

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122218\
 Data File : VX006765.D
 Acq On : 22 Dec 2018 12:10
 Operator : JC/MD
 Sample : J6497-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB

Quant Time: Dec 24 04:22:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	666474	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1013757	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	920536	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	431630	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	347171	48.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.66%	
35) Dibromofluoromethane	5.50	113	305724	47.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.38%	
50) Toluene-d8	8.71	98	1193696	49.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.78%	
62) 4-Bromofluorobenzene	11.13	95	412483	46.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.20%	

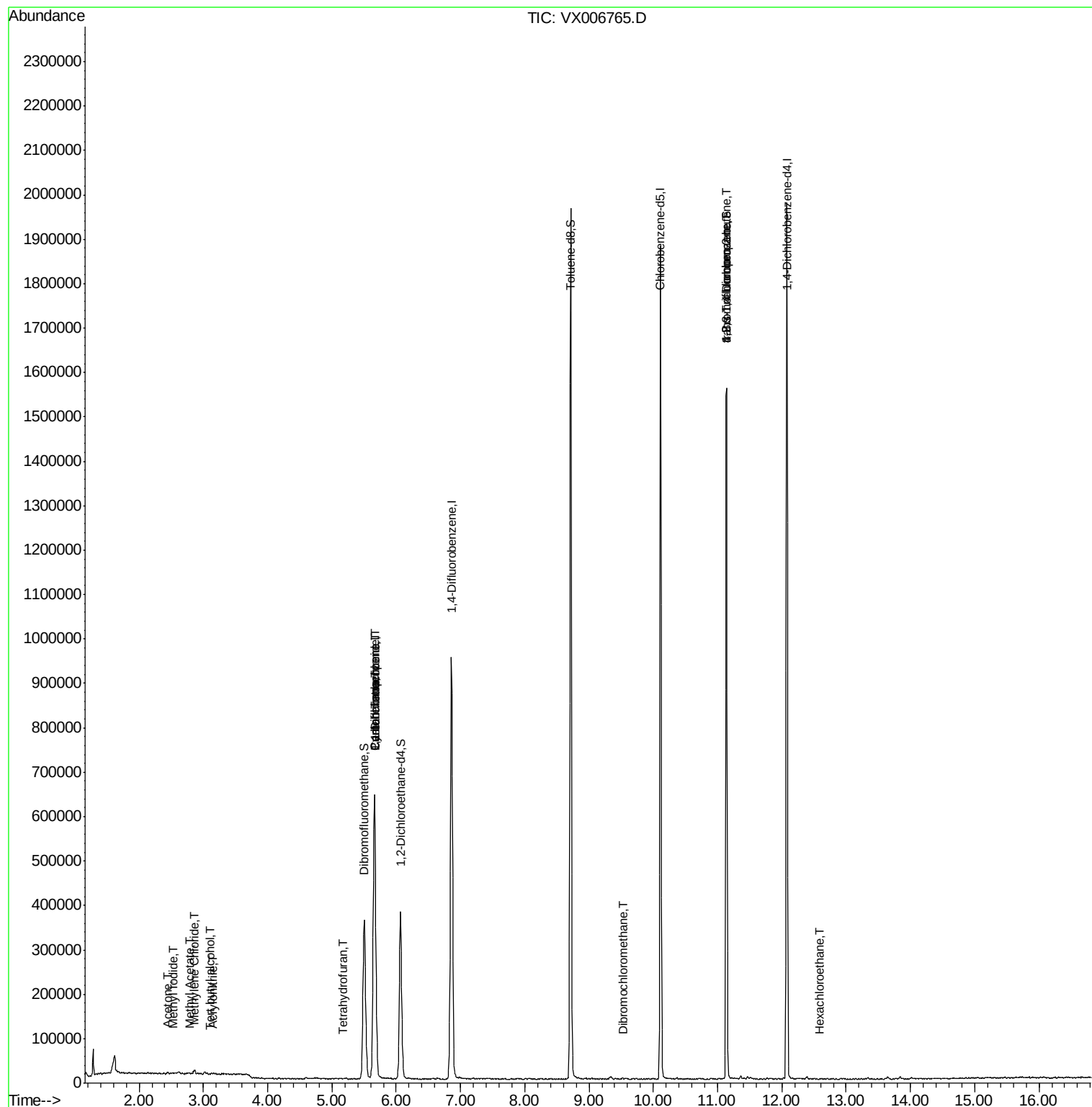
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	3031	Below Cal		85
10) Methyl Iodide	2.52	142	2203	0.245	ug/l #	87
11) Tert butyl alcohol	3.10	59	365	0.228	ug/l #	9
15) Acrylonitrile	3.14	53	1089	0.306	ug/l #	66
16) Acetone	2.45	43	2060	0.624	ug/l #	78
18) Methyl Acetate	2.78	43	2240	0.231	ug/l #	86
20) Methylene Chloride	2.86	84	5160	0.756	ug/l #	85
28) Bromochloromethane	5.01	49	317	Below Cal	#	10
29) Tetrahydrofuran	5.17	42	915	0.299	ug/l #	79
31) Cyclohexane	5.67	56	10398	1.046	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	41011	4.884	ug/l #	49
38) Carbon Tetrachloride	5.66	117	61498	7.537	ug/l #	15
49) 1,4-Dioxane	7.74	88	156	Below Cal	#	1
60) Dibromochloromethane	9.53	129	31	2.328	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	194590	24.259	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	194590	71.809	ug/l #	10
90) Hexachloroethane	12.60	117	33	3.301	ug/l	79

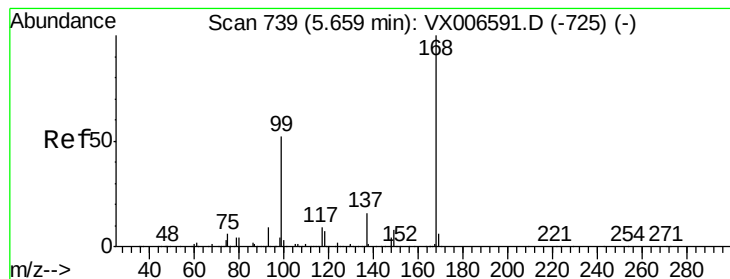
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006765.D

Acq: 22 Dec 2018 12:10

Instrument :

MSVOA_X

ClientSampleId :

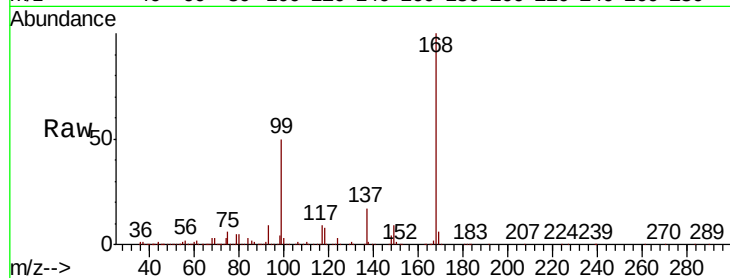
TB

Tot Ion:168 Resp: 666474

Ion Ratio Lower Upper

168 100

99 50.3 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

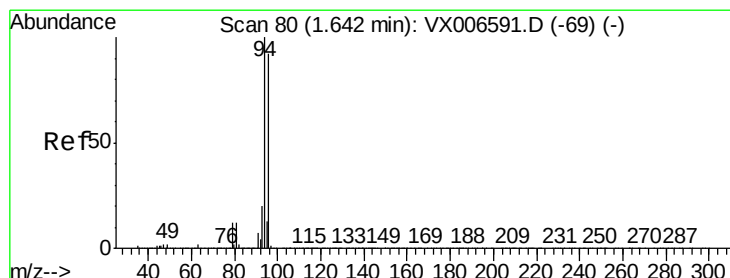
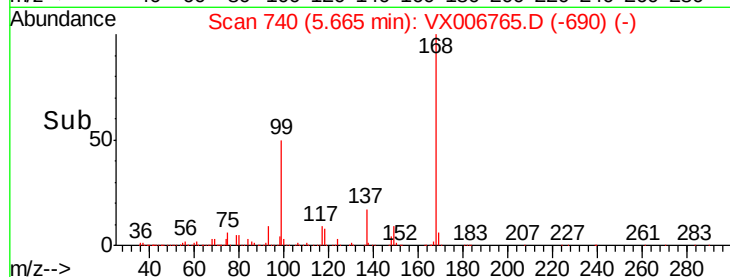
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006765.D

