

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081119\
 Data File : VX011433.D
 Acq On : 11 Aug 2019 15:52
 Operator : JC/SP
 Sample : K4228-31
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1S-N-(1)

Quant Time: Aug 12 07:49:26 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

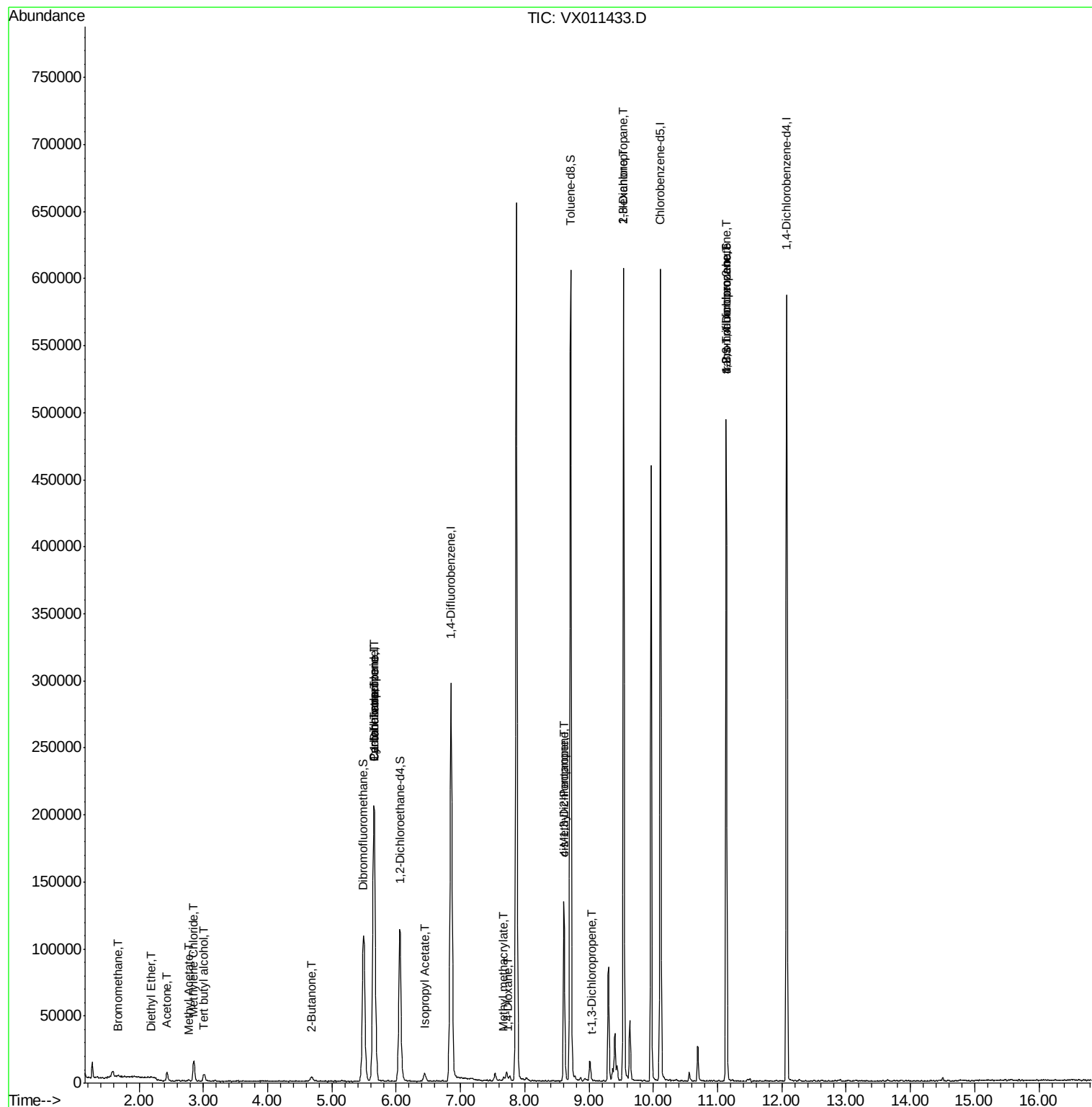
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	201530	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	300674	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	274827	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	124996	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	107677	53.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.12%	
35) Dibromofluoromethane	5.49	113	92291	47.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.02%	
50) Toluene-d8	8.71	98	360235	48.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.24%	
62) 4-Bromofluorobenzene	11.13	95	119778	45.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.56%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.66	94	390	0.284	ug/l	92
6) Chloroethane	1.66	64	147	Below Cal	#	43
8) Diethyl Ether	2.18	74	491	0.402	ug/l	71
11) Tert butyl alcohol	3.00	59	3166	7.845	ug/l #	83
13) Acrolein	2.29	56	69	Below Cal	#	35
16) Acetone	2.43	43	7037	7.285	ug/l	96
18) Methyl Acetate	2.77	43	1634	0.740	ug/l #	89
20) Methylene Chloride	2.85	84	7198	3.402	ug/l	95
25) 2-Butanone	4.68	43	1153	0.839	ug/l #	78
31) Cyclohexane	5.65	56	4040	1.546	ug/l #	8
36) 1,1-Dichloropropene	5.65	75	13944	5.312	ug/l #	49
38) Carbon Tetrachloride	5.66	117	19077	7.223	ug/l #	15
43) Isopropyl Acetate	6.44	43	8492	2.017	ug/l	98
48) Methyl methacrylate	7.68	41	3680	1.857	ug/l #	10
49) 1,4-Dioxane	7.74	88	55	0.958	ug/l #	29
51) 4-Methyl-2-Pentanone	8.61	43	42919	15.797	ug/l #	48
53) t-1,3-Dichloropropene	9.04	75	83	2.865	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	21160	7.224	ug/l #	70
57) 1,3-Dichloropropane	9.54	76	5439	1.615	ug/l #	41
59) 2-Hexanone	9.54	43	68343	32.476	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	61614	27.067	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	61614	70.260	ug/l #	10

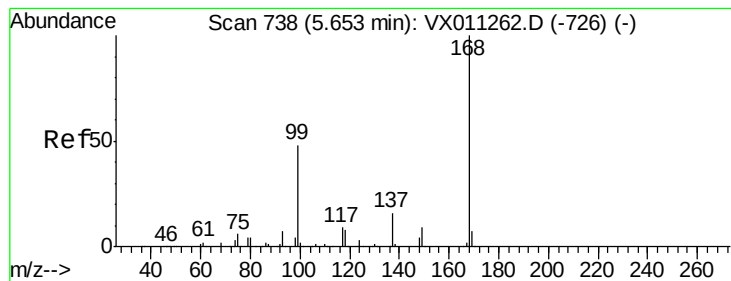
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011433.D

Acq: 11 Aug 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

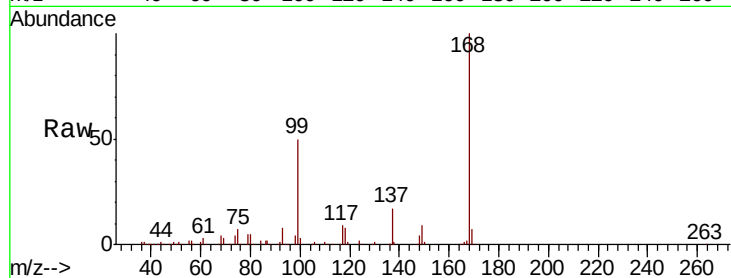
1S-N(1)

Tgt Ion:168 Resp: 201530

Ion Ratio Lower Upper

168 100

99 50.4 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

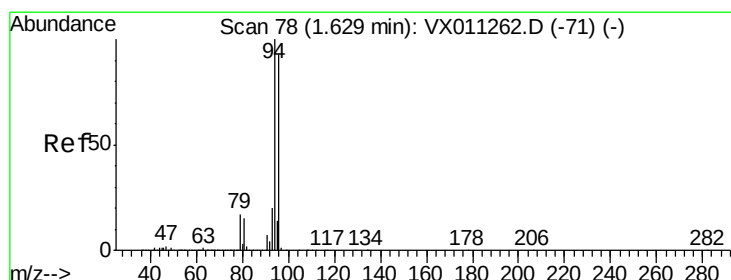
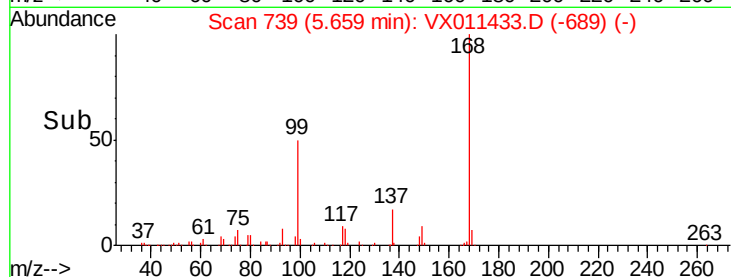
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.284 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.03 min

Lab File: VX011433.D

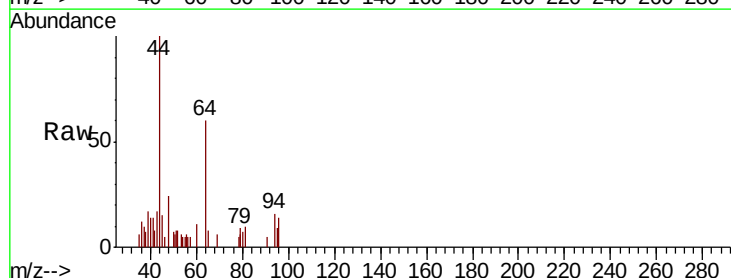
Acq: 11 Aug 2019 15:52

Tgt Ion: 94 Resp: 390

Ion Ratio Lower Upper

94 100

96 85.2 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

200

150

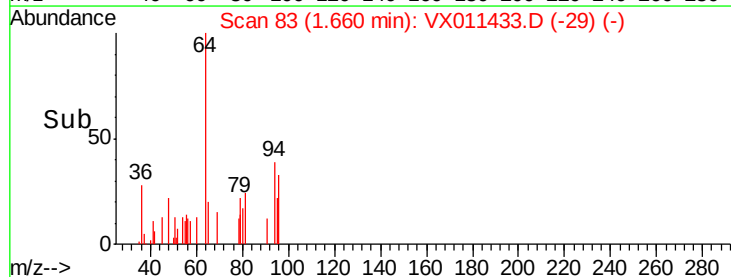
100

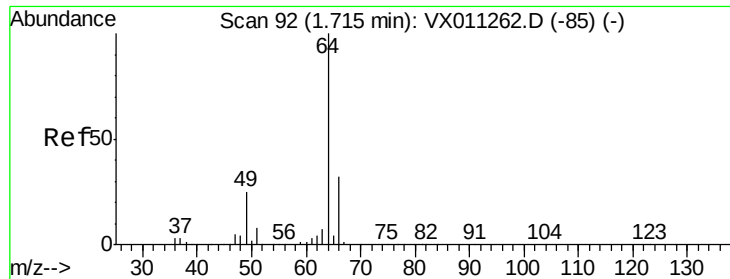
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. -0.05 min

