

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080118\
 Data File : VX003808.D
 Acq On : 01 Aug 2018 21:20
 Operator : JC/SP
 Sample : J4121-06RE
 Misc : 10.80G/5.0mL/MSVOA X/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 02 05:57:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 11:17:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	105388	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	155384	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	121396	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	41576	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	49982	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	
35) Dibromofluoromethane	5.51	113	45891	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
50) Toluene-d8	8.72	98	158992	41.68	ug/l	0.00
Spiked Amount			Recovery	=	83.36%	
62) 4-Bromofluorobenzene	11.14	95	39947	28.40	ug/l	0.00
Spiked Amount			Recovery	=	56.80%	

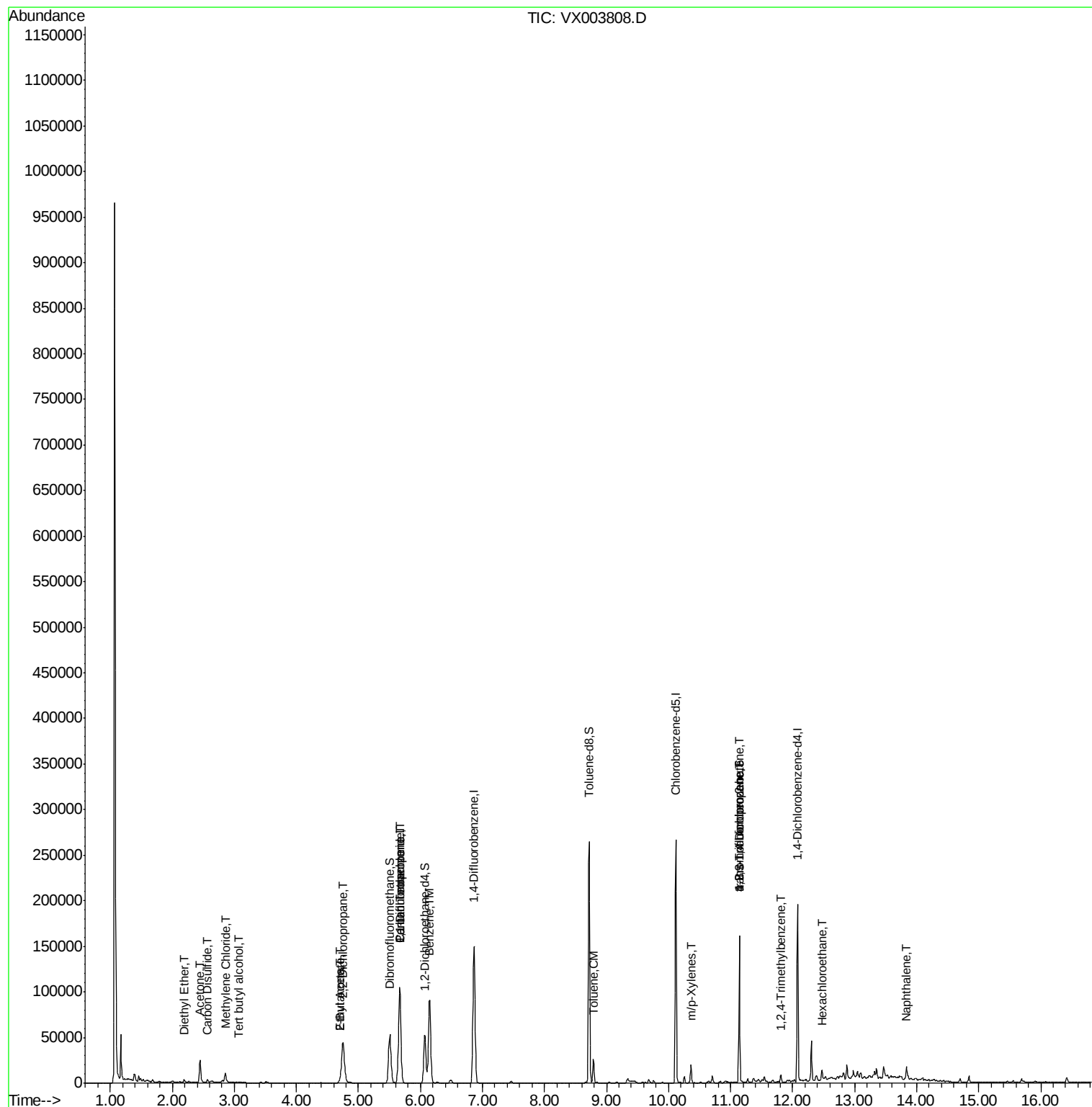
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	66	Below Cal		89
8) Diethyl Ether	2.19	74	841	1.41	ug/l	79
11) Tert butyl alcohol	3.08	59	625	3.62	ug/l #	73
16) Acetone	2.45	43	24901	61.16	ug/l	99
17) Carbon Disulfide	2.57	76	3936	1.28	ug/l #	92
20) Methylene Chloride	2.86	84	4679	1.26	ug/l	98
25) 2-Butanone	4.70	43	7749	13.06	ug/l	98
26) 2,2-Dichloropropane	4.75	77	3578	2.58	ug/l #	51
36) 1,1-Dichloropropene	5.67	75	7197	4.95	ug/l #	48
37) Ethyl Acetate	4.70	43	7749	6.93	ug/l #	68
38) Carbon Tetrachloride	5.67	117	9283	6.90	ug/l #	17
40) Benzene	6.15	78	110359	26.46	ug/l	97
52) Toluene	8.79	92	9342	3.59	ug/l	99
68) m/p-Xylenes	10.36	106	4096	2.44	ug/l	92
76) 1,2,3-Trichloropropane	11.14	75	19438	33.92	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.14	75	19438	100.47	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	2710	1.19	ug/l	99
90) Hexachloroethane	12.47	117	451	1.19	ug/l #	1
95) Naphthalene	13.83	128	7188	3.32	ug/l	97

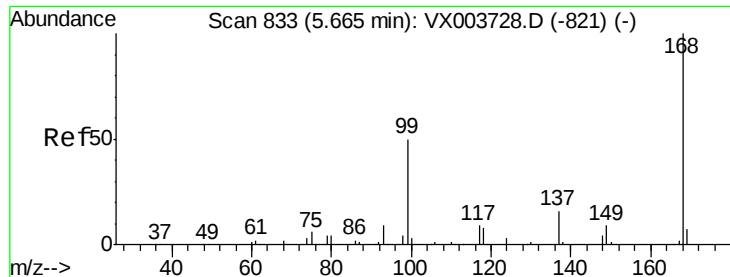
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003808.D

Acq: 01 Aug 2018 21:20

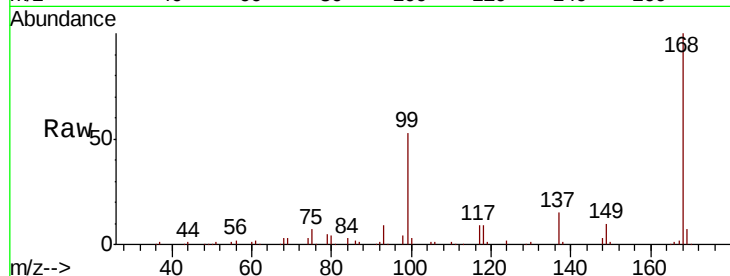
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 105388

Ion Ratio Lower Upper

168 100

99 52.5 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

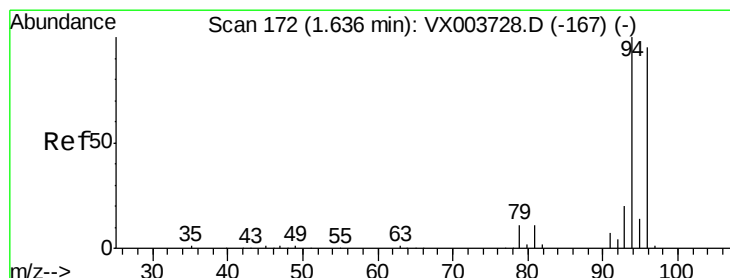
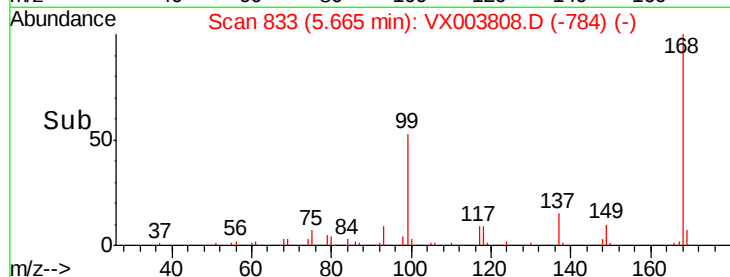
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003808.D

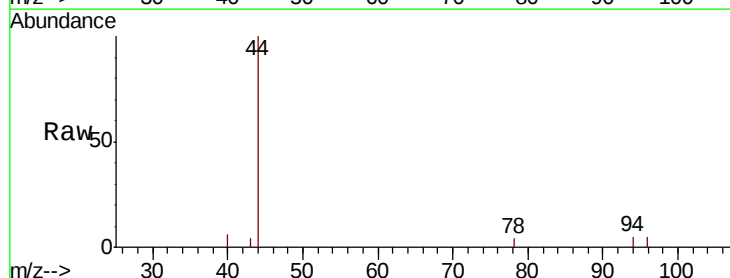
Acq: 01 Aug 2018 21:20

Tgt Ion: 94 Resp: 66

Ion Ratio Lower Upper

94 100

96 106.1 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

80

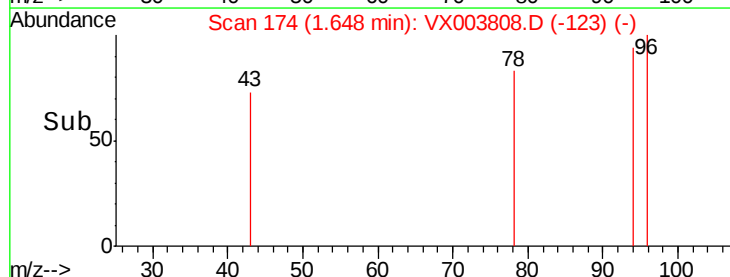
60

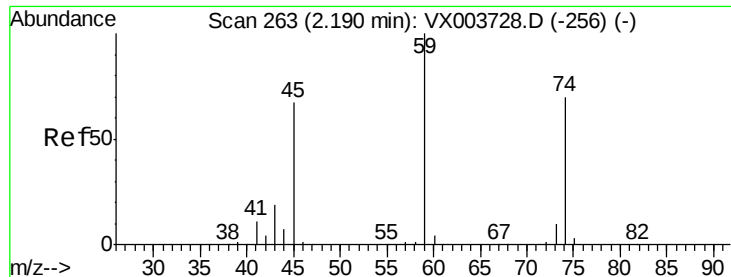
40

20

0

Time--> 1.62 1.64 1.66





#8

Diethyl Ether

Concen: 1.41 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003808.D

Acq: 01 Aug 2018 21:20

Instrument :

