

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081319\
 Data File : VX011548.D
 Acq On : 13 Aug 2019 19:58
 Operator : JC/SP
 Sample : K4266-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 R1-R2-C1-(0)

Quant Time: Aug 14 01:11:02 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

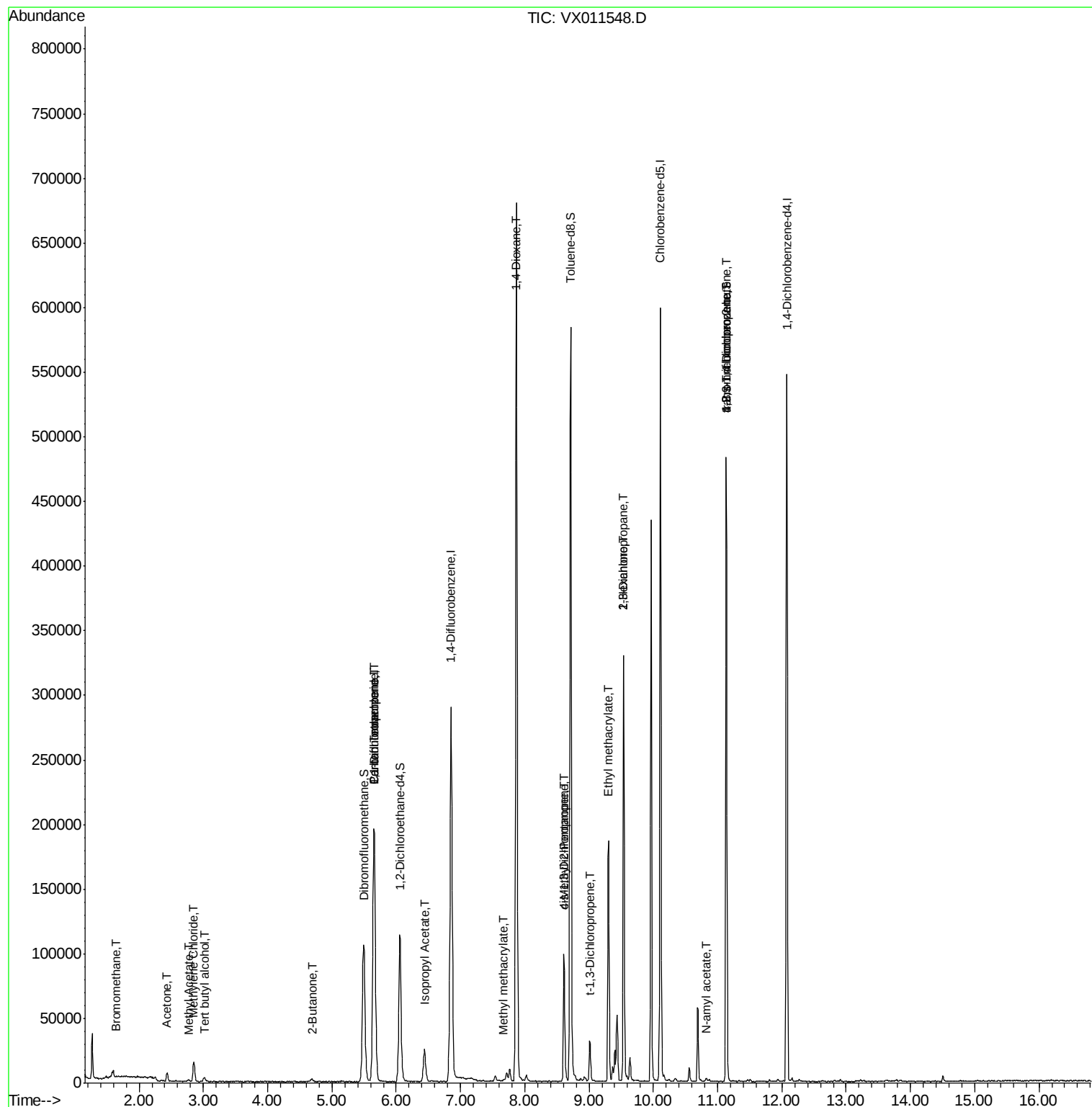
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	192003	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	292288	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	269269	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	118629	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	108965	56.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.70%	
35) Dibromofluoromethane	5.49	113	89730	47.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.04%	
50) Toluene-d8	8.71	98	348338	48.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.72%	
62) 4-Bromofluorobenzene	11.13	95	117701	45.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.54%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	362	0.277	ug/l #	59
6) Chloroethane	1.73	64	140	Below Cal	#	1
11) Tert butyl alcohol	3.01	59	1901	4.953	ug/l #	79
13) Acrolein	2.29	56	76	Below Cal	#	15
16) Acetone	2.43	43	7658	8.321	ug/l	99
18) Methyl Acetate	2.78	43	2023	0.962	ug/l	99
20) Methylene Chloride	2.85	84	7338	3.641	ug/l	98
25) 2-Butanone	4.68	43	1182	0.903	ug/l #	79
36) 1,1-Dichloropropene	5.66	75	13521	5.298	ug/l #	50
38) Carbon Tetrachloride	5.65	117	18399	7.166	ug/l #	14
43) Isopropyl Acetate	6.44	43	32858	8.029	ug/l	99
48) Methyl methacrylate	7.67	41	2484	1.290	ug/l #	10
49) 1,4-Dioxane	7.87	88	86	1.540	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	33587	12.717	ug/l #	50
53) t-1,3-Dichloropropene	9.01	75	112	2.876	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	15227	5.348	ug/l #	71
56) Ethyl methacrylate	9.30	69	759	0.257	ug/l #	1
57) 1,3-Dichloropropane	9.54	76	3122	0.954	ug/l #	42
59) 2-Hexanone	9.54	43	39152	19.138	ug/l #	51
74) N-amyl acetate	10.82	43	1709	0.583	ug/l #	48
76) 1,2,3-Trichloropropane	11.13	75	59911	27.732	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	59911	71.873	ug/l #	10

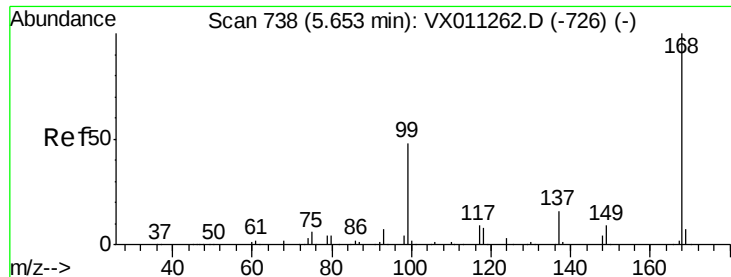
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampled :
R1-R2-C1-(0)

Quant Time: Aug 14 01:11:02 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: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011548.D

Acq: 13 Aug 2019 19:58

Instrument :

MSVOA_X

ClientSampleId :

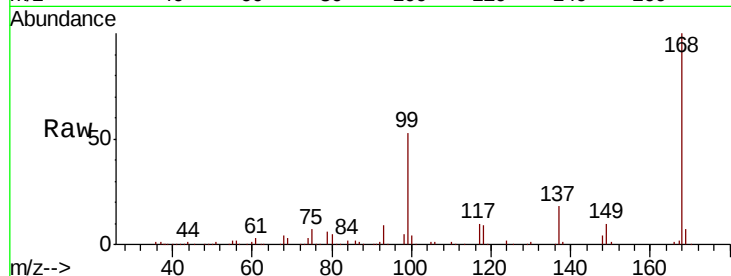
R1-R2-C1(0)

Tgt Ion:168 Resp: 192003

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

5.65

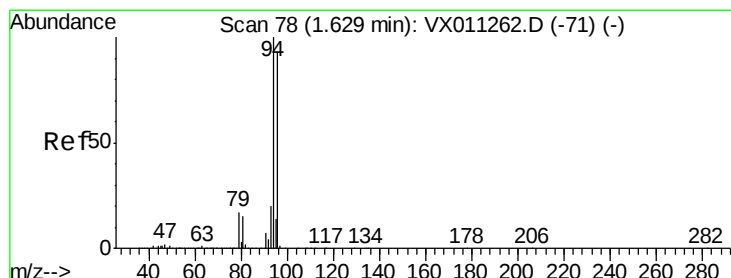
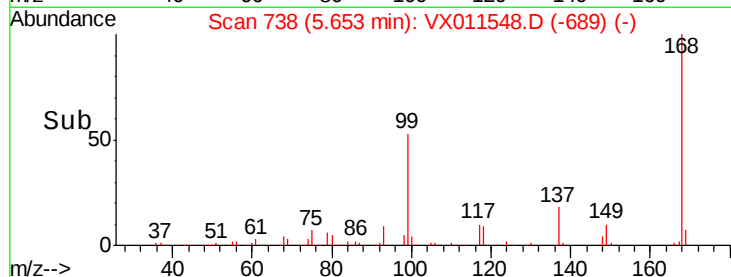
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.277 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011548.D

