

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082918\
 Data File : VX004286.D
 Acq On : 29 Aug 2018 12:17
 Operator : JC/MD
 Sample : J4682-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW16-001-Y4S3

Quant Time: Aug 30 02:07:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	273397	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	428668	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	407604	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	225832	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	190366	53.42	ug/l	0.00
Spiked Amount			Recovery	=	106.84%	
35) Dibromofluoromethane	5.50	113	166229	52.13	ug/l	0.00
Spiked Amount			Recovery	=	104.26%	
50) Toluene-d8	8.71	98	603147	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	
62) 4-Bromofluorobenzene	11.14	95	211230	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	

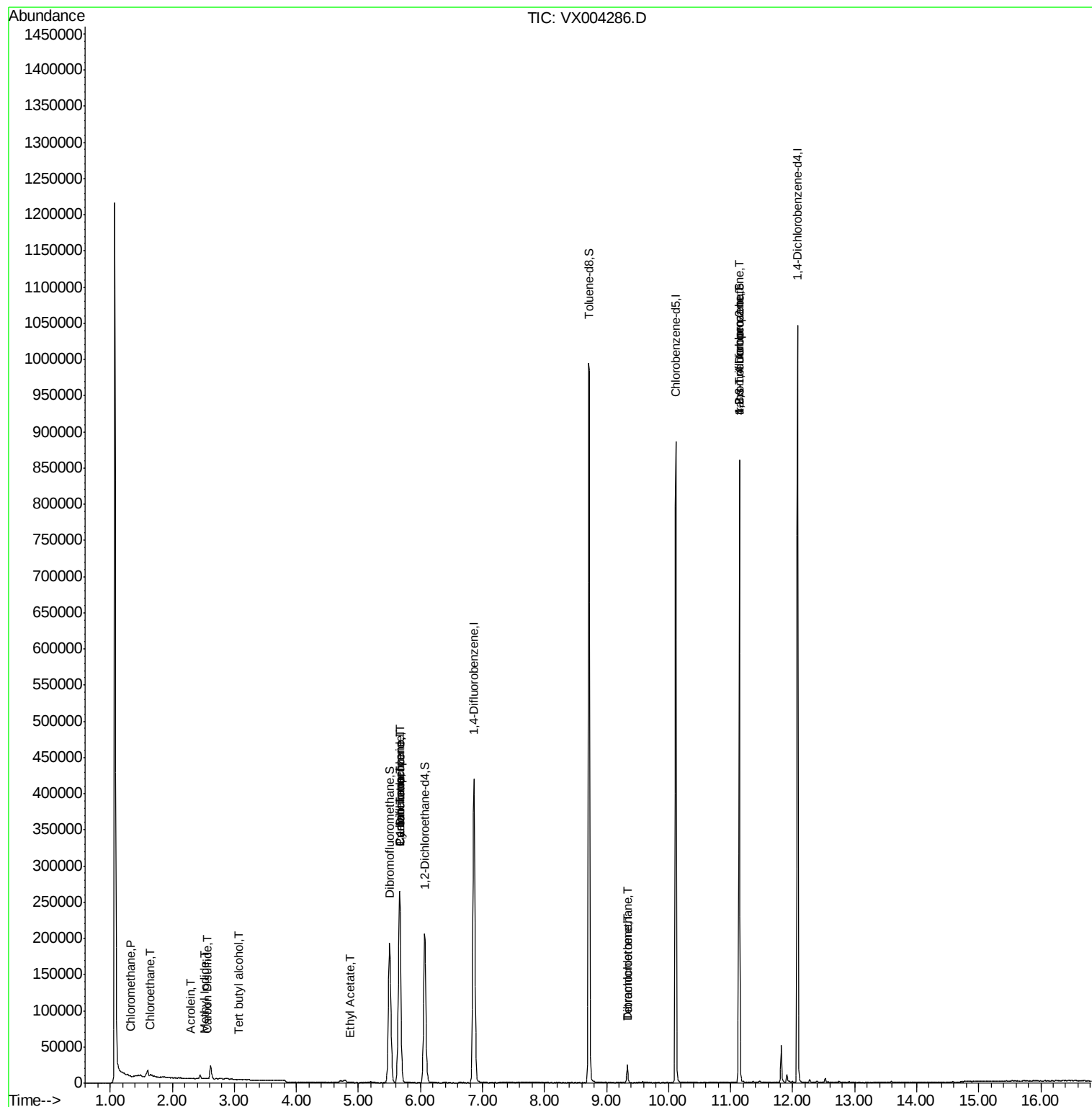
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1291	0.66	ug/l	96
5) Bromomethane	1.65	94	1269	Below Cal	#	80
6) Chloroethane	1.65	64	285	1.07	ug/l	# 67
10) Methyl Iodide	2.52	142	1004	4.53	ug/l	# 95
11) Tert butyl alcohol	3.07	59	838	1.10	ug/l	# 93
13) Acrolein	2.30	56	177	0.97	ug/l	# 42
16) Acetone	2.45	43	5501	Below Cal		98
17) Carbon Disulfide	2.57	76	1350	0.96	ug/l	# 69
25) 2-Butanone	4.71	43	5334	Below Cal		95
31) Cyclohexane	5.66	56	4787	0.96	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	17937	3.72	ug/l	# 49
37) Ethyl Acetate	4.87	43	1290	0.27	ug/l	# 69
38) Carbon Tetrachloride	5.67	117	23986	5.29	ug/l	# 17
60) Dibromochloromethane	9.34	129	4332	1.22	ug/l	# 11
64) Tetrachloroethene	9.34	164	4920	1.22	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	100401	21.86	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	100401	70.92	ug/l	# 10
94) Hexachlorobutadiene	13.79	225	110	Below Cal		94

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX004286.D

Acq: 29 Aug 2018 12:17

Instrument :

MSVOA_X

ClientSampleId :

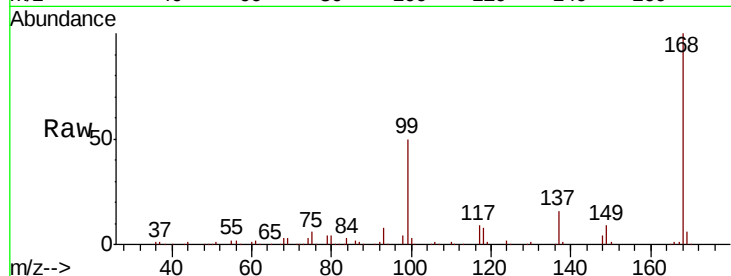
MW16-001-Y4S3

Tot Ion:168 Resp: 273397

Ion Ratio Lower Upper

168 100

99 49.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

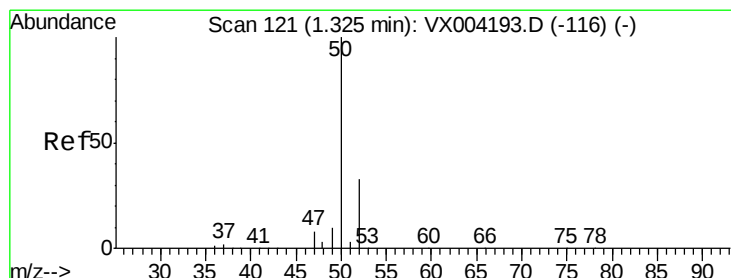
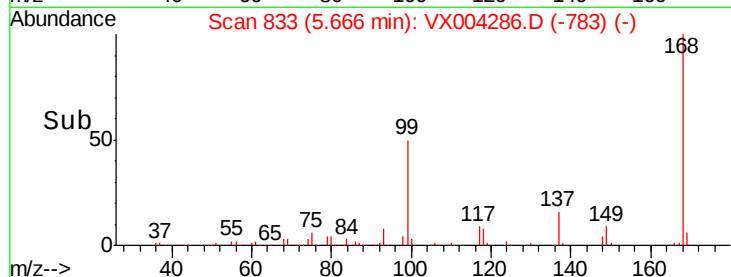
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.66 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004286.D

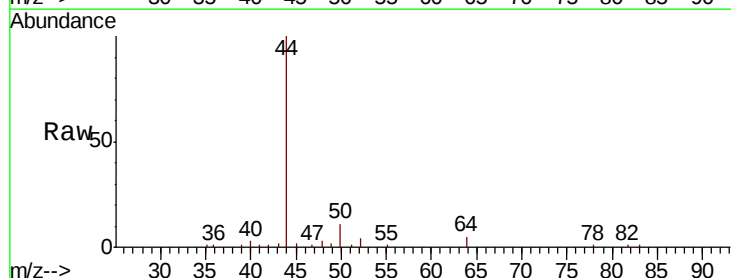
Acq: 29 Aug 2018 12:17

Tgt Ion: 50 Resp: 1291

Ion Ratio Lower Upper

50 100

52 34.8 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

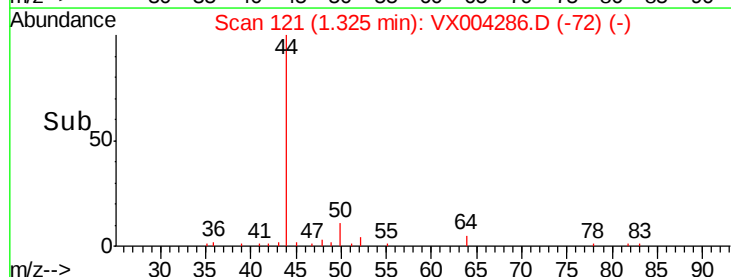
600

400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004286.D

Acq: 29 Aug 2018 12:17

Instrument :

