

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080519\
 Data File : VX011335.D
 Acq On : 05 Aug 2019 18:47
 Operator : JC/SP
 Sample : K4129-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 06 02:40:33 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	179527	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	262251	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244256	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	109146	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	88517	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
35) Dibromofluoromethane	5.49	113	79103	46.20	ug/l	0.00
Spiked Amount			Recovery	=	92.40%	
50) Toluene-d8	8.71	98	316084	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
62) 4-Bromofluorobenzene	11.13	95	99969	43.32	ug/l	0.00
Spiked Amount			Recovery	=	86.64%	

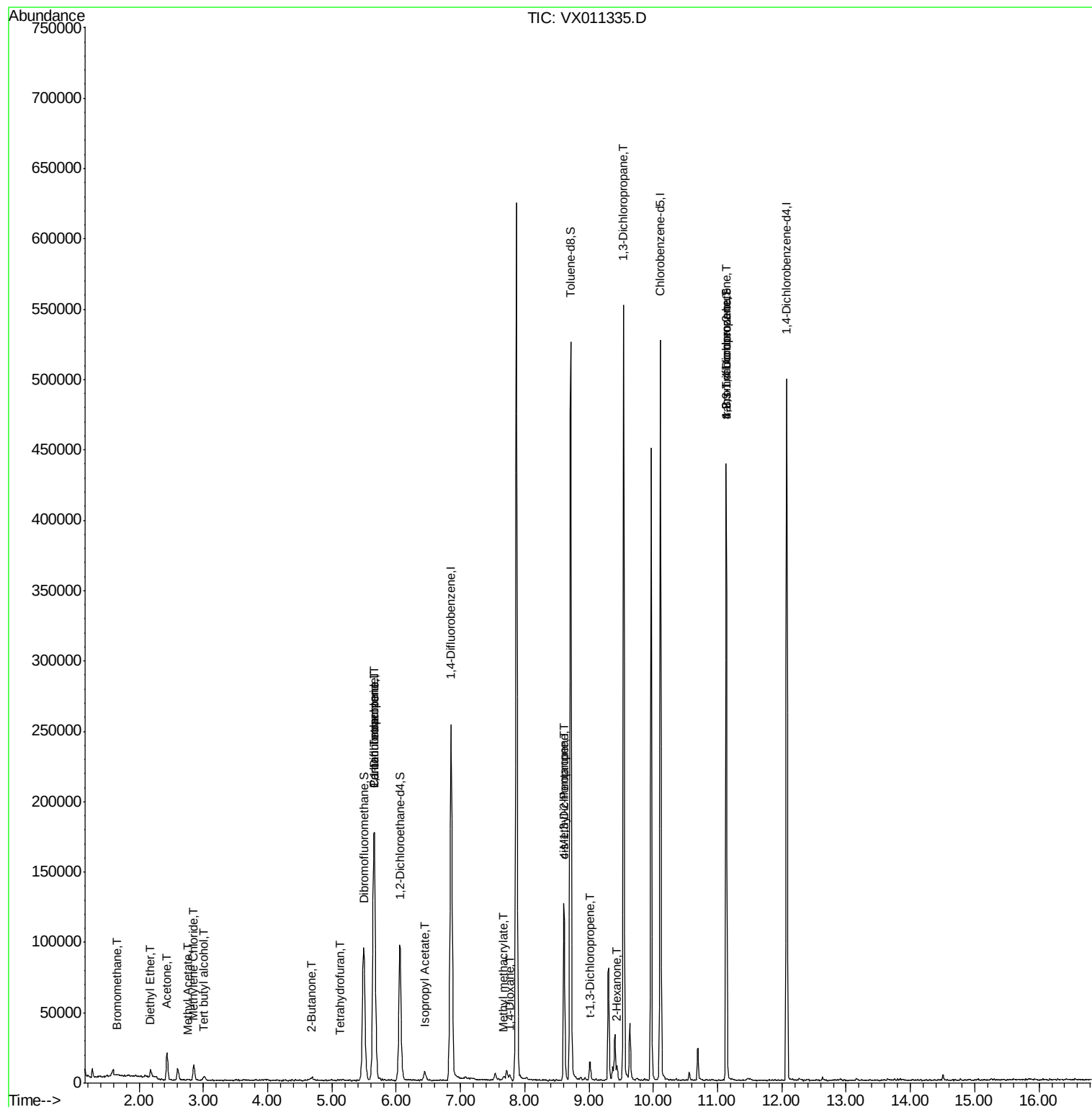
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	498	0.408	ug/l #	45
6) Chloroethane	1.68	64	203	Below Cal	#	72
8) Diethyl Ether	2.18	74	2043	1.879	ug/l	89
11) Tert butyl alcohol	3.01	59	1904	5.304	ug/l	95
16) Acetone	2.43	43	20521	23.847	ug/l	99
18) Methyl Acetate	2.77	43	993	0.505	ug/l #	65
20) Methylene Chloride	2.85	84	4790	2.542	ug/l	91
25) 2-Butanone	4.68	43	1251	1.022	ug/l #	83
29) Tetrahydrofuran	5.12	42	282	0.376	ug/l #	68
36) 1,1-Dichloropropene	5.66	75	11880	5.188	ug/l #	47
38) Carbon Tetrachloride	5.66	117	17080	7.414	ug/l #	14
43) Isopropyl Acetate	6.45	43	8541	2.326	ug/l	96
48) Methyl methacrylate	7.67	41	4222	2.443	ug/l #	10
49) 1,4-Dioxane	7.76	88	25	0.499	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	40827	17.228	ug/l #	49
53) t-1,3-Dichloropropene	9.01	75	25	2.848	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	20834	8.155	ug/l #	67
57) 1,3-Dichloropropane	9.54	76	4999	1.702	ug/l #	41
59) 2-Hexanone	9.44	43	5742	3.128	ug/l #	23
76) 1,2,3-Trichloropropane	11.13	75	51546	25.933	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	51546	67.505	ug/l #	10

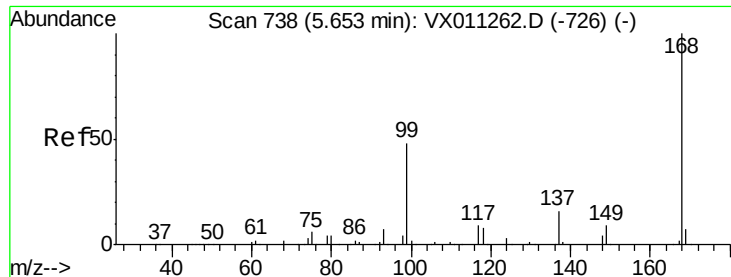
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX011335.D

Acq: 05 Aug 2019 18:47

Instrument :

MSVOA_X

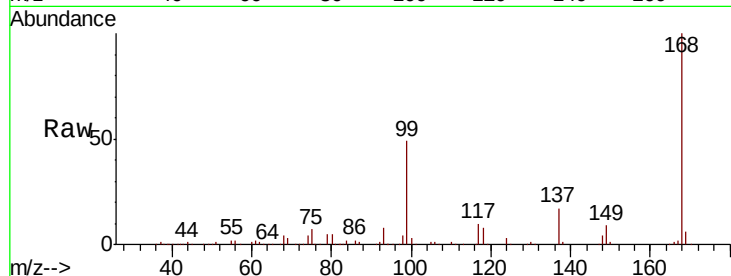
ClientSampleId :

Tot Ion:168 Resp: 179527

Ion Ratio Lower Upper

168 100

99 49.5 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

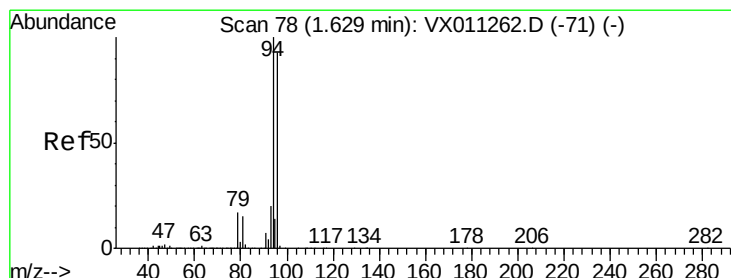
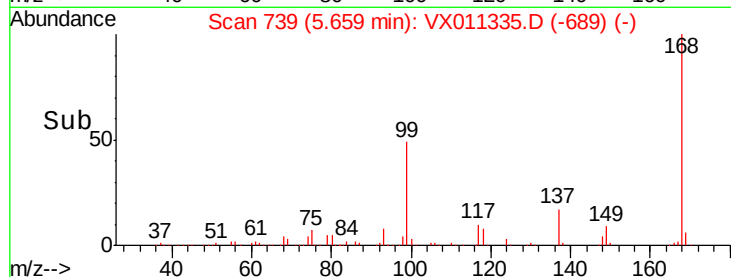
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.408 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.03 min

Lab File: VX011335.D

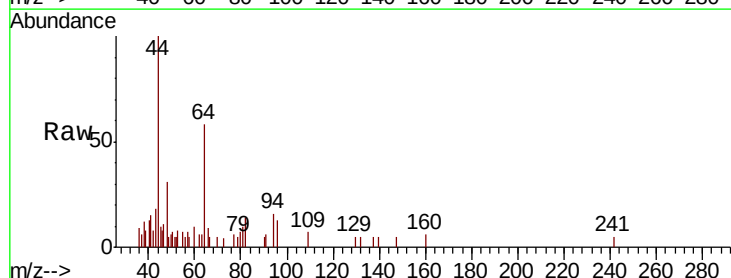
Acq: 05 Aug 2019 18:47

Tgt Ion: 94 Resp: 498

Ion Ratio Lower Upper

94 100

96 40.4 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

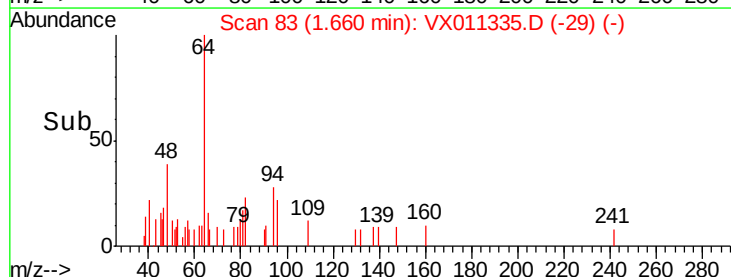
100

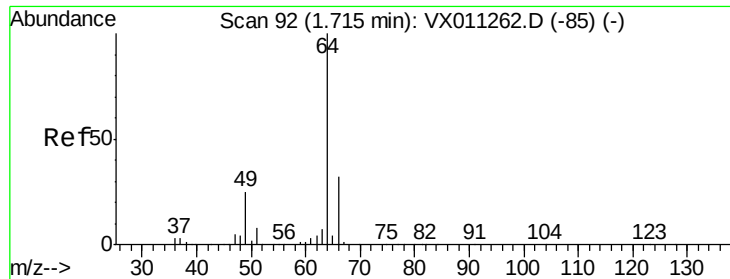
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX011335.D

