

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021919\
 Data File : VX007605.D
 Acq On : 19 Feb 2019 11:37
 Operator : JC/SP
 Sample : K1518-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CABLE-BRIDGE-FOUNDATION-D-2

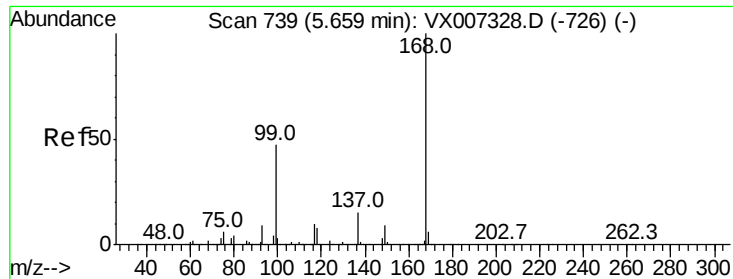
Quant Time: Feb 20 04:02:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	458006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	731908	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	710717	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	330943	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	256152	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	
35) Dibromofluoromethane	5.50	113	239708	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	
50) Toluene-d8	8.71	98	899979	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
62) 4-Bromofluorobenzene	11.13	95	313115	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	537	0.272	ug/l #	43
5) Bromomethane	1.65	94	610	Below Cal	#	58
8) Diethyl Ether	2.20	74	1113	0.374	ug/l	73
11) Tert butyl alcohol	3.07	59	969	0.963	ug/l #	73
13) Acrolein	2.29	56	183	0.388	ug/l #	1
15) Acrylonitrile	3.15	53	956	0.384	ug/l #	80
16) Acetone	2.45	43	19293	8.664	ug/l	99
17) Carbon Disulfide	2.58	76	2177	2.303	ug/l #	85
18) Methyl Acetate	2.79	43	2187	0.966	ug/l	90
20) Methylene Chloride	2.86	84	16679	3.300	ug/l	94
25) 2-Butanone	4.70	43	6017	1.899	ug/l	92
29) Tetrahydrofuran	5.17	42	2737	1.373	ug/l #	73
36) 1,1-Dichloropropene	5.67	75	30287	4.612	ug/l #	49
38) Carbon Tetrachloride	5.67	117	41136	6.457	ug/l #	18
43) Isopropyl Acetate	6.46	43	19056	1.860	ug/l	97
48) Methyl methacrylate	7.68	41	10530	2.055	ug/l #	14
49) 1,4-Dioxane	7.74	88	63	7.416	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	98935	14.667	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	46765	6.631	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	9268	1.120	ug/l #	49
59) 2-Hexanone	9.54	43	124961	23.807	ug/l #	52
71) Bromoform	10.92	173	168	4.063	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	150937	23.447	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	150937	70.573	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

Instrument :

MSVOA_X

ClientSampleId :

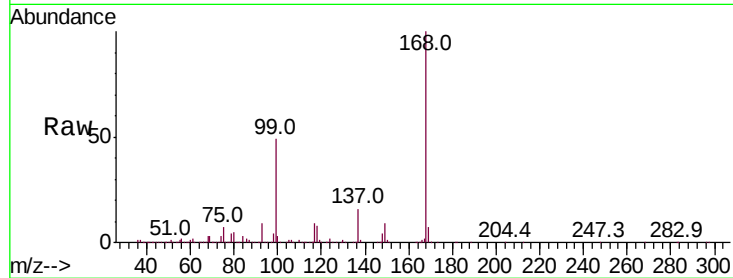
CABLE-BRIDGE-FOUNDATION-D-2

Tot Ion:168 Resp: 458006

Ion Ratio Lower Upper

168 100

99 49.3 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

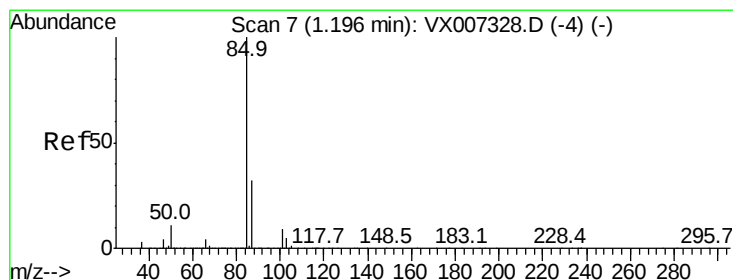
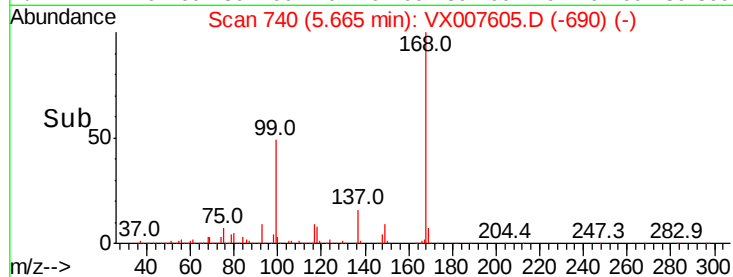
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.272 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.02 min

Lab File: VX007605.D

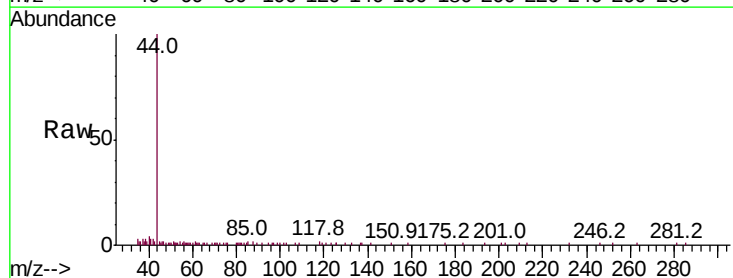
Acq: 19 Feb 2019 11:37

Tgt Ion: 85 Resp: 537

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.21

250

200

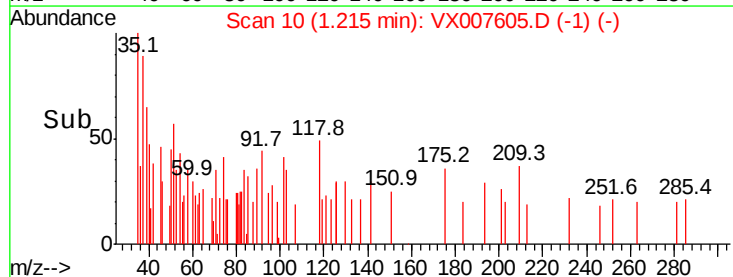
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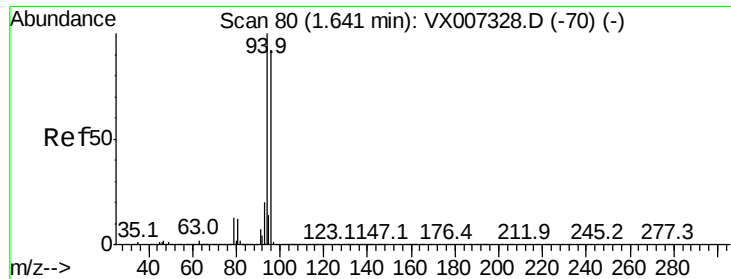
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

Instrument :

MSVOA_X

ClientSampleId :

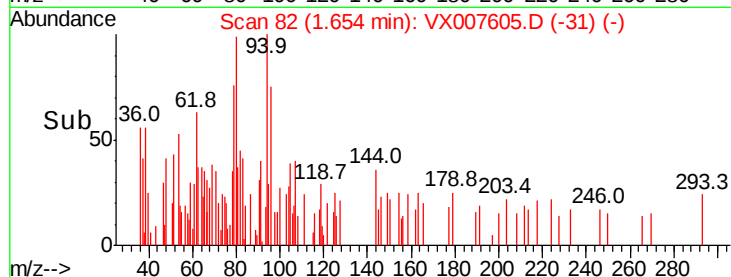
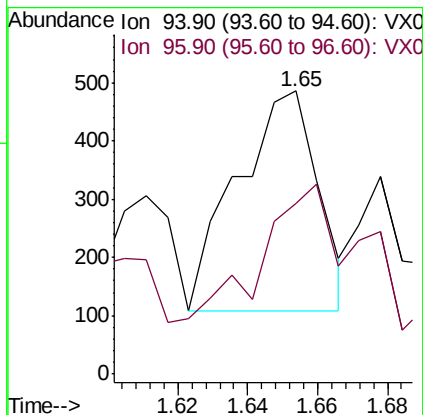
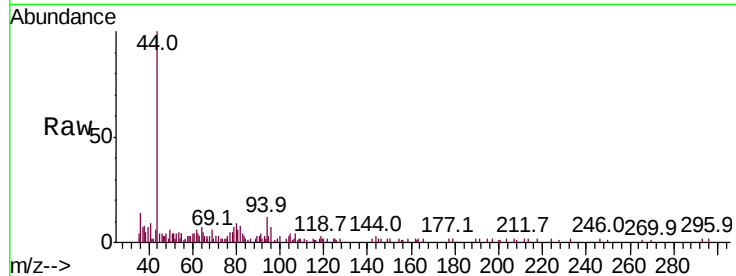
CABLE-BRIDGE-FOUNDATION-D-2

Tot Ion: 94 Resp: 610

Ion Ratio Lower Upper

94 100

96 51.9 73.9 110.9#



#8

Diethyl Ether

Concen: 0.374 ug/l

RT: 2.20 min Scan# 171

Delta R.T. 0.01 min

Lab File: VX007605.D

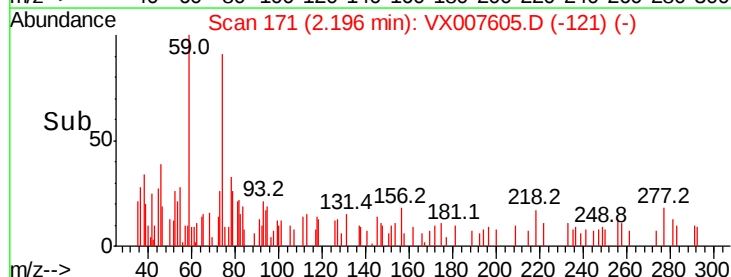
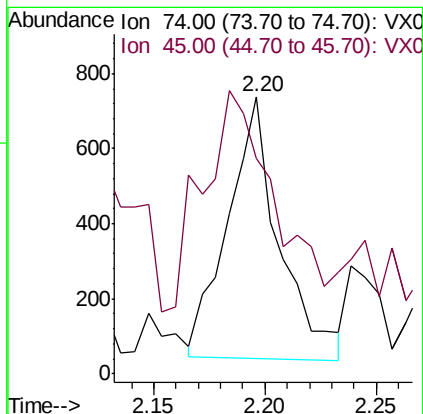
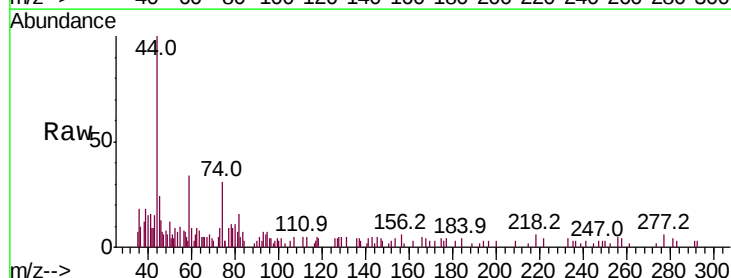
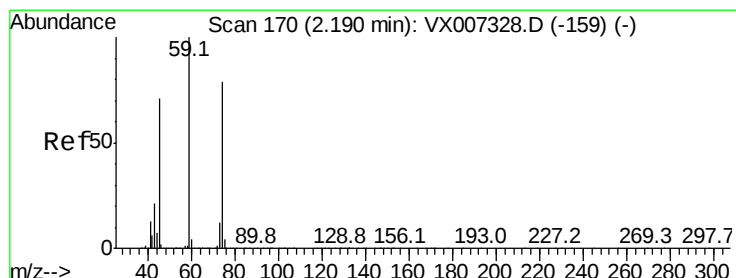
Acq: 19 Feb 2019 11:37

