

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020719\
 Data File : VX007415.D
 Acq On : 07 Feb 2019 10:43
 Operator : JC/SP
 Sample : VX0207WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 08 22:04:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	541514	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	835063	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	776292	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	371975	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	293131	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
35) Dibromofluoromethane	5.50	113	268232	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	
50) Toluene-d8	8.71	98	997104	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
62) 4-Bromofluorobenzene	11.13	95	345464	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	

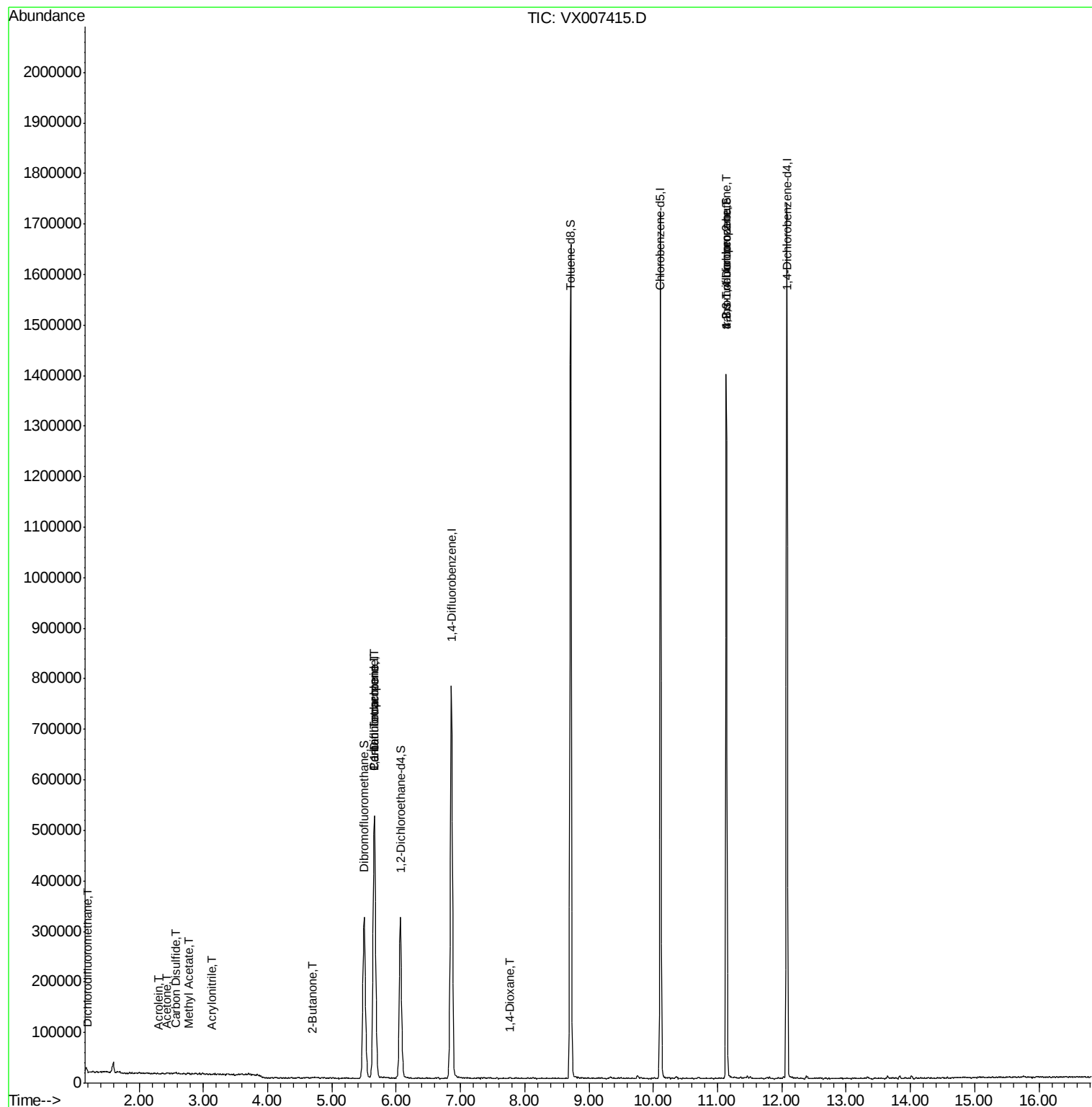
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	289	0.221	ug/l	87
5) Bromomethane	1.67	94	1126	Below Cal	#	56
13) Acrolein	2.30	56	523	0.938	ug/l	85
15) Acrylonitrile	3.14	53	1155	0.393	ug/l #	72
16) Acetone	2.44	43	1061	0.403	ug/l #	70
17) Carbon Disulfide	2.57	76	3130	2.343	ug/l #	79
18) Methyl Acetate	2.77	43	2140	0.901	ug/l #	71
20) Methylene Chloride	2.85	84	784	Below Cal	#	79
25) 2-Butanone	4.70	43	1011	0.270	ug/l #	47
36) 1,1-Dichloropropene	5.66	75	35961	4.800	ug/l #	50
38) Carbon Tetrachloride	5.66	117	48261	6.639	ug/l #	17
49) 1,4-Dioxane	7.77	88	224	8.552	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	167017	23.083	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	167017	69.543	ug/l #	9

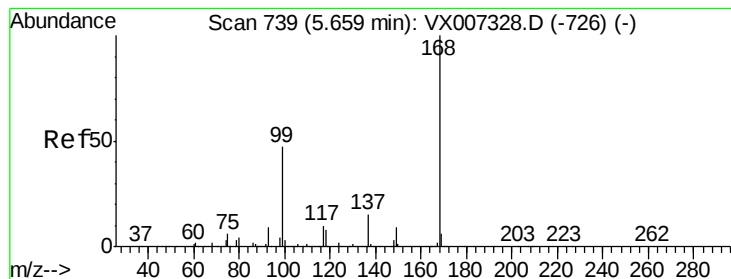
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

Instrument :

MSVOA_X

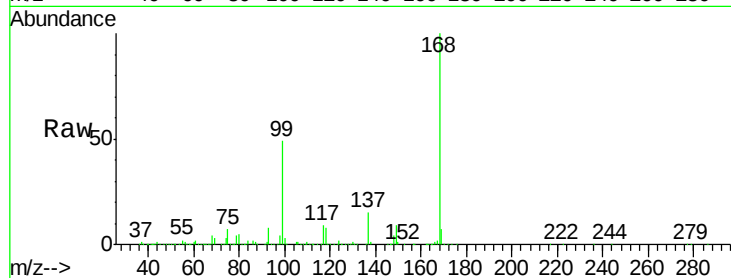
ClientSampleId :

Tot Ion:168 Resp: 541514

Ion Ratio Lower Upper

168 100

99 48.8 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

200000

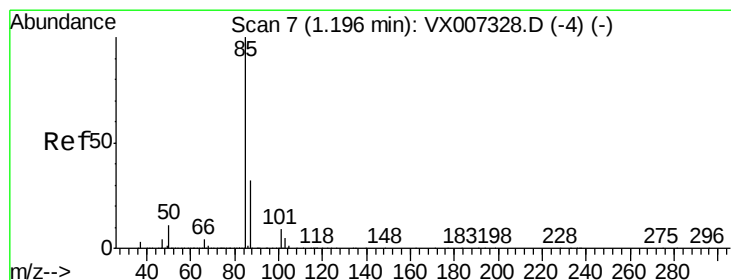
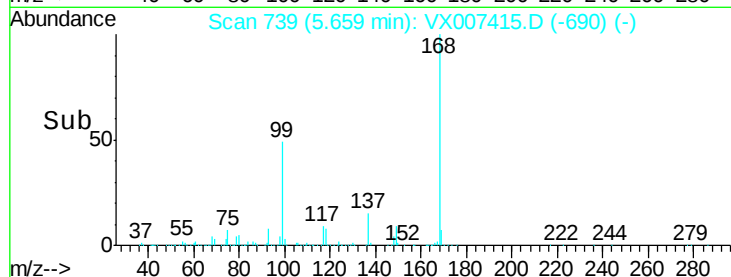
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.221 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX007415.D

