

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020819\
 Data File : VX007440.D
 Acq On : 08 Feb 2019 14:23
 Operator : JC/SP
 Sample : K1431-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 08 23:00:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 28 10:35:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	75753	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	401171	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	351926	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	153713	30.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.03%
60) 4-Bromofluorobenzene	11.13	95	149343	27.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.63%
63) Toluene-d8	8.71	98	475754	29.99	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.97%

Target Compounds

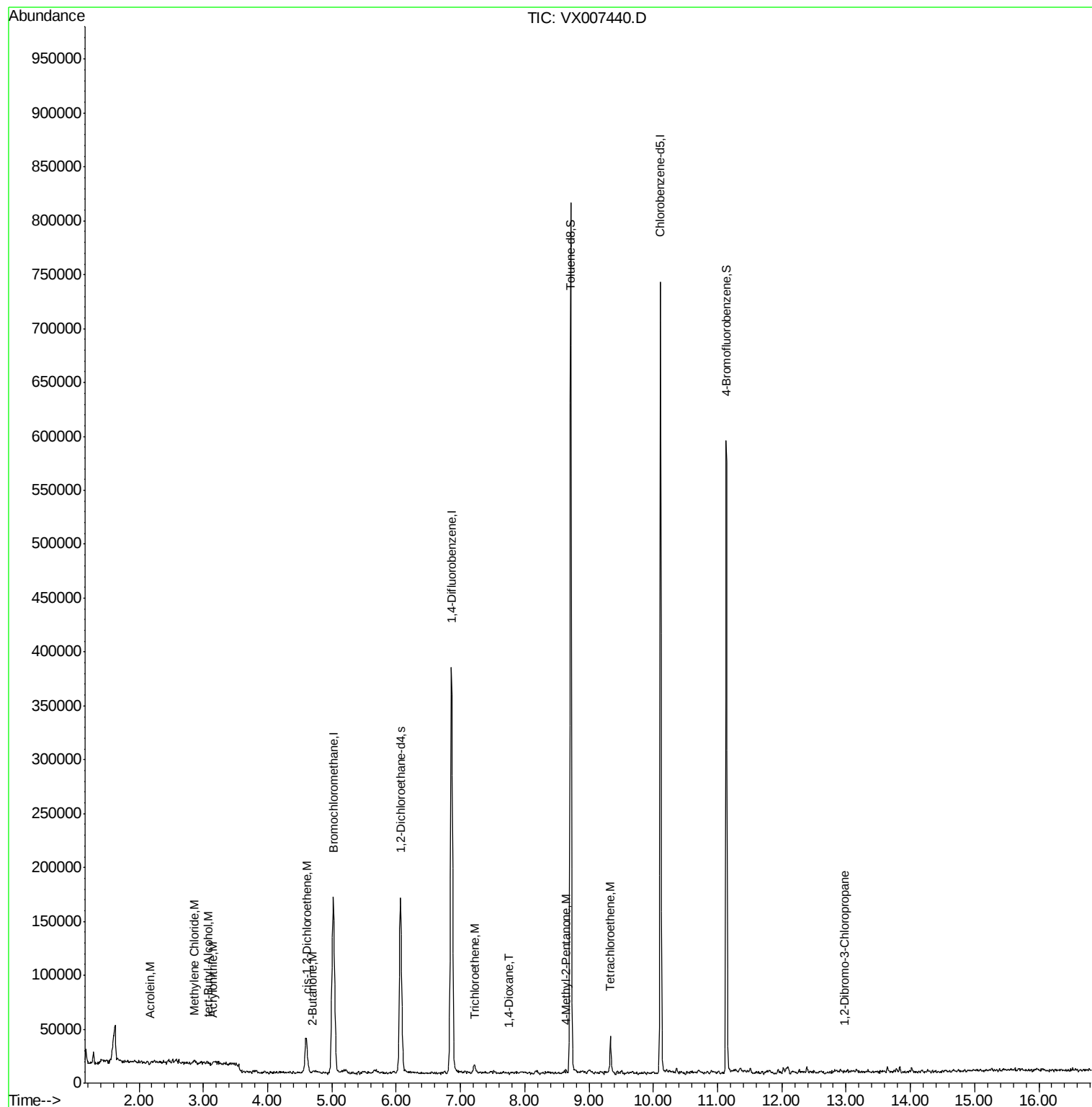
					Ovalue
13) Acrolein	2.16	56	403	0.836	ug/l 88
14) Acrylonitrile	3.15	53	520	0.209	ug/l 88
18) Methylene Chloride	2.85	84	1023	0.227	ug/l # 50
22) cis-1,2-Dichloroethene	4.60	96	23049	4.951	ug/l 90
23) tert-Butyl Alcohol	3.08	59	765	0.730	ug/l # 77
30) 2-Butanone	4.70	43	691	0.221	ug/l # 92
37) Trichloroethene	7.22	130	2983	0.627	ug/l 86
45) 1,4-Dioxane	7.76	88	104	0.942	ug/l # 7
58) 4-Methyl-2-Pentanone	8.65	43	2270	0.386	ug/l # 53
61) Tetrachloroethene	9.34	164	7035	1.434	ug/l 91
88) 1,2-Dibromo-3-Chloropropan	12.97	75	306	0.239	ug/l # 10

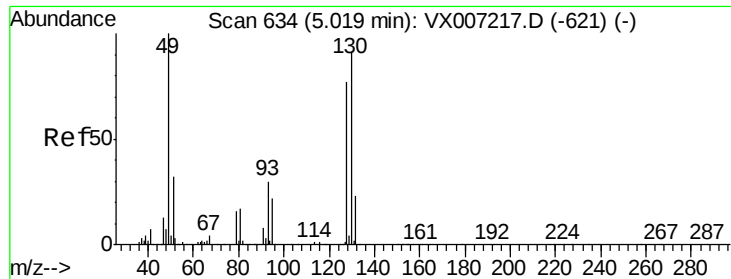
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX020819\
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Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Feb 08 23:00:10 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jan 28 10:35:22 2019
Response via : Initial Calibration