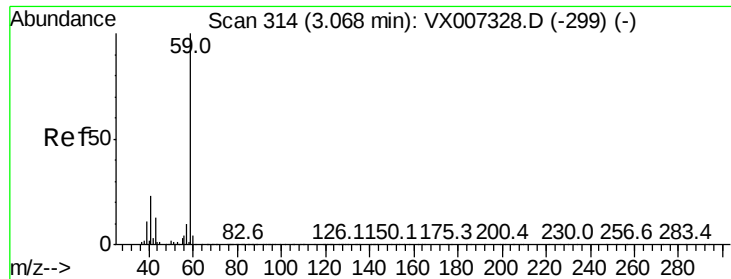
Tgt Ion: 74 Resp: 1113

Ion Ratio Lower Upper

74 100

45 117.0 45.7 137.1



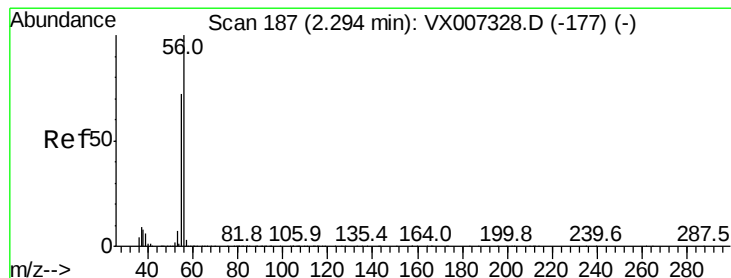
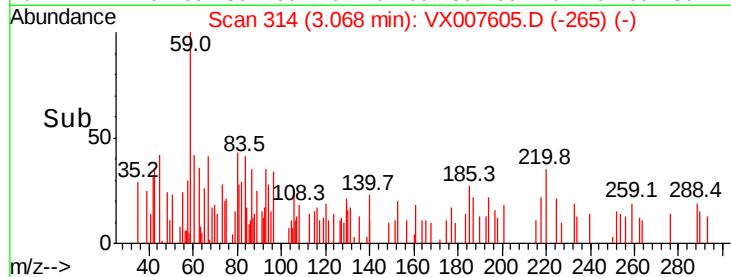
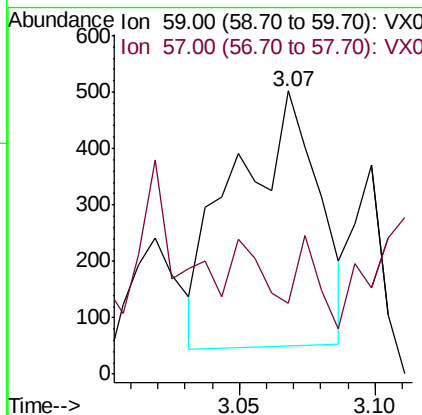
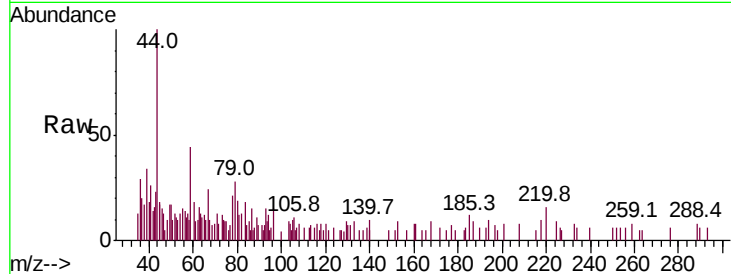


#11

Tert butyl alcohol
 Concen: 0.963 ug/l
 RT: 3.07 min Scan# 314
 Delta R.T. -0.00 min
 Lab File: VX007605.D
 Acq: 19 Feb 2019 11:37

Instrument :
 MSVOA_X
 ClientSampleId :
 CABLE-BRIDGE-FOUNDATION-D-2

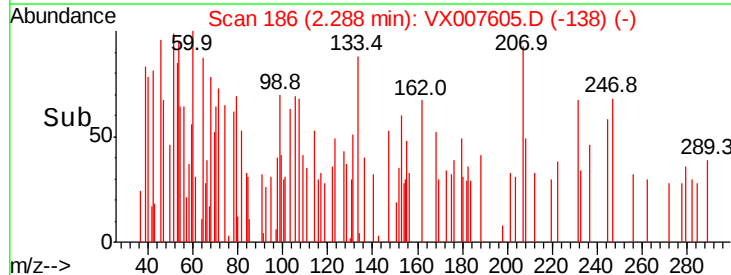
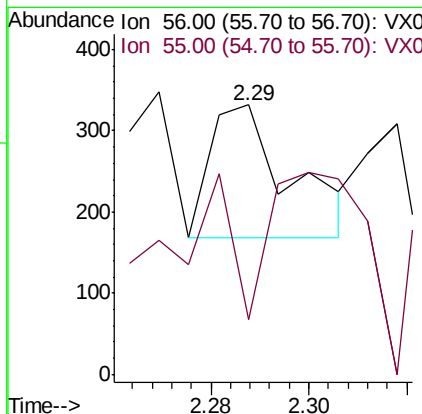
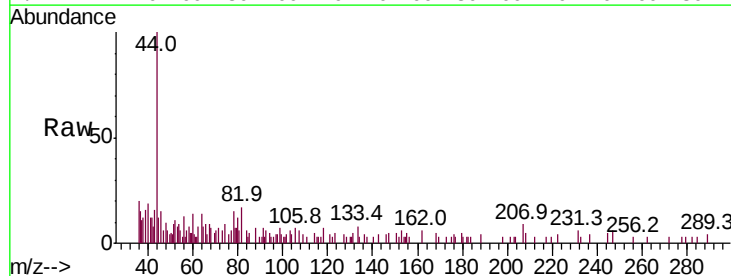
Tot Ion: 59 Resp: 969
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

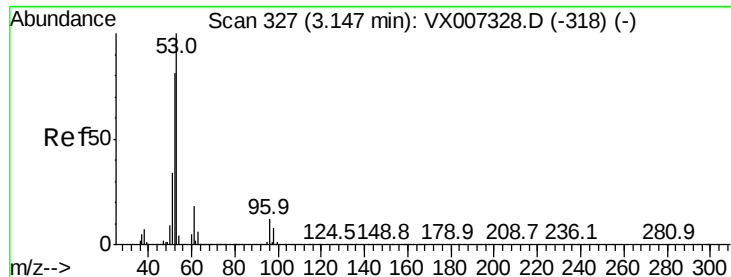


#13

Acrolein
 Concen: 0.388 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX007605.D
 Acq: 19 Feb 2019 11:37

Tgt Ion: 56 Resp: 183
 Ion Ratio Lower Upper
 56 100
 55 188.5 56.9 85.3#





#15

Acrylonitrile

Concen: 0.384 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

Instrument :

MSVOA_X

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-2

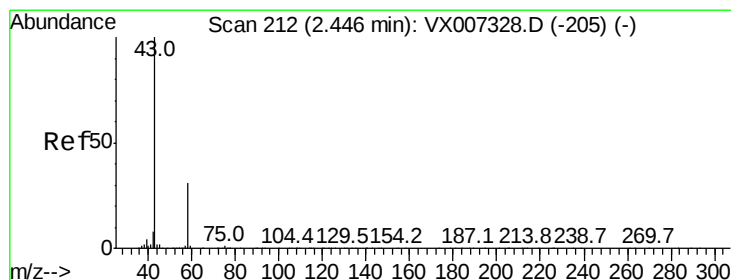
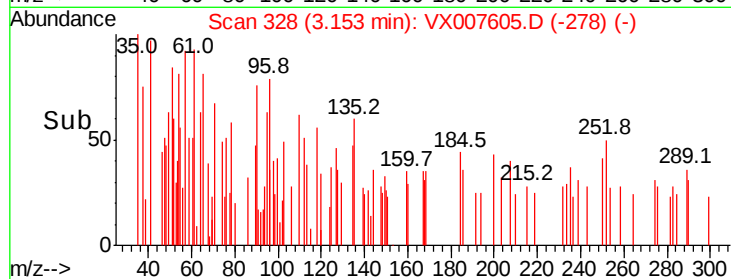
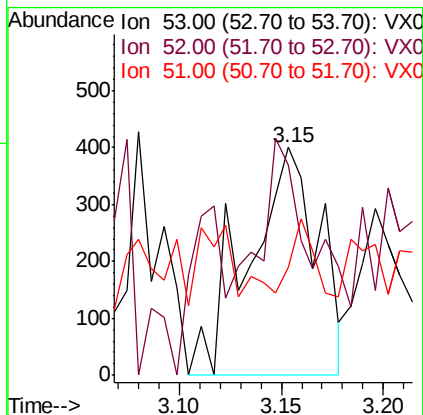
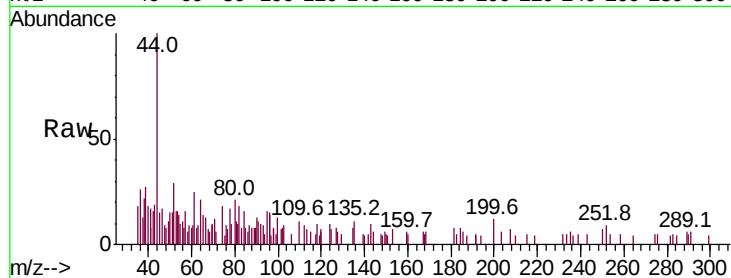
Tot Ion: 53 Resp: 956

