

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040919\
 Data File : VX008780.D
 Acq On : 09 Apr 2019 18:55
 Operator : JC/SP
 Sample : K2311-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 10 06:39:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	207625	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	343430	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	296307	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	125574	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	142800	47.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.30%	
35) Dibromofluoromethane	5.50	113	103565	47.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.34%	
50) Toluene-d8	8.71	98	428844	49.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.10%	
62) 4-Bromofluorobenzene	11.13	95	141696	45.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.40%	

Target Compounds

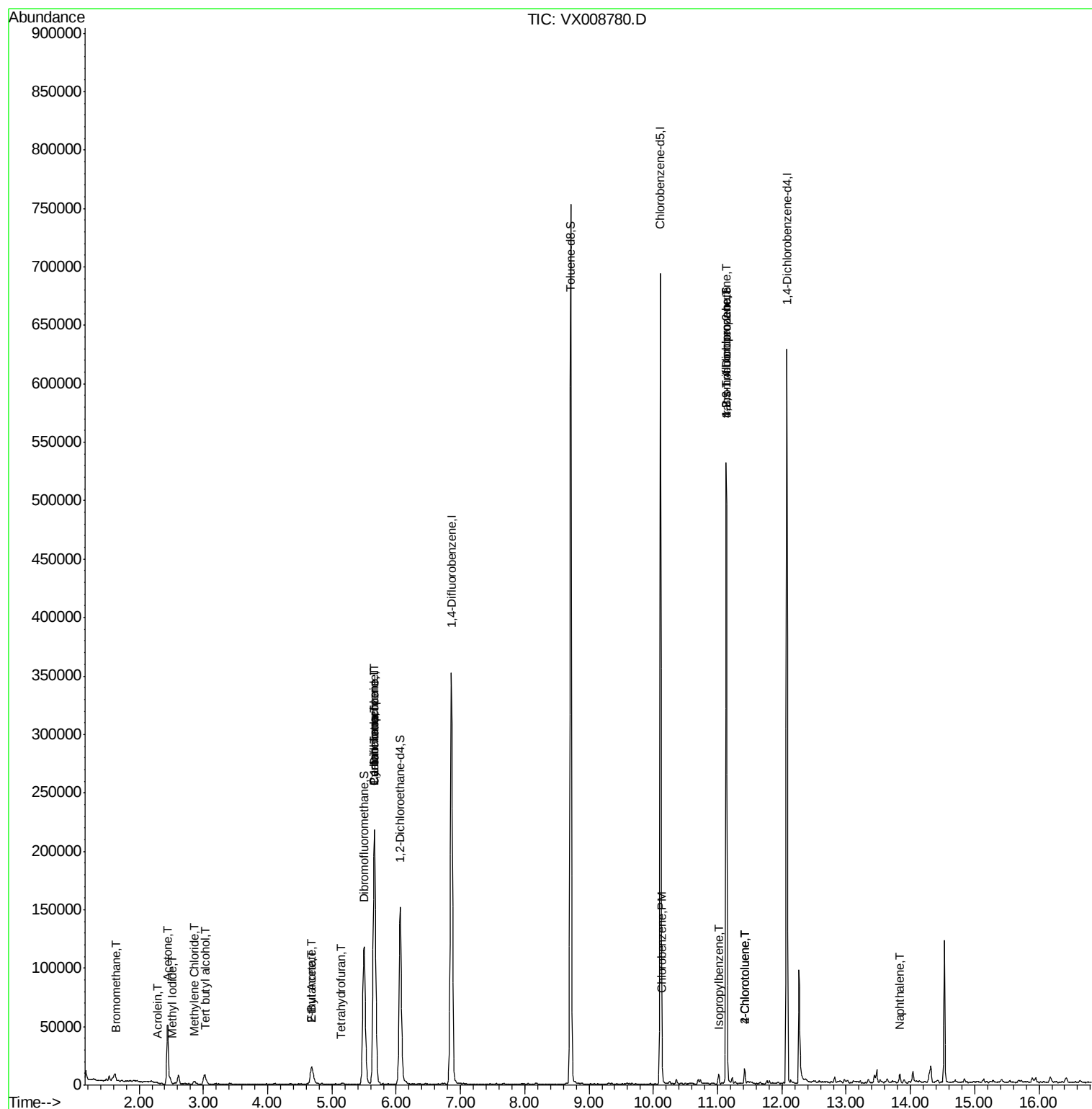
					Qvalue
3) Chloromethane	1.32	50	394	Below Cal	# 69
5) Bromomethane	1.64	94	392	2.122 ug/l	# 78
6) Chloroethane	1.72	64	190	Below Cal	# 43
10) Methyl Iodide	2.52	142	23	4.013 ug/l	# 42
11) Tert butyl alcohol	3.03	59	7078	9.983 ug/l	# 72
13) Acrolein	2.29	56	176	0.501 ug/l	# 79
16) Acetone	2.44	43	55998	32.105 ug/l	96
17) Carbon Disulfide	2.57	76	1254	Below Cal	# 90
20) Methylene Chloride	2.86	84	1051	0.360 ug/l	# 91
25) 2-Butanone	4.68	43	17966	6.517 ug/l	97
28) Bromochloromethane	5.02	49	18	Below Cal	# 22
29) Tetrahydrofuran	5.15	42	422	0.231 ug/l	# 66
31) Cyclohexane	5.66	56	4748	0.907 ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	17151	4.569 ug/l	# 51
37) Ethyl Acetate	4.68	43	17966	3.585 ug/l	# 75
38) Carbon Tetrachloride	5.67	117	19742	6.354 ug/l	# 17
65) Chlorobenzene	10.14	112	1911	0.291 ug/l	92
73) Isopropylbenzene	11.02	105	4032	0.387 ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	72317	20.964 ug/l	# 34
79) 2-Chlorotoluene	11.42	91	5269	0.719 ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	72317	57.787 ug/l	# 9
82) 4-Chlorotoluene	11.42	91	5269	0.621 ug/l	95
95) Naphthalene	13.83	128	4399	0.426 ug/l	# 95

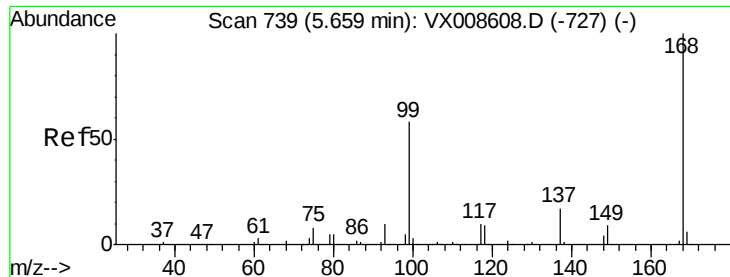
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008780.D

Acq: 09 Apr 2019 18:55

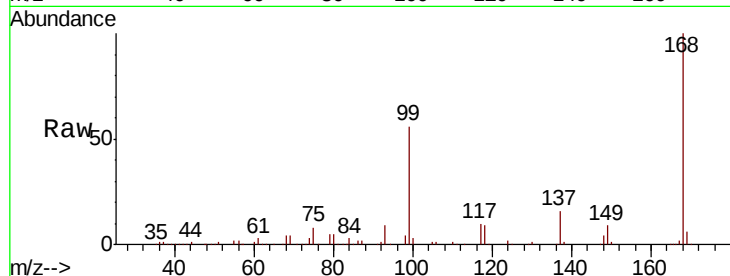
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 207625

Ion Ratio Lower Upper

168 100

99 55.7 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

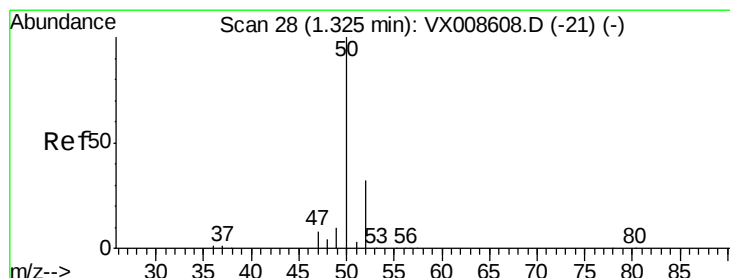
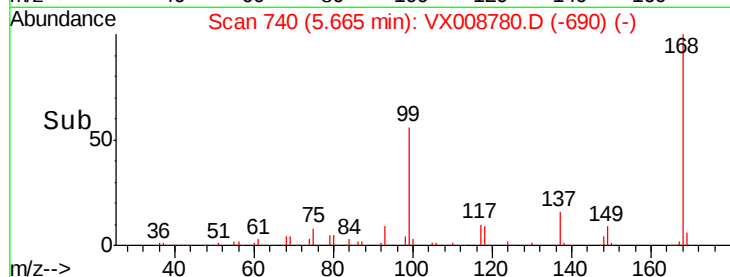
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008780.D

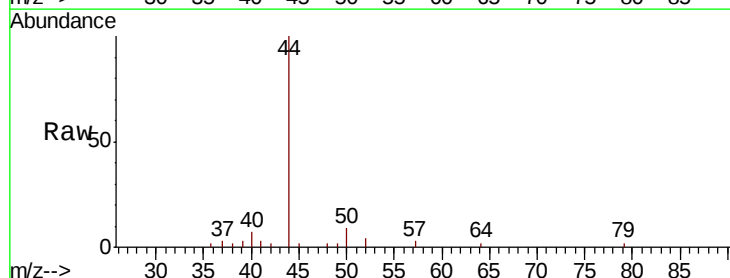
Acq: 09 Apr 2019 18:55

Tgt Ion: 50 Resp: 394

Ion Ratio Lower Upper

50 100

52 49.6 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

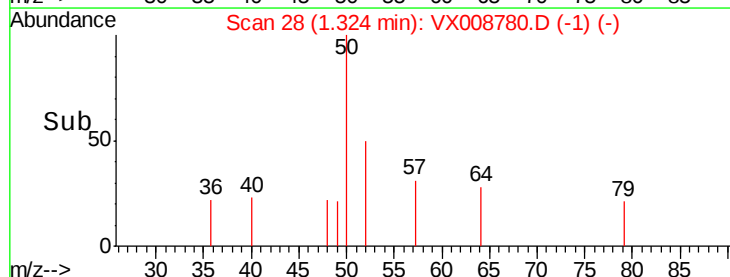
150

100

50

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 2.122 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008780.D

Acq: 09 Apr 2019 18:55

Instrument :

MSVOA_X

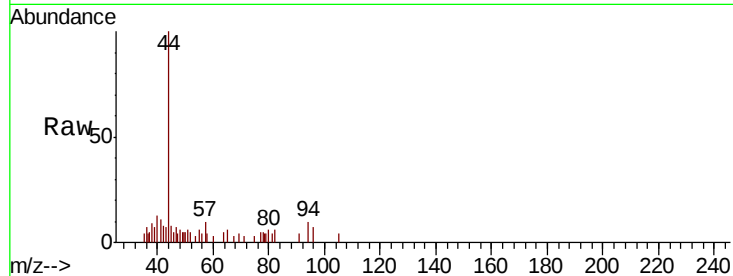
ClientSampled :