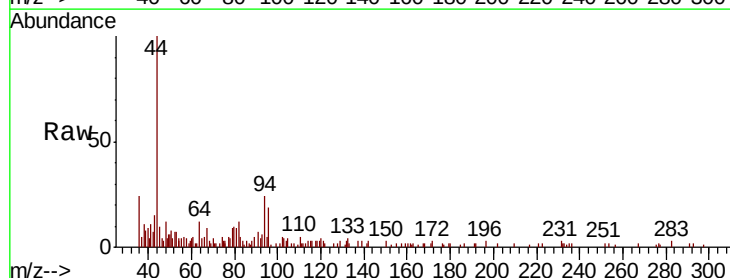
Acq: 22 Dec 2018 12:10

Tgt Ion: 94 Resp: 3031

Ion Ratio Lower Upper

94 100

96 77.4 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

1000

800

600

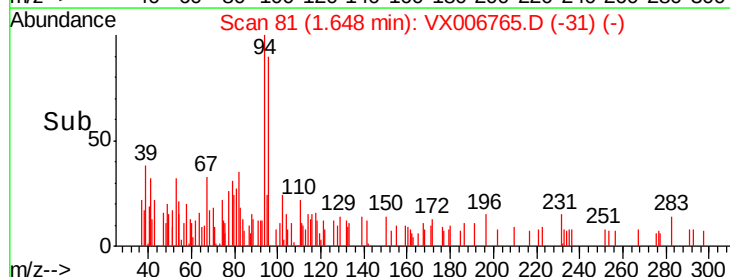
400

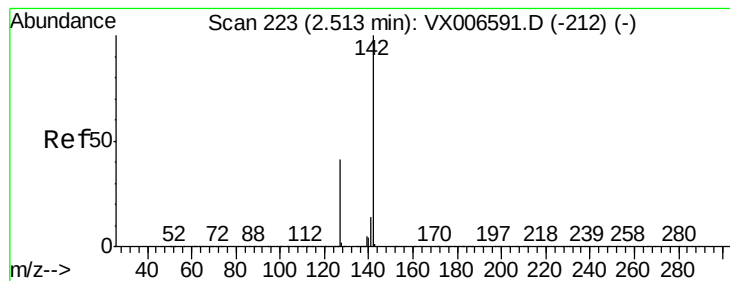
200

0

Time-->

1.55 1.60 1.65 1.70





#10

Methvl Iodide

Concen: 0.245 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX006765.D

Acq: 22 Dec 2018 12:10

Instrument :

MSVOA_X

ClientSampled :

TB

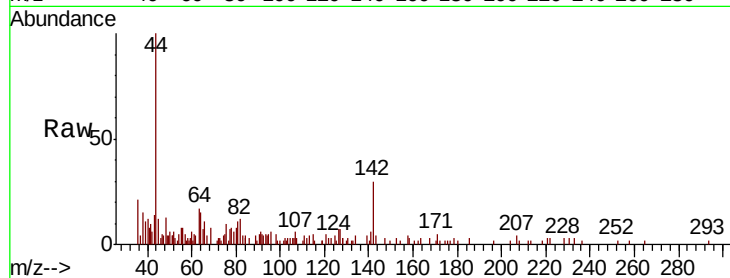
Tot Ion:142 Resp: 2203

Ion Ratio Lower Upper

142 100

127 32.0 33.9 50.9#

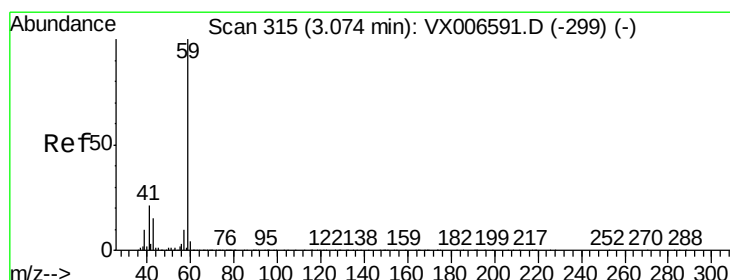
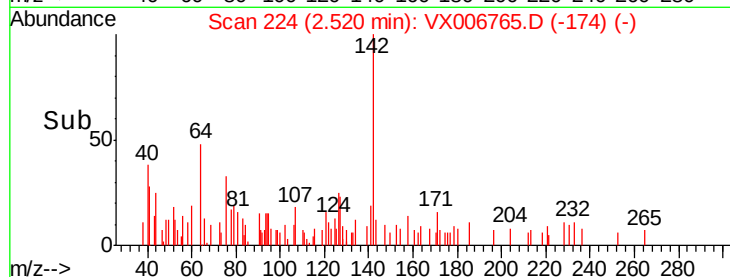
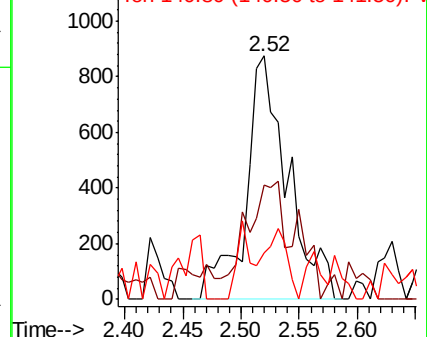
141 14.8 11.4 17.0



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: 0.228 ug/l

RT: 3.10 min Scan# 320

Delta R.T. 0.03 min

Lab File: VX006765.D

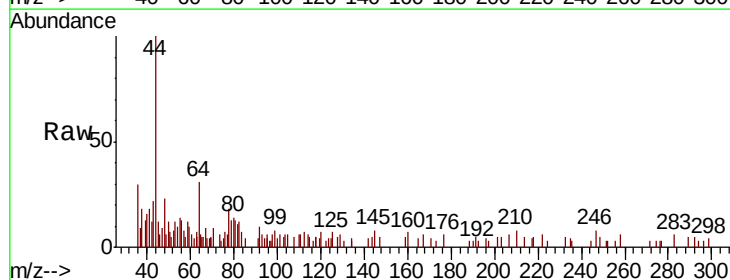
Acq: 22 Dec 2018 12:10

Tgt Ion: 59 Resp: 365

Ion Ratio Lower Upper

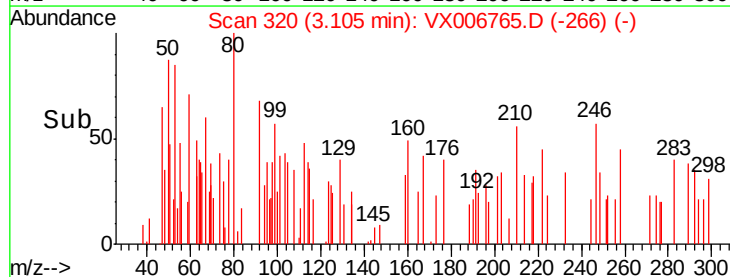
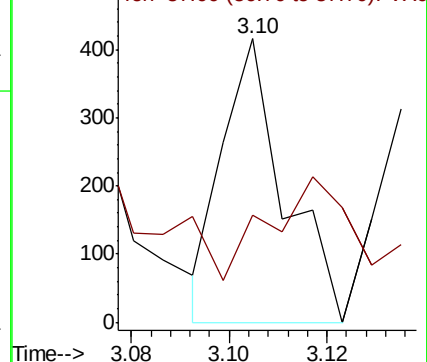
59 100

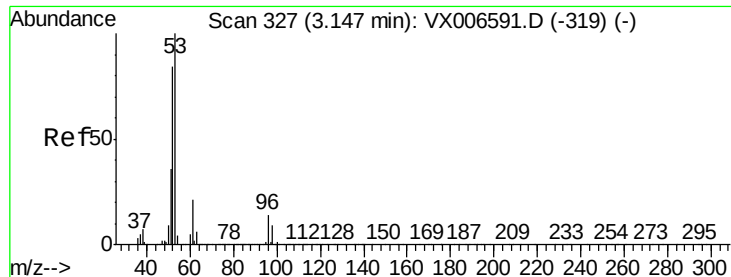
57 44.7 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#15

Acrylonitrile

Concen: 0.306 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX006765.D

Acq: 22 Dec 2018 12:10

Instrument :

MSVOA_X

ClientSampleID :

TB

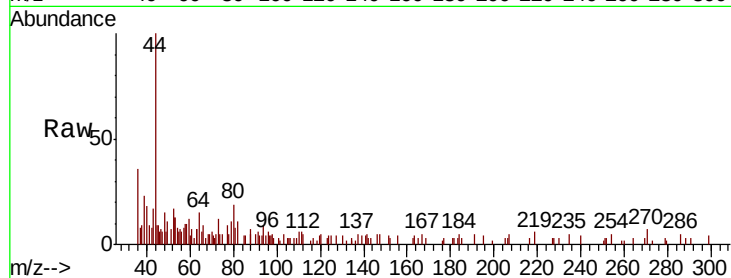
Tot Ion: 53 Resp: 1089

Ion Ratio Lower Upper

53 100

52 116.4 66.0 99.0#

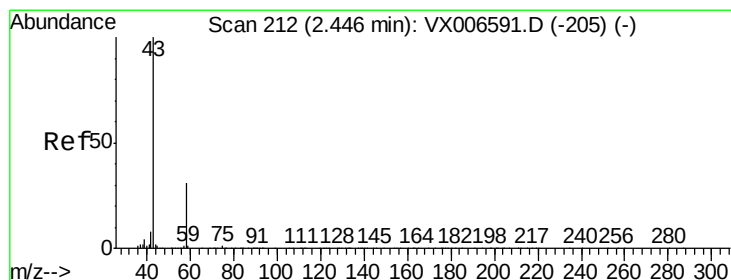
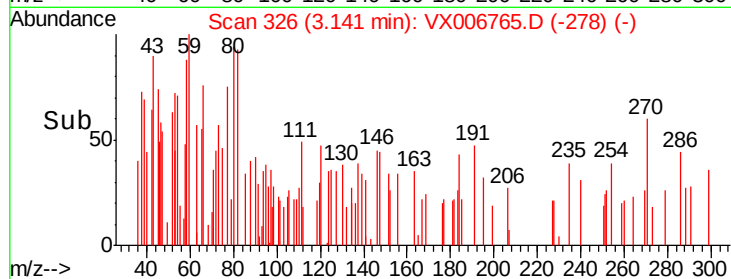
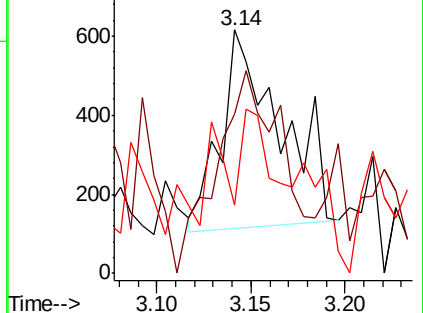
51 21.4 28.6 42.8#