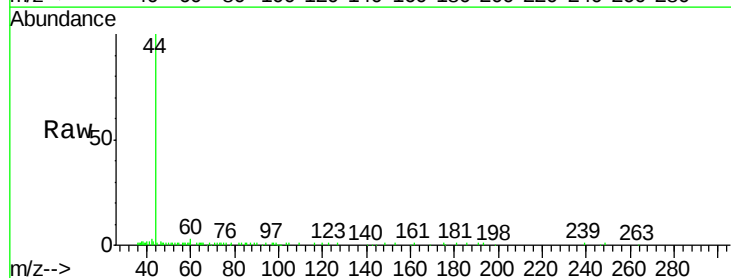
Acq: 07 Feb 2019 10:43

Tgt Ion: 85 Resp: 289

Ion Ratio Lower Upper

85 100

87 24.6 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

300

250

200

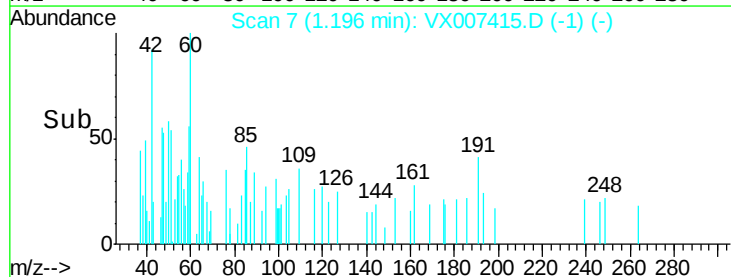
150

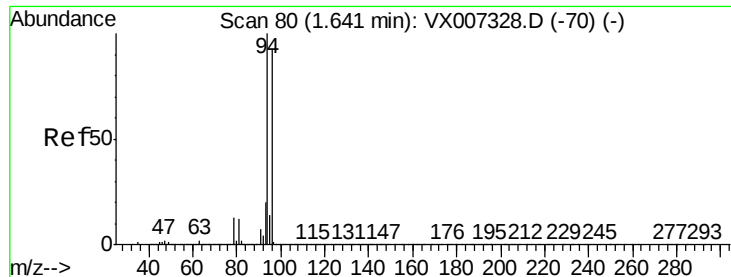
100

50

0

Time--> 1.18 1.20 1.22





#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 85

Delta R.T. 0.03 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

Instrument :

MSVOA_X

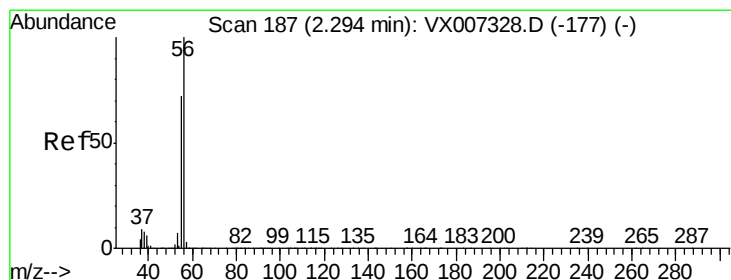
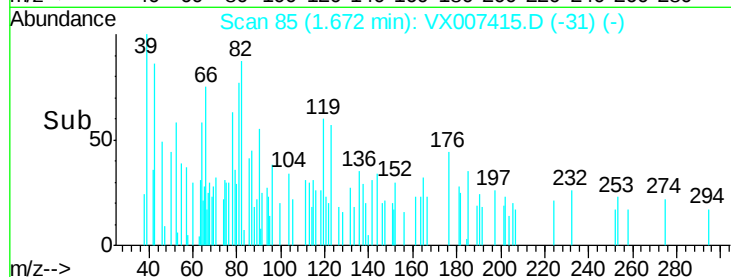
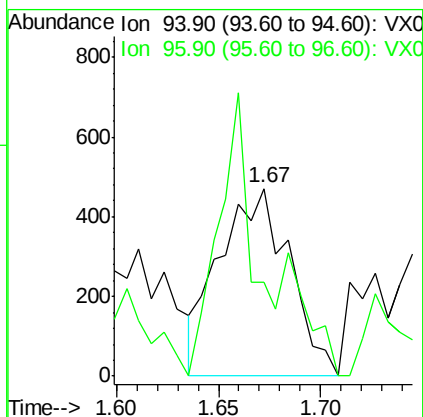
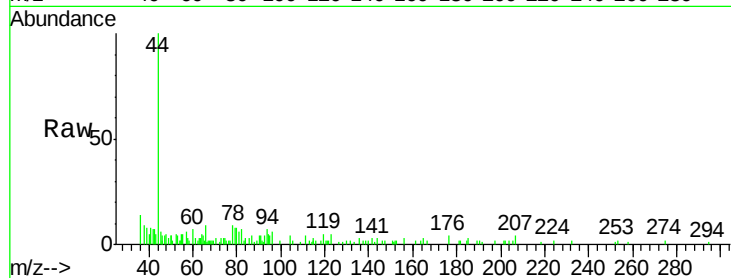
ClientSampled :

Tot Ion: 94 Resp: 1126

Ion Ratio Lower Upper

94 100

96 49.9 73.9 110.9#



#13

Acrolein

Concen: 0.938 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX007415.D

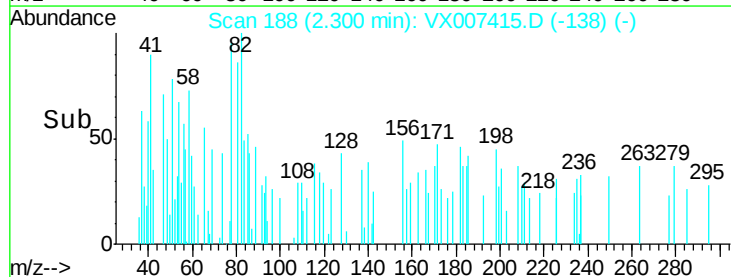
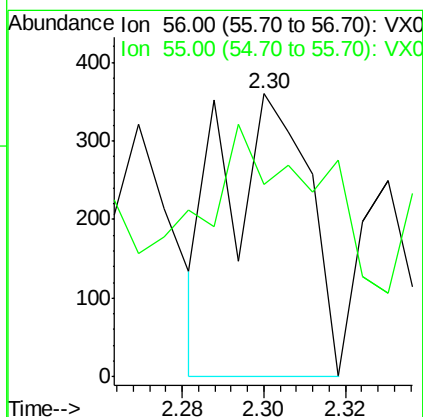
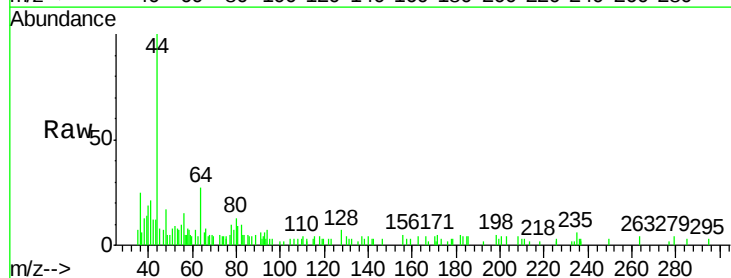
Acq: 07 Feb 2019 10:43

