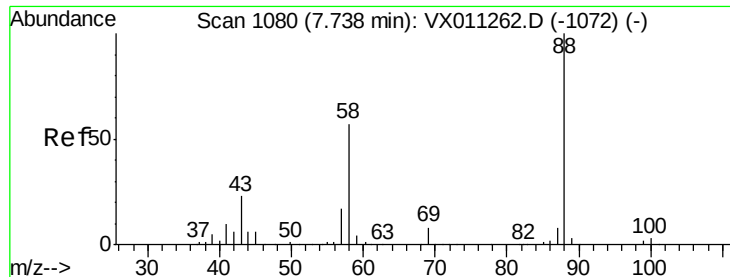
Tgt Ion: 130 Resp: 20864

Ion Ratio Lower Upper

130 100

95 93.5 0.0 182.6

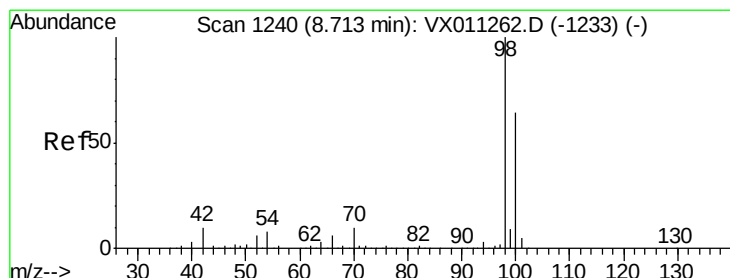
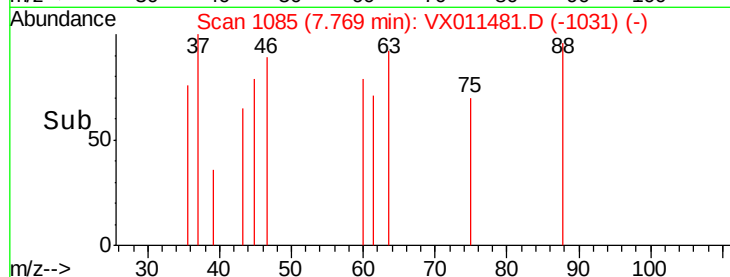
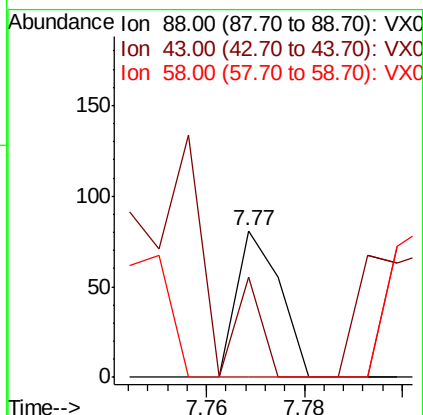
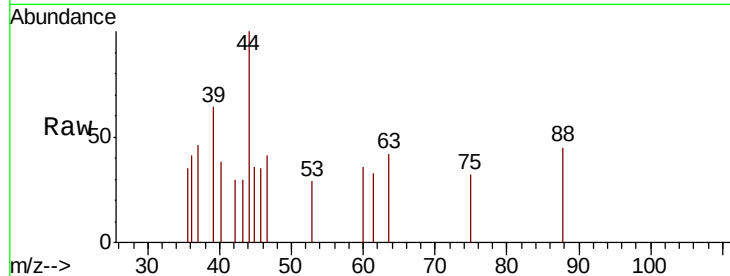




#49
1,4-Dioxane
Concen: 0.923 ug/l
RT: 7.77 min Scan# 1085
Delta R.T. 0.03 min
Lab File: VX011481.D
Acq: 12 Aug 2019 14:19

