

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX092619\
 Data File : VX012685.D
 Acq On : 26 Sep 2019 19:34
 Operator : JC/SP
 Sample : K5049-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-7

Quant Time: Sep 26 23:37:03 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	163161	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	286164	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	243232	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	94942	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	119230	50.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.36%	
35) Dibromofluoromethane	5.49	113	84547	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
50) Toluene-d8	8.71	98	337424	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
62) 4-Bromofluorobenzene	11.14	95	117298	45.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.90%	

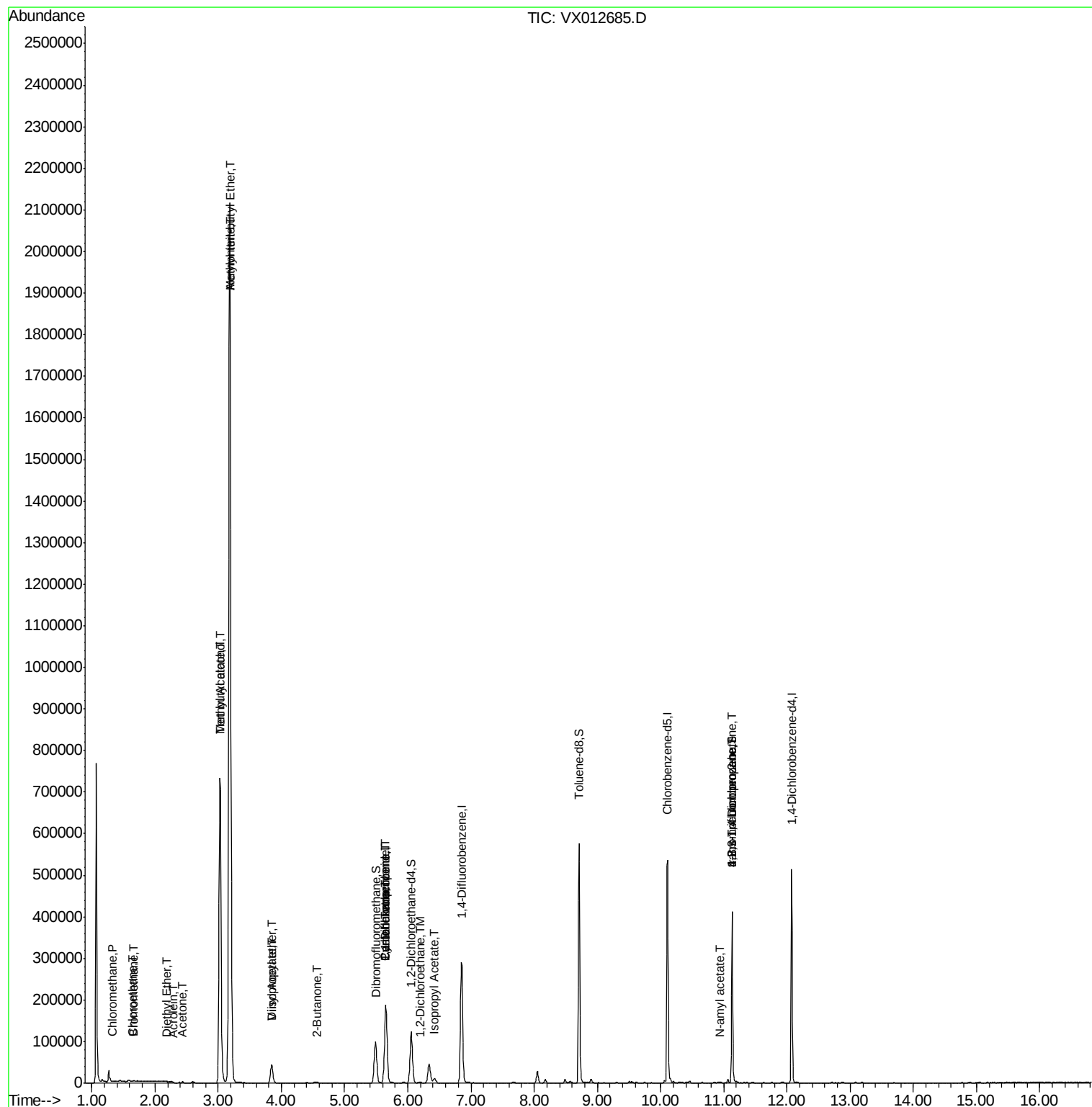
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	584	0.277	ug/l	91
5) Bromomethane	1.65	94	382	0.464	ug/l #	51
6) Chloroethane	1.64	64	3413	2.417	ug/l #	67
8) Diethyl Ether	2.19	74	268	0.222	ug/l #	1
11) Tert butyl alcohol	3.03	59	896142	1509.863	ug/l	100
13) Acrolein	2.29	56	40	10.349	ug/l #	15
15) Acrylonitrile	3.18	53	23347	19.389	ug/l #	28
16) Acetone	2.44	43	2342	1.861	ug/l	99
18) Methyl Acetate	3.03	43	104082	35.123	ug/l #	54
19) Methyl tert-butyl Ether	3.19	73	2403412	361.955	ug/l	98
22) Diisopropyl ether	3.84	45	46578	6.926	ug/l #	80
23) Vinyl Acetate	3.84	43	23660	4.012	ug/l #	73
25) 2-Butanone	4.56	43	1702	0.943	ug/l #	51
31) Cyclohexane	5.65	56	4160	1.258	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14071	5.101	ug/l #	48
38) Carbon Tetrachloride	5.65	117	18420	6.574	ug/l #	17
42) 1,2-Dichloroethane	6.20	62	2898	0.940	ug/l	91
43) Isopropyl Acetate	6.42	43	4004	0.742	ug/l #	18
74) N-amyl acetate	10.93	43	1290	0.350	ug/l #	44
76) 1,2,3-Trichloropropane	11.14	75	61836	24.622	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	61836	70.560	ug/l #	8

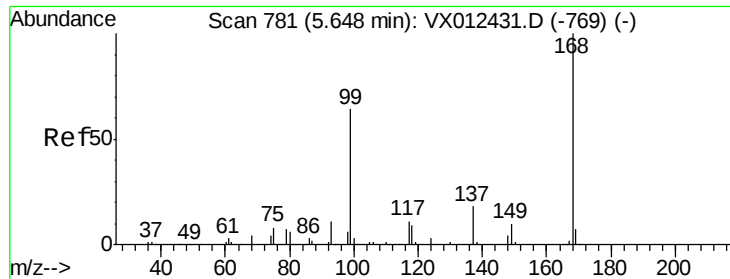
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012685.D

Acq: 26 Sep 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

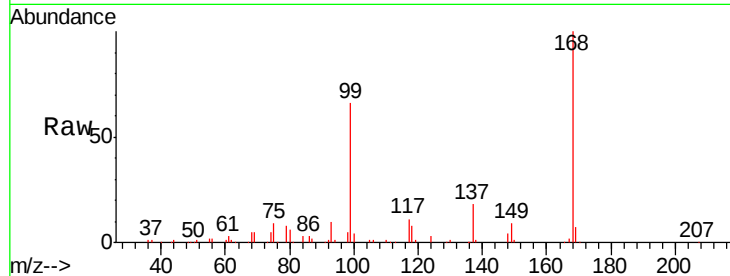
MW-7

Tgt Ion:168 Resp: 163161

Ion Ratio Lower Upper

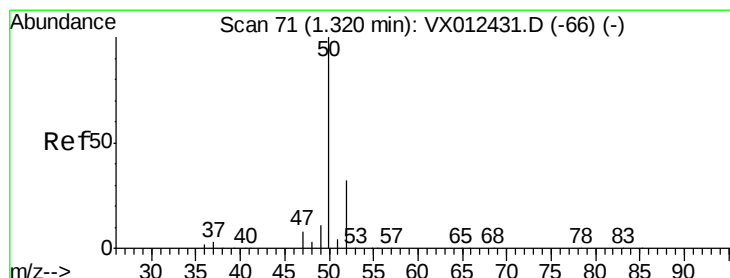
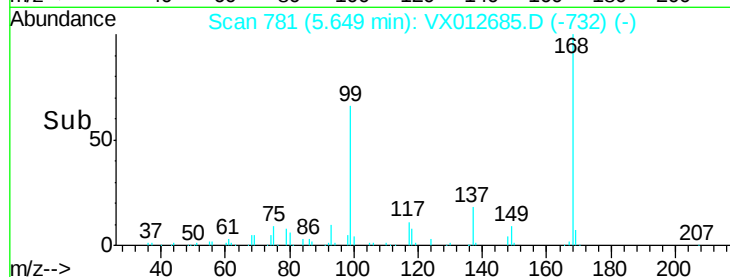
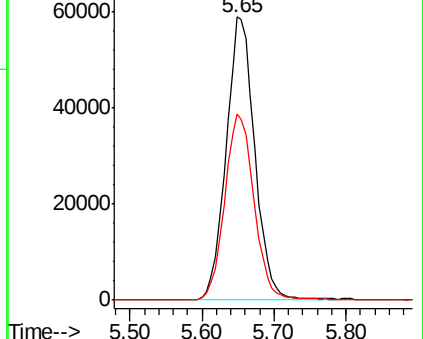
168 100

99 65.4 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.277 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX012685.D