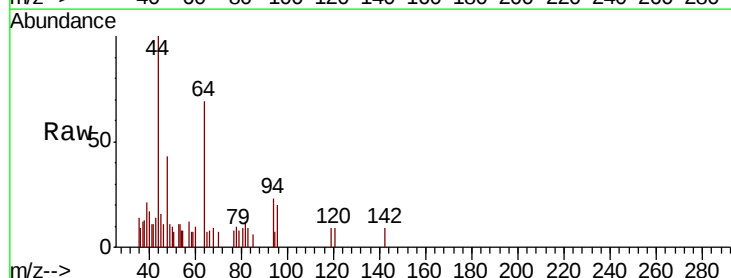
Acq: 13 Aug 2019 19:58

Tgt Ion: 94 Resp: 362

Ion Ratio Lower Upper

94 100

96 54.2 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

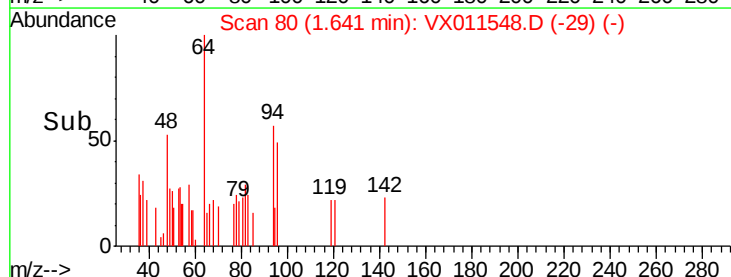
150

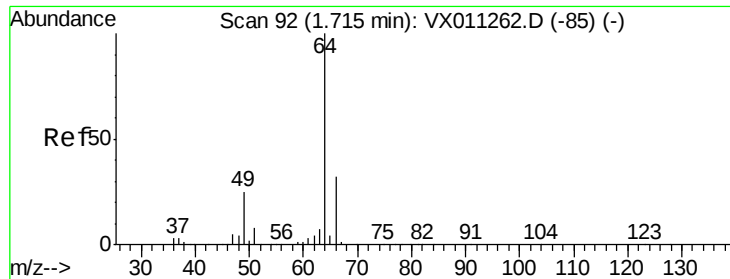
100

50

0

Time--> 1.60 1.62 1.64 1.66 1.68

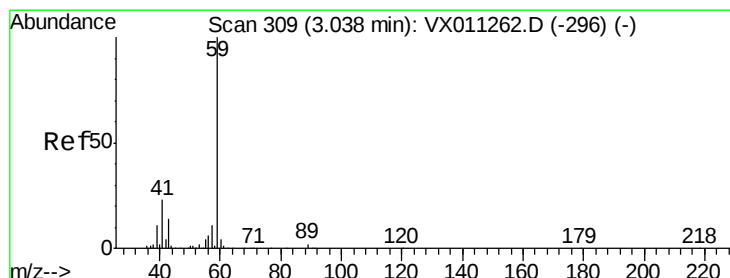
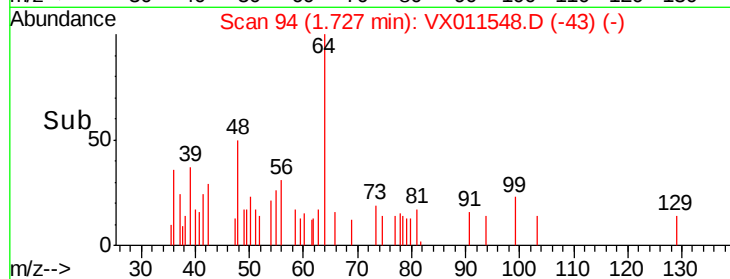
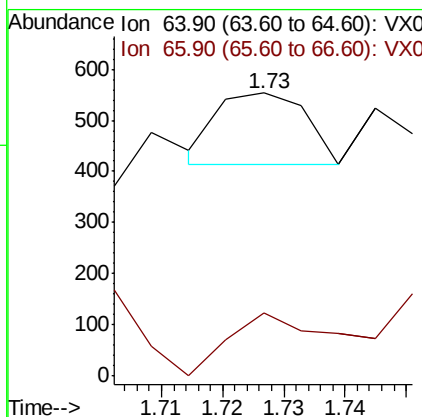
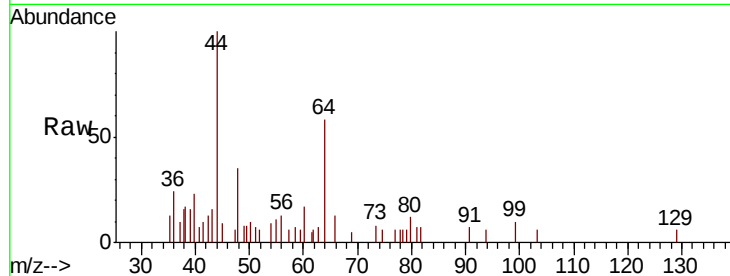




#6
Chloroethane
Concen: Below Cal
RT: 1.73 min Scan# 94
Delta R.T. 0.01 min
Lab File: VX011548.D
Acq: 13 Aug 2019 19:58

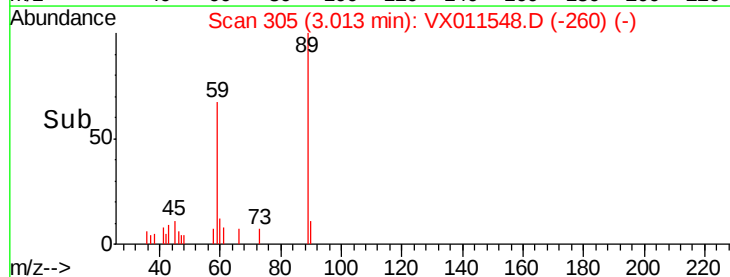
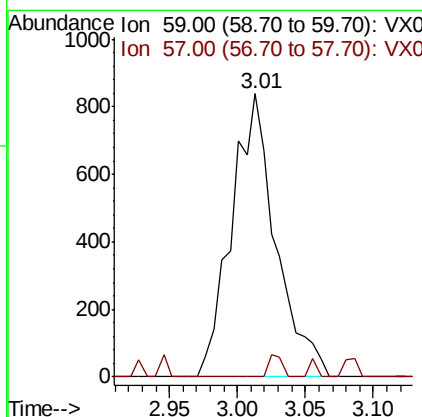
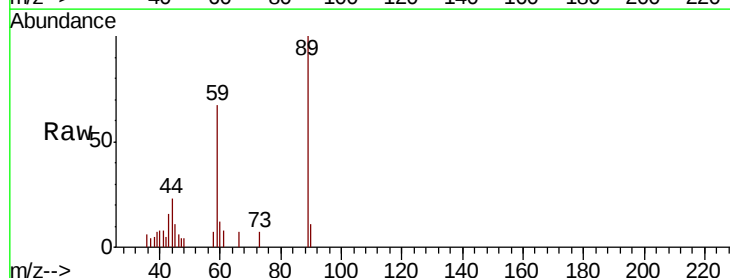
Instrument :
MSVOA_X
ClientSampled :
R1-R2-C1-(0)

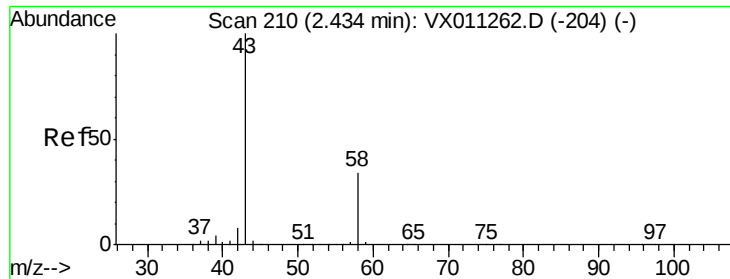
Tgt Ion: 64 Resp: 140
Ion Ratio Lower Upper
64 100
66 88.5 25.1 37.7#



#11
Tert butyl alcohol
Concen: 4.953 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011548.D
Acq: 13 Aug 2019 19:58

Tgt Ion: 59 Resp: 1901
Ion Ratio Lower Upper
59 100
57 2.4 8.3 12.5#





#16

Acetone

Concen: 8.321 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011548.D

Acq: 13 Aug 2019 19:58

Instrument :

MSVOA_X

ClientSampleId :

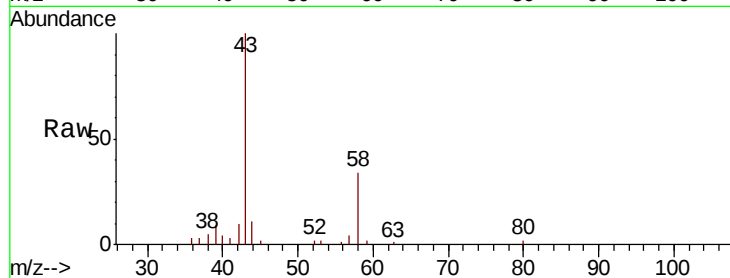
R1-R2-C1(0)

Tgt Ion: 43 Resp: 7658

Ion Ratio Lower Upper

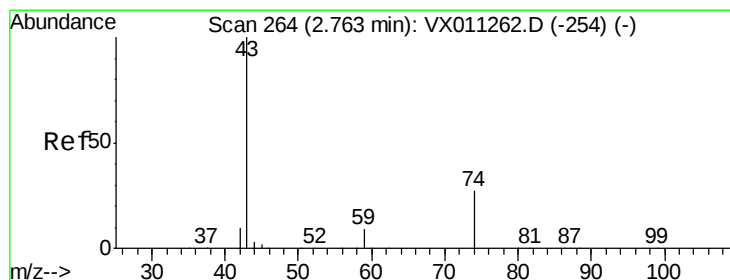
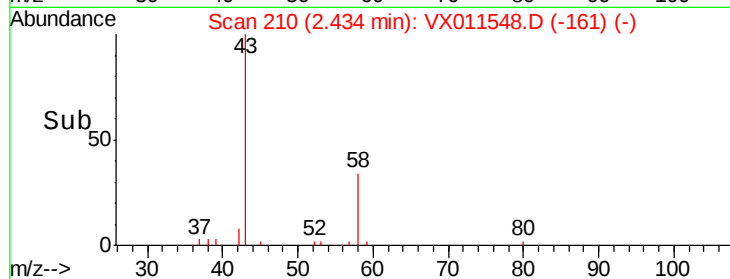
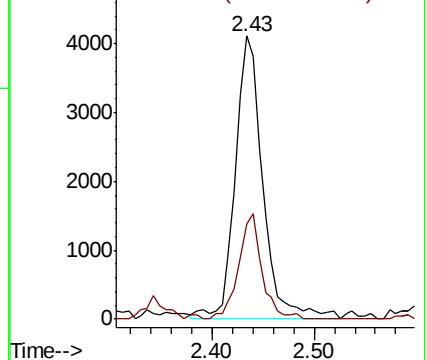
43 100

58 33.7 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.962 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX011548.D

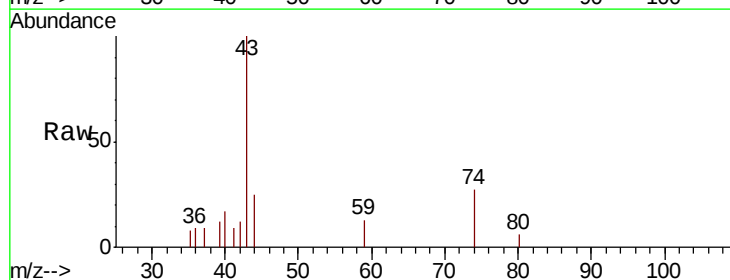
Acq: 13 Aug 2019 19:58

Tgt Ion: 43 Resp: 2023

Ion Ratio Lower Upper

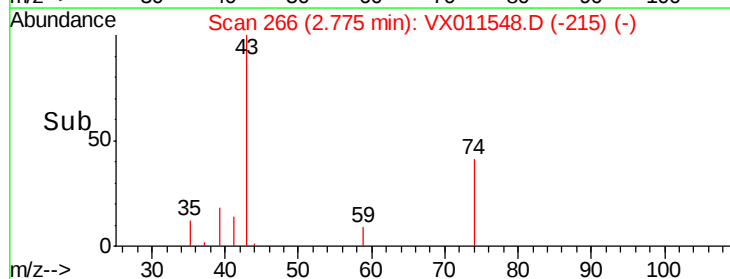
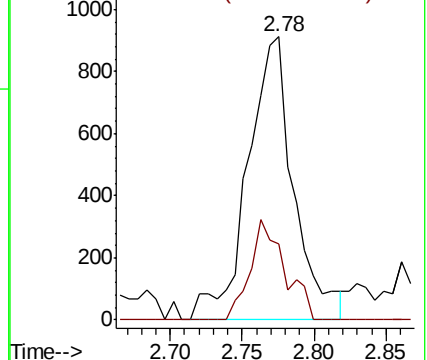
43 100

