

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061219\
 Data File : VX010242.D
 Acq On : 12 Jun 2019 11:54
 Operator : JC/SP
 Sample : K3309-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z1-TB13-190610

Quant Time: Jun 13 01:25:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	328038	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	494324	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	432272	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	197953	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	147150	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	
35) Dibromofluoromethane	5.49	113	152003	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
50) Toluene-d8	8.71	98	574100	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
62) 4-Bromofluorobenzene	11.13	95	189647	44.44	ug/l	0.00
Spiked Amount			Recovery	=	88.88%	

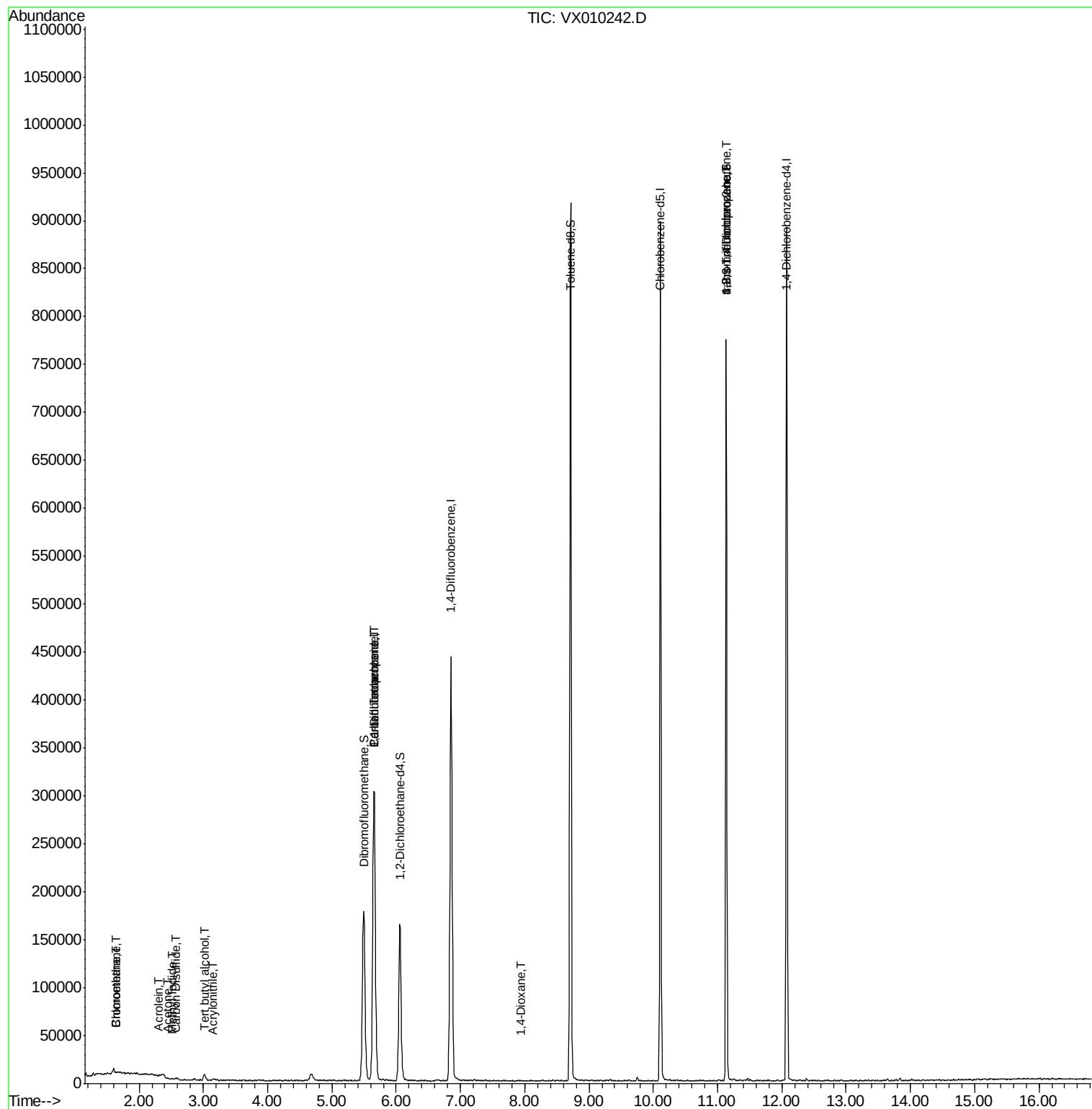
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	728	0.685	ug/l #	41
6) Chloroethane	1.64	64	1739	1.224	ug/l #	59
10) Methyl Iodide	2.52	142	921	0.206	ug/l	94
11) Tert butyl alcohol	3.02	59	3341	4.259	ug/l #	85
13) Acrolein	2.30	56	152	1.063	ug/l #	18
15) Acrylonitrile	3.15	53	388	0.242	ug/l #	82
16) Acetone	2.45	43	510	0.339	ug/l #	25
17) Carbon Disulfide	2.57	76	1861	0.219	ug/l	96
36) 1,1-Dichloropropene	5.66	75	19578	4.855	ug/l #	52
38) Carbon Tetrachloride	5.66	117	27312	5.983	ug/l #	14
49) 1,4-Dioxane	7.94	88	41	0.438	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	87516	22.103	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	87516	48.835	ug/l #	10

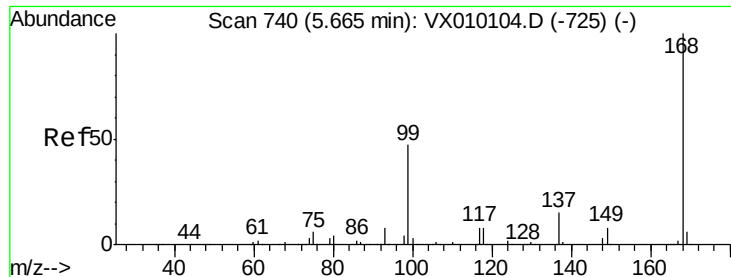
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

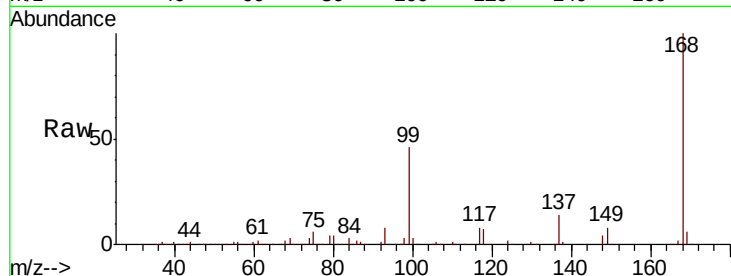
Z1-TB13-190610

Tot Ion:168 Resp: 328038

Ion Ratio Lower Upper

168 100

99 45.5 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

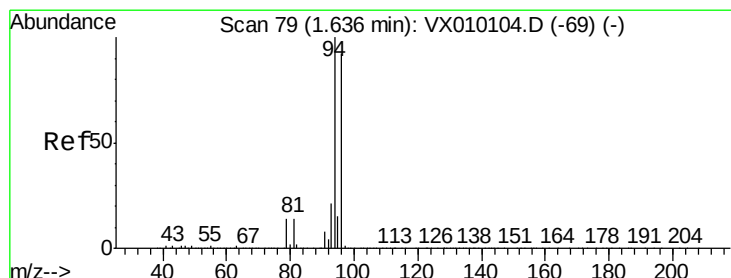
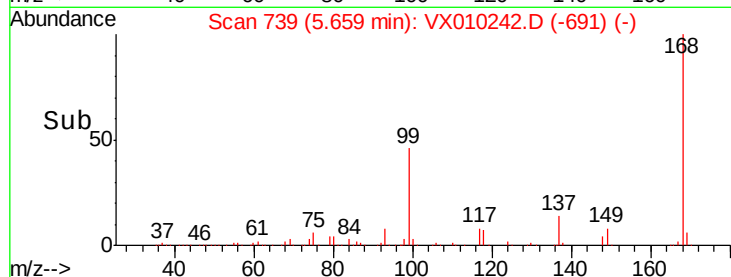
5.66

