

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004096.D
 Acq On : 16 Aug 2018 02:41
 Operator : JC/MD
 Sample : J4495-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z5TB01-180814

Quant Time: Aug 16 07:17:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	247270	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	393567	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	362626	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	193704	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	182207	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	
35) Dibromofluoromethane	5.51	113	157205	53.37	ug/l	0.00
Spiked Amount			Recovery	=	106.74%	
50) Toluene-d8	8.72	98	554186	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	
62) 4-Bromofluorobenzene	11.14	95	184594	42.62	ug/l	0.00
Spiked Amount			Recovery	=	85.24%	

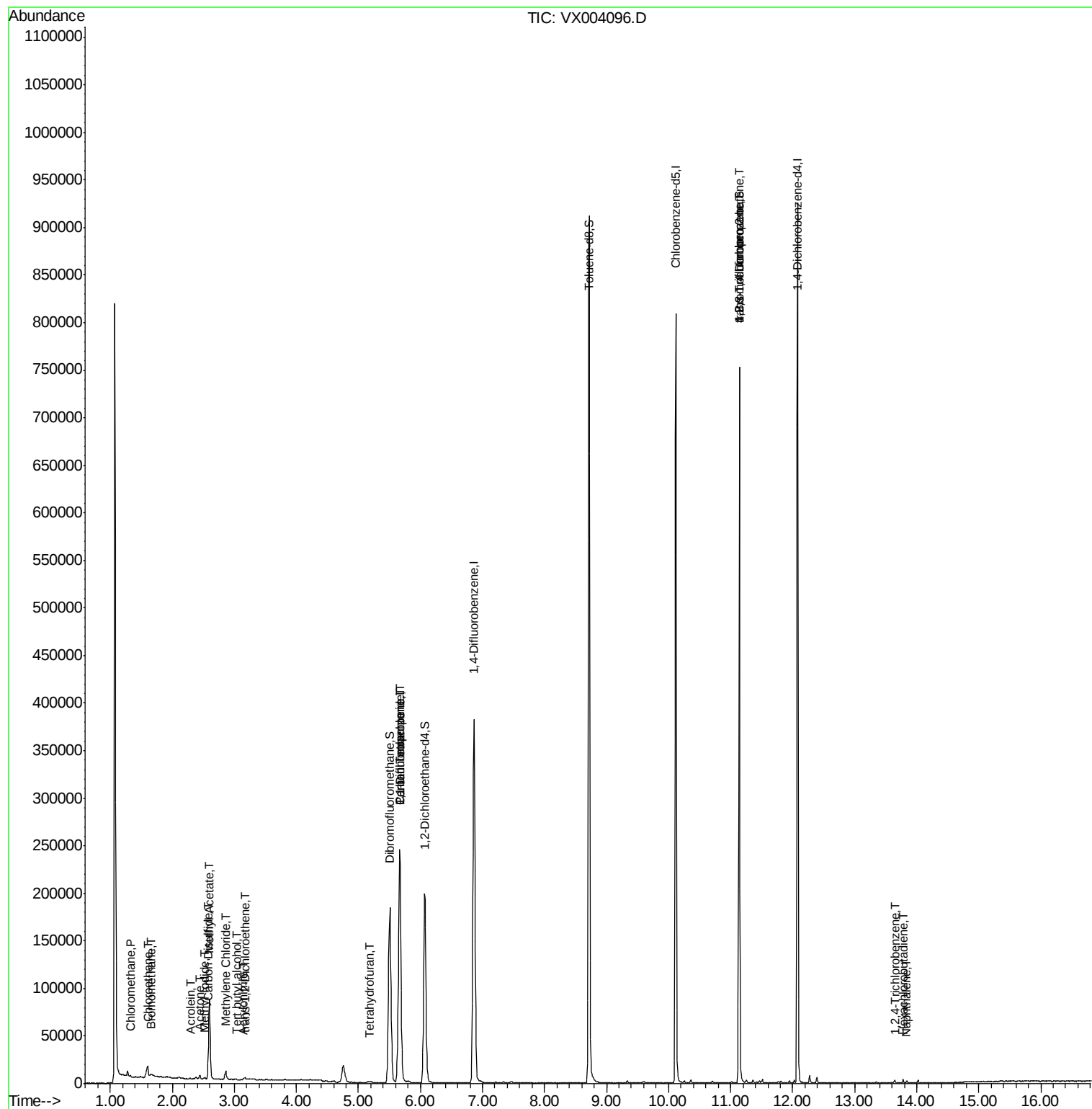
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	908	0.31	ug/l	89
5) Bromomethane	1.65	94	1565	0.79	ug/l	96
6) Chloroethane	1.61	64	4748	0.50	ug/l #	58
10) Methyl Iodide	2.53	142	1637	5.50	ug/l	97
11) Tert butyl alcohol	3.03	59	1208	1.72	ug/l #	77
13) Acrolein	2.30	56	240	11.43	ug/l #	47
15) Acrylonitrile	3.14	53	785	0.45	ug/l	90
16) Acetone	2.44	43	4621	2.55	ug/l	98
17) Carbon Disulfide	2.57	76	2809	0.38	ug/l #	81
18) Methyl Acetate	2.59	43	23431	5.82	ug/l #	52
20) Methylene Chloride	2.86	84	4412	0.89	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	755	0.26	ug/l #	71
29) Tetrahydrofuran	5.17	42	1171	0.78	ug/l #	65
36) 1,1-Dichloropropene	5.67	75	17098	3.82	ug/l #	49
38) Carbon Tetrachloride	5.67	117	22493	5.17	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	90052	23.18	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	90052	71.76	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.65	180	1011	0.24	ug/l	96
94) Hexachlorobutadiene	13.78	225	663	0.31	ug/l	95
95) Naphthalene	13.83	128	1507	1.25	ug/l	98

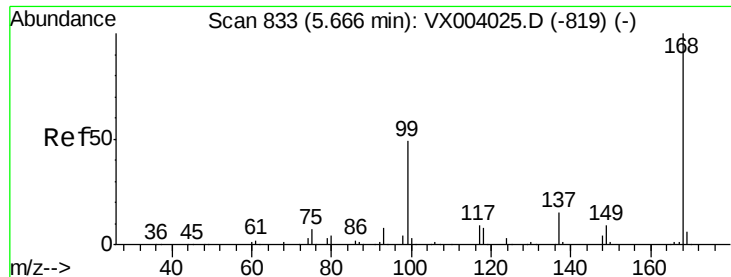
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004096.D

Acq: 16 Aug 2018 02:41

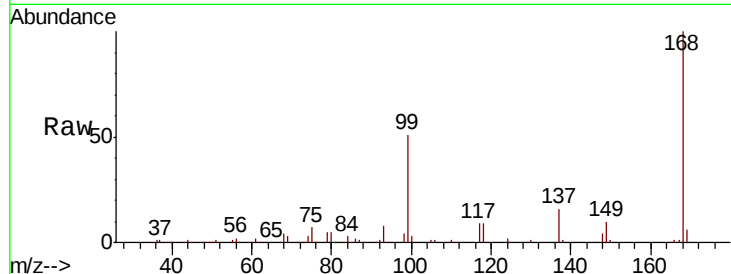
Instrument :
MSVOA_X
ClientSampleId :
Z5TB01-180814

Tot Ion:168 Resp: 247270

Ion Ratio Lower Upper

168 100

99 51.3 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

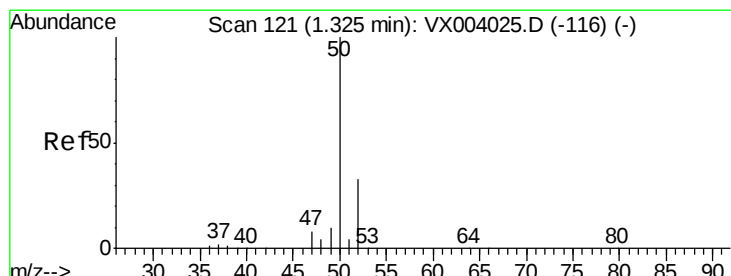
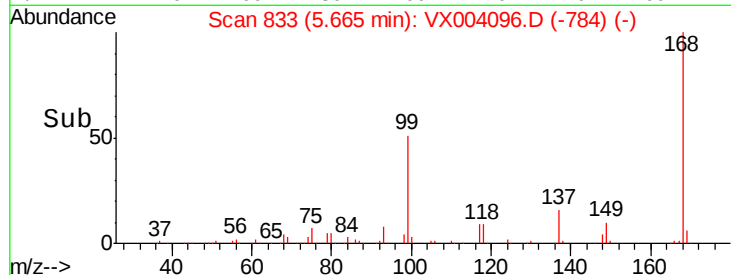
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 0.31 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004096.D

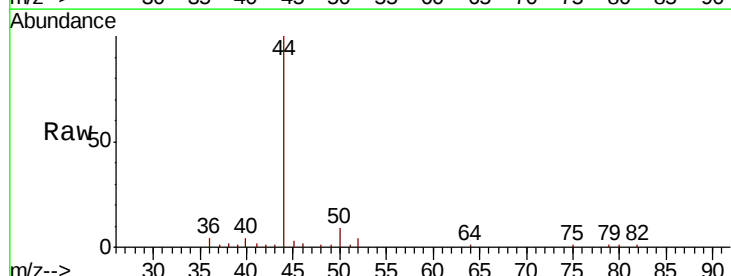
Acq: 16 Aug 2018 02:41

Tgt Ion: 50 Resp: 908

Ion Ratio Lower Upper

50 100

52 39.4 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

300

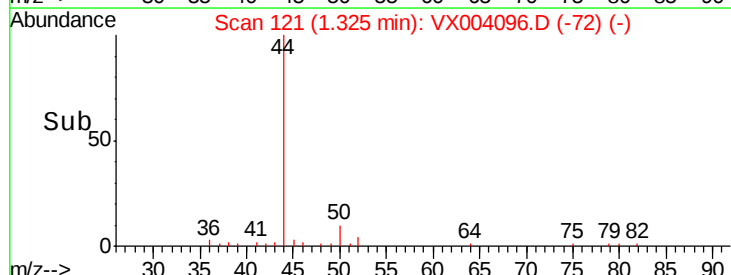
200

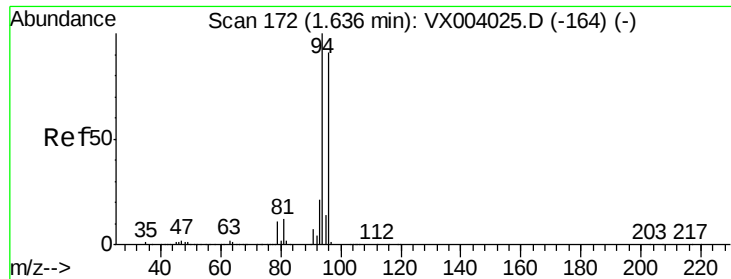
100

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: 0.79 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004096.D

