

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050119\
 Data File : VX009255.D
 Acq On : 01 May 2019 13:54
 Operator : JC/SP
 Sample : I.BLK
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 I.BLK

Quant Time: May 02 06:50:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	37775	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	219629	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	192972	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	94219	30.07	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.23%
60) 4-Bromofluorobenzene	11.13	95	93813	28.61	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.37%
63) Toluene-d8	8.71	98	276753	30.25	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.83%

Target Compounds

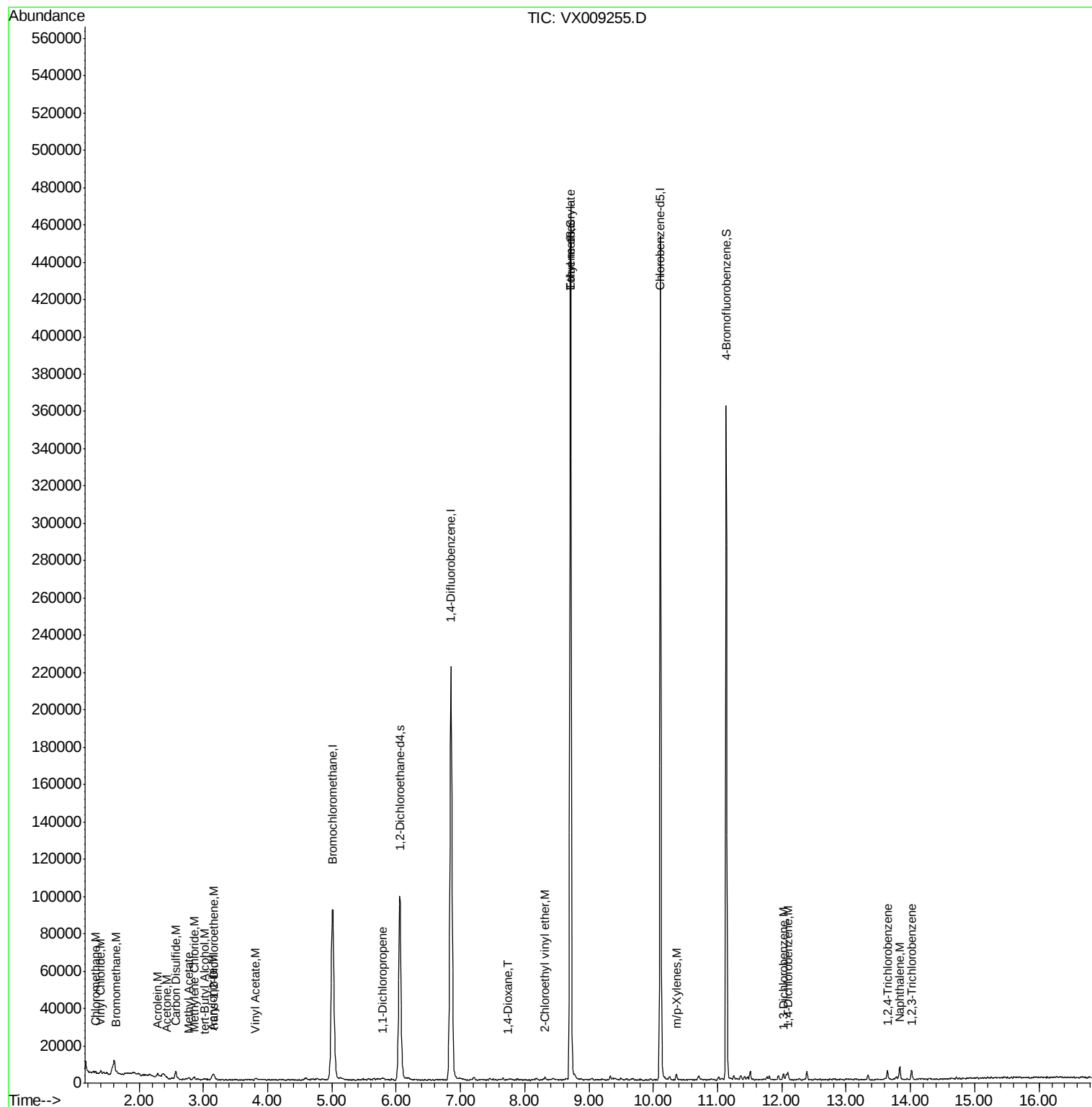
					Ovalue
3) Chloromethane	1.32	50	750	0.278	ug/l 99
4) Vinyl Chloride	1.40	62	613	0.228	ug/l # 62
5) Bromomethane	1.64	94	451	0.264	ug/l 94
12) Methyl Acetate	2.77	43	1262	0.324	ug/l # 49
13) Acrolein	2.29	56	1352	2.533	ug/l 85
14) Acrylonitrile	3.14	53	1562	0.925	ug/l 92
15) Acetone	2.44	58	212	0.437	ug/l # 31
16) Carbon Disulfide	2.57	76	4926	0.881	ug/l # 93
18) Methylene Chloride	2.85	84	638	0.255	ug/l # 76
19) trans-1,2-Dichloroethene	3.17	96	863	0.392	ug/l # 77
23) tert-Butyl Alcohol	3.03	59	256	0.358	ug/l # 87
29) 1,1-Dichloropropene	5.79	75	654	0.203	ug/l 70
42) Vinyl Acetate	3.81	43	1971	0.237	ug/l 99
45) 1,4-Dioxane	7.74	88	93	1.282	ug/l # 11
51) Ethyl methacrylate	8.71	69	933	0.205	ug/l 81
55) 2-Chloroethyl vinyl ether	8.32	63	639	0.264	ug/l # 84
67) m/p-Xylenes	10.36	106	864	0.206	ug/l 79
83) 1,3-Dichlorobenzene	12.02	146	1008	0.206	ug/l 99
84) 1,4-Dichlorobenzene	12.10	146	1135	0.233	ug/l 91
89) 1,2,4-Trichlorobenzene	13.65	180	1179	0.336	ug/l 97
91) Naphthalene	13.83	128	4110	0.358	ug/l 98
92) 1,2,3-Trichlorobenzene	14.02	180	1211	0.339	ug/l 94

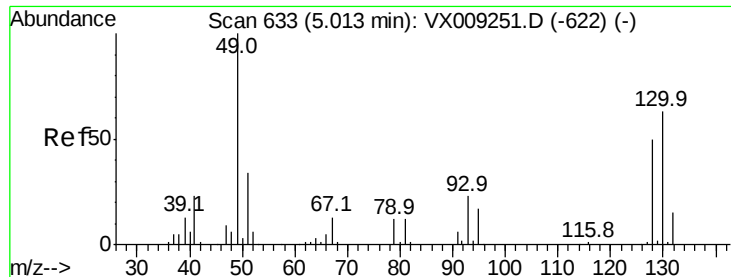
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 02 06:46:57 2019
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009255.D

Acq: 01 May 2019 13:54

Instrument :
MSVOA_X
ClientSampleId :
I.BLK

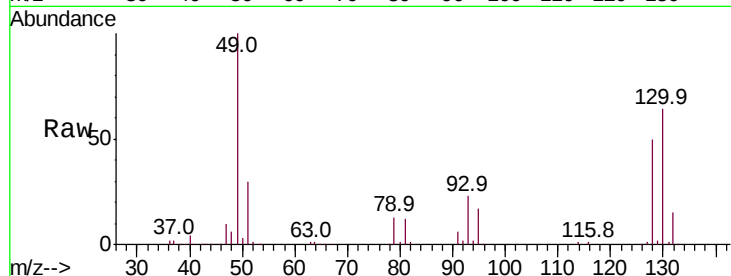
Tot Ion:128 Resp: 37775

Ion Ratio Lower Upper

128 100

49 198.0 0.0 515.0

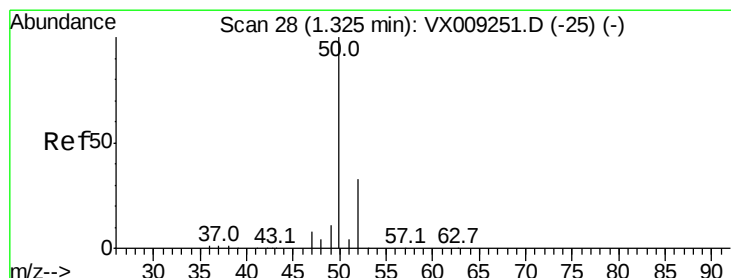
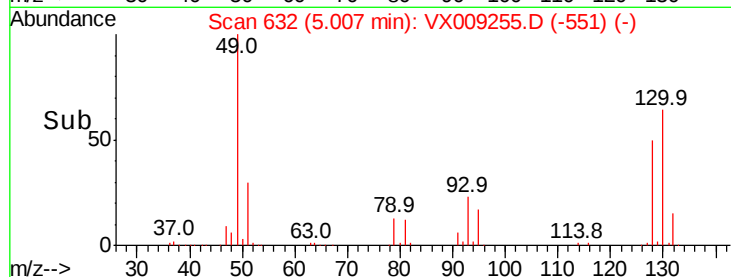
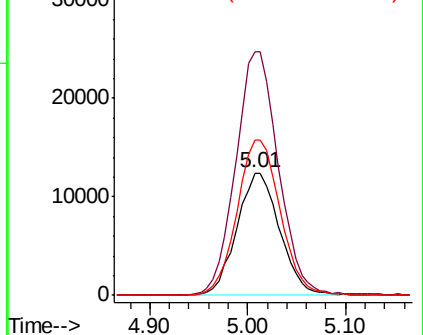
130 128.2 0.0 323.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.278 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009255.D

