

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080918\
 Data File : VX003953.D
 Acq On : 09 Aug 2018 16:23
 Operator : JC/MD
 Sample : J4379-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-08082018

Quant Time: Aug 10 01:04:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 07:45:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	312214	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	487077	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	455139	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	245386	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	209787	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
35) Dibromofluoromethane	5.51	113	180219	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
50) Toluene-d8	8.72	98	682608	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	
62) 4-Bromofluorobenzene	11.14	95	241726	52.06	ug/l	0.00
Spiked Amount			Recovery	=	104.12%	

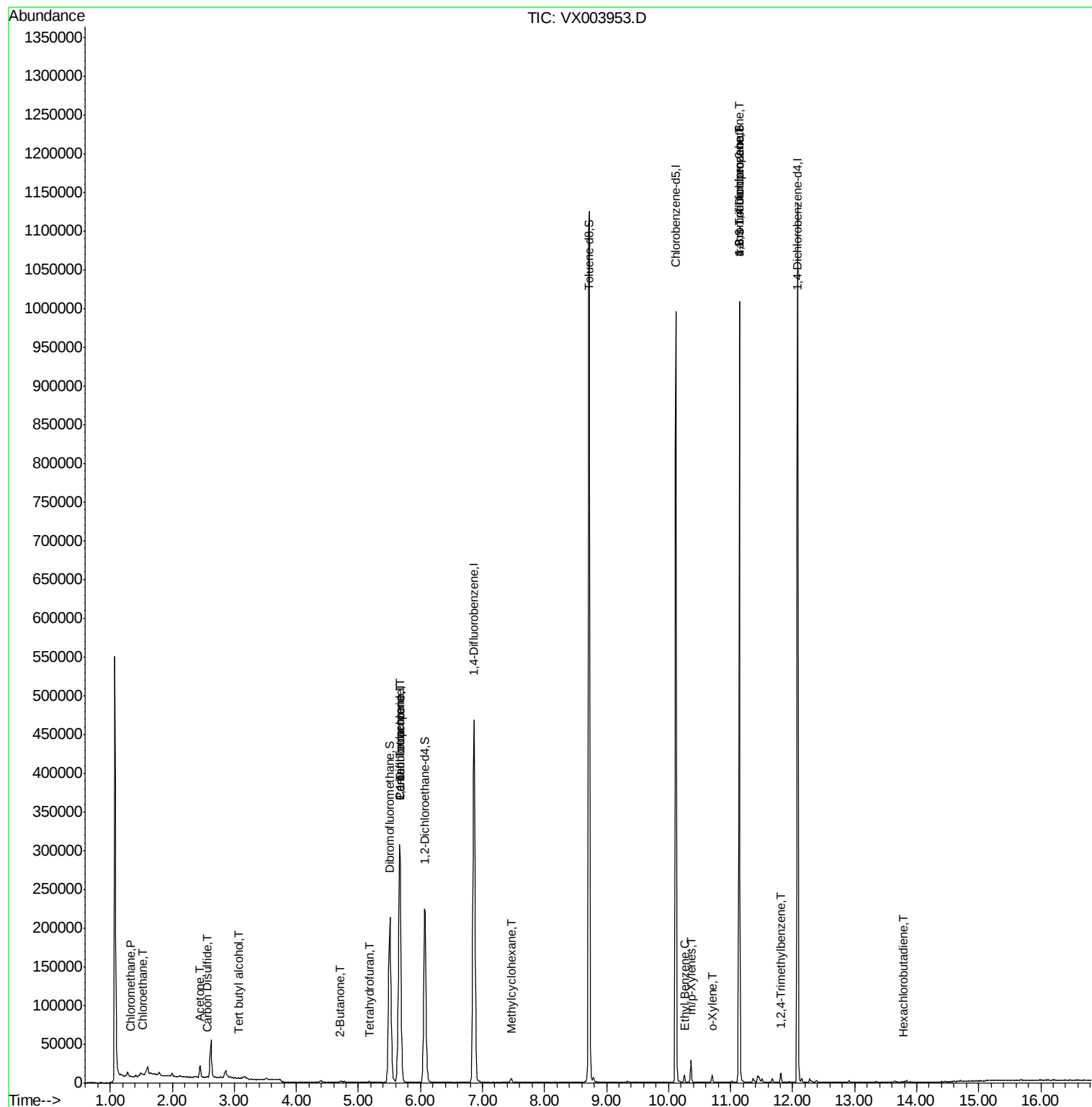
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	891	0.21	ug/l	# 86
5) Bromomethane	1.65	94	879	Below	Cal	81
6) Chloroethane	1.52	64	8084	2.94	ug/l	# 49
11) Tert butyl alcohol	3.07	59	435	0.44	ug/l	100
13) Acrolein	2.29	56	153	Below	Cal	98
16) Acetone	2.45	43	15369	6.24	ug/l	93
17) Carbon Disulfide	2.56	76	972	0.54	ug/l	# 74
20) Methylene Chloride	2.86	84	4418	Below	Cal	91
25) 2-Butanone	4.71	43	2741	0.74	ug/l	92
29) Tetrahydrofuran	5.18	42	1175	0.62	ug/l	# 81
36) 1,1-Dichloropropene	5.66	75	20752	3.80	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	27451	5.29	ug/l	# 15
39) Methylcyclohexane	7.46	83	2275	0.35	ug/l	88
67) Ethyl Benzene	10.26	91	5398	0.28	ug/l	98
68) m/p-Xylenes	10.36	106	6608	0.87	ug/l	96
69) o-Xylene	10.70	106	2014	0.28	ug/l	87
76) 1,2,3-Trichloropropane	11.14	75	115126	21.24	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	115126	57.44	ug/l	# 9
84) 1,2,4-Trimethylbenzene	11.81	105	5502	0.37	ug/l	95
88) 1,4-Dichlorobenzene	12.10	146	529	Below	Cal	# 1
94) Hexachlorobutadiene	13.79	225	166	0.49	ug/l	91

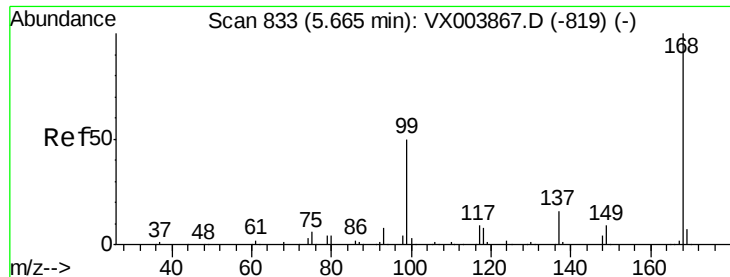
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 07:45:48 2018
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: VX003953.D

Acq: 09 Aug 2018 16:23

Instrument :

MSVOA_X

ClientSampleId :

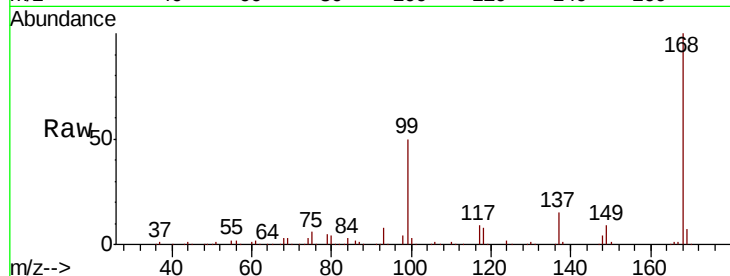
FB-08082018

Tot Ion:168 Resp: 312214

Ion Ratio Lower Upper

168 100

99 50.1 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

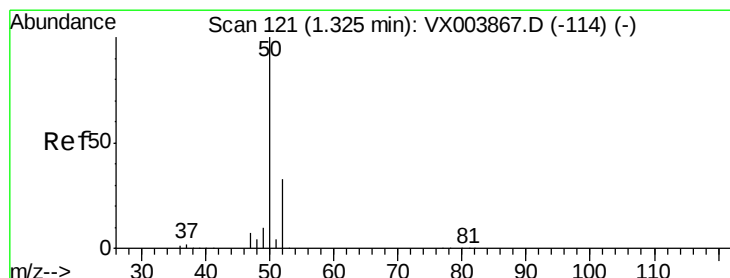
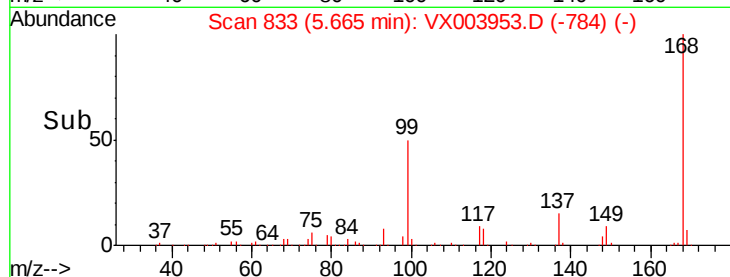
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003953.D

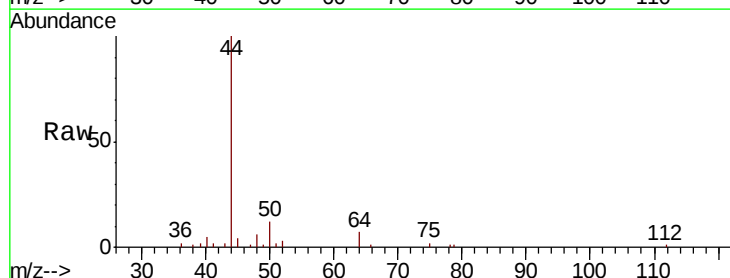
Acq: 09 Aug 2018 16:23

Tgt Ion: 50 Resp: 891

Ion Ratio Lower Upper

50 100

52 25.0 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

800

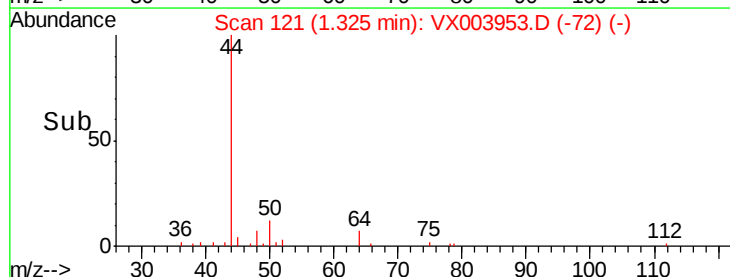
600

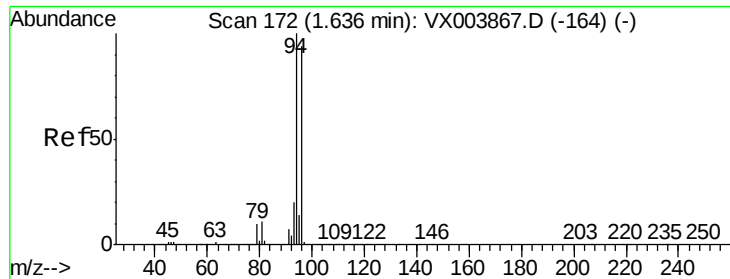
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003953.D