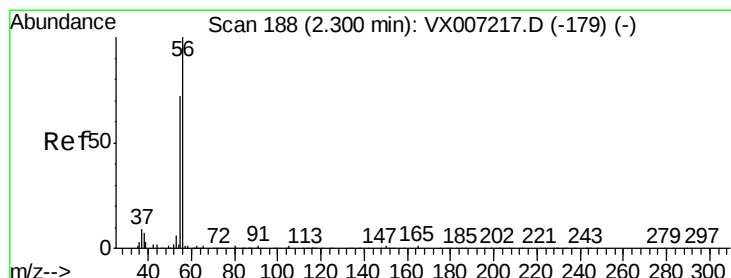
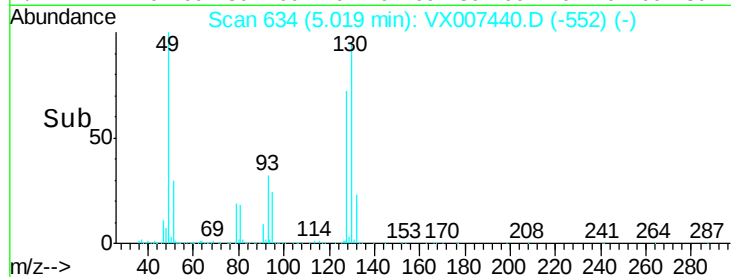
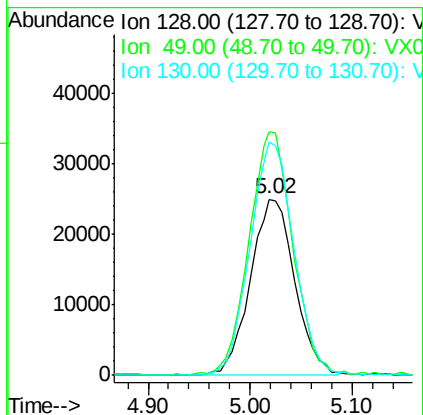
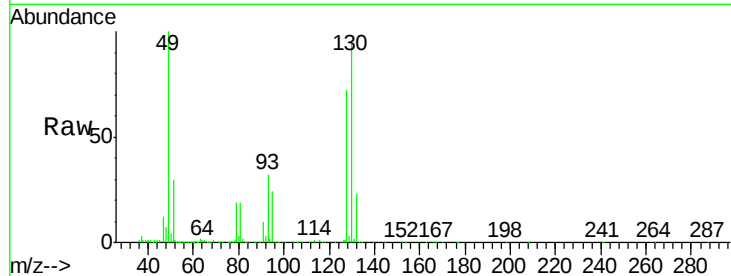


#1

Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.02 min Scan# 634
 Delta R.T. -0.00 min
 Lab File: VX007440.D
 Acq: 08 Feb 2019 14:23

Instrument :
 MSVOA_X
 ClientSampleId :

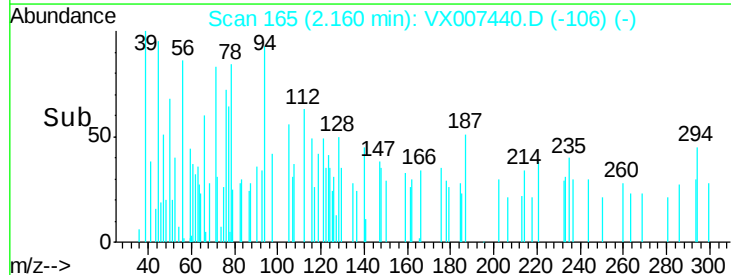
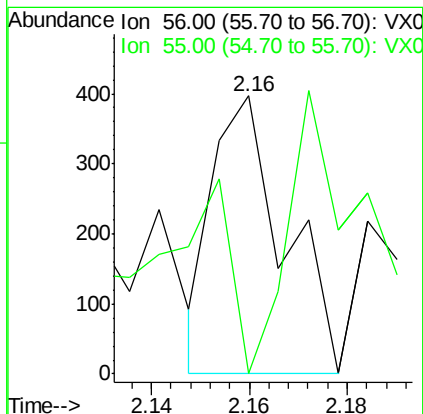
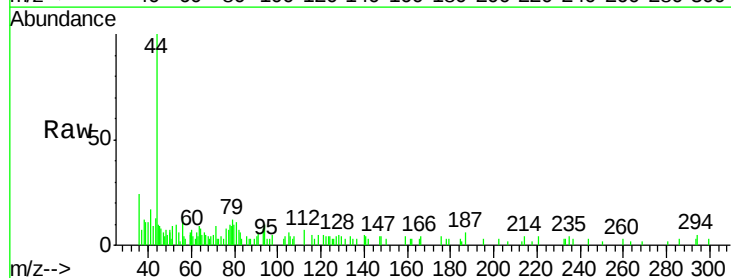
Tot Ion:128 Resp: 75753
 Ion Ratio Lower Upper
 128 100
 49 136.2 0.0 345.5
 130 130.9 0.0 320.0

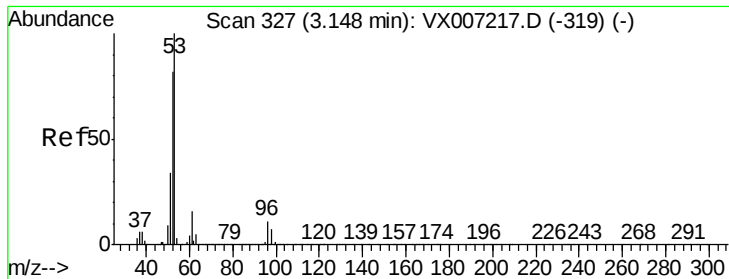


#13

Acrolein
 Concen: 0.836 ug/l
 RT: 2.16 min Scan# 165
 Delta R.T. -0.14 min
 Lab File: VX007440.D
 Acq: 08 Feb 2019 14:23

Tgt Ion: 56 Resp: 403
 Ion Ratio Lower Upper
 56 100
 55 82.9 58.6 87.8





#14

Acrylonitrile

Concen: 0.209 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX007440.D

Acq: 08 Feb 2019 14:23

Instrument :
MSVOA_X
ClientSampled :