Tot Ion: 94 Resp: 392

Ion Ratio Lower Upper

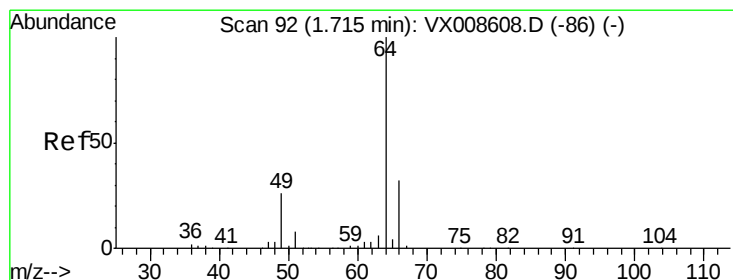
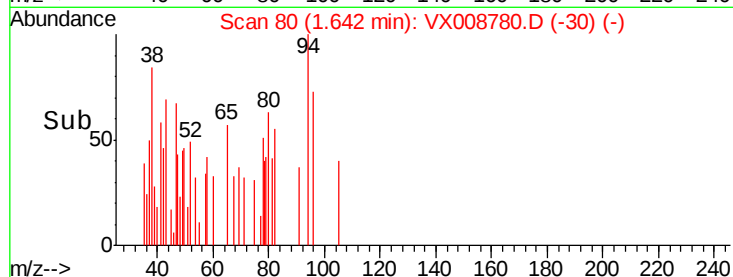
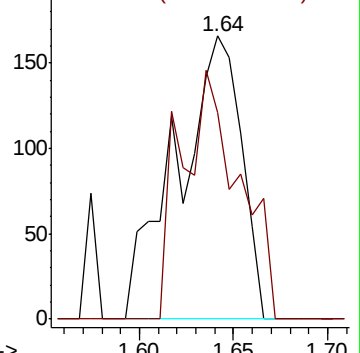
94 100

96 72.9 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX008780.D

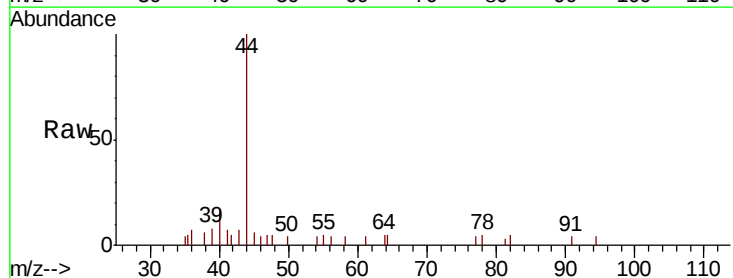
Acq: 09 Apr 2019 18:55

Tgt Ion: 64 Resp: 190

Ion Ratio Lower Upper

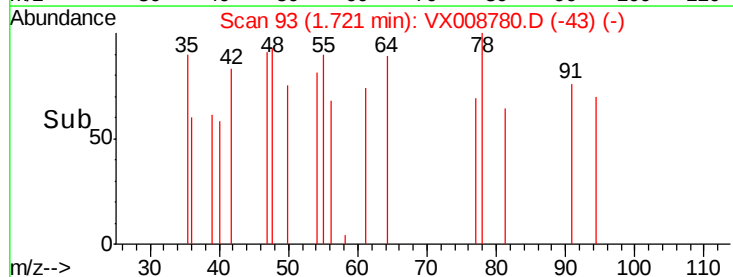
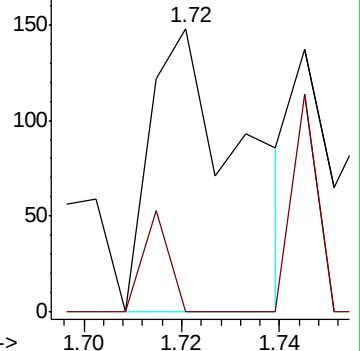
64 100

66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

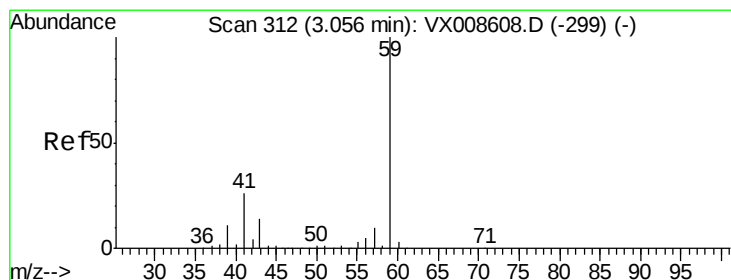
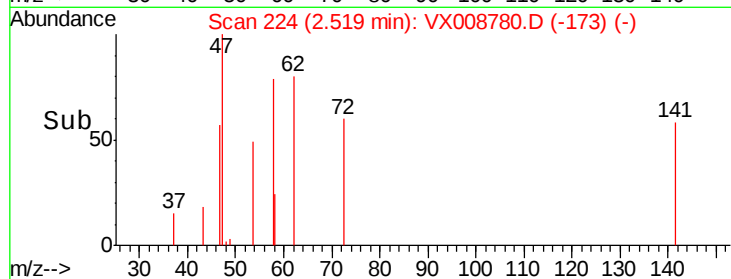
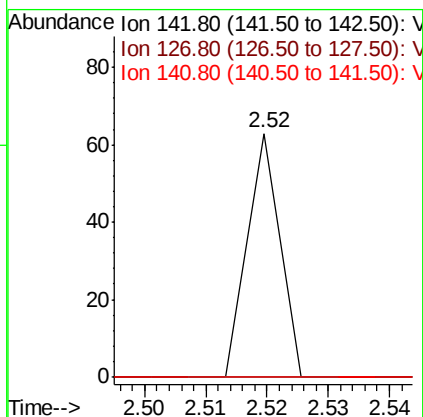
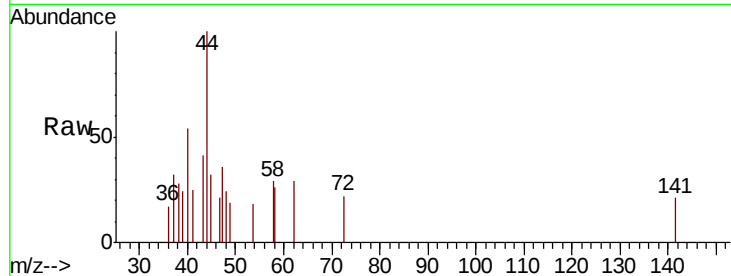




#10
Methvl Iodide
Concen: 4.013 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008780.D
Acq: 09 Apr 2019 18:55

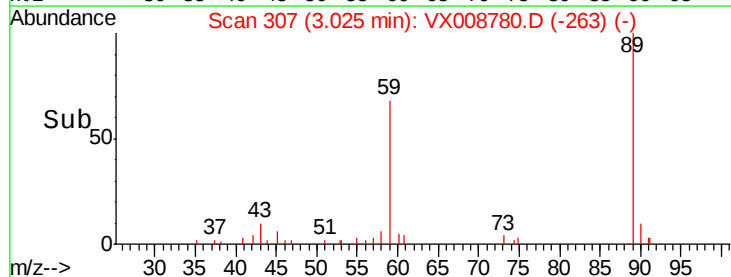
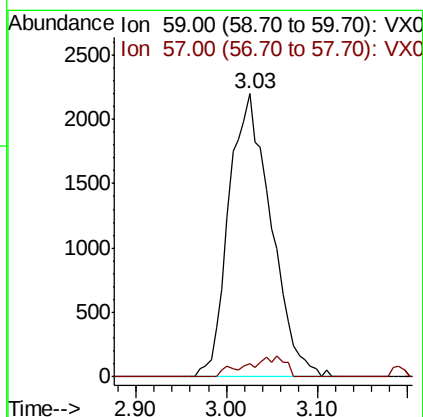
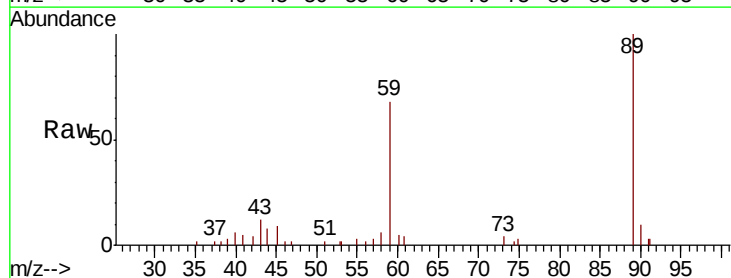
Instrument :
MSVOA_X
ClientSampled :

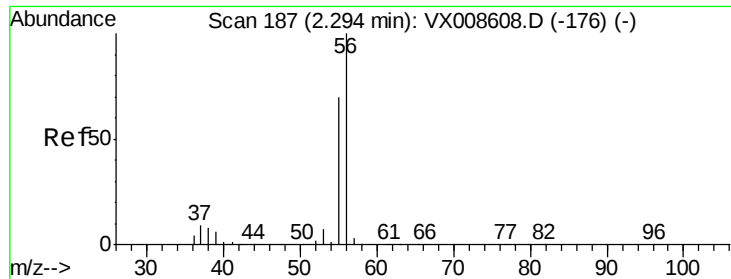
Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	33.0	49.6#
141	0.0	11.4	17.2#



#11
Tert butyl alcohol
Concen: 9.983 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.03 min
Lab File: VX008780.D
Acq: 09 Apr 2019 18:55

Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5#





#13

Acrolein

Concen: 0.501 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX008780.D

Acq: 09 Apr 2019 18:55

Instrument :

MSVOA_X

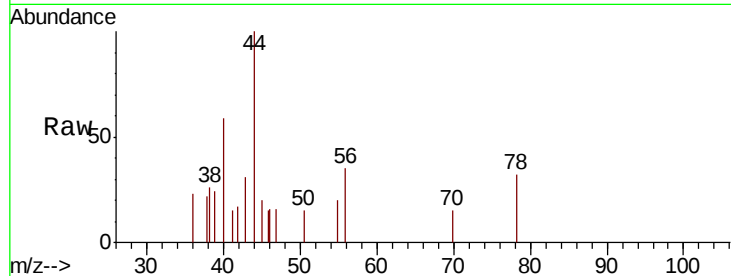
ClientSampleId :