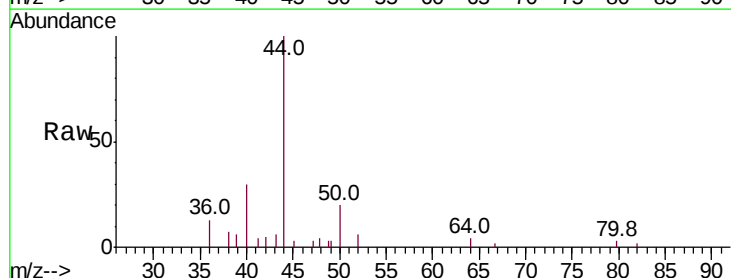
Acq: 01 May 2019 13:54

Tgt Ion: 50 Resp: 750

Ion Ratio Lower Upper

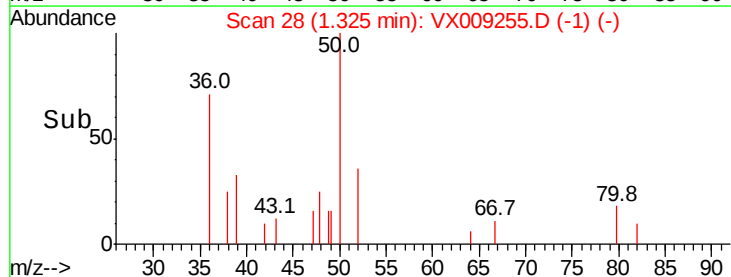
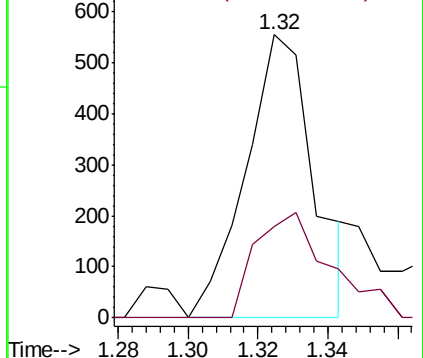
50 100

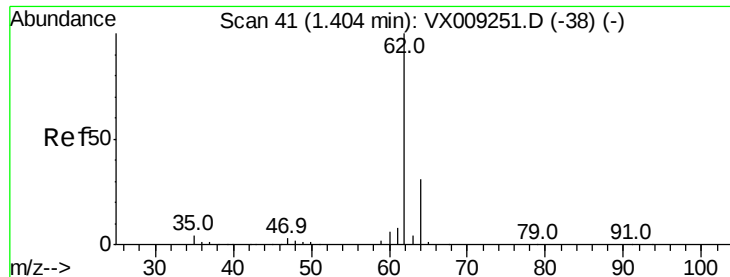
52 32.3 26.3 39.5



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#4

Vinyl Chloride

Concen: 0.228 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.00 min

Lab File: VX009255.D

Acq: 01 May 2019 13:54

Instrument :

MSVOA_X

ClientSampleId :

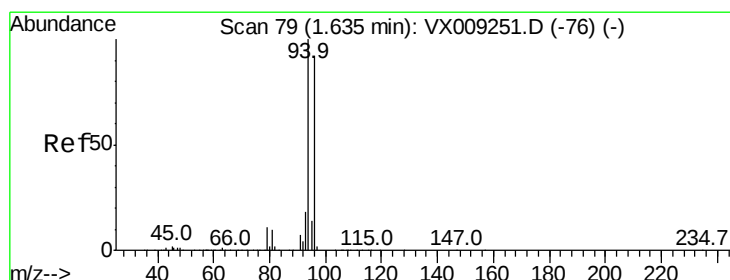
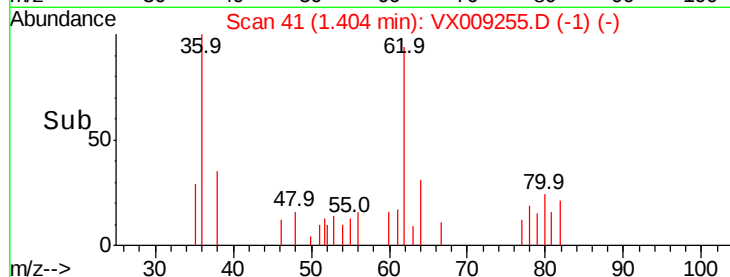
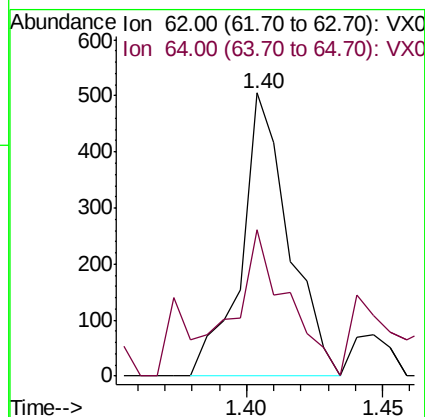
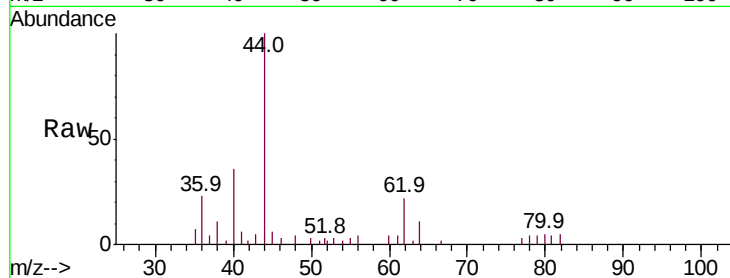
I.BLK

Tot Ion: 62 Resp: 613

Ion Ratio Lower Upper

62 100

64 51.7 24.6 36.8#



#5

Bromomethane

Concen: 0.264 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009255.D

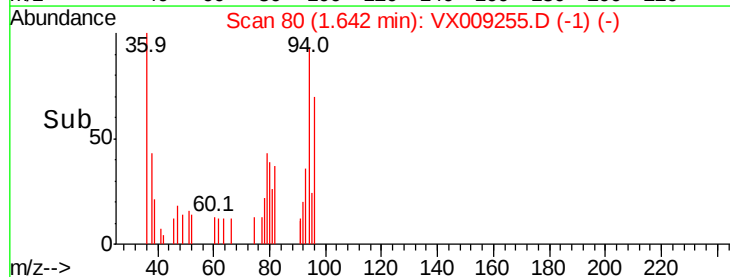
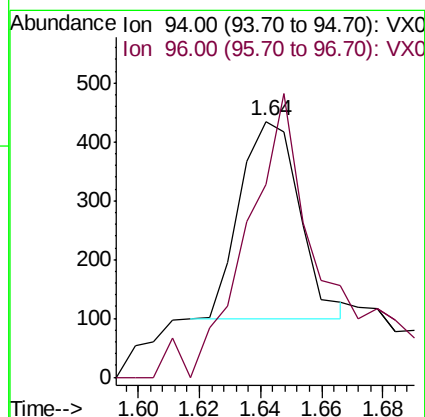
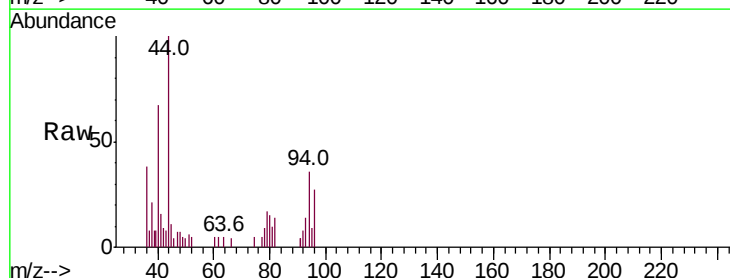
Acq: 01 May 2019 13:54

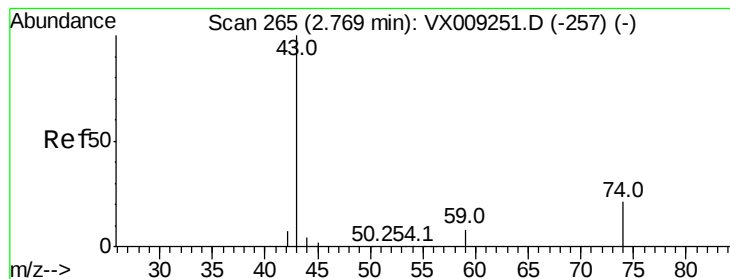
Tgt Ion: 94 Resp: 451

Ion Ratio Lower Upper

94 100

96 97.9 73.5 110.3





#12

Methvl Acetate

Concen: 0.324 ug/l

RT: 2.77 min Scan# 265

Delta R.T. 0.00 min

Lab File: VX009255.D

Acq: 01 May 2019 13:54

Instrument :

MSVOA_X

ClientSampleId :

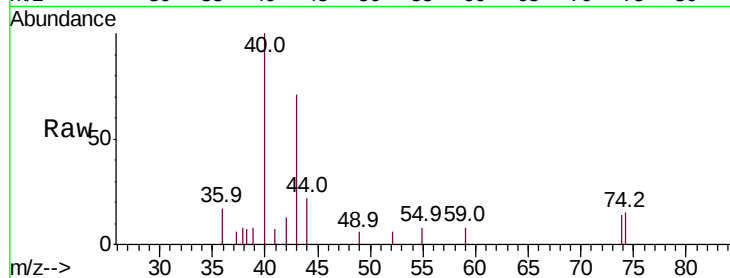
I.BLK

Tot Ion: 43 Resp: 1262

Ion Ratio Lower Upper

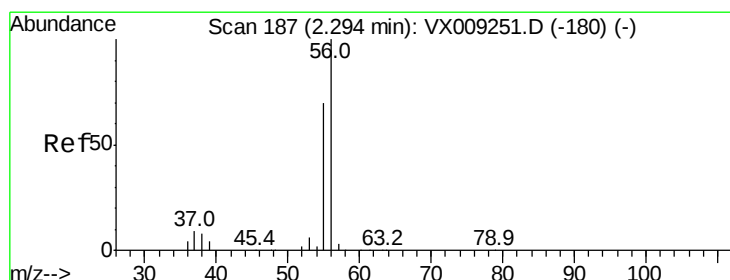
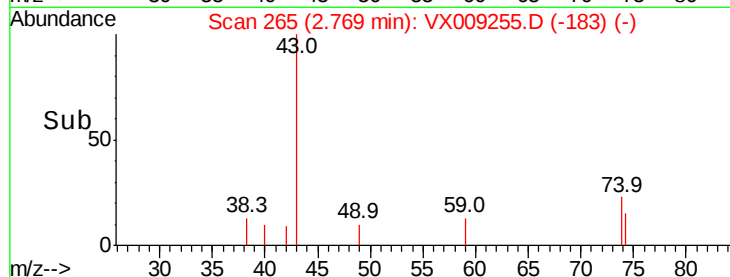
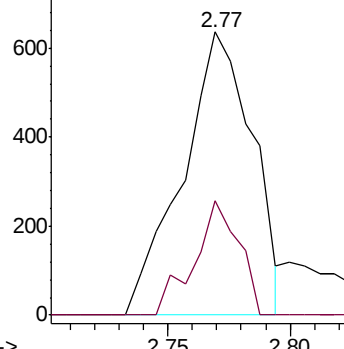
43 100