Acq: 05 Aug 2019 18:47

Instrument :

MSVOA_X

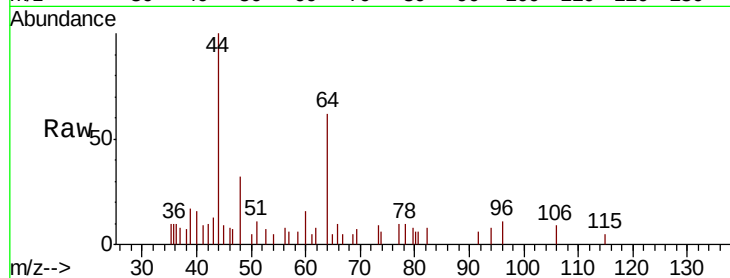
ClientSampleId :

Tot Ion: 64 Resp: 203

Ion Ratio Lower Upper

64 100

66 16.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.68

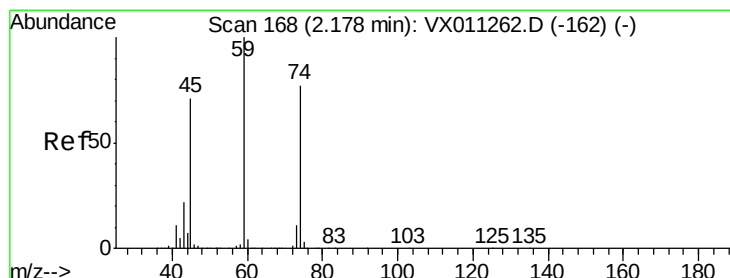
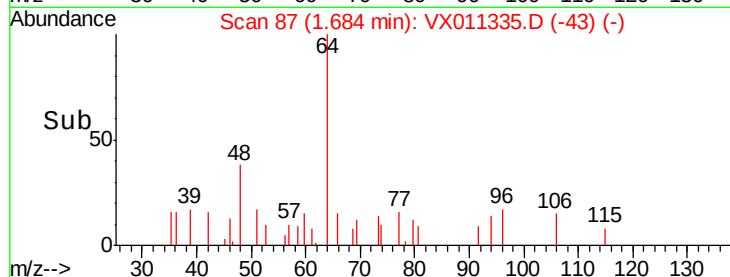
600

400

200

0

Time--> 1.66 1.67 1.68 1.69 1.70



#8

Diethyl Ether

Concen: 1.879 ug/l

RT: 2.18 min Scan# 168

Delta R.T. -0.00 min

Lab File: VX011335.D

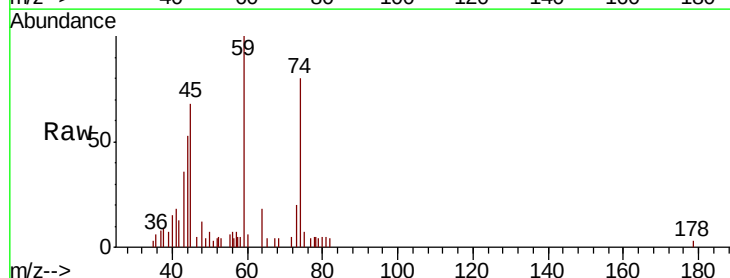
Acq: 05 Aug 2019 18:47

Tgt Ion: 74 Resp: 2043

Ion Ratio Lower Upper

74 100

45 81.5 46.1 138.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

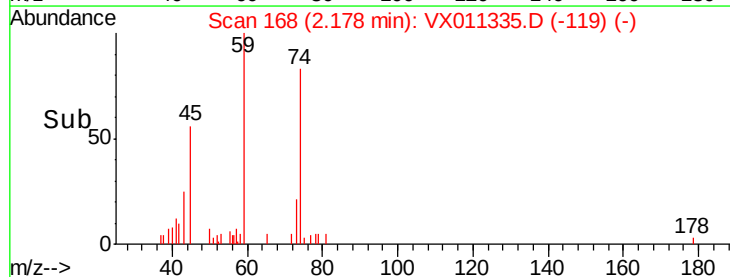
1500

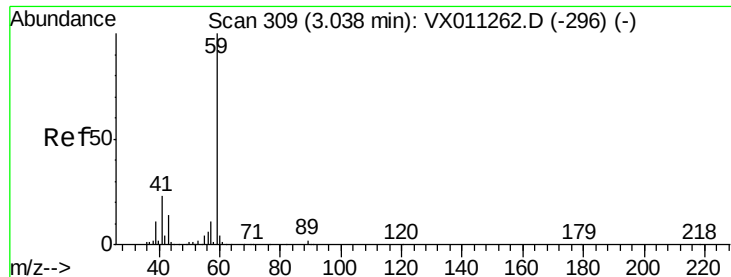
1000

500

0

Time--> 2.10 2.15 2.20 2.25

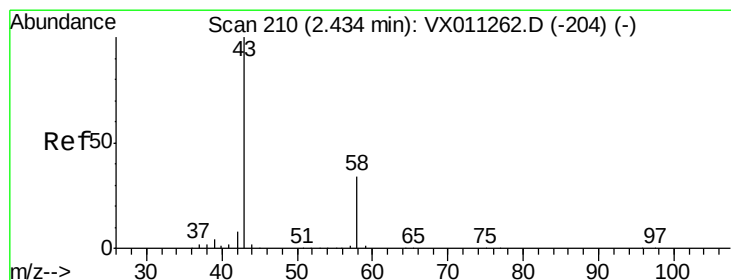
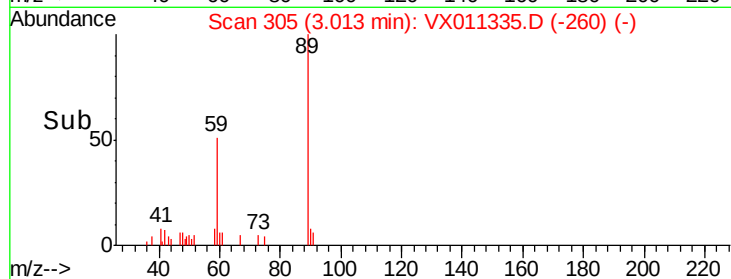
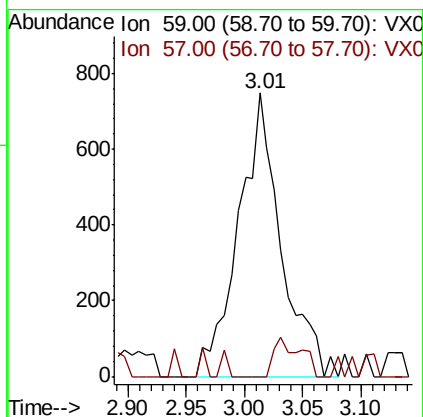
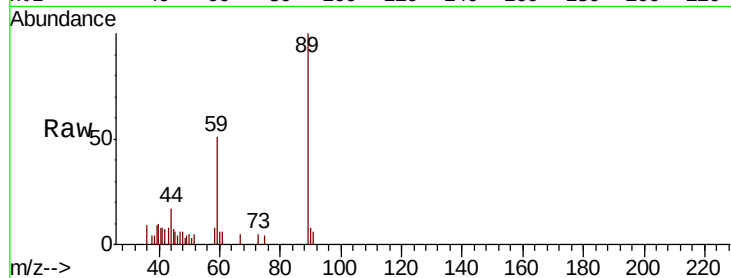




#11
Tert butyl alcohol
Concen: 5.304 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011335.D
Acq: 05 Aug 2019 18:47

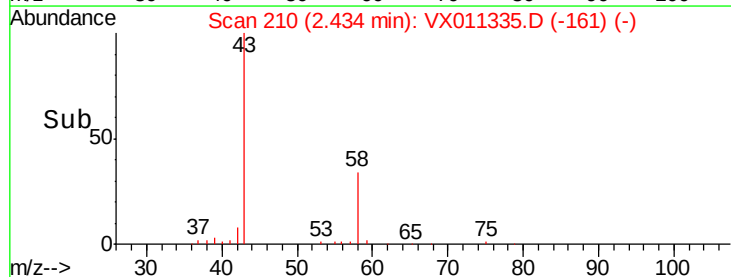
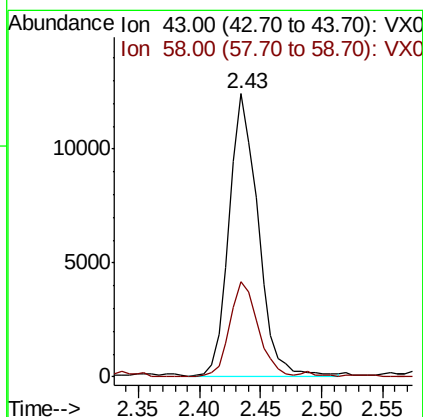
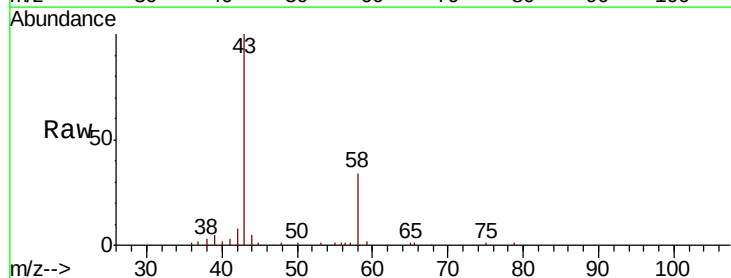
Instrument :
MSVOA_X
ClientSampled :