Acq: 09 Aug 2018 16:23

Instrument :

MSVOA_X

ClientSampled :

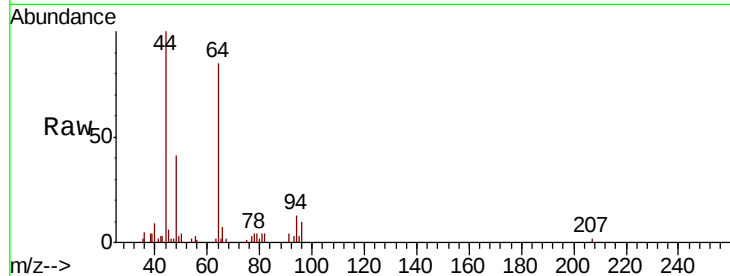
FB-08082018

Tot Ion: 94 Resp: 879

Ion Ratio Lower Upper

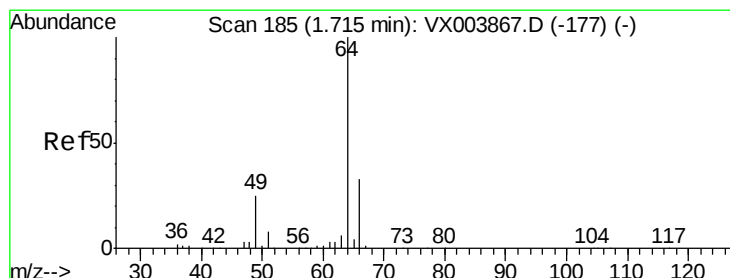
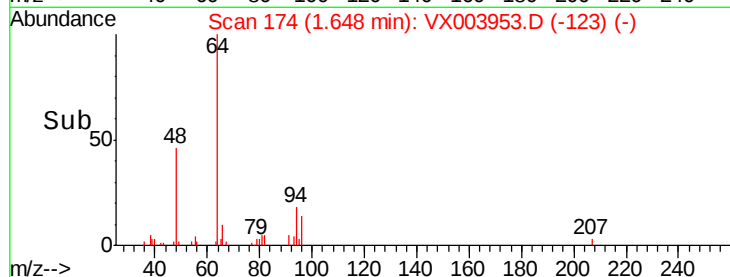
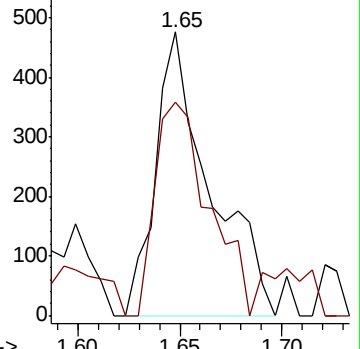
94 100

96 75.2 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: 2.94 ug/l

RT: 1.52 min Scan# 153

Delta R.T. -0.20 min

Lab File: VX003953.D

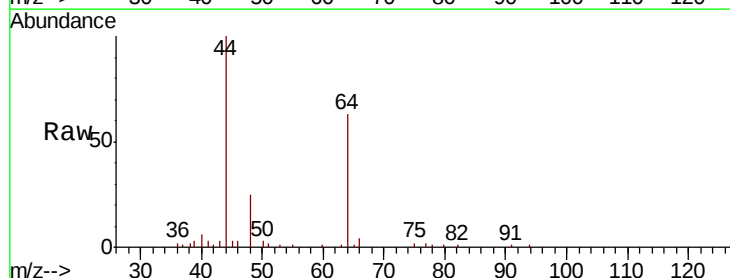
Acq: 09 Aug 2018 16:23

Tgt Ion: 64 Resp: 8084

Ion Ratio Lower Upper

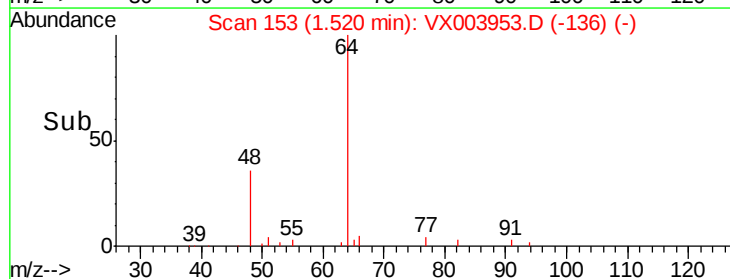
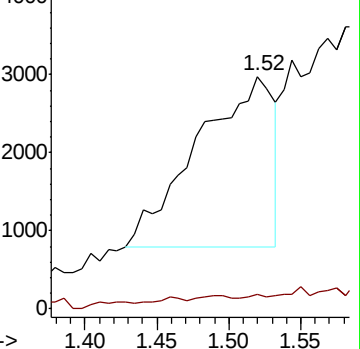
64 100

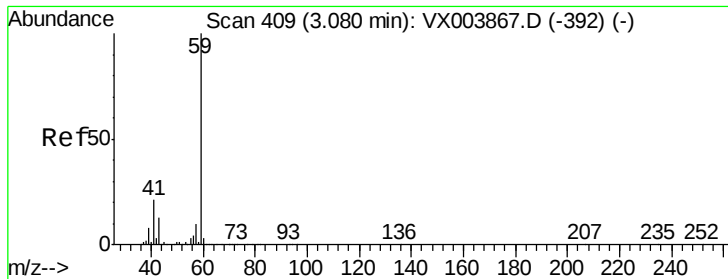
66 4.4 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



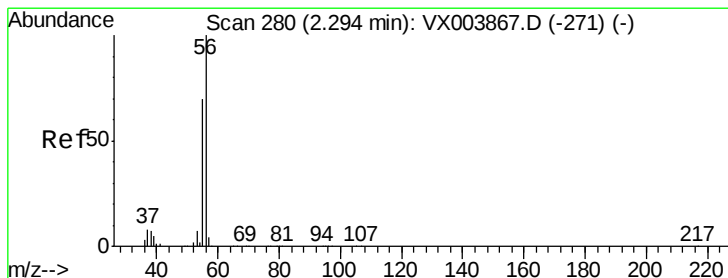
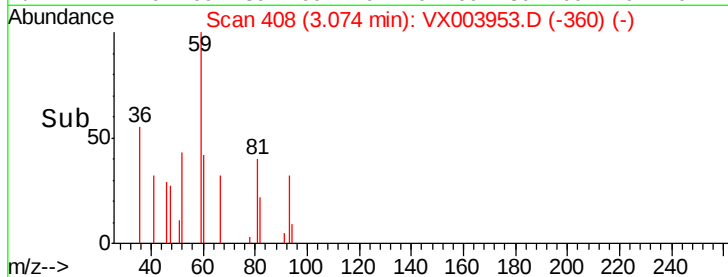
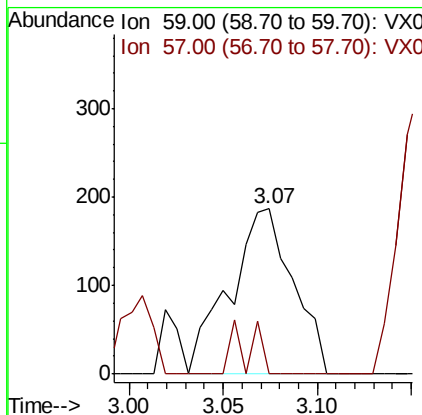
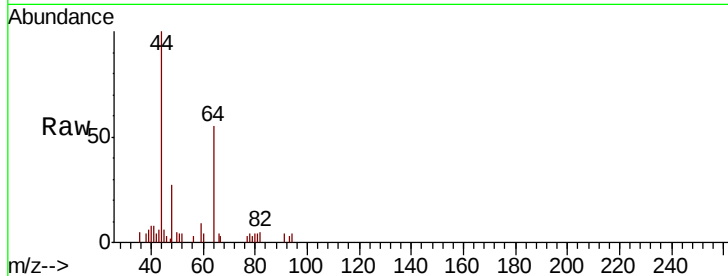


#11

Tert butyl alcohol
 Concen: 0.44 ug/l
 RT: 3.07 min Scan# 408
 Delta R.T. -0.01 min
 Lab File: VX003953.D
 Acq: 09 Aug 2018 16:23

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-08082018

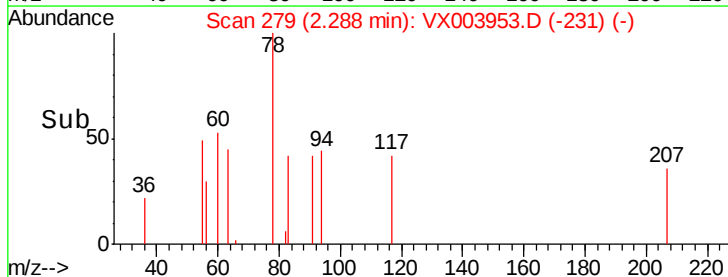
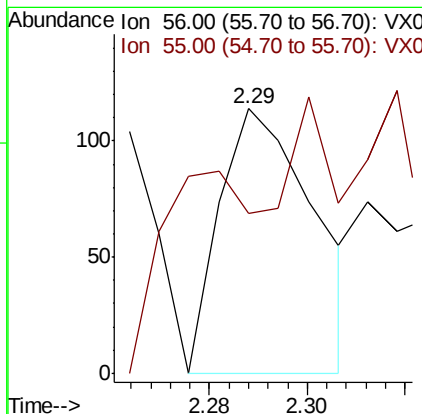
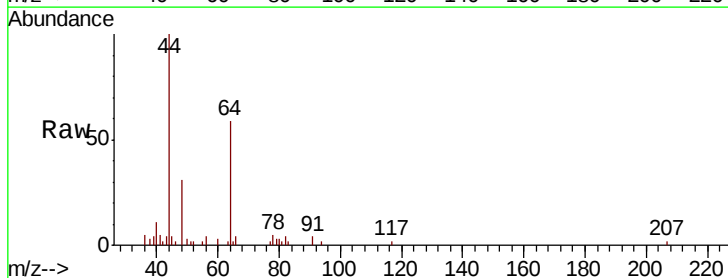
Tot Ion: 59 Resp: 435
 Ion Ratio Lower Upper
 59 100
 57 10.1 8.1 12.1

