

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061518\
 Data File : VX002631.D
 Acq On : 16 Jun 2018 07:38
 Operator : JC/MD
 Sample : J3479-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z5TB07-180611

Quant Time: Jun 18 06:07:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	217898	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	316597	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	292868	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	158189	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	150509	45.45	ug/l	0.00
Spiked Amount			Recovery	=	90.90%	
35) Dibromofluoromethane	5.51	113	115014	45.52	ug/l	0.00
Spiked Amount			Recovery	=	91.04%	
50) Toluene-d8	8.72	98	454841	47.41	ug/l	0.00
Spiked Amount			Recovery	=	94.82%	
62) 4-Bromofluorobenzene	11.14	95	152515	41.95	ug/l	0.00
Spiked Amount			Recovery	=	83.90%	

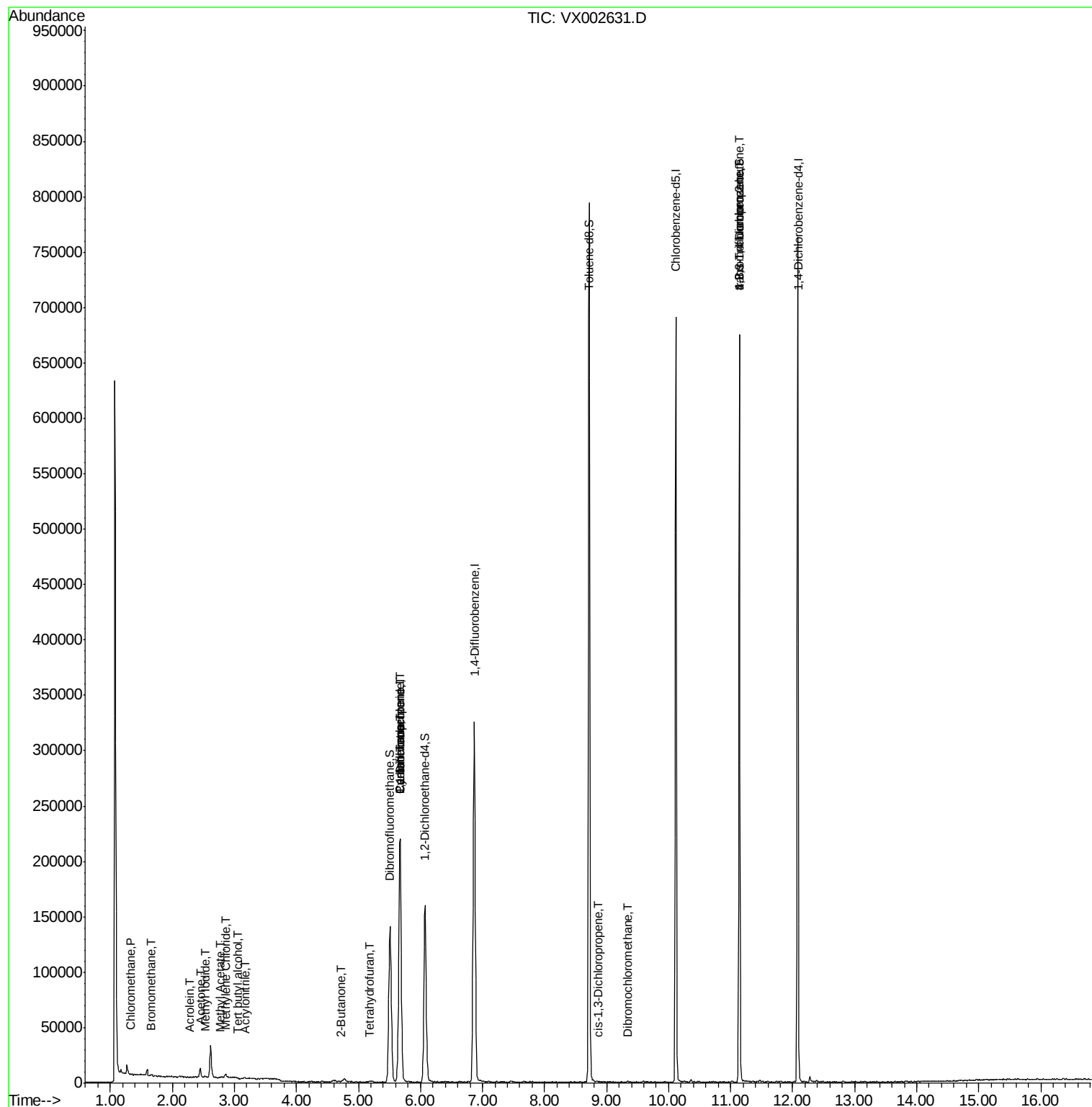
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	567	0.21	ug/l	93
5) Bromomethane	1.67	94	1115	0.65	ug/l	94
10) Methyl Iodide	2.53	142	1570	5.58	ug/l	96
11) Tert butyl alcohol	3.06	59	141	0.21	ug/l #	45
13) Acrolein	2.29	56	68	7.07	ug/l #	1
15) Acrylonitrile	3.17	53	358	0.24	ug/l #	64
16) Acetone	2.45	43	8506	5.82	ug/l	96
18) Methyl Acetate	2.78	43	910	0.23	ug/l	91
20) Methylene Chloride	2.87	84	1554	0.52	ug/l #	78
25) 2-Butanone	4.71	43	457	0.24	ug/l #	52
29) Tetrahydrofuran	5.18	42	825	0.66	ug/l #	49
31) Cyclohexane	5.67	56	4655	1.19	ug/l #	18
36) 1,1-Dichloropropene	5.67	75	15509	4.61	ug/l #	41
38) Carbon Tetrachloride	5.67	117	20469	6.11	ug/l #	15
54) cis-1,3-Dichloropropene	8.87	75	22	3.22	ug/l #	32
60) Dibromochloromethane	9.33	129	68	3.78	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	82768	27.73	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	82768	85.48	ug/l #	7

(#) = 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# 834

Delta R.T. -0.00 min

Lab File: VX002631.D

Acq: 16 Jun 2018 07:38

Instrument :

MSVOA_X

ClientSampleId :

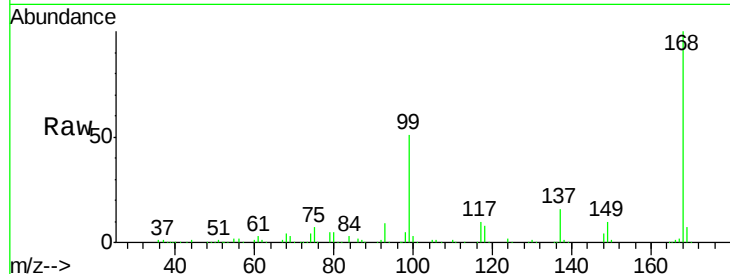
Z5TB07-180611

Tot Ion:168 Resp: 217898

Ion Ratio Lower Upper

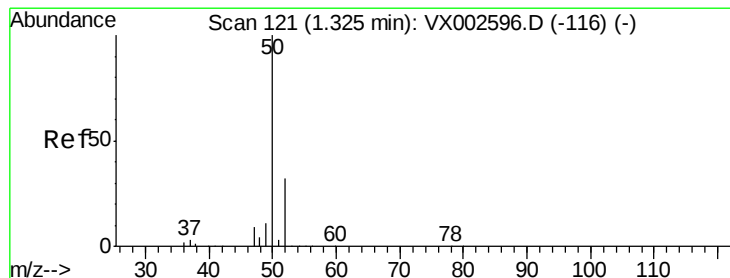
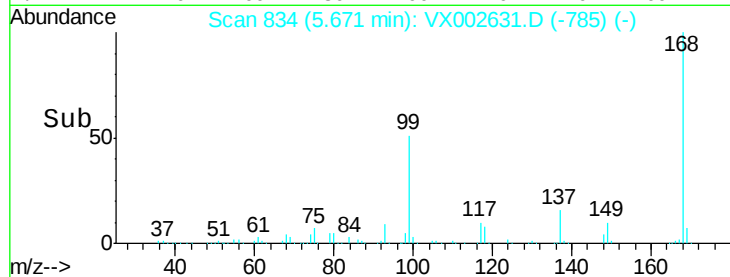
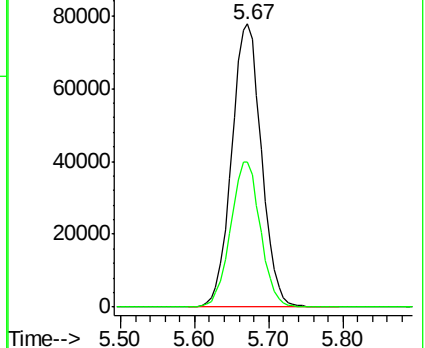
168 100