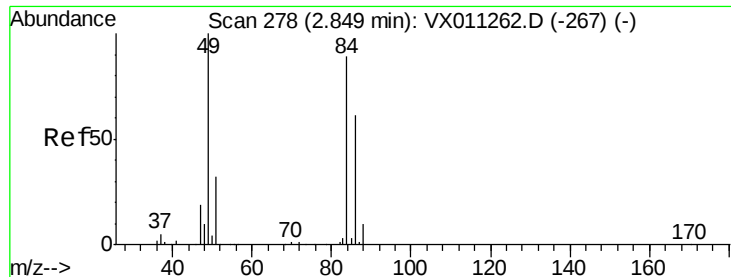
74 26.8 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: 3.641 ug/l

RT: 2.85 min Scan# 278

Delta R.T. -0.00 min

Lab File: VX011548.D

Acq: 13 Aug 2019 19:58

Instrument :

MSVOA_X

ClientSampleId :

R1-R2-C1(0)

Tgt Ion: 84 Resp: 7338

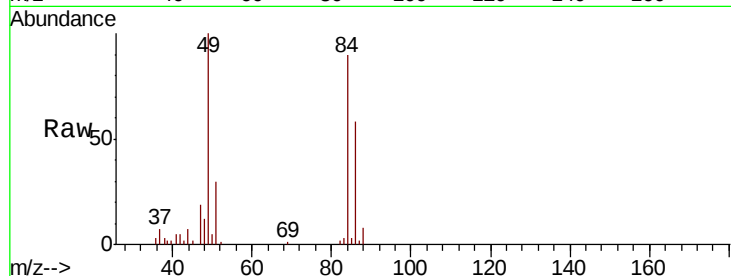
Ion Ratio Lower Upper

84 100

49 111.7 89.3 133.9

51 32.0 28.3 42.5

86 64.4 54.5 81.7

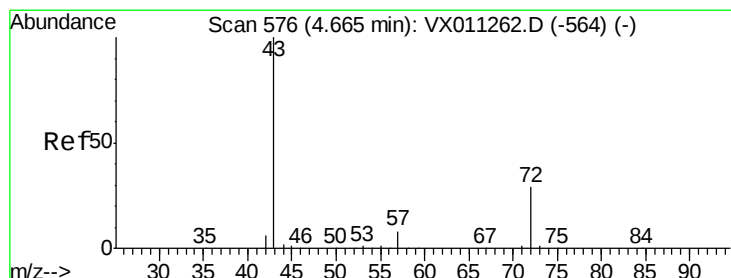
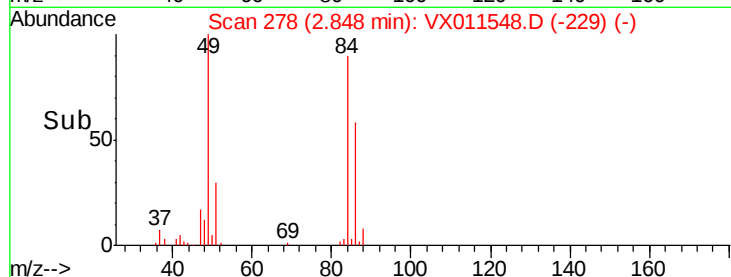
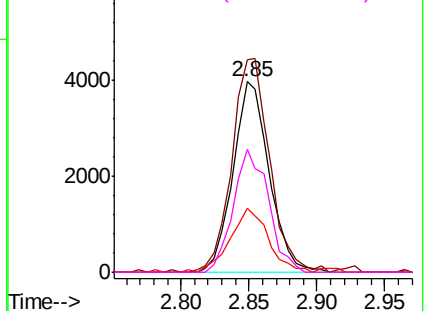


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.903 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011548.D

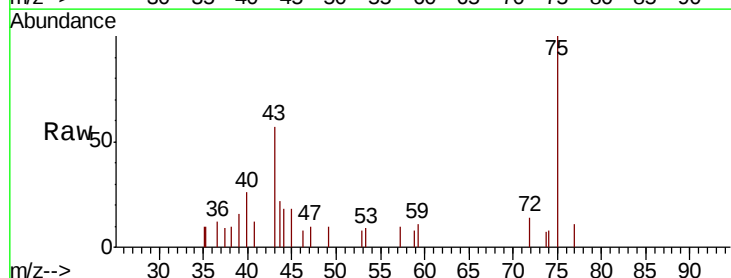
Acq: 13 Aug 2019 19:58

Tgt Ion: 43 Resp: 1182

Ion Ratio Lower Upper

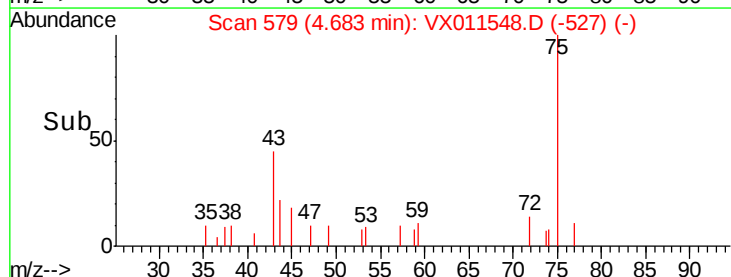
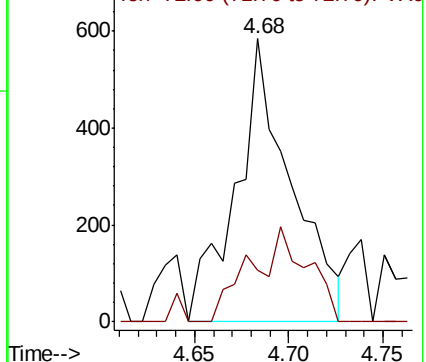
43 100

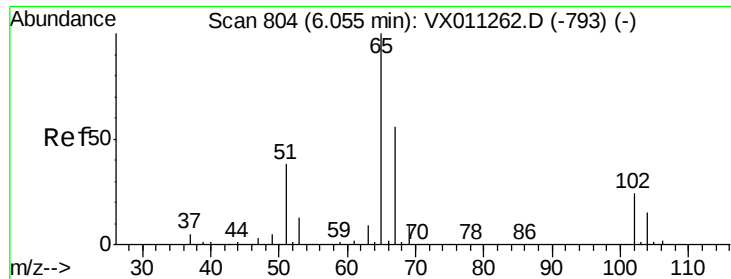
72 18.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

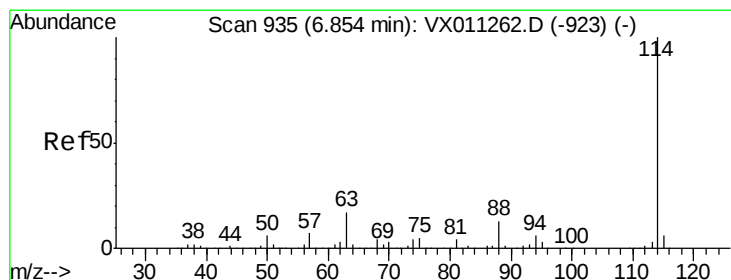
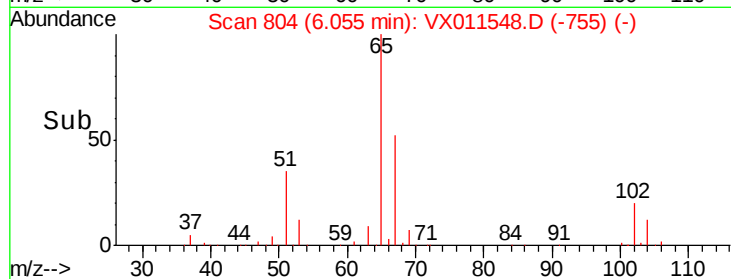
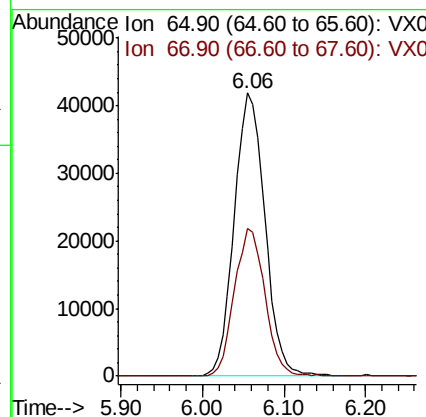
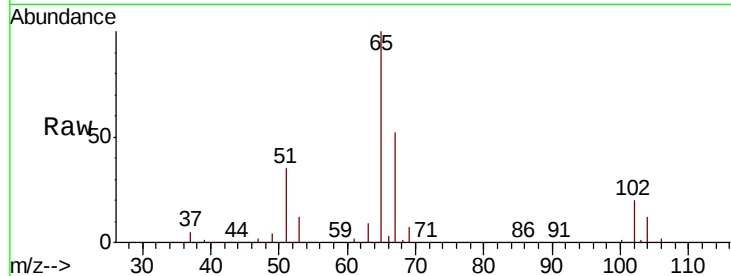




#33
 1,2-Dichloroethane-d4
 Concen: 56.354 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. -0.00 min
 Lab File: VX011548.D
 Acq: 13 Aug 2019 19:58