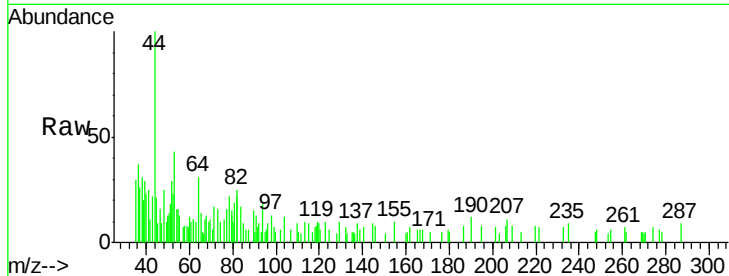
Tot Ion: 53 Resp: 520

Ion Ratio Lower Upper

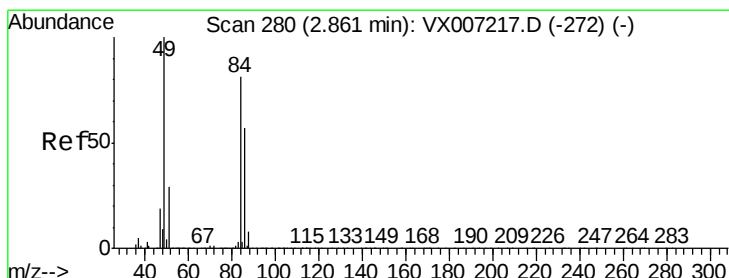
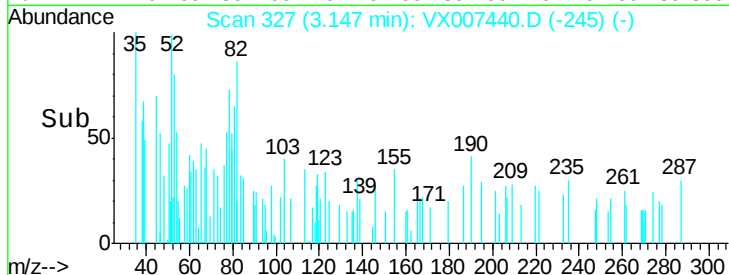
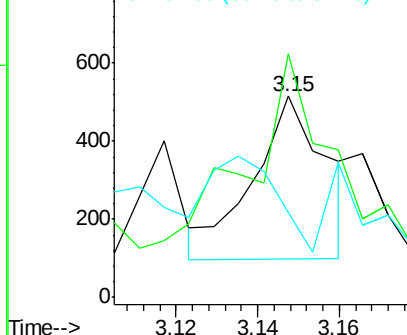
53 100

52 87.5 41.3 124.1

51 52.1 17.9 53.8



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



#18

Methylene Chloride

Concen: 0.227 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX007440.D

Acq: 08 Feb 2019 14:23

Tgt Ion: 84 Resp: 1023

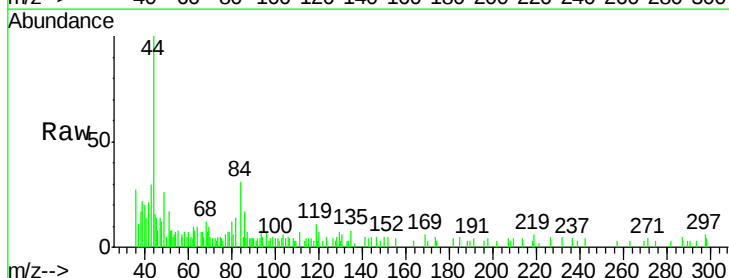
Ion Ratio Lower Upper

84 100

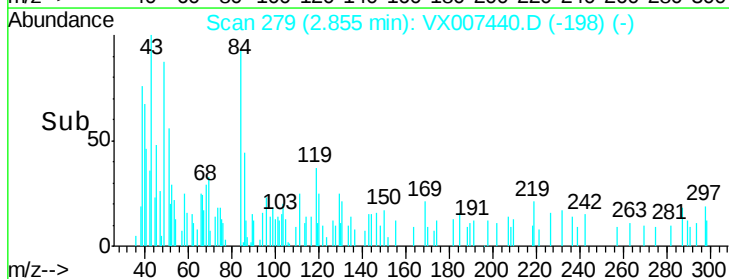
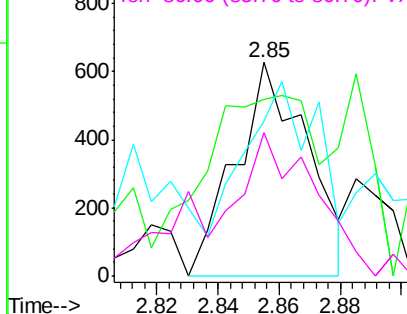
49 47.8 98.4 147.6#

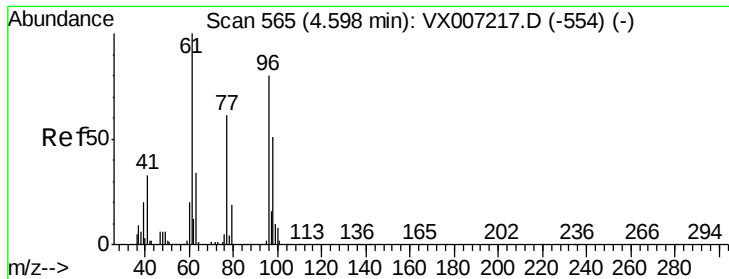
51 48.2 28.9 43.3#

86 41.3 56.1 84.1#



Abundance Ion 84.00 (83.70 to 84.70): VX0
Ion 49.00 (48.70 to 49.70): VX0
Ion 51.00 (50.70 to 51.70): VX0
Ion 86.00 (85.70 to 86.70): VX0



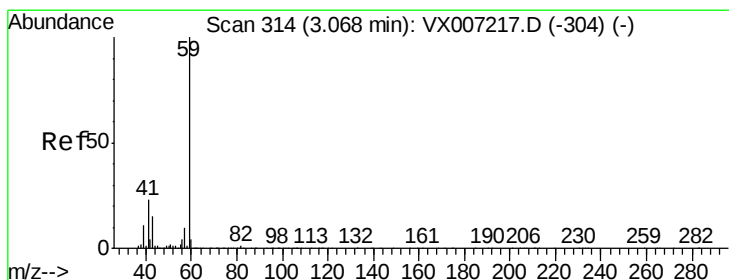
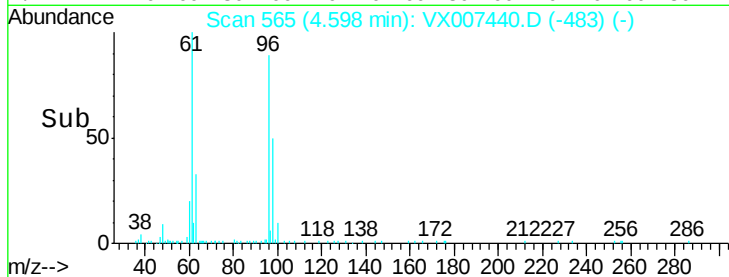
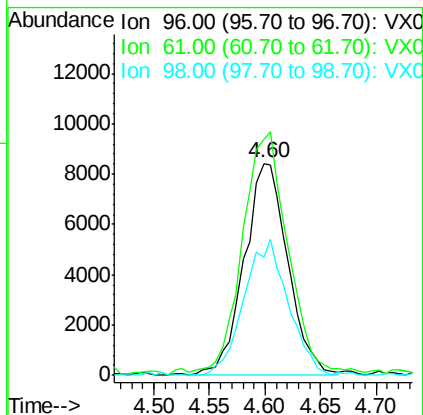
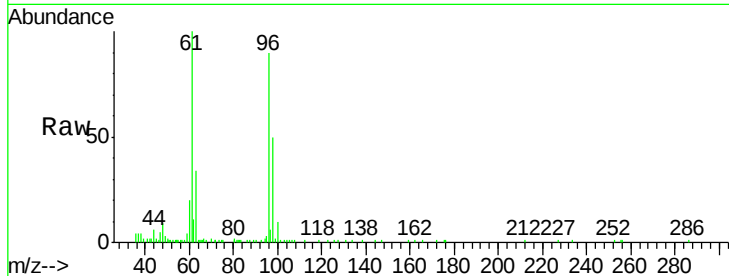


