

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052119\
 Data File : VX009745.D
 Acq On : 21 May 2019 14:14
 Operator : JC/SP
 Sample : K2953-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-051719

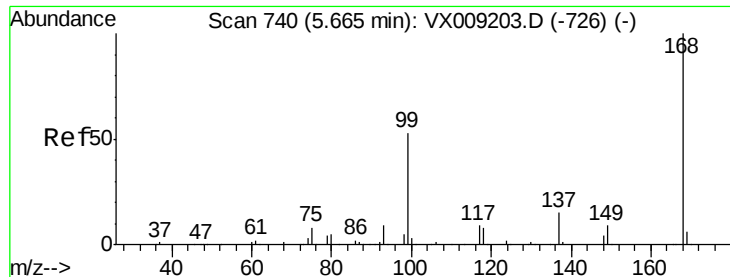
Quant Time: May 22 07:03:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	175629	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	279131	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	251118	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	108763	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	117508	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
35) Dibromofluoromethane	5.49	113	86058	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
50) Toluene-d8	8.71	98	354605	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
62) 4-Bromofluorobenzene	11.13	95	119043	46.25	ug/l	0.00
Spiked Amount			Recovery	=	92.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.19	74	308	0.248	ug/l	93
10) Methyl Iodide	2.52	142	106	4.644	ug/l #	42
11) Tert butyl alcohol	3.01	59	1595	2.874	ug/l #	73
16) Acetone	2.45	43	4170	3.239	ug/l	96
20) Methylene Chloride	2.86	84	2918	1.400	ug/l	96
25) 2-Butanone	4.70	43	646	0.323	ug/l #	70
28) Bromochloromethane	4.99	49	60	Below Cal	#	20
29) Tetrahydrofuran	5.13	42	553	0.430	ug/l #	83
31) Cyclohexane	5.66	56	4199	1.185	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13687	5.276	ug/l #	51
38) Carbon Tetrachloride	5.67	117	16904	7.172	ug/l #	15
76) 1,2,3-Trichloropropane	11.13	75	61286	24.292	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61286	62.154	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009745.D

Acq: 21 May 2019 14:14

Instrument :

MSVOA_X

ClientSampled :

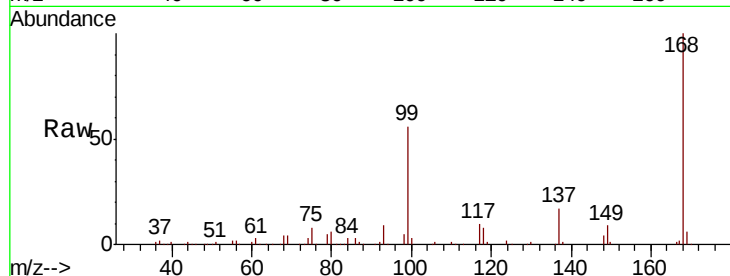
FB-051719

Tot Ion:168 Resp: 175629

Ion Ratio Lower Upper

168 100

99 55.6 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VX009203.D (-726) (-)

Ion 98.90 (98.60 to 99.60): VX009203.D (-726) (-)

5.66

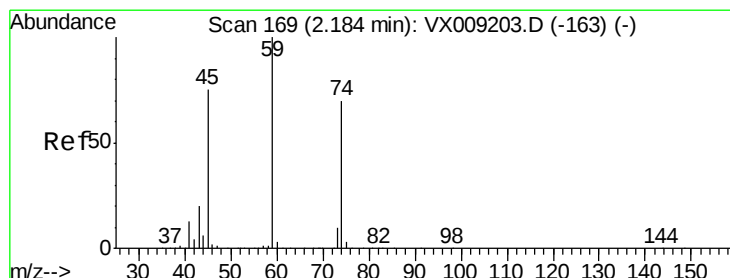
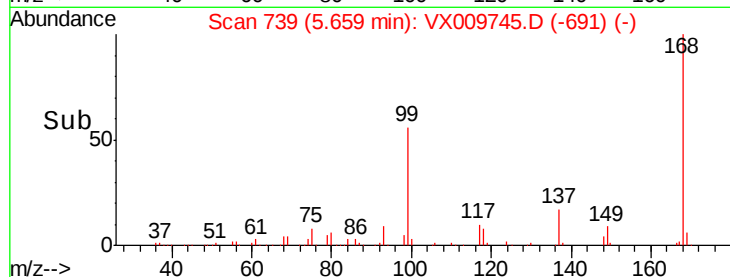
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 0.248 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.01 min

Lab File: VX009745.D

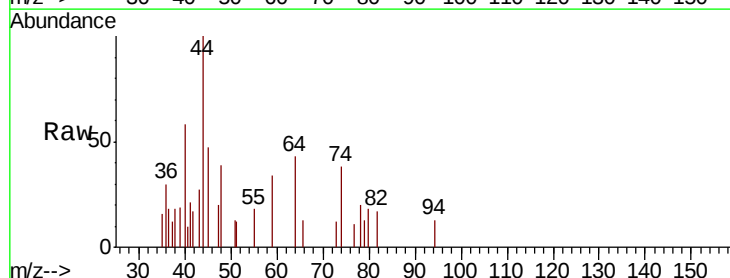
Acq: 21 May 2019 14:14

Tgt Ion: 74 Resp: 308

Ion Ratio Lower Upper

74 100

45 99.0 53.3 159.9



Abundance Ion 74.00 (73.70 to 74.70): VX009745.D (-120) (-)

Ion 45.00 (44.70 to 45.70): VX009745.D (-120) (-)