99 51.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002631.D

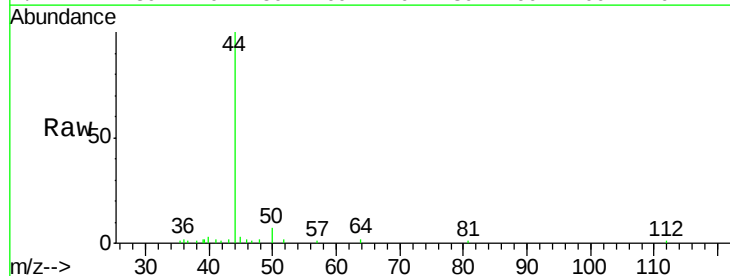
Acq: 16 Jun 2018 07:38

Tgt Ion: 50 Resp: 567

Ion Ratio Lower Upper

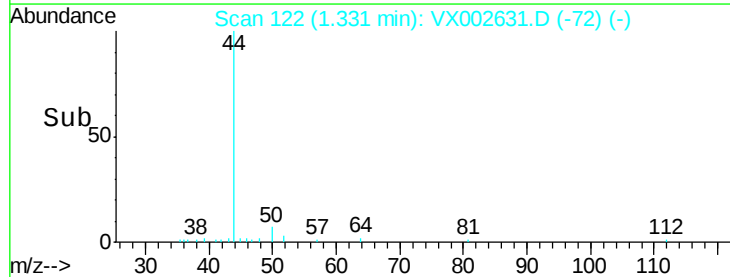
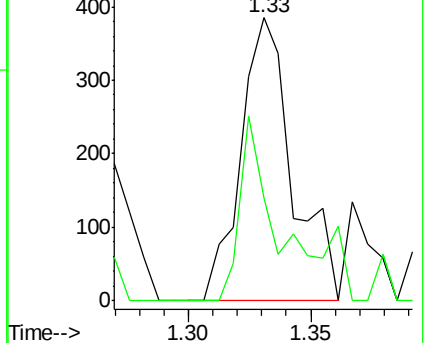
50 100

52 36.1 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.65 ug/l

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002631.D

Acq: 16 Jun 2018 07:38

Instrument :

MSVOA_X

ClientSampleId :

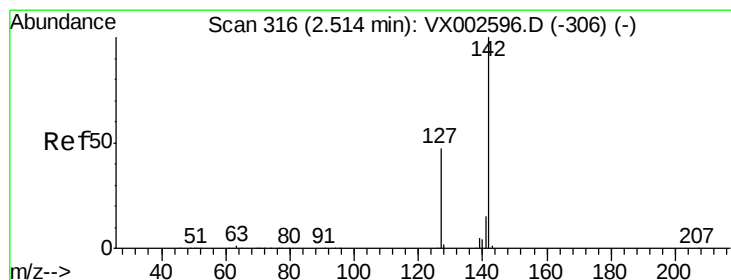
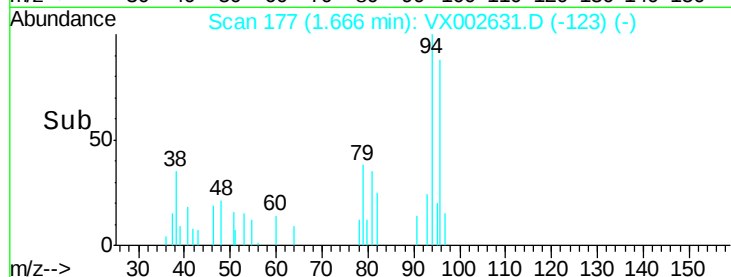
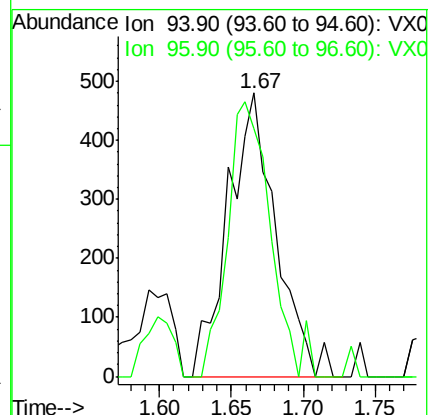
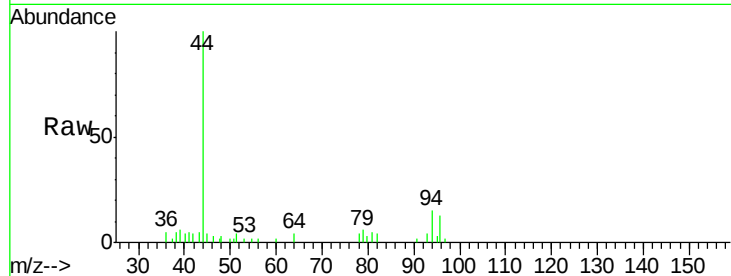
Z5TB07-180611

Tot Ion: 94 Resp: 1115

Ion Ratio Lower Upper

94 100

96 87.5 74.9 112.3



#10

Methyl Iodide

Concen: 5.58 ug/l

RT: 2.53 min Scan# 319

Delta R.T. 0.02 min

Lab File: VX002631.D

Acq: 16 Jun 2018 07:38

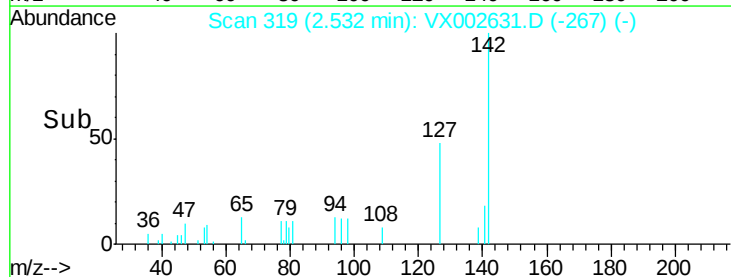
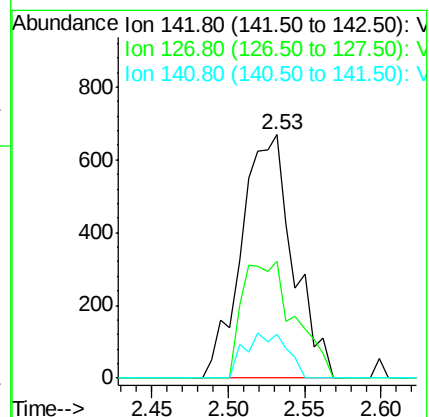
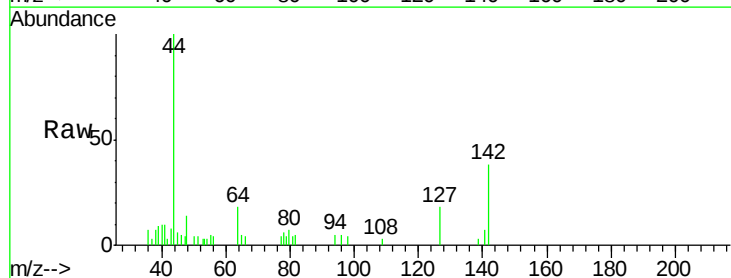
Tgt Ion:142 Resp: 1570

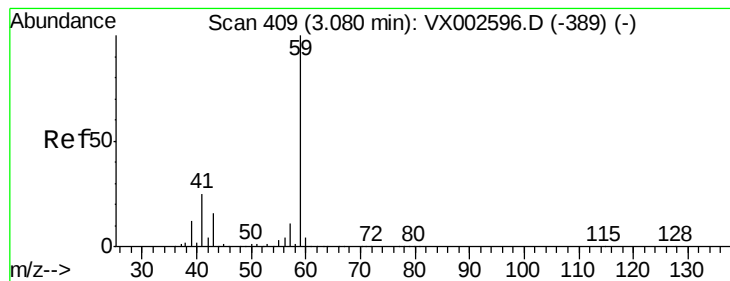
Ion Ratio Lower Upper

142 100

127 48.4 36.6 55.0

141 15.1 11.3 16.9



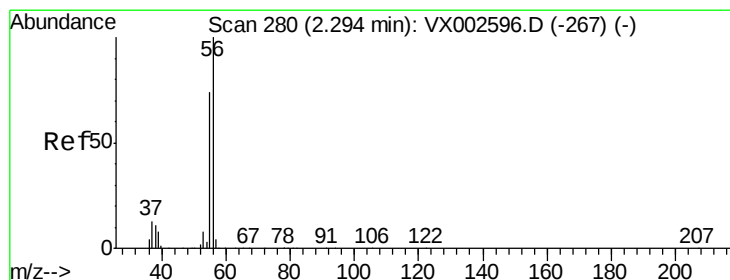
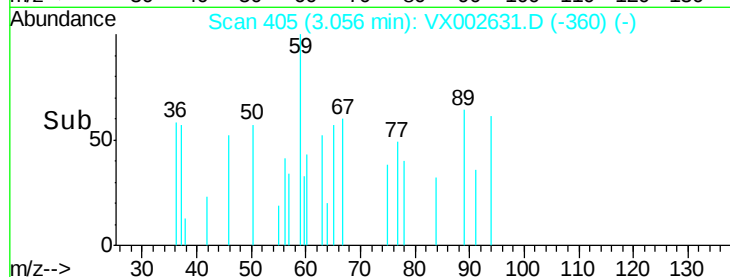
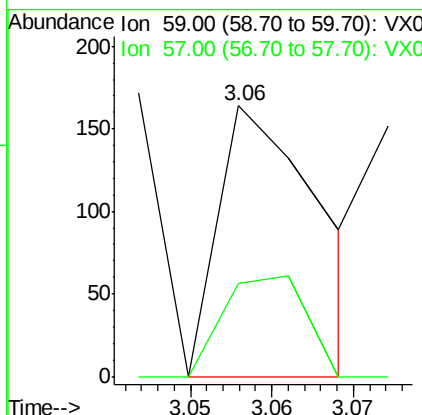
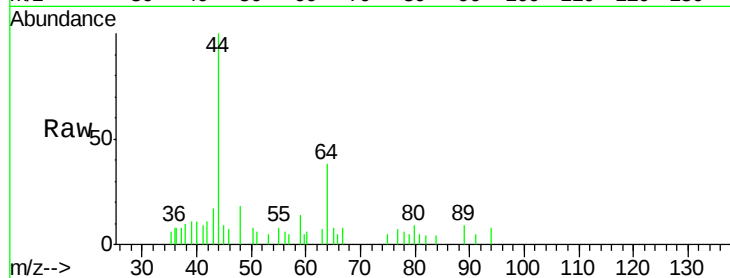