#22

cis-1,2-Dichloroethene
 Concen: 4.951 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX007440.D
 Acq: 08 Feb 2019 14:23

Instrument :
 MSVOA_X
 ClientSampled :

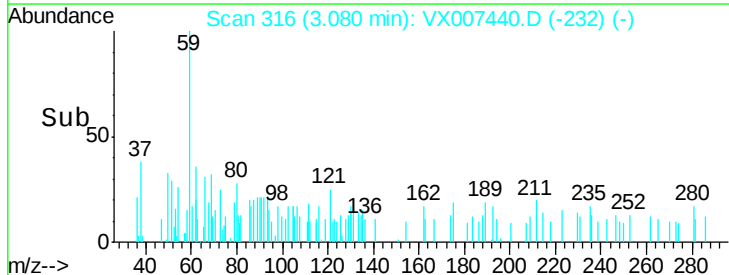
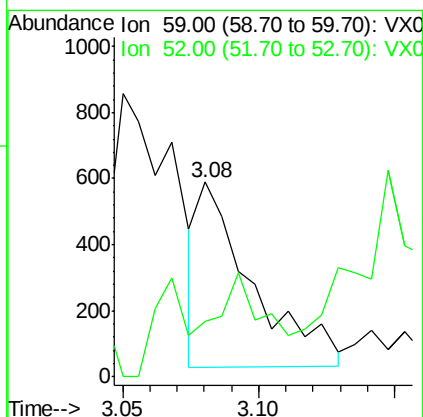
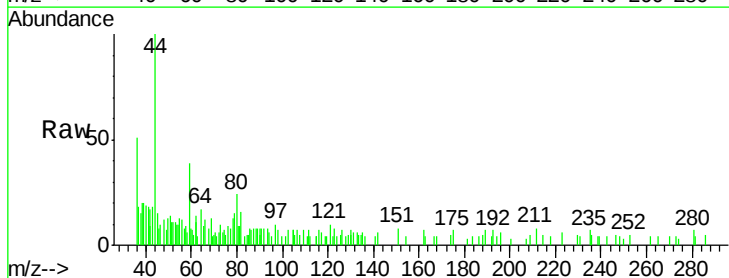
Tot Ion: 96 Resp: 23049
 Ion Ratio Lower Upper
 96 100
 61 117.3 108.1 162.1
 98 64.5 51.9 77.9

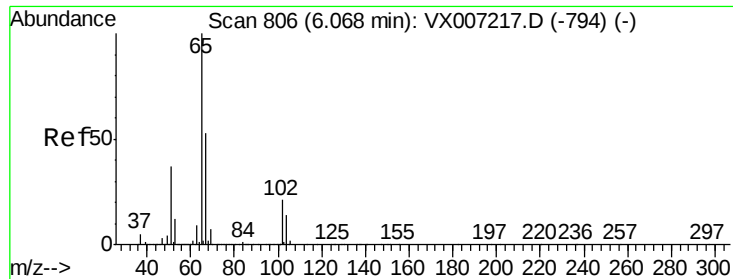


#23

tert-Butyl Alcohol
 Concen: 0.730 ug/l
 RT: 3.08 min Scan# 316
 Delta R.T. 0.01 min
 Lab File: VX007440.D
 Acq: 08 Feb 2019 14:23

Tgt Ion: 59 Resp: 765
 Ion Ratio Lower Upper
 59 100
 52 30.2 0.2 0.2#





#27

1,2-Dichloroethane-d4

Concen: 30.912 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007440.D

Acq: 08 Feb 2019 14:23

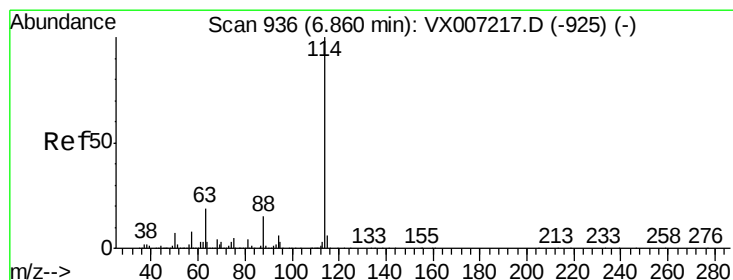
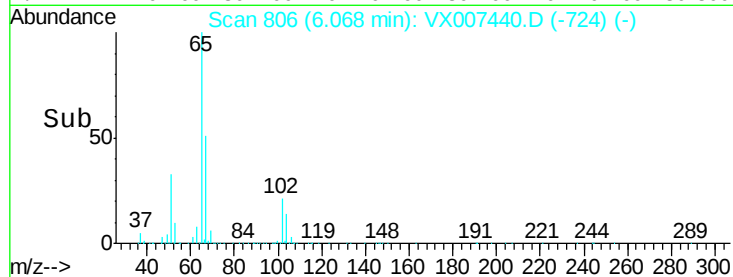
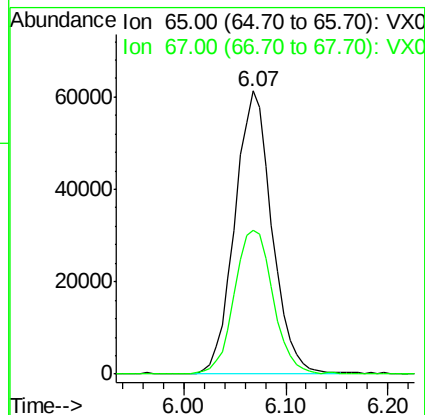
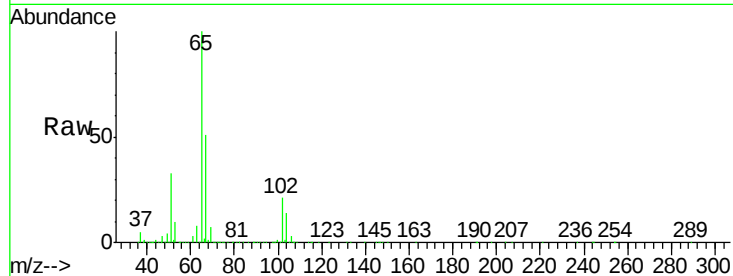
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 65 Resp: 153713