MSVOA_X

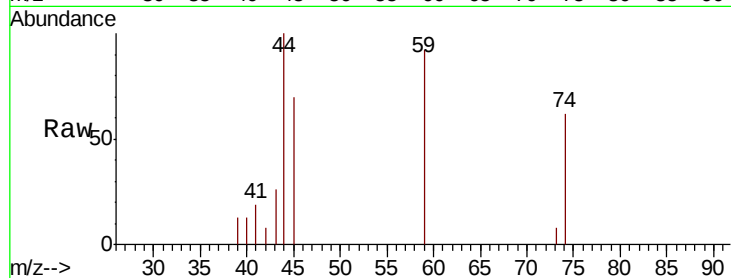
ClientSampled :

Tot Ion: 74 Resp: 841

Ion Ratio Lower Upper

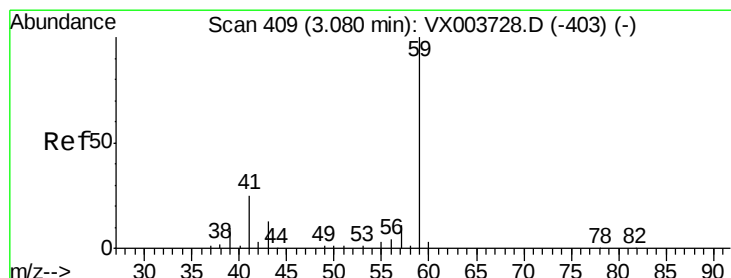
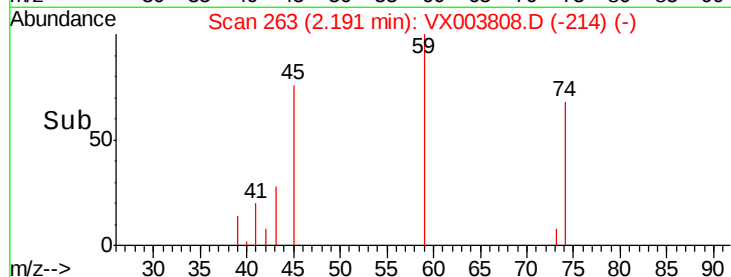
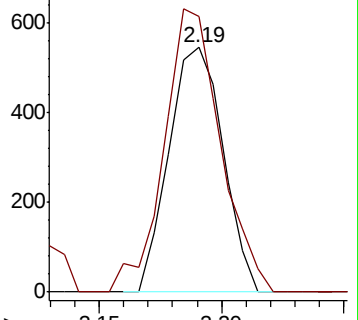
74 100

45 120.3 49.5 148.7



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 3.62 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.00 min

Lab File: VX003808.D

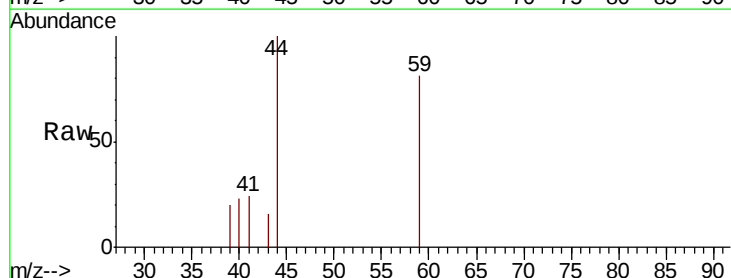
Acq: 01 Aug 2018 21:20

Tgt Ion: 59 Resp: 625

Ion Ratio Lower Upper

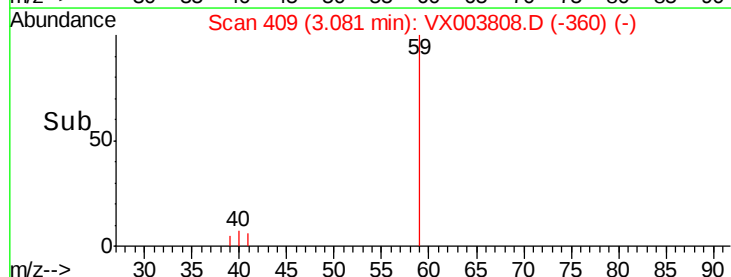
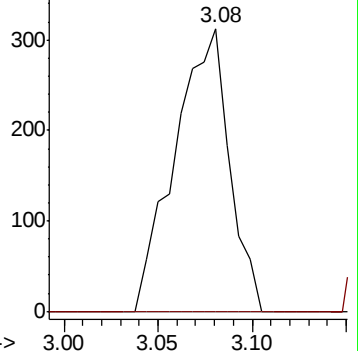
59 100

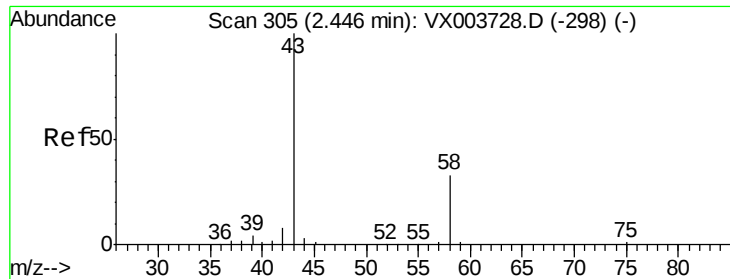
57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 61.16 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003808.D

Acq: 01 Aug 2018 21:20

Instrument :

MSVOA_X

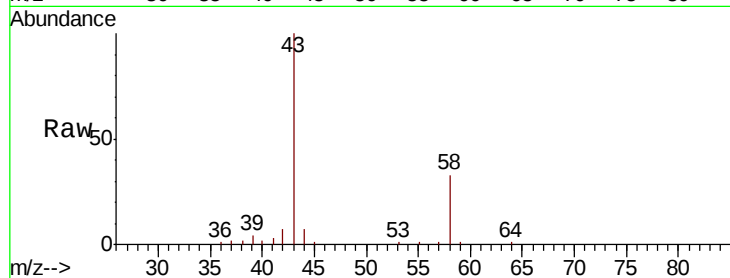
ClientSampleId :

Tot Ion: 43 Resp: 24901

Ion Ratio Lower Upper

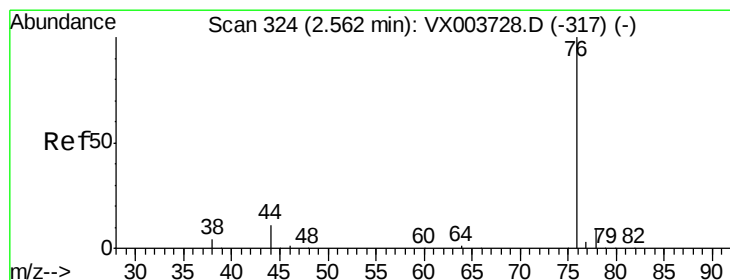
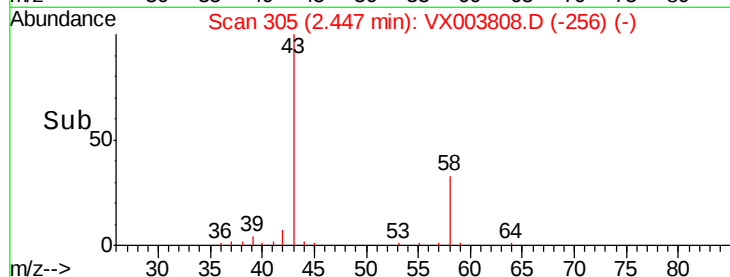
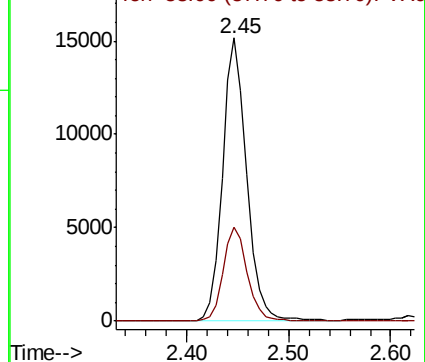
43 100

58 33.1 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.28 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003808.D