2.19

250

200

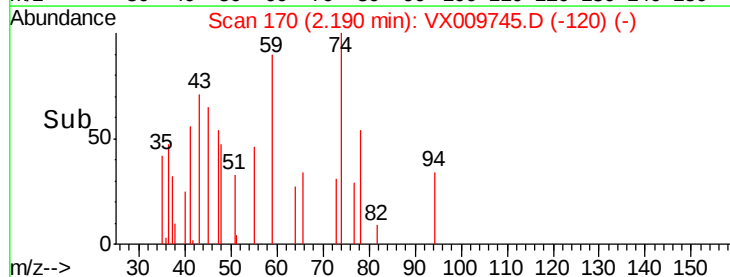
150

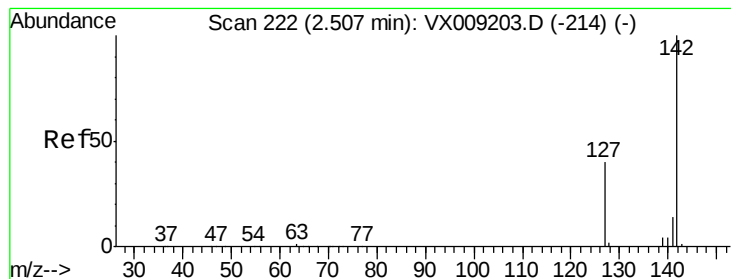
100

50

0

Time--> 2.15 2.20





#10

Methvl Iodide

Concen: 4.644 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009745.D

Acq: 21 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

FB-051719

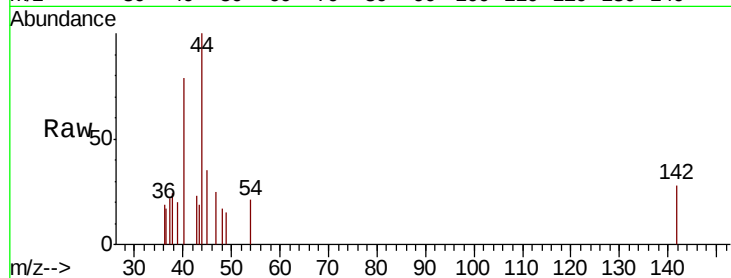
Tot Ion:142 Resp: 106

Ion Ratio Lower Upper

142 100

127 0.0 32.7 49.1#

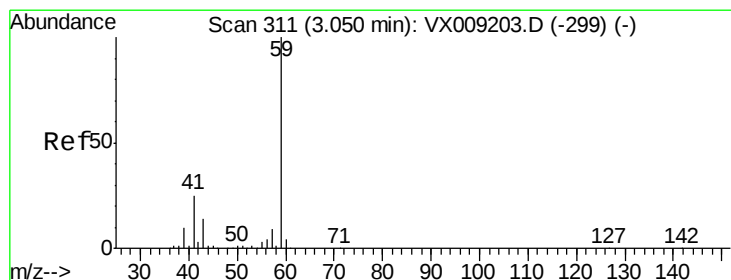
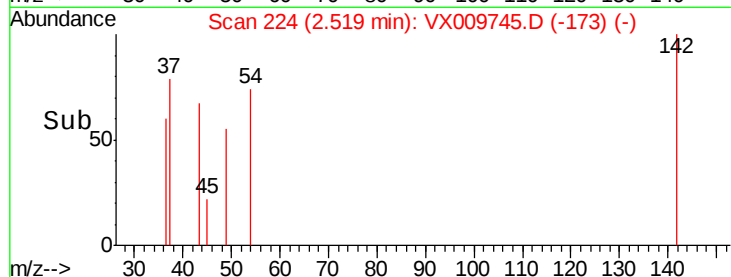
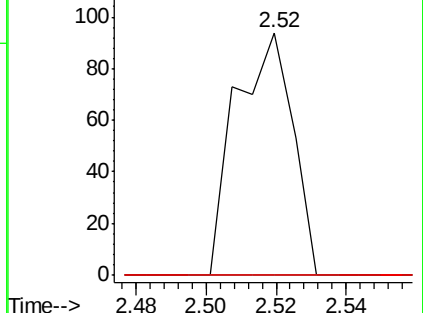
141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 2.874 ug/l

RT: 3.01 min Scan# 304

Delta R.T. -0.04 min

Lab File: VX009745.D

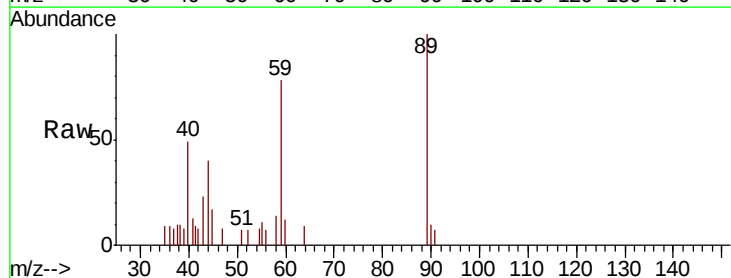
Acq: 21 May 2019 14:14

Tgt Ion: 59 Resp: 1595

Ion Ratio Lower Upper

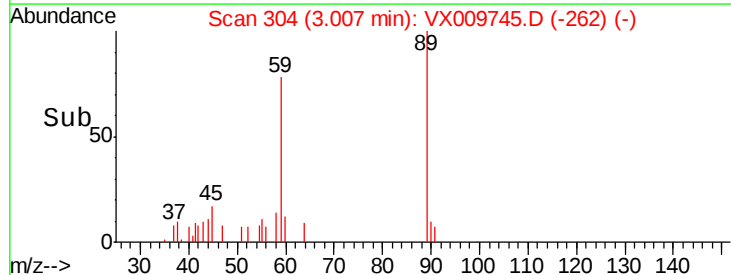
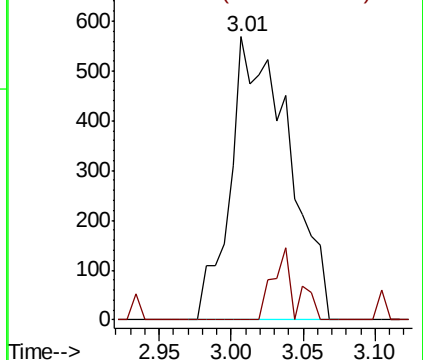
59 100

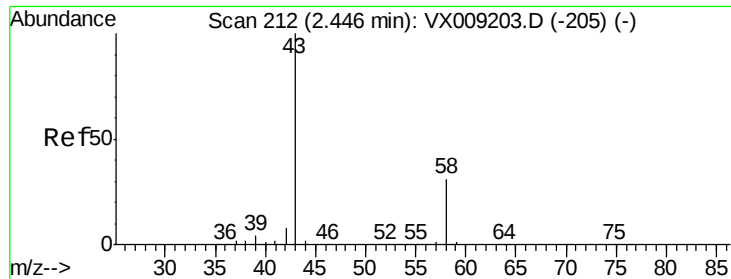
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

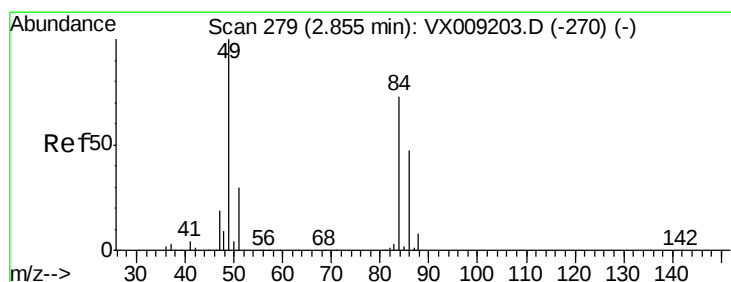
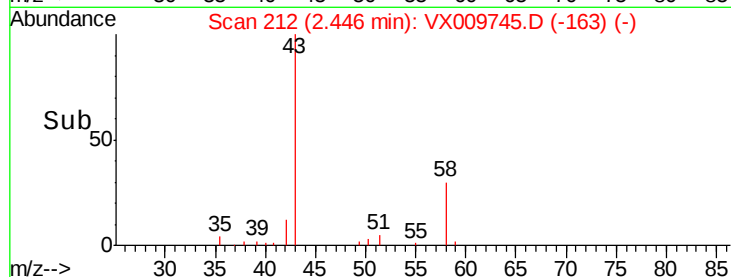
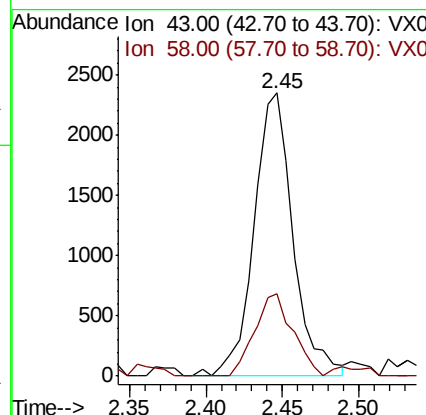
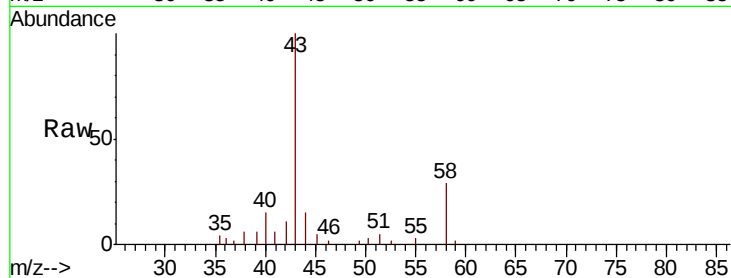