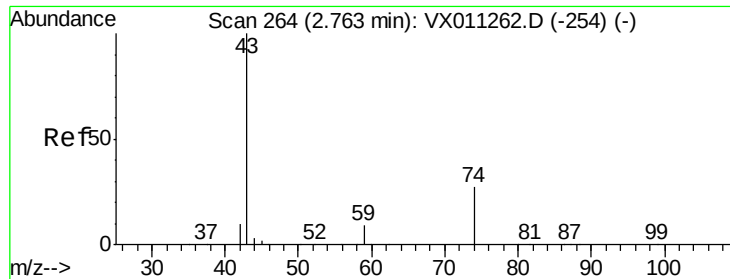
Tot Ion: 59 Resp: 1904
Ion Ratio Lower Upper
59 100
57 8.4 8.3 12.5



#16
Acetone
Concen: 23.847 ug/l
RT: 2.43 min Scan# 210
Delta R.T. -0.00 min
Lab File: VX011335.D
Acq: 05 Aug 2019 18:47

Tgt Ion: 43 Resp: 20521
Ion Ratio Lower Upper
43 100
58 33.5 27.4 41.0

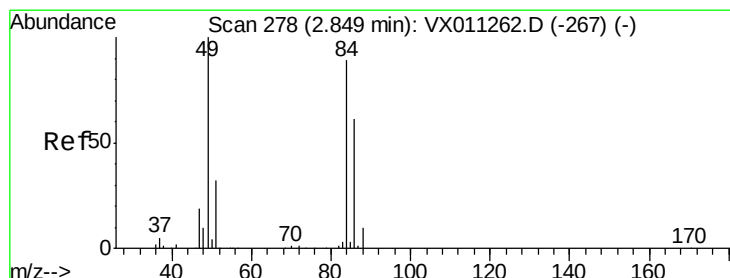
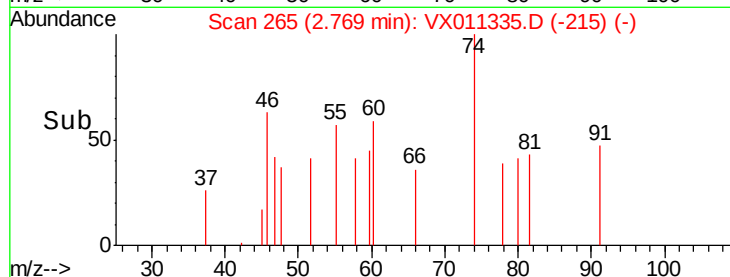
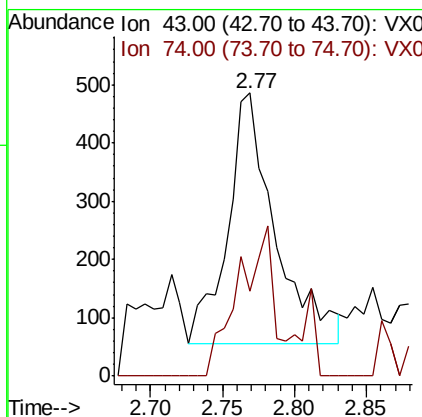
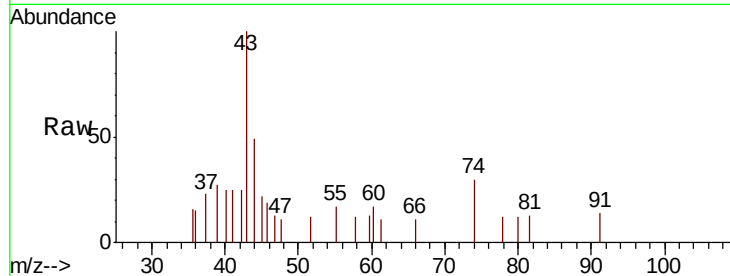




#18
Methyl Acetate
Concen: 0.505 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011335.D
Acq: 05 Aug 2019 18:47

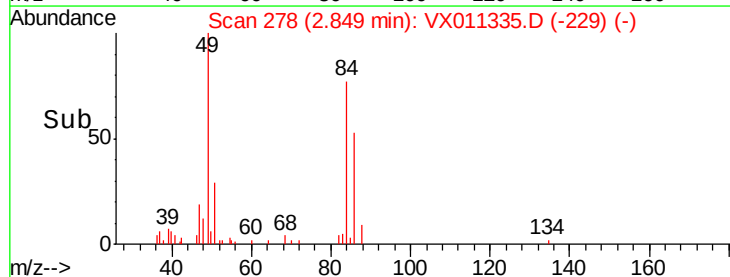
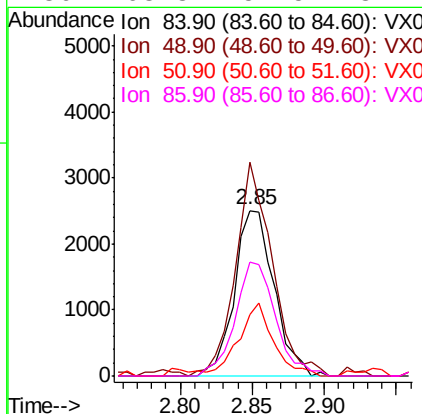
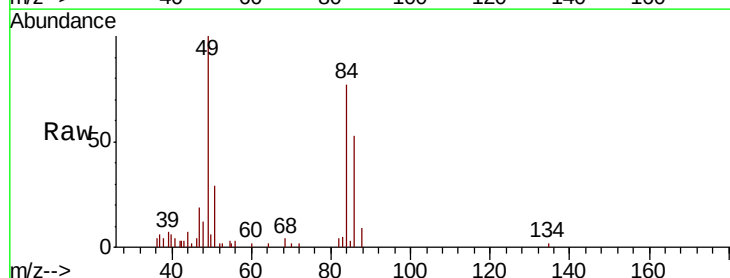
Instrument :
MSVOA_X
ClientSampleId :

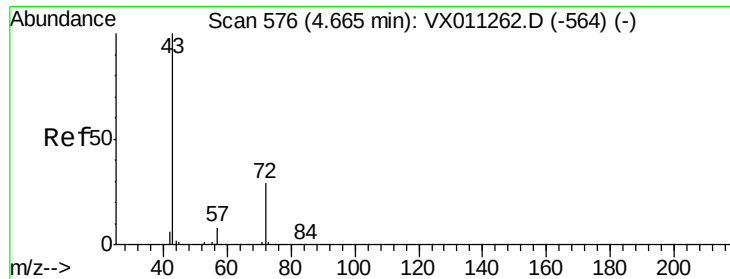
Tot Ion: 43 Resp: 993
Ion Ratio Lower Upper
43 100
74 44.3 21.0 31.6#



#20
Methylene Chloride
Concen: 2.542 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011335.D
Acq: 05 Aug 2019 18:47

Tgt Ion: 84 Resp: 4790
Ion Ratio Lower Upper
84 100
49 129.2 89.3 133.9
51 37.2 28.3 42.5
86 68.8 54.5 81.7





#25

2-Butanone

Concen: 1.022 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011335.D

Acq: 05 Aug 2019 18:47

Instrument :

MSVOA_X

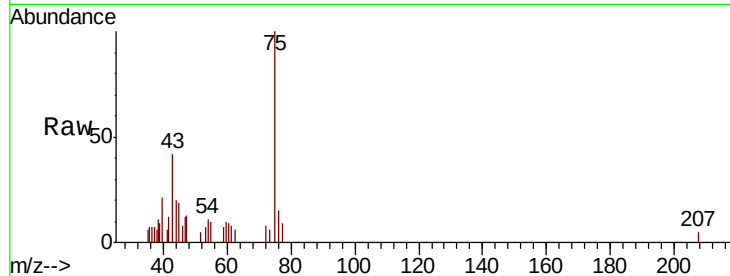
ClientSampled :

Tot Ion: 43 Resp: 1251

Ion Ratio Lower Upper

43 100

72 20.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.68

400

300

200

100

0

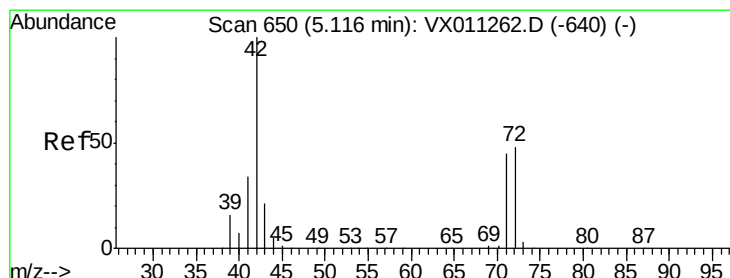
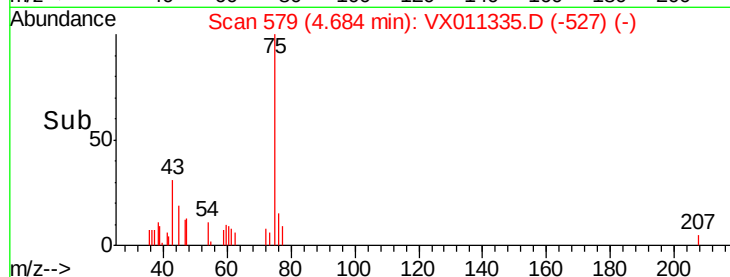
4.60