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.685 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010242.D

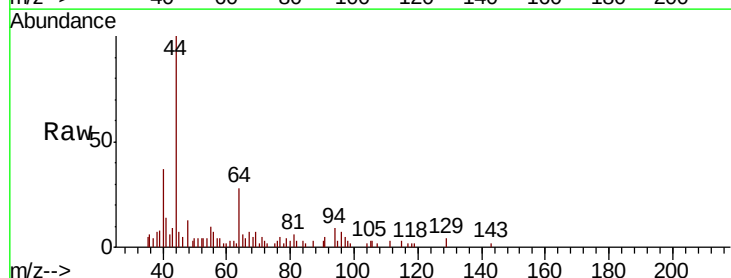
Acq: 12 Jun 2019 11:54

Tgt Ion: 94 Resp: 728

Ion Ratio Lower Upper

94 100

96 38.3 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

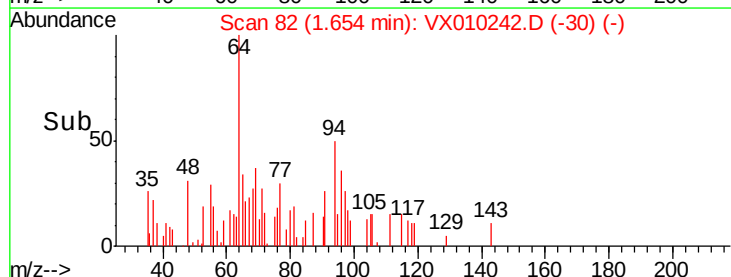
150

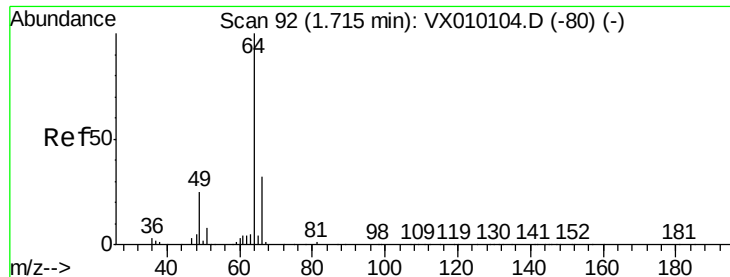
100

50

0

Time-->





#6

Chloroethane

Concen: 1.224 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.08 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

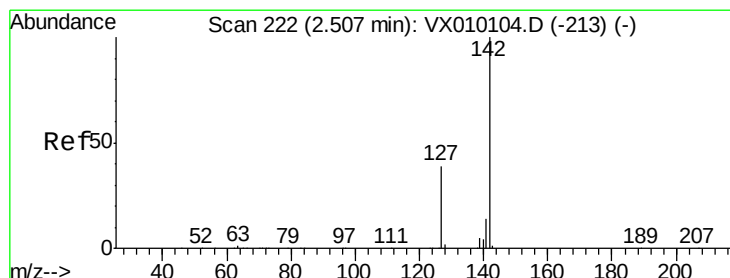
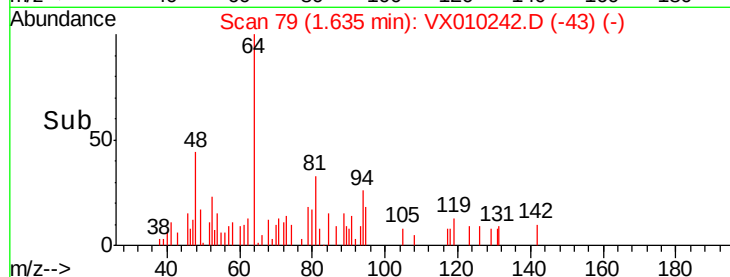
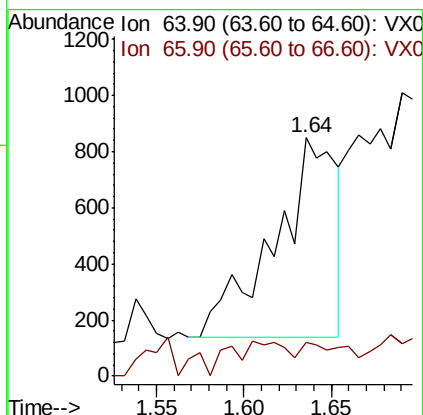
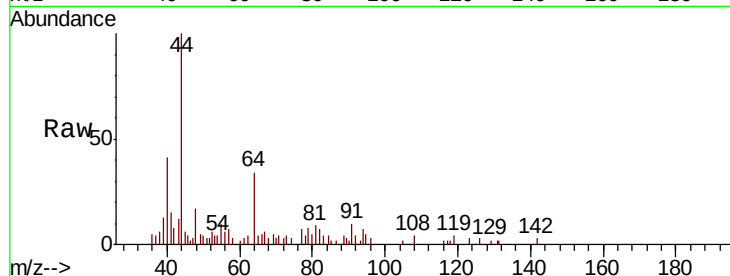
Z1-TB13-190610

Tot Ion: 64 Resp: 1739

Ion Ratio Lower Upper

64 100

66 8.6 25.1 37.7#



#10

Methyl Iodide

Concen: 0.206 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

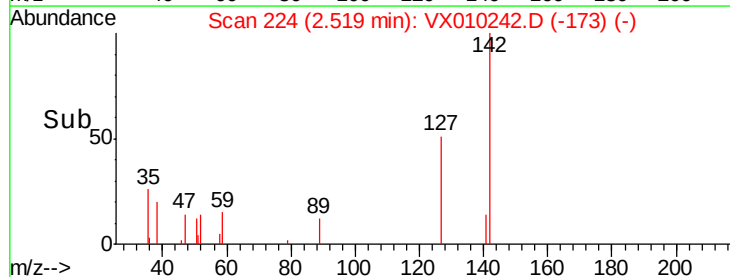
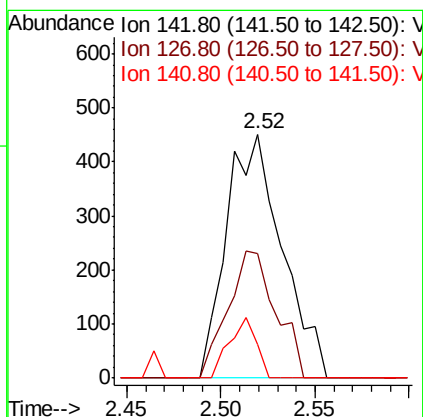
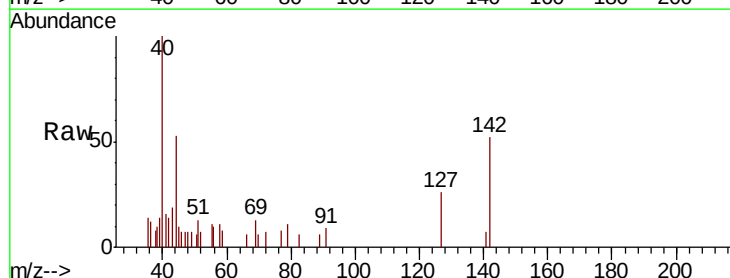
Tgt Ion: 142 Resp: 921