#16
Acetone
Concen: 3.239 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX009745.D
Acq: 21 May 2019 14:14

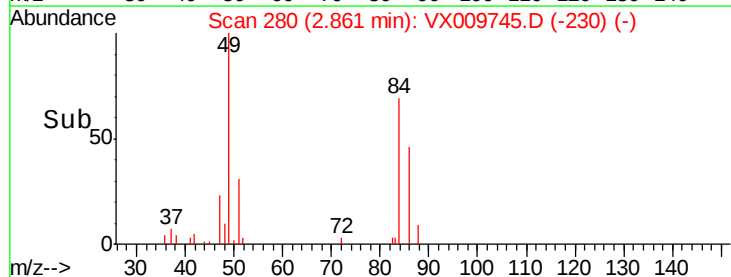
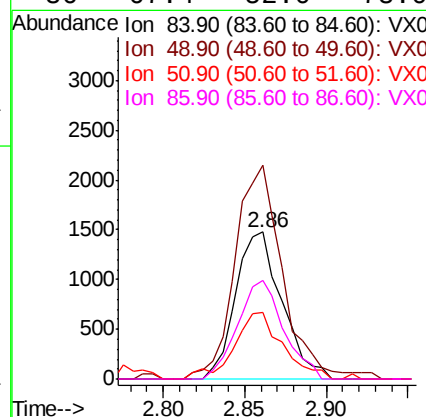
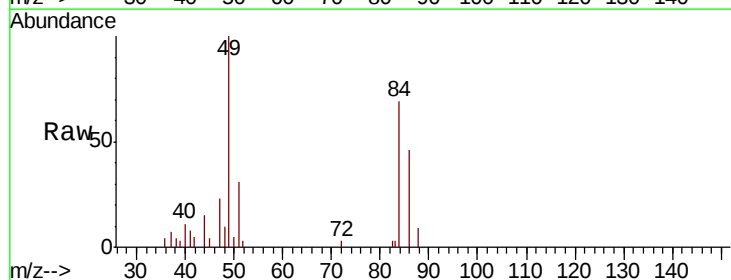
Instrument :
MSVOA_X
ClientSampled :
FB-051719

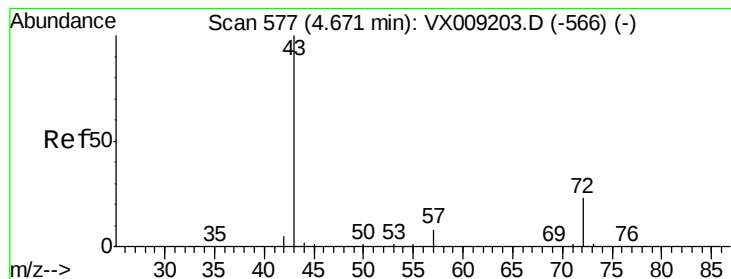
Tot Ion: 43 Resp: 4170
Ion Ratio Lower Upper
43 100
58 28.9 24.9 37.3



#20
Methylene Chloride
Concen: 1.400 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009745.D
Acq: 21 May 2019 14:14

Tgt Ion: 84 Resp: 2918
Ion Ratio Lower Upper
84 100
49 141.7 109.9 164.9
51 45.3 32.7 49.1
86 67.4 52.0 78.0





#25

2-Butanone

Concen: 0.323 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX009745.D

Acq: 21 May 2019 14:14

Instrument :

MSVOA_X

ClientSampled :

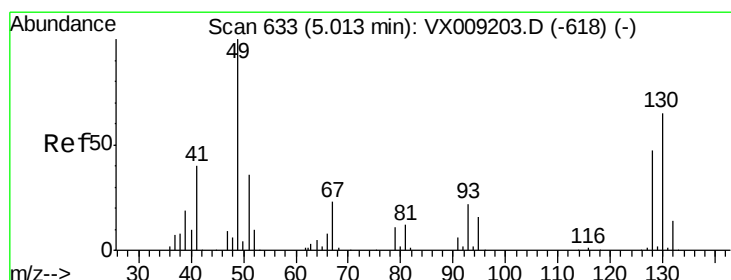
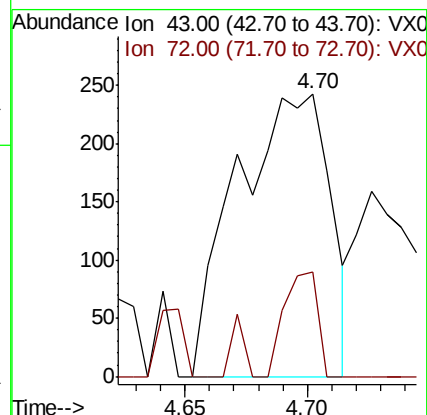
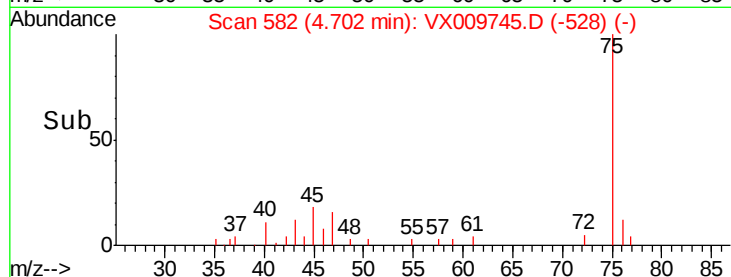
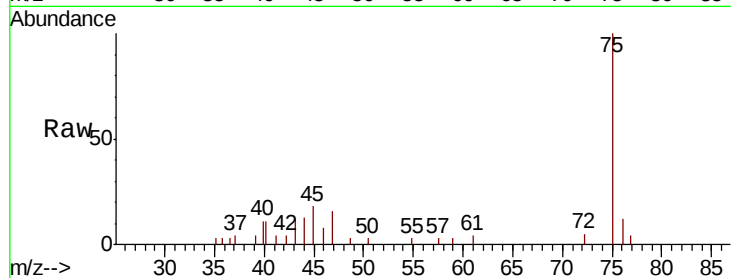
FB-051719