Lab File: VX011433.D

Acq: 11 Aug 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

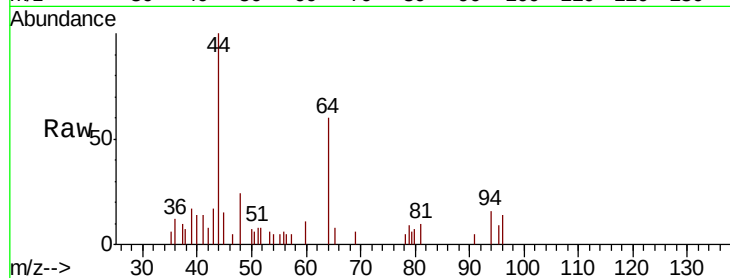
1S-N(1)

Tgt Ion: 64 Resp: 147

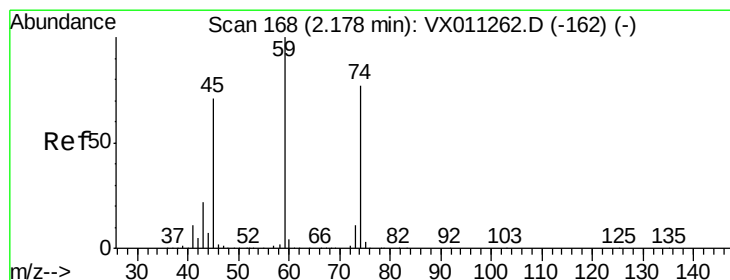
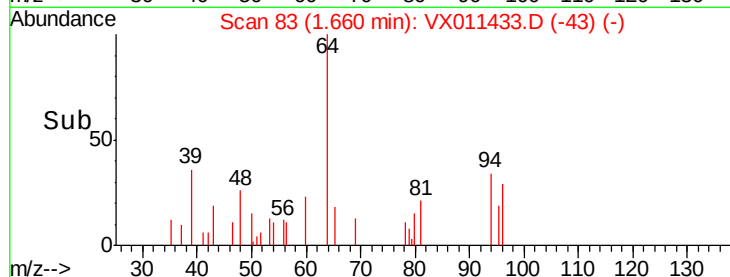
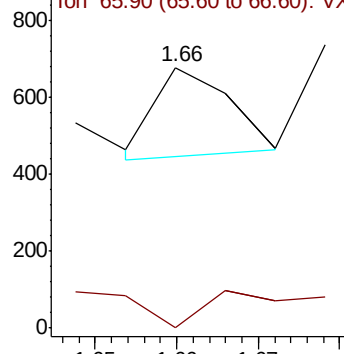
Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0



#8

Diethyl Ether

Concen: 0.402 ug/l

RT: 2.18 min Scan# 168

Delta R.T. 0.00 min

Lab File: VX011433.D

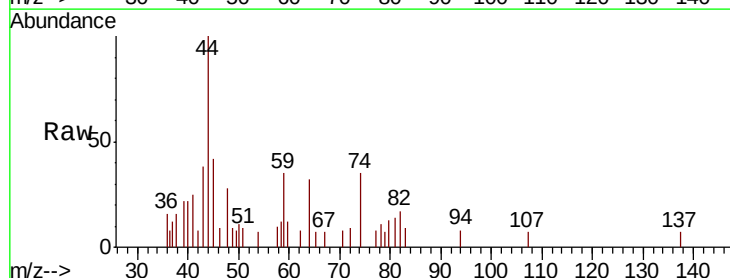
Acq: 11 Aug 2019 15:52

Tgt Ion: 74 Resp: 491

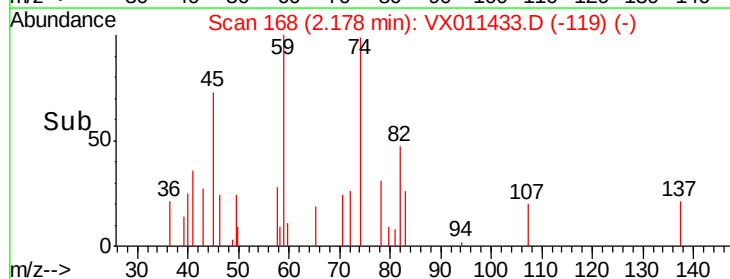
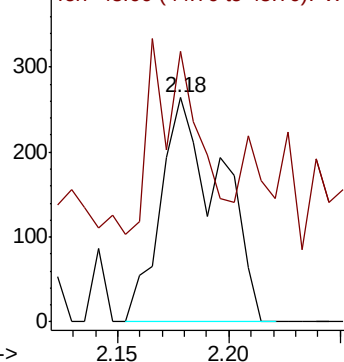
Ion Ratio Lower Upper

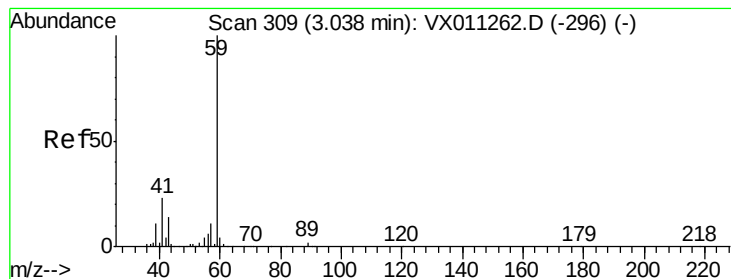
74 100

45 64.6 46.1 138.3



Abundance Ion 74.00 (73.70 to 74.70): VX0





#11

Tert butyl alcohol

Concen: 7.845 ug/l

RT: 3.00 min Scan# 303

Delta R.T. -0.04 min

Lab File: VX011433.D

Acq: 11 Aug 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

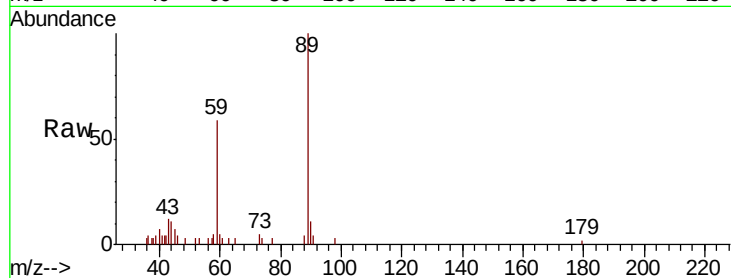
1S-N(1)

Tgt Ion: 59 Resp: 3166

Ion Ratio Lower Upper

59 100

57 4.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

1500

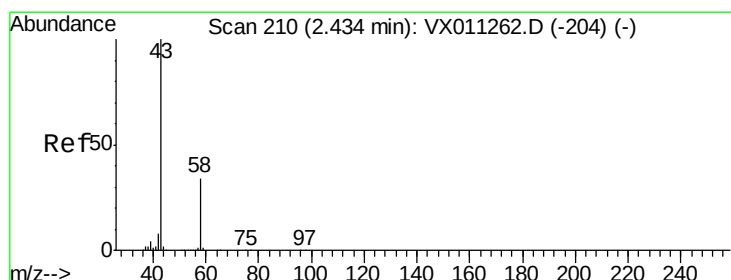
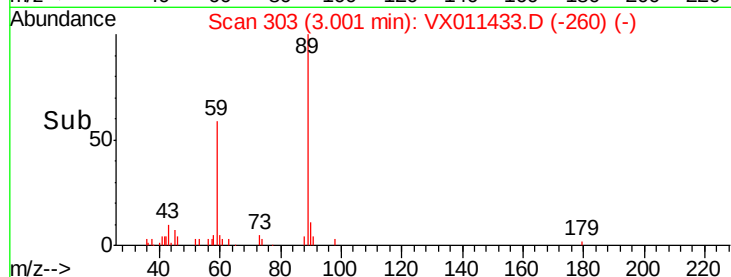
1000