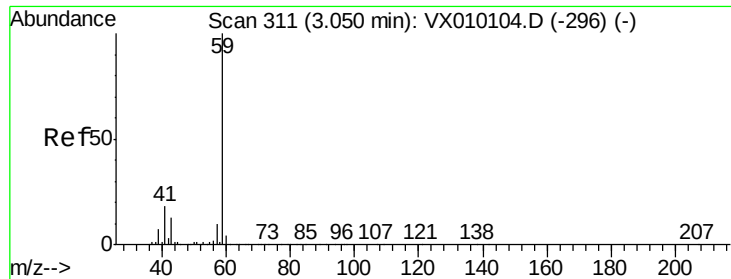
Ion Ratio Lower Upper

142 100

127 45.1 33.0 49.4

141 12.1 11.4 17.0



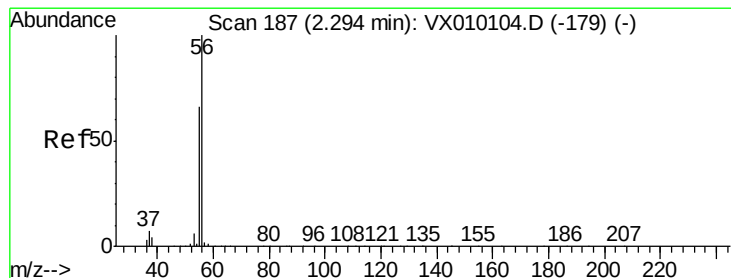
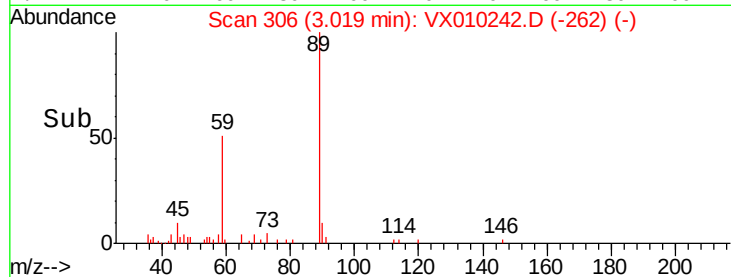
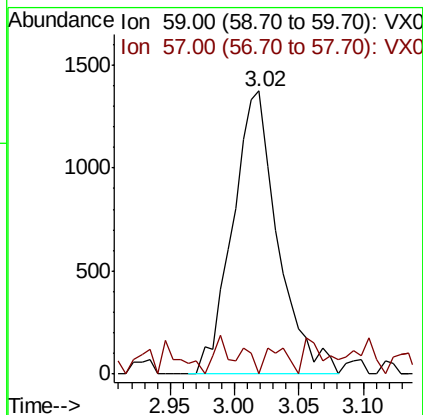
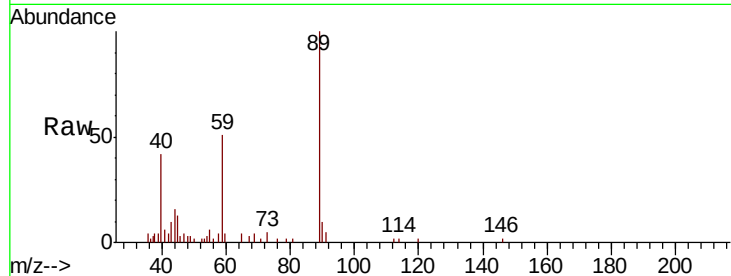


#11

Tert butyl alcohol
Concen: 4.259 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010242.D
Acq: 12 Jun 2019 11:54

Instrument :
MSVOA_X
ClientSampleId :
Z1-TB13-190610

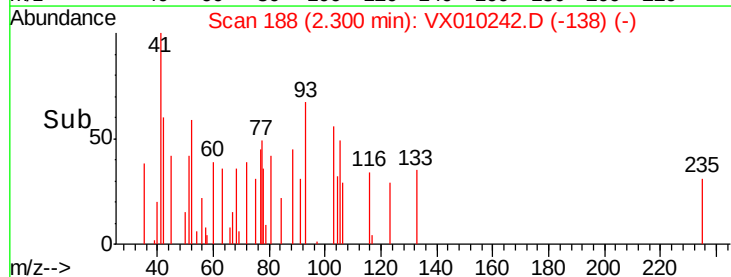
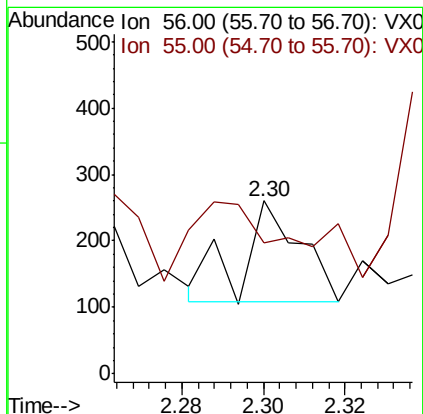
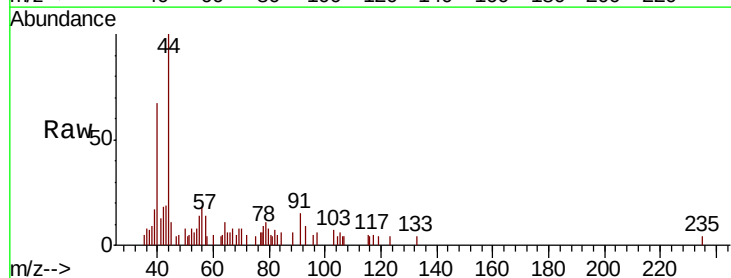
Tot Ion: 59 Resp: 3341
Ion Ratio Lower Upper
59 100
57 4.6 8.2 12.2#

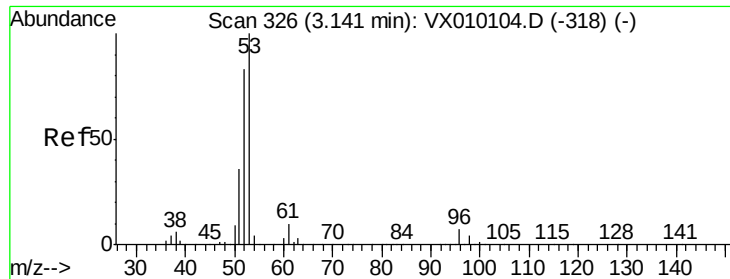


#13

Acrolein
Concen: 1.063 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX010242.D
Acq: 12 Jun 2019 11:54

Tgt Ion: 56 Resp: 152
Ion Ratio Lower Upper
56 100
55 138.8 57.0 85.4#





#15

Acrylonitrile

Concen: 0.242 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampled :

