

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\
 Data File : VX012842.D
 Acq On : 07 Oct 2019 16:47
 Operator : JC/SP
 Sample : K5154-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-105S

Quant Time: Oct 08 11:12:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	178950	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	303011	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	260802	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	102339	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	118548	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	
35) Dibromofluoromethane	5.49	113	92996	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
50) Toluene-d8	8.71	98	358627	51.60	ug/l	0.00
Spiked Amount			Recovery	=	103.20%	
62) 4-Bromofluorobenzene	11.13	95	125507	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	

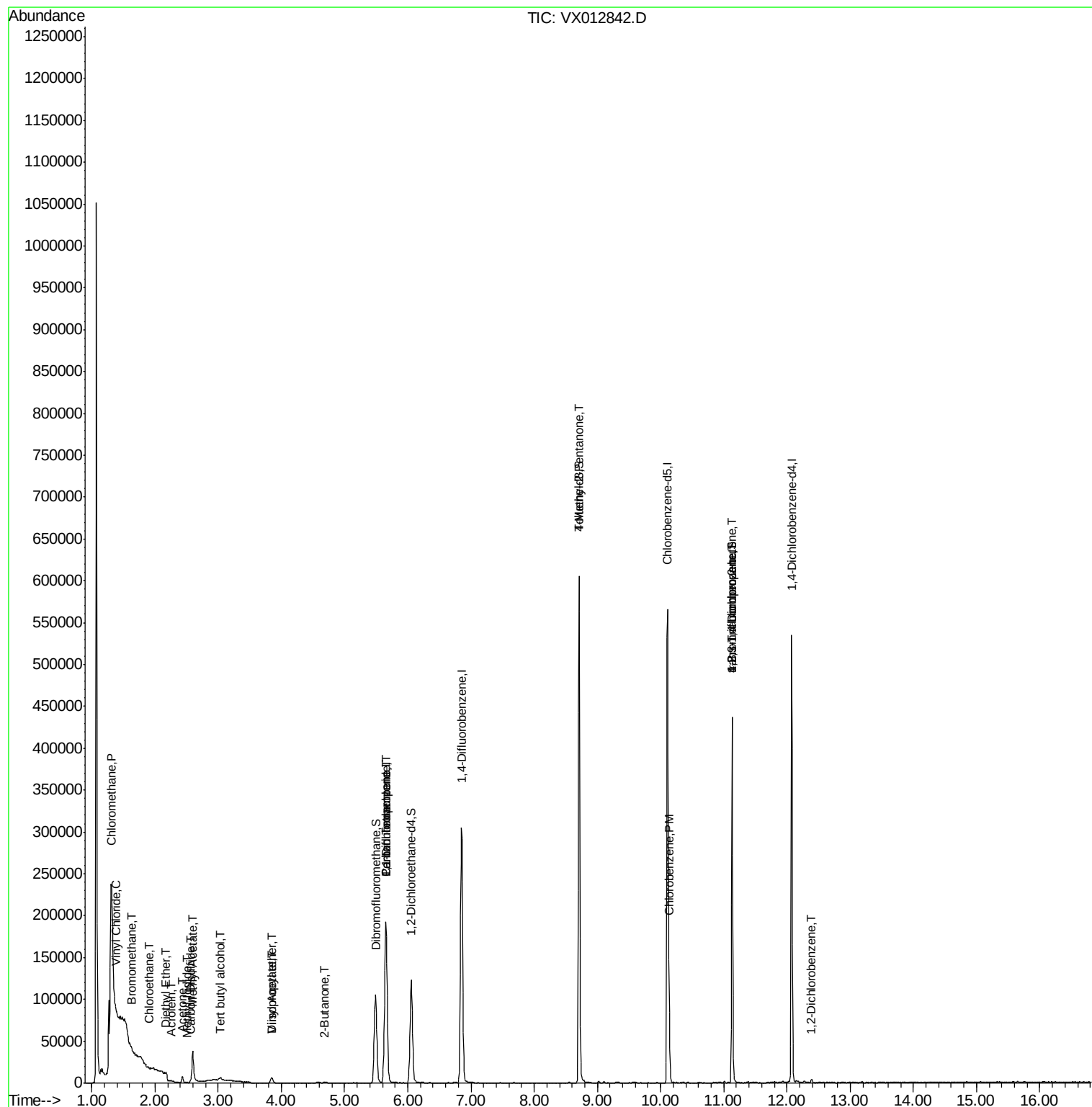
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	9489	4.105	ug/l #	56
4) Vinyl Chloride	1.39	62	621	0.270	ug/l #	1
5) Bromomethane	1.64	94	387	0.428	ug/l #	44
6) Chloroethane	1.91	64	1837	1.186	ug/l #	60
8) Diethyl Ether	2.18	74	613	0.464	ug/l	95
10) Methyl Iodide	2.51	142	181	5.032	ug/l #	35
11) Tert butyl alcohol	3.03	59	2844	4.369	ug/l #	86
13) Acrolein	2.26	56	20	10.286	ug/l #	1
16) Acetone	2.44	43	7572	5.486	ug/l #	89
17) Carbon Disulfide	2.56	76	3815	0.707	ug/l #	91
18) Methyl Acetate	2.60	43	9683	2.979	ug/l #	54
22) Diisopropyl ether	3.84	45	6833	0.926	ug/l #	85
23) Vinyl Acetate	3.84	43	3494	0.540	ug/l #	73
25) 2-Butanone	4.69	43	500	0.253	ug/l #	51
36) 1,1-Dichloropropene	5.65	75	14065	4.816	ug/l #	53
38) Carbon Tetrachloride	5.65	117	18460	6.222	ug/l #	16
51) 4-Methyl-2-Pentanone	8.71	43	1698	0.482	ug/l #	1
65) Chlorobenzene	10.14	112	47890	8.720	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	61352	22.663	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	61352	64.948	ug/l #	8
91) 1,2-Dichlorobenzene	12.39	146	1288	0.379	ug/l	95

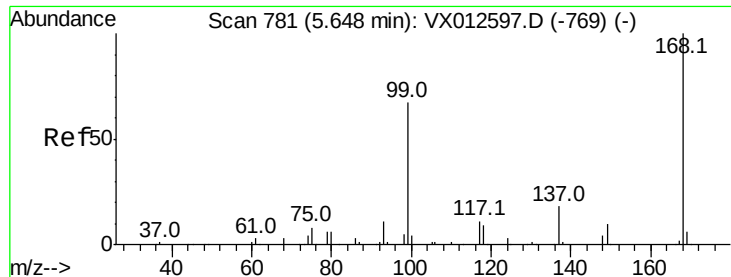
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 08 11:12:52 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
Quant Title : SW846 8260
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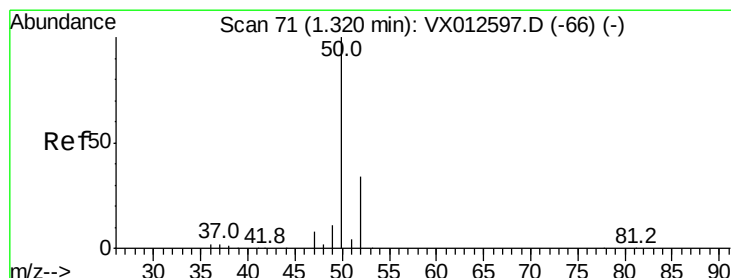
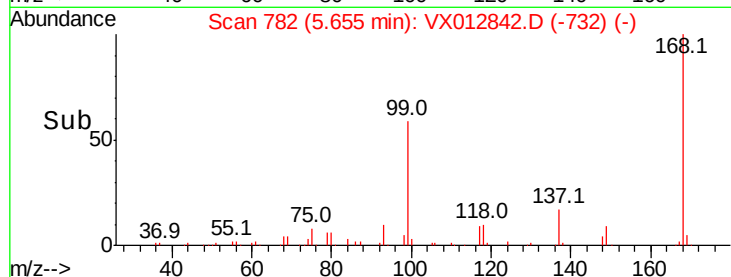
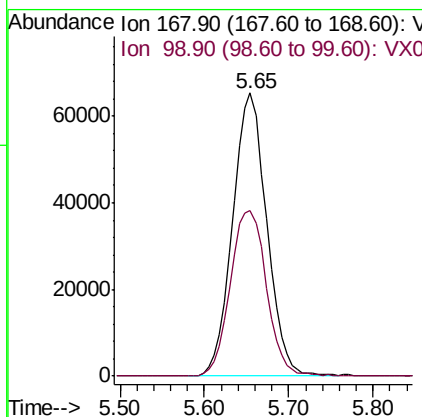
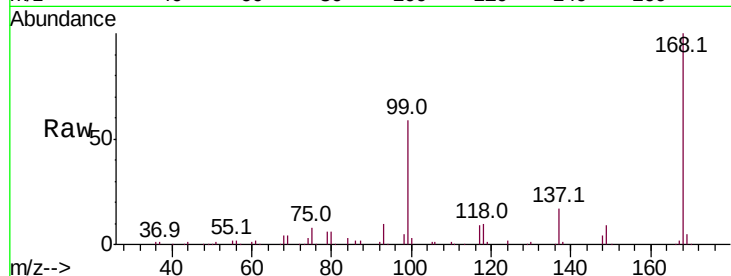




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.01 min
Lab File: VX012842.D
Acq: 07 Oct 2019 16:47

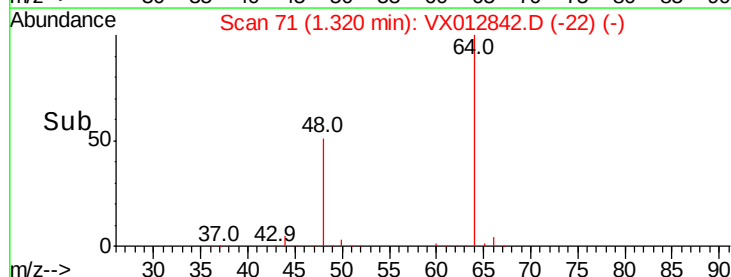
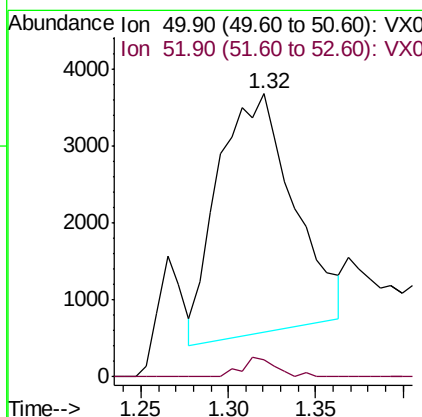
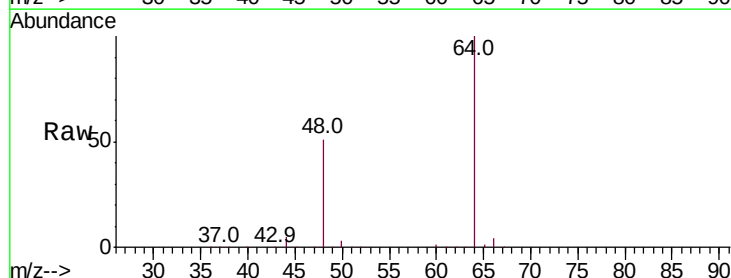
Instrument :
MSVOA_X
ClientSampleId :
MW-105S