Acq: 16 Aug 2018 02:41

Instrument :

MSVOA_X

ClientSampleId :

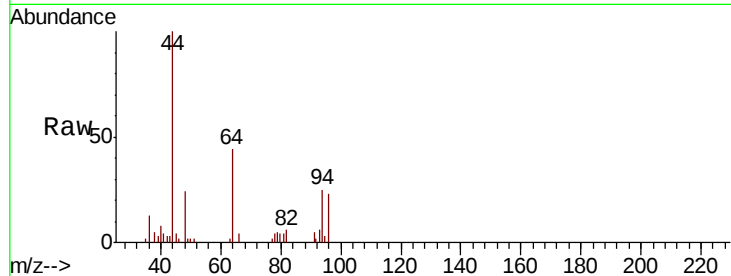
Z5TB01-180814

Tot Ion: 94 Resp: 1565

Ion Ratio Lower Upper

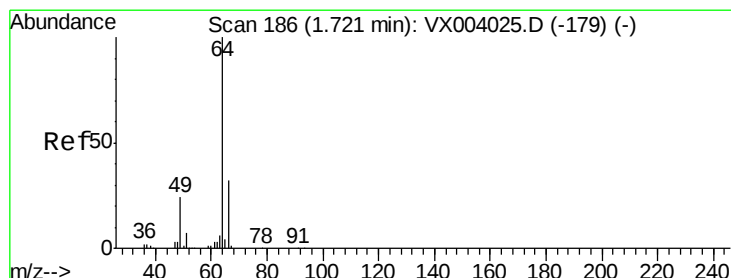
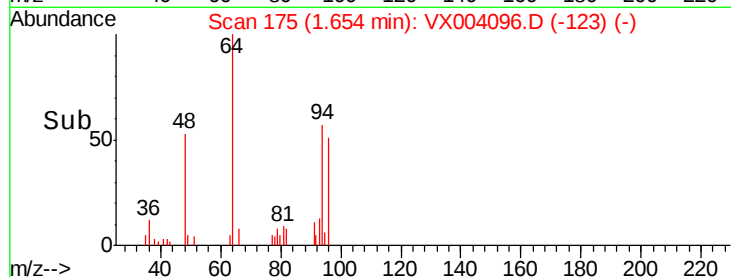
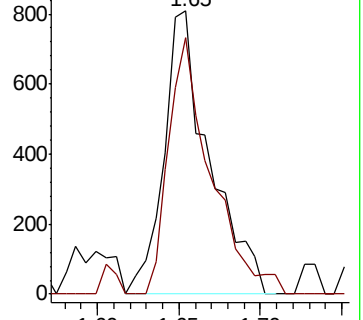
94 100

96 90.6 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: 0.50 ug/l

RT: 1.61 min Scan# 168

Delta R.T. -0.11 min

Lab File: VX004096.D

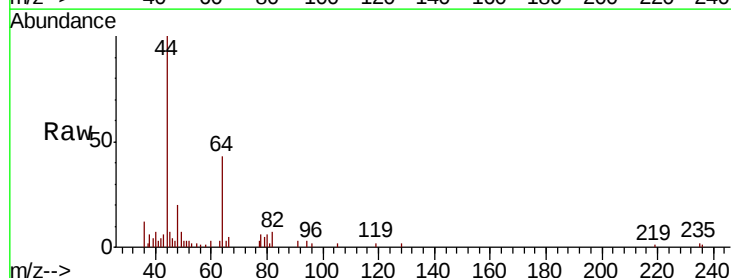
Acq: 16 Aug 2018 02:41

Tgt Ion: 64 Resp: 4748

Ion Ratio Lower Upper

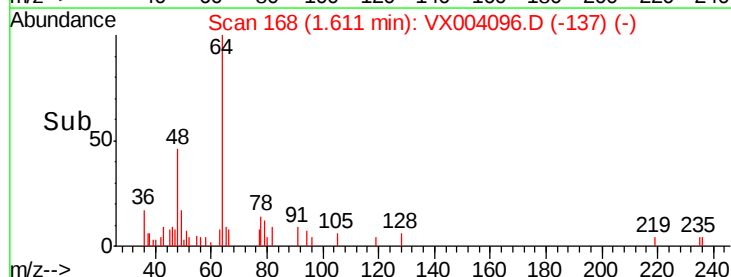
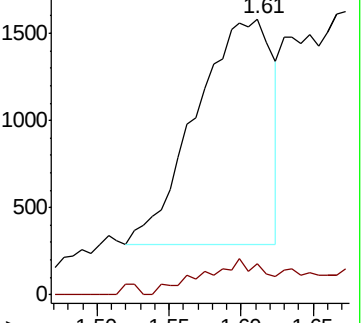
64 100

66 9.4 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

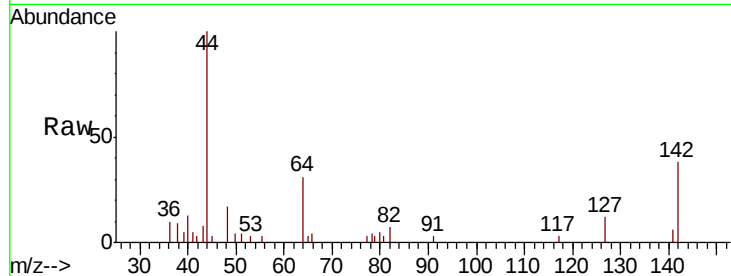




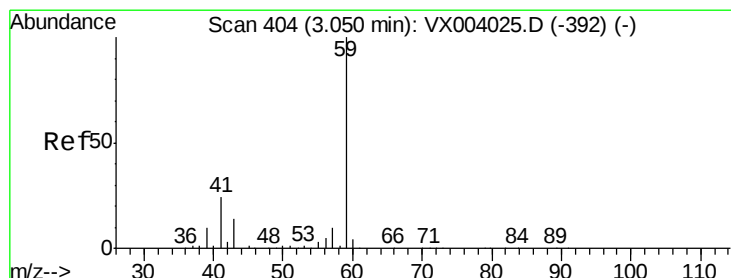
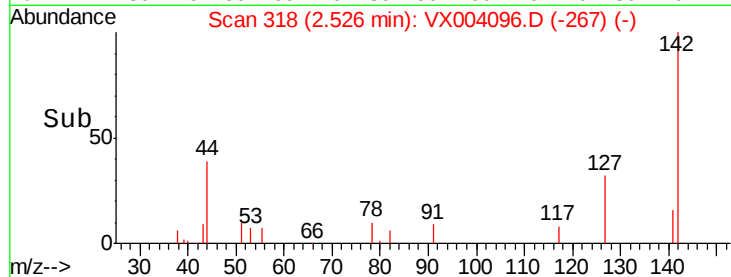
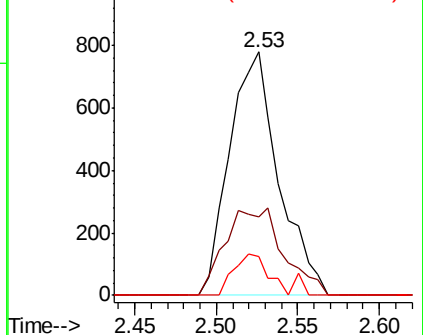
#10
Methyl Iodide
Concen: 5.50 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX004096.D
Acq: 16 Aug 2018 02:41

Instrument :
MSVOA_X
ClientSampleId :
Z5TB01-180814

Tot Ion:142 Resp: 1637
Ion Ratio Lower Upper
142 100
127 42.5 33.1 49.7
141 11.8 11.1 16.7

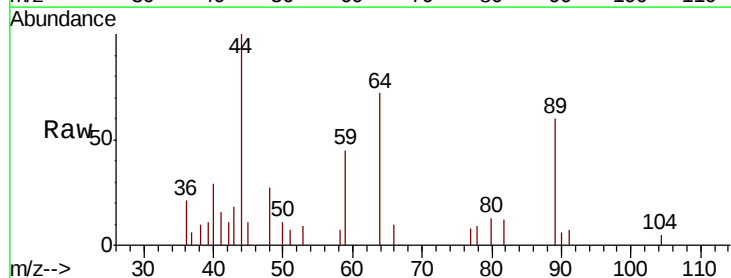


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

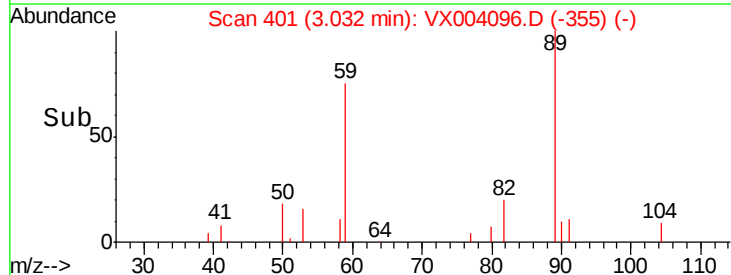
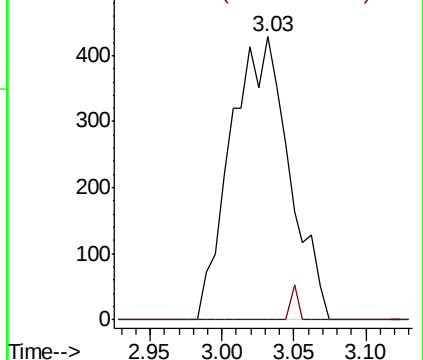