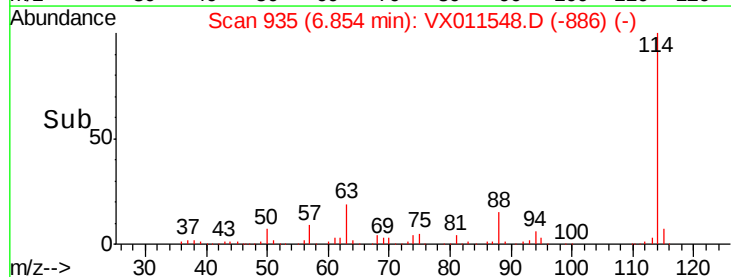
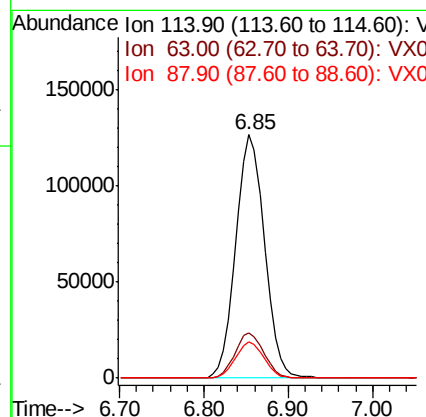
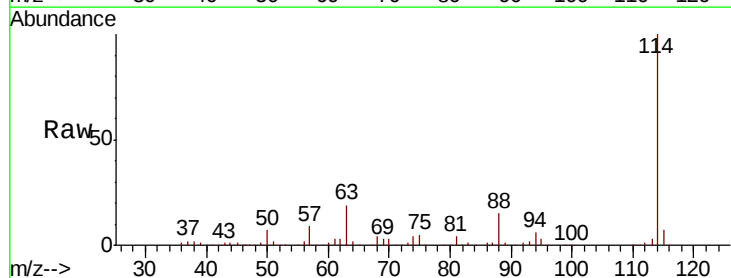
Instrument :
 MSVOA_X
 ClientSampleId :
 R1-R2-C1-(0)

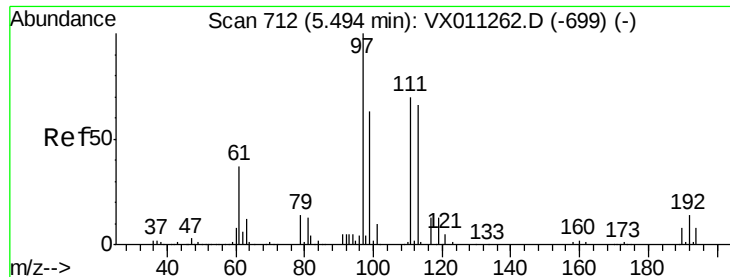
Tgt Ion: 65 Resp: 108965
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011548.D
 Acq: 13 Aug 2019 19:58

Tgt Ion: 114 Resp: 292288
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 34.0
 88 14.9 0.0 26.4

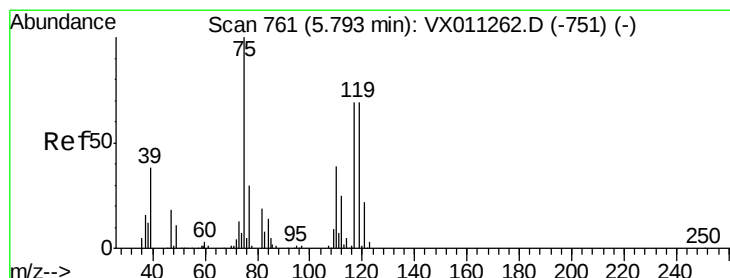
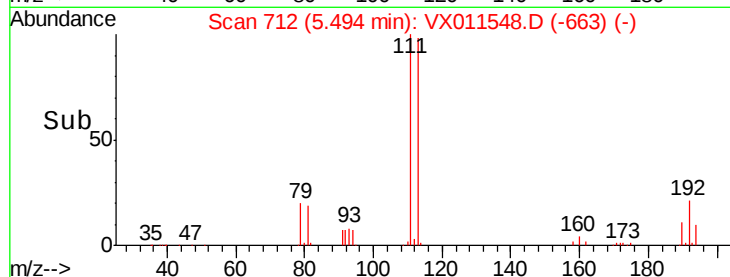
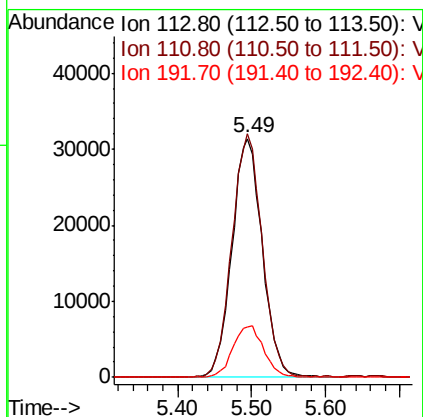
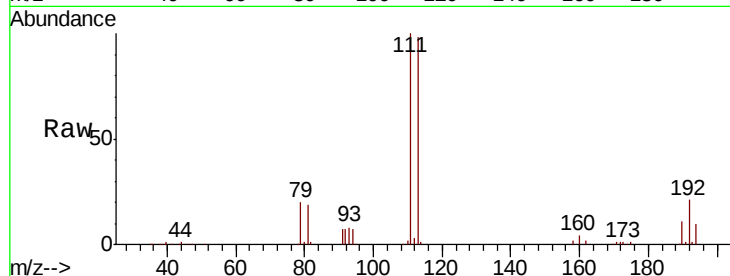




#35
 Dibromofluoromethane
 Concen: 47.021 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX011548.D
 Acq: 13 Aug 2019 19:58

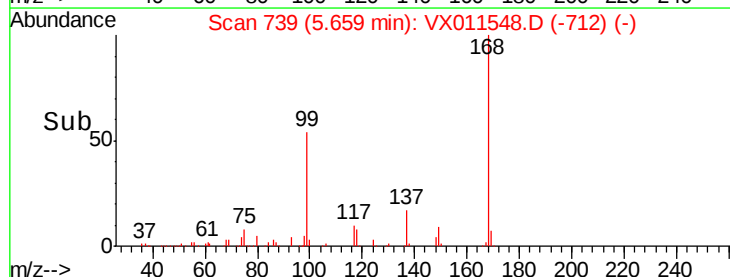
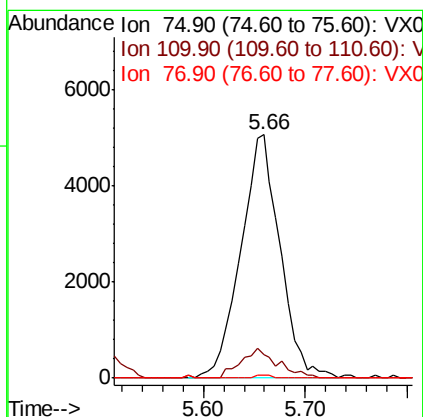
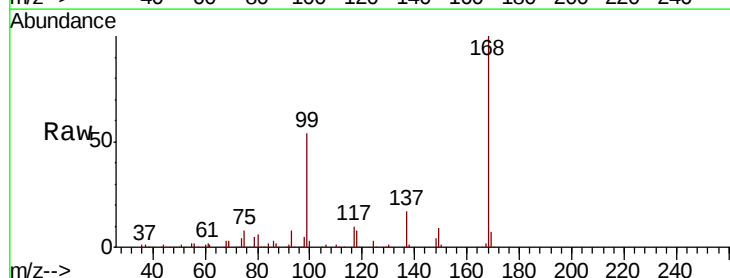
Instrument :
 MSVOA_X
 ClientSampleId :
 R1-R2-C1-(0)

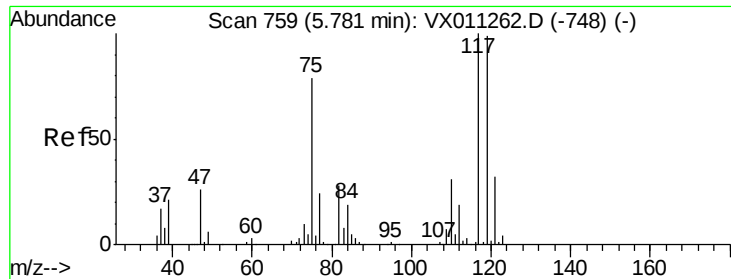
Tgt Ion:113 Resp: 89730
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.9 122.9
 192 21.8 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 5.298 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011548.D
 Acq: 13 Aug 2019 19:58

Tgt Ion: 75 Resp: 13521
 Ion Ratio Lower Upper
 75 100
 110 11.6 20.0 59.9#
 77 0.5 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 7.166 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011548.D

Acq: 13 Aug 2019 19:58

Instrument :

MSVOA_X

ClientSampleId :

R1-R2-C1-(0)

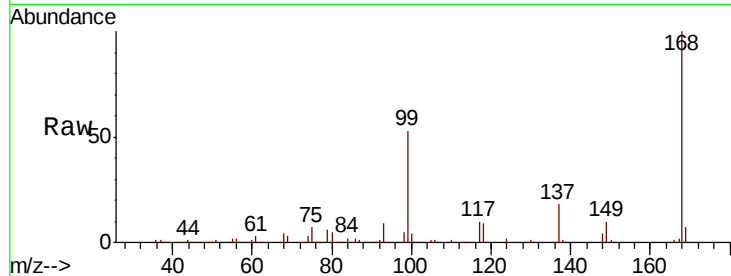
Tgt Ion:117 Resp: 18399

Ion Ratio Lower Upper

117 100

119 4.6 79.0 118.4#

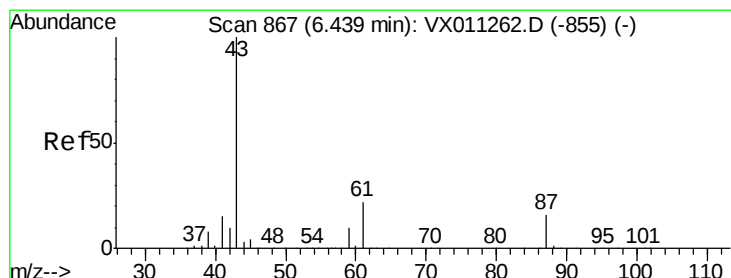
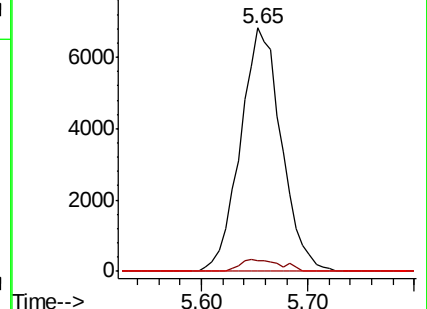
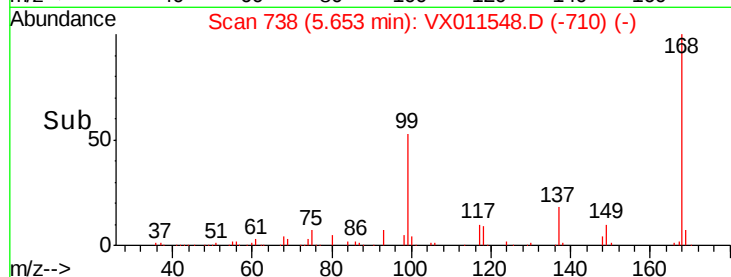
121 0.0 25.9 38.9#