Ion Ratio Lower Upper

53 100

52 73.6 66.4 99.6

51 11.0 28.4 42.6#



#16

Acetone

Concen: 8.664 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007605.D

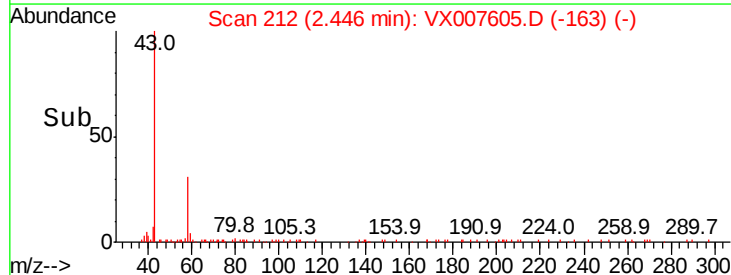
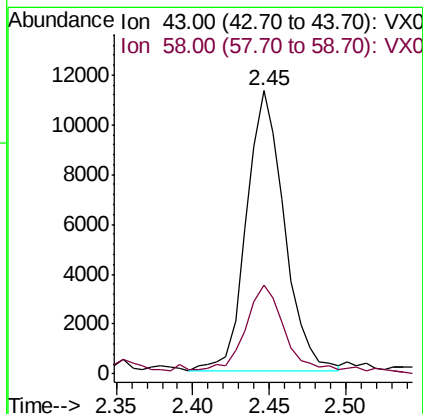
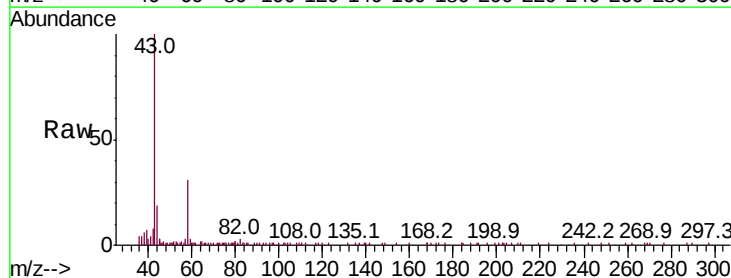
Acq: 19 Feb 2019 11:37

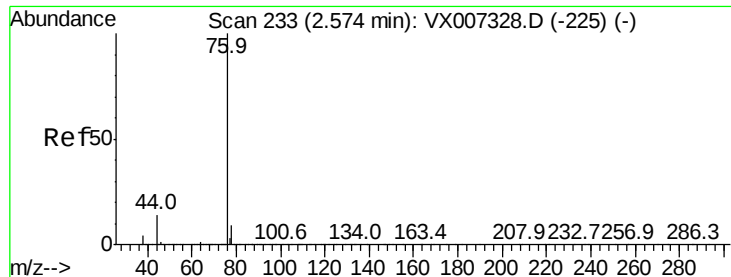
Tgt Ion: 43 Resp: 19293

Ion Ratio Lower Upper

43 100

58 30.3 24.9 37.3





#17

Carbon Disulfide

Concen: 2.303 ug/l

RT: 2.58 min Scan# 234

Delta R.T. 0.01 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

Instrument :

MSVOA_X

ClientSampleId :

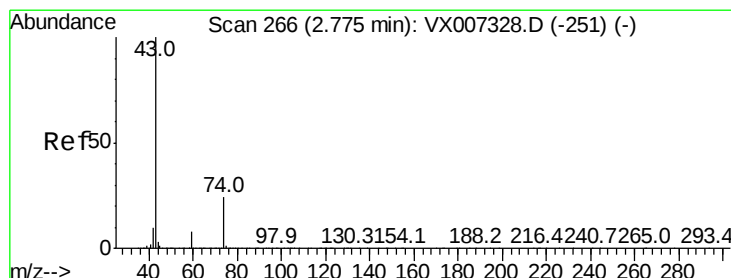
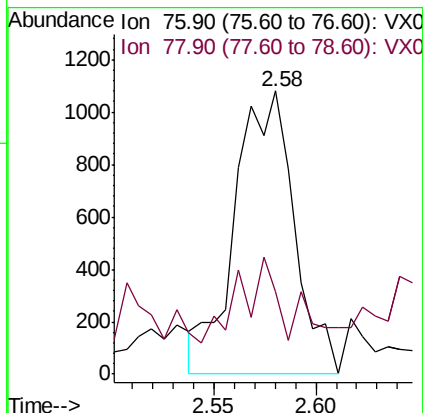
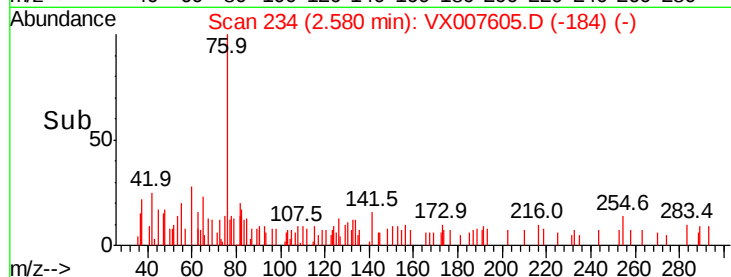
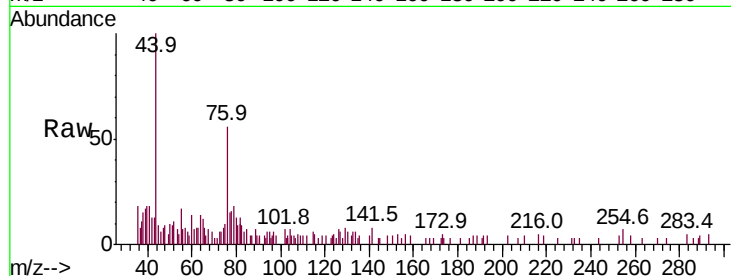
CABLE-BRIDGE-FOUNDATION-D-2

Tot Ion: 76 Resp: 2177

Ion Ratio Lower Upper

76 100

78 14.4 7.1 10.7#



#18

Methyl Acetate

Concen: 0.966 ug/l

RT: 2.79 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX007605.D

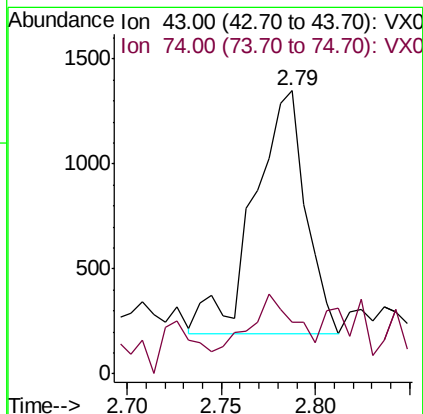
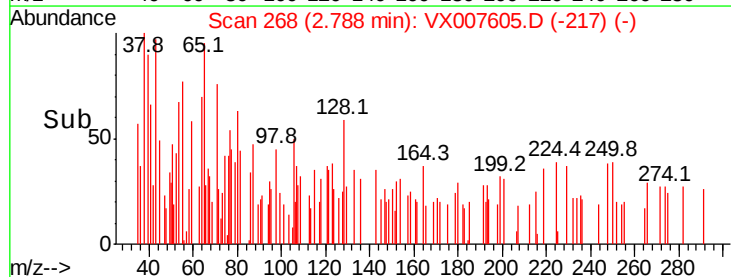
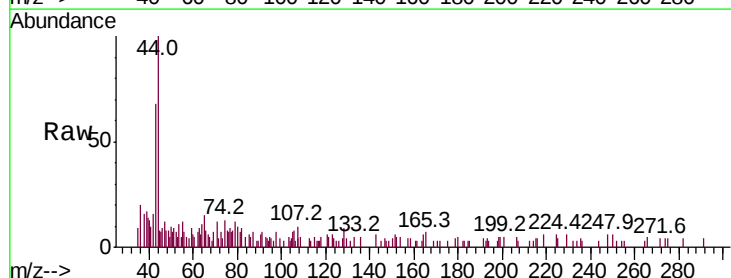
Acq: 19 Feb 2019 11:37

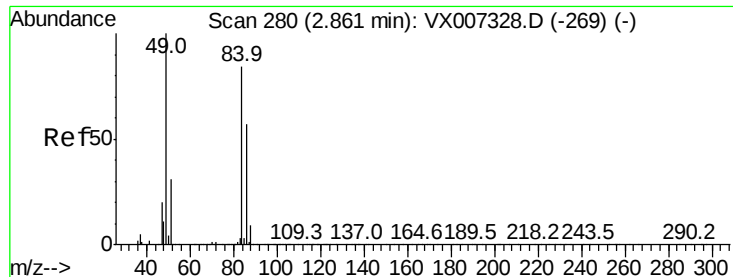
Tgt Ion: 43 Resp: 2187

Ion Ratio Lower Upper

43 100

74 19.5 19.4 29.2





#20

Methvlene Chloride

Concen: 3.300 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

Instrument :

MSVOA_X

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-2

Tot Ion: 84 Resp: 16679

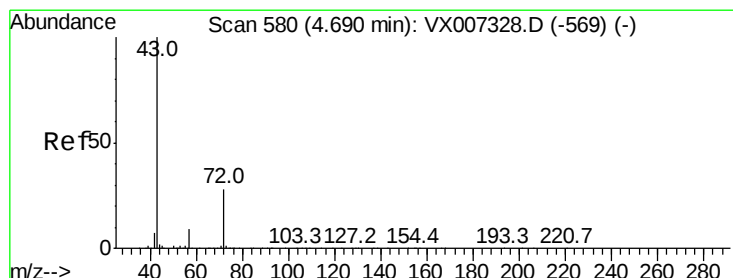
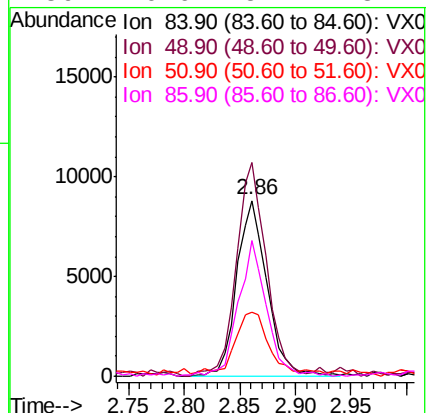
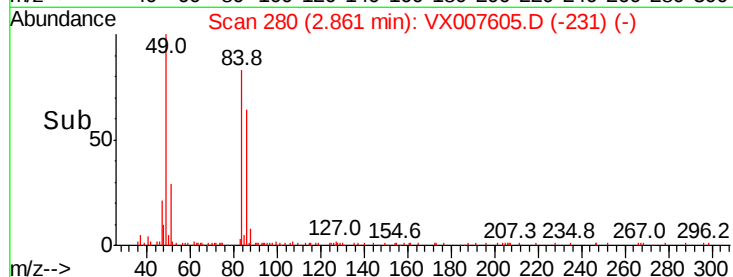
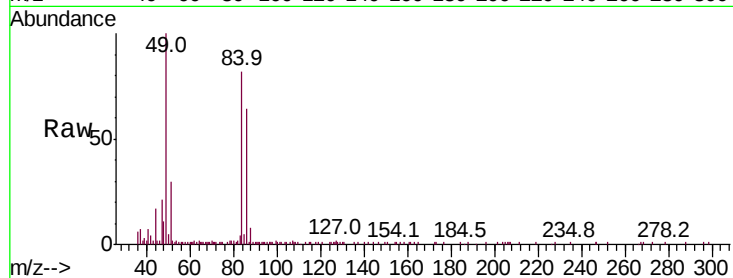
Ion	Ratio	Lower	Upper
84	100		
49	121.5	94.8	142.2
51	34.5	29.8	44.8
86	76.6	54.1	81.1