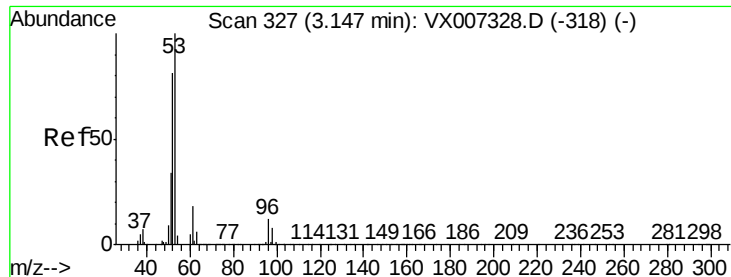
Tgt Ion: 56 Resp: 523

Ion Ratio Lower Upper

56 100

55 83.7 56.9 85.3





#15

Acrylonitrile

Concen: 0.393 ug/l

RT: 3.14 min Scan# 326

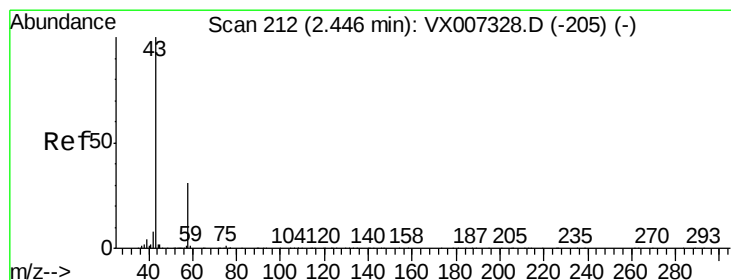
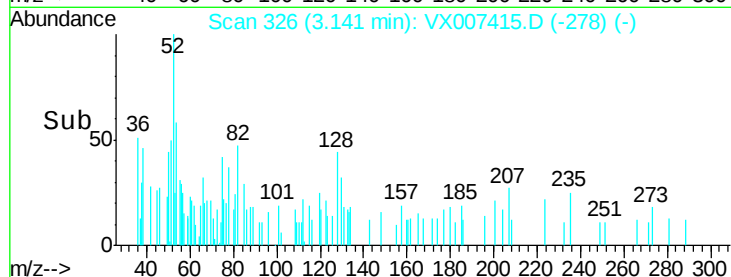
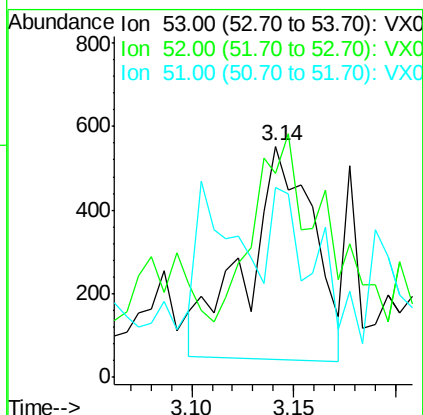
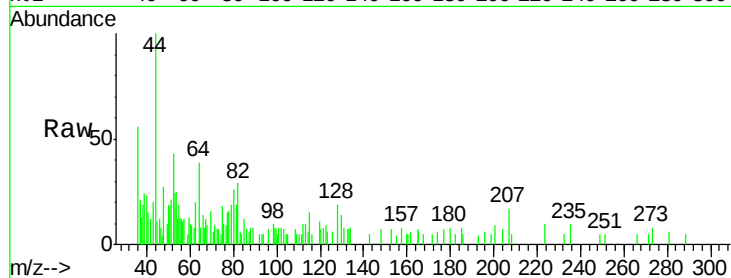
Delta R.T. -0.01 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	53	Resp:	1155
Ion	Ratio	Lower	Upper
53	100		
52	111.6	66.4	99.6#
51	47.3	28.4	42.6#



#16

Acetone

Concen: 0.403 ug/l

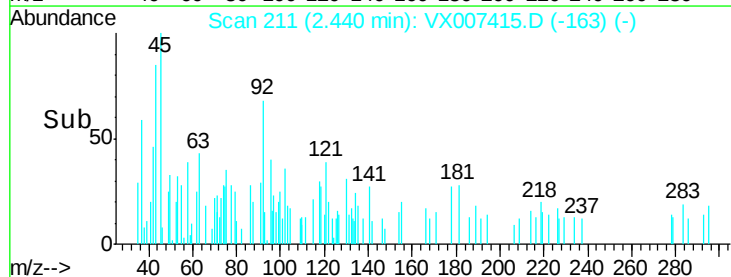
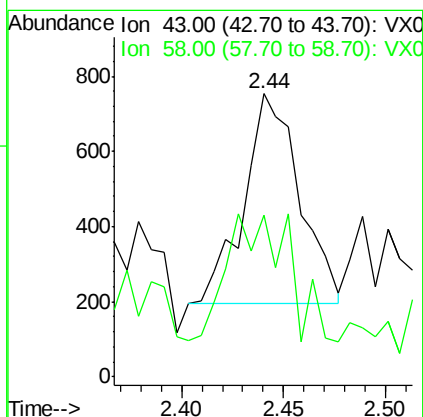
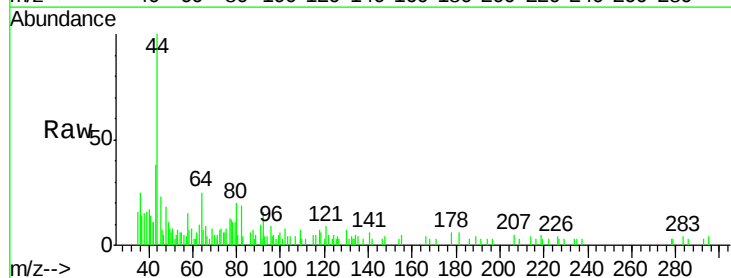
RT: 2.44 min Scan# 211

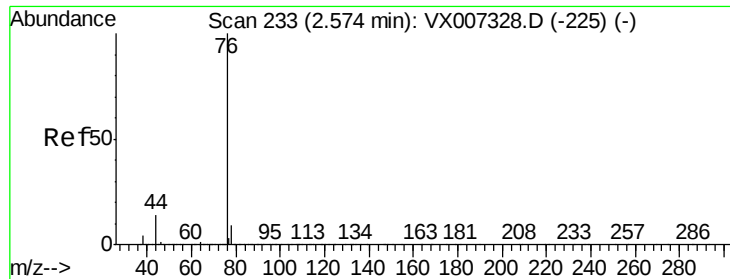
Delta R.T. -0.01 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

Tgt Ion:	43	Resp:	1061
Ion	Ratio	Lower	Upper
43	100		
58	47.8	24.9	37.3#





#17

Carbon Disulfide

Concen: 2.343 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

Instrument :

MSVOA_X

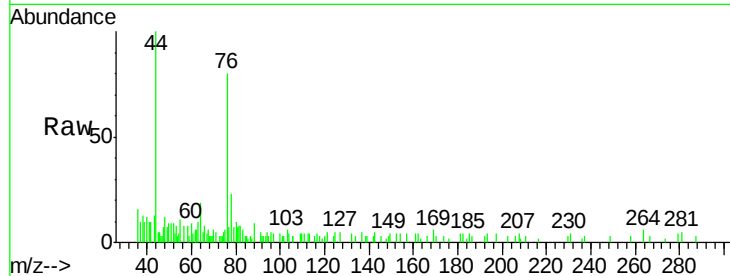
ClientSampleId :