Tot Ion: 56 Resp: 176

Ion Ratio Lower Upper

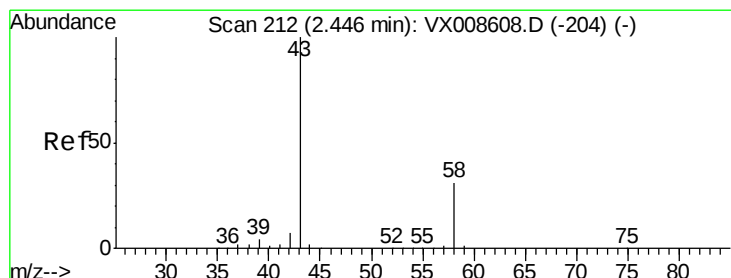
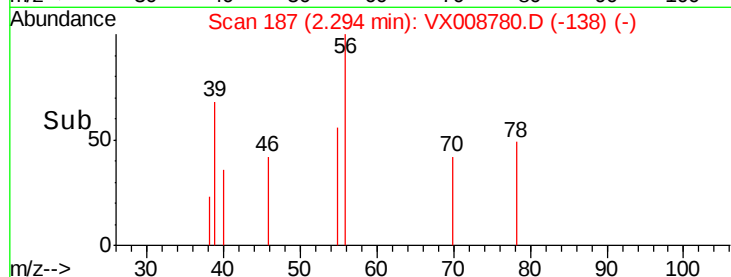
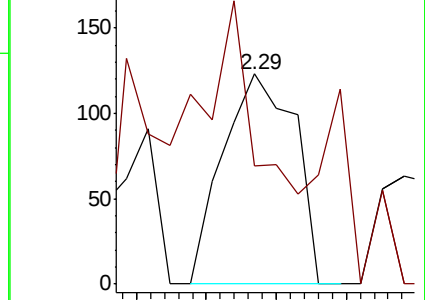
56 100

55 55.1 58.0 87.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 32.105 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008780.D

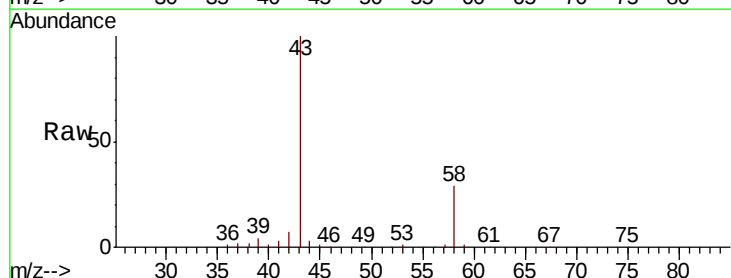
Acq: 09 Apr 2019 18:55

Tgt Ion: 43 Resp: 55998

Ion Ratio Lower Upper

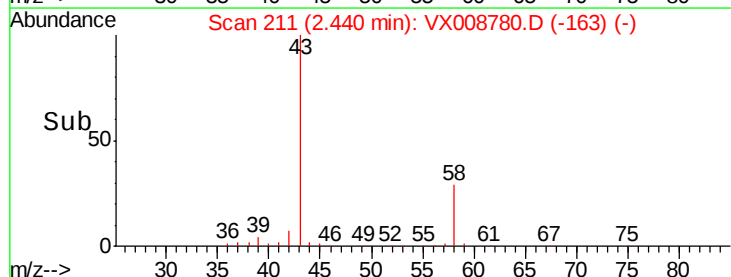
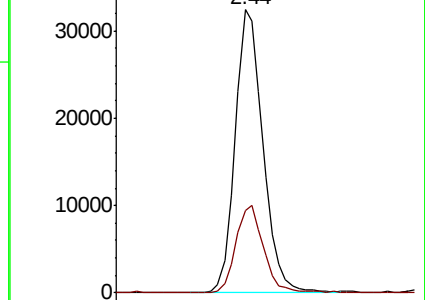
43 100

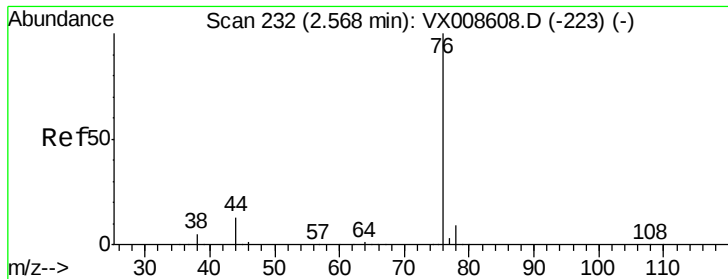
58 29.0 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008780.D

Acq: 09 Apr 2019 18:55

Instrument :

MSVOA_X

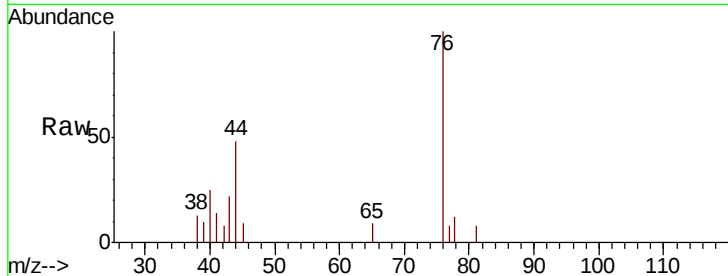
ClientSampleId :

Tot Ion: 76 Resp: 1254

Ion Ratio Lower Upper

76 100

78 12.5 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

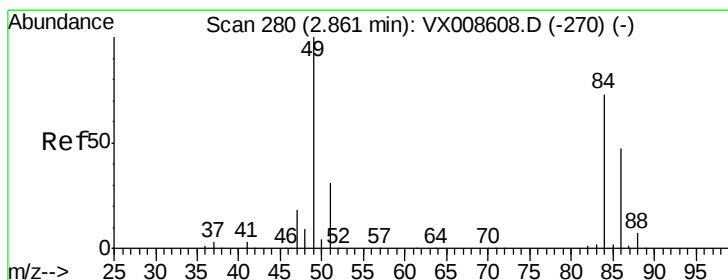
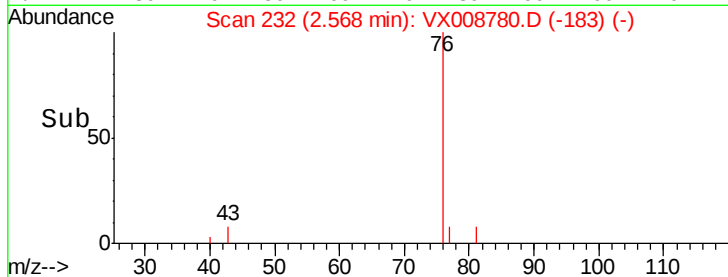
600

400

200

0

Time--> 2.50 2.55 2.60



#20

Methylene Chloride

Concen: 0.360 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX008780.D

Acq: 09 Apr 2019 18:55

Tgt Ion: 84 Resp: 1051

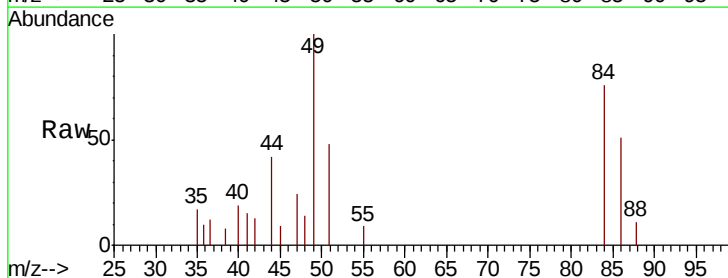
Ion Ratio Lower Upper

84 100

49 131.5 109.7 164.5

51 62.7 33.6 50.4#

86 67.5 51.4 77.2



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

1200

1000

800

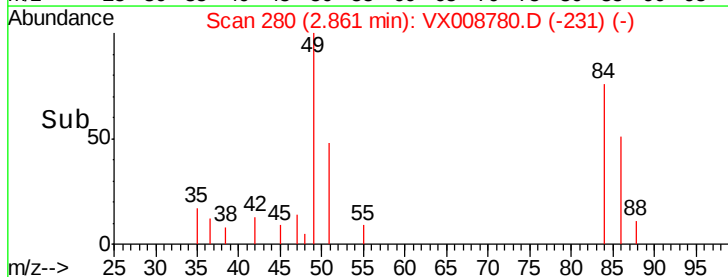
600

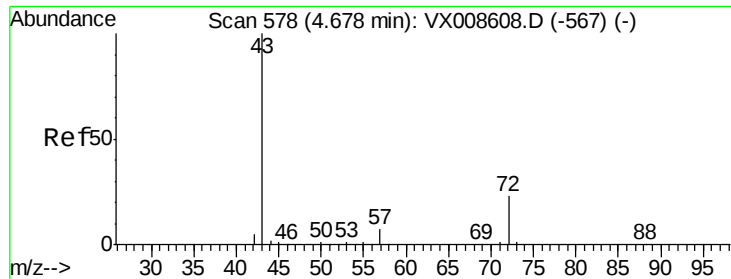
400

200

0

Time--> 2.80 2.85 2.90





#25

2-Butanone

Concen: 6.517 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX008780.D

Acq: 09 Apr 2019 18:55

Instrument :

MSVOA_X

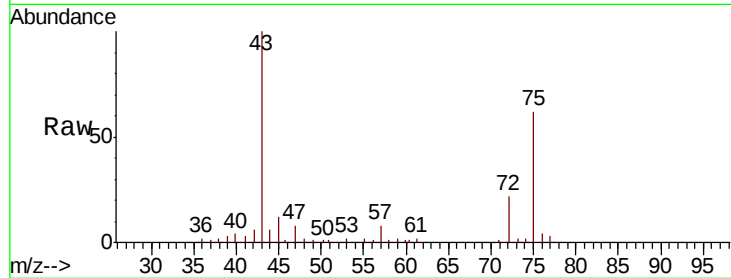
ClientSampled :

Tot Ion: 43 Resp: 17966

Ion Ratio Lower Upper

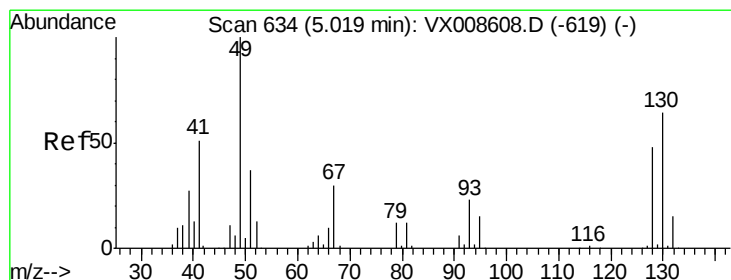
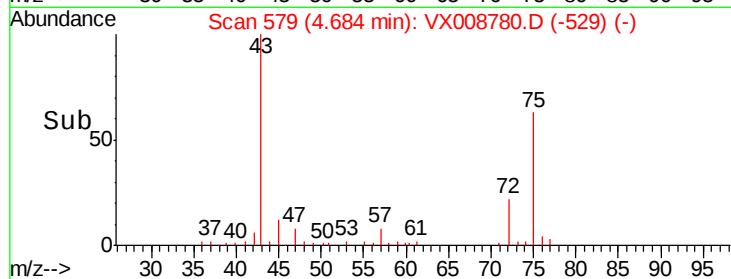
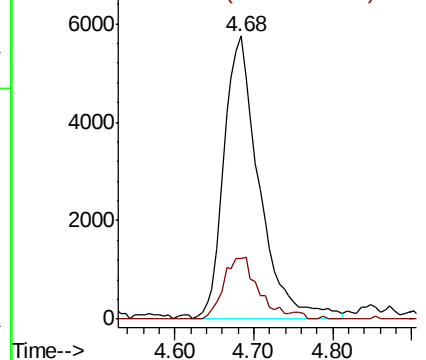
43 100