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: 0.624 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006765.D

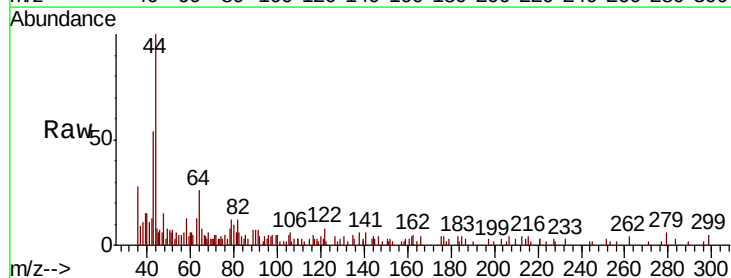
Acq: 22 Dec 2018 12:10

Tgt Ion: 43 Resp: 2060

Ion Ratio Lower Upper

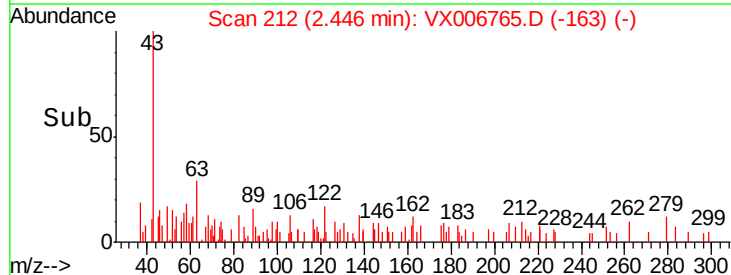
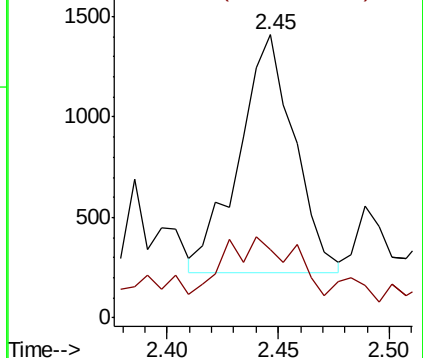
43 100

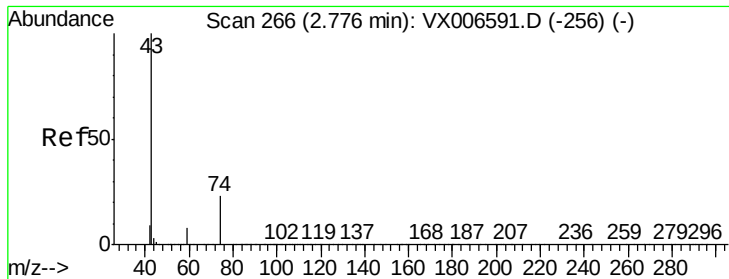
58 19.3 25.0 37.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

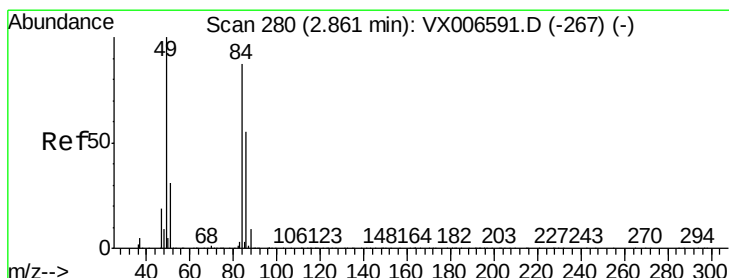
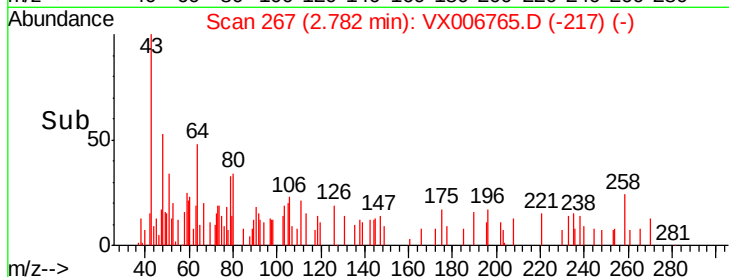
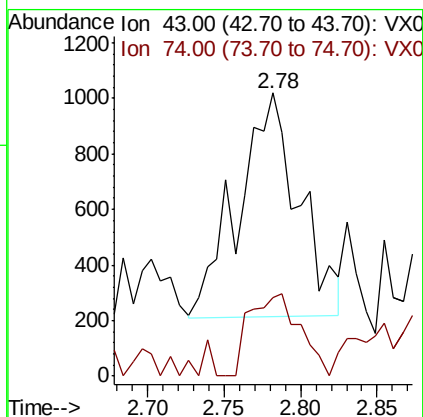
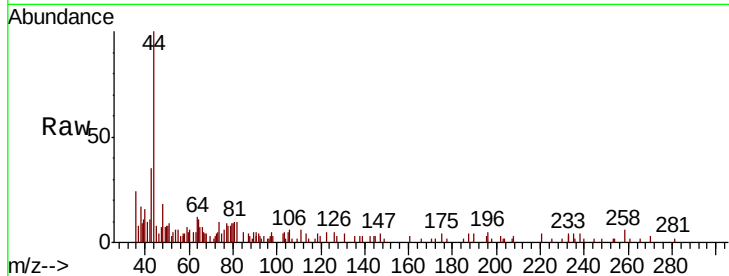




#18
Methyl Acetate
Concen: 0.231 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006765.D
Acq: 22 Dec 2018 12:10

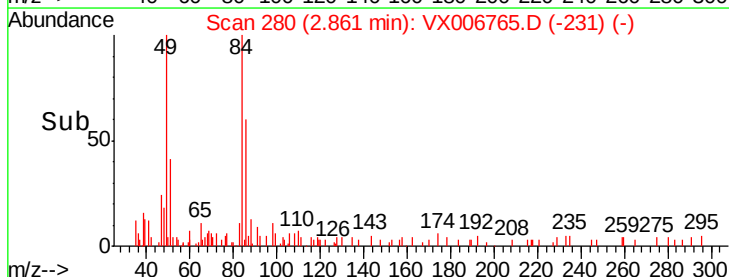
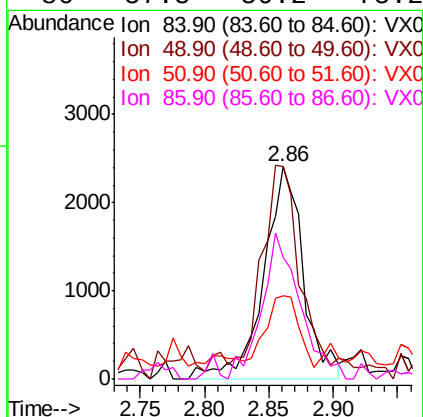
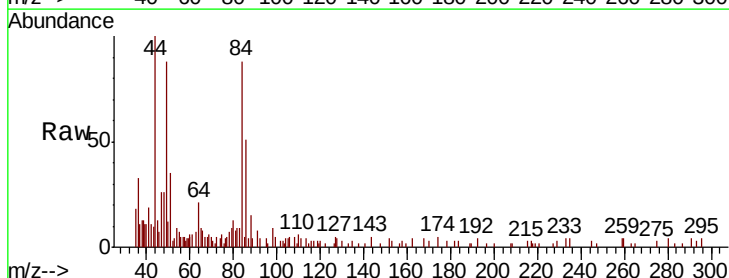
Instrument :
MSVOA_X
ClientSampled :
TB