Tot Ion: 76 Resp: 3130

Ion Ratio Lower Upper

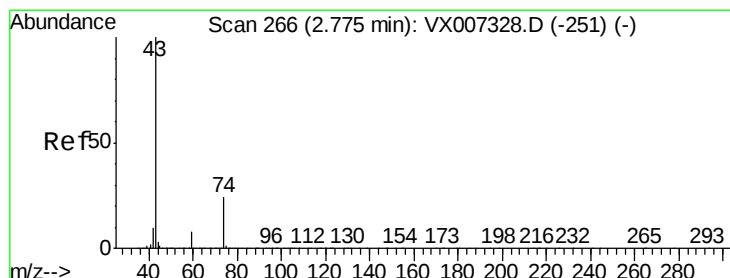
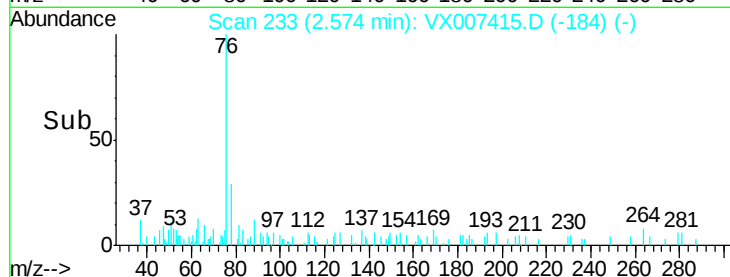
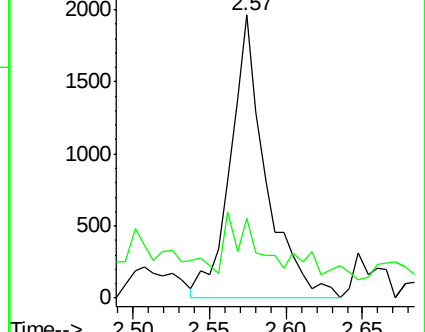
76 100

78 16.6 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.901 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX007415.D

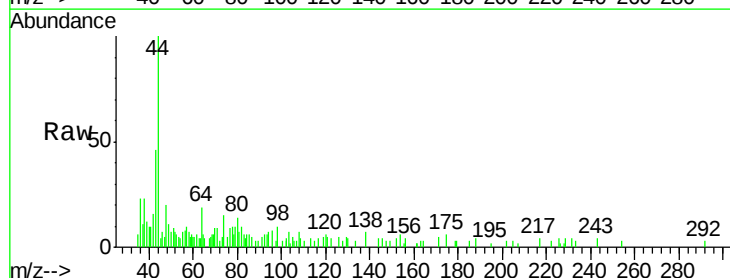
Acq: 07 Feb 2019 10:43

Tgt Ion: 43 Resp: 2140

Ion Ratio Lower Upper

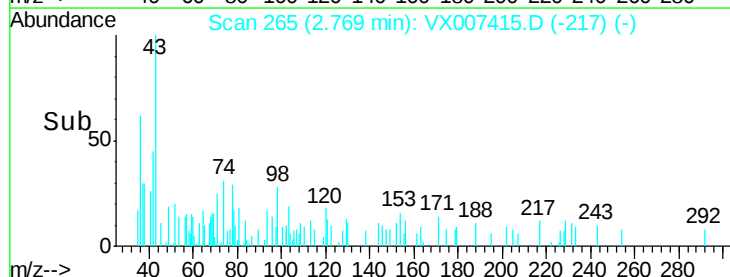
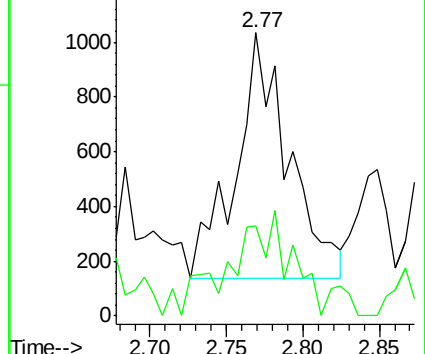
43 100

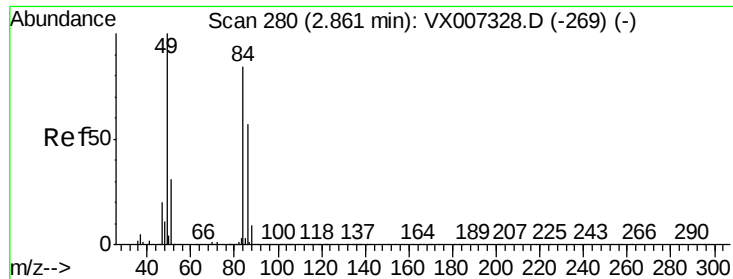
74 38.9 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

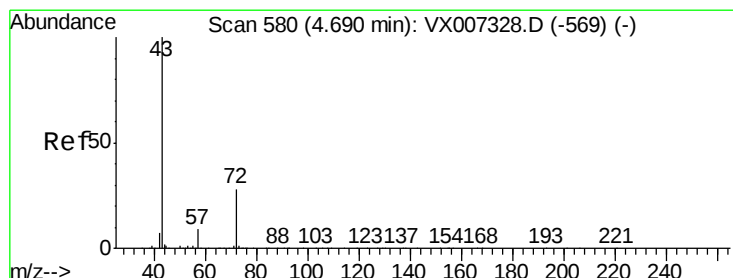
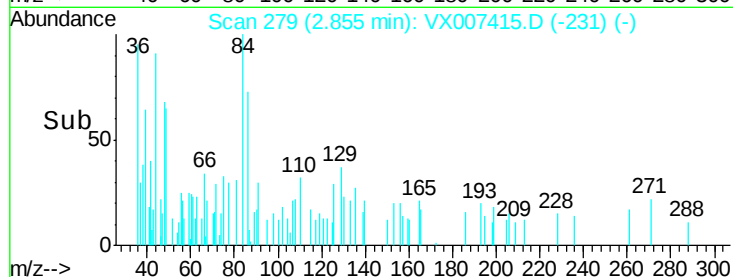
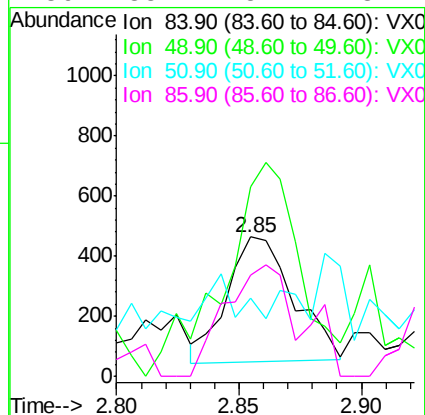
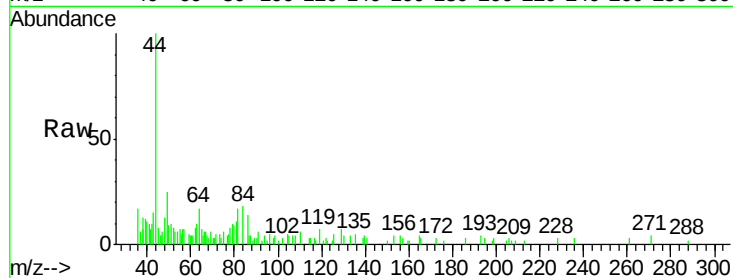




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007415.D
Acq: 07 Feb 2019 10:43

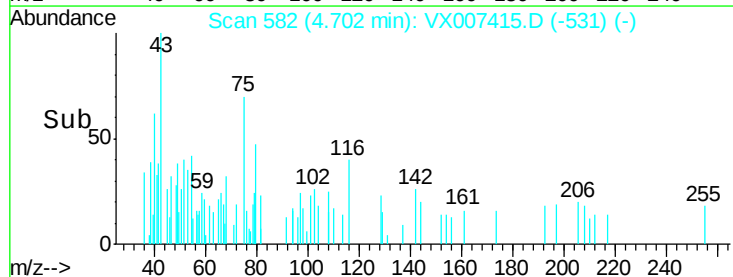
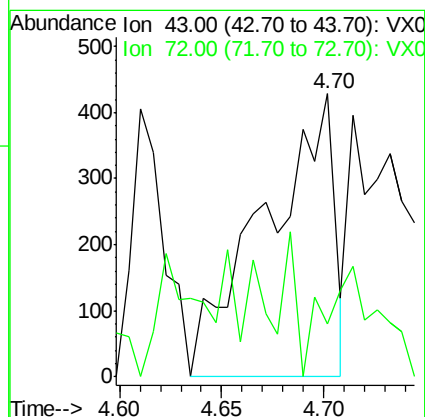
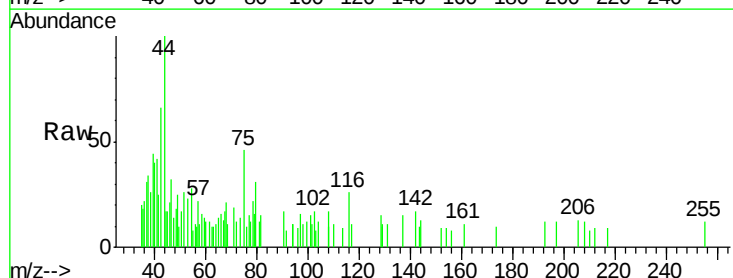
Instrument :
MSVOA_X
ClientSampleId :