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



#43

Isopropyl Acetate

Concen: 8.029 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011548.D

Acq: 13 Aug 2019 19:58

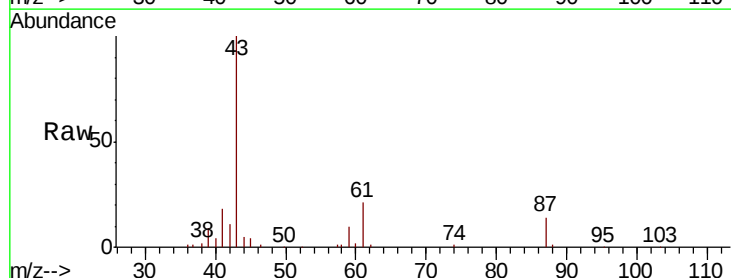
Tgt Ion: 43 Resp: 32858

Ion Ratio Lower Upper

43 100

61 20.6 16.5 24.7

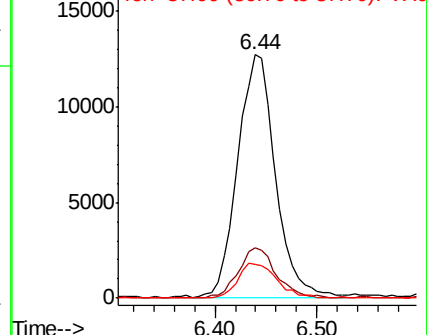
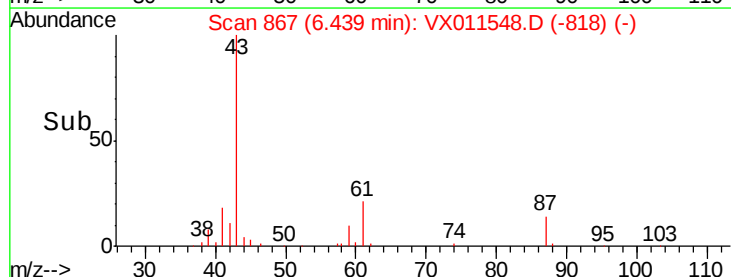
87 14.6 12.1 18.1

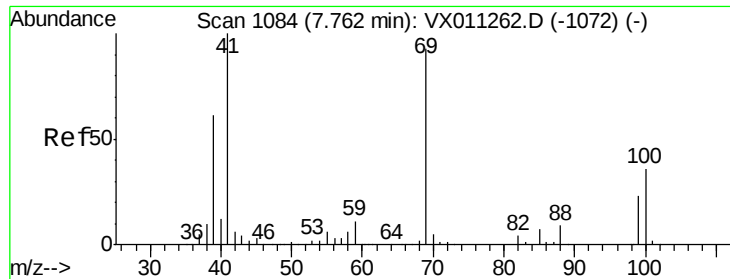


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 1.290 ug/l

RT: 7.67 min Scan# 1069

Delta R.T. -0.09 min

Lab File: VX011548.D

Acq: 13 Aug 2019 19:58

Instrument :

MSVOA_X

ClientSampleId :

R1-R2-C1(0)

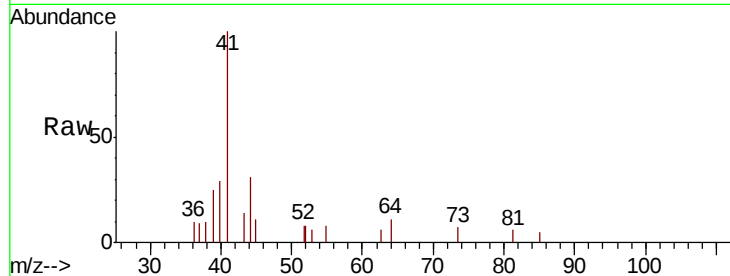
Tgt Ion: 41 Resp: 2484

Ion Ratio Lower Upper

41 100

69 0.0 74.5 111.7#

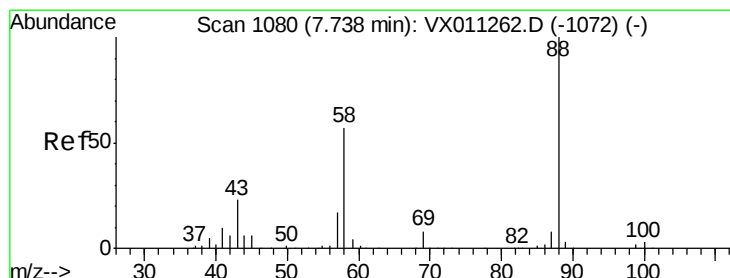
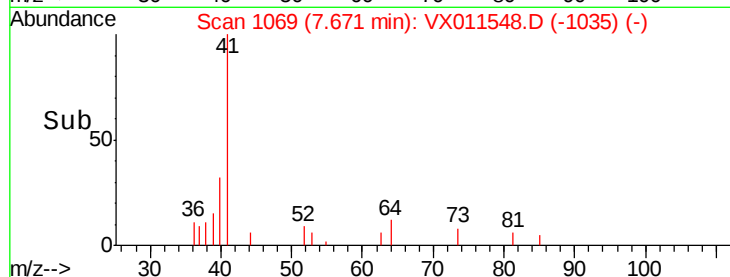
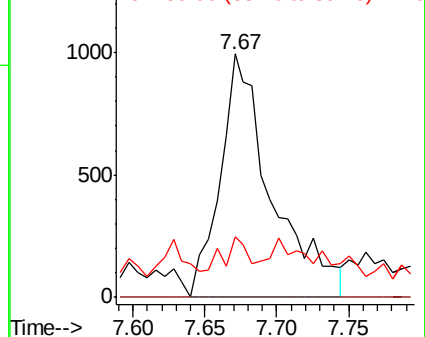
39 0.0 48.6 72.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 1.540 ug/l

RT: 7.87 min Scan# 1102

Delta R.T. 0.13 min

Lab File: VX011548.D

Acq: 13 Aug 2019 19:58

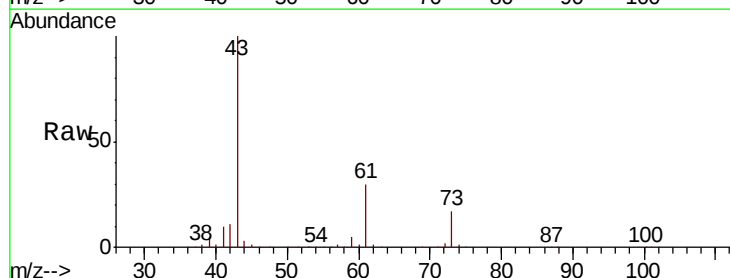
Tgt Ion: 88 Resp: 86

Ion Ratio Lower Upper

88 100

43 719207.0 22.2 33.2#

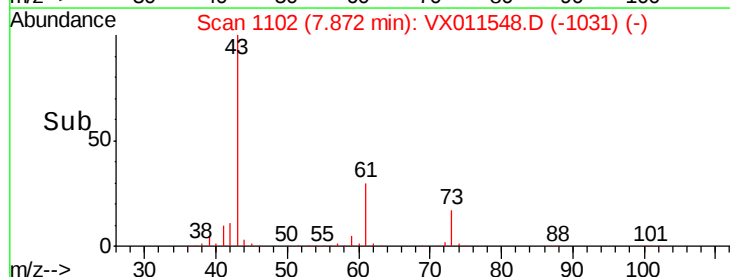
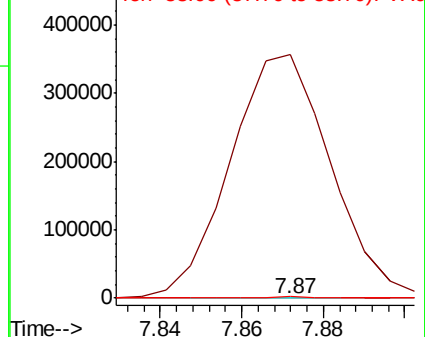
58 3522.1 47.8 71.8#

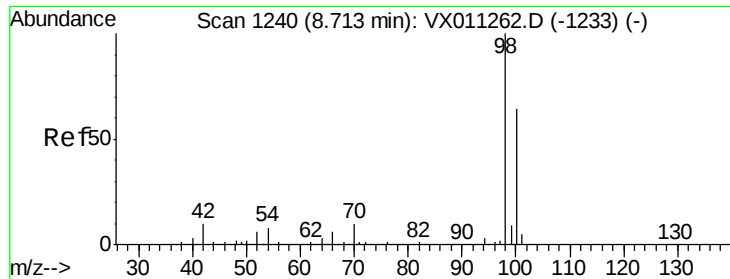


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.359 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011548.D

Acq: 13 Aug 2019 19:58

Instrument :

MSVOA_X

ClientSampleId :

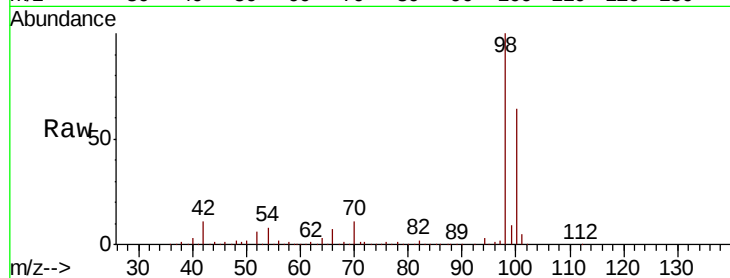
R1-R2-C1-(0)

Tgt Ion: 98 Resp: 348338

Ion Ratio Lower Upper

98 100

100 64.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

250000

200000

150000

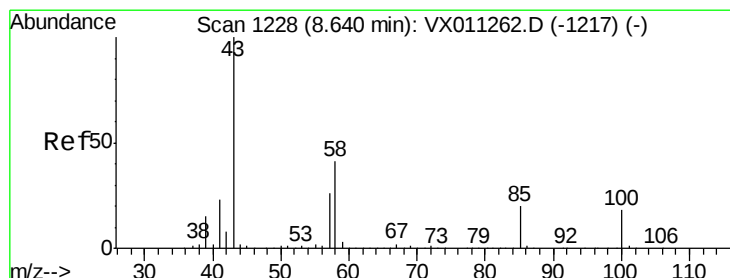
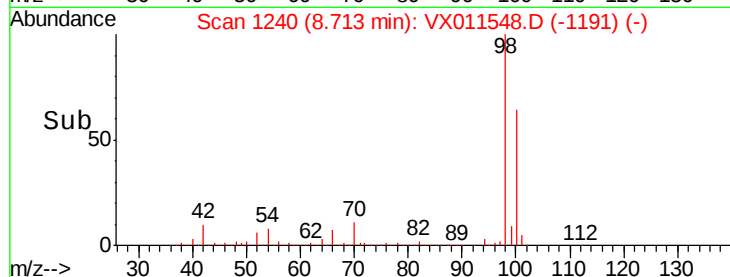
100000