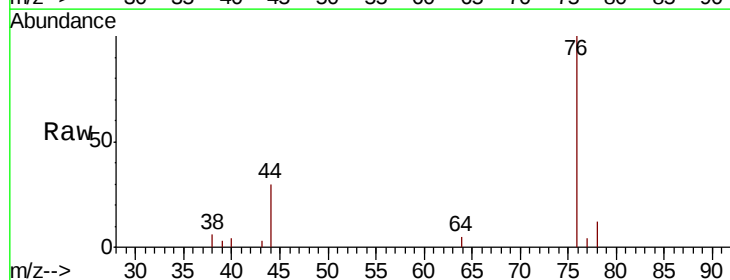
Acq: 01 Aug 2018 21:20

Tgt Ion: 76 Resp: 3936

Ion Ratio Lower Upper

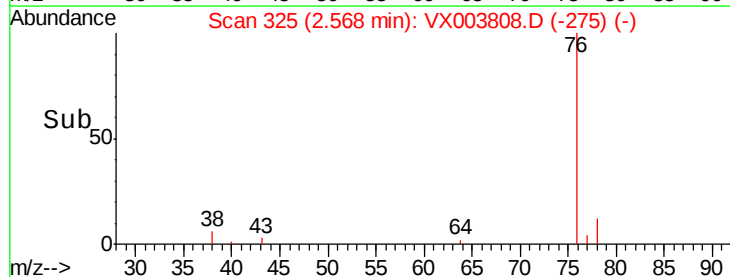
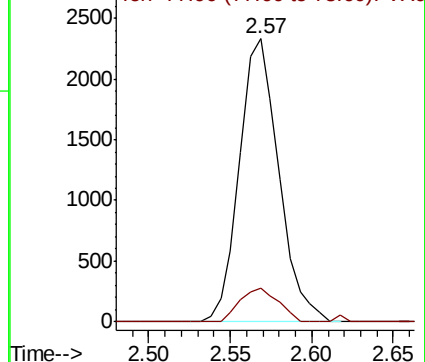
76 100

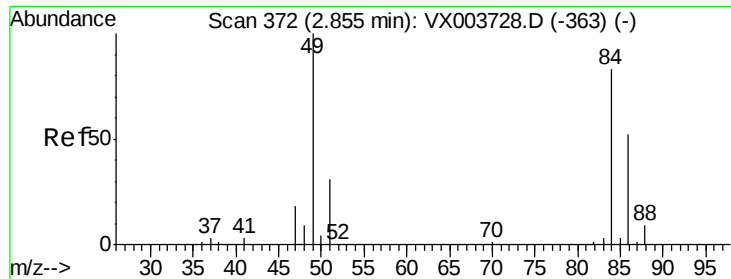
78 11.8 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

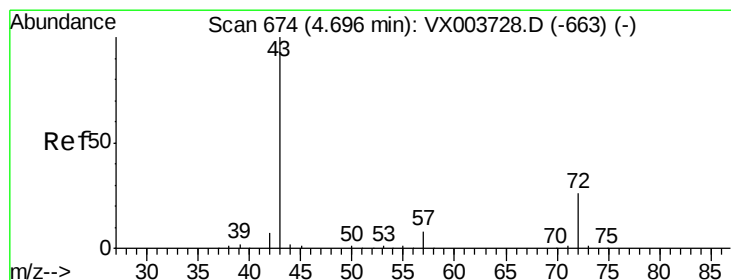
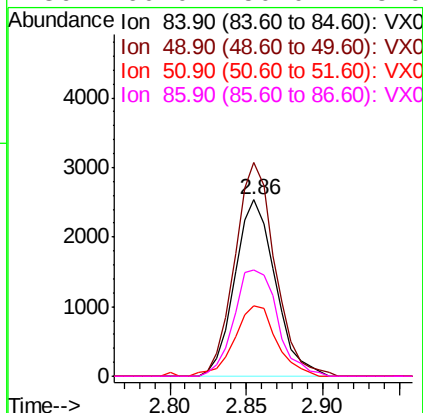
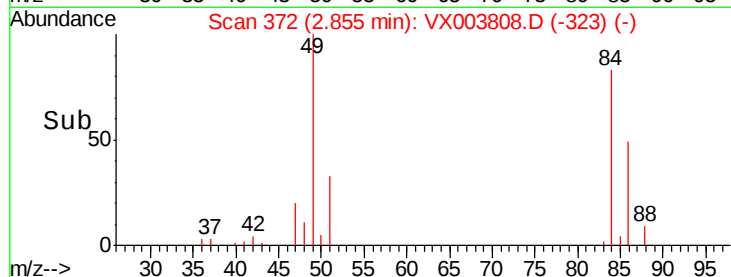
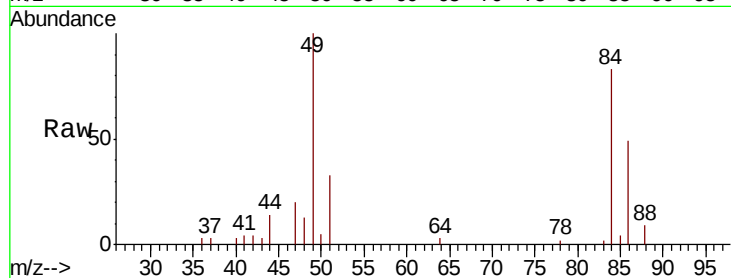




#20
Methylene Chloride
Concen: 1.26 ug/l
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003808.D
Acq: 01 Aug 2018 21:20

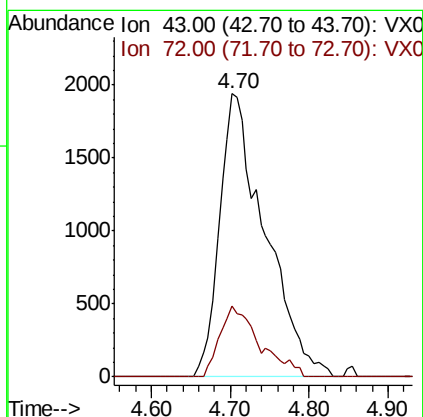
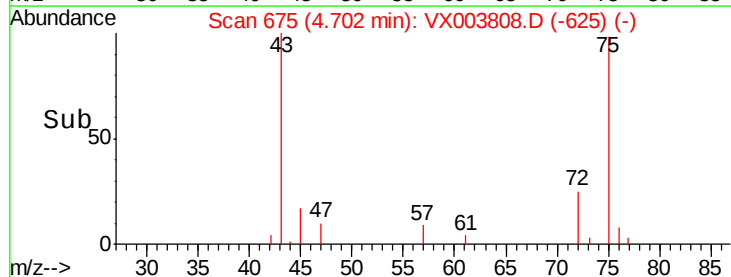
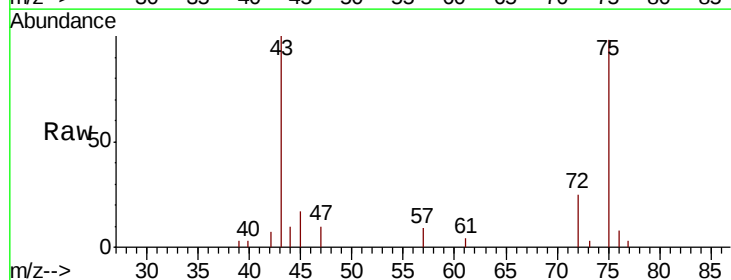
Instrument :
MSVOA_X
ClientSampleId :

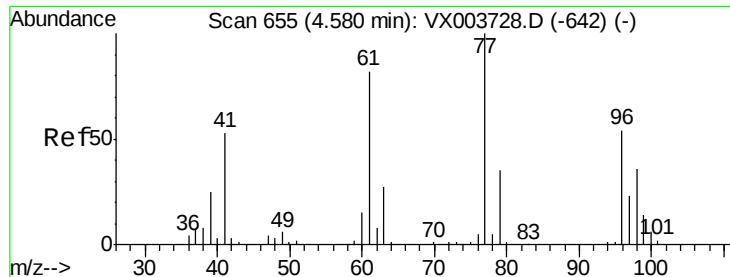
Tot Ion: 84 Resp: 4679
Ion Ratio Lower Upper
84 100
49 121.2 95.8 143.8
51 39.8 29.6 44.4
86 60.0 50.0 75.0



#25
2-Butanone
Concen: 13.06 ug/l
RT: 4.70 min Scan# 675
Delta R.T. 0.01 min
Lab File: VX003808.D
Acq: 01 Aug 2018 21:20

Tgt Ion: 43 Resp: 7749
Ion Ratio Lower Upper
43 100
72 25.1 20.9 31.3





#26

2,2-Dichloropropane

Concen: 2.58 ug/l

RT: 4.75 min Scan# 683

Delta R.T. 0.17 min

Lab File: VX003808.D

Acq: 01 Aug 2018 21:20

Instrument :

MSVOA_X

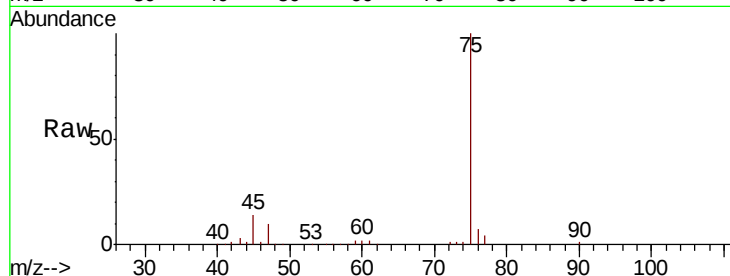
ClientSampled :

Tot Ion: 77 Resp: 3578

Ion Ratio Lower Upper

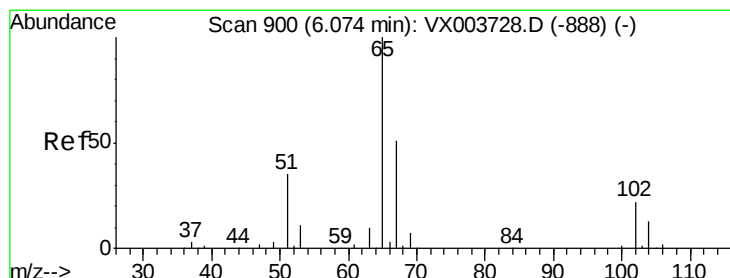
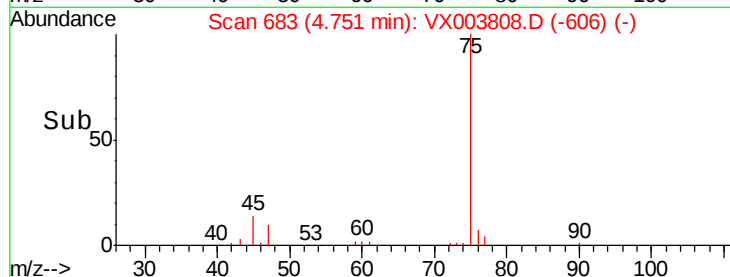
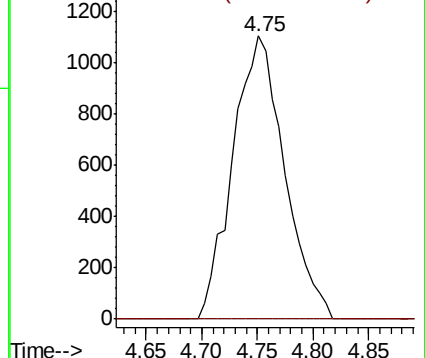
77 100