500

0

2.90 2.95 3.00 3.05 3.10

Time-->



#16

Acetone

Concen: 7.285 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011433.D

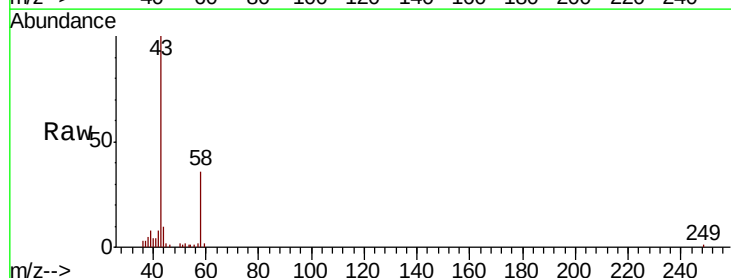
Acq: 11 Aug 2019 15:52

Tgt Ion: 43 Resp: 7037

Ion Ratio Lower Upper

43 100

58 36.5 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

4000

3000

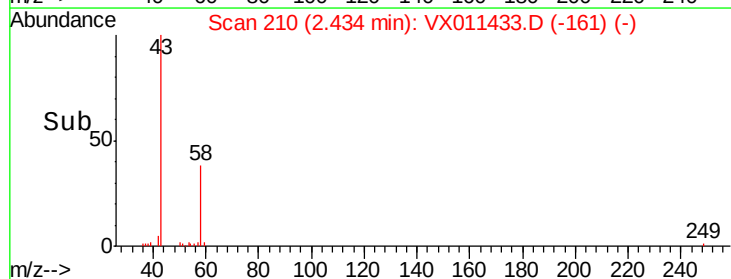
2000

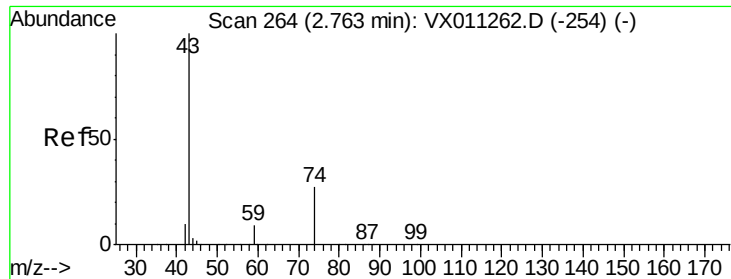
1000

0

2.35 2.40 2.45 2.50

Time-->

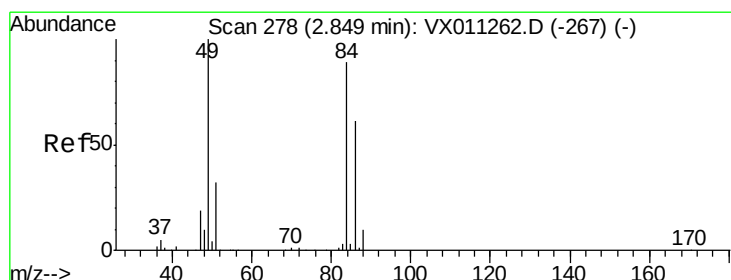
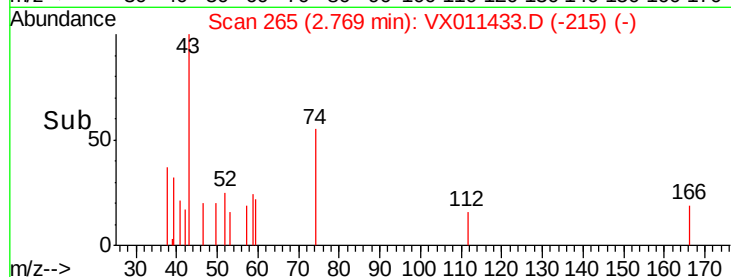
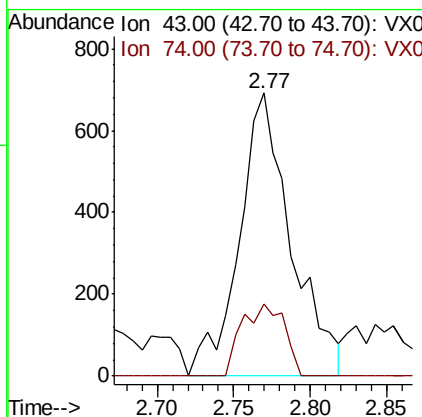
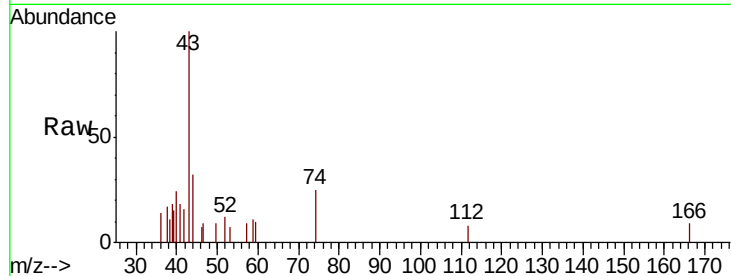




#18
Methyl Acetate
Concen: 0.740 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011433.D
Acq: 11 Aug 2019 15:52

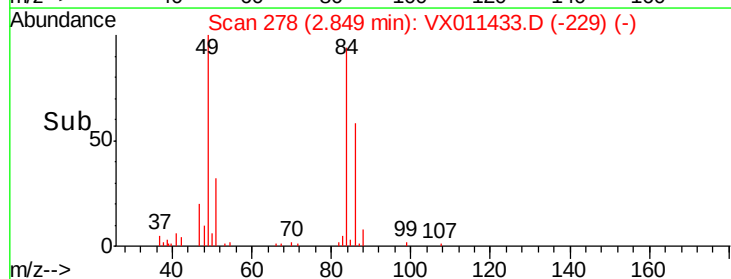
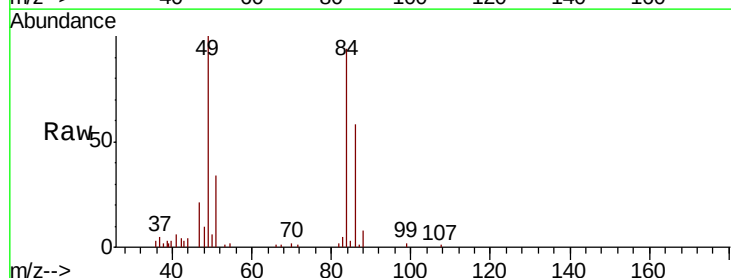
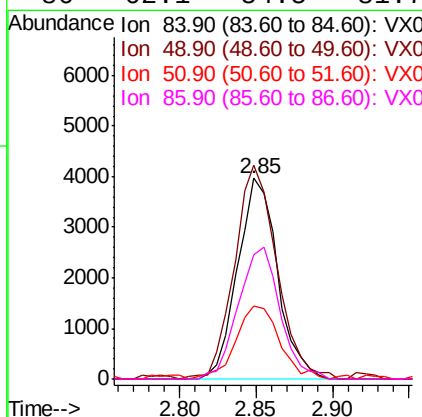
Instrument :
MSVOA_X
ClientSampleId :
1S-N(1)

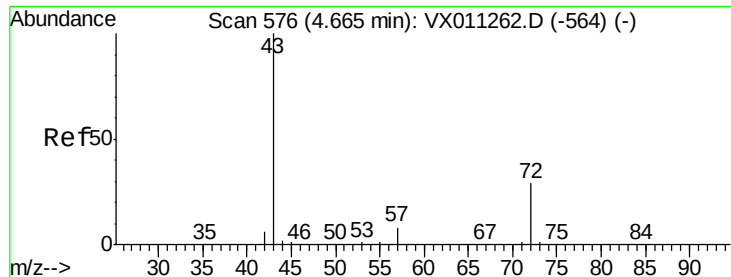
Tgt Ion: 43 Resp: 1634
Ion Ratio Lower Upper
43 100
74 20.7 21.0 31.6#



#20
Methylene Chloride
Concen: 3.402 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011433.D
Acq: 11 Aug 2019 15:52

Tgt Ion: 84 Resp: 7198
Ion Ratio Lower Upper
84 100
49 106.5 89.3 133.9
51 36.2 28.3 42.5
86 62.1 54.5 81.7





#25

2-Butanone

Concen: 0.839 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011433.D

Acq: 11 Aug 2019 15:52

Instrument :

MSVOA_X

ClientSampled :

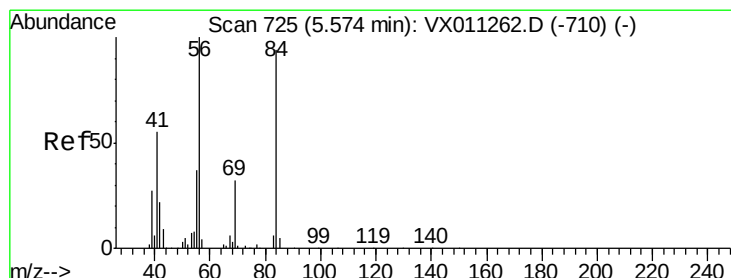
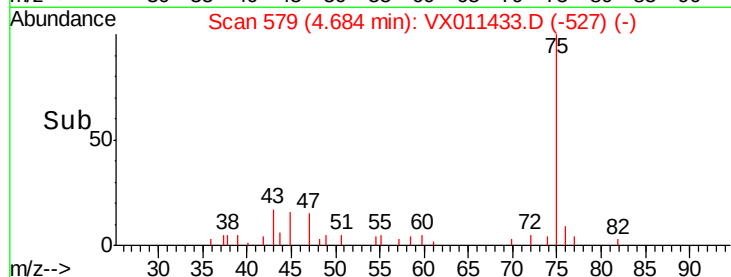
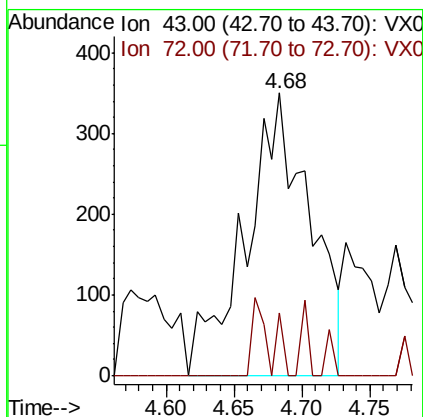
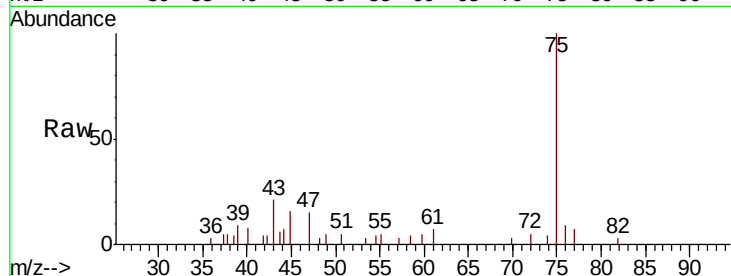
1S-N(1)

Tgt Ion: 43 Resp: 1153

Ion Ratio Lower Upper

43 100

72 17.0 23.2 34.8#



#31

Cyclohexane

Concen: 1.546 ug/l

RT: 5.65 min Scan# 737

Delta R.T. 0.07 min

Lab File: VX011433.D

Acq: 11 Aug 2019 15:52

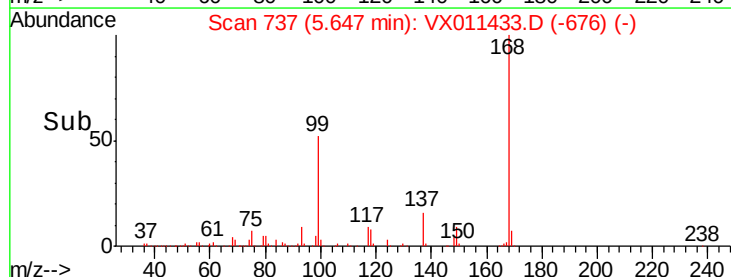
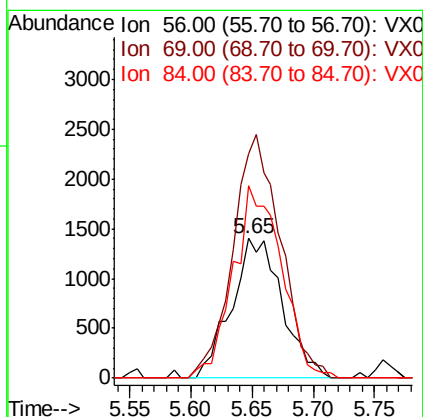
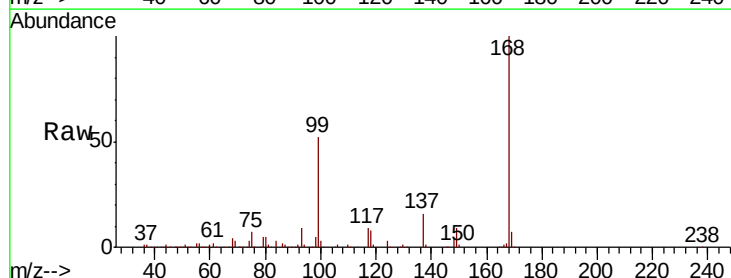
Tgt Ion: 56 Resp: 4040