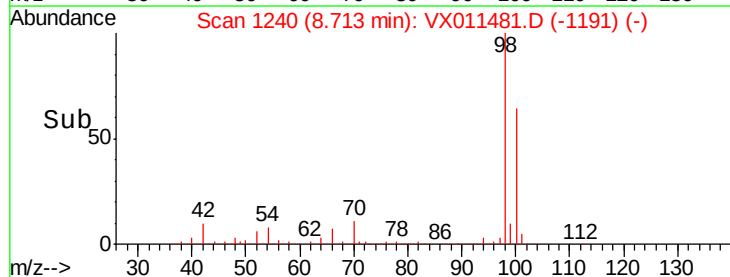
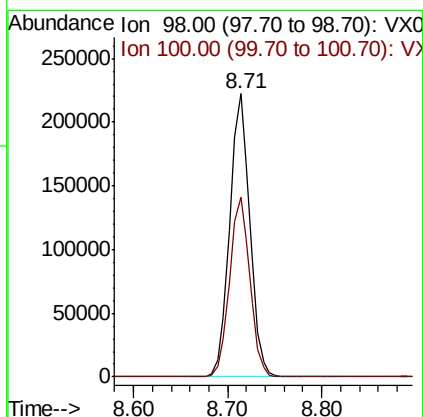
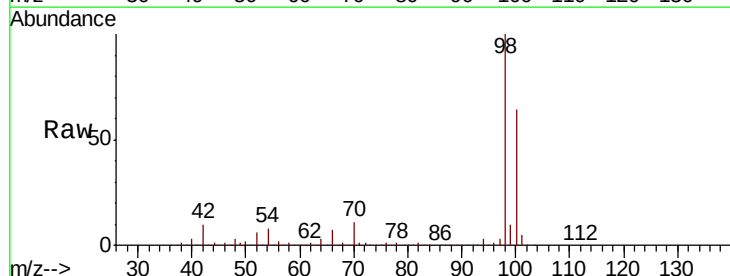
Instrument :
MSVOA_X
ClientSampleId :
MW-8 080819

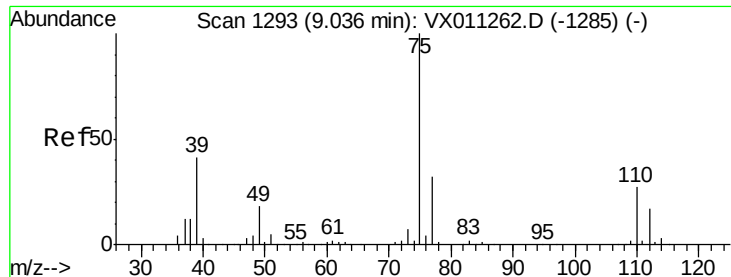
Tgt Ion: 88 Resp: 50
Ion Ratio Lower Upper
88 100
43 304.0 22.2 33.2#
58 0.0 47.8 71.8#



#50
Toluene-d8
Concen: 47.261 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011481.D
Acq: 12 Aug 2019 14:19

