

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052119\
 Data File : VX009755.D
 Acq On : 21 May 2019 18:07
 Operator : JC/SP
 Sample : K2966-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-20190520

Quant Time: May 22 07:07:10 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	172309	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	274212	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	243248	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	103400	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	115709	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
35) Dibromofluoromethane	5.50	113	85491	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
50) Toluene-d8	8.71	98	345759	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
62) 4-Bromofluorobenzene	11.13	95	114257	45.18	ug/l	0.00
Spiked Amount			Recovery	=	90.36%	

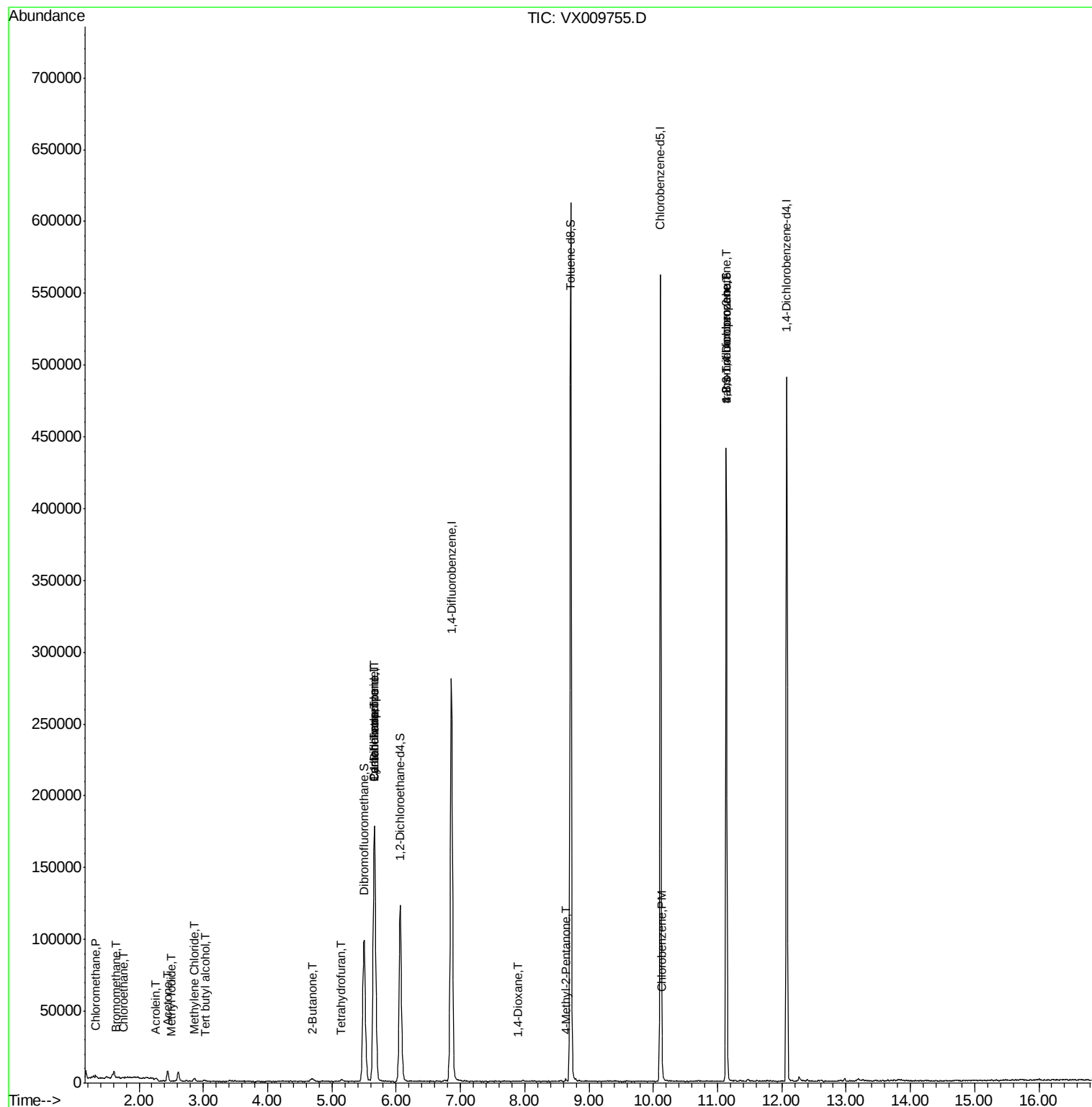
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1287	0.594	ug/l #	82
5) Bromomethane	1.65	94	297	0.234	ug/l	88
6) Chloroethane	1.75	64	716	0.528	ug/l #	73
10) Methyl Iodide	2.51	142	210	4.696	ug/l #	42
11) Tert butyl alcohol	3.03	59	842	1.546	ug/l #	80
13) Acrolein	2.27	56	209	0.424	ug/l #	49
16) Acetone	2.45	43	8609	6.816	ug/l	93
20) Methylene Chloride	2.86	84	887	0.434	ug/l #	75
25) 2-Butanone	4.70	43	2107	1.073	ug/l	98
28) Bromochloromethane	5.00	49	51	Below Cal	#	20
29) Tetrahydrofuran	5.15	42	1193	0.945	ug/l #	83
31) Cyclohexane	5.66	56	3937	1.132	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13698	5.375	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16075	6.943	ug/l #	16
49) 1,4-Dioxane	7.88	88	20	0.350	ug/l #	1
51) 4-Methyl-2-Pentanone	8.65	43	1214	0.327	ug/l	95
65) Chlorobenzene	10.14	112	2161	0.444	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	59309	24.727	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	59309	63.269	ug/l #	10

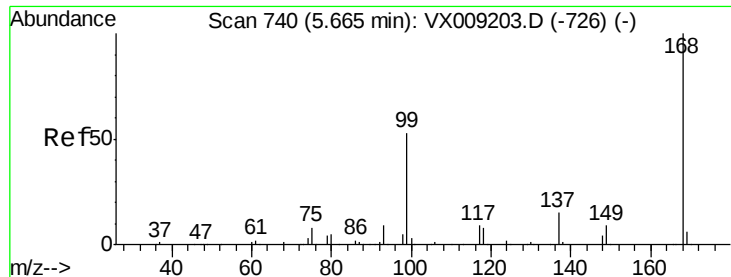
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 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: VX009755.D

Acq: 21 May 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

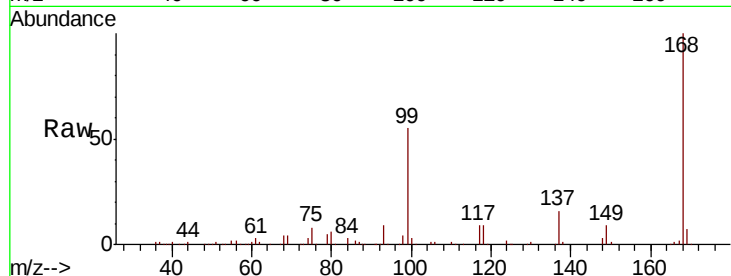
FB-20190520

Tot Ion:168 Resp: 172309

Ion Ratio Lower Upper

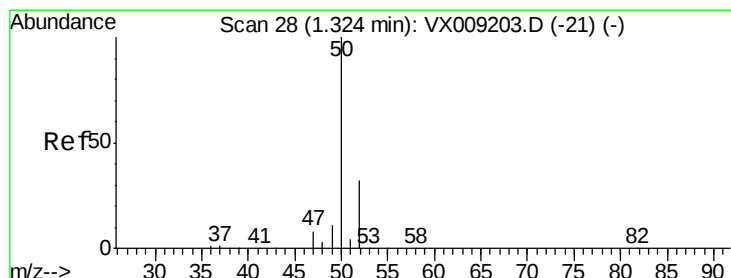
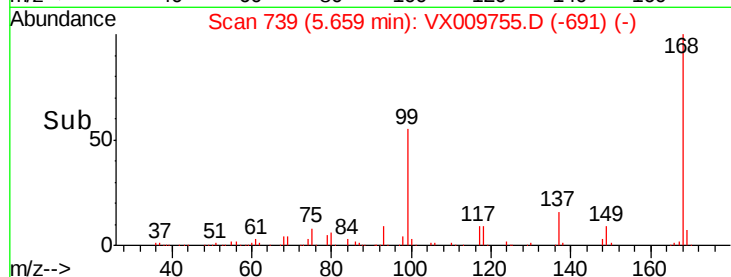
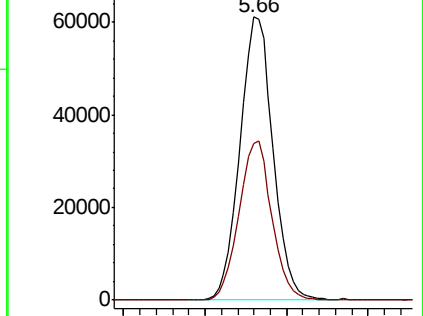
168 100

99 55.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.594 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009755.D