4.65

4.70

4.75

Time-->



#29

Tetrahydrofuran

Concen: 0.376 ug/l

RT: 5.12 min Scan# 651

Delta R.T. 0.01 min

Lab File: VX011335.D

Acq: 05 Aug 2019 18:47

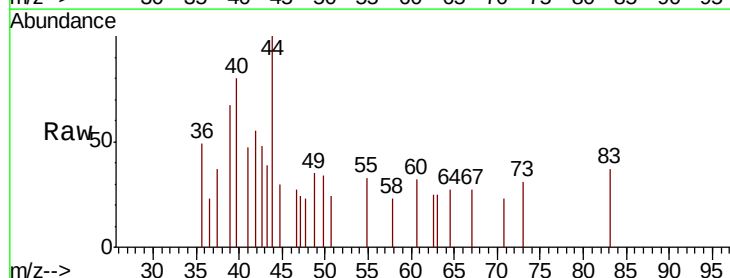
Tgt Ion: 42 Resp: 282

Ion Ratio Lower Upper

42 100

72 31.9 39.9 59.9#

71 70.9 36.9 55.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

300

250

200

150

100

50

0

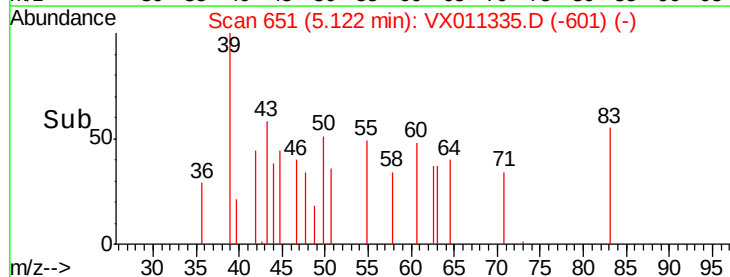
5.08

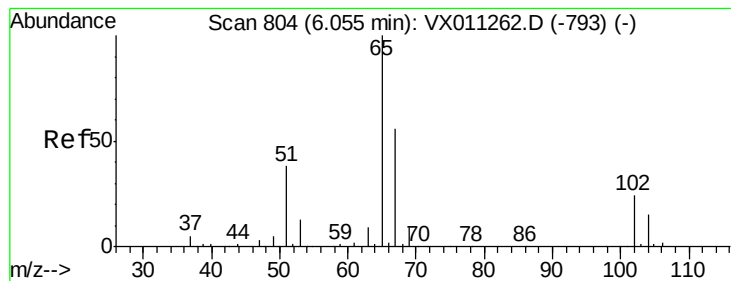
5.10

5.12

5.14

Time-->





#33

1,2-Dichloroethane-d4

Concen: 48.960 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011335.D

Acq: 05 Aug 2019 18:47

Instrument :

MSVOA_X

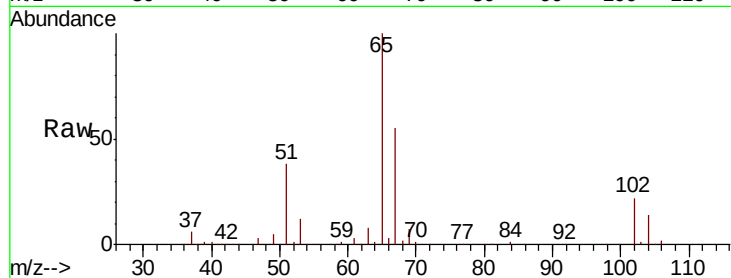
ClientSampleId :

Tot Ion: 65 Resp: 88517

Ion Ratio Lower Upper

65 100

67 53.1 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

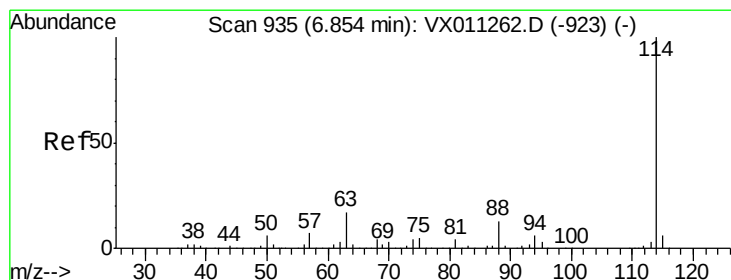
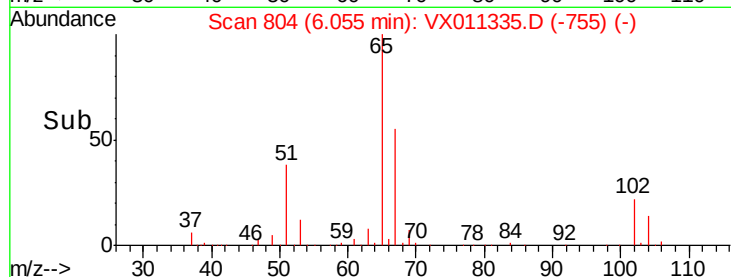
30000

20000

10000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011335.D

Acq: 05 Aug 2019 18:47

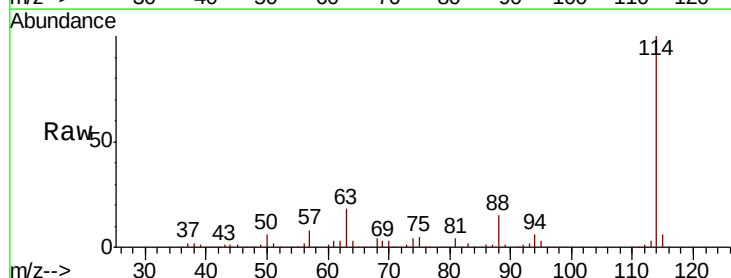
Tgt Ion: 114 Resp: 262251

Ion Ratio Lower Upper

114 100

63 17.6 0.0 34.0

88 15.0 0.0 26.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.85

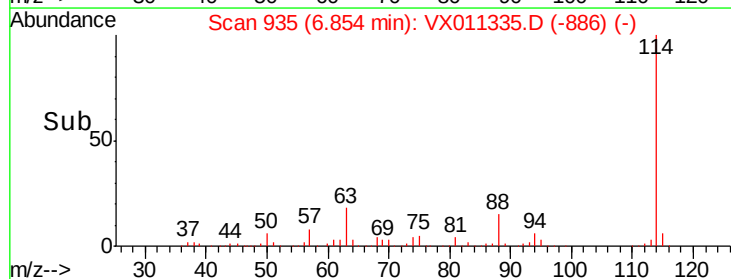
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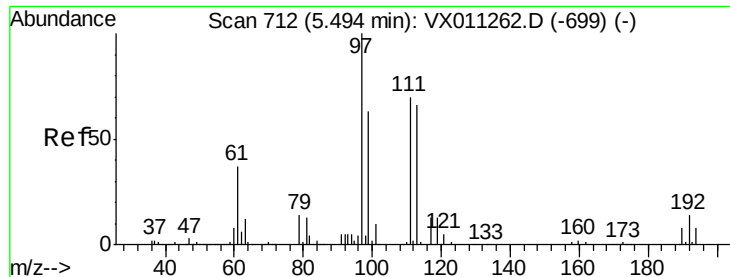
100000

50000

0

Time-->

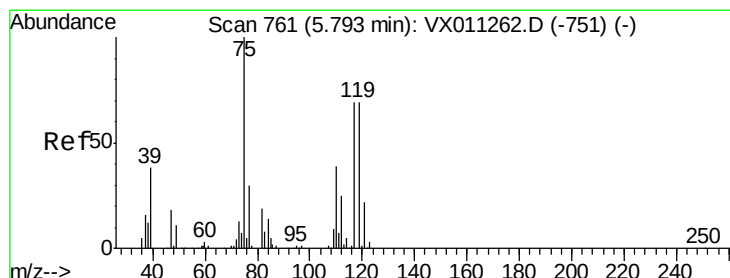
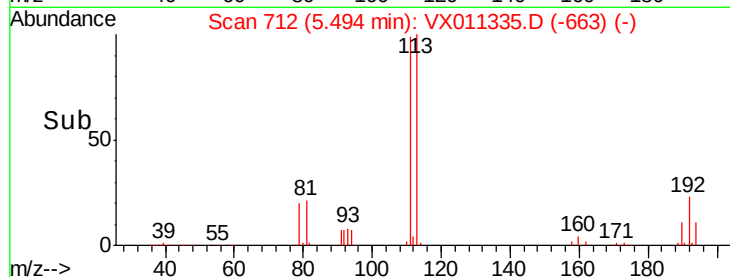
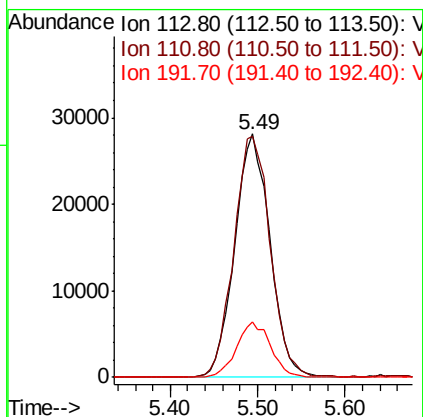
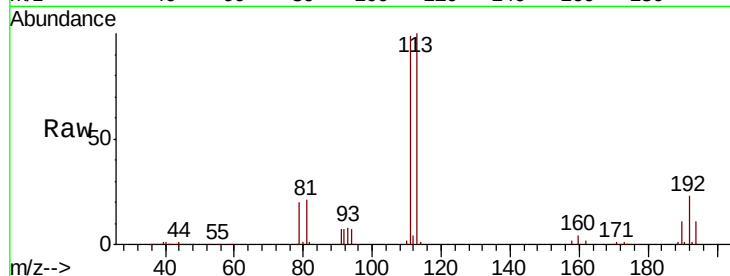




#35
 Dibromofluoromethane
 Concen: 46.200 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX011335.D
 Acq: 05 Aug 2019 18:47

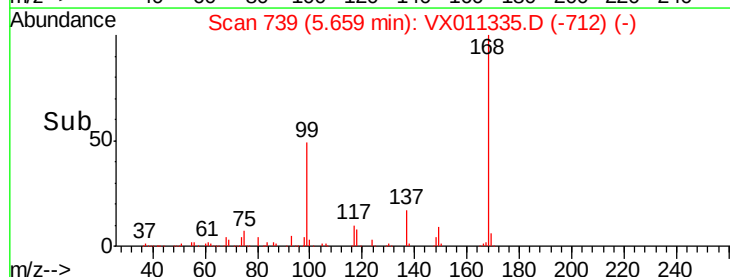
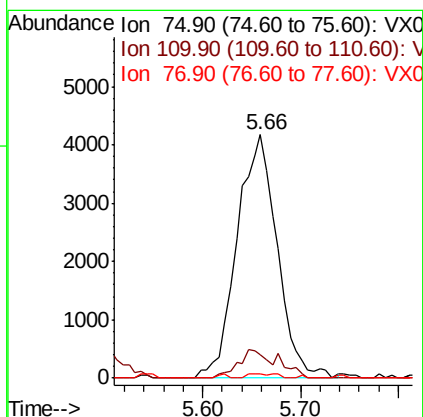
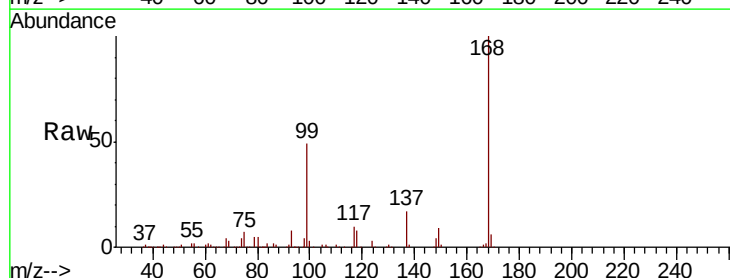
Instrument :
 MSVOA_X
 ClientSampleId :