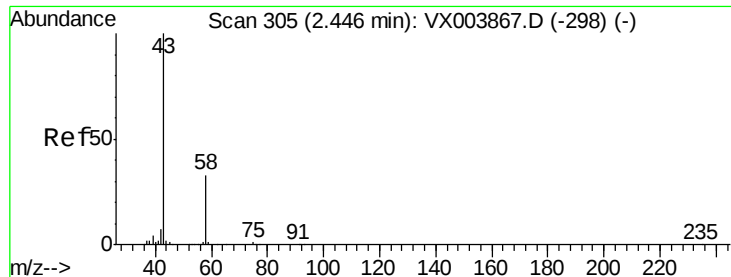


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 279
 Delta R.T. -0.01 min
 Lab File: VX003953.D
 Acq: 09 Aug 2018 16:23

Tgt Ion: 56 Resp: 153
 Ion Ratio Lower Upper
 56 100
 55 71.9 56.1 84.1





#16

Acetone

Concen: 6.24 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003953.D

Acq: 09 Aug 2018 16:23

Instrument :

MSVOA_X

ClientSampled :

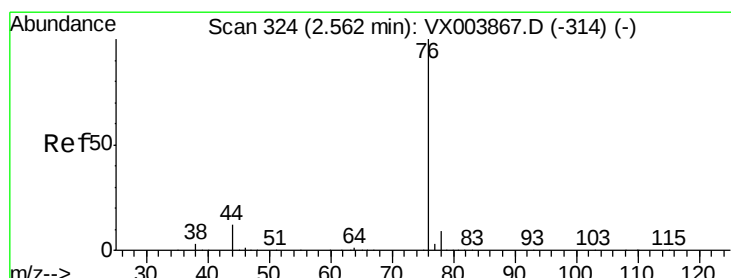
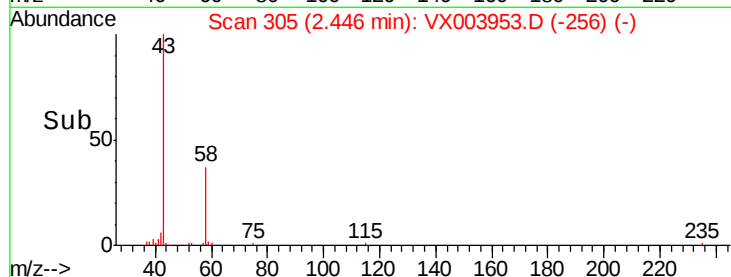
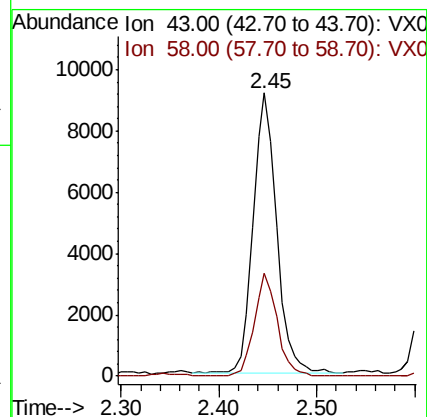
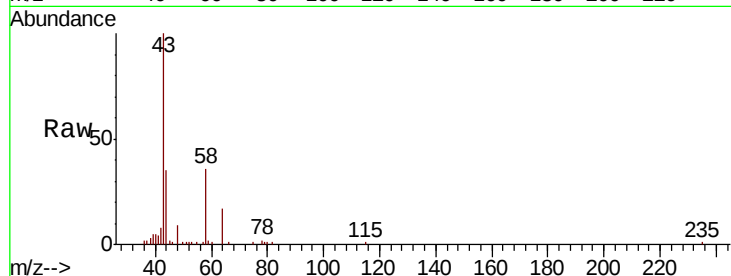
FB-08082018

Tot Ion: 43 Resp: 15369

Ion Ratio Lower Upper

43 100

58 36.7 26.4 39.6



#17

Carbon Disulfide

Concen: 0.54 ug/l

RT: 2.56 min Scan# 324

Delta R.T. 0.00 min

Lab File: VX003953.D

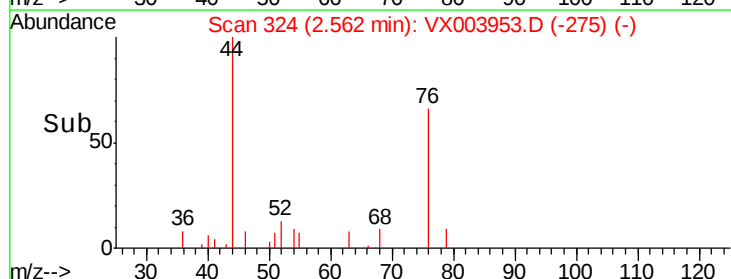
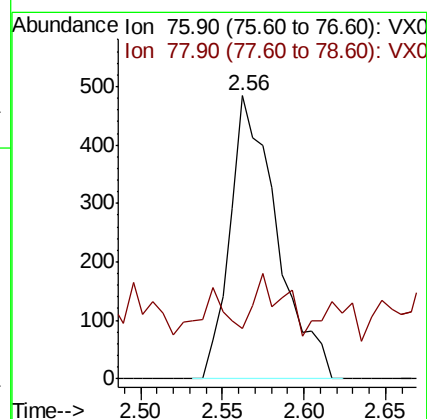
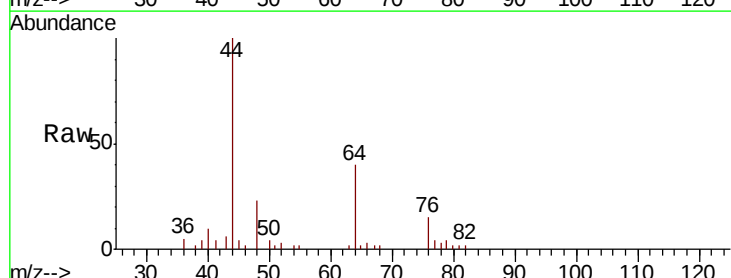
Acq: 09 Aug 2018 16:23

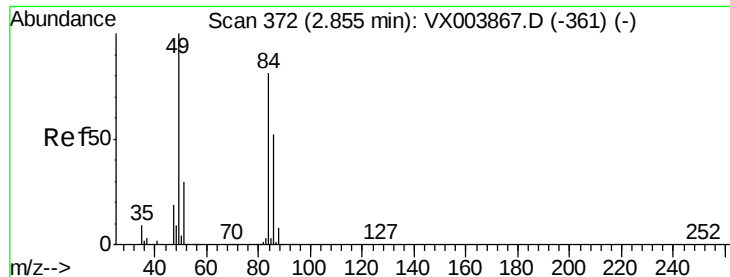
Tgt Ion: 76 Resp: 972

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#

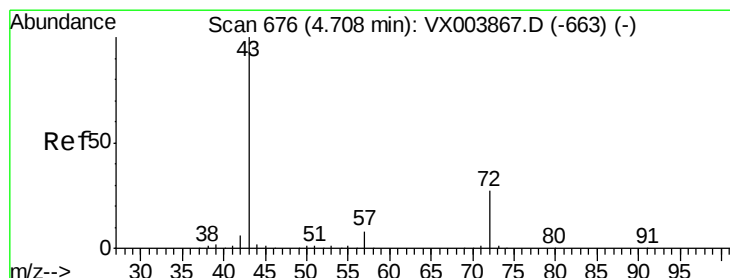
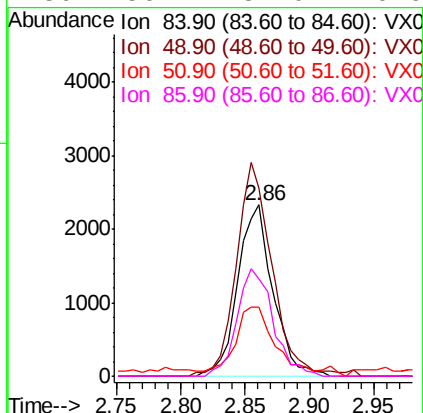
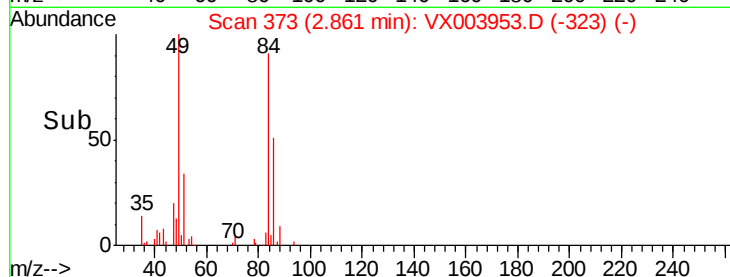
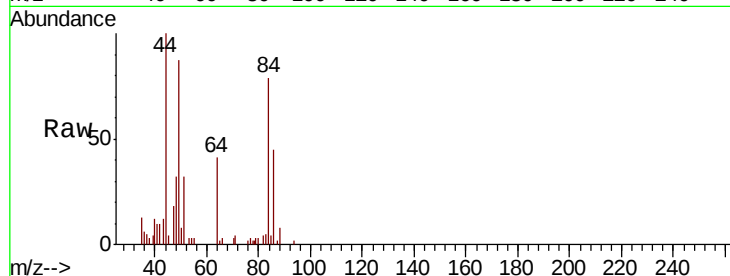




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003953.D
Acq: 09 Aug 2018 16:23

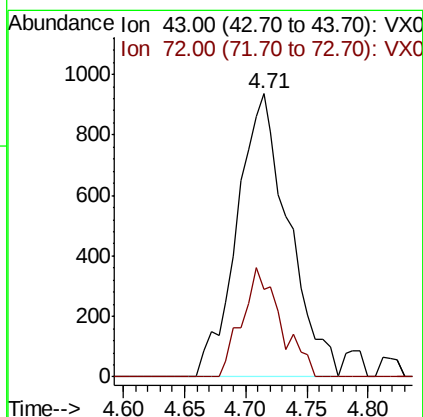
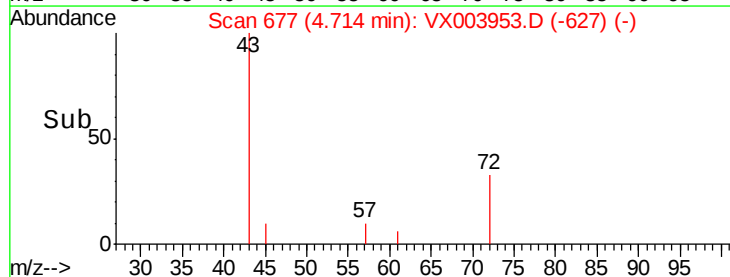
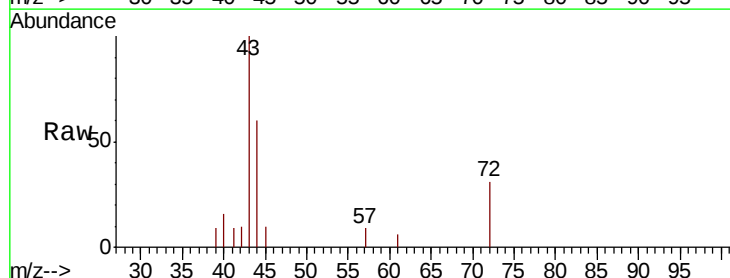
Instrument :
MSVOA_X
ClientSampleId :
FB-08082018