74 44.4 16.5 24.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#13

Acrolein

Concen: 2.533 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX009255.D

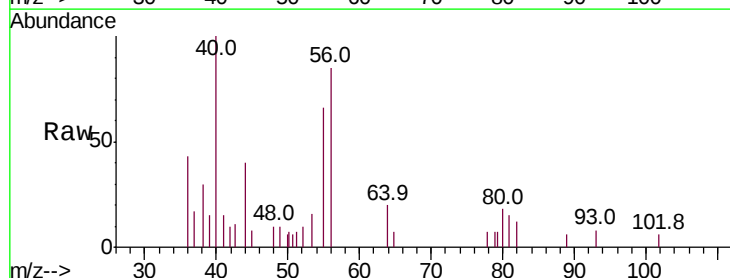
Acq: 01 May 2019 13:54

Tgt Ion: 56 Resp: 1352

Ion Ratio Lower Upper

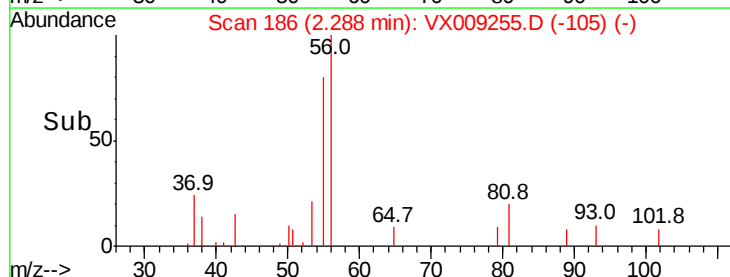
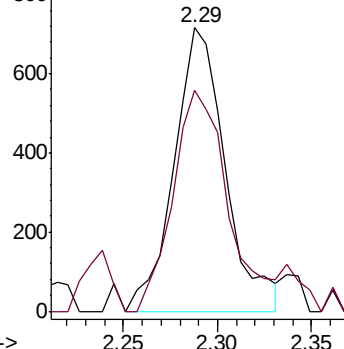
56 100

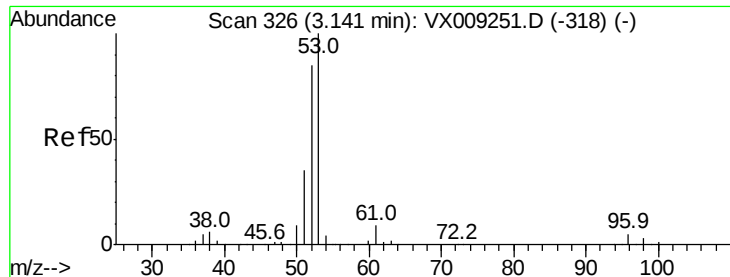
55 83.7 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#14

Acrylonitrile

Concen: 0.925 ug/l

RT: 3.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX009255.D

Acq: 01 May 2019 13:54

Instrument :

MSVOA_X

ClientSampleId :

I.BLK

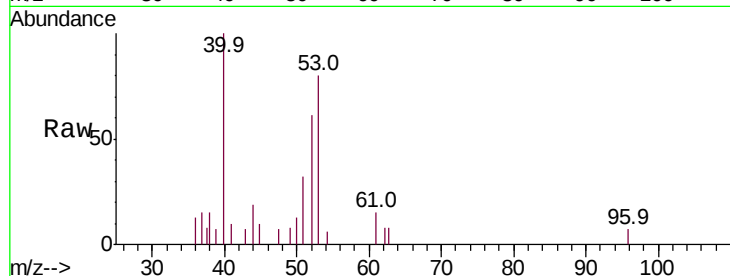
Tot Ion: 53 Resp: 1562

Ion Ratio Lower Upper

53 100

52 89.7 41.5 124.5

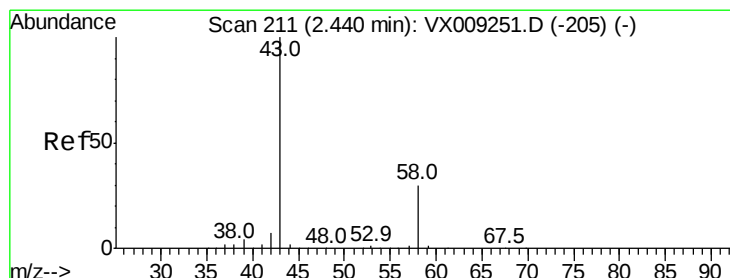
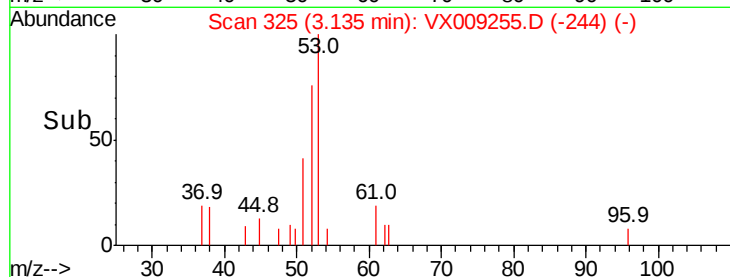
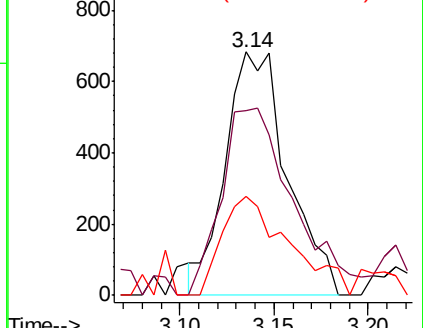
51 40.1 17.8 53.3



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



#15

Acetone

Concen: 0.437 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX009255.D

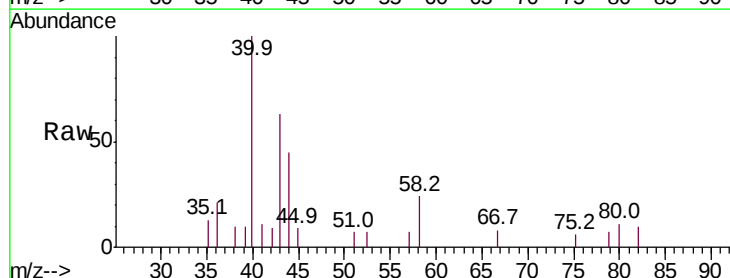
Acq: 01 May 2019 13:54

Tgt Ion: 58 Resp: 212

Ion Ratio Lower Upper

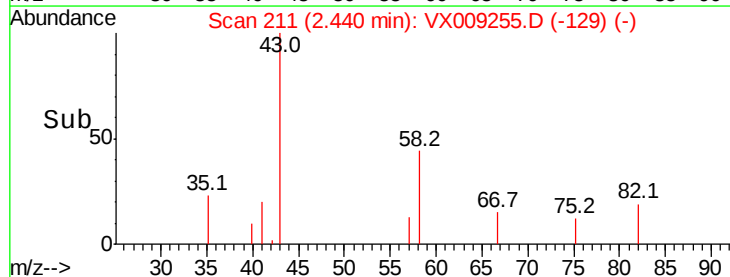
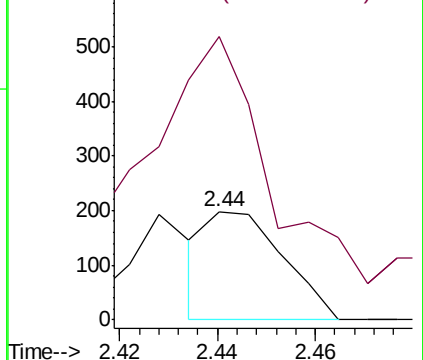
58 100

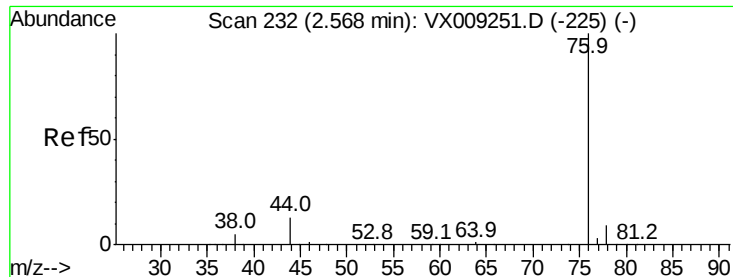
43 185.9 264.0 396.0#



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

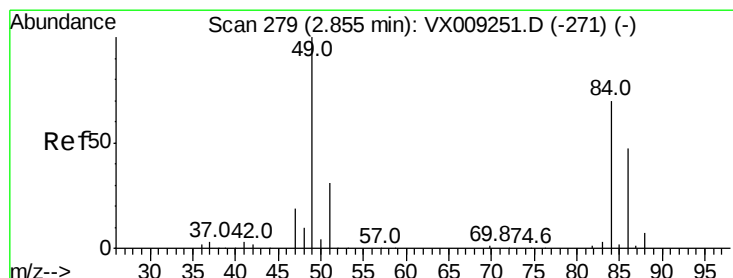
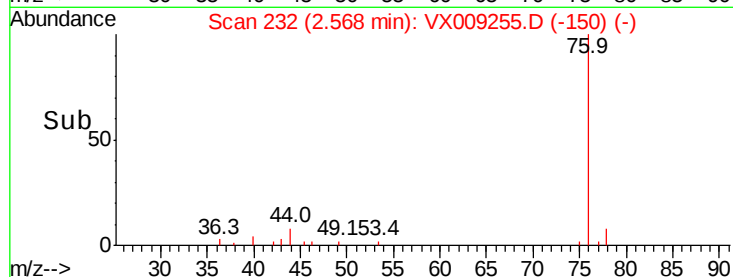
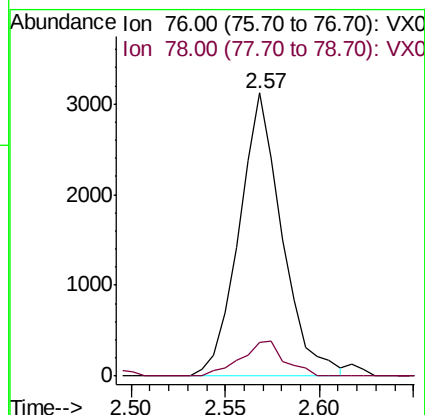
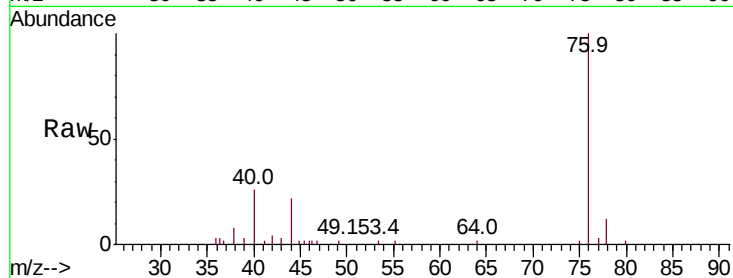