72 21.5 18.2 27.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX008780.D

Acq: 09 Apr 2019 18:55

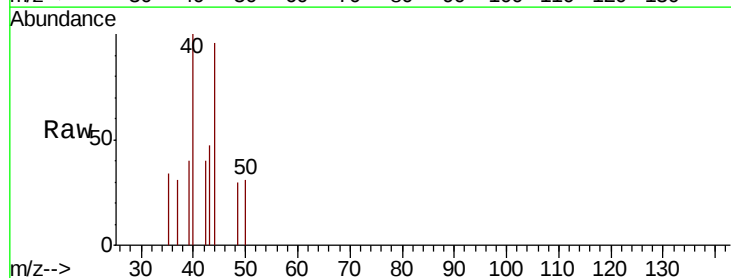
Tgt Ion: 49 Resp: 18

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

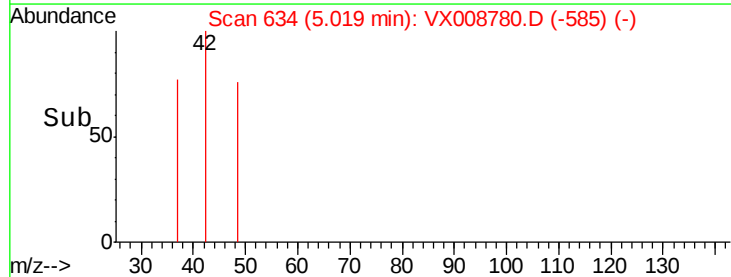
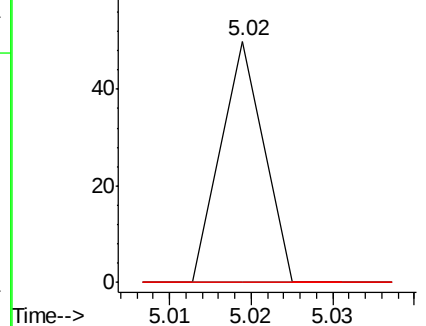
130 0.0 49.3 73.9#

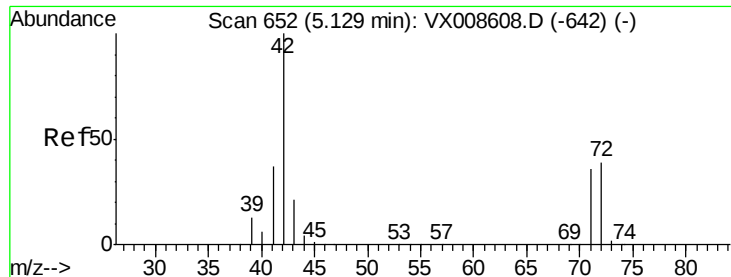


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

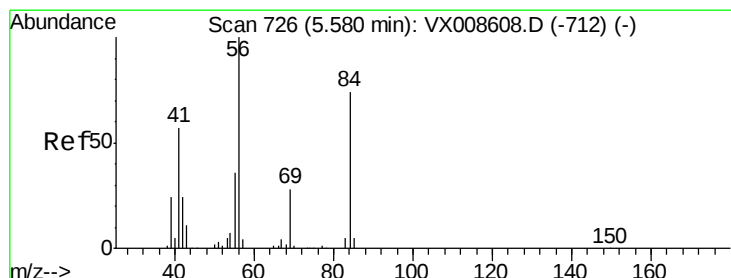
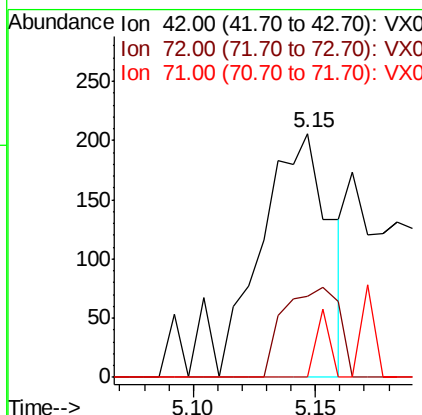
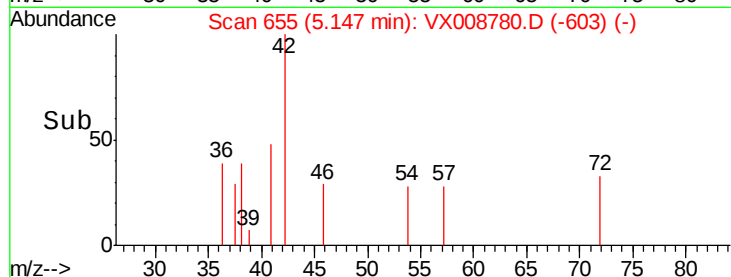
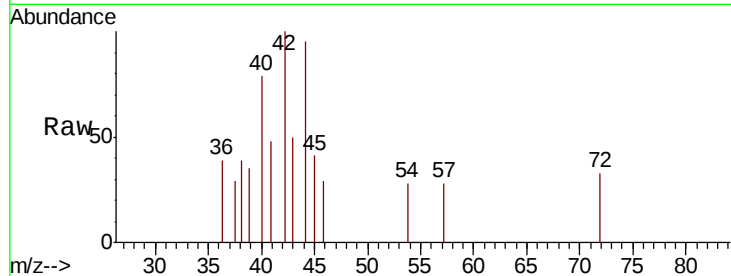




#29
Tetrahydrofuran
Concen: 0.231 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX008780.D
Acq: 09 Apr 2019 18:55

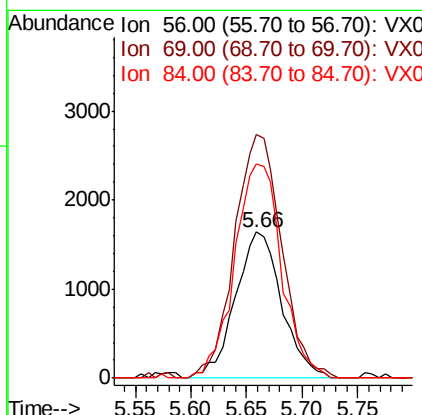
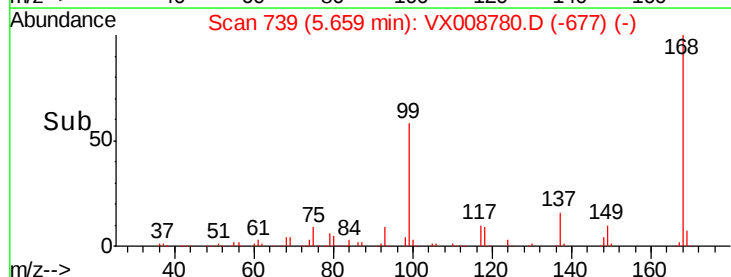
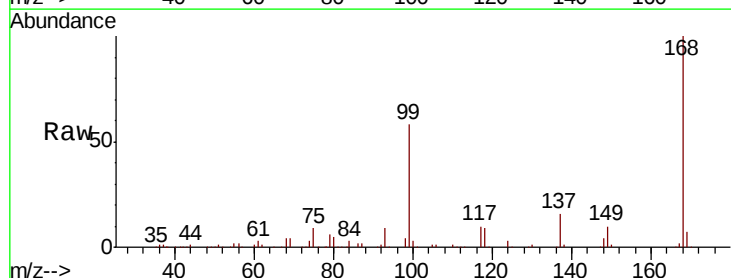
Instrument :
MSVOA_X
ClientSampled :

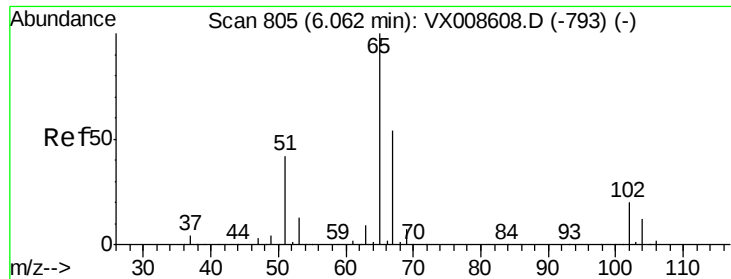
Tot Ion: 42 Resp: 422
Ion Ratio Lower Upper
42 100
72 28.4 30.5 45.7#
71 5.0 28.6 43.0#



#31
Cyclohexane
Concen: 0.907 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008780.D
Acq: 09 Apr 2019 18:55

Tgt Ion: 56 Resp: 4748
Ion Ratio Lower Upper
56 100
69 166.4 22.6 33.8#
84 146.5 59.3 88.9#

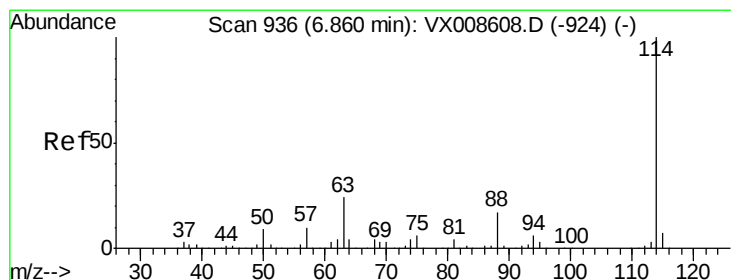
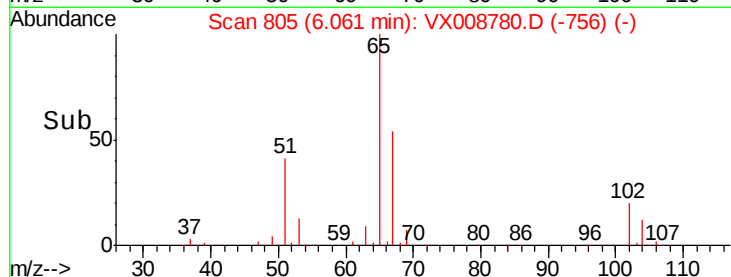
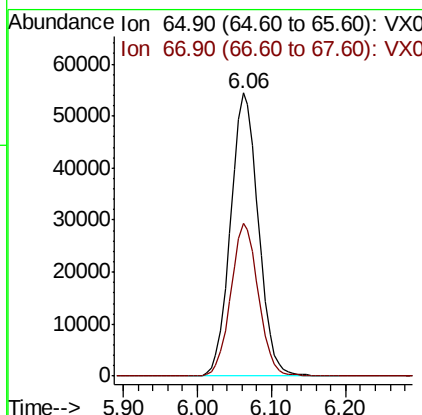
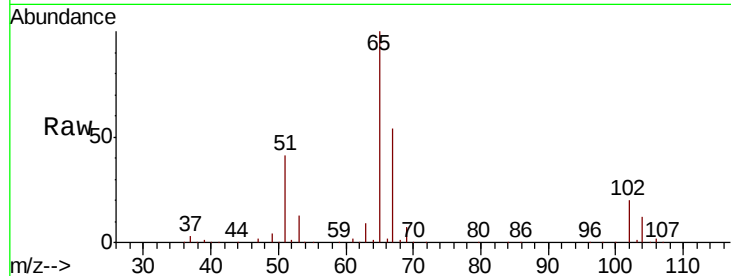