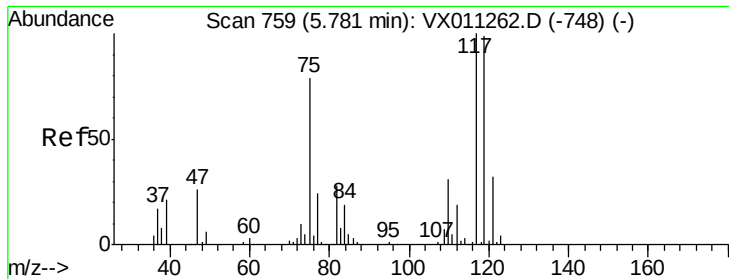
Tot Ion:113 Resp: 79103
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.9 122.9
 192 22.1 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 5.188 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011335.D
 Acq: 05 Aug 2019 18:47

Tgt Ion: 75 Resp: 11880
 Ion Ratio Lower Upper
 75 100
 110 8.3 20.0 59.9#
 77 0.8 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 7.414 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011335.D

Acq: 05 Aug 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

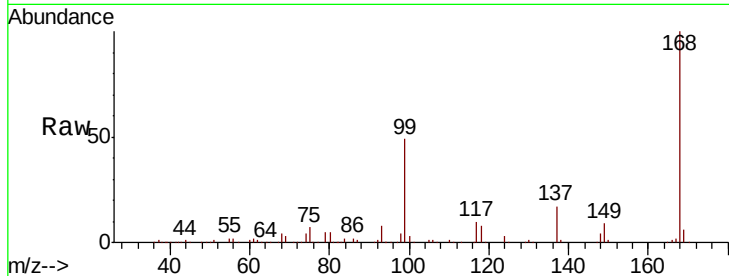
Tot Ion:117 Resp: 17080

Ion Ratio Lower Upper

117 100

119 3.8 79.0 118.4#

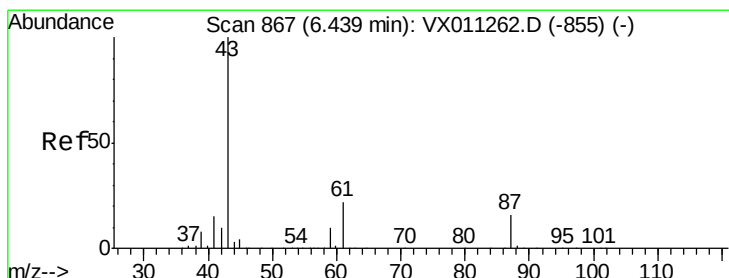
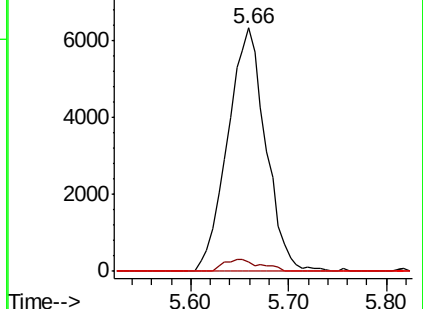
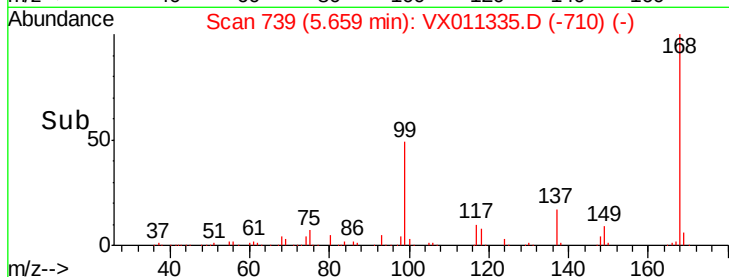
121 0.0 25.9 38.9#



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: 2.326 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.01 min

Lab File: VX011335.D

Acq: 05 Aug 2019 18:47

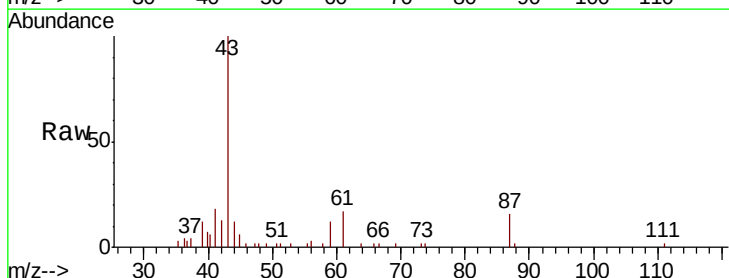
Tgt Ion: 43 Resp: 8541

Ion Ratio Lower Upper

43 100

61 23.3 16.5 24.7

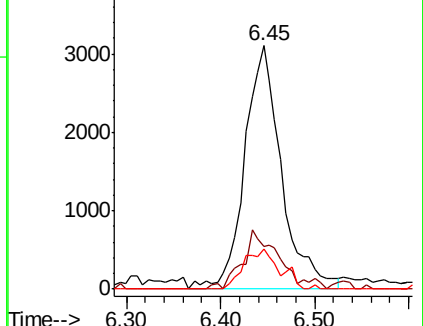
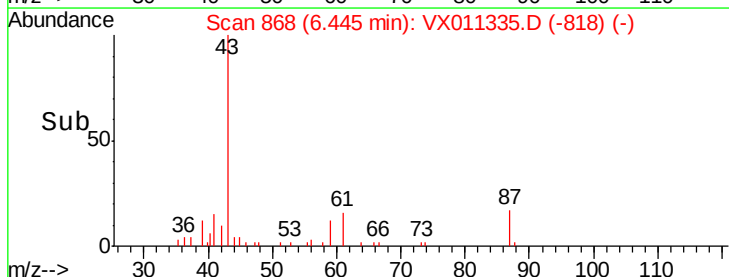
87 15.7 12.1 18.1

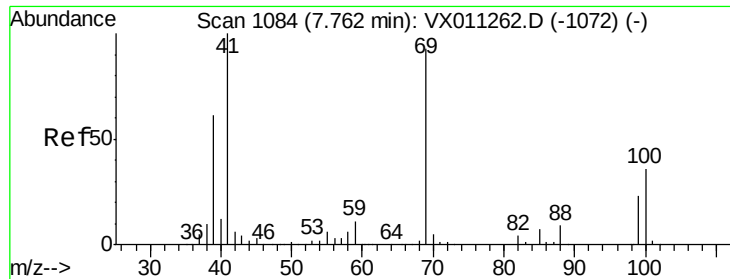


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

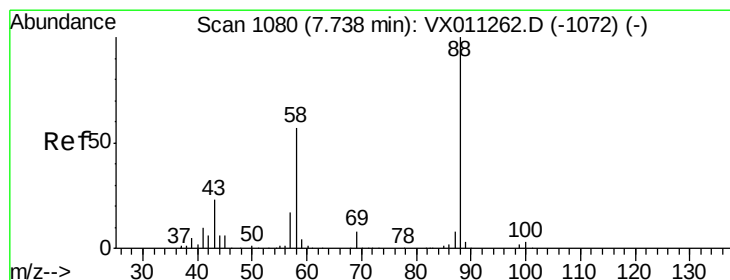
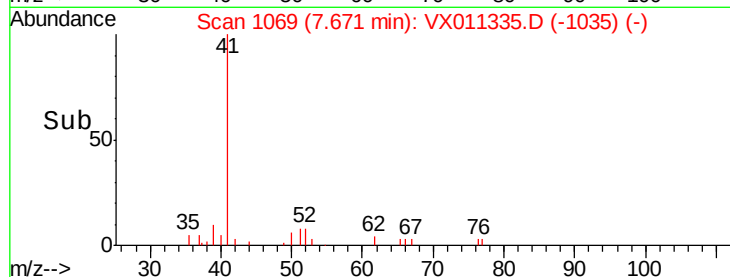
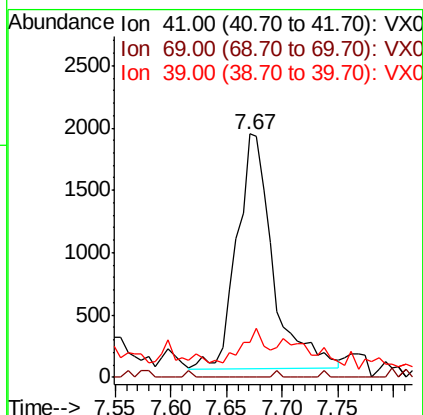
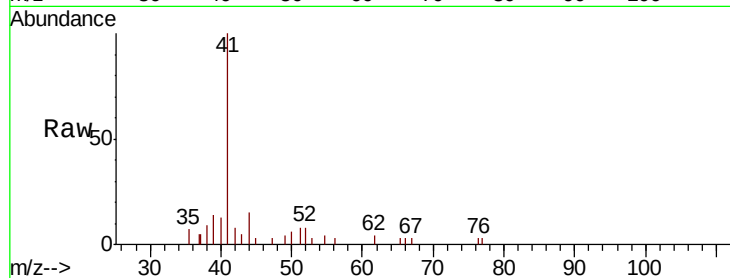




#48
Methvl methacrylate
Concen: 2.443 ug/l
RT: 7.67 min Scan# 1069
Delta R.T. -0.09 min
Lab File: VX011335.D
Acq: 05 Aug 2019 18:47