Tgt Ion: 98 Resp: 330318
Ion Ratio Lower Upper
98 100
100 63.9 51.7 77.5

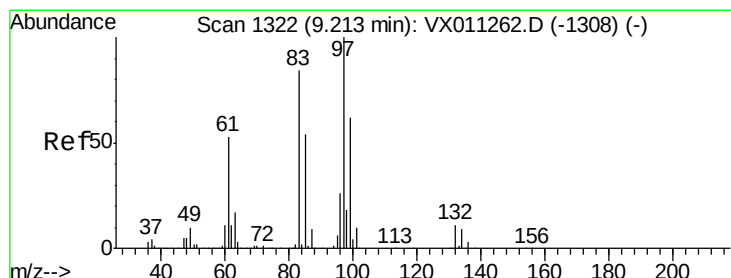
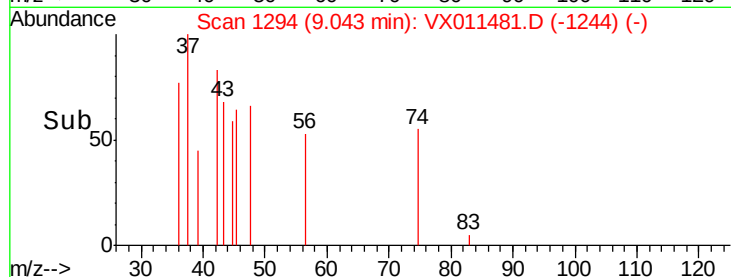
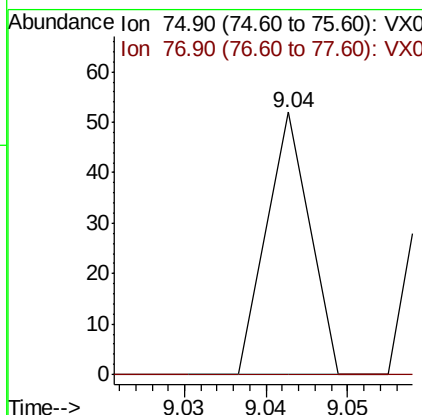
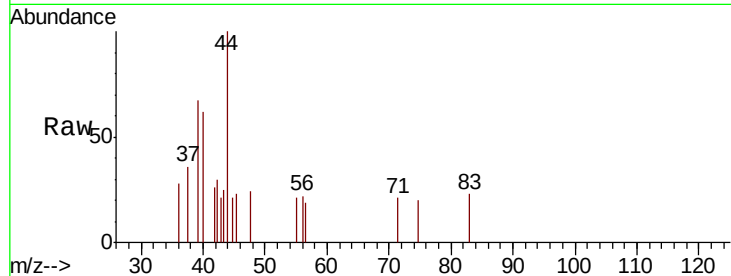




#53
 t-1,3-Dichloropropene
 Concen: 2.845 ug/l
 RT: 9.04 min Scan# 1294
 Delta R.T. 0.01 min
 Lab File: VX011481.D
 Acq: 12 Aug 2019 14:19

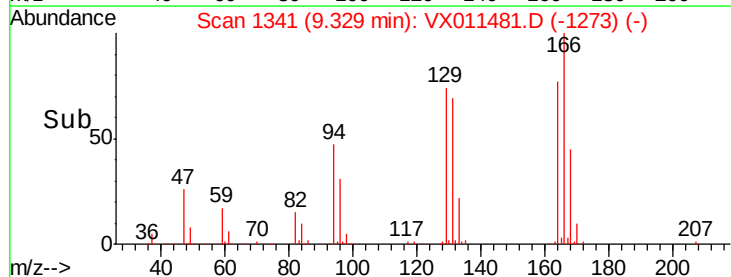
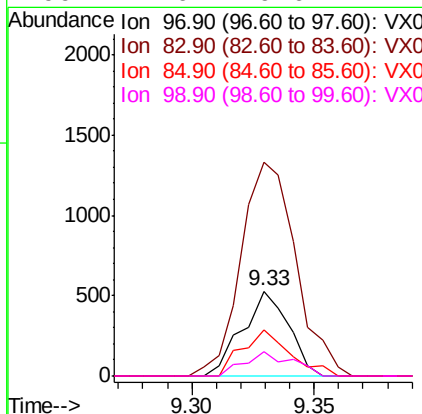
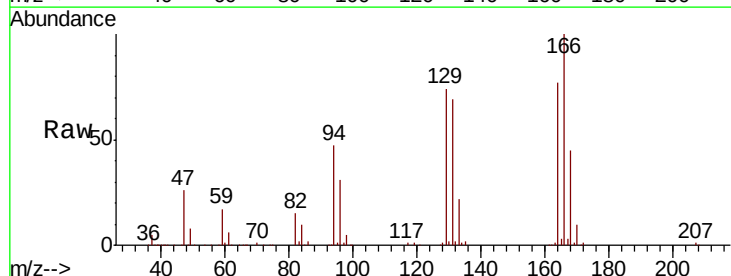
Instrument :
 MSVOA_X
 ClientSampled :
 MW-8 080819

