

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062119\
 Data File : VX010383.D
 Acq On : 21 Jun 2019 14:38
 Operator : JC/SP
 Sample : K3473-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-1

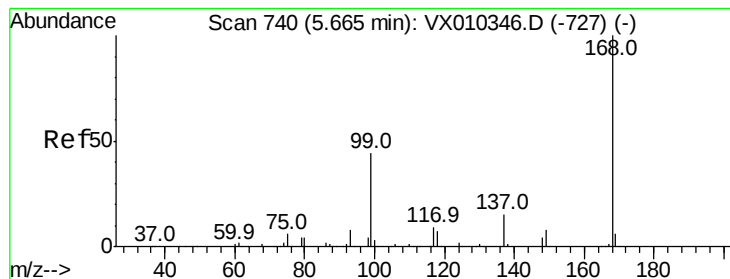
Quant Time: Jun 22 00:20:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	297957	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	454772	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	406591	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187568	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	139233	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
35) Dibromofluoromethane	5.50	113	138329	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
50) Toluene-d8	8.71	98	533222	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
62) 4-Bromofluorobenzene	11.13	95	177352	46.15	ug/l	0.00
Spiked Amount			Recovery	=	92.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	59281	22.438	ug/l	99
6) Chloroethane	1.73	64	100835	64.691	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1031	0.406	ug/l #	22
11) Tert butyl alcohol	3.04	59	10174	13.918	ug/l #	94
12) 1,1-Dichloroethene	2.37	96	343089	132.845	ug/l	97
16) Acetone	2.45	43	3509	2.506	ug/l	95
20) Methylene Chloride	2.85	84	3327	1.155	ug/l	90
24) 1,1-Dichloroethane	3.70	63	159098	35.904	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	64926	20.227	ug/l	91
31) Cyclohexane	5.58	56	1192	0.295	ug/l #	77
39) Methylcyclohexane	7.46	83	2569	0.541	ug/l	95
40) Benzene	6.14	78	8922	0.792	ug/l #	89
42) 1,2-Dichloroethane	6.20	62	23331	6.808	ug/l	96
44) Trichloroethene	7.21	130	4415	1.310	ug/l	80
49) 1,4-Dioxane	7.74	88	183254	2224.956	ug/l	96
69) o-Xylene	10.70	106	1946	0.366	ug/l	99
85) sec-Butylbenzene	11.94	105	3697	0.299	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010383.D

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Instrument :

MSVOA_X

ClientSampleId :

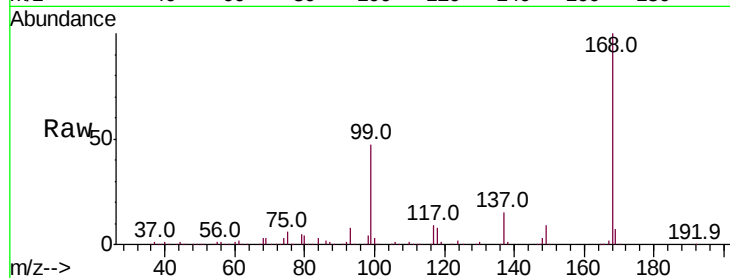
MW-1

Tot Ion:168 Resp: 297957

Ion Ratio Lower Upper

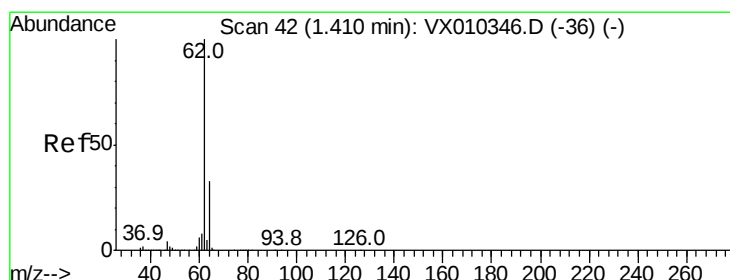
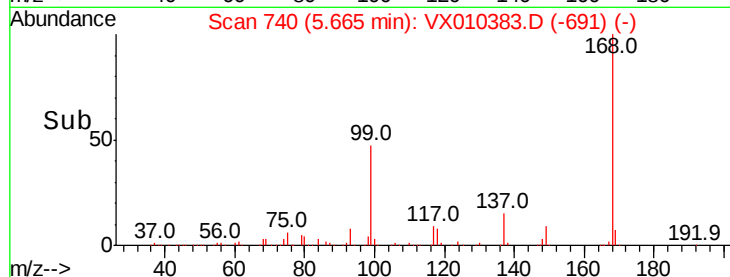
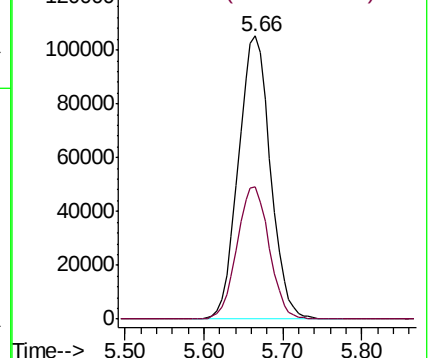
168 100

99 46.8 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 22.438 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010383.D

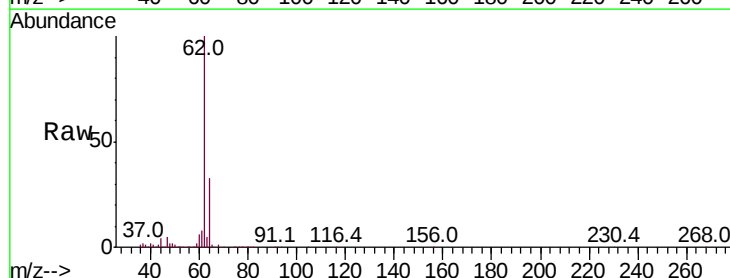
Acq: 21 Jun 2019 14:38

Tgt Ion: 62 Resp: 59281

Ion Ratio Lower Upper

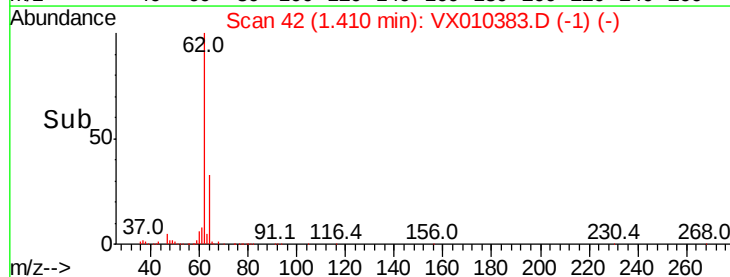
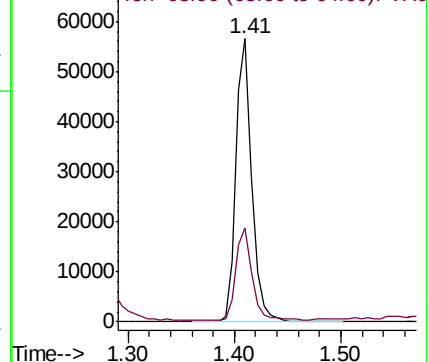
62 100

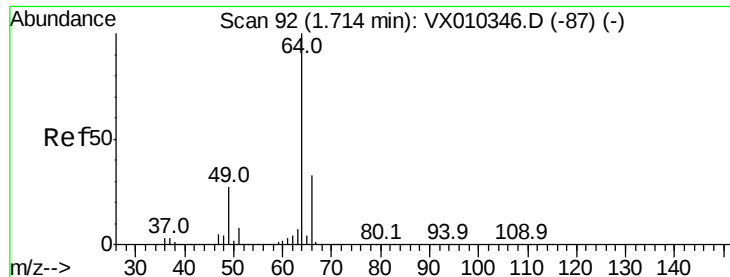
64 32.5 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#6

Chloroethane

Concen: 64.691 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX010383.D

Acq: 21 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampled :