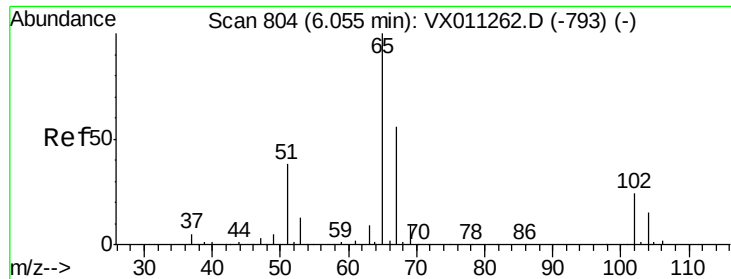
Ion Ratio Lower Upper

56 100

69 160.4 25.5 38.3#

84 137.4 75.0 112.4#

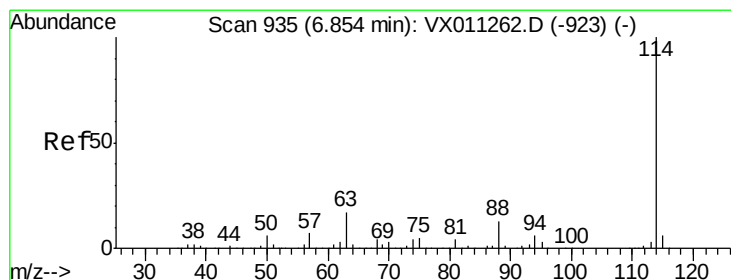
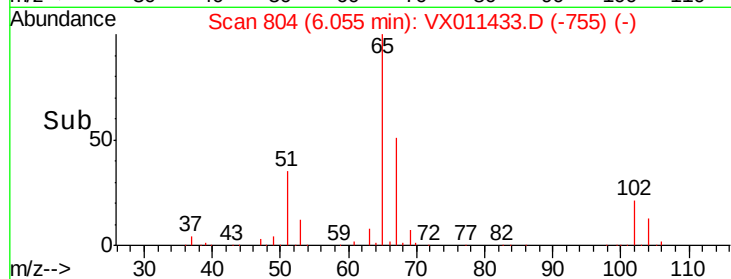
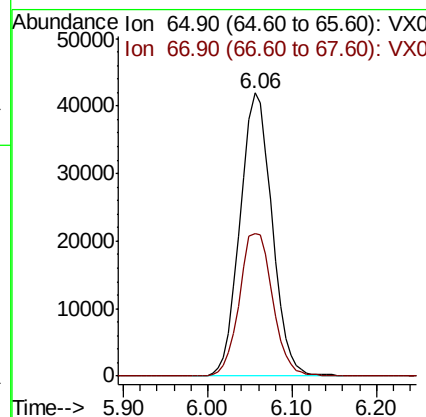
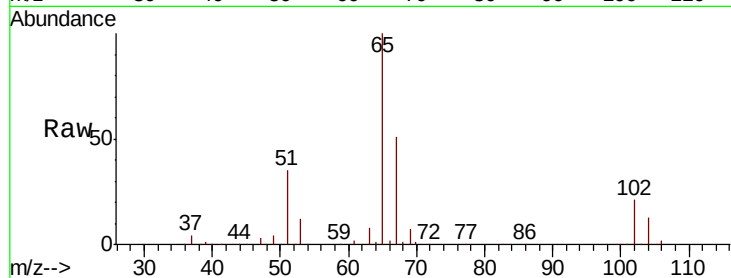




#33
 1,2-Dichloroethane-d4
 Concen: 53.056 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: VX011433.D
 Acq: 11 Aug 2019 15:52

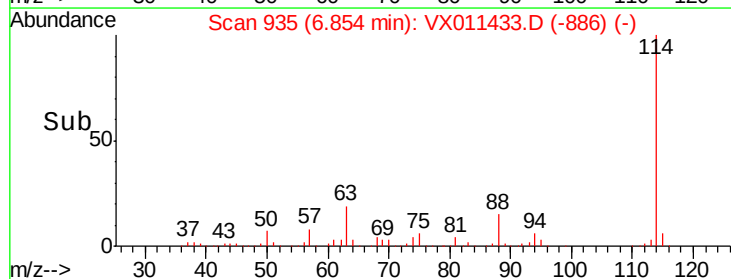
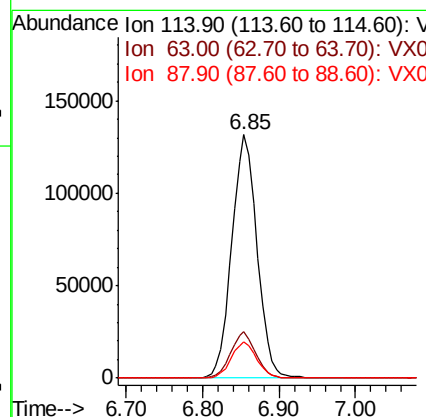
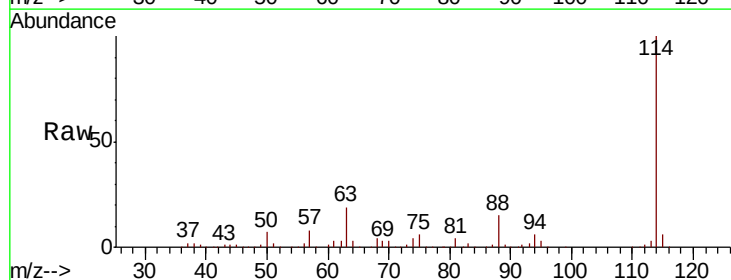
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 1S-N(1)

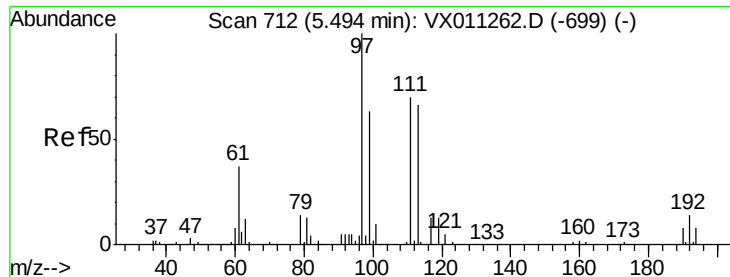
Tgt Ion: 65 Resp: 107677
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011433.D
 Acq: 11 Aug 2019 15:52

Tgt Ion: 114 Resp: 300674
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 34.0
 88 14.8 0.0 26.4

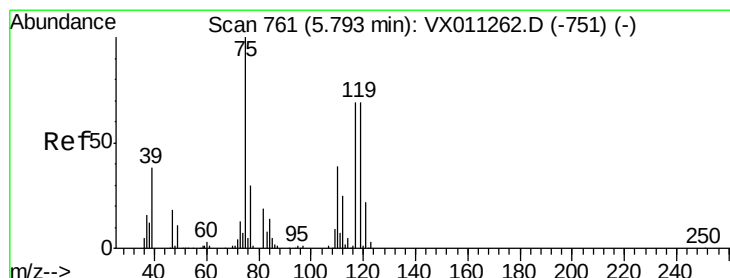
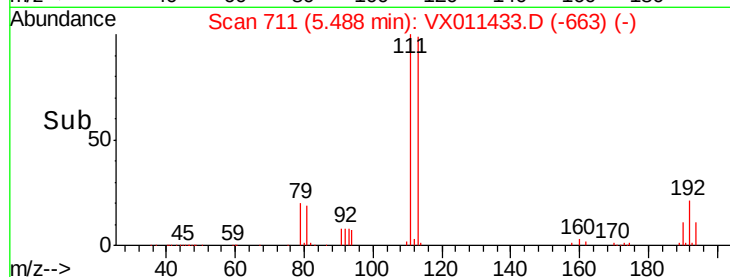
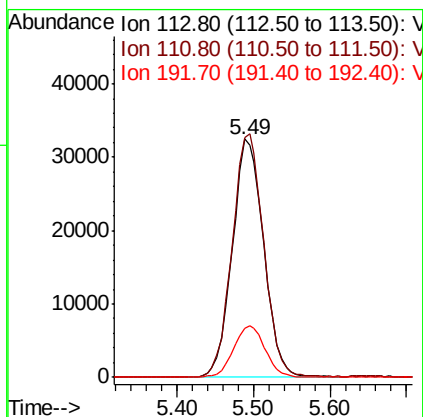
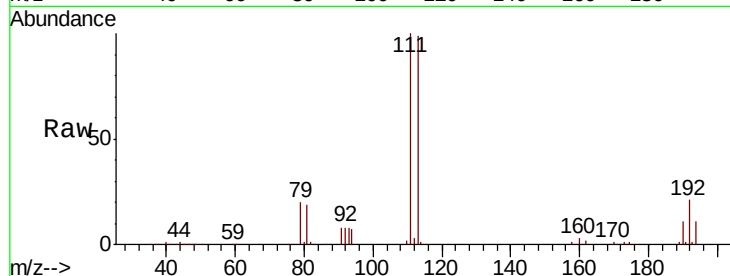




#35
 Dibromofluoromethane
 Concen: 47.014 ug/l
 RT: 5.49 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VX011433.D
 Acq: 11 Aug 2019 15:52