#11

Tert butyl alcohol
Concen: 0.21 ug/l
RT: 3.06 min Scan# 405
Delta R.T. -0.02 min
Lab File: VX002631.D
Acq: 16 Jun 2018 07:38

Instrument :
MSVOA_X
ClientSampleId :
Z5TB07-180611

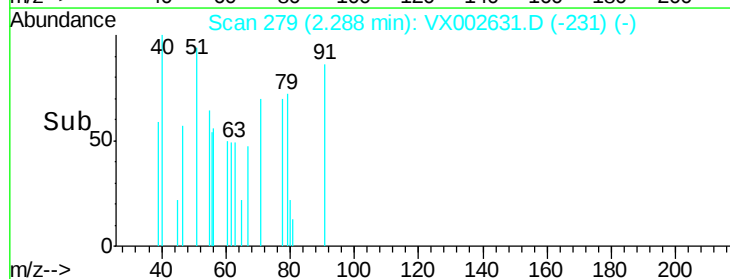
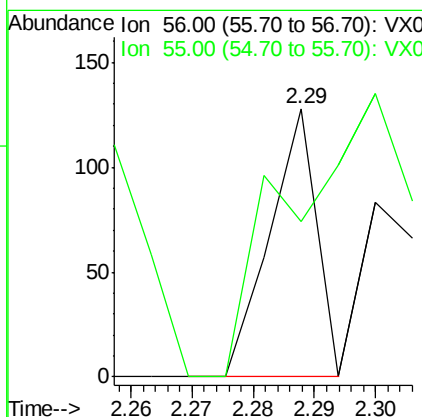
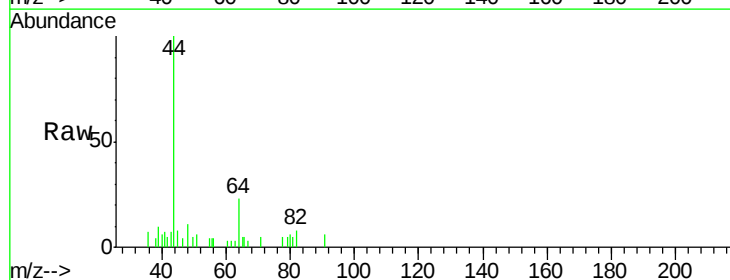
Tot Ion: 59 Resp: 141
Ion Ratio Lower Upper
59 100
57 30.5 8.2 12.2#

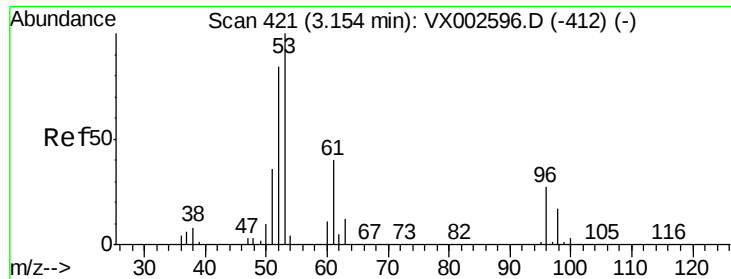


#13

Acrolein
Concen: 7.07 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002631.D
Acq: 16 Jun 2018 07:38

Tgt Ion: 56 Resp: 68
Ion Ratio Lower Upper
56 100
55 304.4 57.0 85.4#





#15

Acrylonitrile

Concen: 0.24 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX002631.D

Acq: 16 Jun 2018 07:38

Instrument :

MSVOA_X

ClientSampleID :

Z5TB07-180611

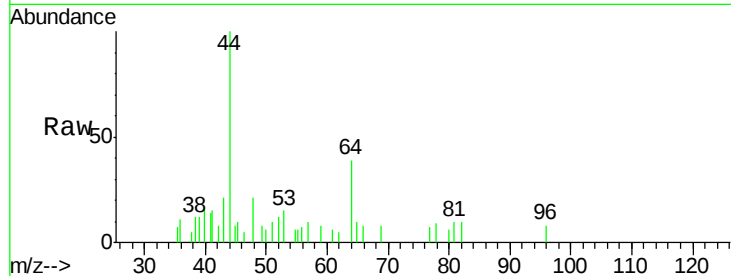
Tot Ion: 53 Resp: 358

Ion Ratio Lower Upper

53 100

52 94.7 66.7 100.1

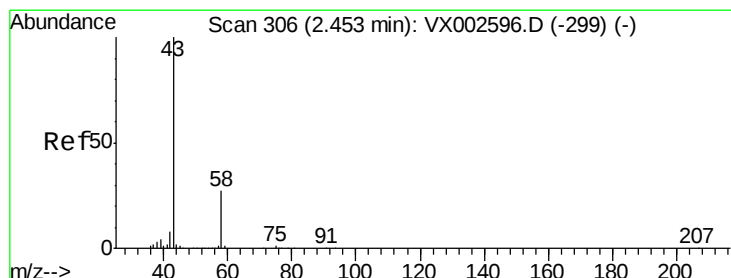
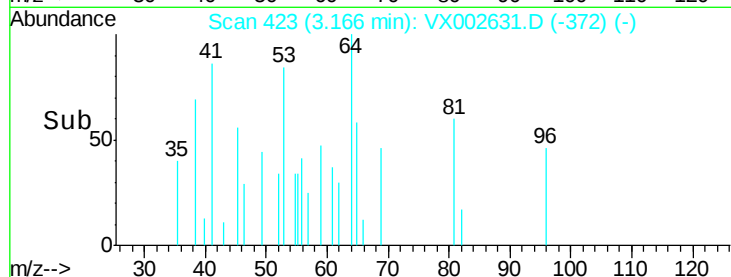
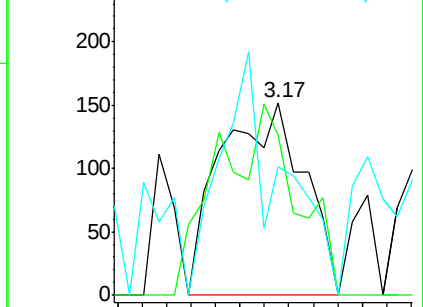
51 91.1 29.9 44.9#



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: 5.82 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002631.D

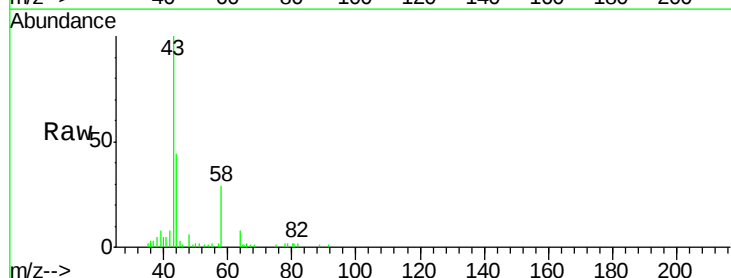
Acq: 16 Jun 2018 07:38

Tgt Ion: 43 Resp: 8506

Ion Ratio Lower Upper

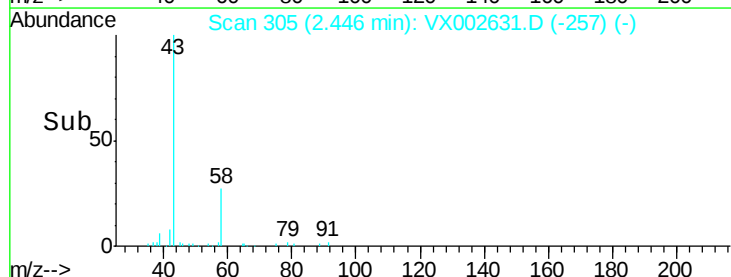
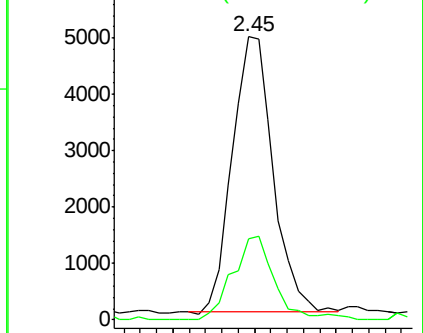
43 100

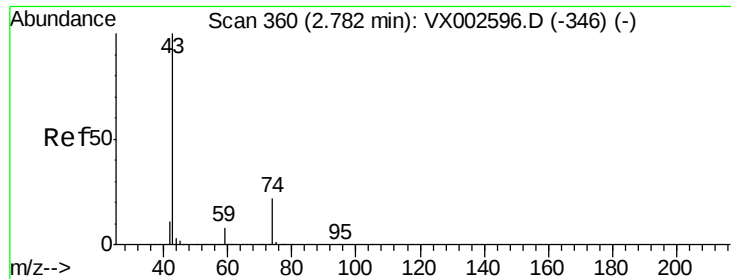
58 29.4 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