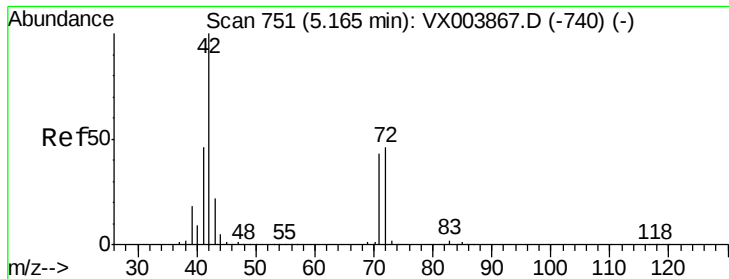
Tot Ion: 84 Resp: 4418
Ion Ratio Lower Upper
84 100
49 110.3 98.9 148.3
51 38.4 29.9 44.9
86 56.7 51.0 76.6



#25
2-Butanone
Concen: 0.74 ug/l
RT: 4.71 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX003953.D
Acq: 09 Aug 2018 16:23

Tgt Ion: 43 Resp: 2741
Ion Ratio Lower Upper
43 100
72 30.8 21.4 32.0





#29

Tetrahydrofuran

Concen: 0.62 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003953.D

Acq: 09 Aug 2018 16:23

Instrument :

MSVOA_X

ClientSampled :

FB-08082018

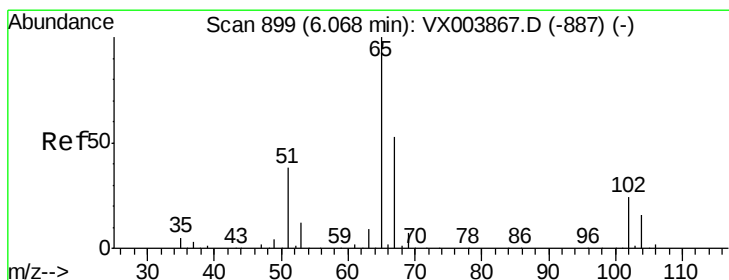
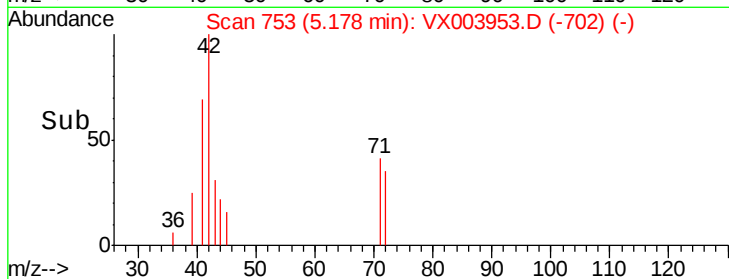
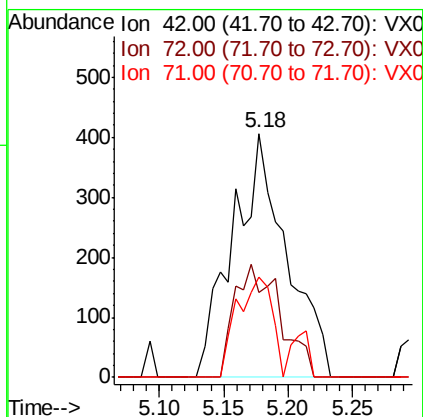
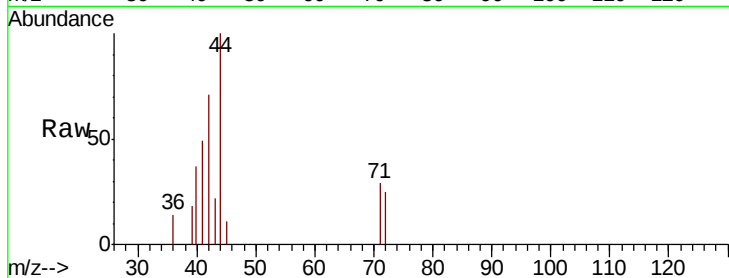
Tot Ion: 42 Resp: 1175

Ion Ratio Lower Upper

42 100

72 39.4 37.7 56.5

71 26.6 35.0 52.6#



#33

1,2-Dichloroethane-d4

Concen: 50.69 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003953.D

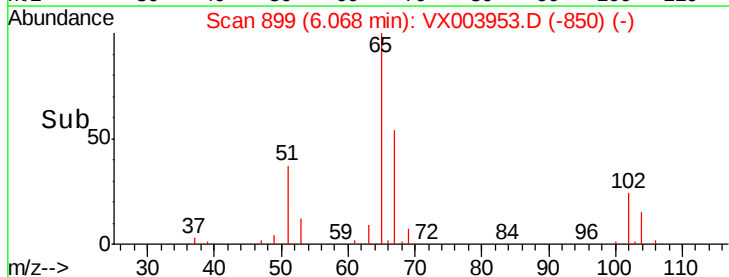
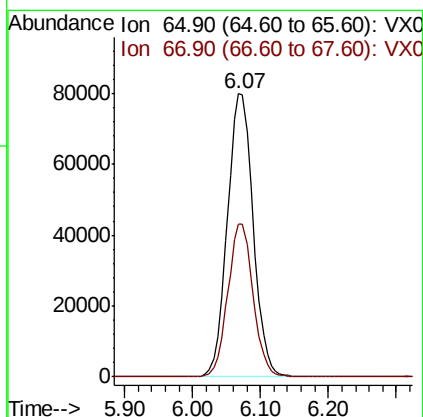
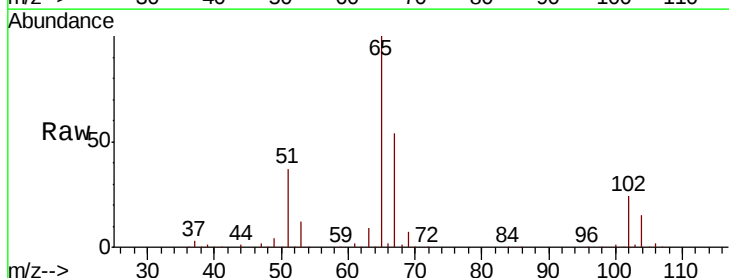
Acq: 09 Aug 2018 16:23

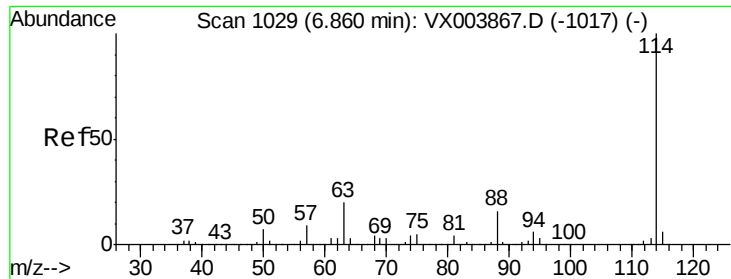
Tgt Ion: 65 Resp: 209787

Ion Ratio Lower Upper

65 100

67 53.0 0.0 105.8

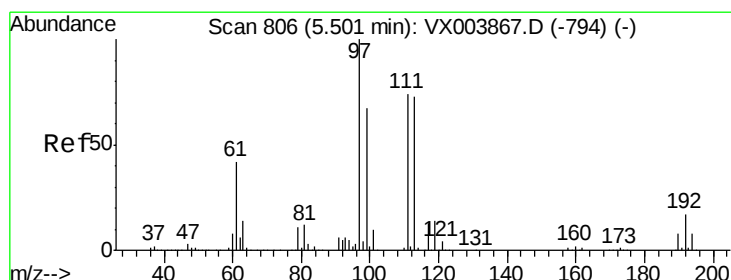
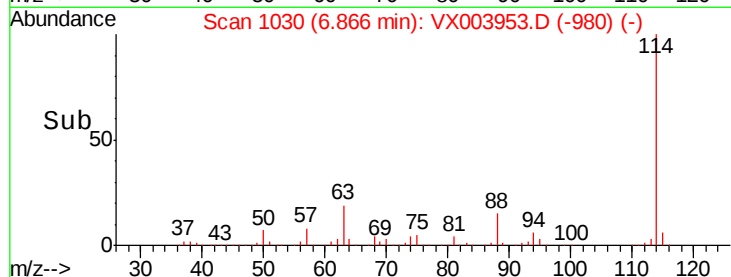
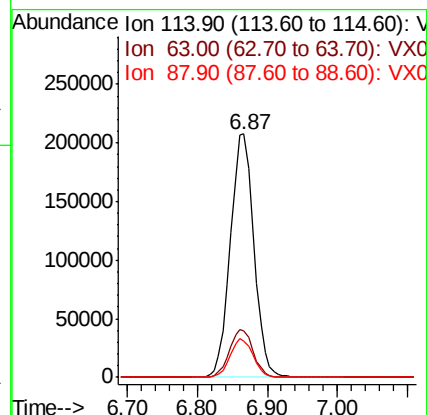
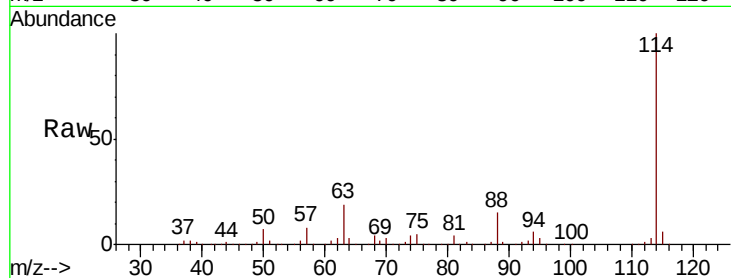




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VX003953.D
 Acq: 09 Aug 2018 16:23