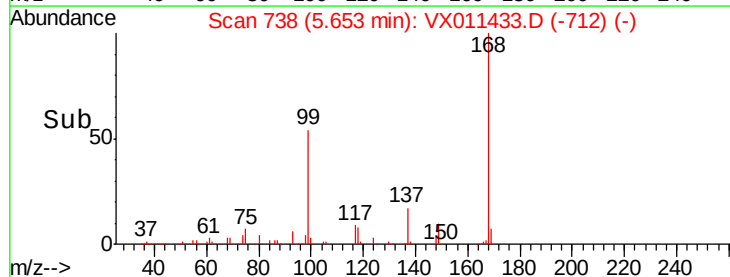
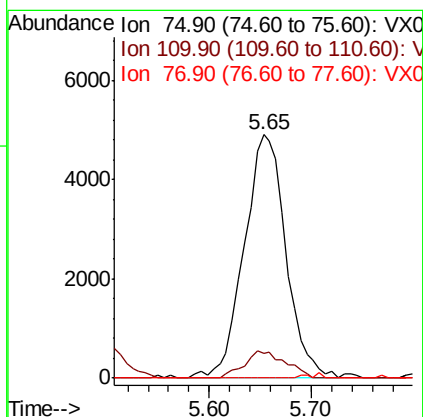
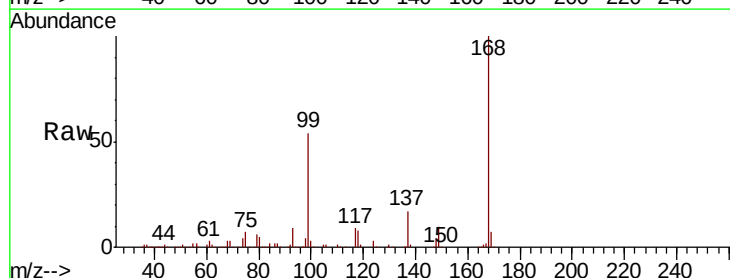
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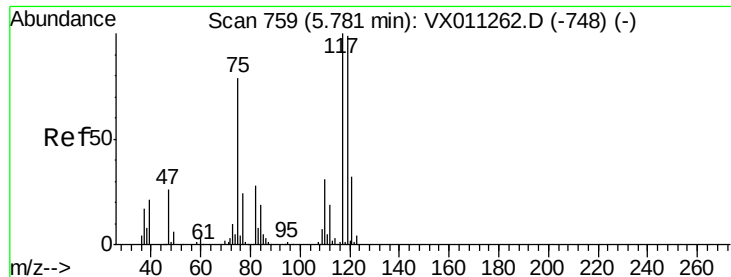
Tgt Ion:113 Resp: 92291
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.9 122.9
 192 21.7 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 5.312 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011433.D
 Acq: 11 Aug 2019 15:52

Tgt Ion: 75 Resp: 13944
 Ion Ratio Lower Upper
 75 100
 110 11.0 20.0 59.9#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 7.223 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011433.D

Acq: 11 Aug 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

1S-N(1)

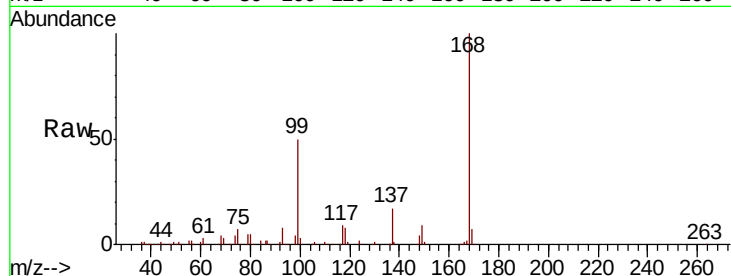
Tgt Ion:117 Resp: 19077

Ion Ratio Lower Upper

117 100

119 5.3 79.0 118.4#

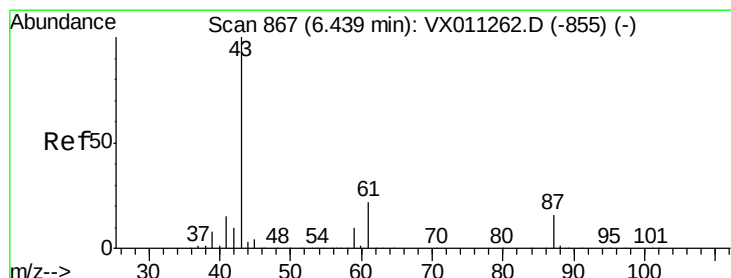
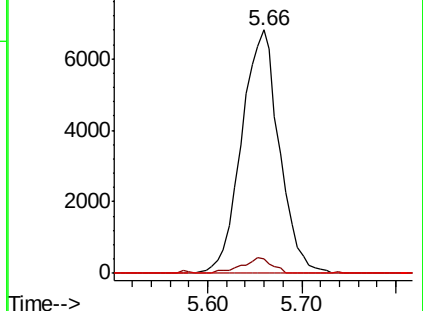
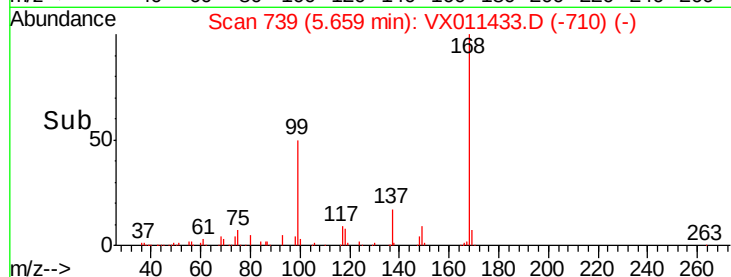
121 0.0 25.9 38.9#



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: 2.017 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011433.D

Acq: 11 Aug 2019 15:52

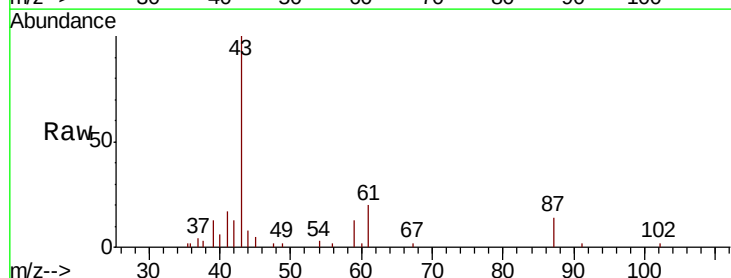
Tgt Ion: 43 Resp: 8492

Ion Ratio Lower Upper

43 100

61 19.5 16.5 24.7

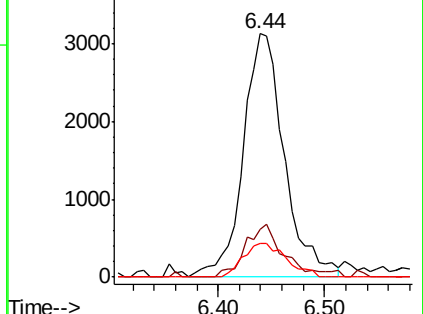
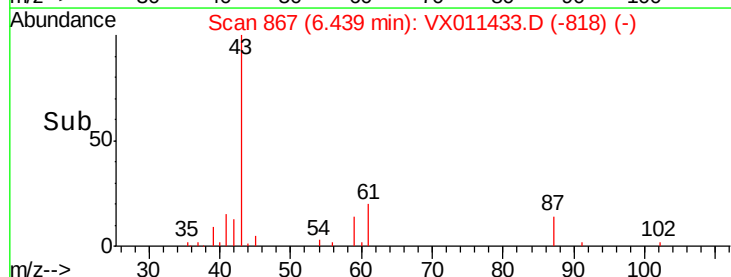
87 14.5 12.1 18.1

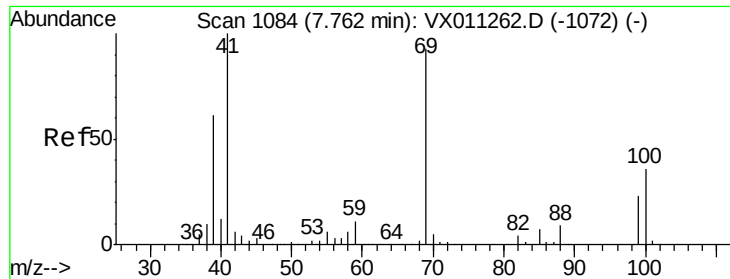


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

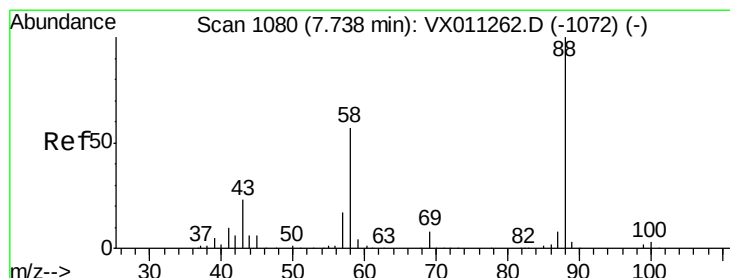
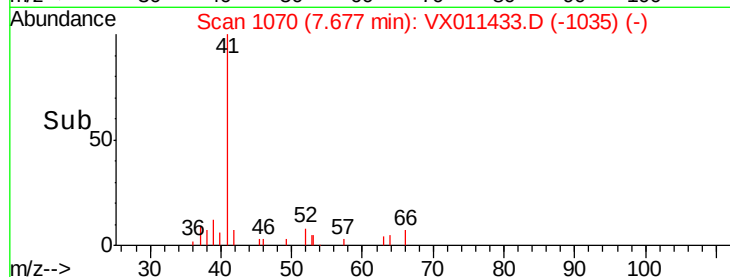
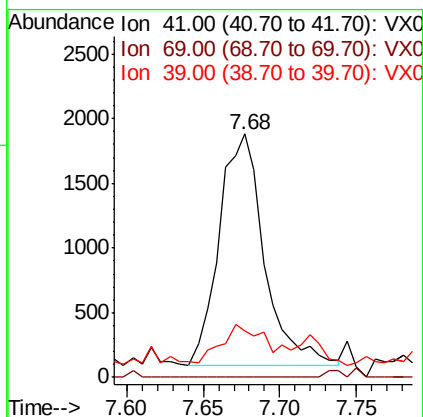
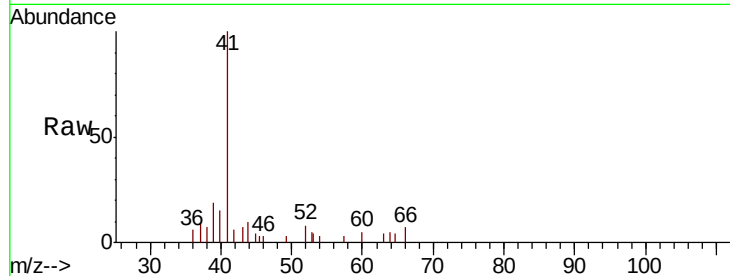




#48
Methyl methacrylate
Concen: 1.857 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011433.D
Acq: 11 Aug 2019 15:52