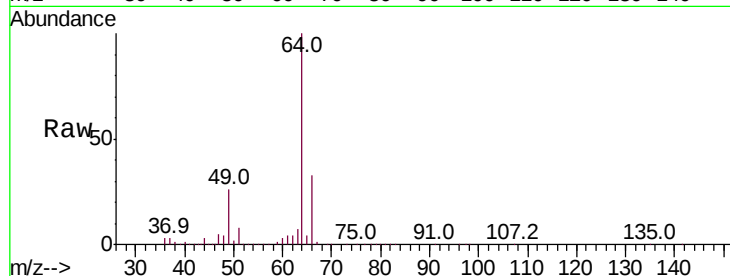
MW-1

Tot Ion: 64 Resp: 100835

Ion Ratio Lower Upper

64 100

66 33.6 26.6 40.0



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

80000

60000

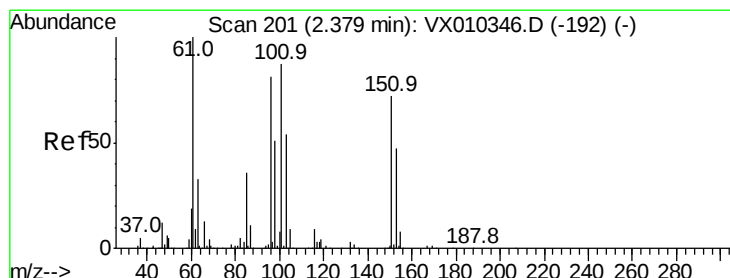
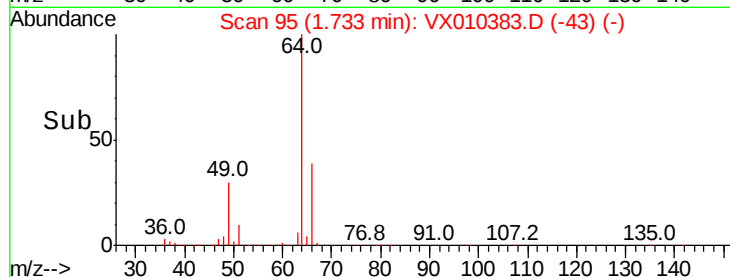
40000

20000

0

1.65 1.70 1.75 1.80

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.406 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.01 min

Lab File: VX010383.D

Acq: 21 Jun 2019 14:38

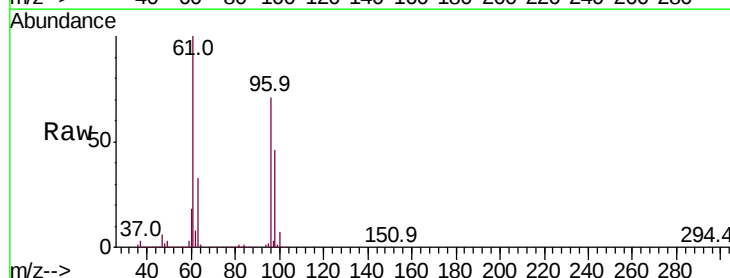
Tgt Ion:101 Resp: 1031

Ion Ratio Lower Upper

101 100

85 0.0 33.7 50.5#

151 10.1 70.1 105.1#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

800

600

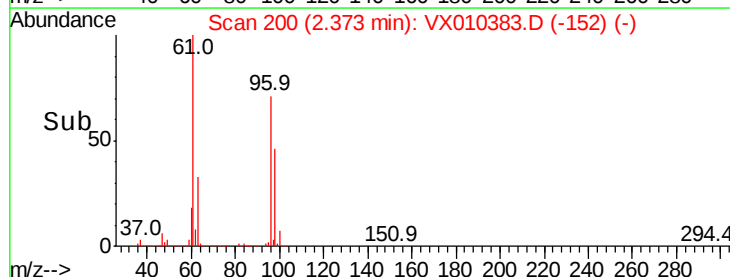
400

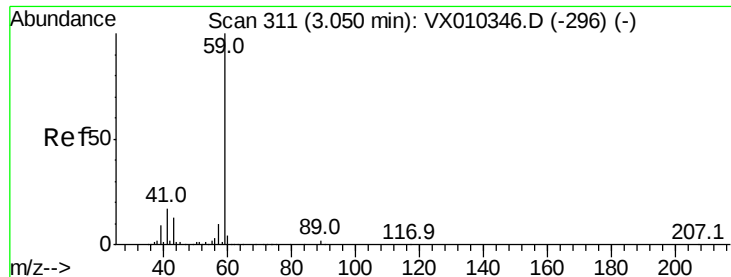
200

0

2.30 2.35 2.40

Time-->

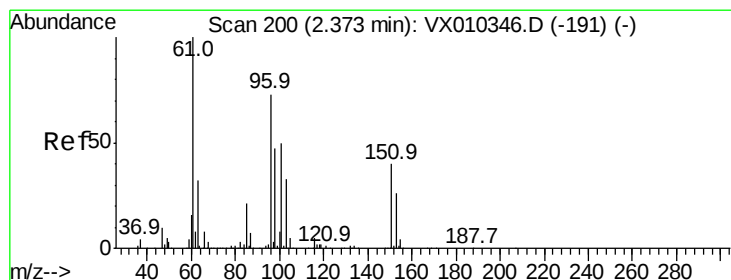
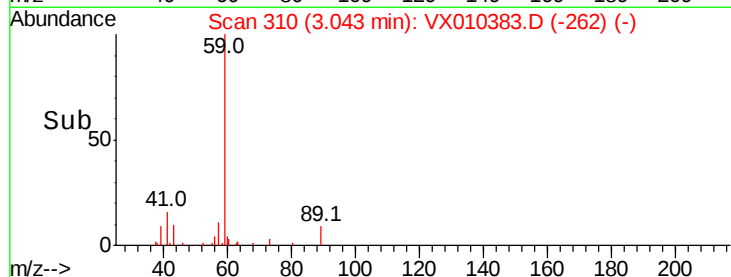
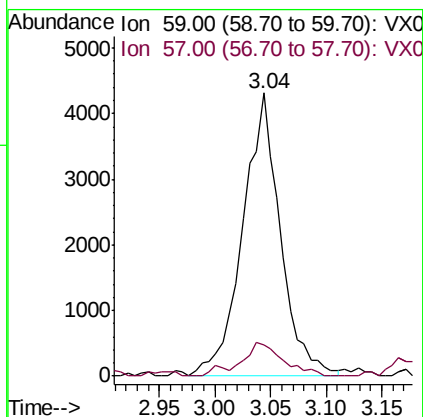
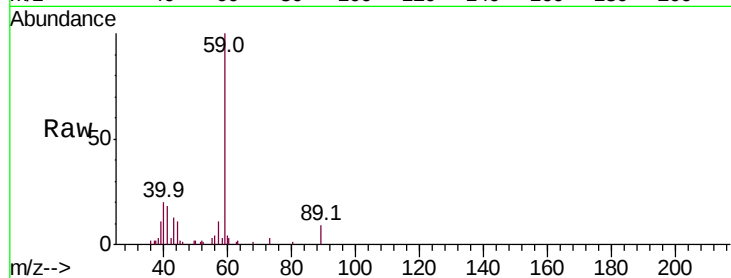




#11
Tert butyl alcohol
Concen: 13.918 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX010383.D
Acq: 21 Jun 2019 14:38

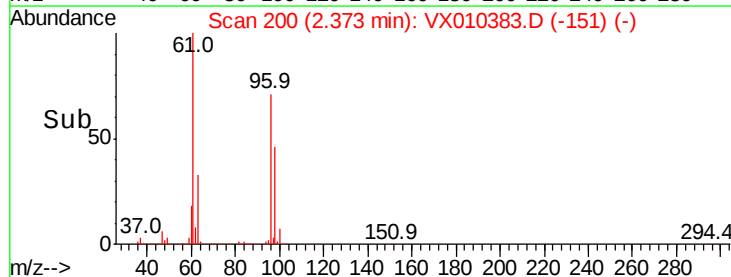
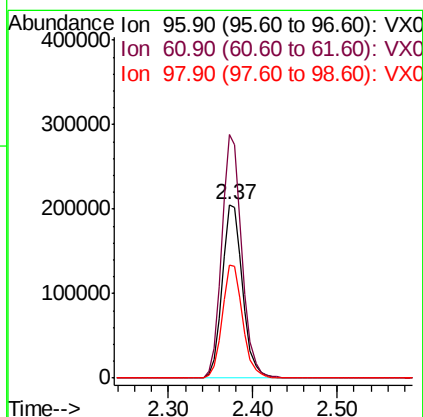
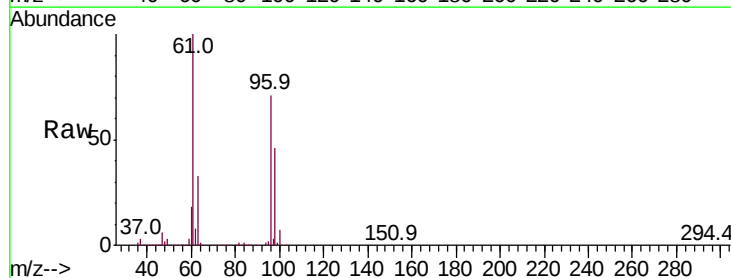
Instrument :
MSVOA_X
ClientSampleId :
MW-1