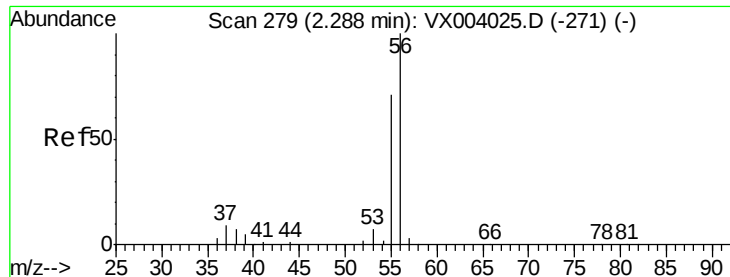
#11
Tert butyl alcohol
Concen: 1.72 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.02 min
Lab File: VX004096.D
Acq: 16 Aug 2018 02:41

Tgt Ion: 59 Resp: 1208
Ion Ratio Lower Upper
59 100
57 1.6 8.1 12.1#



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

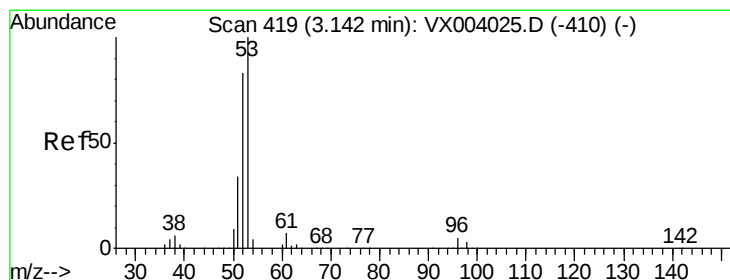
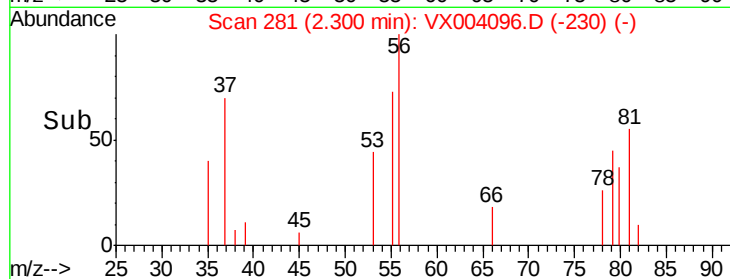
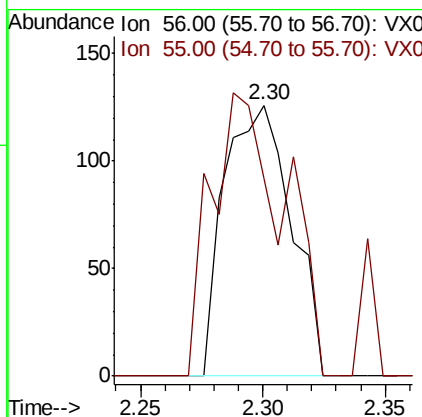
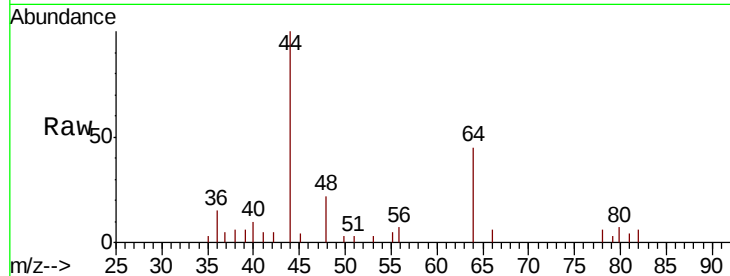




#13
Acrolein
Concen: 11.43 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX004096.D
Acq: 16 Aug 2018 02:41

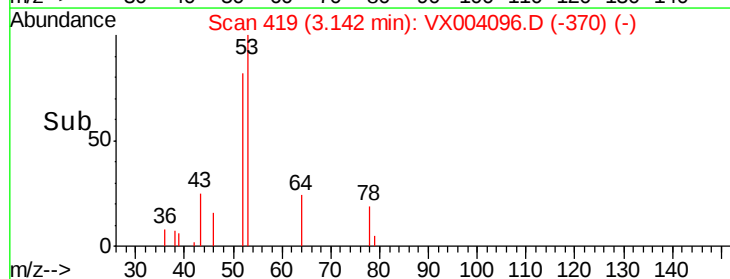
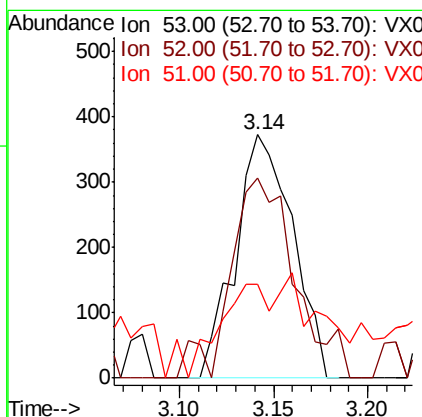
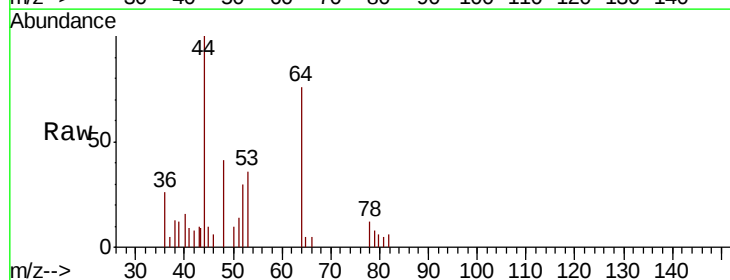
Instrument :
MSVOA_X
ClientSampleId :
Z5TB01-180814

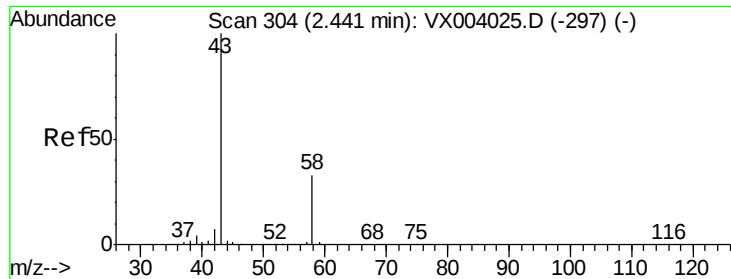
Tot Ion: 56 Resp: 240
Ion Ratio Lower Upper
56 100
55 113.3 56.1 84.1#



#15
Acrylonitrile
Concen: 0.45 ug/l
RT: 3.14 min Scan# 419
Delta R.T. -0.00 min
Lab File: VX004096.D
Acq: 16 Aug 2018 02:41

Tgt Ion: 53 Resp: 785
Ion Ratio Lower Upper
53 100
52 93.0 65.3 97.9
51 33.0 27.9 41.9





#16

Acetone

Concen: 2.55 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004096.D

Acq: 16 Aug 2018 02:41

Instrument :

MSVOA_X

ClientSampleId :

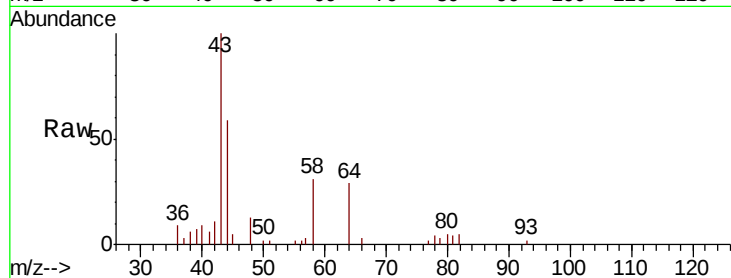
Z5TB01-180814

Tot Ion: 43 Resp: 4621

Ion Ratio Lower Upper

43 100

58 32.1 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

3000

2500

2000

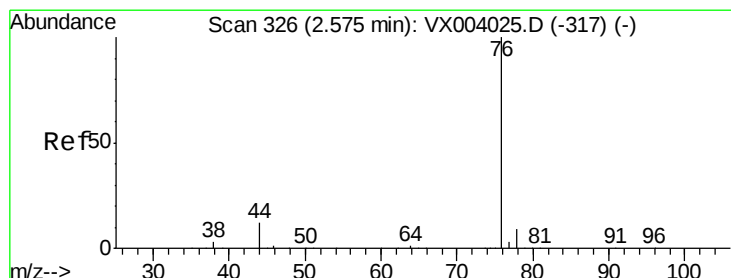
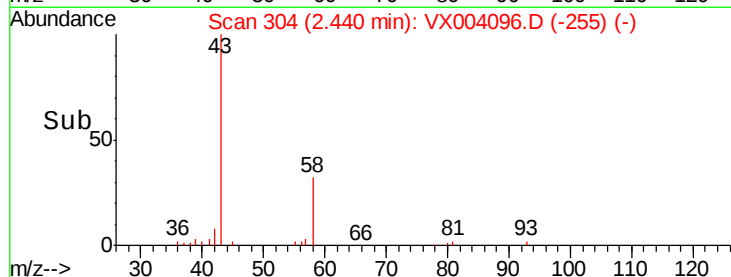
1500