Z1-TB13-190610

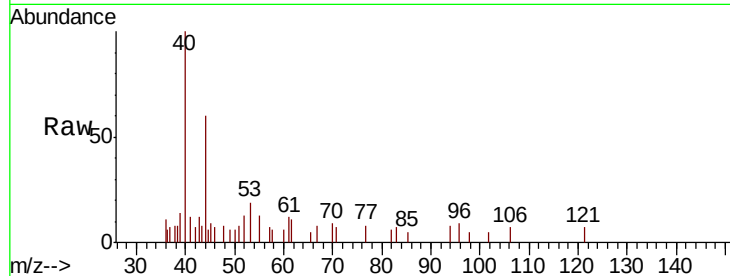
Tot Ion: 53 Resp: 388

Ion Ratio Lower Upper

53 100

52 77.3 66.7 100.1

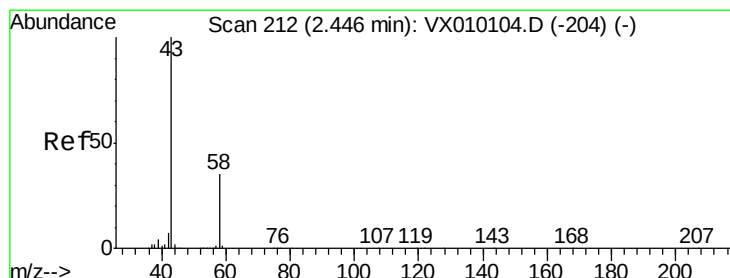
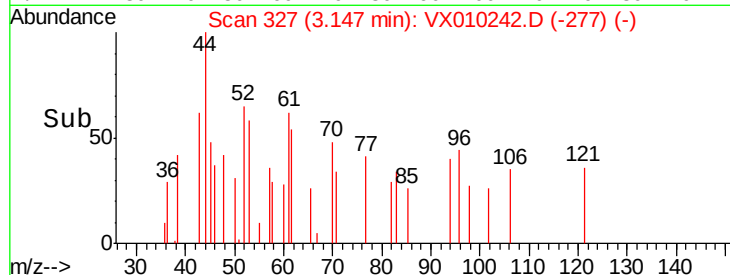
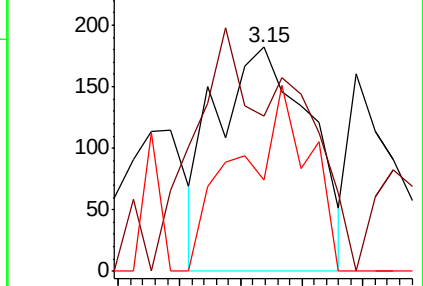
51 62.6 28.8 43.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.339 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010242.D

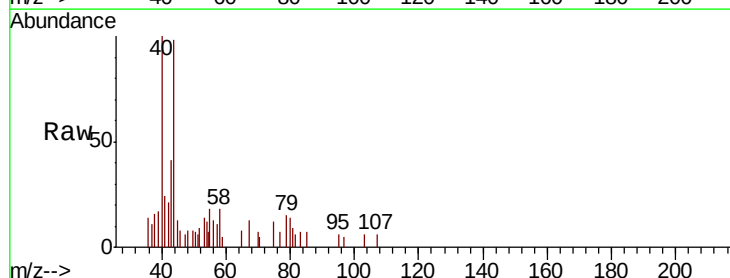
Acq: 12 Jun 2019 11:54

Tgt Ion: 43 Resp: 510

Ion Ratio Lower Upper

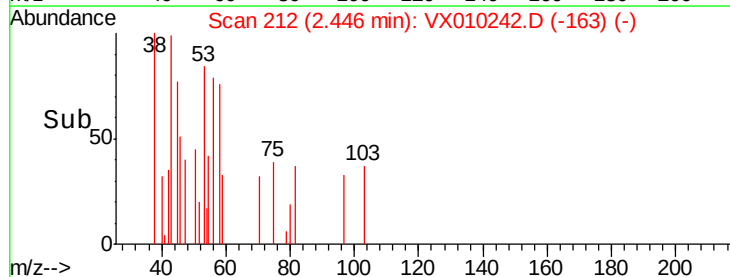
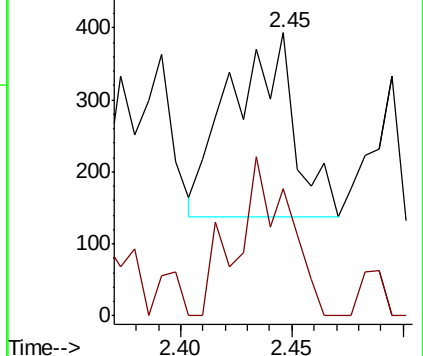
43 100

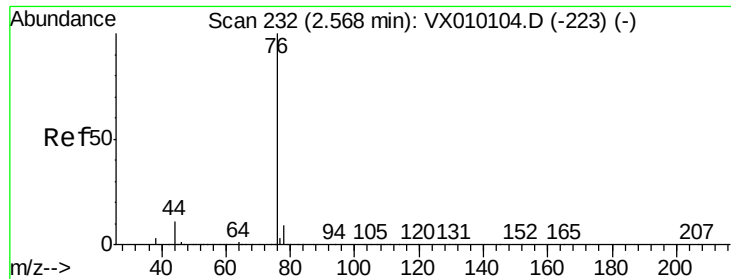
58 69.1 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.219 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

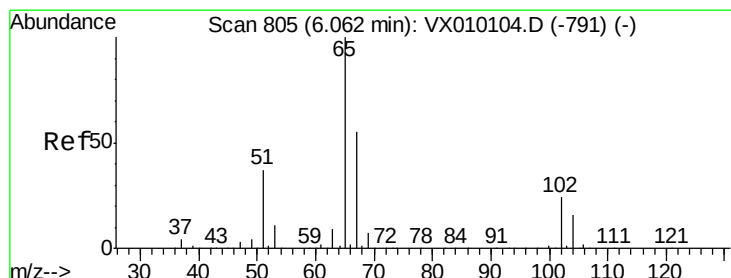
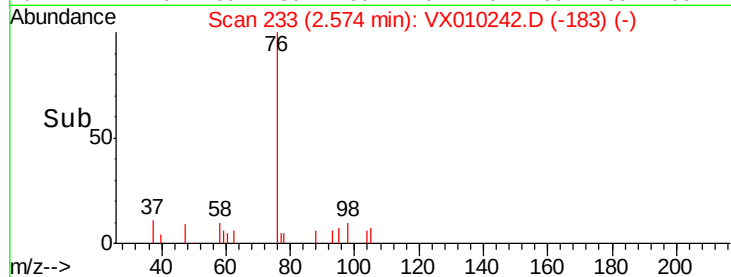
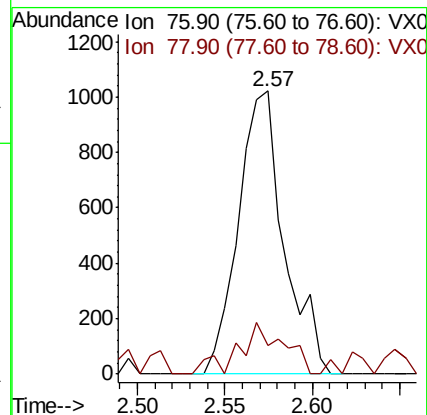
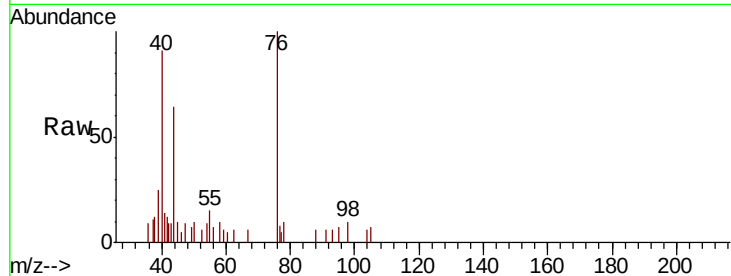
Z1-TB13-190610