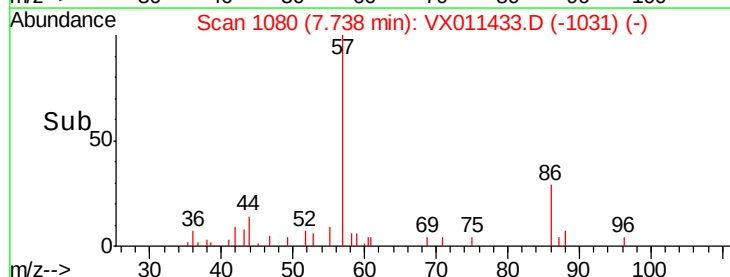
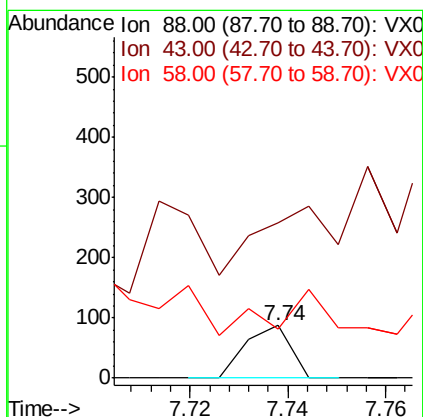
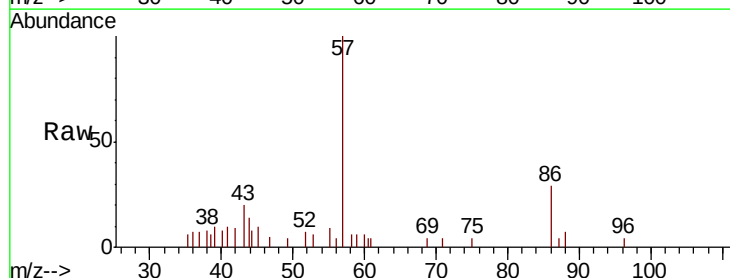
Instrument :
MSVOA_X
ClientSampled :
1S-N(1)

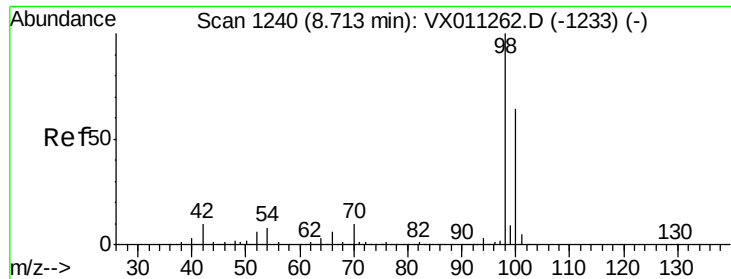
Tgt Ion: 41 Resp: 3680
Ion Ratio Lower Upper
41 100
69 0.0 74.5 111.7#
39 0.0 48.6 72.8#



#49
1,4-Dioxane
Concen: 0.958 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. 0.00 min
Lab File: VX011433.D
Acq: 11 Aug 2019 15:52

Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 0.0 47.8 71.8#

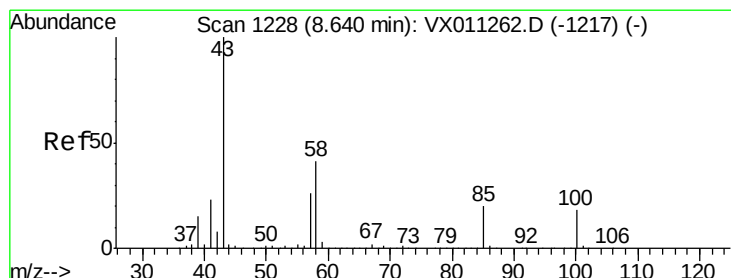
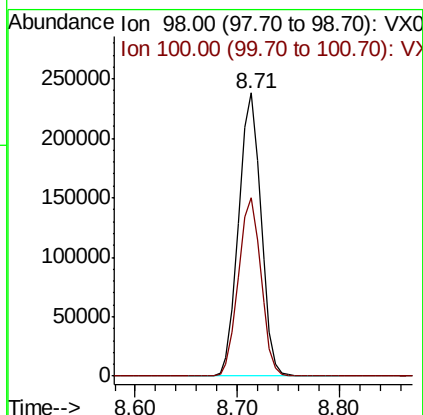
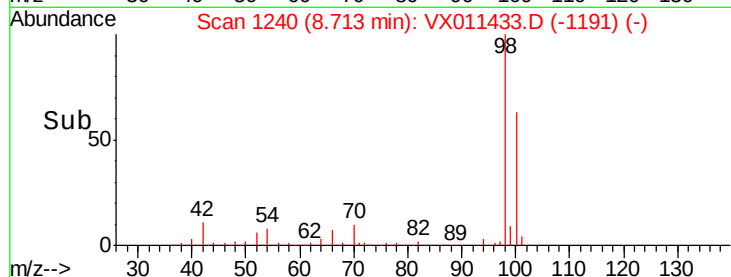
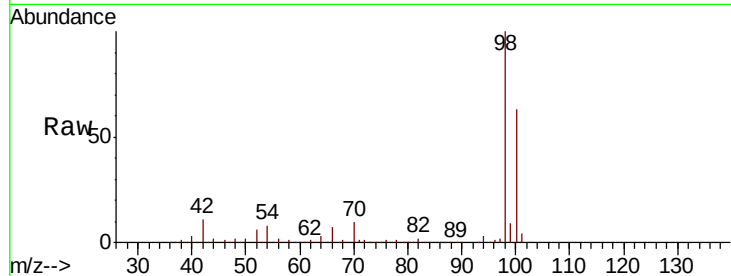




#50
Toluene-d8
Concen: 48.616 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011433.D
Acq: 11 Aug 2019 15:52

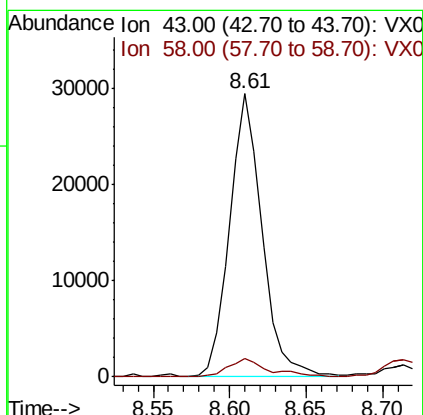
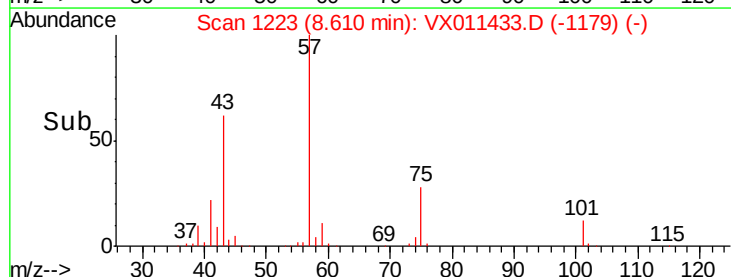
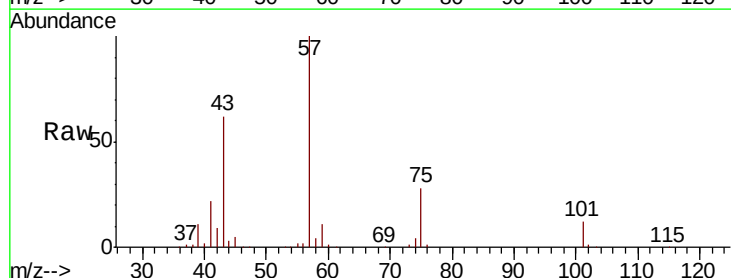
Instrument :
MSVOA_X
ClientSampled :
1S-N(1)

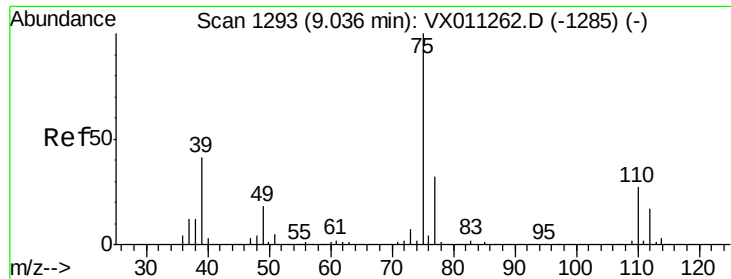
Tgt Ion: 98 Resp: 360235
Ion Ratio Lower Upper
98 100
100 63.7 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 15.797 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011433.D
Acq: 11 Aug 2019 15:52

Tgt Ion: 43 Resp: 42919
Ion Ratio Lower Upper
43 100
58 8.4 32.3 48.5#

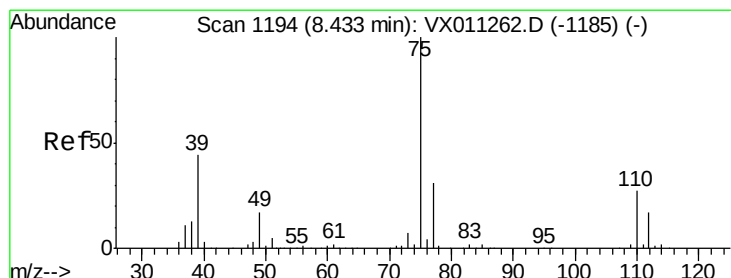
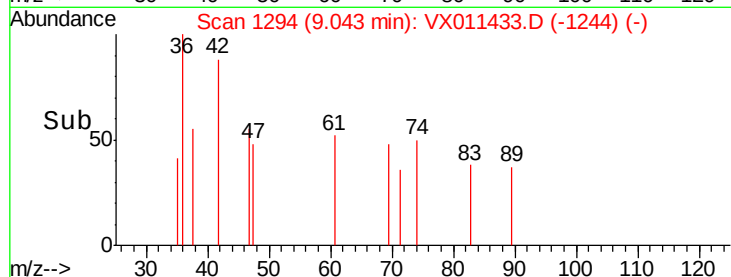
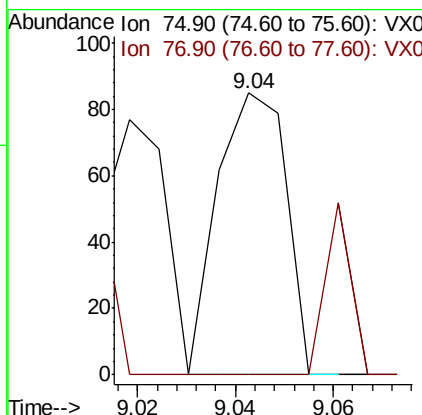
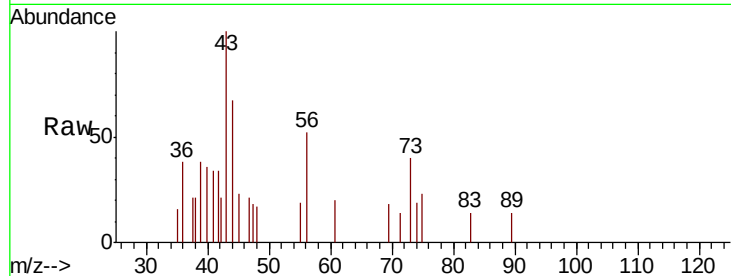