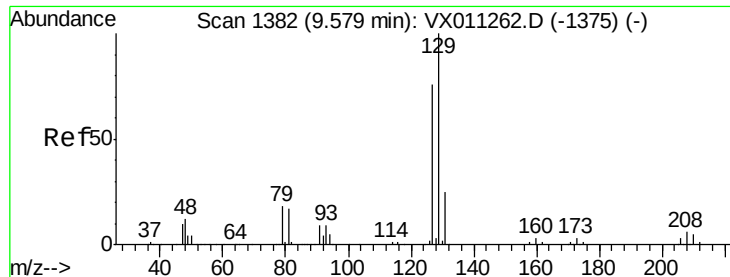
Tgt Ion: 75 Resp: 19
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#55
 1,1,2-Trichloroethane
 Concen: 0.346 ug/l
 RT: 9.33 min Scan# 1341
 Delta R.T. 0.12 min
 Lab File: VX011481.D
 Acq: 12 Aug 2019 14:19

Tgt Ion: 97 Resp: 695
 Ion Ratio Lower Upper
 97 100
 83 251.9 67.6 101.4#
 85 54.0 43.4 65.0
 99 42.6 49.6 74.4#

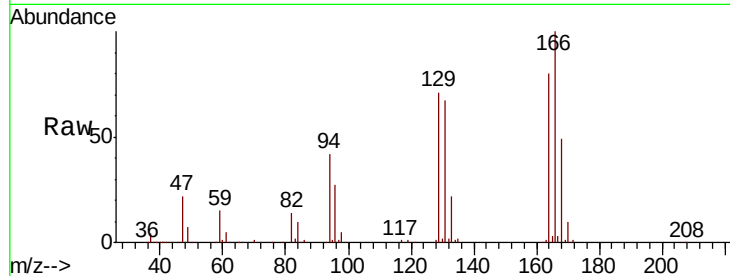




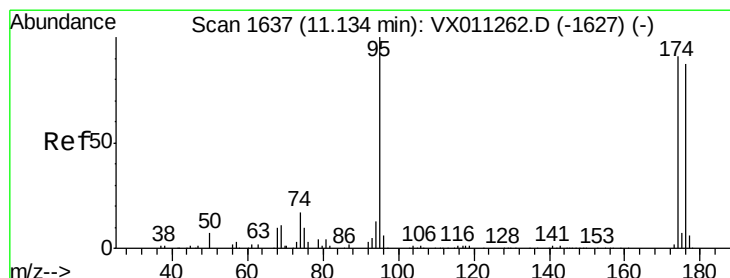
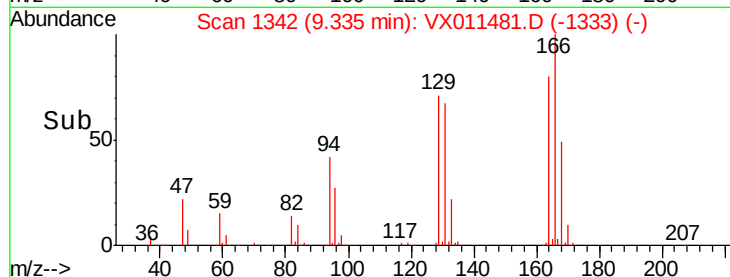
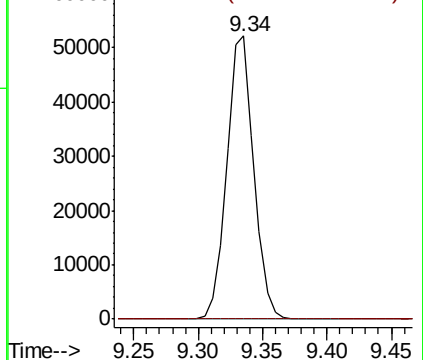
#60
 Dibromochloromethane
 Concen: 37.267 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX011481.D
 Acq: 12 Aug 2019 14:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-8 080819