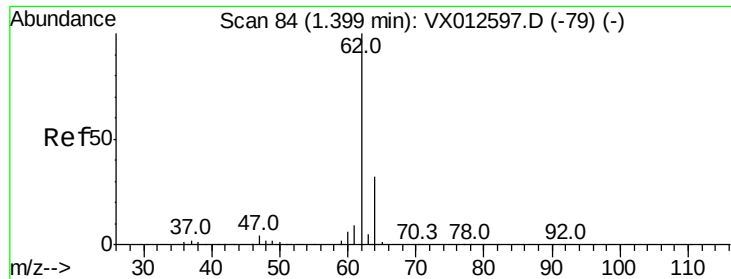
Tot Ion:168 Resp: 178950
Ion Ratio Lower Upper
168 100
99 58.7 51.4 77.2



#3
Chloromethane
Concen: 4.105 ug/l
RT: 1.32 min Scan# 71
Delta R.T. 0.00 min
Lab File: VX012842.D
Acq: 07 Oct 2019 16:47

Tgt Ion: 50 Resp: 9489
Ion Ratio Lower Upper
50 100
52 7.8 25.7 38.5#





#4

Vinyl Chloride

Concen: 0.270 ug/l

RT: 1.39 min Scan# 82

Delta R.T. -0.01 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

Instrument :

MSVOA_X

ClientSampled :

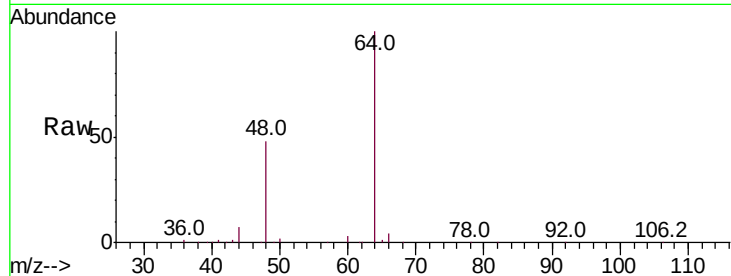
MW-105S

Tot Ion: 62 Resp: 621

Ion Ratio Lower Upper

62 100

64 1938.2 24.2 36.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

150000

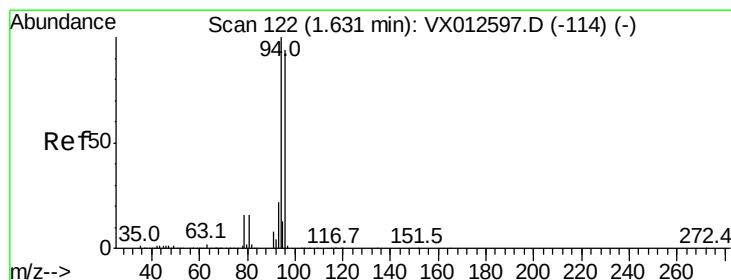
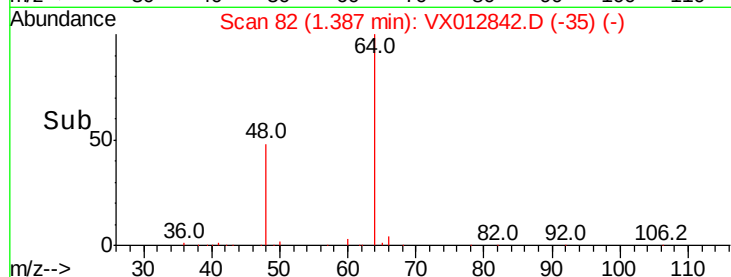
100000

50000

0

1.39

Time-->



#5

Bromomethane

Concen: 0.428 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012842.D

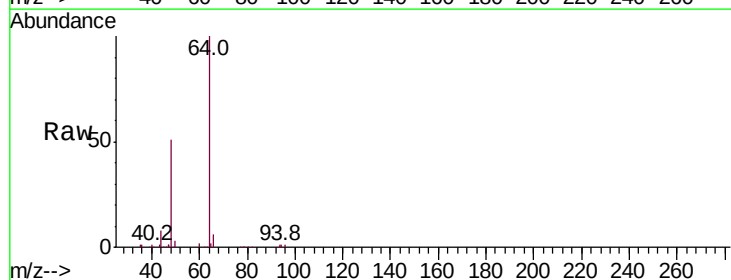
Acq: 07 Oct 2019 16:47

Tgt Ion: 94 Resp: 387

Ion Ratio Lower Upper

94 100

96 38.2 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

400

300

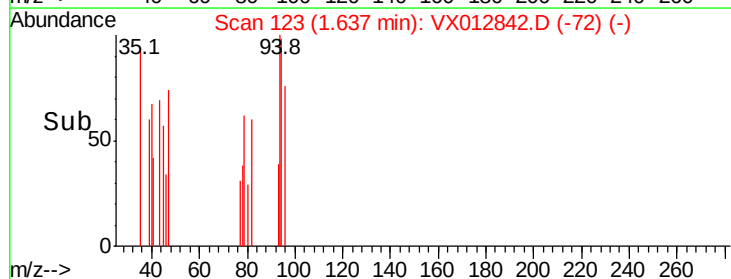
200

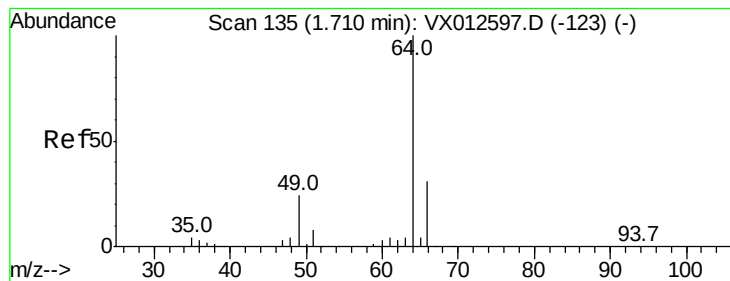
100

0

1.64

Time-->





#6

Chloroethane

Concen: 1.186 ug/l

RT: 1.91 min Scan# 168

Delta R.T. 0.20 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

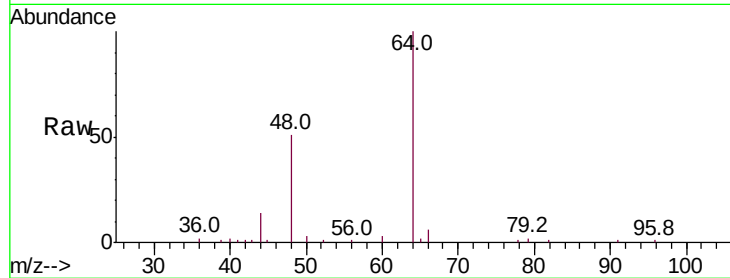
MW-105S

Tot Ion: 64 Resp: 1837

Ion Ratio Lower Upper

64 100

66 8.4 24.0 36.0#

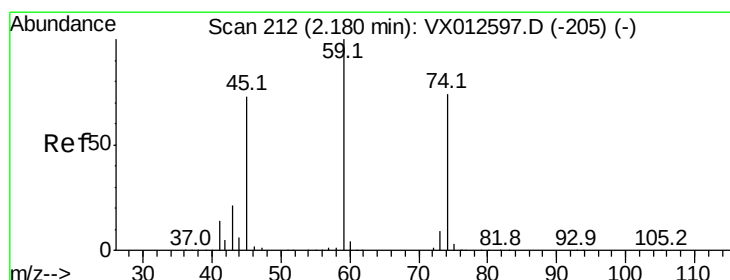
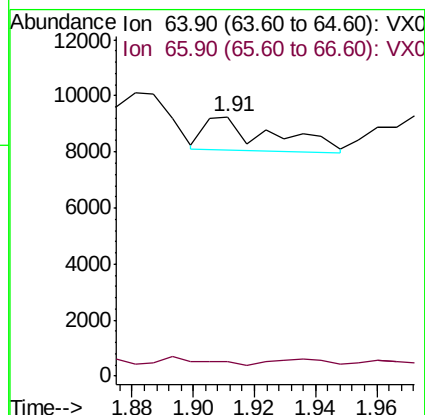
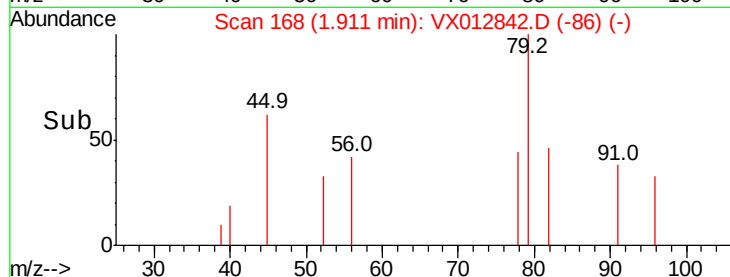