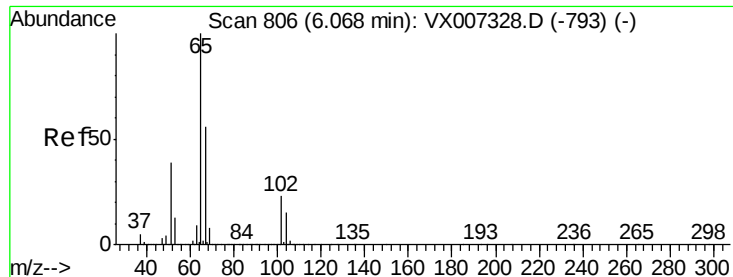
Tot Ion: 84 Resp: 784
Ion Ratio Lower Upper
84 100
49 99.0 94.8 142.2
51 19.1 29.8 44.8#
86 85.2 54.1 81.1#



#25
2-Butanone
Concen: 0.270 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX007415.D
Acq: 07 Feb 2019 10:43

Tgt Ion: 43 Resp: 1011
Ion Ratio Lower Upper
43 100
72 0.0 22.2 33.2#





#33

1,2-Dichloroethane-d4

Concen: 50.999 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

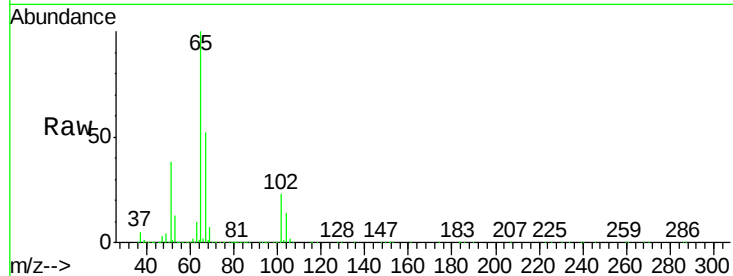
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 65 Resp: 293131

Ion Ratio Lower Upper

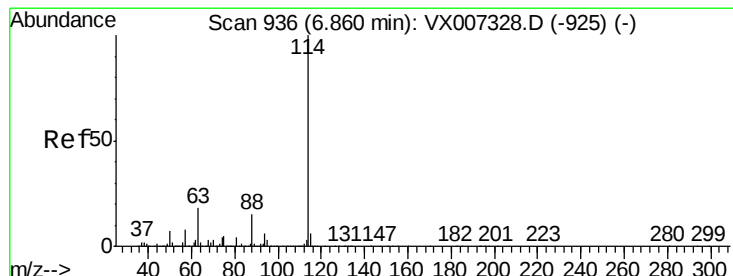
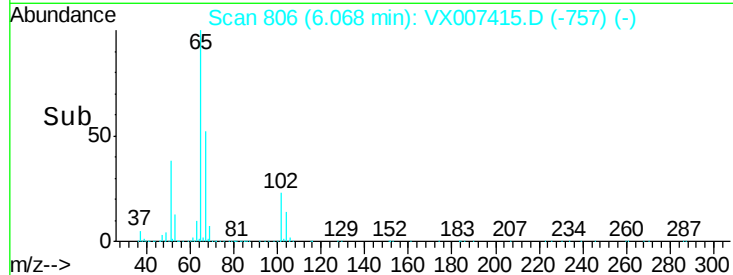
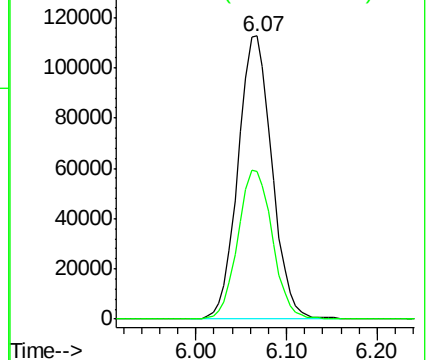
65 100

67 52.9 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

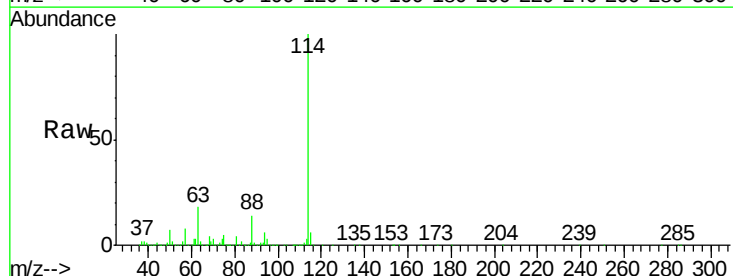
Tgt Ion: 114 Resp: 835063

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.6

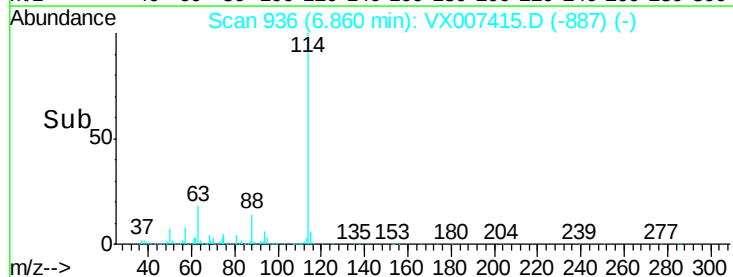
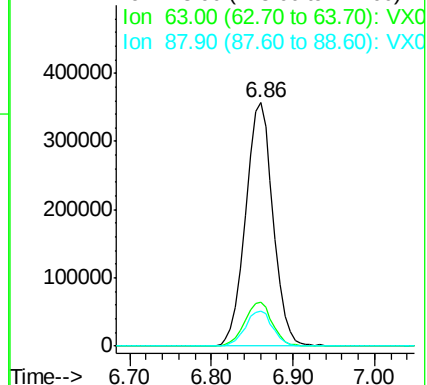
88 14.4 0.0 29.6