Ion Ratio Lower Upper

65 100

67 53.3 42.0 63.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007440.D

Acq: 08 Feb 2019 14:23

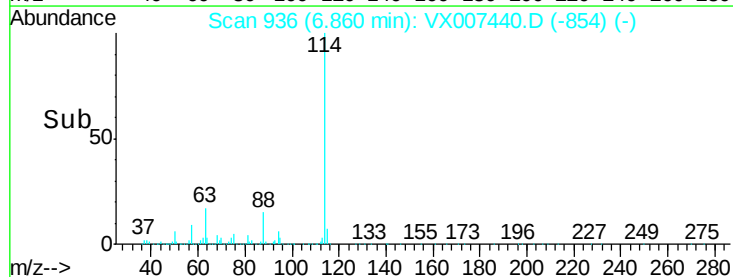
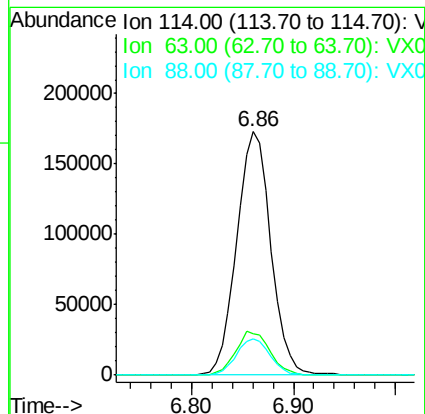
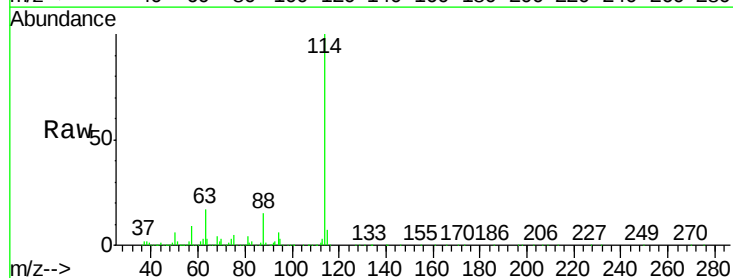
Tgt Ion: 114 Resp: 401171

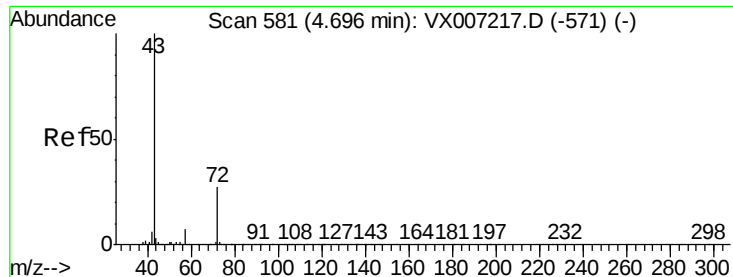
Ion Ratio Lower Upper

114 100

63 18.0 14.6 21.8

88 14.7 11.8 17.6

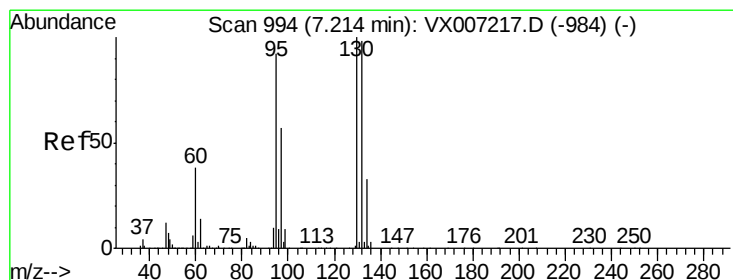
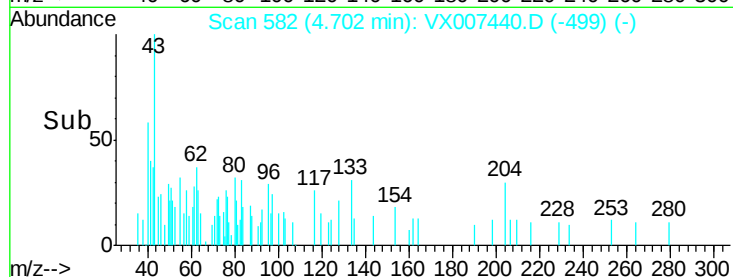
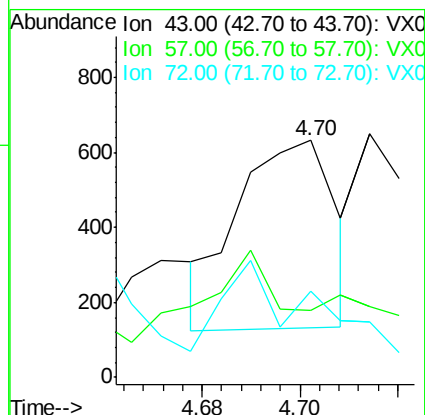
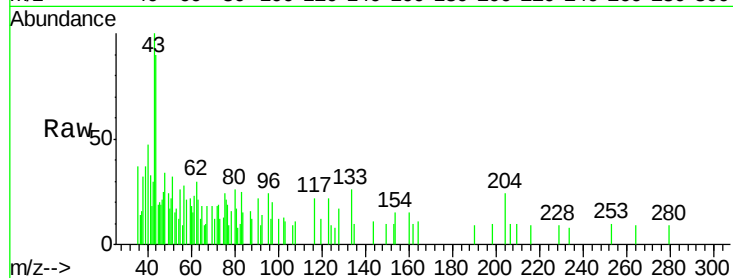




#30
2-Butanone
Concen: 0.221 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX007440.D
Acq: 08 Feb 2019 14:23

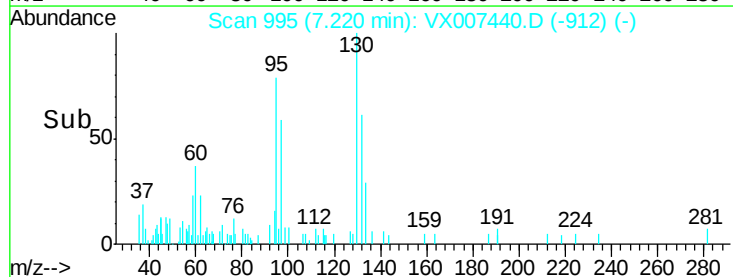
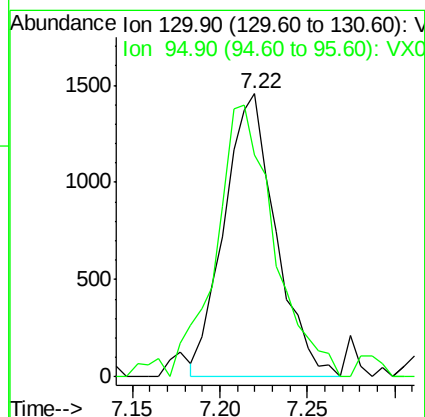
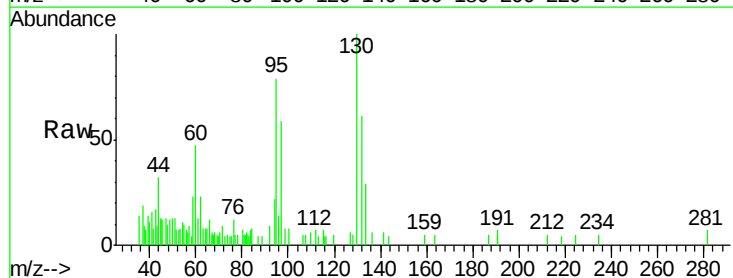
Instrument :
MSVOA_X
ClientSampled :