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.91

Time-->



#8

Diethyl Ether

Concen: 0.464 ug/l

RT: 2.18 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX012842.D

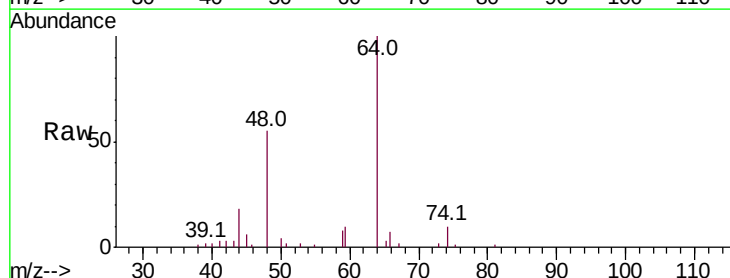
Acq: 07 Oct 2019 16:47

Tgt Ion: 74 Resp: 613

Ion Ratio Lower Upper

74 100

45 104.7 49.9 149.7

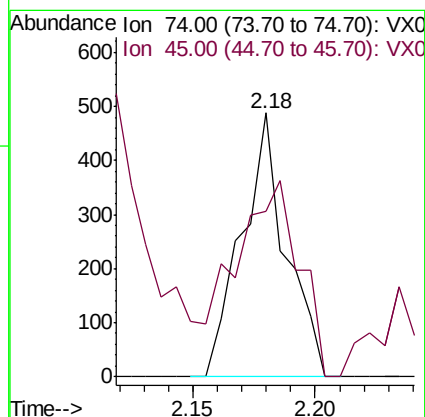
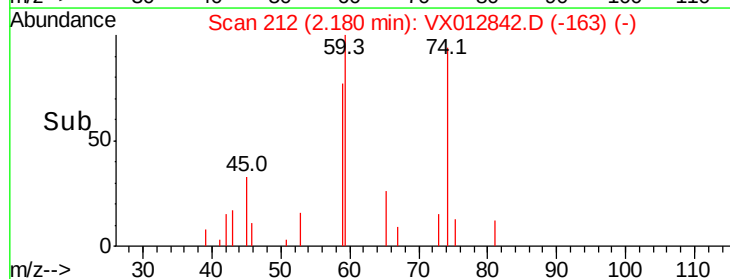


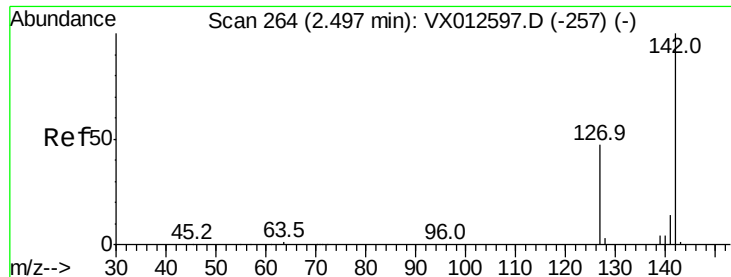
Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.18

Time-->

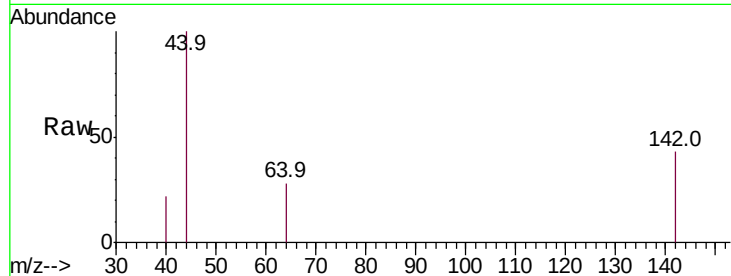




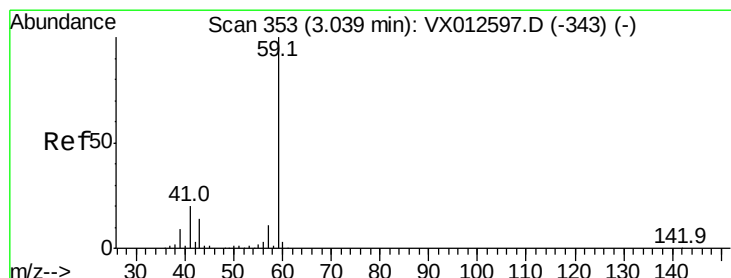
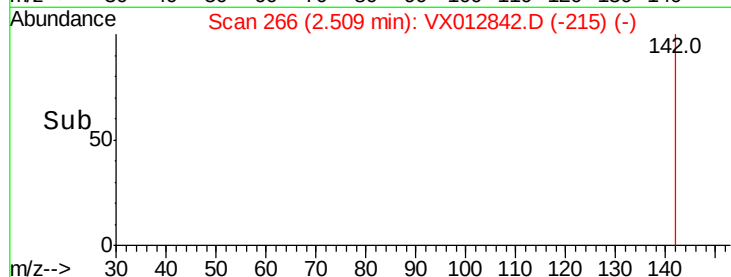
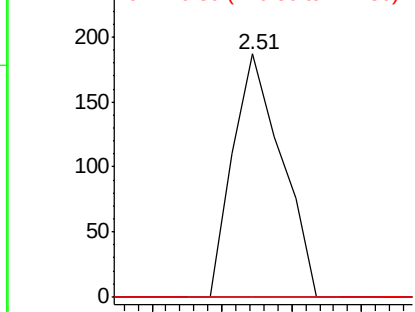
#10
Methvl Iodide
Concen: 5.032 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX012842.D
Acq: 07 Oct 2019 16:47

Instrument :
MSVOA_X
ClientSampleId :
MW-105S

Tot Ion:142 Resp: 181
Ion Ratio Lower Upper
142 100
127 0.0 40.8 61.2#
141 0.0 12.1 18.1#

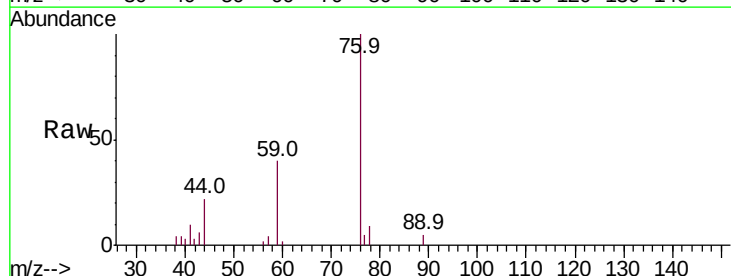


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

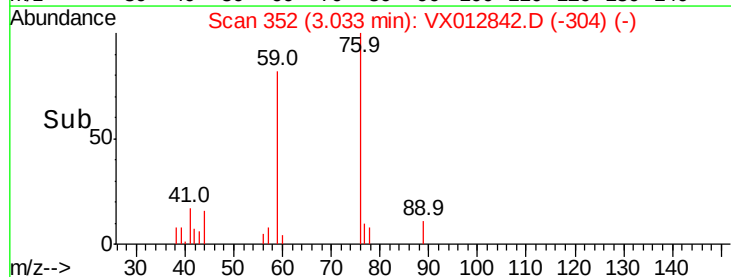
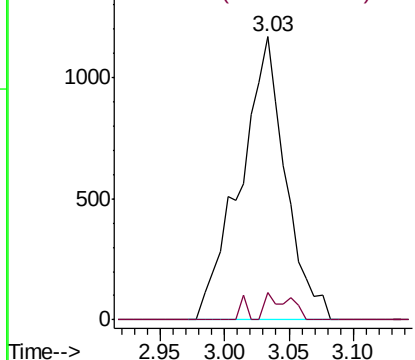


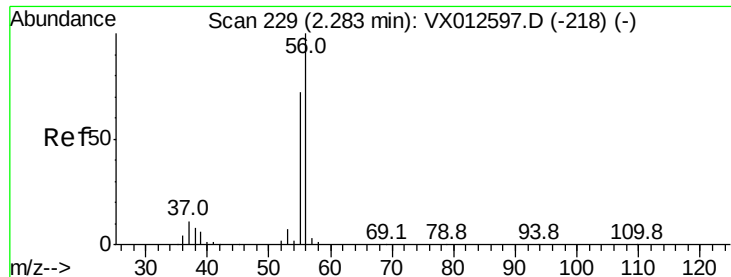
#11
Tert butyl alcohol
Concen: 4.369 ug/l
RT: 3.03 min Scan# 352
Delta R.T. -0.01 min
Lab File: VX012842.D
Acq: 07 Oct 2019 16:47

Tgt Ion: 59 Resp: 2844
Ion Ratio Lower Upper
59 100
57 5.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 10.286 ug/l

RT: 2.26 min Scan# 226

Delta R.T. -0.02 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

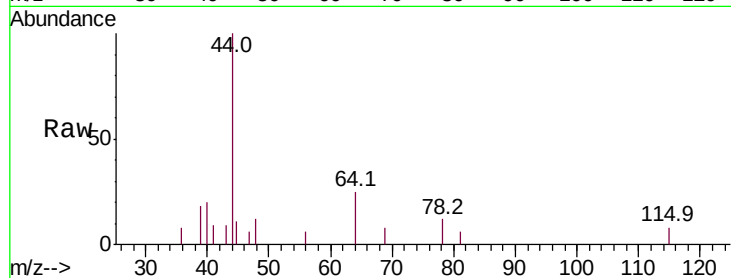
MW-105S

Tot Ion: 56 Resp: 20

Ion Ratio Lower Upper

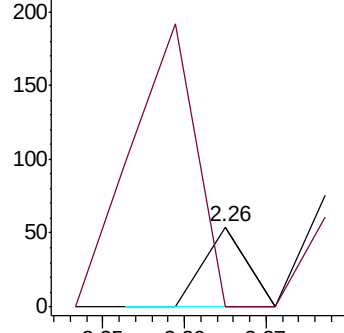
56 100

55 530.0 55.8 83.8#

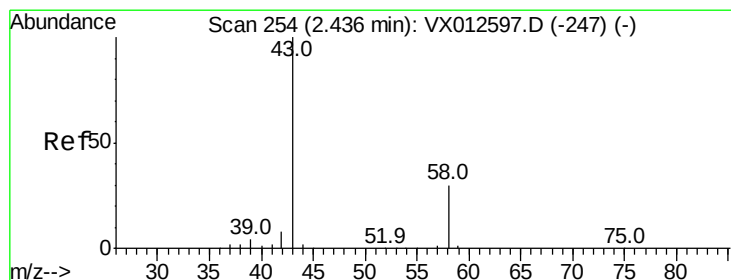
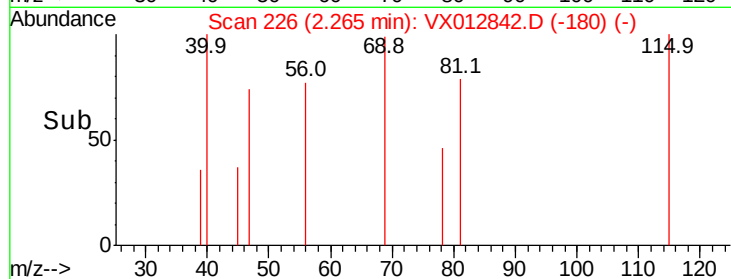