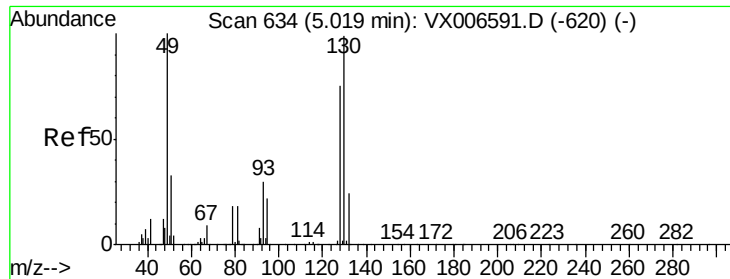
Tot Ion: 43 Resp: 2240
Ion Ratio Lower Upper
43 100
74 30.2 18.6 28.0#



#20
Methylene Chloride
Concen: 0.756 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006765.D
Acq: 22 Dec 2018 12:10

Tgt Ion: 84 Resp: 5160
Ion Ratio Lower Upper
84 100
49 90.5 91.8 137.6#
51 33.4 28.5 42.7
86 57.5 50.2 75.2





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX006765.D

Acq: 22 Dec 2018 12:10

Instrument :

MSVOA_X

ClientSampled :

TB

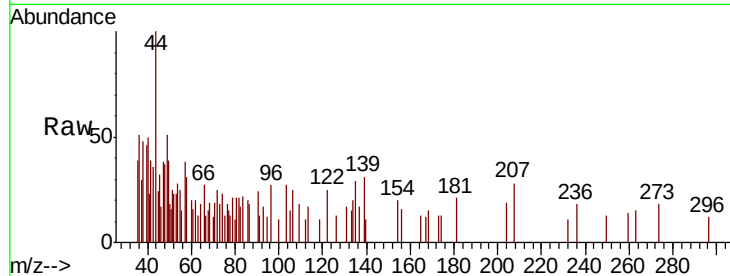
Tot Ion: 49 Resp: 317

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

130 6.6 77.7 116.5#



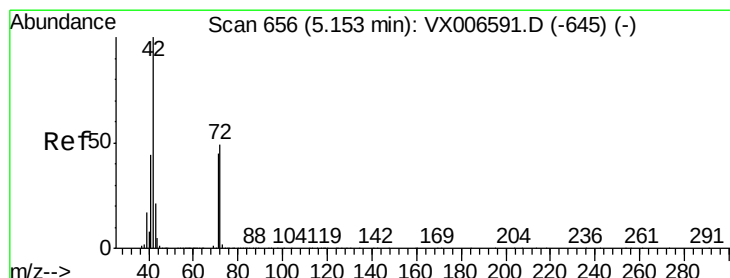
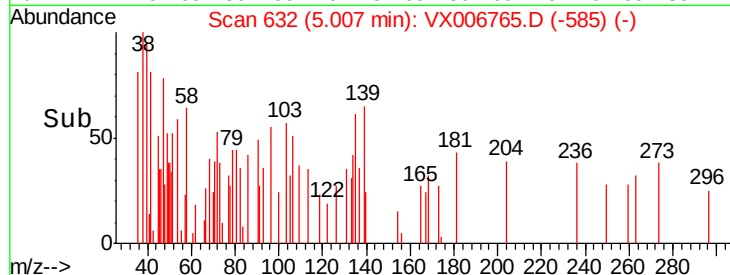
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

5.01

Time-->



#29

Tetrahydrofuran

Concen: 0.299 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX006765.D

Acq: 22 Dec 2018 12:10

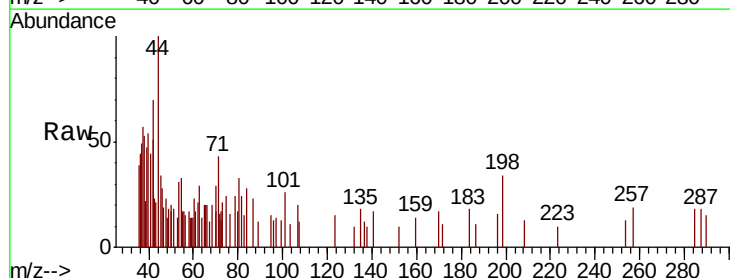
Tgt Ion: 42 Resp: 915

Ion Ratio Lower Upper

42 100

72 41.9 38.9 58.3

71 23.8 36.2 54.4#



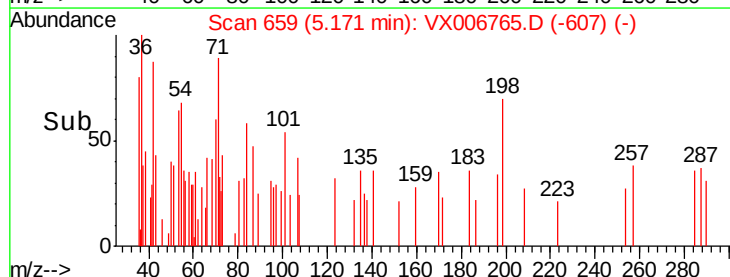
Abundance Ion 42.00 (41.70 to 42.70): VX0

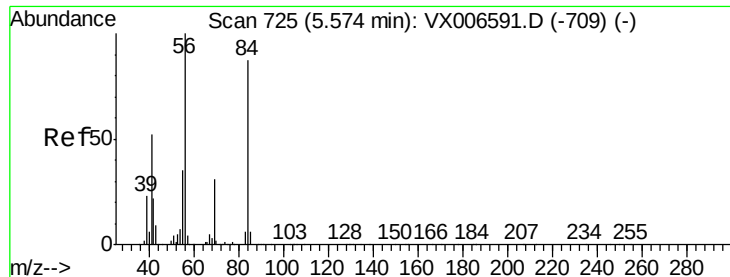
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

5.17

Time-->

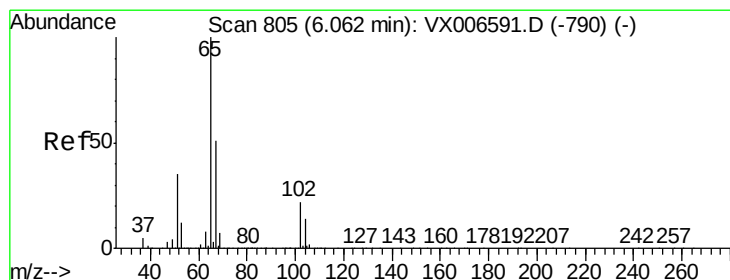
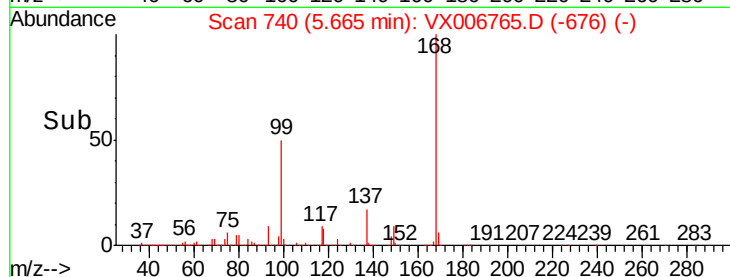
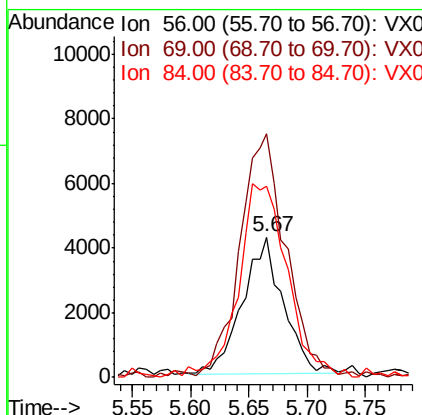
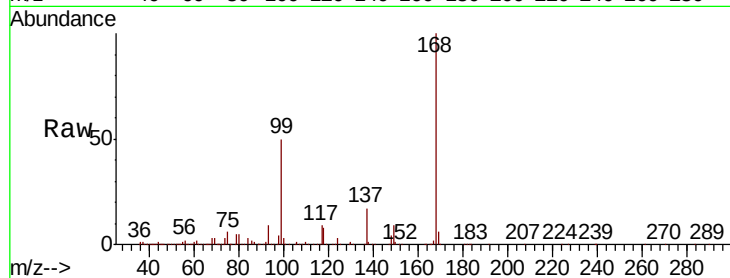




#31
Cyclohexane
Concen: 1.046 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX006765.D
Acq: 22 Dec 2018 12:10