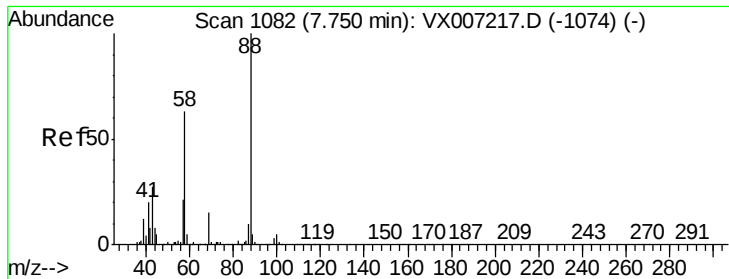
Tot Ion: 43 Resp: 691
Ion Ratio Lower Upper
43 100
57 0.0 3.3 4.9#
72 31.5 22.0 33.0



#37
Trichloroethene
Concen: 0.627 ug/l
RT: 7.22 min Scan# 995
Delta R.T. 0.01 min
Lab File: VX007440.D
Acq: 08 Feb 2019 14:23

Tgt Ion: 130 Resp: 2983
Ion Ratio Lower Upper
130 100
95 78.6 73.7 110.5





#45

1,4-Dioxane

Concen: 0.942 ug/l

RT: 7.76 min Scan# 1083

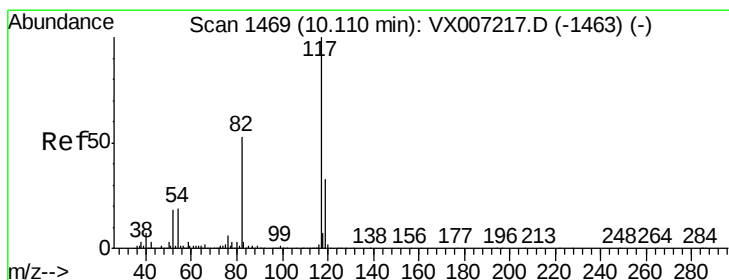
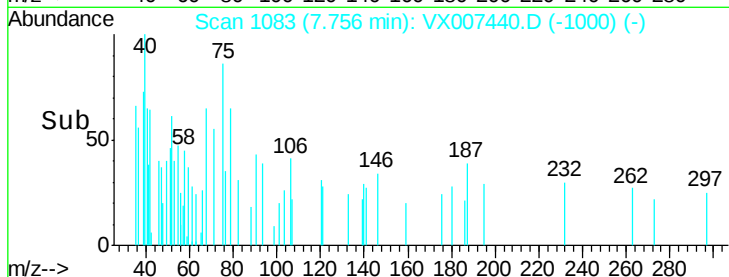
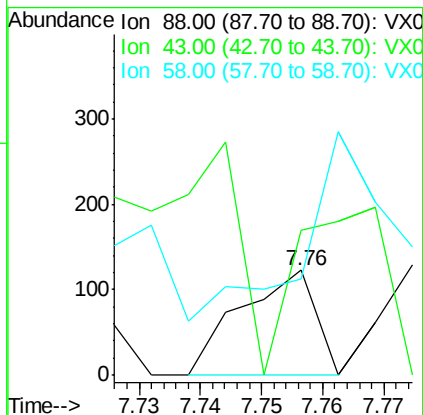
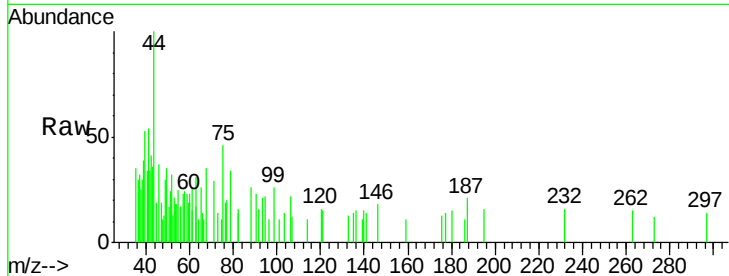
Delta R.T. 0.01 min

Lab File: VX007440.D

Acq: 08 Feb 2019 14:23

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 104
Ion Ratio Lower Upper
88 100
43 170.2 23.5 35.3#
58 51.9 51.6 77.4



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

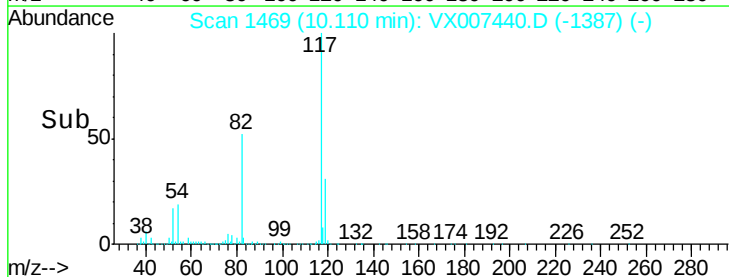
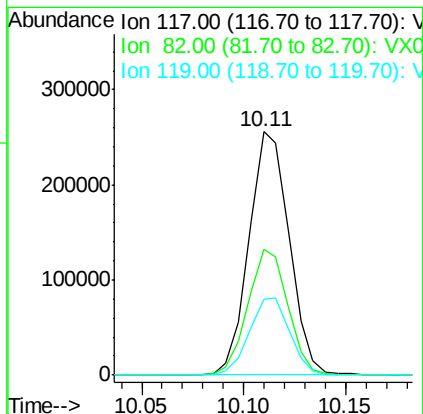
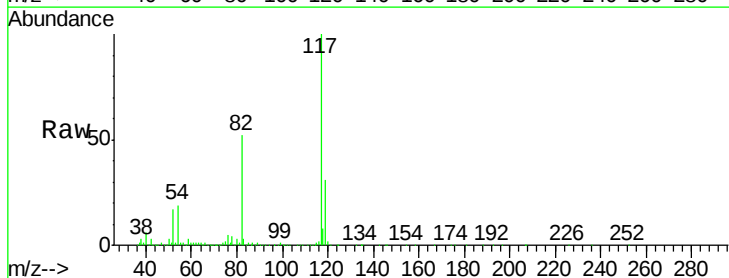
RT: 10.11 min Scan# 1469