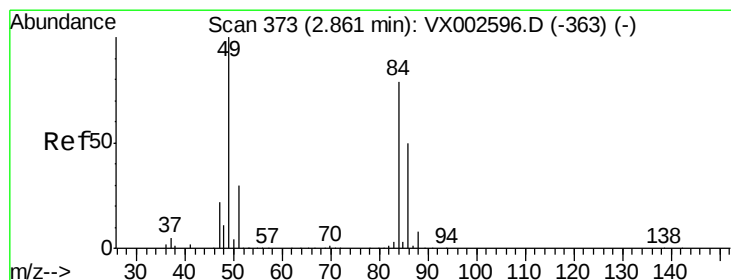
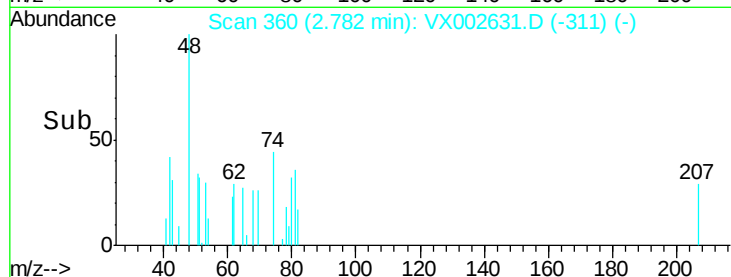
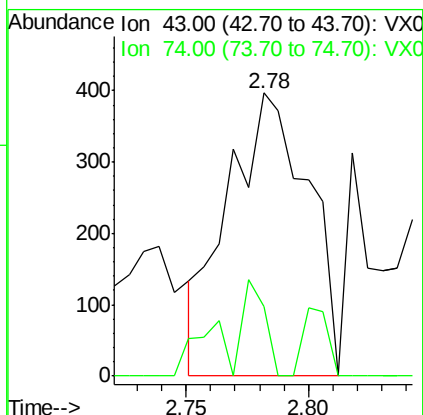
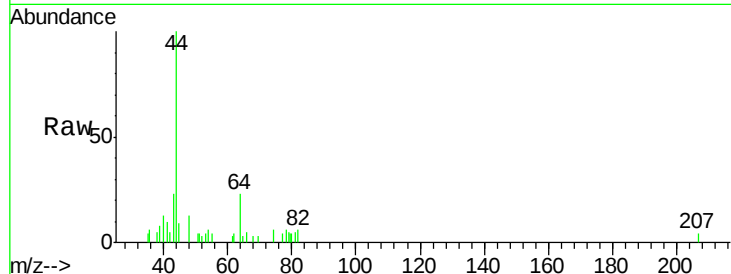




#18
Methyl Acetate
Concen: 0.23 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002631.D
Acq: 16 Jun 2018 07:38

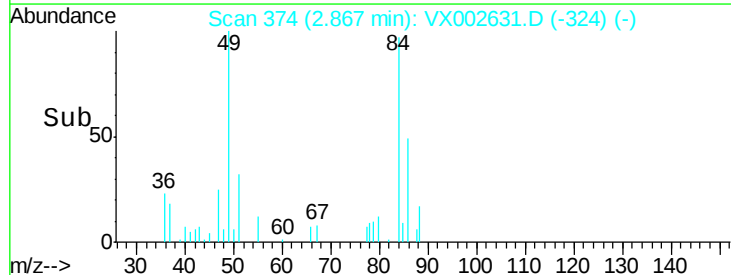
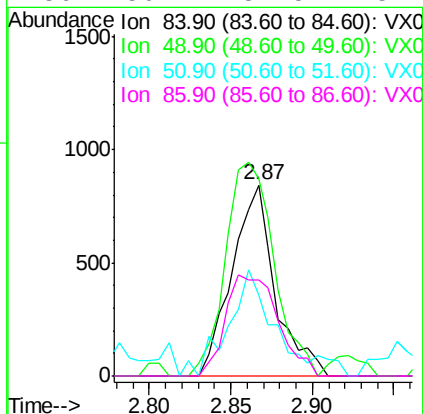
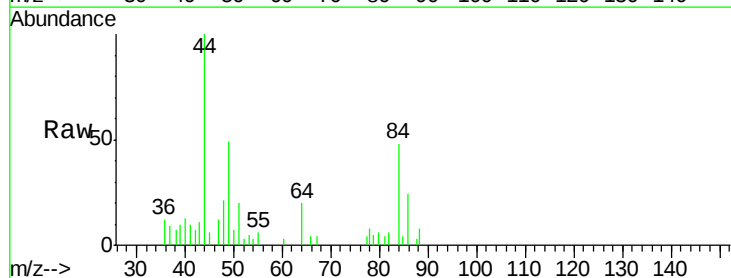
Instrument :
MSVOA_X
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Z5TB07-180611

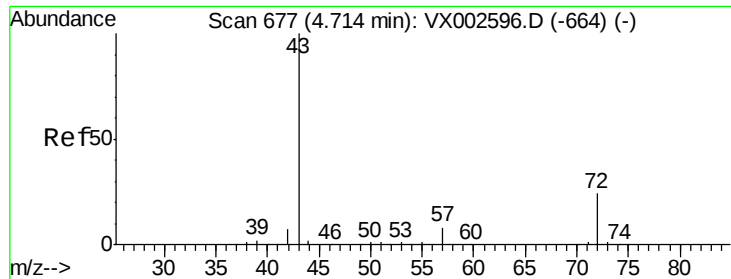
Tot Ion: 43 Resp: 910
Ion Ratio Lower Upper
43 100
74 16.8 16.7 25.1



#20
Methylene Chloride
Concen: 0.52 ug/l
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002631.D
Acq: 16 Jun 2018 07:38

Tgt Ion: 84 Resp: 1554
Ion Ratio Lower Upper
84 100
49 103.2 107.8 161.6#
51 34.2 32.8 49.2
86 50.2 52.5 78.7#

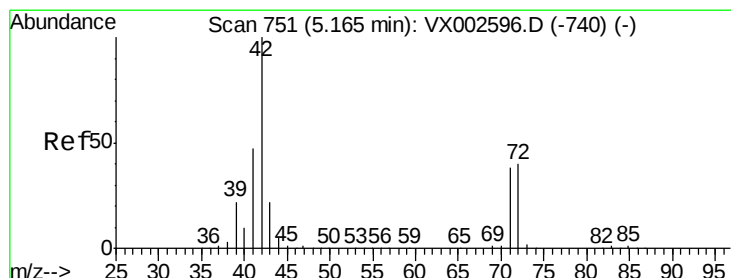
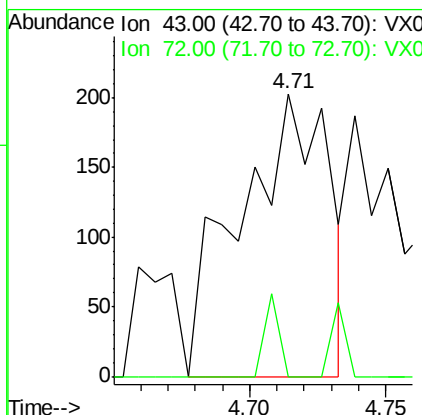
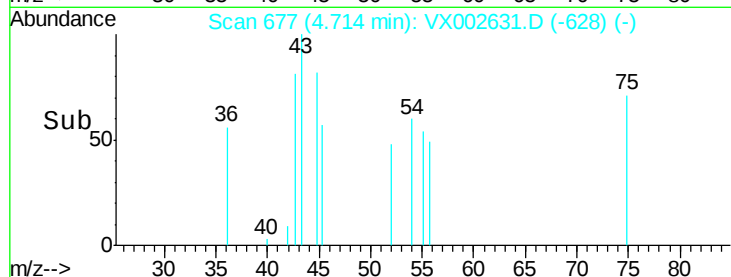
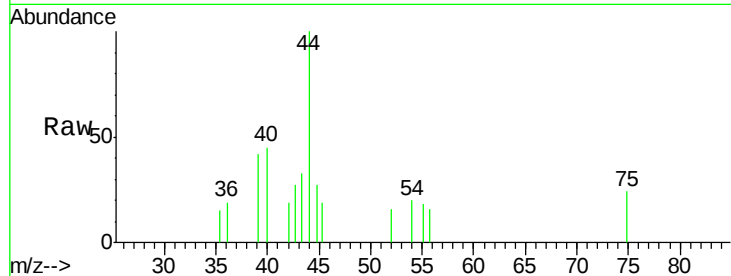




#25
2-Butanone
Concen: 0.24 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.00 min
Lab File: VX002631.D
Acq: 16 Jun 2018 07:38