97 0.0 12.2 36.6#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.89 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.01 min

Lab File: VX003808.D

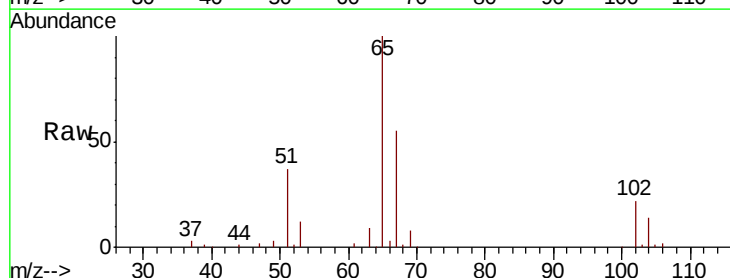
Acq: 01 Aug 2018 21:20

Tgt Ion: 65 Resp: 49982

Ion Ratio Lower Upper

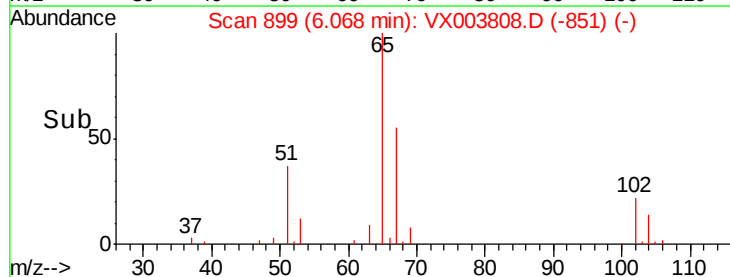
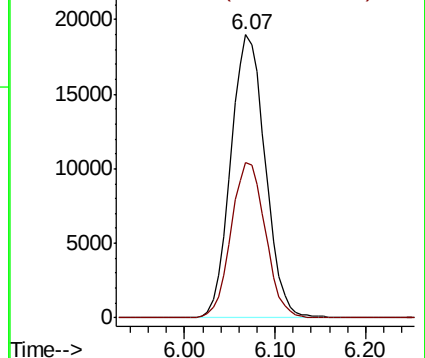
65 100

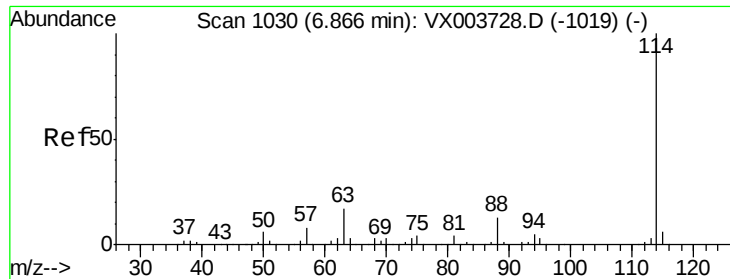
67 54.5 0.0 107.0



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: VX003808.D

Acq: 01 Aug 2018 21:20

Instrument :

MSVOA_X

ClientSampleId :

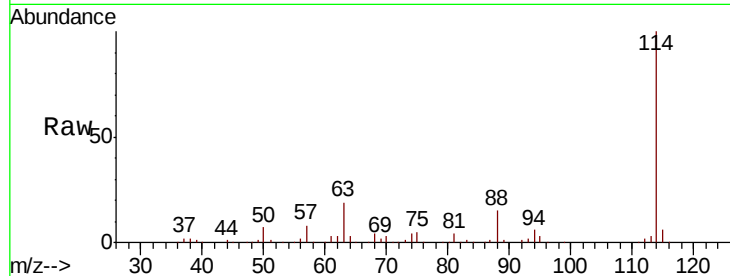
Tot Ion:114 Resp: 155384

Ion Ratio Lower Upper

114 100

63 18.8 0.0 34.0

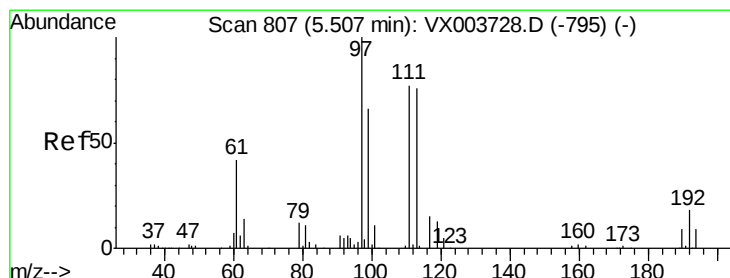
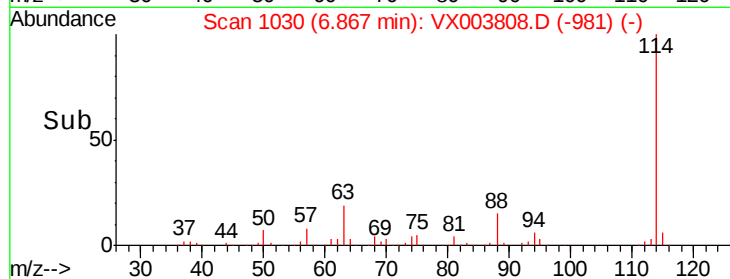
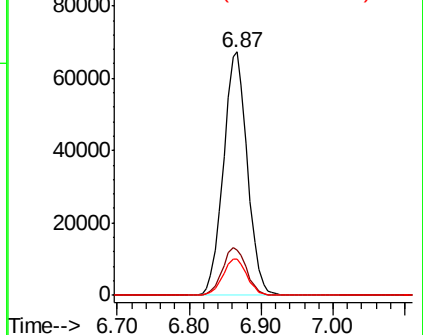
88 15.1 0.0 26.4



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: 50.16 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003808.D

Acq: 01 Aug 2018 21:20

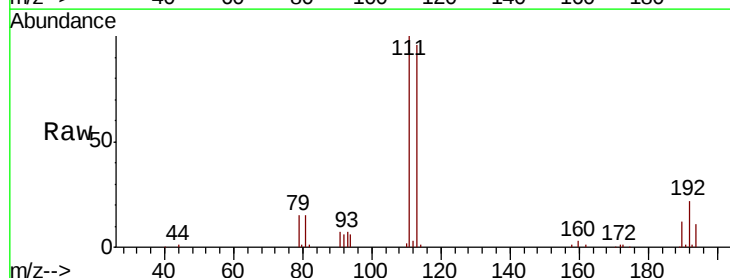
Tgt Ion:113 Resp: 45891

Ion Ratio Lower Upper

113 100

111 103.8 81.8 122.6

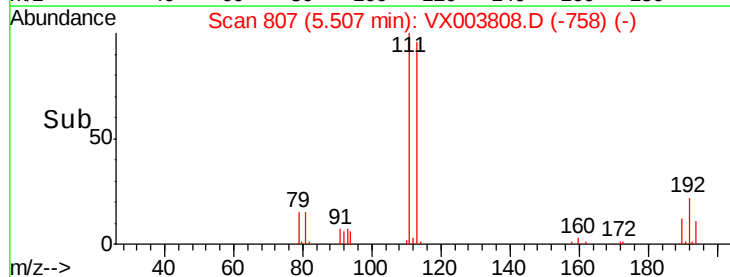
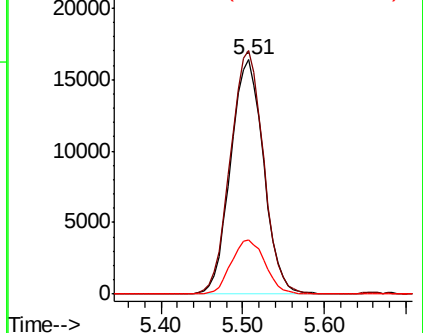
192 23.9 18.8 28.2

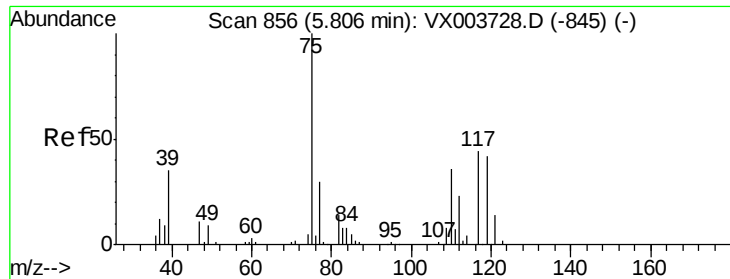


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

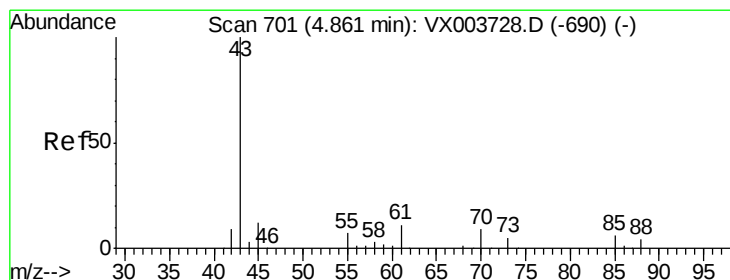
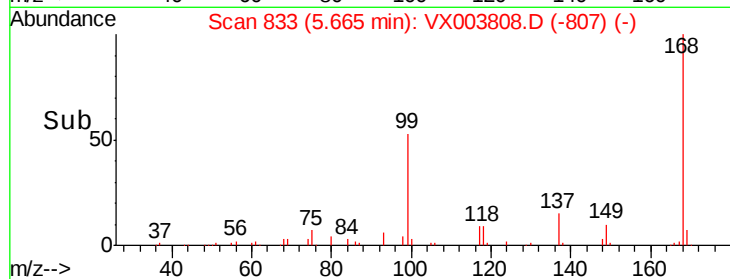
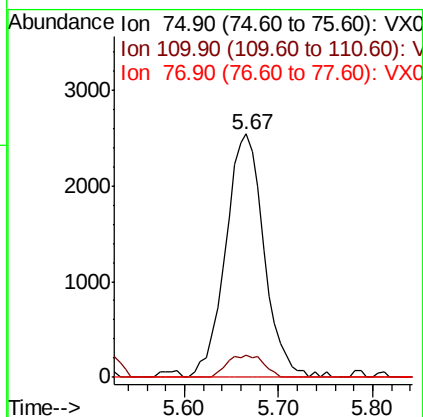
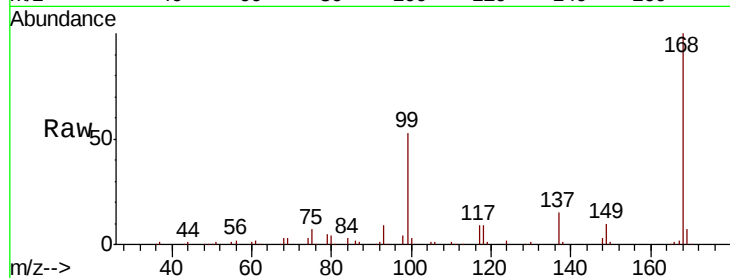