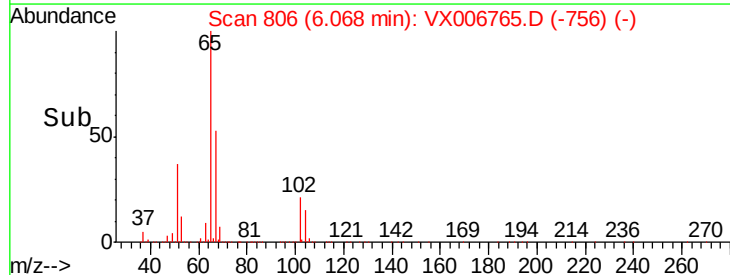
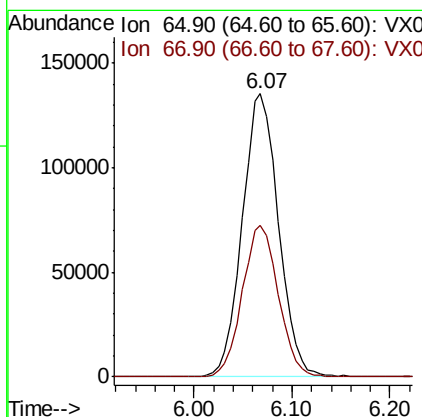
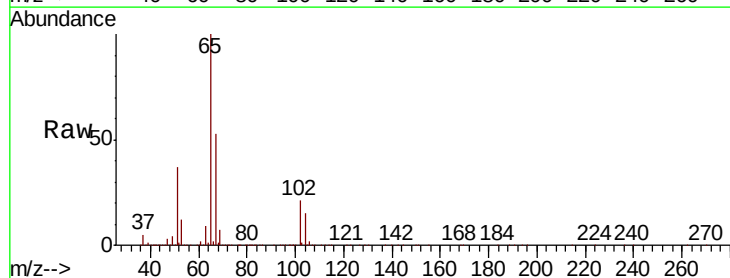
Instrument :
MSVOA_X
ClientSampled :
TB

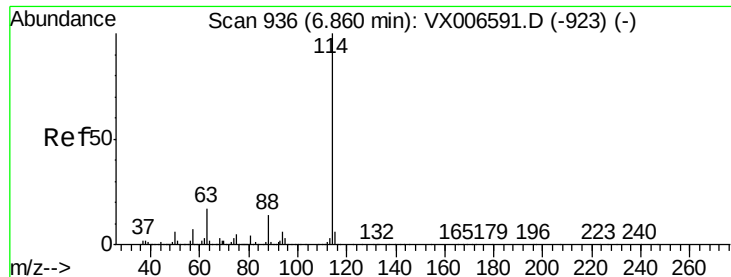
Tot Ion: 56 Resp: 10398
Ion Ratio Lower Upper
56 100
69 176.7 24.4 36.6#
84 138.7 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 48.333 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006765.D
Acq: 22 Dec 2018 12:10

Tgt Ion: 65 Resp: 347171
Ion Ratio Lower Upper
65 100
67 53.4 0.0 105.0



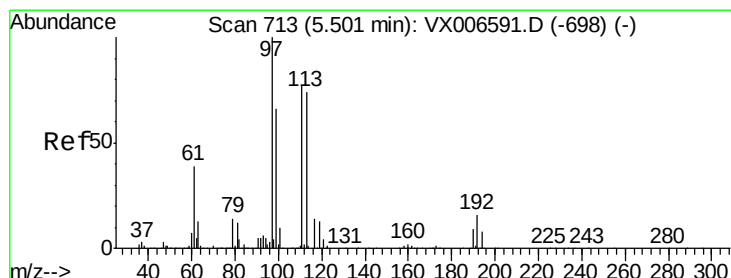
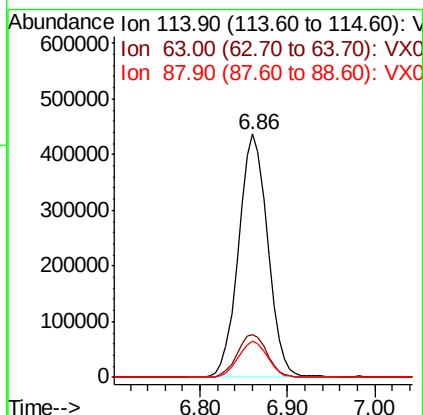
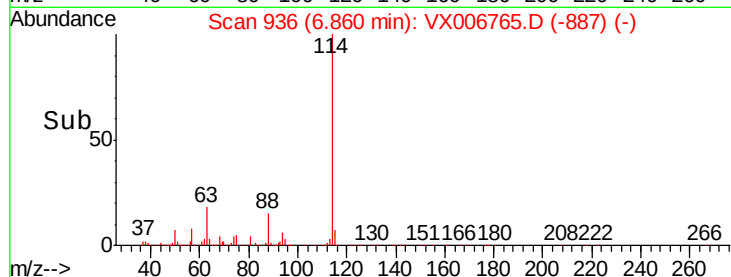
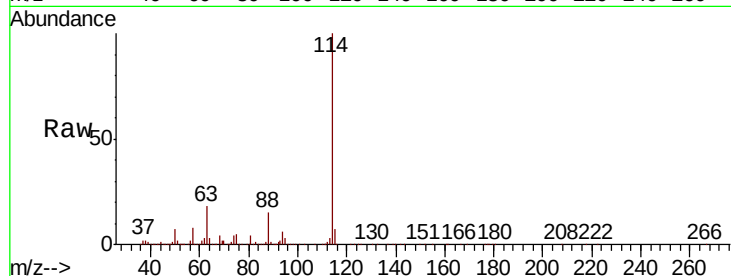


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX006765.D
 Acq: 22 Dec 2018 12:10

Instrument :
 MSVOA_X
 ClientSampleId :
 TB

Tot Ion:114 Resp: 1013757

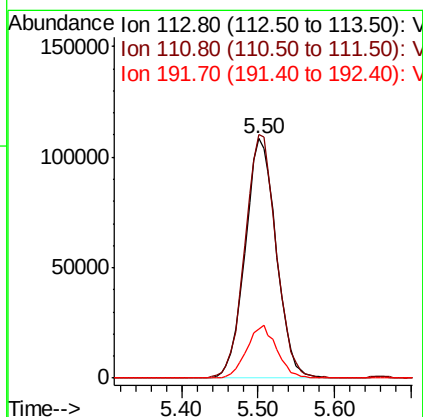
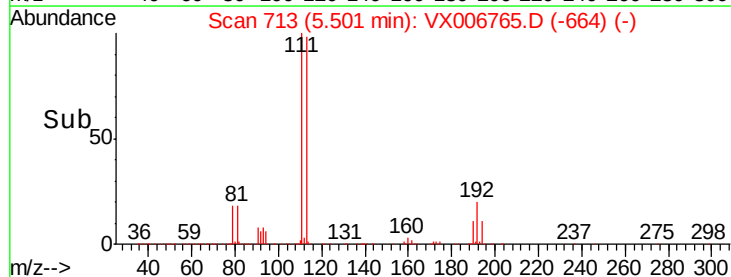
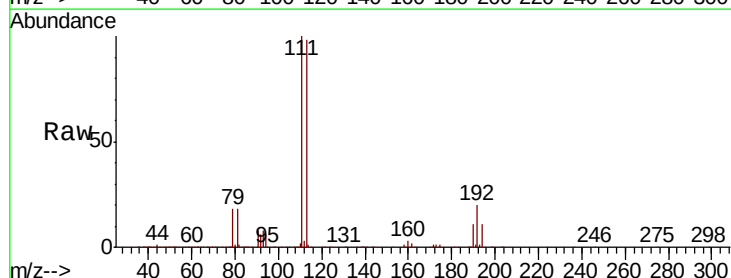
Ion	Ratio	Lower	Upper
114	100		
63	17.6	0.0	34.8
88	14.8	0.0	28.8

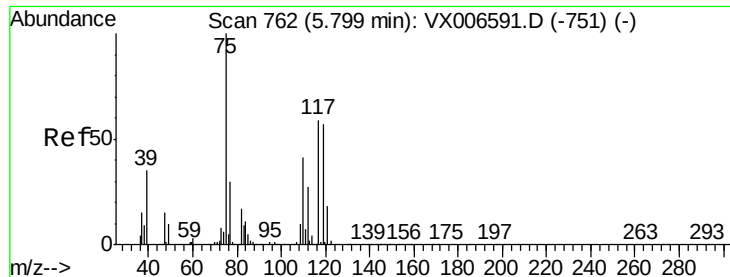


#35
 Dibromofluoromethane
 Concen: 47.689 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX006765.D
 Acq: 22 Dec 2018 12:10