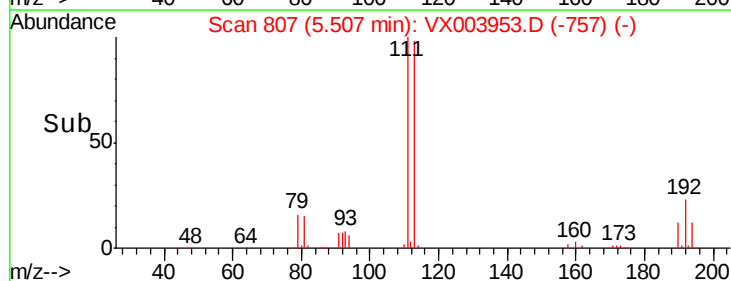
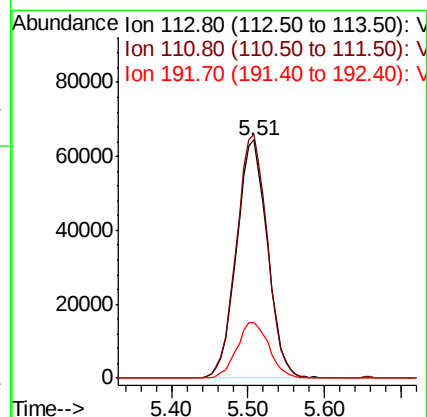
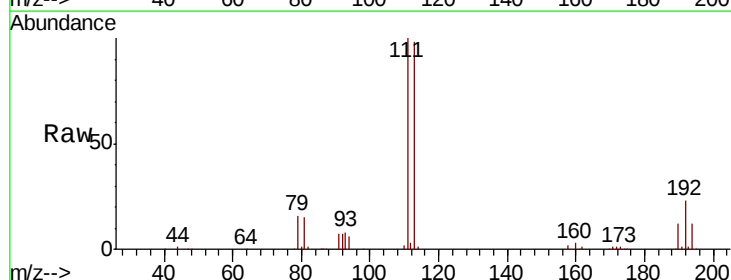
Instrument :
 MSVOA_X
 ClientSampled :
 FB-08082018

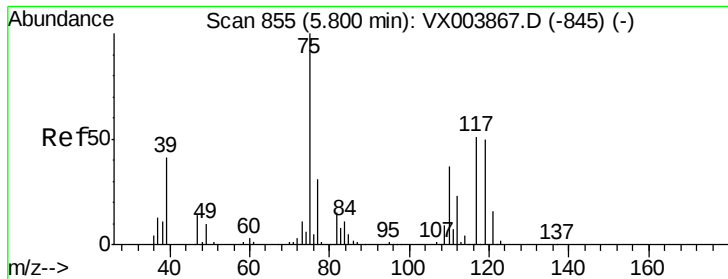
Tot Ion:114 Resp: 487077
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.0
 88 14.7 0.0 32.0



#35
 Dibromofluoromethane
 Concen: 48.84 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX003953.D
 Acq: 09 Aug 2018 16:23

Tgt Ion:113 Resp: 180219
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.0 123.0
 192 24.2 19.0 28.4





#36

1,1-Dichloropropene

Concen: 3.80 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX003953.D

Acq: 09 Aug 2018 16:23

Instrument :

MSVOA_X

ClientSampleId :

FB-08082018

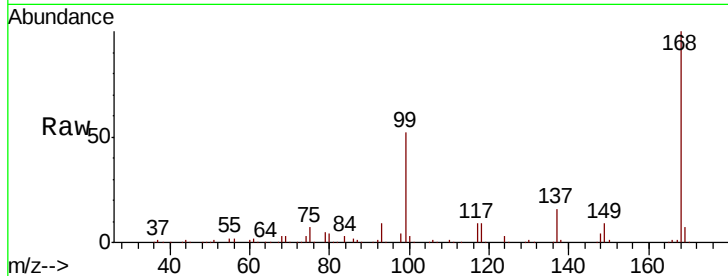
Tot Ion: 75 Resp: 20752

Ion Ratio Lower Upper

75 100

110 9.1 18.2 54.6#

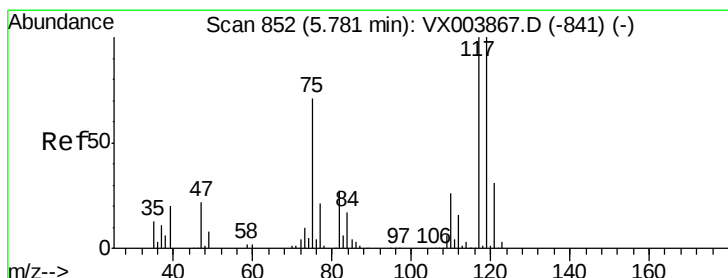
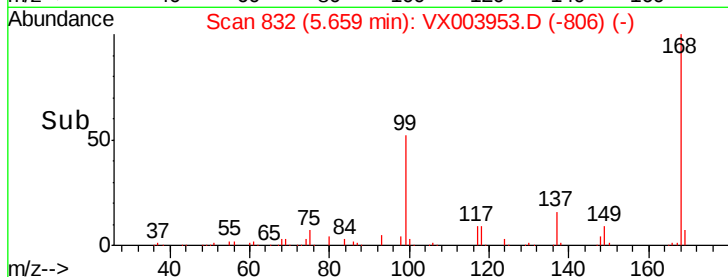
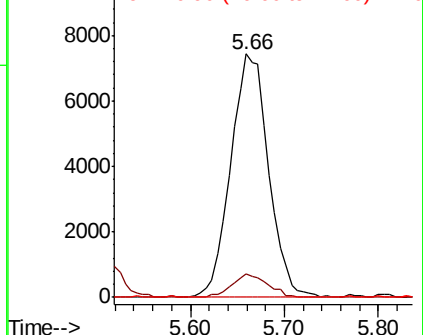
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.29 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003953.D

Acq: 09 Aug 2018 16:23

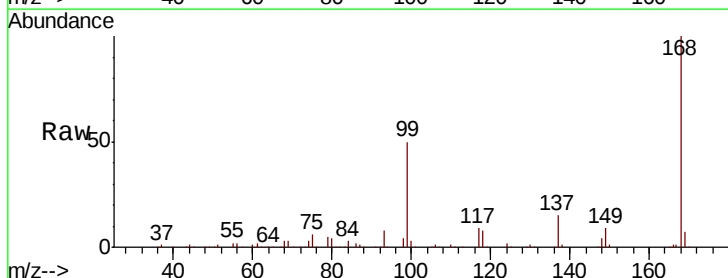
Tgt Ion: 117 Resp: 27451

Ion Ratio Lower Upper

117 100

119 5.5 79.5 119.3#

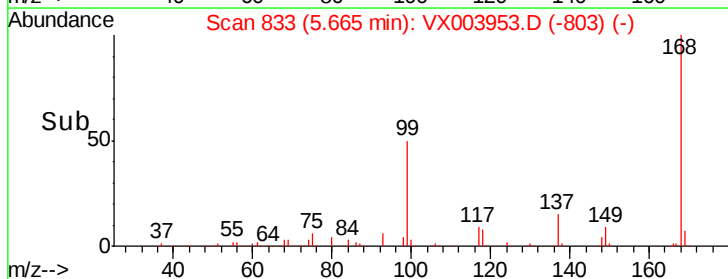
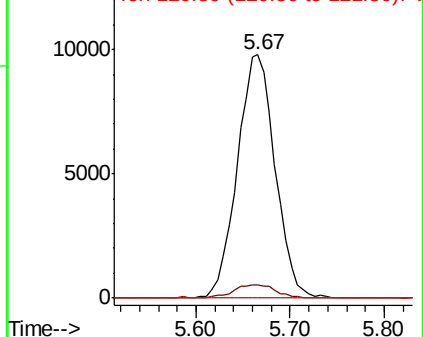
121 0.0 25.0 37.4#

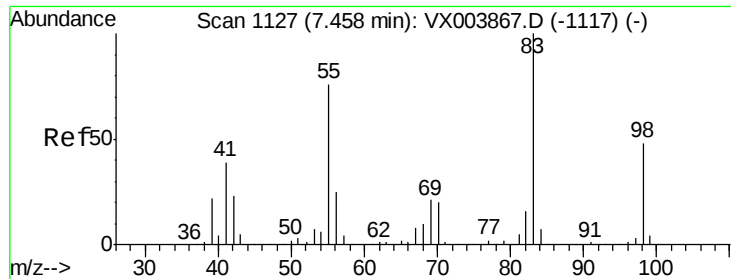


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

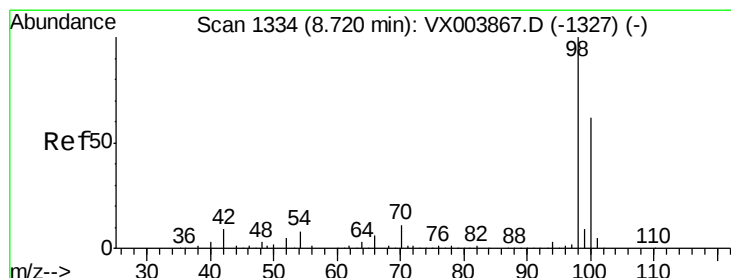
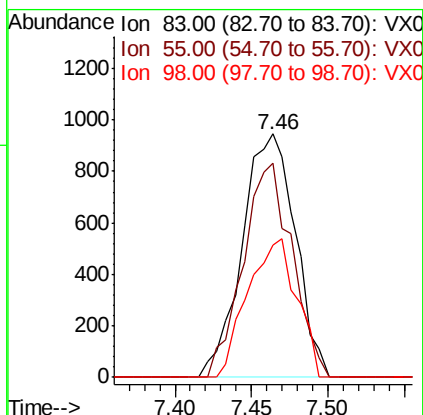
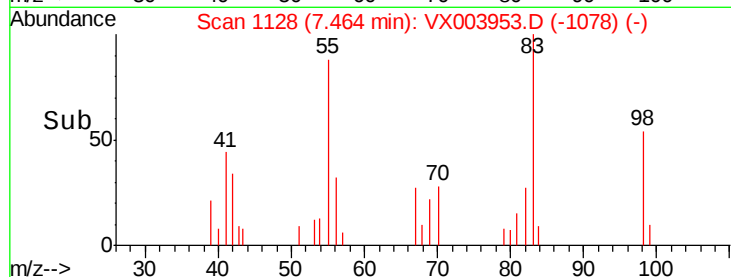
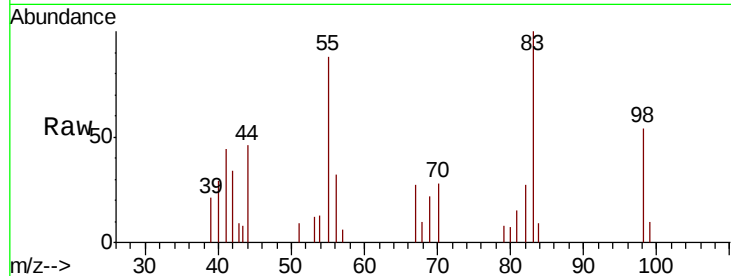




#39
Methylcyclohexane
Concen: 0.35 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VX003953.D
Acq: 09 Aug 2018 16:23