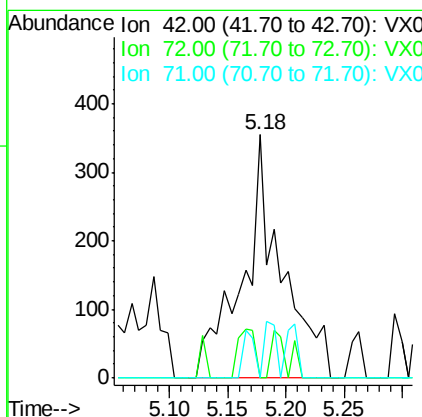
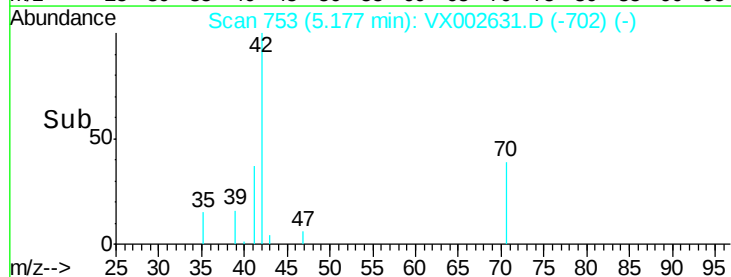
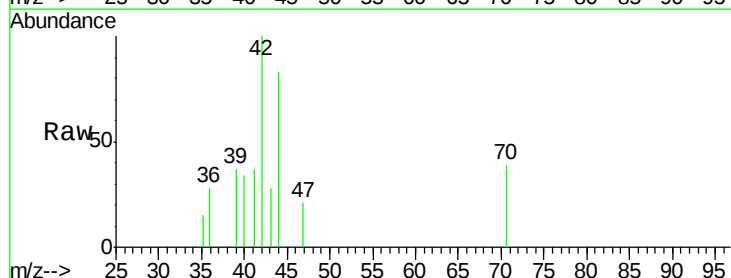
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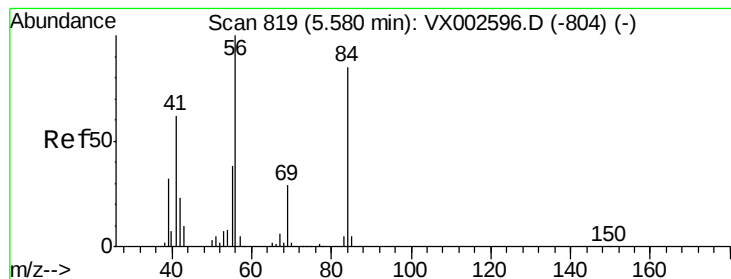
Tot Ion: 43 Resp: 457
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#



#29
Tetrahydrofuran
Concen: 0.66 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002631.D
Acq: 16 Jun 2018 07:38

Tgt Ion: 42 Resp: 825
Ion Ratio Lower Upper
42 100
72 8.1 32.0 48.0#
71 7.0 30.1 45.1#





#31

Cyclohexane

Concen: 1.19 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002631.D

Acq: 16 Jun 2018 07:38

Instrument :

MSVOA_X

ClientSampleId :

Z5TB07-180611

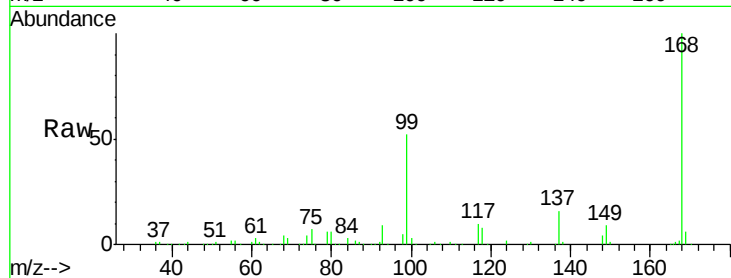
Tot Ion: 56 Resp: 4655

Ion Ratio Lower Upper

56 100

69 135.3 23.7 35.5#

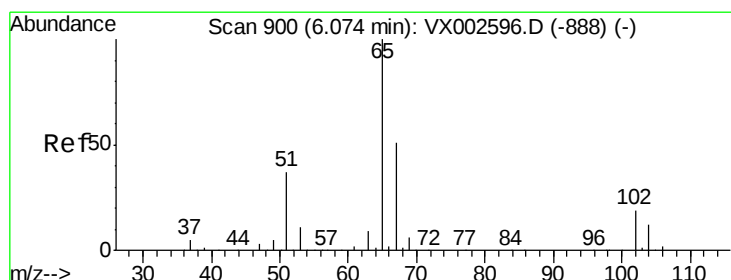
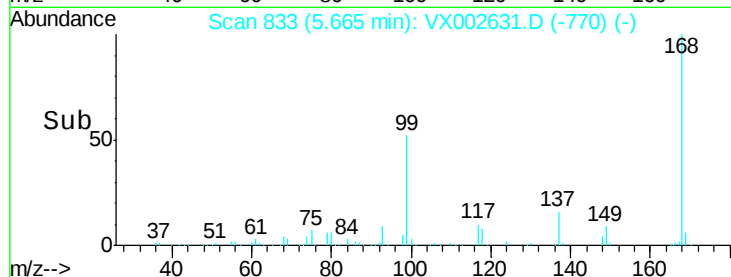
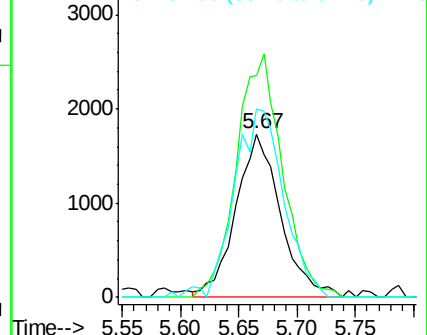
84 115.1 64.1 96.1#



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: 45.45 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002631.D

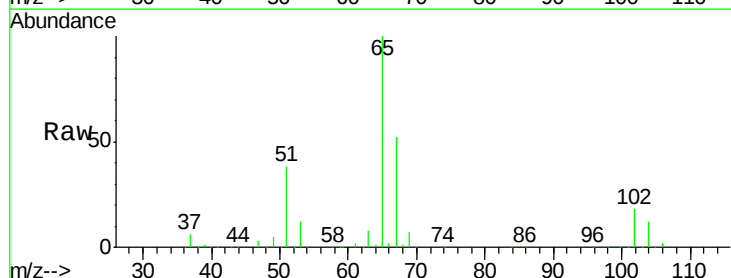
Acq: 16 Jun 2018 07:38

Tgt Ion: 65 Resp: 150509

Ion Ratio Lower Upper

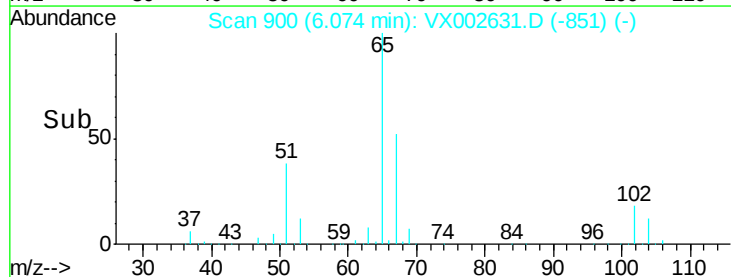
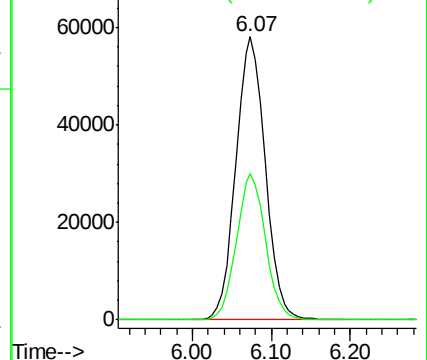
65 100

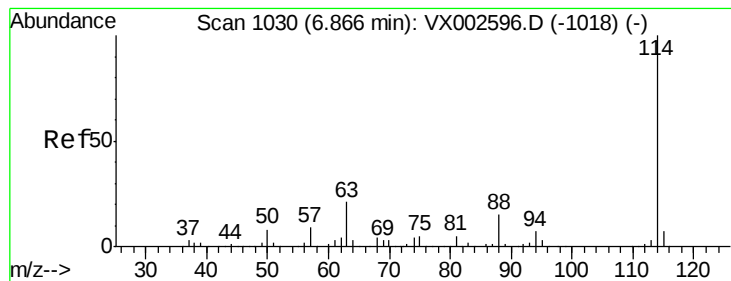
67 51.2 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002631.D

Acq: 16 Jun 2018 07:38

Instrument :

MSVOA_X

ClientSampleId :

Z5TB07-180611

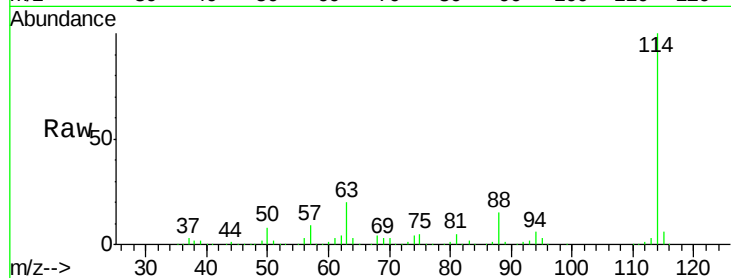
Tot Ion:114 Resp: 316597

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.4

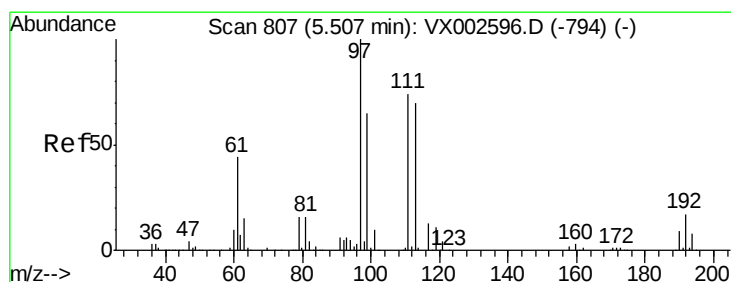
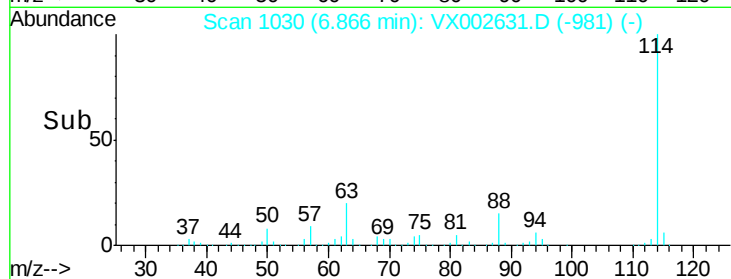
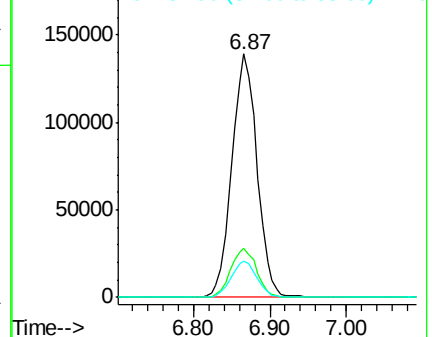
88 14.8 0.0 30.0