#36
 1,1-Dichloropropene
 Concen: 4.95 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX003808.D
 Acq: 01 Aug 2018 21:20

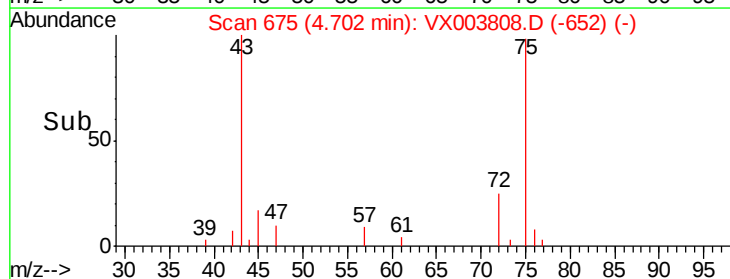
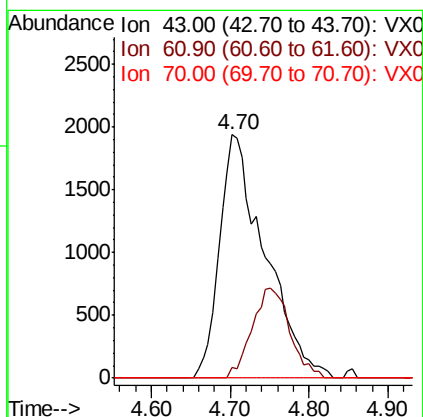
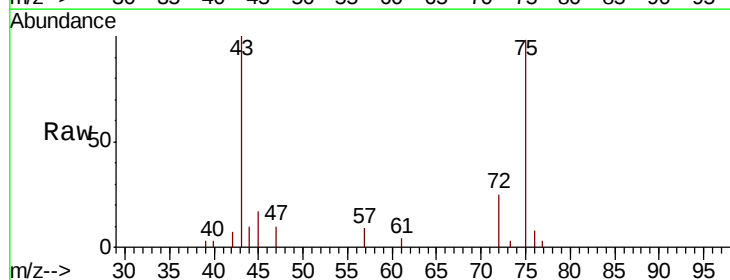
Instrument :
 MSVOA_X
 ClientSampleId :

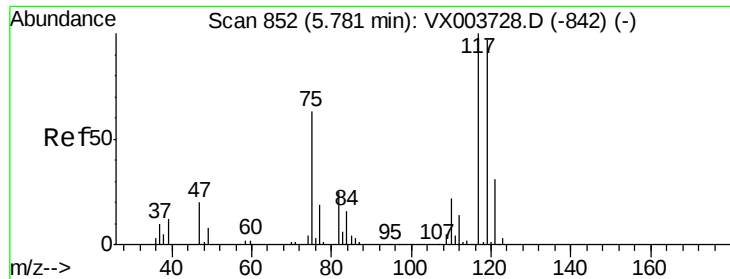
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.3	54.8#
77	0.0	25.1	37.7#



#37
 Ethyl Acetate
 Concen: 6.93 ug/l
 RT: 4.70 min Scan# 675
 Delta R.T. -0.16 min
 Lab File: VX003808.D
 Acq: 01 Aug 2018 21:20

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.4	17.0#
70	0.0	8.2	12.2#





#38

Carbon Tetrachloride

Concen: 6.90 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003808.D

Acq: 01 Aug 2018 21:20

Instrument :

MSVOA_X

ClientSampleId :

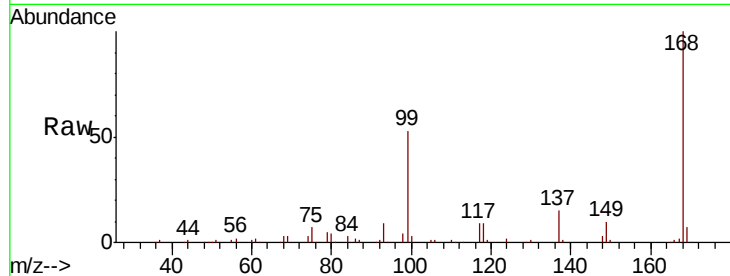
Tot Ion:117 Resp: 9283

Ion Ratio Lower Upper

117 100

119 6.3 77.2 115.8#

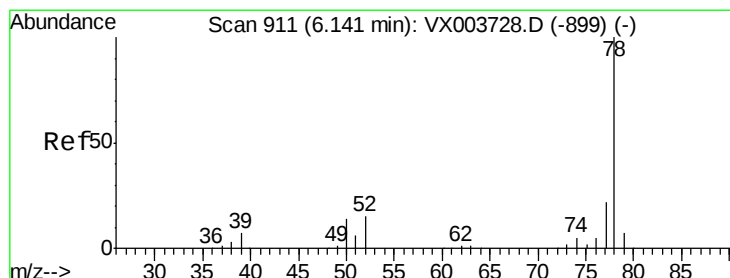
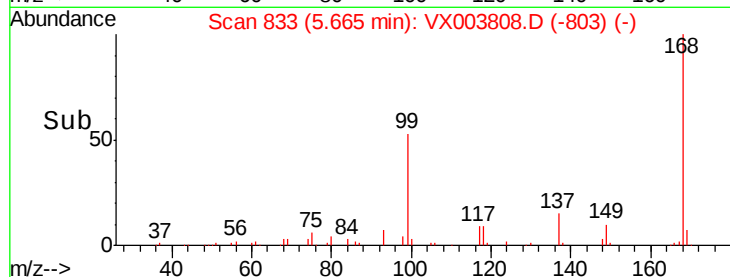
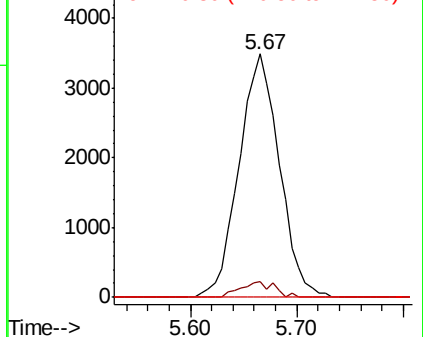
121 0.0 25.0 37.4#



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



#40

Benzene

Concen: 26.46 ug/l

RT: 6.15 min Scan# 912

Delta R.T. 0.01 min

Lab File: VX003808.D

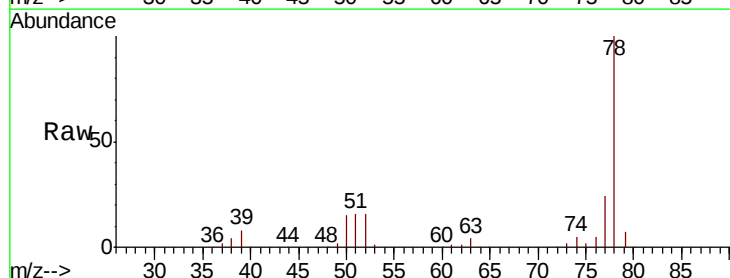
Acq: 01 Aug 2018 21:20

Tgt Ion: 78 Resp: 110359

Ion Ratio Lower Upper

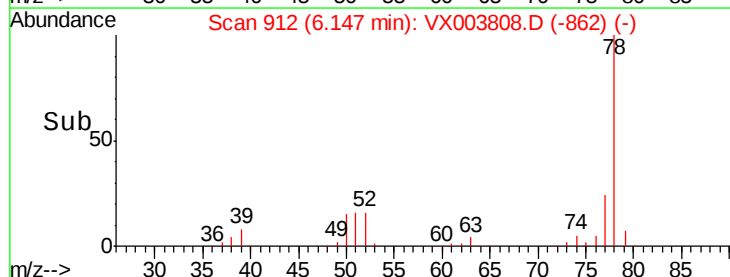
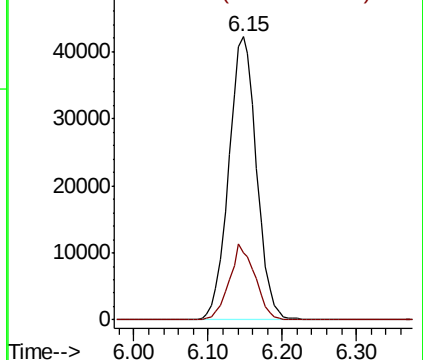
78 100