#33
 1,2-Dichloroethane-d4
 Concen: 47.155 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008780.D
 Acq: 09 Apr 2019 18:55

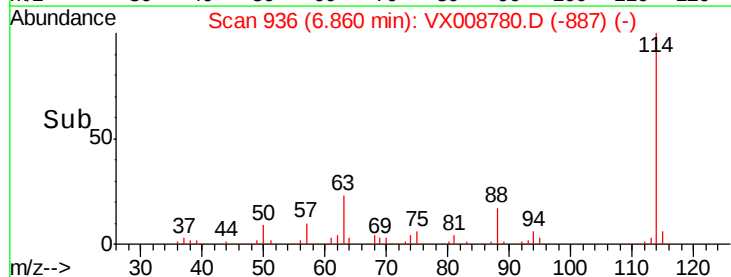
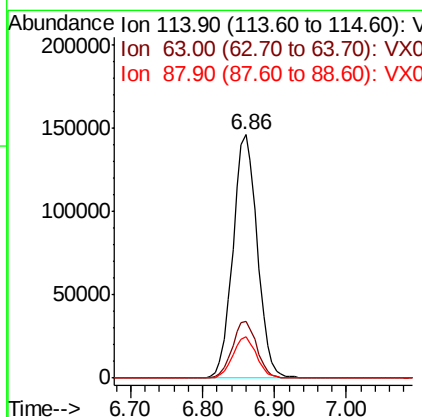
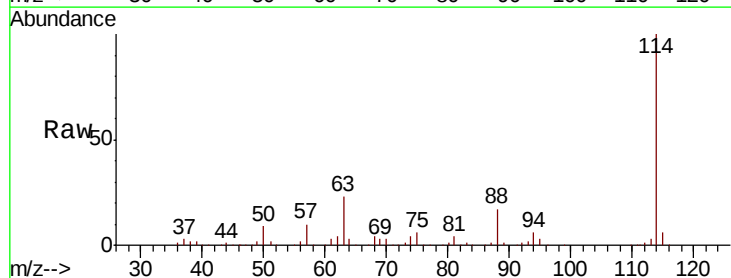
Instrument :
 MSVOA_X
 ClientSampleId :

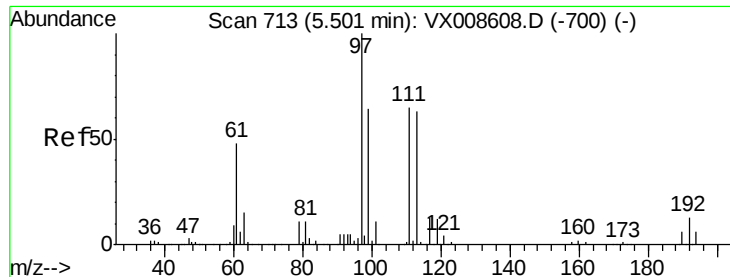
Tot Ion: 65 Resp: 142800
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008780.D
 Acq: 09 Apr 2019 18:55

Tgt Ion: 114 Resp: 343430
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 47.2
 88 17.2 0.0 34.0





#35

Dibromofluoromethane

Concen: 47.166 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008780.D

Acq: 09 Apr 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

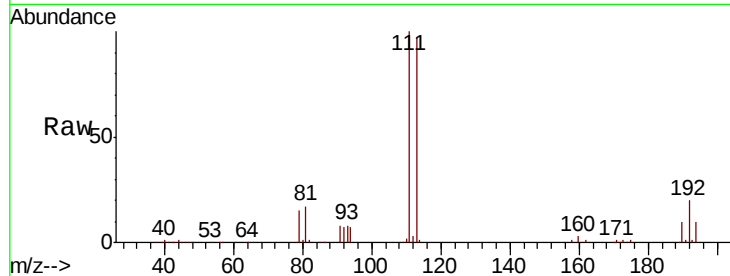
Tot Ion:113 Resp: 103565

Ion Ratio Lower Upper

113 100

111 103.3 83.4 125.2

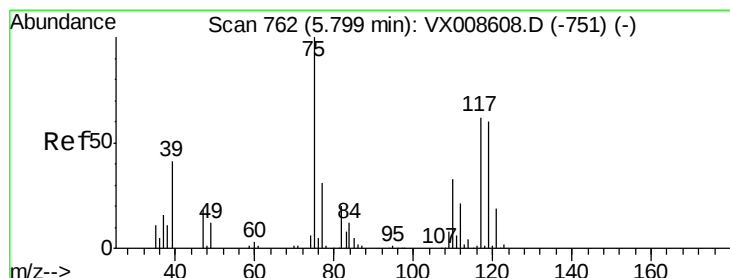
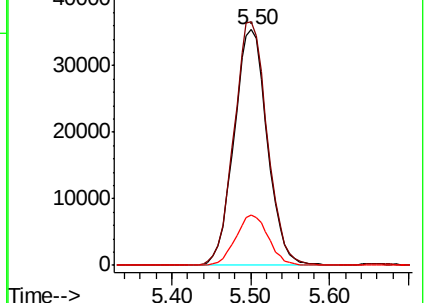
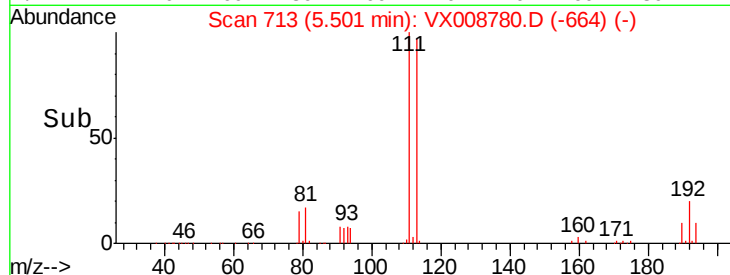
192 21.0 16.1 24.1



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: 4.569 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008780.D

Acq: 09 Apr 2019 18:55

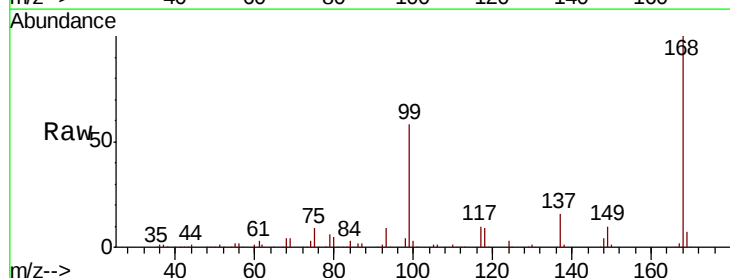
Tgt Ion: 75 Resp: 17151

Ion Ratio Lower Upper

75 100

110 8.5 16.4 49.2#

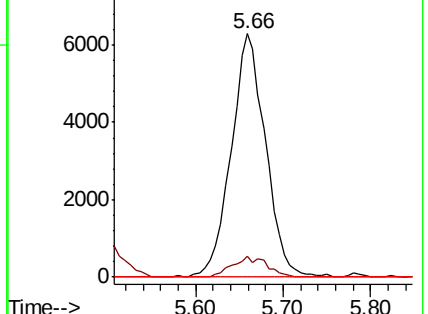
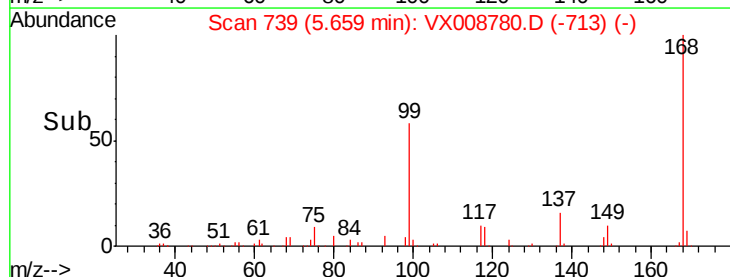
77 0.0 24.7 37.1#

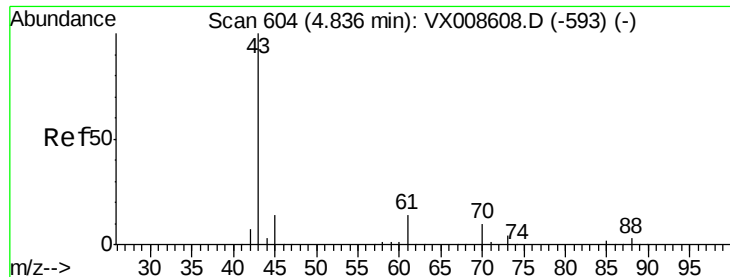


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 3.585 ug/l

RT: 4.68 min Scan# 579

Delta R.T. -0.15 min

Lab File: VX008780.D

Acq: 09 Apr 2019 18:55

Instrument :

MSVOA_X

ClientSampleId :

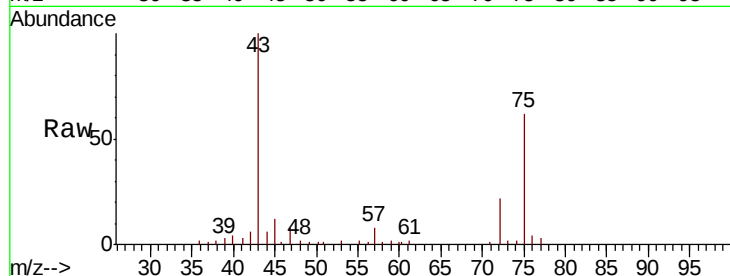
Tot Ion: 43 Resp: 17966

Ion Ratio Lower Upper

43 100

61 3.4 10.3 15.5#

70 0.0 7.6 11.4#

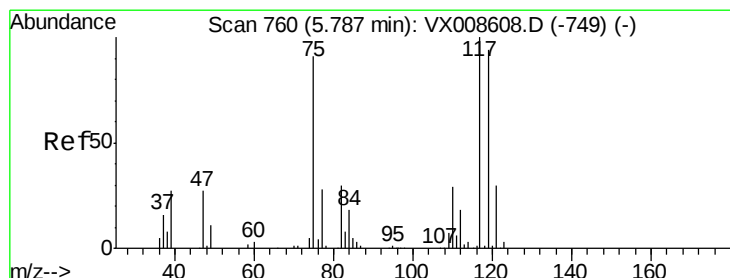
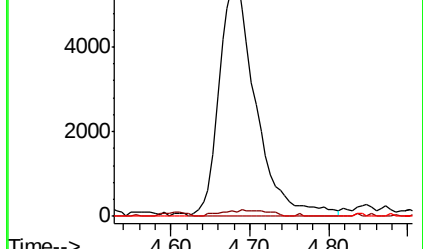
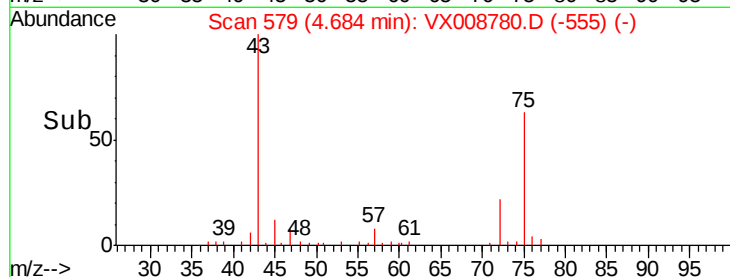