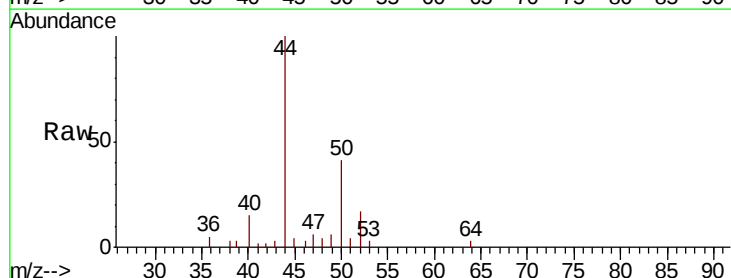
Acq: 21 May 2019 18:07

Tgt Ion: 50 Resp: 1287

Ion Ratio Lower Upper

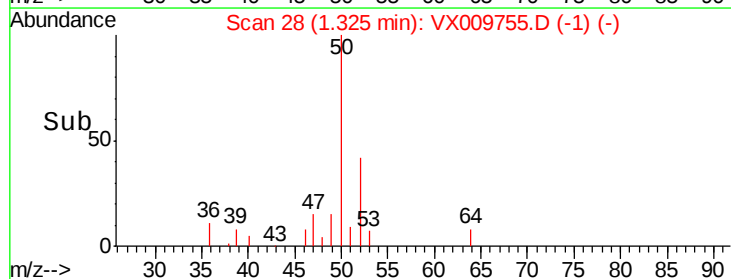
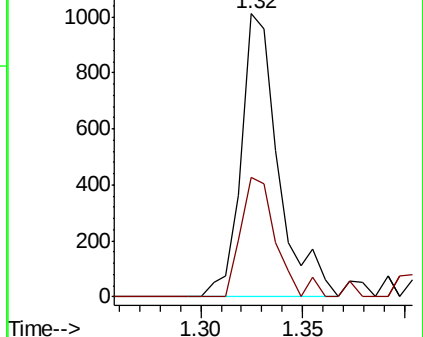
50 100

52 42.2 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.234 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX009755.D

Acq: 21 May 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

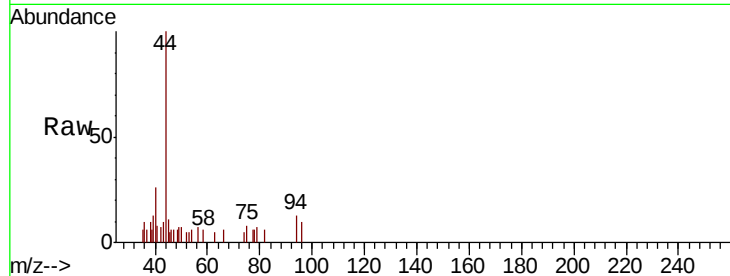
FB-20190520

Tot Ion: 94 Resp: 297

Ion Ratio Lower Upper

94 100

96 80.1 73.0 109.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

150

100

50

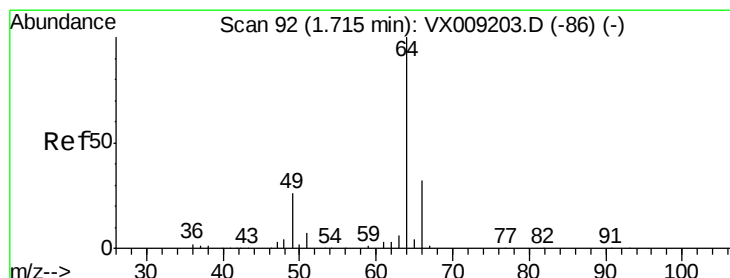
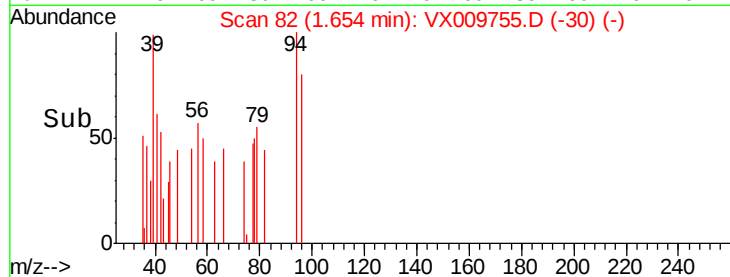
0

1.60

1.65

1.70

Time-->



#6

Chloroethane

Concen: 0.528 ug/l

RT: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX009755.D

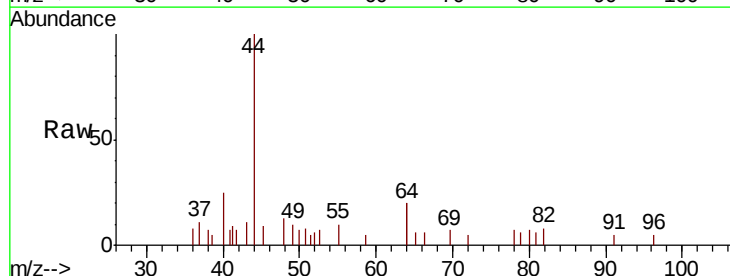
Acq: 21 May 2019 18:07

Tgt Ion: 64 Resp: 716

Ion Ratio Lower Upper

64 100

66 16.4 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

600

500

400

300

200

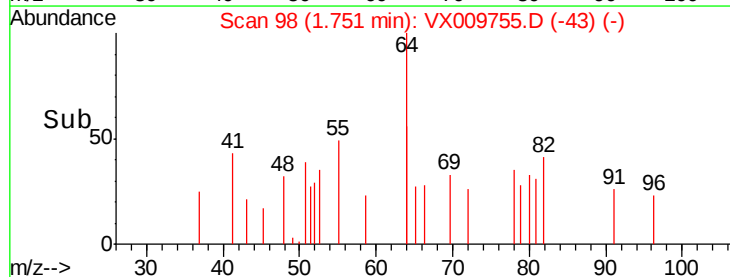
100

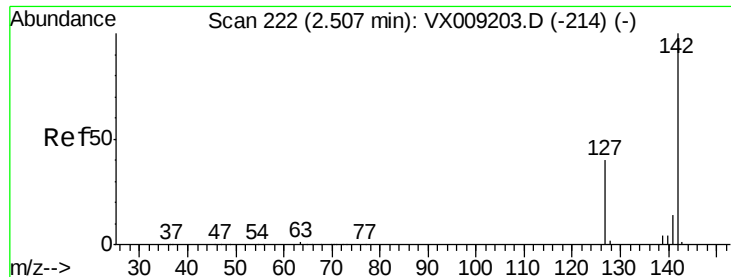
0

1.70

1.75

Time-->

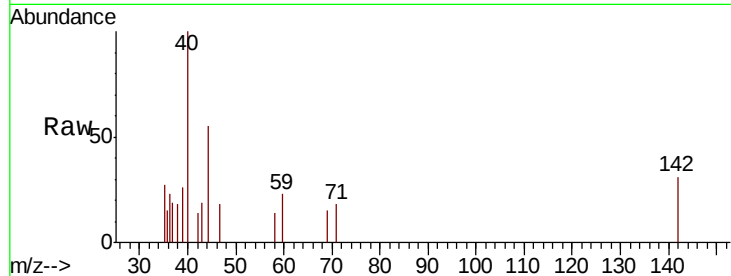




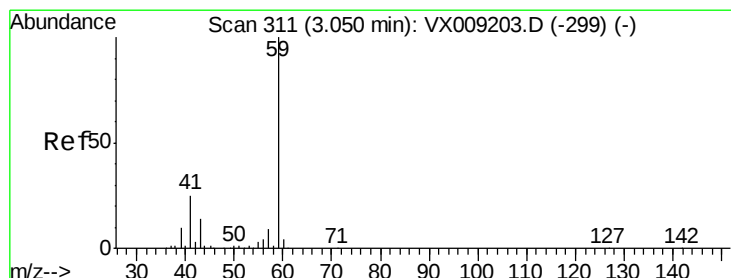
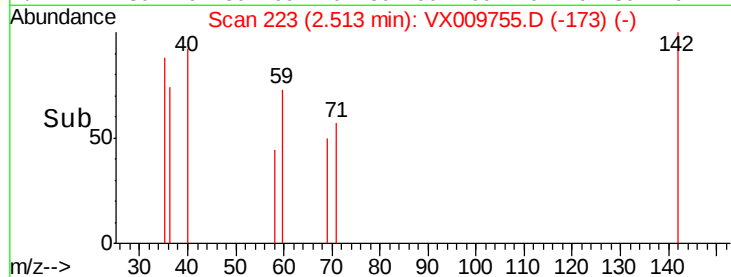
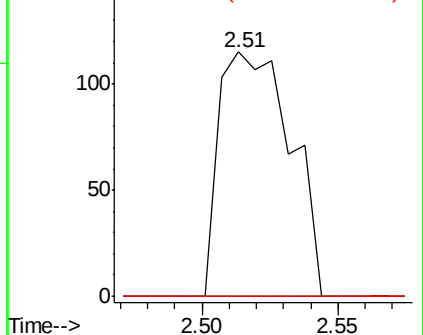
#10
Methyl Iodide
Concen: 4.696 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009755.D
Acq: 21 May 2019 18:07

Instrument :
MSVOA_X
ClientSampled :
FB-20190520

Tot Ion:142 Resp: 210
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

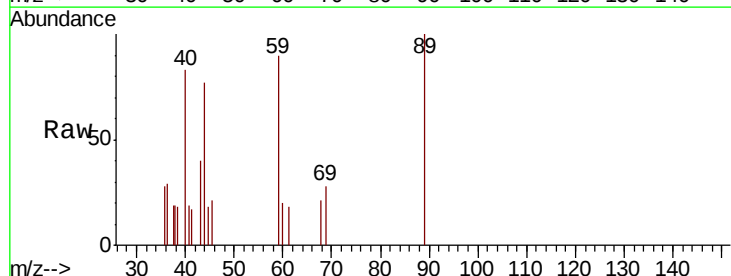


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

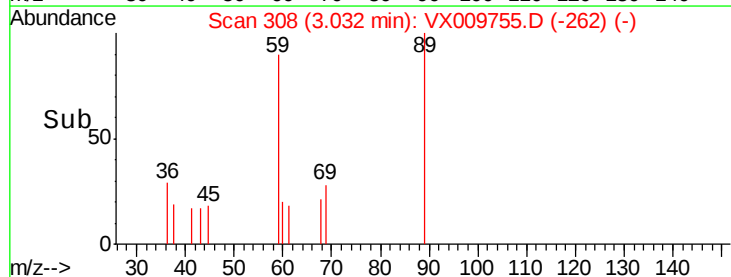
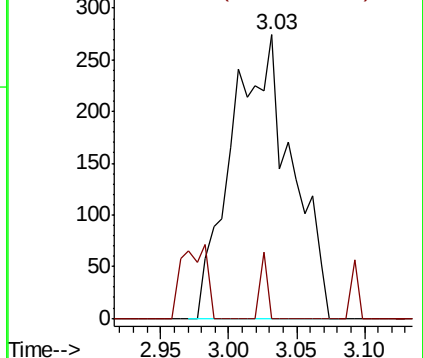