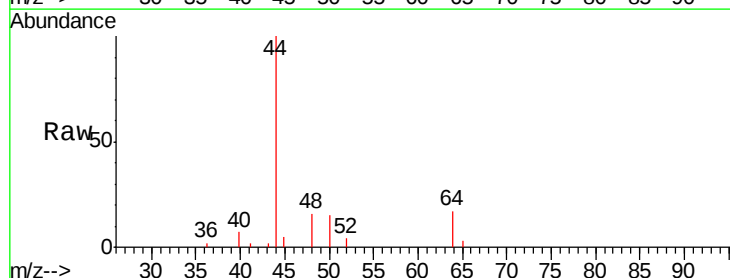
Acq: 26 Sep 2019 19:34

Tgt Ion: 50 Resp: 584

Ion Ratio Lower Upper

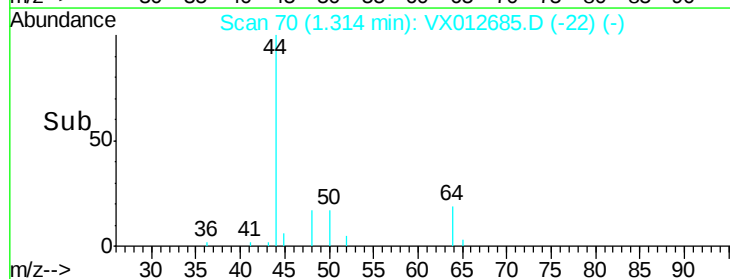
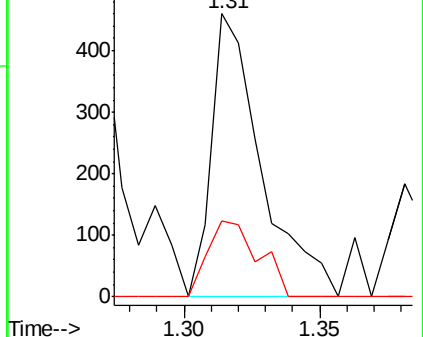
50 100

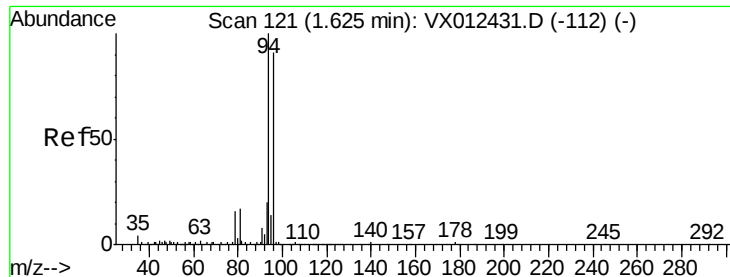
52 27.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.464 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012685.D

Acq: 26 Sep 2019 19:34

Instrument :

MSVOA_X

ClientSampled :

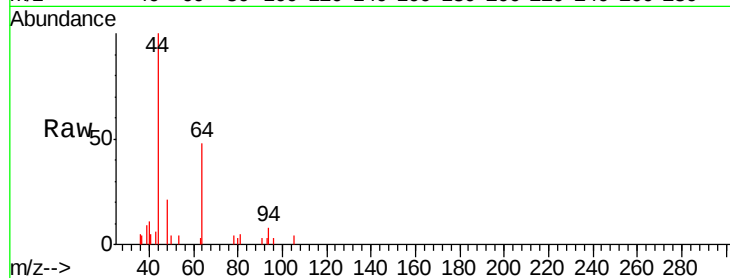
MW-7

Tgt Ion: 94 Resp: 382

Ion Ratio Lower Upper

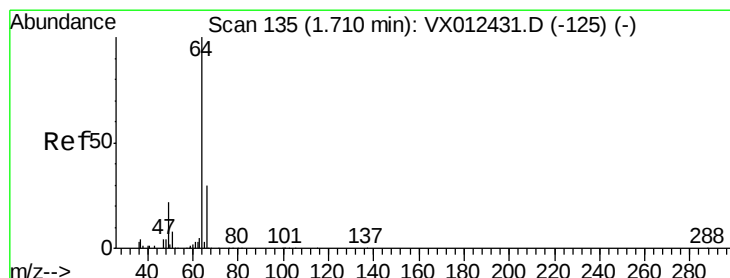
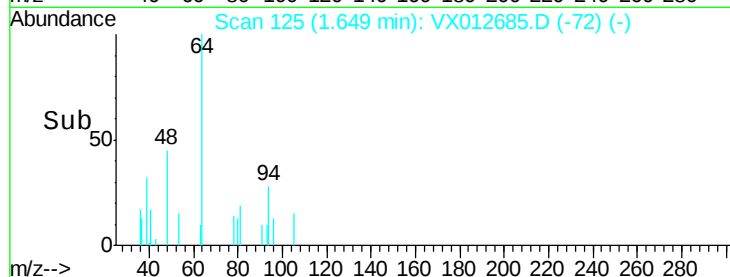
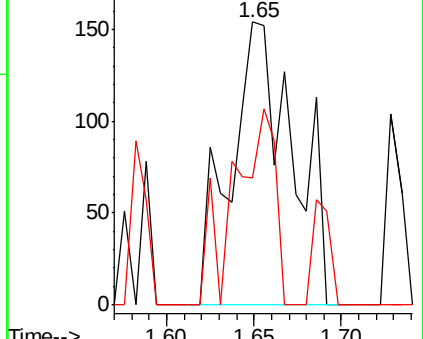
94 100

96 44.8 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 2.417 ug/l

RT: 1.64 min Scan# 123

Delta R.T. -0.07 min

Lab File: VX012685.D

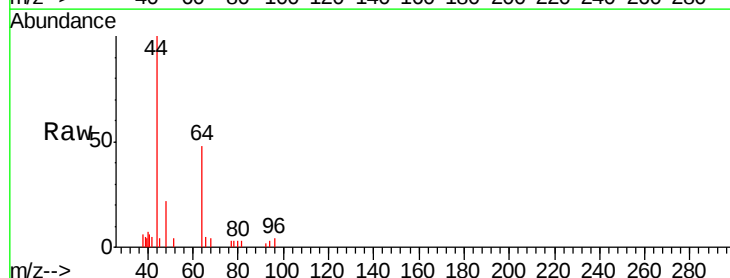
Acq: 26 Sep 2019 19:34

Tgt Ion: 64 Resp: 3413

Ion Ratio Lower Upper

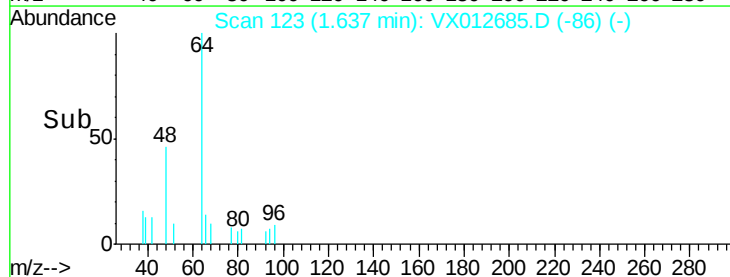
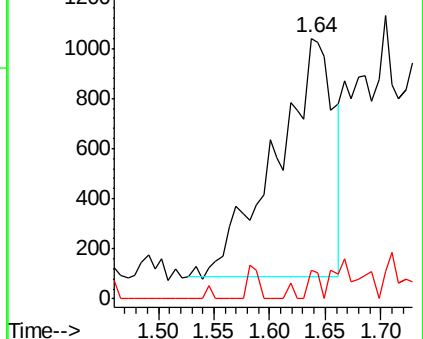
64 100

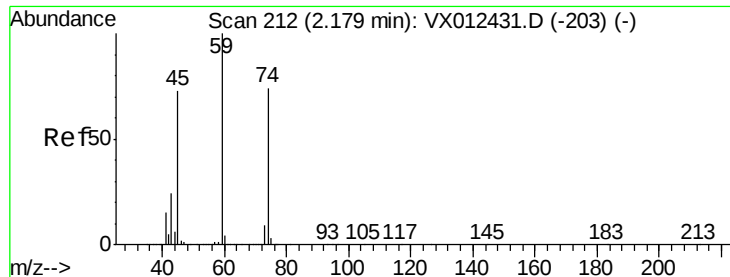
66 12.2 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.222 ug/l

RT: 2.19 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX012685.D

Acq: 26 Sep 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

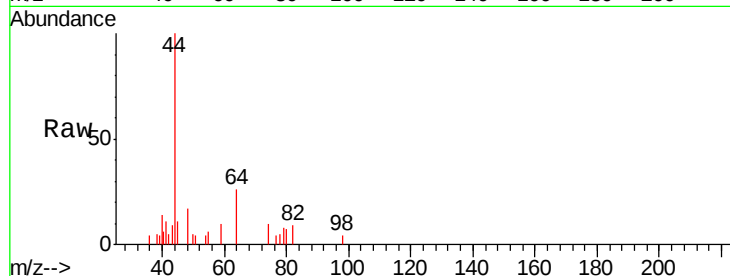
MW-7

Tgt Ion: 74 Resp: 268

Ion Ratio Lower Upper

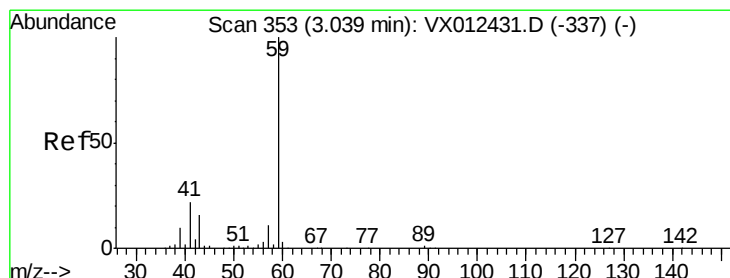
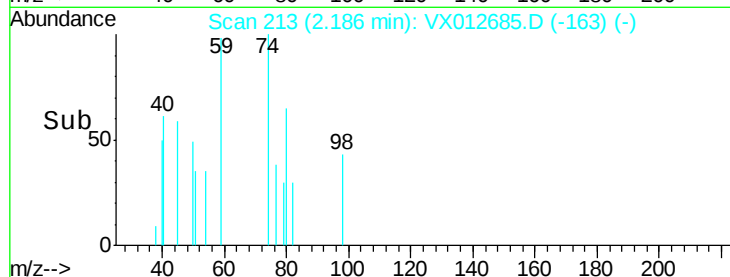
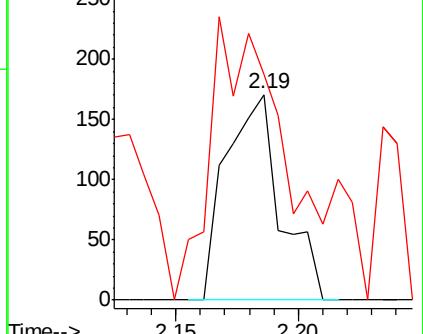
74 100