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 5.486 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012842.D

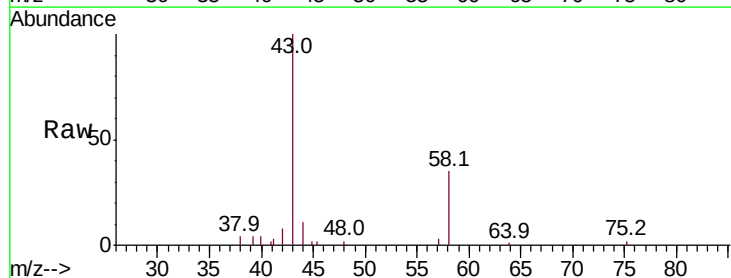
Acq: 07 Oct 2019 16:47

Tgt Ion: 43 Resp: 7572

Ion Ratio Lower Upper

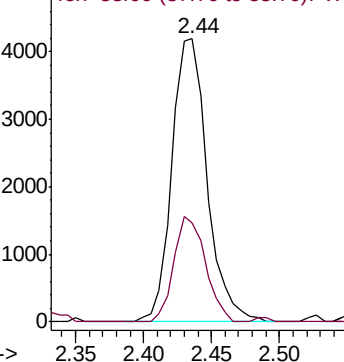
43 100

58 35.0 23.3 34.9#

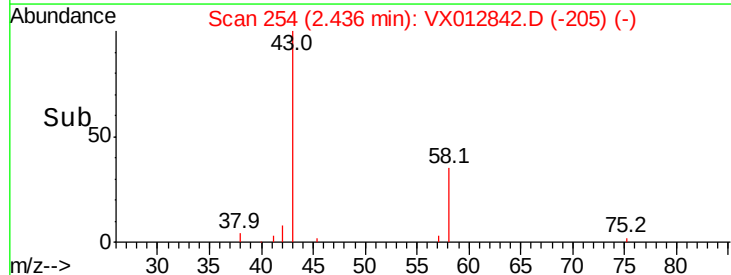


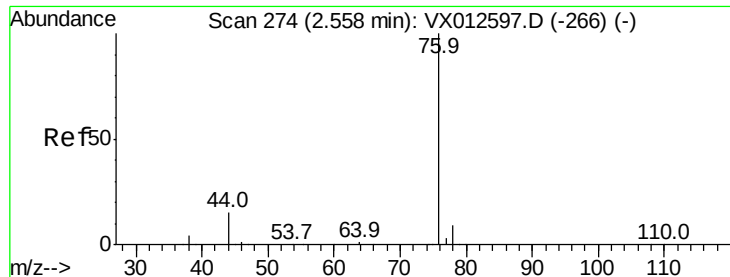
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 0.707 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

Instrument :

MSVOA_X

ClientSampled :

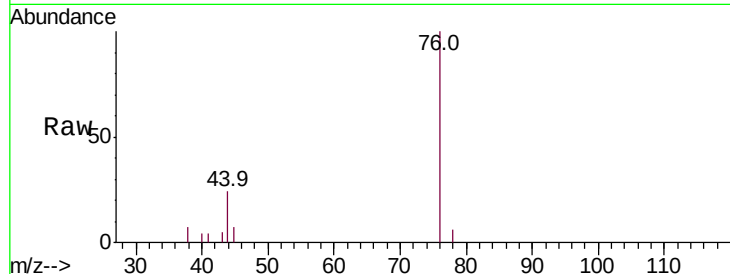
MW-105S

Tot Ion: 76 Resp: 3815

Ion Ratio Lower Upper

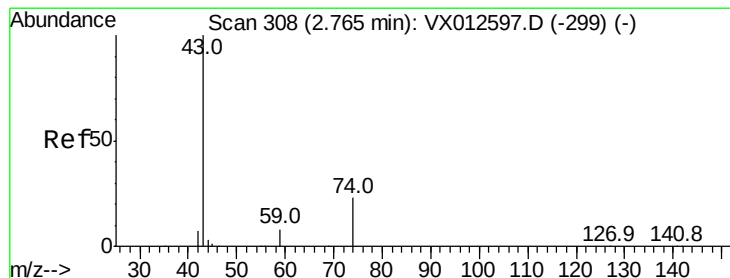
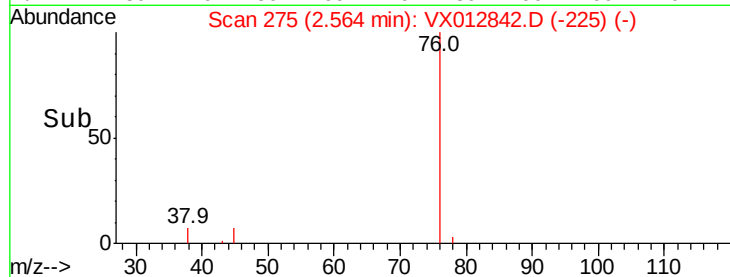
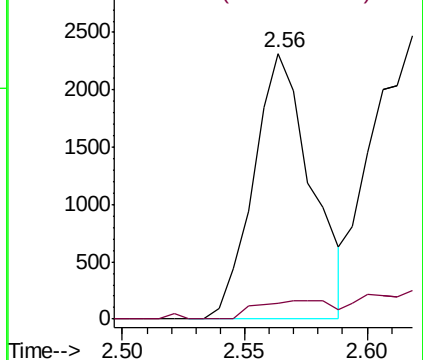
76 100

78 5.9 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 2.979 ug/l

RT: 2.60 min Scan# 281

Delta R.T. -0.16 min

Lab File: VX012842.D

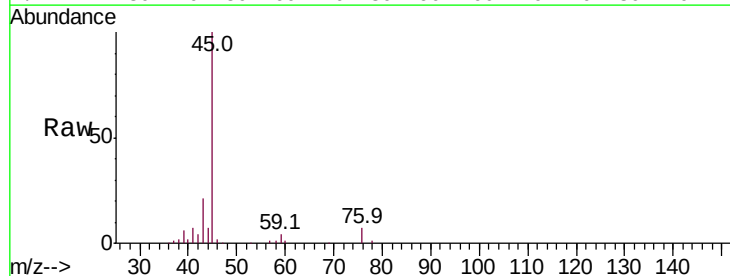
Acq: 07 Oct 2019 16:47

Tgt Ion: 43 Resp: 9683

Ion Ratio Lower Upper

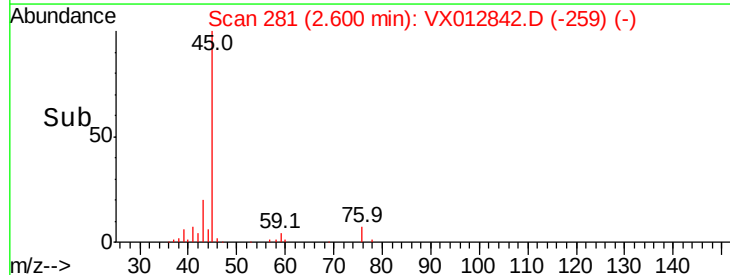
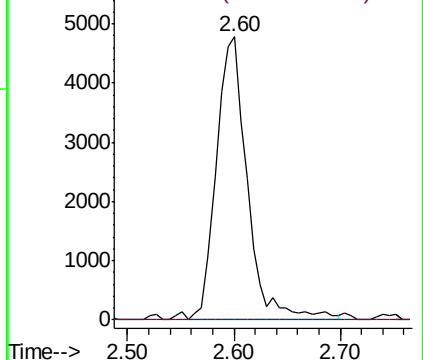
43 100

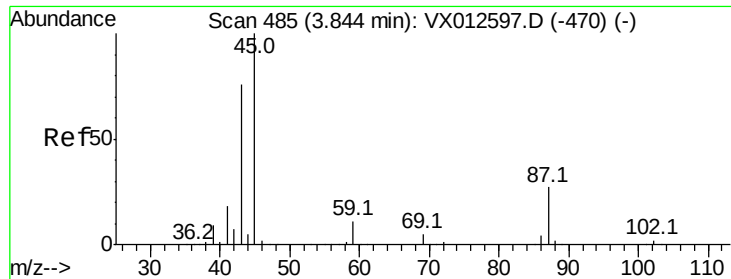
74 0.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#22

Diisopropyl ether

Concen: 0.926 ug/l

RT: 3.84 min Scan# 485

Delta R.T. 0.00 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

MW-105S

Tot Ion: 45 Resp: 6833

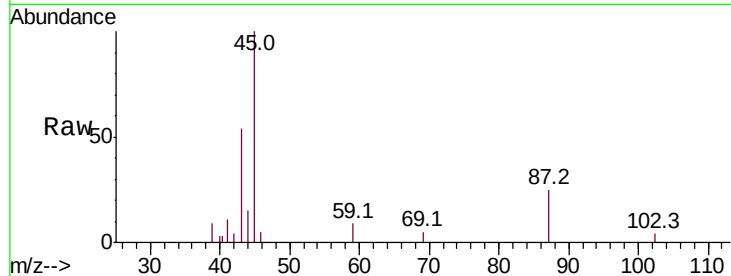
Ion Ratio Lower Upper

45 100

43 54.2 57.8 86.8#

87 24.9 21.3 31.9

59 9.4 8.5 12.7

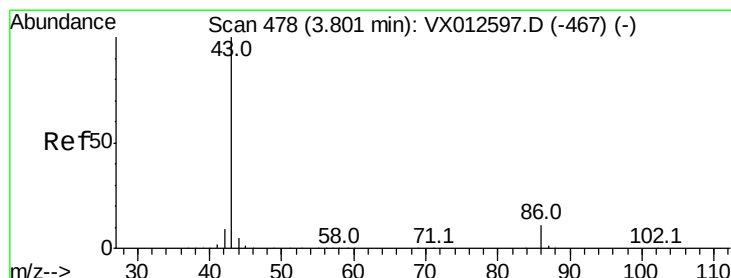
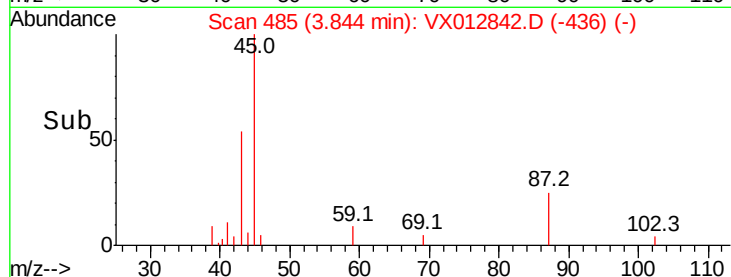
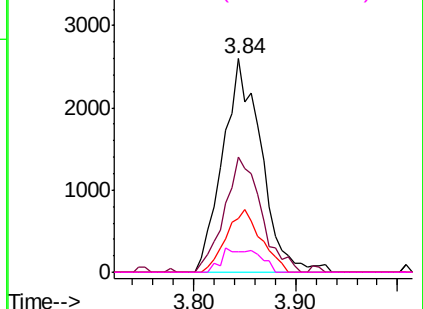


Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0



#23

Vinyl Acetate

Concen: 0.540 ug/l

RT: 3.84 min Scan# 485

Delta R.T. 0.04 min

Lab File: VX012842.D

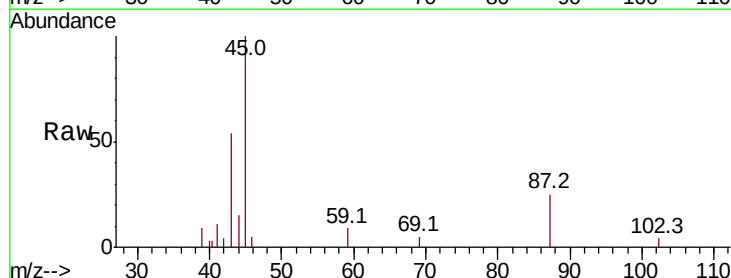
Acq: 07 Oct 2019 16:47

Tgt Ion: 43 Resp: 3494

Ion Ratio Lower Upper

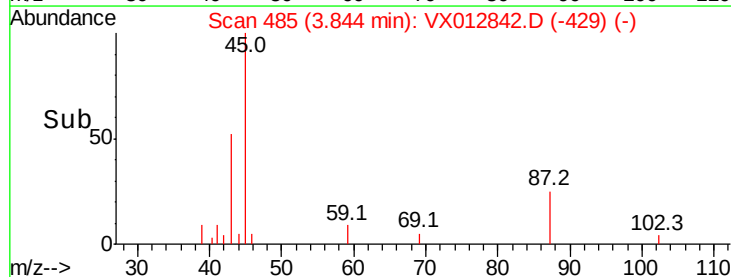
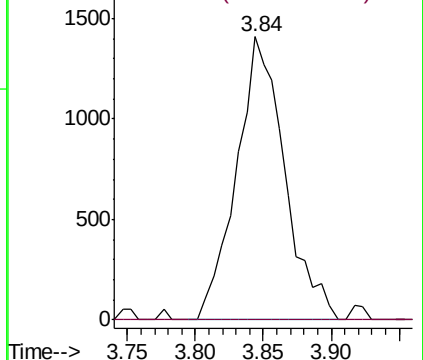
43 100

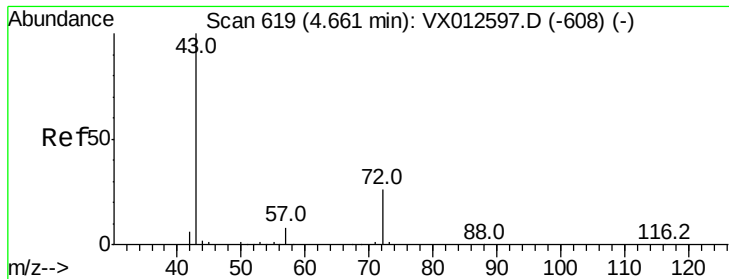
86 0.0 7.8 11.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0





#25

2-Butanone

Concen: 0.253 ug/l

RT: 4.69 min Scan# 624

Delta R.T. 0.03 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

Instrument :

MSVOA_X

ClientSampled :

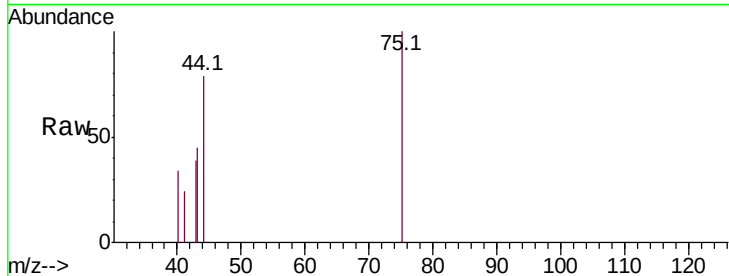
MW-105S

Tot Ion: 43 Resp: 500

Ion Ratio Lower Upper

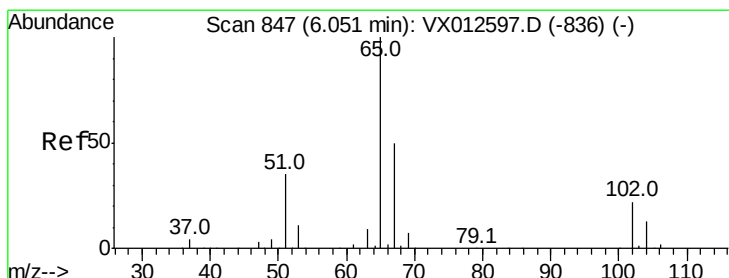
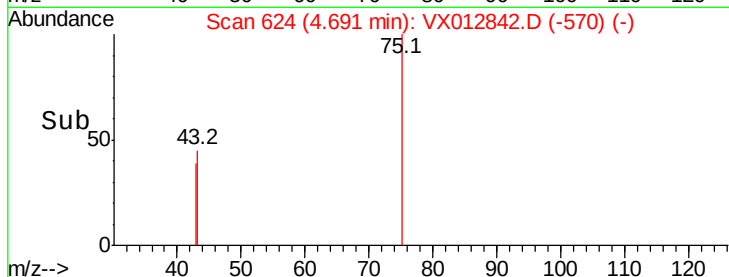
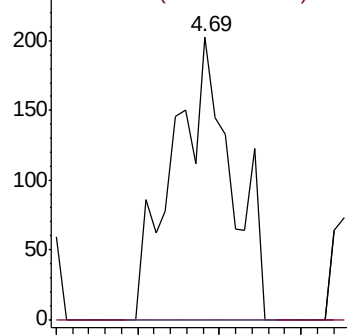
43 100

72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.493 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012842.D

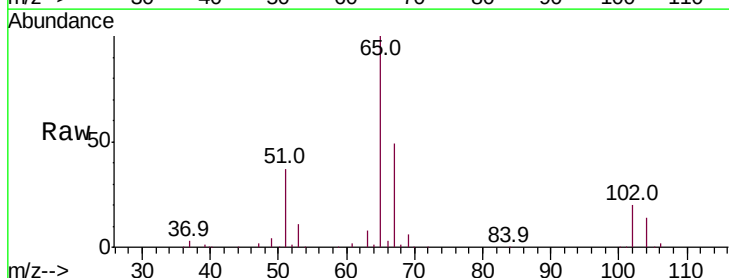
Acq: 07 Oct 2019 16:47

Tgt Ion: 65 Resp: 118548

Ion Ratio Lower Upper

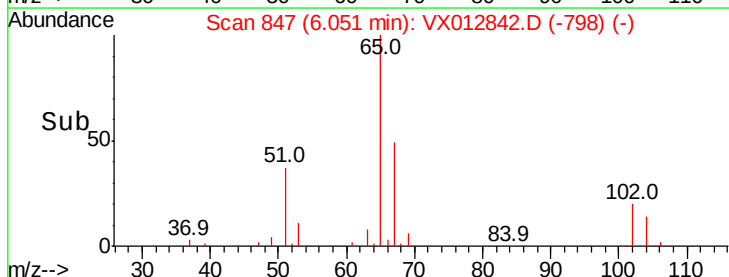
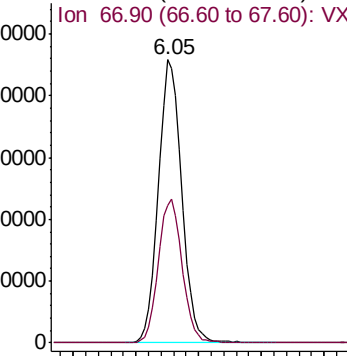
65 100

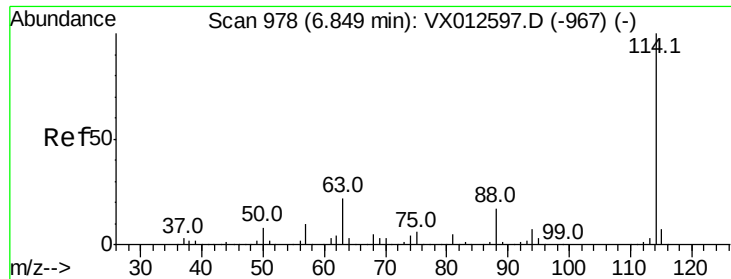
67 51.7 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

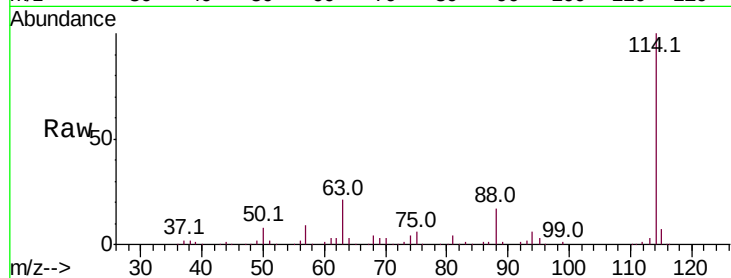




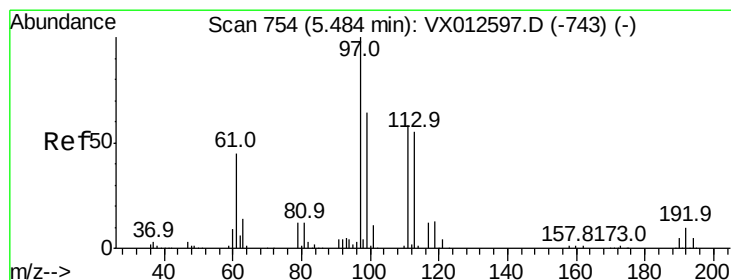
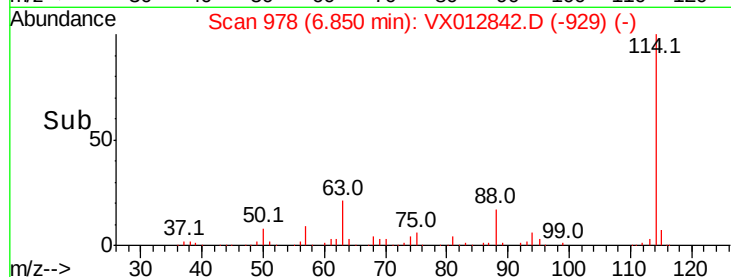
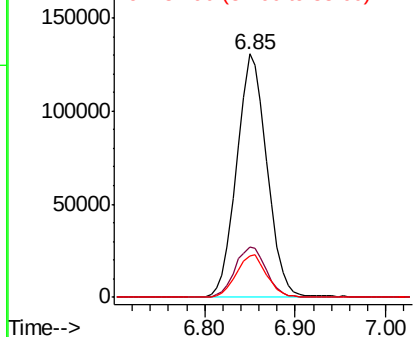
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012842.D
 Acq: 07 Oct 2019 16:47