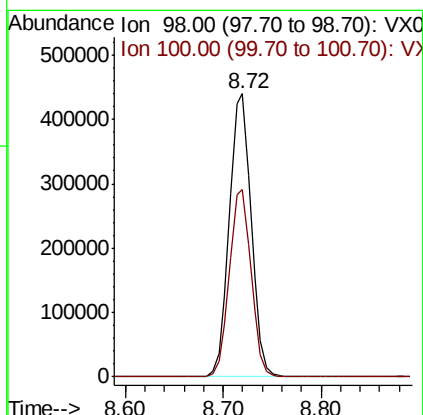
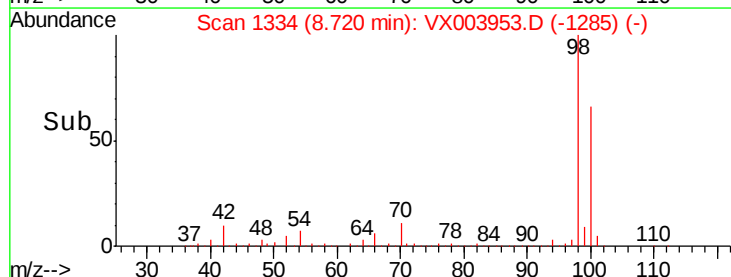
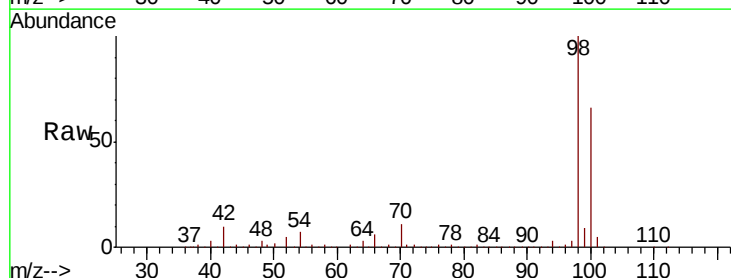
Instrument :
MSVOA_X
ClientSampled :
FB-08082018

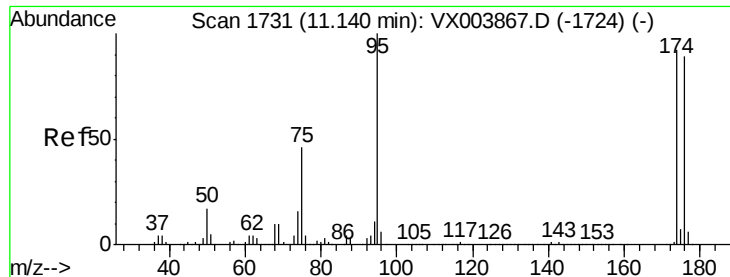
Tot Ion: 83 Resp: 2275
Ion Ratio Lower Upper
83 100
55 87.7 61.0 91.6
98 54.3 38.6 57.8



#50
Toluene-d8
Concen: 47.57 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003953.D
Acq: 09 Aug 2018 16:23

Tgt Ion: 98 Resp: 682608
Ion Ratio Lower Upper
98 100
100 65.9 53.3 79.9

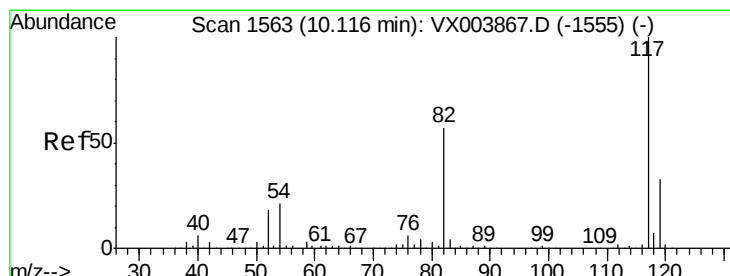
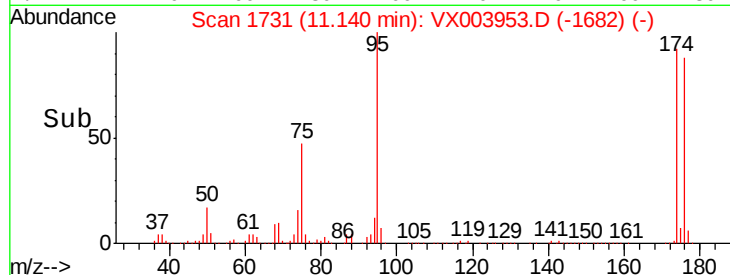
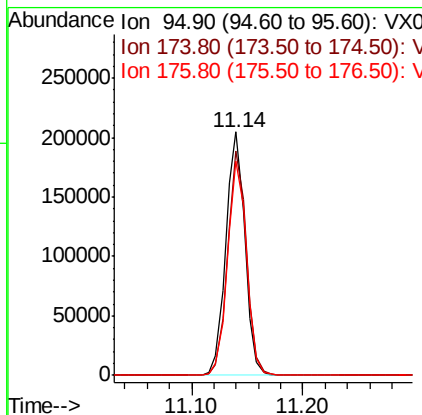
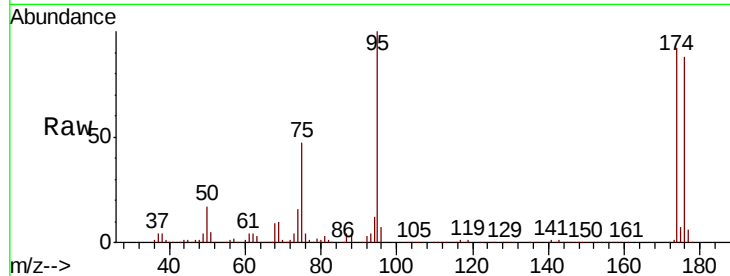




#62
4-Bromofluorobenzene
Concen: 52.06 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003953.D
Acq: 09 Aug 2018 16:23

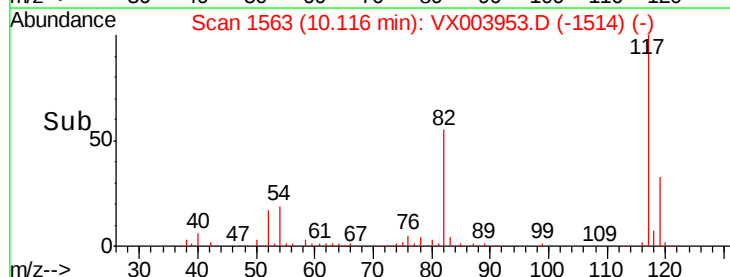
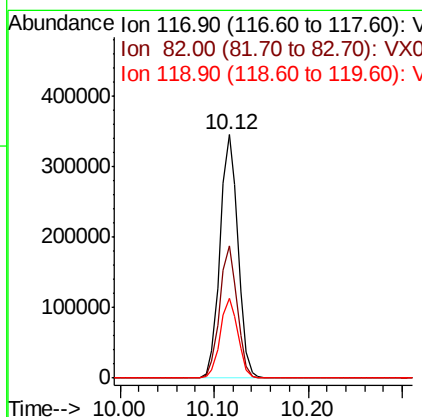
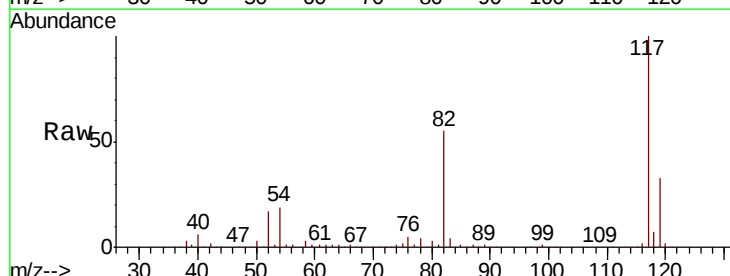
Instrument :
MSVOA_X
ClientSampled :
FB-08082018

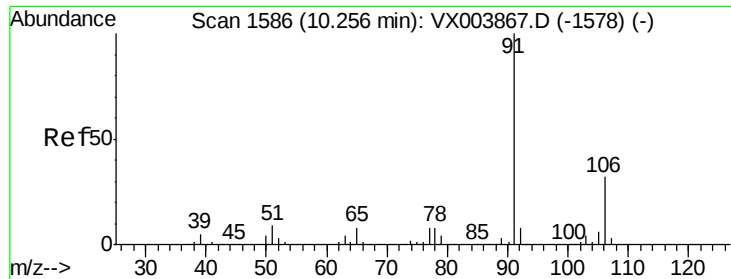
Tot Ion: 95 Resp: 241726
Ion Ratio Lower Upper
95 100
174 91.3 0.0 182.8
176 87.8 0.0 179.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003953.D
Acq: 09 Aug 2018 16:23

Tgt Ion: 117 Resp: 455139
Ion Ratio Lower Upper
117 100
82 54.5 45.4 68.0
119 33.0 26.6 40.0

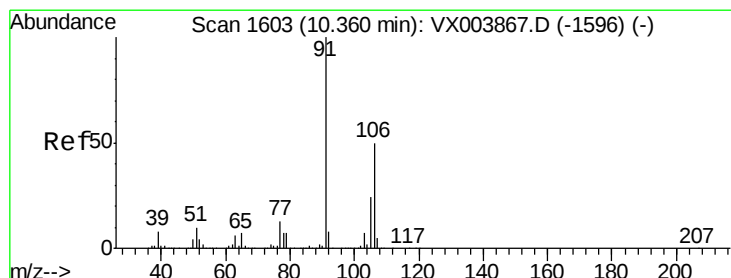
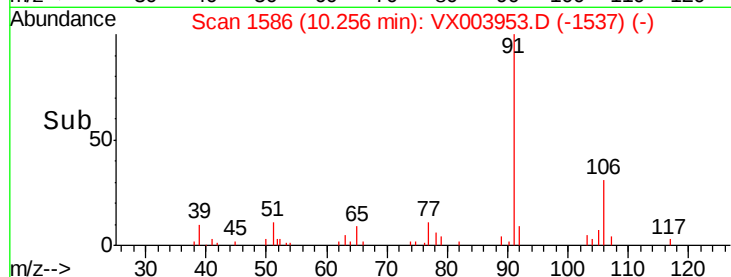
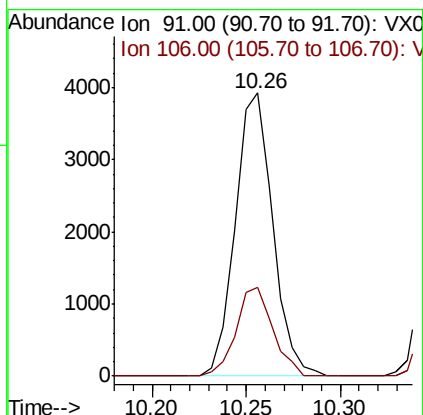
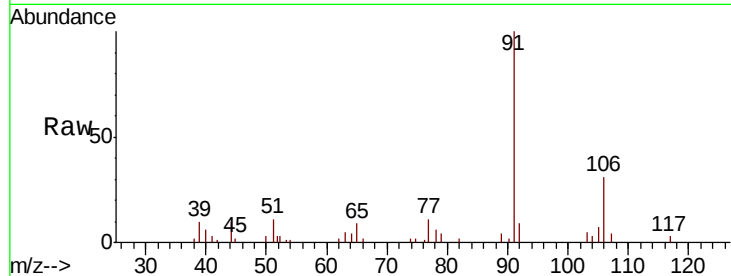