MSVOA_X

ClientSampleId :

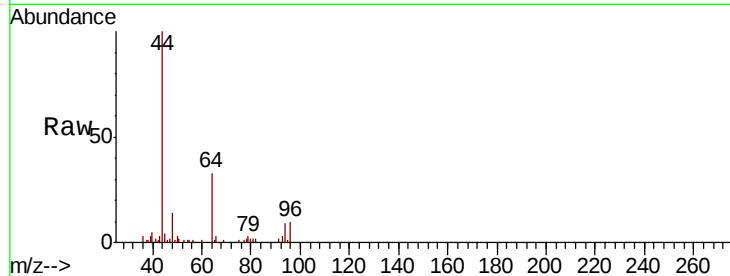
MW16-001-Y4S3

Tot Ion: 94 Resp: 1269

Ion Ratio Lower Upper

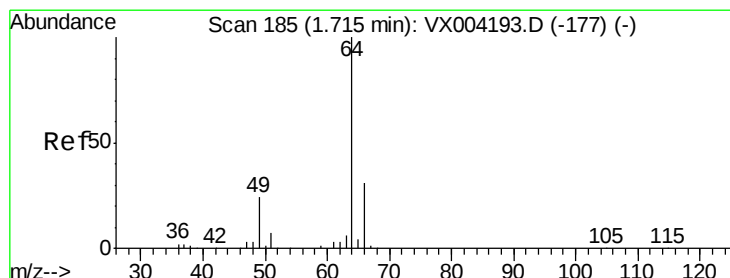
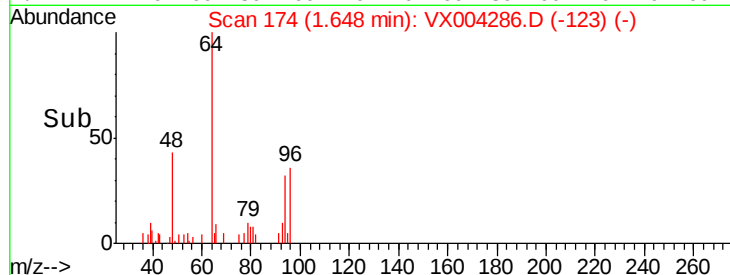
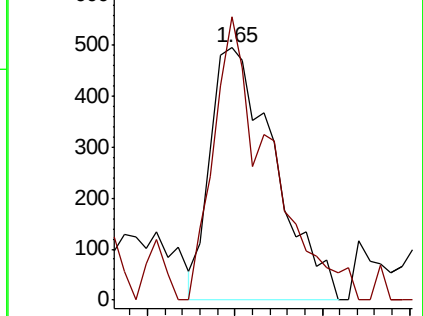
94 100

96 112.3 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.07 ug/l

RT: 1.65 min Scan# 174

Delta R.T. -0.07 min

Lab File: VX004286.D

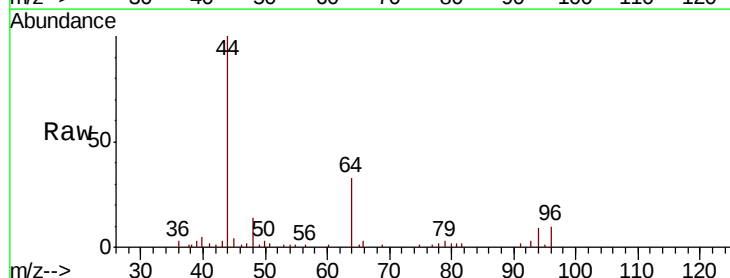
Acq: 29 Aug 2018 12:17

Tgt Ion: 64 Resp: 285

Ion Ratio Lower Upper

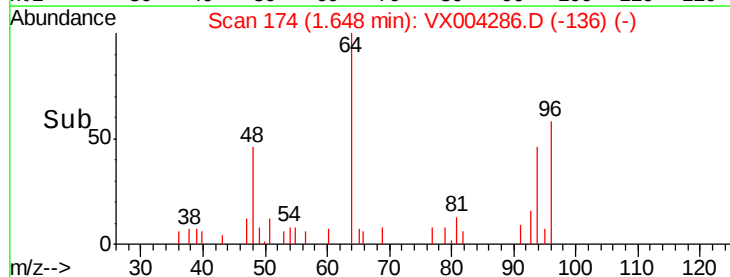
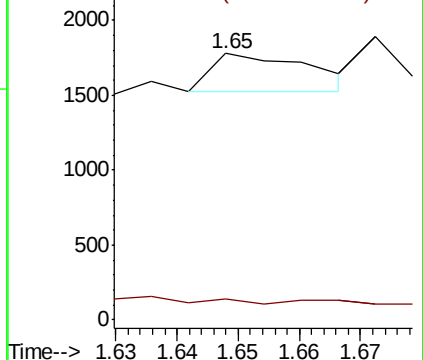
64 100

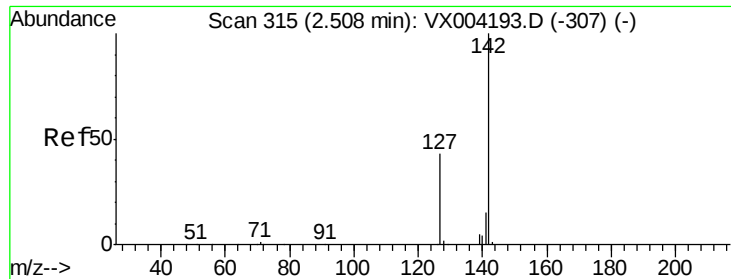
66 12.6 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

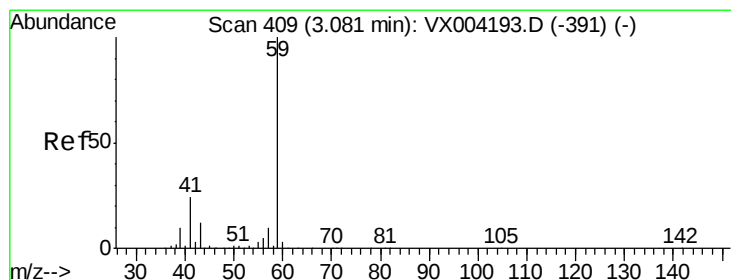
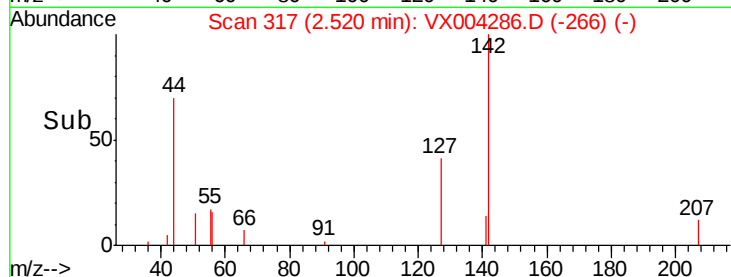
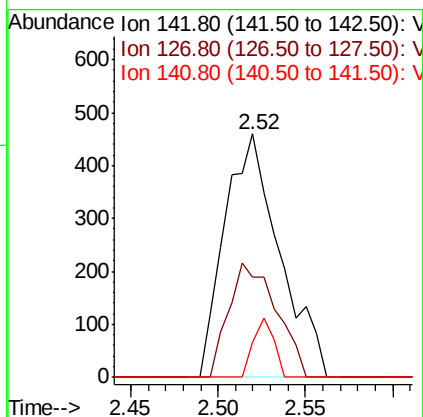
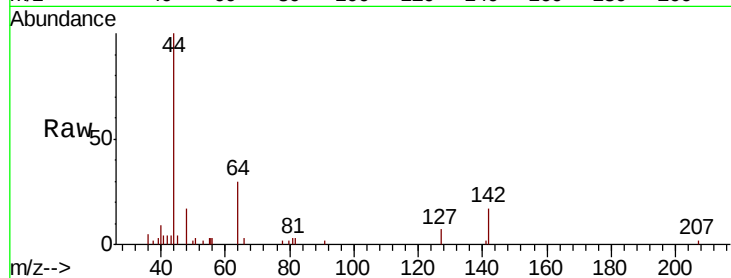




#10
Methvl Iodide
Concen: 4.53 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004286.D
Acq: 29 Aug 2018 12:17