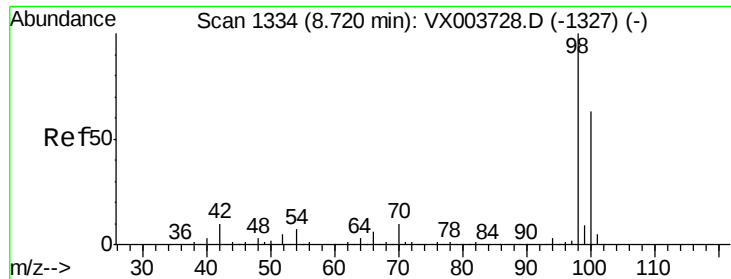
77 23.9 17.9 26.9



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

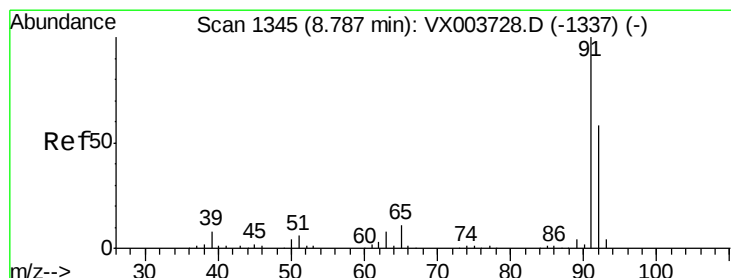
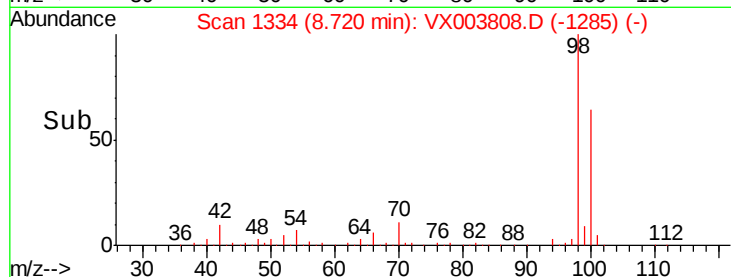
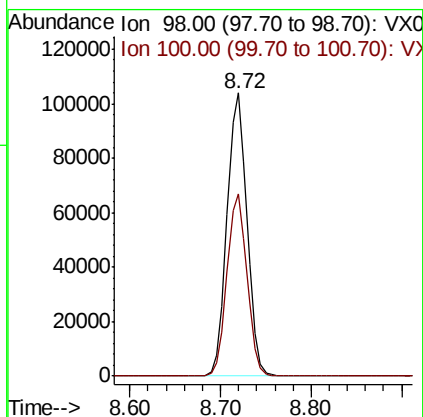
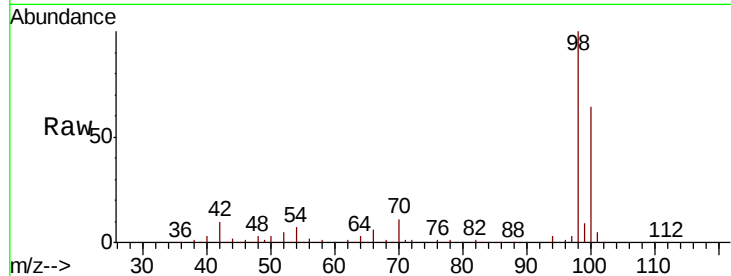




#50
Toluene-d8
Concen: 41.68 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003808.D
Acq: 01 Aug 2018 21:20

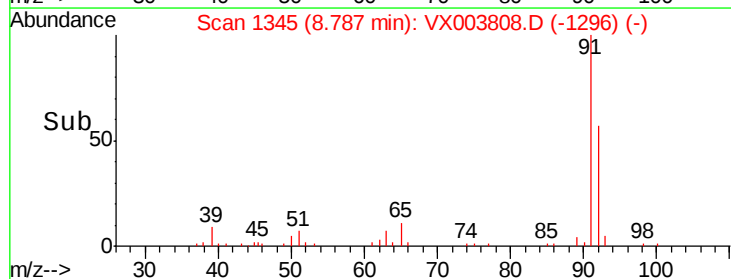
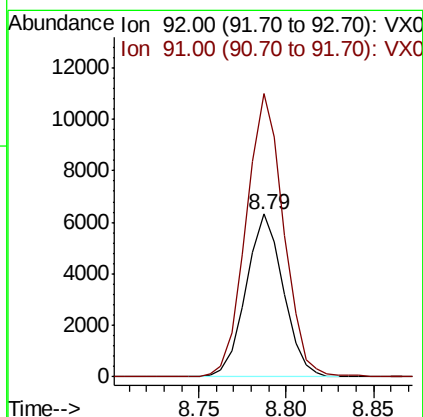
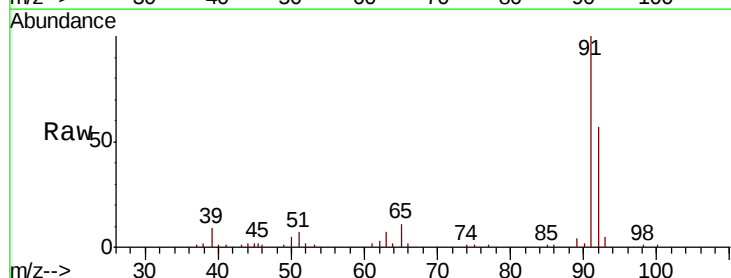
Instrument :
MSVOA_X
ClientSampleId :

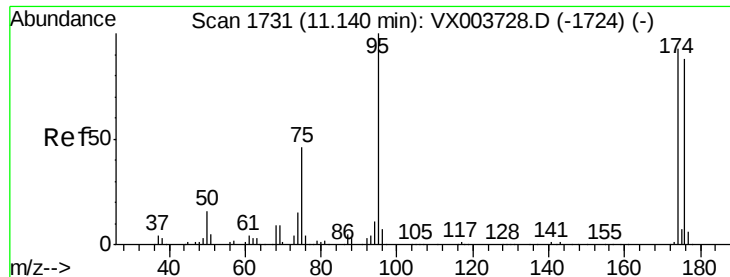
Tot Ion: 98 Resp: 158992
Ion Ratio Lower Upper
98 100
100 64.4 51.4 77.0



#52
Toluene
Concen: 3.59 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. 0.00 min
Lab File: VX003808.D
Acq: 01 Aug 2018 21:20

Tgt Ion: 92 Resp: 9342
Ion Ratio Lower Upper
92 100
91 175.6 139.4 209.2

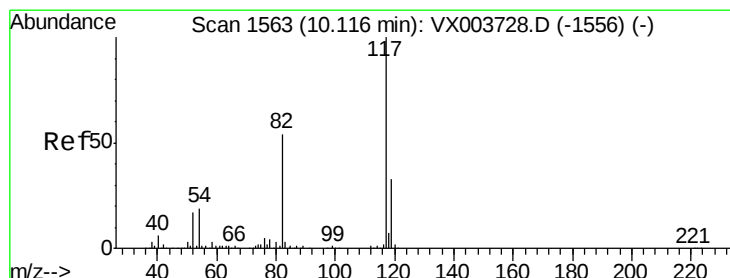
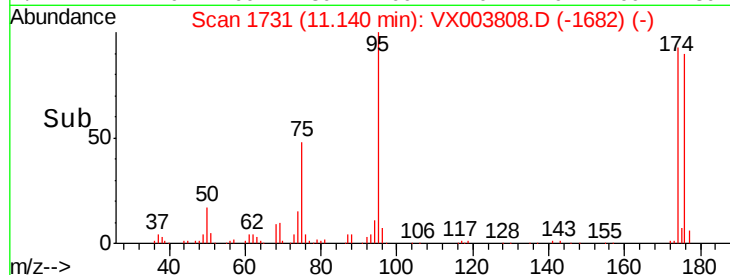
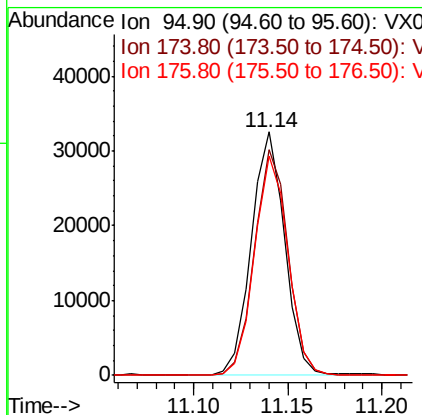
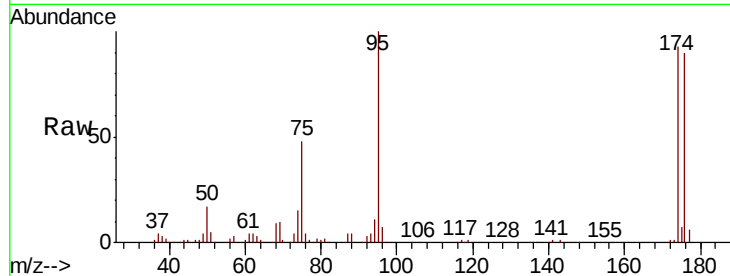




#62
4-Bromofluorobenzene
Concen: 28.40 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003808.D
Acq: 01 Aug 2018 21:20

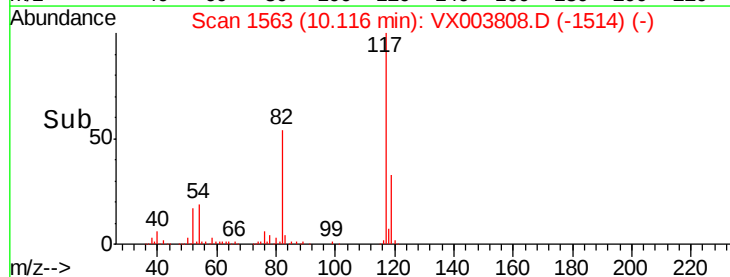
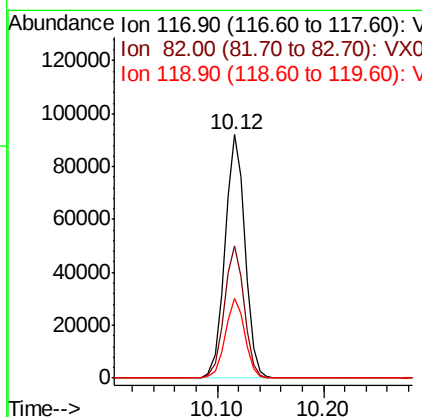
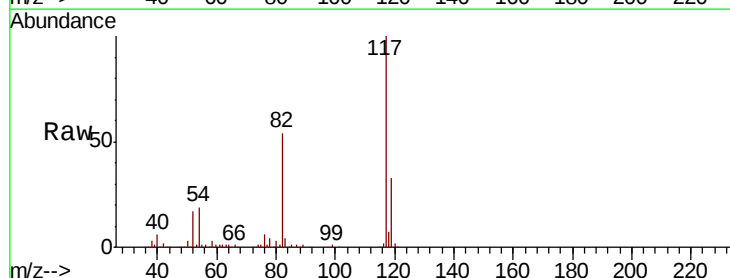
Instrument :
MSVOA_X
ClientSampleId :