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: 45.52 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002631.D

Acq: 16 Jun 2018 07:38

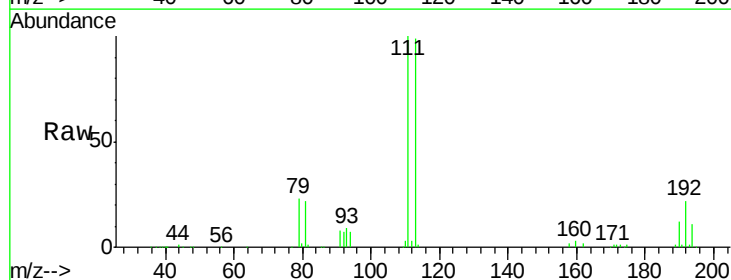
Tgt Ion:113 Resp: 115014

Ion Ratio Lower Upper

113 100

111 101.5 81.4 122.0

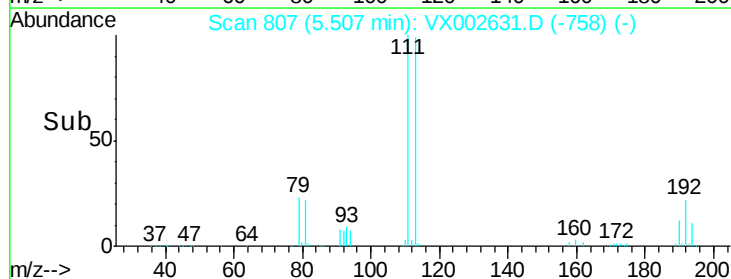
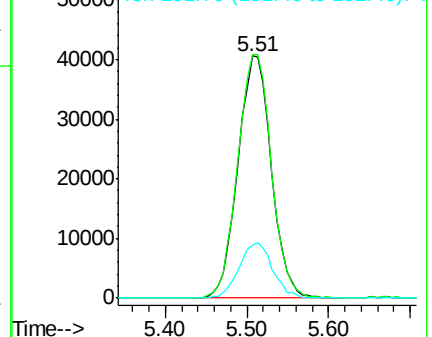
192 22.9 19.1 28.7

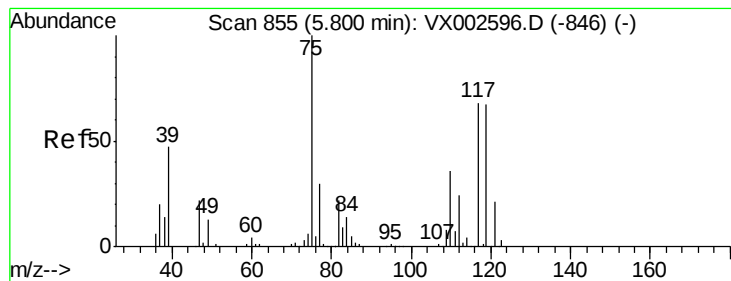


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.61 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002631.D

Acq: 16 Jun 2018 07:38

Instrument :

MSVOA_X

ClientSampleId :

Z5TB07-180611

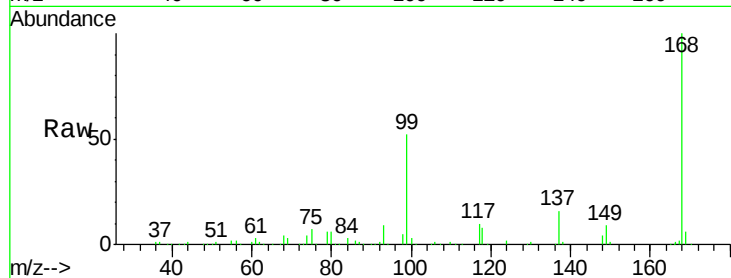
Tot Ion: 75 Resp: 15509

Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.4#

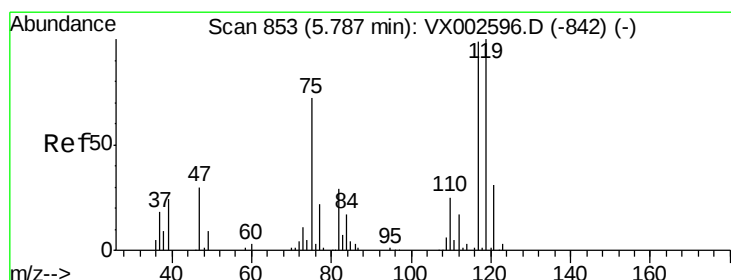
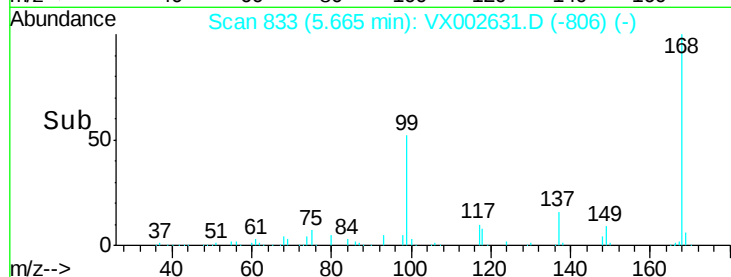
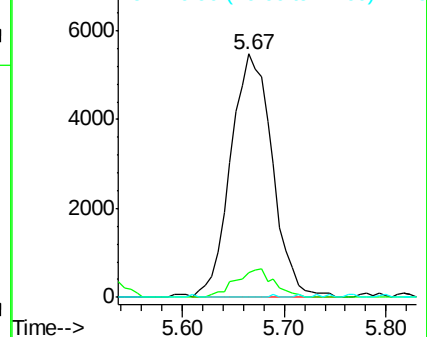
77 0.0 24.3 36.5#



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: 6.11 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002631.D

Acq: 16 Jun 2018 07:38

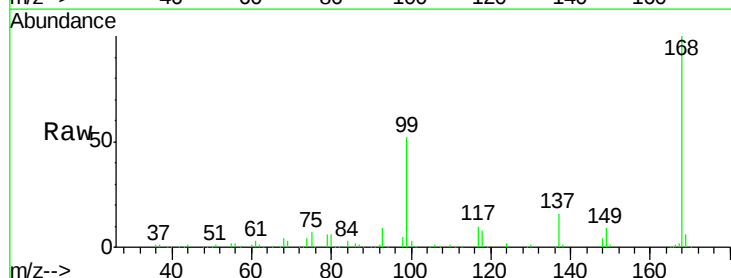
Tgt Ion: 117 Resp: 20469

Ion Ratio Lower Upper

117 100

119 4.6 77.4 116.0#

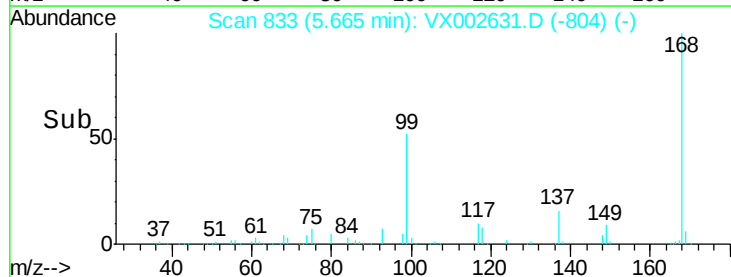
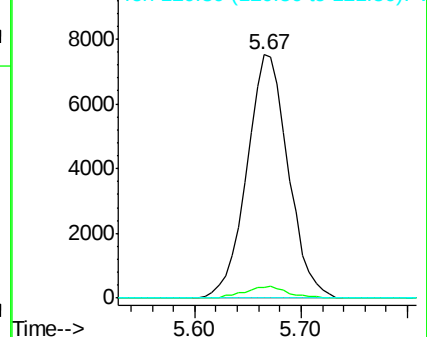
121 0.0 24.4 36.6#

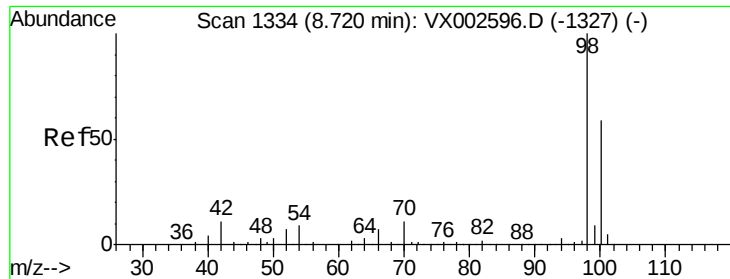


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 47.41 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002631.D