#16
Carbon Disulfide
Concen: 0.881 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX009255.D
Acq: 01 May 2019 13:54

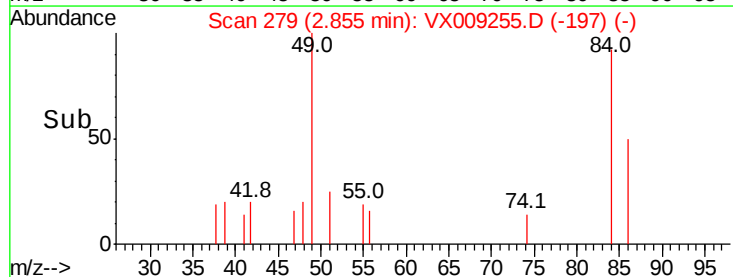
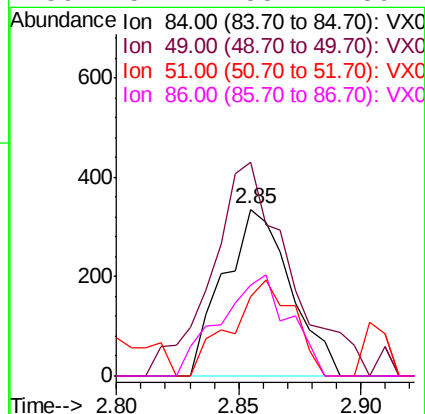
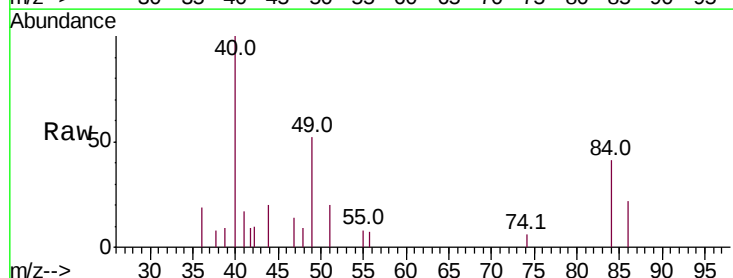
Instrument :
MSVOA_X
ClientSampleId :
I.BLK

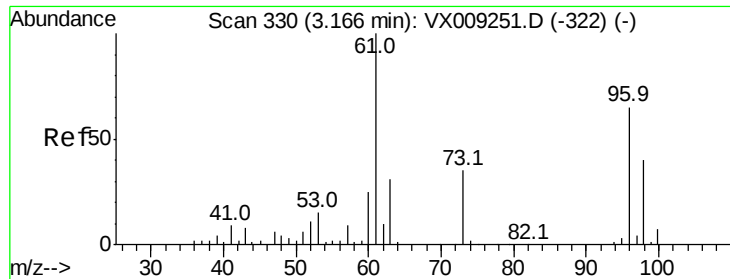
Tot Ion: 76 Resp: 4926
Ion Ratio Lower Upper
76 100
78 12.0 7.4 11.2#



#18
Methylene Chloride
Concen: 0.255 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX009255.D
Acq: 01 May 2019 13:54

Tgt Ion: 84 Resp: 638
Ion Ratio Lower Upper
84 100
49 102.1 114.6 171.8#
51 47.9 35.5 53.3
86 54.2 53.4 80.2

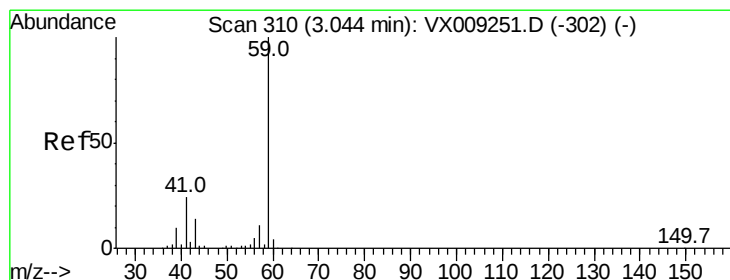
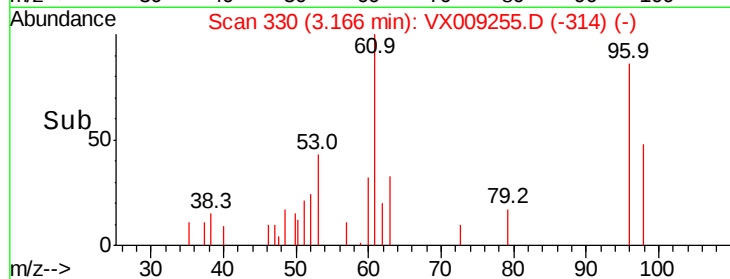
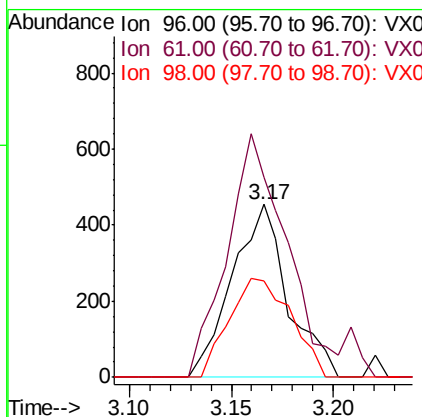
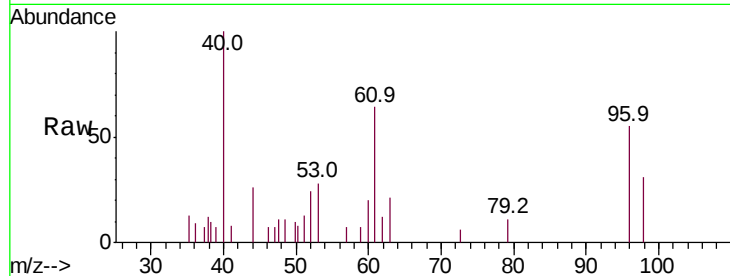




#19
trans-1,2-Dichloroethene
Concen: 0.392 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.00 min
Lab File: VX009255.D
Acq: 01 May 2019 13:54

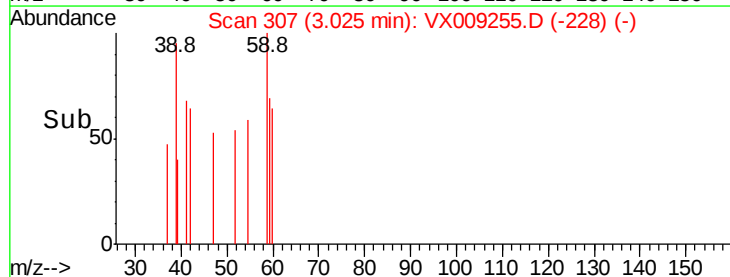
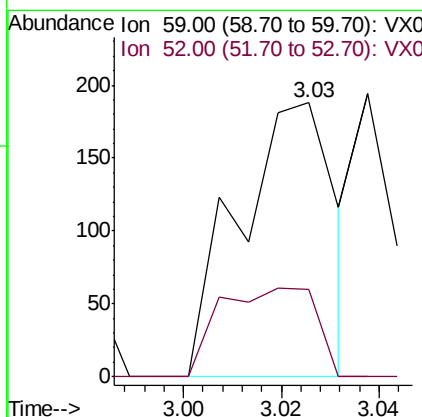
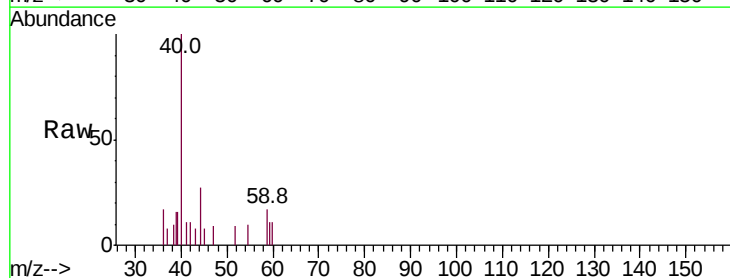
Instrument :
MSVOA_X
ClientSampled :
I.BLK

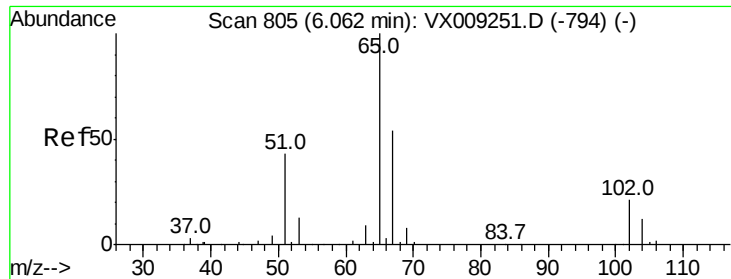
Tot Ion: 96 Resp: 863
Ion Ratio Lower Upper
96 100
61 115.9 122.7 184.1#
98 55.7 49.5 74.3



#23
tert-Butyl Alcohol
Concen: 0.358 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009255.D
Acq: 01 May 2019 13:54

Tgt Ion: 59 Resp: 256
Ion Ratio Lower Upper
59 100
52 17.2 0.2 0.2#

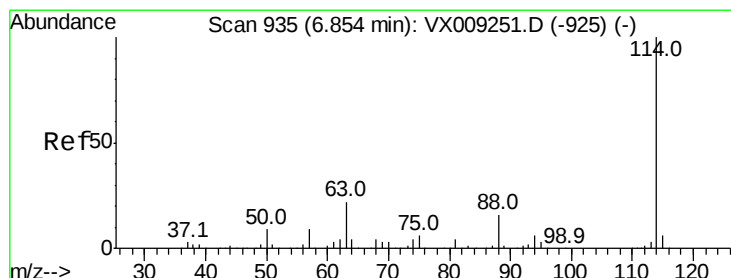
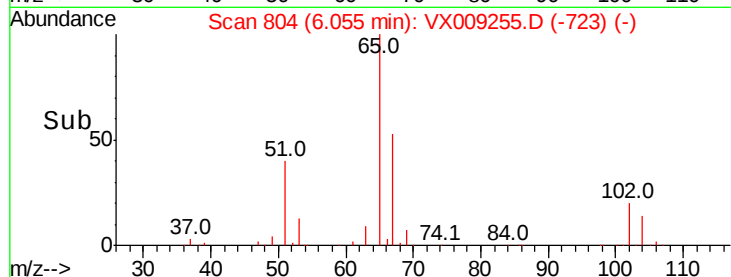
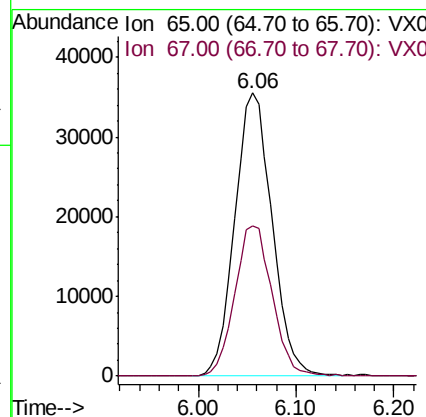
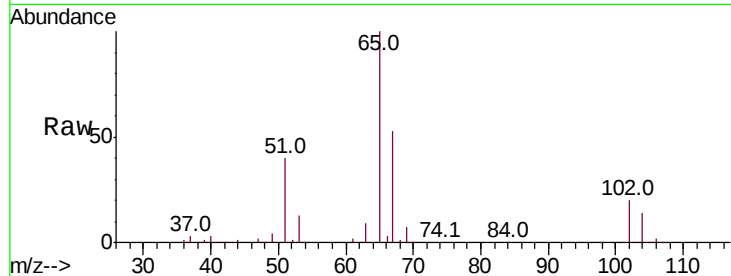