#53
 t-1,3-Dichloropropene
 Concen: 2.865 ug/l
 RT: 9.04 min Scan# 1294
 Delta R.T. 0.01 min
 Lab File: VX011433.D
 Acq: 11 Aug 2019 15:52

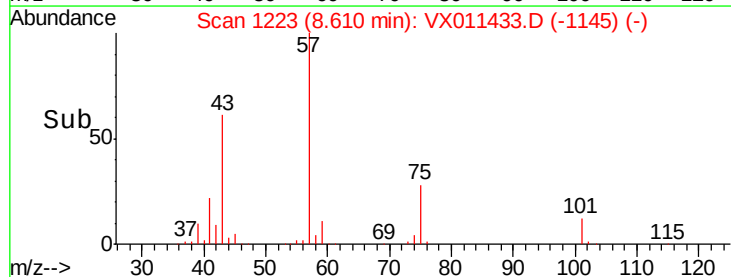
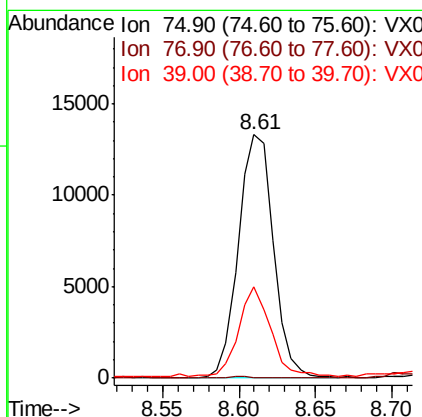
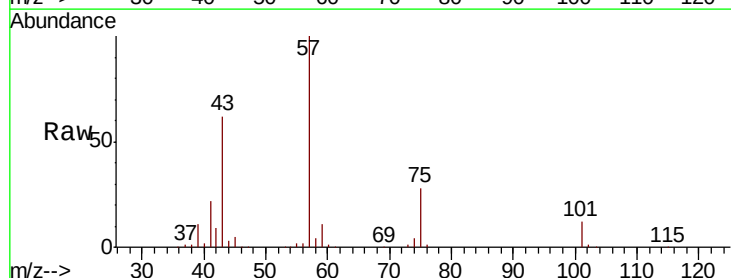
Instrument :
 MSVOA_X
 ClientSampleId :
 1S-N(1)

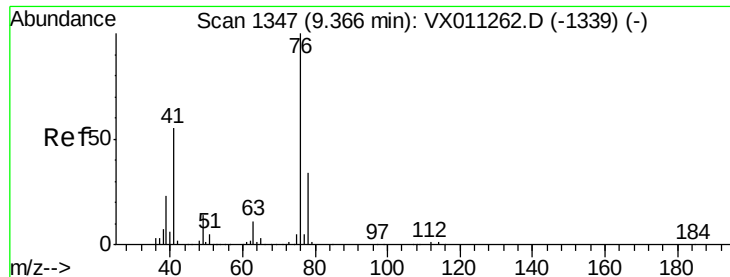
Tgt Ion: 75 Resp: 83
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 7.224 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011433.D
 Acq: 11 Aug 2019 15:52

Tgt Ion: 75 Resp: 21160
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 37.0 35.3 52.9

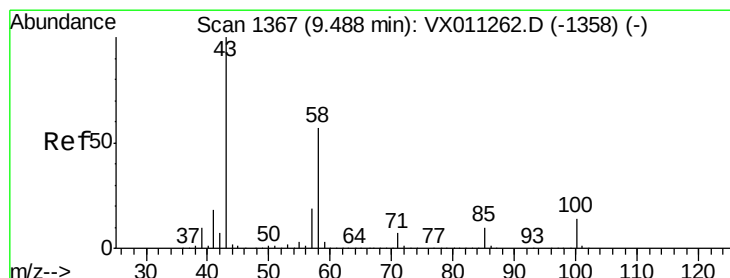
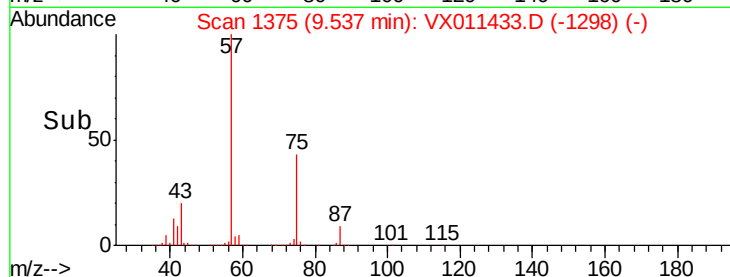
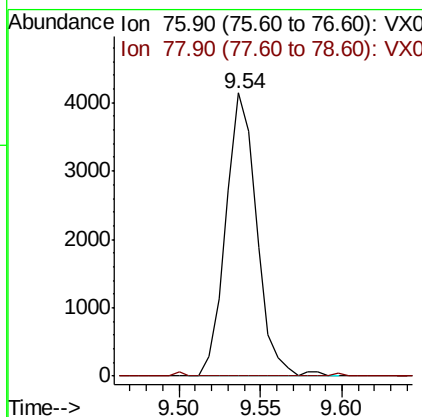
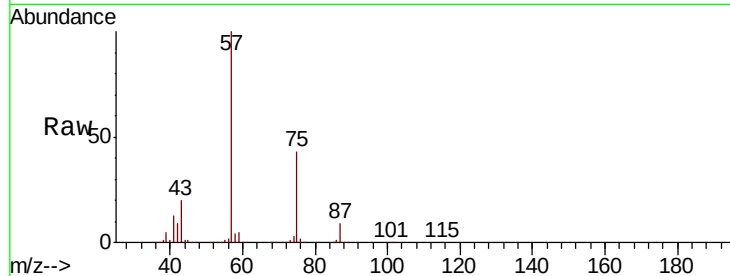




#57
 1,3-Dichloropropane
 Concen: 1.615 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011433.D
 Acq: 11 Aug 2019 15:52

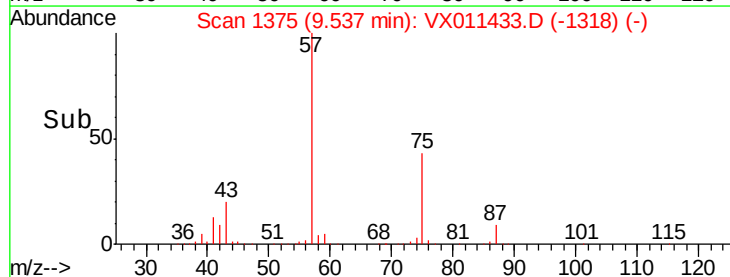
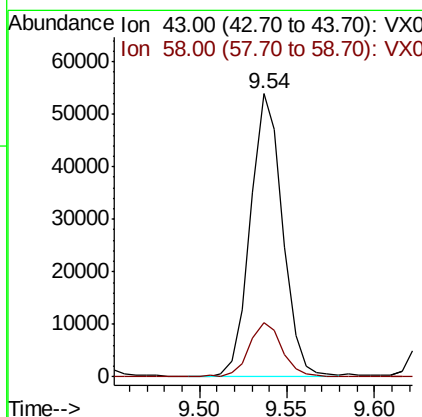
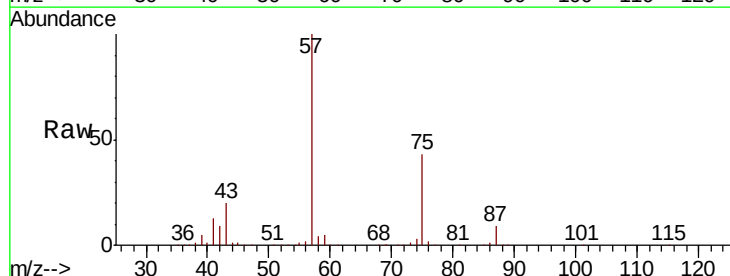
Instrument :
 MSVOA_X
 ClientSampleId :
 1S-N(1)

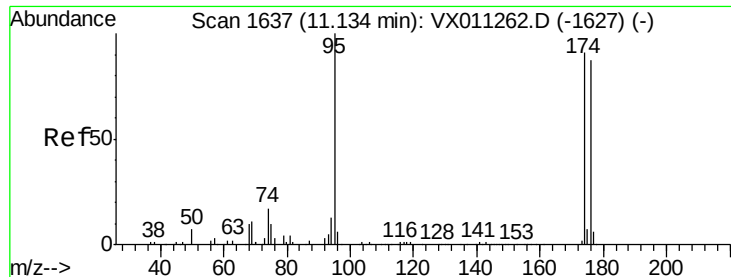
Tgt Ion: 76 Resp: 5439
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.6 40.0#



#59
 2-Hexanone
 Concen: 32.476 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.05 min
 Lab File: VX011433.D
 Acq: 11 Aug 2019 15:52

Tgt Ion: 43 Resp: 68343
 Ion Ratio Lower Upper
 43 100
 58 20.3 28.2 84.6#





#62

4-Bromofluorobenzene

Concen: 45.276 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011433.D

Acq: 11 Aug 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

1S-N(1)