Tot Ion: 43 Resp: 646

Ion Ratio Lower Upper

43 100

72 37.0 18.2 27.2#



#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 629

Delta R.T. -0.02 min

Lab File: VX009745.D

Acq: 21 May 2019 14:14

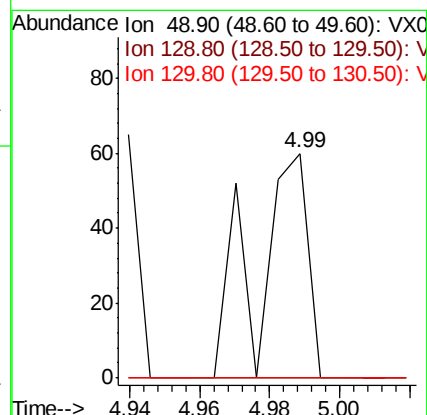
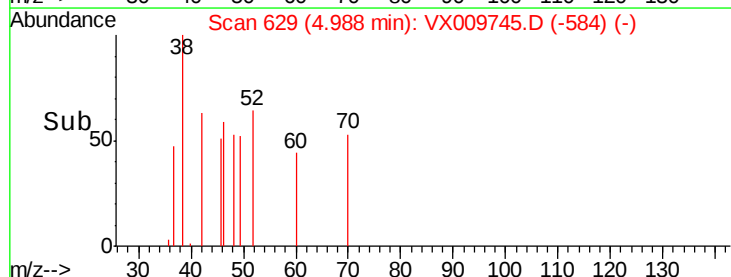
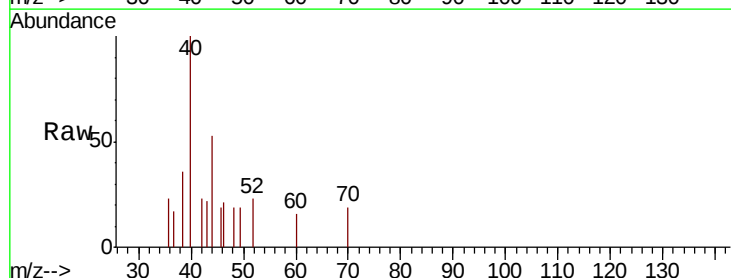
Tgt Ion: 49 Resp: 60

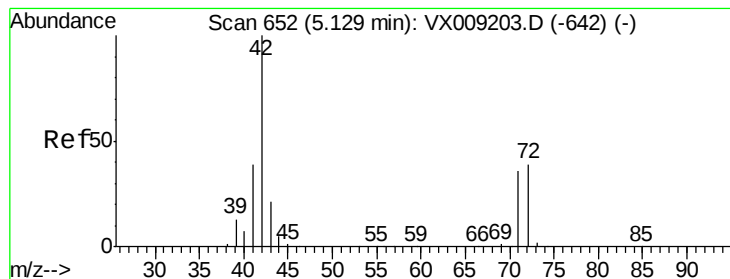
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#





#29

Tetrahydrofuran

Concen: 0.430 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX009745.D

Acq: 21 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

FB-051719

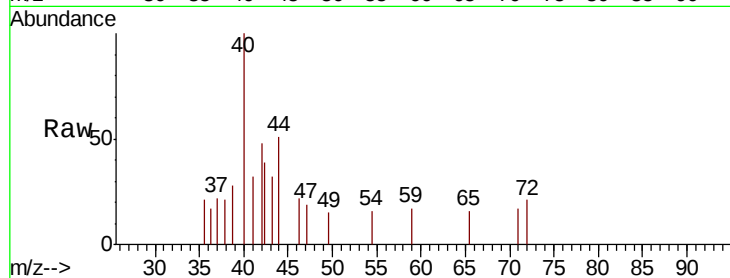
Tot Ion: 42 Resp: 553

Ion Ratio Lower Upper

42 100

72 30.0 30.4 45.6#

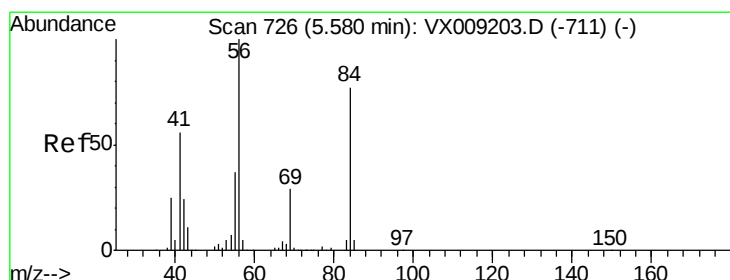
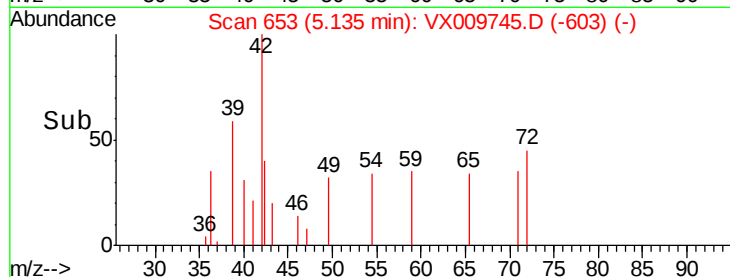
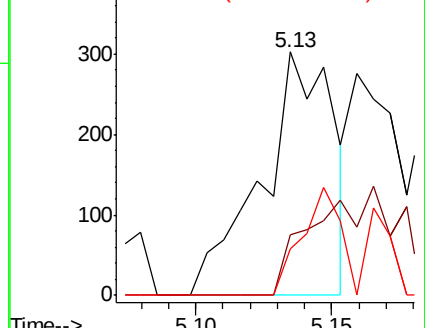
71 24.1 28.6 43.0#



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



#31

Cyclohexane

Concen: 1.185 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009745.D

Acq: 21 May 2019 14:14

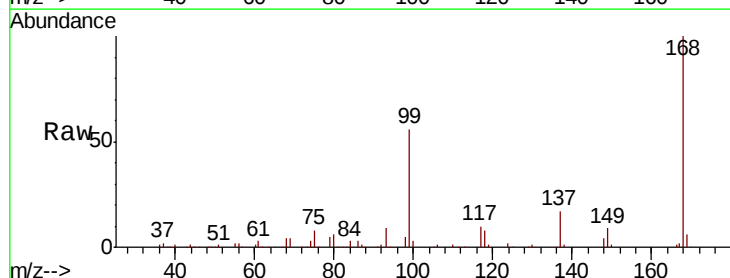
Tgt Ion: 56 Resp: 4199

Ion Ratio Lower Upper

56 100

69 171.4 23.4 35.0#

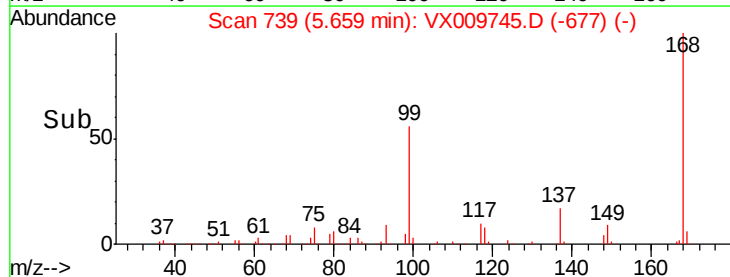
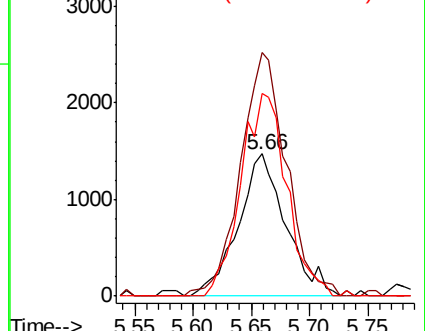
84 142.9 61.9 92.9#