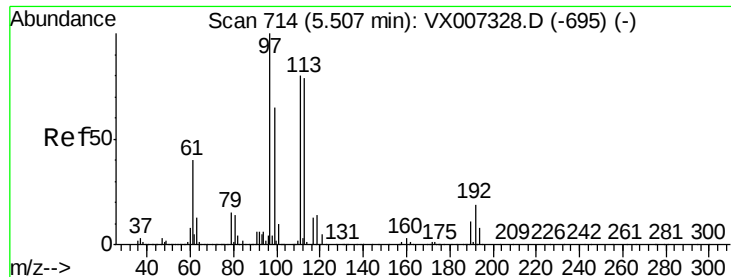


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.367 ug/l

RT: 5.50 min Scan# 713

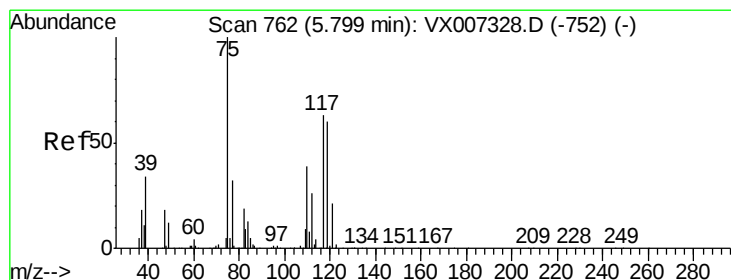
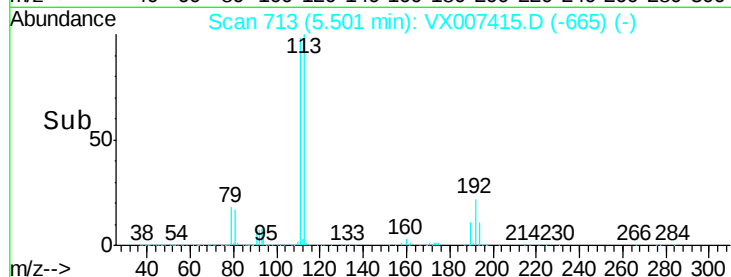
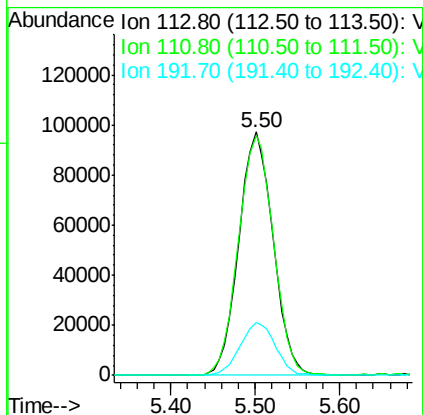
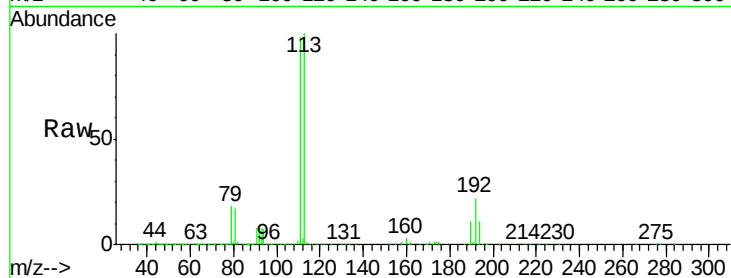
Delta R.T. -0.01 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:113	Resp:	268232
Ion	Ratio	Lower Upper
113	100	
111	100.8	81.8 122.8
192	22.4	18.5 27.7



#36

1,1-Dichloropropene

Concen: 4.800 ug/l

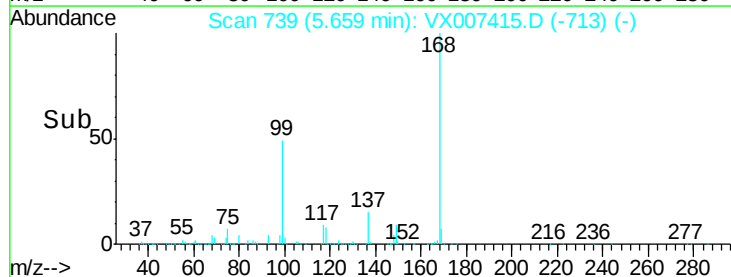
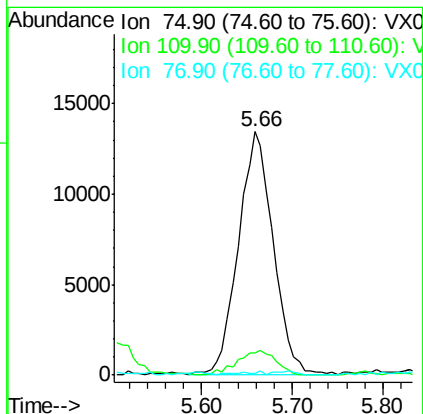
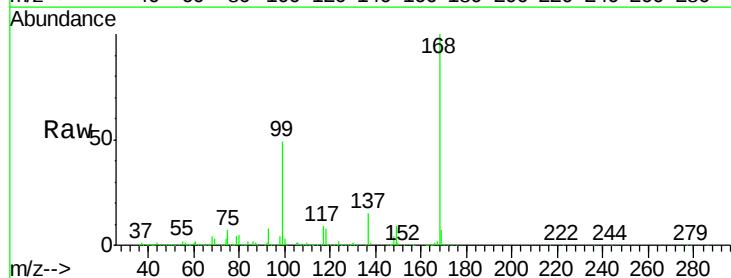
RT: 5.66 min Scan# 739

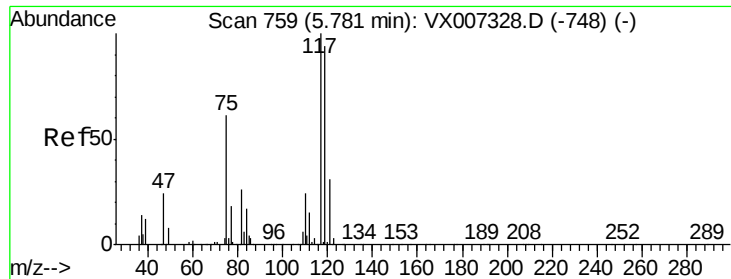
Delta R.T. -0.14 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

Tgt Ion: 75	Resp:	35961
Ion	Ratio	Lower Upper
75	100	
110	11.1	20.0 59.9#
77	0.8	24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.639 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

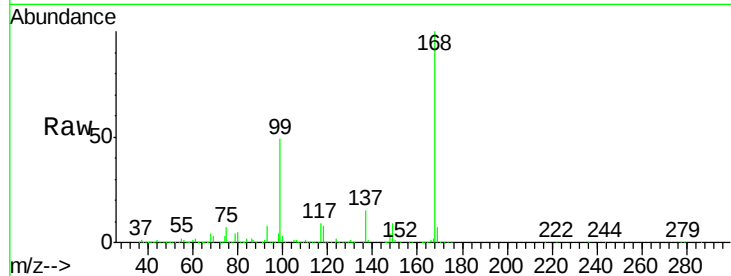
Instrument :

MSVOA_X

ClientSampled :

Tot Ion:117 Resp: 48261

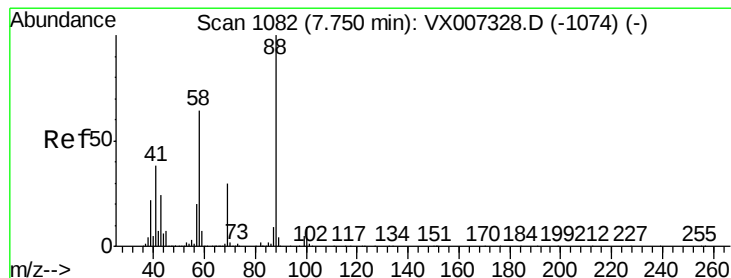
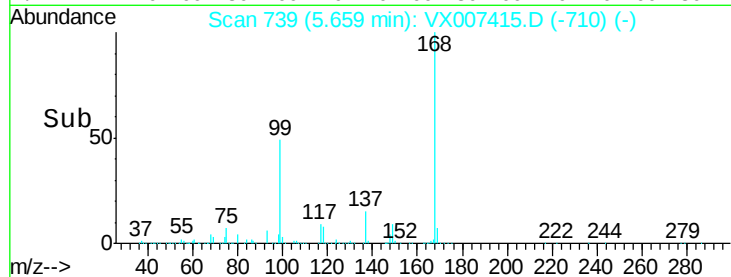
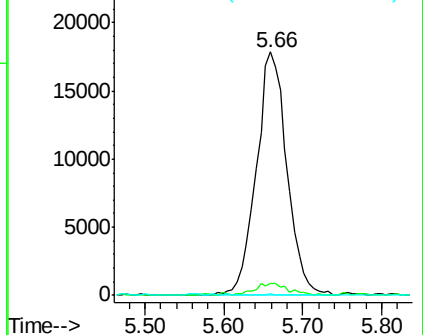
Ion	Ratio	Lower	Upper
117	100		
119	4.8	75.3	112.9#
121	0.5	25.0	37.4#