#27
 1,2-Dichloroethane-d4
 Concen: 30.067 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. -0.01 min
 Lab File: VX009255.D
 Acq: 01 May 2019 13:54

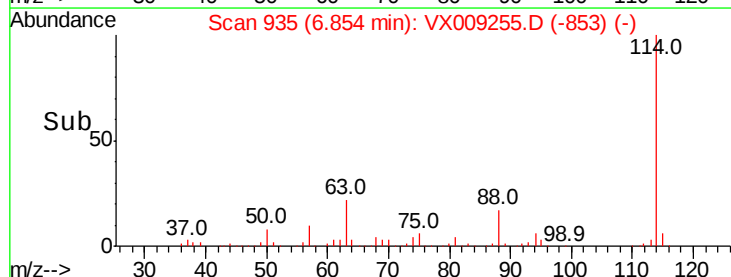
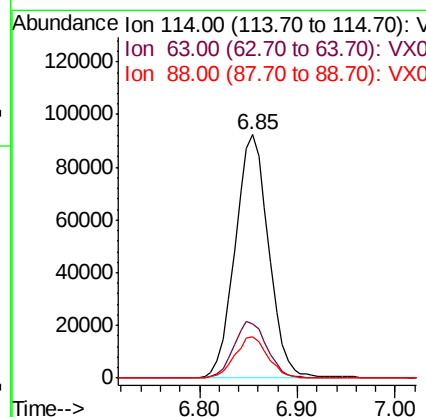
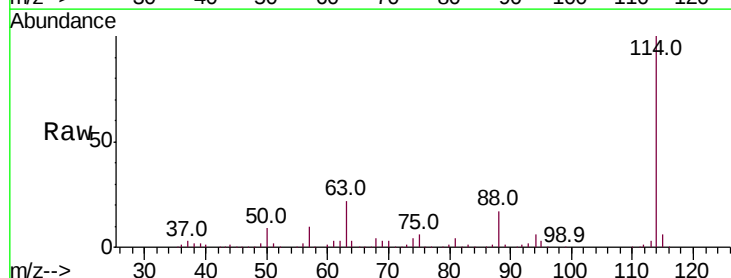
Instrument :
 MSVOA_X
 ClientSampleId :
 I.BLK

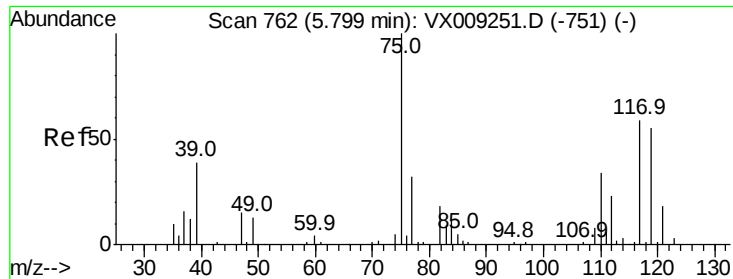
Tot Ion: 65 Resp: 94219
 Ion Ratio Lower Upper
 65 100
 67 53.2 43.1 64.7



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX009255.D
 Acq: 01 May 2019 13:54

Tgt Ion: 114 Resp: 219629
 Ion Ratio Lower Upper
 114 100
 63 23.4 18.0 27.0
 88 16.7 13.4 20.0

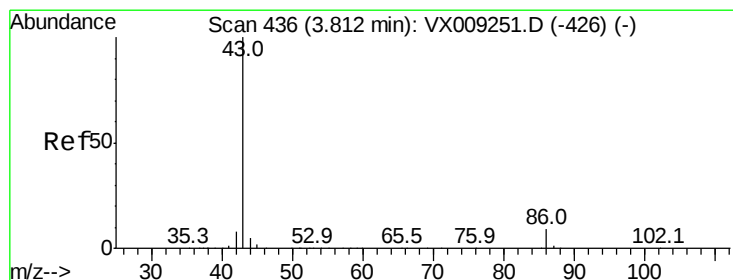
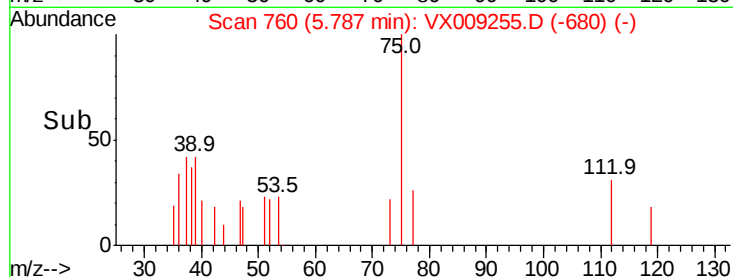
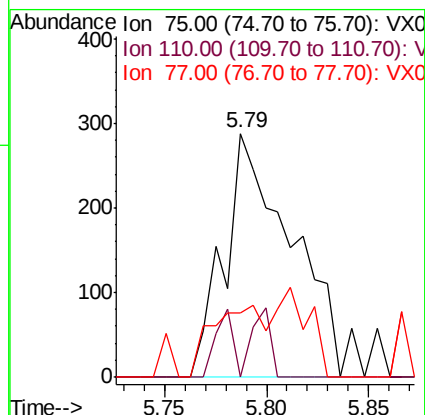
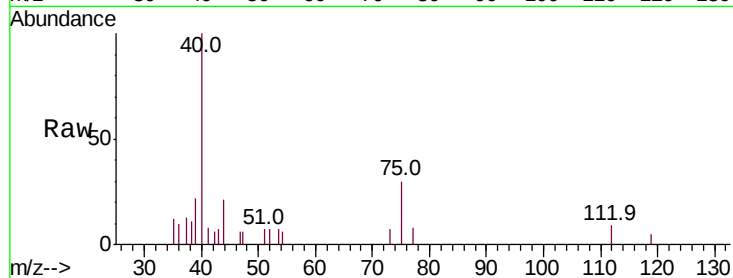




#29
 1,1-Dichloropropene
 Concen: 0.203 ug/l
 RT: 5.79 min Scan# 760
 Delta R.T. -0.01 min
 Lab File: VX009255.D
 Acq: 01 May 2019 13:54

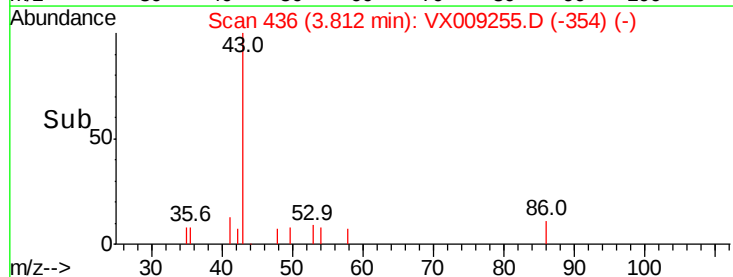
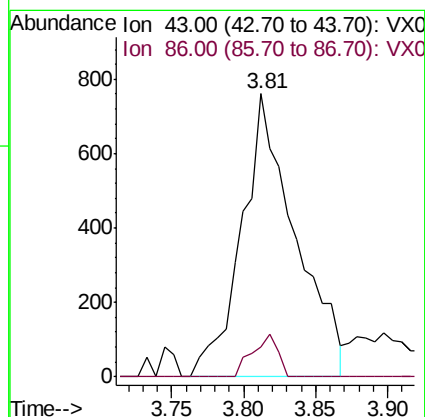
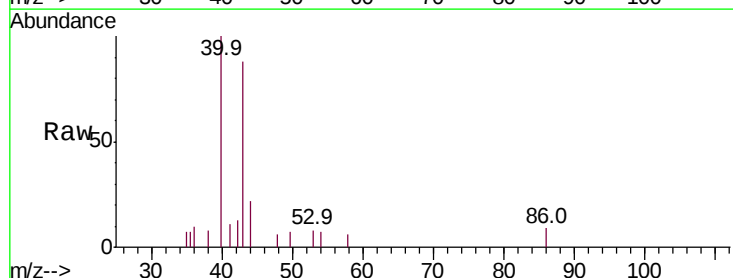
Instrument :
 MSVOA_X
 ClientSampleId :
 I.BLK

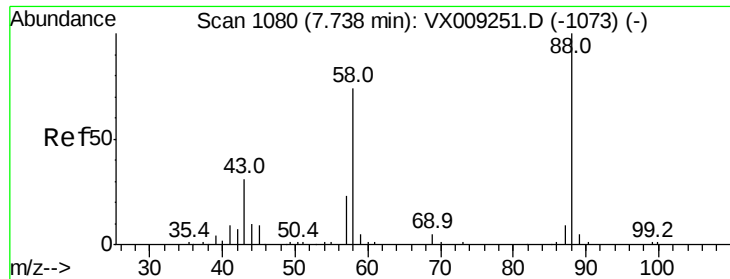
Tot Ion: 75 Resp: 654
 Ion Ratio Lower Upper
 75 100
 110 8.0 0.0 66.4
 77 23.1 0.0 62.2



#42
 Vinyl Acetate
 Concen: 0.237 ug/l
 RT: 3.81 min Scan# 436
 Delta R.T. 0.00 min
 Lab File: VX009255.D
 Acq: 01 May 2019 13:54

Tgt Ion: 43 Resp: 1971
 Ion Ratio Lower Upper
 43 100
 86 7.0 6.0 9.0





#45

1,4-Dioxane

Concen: 1.282 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX009255.D

Acq: 01 May 2019 13:54

Instrument :