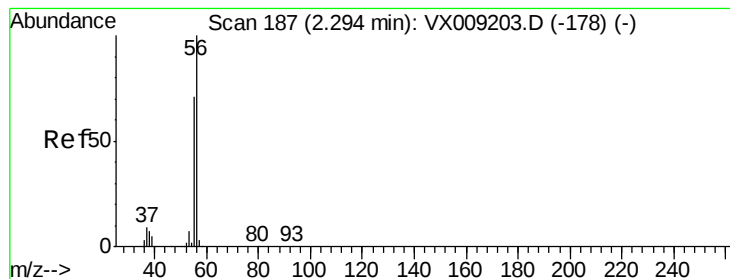
#11
Tert butyl alcohol
Concen: 1.546 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX009755.D
Acq: 21 May 2019 18:07

Tgt Ion: 59 Resp: 842
Ion Ratio Lower Upper
59 100
57 2.7 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.424 ug/l

RT: 2.27 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX009755.D

Acq: 21 May 2019 18:07

Instrument :

MSVOA_X

ClientSampled :

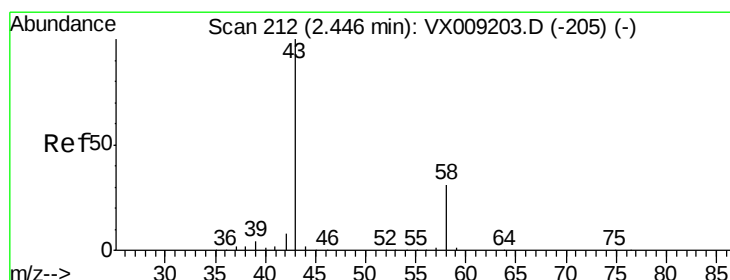
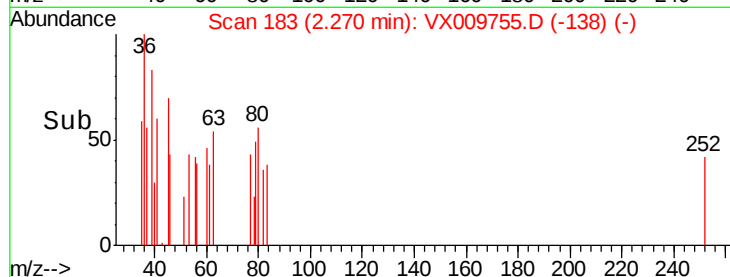
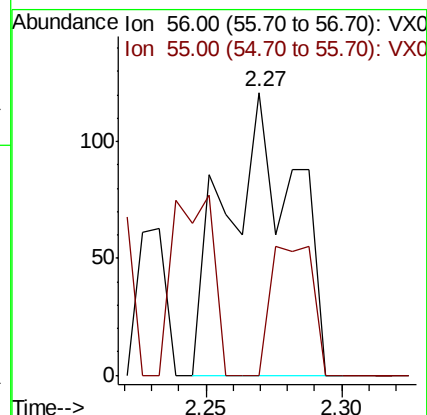
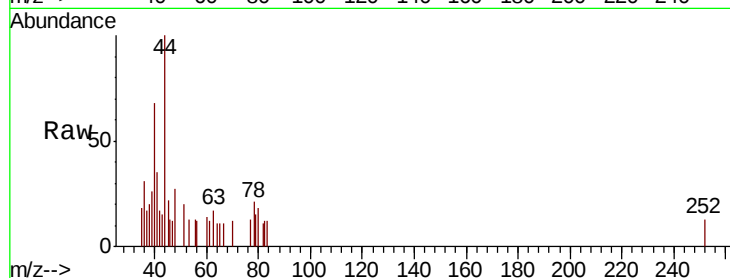
FB-20190520

Tot Ion: 56 Resp: 209

Ion Ratio Lower Upper

56 100

55 28.7 56.6 85.0#



#16

Acetone

Concen: 6.816 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009755.D

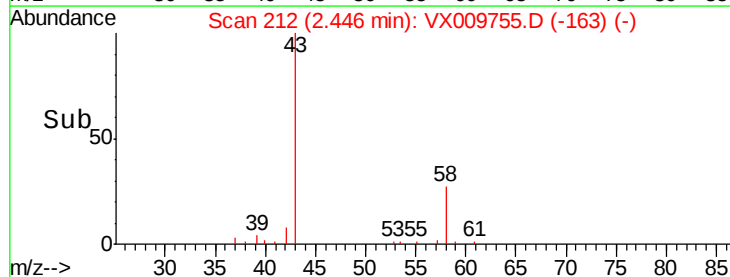
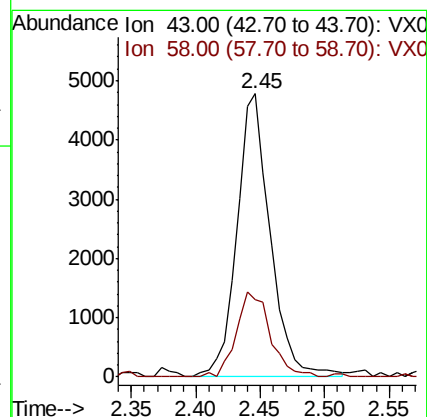
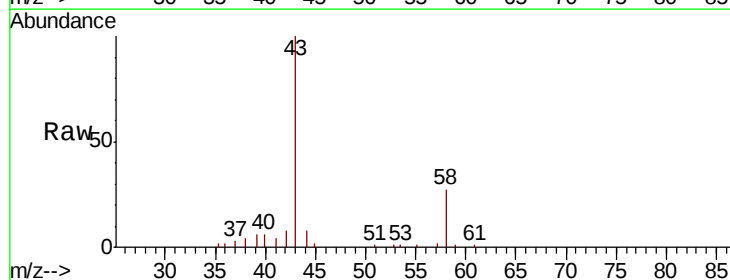
Acq: 21 May 2019 18:07

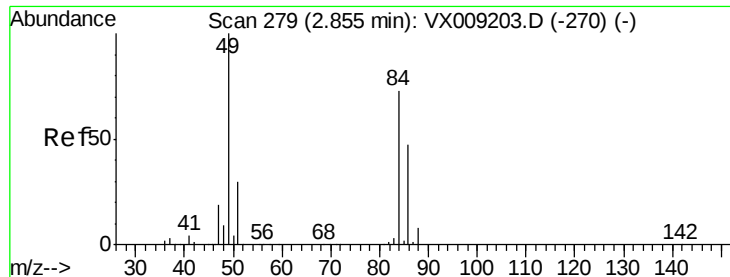
Tgt Ion: 43 Resp: 8609

Ion Ratio Lower Upper

43 100

58 27.5 24.9 37.3

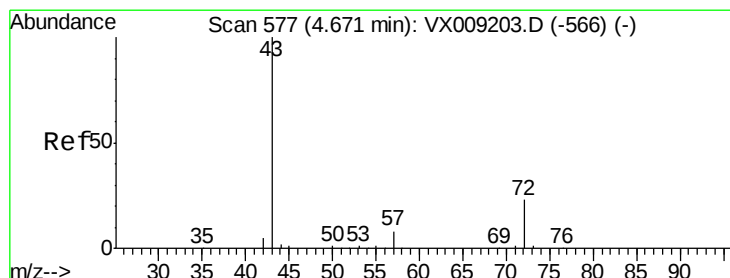
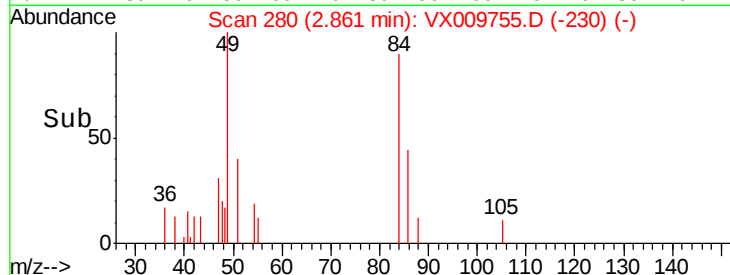
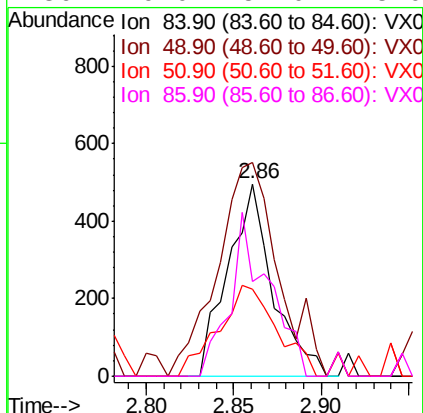
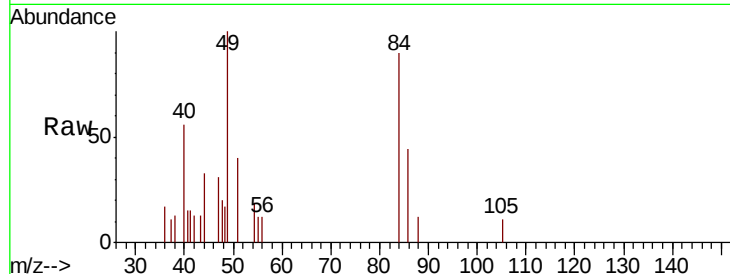