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-105S

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	43.2
88	17.2	0.0	33.2

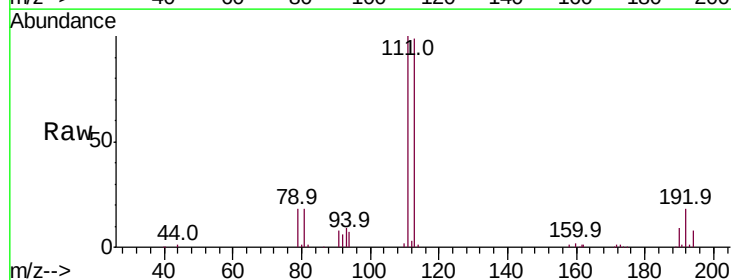


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

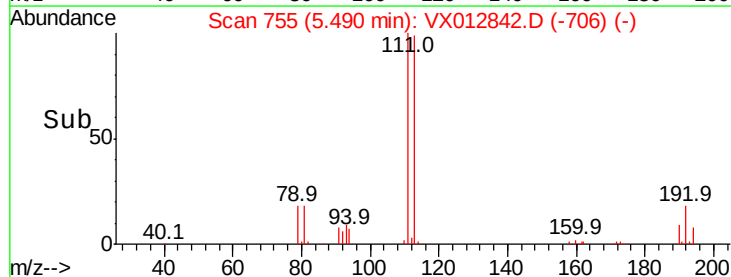
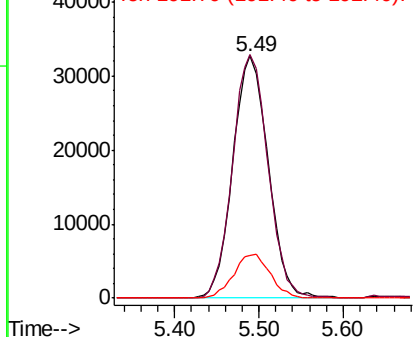


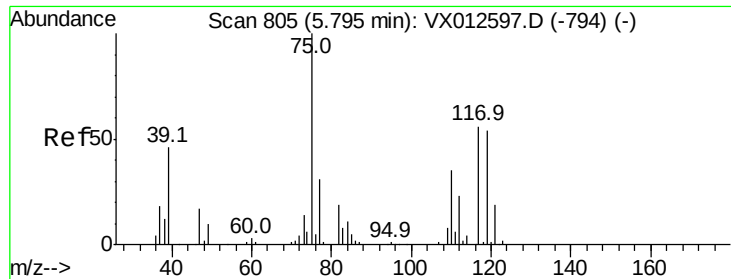
#35
 Dibromofluoromethane
 Concen: 51.534 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012842.D
 Acq: 07 Oct 2019 16:47

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.8	83.4	125.2
192	18.8	14.4	21.6



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

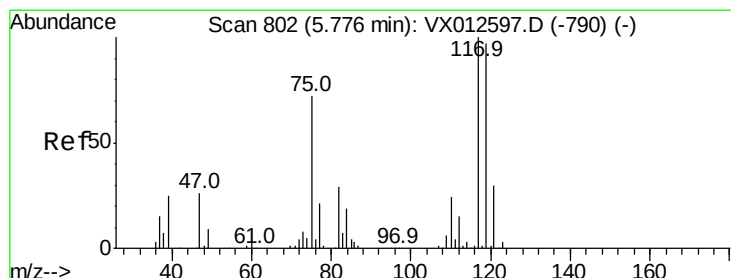
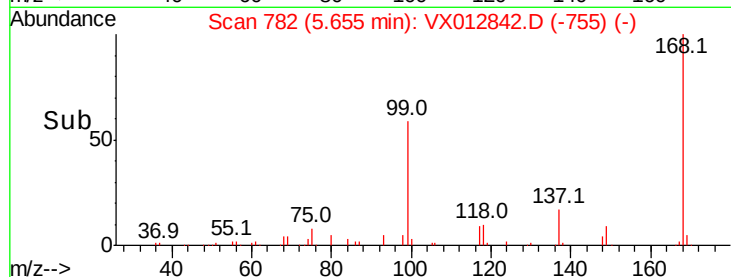
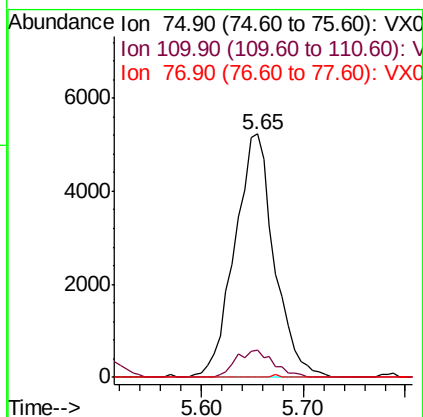
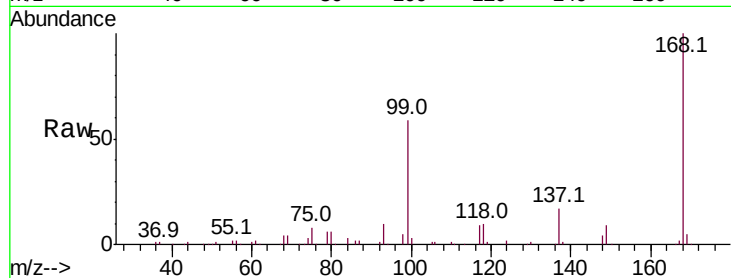




#36
 1,1-Dichloropropene
 Concen: 4.816 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012842.D
 Acq: 07 Oct 2019 16:47

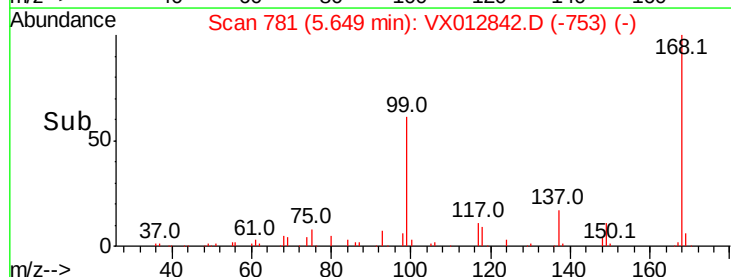
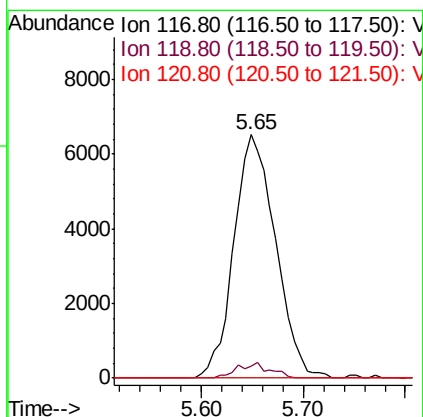
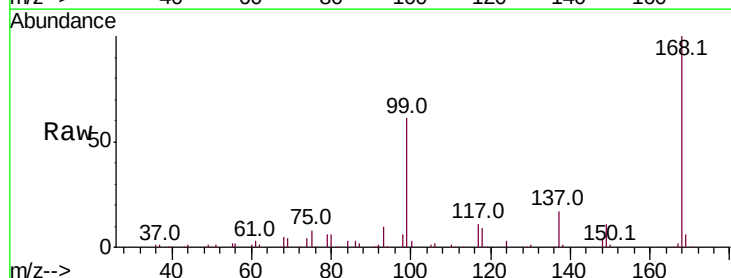
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-105S

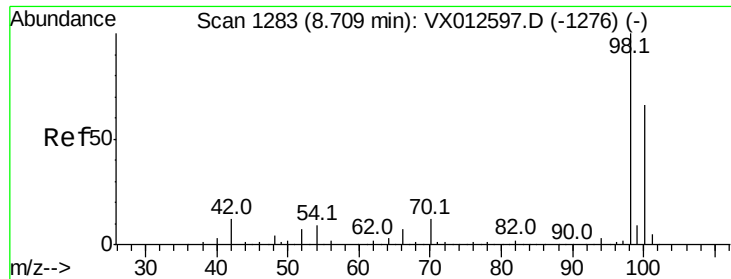
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.6	16.7	50.0#
77	0.1	24.2	36.2#



#38
 Carbon Tetrachloride
 Concen: 6.222 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX012842.D
 Acq: 07 Oct 2019 16:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	75.7	113.5#
121	0.0	24.2	36.4#





#50

Toluene-d8

Concen: 51.605 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

Instrument :

MSVOA_X

ClientSampled :