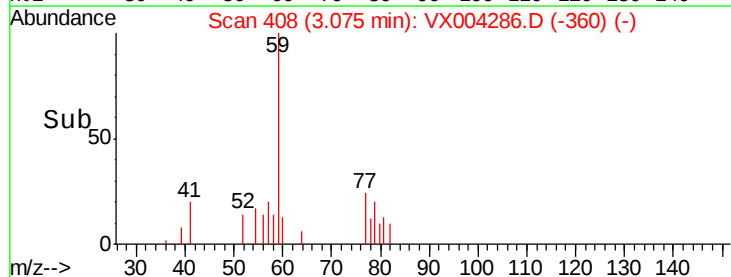
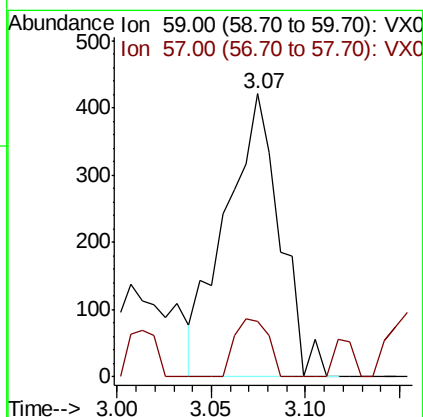
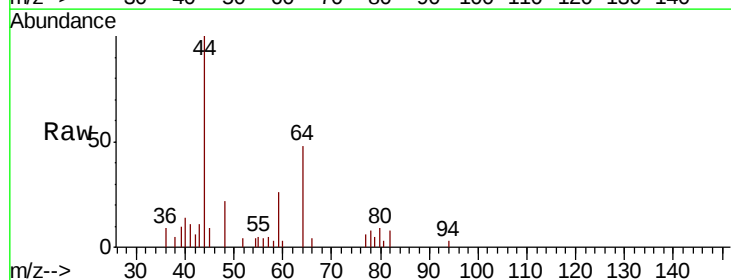
Instrument :
MSVOA_X
ClientSampleId :
MW16-001-Y4S3

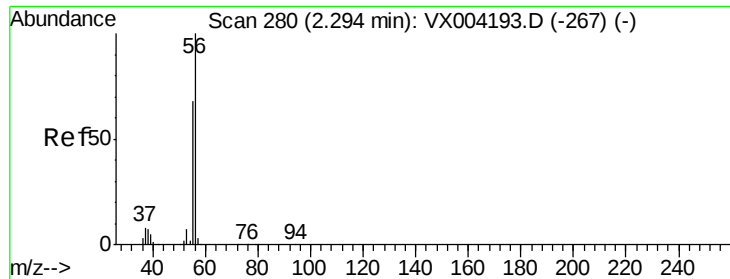
Tot Ion:142 Resp: 1004
Ion Ratio Lower Upper
142 100
127 40.6 33.8 50.6
141 9.1 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.10 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX004286.D
Acq: 29 Aug 2018 12:17

Tgt Ion: 59 Resp: 838
Ion Ratio Lower Upper
59 100
57 12.8 8.2 12.4#





#13

Acrolein

Concen: 0.97 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX004286.D

Acq: 29 Aug 2018 12:17

Instrument :

MSVOA_X

ClientSampleId :

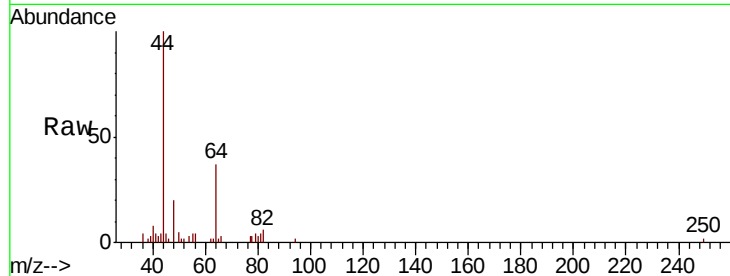
MW16-001-Y4S3

Tot Ion: 56 Resp: 177

Ion Ratio Lower Upper

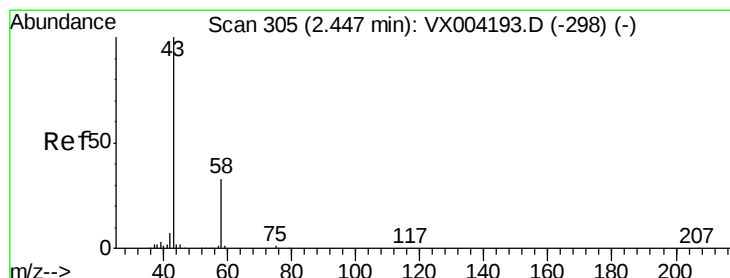
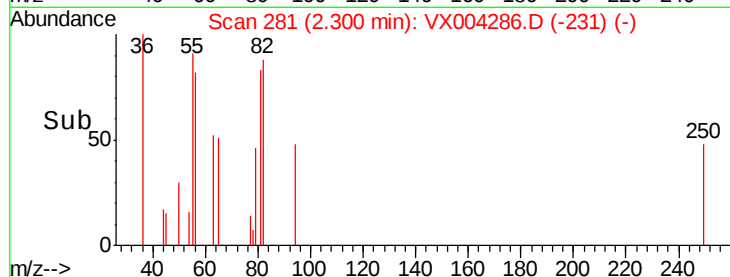
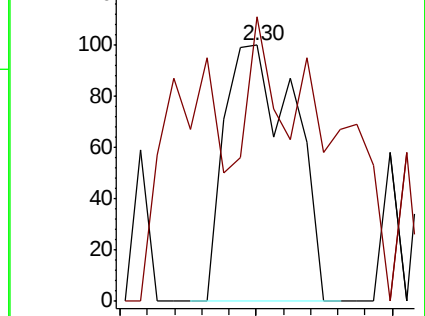
56 100

55 21.5 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004286.D

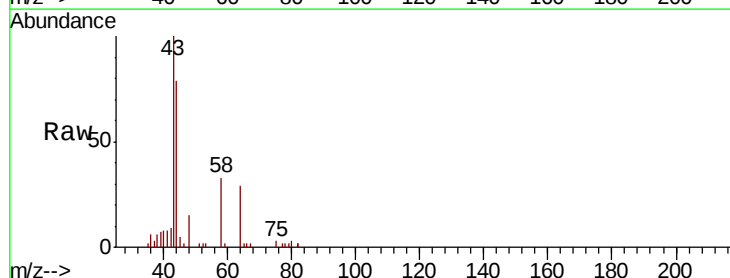
Acq: 29 Aug 2018 12:17

Tgt Ion: 43 Resp: 5501

Ion Ratio Lower Upper

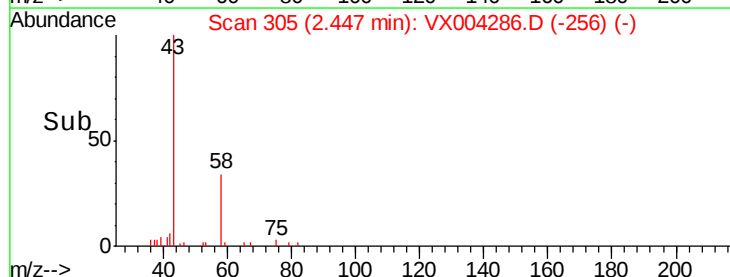
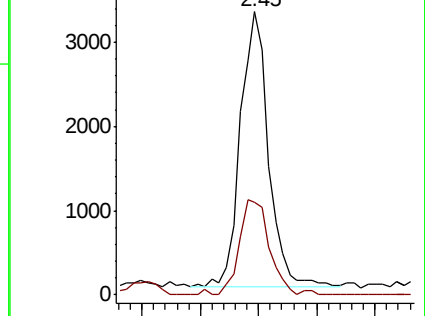
43 100

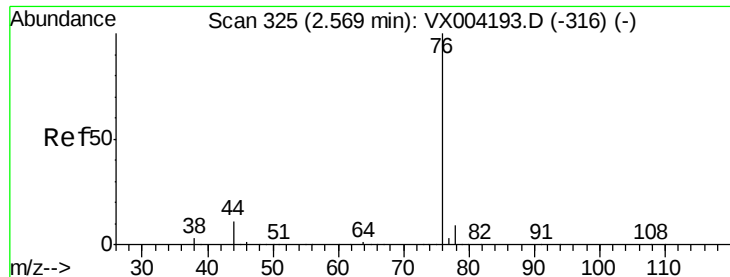
58 33.9 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.96 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004286.D

Acq: 29 Aug 2018 12:17

Instrument :

MSVOA_X

ClientSampleId :