1000

500

0

Time--> 2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.38 ug/l

RT: 2.57 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX004096.D

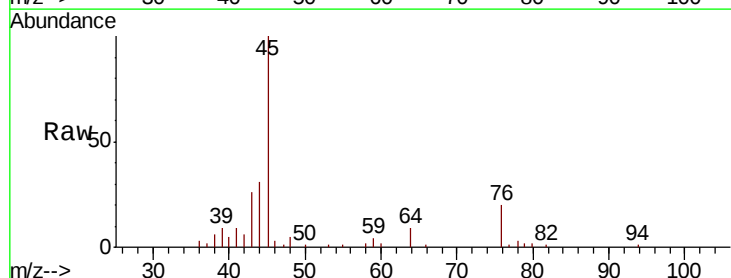
Acq: 16 Aug 2018 02:41

Tgt Ion: 76 Resp: 2809

Ion Ratio Lower Upper

76 100

78 16.2 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

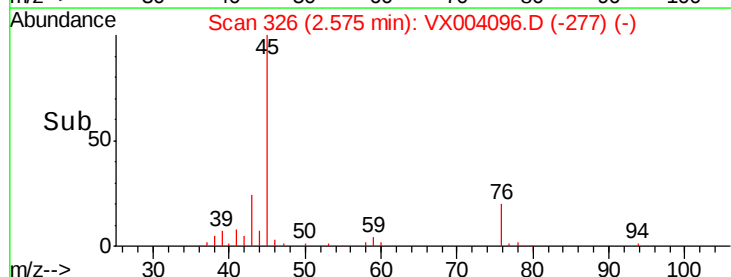
1500

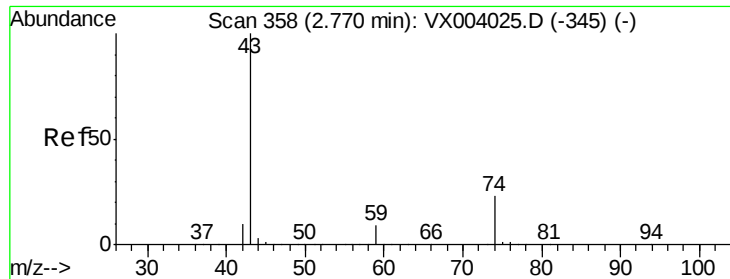
1000

500

0

Time--> 2.50 2.55 2.60 2.65

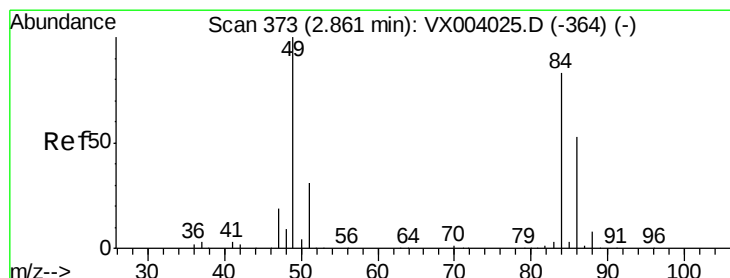
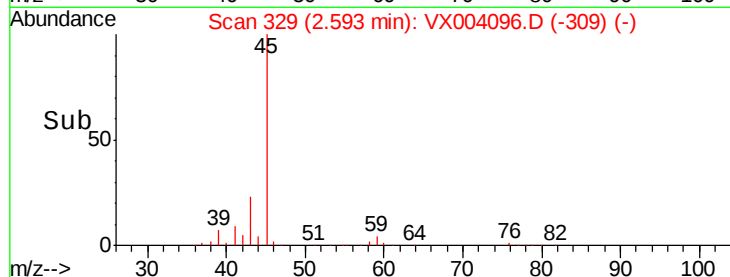
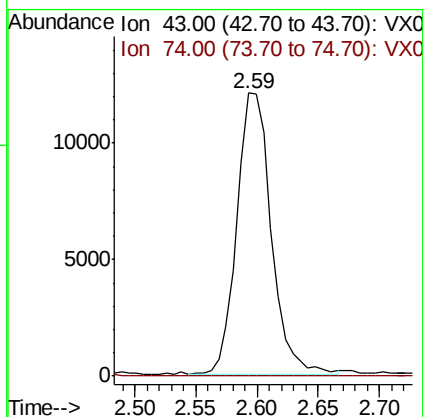
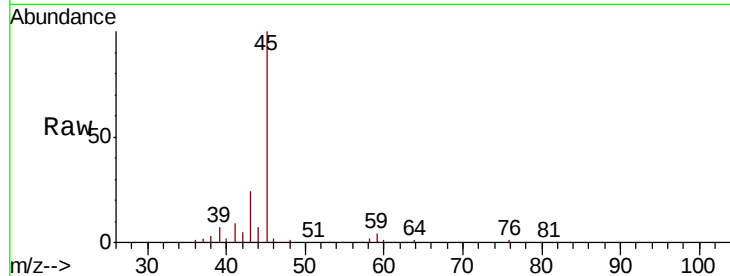




#18
Methyl Acetate
Concen: 5.82 ug/l
RT: 2.59 min Scan# 329
Delta R.T. -0.18 min
Lab File: VX004096.D
Acq: 16 Aug 2018 02:41

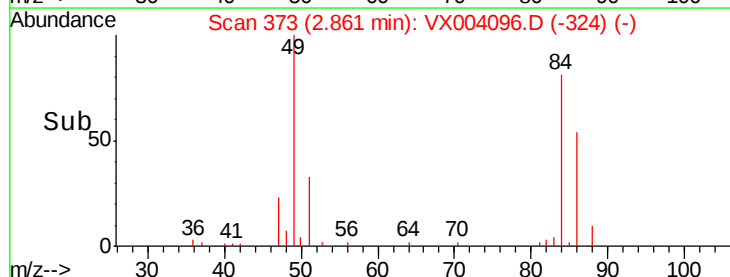
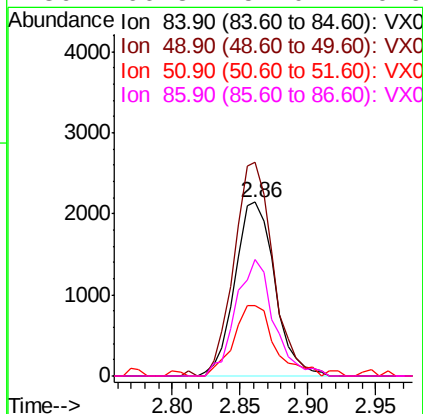
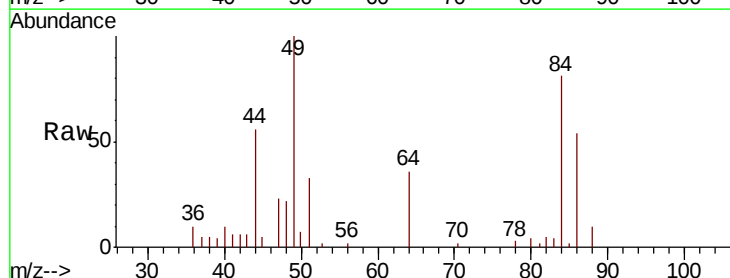
Instrument :
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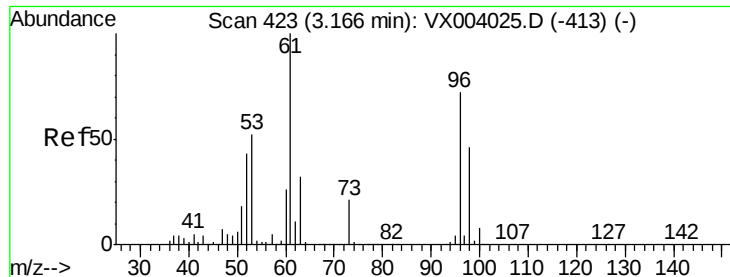
Tot Ion: 43 Resp: 23431
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#20
Methylene Chloride
Concen: 0.89 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX004096.D
Acq: 16 Aug 2018 02:41

Tgt Ion: 84 Resp: 4412
Ion Ratio Lower Upper
84 100
49 123.0 98.9 148.3
51 40.3 29.9 44.9
86 66.8 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 0.26 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX004096.D

Acq: 16 Aug 2018 02:41

Instrument :

MSVOA_X

ClientSampleId :

Z5TB01-180814

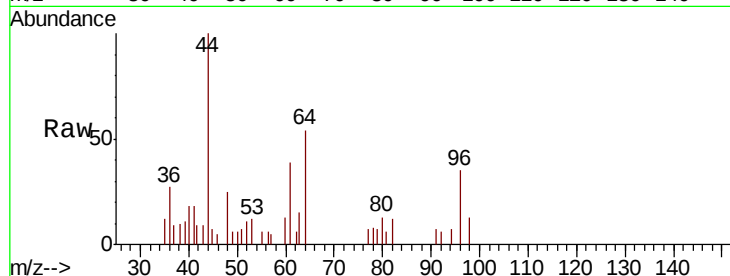
Tot Ion: 96 Resp: 755

Ion Ratio Lower Upper

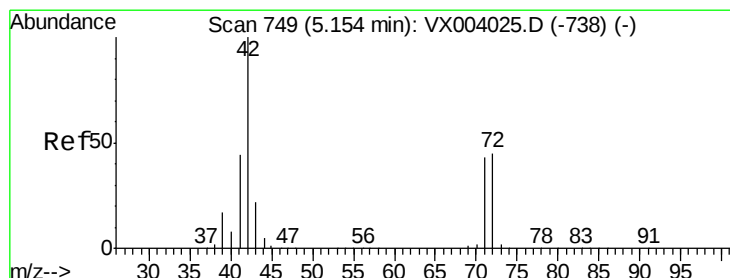
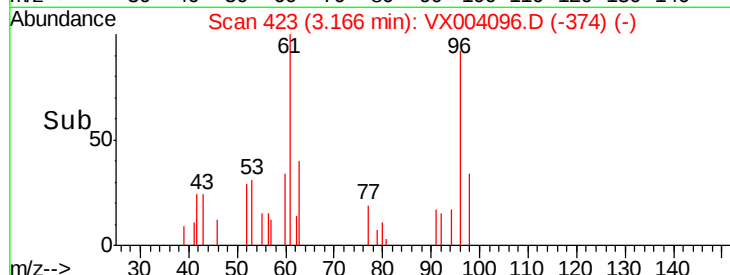
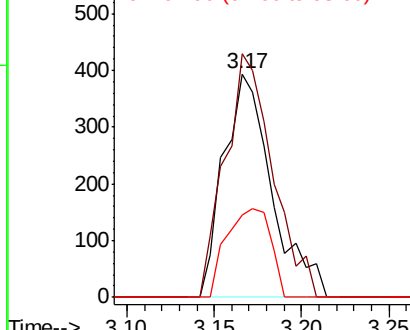
96 100