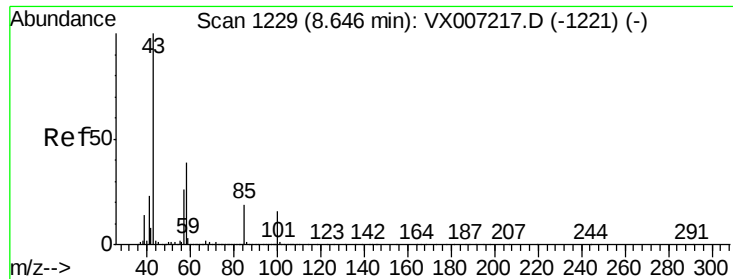
Delta R.T. -0.00 min

Lab File: VX007440.D

Acq: 08 Feb 2019 14:23

Tgt Ion: 117 Resp: 351926
Ion Ratio Lower Upper
117 100
82 51.5 41.4 62.0
119 32.1 25.7 38.5

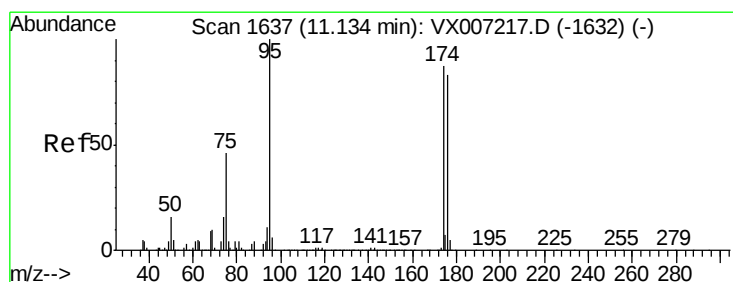
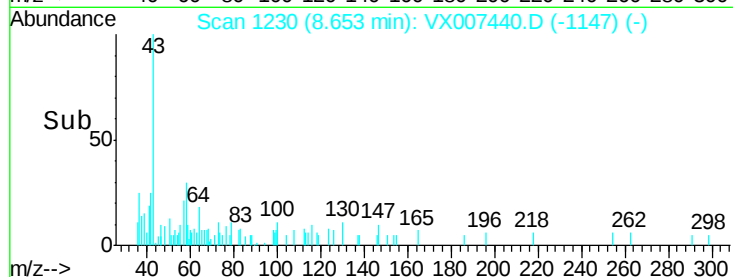
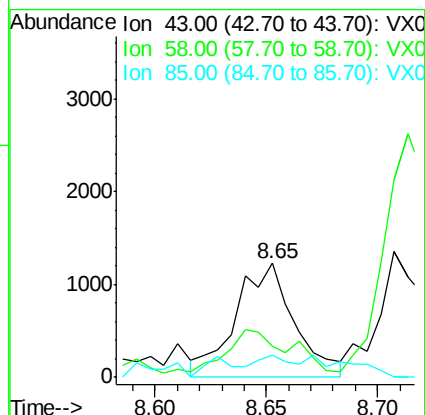
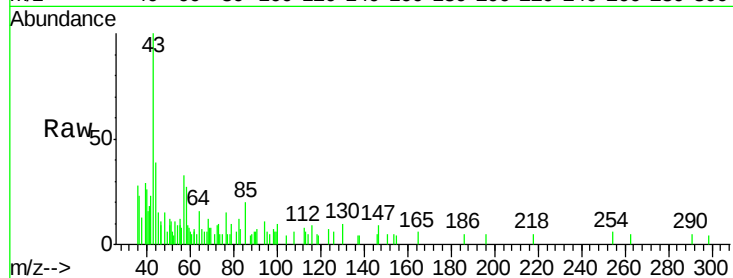




#58
4-Methyl-2-Pentanone
Concen: 0.386 ug/l
RT: 8.65 min Scan# 1230
Delta R.T. 0.01 min
Lab File: VX007440.D
Acq: 08 Feb 2019 14:23

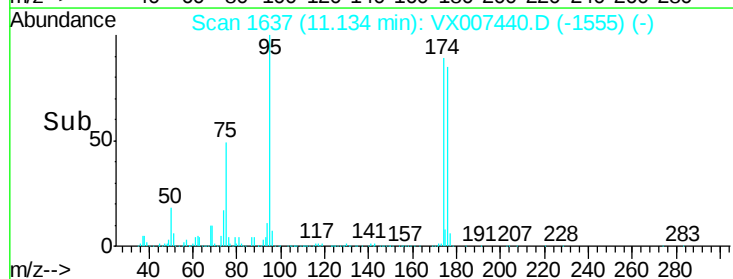
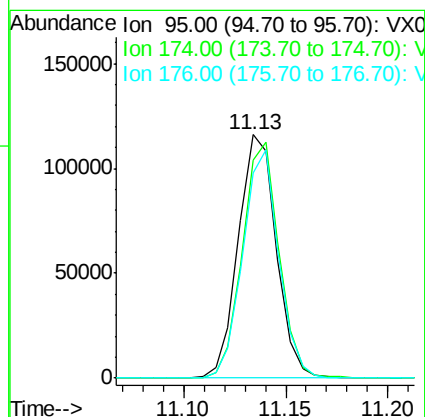
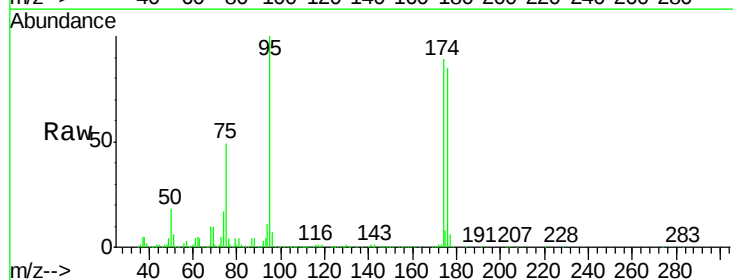
Instrument :
MSVOA_X
ClientSampleId :

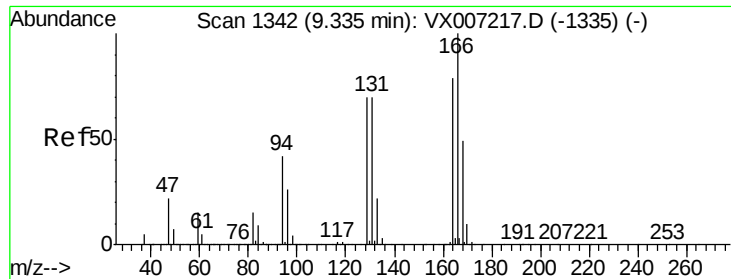
Tot Ion: 43 Resp: 2270
Ion Ratio Lower Upper
43 100
58 0.0 31.6 47.4#
85 13.7 14.9 22.3#



#60
4-Bromofluorobenzene
Concen: 27.495 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007440.D
Acq: 08 Feb 2019 14:23