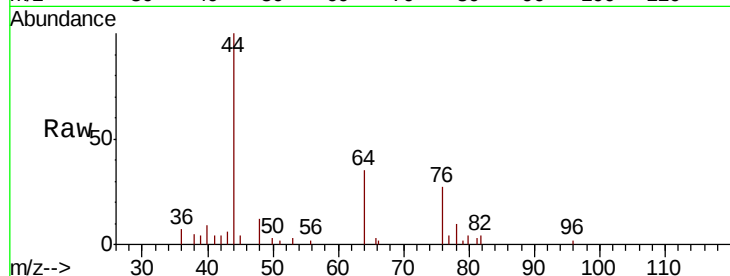
MW16-001-Y4S3

Tot Ion: 76 Resp: 1350

Ion Ratio Lower Upper

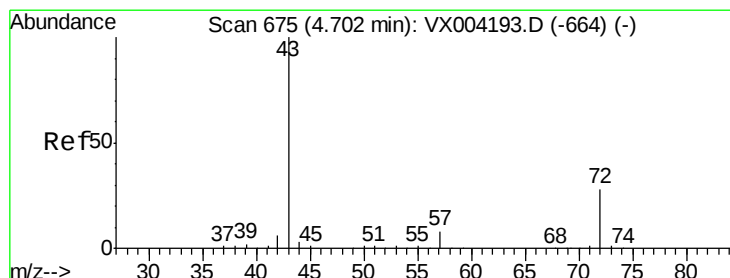
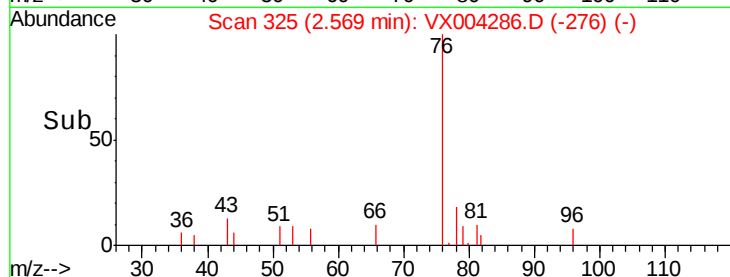
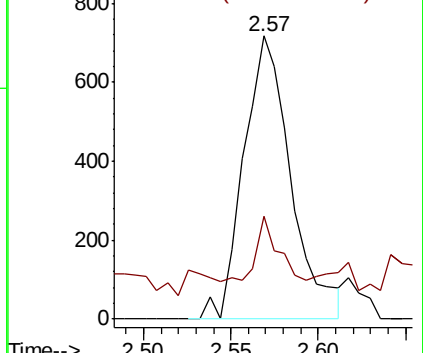
76 100

78 19.8 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#25

2-Butanone

Concen: Below Cal

RT: 4.71 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX004286.D

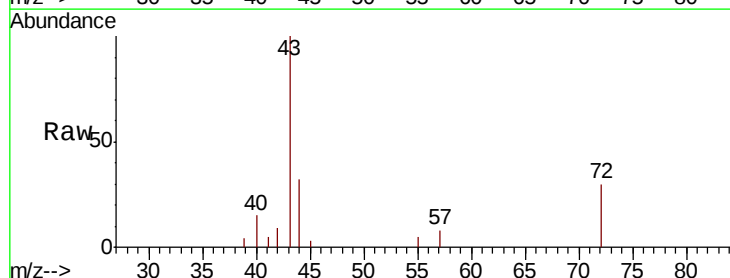
Acq: 29 Aug 2018 12:17

Tgt Ion: 43 Resp: 5334

Ion Ratio Lower Upper

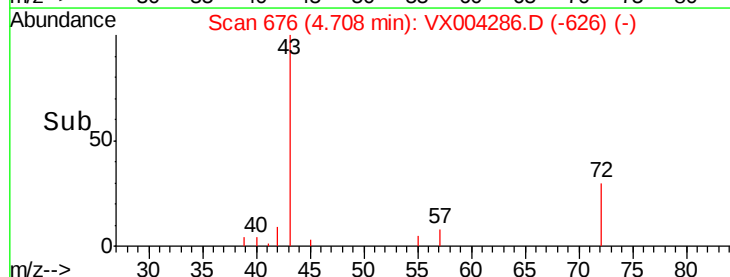
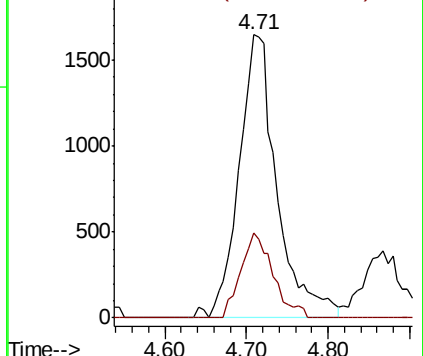
43 100

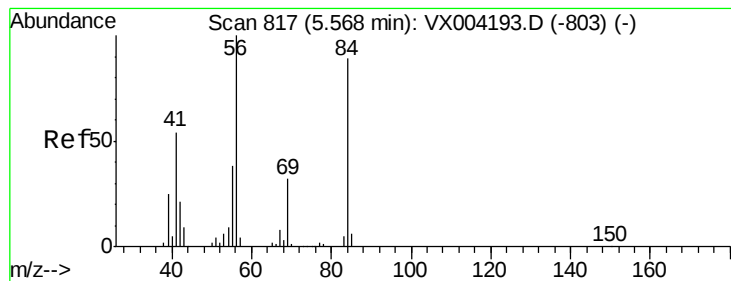
72 30.2 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#31

Cyclohexane

Concen: 0.96 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.09 min

Lab File: VX004286.D

Acq: 29 Aug 2018 12:17

Instrument :

MSVOA_X

ClientSampleId :

MW16-001-Y4S3

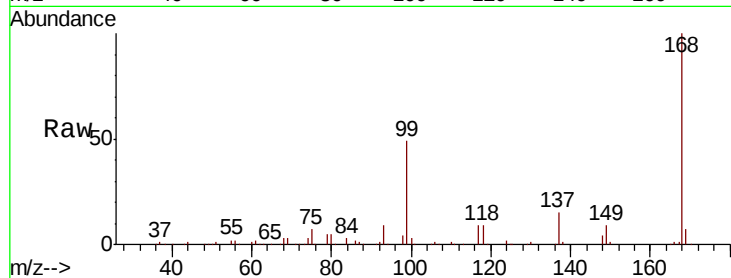
Tot Ion: 56 Resp: 4787

Ion Ratio Lower Upper

56 100

69 177.7 25.4 38.2#

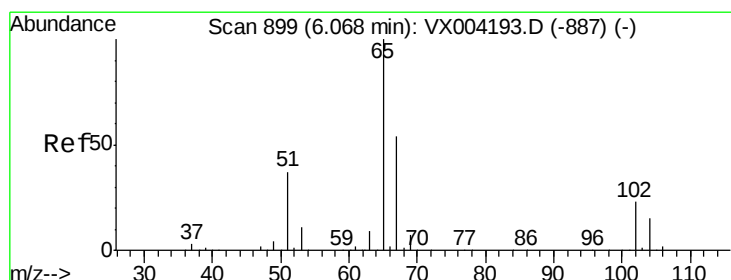
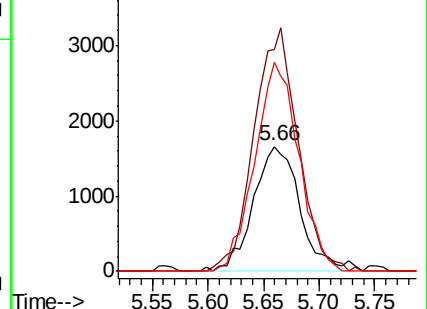
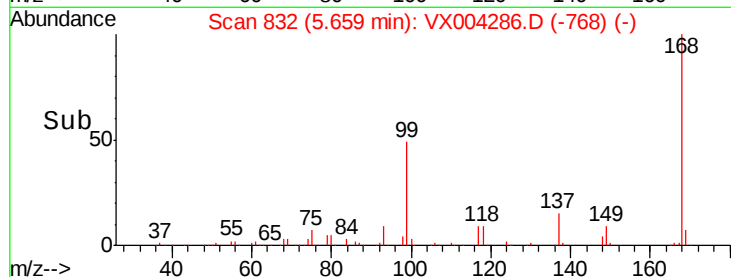
84 168.1 71.4 107.2#



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: 53.42 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004286.D

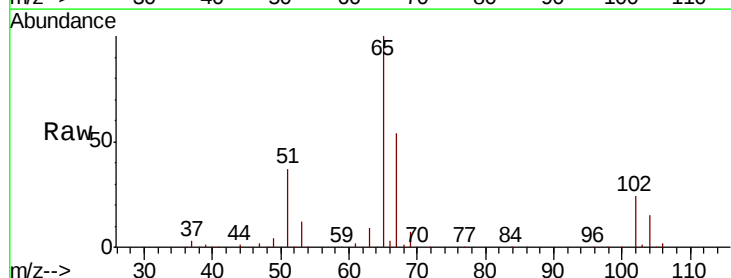
Acq: 29 Aug 2018 12:17

Tgt Ion: 65 Resp: 190366

Ion Ratio Lower Upper

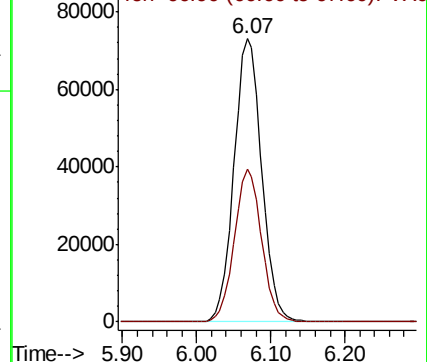
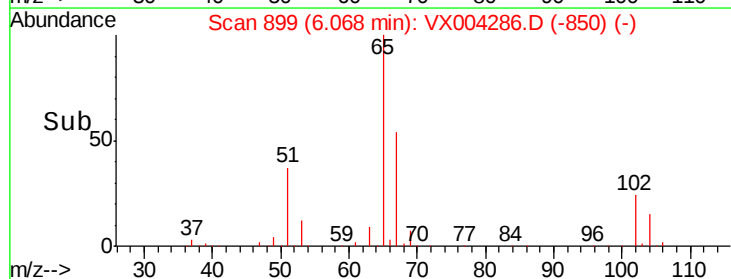
65 100