#20
Methvlene Chloride
Concen: 0.434 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009755.D
Acq: 21 May 2019 18:07

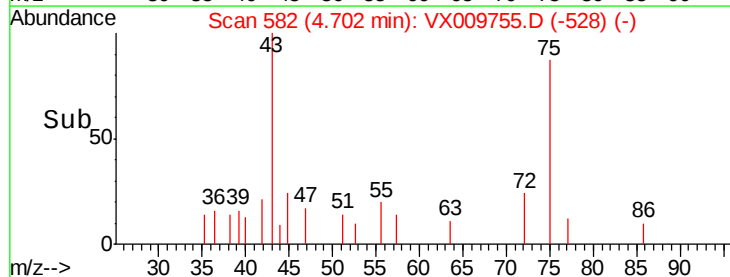
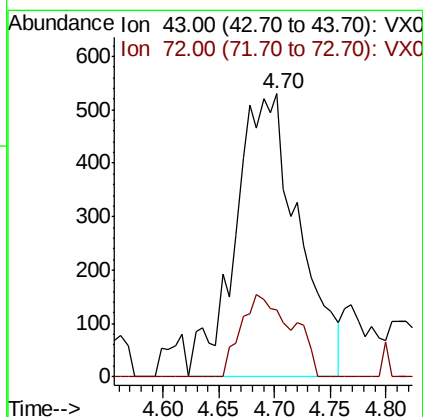
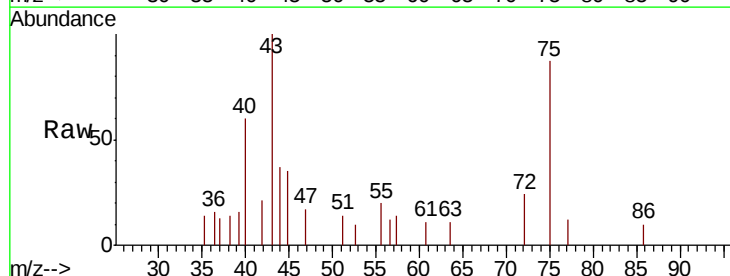
Instrument :
MSVOA_X
ClientSampleId :
FB-20190520

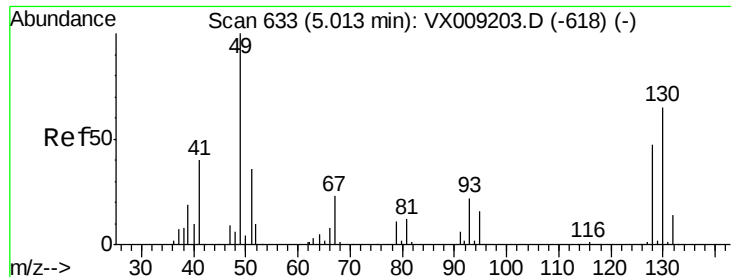
Tot Ion: 84 Resp: 887
Ion Ratio Lower Upper
84 100
49 98.8 109.9 164.9#
51 34.5 32.7 49.1
86 49.0 52.0 78.0#



#25
2-Butanone
Concen: 1.073 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.03 min
Lab File: VX009755.D
Acq: 21 May 2019 18:07

Tgt Ion: 43 Resp: 2107
Ion Ratio Lower Upper
43 100
72 23.8 18.2 27.2





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

Delta R.T. -0.01 min

Lab File: VX009755.D

Acq: 21 May 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

FB-20190520

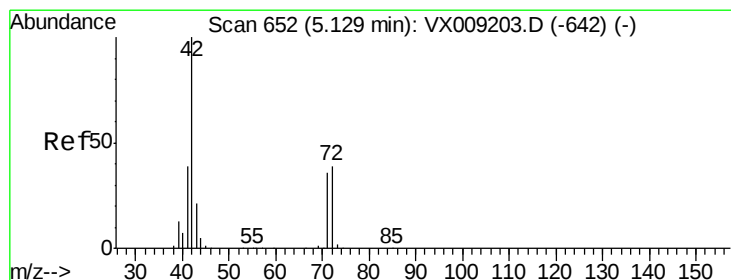
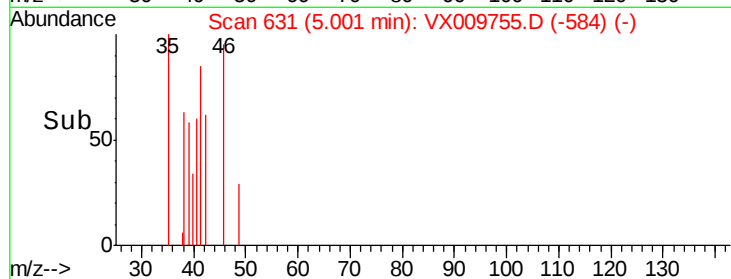
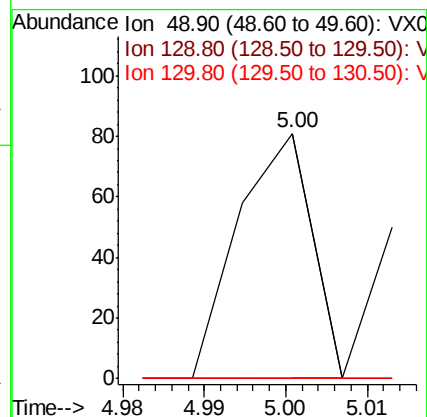
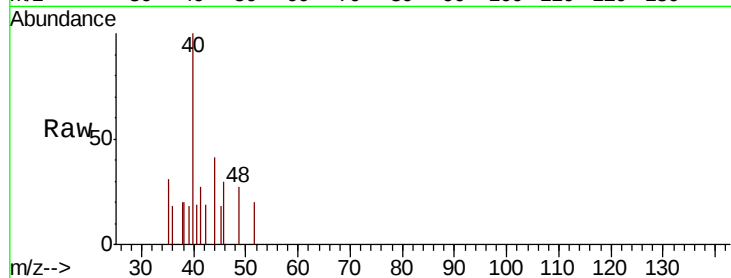
Tot Ion: 49 Resp: 51

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#



#29

Tetrahydrofuran

Concen: 0.945 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX009755.D

Acq: 21 May 2019 18:07

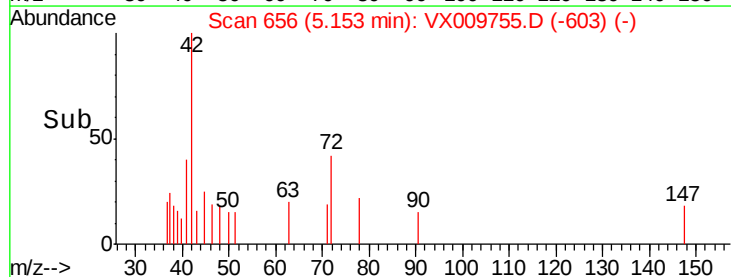
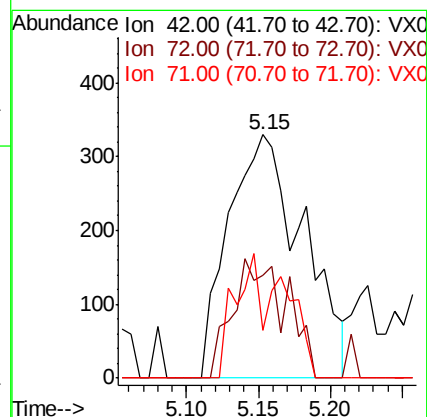
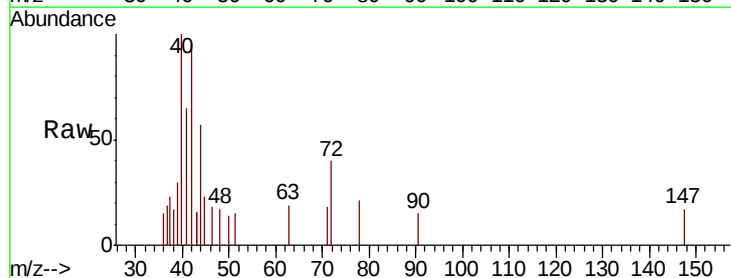
Tgt Ion: 42 Resp: 1193

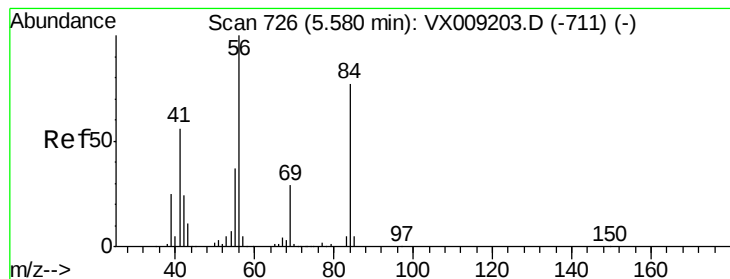
Ion Ratio Lower Upper

42 100

72 35.2 30.4 45.6

71 17.6 28.6 43.0#





#31

Cyclohexane

Concen: 1.132 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009755.D

Acq: 21 May 2019 18:07

Instrument :

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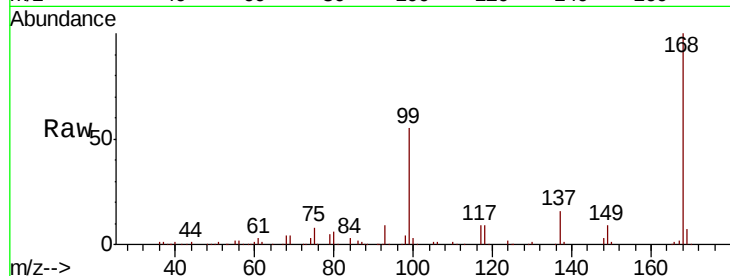
Tot Ion: 56 Resp: 3937