84 100

49 121.5 94.8 142.2

51 34.5 29.8 44.8

86 76.6 54.1 81.1



#25

2-Butanone

Concen: 1.899 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007605.D

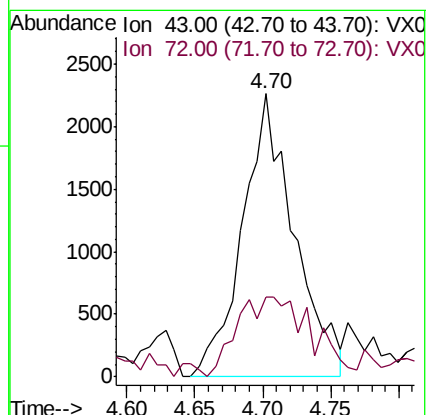
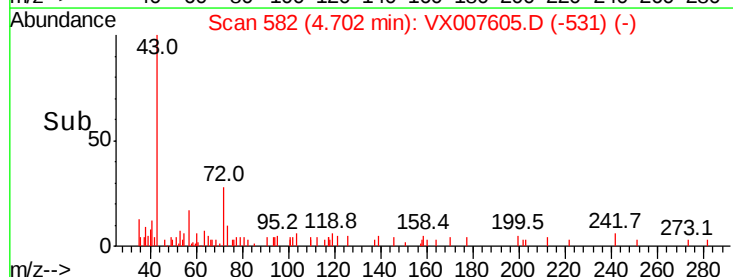
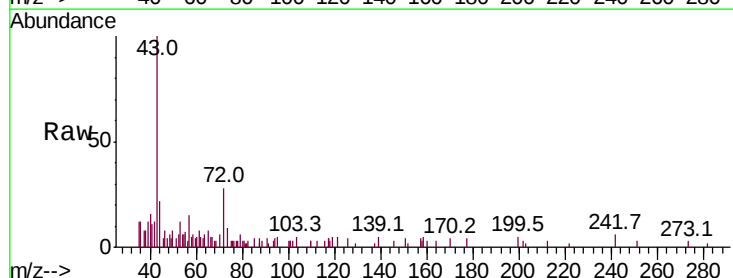
Acq: 19 Feb 2019 11:37

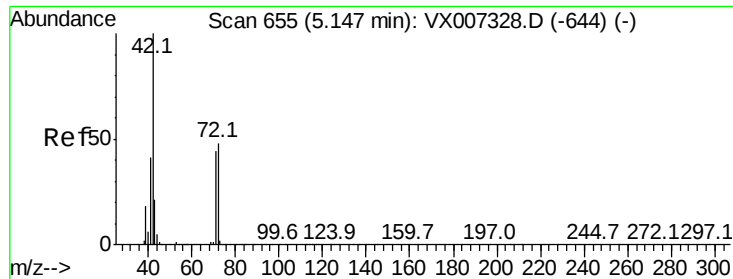
Tgt Ion: 43 Resp: 6017

Ion	Ratio	Lower	Upper
43	100		
72	23.5	22.2	33.2

43 100

72 23.5 22.2 33.2

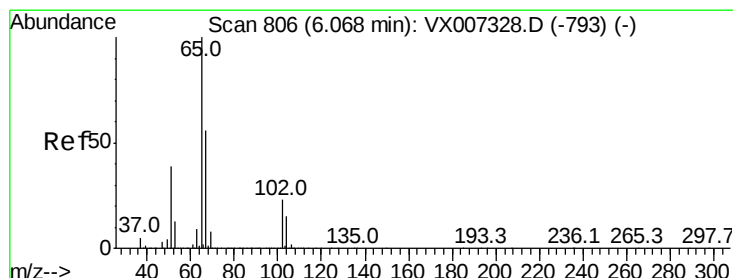
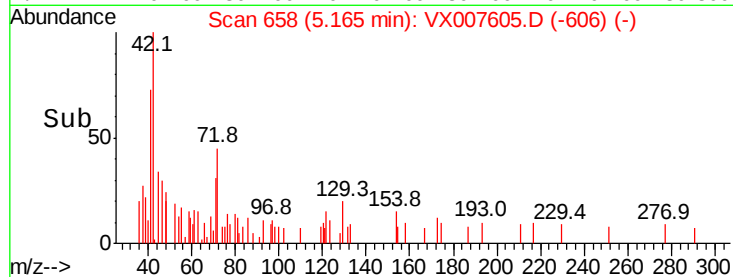
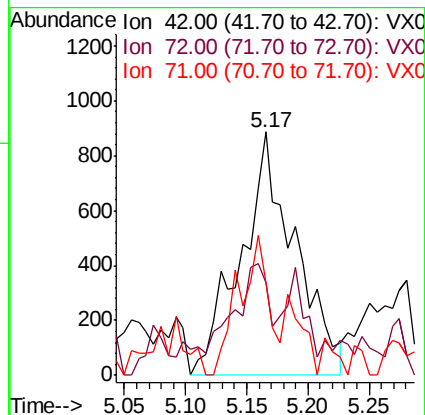
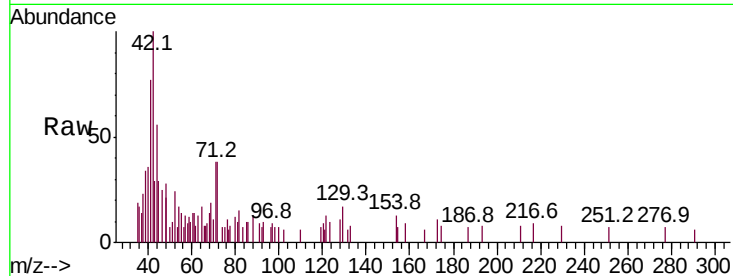




#29
Tetrahydrofuran
Concen: 1.373 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.02 min
Lab File: VX007605.D
Acq: 19 Feb 2019 11:37

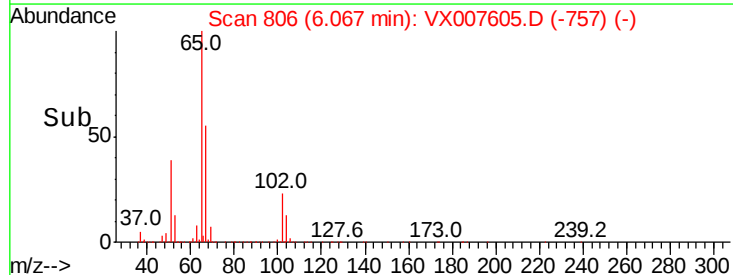
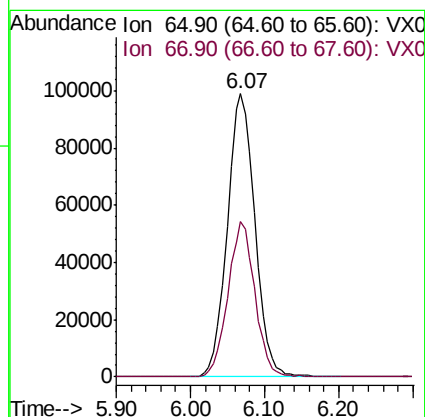
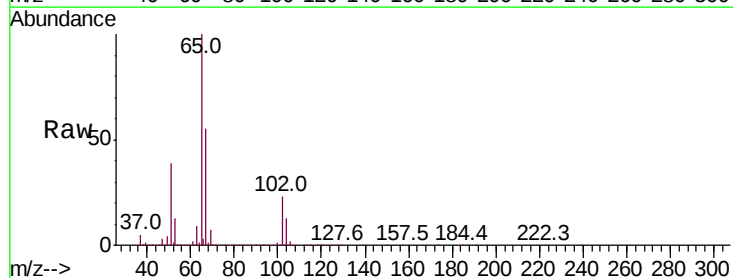
Instrument :
MSVOA_X
ClientSampleId :
CABLE-BRIDGE-FOUNDATION-D-2

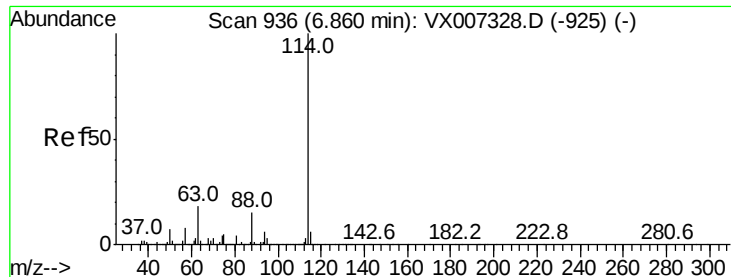
Tot Ion: 42 Resp: 2737
Ion Ratio Lower Upper
42 100
72 22.6 37.6 56.4#
71 32.0 34.6 51.8#



#33
1,2-Dichloroethane-d4
Concen: 52.691 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX007605.D
Acq: 19 Feb 2019 11:37

Tgt Ion: 65 Resp: 256152
Ion Ratio Lower Upper
65 100
67 53.4 0.0 108.8

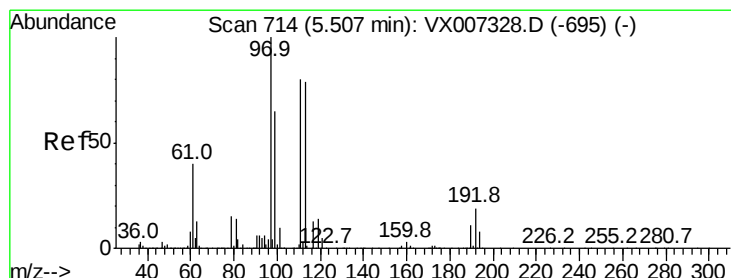
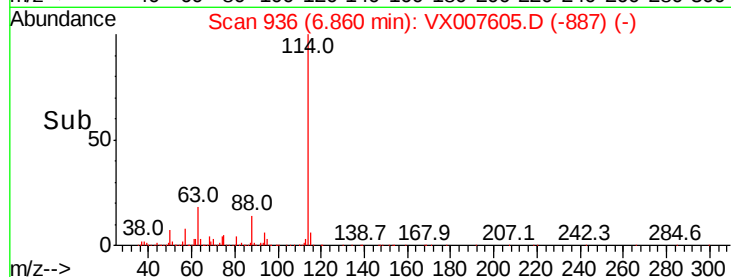
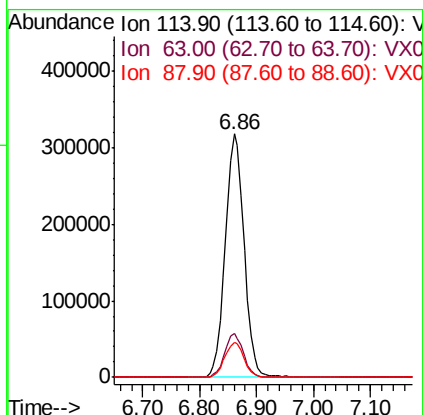
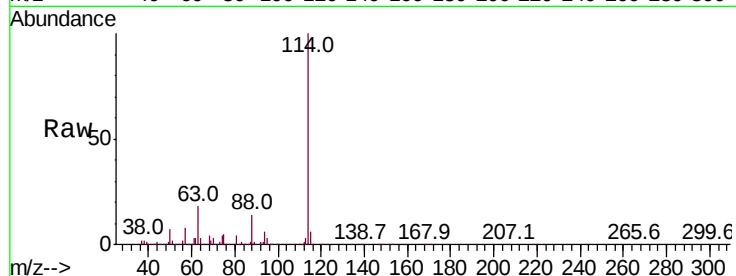