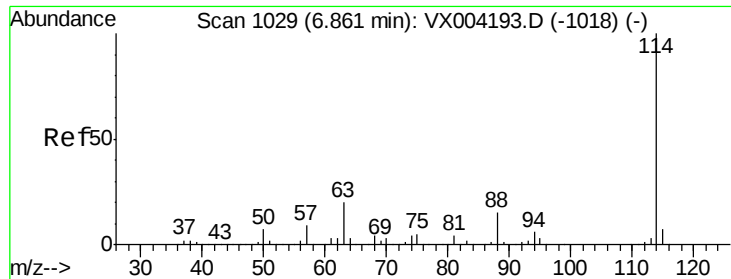
67 52.9 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

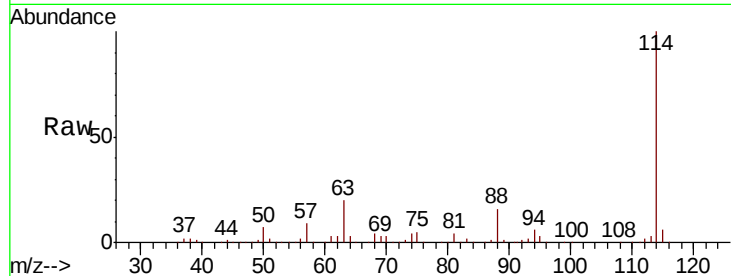




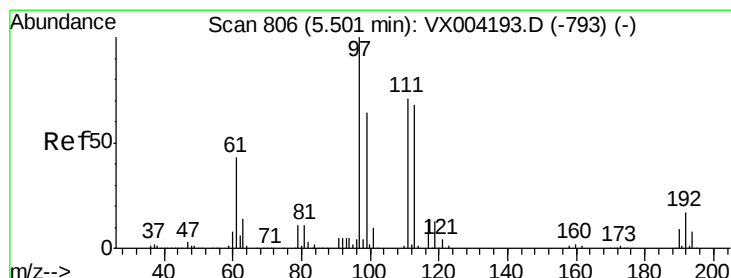
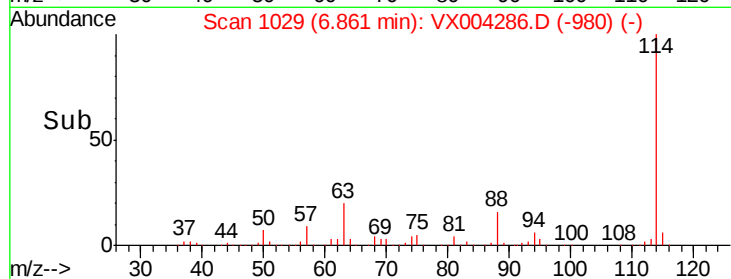
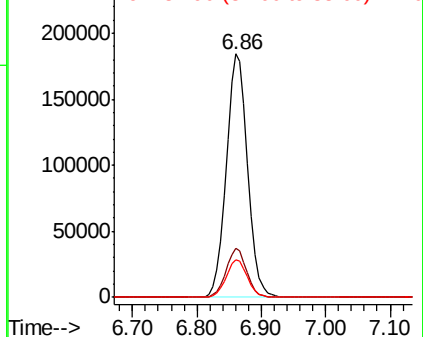
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. 0.00 min
 Lab File: VX004286.D
 Acq: 29 Aug 2018 12:17

Instrument :
 MSVOA_X
 ClientSampleId :
 MW16-001-Y4S3

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.0
88	15.7	0.0	30.4

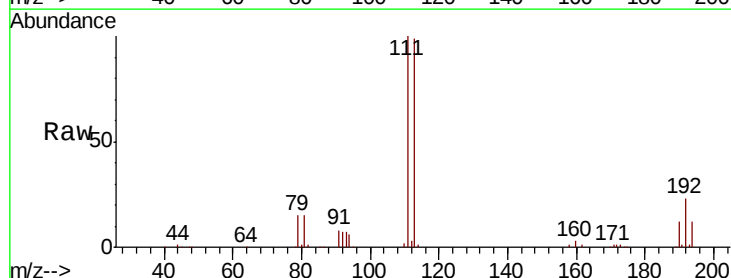


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

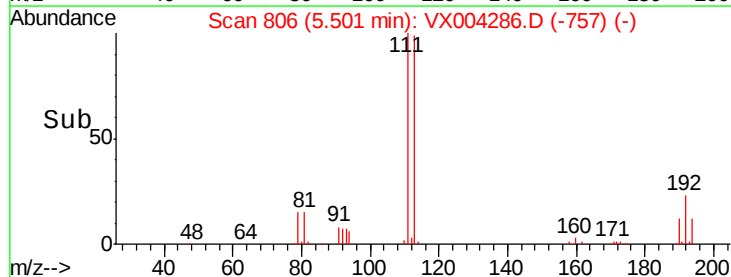
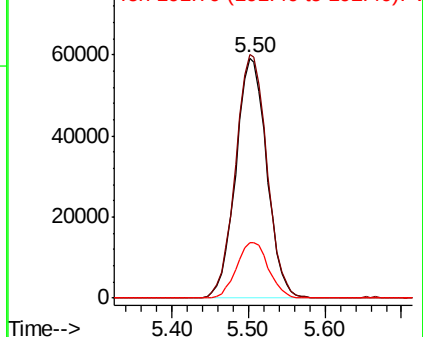


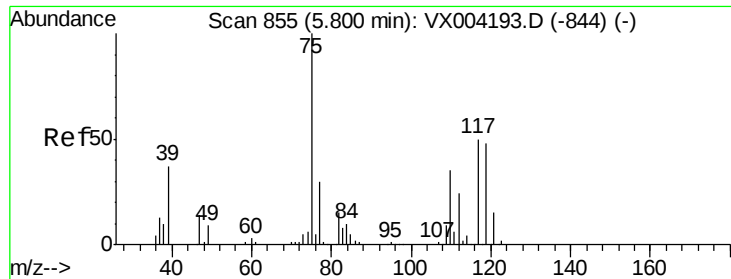
#35
 Dibromofluoromethane
 Concen: 52.13 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX004286.D
 Acq: 29 Aug 2018 12:17

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.4	123.6
192	23.8	19.4	29.2



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: 3.72 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX004286.D

Acq: 29 Aug 2018 12:17

Instrument :

MSVOA_X

ClientSampleId :

MW16-001-Y4S3

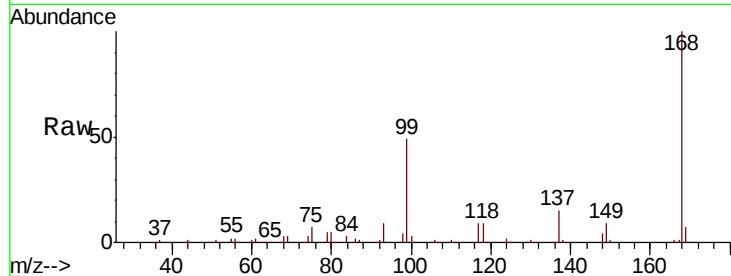
Tot Ion: 75 Resp: 17937

Ion Ratio Lower Upper

75 100

110 8.8 18.0 54.0#

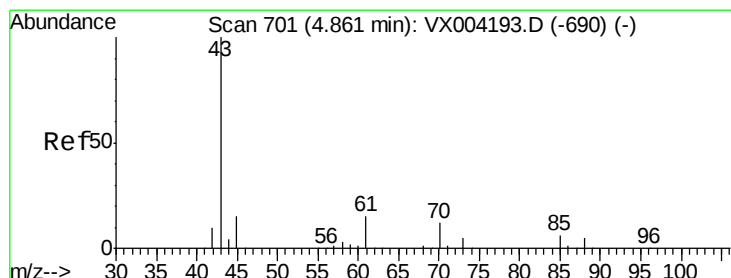
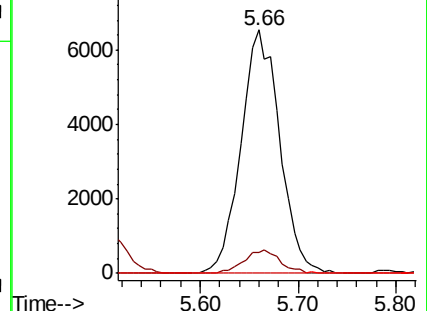
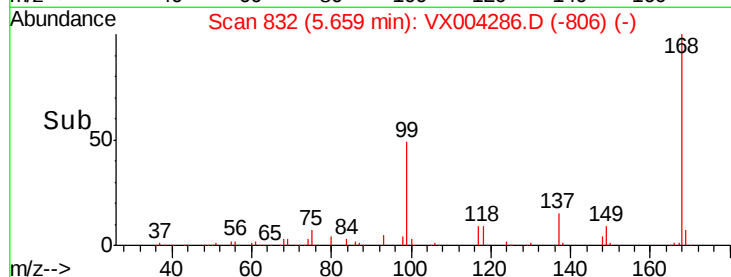
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 0.27 ug/l