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



#49

1,4-Dioxane

Concen: 8.552 ug/l

RT: 7.77 min Scan# 1086

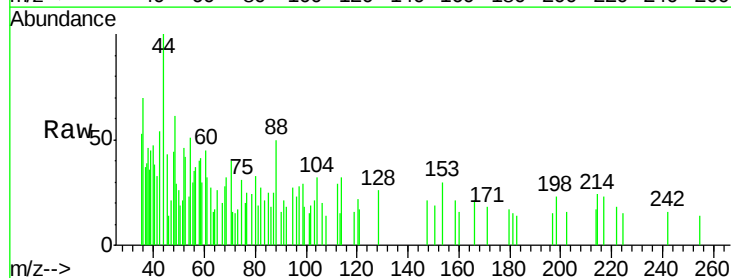
Delta R.T. 0.02 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

Tgt Ion: 88 Resp: 224

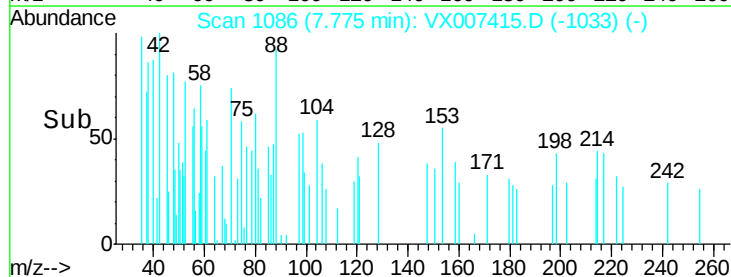
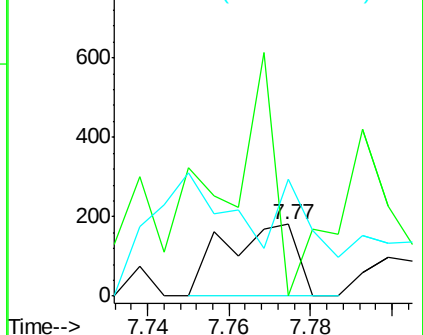
Ion	Ratio	Lower	Upper
88	100		
43	158.5	24.2	36.4#
58	0.0	53.0	79.4#

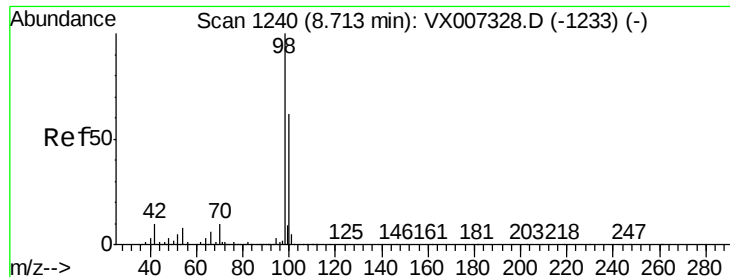


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.462 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

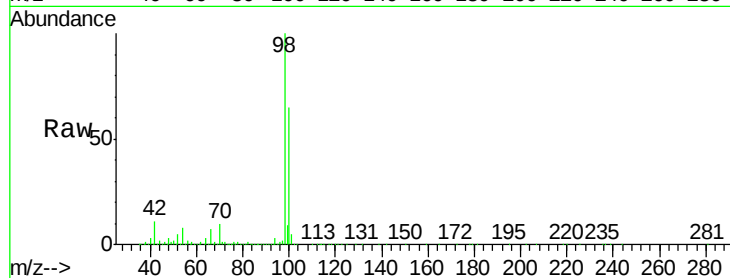
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 997104

Ion Ratio Lower Upper

98 100

100 64.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

600000

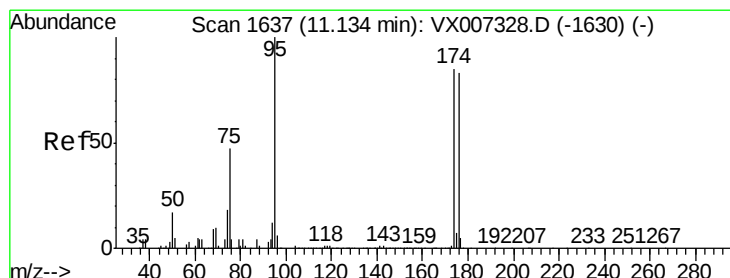
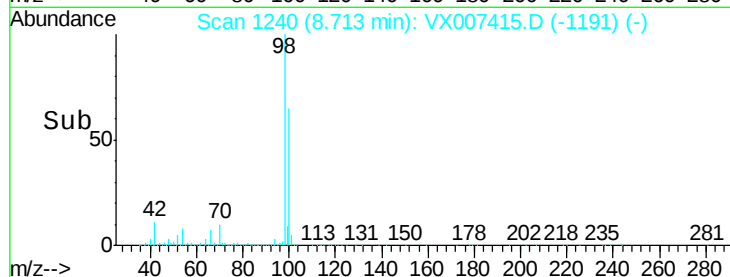
400000

200000

0

Time-->

8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 46.937 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

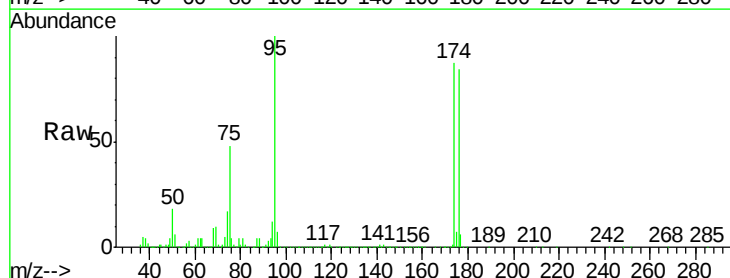
Tgt Ion: 95 Resp: 345464

Ion Ratio Lower Upper

95 100

174 94.9 0.0 189.2

176 91.1 0.0 186.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

300000

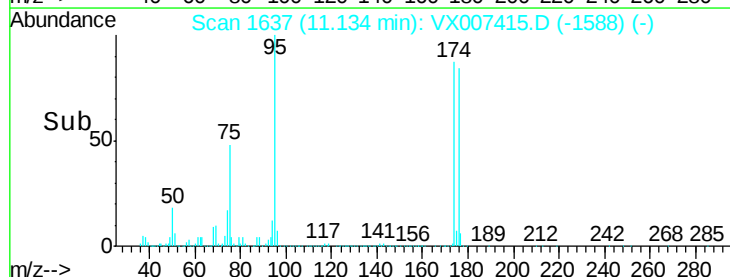
200000

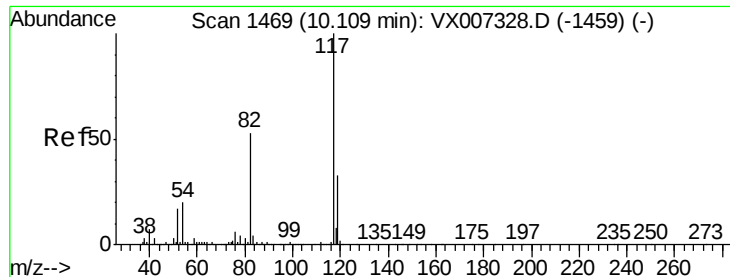
100000

0

Time-->

11.10 11.20





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

Instrument :

MSVOA_X

ClientSampleId :