Tgt Ion: 129 Resp: 76639
 Ion Ratio Lower Upper
 129 100
 127 0.1 39.2 117.6#

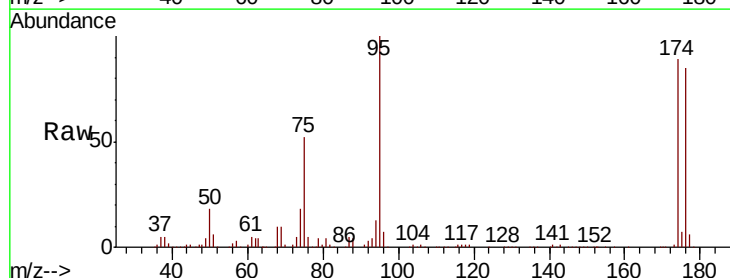


Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V

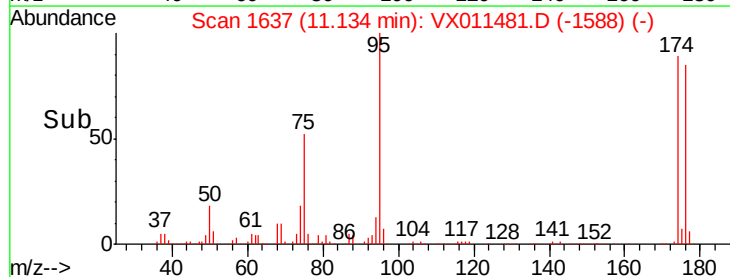
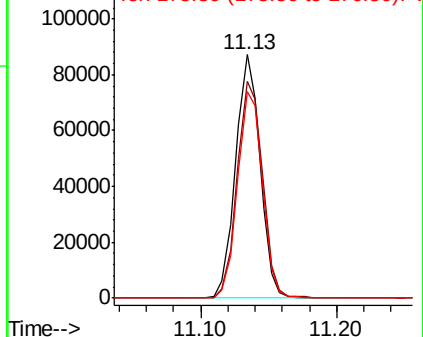


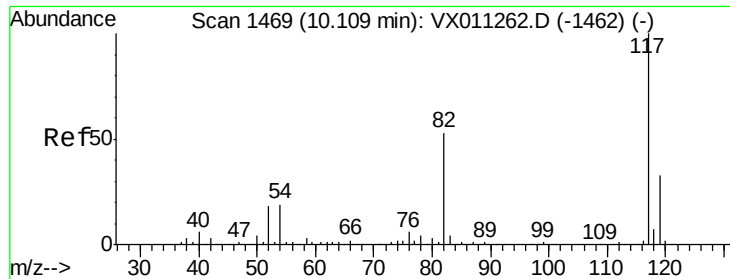
#62
 4-Bromofluorobenzene
 Concen: 43.691 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX011481.D
 Acq: 12 Aug 2019 14:19

Tgt Ion: 95 Resp: 109025
 Ion Ratio Lower Upper
 95 100
 174 92.5 0.0 191.2
 176 86.6 0.0 184.8



Abundance Ion 94.90 (94.60 to 95.60): VX0
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V