61 108.9 111.8 167.6#

98 36.8 51.8 77.6#



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#29

Tetrahydrofuran

Concen: 0.78 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.02 min

Lab File: VX004096.D

Acq: 16 Aug 2018 02:41

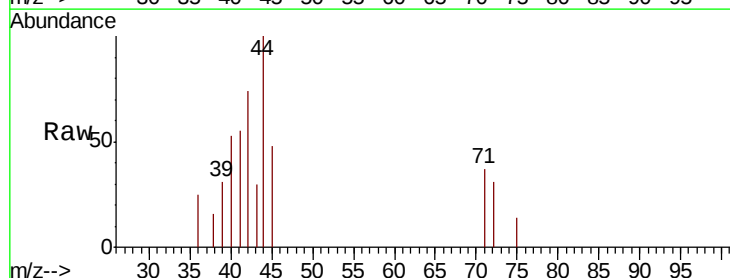
Tgt Ion: 42 Resp: 1171

Ion Ratio Lower Upper

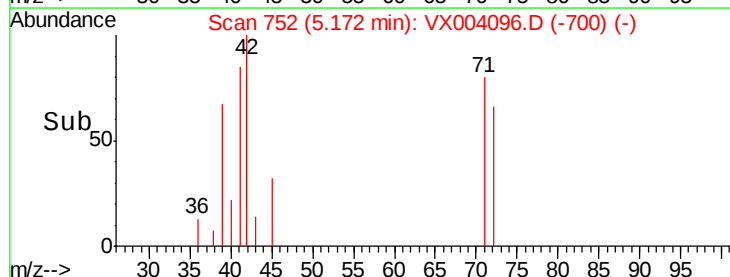
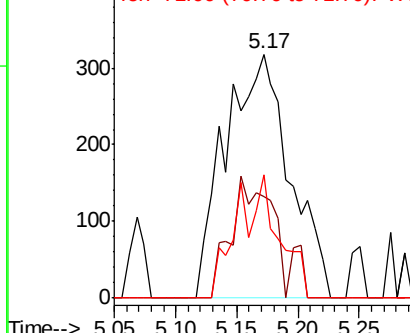
42 100

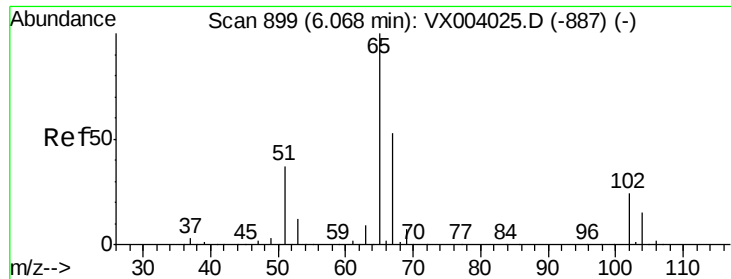
72 31.1 37.7 56.5#

71 13.2 35.0 52.6#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

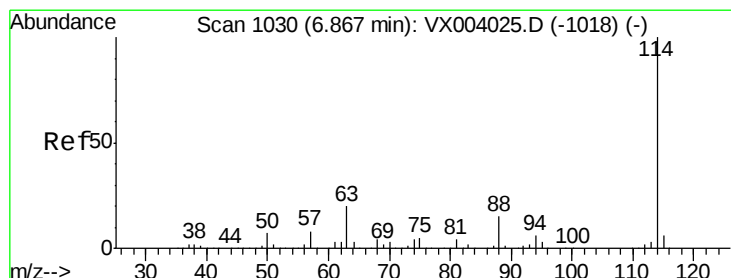
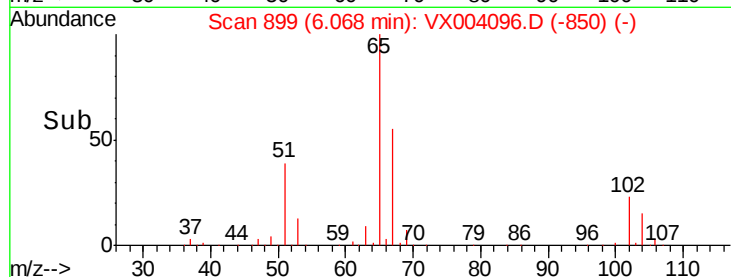
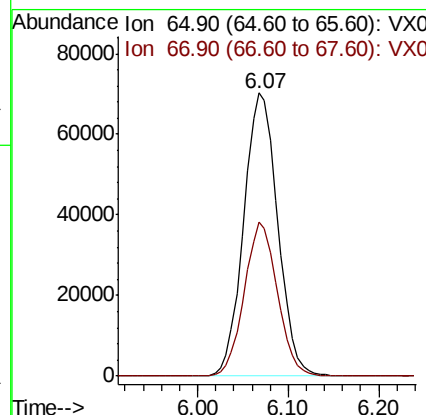
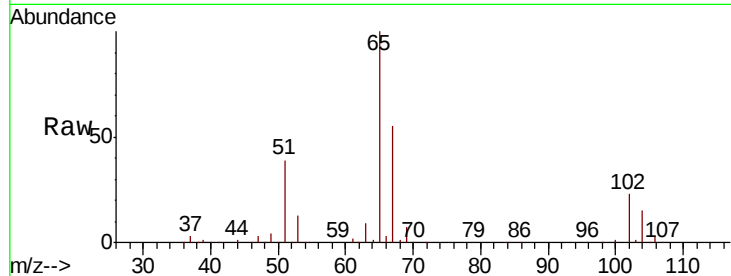




#33
 1,2-Dichloroethane-d4
 Concen: 52.30 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004096.D
 Acq: 16 Aug 2018 02:41

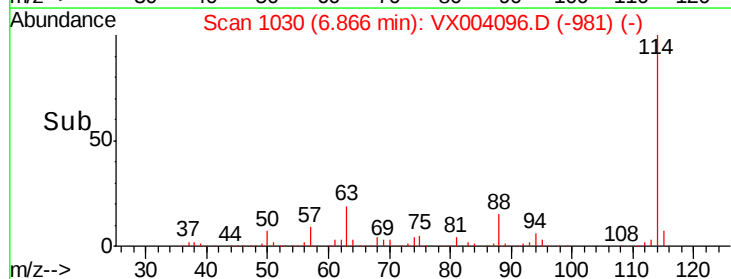
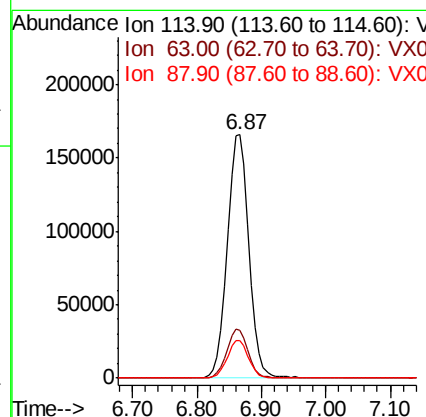
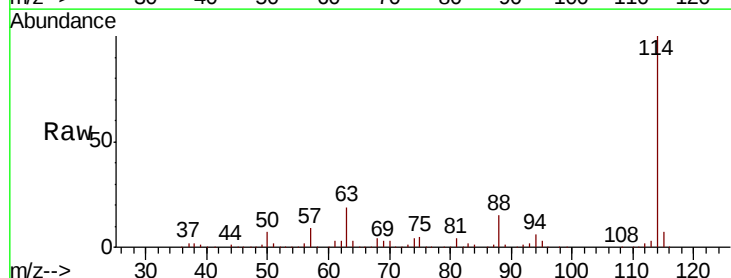
Instrument :
 MSVOA_X
 ClientSampleId :
 Z5TB01-180814

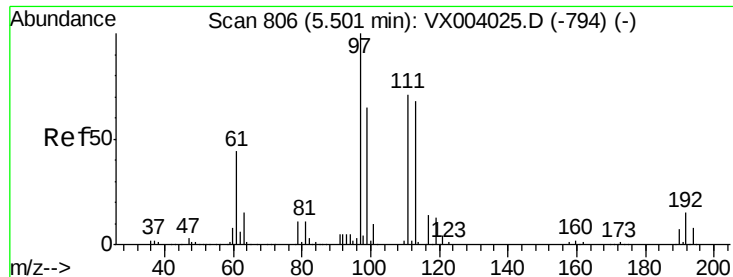
Tot Ion: 65 Resp: 182207
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX004096.D
 Acq: 16 Aug 2018 02:41

Tgt Ion: 114 Resp: 393567
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.0
 88 15.2 0.0 32.0

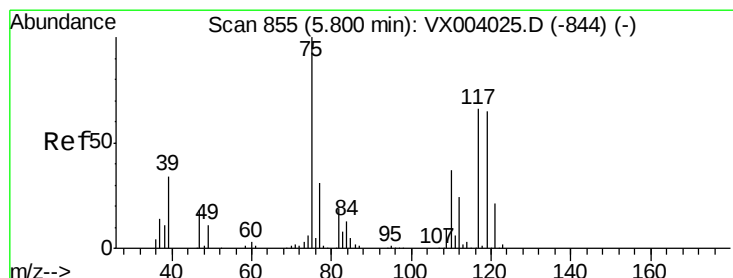
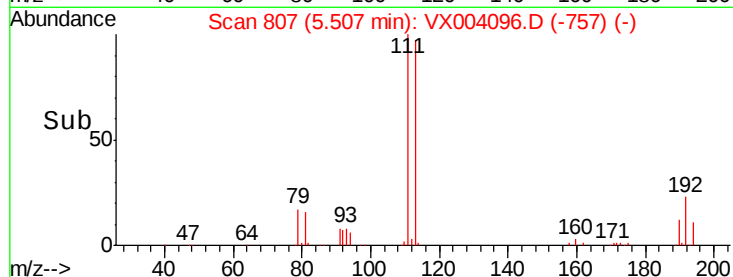
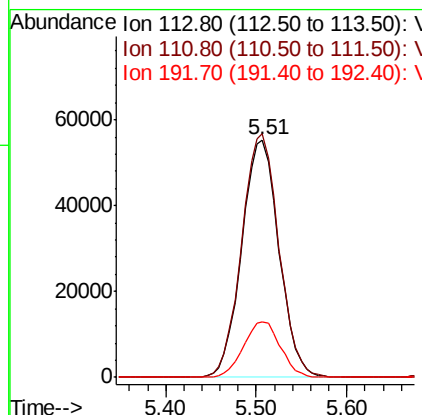
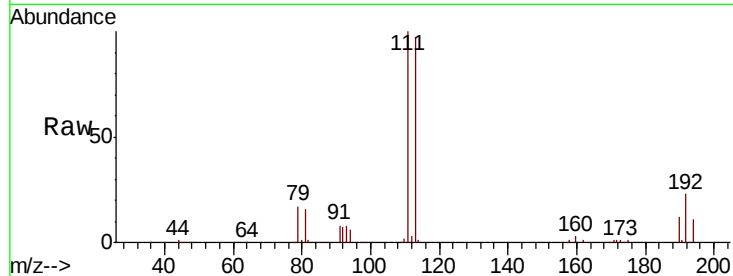