Tot Ion: 76 Resp: 1861

Ion Ratio Lower Upper

76 100

78 10.3 7.0 10.6



#33

1,2-Dichloroethane-d4

Concen: 45.955 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX010242.D

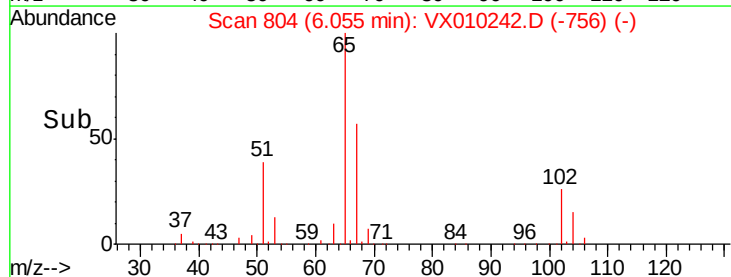
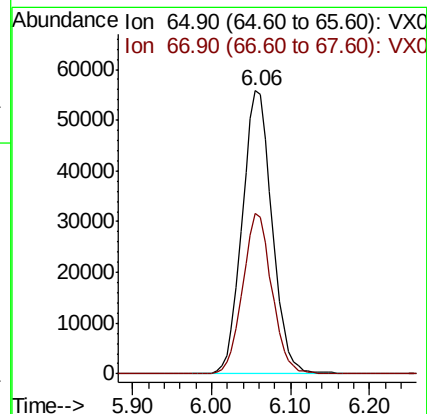
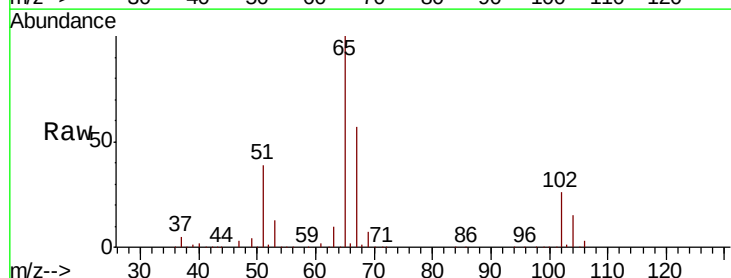
Acq: 12 Jun 2019 11:54

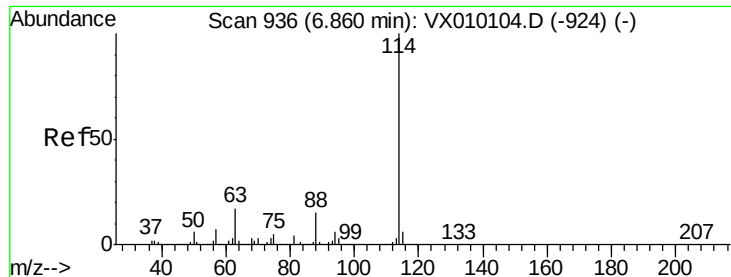
Tgt Ion: 65 Resp: 147150

Ion Ratio Lower Upper

65 100

67 55.2 0.0 108.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

Z1-TB13-190610

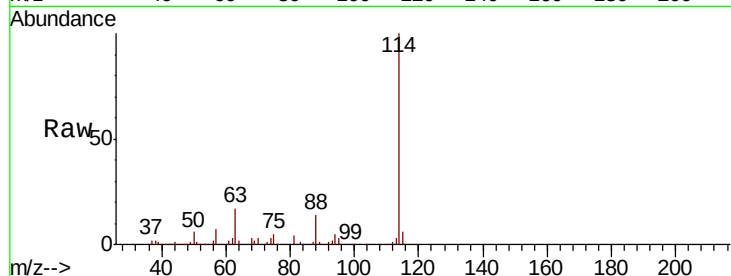
Tot Ion:114 Resp: 494324

Ion Ratio Lower Upper

114 100

63 17.0 0.0 47.4

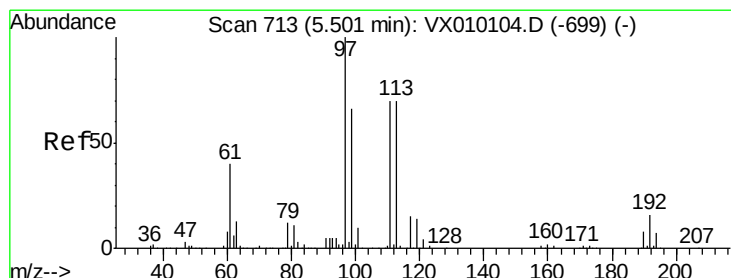
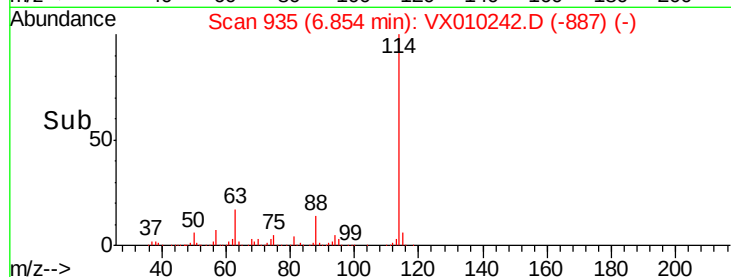
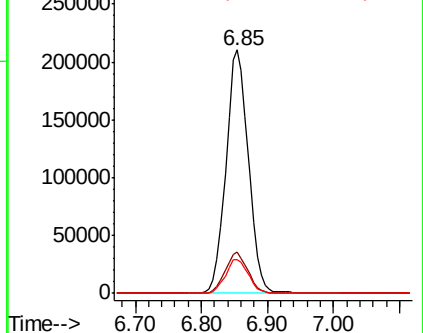
88 13.8 0.0 33.0



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: 49.852 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

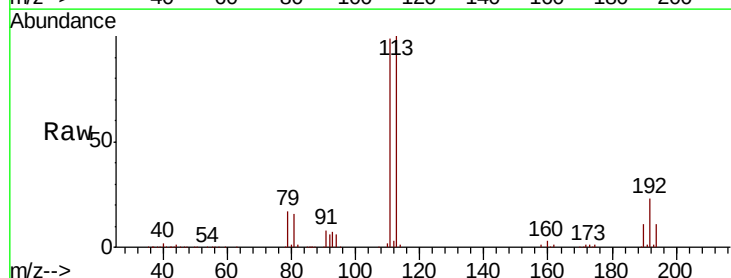
Tgt Ion:113 Resp: 152003

Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.2

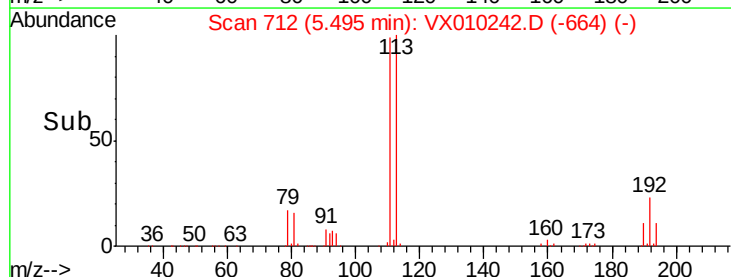
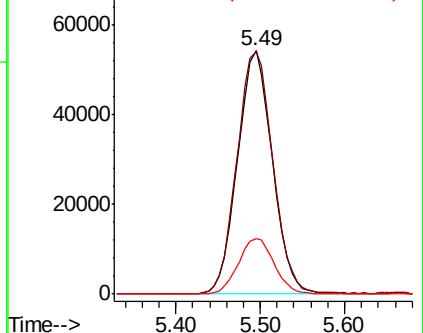
192 23.5 17.1 25.7

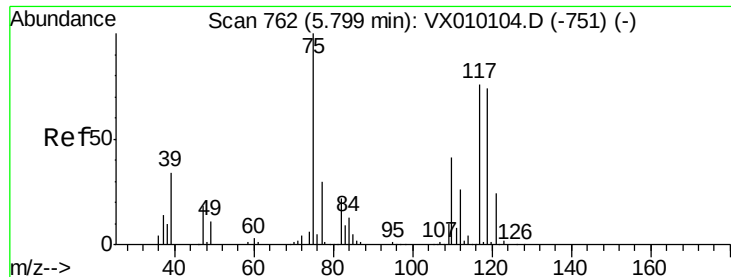


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.855 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