45 201.9 49.9 149.7#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 1509.863 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX012685.D

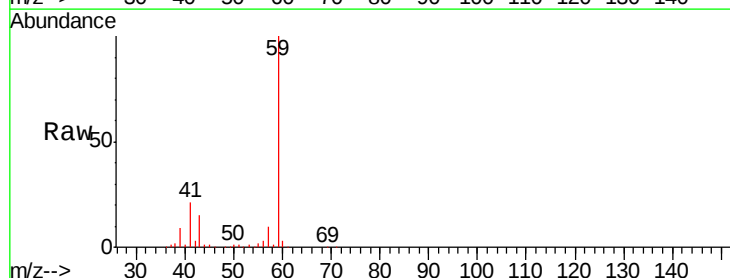
Acq: 26 Sep 2019 19:34

Tgt Ion: 59 Resp: 896142

Ion Ratio Lower Upper

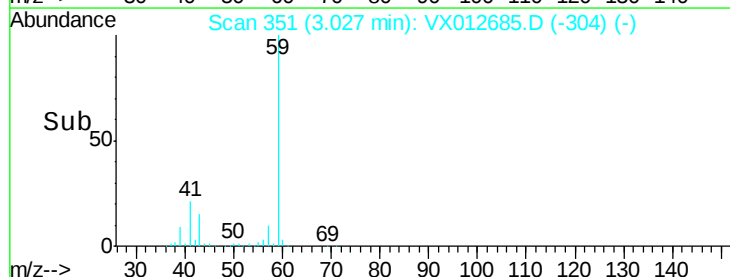
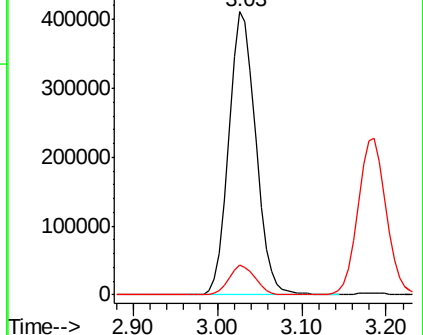
59 100

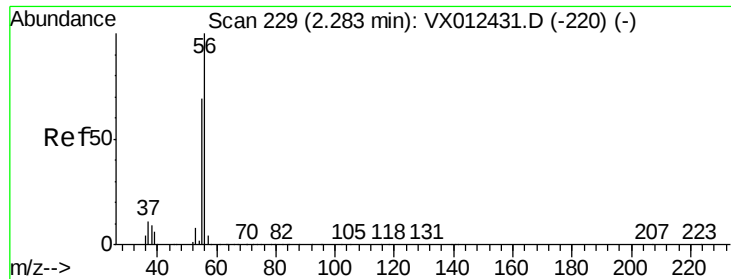
57 10.3 8.3 12.5



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 10.349 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX012685.D

Acq: 26 Sep 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

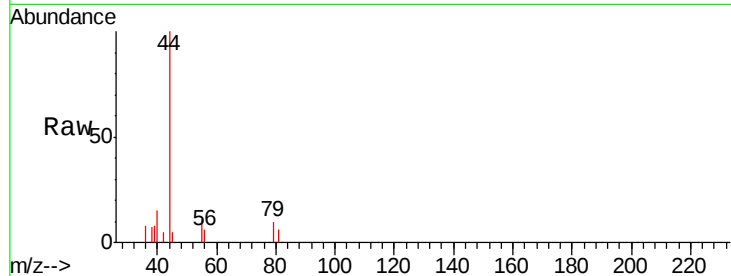
MW-7

Tgt Ion: 56 Resp: 40

Ion Ratio Lower Upper

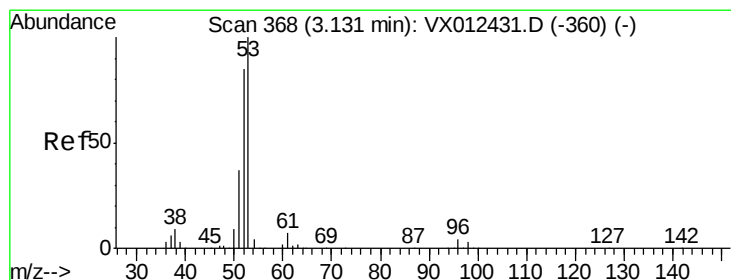
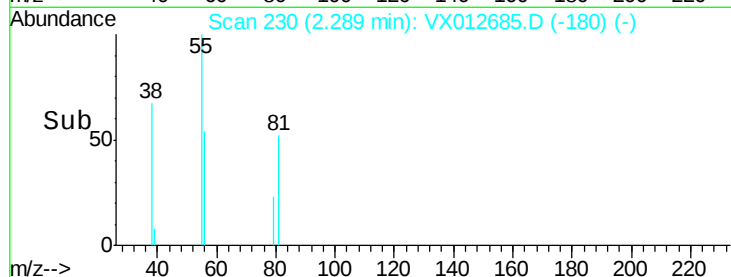
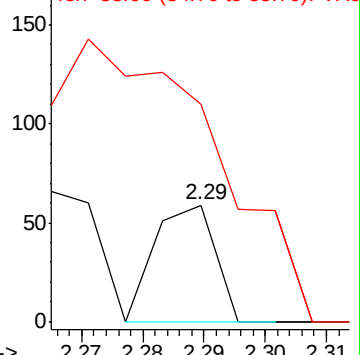
56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 19.389 ug/l

RT: 3.18 min Scan# 376

Delta R.T. 0.05 min

Lab File: VX012685.D

Acq: 26 Sep 2019 19:34

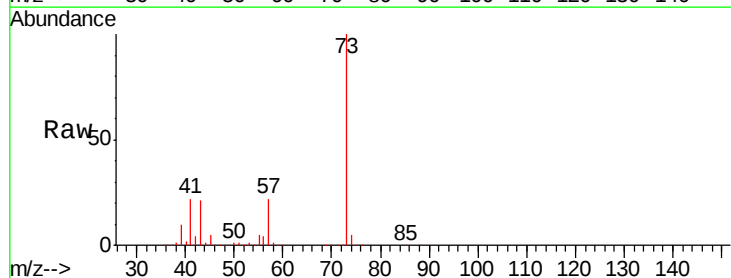
Tgt Ion: 53 Resp: 23347

Ion Ratio Lower Upper

53 100

52 19.2 67.0 100.4#

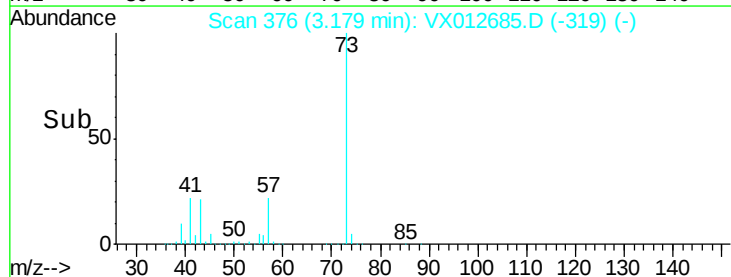
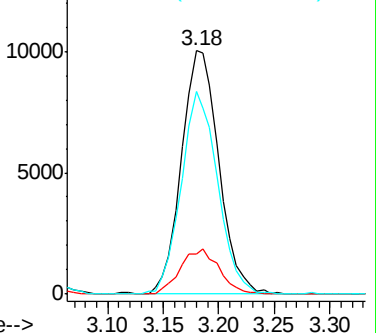
51 81.3 29.6 44.4#

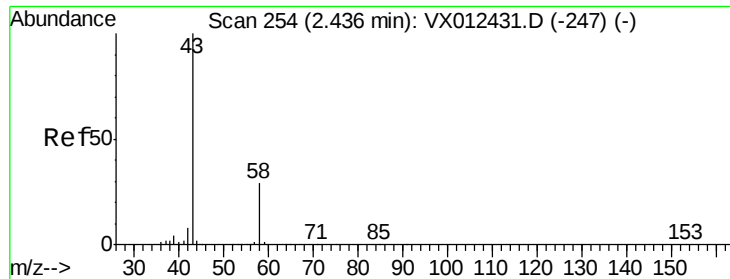


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1.861 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012685.D