#35
 Dibromofluoromethane
 Concen: 53.37 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004096.D
 Acq: 16 Aug 2018 02:41

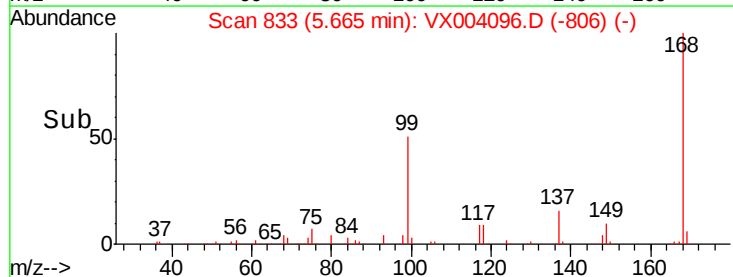
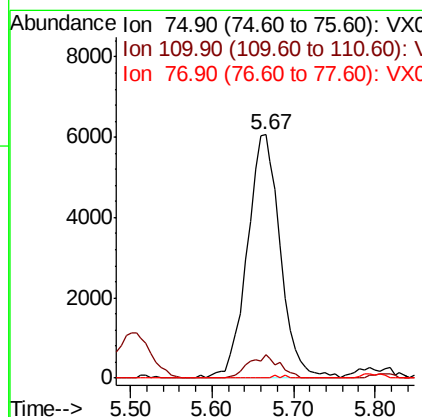
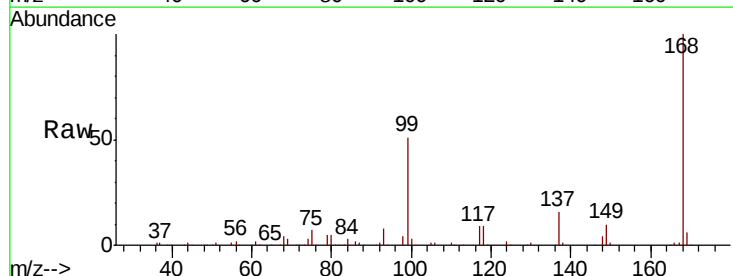
Instrument :
 MSVOA_X
 ClientSampleId :
 Z5TB01-180814

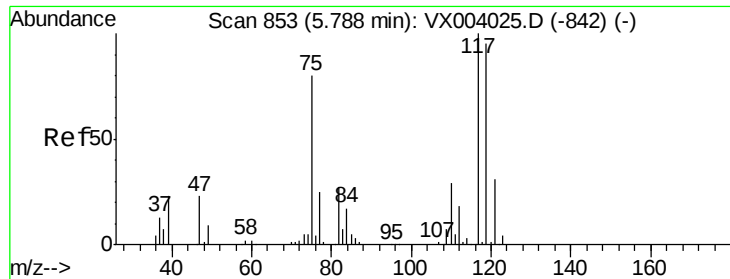
Tot Ion:113 Resp: 157205
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.0 123.0
 192 23.2 19.0 28.4



#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX004096.D
 Acq: 16 Aug 2018 02:41

Tgt Ion: 75 Resp: 17098
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.2 54.6#
 77 0.3 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.17 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004096.D

Acq: 16 Aug 2018 02:41

Instrument :

MSVOA_X

ClientSampleId :

Z5TB01-180814

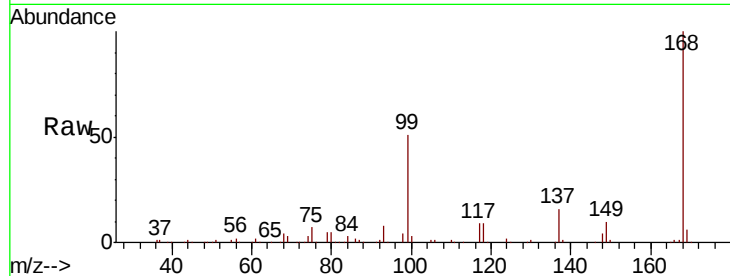
Tot Ion:117 Resp: 22493

Ion Ratio Lower Upper

117 100

119 5.5 79.5 119.3#

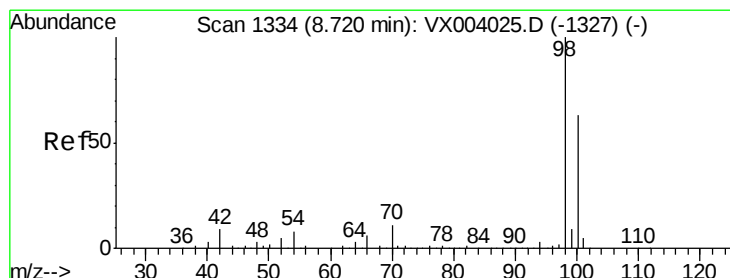
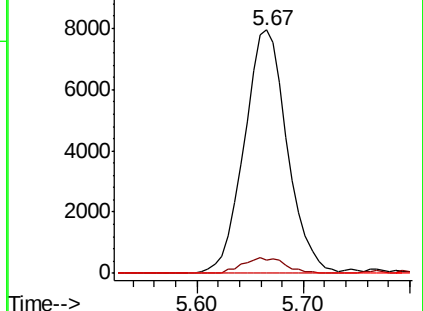
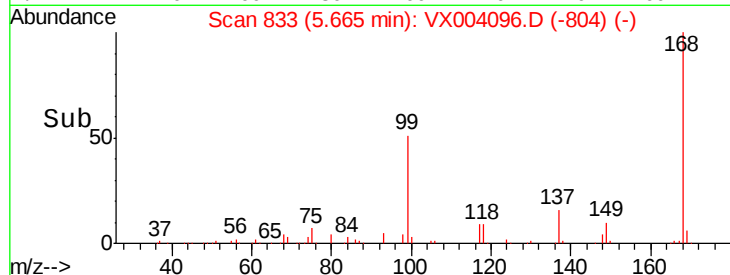
121 0.0 25.0 37.4#



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: 46.40 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004096.D

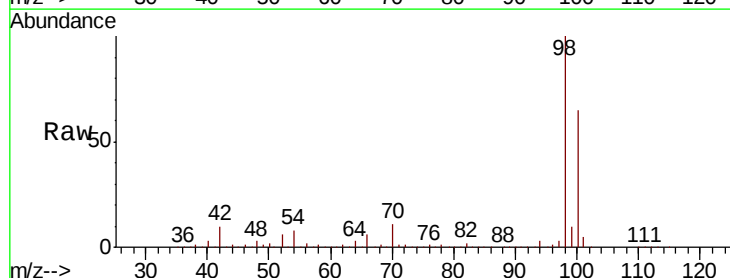
Acq: 16 Aug 2018 02:41

Tgt Ion: 98 Resp: 554186

Ion Ratio Lower Upper

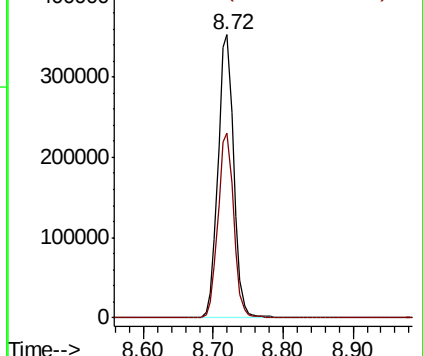
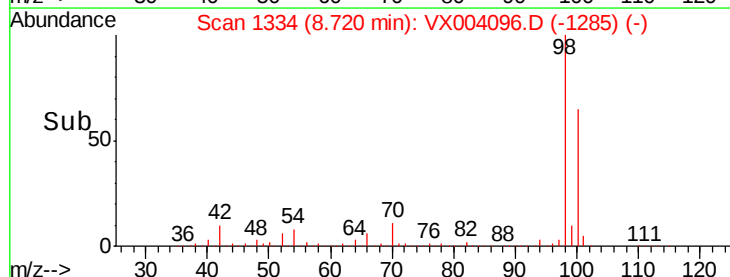
98 100

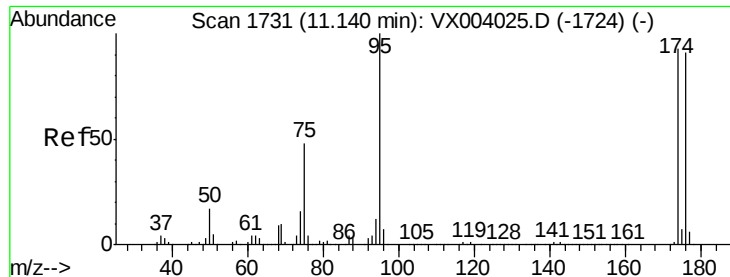
100 65.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