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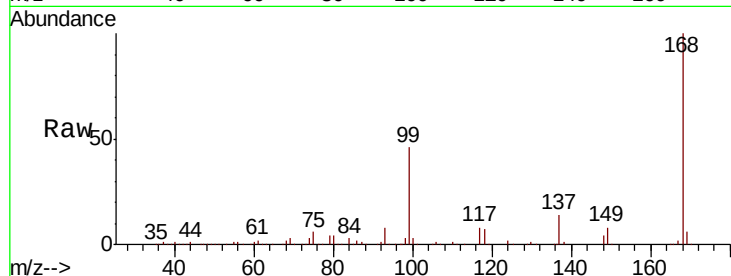
Tot Ion: 75 Resp: 19578

Ion Ratio Lower Upper

75 100

110 11.1 16.7 50.1#

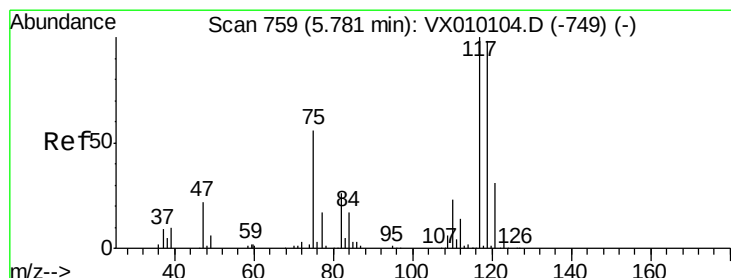
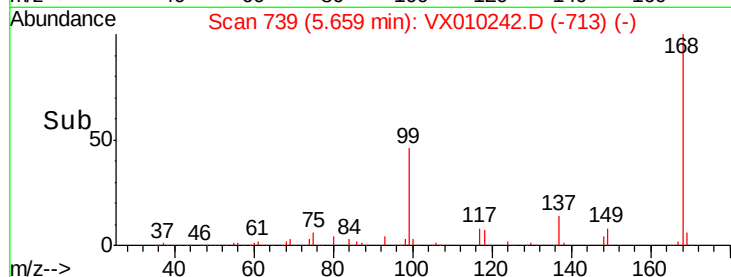
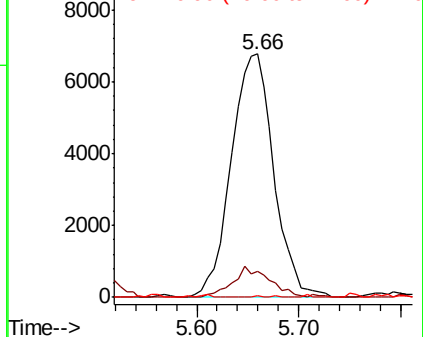
77 0.1 25.0 37.4#



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: 5.983 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

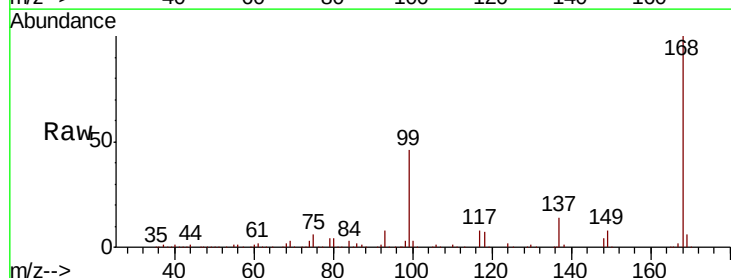
Tgt Ion: 117 Resp: 27312

Ion Ratio Lower Upper

117 100

119 3.4 77.3 115.9#

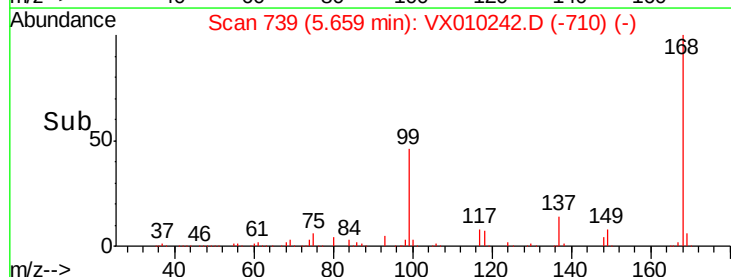
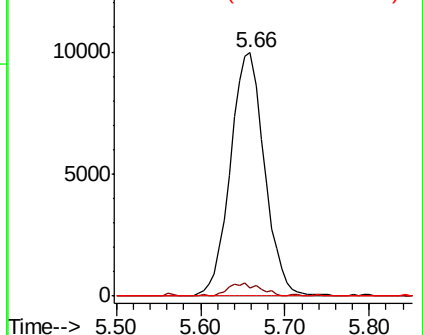
121 0.0 25.4 38.0#

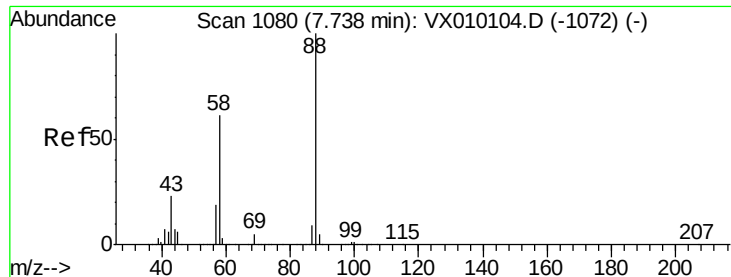


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.438 ug/l

RT: 7.94 min Scan# 1113

Delta R.T. 0.20 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

Z1-TB13-190610

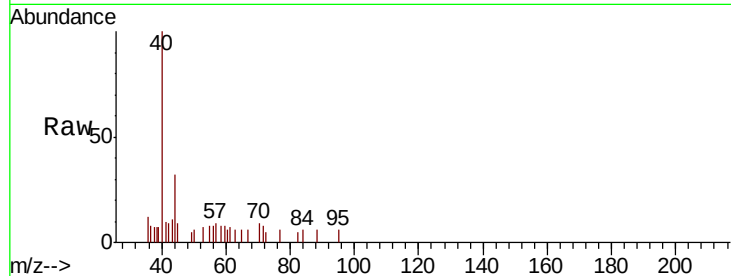
Tot Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

43 361.0 30.2 45.4#

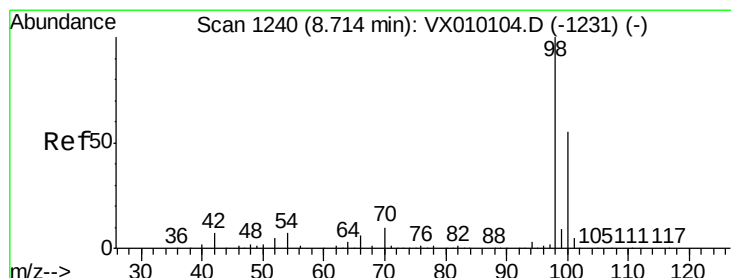
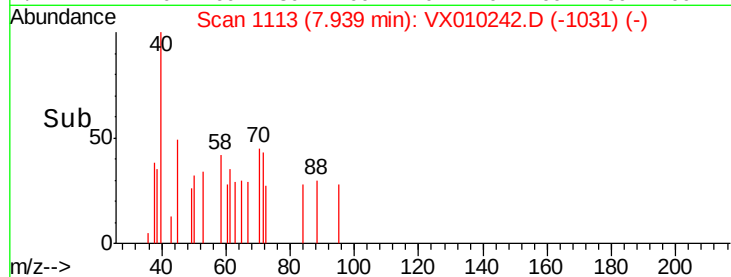
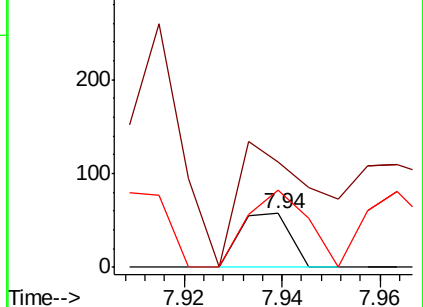
58 170.7 64.0 96.0#