Acq: 16 Jun 2018 07:38

Instrument :

MSVOA_X

ClientSampleId :

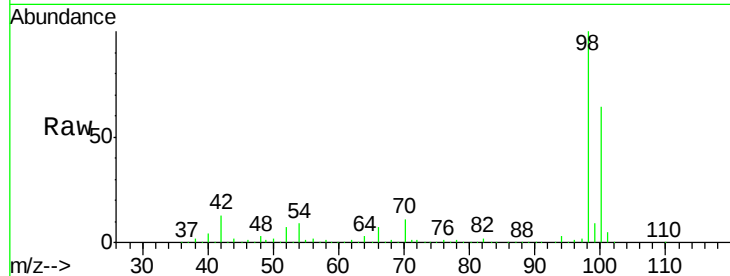
Z5TB07-180611

Tot Ion: 98 Resp: 454841

Ion Ratio Lower Upper

98 100

100 62.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

300000

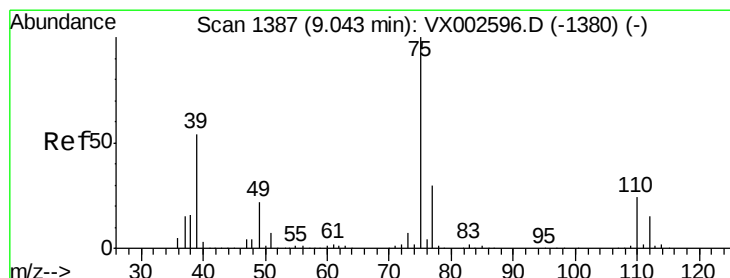
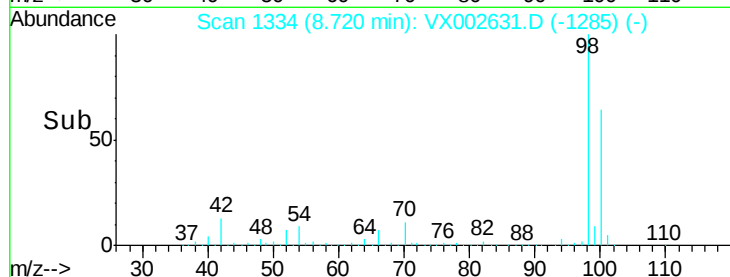
200000

100000

0

8.60 8.70 8.80 8.90

Time-->



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 8.87 min Scan# 1358

Delta R.T. -0.18 min

Lab File: VX002631.D

Acq: 16 Jun 2018 07:38

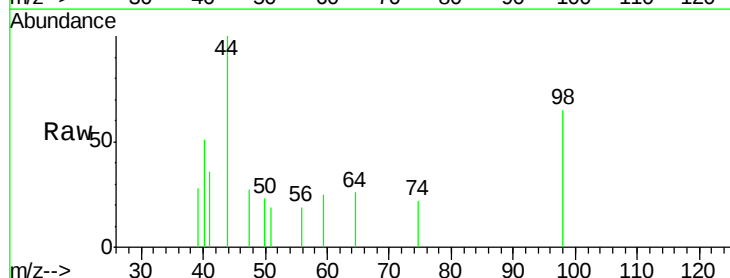
Tgt Ion: 75 Resp: 22

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 0.0 42.4 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

200

150

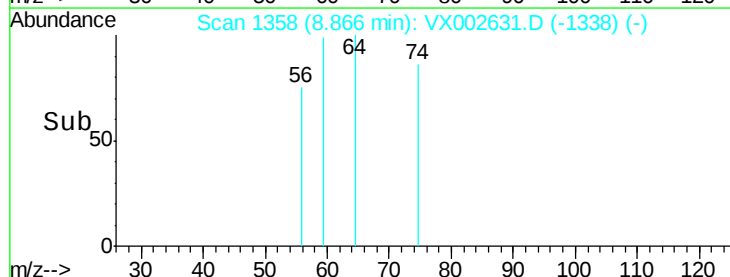
100

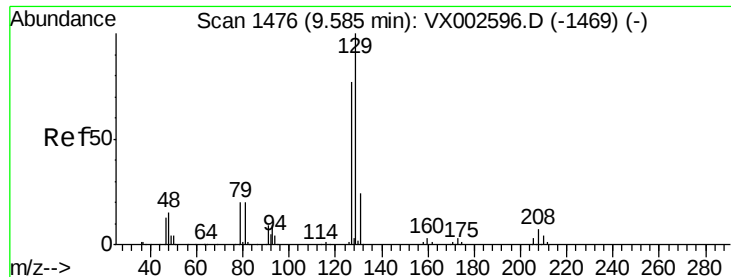
50

0

8.85 8.86 8.87 8.88

Time-->





#60

Dibromochloromethane

Concen: 3.78 ug/l

RT: 9.33 min Scan# 1434

Delta R.T. -0.26 min

Lab File: VX002631.D

Acq: 16 Jun 2018 07:38

Instrument :

MSVOA_X

ClientSampleId :

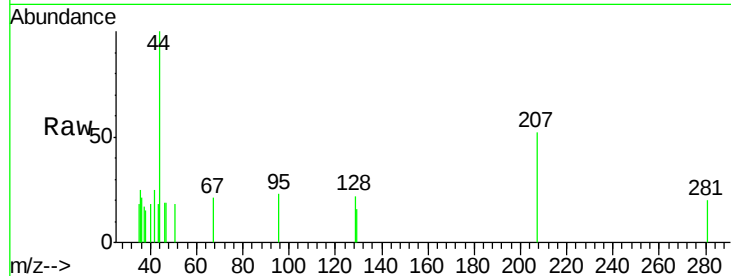
Z5TB07-180611

Tot Ion:129 Resp: 68

Ion Ratio Lower Upper

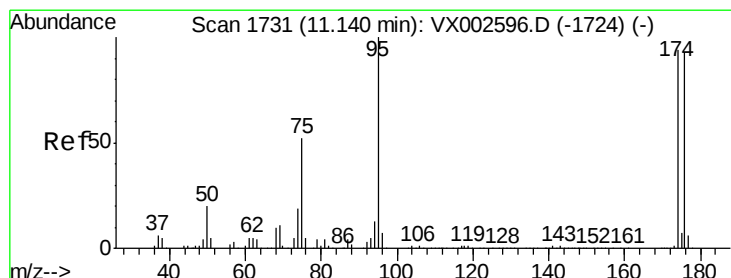
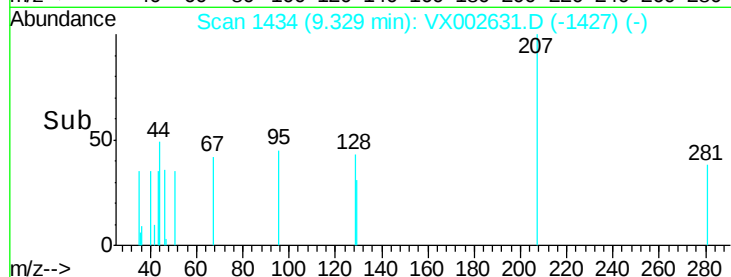
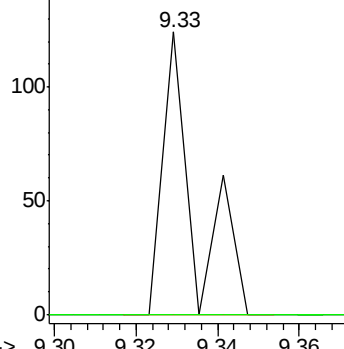
129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 41.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002631.D

Acq: 16 Jun 2018 07:38

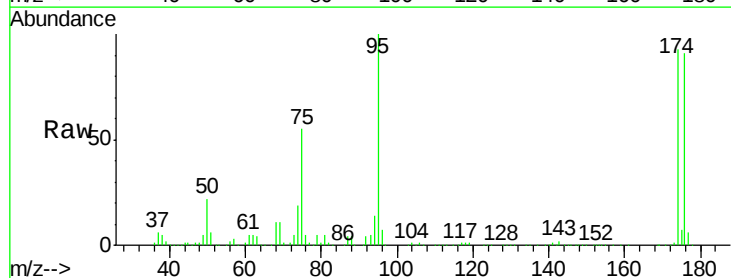
Tgt Ion: 95 Resp: 152515

Ion Ratio Lower Upper

95 100

174 96.4 0.0 187.4

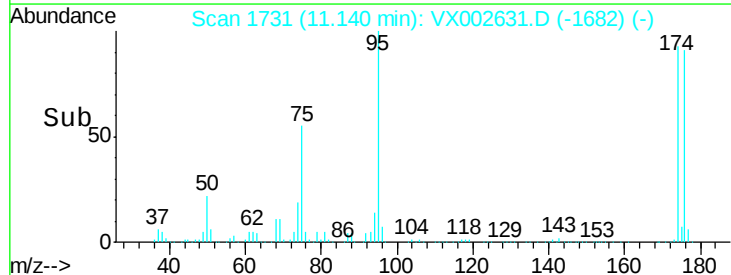
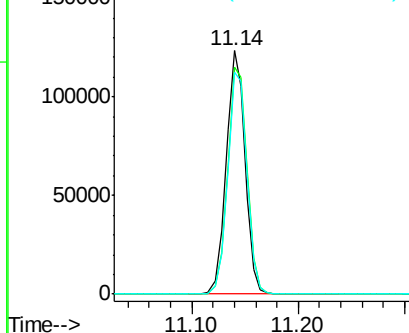
176 93.8 0.0 181.0