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX007605.D
Acq: 19 Feb 2019 11:37

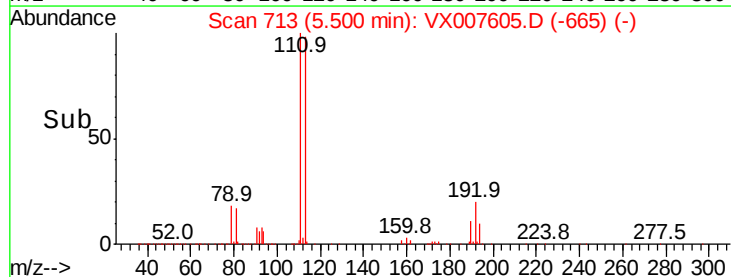
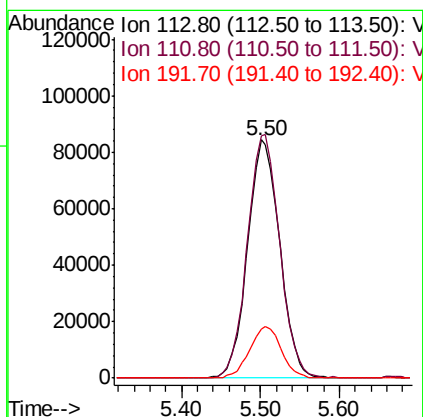
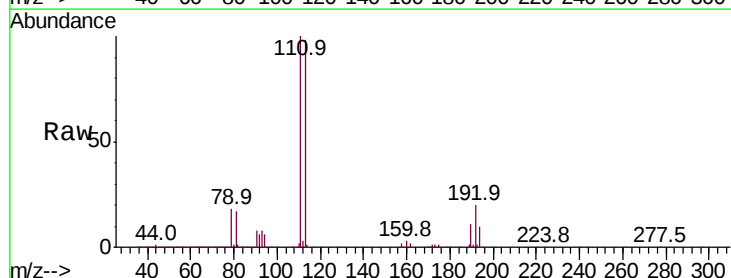
Instrument :
MSVOA_X
ClientSampleId :
CABLE-BRIDGE-FOUNDATION-D-2

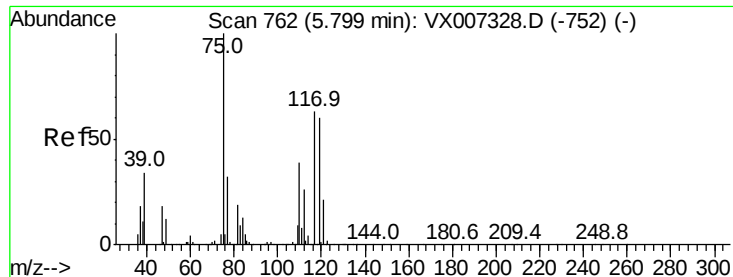
Tot Ion:114 Resp: 731908
Ion Ratio Lower Upper
114 100
63 18.0 0.0 35.6
88 14.2 0.0 29.6



#35
Dibromofluoromethane
Concen: 50.335 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.01 min
Lab File: VX007605.D
Acq: 19 Feb 2019 11:37

Tgt Ion:113 Resp: 239708
Ion Ratio Lower Upper
113 100
111 102.1 81.8 122.8
192 21.3 18.5 27.7

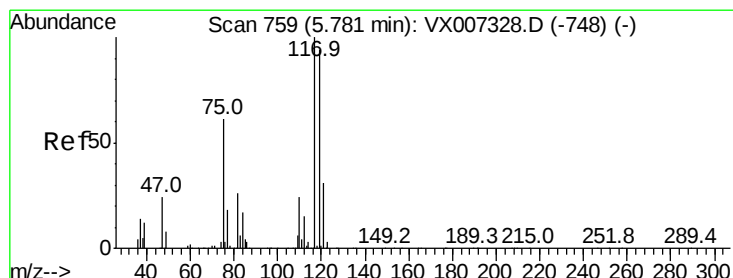
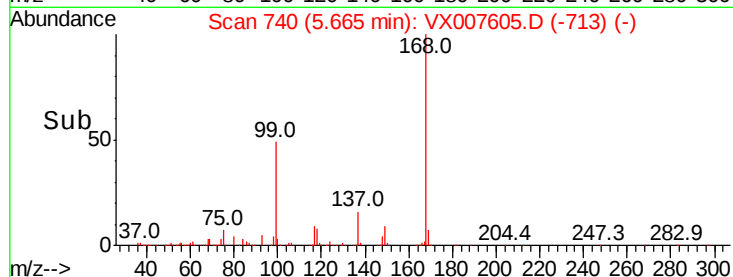
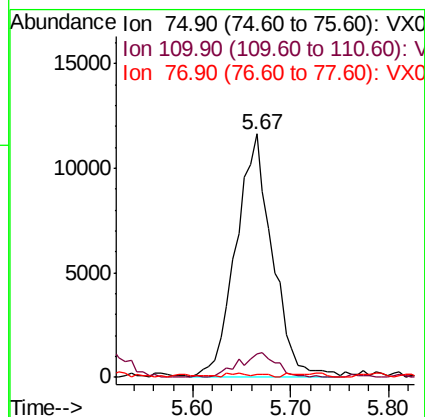
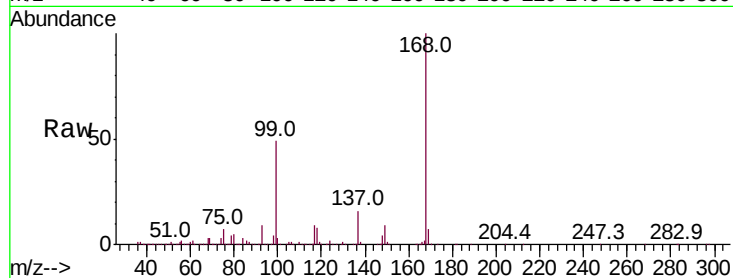




#36
 1,1-Dichloropropene
 Concen: 4.612 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007605.D
 Acq: 19 Feb 2019 11:37

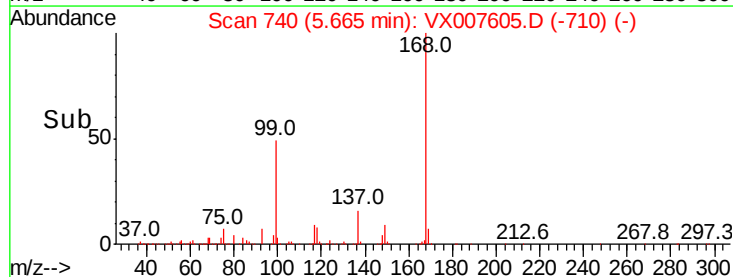
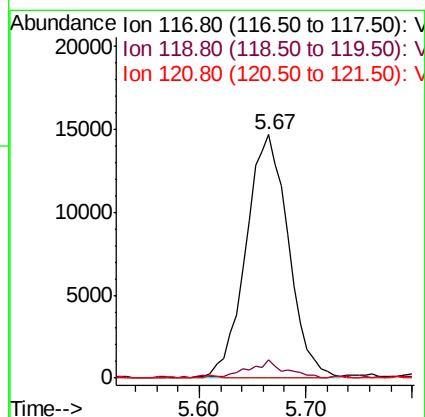
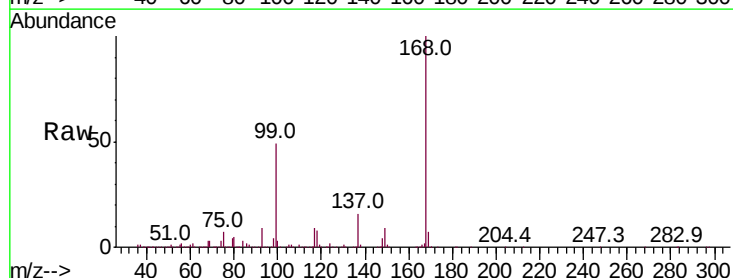
Instrument :
 MSVOA_X
 ClientSampleId :
 CABLE-BRIDGE-FOUNDATION-D-2

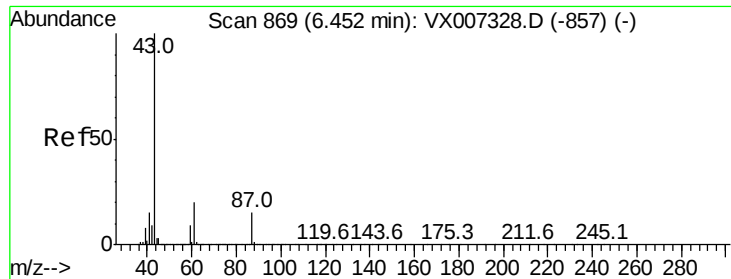
Tot Ion: 75 Resp: 30287
 Ion Ratio Lower Upper
 75 100
 110 10.3 20.0 59.9#
 77 0.5 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.457 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007605.D
 Acq: 19 Feb 2019 11:37

Tgt Ion: 117 Resp: 41136
 Ion Ratio Lower Upper
 117 100
 119 7.1 75.3 112.9#
 121 0.0 25.0 37.4#





#43

Isopropyl Acetate

Concen: 1.860 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

Instrument :

MSVOA_X

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-2

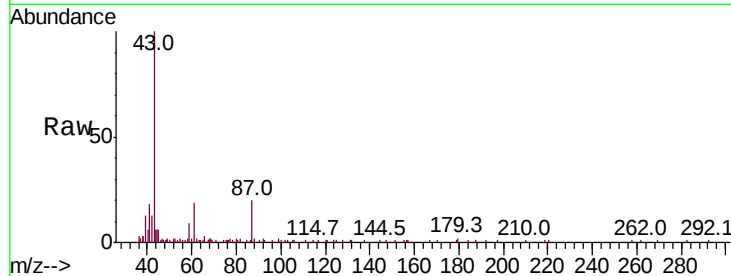
Tot Ion: 43 Resp: 19056

Ion Ratio Lower Upper

43 100

61 21.2 16.1 24.1

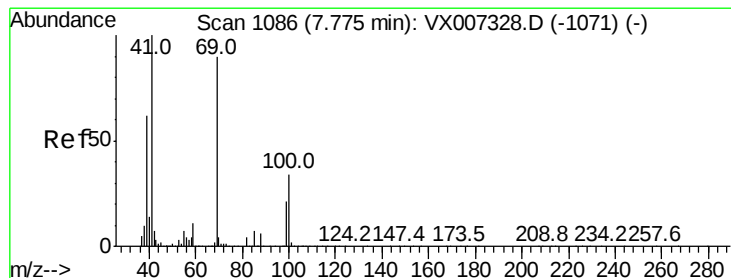
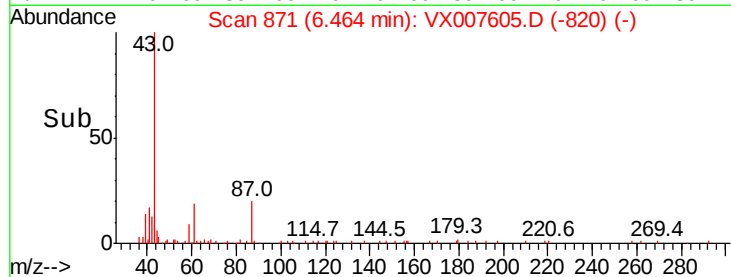
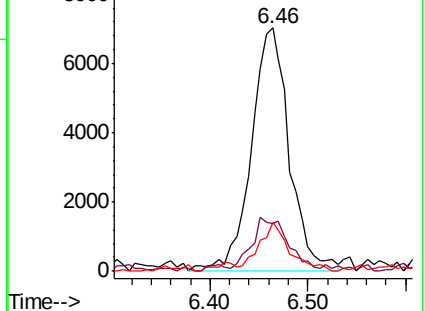
87 16.1 11.5 17.3