Acq: 26 Sep 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

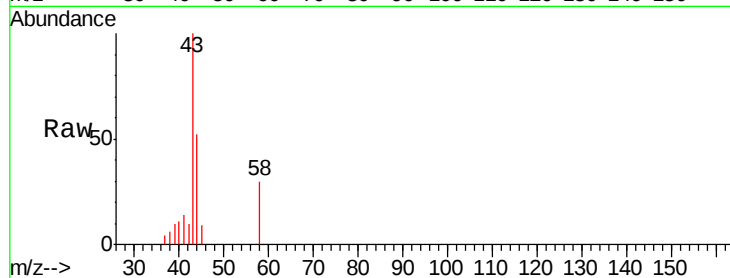
MW-7

Tgt Ion: 43 Resp: 2342

Ion Ratio Lower Upper

43 100

58 29.7 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

1500

1000

500

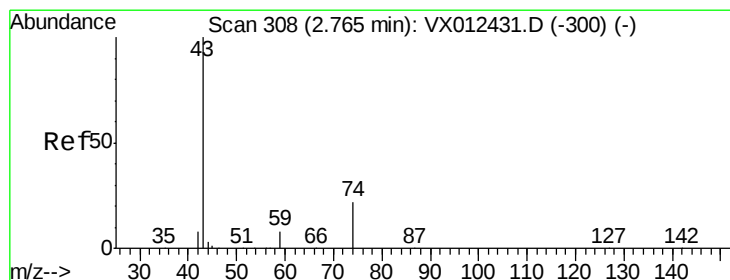
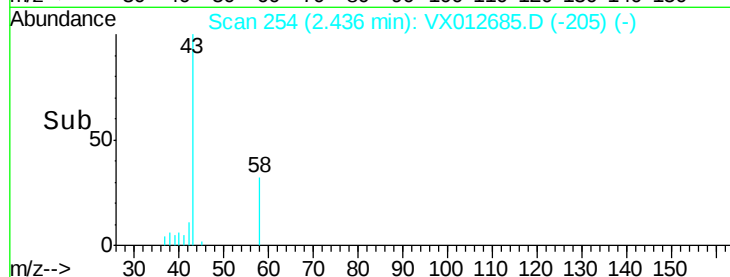
0

Time-->

2.40

2.45

2.50



#18

Methyl Acetate

Concen: 35.123 ug/l

RT: 3.03 min Scan# 351

Delta R.T. 0.26 min

Lab File: VX012685.D

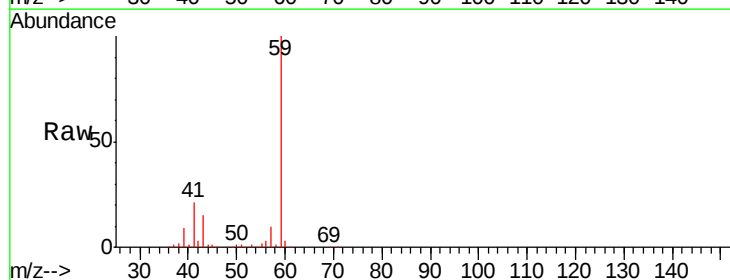
Acq: 26 Sep 2019 19:34

Tgt Ion: 43 Resp: 104082

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

3.03

60000

40000

20000

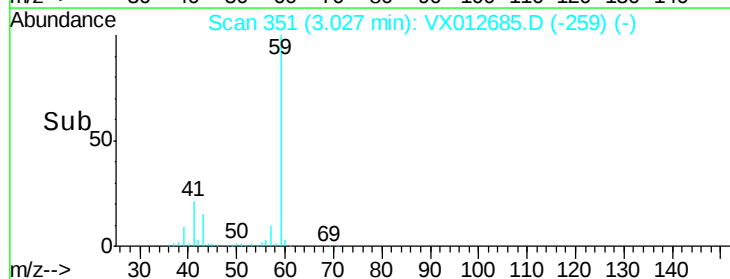
0

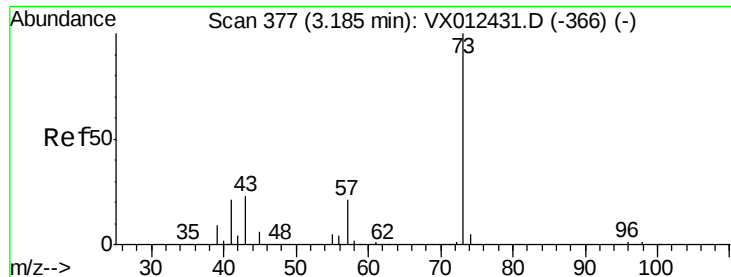
Time-->

2.95

3.00

3.05



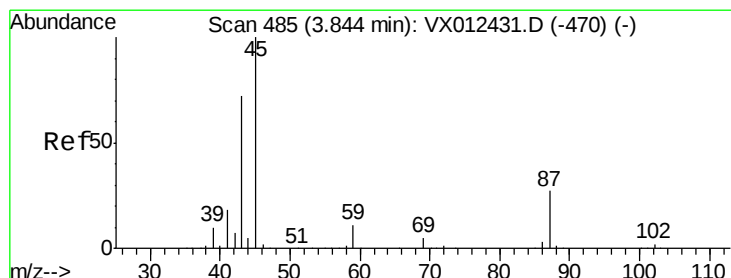
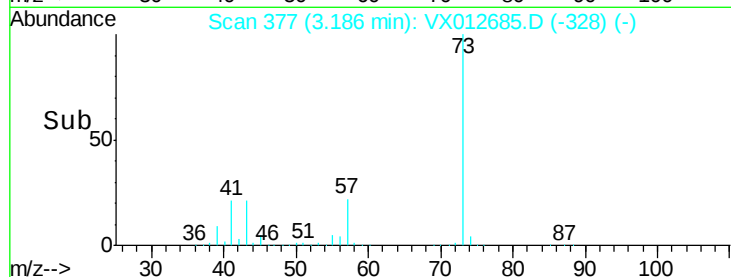
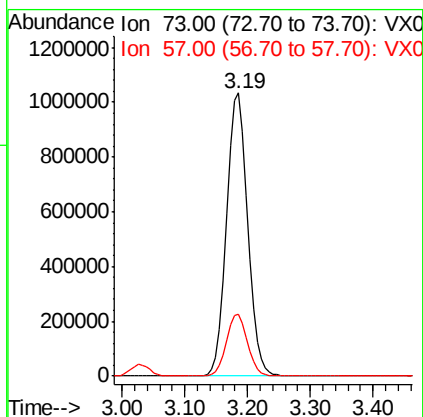
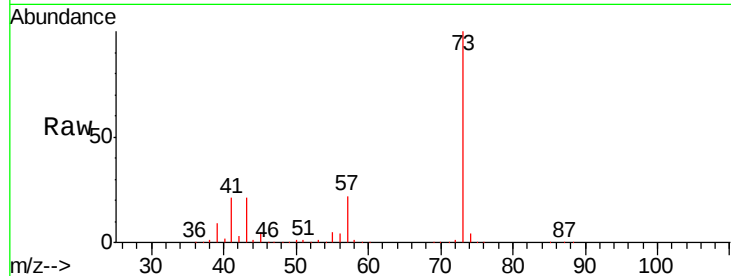


#19

Methyl tert-butyl Ether
 Concen: 361.955 ug/l
 RT: 3.19 min Scan# 377
 Delta R.T. 0.00 min
 Lab File: VX012685.D
 Acq: 26 Sep 2019 19:34

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-7

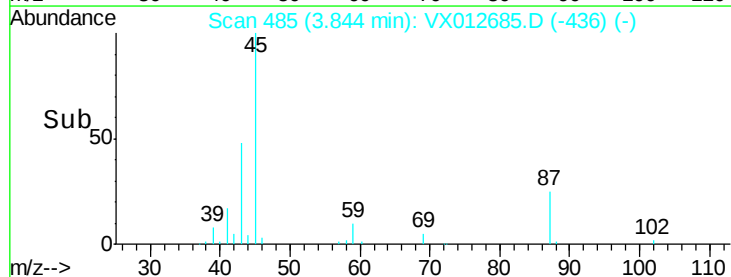
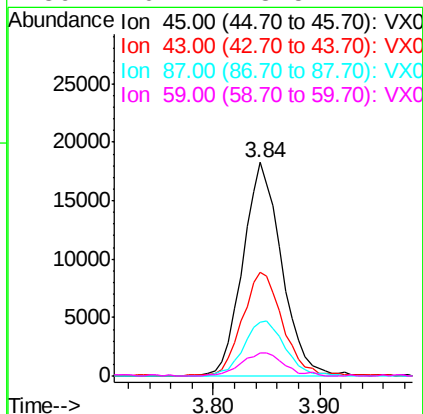
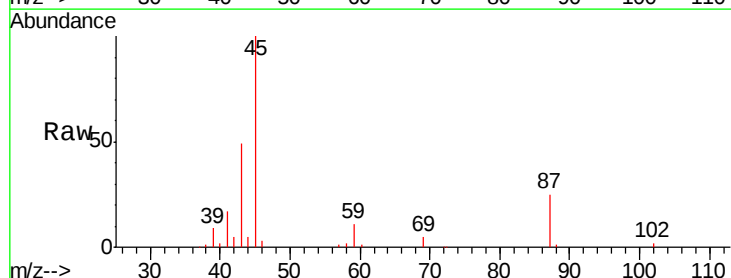
Tgt Ion: 73 Resp: 2403412
 Ion Ratio Lower Upper
 73 100
 57 22.1 16.8 25.2