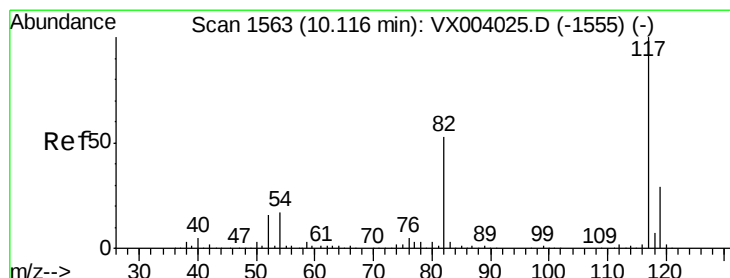
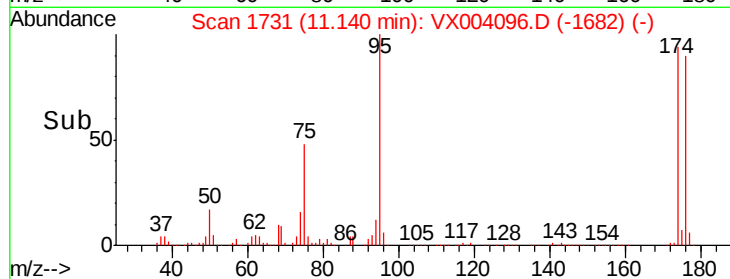
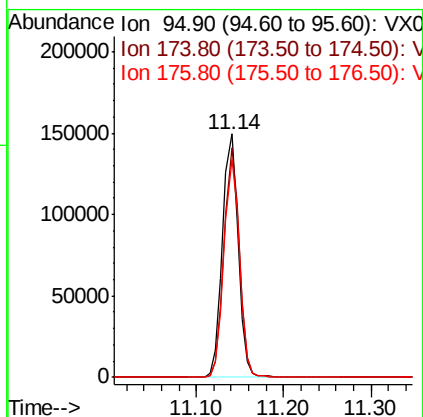
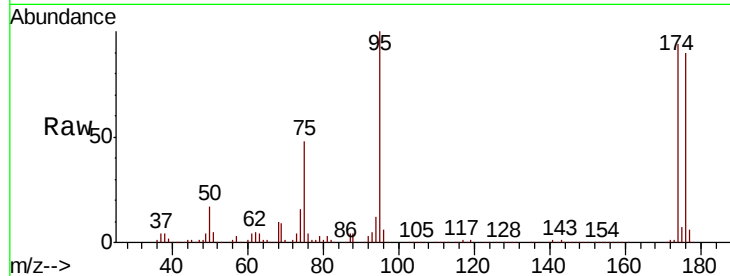




#62
4-Bromofluorobenzene
Concen: 42.62 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004096.D
Acq: 16 Aug 2018 02:41

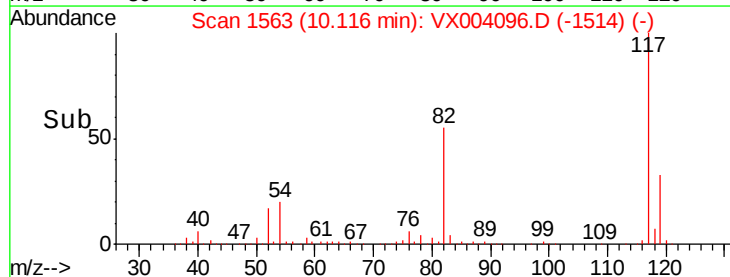
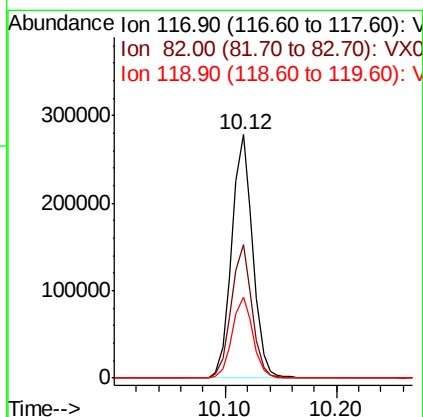
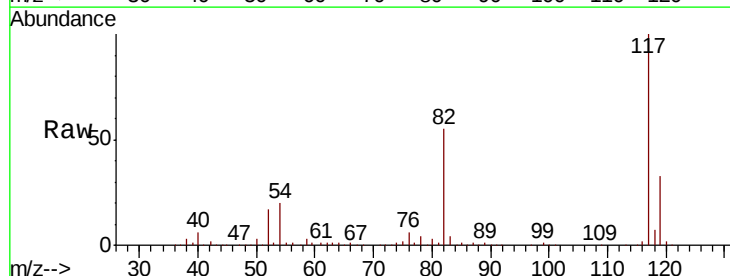
Instrument :
MSVOA_X
ClientSampleId :
Z5TB01-180814

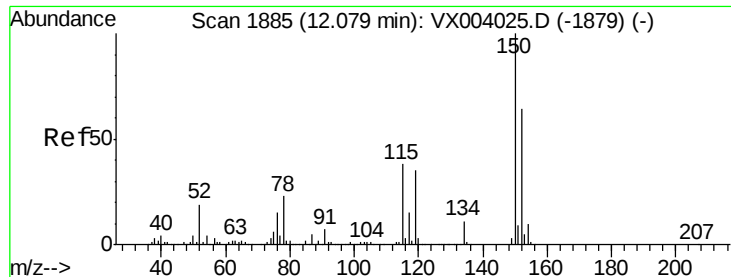
Tot Ion: 95 Resp: 184594
Ion Ratio Lower Upper
95 100
174 93.1 0.0 182.8
176 88.9 0.0 179.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004096.D
Acq: 16 Aug 2018 02:41

Tgt Ion: 117 Resp: 362626
Ion Ratio Lower Upper
117 100
82 54.8 45.4 68.0
119 33.3 26.6 40.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004096.D

Acq: 16 Aug 2018 02:41

Instrument :

MSVOA_X

ClientSampleId :

Z5TB01-180814

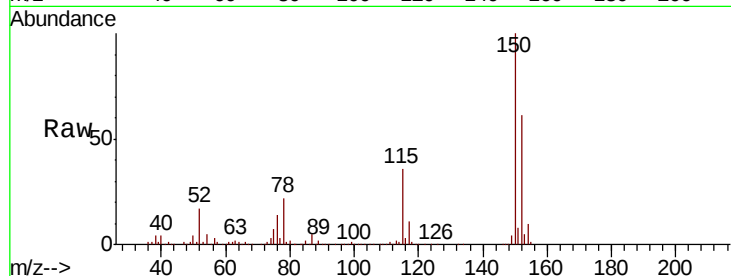
Tot Ion:152 Resp: 193704

Ion Ratio Lower Upper

152 100

115 55.7 39.1 117.3

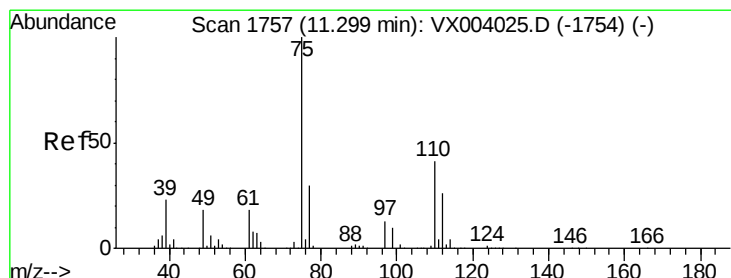
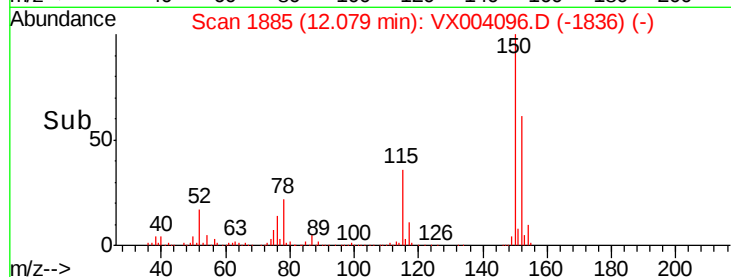
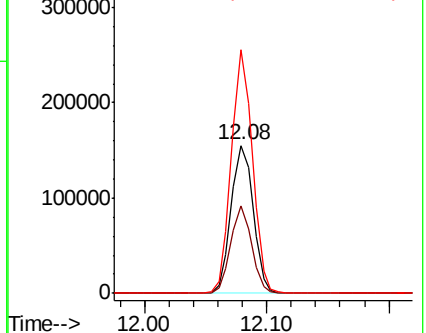
150 157.3 0.0 349.2



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: 23.18 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004096.D

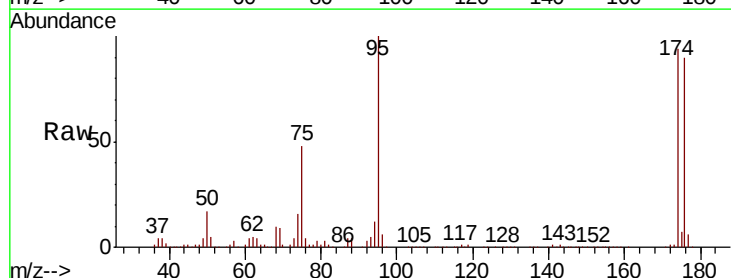
Acq: 16 Aug 2018 02:41

Tgt Ion: 75 Resp: 90052

Ion Ratio Lower Upper

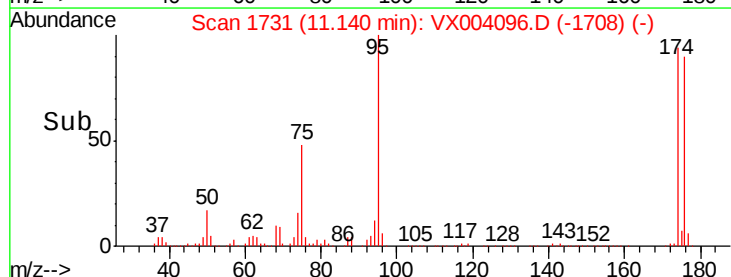
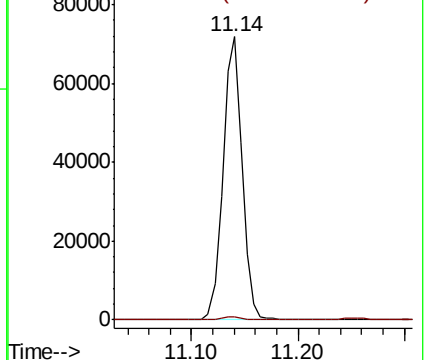
75 100