Ion Ratio Lower Upper

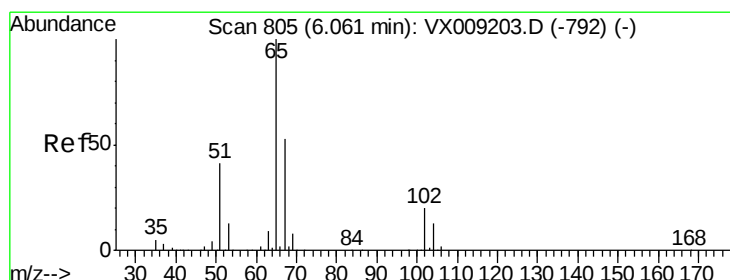
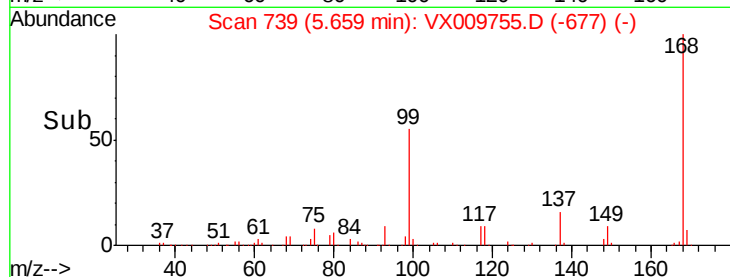
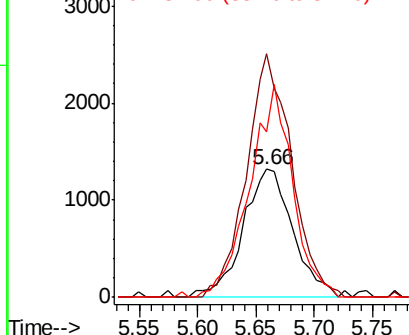
56 100

69 190.1 23.4 35.0#

84 129.4 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: 49.191 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009755.D

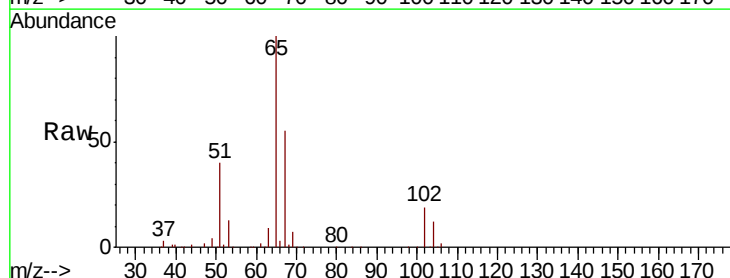
Acq: 21 May 2019 18:07

Tgt Ion: 65 Resp: 115709

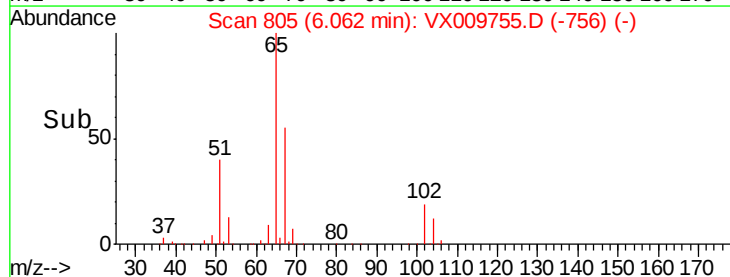
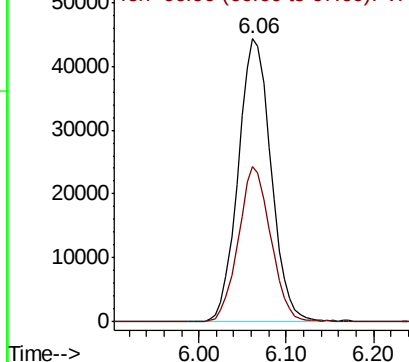
Ion Ratio Lower Upper

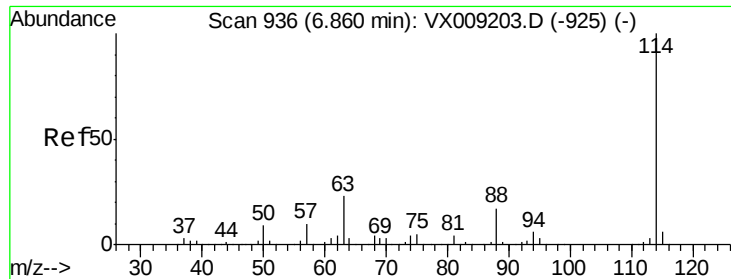
65 100

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

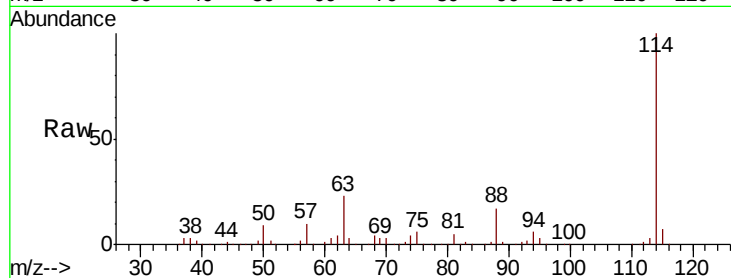




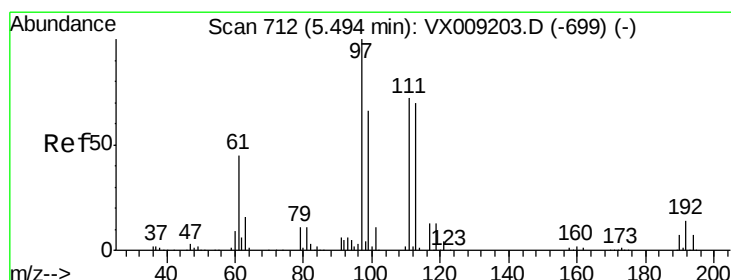
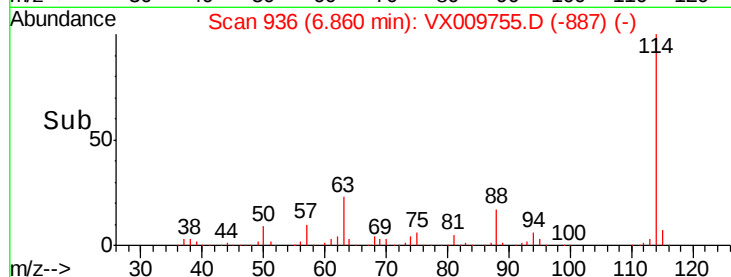
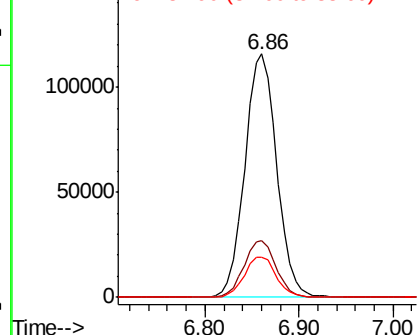
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009755.D
 Acq: 21 May 2019 18:07

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-20190520

Tot Ion:114 Resp: 274212
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 45.6
 88 16.7 0.0 33.2

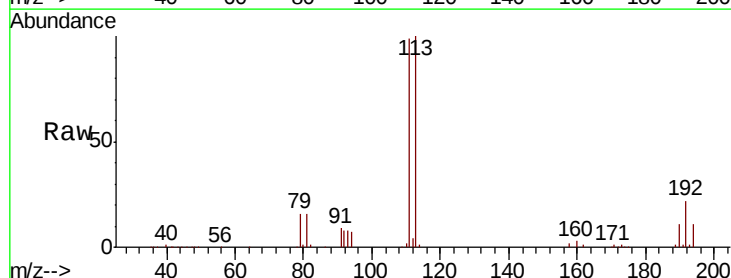


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

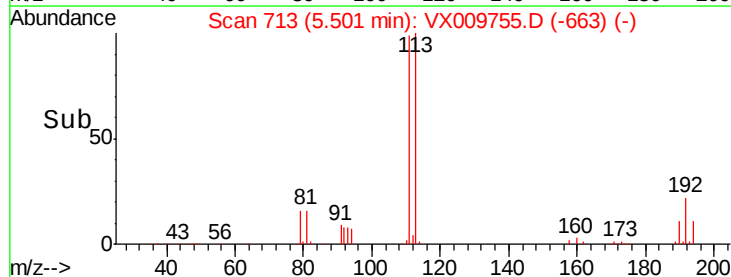
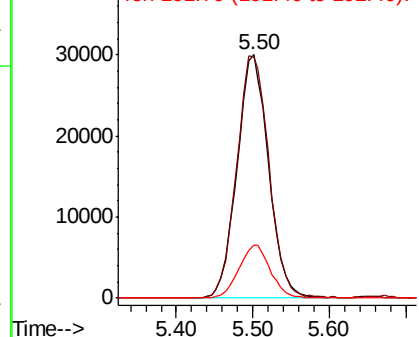


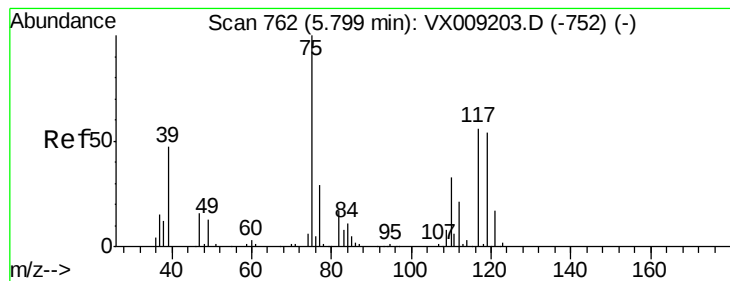
#35
 Dibromofluoromethane
 Concen: 49.594 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009755.D
 Acq: 21 May 2019 18:07