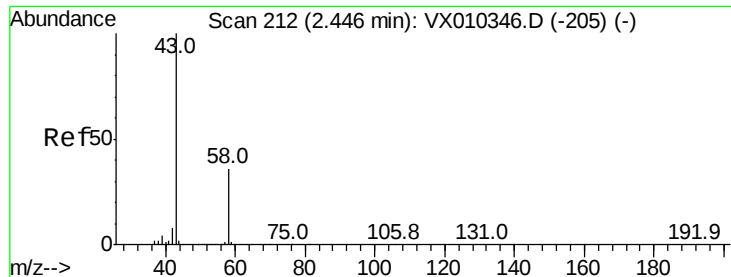
Tot Ion: 59 Resp: 10174
Ion Ratio Lower Upper
59 100
57 11.6 7.7 11.5#



#12
1,1-Dichloroethene
Concen: 132.845 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX010383.D
Acq: 21 Jun 2019 14:38

Tgt Ion: 96 Resp: 343089
Ion Ratio Lower Upper
96 100
61 140.4 109.2 163.8
98 65.0 51.1 76.7





#16

Acetone

Concen: 2.506 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010383.D

Acq: 21 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampled :

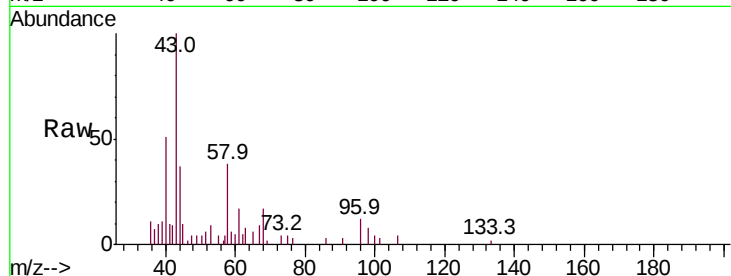
MW-1

Tot Ion: 43 Resp: 3509

Ion Ratio Lower Upper

43 100

58 39.1 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

2000

1500

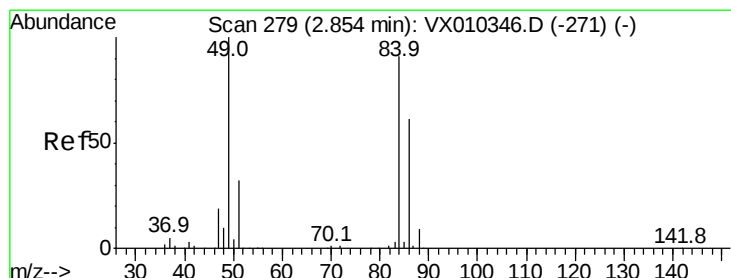
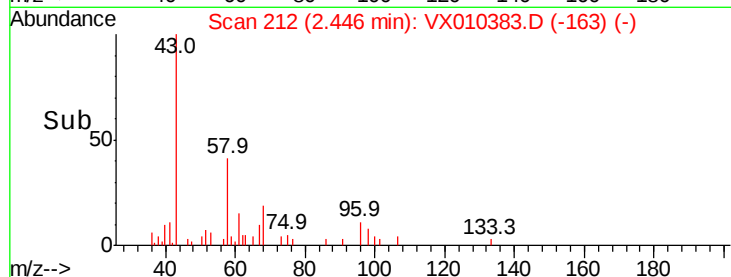
1000

500

0

2.40 2.45 2.50

Time-->



#20

Methylene Chloride

Concen: 1.155 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX010383.D

Acq: 21 Jun 2019 14:38

Tgt Ion: 84 Resp: 3327

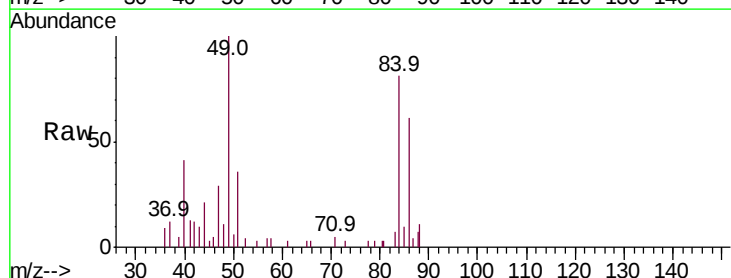
Ion Ratio Lower Upper

84 100

49 120.3 87.5 131.3

51 39.1 27.7 41.5

86 75.8 53.4 80.0



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

3000

2500

2000

1500

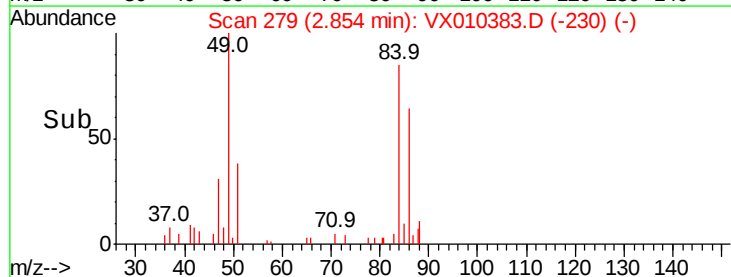
1000

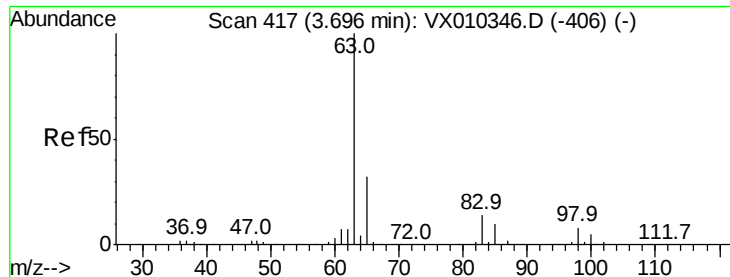
500

0

2.80 2.85 2.90 2.95

Time-->





#24

1,1-Dichloroethane

Concen: 35.904 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX010383.D

Acq: 21 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampled :

MW-1

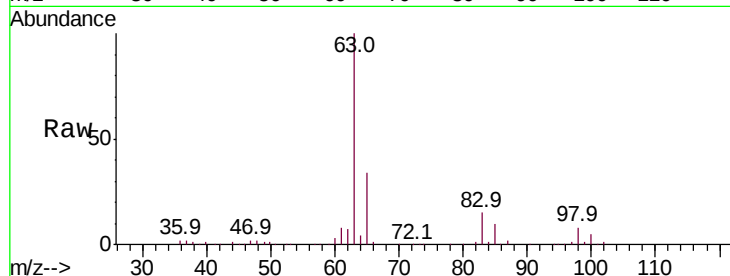
Tot Ion: 63 Resp: 159098

Ion Ratio Lower Upper

63 100

98 8.0 3.9 11.7

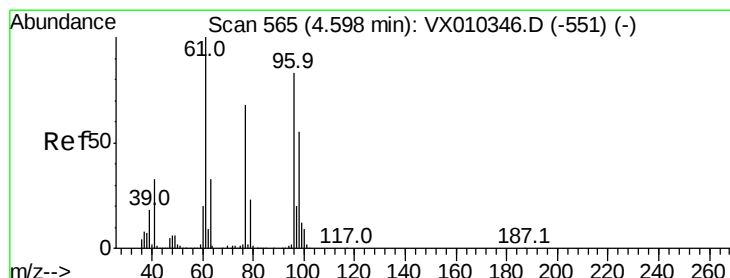
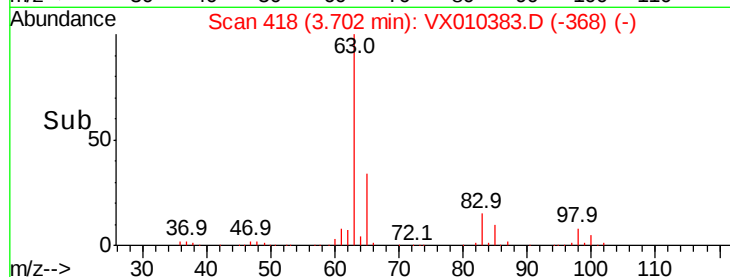
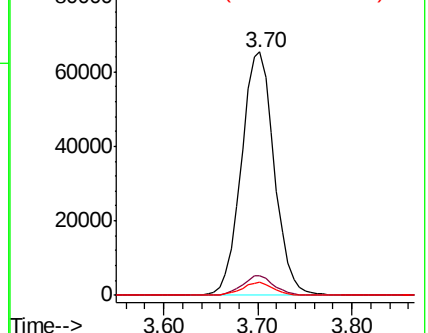
100 5.4 2.4 7.1