RT: 4.87 min Scan# 702

Delta R.T. 0.01 min

Lab File: VX004286.D

Acq: 29 Aug 2018 12:17

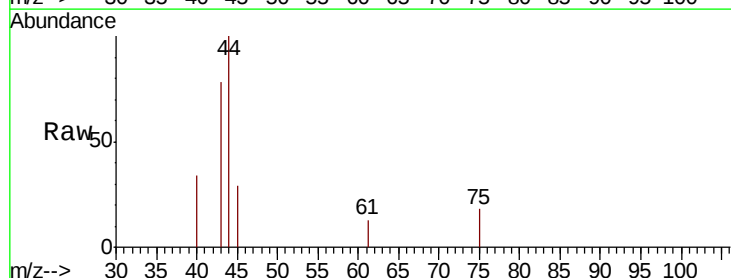
Tgt Ion: 43 Resp: 1290

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

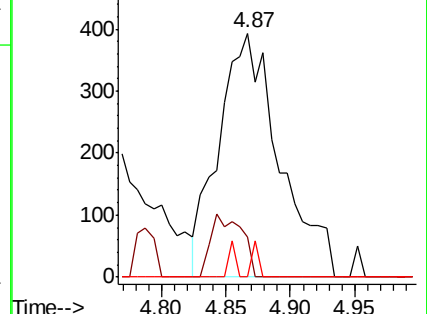
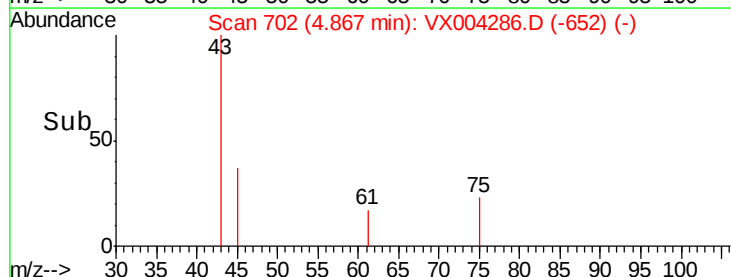
70 1.6 9.0 13.6#

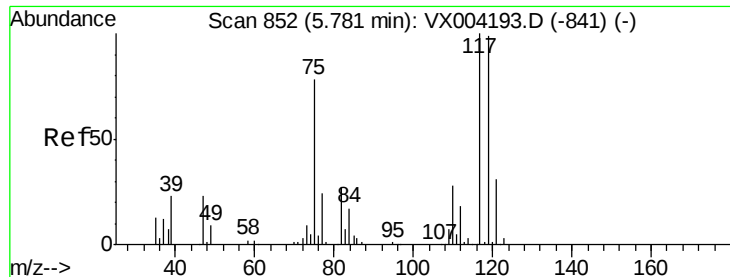


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.29 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004286.D

Acq: 29 Aug 2018 12:17

Instrument :

MSVOA_X

ClientSampleId :

MW16-001-Y4S3

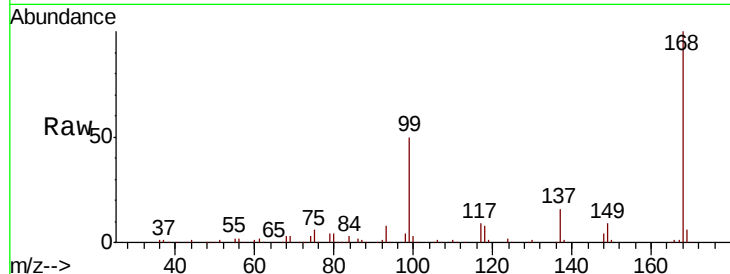
Tot Ion:117 Resp: 23986

Ion Ratio Lower Upper

117 100

119 7.5 78.8 118.2#

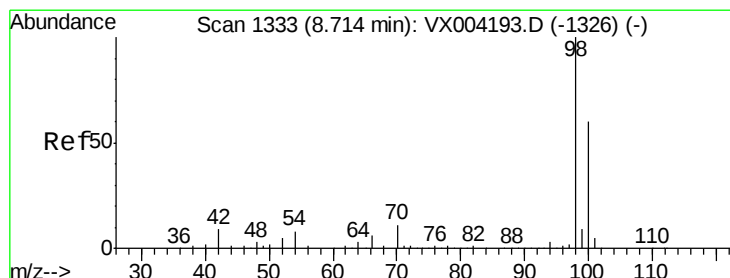
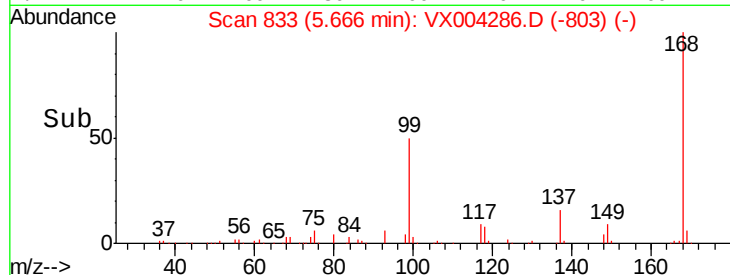
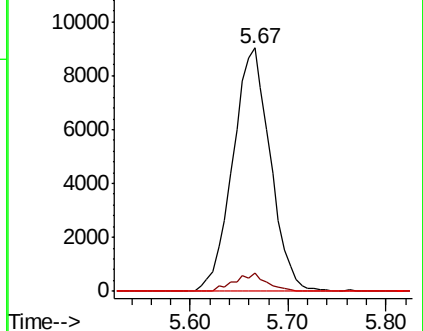
121 0.0 24.9 37.3#



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: 50.11 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VX004286.D

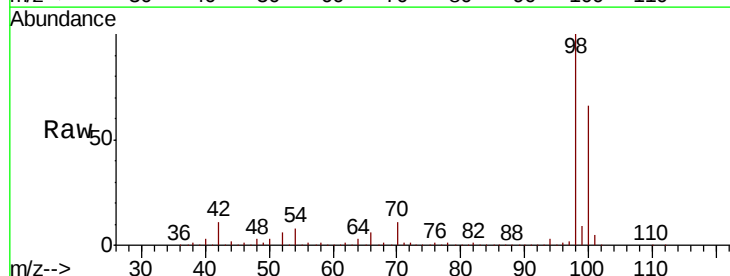
Acq: 29 Aug 2018 12:17

Tgt Ion: 98 Resp: 603147

Ion Ratio Lower Upper

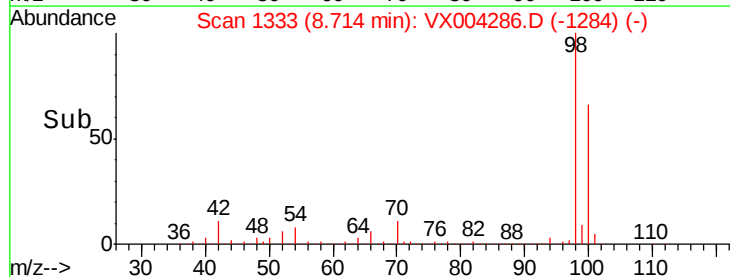
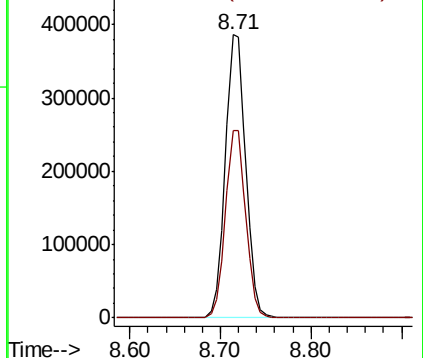
98 100

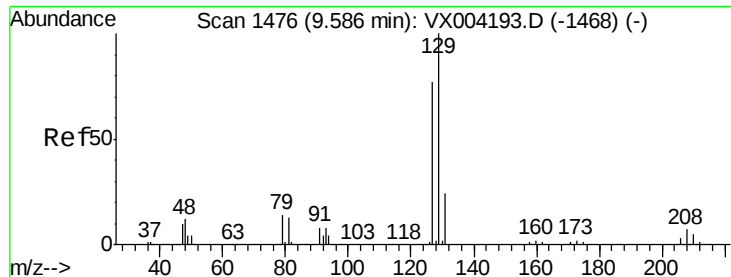
100 66.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