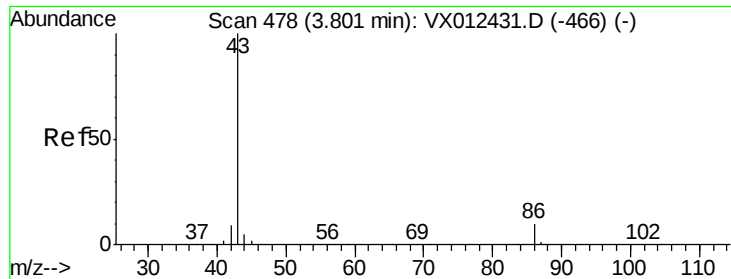


#22

Diisopropyl ether
 Concen: 6.926 ug/l
 RT: 3.84 min Scan# 485
 Delta R.T. 0.00 min
 Lab File: VX012685.D
 Acq: 26 Sep 2019 19:34

Tgt Ion: 45 Resp: 46578
 Ion Ratio Lower Upper
 45 100
 43 48.4 57.8 86.8#
 87 25.4 21.3 31.9
 59 10.7 8.5 12.7





#23

Vinyl Acetate

Concen: 4.012 ug/l

RT: 3.84 min Scan# 485

Delta R.T. 0.04 min

Lab File: VX012685.D

Acq: 26 Sep 2019 19:34

Instrument :

MSVOA_X

ClientSampled :

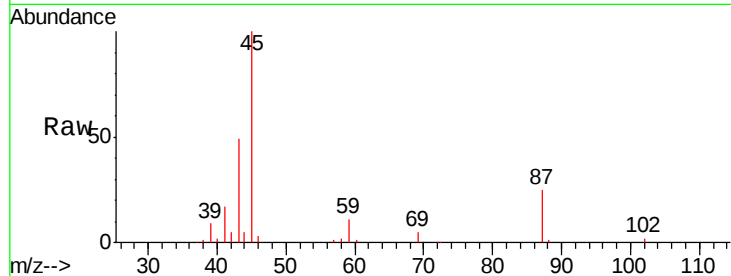
MW-7

Tgt Ion: 43 Resp: 23660

Ion Ratio Lower Upper

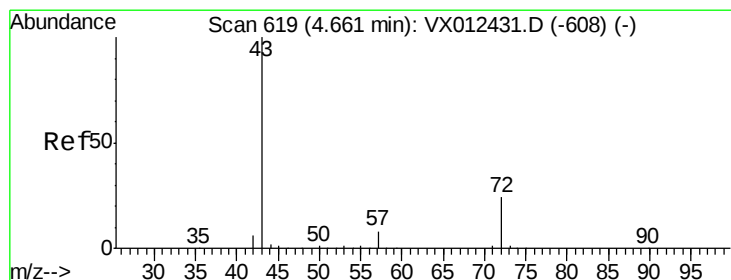
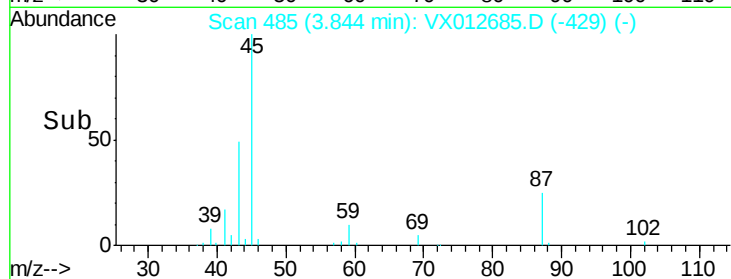
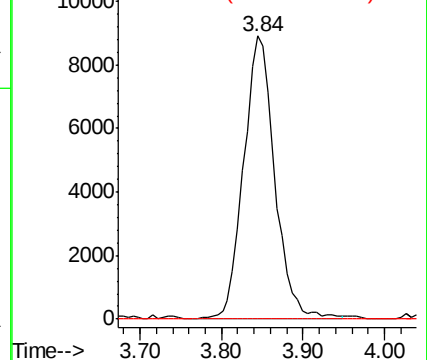
43 100

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: 0.943 ug/l

RT: 4.56 min Scan# 603

Delta R.T. -0.10 min

Lab File: VX012685.D

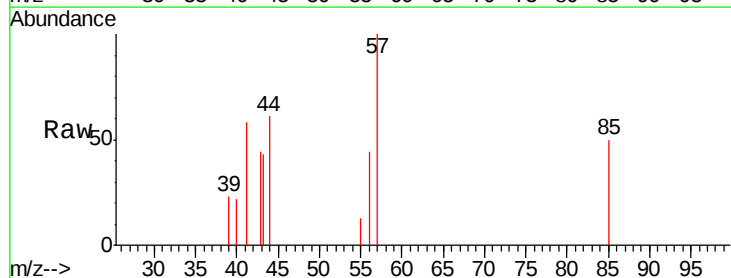
Acq: 26 Sep 2019 19:34

Tgt Ion: 43 Resp: 1702

Ion Ratio Lower Upper

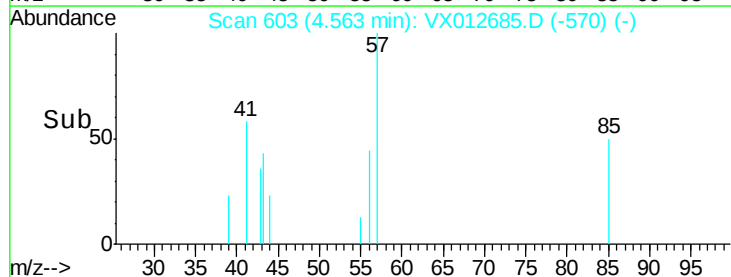
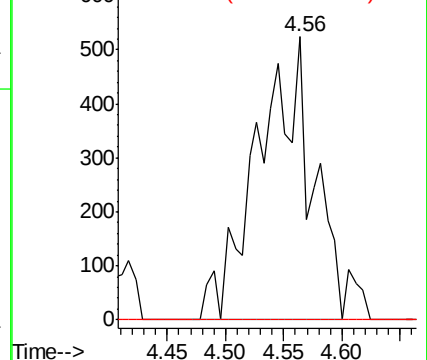
43 100

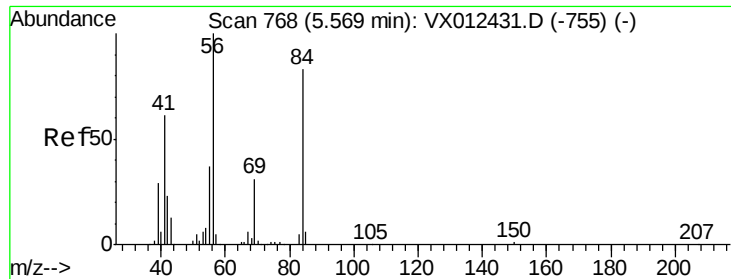
72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

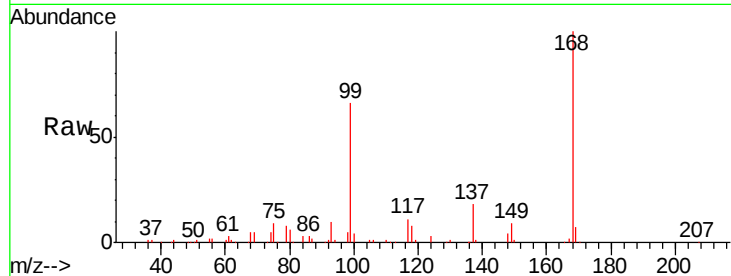




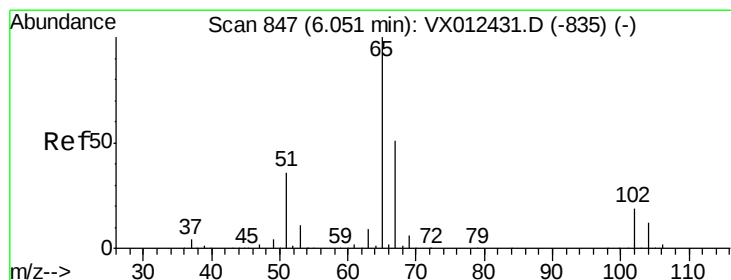
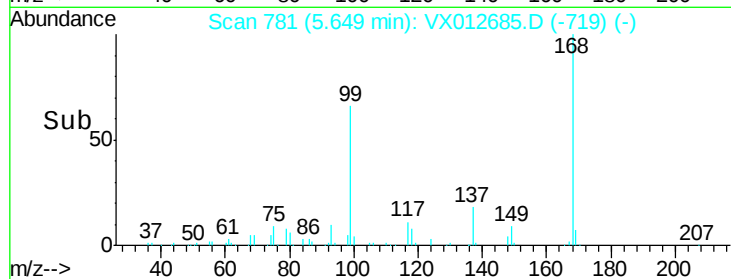
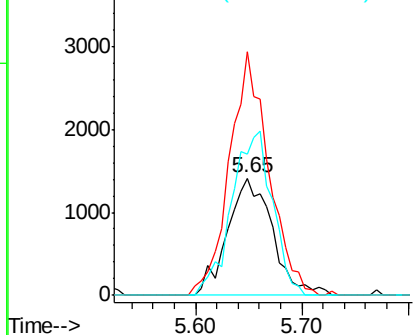
#31
Cyclohexane
Concen: 1.258 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX012685.D
Acq: 26 Sep 2019 19:34