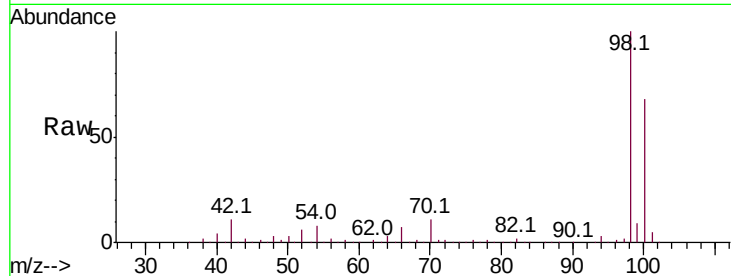
MW-105S

Tot Ion: 98 Resp: 358627

Ion Ratio Lower Upper

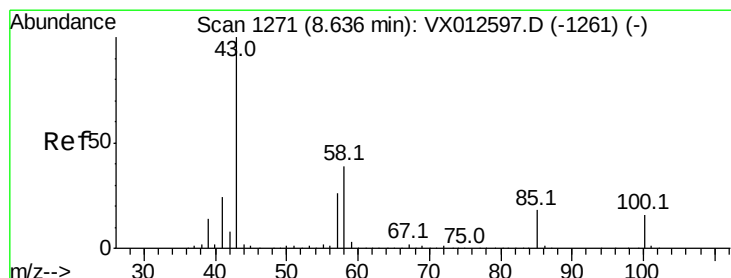
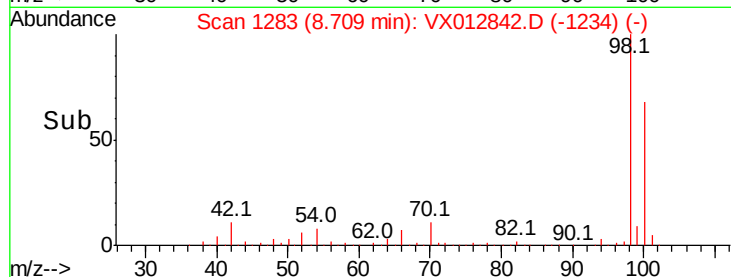
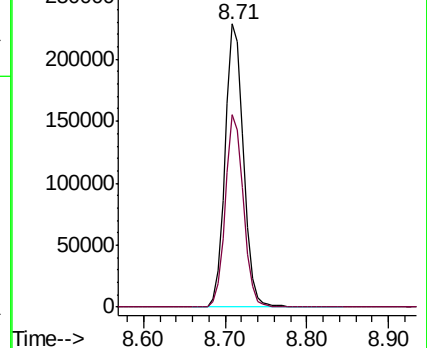
98 100

100 67.0 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.482 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012842.D

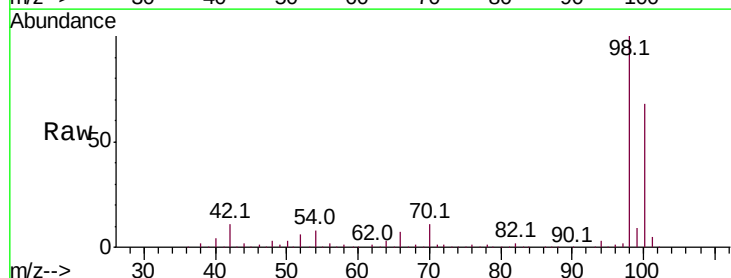
Acq: 07 Oct 2019 16:47

Tgt Ion: 43 Resp: 1698

Ion Ratio Lower Upper

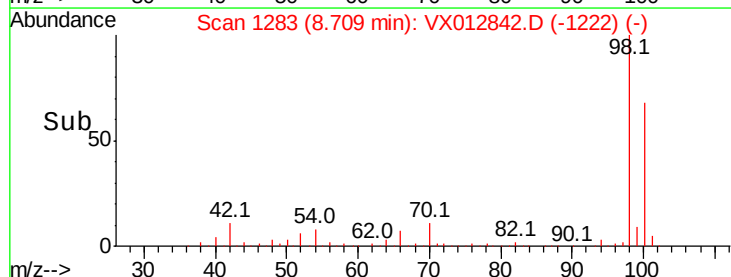
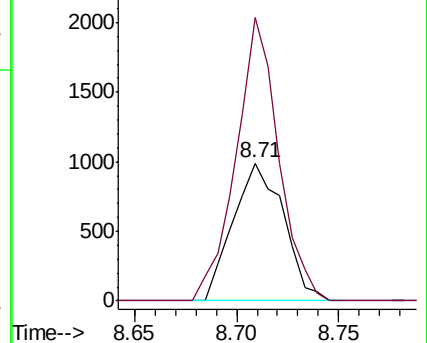
43 100

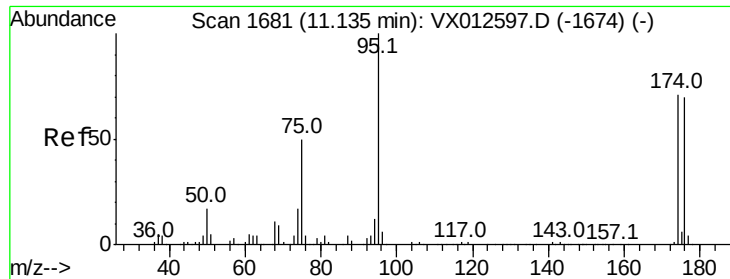
58 173.6 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.930 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

MW-105S

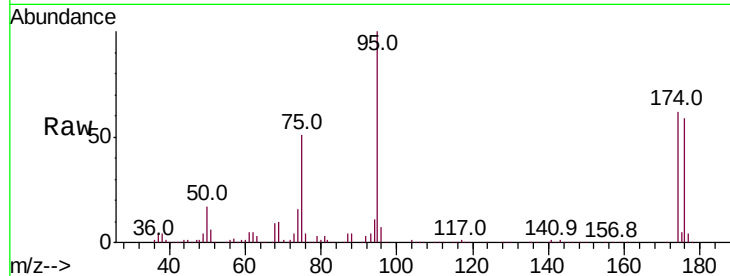
Tot Ion: 95 Resp: 125507

Ion Ratio Lower Upper

95 100

174 70.5 0.0 140.0

176 68.5 0.0 135.4



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

120000

100000

80000

60000

40000

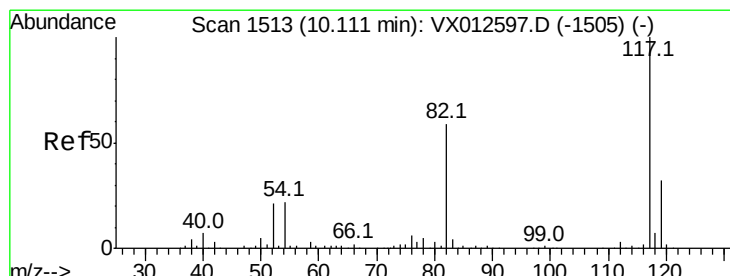
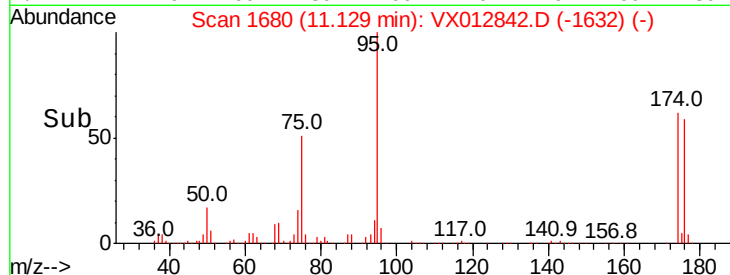
20000

0

11.13

11.10 11.12 11.14

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

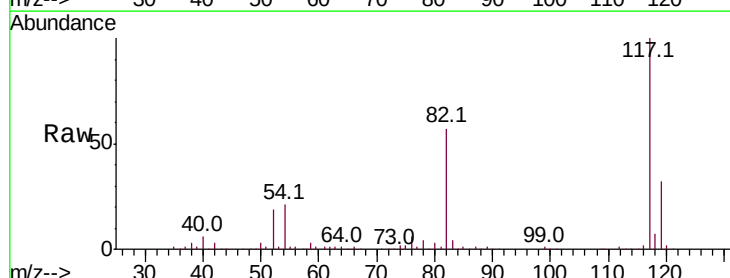
Tgt Ion: 117 Resp: 260802

Ion Ratio Lower Upper

117 100

82 56.6 45.9 68.9

119 32.3 25.3 37.9



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

250000

200000

150000

100000

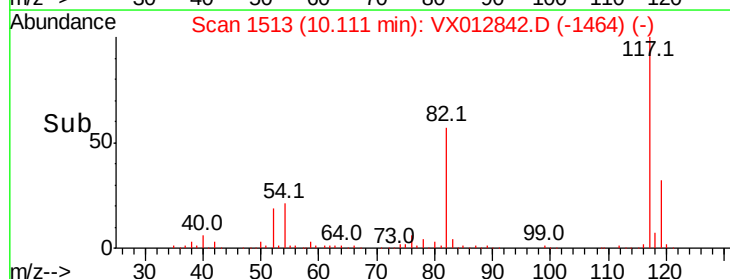
50000

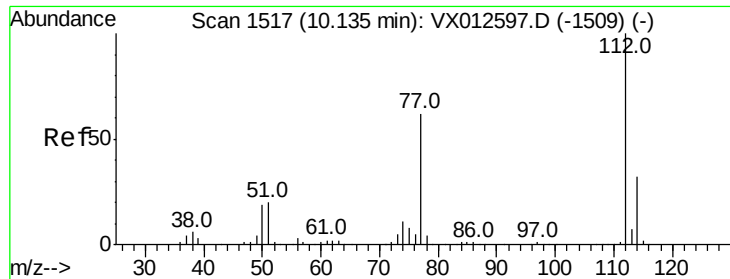
0

10.11

10.10 10.12 10.14

Time-->





#65

Chlorobenzene

Concen: 8.720 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. 0.00 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