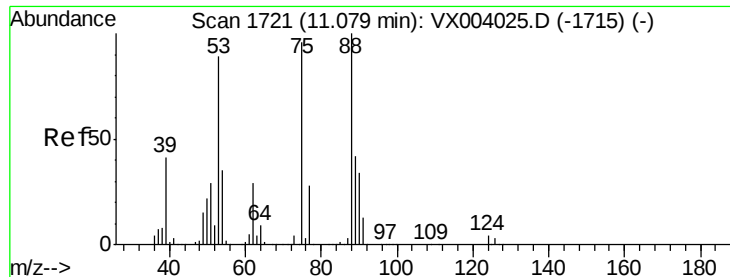
77 1.3 20.8 62.5#



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: 71.76 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004096.D

Acq: 16 Aug 2018 02:41

Instrument :

MSVOA_X

ClientSampleId :

Z5TB01-180814

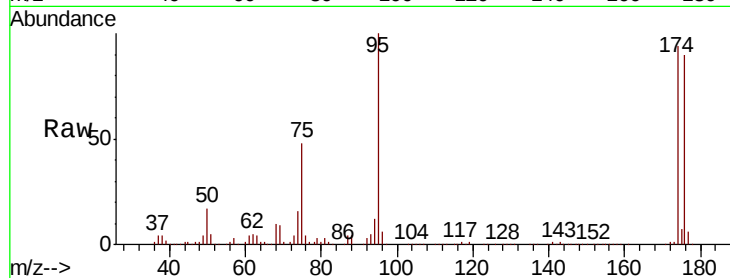
Tot Ion: 75 Resp: 90052

Ion Ratio Lower Upper

75 100

53 0.3 80.3 120.5#

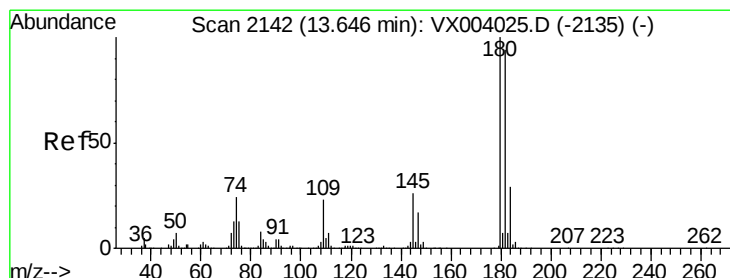
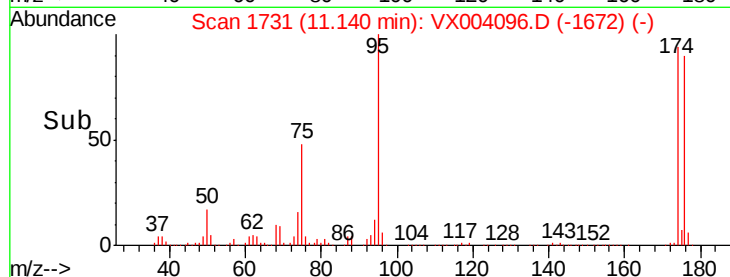
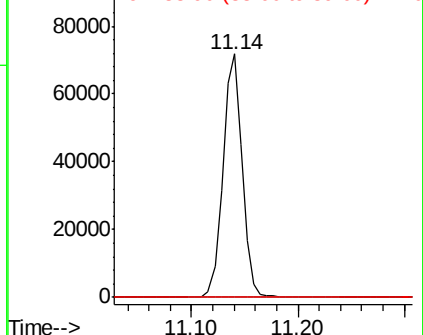
89 0.0 37.8 56.8#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.24 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. 0.01 min

Lab File: VX004096.D

Acq: 16 Aug 2018 02:41

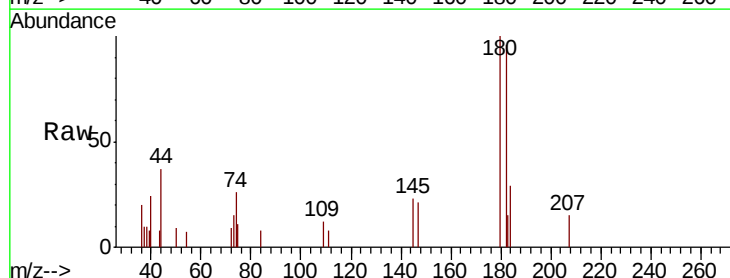
Tgt Ion: 180 Resp: 1011

Ion Ratio Lower Upper

180 100

182 90.5 47.7 143.1

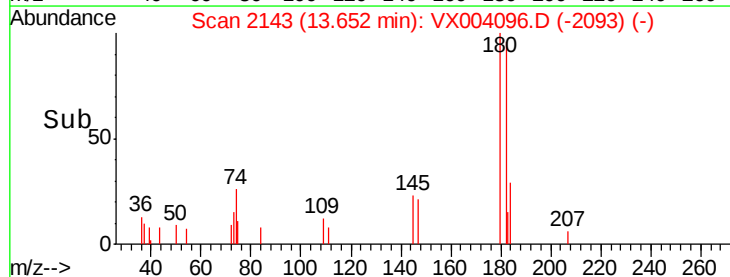
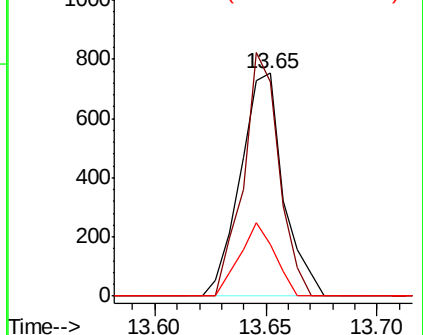
145 26.8 13.9 41.6

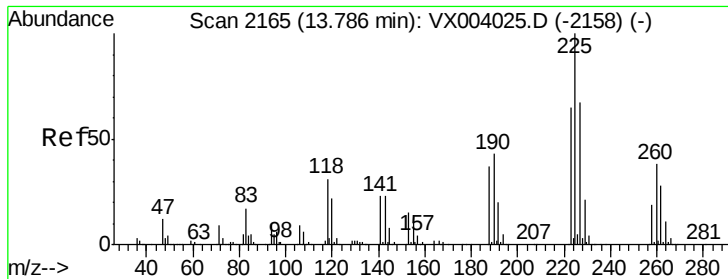


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.31 ug/l

RT: 13.78 min Scan# 2164

Delta R.T. -0.01 min

Lab File: VX004096.D

Acq: 16 Aug 2018 02:41

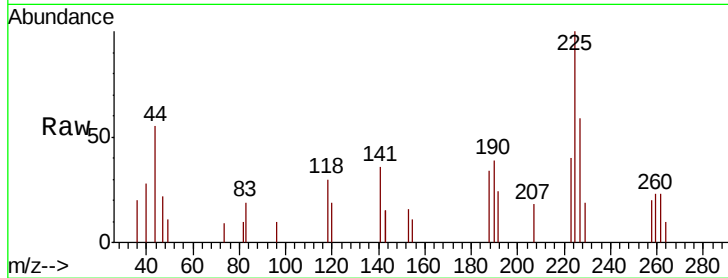
Instrument :

MSVOA_X

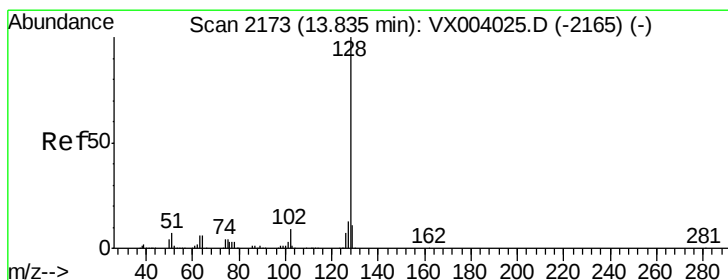
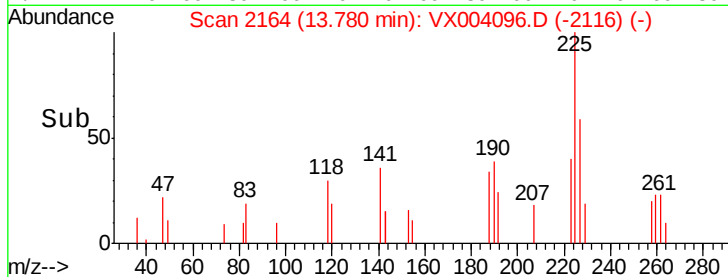
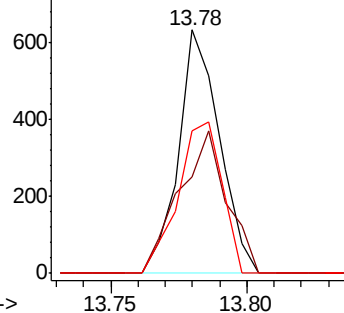
ClientSampleId :

Z5TB01-180814

Tot Ion:	225	Resp:	663
Ion	Ratio	Lower	Upper
225	100		
223	67.9	31.4	94.0
227	66.7	32.1	96.5



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.25 ug/l

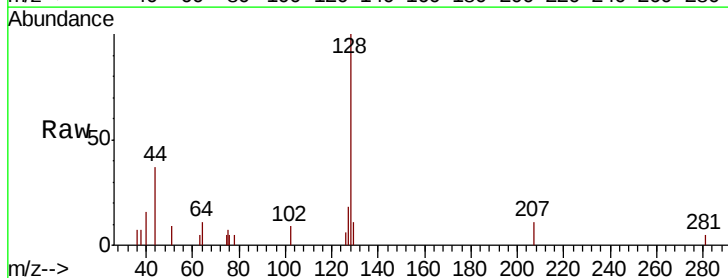
RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX004096.D

Acq: 16 Aug 2018 02:41

Tgt Ion:	128	Resp:	1507
Ion	Ratio	Lower	Upper
128	100		
127	11.9	10.2	15.2
129	10.1	8.8	13.2



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