MSVOA_X

ClientSampled :

I.BLK

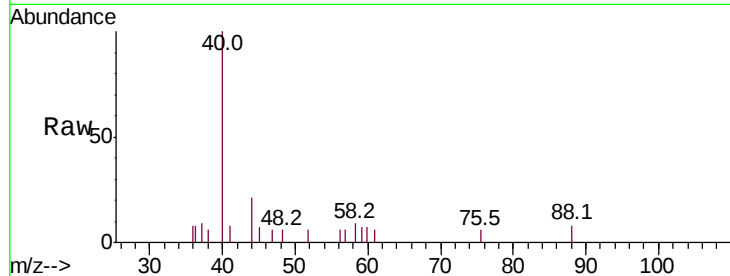
Tot Ion: 88 Resp: 93

Ion Ratio Lower Upper

88 100

43 133.3 28.5 42.7#

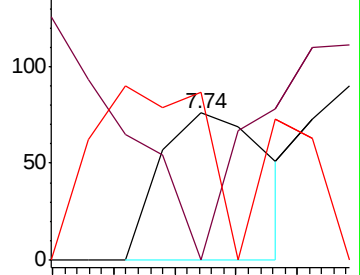
58 124.7 62.5 93.7#



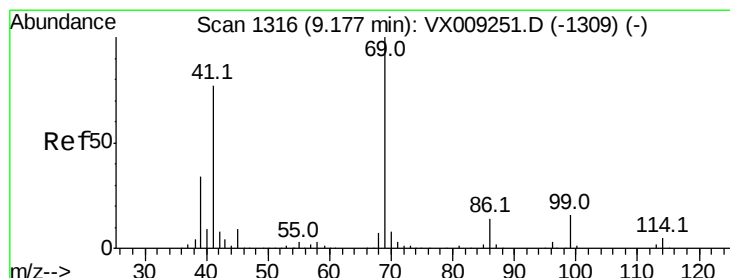
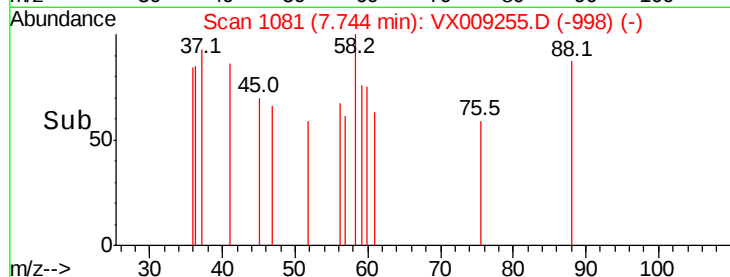
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time--> 7.72 7.73 7.74 7.75 7.76



#51

Ethyl methacrylate

Concen: 0.205 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.46 min

Lab File: VX009255.D

Acq: 01 May 2019 13:54

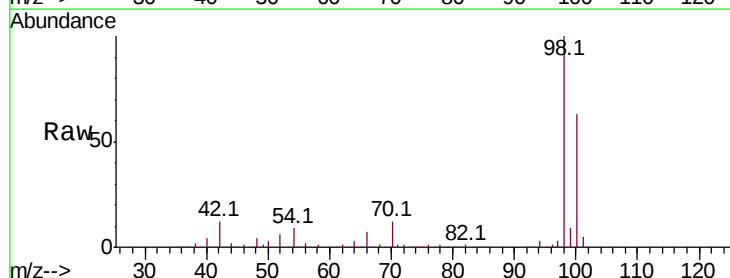
Tgt Ion: 69 Resp: 933

Ion Ratio Lower Upper

69 100

41 92.3 38.4 115.2

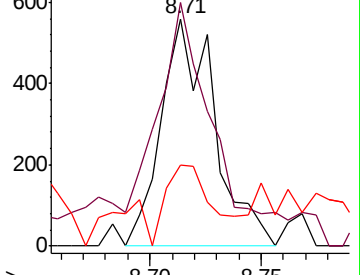
39 22.2 17.2 51.5



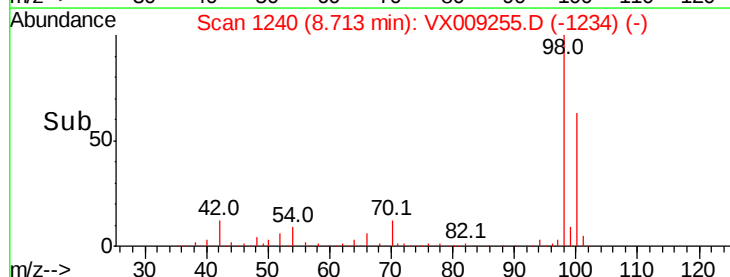
Abundance Ion 69.00 (68.70 to 69.70): VX0

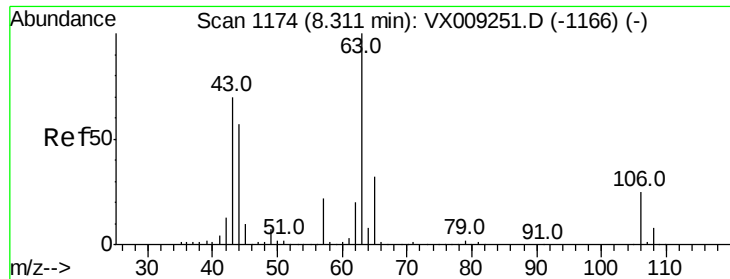
Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time--> 8.70 8.75





#55

2-Chloroethyl vinyl ether

Concen: 0.264 ug/l

RT: 8.32 min Scan# 1175

Delta R.T. 0.01 min

Lab File: VX009255.D

Acq: 01 May 2019 13:54

Instrument :

MSVOA_X

ClientSampleId :

I.BLK

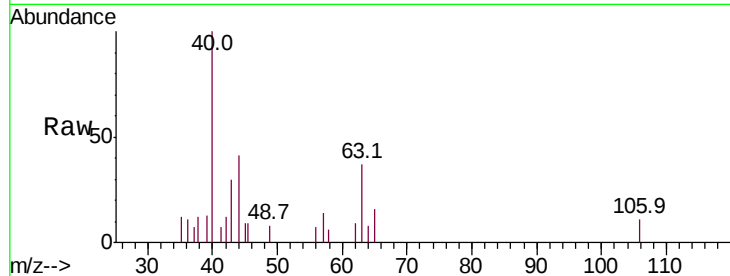
Tot Ion: 63 Resp: 639

Ion Ratio Lower Upper

63 100

65 35.7 25.8 38.6

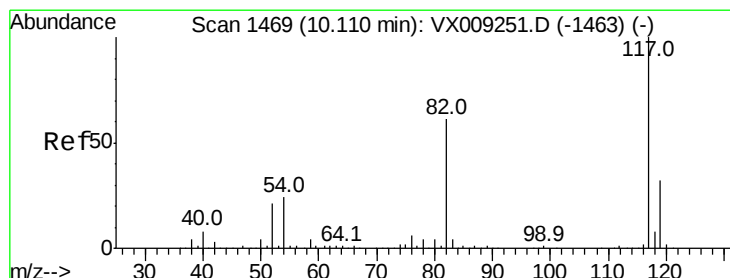
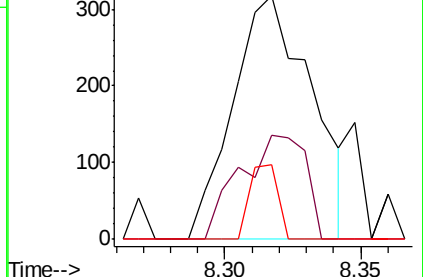
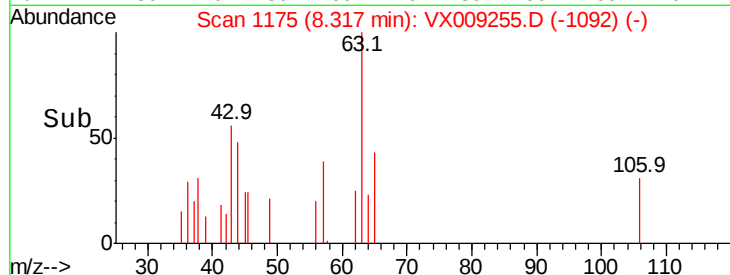
106 10.8 19.8 29.6#



Abundance Ion 63.00 (62.70 to 63.70): VX0

Ion 65.00 (64.70 to 65.70): VX0

Ion 106.00 (105.70 to 106.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009255.D

Acq: 01 May 2019 13:54

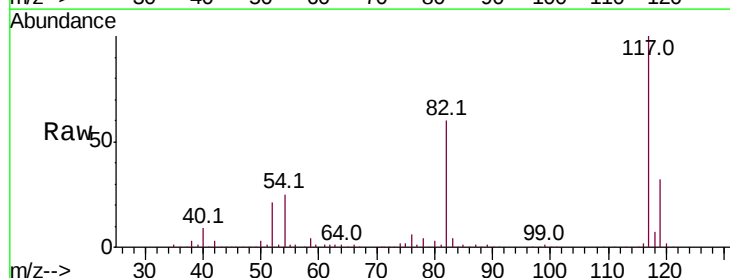
Tgt Ion:117 Resp: 192972

Ion Ratio Lower Upper

117 100

82 58.2 47.8 71.8

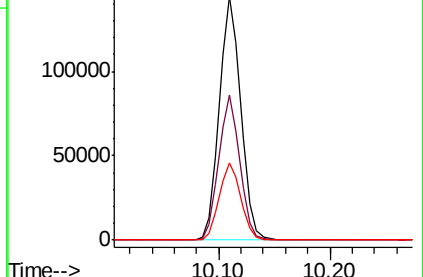
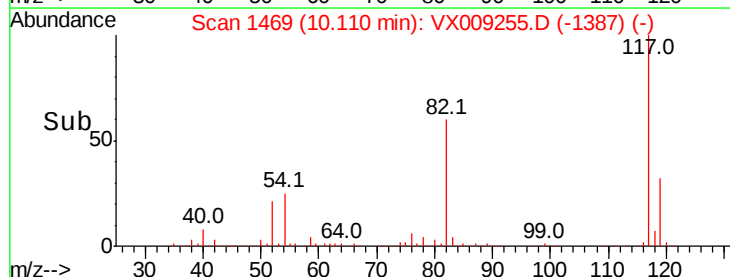
119 31.9 25.6 38.4