Tgt Ion:113 Resp: 85491
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.8 124.2
 192 21.7 17.0 25.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.375 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009755.D

Acq: 21 May 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

FB-20190520

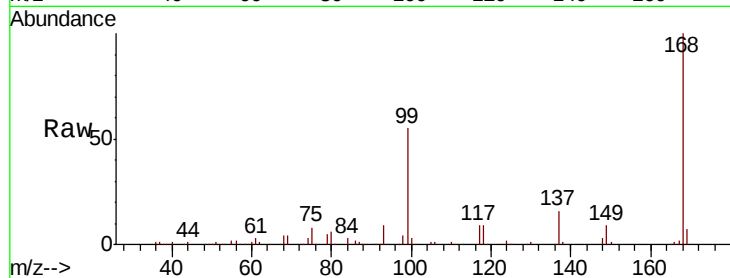
Tot Ion: 75 Resp: 13698

Ion Ratio Lower Upper

75 100

110 9.3 16.9 50.6#

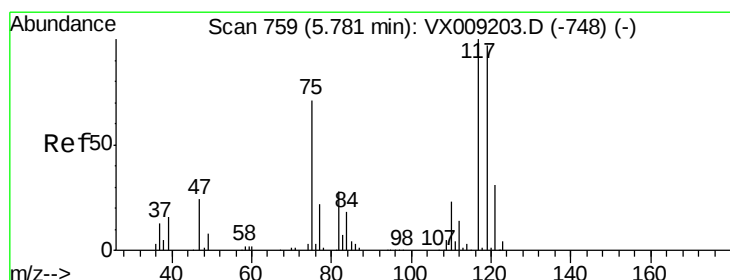
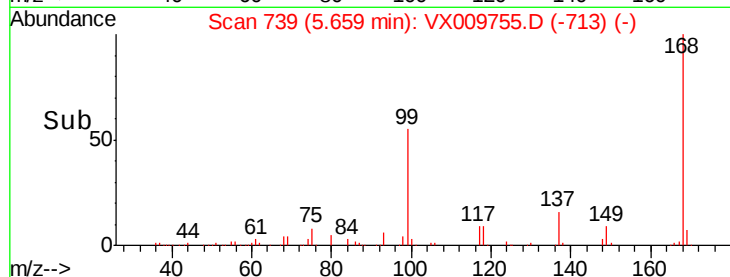
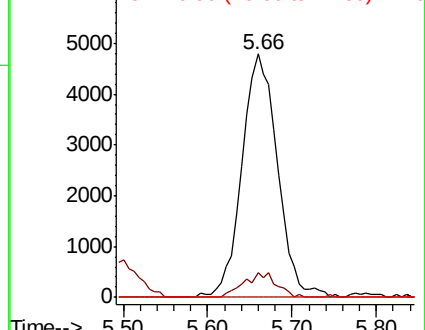
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.943 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009755.D

Acq: 21 May 2019 18:07

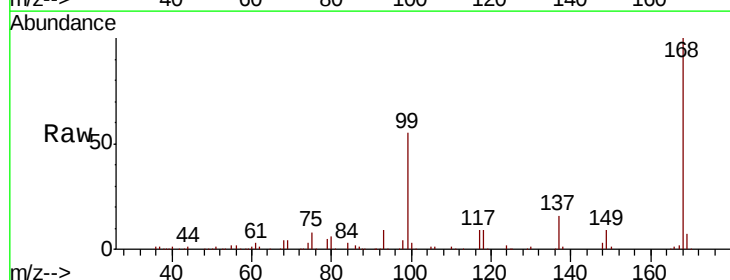
Tgt Ion: 117 Resp: 16075

Ion Ratio Lower Upper

117 100

119 5.2 77.5 116.3#

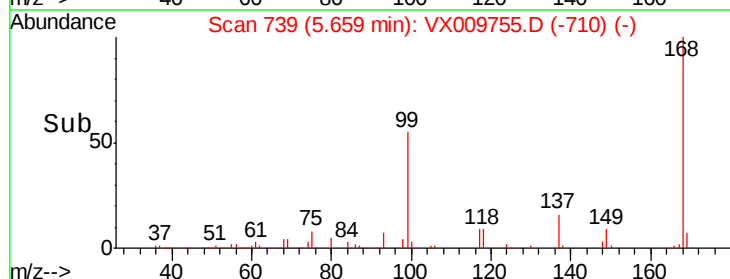
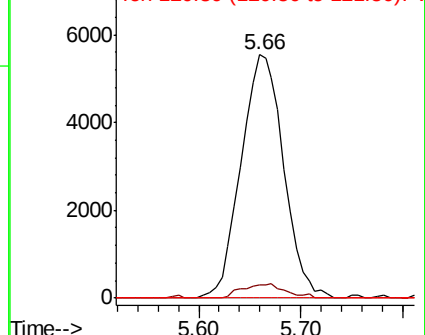
121 0.0 24.7 37.1#

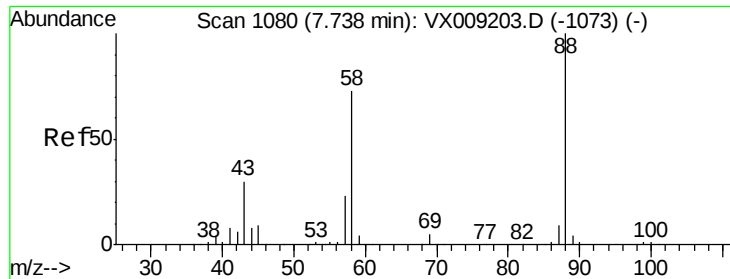


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.350 ug/l

RT: 7.88 min Scan# 1104

Delta R.T. 0.15 min

Lab File: VX009755.D

Acq: 21 May 2019 18:07

Instrument :

MSVOA_X

ClientSampled :

FB-20190520

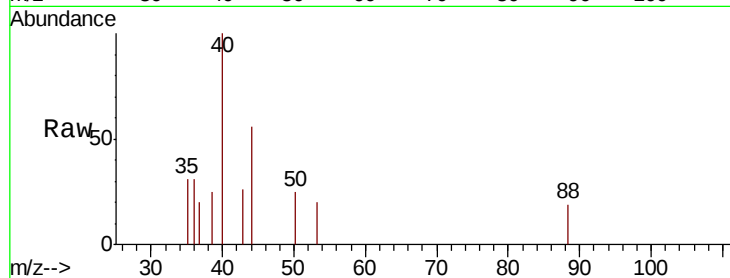
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 665.0 28.6 42.8#

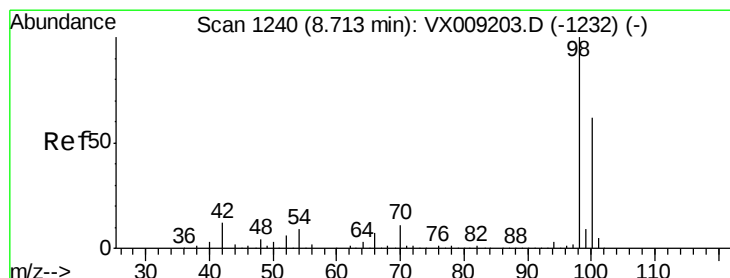
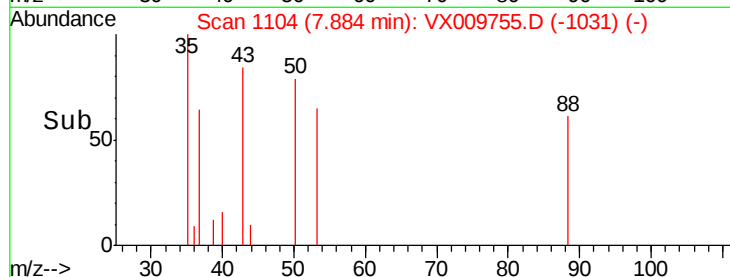
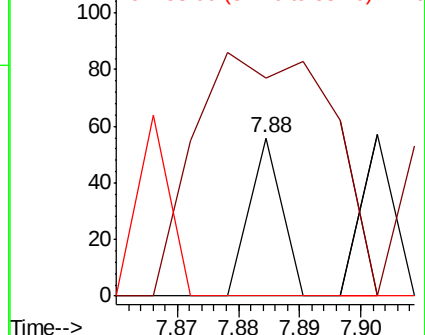
58 115.0 61.7 92.5#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.682 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009755.D

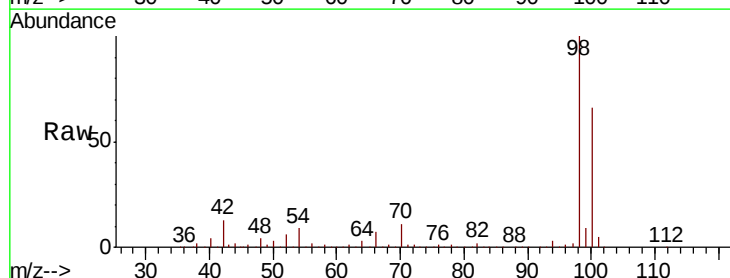
Acq: 21 May 2019 18:07

Tgt Ion: 98 Resp: 345759

Ion Ratio Lower Upper

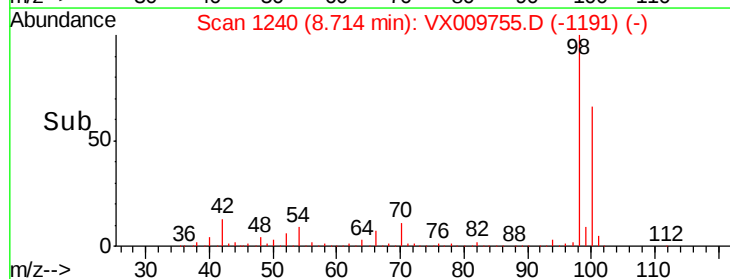
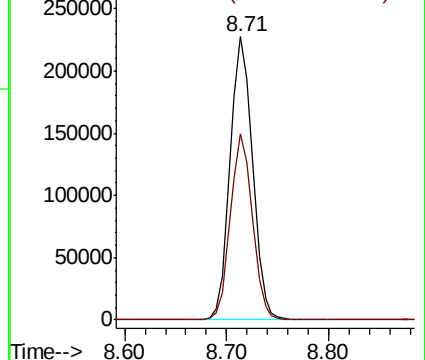
98 100