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: 2.055 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

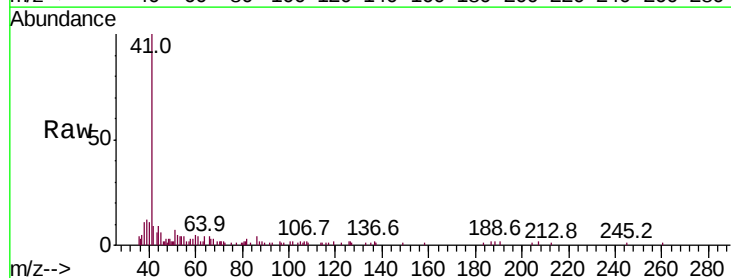
Tgt Ion: 41 Resp: 10530

Ion Ratio Lower Upper

41 100

69 2.8 70.2 105.4#

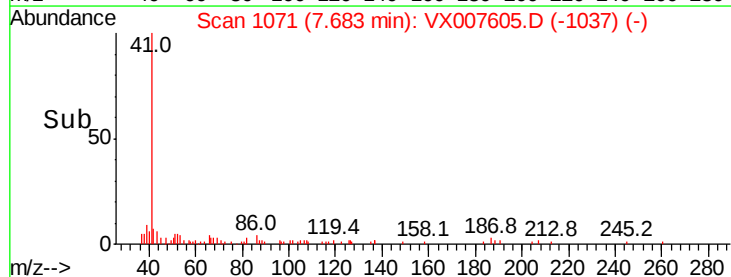
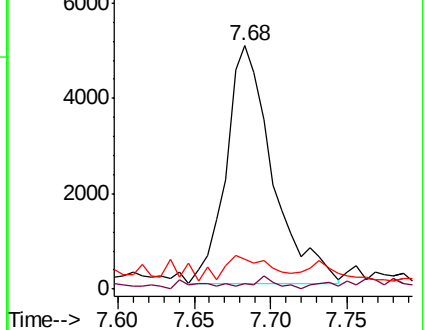
39 0.0 47.4 71.0#

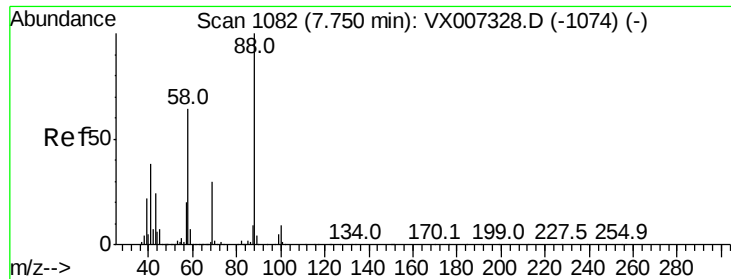


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 7.416 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

Instrument :

MSVOA_X

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-2

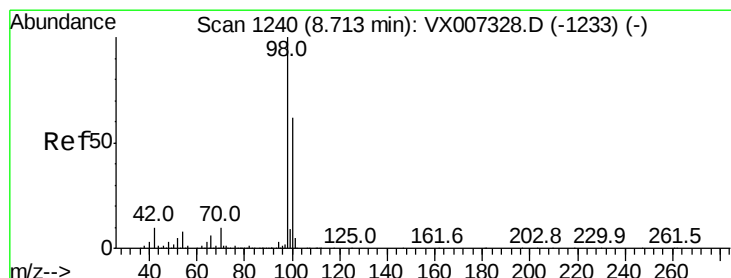
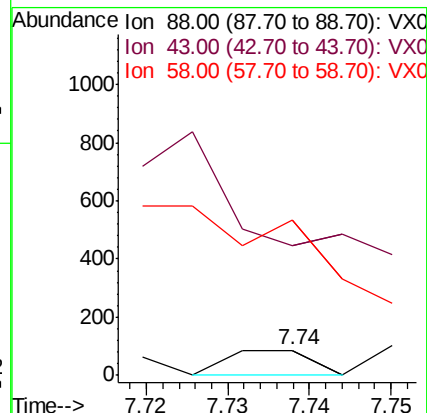
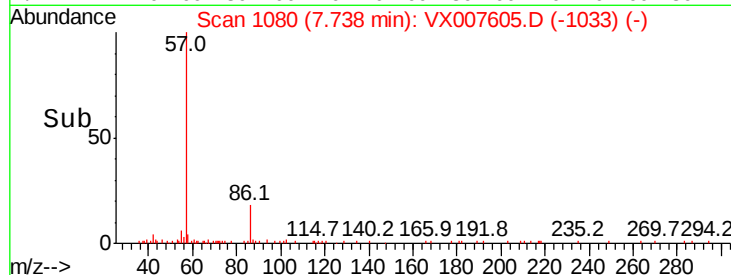
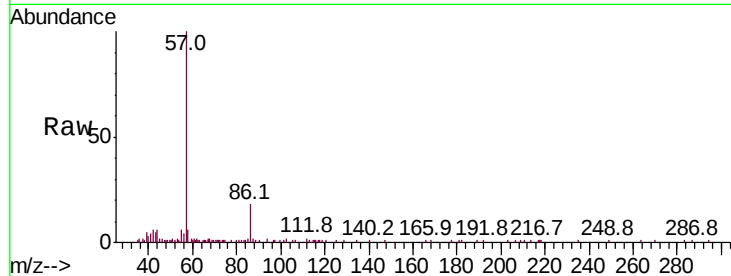
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

58 0.0 53.0 79.4#



#50

Toluene-d8

Concen: 50.936 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007605.D

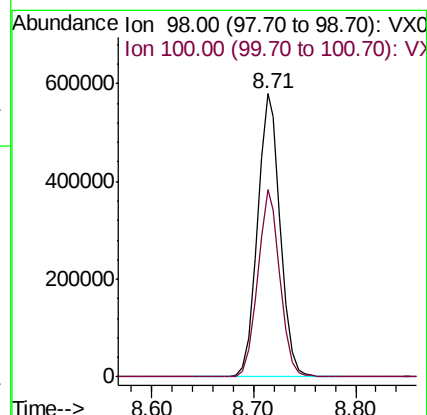
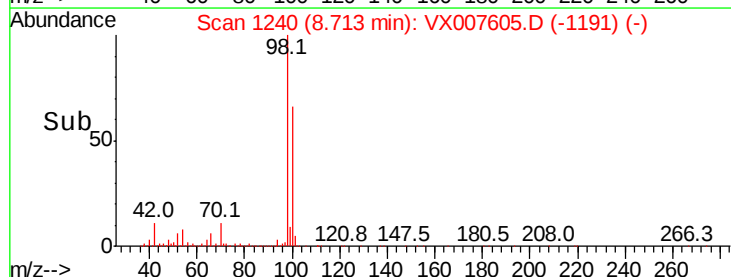
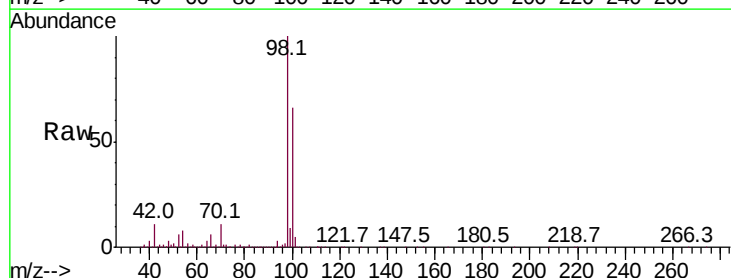
Acq: 19 Feb 2019 11:37

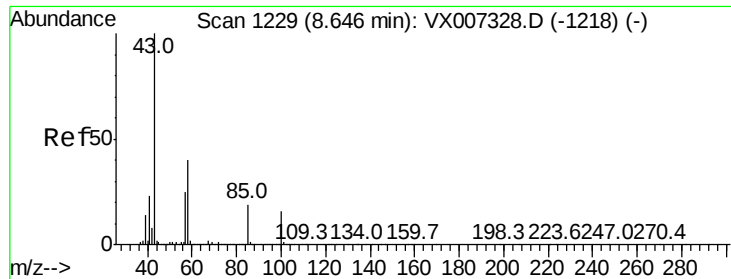
Tgt Ion: 98 Resp: 899979

Ion Ratio Lower Upper

98 100

100 64.7 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 14.667 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

Instrument :

MSVOA_X

ClientSampleId :

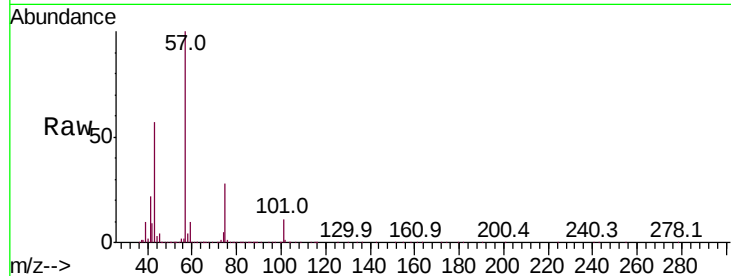
CABLE-BRIDGE-FOUNDATION-D-2

Tot Ion: 43 Resp: 98935

Ion Ratio Lower Upper

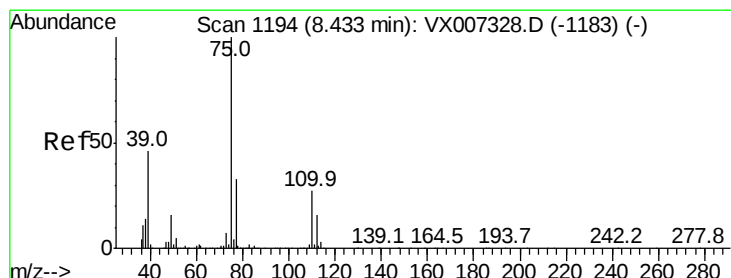
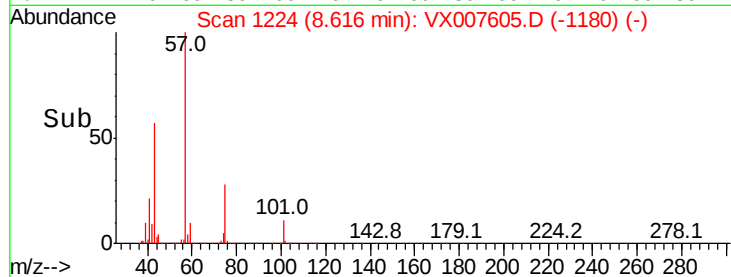
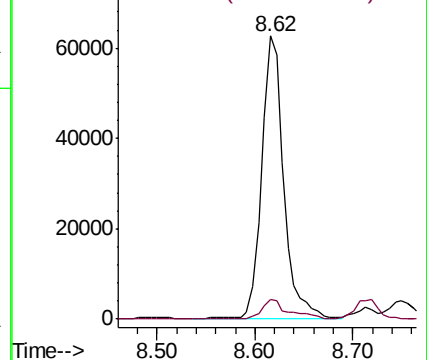
43 100