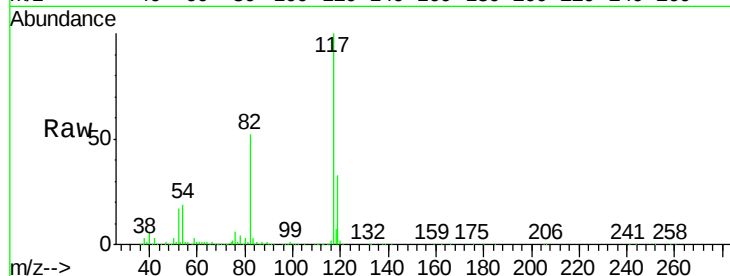
Tot Ion:117 Resp: 776292

Ion Ratio Lower Upper

117 100

82 51.7 42.1 63.1

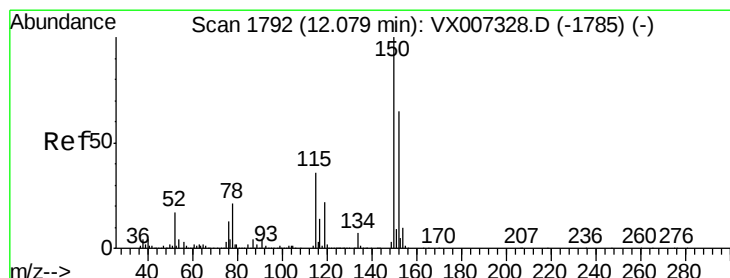
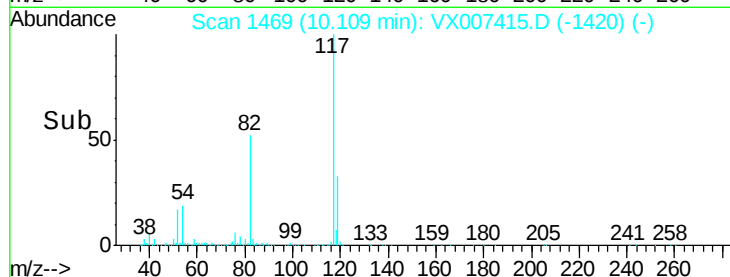
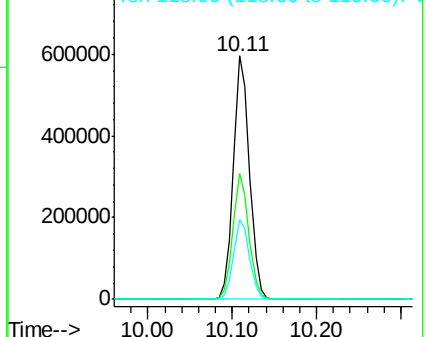
119 32.7 26.5 39.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007415.D

Acq: 07 Feb 2019 10:43

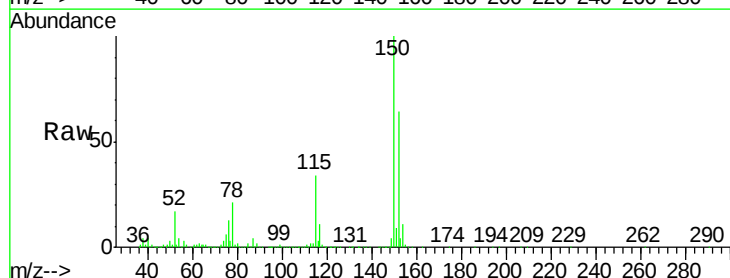
Tgt Ion:152 Resp: 371975

Ion Ratio Lower Upper

152 100

115 54.2 38.0 114.0

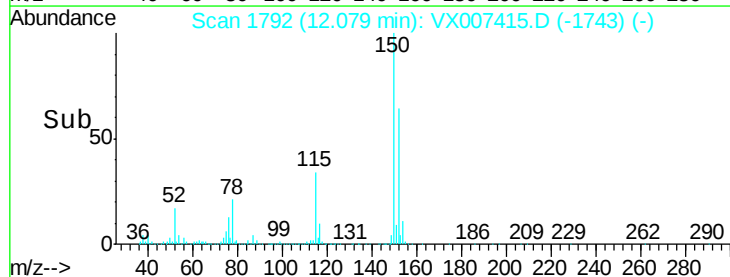
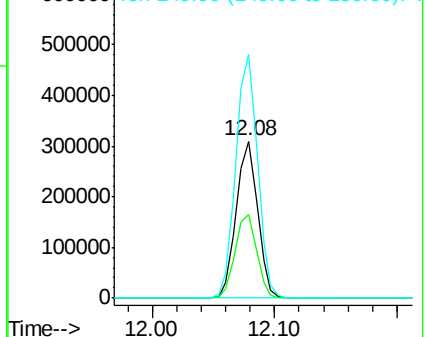
150 157.5 0.0 346.4

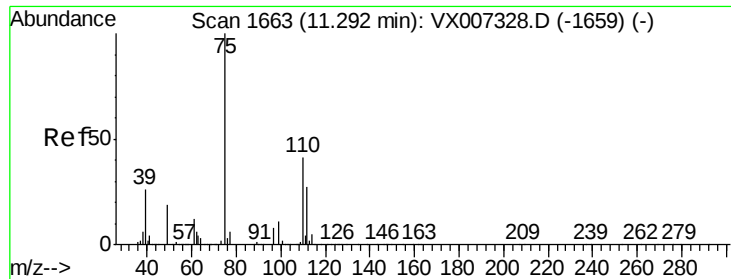


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

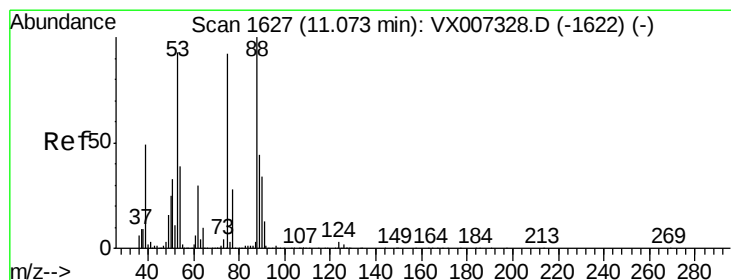
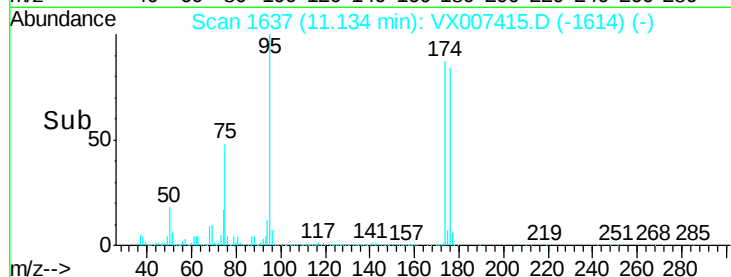
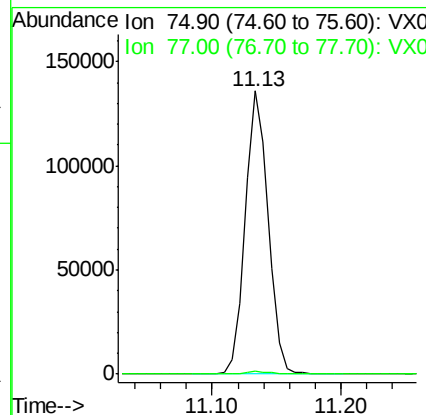
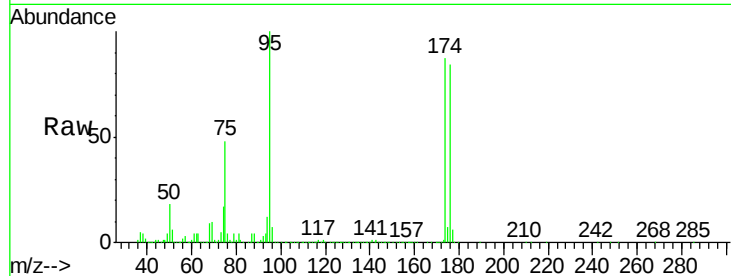




#76
 1,2,3-Trichloropropane
 Concen: 23.083 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007415.D
 Acq: 07 Feb 2019 10:43

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 75 Resp: 167017
 Ion Ratio Lower Upper
 75 100
 77 1.1 23.0 69.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.543 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX007415.D
 Acq: 07 Feb 2019 10:43

Tgt Ion: 75 Resp: 167017
 Ion Ratio Lower Upper
 75 100
 53 0.2 81.0 121.6#
 89 0.1 41.4 62.0#