Abundance Ion 43.00 (42.70 to 43.70): VX008780.D (-579) (-)

Ion 60.90 (60.60 to 61.60): VX008780.D (-579) (-)

Ion 70.00 (69.70 to 70.70): VX008780.D (-579) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.354 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008780.D

Acq: 09 Apr 2019 18:55

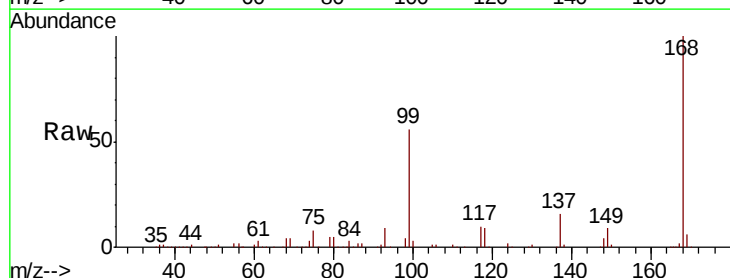
Tgt Ion: 117 Resp: 19742

Ion Ratio Lower Upper

117 100

119 4.7 75.0 112.6#

121 0.0 24.3 36.5#

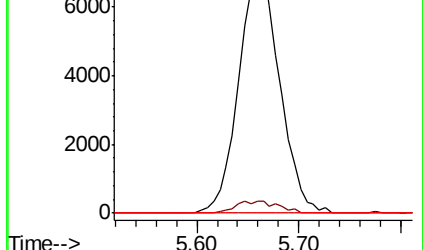
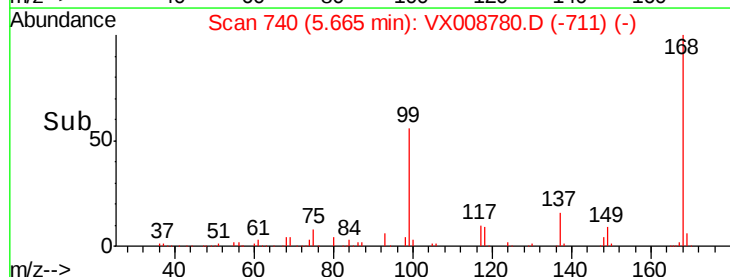


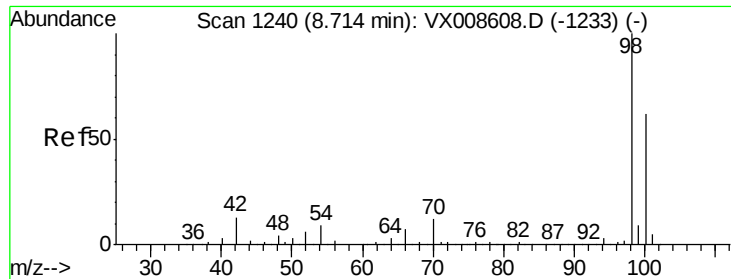
Abundance Ion 116.80 (116.50 to 117.50): VX008780.D (-740) (-)

Ion 118.80 (118.50 to 119.50): VX008780.D (-740) (-)

Ion 120.80 (120.50 to 121.50): VX008780.D (-740) (-)

Time-->

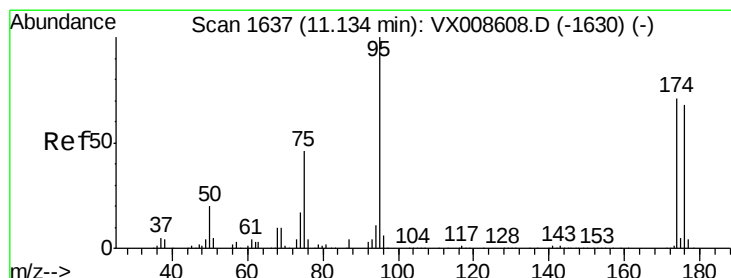
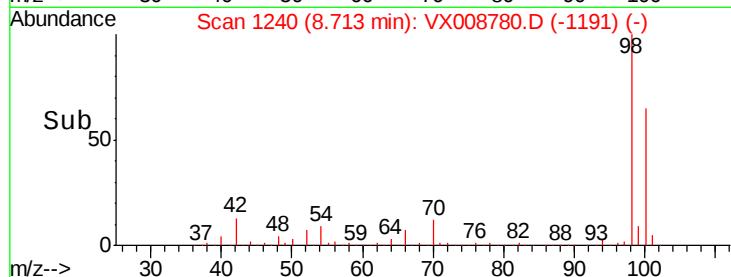
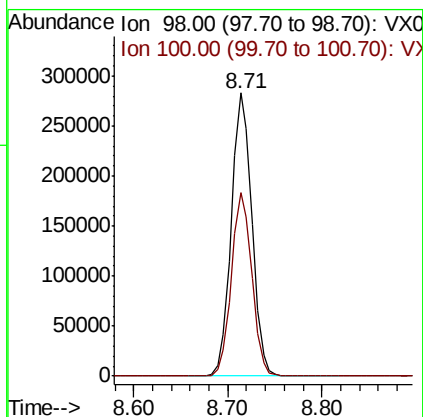
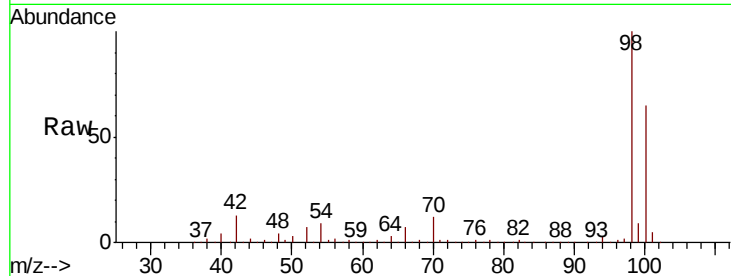




#50
Toluene-d8
Concen: 49.050 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008780.D
Acq: 09 Apr 2019 18:55

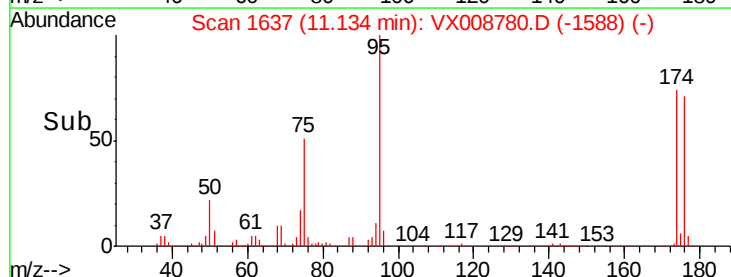
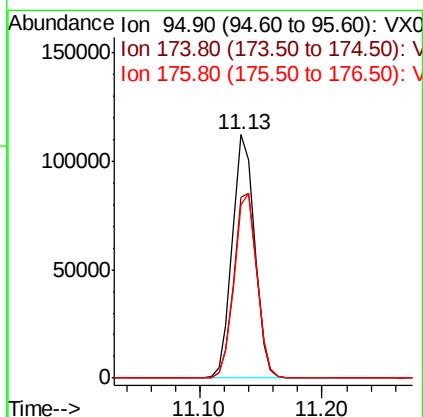
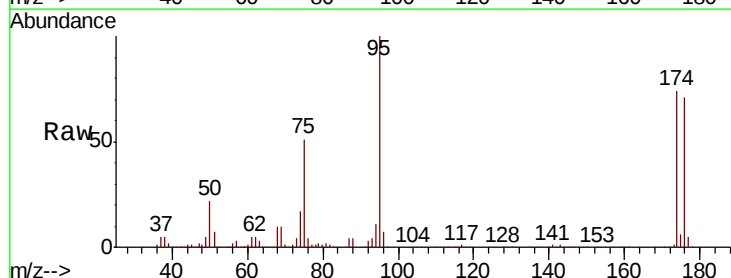
Instrument :
MSVOA_X
ClientSampleId :

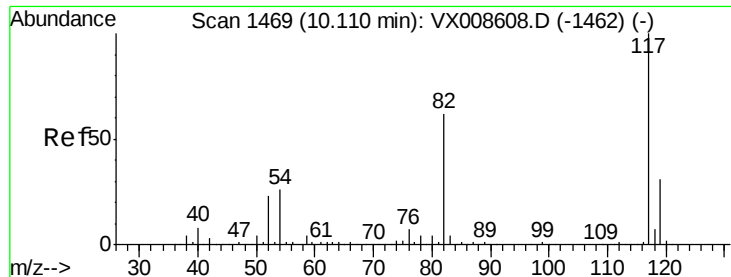
Tot Ion: 98 Resp: 428844
Ion Ratio Lower Upper
98 100
100 64.2 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 45.703 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008780.D
Acq: 09 Apr 2019 18:55

Tgt Ion: 95 Resp: 141696
Ion Ratio Lower Upper
95 100
174 78.0 0.0 151.8
176 76.1 0.0 145.8