58 8.7 31.2 46.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 6.631 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.19 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

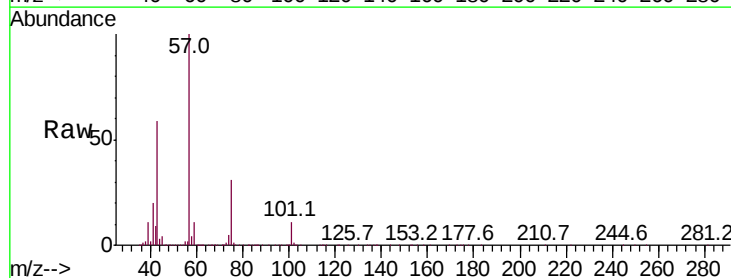
Tgt Ion: 75 Resp: 46765

Ion Ratio Lower Upper

75 100

77 1.0 26.2 39.4#

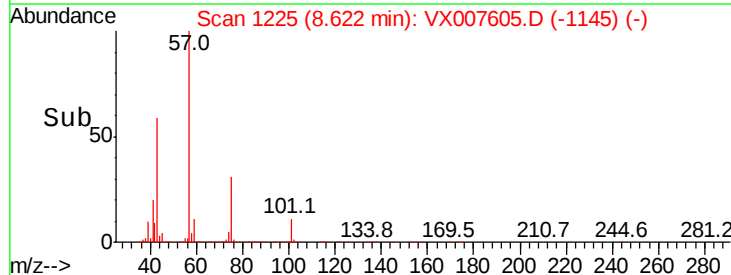
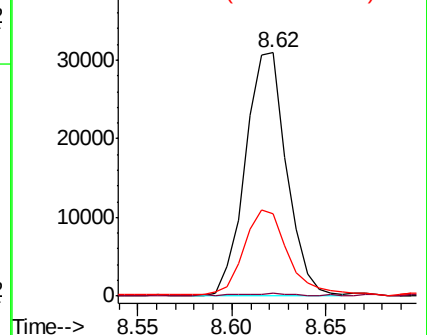
39 33.6 37.1 55.7#

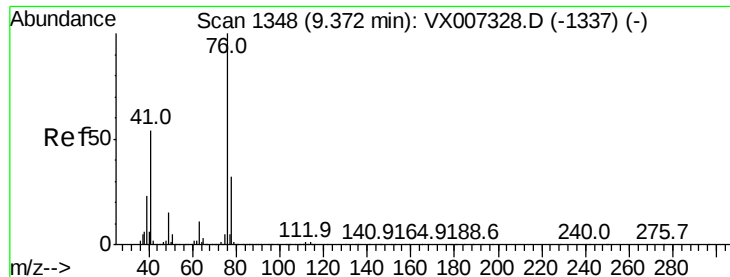


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.120 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

Instrument :

MSVOA_X

ClientSampleId :

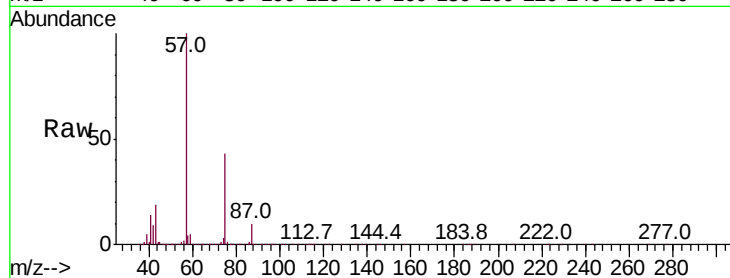
CABLE-BRIDGE-FOUNDATION-D-2

Tot Ion: 76 Resp: 9268

Ion Ratio Lower Upper

76 100

78 3.8 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

8000

6000

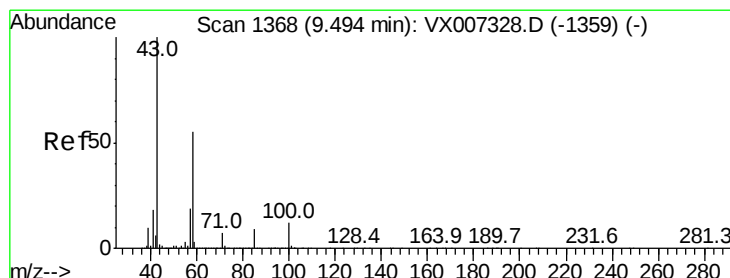
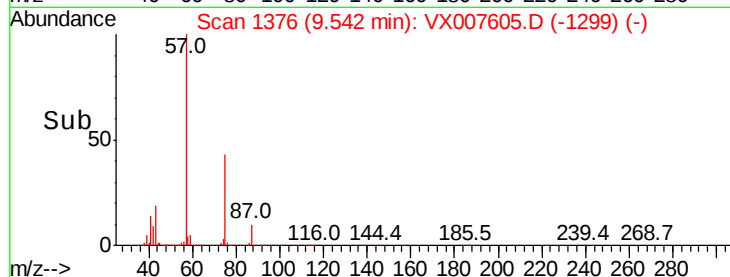
4000

2000

0

9.50 9.55 9.60

Time-->



#59

2-Hexanone

Concen: 23.807 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007605.D

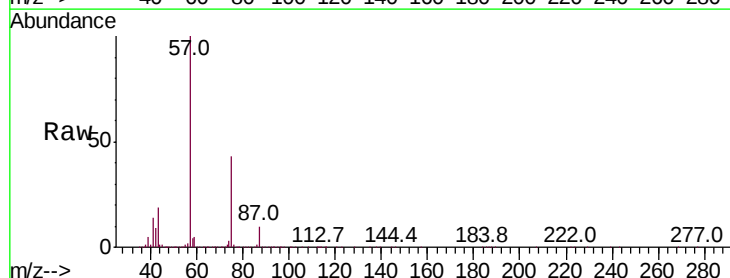
Acq: 19 Feb 2019 11:37

Tgt Ion: 43 Resp: 124961

Ion Ratio Lower Upper

43 100

58 19.9 27.1 81.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

100000

80000

60000

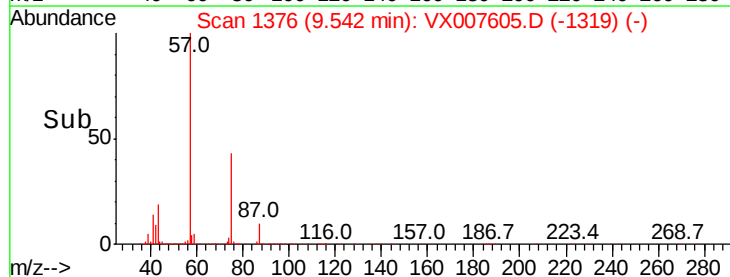
40000

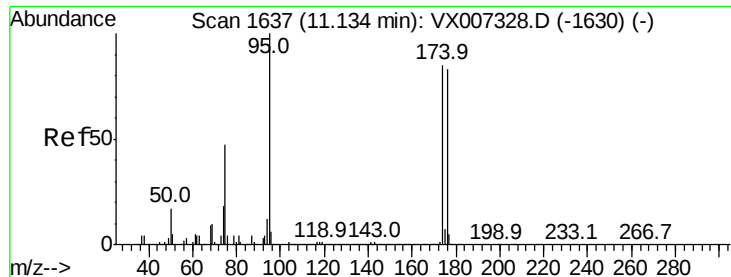
20000

0

9.50 9.55 9.60

Time-->





#62

4-Bromofluorobenzene

Concen: 48.538 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

Instrument :

MSVOA_X

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-2

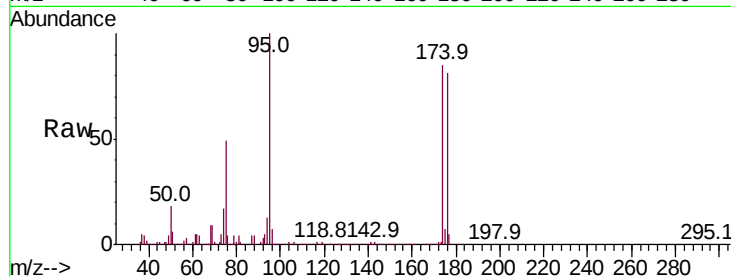
Tot Ion: 95 Resp: 313115

Ion Ratio Lower Upper

95 100

174 93.8 0.0 189.2

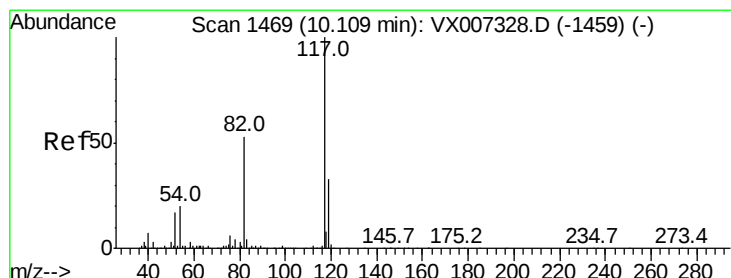
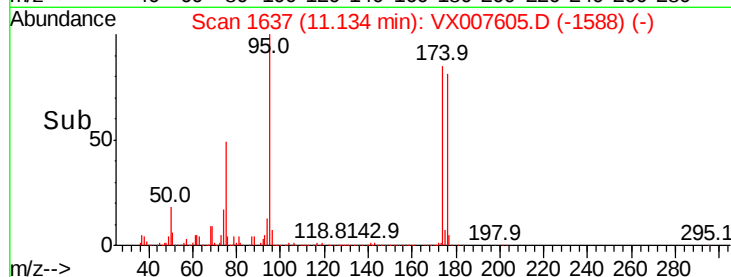
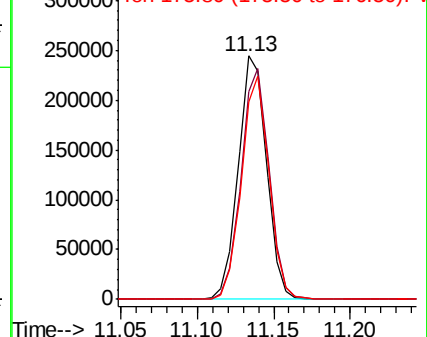
176 89.4 0.0 186.2



Abundance Ion 94.90 (94.60 to 95.60): VX007328.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX007328.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX007328.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