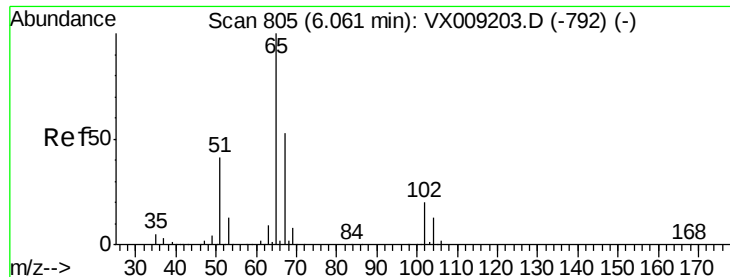


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.012 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009745.D

Acq: 21 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

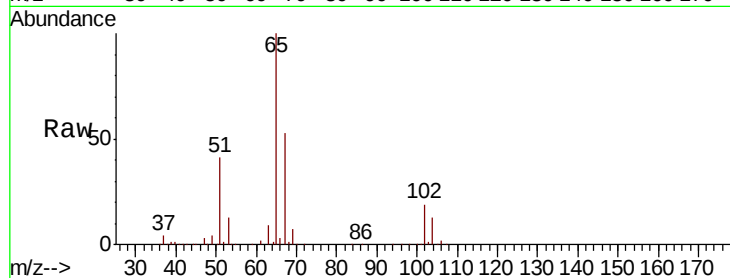
FB-051719

Tot Ion: 65 Resp: 117508

Ion Ratio Lower Upper

65 100

67 54.2 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

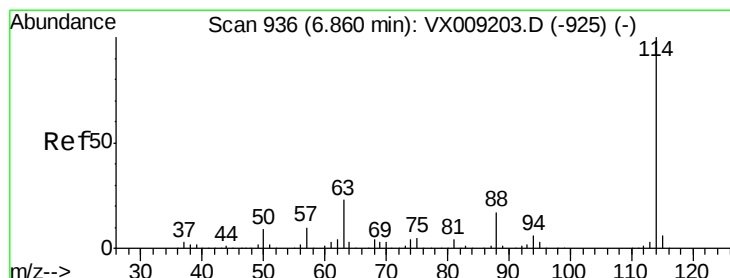
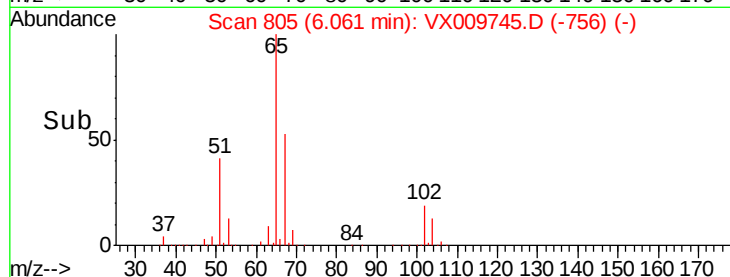
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009745.D

Acq: 21 May 2019 14:14

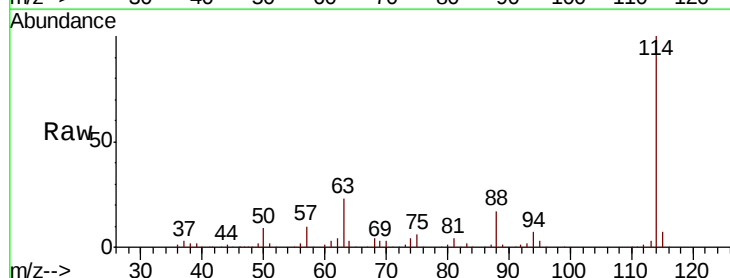
Tgt Ion: 114 Resp: 279131

Ion Ratio Lower Upper

114 100

63 23.4 0.0 45.6

88 16.6 0.0 33.2



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

6.86

150000

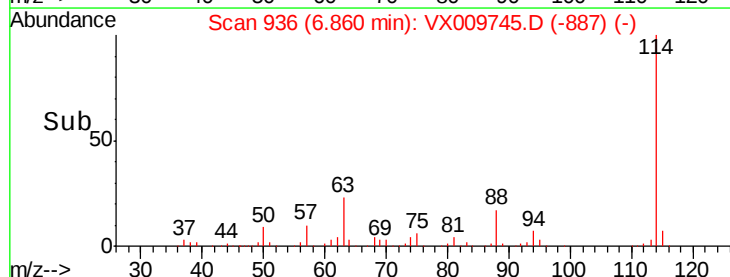
100000

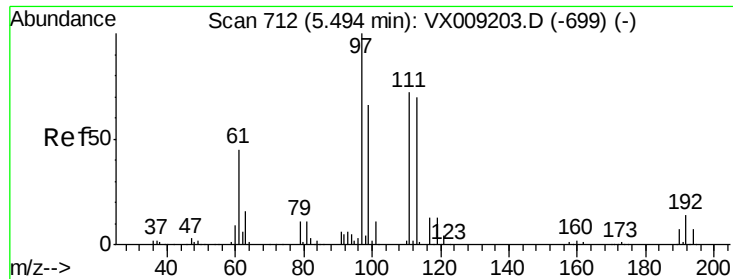
50000

0

Time-->

6.70 6.80 6.90 7.00

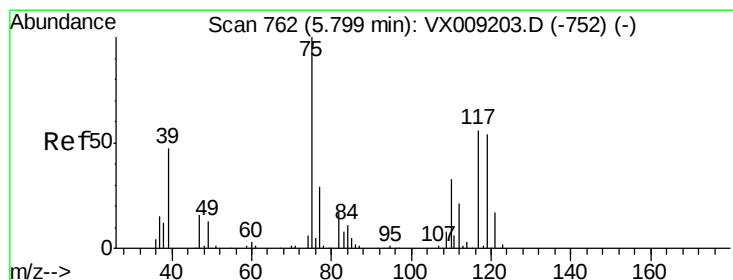
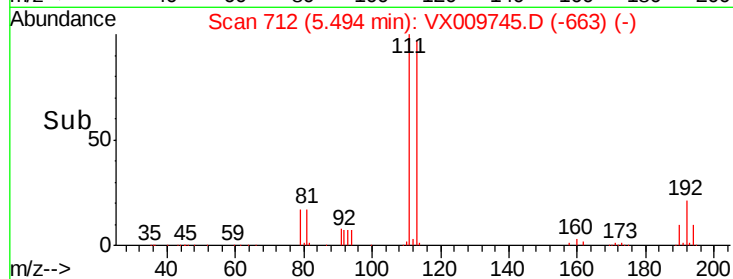
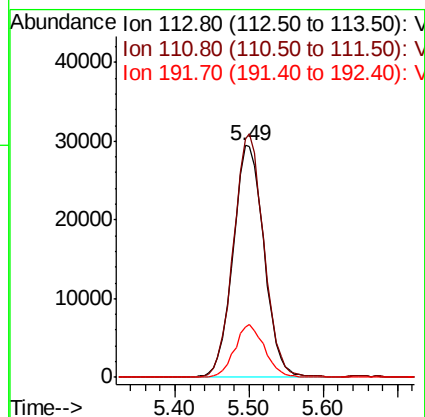
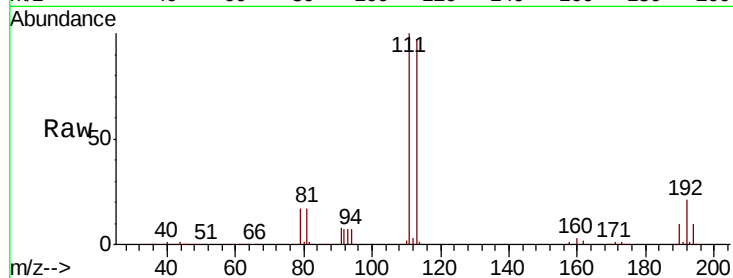