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: 50.238 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010242.D

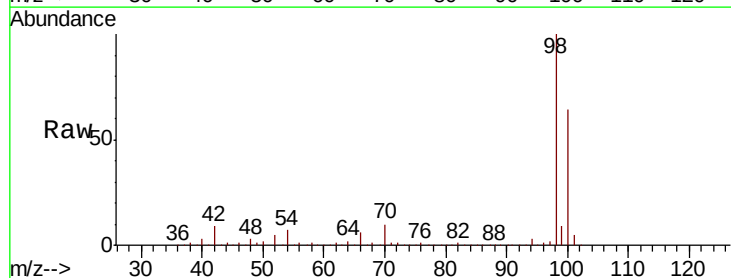
Acq: 12 Jun 2019 11:54

Tgt Ion: 98 Resp: 574100

Ion Ratio Lower Upper

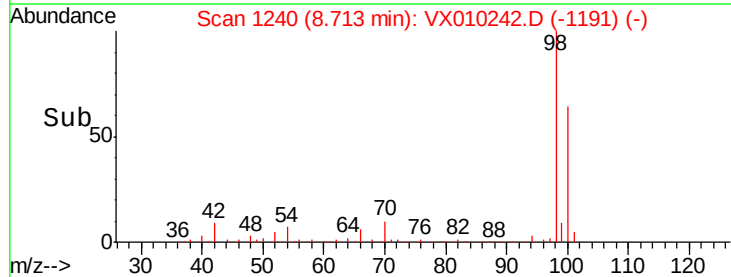
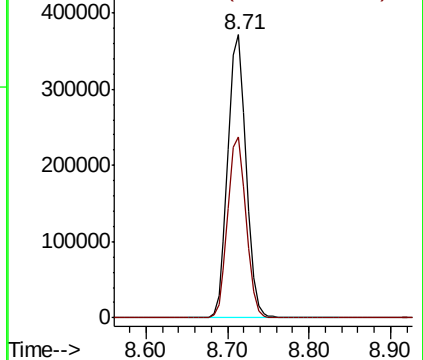
98 100

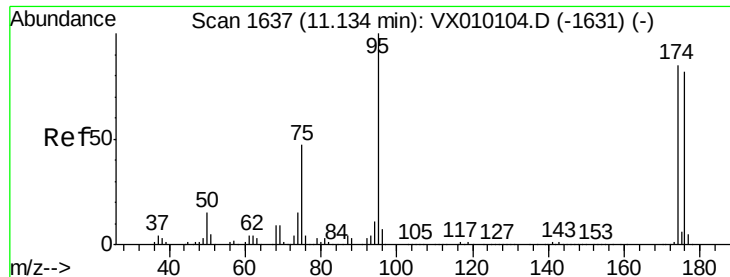
100 64.1 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.437 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

Z1-TB13-190610

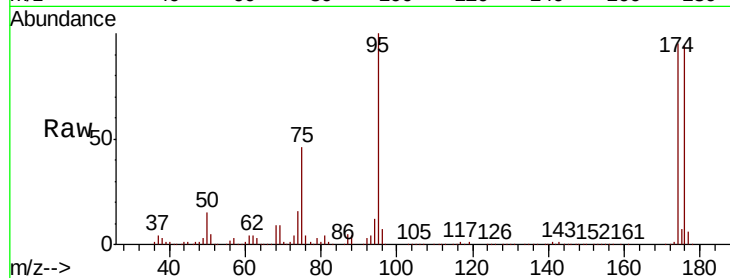
Tot Ion: 95 Resp: 189647

Ion Ratio Lower Upper

95 100

174 95.0 0.0 160.4

176 92.8 0.0 154.6

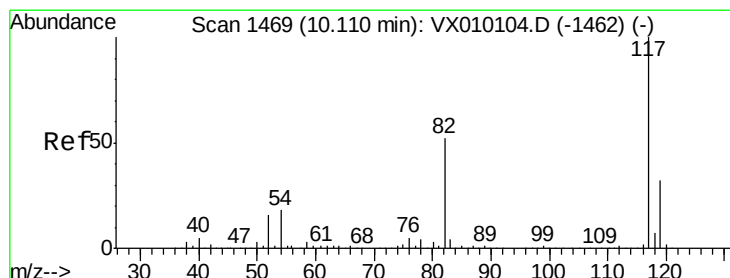
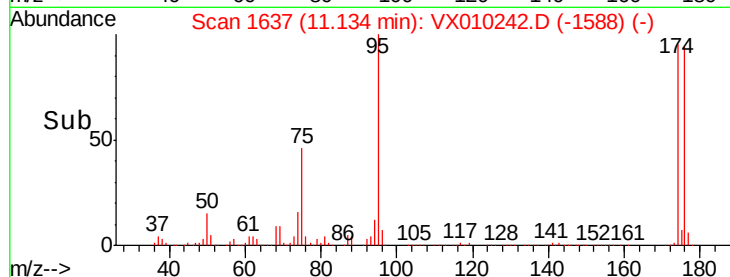
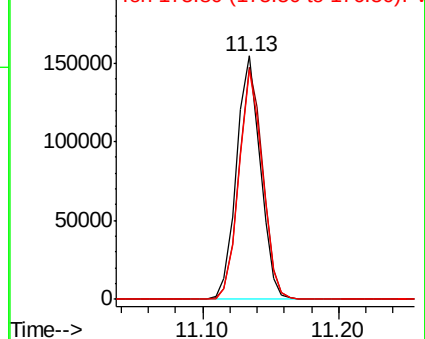


Abundance

Ion 94.90 (94.60 to 95.60): VX010104.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX010104.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX010104.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

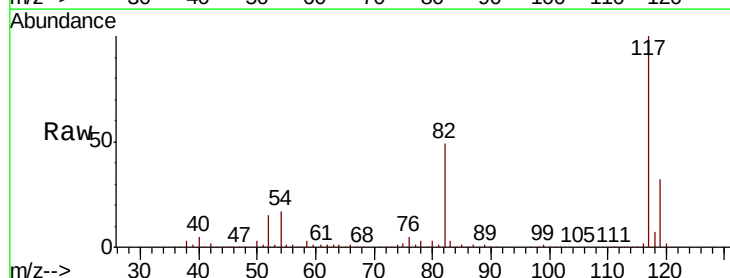
Tgt Ion: 117 Resp: 432272

Ion Ratio Lower Upper

117 100

82 49.4 49.2 73.8

119 32.4 25.2 37.8

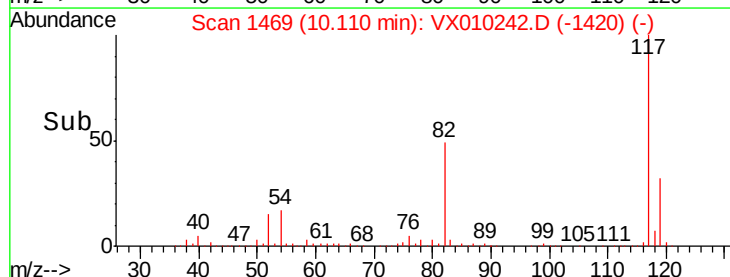
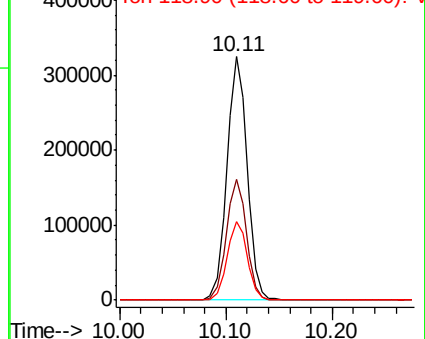