Tgt Ion: 95 Resp: 149343
Ion Ratio Lower Upper
95 100
174 93.4 74.8 112.2
176 89.3 72.5 108.7





#61

Tetrachloroethene

Concen: 1.434 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX007440.D

Acq: 08 Feb 2019 14:23

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 7035

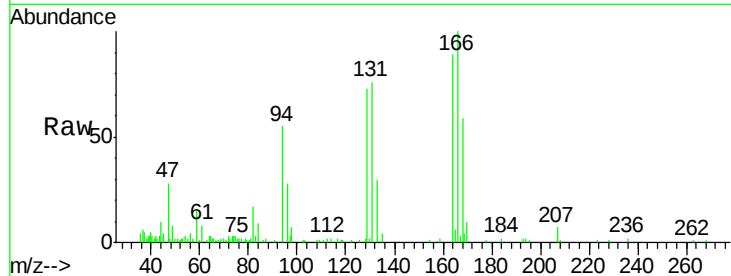
Ion Ratio Lower Upper

164 100

166 113.0 101.6 152.4

129 80.7 70.6 106.0

131 84.9 71.1 106.7

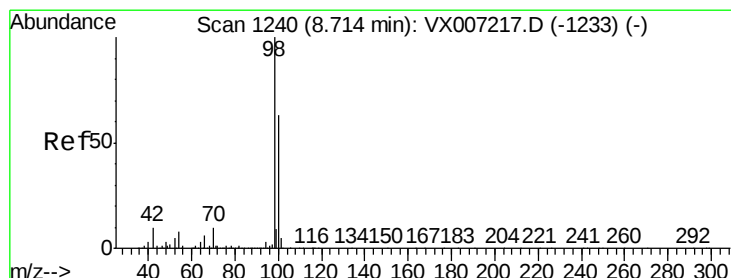
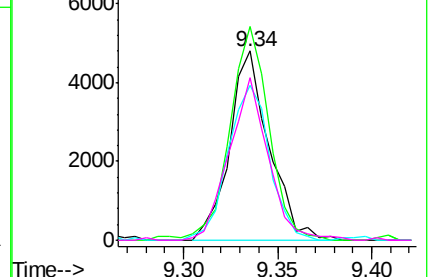
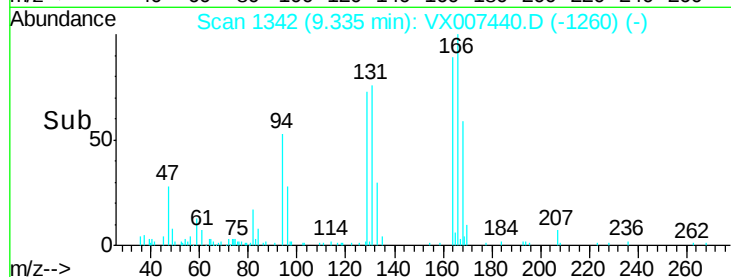


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#63

Toluene-d8

Concen: 29.992 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007440.D

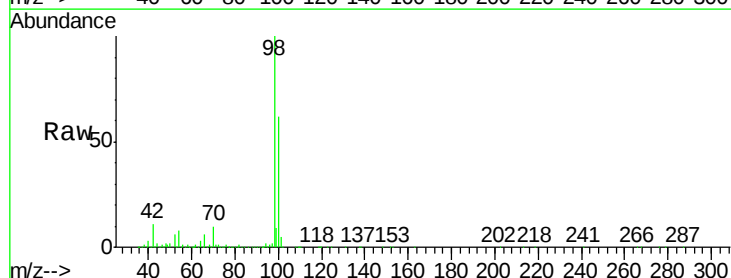
Acq: 08 Feb 2019 14:23

Tgt Ion: 98 Resp: 475754

Ion Ratio Lower Upper

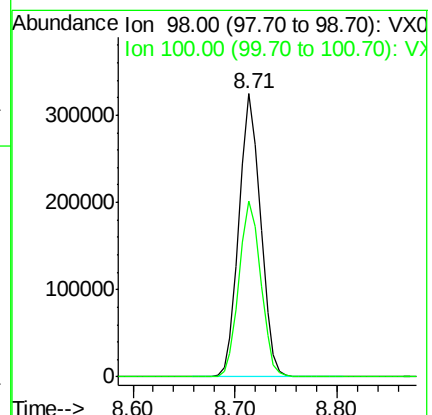
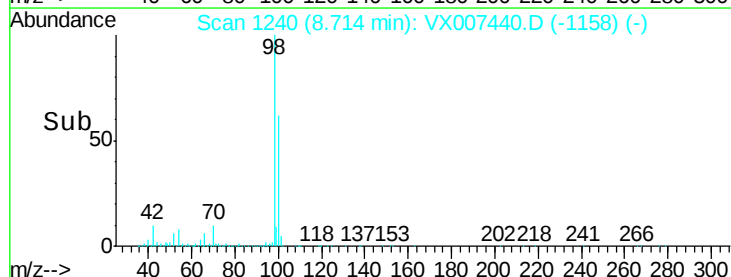
98 100

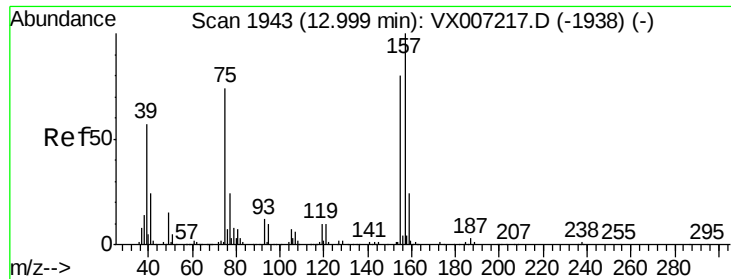
100 62.5 49.9 74.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.239 ug/l

RT: 12.97 min Scan# 1939

Delta R.T. -0.02 min

Lab File: VX007440.D

Acq: 08 Feb 2019 14:23

Instrument :

MSVOA_X

ClientSampleId :

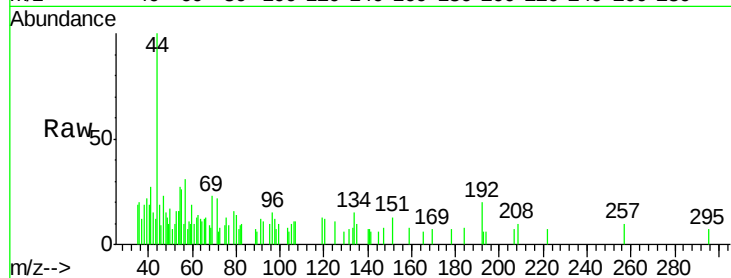
Tot Ion: 75 Resp: 306

Ion Ratio Lower Upper

75 100

155 0.0 82.8 124.2#

157 36.6 106.9 160.3#



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