Tgt Ion:113 Resp: 305724

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.6	122.4
192	21.3	16.7	25.1

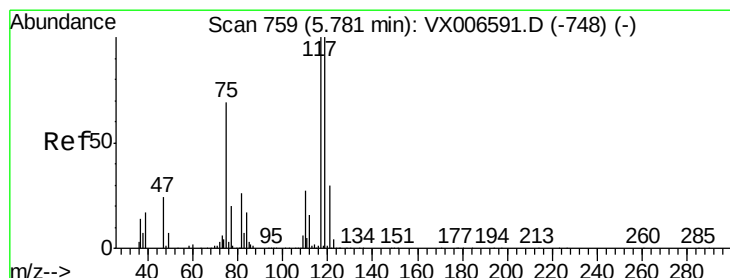
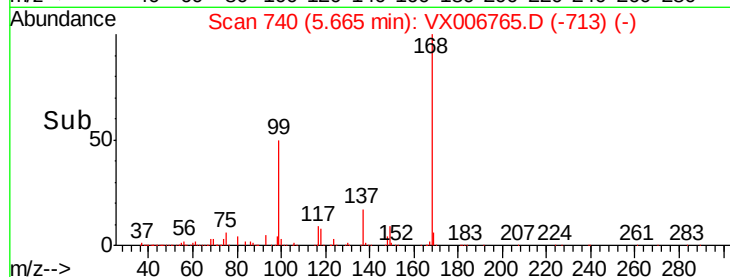
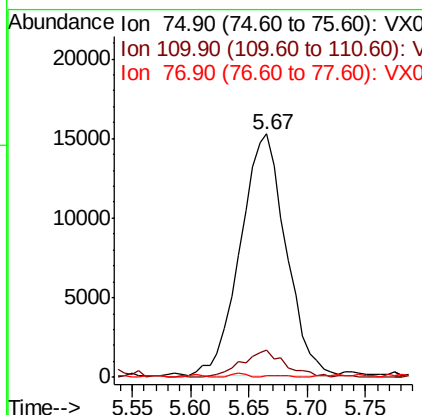
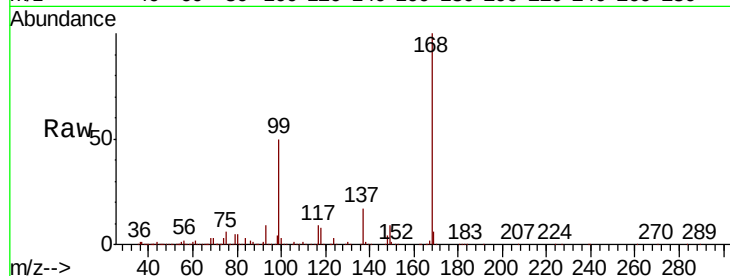




#36
 1,1-Dichloropropene
 Concen: 4.884 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006765.D
 Acq: 22 Dec 2018 12:10

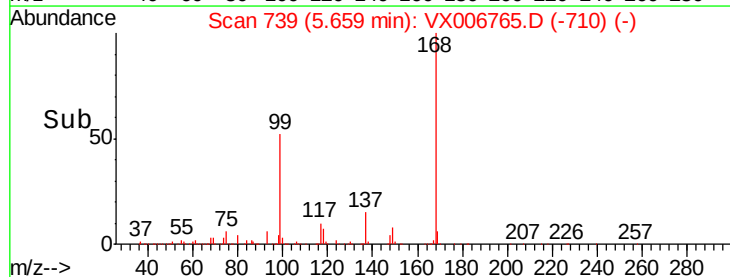
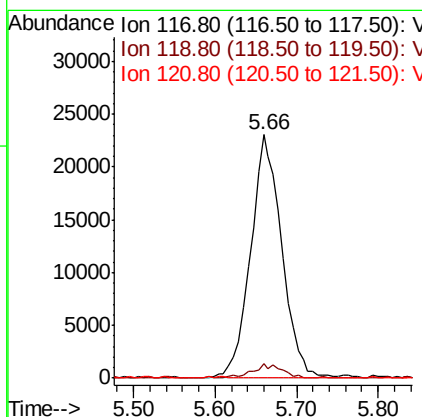
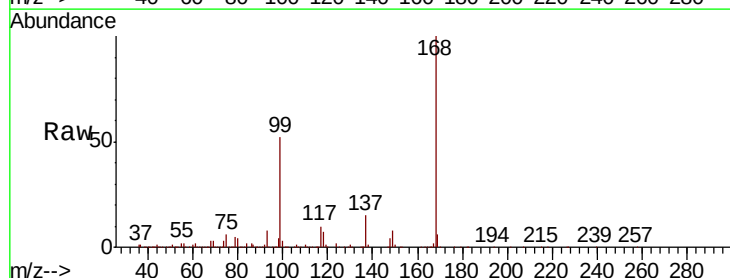
Instrument :
 MSVOA_X
 ClientSampled :
 TB

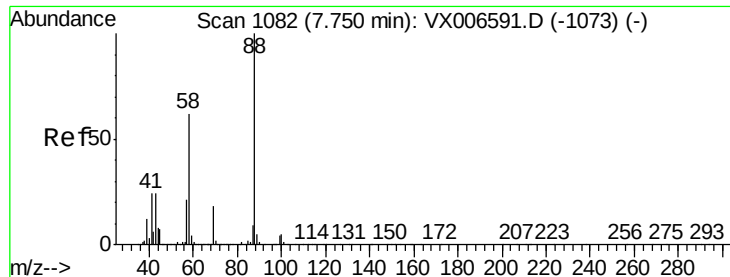
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.7	20.2	60.5#
77	0.4	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.537 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX006765.D
 Acq: 22 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	79.4	119.2#
121	0.0	24.0	36.0#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.74 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VX006765.D

Acq: 22 Dec 2018 12:10

Instrument :

MSVOA_X

ClientSampled :

TB

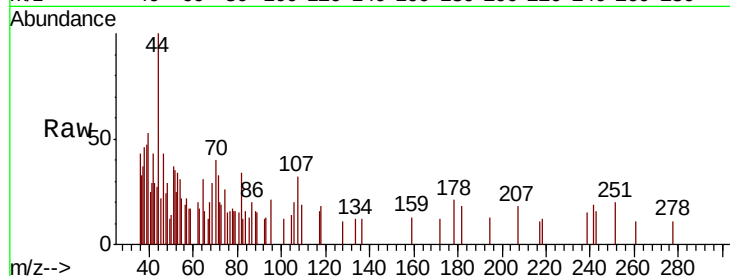
Tot Ion: 88 Resp: 156

Ion Ratio Lower Upper

88 100

43 307.7 22.2 33.4#

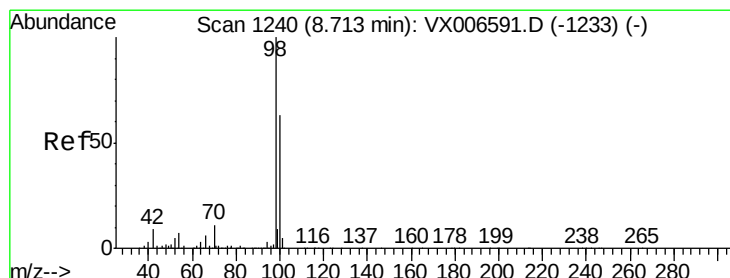
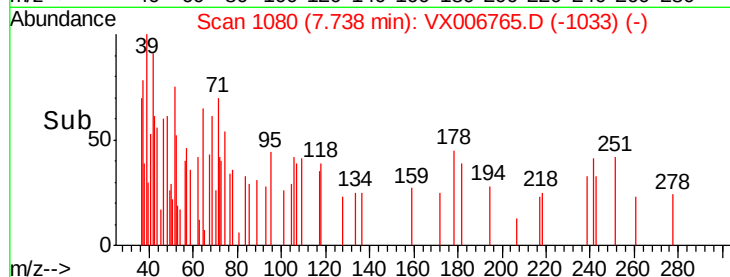
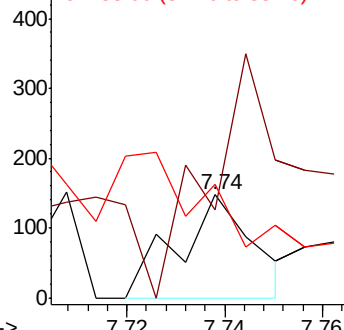
58 116.7 51.0 76.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.390 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006765.D

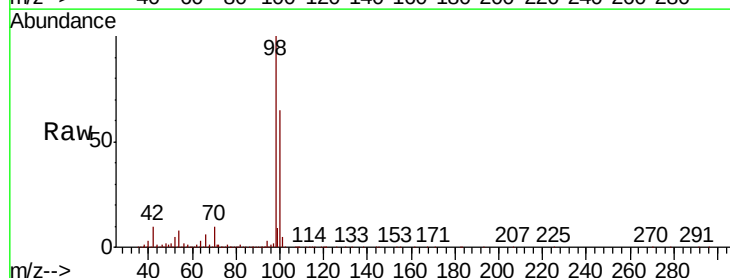
Acq: 22 Dec 2018 12:10

Tgt Ion: 98 Resp: 1193696

Ion Ratio Lower Upper

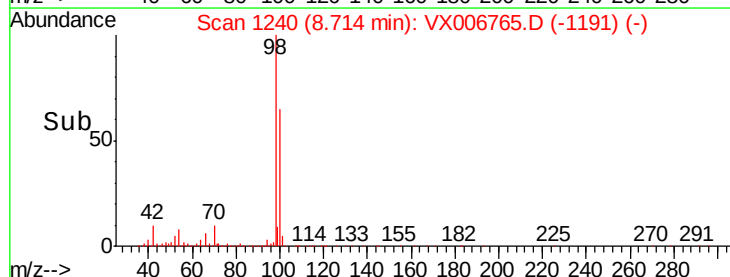
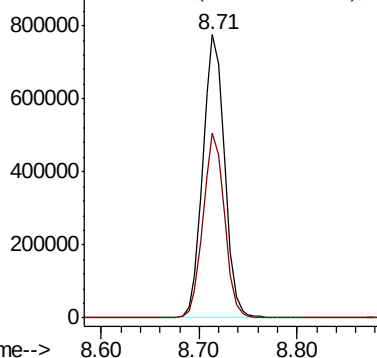
98 100