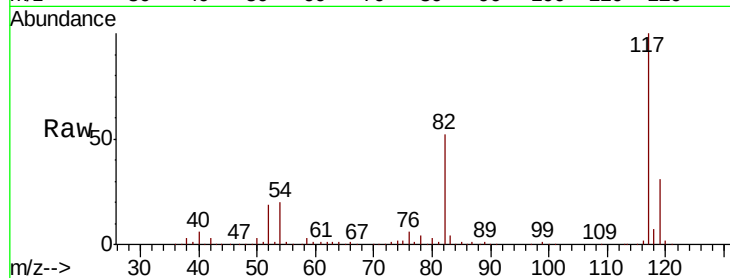




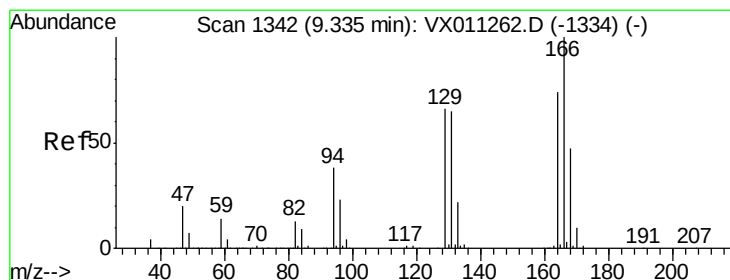
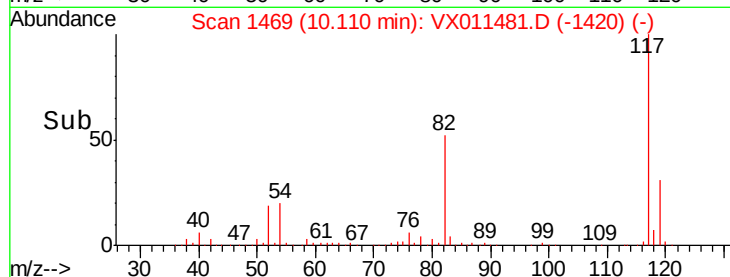
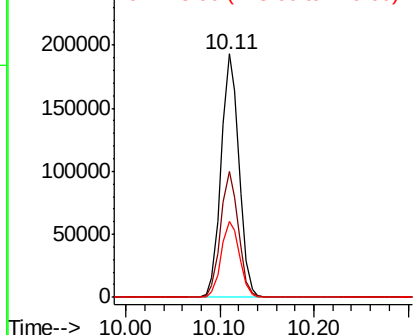
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011481.D
Acq: 12 Aug 2019 14:19

Instrument :
MSVOA_X
ClientSampled :
MW-8 080819

Tgt Ion:117 Resp: 254960
Ion Ratio Lower Upper
117 100
82 51.7 42.2 63.2
119 31.4 26.6 39.8



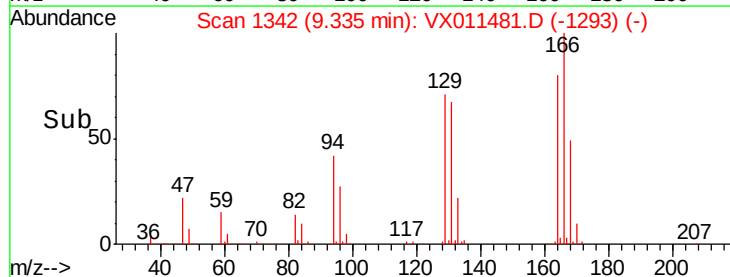
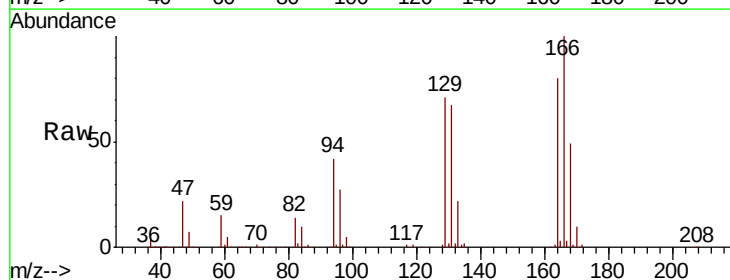
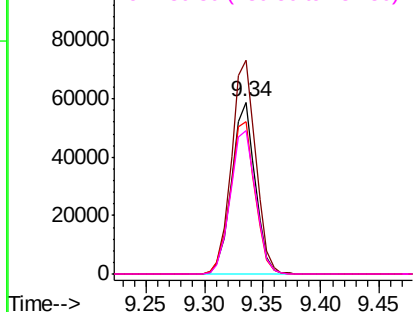
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