#35
 Dibromofluoromethane
 Concen: 49.043 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX009745.D
 Acq: 21 May 2019 14:14

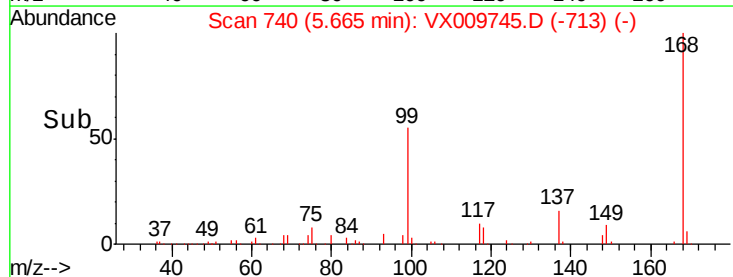
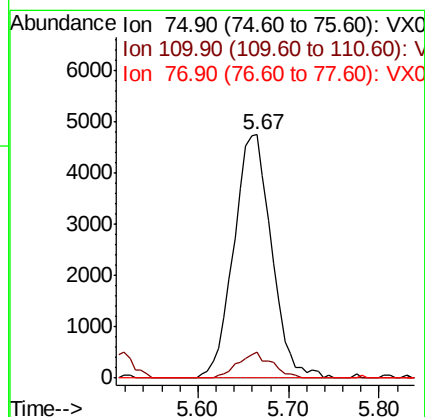
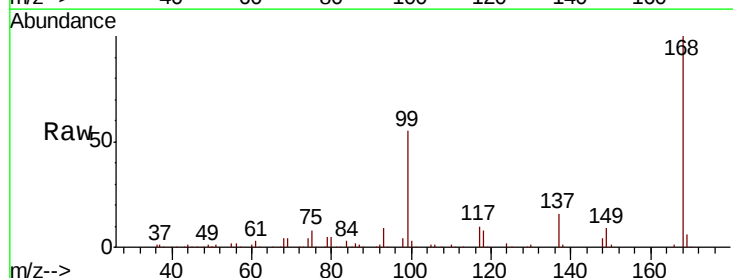
Instrument :
 MSVOA_X
 ClientSampleId :
 FB-051719

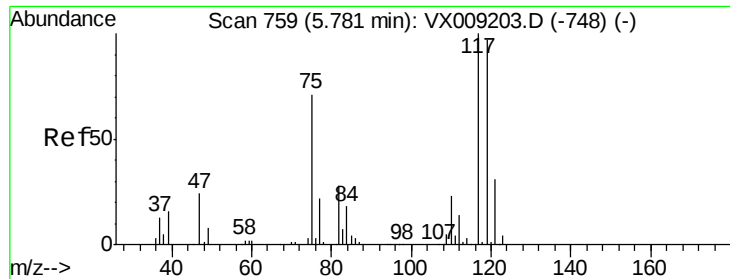
Tot Ion:113 Resp: 86058
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.8 124.2
 192 21.9 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.276 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009745.D
 Acq: 21 May 2019 14:14

Tgt Ion: 75 Resp: 13687
 Ion Ratio Lower Upper
 75 100
 110 9.5 16.9 50.6#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 7.172 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009745.D

Acq: 21 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

FB-051719

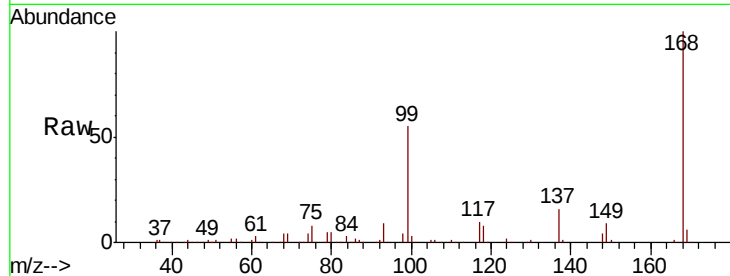
Tot Ion:117 Resp: 16904

Ion Ratio Lower Upper

117 100

119 4.7 77.5 116.3#

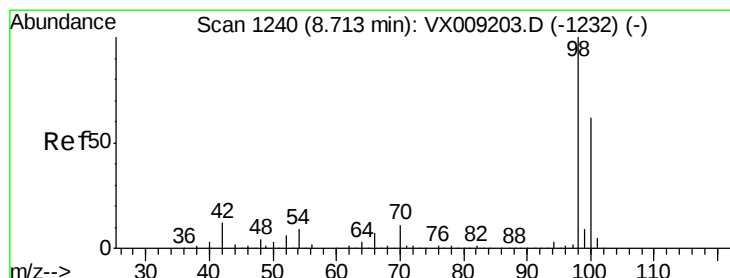
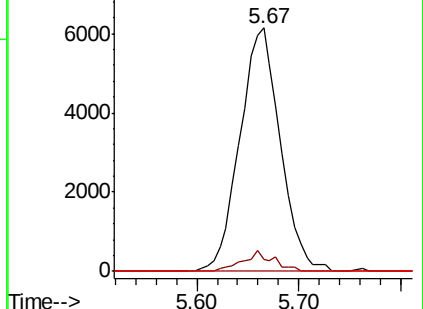
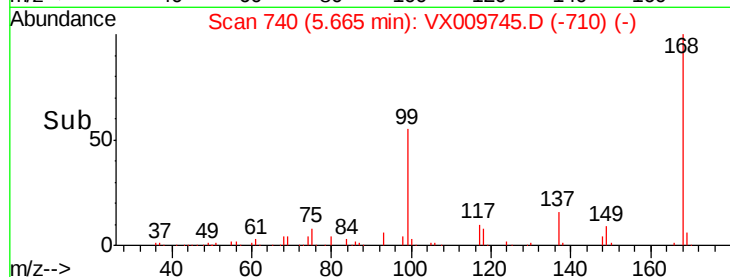
121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 50.055 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009745.D