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 20.227 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX010383.D

Acq: 21 Jun 2019 14:38

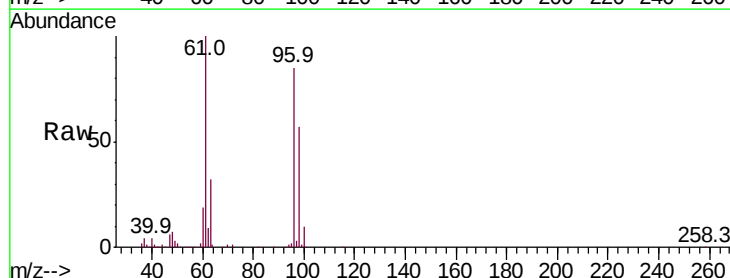
Tgt Ion: 96 Resp: 64926

Ion Ratio Lower Upper

96 100

61 109.8 0.0 251.8

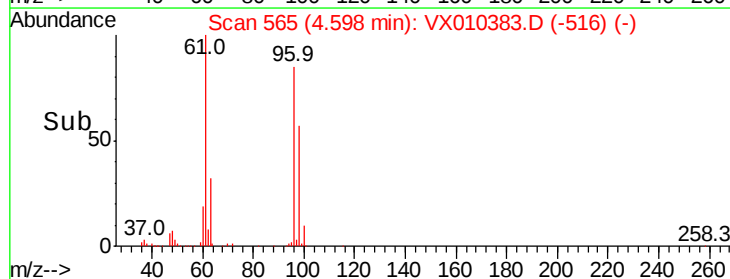
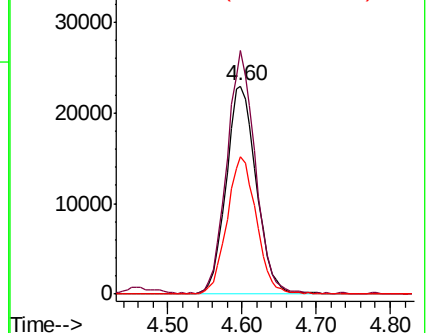
98 64.5 0.0 129.4

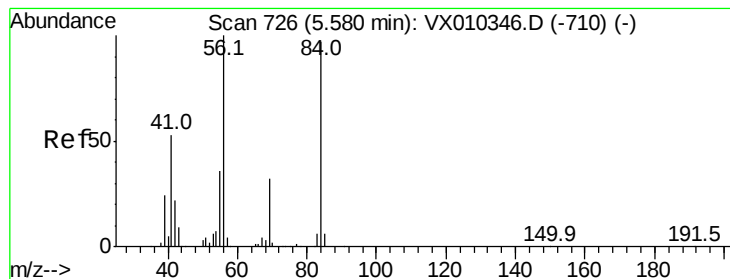


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 0.295 ug/l

RT: 5.58 min Scan# 726

Delta R.T. -0.00 min

Lab File: VX010383.D

Acq: 21 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

MW-1

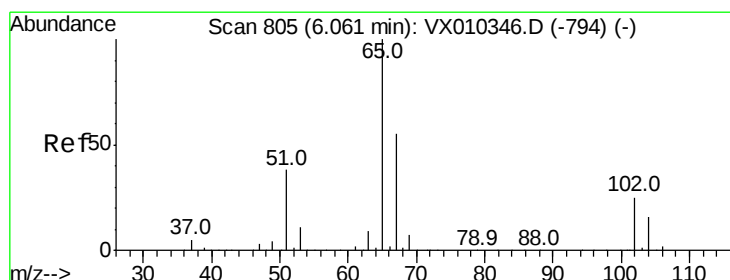
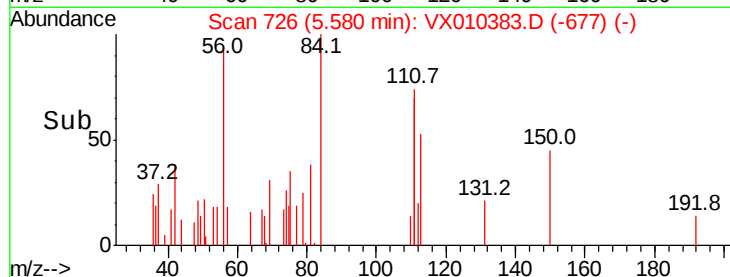
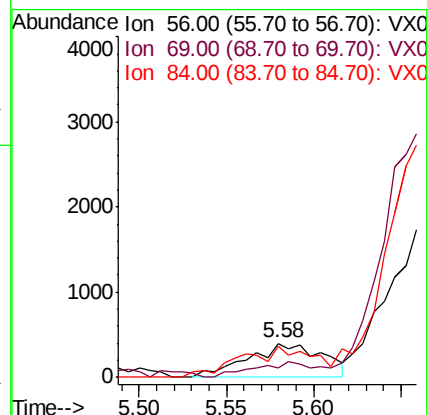
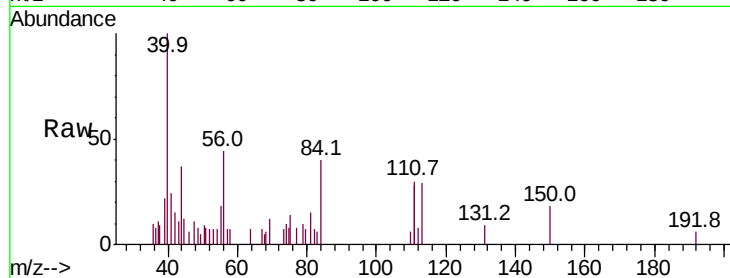
Tot Ion: 56 Resp: 1192

Ion Ratio Lower Upper

56 100

69 14.8 25.9 38.9#

84 77.2 78.0 117.0#



#33

1,2-Dichloroethane-d4

Concen: 49.839 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010383.D

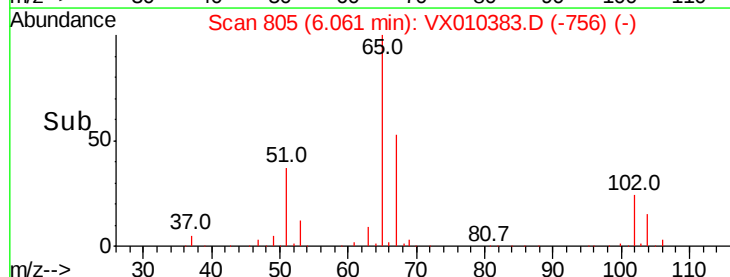
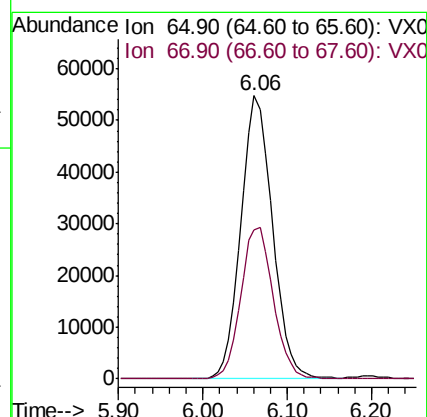
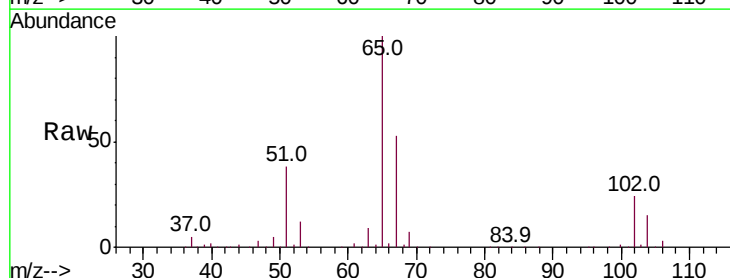
Acq: 21 Jun 2019 14:38