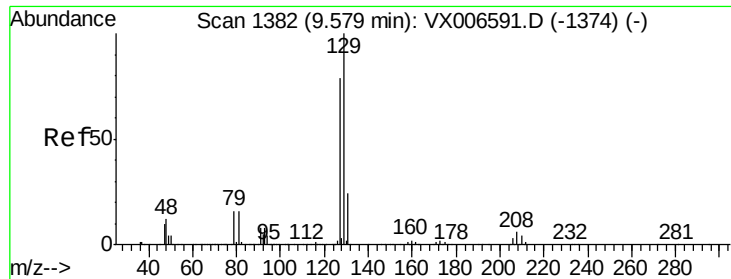
100 64.4 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

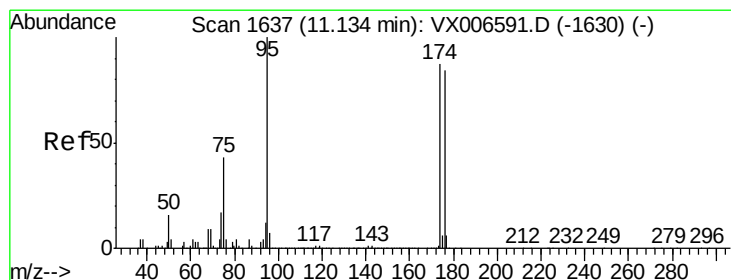
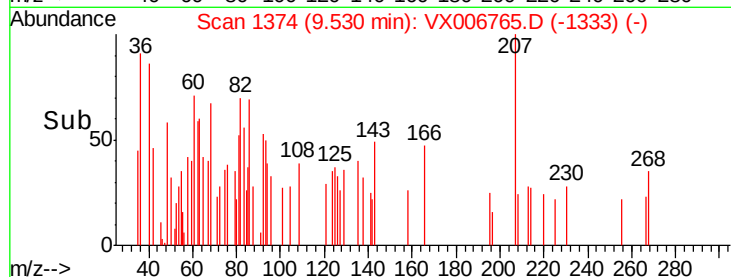
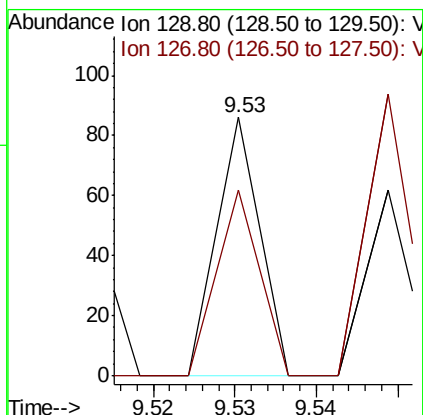
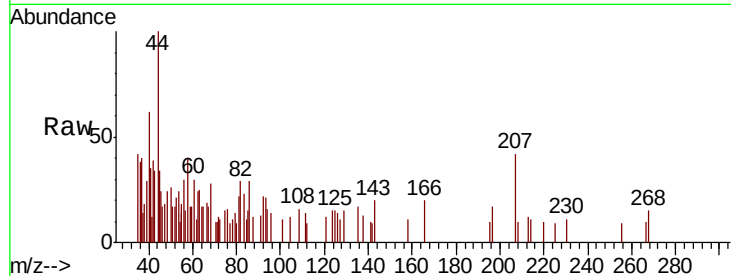




#60
 Dibromochloromethane
 Concen: 2.328 ug/l
 RT: 9.53 min Scan# 1374
 Delta R.T. -0.05 min
 Lab File: VX006765.D
 Acq: 22 Dec 2018 12:10

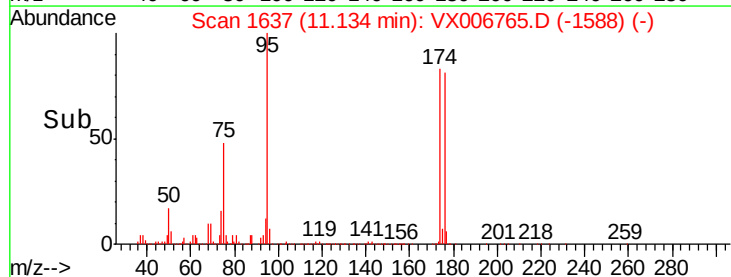
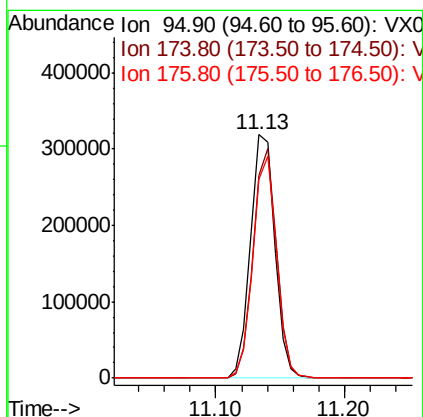
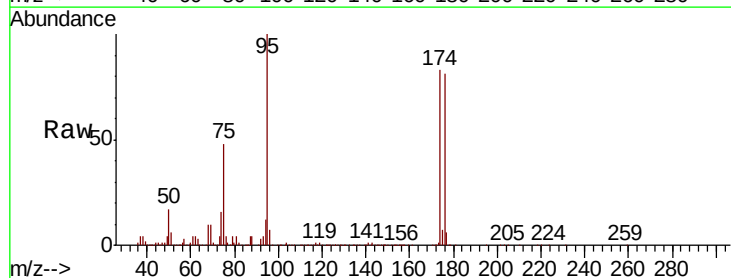
Instrument :
 MSVOA_X
 ClientSampled :
 TB

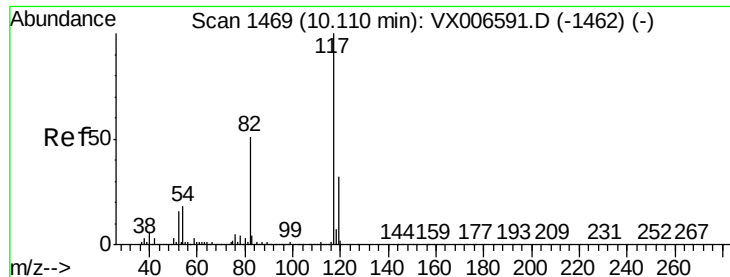
Tot Ion:129 Resp: 31
 Ion Ratio Lower Upper
 129 100
 127 74.2 39.3 117.8



#62
 4-Bromofluorobenzene
 Concen: 46.599 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX006765.D
 Acq: 22 Dec 2018 12:10

Tgt Ion: 95 Resp: 412483
 Ion Ratio Lower Upper
 95 100
 174 90.7 0.0 182.2
 176 88.3 0.0 178.8

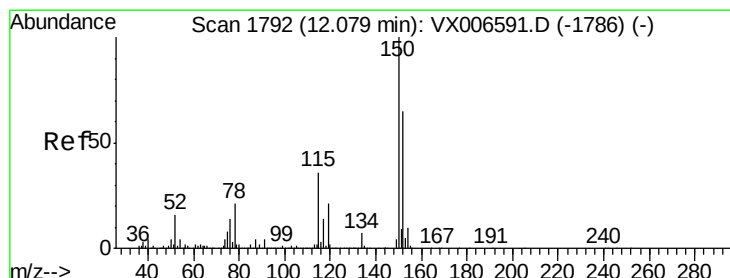
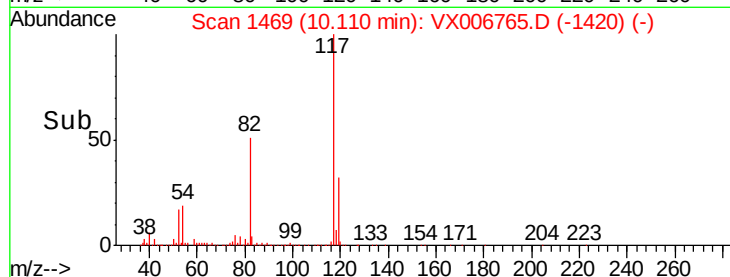
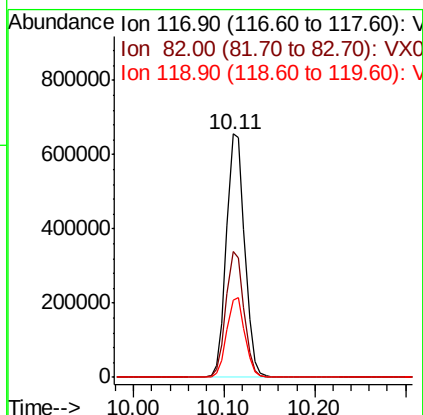
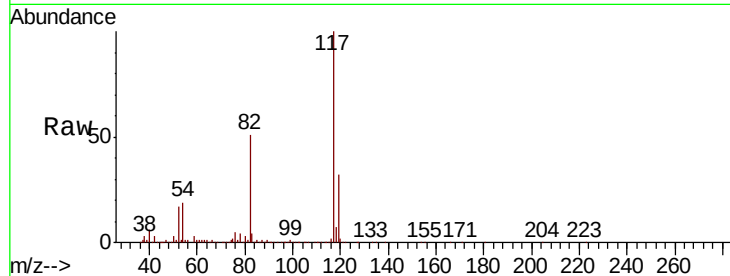