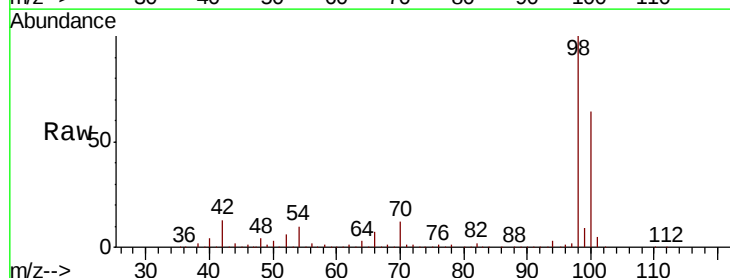
Acq: 21 May 2019 14:14

Tgt Ion: 98 Resp: 354605

Ion Ratio Lower Upper

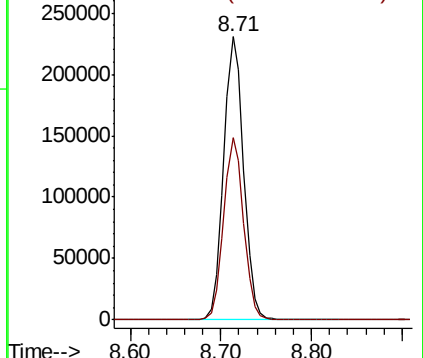
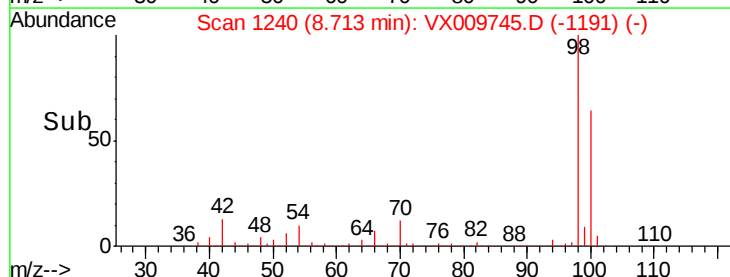
98 100

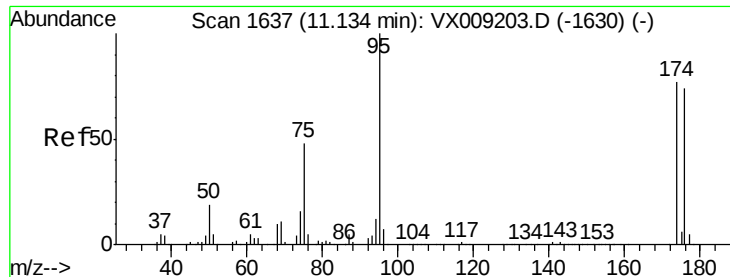
100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.245 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009745.D

Acq: 21 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

FB-051719

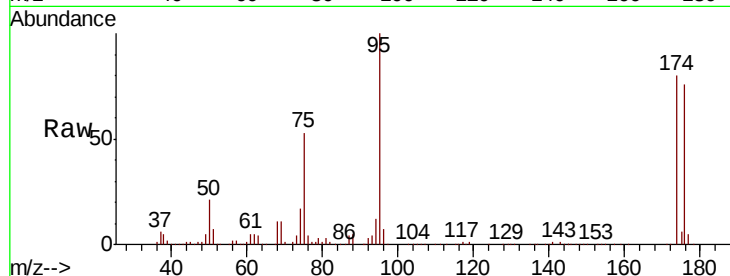
Tot Ion: 95 Resp: 119043

Ion Ratio Lower Upper

95 100

174 82.5 0.0 161.6

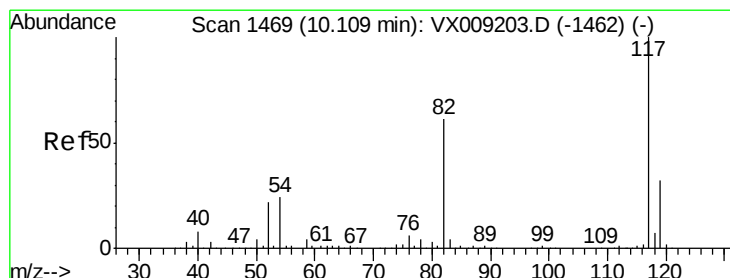
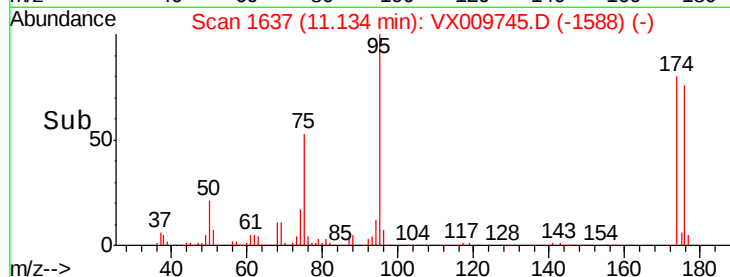
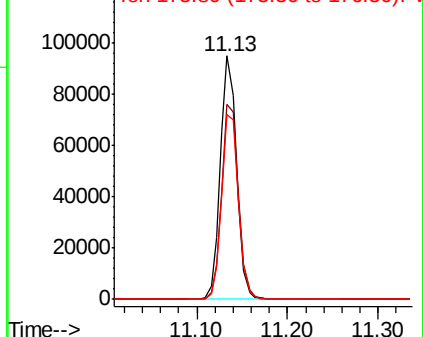
176 78.4 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009745.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009745.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009745.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009745.D

Acq: 21 May 2019 14:14

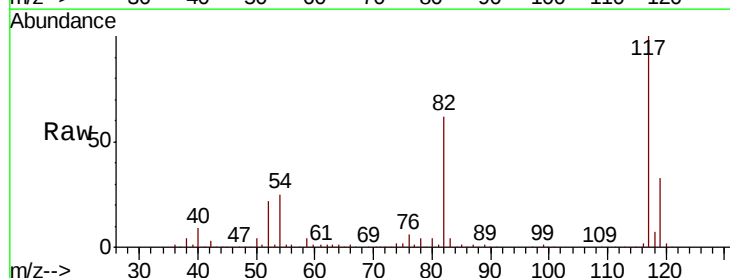
Tgt Ion: 117 Resp: 251118

Ion Ratio Lower Upper

117 100

82 61.6 48.8 73.2

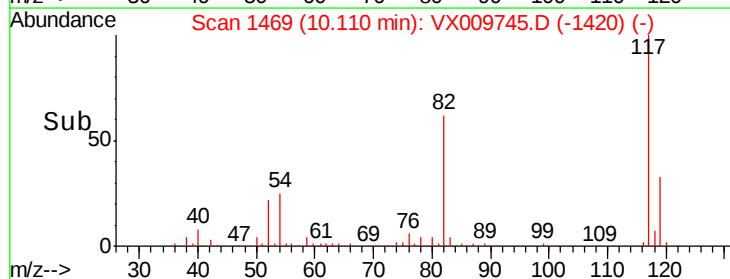
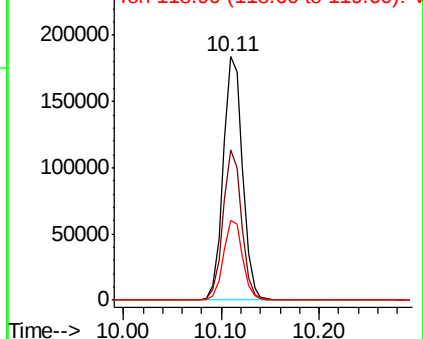
119 32.7 25.8 38.6