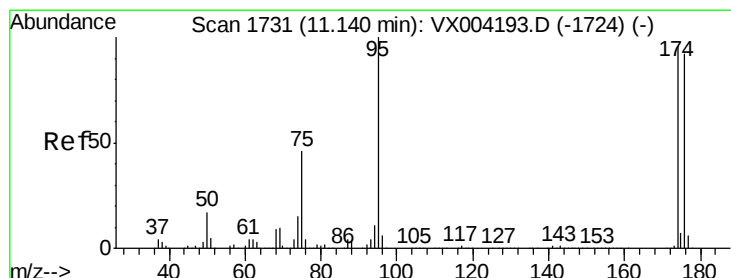
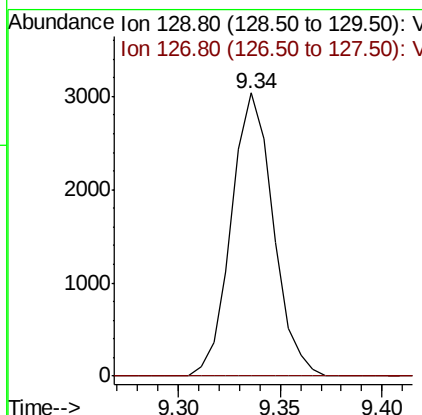
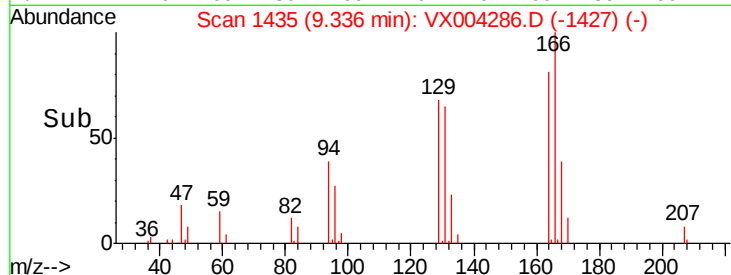
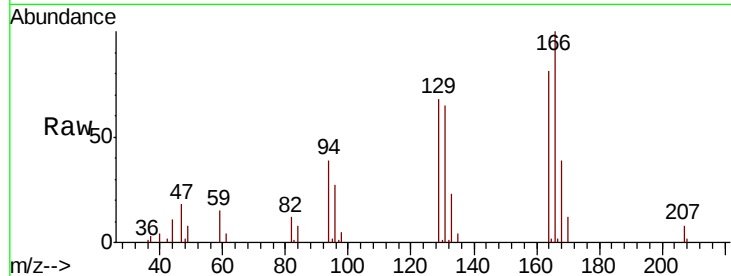




#60
 Dibromochloromethane
 Concen: 1.22 ug/l
 RT: 9.34 min Scan# 1435
 Delta R.T. -0.25 min
 Lab File: VX004286.D
 Acq: 29 Aug 2018 12:17

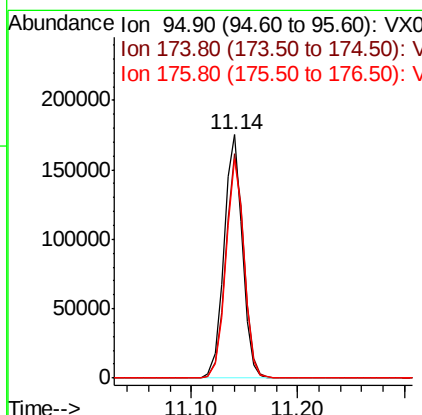
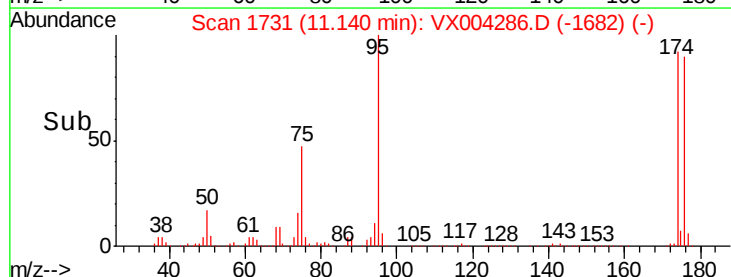
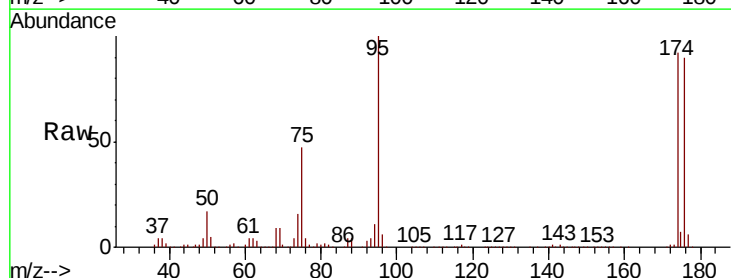
Instrument :
 MSVOA_X
 ClientSampleId :
 MW16-001-Y4S3

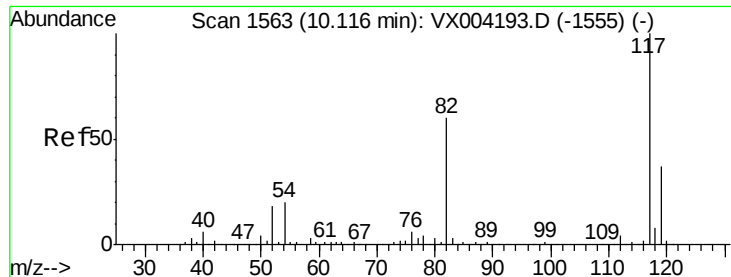
Tot Ion:129 Resp: 4332
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.5#



#62
 4-Bromofluorobenzene
 Concen: 47.03 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX004286.D
 Acq: 29 Aug 2018 12:17

Tgt Ion: 95 Resp: 211230
 Ion Ratio Lower Upper
 95 100
 174 92.7 0.0 185.2
 176 89.3 0.0 178.6

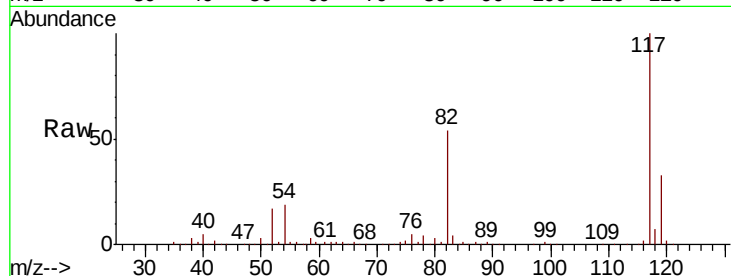




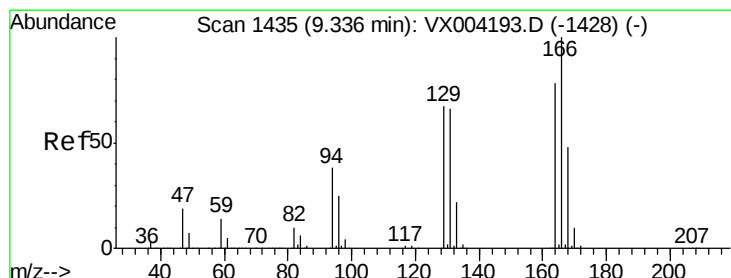
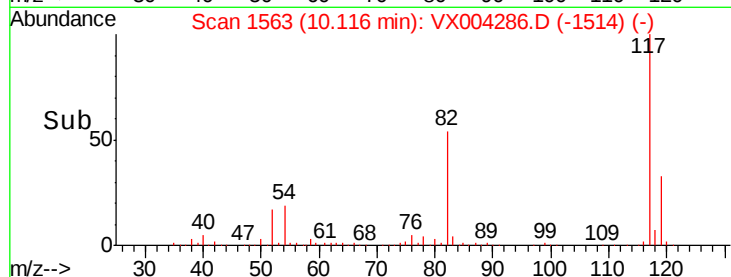
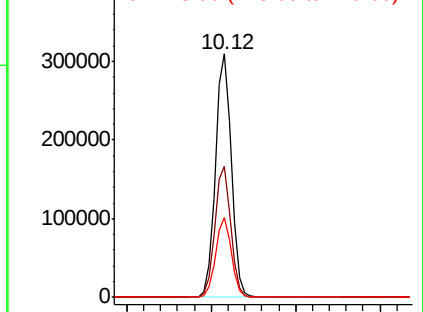
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004286.D
Acq: 29 Aug 2018 12:17

Instrument :
MSVOA_X
ClientSampleId :
MW16-001-Y4S3

Tot Ion:117 Resp: 407604
Ion Ratio Lower Upper
117 100
82 53.7 47.8 71.6
119 32.7 29.3 43.9