50000

0

8.60 8.65 8.70 8.75 8.80

Time-->



#51

4-Methyl-2-Pentanone

Concen: 12.717 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011548.D

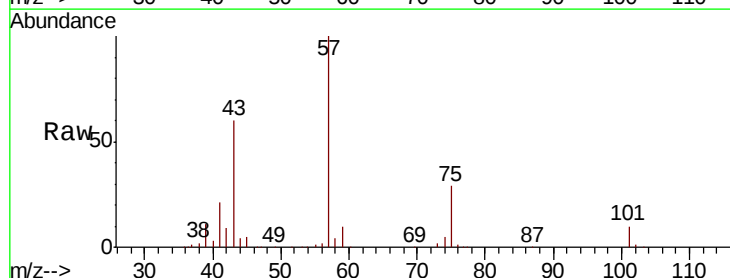
Acq: 13 Aug 2019 19:58

Tgt Ion: 43 Resp: 33587

Ion Ratio Lower Upper

43 100

58 9.1 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

25000

20000

15000

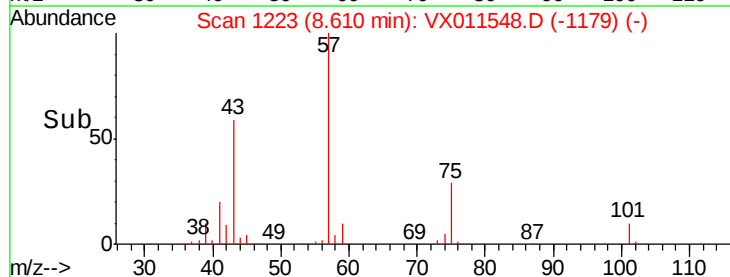
10000

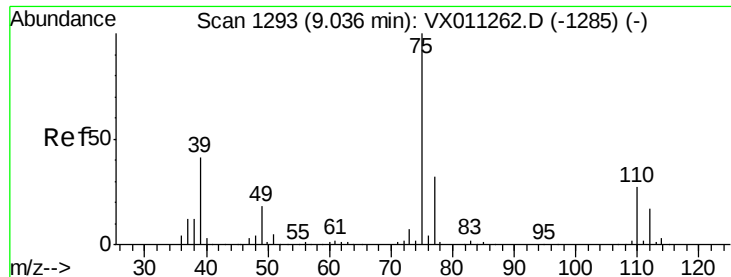
5000

0

8.50 8.55 8.60 8.65 8.70

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.876 ug/l

RT: 9.01 min Scan# 1289

Delta R.T. -0.02 min

Lab File: VX011548.D

Acq: 13 Aug 2019 19:58

Instrument :

MSVOA_X

ClientSampleId :

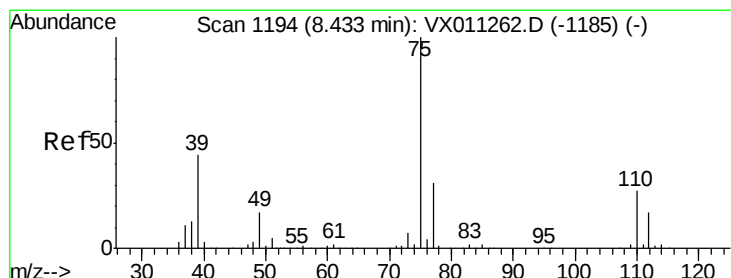
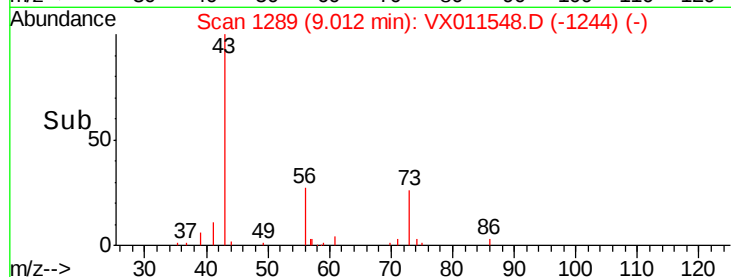
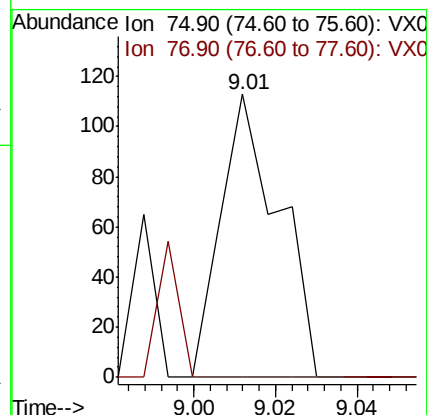
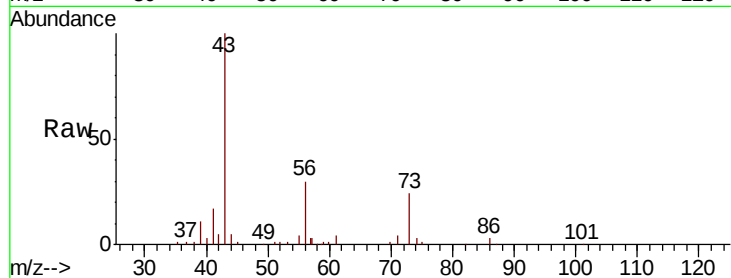
R1-R2-C1-(0)

Tgt Ion: 75 Resp: 112

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



#54

cis-1,3-Dichloropropene

Concen: 5.348 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011548.D

Acq: 13 Aug 2019 19:58

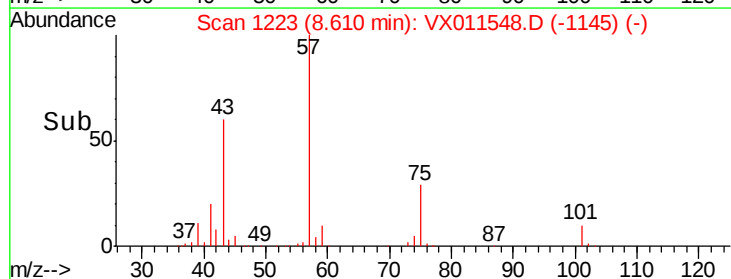
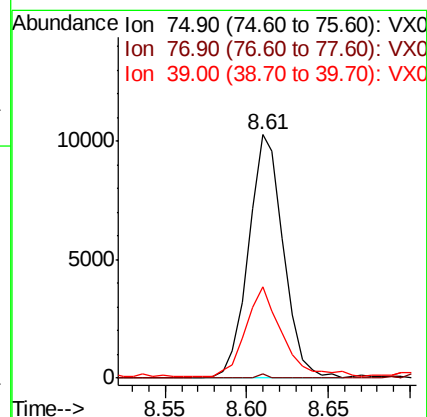
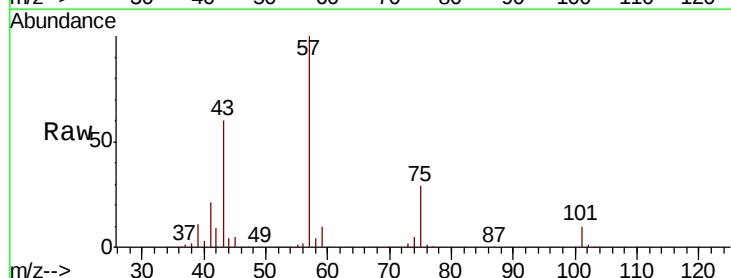
Tgt Ion: 75 Resp: 15227

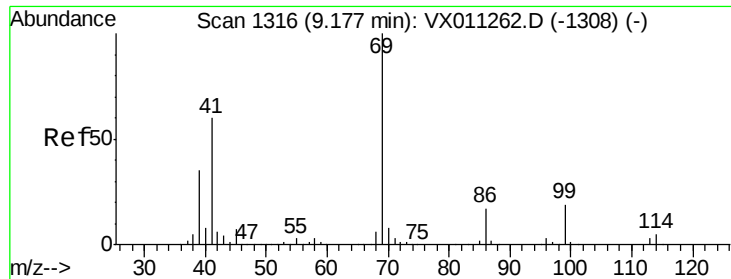
Ion Ratio Lower Upper

75 100

77 1.5 25.0 37.6#

39 36.7 35.3 52.9





#56

Ethyl methacrylate

Concen: 0.257 ug/l

RT: 9.30 min Scan# 1337

Delta R.T. 0.13 min

Lab File: VX011548.D

Acq: 13 Aug 2019 19:58

Instrument :

MSVOA_X

ClientSampled :

R1-R2-C1-(0)

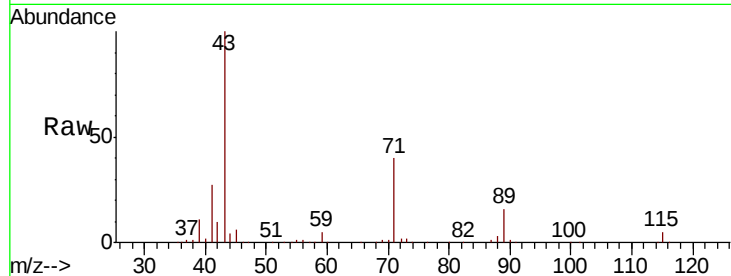
Tgt Ion: 69 Resp: 759

Ion Ratio Lower Upper

69 100

41 3859.0 48.6 73.0#

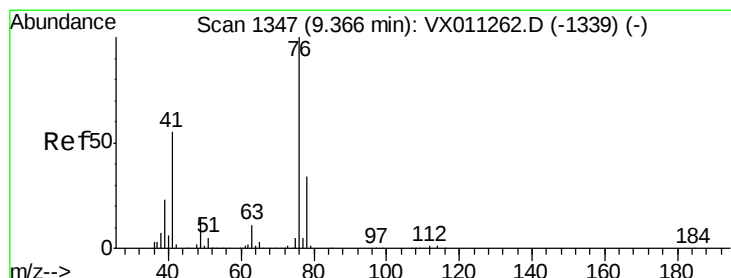
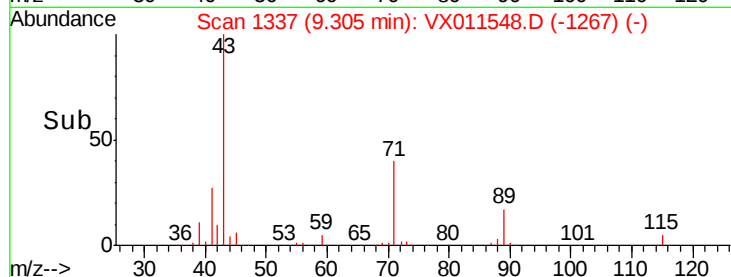
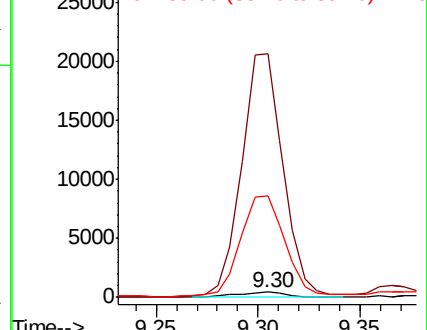
39 1707.0 29.4 44.2#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 0.954 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011548.D