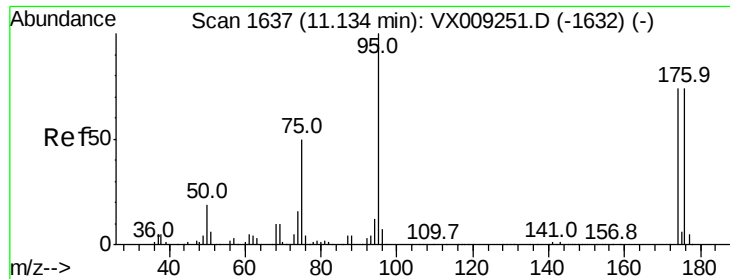


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

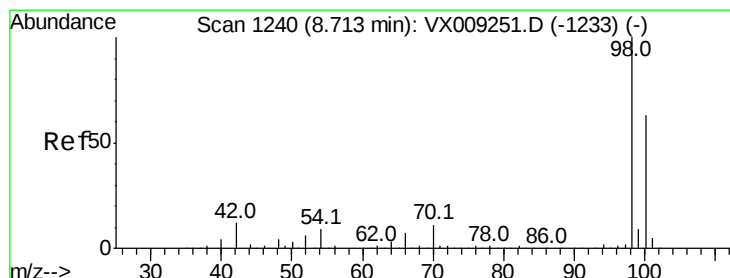
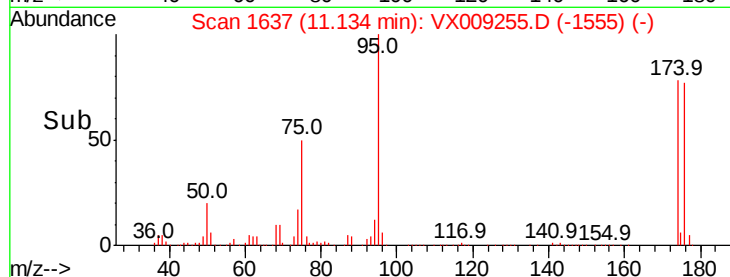
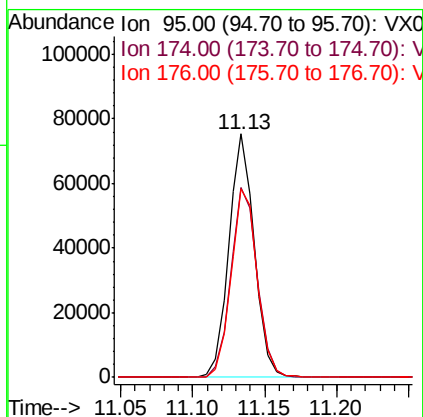
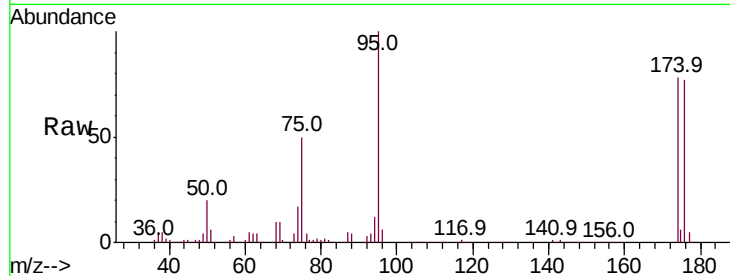




#60
 4-Bromofluorobenzene
 Concen: 28.610 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX009255.D
 Acq: 01 May 2019 13:54

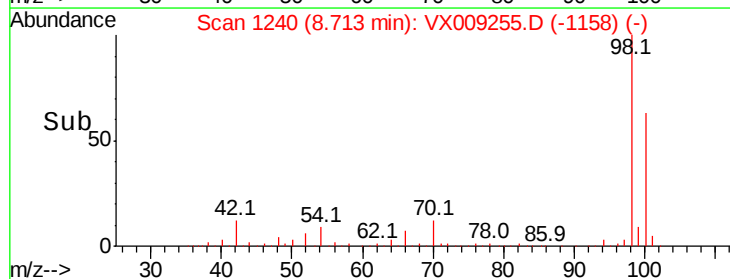
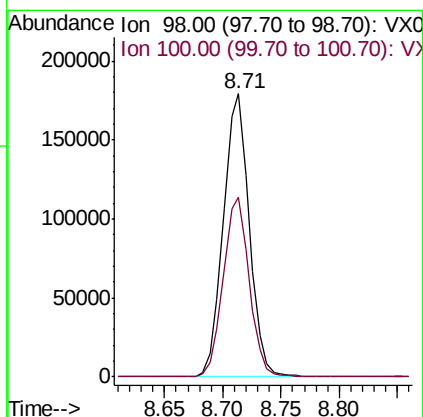
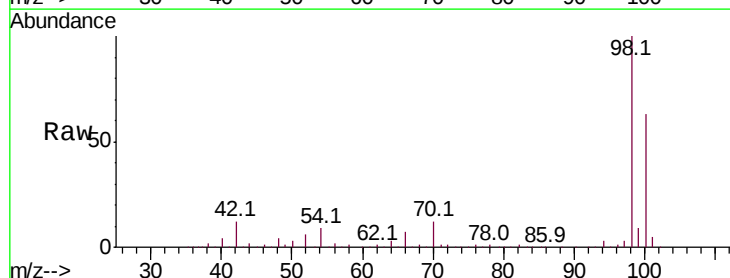
Instrument :
 MSVOA_X
 ClientSampleId :
 I.BLK

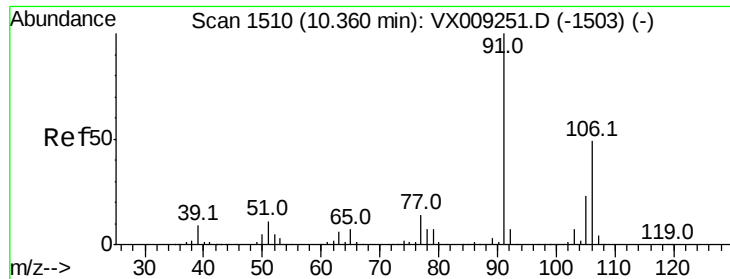
Tot Ion: 95 Resp: 93813
 Ion Ratio Lower Upper
 95 100
 174 81.0 63.6 95.4
 176 79.3 62.4 93.6



#63
 Toluene-d8
 Concen: 30.250 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX009255.D
 Acq: 01 May 2019 13:54

Tgt Ion: 98 Resp: 276753
 Ion Ratio Lower Upper
 98 100
 100 63.6 52.3 78.5





#67

m/p-Xvlenes

Concen: 0.206 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX009255.D

Acq: 01 May 2019 13:54

Instrument :

MSVOA_X

ClientSampled :

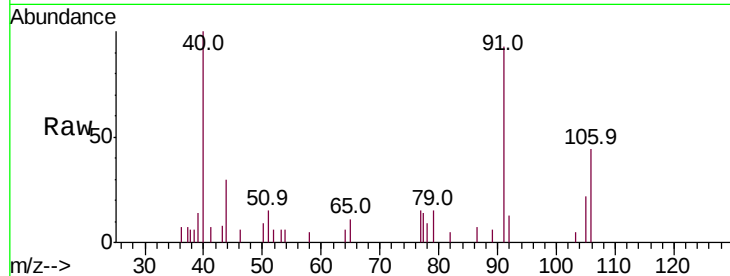
I.BLK

Tot Ion:106 Resp: 864

Ion Ratio Lower Upper

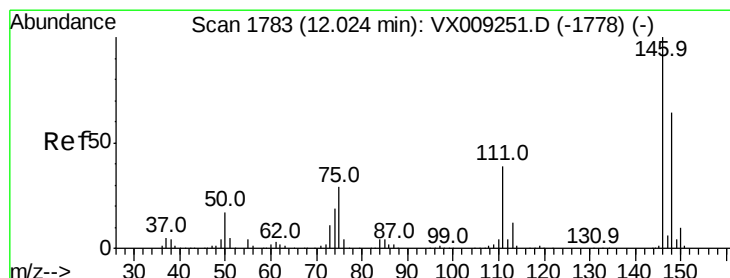
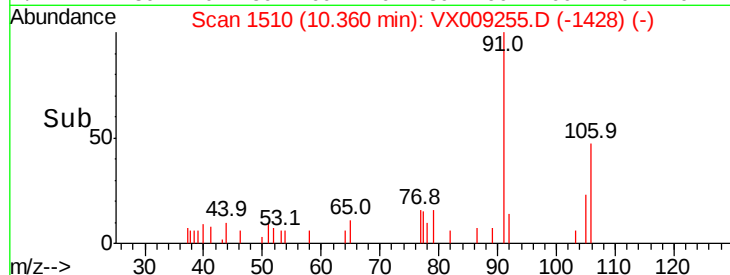
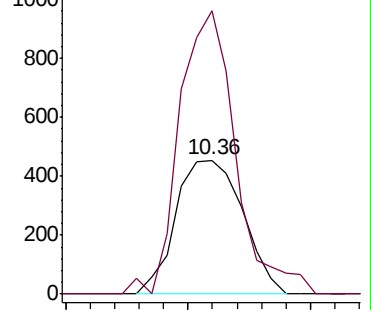
106 100

91 175.3 166.8 250.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#83

1,3-Dichlorobenzene

Concen: 0.206 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VX009255.D

Acq: 01 May 2019 13:54

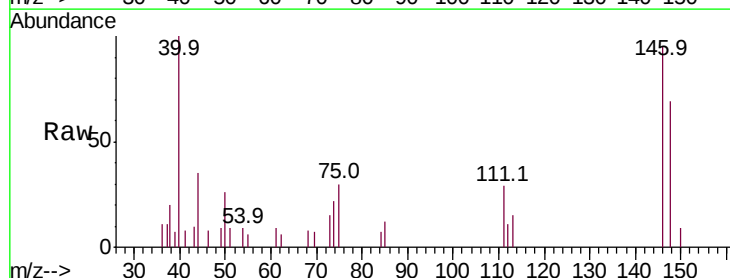
Tgt Ion:146 Resp: 1008

Ion Ratio Lower Upper

146 100

111 39.1 20.0 60.0

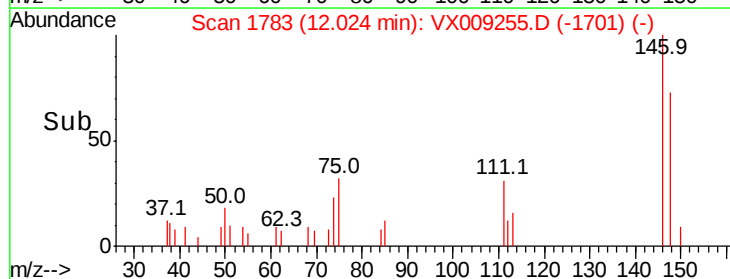
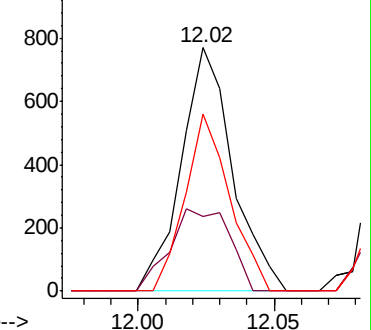
148 63.5 32.2 96.6