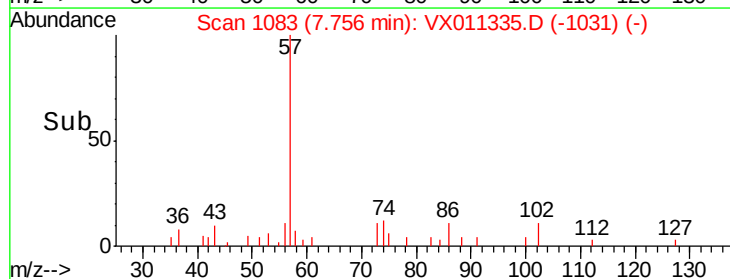
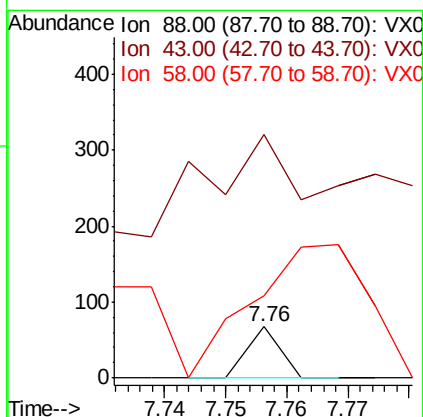
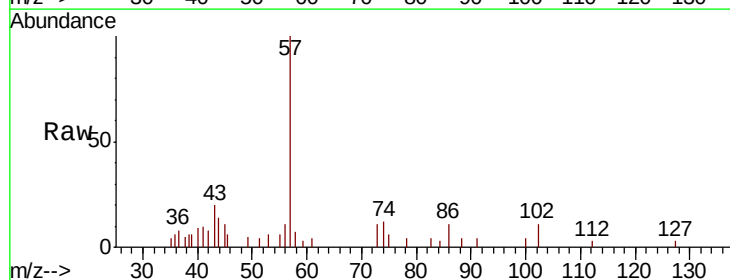
Instrument :
MSVOA_X
ClientSampled :

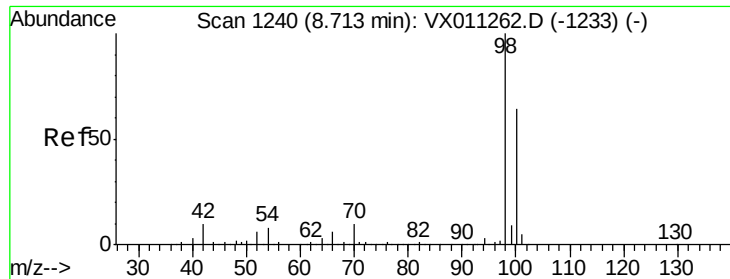
Tot Ion: 41 Resp: 4222
Ion Ratio Lower Upper
41 100
69 0.0 74.5 111.7#
39 0.0 48.6 72.8#



#49
1,4-Dioxane
Concen: 0.499 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.02 min
Lab File: VX011335.D
Acq: 05 Aug 2019 18:47

Tgt Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 920.0 47.8 71.8#

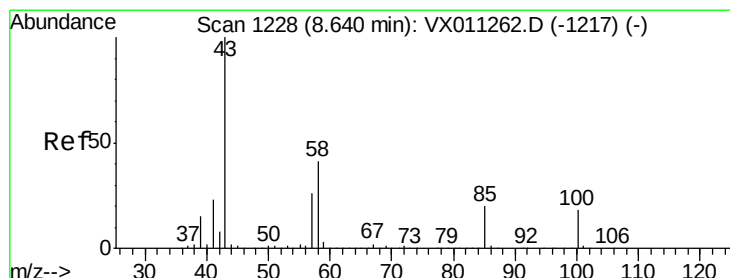
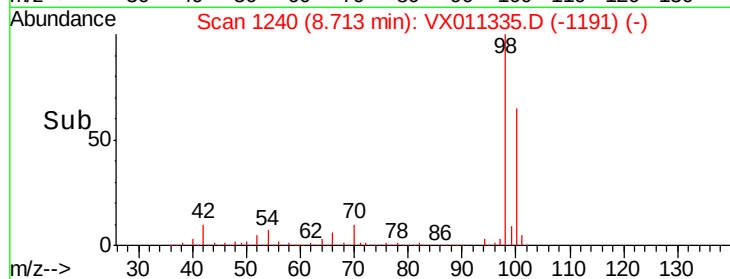
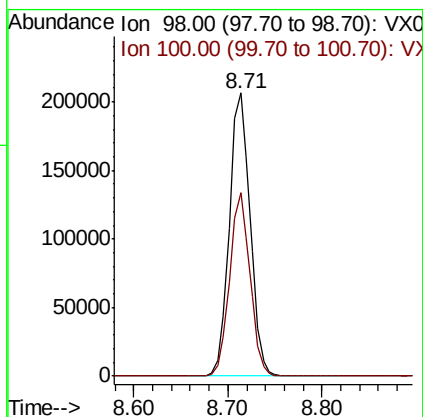
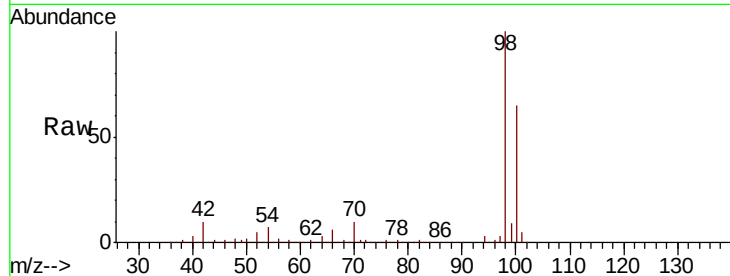




#50
Toluene-d8
Concen: 48.907 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011335.D
Acq: 05 Aug 2019 18:47

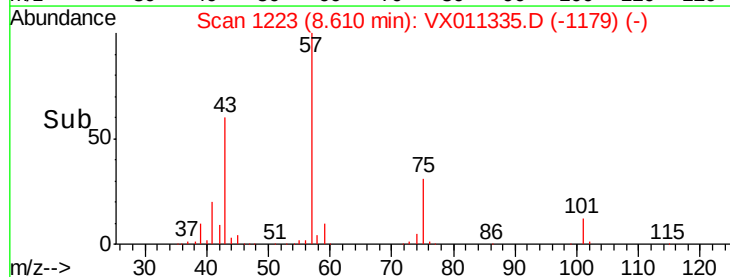
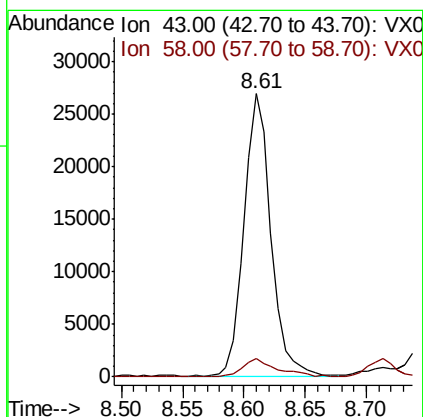
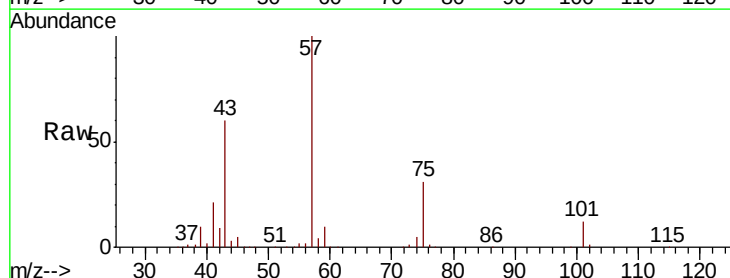
Instrument :
MSVOA_X
ClientSampled :

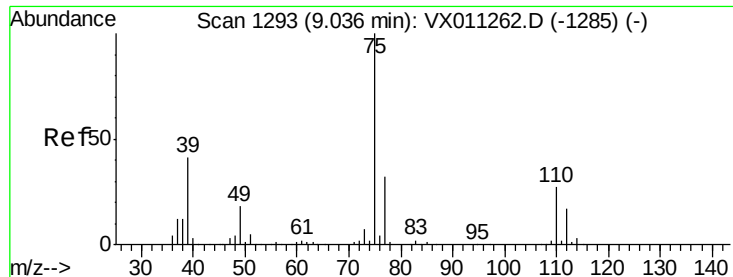
Tot Ion: 98 Resp: 316084
Ion Ratio Lower Upper
98 100
100 63.5 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 17.228 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011335.D
Acq: 05 Aug 2019 18:47

Tgt Ion: 43 Resp: 40827
Ion Ratio Lower Upper
43 100
58 8.6 32.3 48.5#

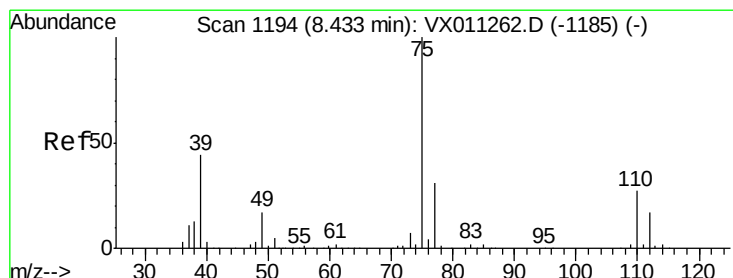
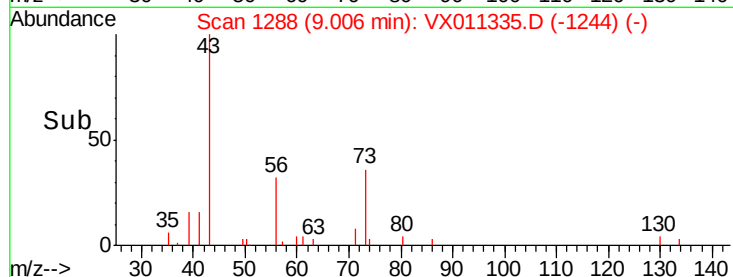
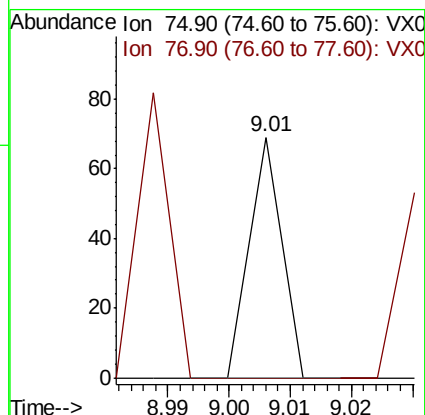
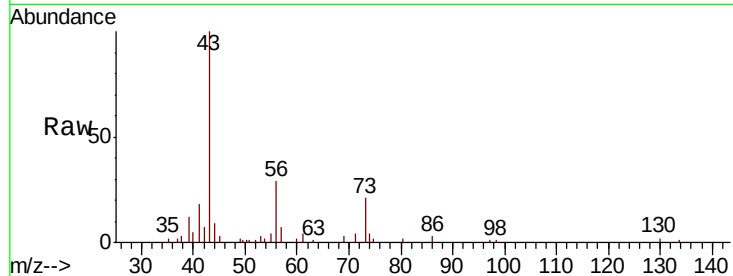