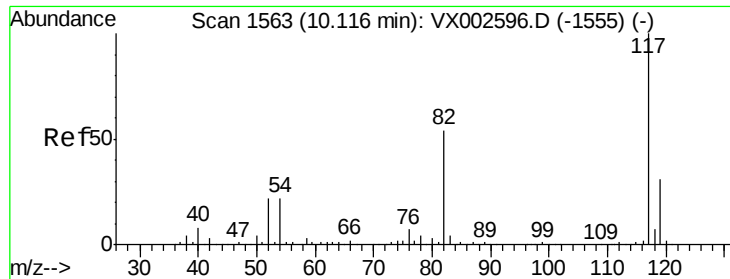


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

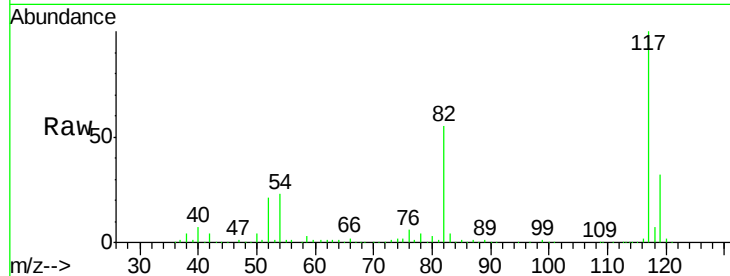




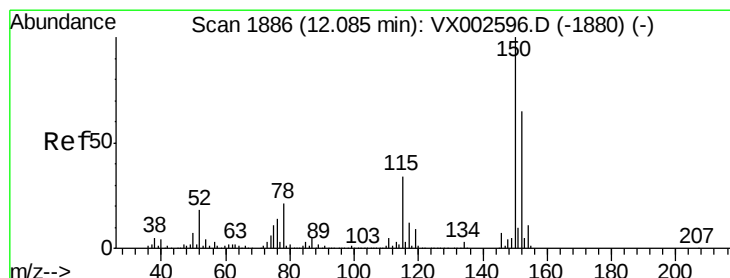
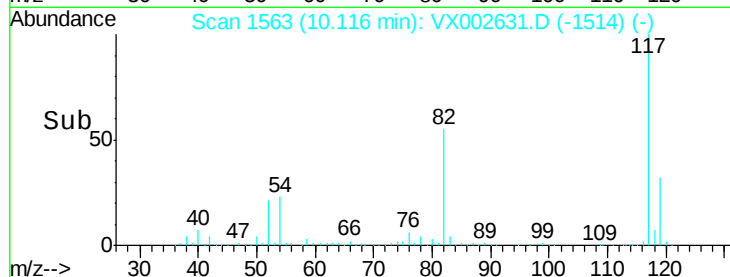
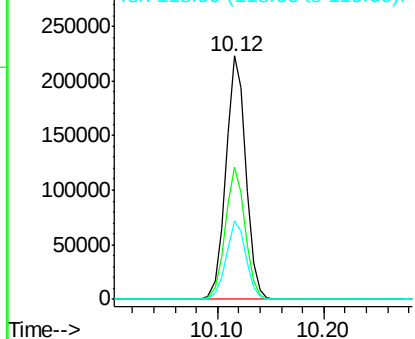
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002631.D
Acq: 16 Jun 2018 07:38

Instrument :
MSVOA_X
ClientSampleId :
Z5TB07-180611

Tot Ion:117 Resp: 292868
Ion Ratio Lower Upper
117 100
82 54.5 45.0 67.4
119 32.3 25.8 38.6

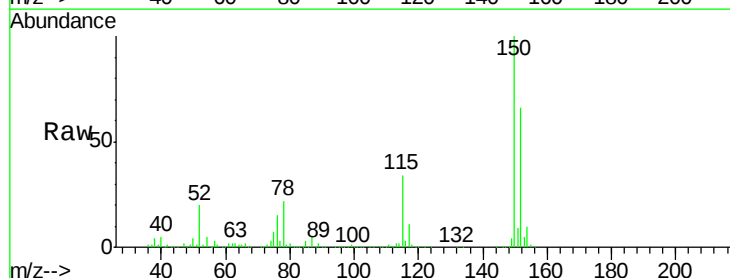


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

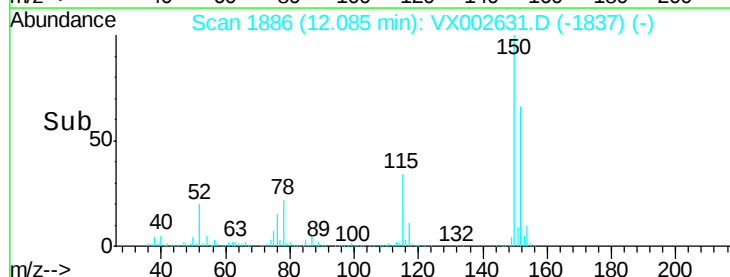
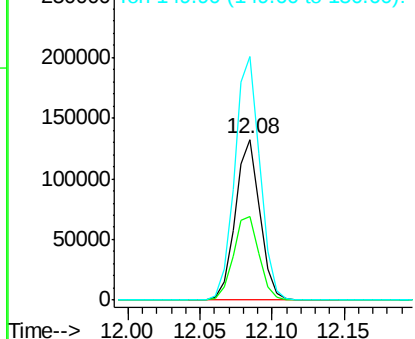


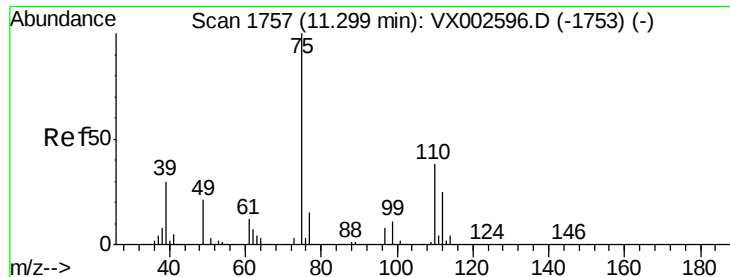
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002631.D
Acq: 16 Jun 2018 07:38

Tgt Ion:152 Resp: 158189
Ion Ratio Lower Upper
152 100
115 54.7 40.1 120.2
150 156.0 0.0 347.2



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

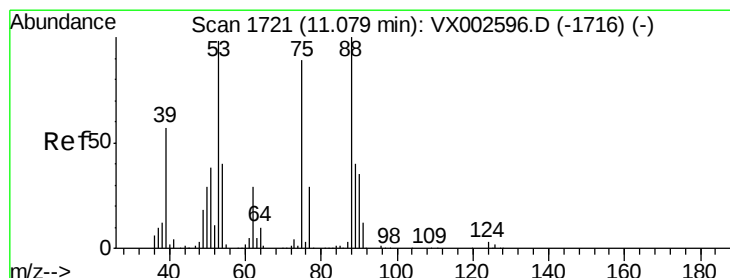
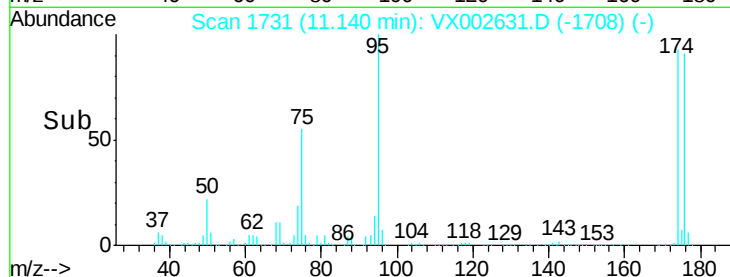
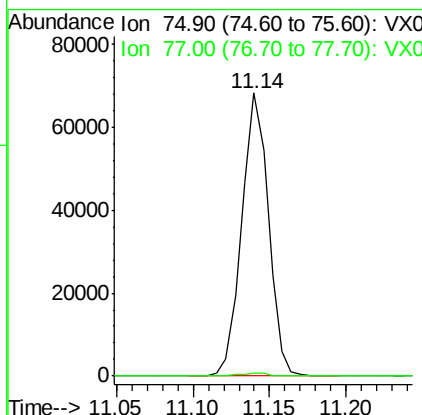
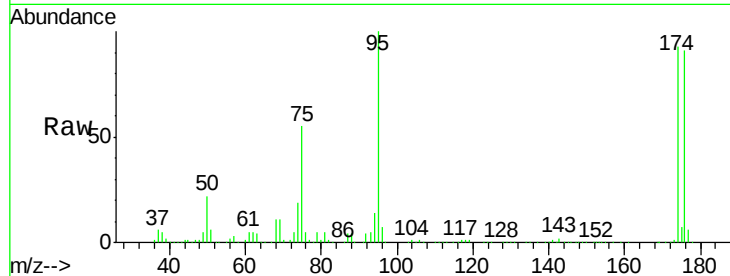




#76
 1,2,3-Trichloropropane
 Concen: 27.73 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002631.D
 Acq: 16 Jun 2018 07:38

Instrument :
 MSVOA_X
 ClientSampleId :
 Z5TB07-180611

Tot Ion: 75 Resp: 82768
 Ion Ratio Lower Upper
 75 100
 77 1.1 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 85.48 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002631.D
 Acq: 16 Jun 2018 07:38

Tgt Ion: 75 Resp: 82768
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.1 38.2 57.2#