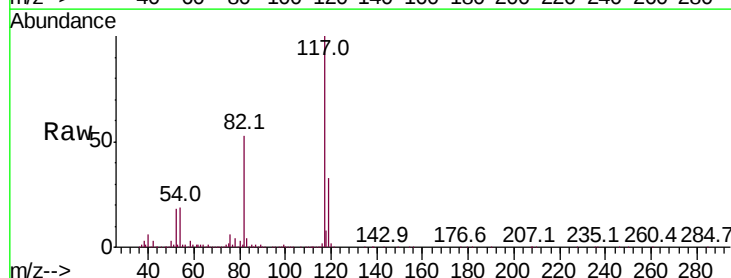
Tgt Ion: 117 Resp: 710717

Ion Ratio Lower Upper

117 100

82 53.2 42.1 63.1

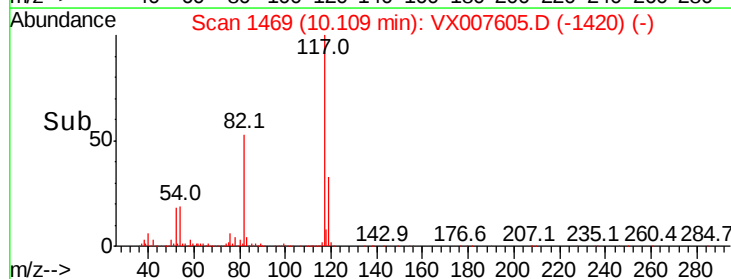
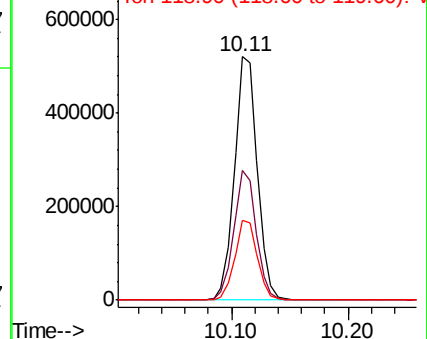
119 32.6 26.5 39.7

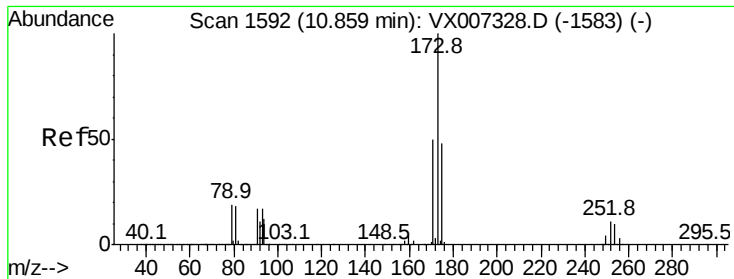


Abundance Ion 116.90 (116.60 to 117.60): VX007328.D (-1459) (-)

Ion 82.00 (81.70 to 82.70): VX007328.D (-1459) (-)

Ion 118.90 (118.60 to 119.60): VX007328.D (-1459) (-)





#71

Bromoform

Concen: 4.063 ug/l

RT: 10.92 min Scan# 1602

Delta R.T. 0.06 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

Instrument :

MSVOA_X

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-2

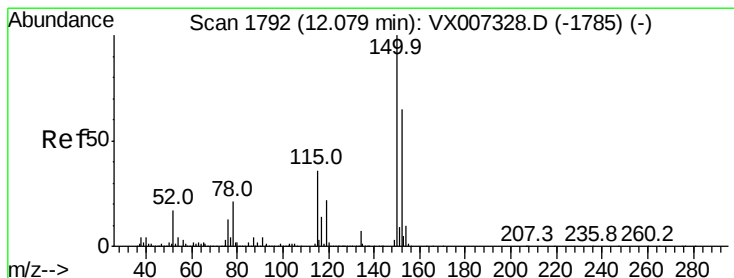
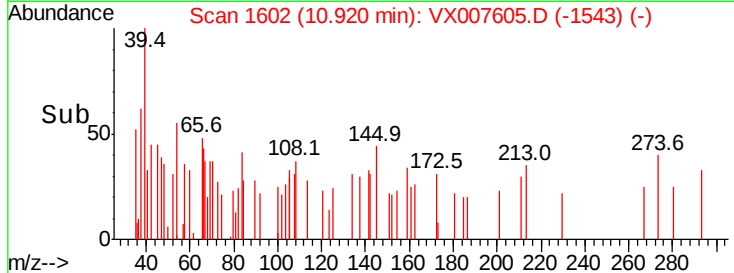
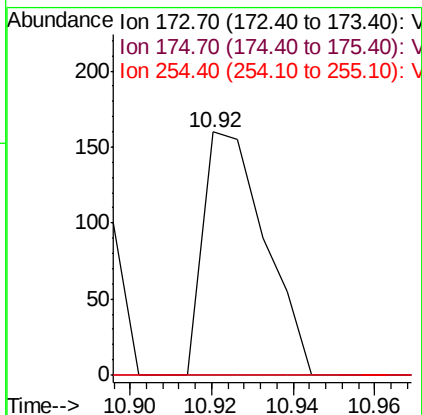
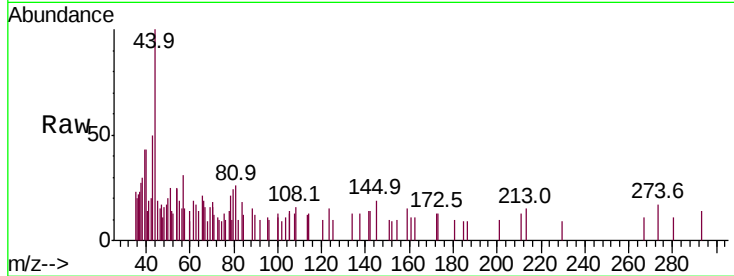
Tot Ion:173 Resp: 168

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

254 0.0 0.2 0.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

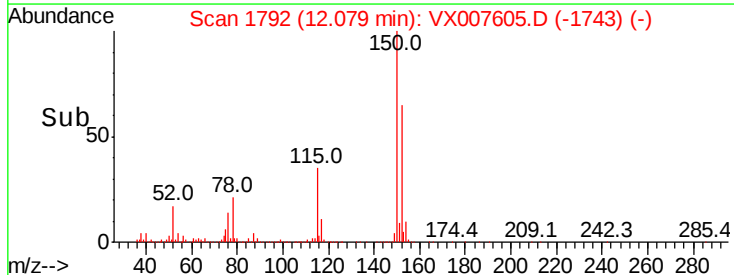
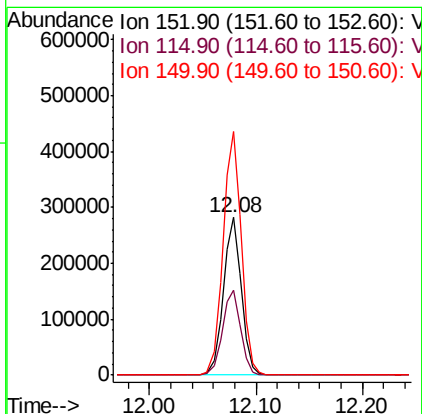
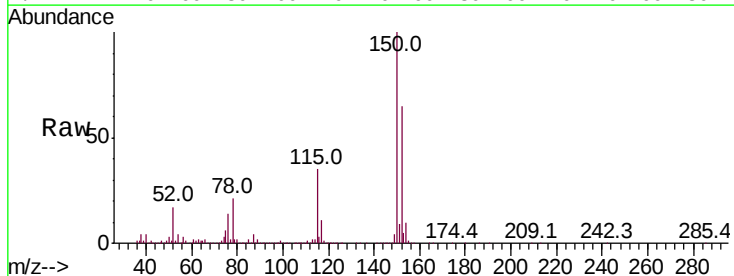
Tgt Ion:152 Resp: 330943

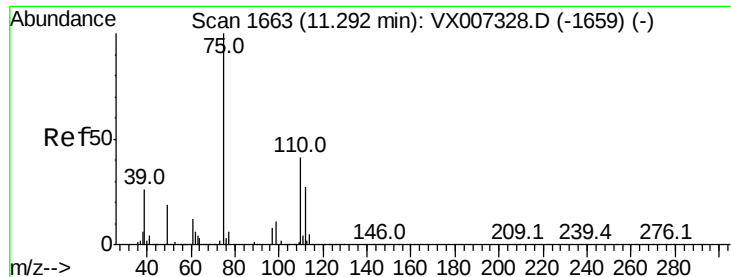
Ion Ratio Lower Upper

152 100

115 54.8 38.0 114.0

150 157.7 0.0 346.4





#76

1,2,3-Trichloropropane

Concen: 23.447 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

Instrument :

MSVOA_X

ClientSampleId :

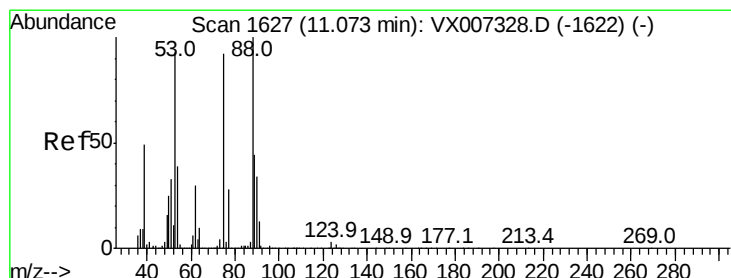
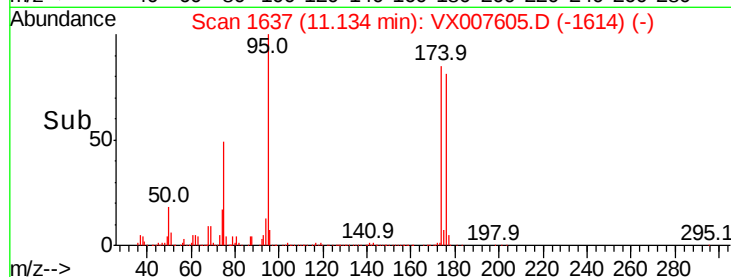
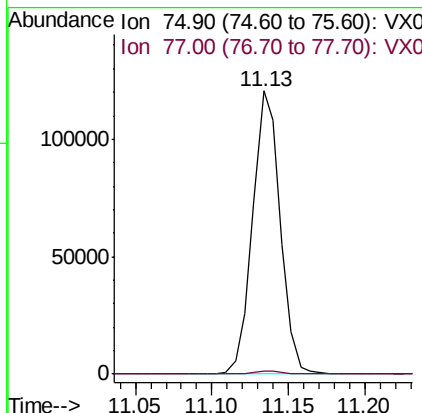
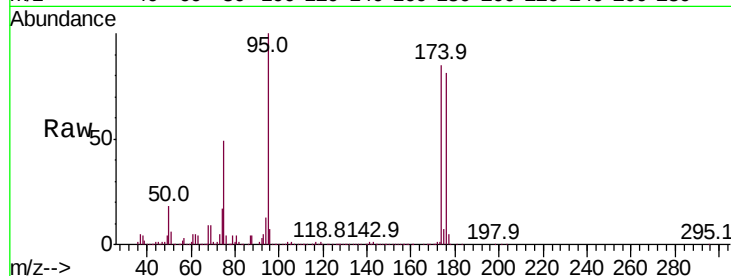
CABLE-BRIDGE-FOUNDATION-D-2

Tot Ion: 75 Resp: 150937

Ion Ratio Lower Upper

75 100

77 1.6 23.0 69.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.573 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007605.D

Acq: 19 Feb 2019 11:37

Tgt Ion: 75 Resp: 150937

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

89 0.1 41.4 62.0#