#67
Ethyl Benzene
Concen: 0.28 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX003953.D
Acq: 09 Aug 2018 16:23

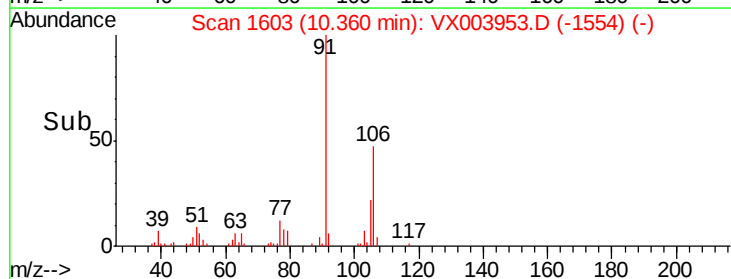
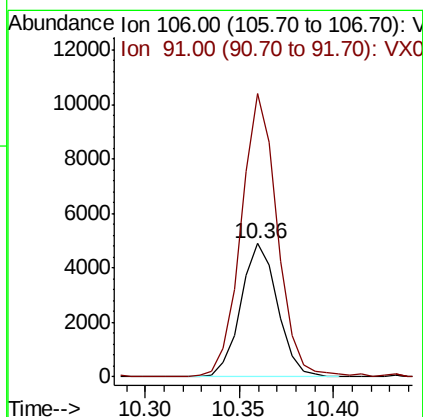
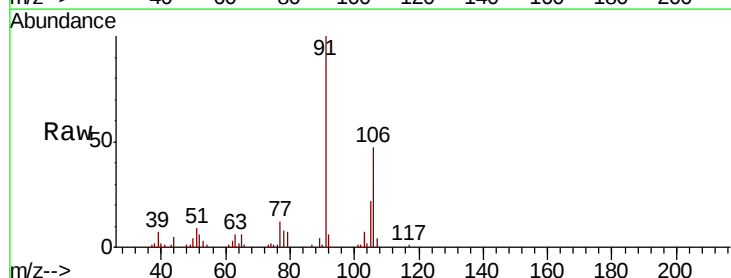
Instrument :
MSVOA_X
ClientSampleId :
FB-08082018

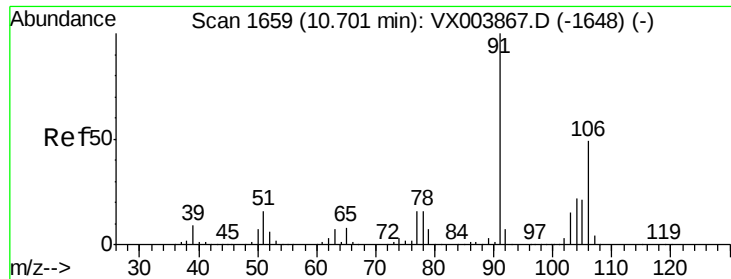
Tot Ion: 91 Resp: 5398
Ion Ratio Lower Upper
91 100
106 31.4 25.9 38.9



#68
m/p-Xylenes
Concen: 0.87 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VX003953.D
Acq: 09 Aug 2018 16:23

Tgt Ion: 106 Resp: 6608
Ion Ratio Lower Upper
106 100
91 209.7 162.3 243.5

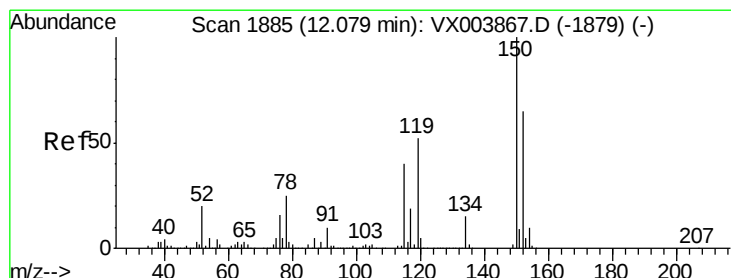
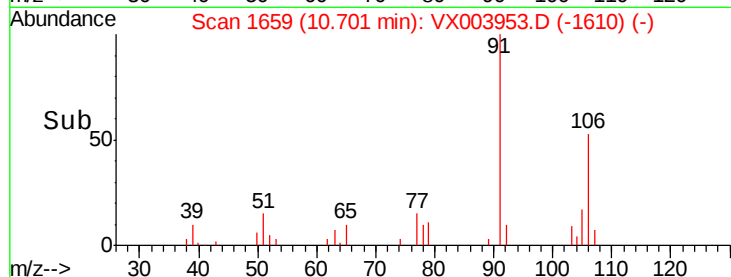
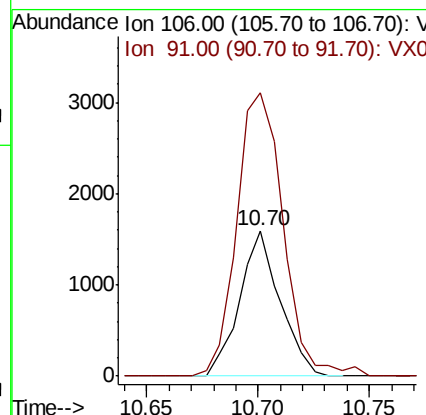
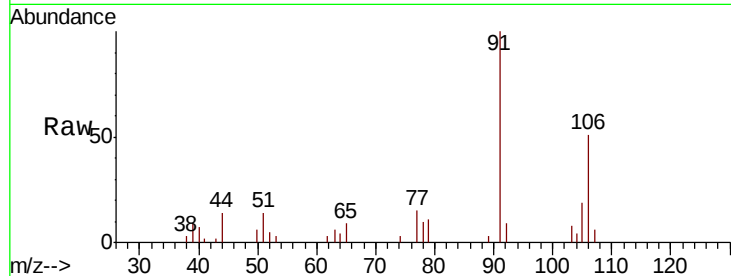




#69
o-Xylene
Concen: 0.28 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. 0.00 min
Lab File: VX003953.D
Acq: 09 Aug 2018 16:23

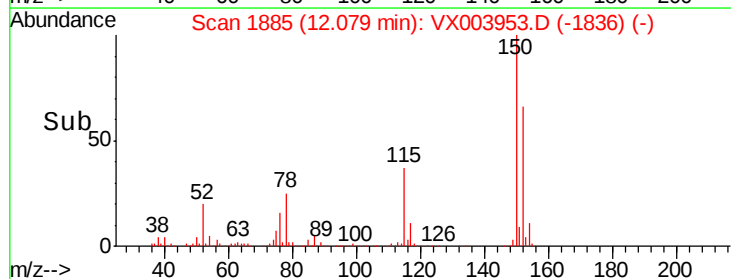
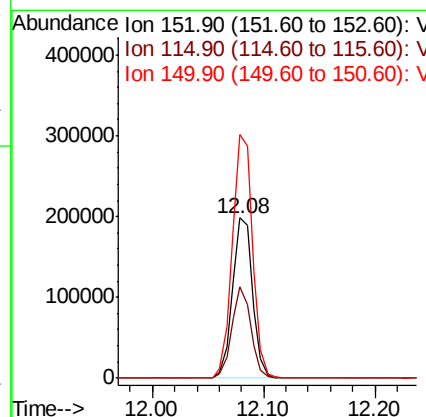
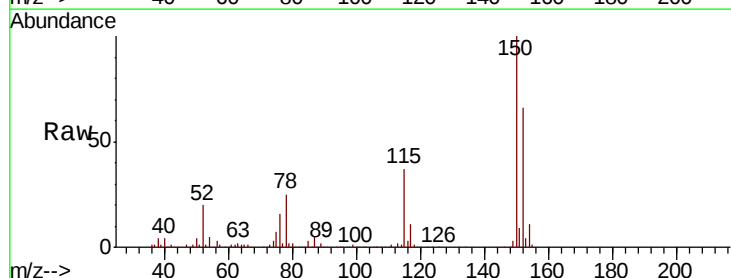
Instrument :
MSVOA_X
ClientSampled :
FB-08082018

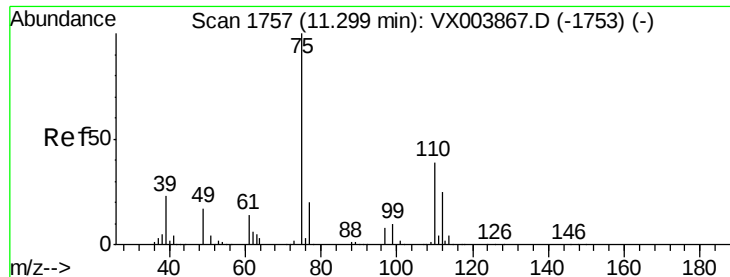
Tot Ion:106 Resp: 2014
Ion Ratio Lower Upper
106 100
91 224.5 101.9 305.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003953.D
Acq: 09 Aug 2018 16:23

Tgt Ion:152 Resp: 245386
Ion Ratio Lower Upper
152 100
115 54.3 39.1 117.3
150 153.9 0.0 349.2

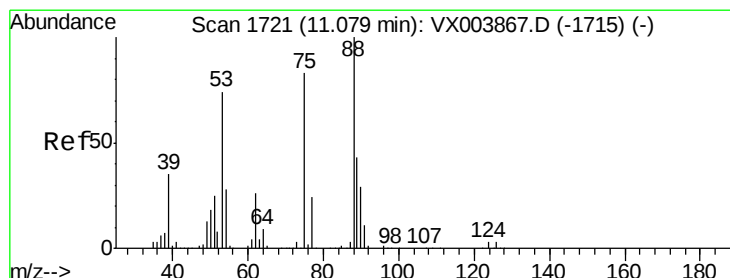
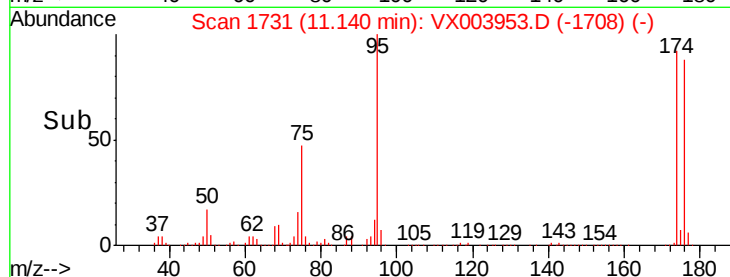
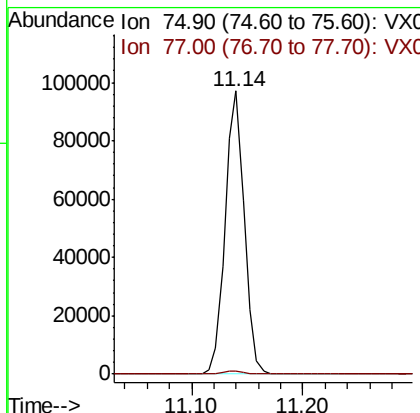
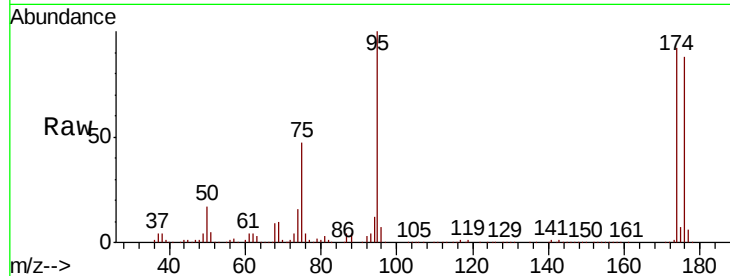