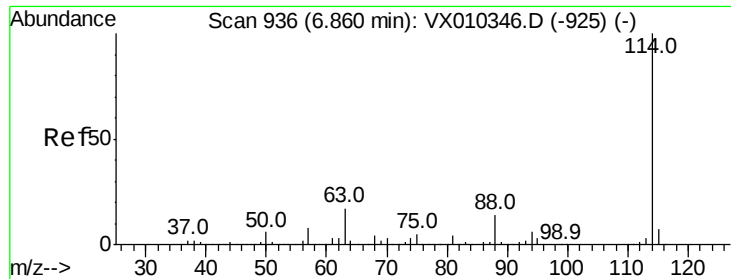
Tgt Ion: 65 Resp: 139233

Ion Ratio Lower Upper

65 100

67 54.9 0.0 110.2

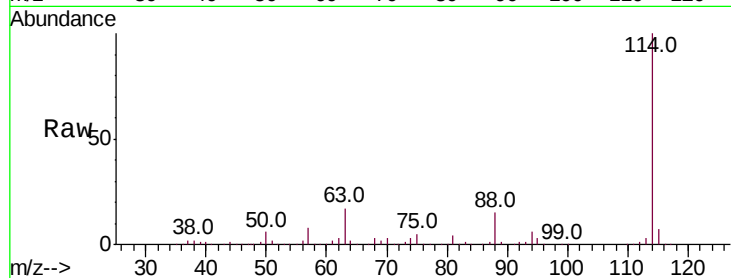




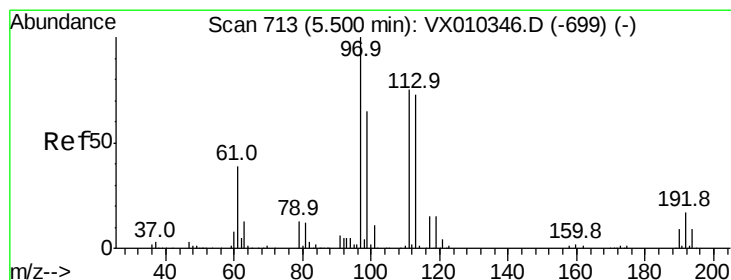
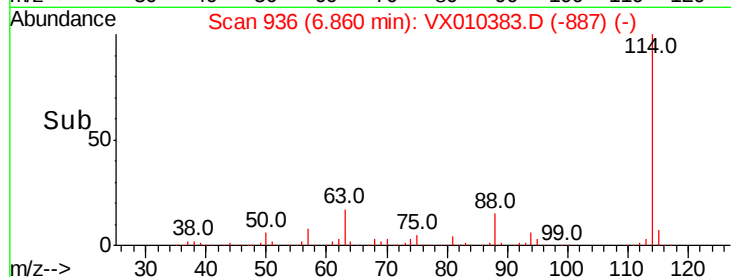
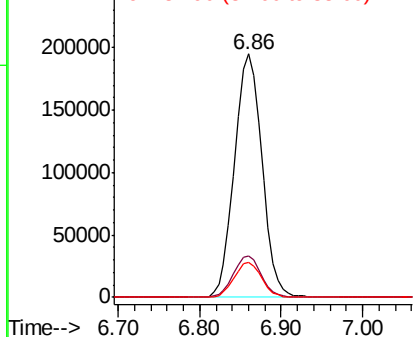
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX010383.D
Acq: 21 Jun 2019 14:38

Instrument :
MSVOA_X
ClientSampleId :
MW-1

Tot Ion:114 Resp: 454772
Ion Ratio Lower Upper
114 100
63 17.1 0.0 33.8
88 14.6 0.0 27.6

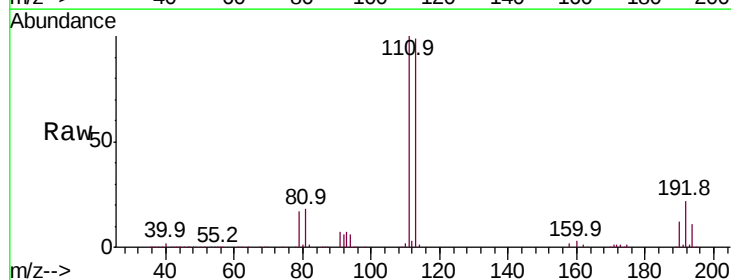


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

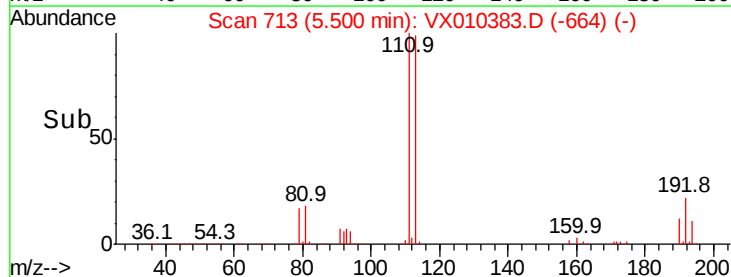
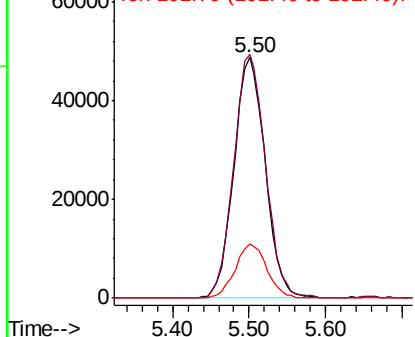


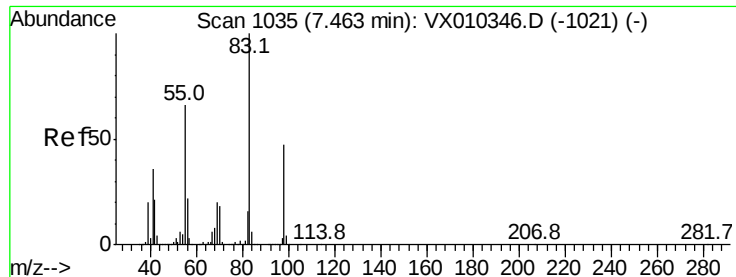
#35
Dibromofluoromethane
Concen: 49.715 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX010383.D
Acq: 21 Jun 2019 14:38

Tgt Ion:113 Resp: 138329
Ion Ratio Lower Upper
113 100
111 102.5 81.2 121.8
192 22.7 18.6 27.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#39

Methvlcvclohexane

Concen: 0.541 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. -0.00 min

Lab File: VX010383.D

Acq: 21 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampled :

MW-1

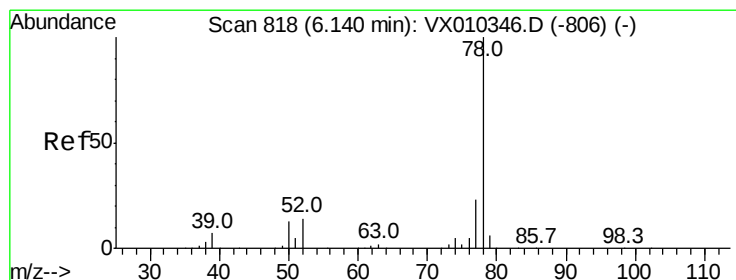
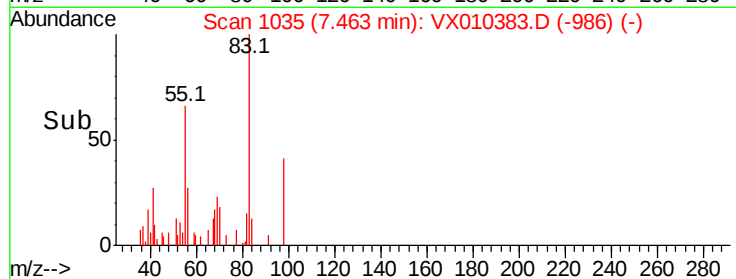
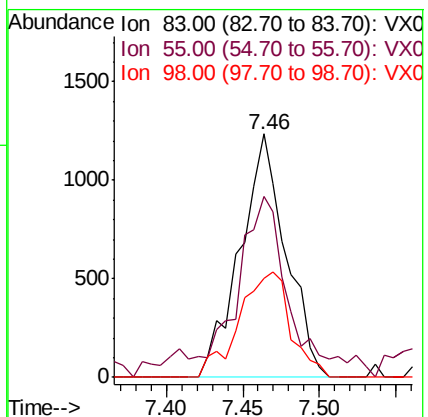
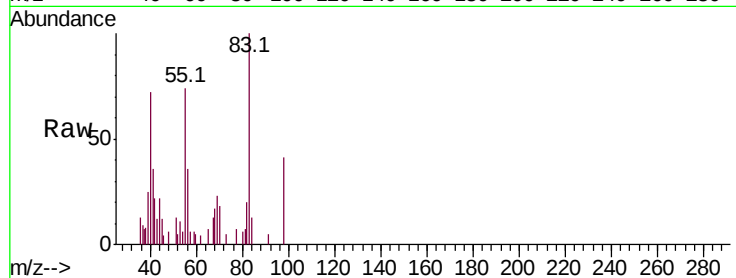
Tot Ion: 83 Resp: 2569