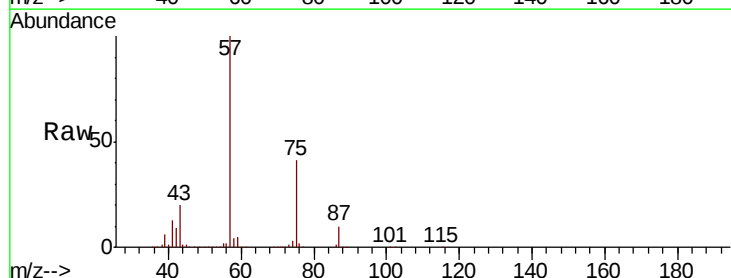
Acq: 13 Aug 2019 19:58

Tgt Ion: 76 Resp: 3122

Ion Ratio Lower Upper

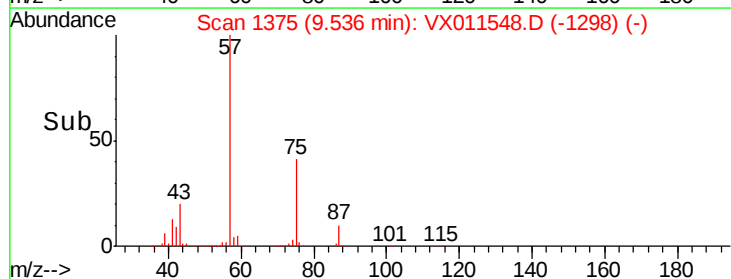
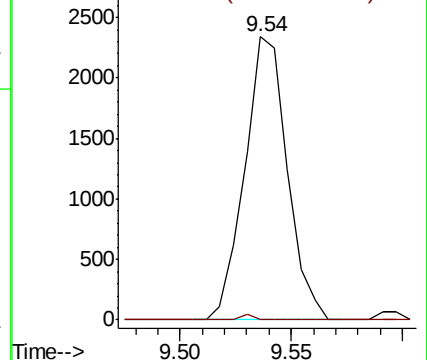
76 100

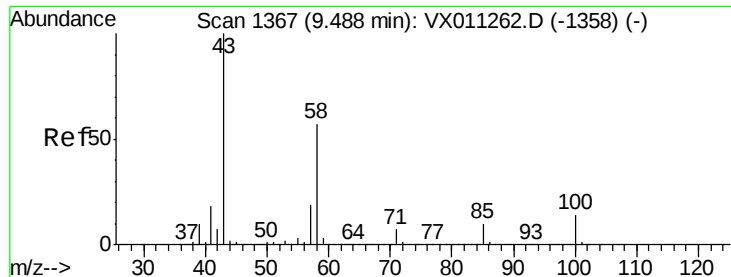
78 0.6 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

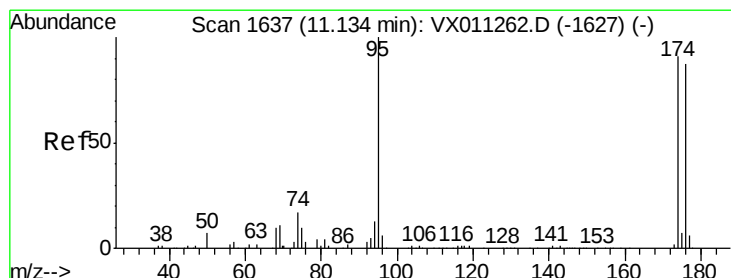
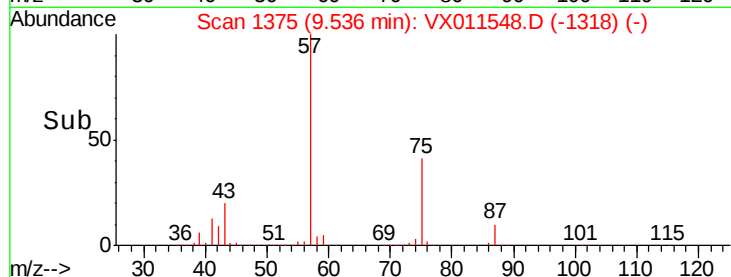
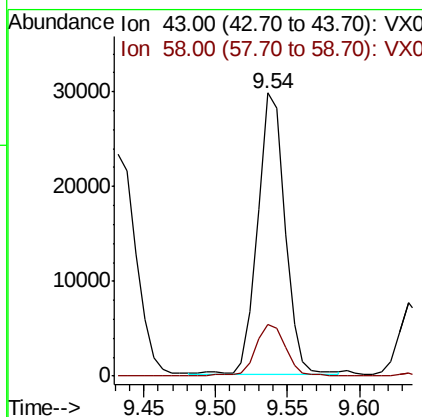
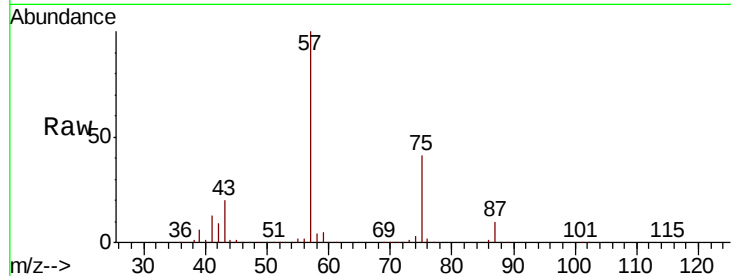




#59
2-Hexanone
Concen: 19.138 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011548.D
Acq: 13 Aug 2019 19:58

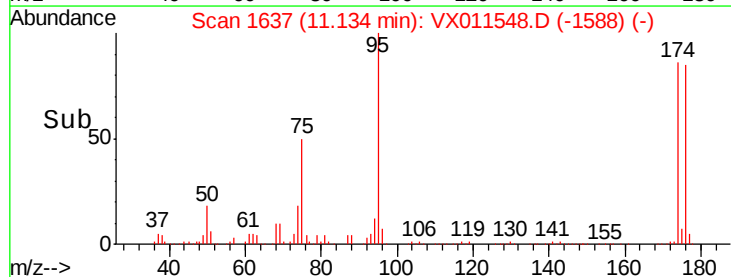
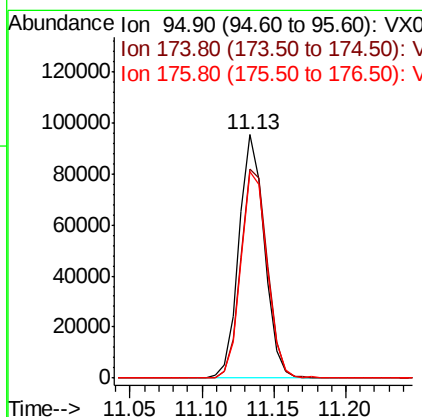
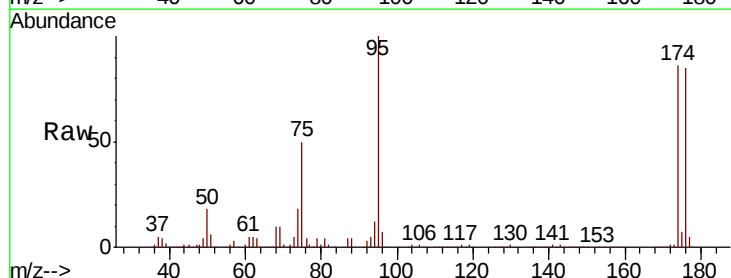
Instrument :
MSVOA_X
ClientSampleId :
R1-R2-C1-(0)

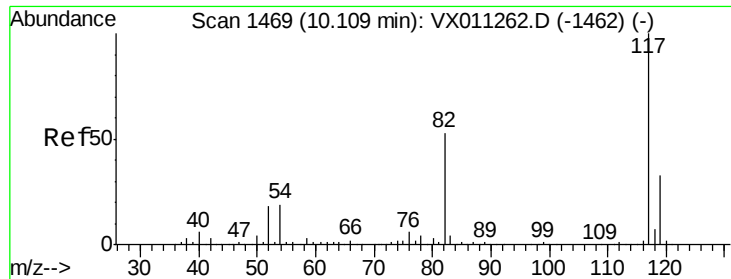
Tgt Ion: 43 Resp: 39152
Ion Ratio Lower Upper
43 100
58 20.6 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 45.767 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011548.D
Acq: 13 Aug 2019 19:58

Tgt Ion: 95 Resp: 117701
Ion Ratio Lower Upper
95 100
174 89.9 0.0 191.2
176 87.3 0.0 184.8

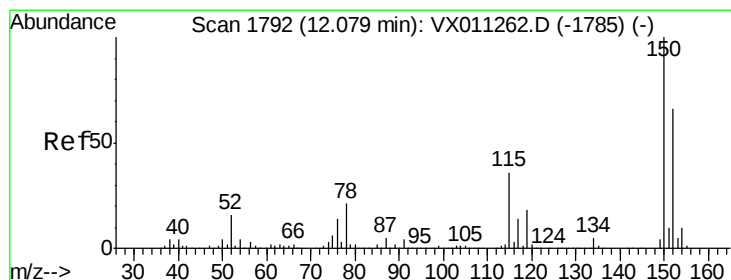
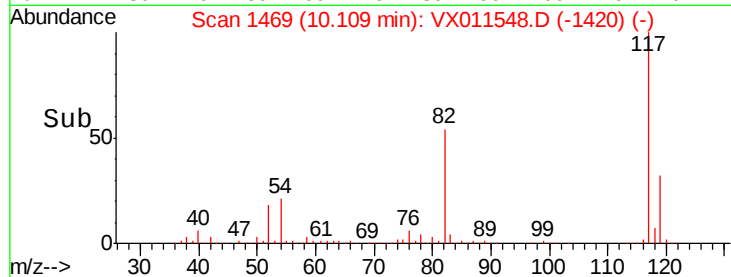
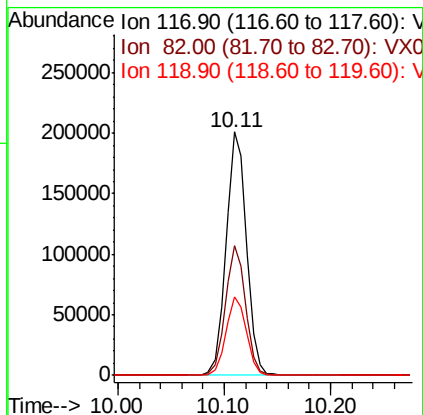
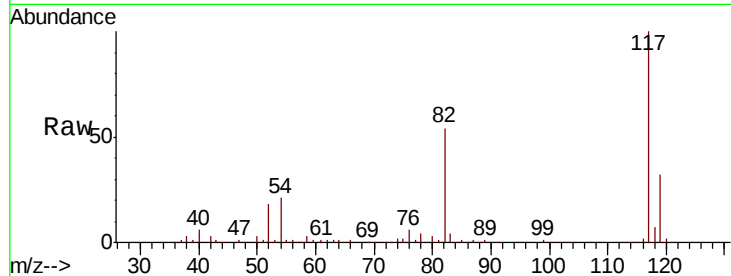