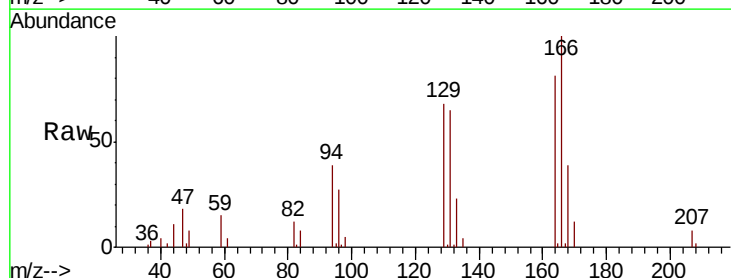


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

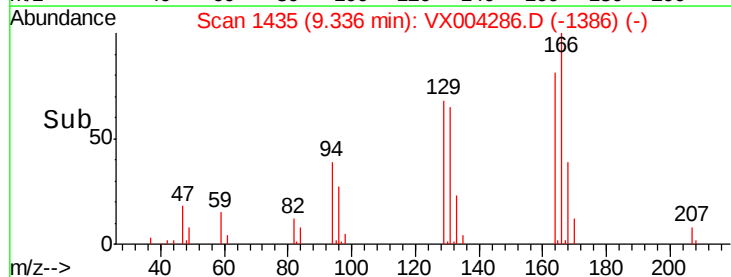
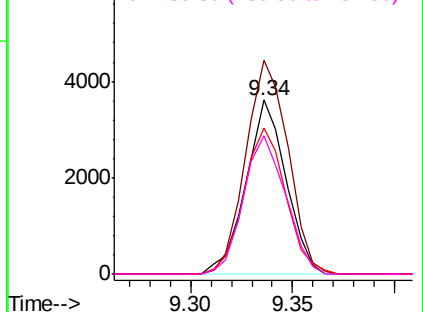


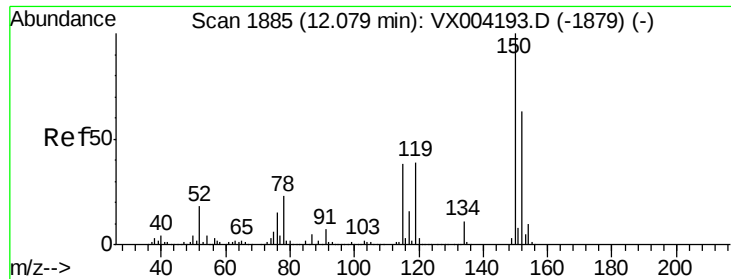
#64
Tetrachloroethene
Concen: 1.22 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. 0.00 min
Lab File: VX004286.D
Acq: 29 Aug 2018 12:17

Tgt Ion:164 Resp: 4920
Ion Ratio Lower Upper
164 100
166 122.9 102.8 154.2
129 84.0 69.4 104.0
131 79.3 67.9 101.9



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004286.D

Acq: 29 Aug 2018 12:17

Instrument :

MSVOA_X

ClientSampleId :

MW16-001-Y4S3

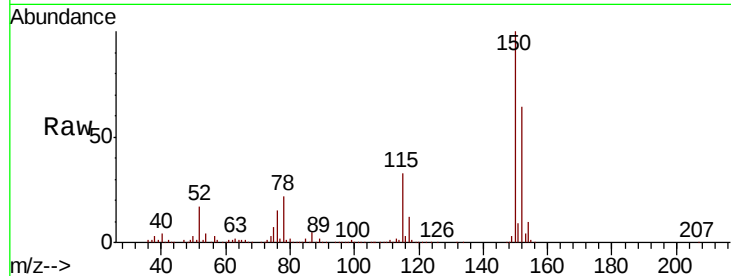
Tot Ion:152 Resp: 225832

Ion Ratio Lower Upper

152 100

115 53.3 39.0 117.0

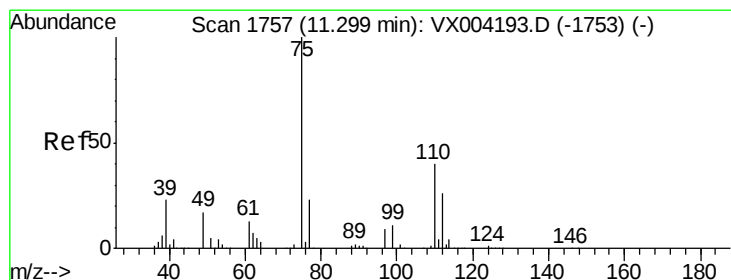
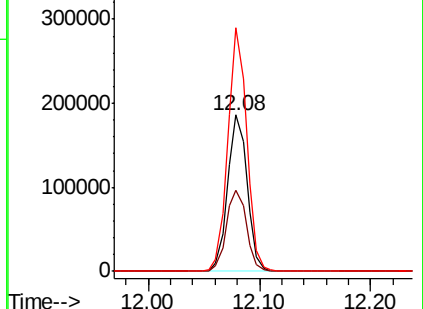
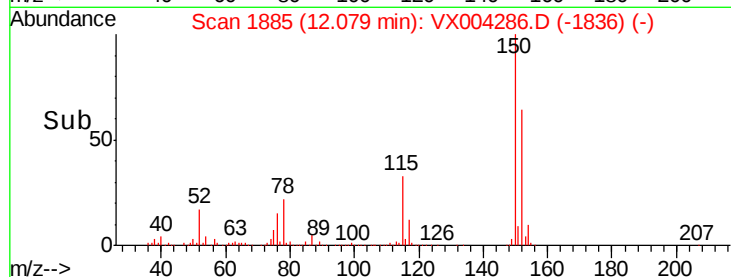
150 150.4 0.0 351.0



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: 21.86 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004286.D

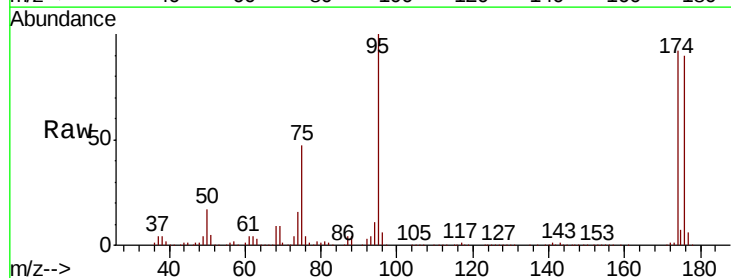
Acq: 29 Aug 2018 12:17

Tgt Ion: 75 Resp: 100401

Ion Ratio Lower Upper

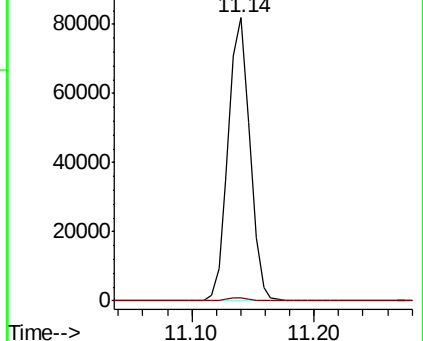
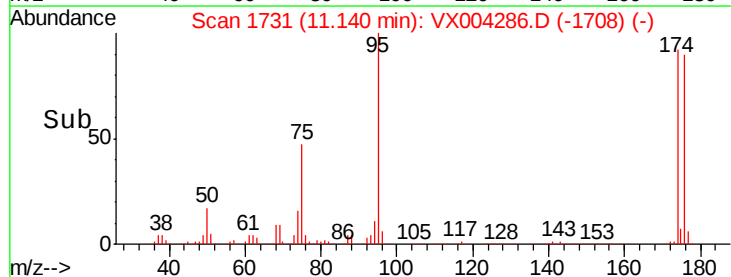
75 100

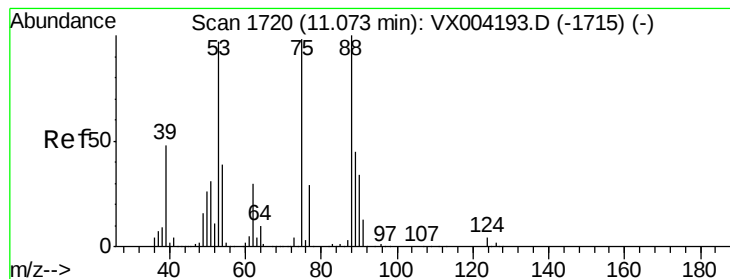
77 1.2 20.2 60.6#



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: 70.92 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004286.D

Acq: 29 Aug 2018 12:17

Instrument :

MSVOA_X

ClientSampleId :

MW16-001-Y4S3

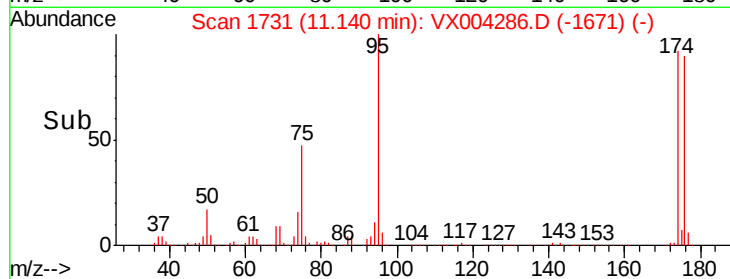
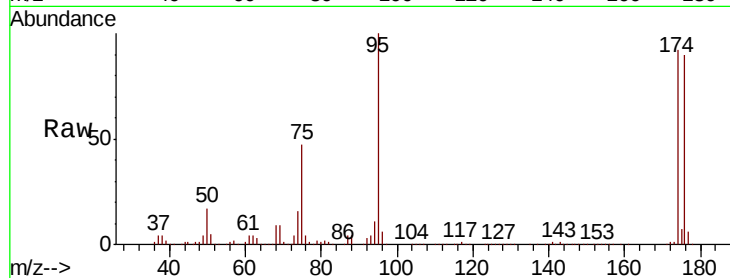
Tot Ion: 75 Resp: 100401

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



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