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX006765.D
Acq: 22 Dec 2018 12:10

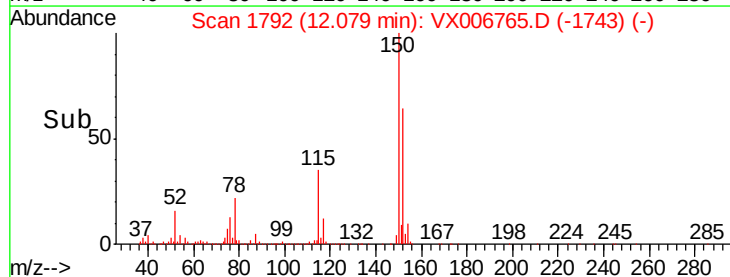
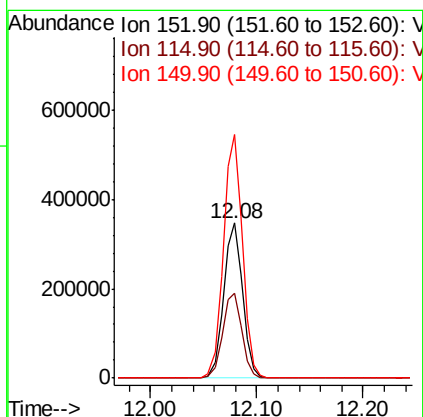
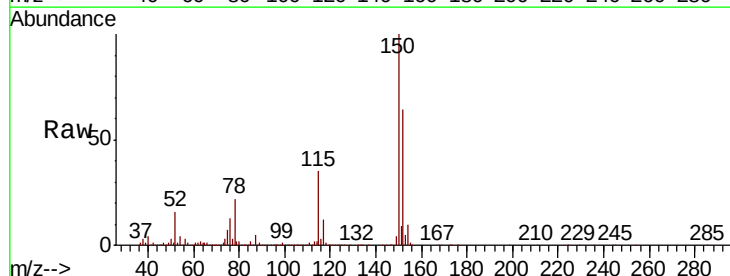
Instrument :
MSVOA_X
ClientSampled :
TB

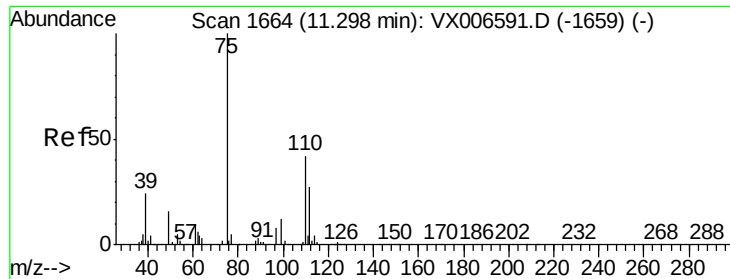
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.4	41.0	61.6
119	31.7	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006765.D
Acq: 22 Dec 2018 12:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.7	39.1	117.2
150	156.8	0.0	344.8

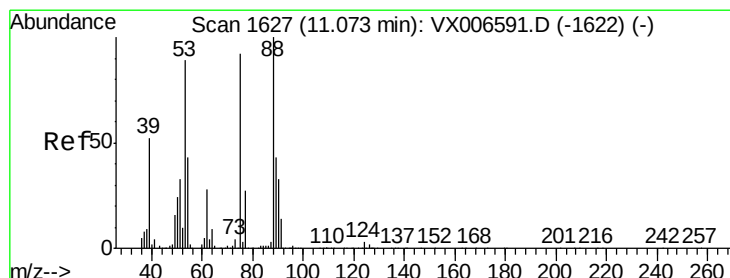
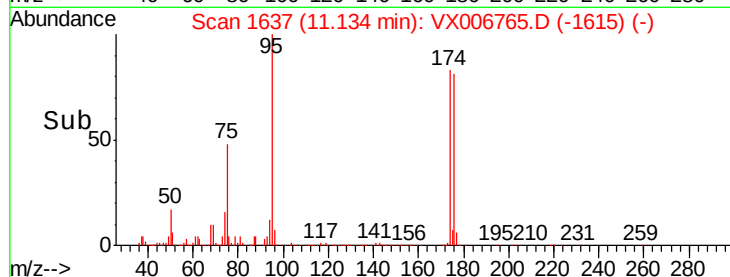
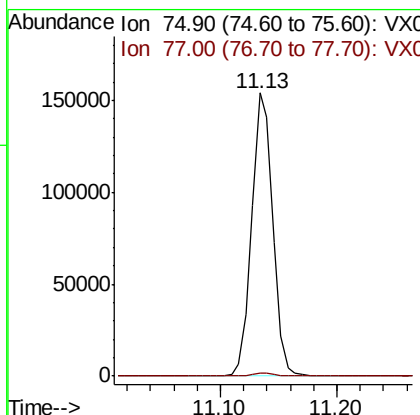
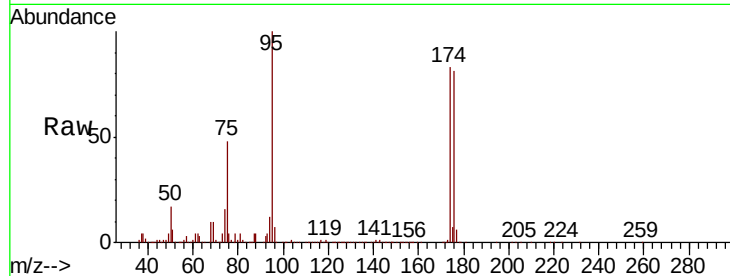




#76
 1,2,3-Trichloropropane
 Concen: 24.259 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006765.D
 Acq: 22 Dec 2018 12:10

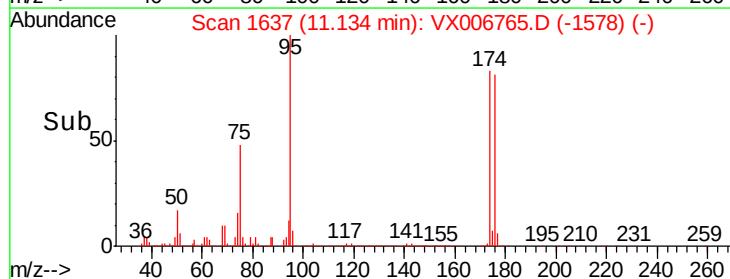
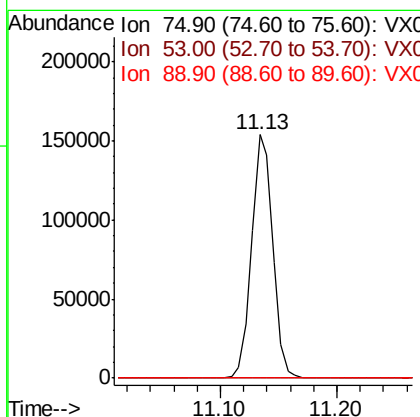
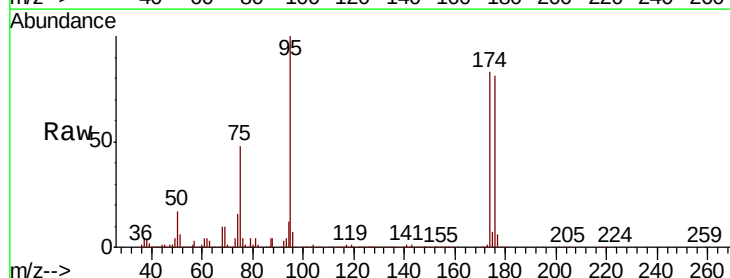
Instrument :
 MSVOA_X
 ClientSampleId :
 TB

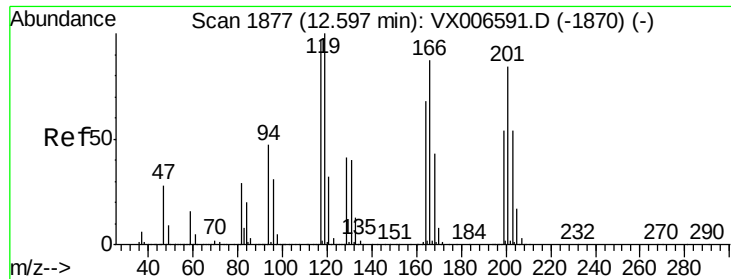
Tot Ion: 75 Resp: 194590
 Ion Ratio Lower Upper
 75 100
 77 1.1 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.809 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006765.D
 Acq: 22 Dec 2018 12:10

Tgt Ion: 75 Resp: 194590
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.301 ug/l

RT: 12.60 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX006765.D

Acq: 22 Dec 2018 12:10

Instrument :

MSVOA_X

ClientSampleId :

TB

Tot Ion:117 Resp: 33

Ion Ratio Lower Upper

117 100

201 66.7 42.9 128.7