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011548.D
Acq: 13 Aug 2019 19:58

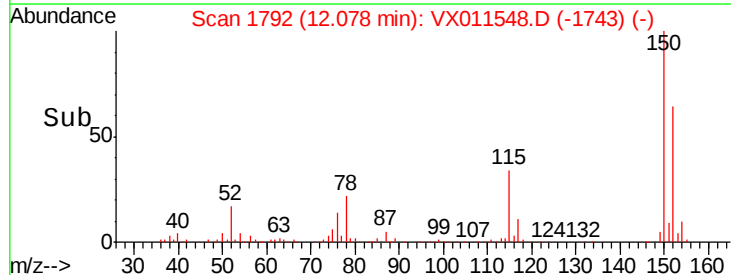
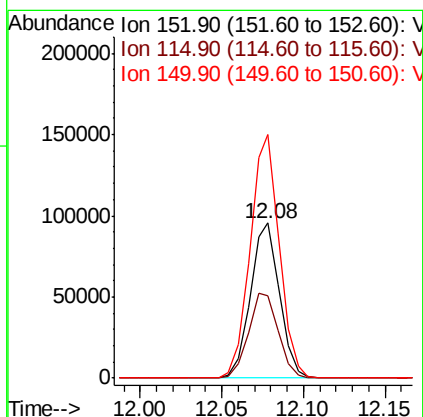
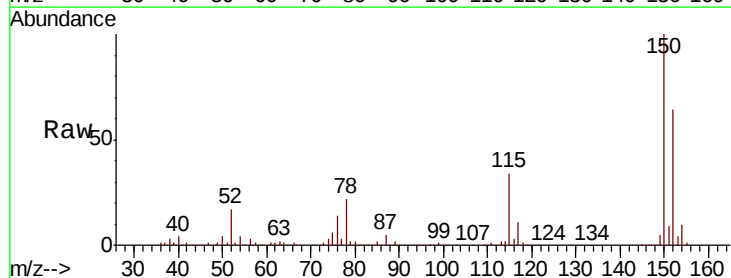
Instrument :
MSVOA_X
ClientSampleId :
R1-R2-C1-(0)

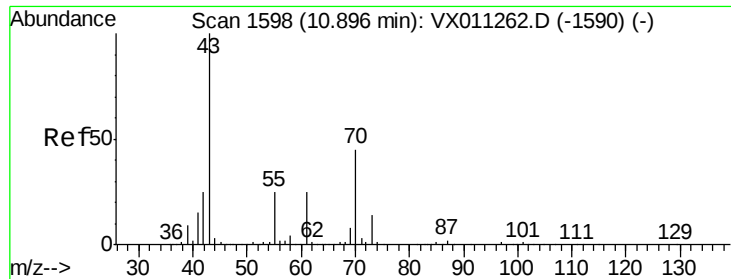
Tgt Ion:117 Resp: 269269
Ion Ratio Lower Upper
117 100
82 53.5 42.2 63.2
119 32.2 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011548.D
Acq: 13 Aug 2019 19:58

Tgt Ion:152 Resp: 118629
Ion Ratio Lower Upper
152 100
115 56.5 40.0 119.9
150 157.4 0.0 350.4





#74

N-amyI acetate

Concen: 0.583 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011548.D

Acq: 13 Aug 2019 19:58

Instrument :

MSVOA_X

ClientSampleId :

R1-R2-C1(0)

Tgt Ion: 43 Resp: 1709

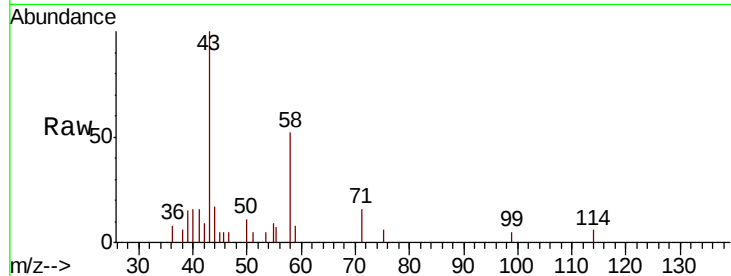
Ion Ratio Lower Upper

43 100

70 0.0 35.9 53.9#

55 12.8 19.8 29.6#

61 0.0 19.7 29.5#

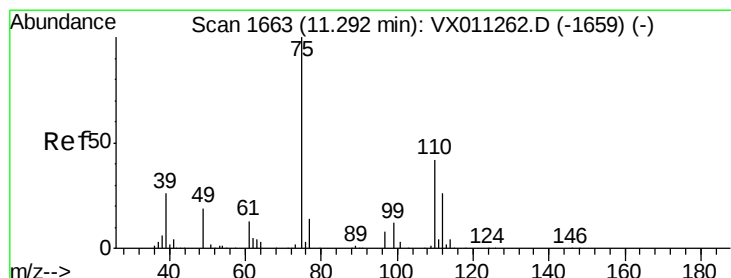
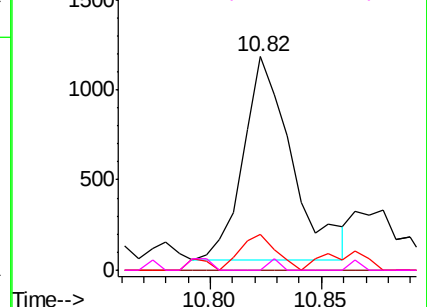
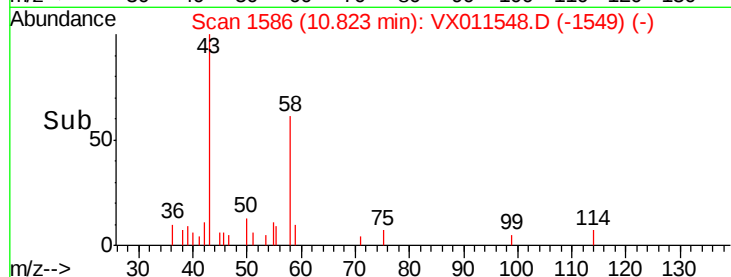


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 27.732 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011548.D

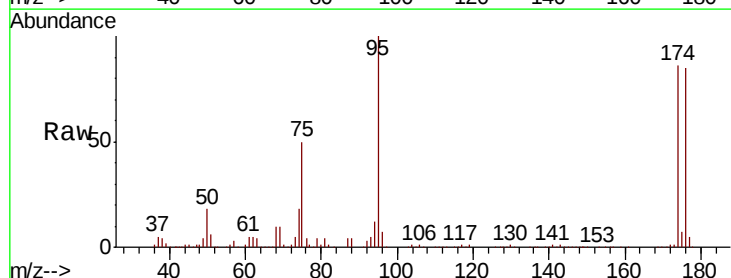
Acq: 13 Aug 2019 19:58

Tgt Ion: 75 Resp: 59911

Ion Ratio Lower Upper

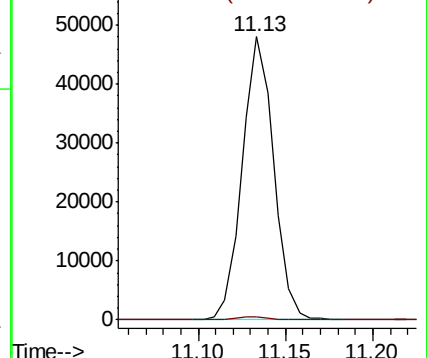
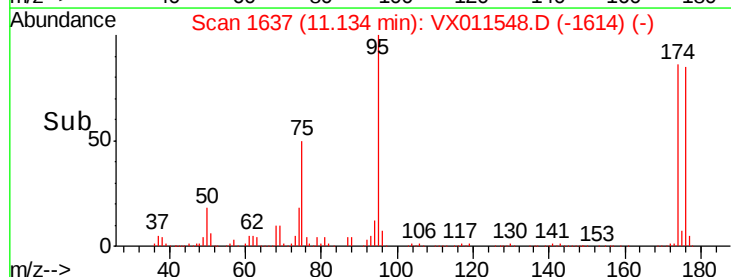
75 100

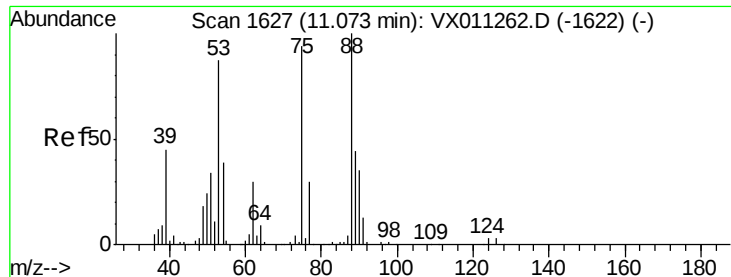
77 1.2 21.1 63.4#



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: 71.873 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011548.D

Acq: 13 Aug 2019 19:58

Instrument :

MSVOA_X

ClientSampleId :

R1-R2-C1-(0)

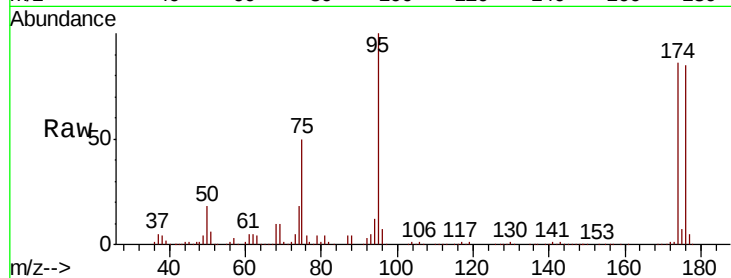
Tgt Ion: 75 Resp: 59911

Ion Ratio Lower Upper

75 100

53 0.0 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