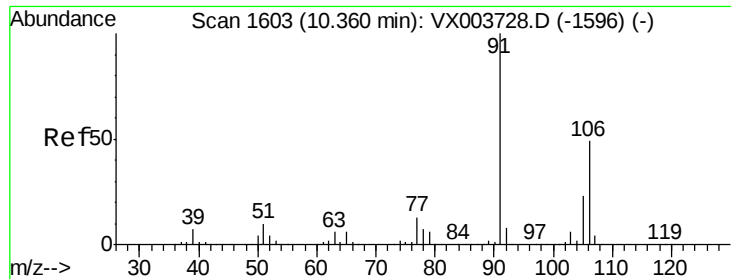
Tot Ion: 95 Resp: 39947
Ion Ratio Lower Upper
95 100
174 93.4 0.0 186.2
176 90.3 0.0 179.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003808.D
Acq: 01 Aug 2018 21:20

Tgt Ion: 117 Resp: 121396
Ion Ratio Lower Upper
117 100
82 54.4 43.2 64.8
119 32.8 26.3 39.5

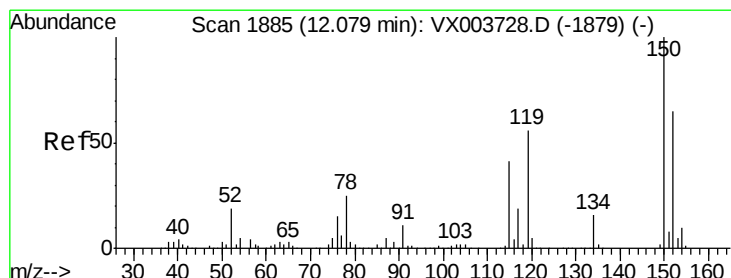
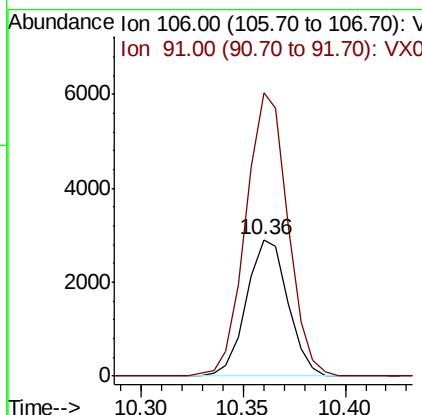
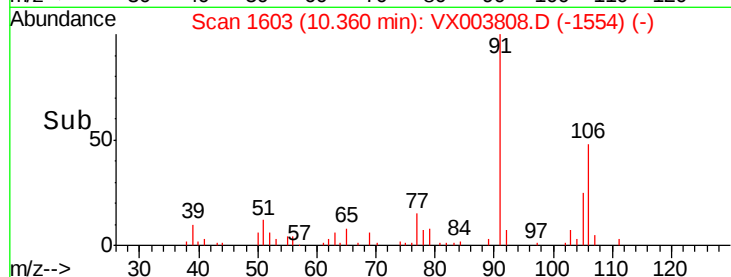
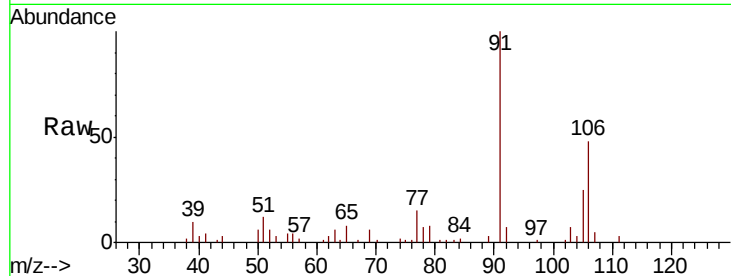




#68
m/p-Xvlenes
Concen: 2.44 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VX003808.D
Acq: 01 Aug 2018 21:20

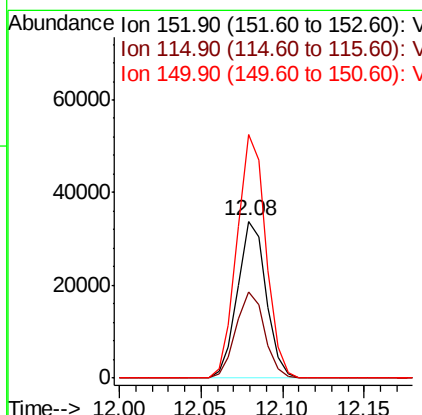
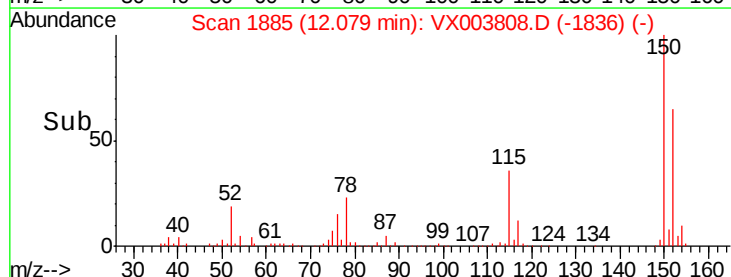
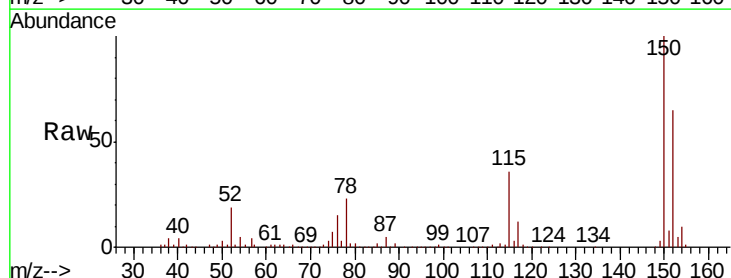
Instrument :
MSVOA_X
ClientSampleId :

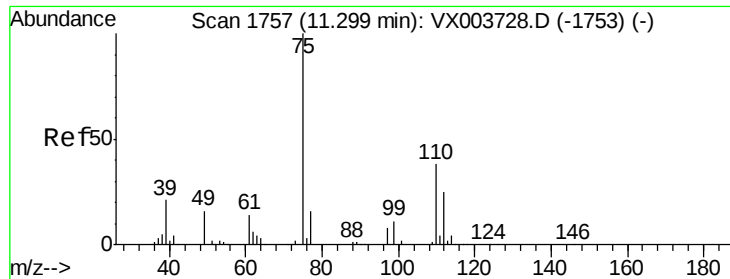
Tot Ion:106 Resp: 4096
Ion Ratio Lower Upper
106 100
91 211.5 159.8 239.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003808.D
Acq: 01 Aug 2018 21:20

Tgt Ion:152 Resp: 41576
Ion Ratio Lower Upper
152 100
115 55.0 38.5 115.3
150 156.5 0.0 346.2

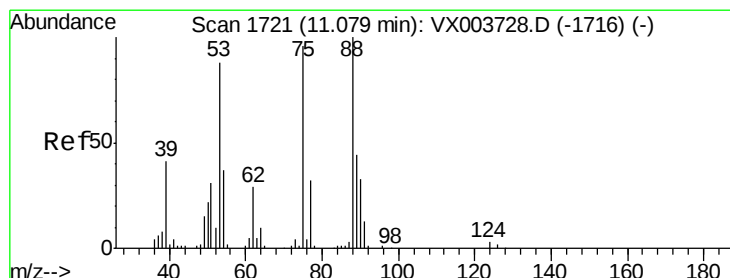
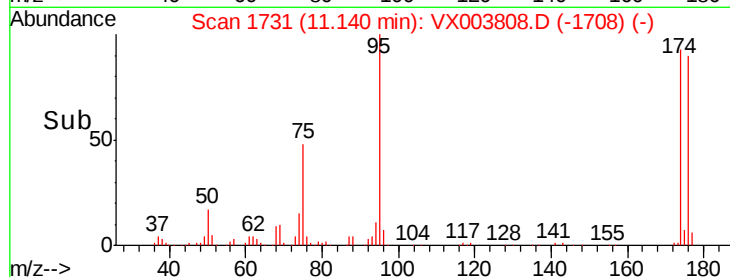
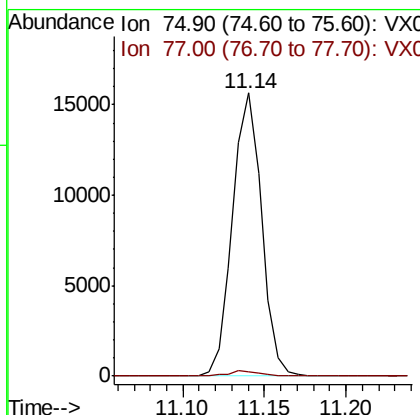
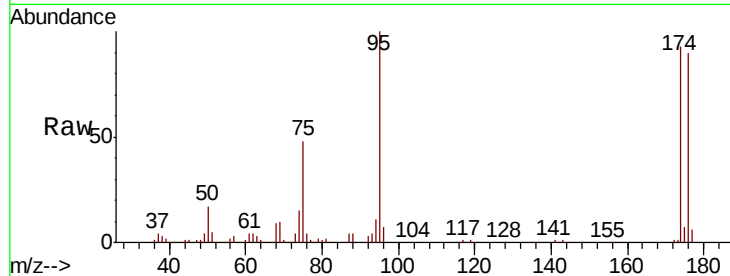