Ion Ratio Lower Upper

83 100

55 67.2 53.0 79.6

98 40.7 37.8 56.8



#40

Benzene

Concen: 0.792 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.00 min

Lab File: VX010383.D

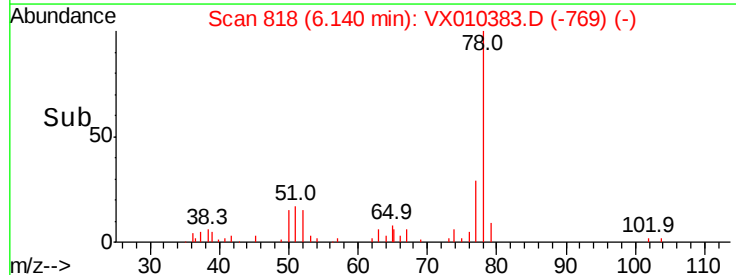
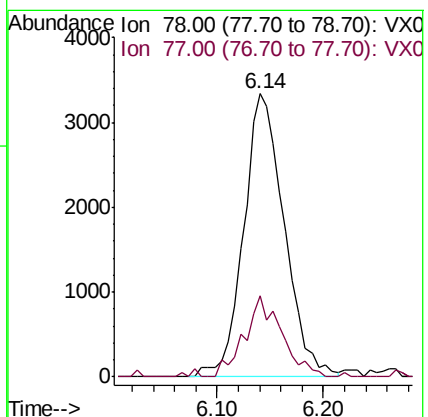
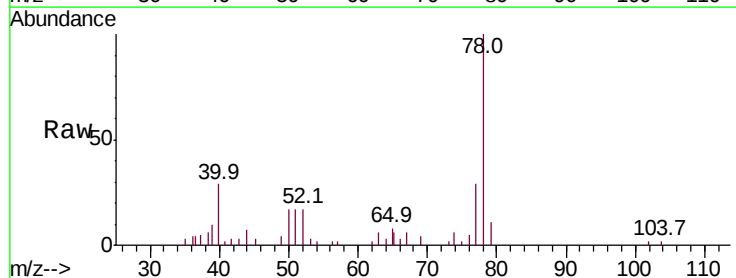
Acq: 21 Jun 2019 14:38

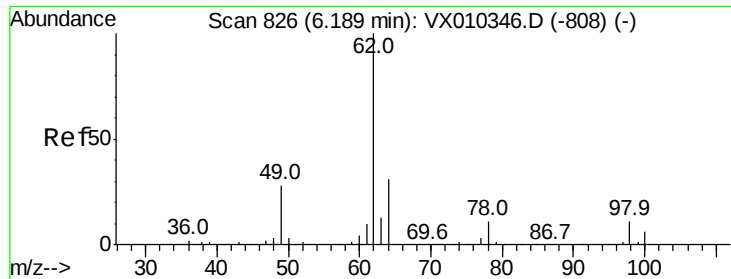
Tgt Ion: 78 Resp: 8922

Ion Ratio Lower Upper

78 100

77 28.9 18.6 28.0#





#42

1,2-Dichloroethane

Concen: 6.808 ug/l

RT: 6.20 min Scan# 827

Delta R.T. 0.01 min

Lab File: VX010383.D

Acq: 21 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

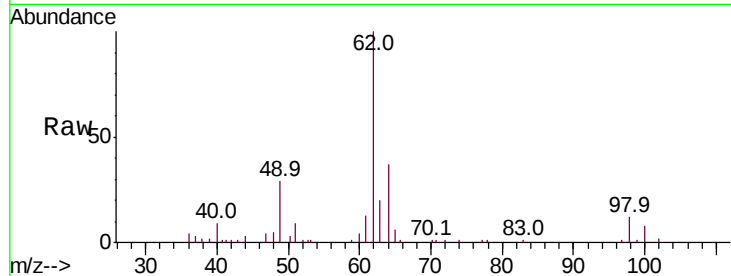
MW-1

Tot Ion: 62 Resp: 23331

Ion Ratio Lower Upper

62 100

98 12.6 0.0 22.2



Abundance Ion 61.90 (61.60 to 62.60): VX010346.D (-808) (-)

Ion 97.90 (97.60 to 98.60): VX010346.D (-808) (-)

6.20

8000

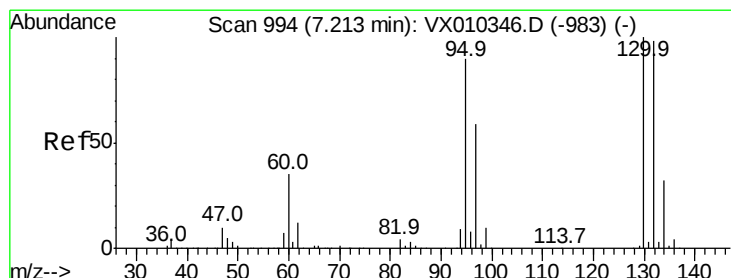
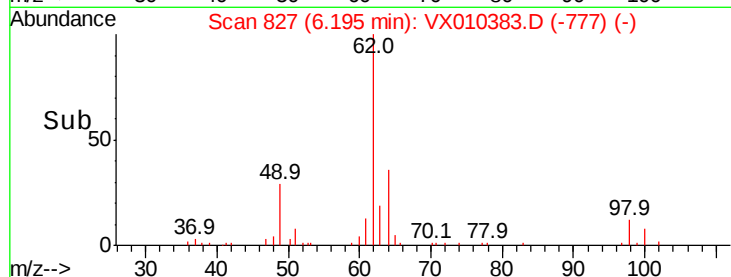
6000

4000

2000

0

Time-->



#44

Trichloroethene

Concen: 1.310 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX010383.D

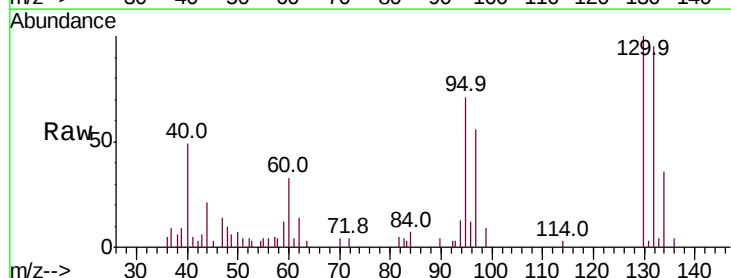
Acq: 21 Jun 2019 14:38

Tgt Ion:130 Resp: 4415

Ion Ratio Lower Upper

130 100

95 71.4 0.0 180.8



Abundance Ion 129.80 (129.50 to 130.50): VX010346.D (-983) (-)

Ion 94.90 (94.60 to 95.60): VX010346.D (-983) (-)