Instrument :
MSVOA_X
ClientSampled :
MW-7

Tgt Ion: 56 Resp: 4160
Ion Ratio Lower Upper
56 100
69 207.3 25.0 37.6#
84 120.3 66.4 99.6#

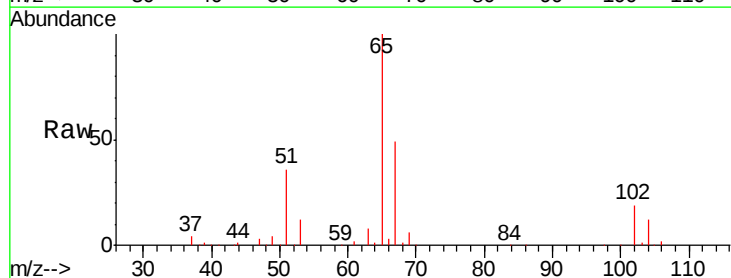


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

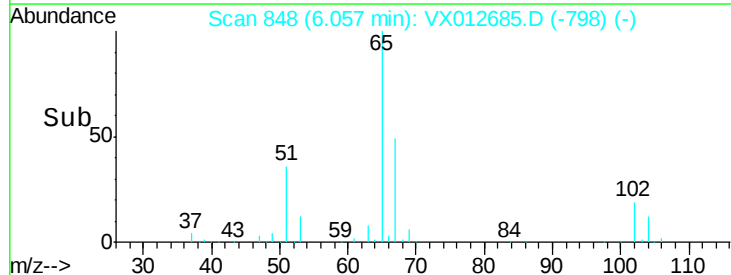
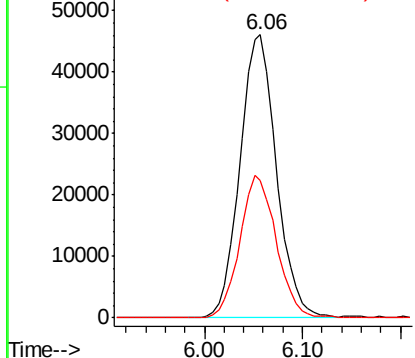


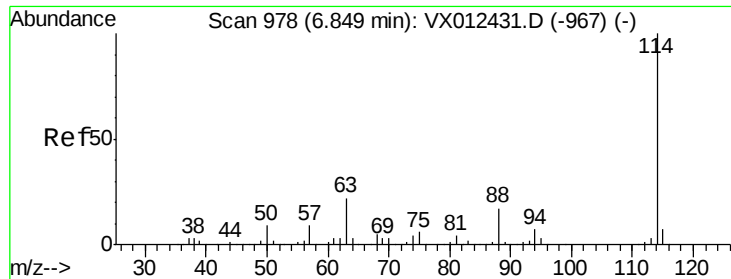
#33
1,2-Dichloroethane-d4
Concen: 50.182 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX012685.D
Acq: 26 Sep 2019 19:34

Tgt Ion: 65 Resp: 119230
Ion Ratio Lower Upper
65 100
67 50.4 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

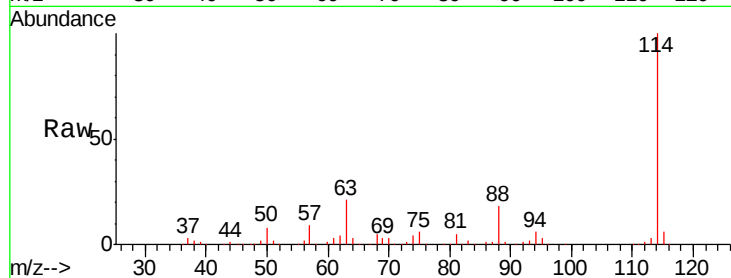




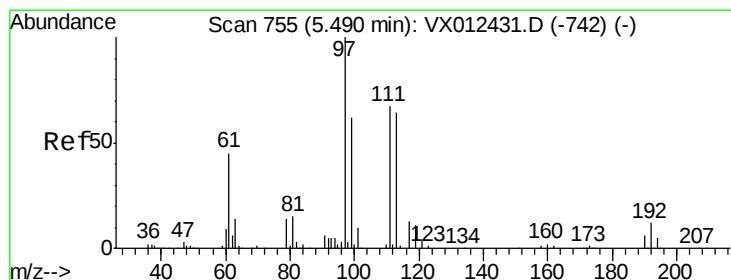
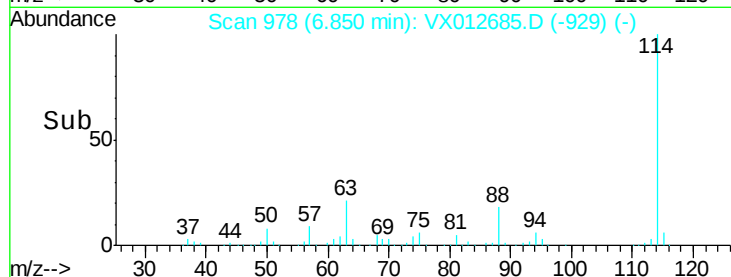
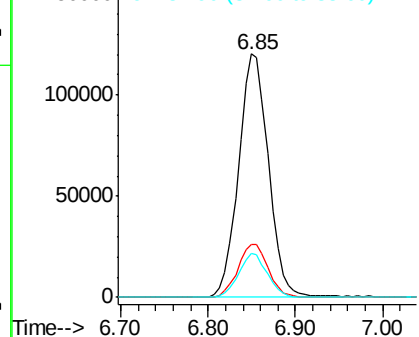
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012685.D
 Acq: 26 Sep 2019 19:34

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-7

Tgt Ion:114 Resp: 286164
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 43.2
 88 17.8 0.0 33.2

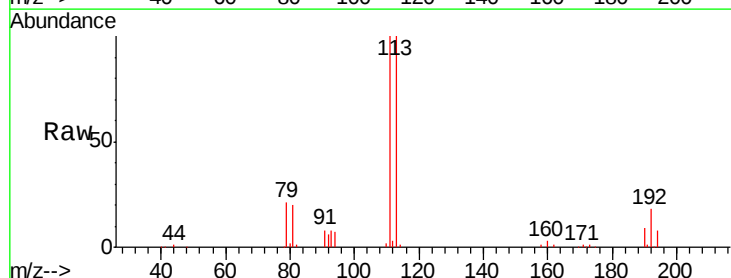


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

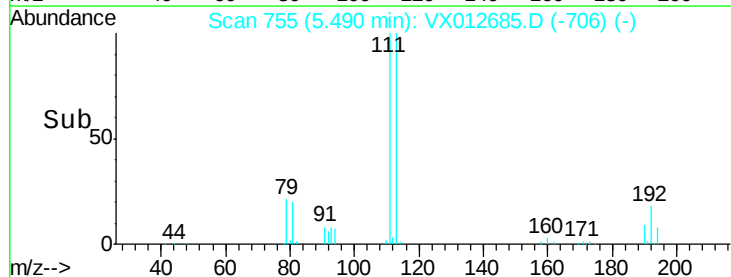
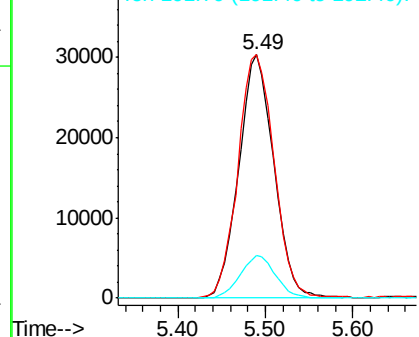


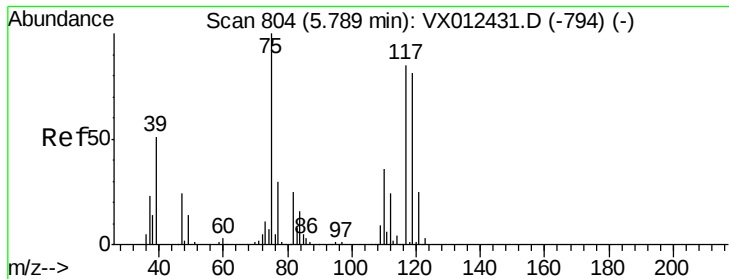
#35
 Dibromofluoromethane
 Concen: 49.610 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012685.D
 Acq: 26 Sep 2019 19:34

Tgt Ion:113 Resp: 84547
 Ion Ratio Lower Upper
 113 100
 111 103.4 83.4 125.2
 192 17.7 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