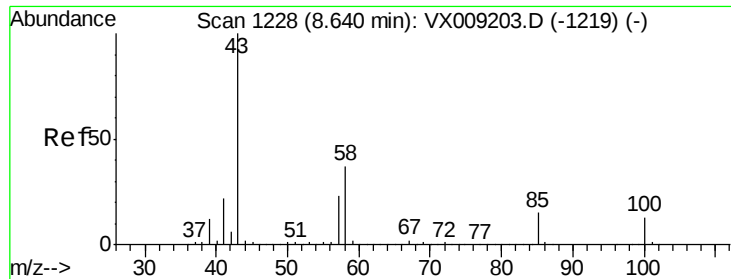
100 64.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.327 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. 0.01 min

Lab File: VX009755.D

Acq: 21 May 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

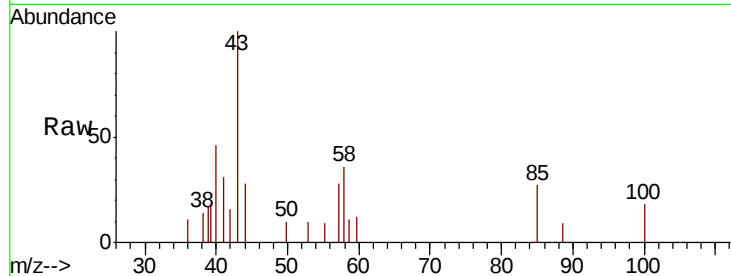
FB-20190520

Tot Ion: 43 Resp: 1214

Ion Ratio Lower Upper

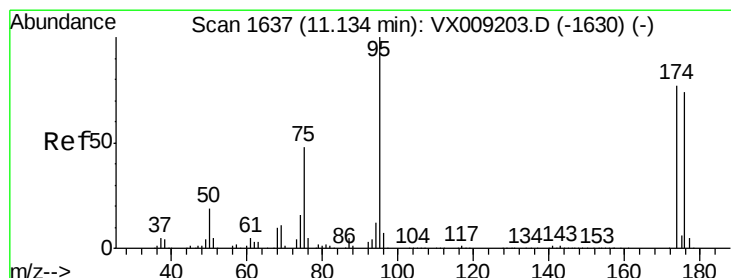
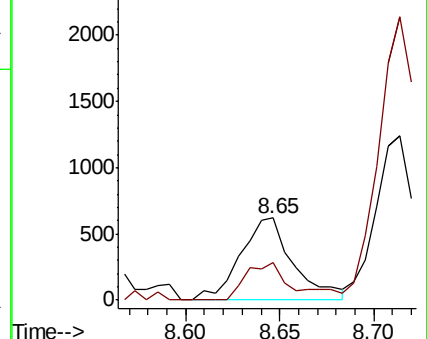
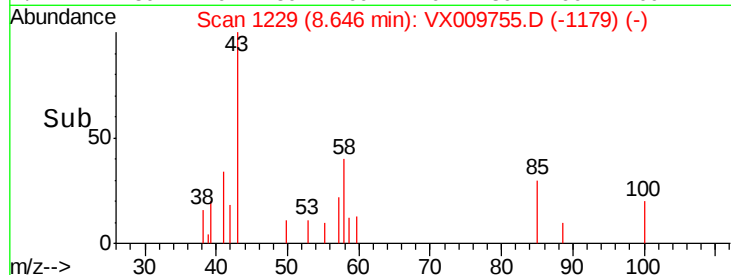
43 100

58 39.9 29.5 44.3



Abundance Ion 43.00 (42.70 to 43.70): VX009755.D (-1179) (-)

Ion 58.00 (57.70 to 58.70): VX009755.D (-1179) (-)



#62

4-Bromofluorobenzene

Concen: 45.182 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009755.D

Acq: 21 May 2019 18:07

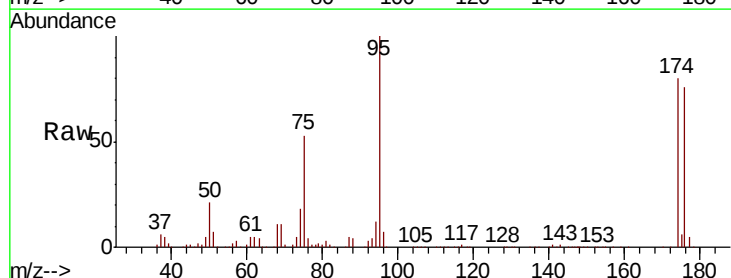
Tgt Ion: 95 Resp: 114257

Ion Ratio Lower Upper

95 100

174 81.6 0.0 161.6

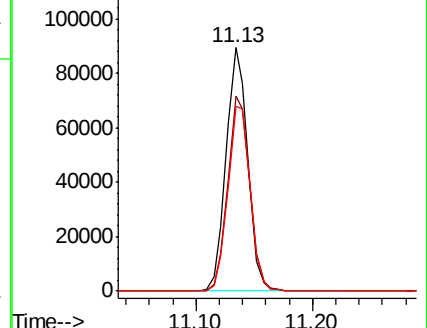
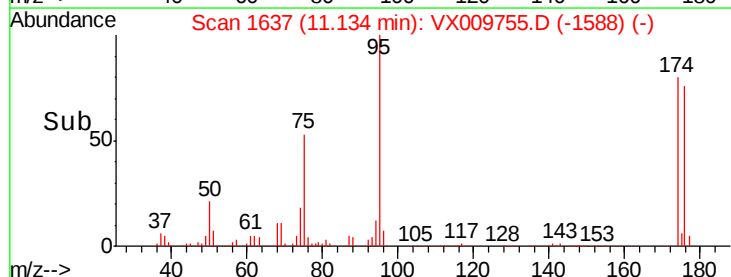
176 78.7 0.0 159.2

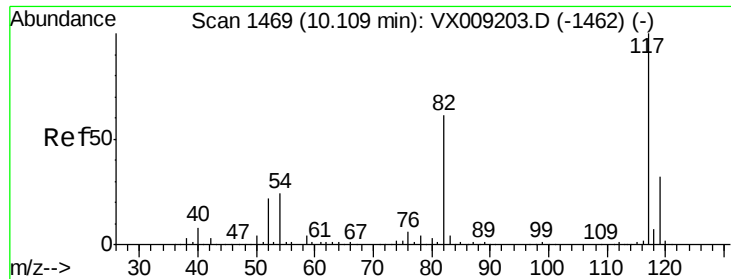


Abundance Ion 94.90 (94.60 to 95.60): VX009755.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009755.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009755.D (-1588) (-)

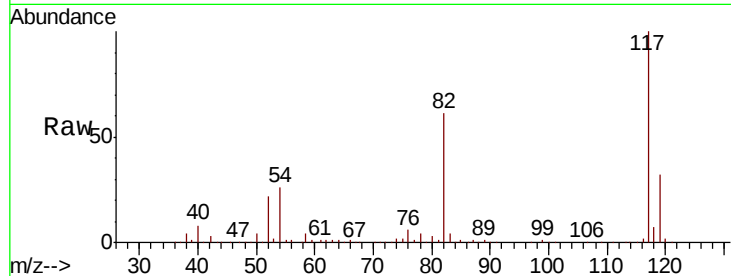




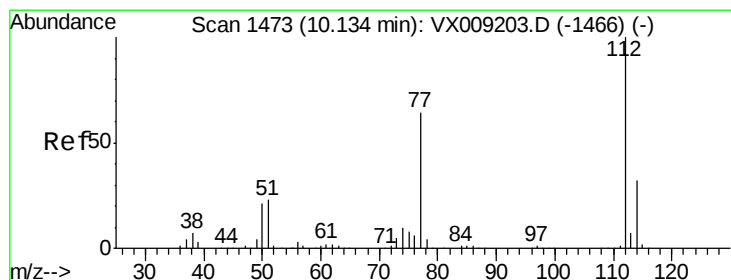
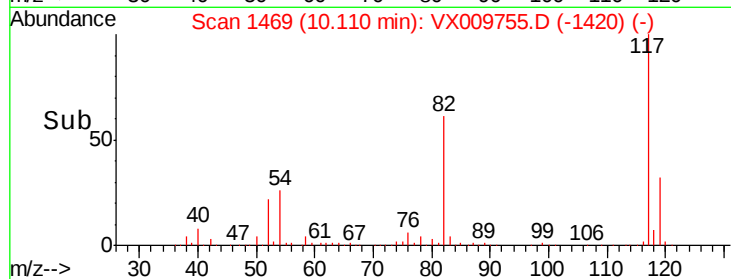
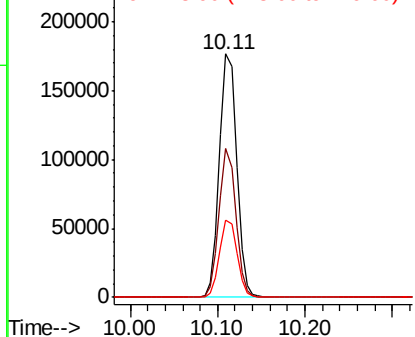
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009755.D
Acq: 21 May 2019 18:07