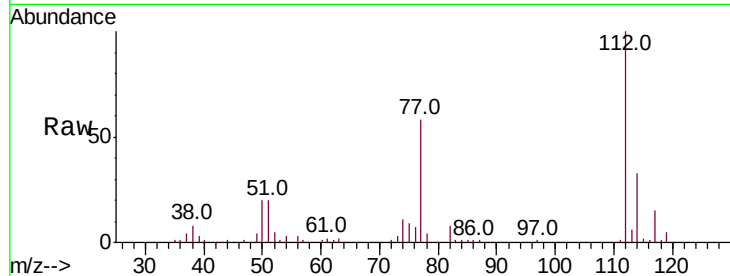
MW-105S

Tot Ion:112 Resp: 47890

Ion Ratio Lower Upper

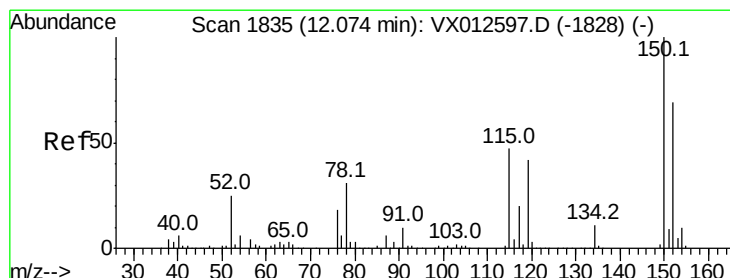
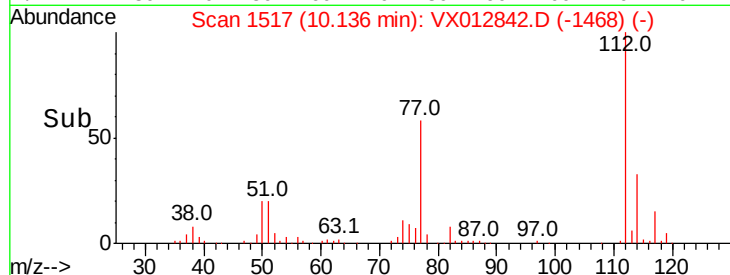
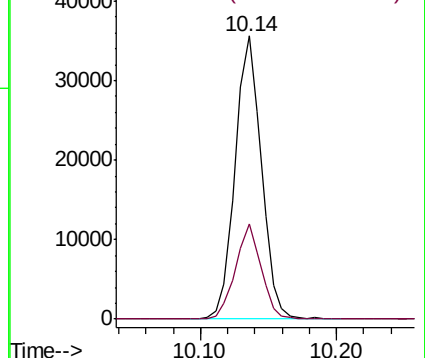
112 100

114 33.4 25.4 38.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

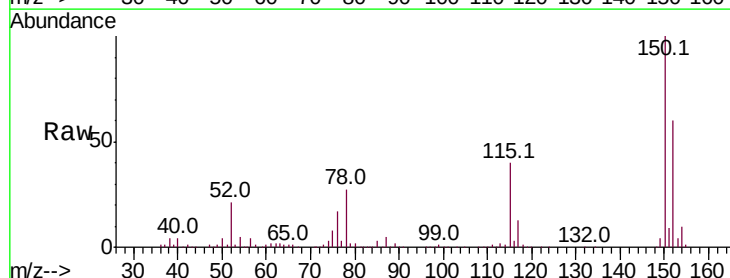
Tgt Ion:152 Resp: 102339

Ion Ratio Lower Upper

152 100

115 65.1 44.1 132.3

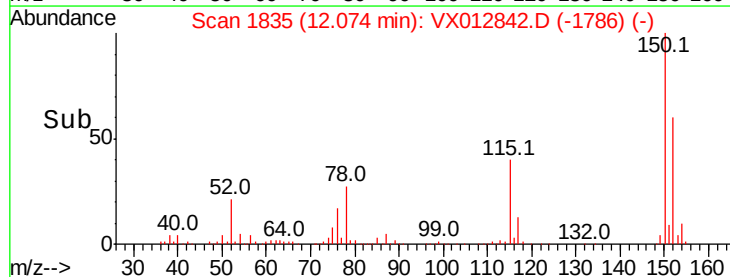
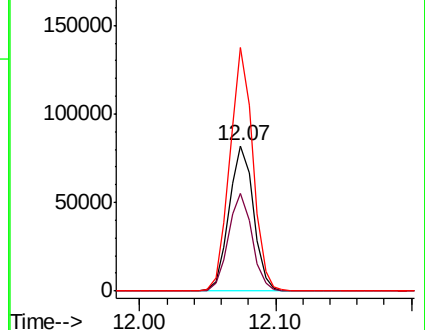
150 158.6 0.0 343.8

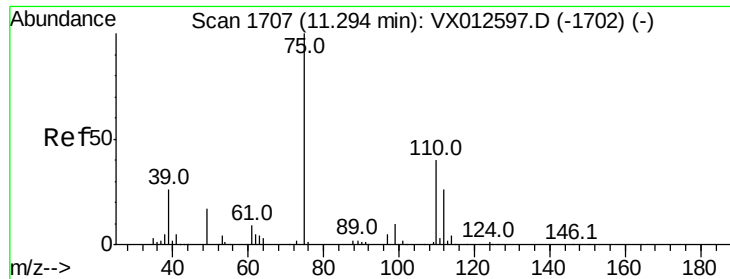


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.663 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

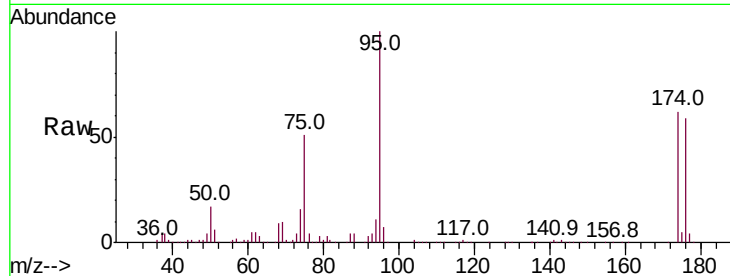
MW-105S

Tot Ion: 75 Resp: 61352

Ion Ratio Lower Upper

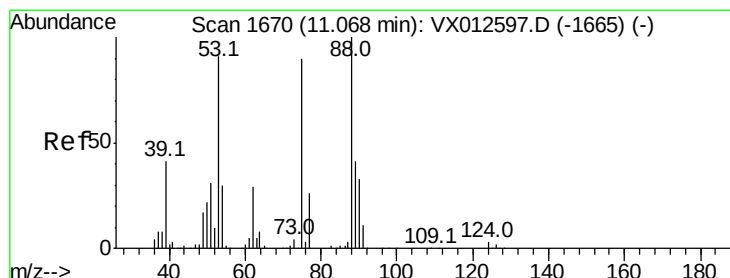
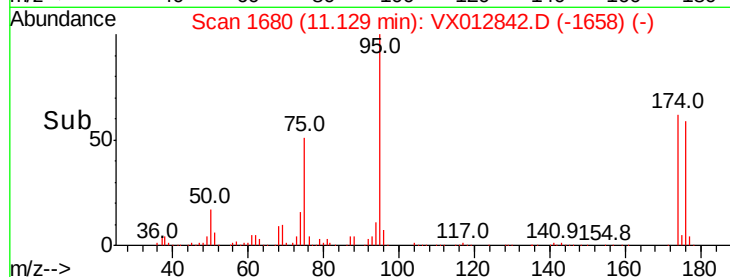
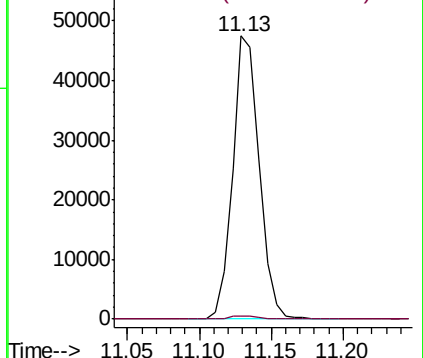
75 100

77 1.1 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 64.948 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

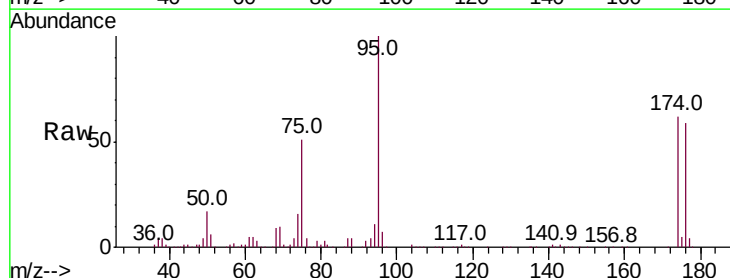
Tgt Ion: 75 Resp: 61352

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

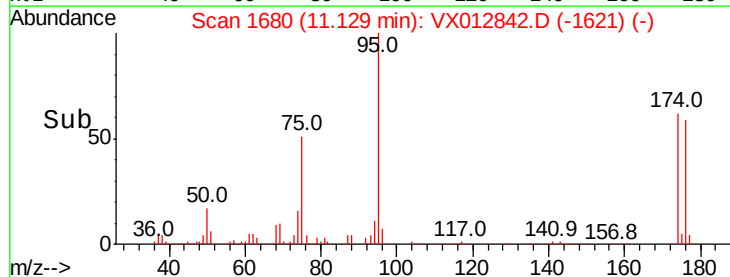
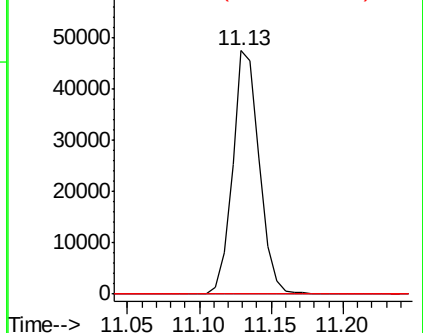
89 0.0 36.3 54.5#

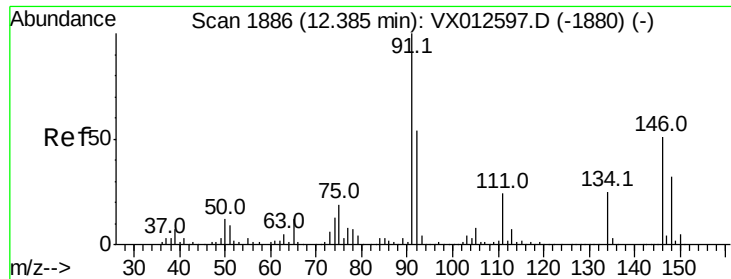


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#91

1,2-Dichlorobenzene

Concen: 0.379 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX012842.D

Acq: 07 Oct 2019 16:47

Instrument :

MSVOA_X

ClientSampleId :

MW-105S

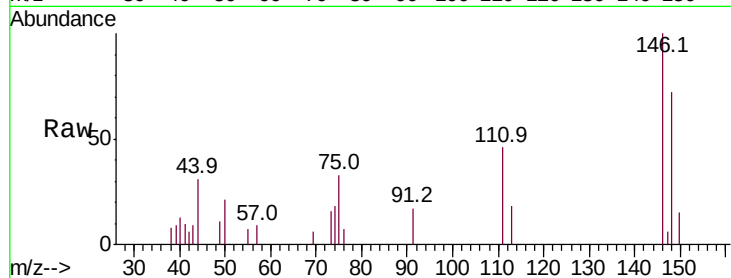
Tot Ion:146 Resp: 1288

Ion Ratio Lower Upper

146 100

111 49.2 22.1 66.1

148 64.5 31.3 93.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