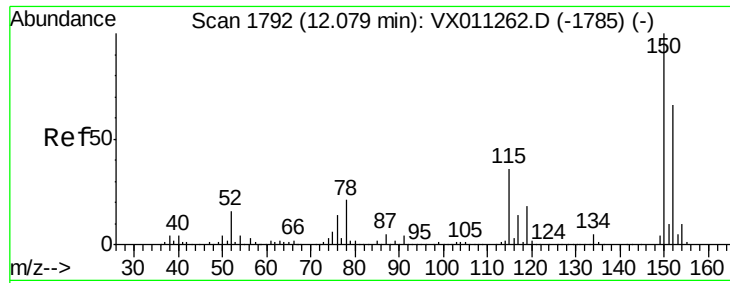


#64
Tetrachloroethene
Concen: 38.224 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX011481.D
Acq: 12 Aug 2019 14:19

Tgt Ion:164 Resp: 82763
Ion Ratio Lower Upper
164 100
166 124.3 107.5 161.3
129 88.6 71.0 106.4
131 83.4 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: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX011481.D

Acq: 12 Aug 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

MW-8 080819

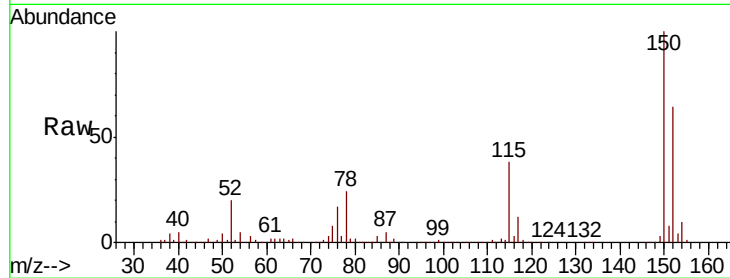
Tgt Ion:152 Resp: 115502

Ion Ratio Lower Upper

152 100

115 55.6 40.0 119.9

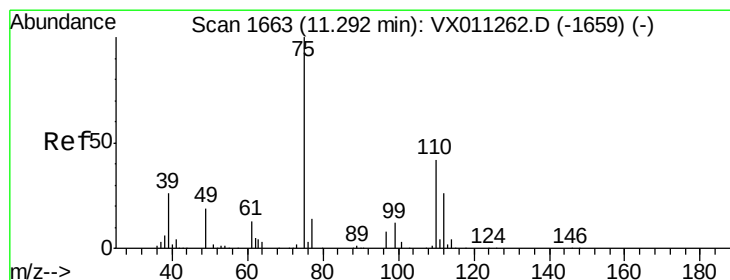
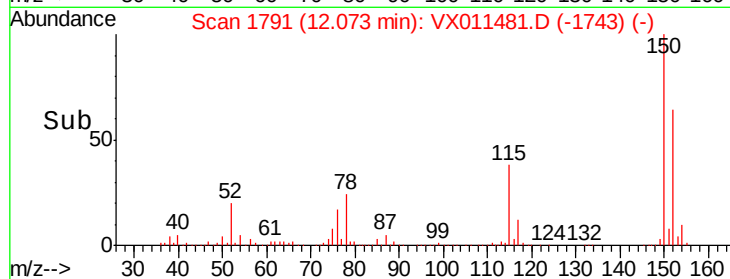
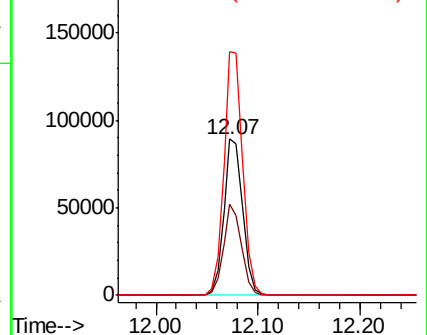
150 155.4 0.0 350.4