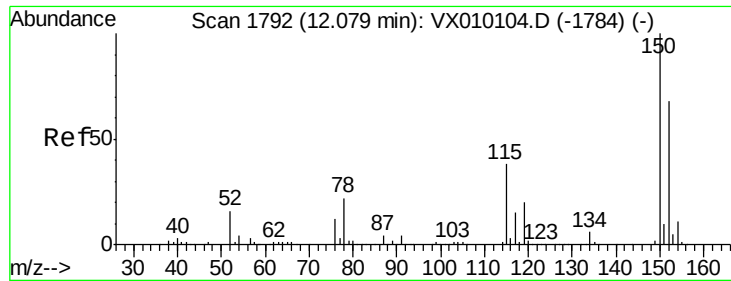
Abundance

Ion 116.90 (116.60 to 117.60): VX010104.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010104.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010104.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

Z1-TB13-190610

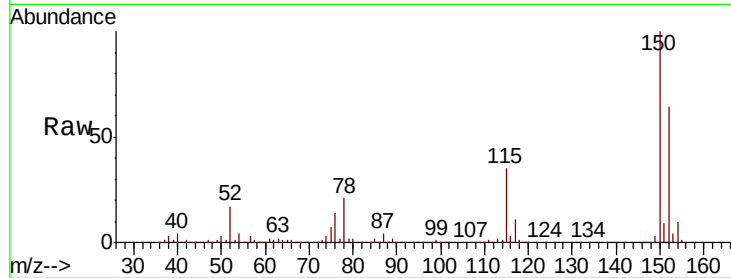
Tot Ion:152 Resp: 197953

Ion Ratio Lower Upper

152 100

115 54.4 41.4 124.2

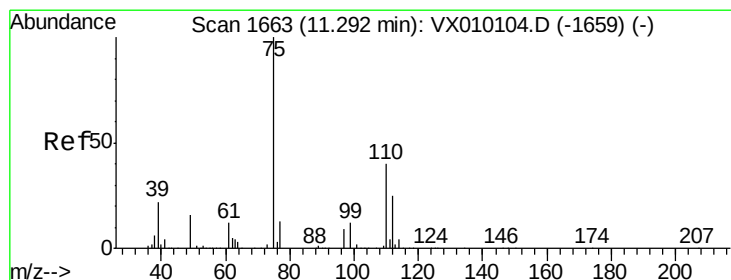
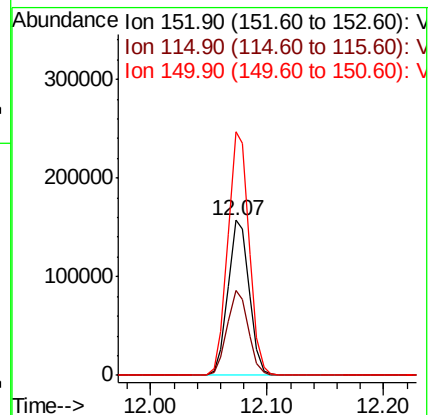
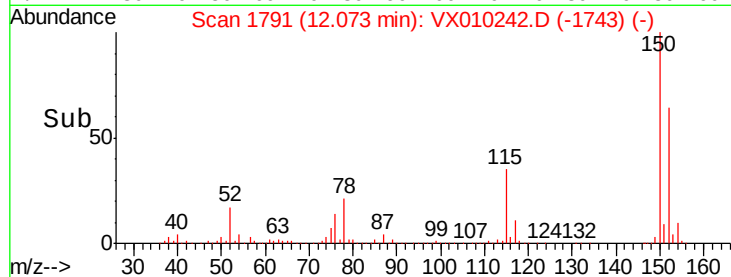
150 157.2 0.0 345.2



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: 22.103 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010242.D

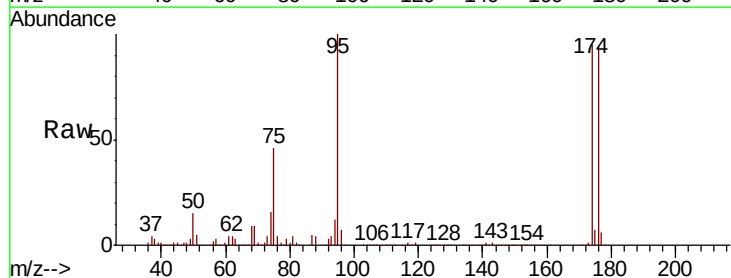
Acq: 12 Jun 2019 11:54

Tgt Ion: 75 Resp: 87516

Ion Ratio Lower Upper

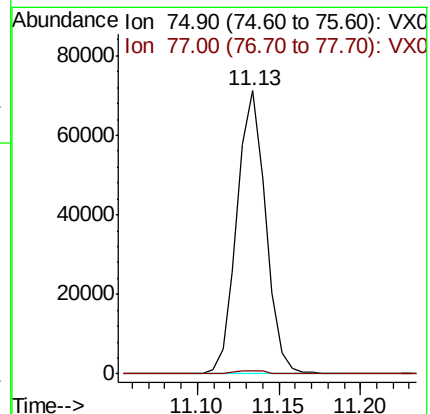
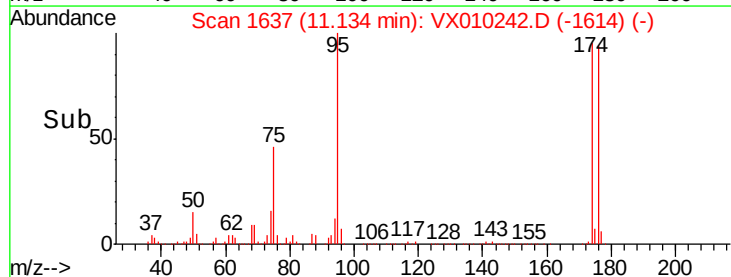
75 100

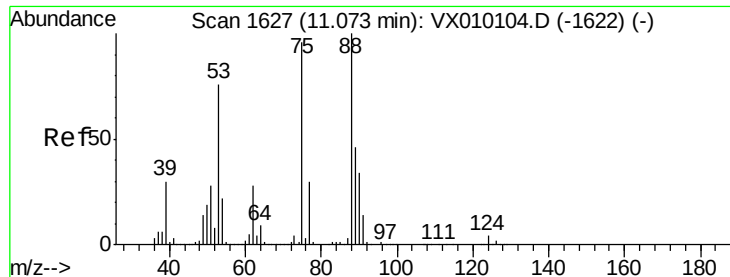
77 1.4 22.1 66.1#



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: 48.835 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010242.D

Acq: 12 Jun 2019 11:54

Instrument :

MSVOA_X

ClientSampleId :

Z1-TB13-190610

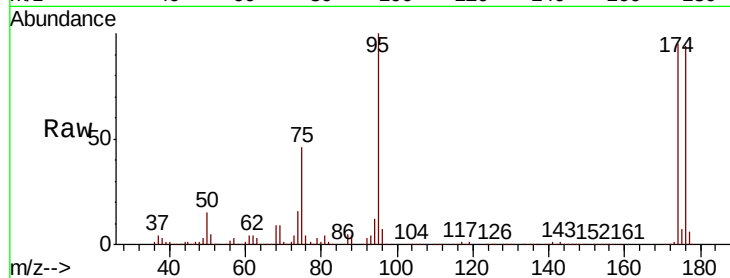
Tot Ion: 75 Resp: 87516

Ion Ratio Lower Upper

75 100

53 0.2 79.8 119.6#

89 0.0 34.2 51.4#



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