#76
 1,2,3-Trichloropropane
 Concen: 21.24 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003953.D
 Acq: 09 Aug 2018 16:23

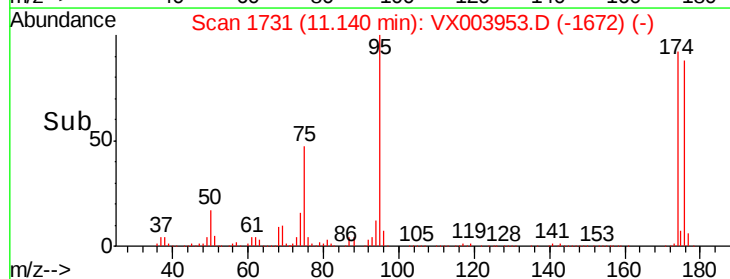
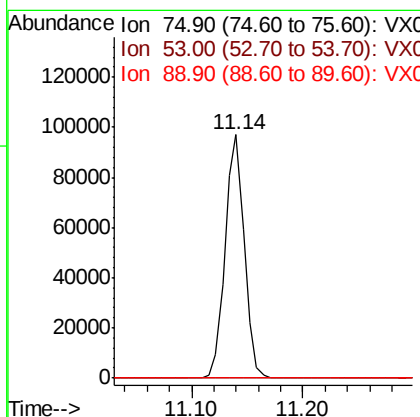
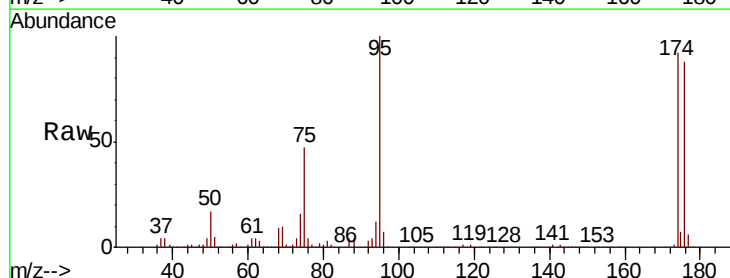
Instrument :
 MSVOA_X
 ClientSampled :
 FB-08082018

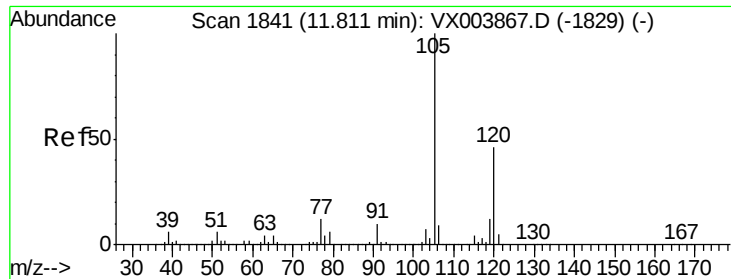
Tot Ion: 75 Resp: 115126
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.8 62.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.44 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003953.D
 Acq: 09 Aug 2018 16:23

Tgt Ion: 75 Resp: 115126
 Ion Ratio Lower Upper
 75 100
 53 0.1 80.3 120.5#
 89 0.0 37.8 56.8#

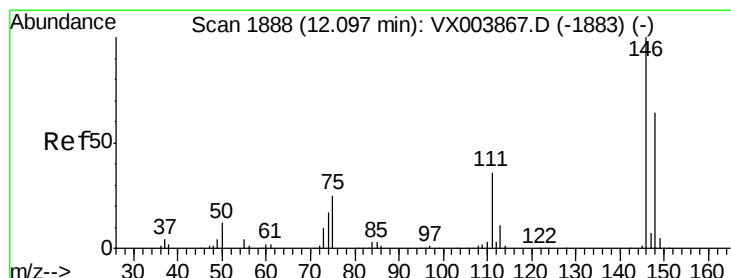
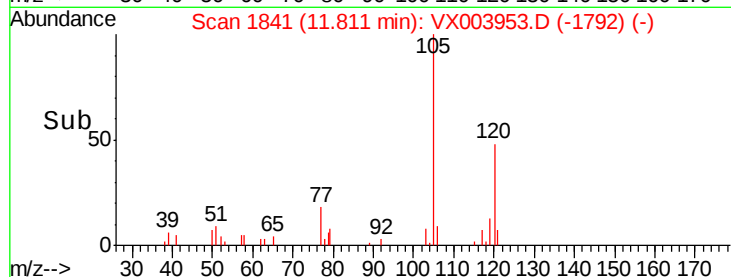
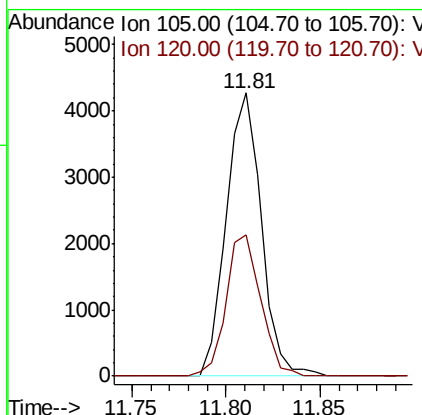
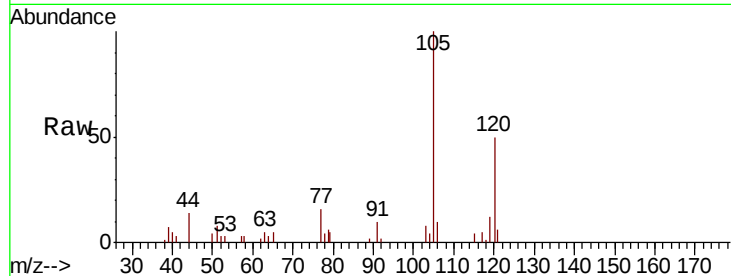




#84
 1,2,4-Trimethylbenzene
 Concen: 0.37 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX003953.D
 Acq: 09 Aug 2018 16:23

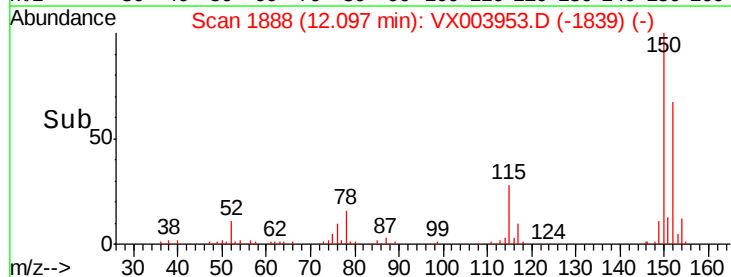
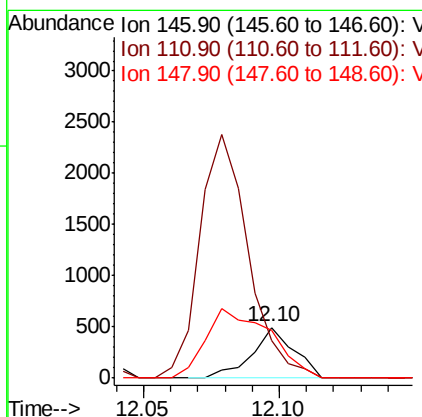
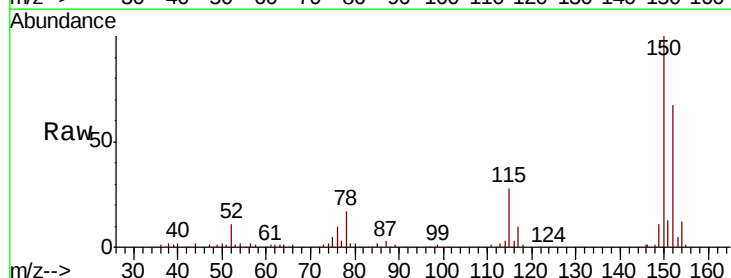
Instrument :
 MSVOA_X
 ClientSampleID :
 FB-08082018

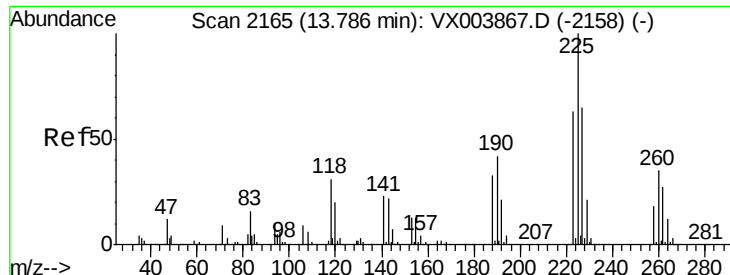
Tot Ion:105 Resp: 5502
 Ion Ratio Lower Upper
 105 100
 120 49.3 23.1 69.2



#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 12.10 min Scan# 1888
 Delta R.T. 0.00 min
 Lab File: VX003953.D
 Acq: 09 Aug 2018 16:23

Tgt Ion:146 Resp: 529
 Ion Ratio Lower Upper
 146 100
 111 557.3 18.4 55.0#
 148 209.8 32.3 96.8#





#94

Hexachlorobutadiene

Concen: 0.49 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003953.D

Acq: 09 Aug 2018 16:23

Instrument :

MSVOA_X

ClientSampleId :

FB-08082018

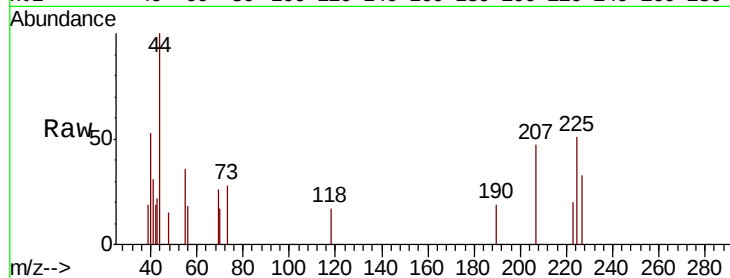
Tot Ion:225 Resp: 166

Ion Ratio Lower Upper

225 100

223 59.0 31.4 94.0

227 53.6 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