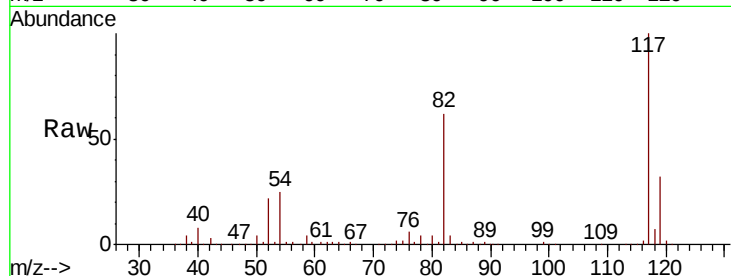




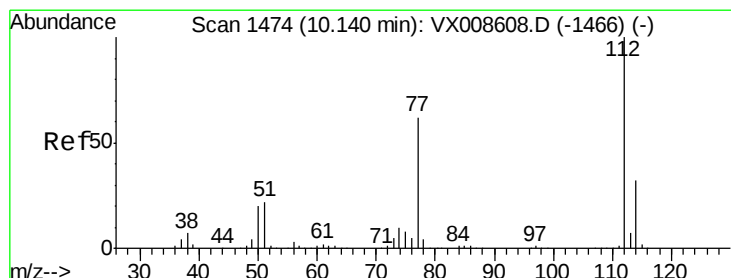
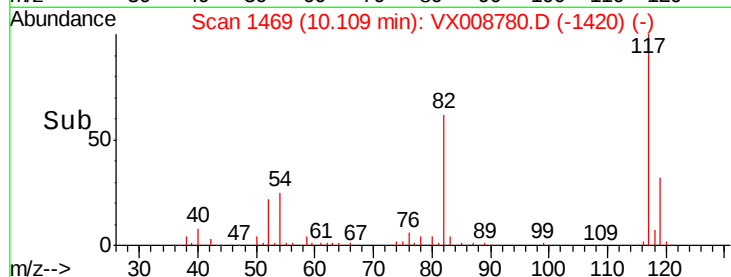
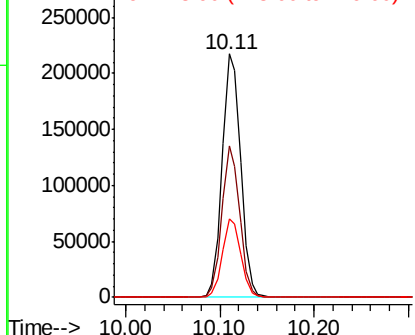
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008780.D
Acq: 09 Apr 2019 18:55

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 296307
Ion Ratio Lower Upper
117 100
82 62.2 49.6 74.4
119 32.2 25.0 37.4

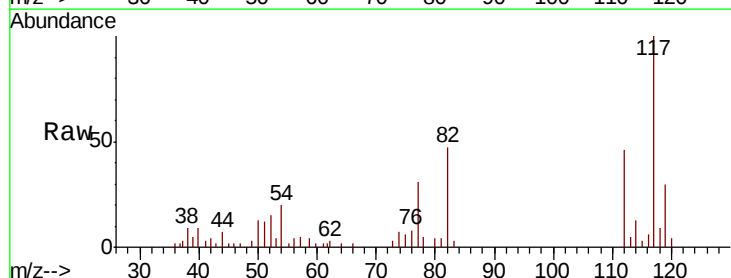


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

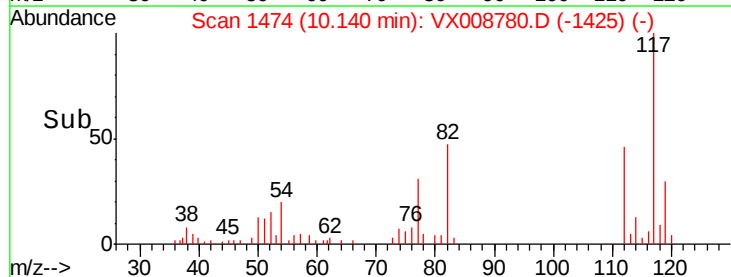
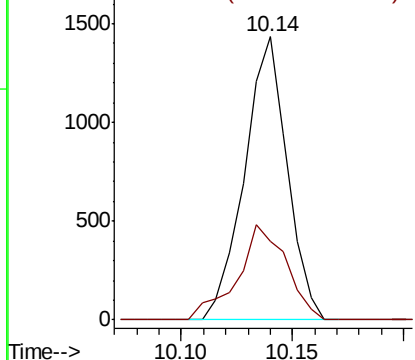


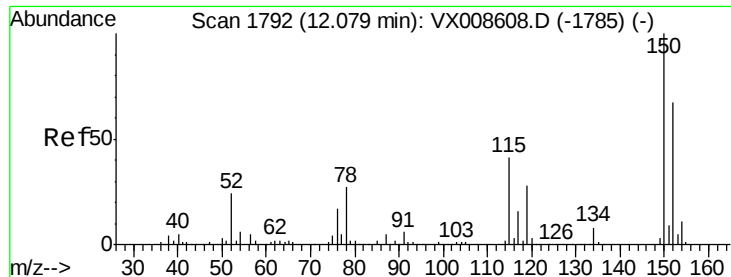
#65
Chlorobenzene
Concen: 0.291 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX008780.D
Acq: 09 Apr 2019 18:55

Tgt Ion:112 Resp: 1911
Ion Ratio Lower Upper
112 100
114 27.8 25.8 38.8



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



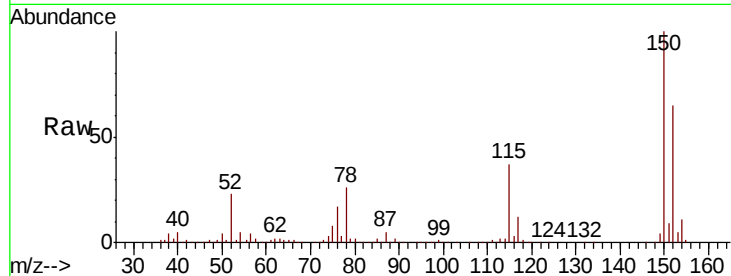


#72

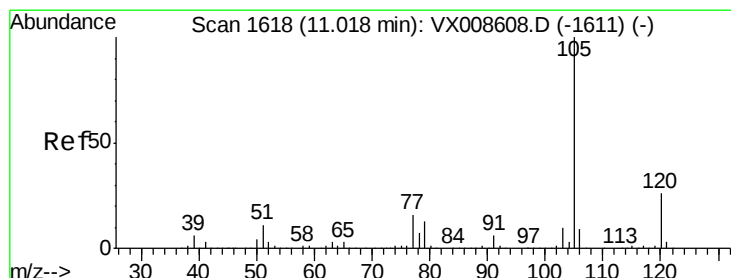
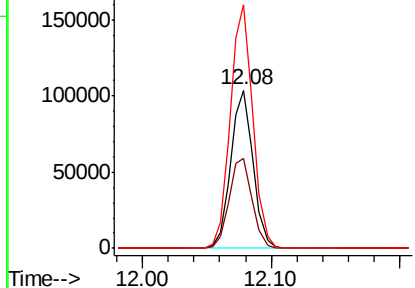
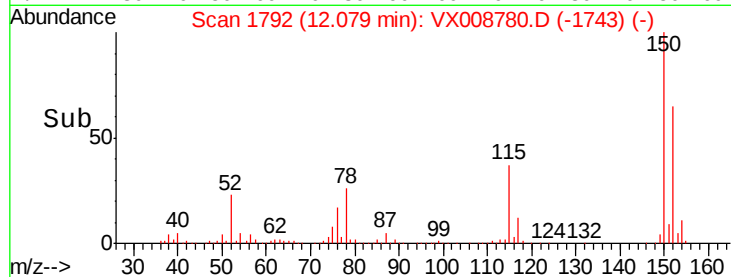
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008780.D
Acq: 09 Apr 2019 18:55

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.2	43.5	130.5
150	155.6	0.0	348.8



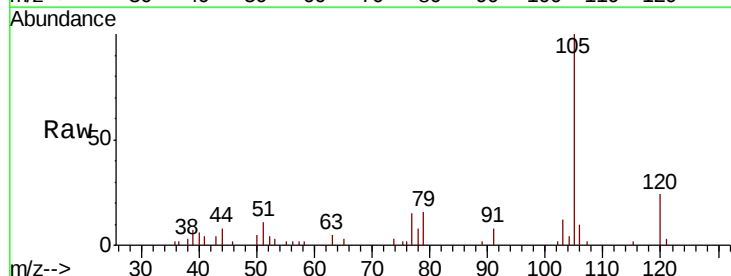
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



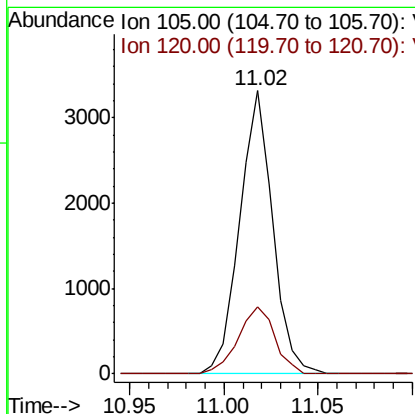
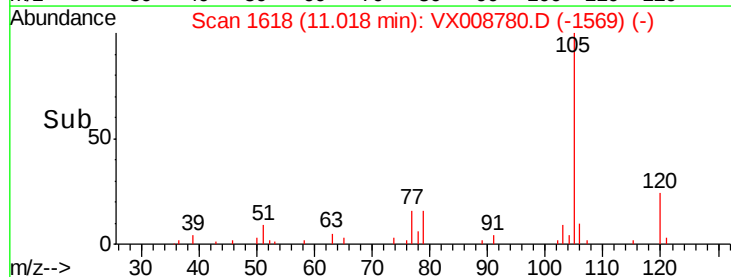
#73

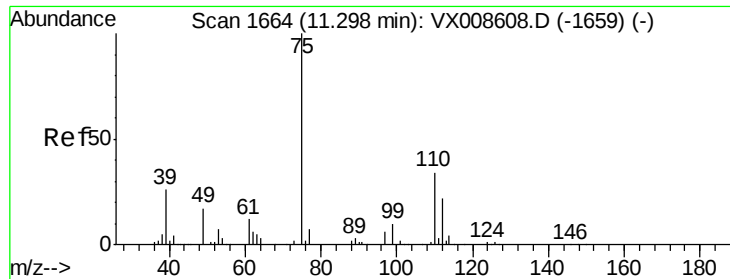
Isopropylbenzene
Concen: 0.387 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VX008780.D
Acq: 09 Apr 2019 18:55

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.3	12.9	38.6



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

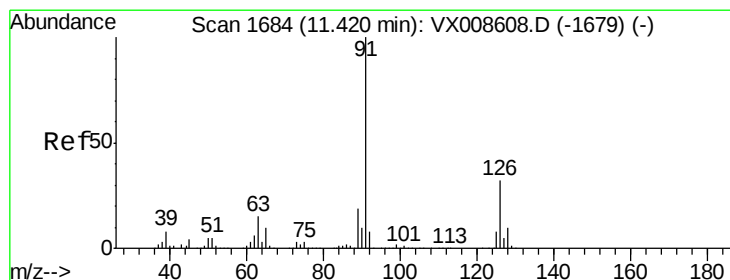
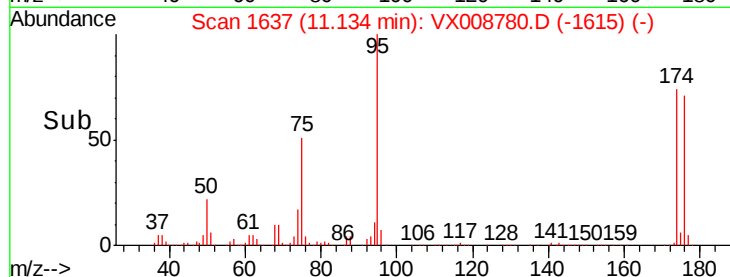
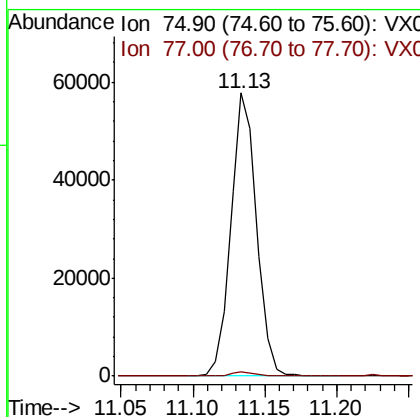
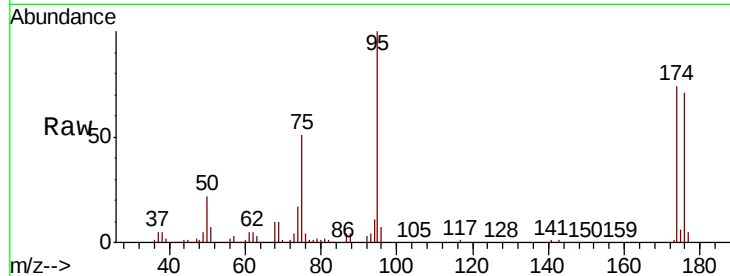