#76
 1,2,3-Trichloropropane
 Concen: 33.92 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003808.D
 Acq: 01 Aug 2018 21:20

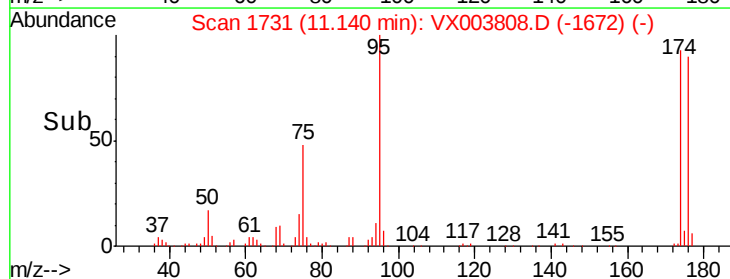
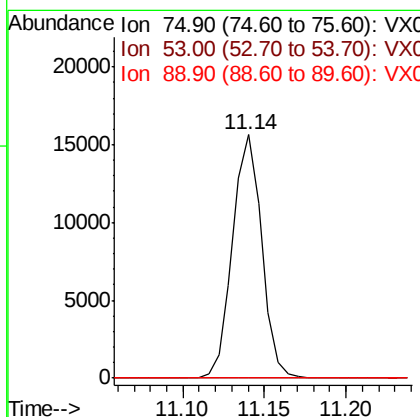
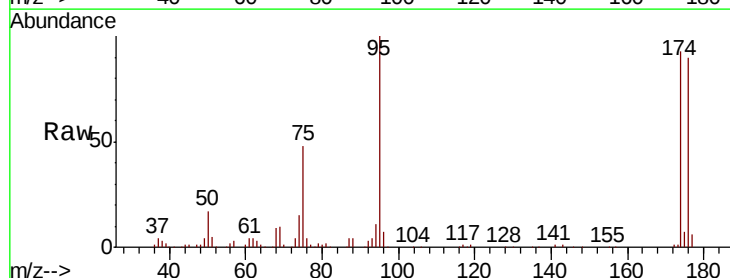
Instrument :
 MSVOA_X
 ClientSampleId :

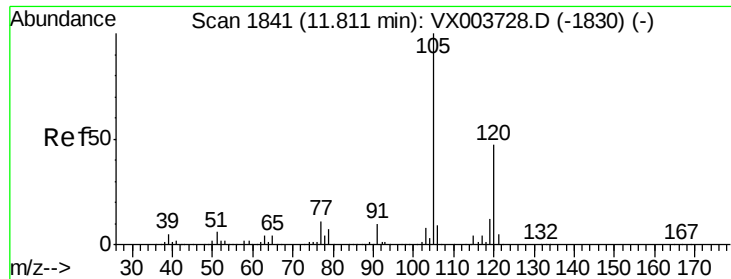
Tot Ion: 75 Resp: 19438
 Ion Ratio Lower Upper
 75 100
 77 1.8 21.6 65.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 100.47 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003808.D
 Acq: 01 Aug 2018 21:20

Tgt Ion: 75 Resp: 19438
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.8 113.8#
 89 0.0 39.1 58.7#

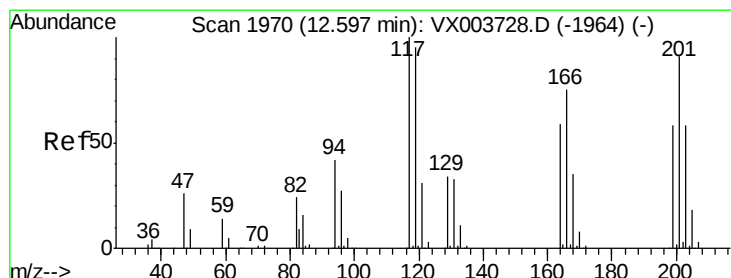
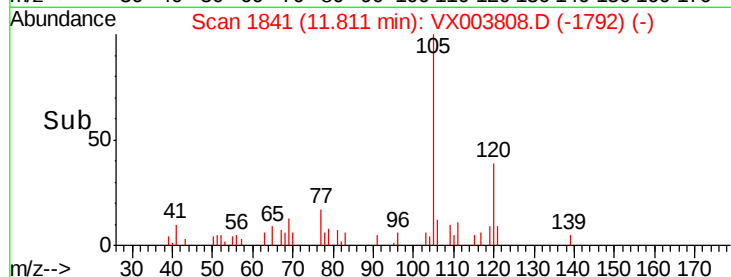
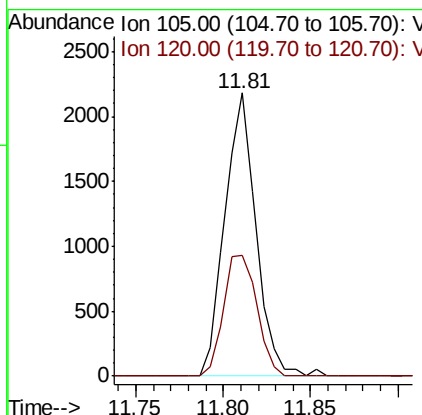
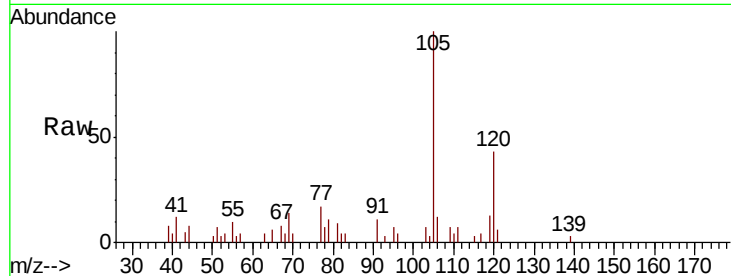




#84
 1,2,4-Trimethylbenzene
 Concen: 1.19 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX003808.D
 Acq: 01 Aug 2018 21:20

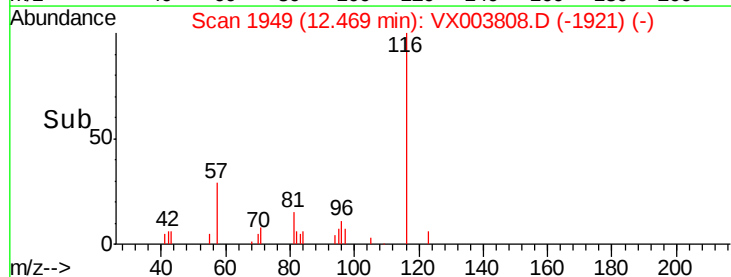
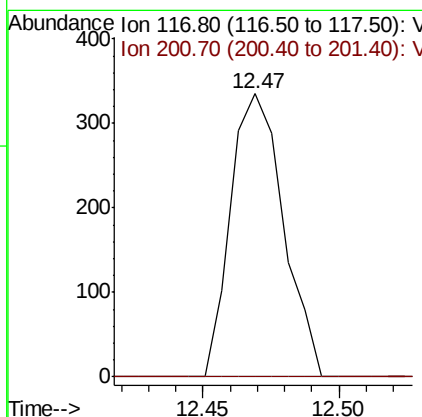
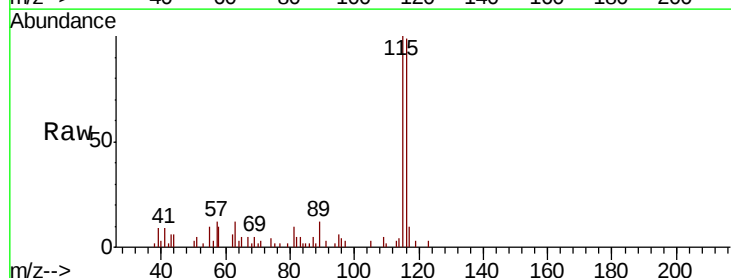
Instrument :
 MSVOA_X
 ClientSampleId :

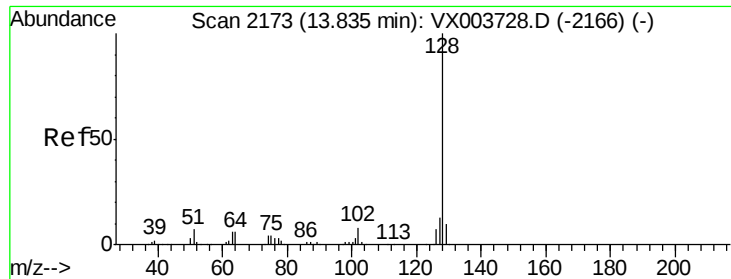
Tot Ion:105 Resp: 2710
 Ion Ratio Lower Upper
 105 100
 120 45.5 23.1 69.2



#90
 Hexachloroethane
 Concen: 1.19 ug/l
 RT: 12.47 min Scan# 1949
 Delta R.T. -0.13 min
 Lab File: VX003808.D
 Acq: 01 Aug 2018 21:20

Tgt Ion:117 Resp: 451
 Ion Ratio Lower Upper
 117 100
 201 0.0 49.3 147.8#

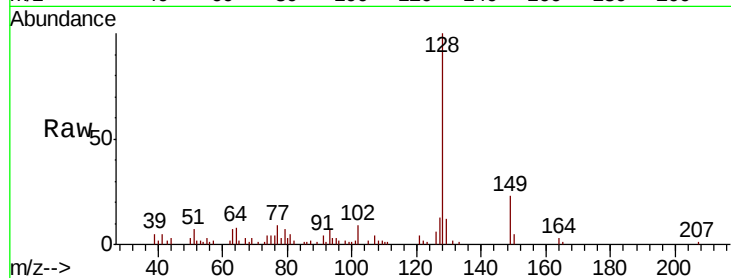




#95
Naphthalene
Concen: 3.32 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VX003808.D
Acq: 01 Aug 2018 21:20

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	12.9	8.7	13.1



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