7.21

2000

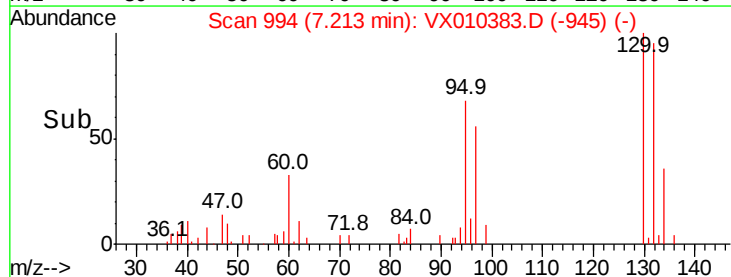
1500

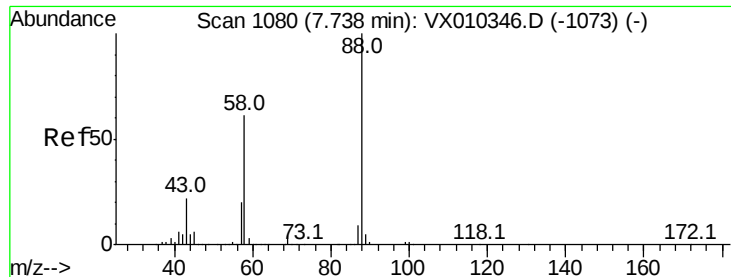
1000

500

0

Time-->





#49

1,4-Dioxane

Concen: 2224.956 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.00 min

Lab File: VX010383.D

Acq: 21 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

MW-1

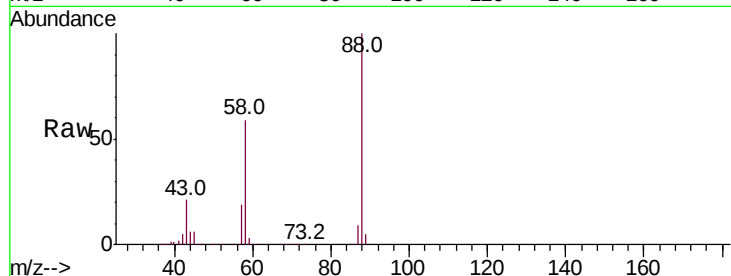
Tot Ion: 88 Resp: 183254

Ion Ratio Lower Upper

88 100

43 21.7 20.2 30.2

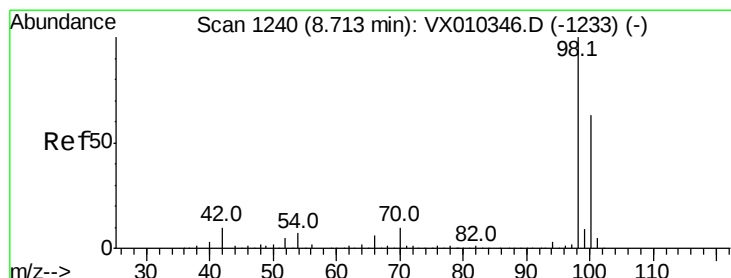
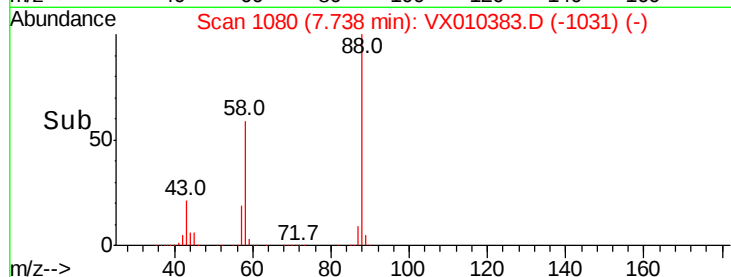
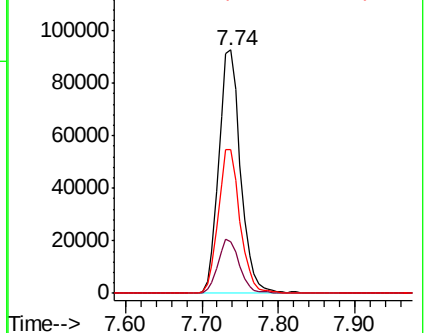
58 59.2 49.5 74.3



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: 50.091 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010383.D

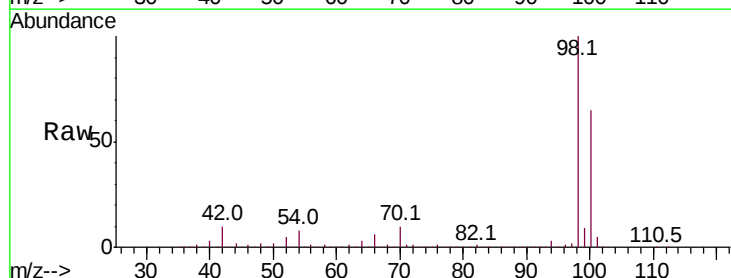
Acq: 21 Jun 2019 14:38

Tgt Ion: 98 Resp: 533222

Ion Ratio Lower Upper

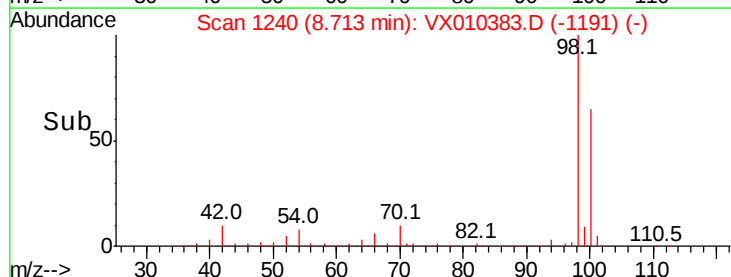
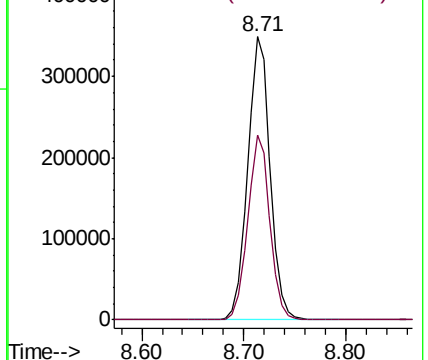
98 100

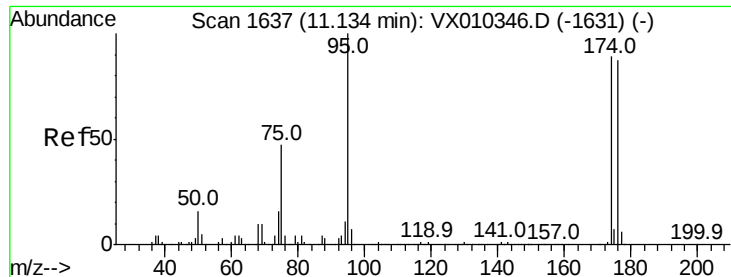
100 64.4 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.147 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010383.D

Acq: 21 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

MW-1

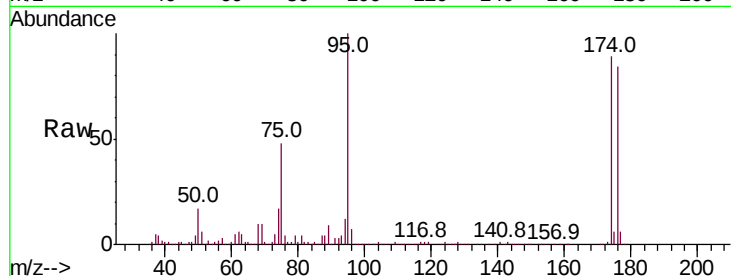
Tot Ion: 95 Resp: 177352

Ion Ratio Lower Upper

95 100

174 95.0 0.0 187.6

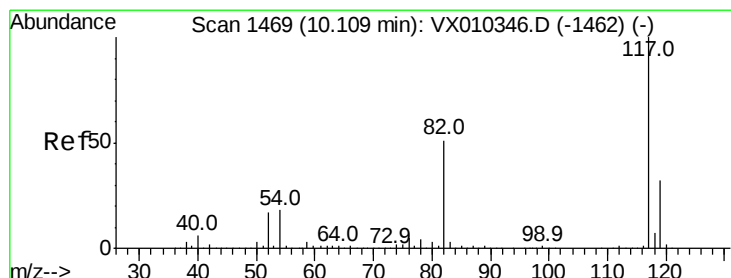
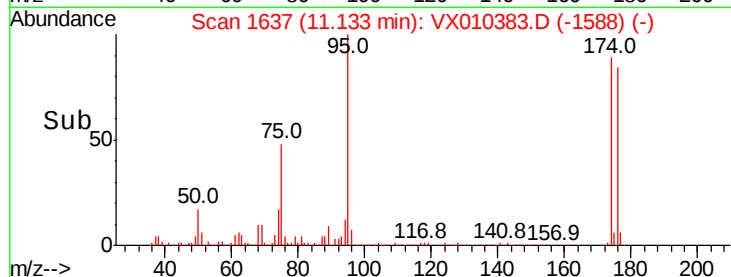
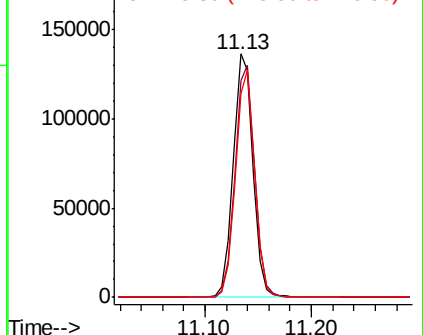
176 91.4 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX010383.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX010383.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX010383.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010383.D