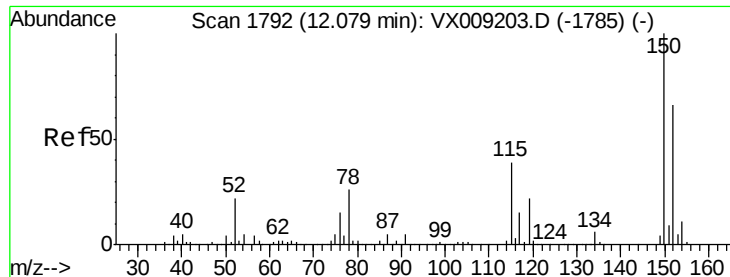


Abundance Ion 116.90 (116.60 to 117.60): VX009745.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009745.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009745.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009745.D

Acq: 21 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

FB-051719

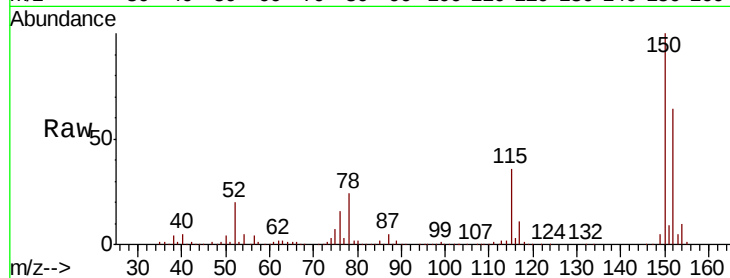
Tot Ion:152 Resp: 108763

Ion Ratio Lower Upper

152 100

115 58.9 41.2 123.6

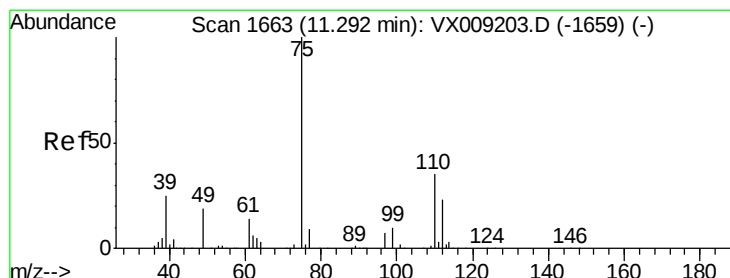
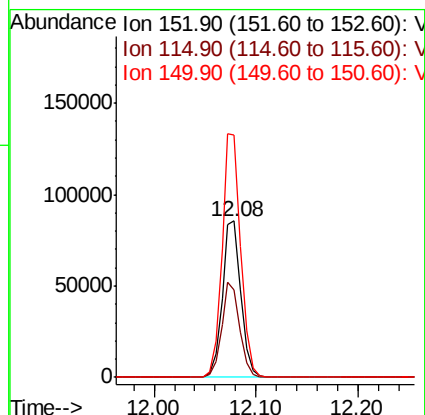
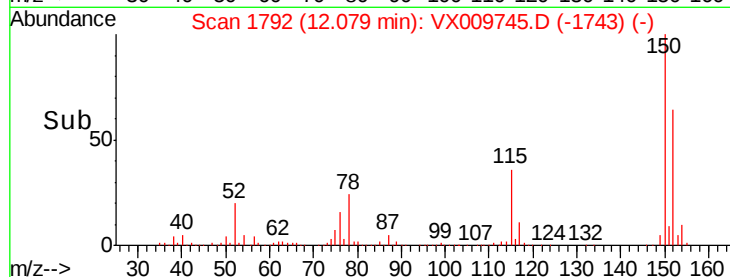
150 156.1 0.0 346.4



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: 24.292 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009745.D

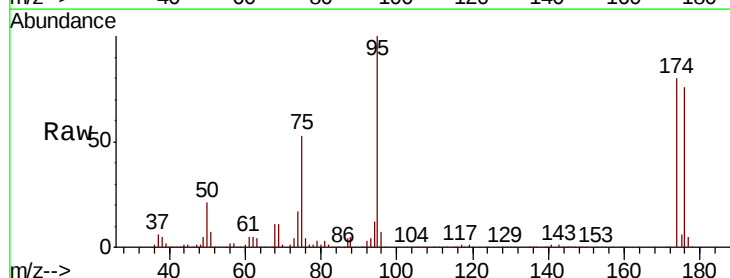
Acq: 21 May 2019 14:14

Tgt Ion: 75 Resp: 61286

Ion Ratio Lower Upper

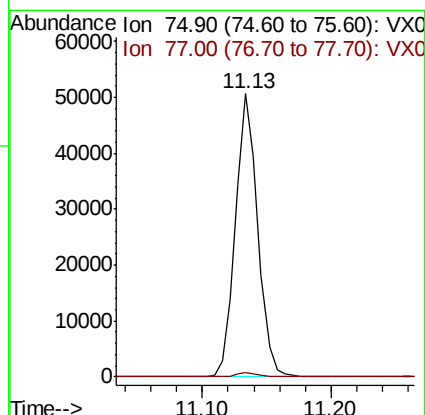
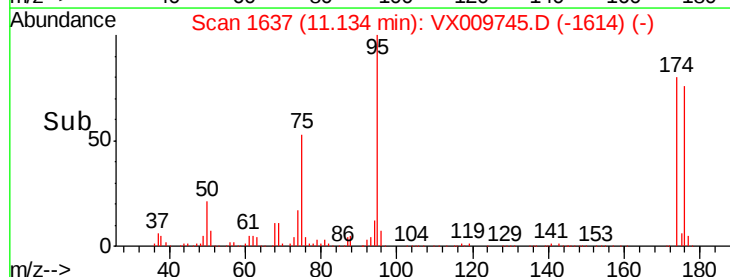
75 100

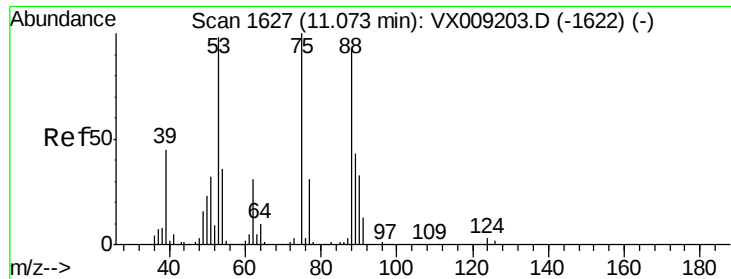
77 1.4 22.1 66.1#



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: 62.154 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009745.D

Acq: 21 May 2019 14:14

Instrument :

MSVOA_X

ClientSampleId :

FB-051719

Tot Ion: 75 Resp: 61286

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#