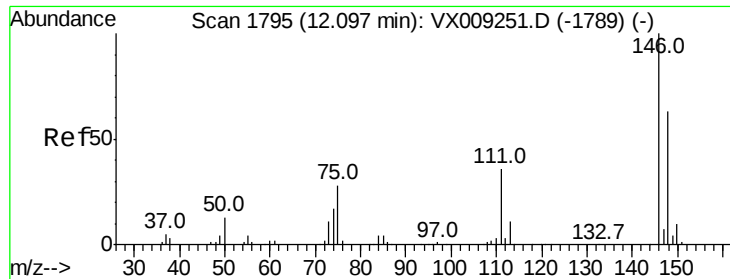


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

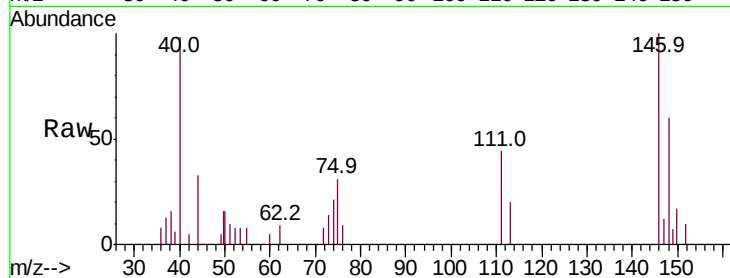




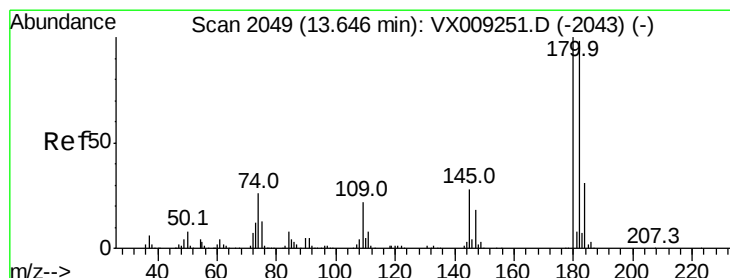
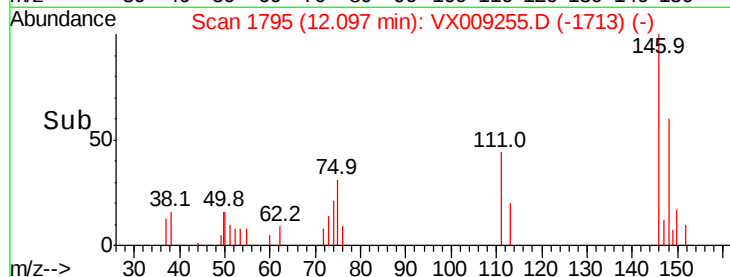
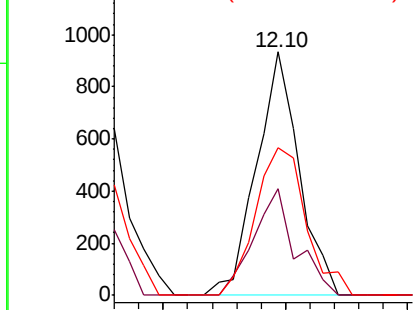
#84
 1,4-Dichlorobenzene
 Concen: 0.233 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX009255.D
 Acq: 01 May 2019 13:54

Instrument :
 MSVOA_X
 ClientSampled :
 I.BLK

Tot Ion:146 Resp: 1135
 Ion Ratio Lower Upper
 146 100
 111 43.1 19.6 58.7
 148 72.4 32.3 96.8

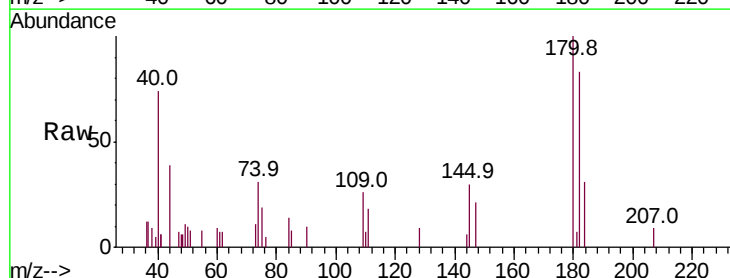


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

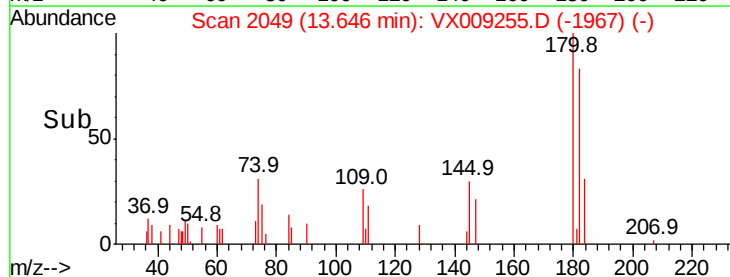
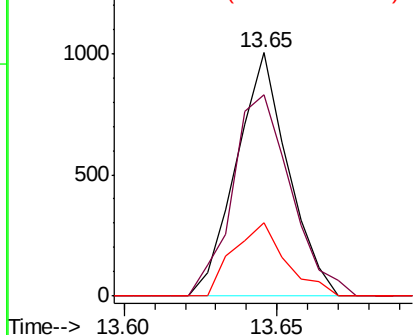


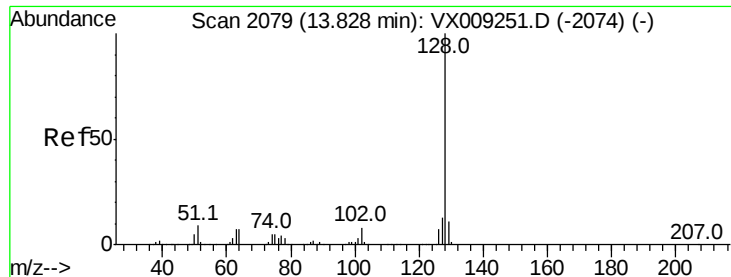
#89
 1,2,4-Trichlorobenzene
 Concen: 0.336 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX009255.D
 Acq: 01 May 2019 13:54

Tgt Ion:180 Resp: 1179
 Ion Ratio Lower Upper
 180 100
 182 93.6 76.9 115.3
 145 30.4 23.0 34.6



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#91

Naphthalene

Concen: 0.358 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VX009255.D

Acq: 01 May 2019 13:54

Instrument :

MSVOA_X

ClientSampleId :

I.BLK

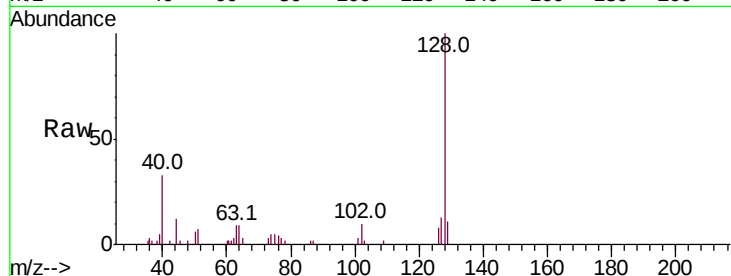
Tot Ion:128 Resp: 4110

Ion Ratio Lower Upper

128 100

127 13.3 10.5 15.7

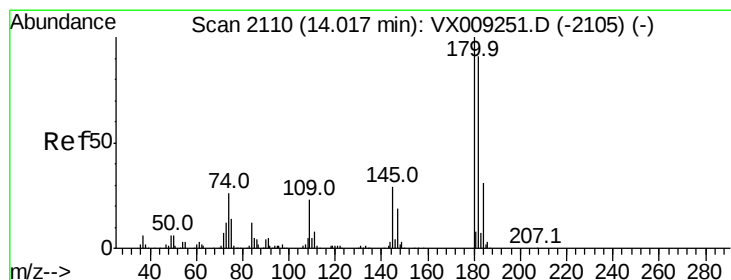
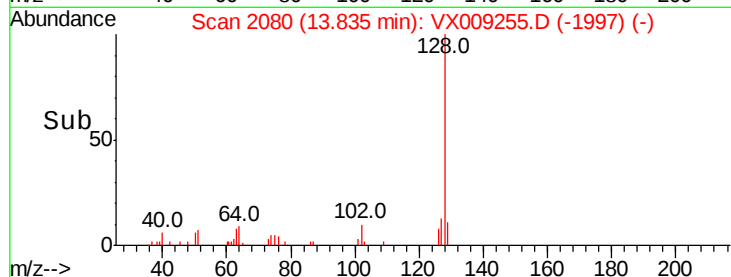
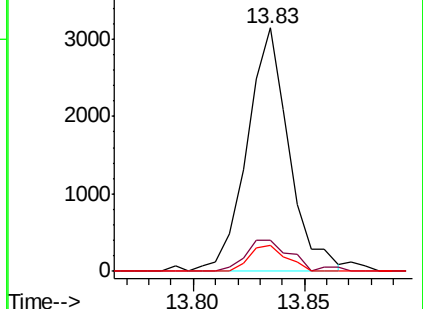
129 9.4 8.7 13.1



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



#92

1,2,3-Trichlorobenzene

Concen: 0.339 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VX009255.D

Acq: 01 May 2019 13:54

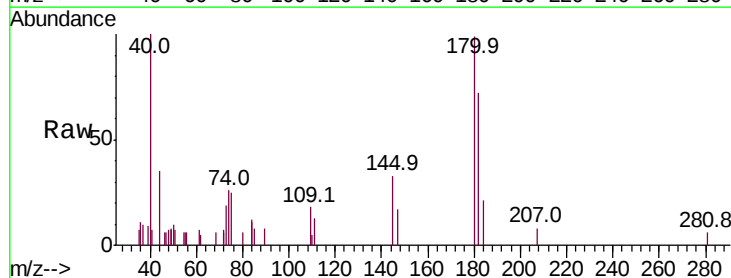
Tgt Ion:180 Resp: 1211

Ion Ratio Lower Upper

180 100

182 87.4 0.0 189.0

145 29.6 0.0 61.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