Acq: 21 Jun 2019 14:38

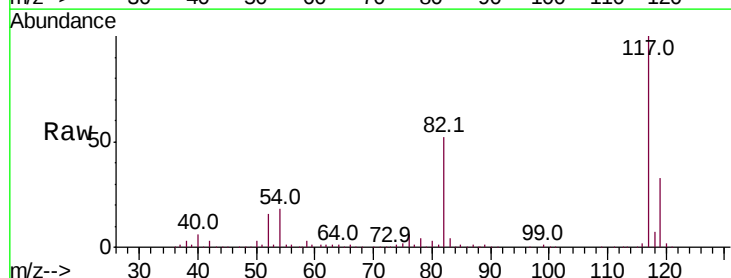
Tgt Ion: 117 Resp: 406591

Ion Ratio Lower Upper

117 100

82 52.2 41.2 61.8

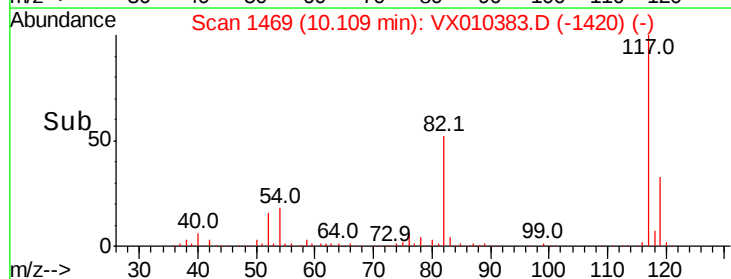
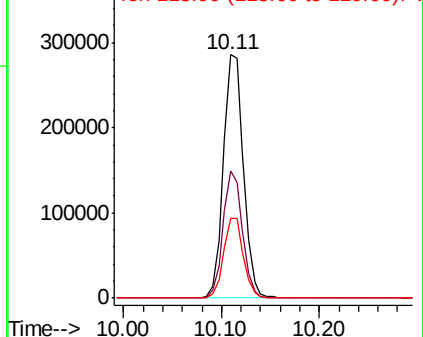
119 32.8 25.5 38.3

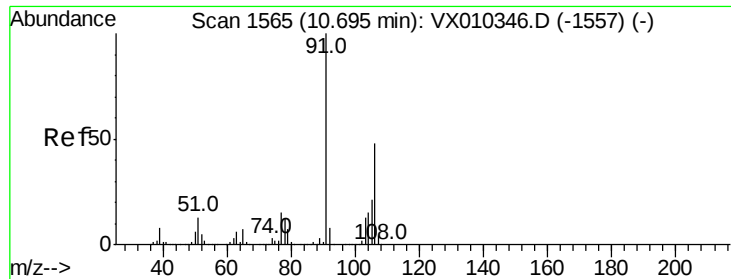


Abundance Ion 116.90 (116.60 to 117.60): VX010383.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX010383.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX010383.D (-1420) (-)

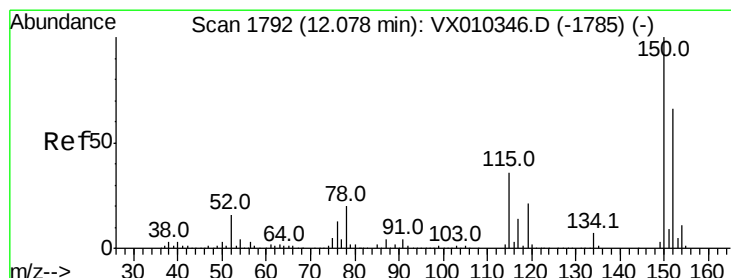
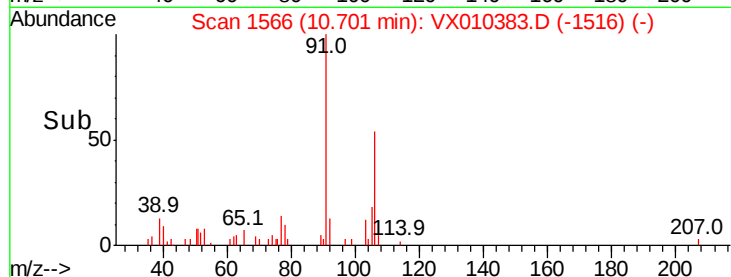
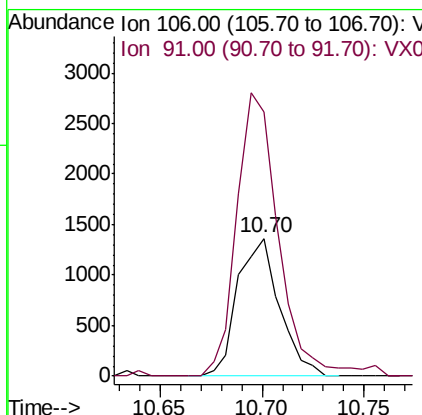
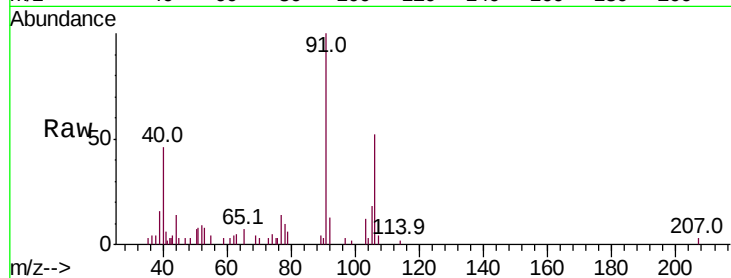




#69
o-Xylene
Concen: 0.366 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX010383.D
Acq: 21 Jun 2019 14:38

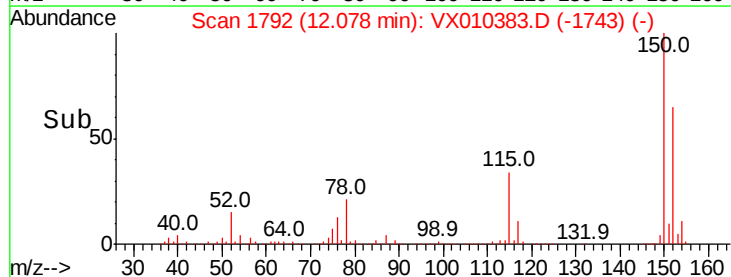
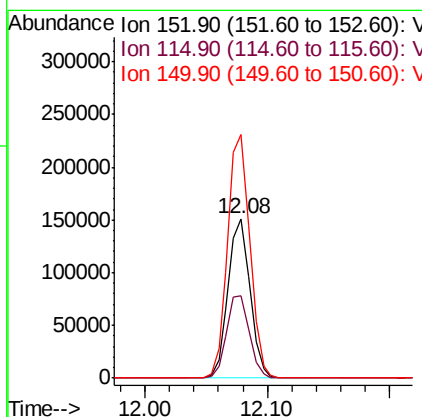
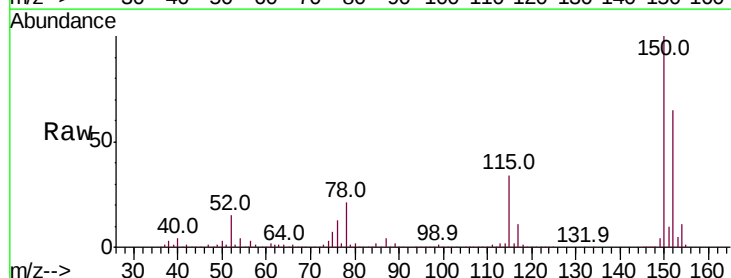
Instrument :
MSVOA_X
ClientSampleId :
MW-1

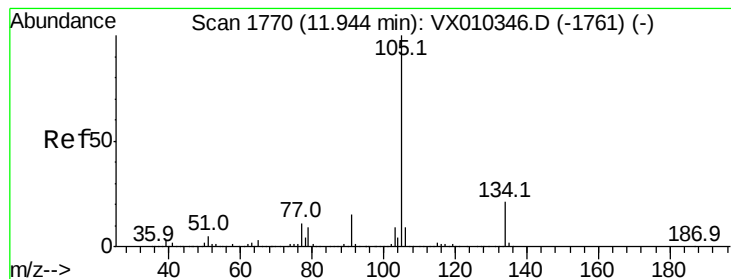
Tot Ion:106 Resp: 1946
Ion Ratio Lower Upper
106 100
91 206.9 102.7 308.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010383.D
Acq: 21 Jun 2019 14:38

Tgt Ion:152 Resp: 187568
Ion Ratio Lower Upper
152 100
115 53.6 38.6 115.7
150 154.8 0.0 347.4





#85

sec-Butylbenzene

Concen: 0.299 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX010383.D

Acq: 21 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

MW-1

Tot Ion:105 Resp: 3697

Ion Ratio Lower Upper

105 100

134 18.8 10.7 31.9