#76
 1,2,3-Trichloropropane
 Concen: 20.964 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008780.D
 Acq: 09 Apr 2019 18:55

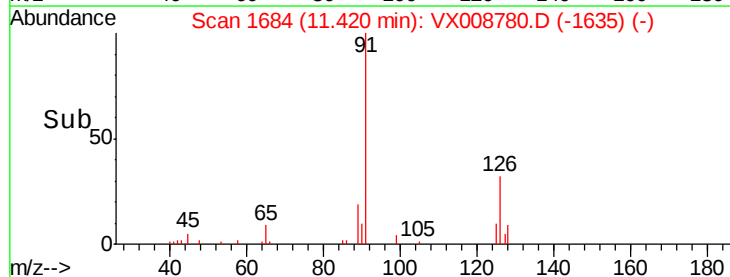
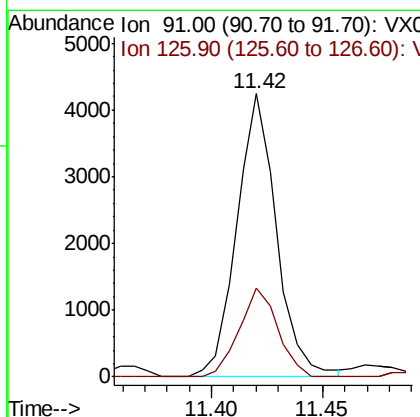
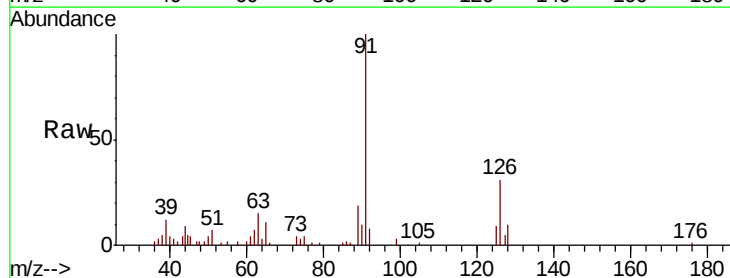
Instrument :
 MSVOA_X
 ClientSampleId :

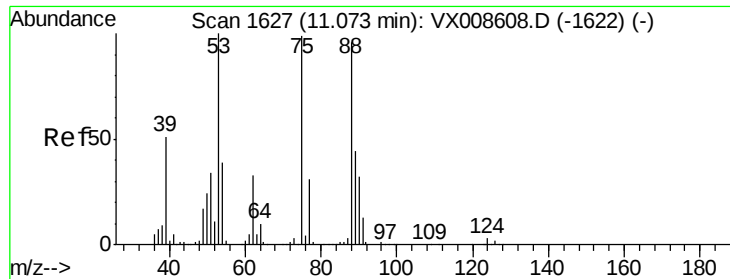
Tot Ion: 75 Resp: 72317
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.3 66.8#



#79
 2-Chlorotoluene
 Concen: 0.719 ug/l
 RT: 11.42 min Scan# 1684
 Delta R.T. -0.00 min
 Lab File: VX008780.D
 Acq: 09 Apr 2019 18:55

Tgt Ion: 91 Resp: 5269
 Ion Ratio Lower Upper
 91 100
 126 30.5 16.1 48.3

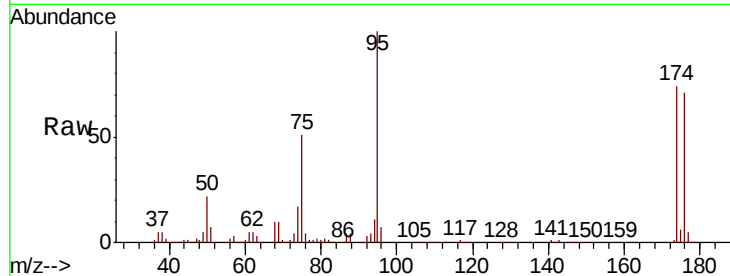




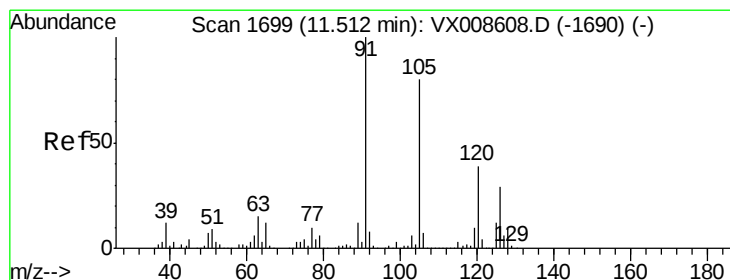
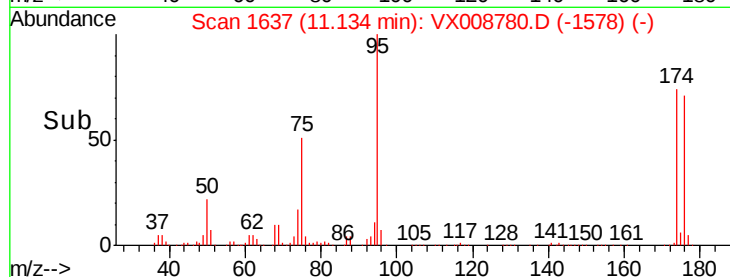
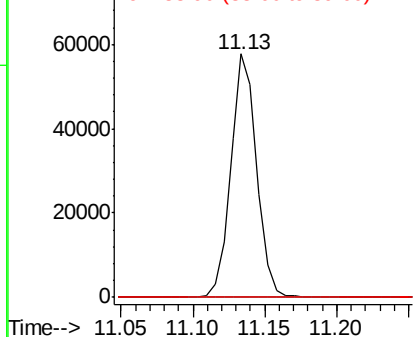
#81
trans-1,4-Dichloro-2-butene
Concen: 57.787 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX008780.D
Acq: 09 Apr 2019 18:55

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 72317
Ion Ratio Lower Upper
75 100
53 0.0 81.3 121.9#
89 0.0 35.6 53.4#

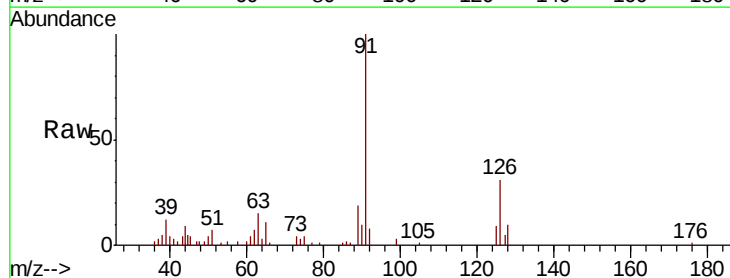


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0

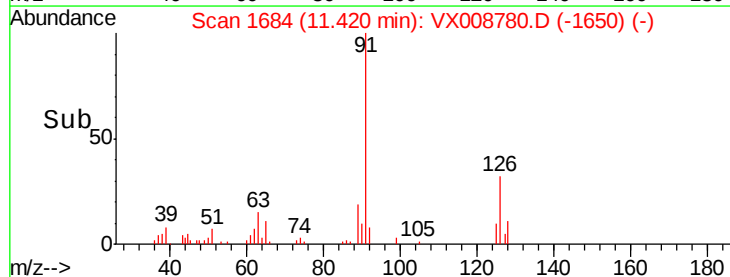
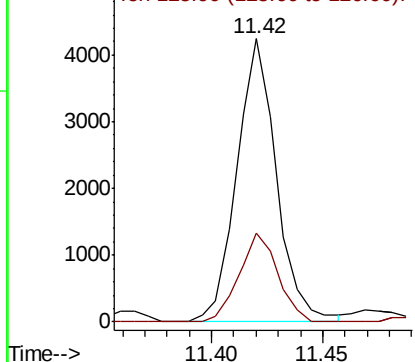


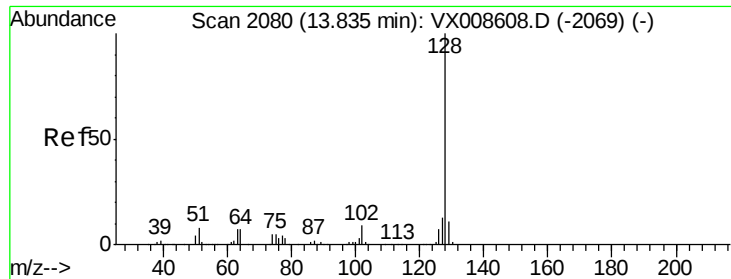
#82
4-Chlorotoluene
Concen: 0.621 ug/l
RT: 11.42 min Scan# 1684
Delta R.T. -0.09 min
Lab File: VX008780.D
Acq: 09 Apr 2019 18:55

Tgt Ion: 91 Resp: 5269
Ion Ratio Lower Upper
91 100
126 30.5 13.9 41.6



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 125.90 (125.60 to 126.60): V

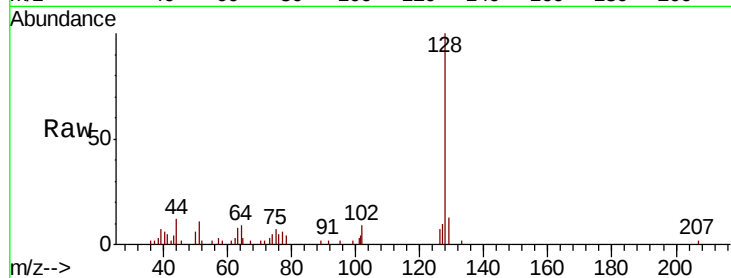




#95
Naphthalene
Concen: 0.426 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX008780.D
Acq: 09 Apr 2019 18:55

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.8	10.4	15.6
129	13.1	8.6	13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