#53
 t-1,3-Dichloropropene
 Concen: 2.848 ug/l
 RT: 9.01 min Scan# 1288
 Delta R.T. -0.03 min
 Lab File: VX011335.D
 Acq: 05 Aug 2019 18:47

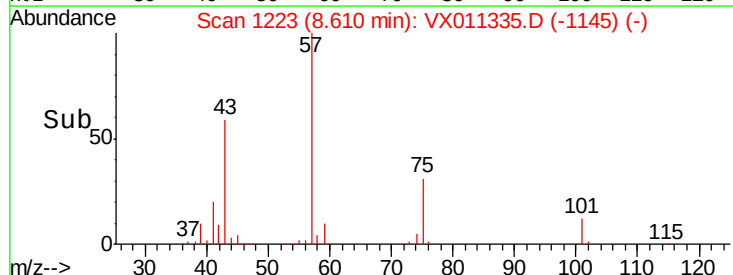
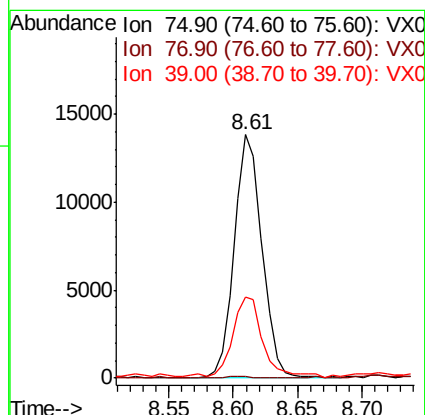
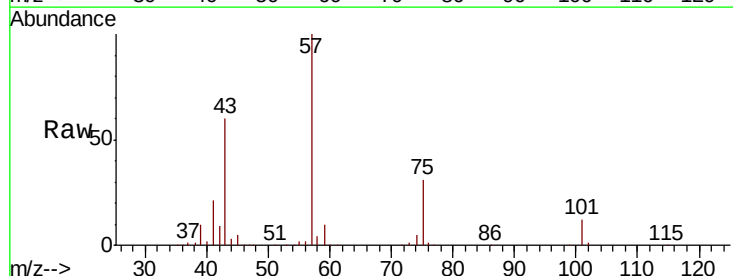
Instrument :
 MSVOA_X
 ClientSampleId :

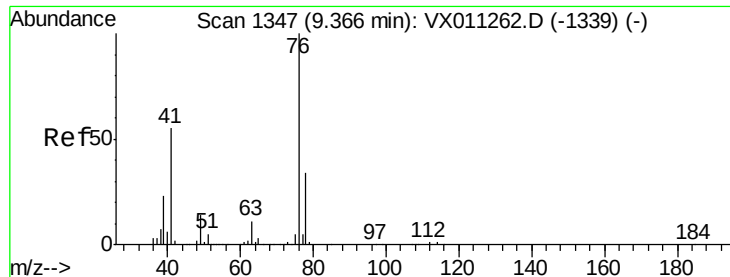
Tot Ion: 75 Resp: 25
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 8.155 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011335.D
 Acq: 05 Aug 2019 18:47

Tgt Ion: 75 Resp: 20834
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.0 37.6#
 39 32.7 35.3 52.9#





#57

1,3-Dichloropropane

Concen: 1.702 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011335.D

Acq: 05 Aug 2019 18:47

Instrument :

MSVOA_X

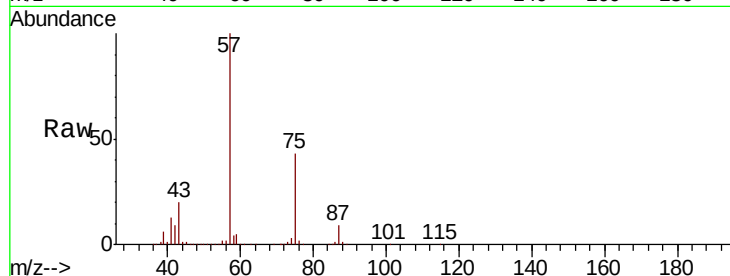
ClientSampleId :

Tot Ion: 76 Resp: 4999

Ion Ratio Lower Upper

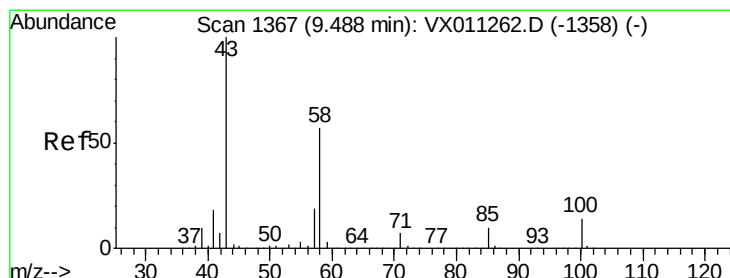
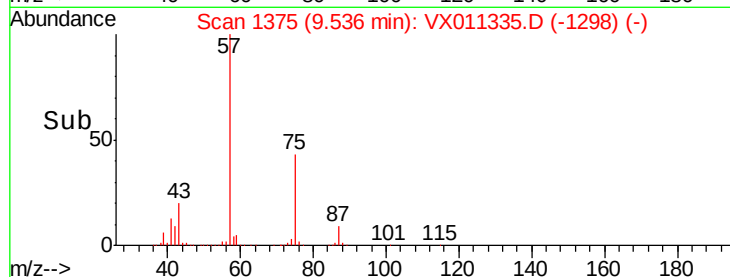
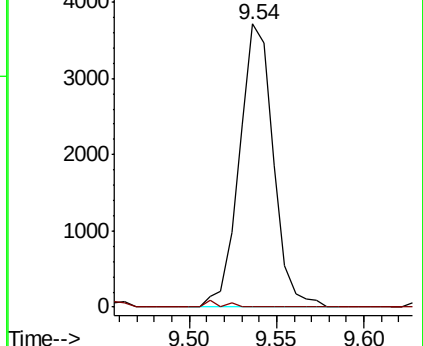
76 100

78 0.0 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: 3.128 ug/l

RT: 9.44 min Scan# 1359

Delta R.T. -0.05 min

Lab File: VX011335.D

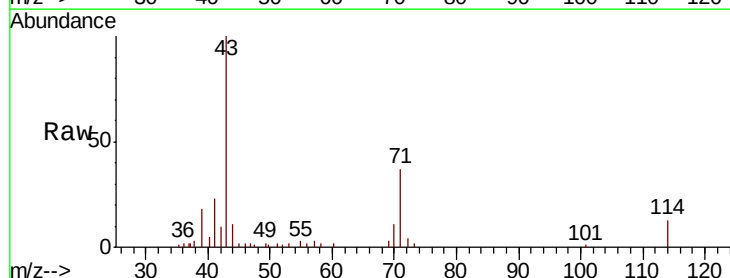
Acq: 05 Aug 2019 18:47

Tgt Ion: 43 Resp: 5742

Ion Ratio Lower Upper

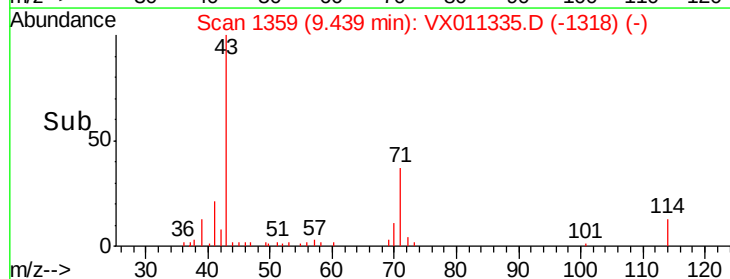
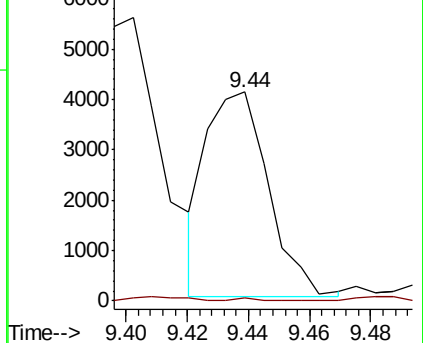
43 100

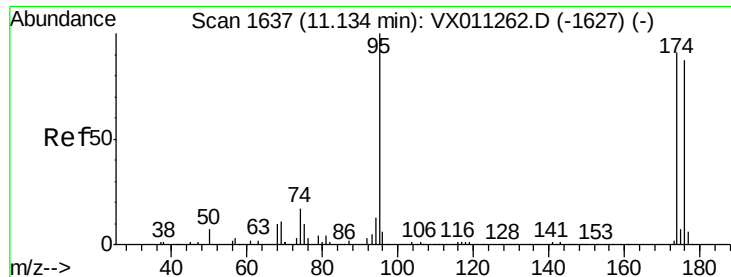
58 0.0 28.2 84.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