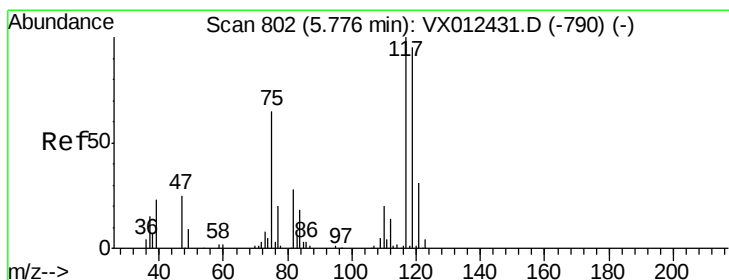
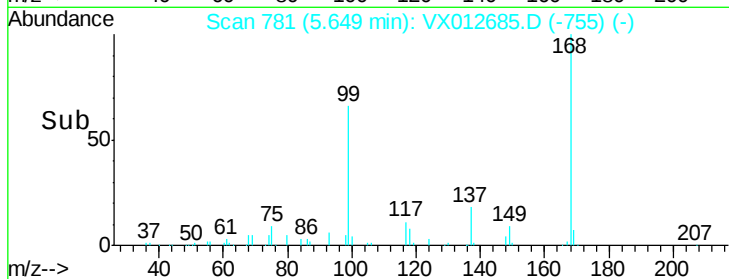
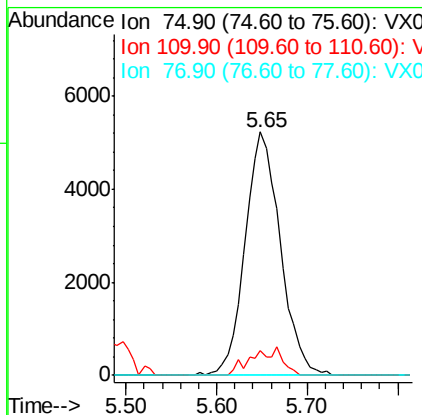
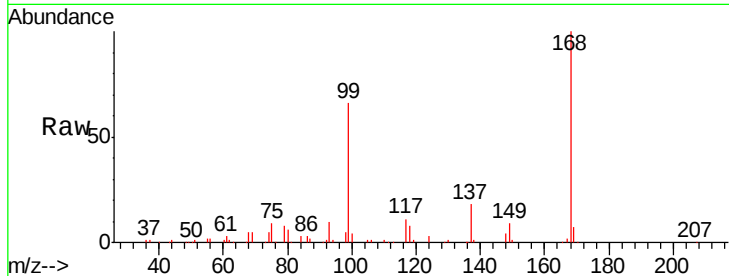




#36
 1,1-Dichloropropene
 Concen: 5.101 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012685.D
 Acq: 26 Sep 2019 19:34

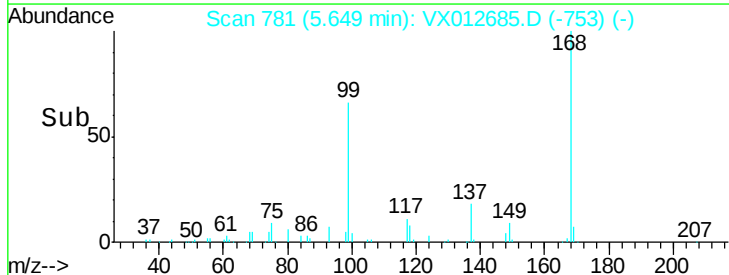
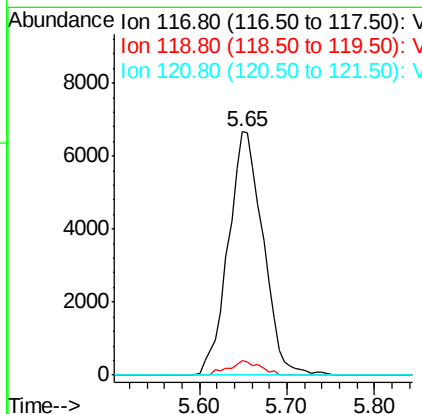
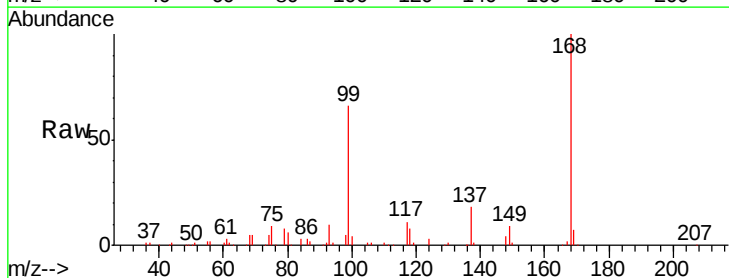
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-7

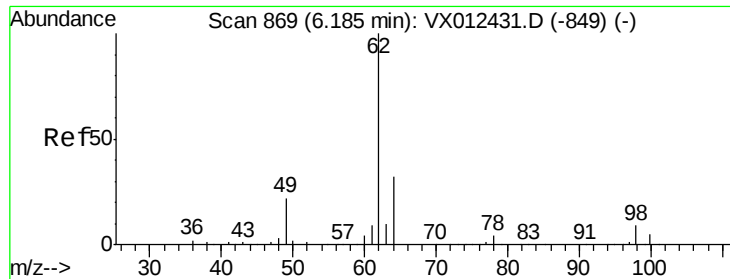
Tgt Ion: 75 Resp: 14071
 Ion Ratio Lower Upper
 75 100
 110 5.9 16.7 50.0#
 77 0.0 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 6.574 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX012685.D
 Acq: 26 Sep 2019 19:34

Tgt Ion: 117 Resp: 18420
 Ion Ratio Lower Upper
 117 100
 119 5.8 75.7 113.5#
 121 0.0 24.2 36.4#





#42

1,2-Dichloroethane

Concen: 0.940 ug/l

RT: 6.20 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX012685.D

Acq: 26 Sep 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

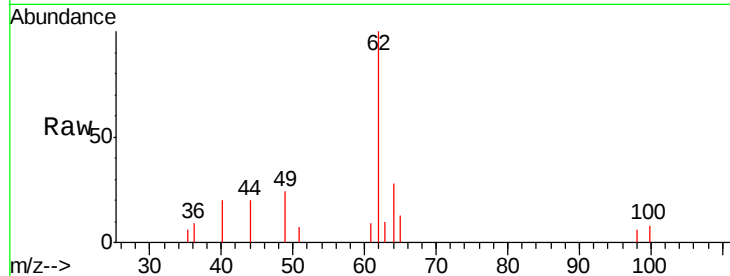
MW-7

Tgt Ion: 62 Resp: 2898

Ion Ratio Lower Upper

62 100

98 5.8 0.0 17.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

6.20

1200

1000

800

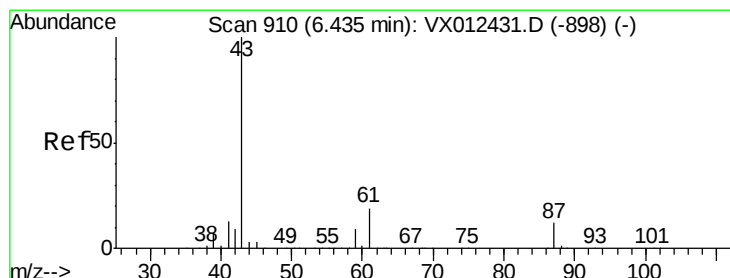
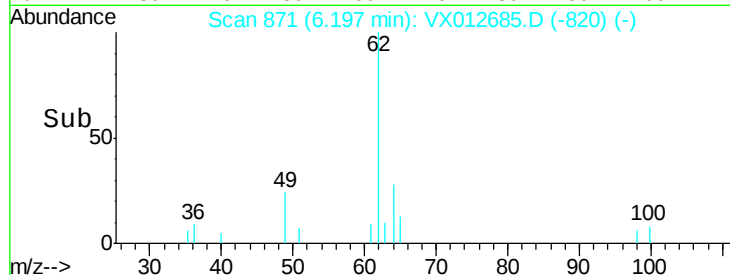
600