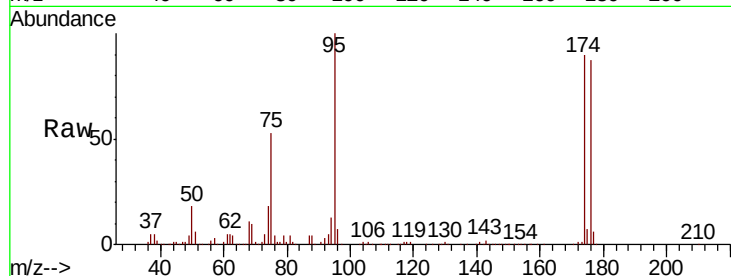
Tgt Ion: 95 Resp: 119778

Ion Ratio Lower Upper

95 100

174 91.1 0.0 191.2

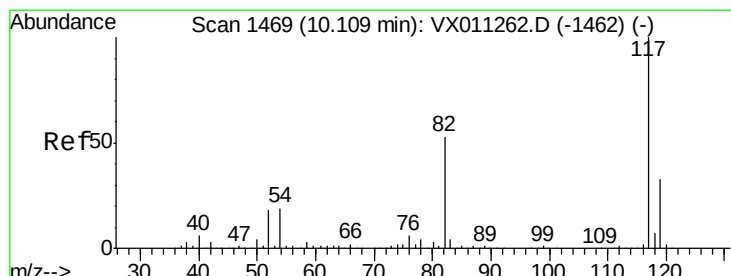
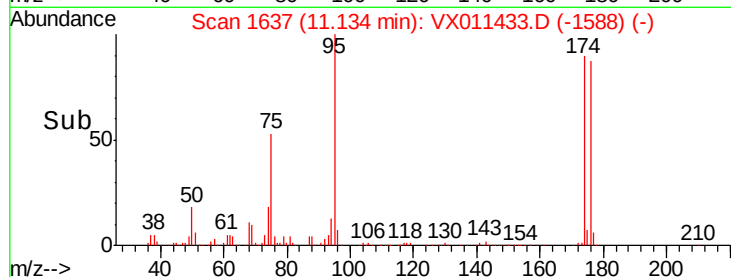
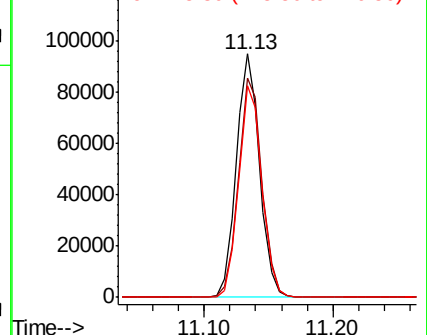
176 87.2 0.0 184.8



Abundance Ion 94.90 (94.60 to 95.60): VX011433.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011433.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011433.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011433.D

Acq: 11 Aug 2019 15:52

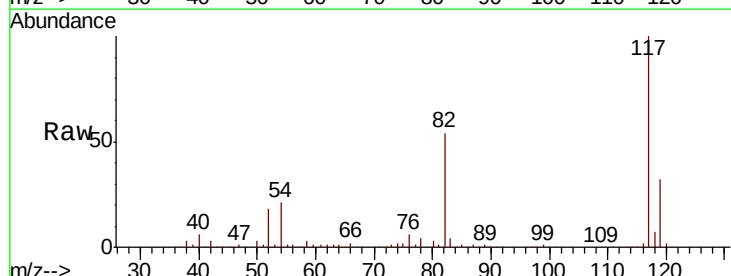
Tgt Ion: 117 Resp: 274827

Ion Ratio Lower Upper

117 100

82 54.4 42.2 63.2

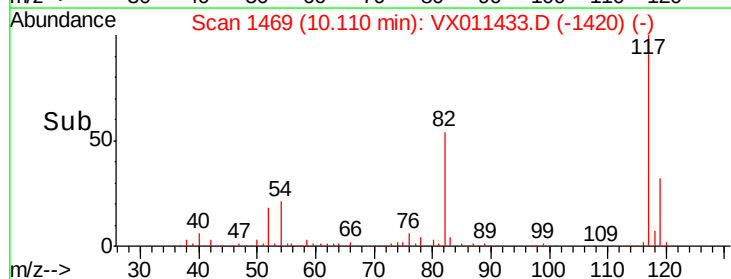
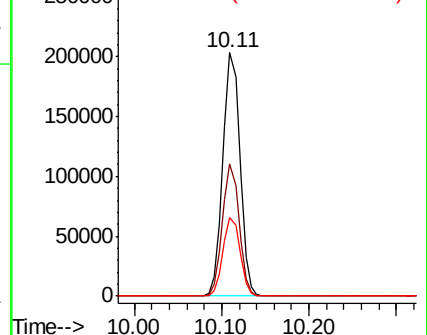
119 32.4 26.6 39.8

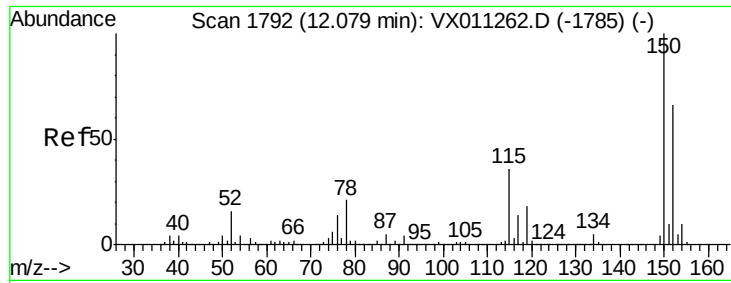


Abundance Ion 116.90 (116.60 to 117.60): VX011433.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011433.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011433.D (-1420) (-)



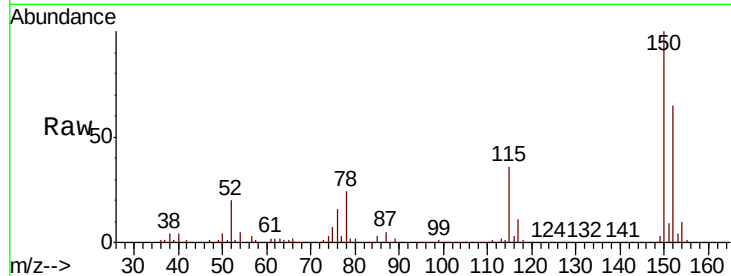


#72

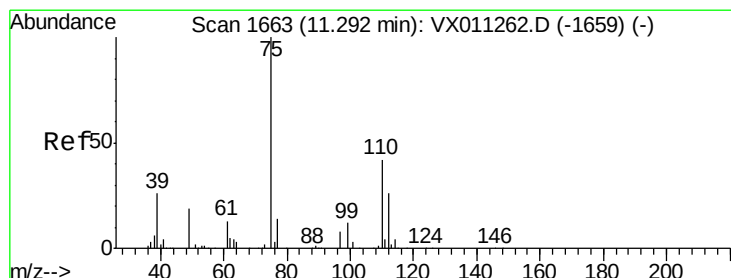
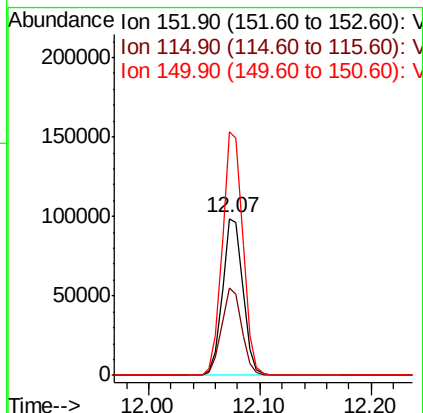
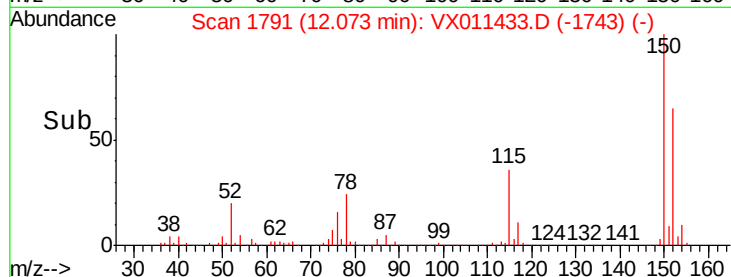
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011433.D
Acq: 11 Aug 2019 15:52

Instrument :
MSVOA_X
ClientSampleId :
1S-N(1)

Tgt Ion: 152 Resp: 124996
Ion Ratio Lower Upper
152 100
115 55.0 40.0 119.9
150 156.3 0.0 350.4



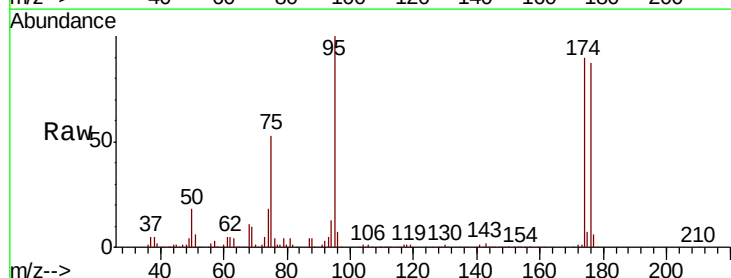
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



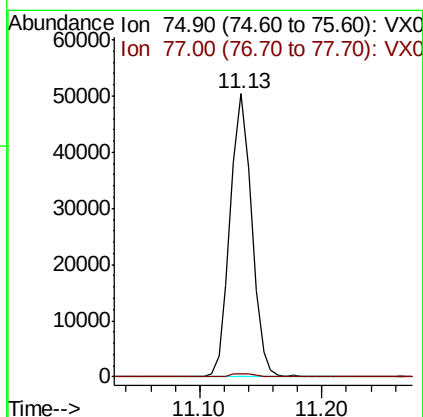
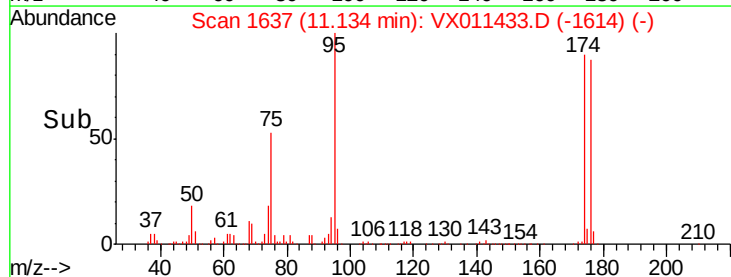
#76

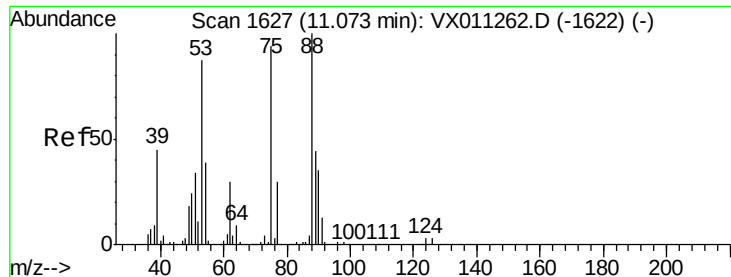
1,2,3-Trichloropropane
Concen: 27.067 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX011433.D
Acq: 11 Aug 2019 15:52

Tgt Ion: 75 Resp: 61614
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: 70.260 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011433.D

Acq: 11 Aug 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

1S-N(1)

Tgt Ion: 75 Resp: 61614

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

89 0.1 37.9 56.9#