Instrument :
MSVOA_X
ClientSampleId :
FB-20190520

Tot Ion:117 Resp: 243248
Ion Ratio Lower Upper
117 100
82 61.4 48.8 73.2
119 31.6 25.8 38.6

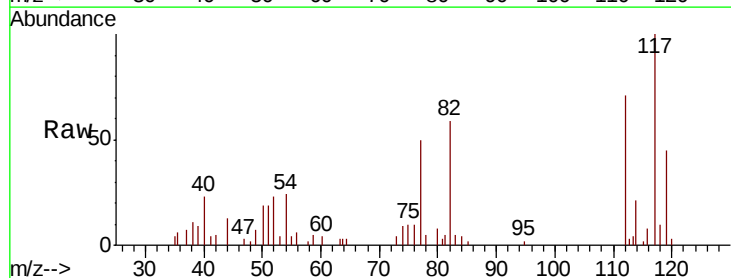


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

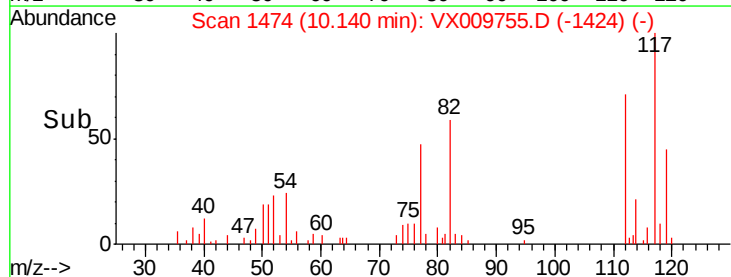
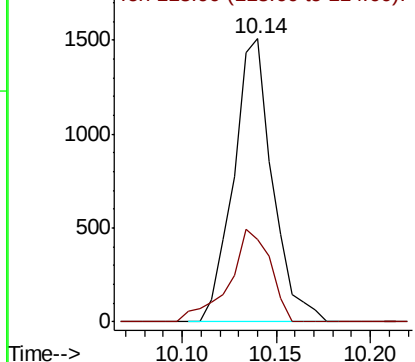


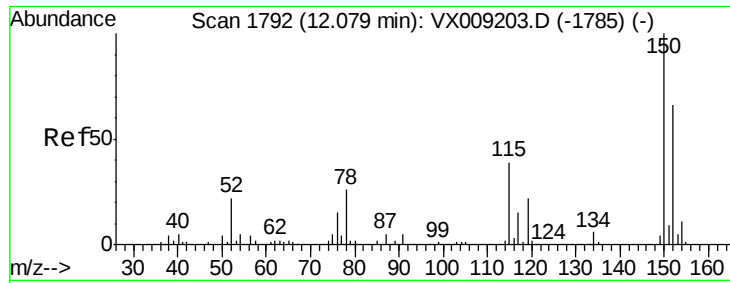
#65
Chlorobenzene
Concen: 0.444 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX009755.D
Acq: 21 May 2019 18:07

Tgt Ion:112 Resp: 2161
Ion Ratio Lower Upper
112 100
114 29.2 25.5 38.3



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009755.D

Acq: 21 May 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

FB-20190520

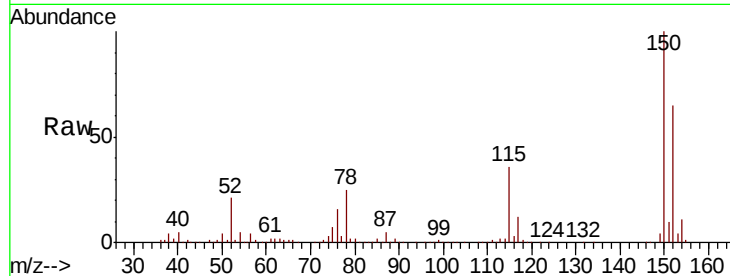
Tot Ion:152 Resp: 103400

Ion Ratio Lower Upper

152 100

115 58.0 41.2 123.6

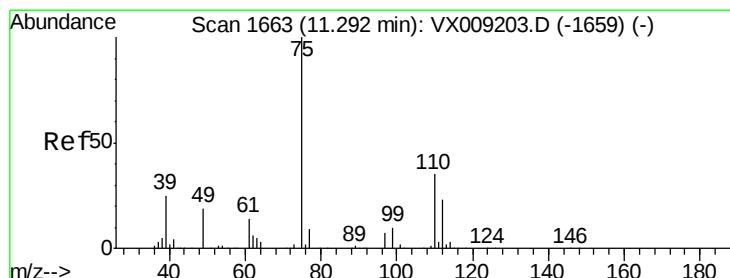
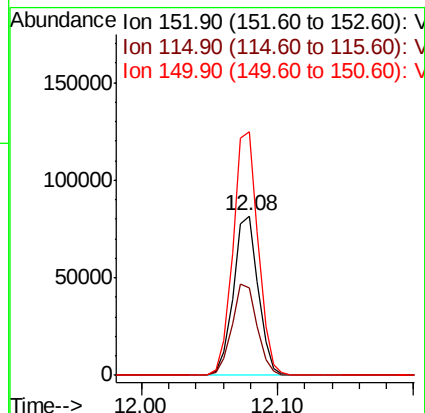
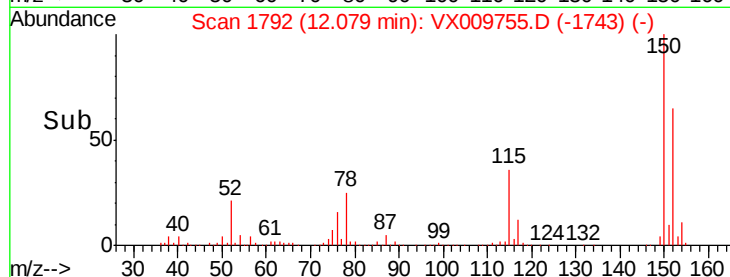
150 154.9 0.0 346.4



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: 24.727 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009755.D

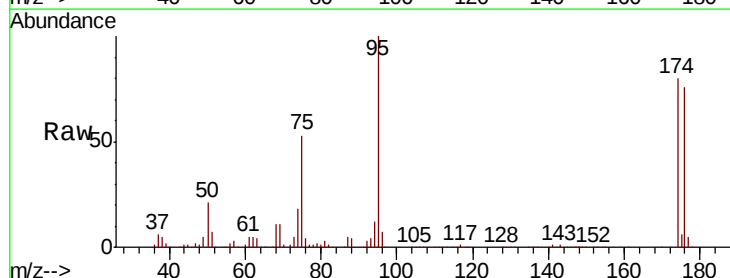
Acq: 21 May 2019 18:07

Tgt Ion: 75 Resp: 59309

Ion Ratio Lower Upper

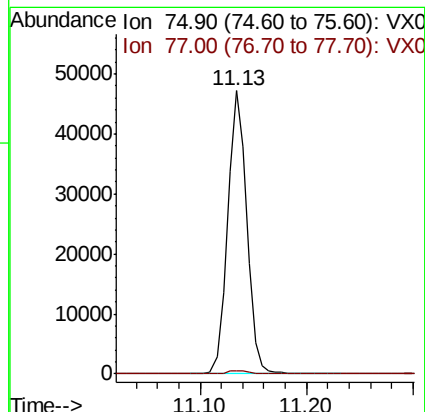
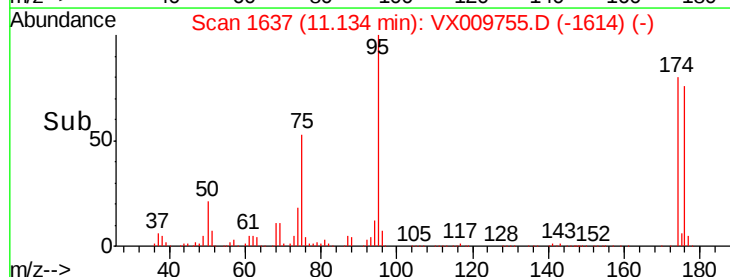
75 100

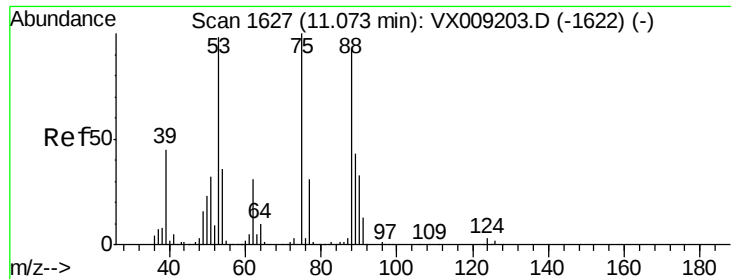
77 1.4 22.1 66.1#



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: 63.269 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009755.D

Acq: 21 May 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

FB-20190520

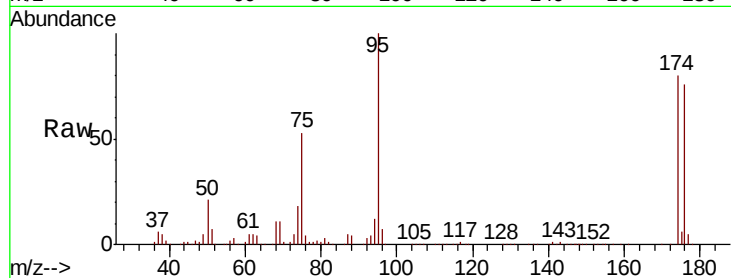
Tot Ion: 75 Resp: 59309

Ion Ratio Lower Upper

75 100

53 0.0 79.0 118.6#

89 0.0 34.7 52.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