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: 26.773 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011481.D

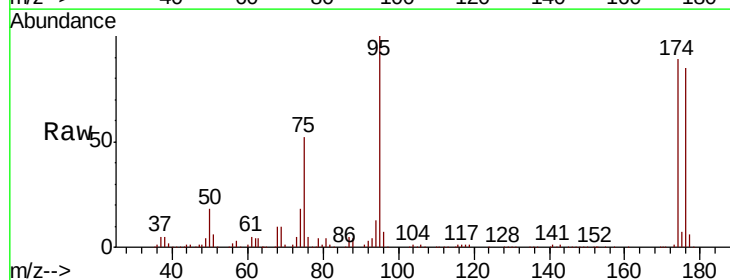
Acq: 12 Aug 2019 14:19

Tgt Ion: 75 Resp: 56316

Ion Ratio Lower Upper

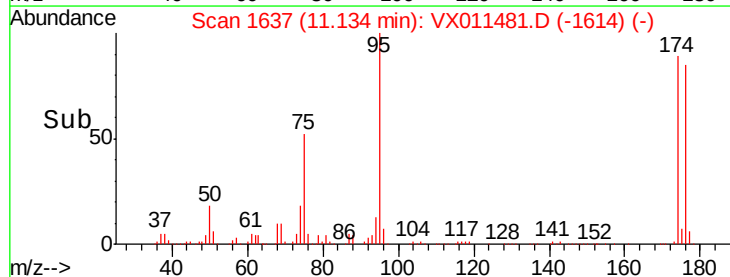
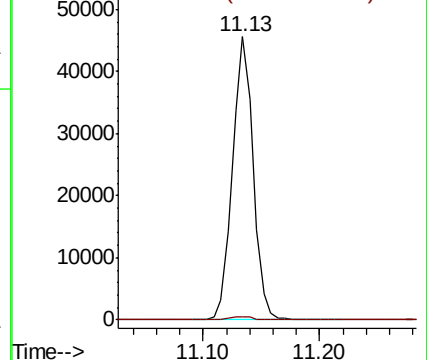
75 100

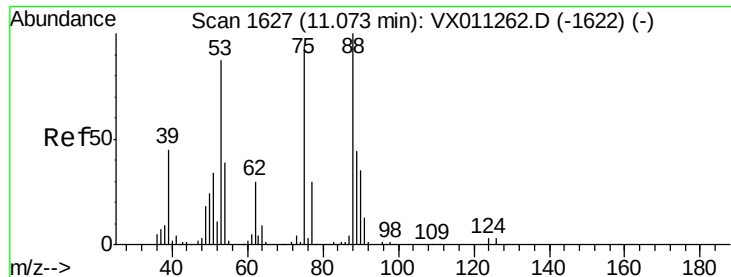
77 1.3 21.1 63.4#



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: 69.546 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011481.D

Acq: 12 Aug 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

MW-8 080819

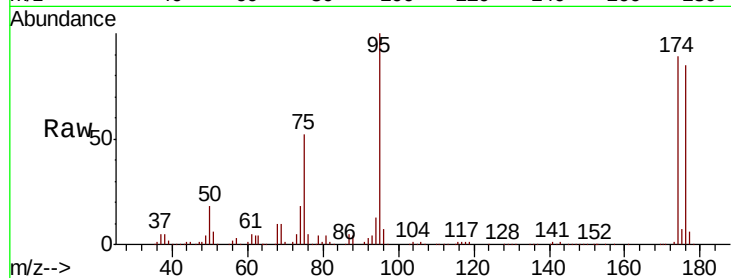
Tgt Ion: 75 Resp: 56316

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.1 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