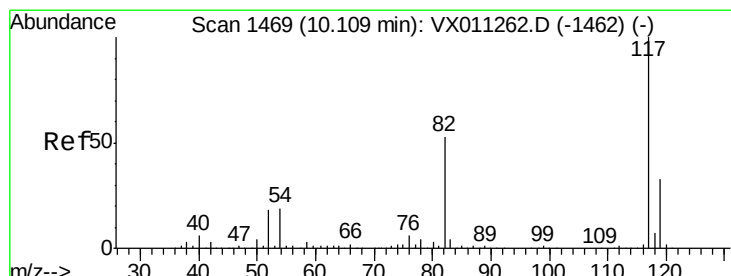
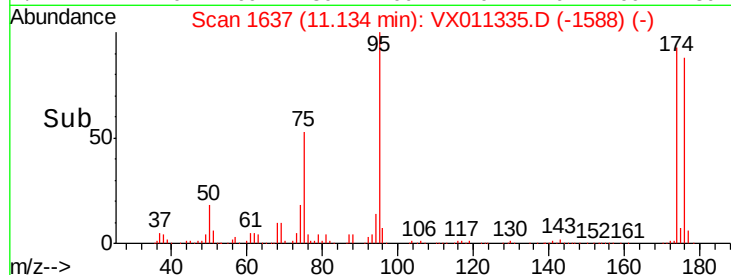
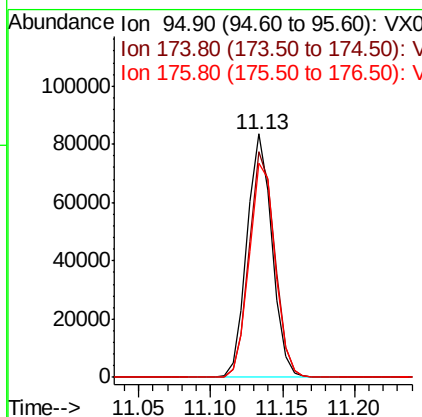
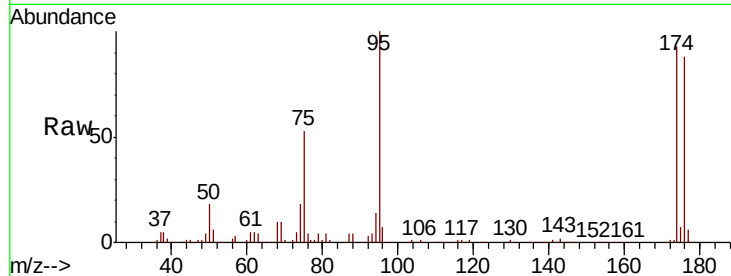




#62
4-Bromofluorobenzene
Concen: 43.324 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011335.D
Acq: 05 Aug 2019 18:47

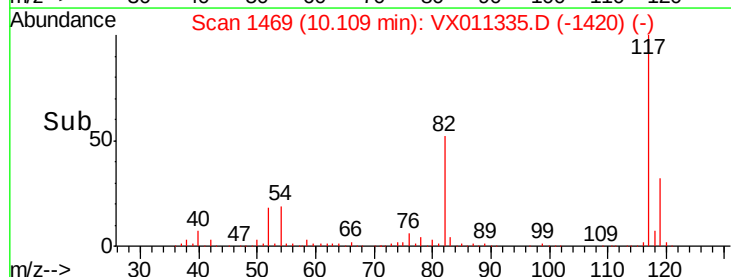
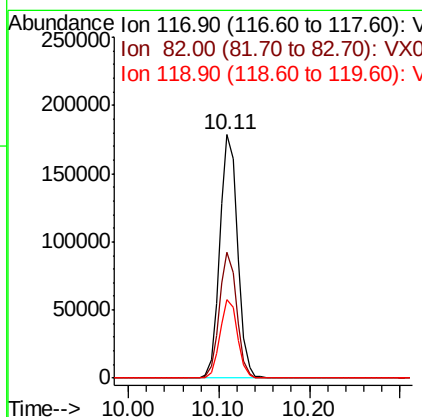
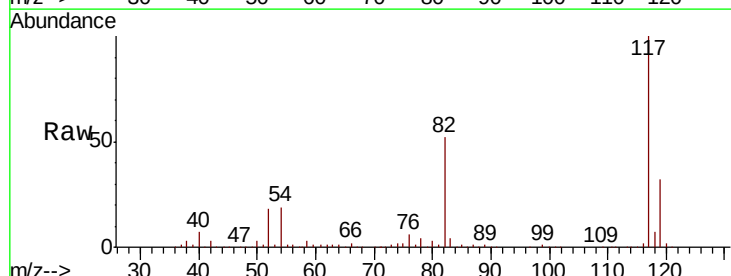
Instrument :
MSVOA_X
ClientSampleId :

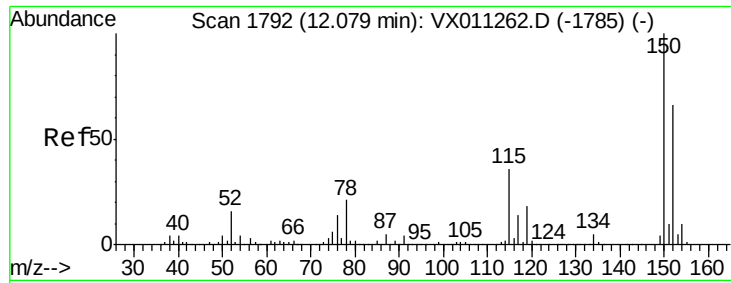
Tot Ion: 95 Resp: 99969
Ion Ratio Lower Upper
95 100
174 95.1 0.0 191.2
176 91.9 0.0 184.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011335.D
Acq: 05 Aug 2019 18:47

Tgt Ion: 117 Resp: 244256
Ion Ratio Lower Upper
117 100
82 51.8 42.2 63.2
119 32.1 26.6 39.8



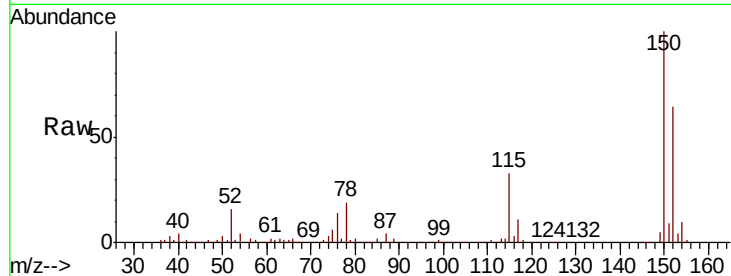


#72

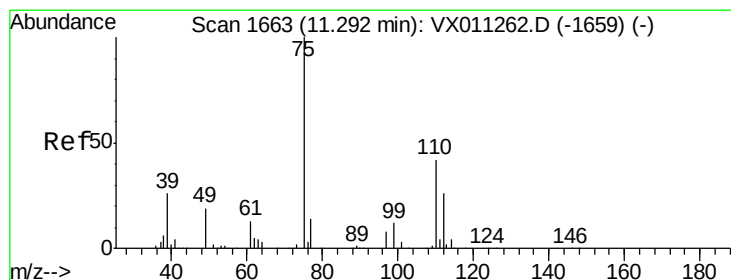
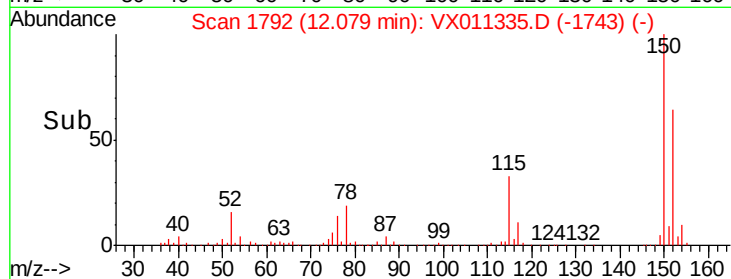
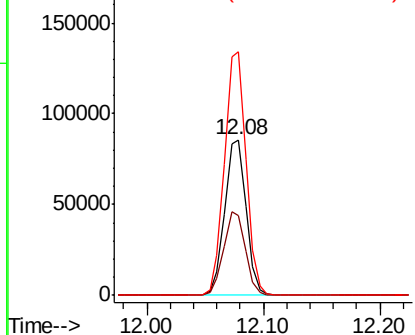
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011335.D
Acq: 05 Aug 2019 18:47

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 109146
Ion Ratio Lower Upper
152 100
115 53.8 40.0 119.9
150 157.5 0.0 350.4



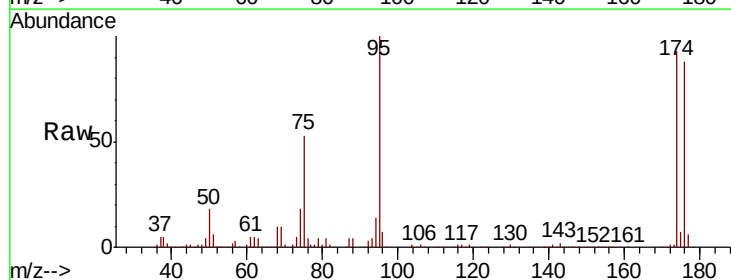
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



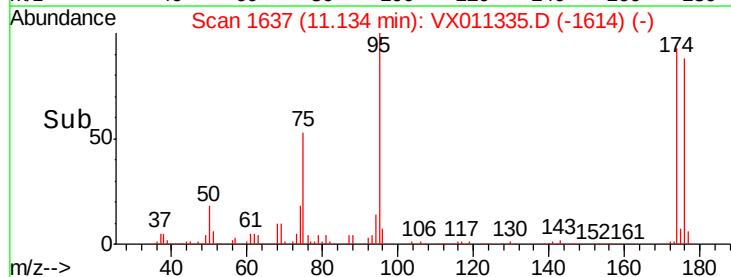
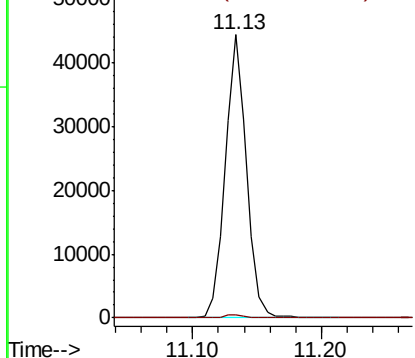
#76

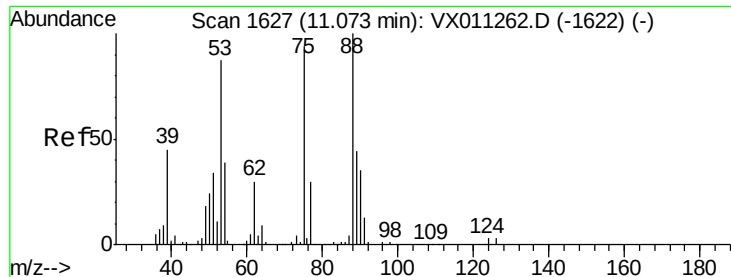
1,2,3-Trichloropropane
Concen: 25.933 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX011335.D
Acq: 05 Aug 2019 18:47

Tgt Ion: 75 Resp: 51546
Ion Ratio Lower Upper
75 100
77 1.4 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: 67.505 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011335.D

Acq: 05 Aug 2019 18:47

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 51546

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.4#

89 0.1 37.9 56.9#