400

200

0

Time-->



#43

Isopropyl Acetate

Concen: 0.742 ug/l

RT: 6.42 min Scan# 908

Delta R.T. -0.01 min

Lab File: VX012685.D

Acq: 26 Sep 2019 19:34

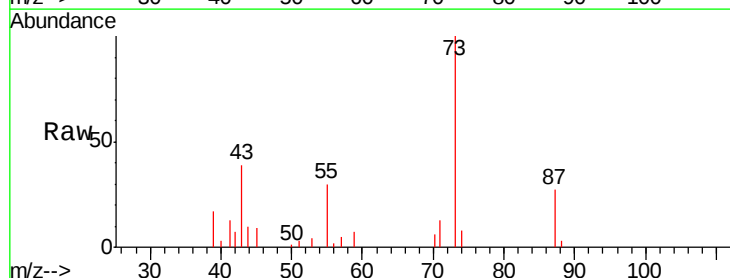
Tgt Ion: 43 Resp: 4004

Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

87 69.1 9.8 14.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

5000

4000

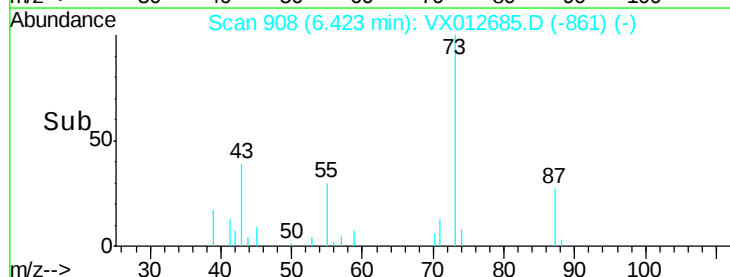
3000

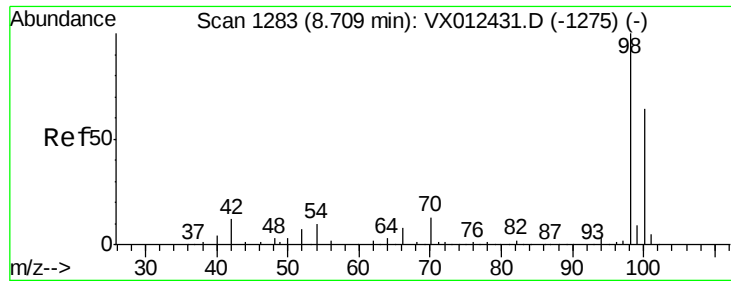
2000

1000

0

Time-->





#50

Toluene-d8

Concen: 51.412 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012685.D

Acq: 26 Sep 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

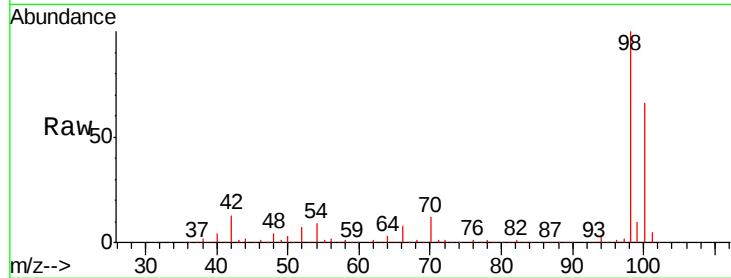
MW-7

Tgt Ion: 98 Resp: 337424

Ion Ratio Lower Upper

98 100

100 66.4 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

150000

100000

50000

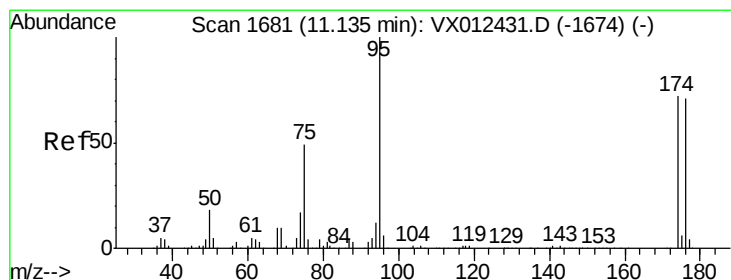
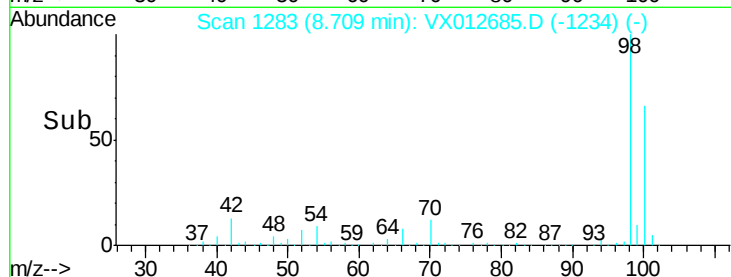
0

Time-->

8.60

8.70

8.80



#62

4-Bromofluorobenzene

Concen: 45.453 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012685.D

Acq: 26 Sep 2019 19:34

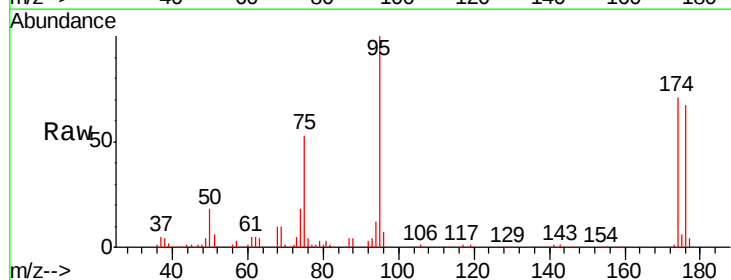
Tgt Ion: 95 Resp: 117298

Ion Ratio Lower Upper

95 100

174 67.3 0.0 140.0

176 64.7 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

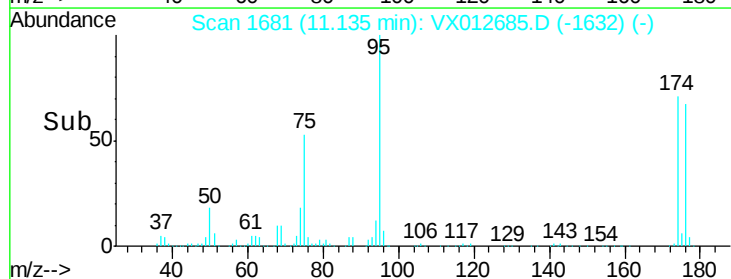
20000

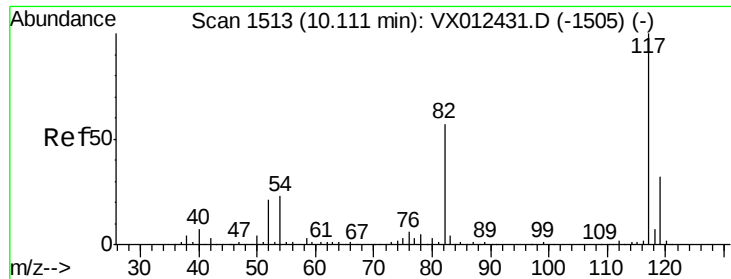
0

Time-->

11.10

11.20

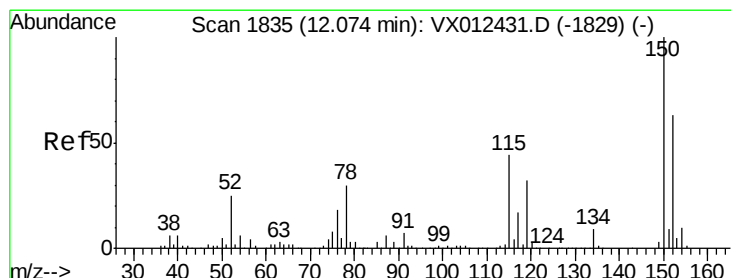
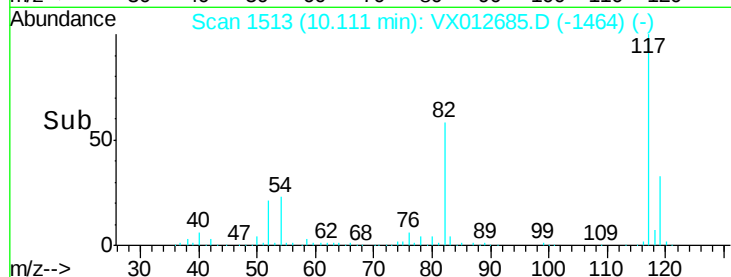
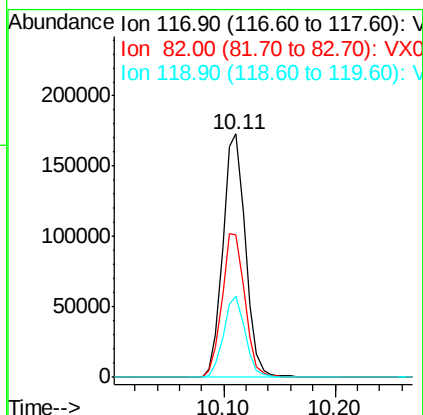
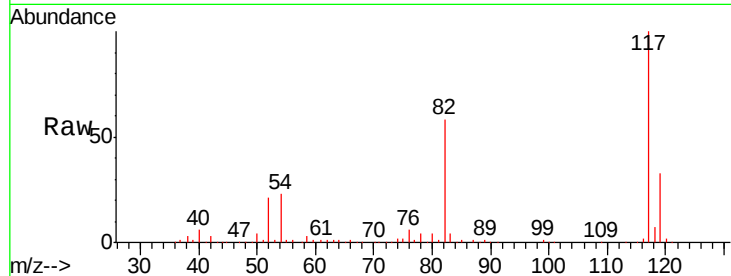




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012685.D
Acq: 26 Sep 2019 19:34

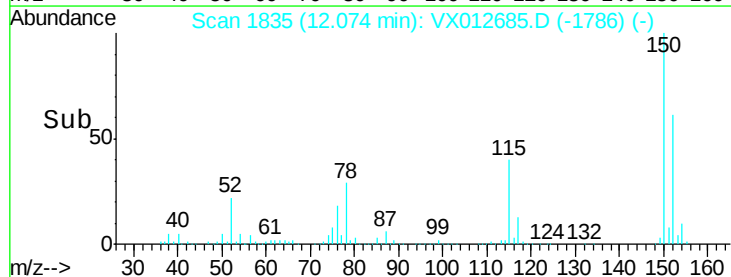
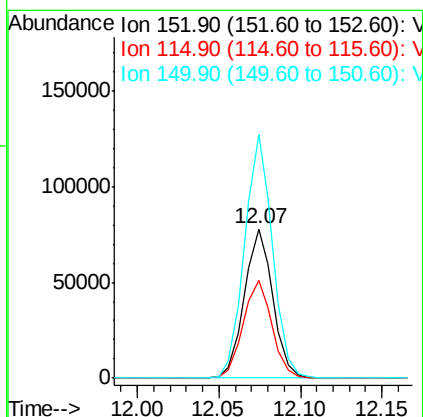
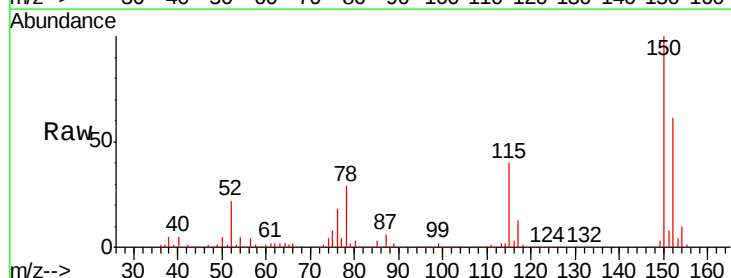
Instrument :
MSVOA_X
ClientSampled :
MW-7

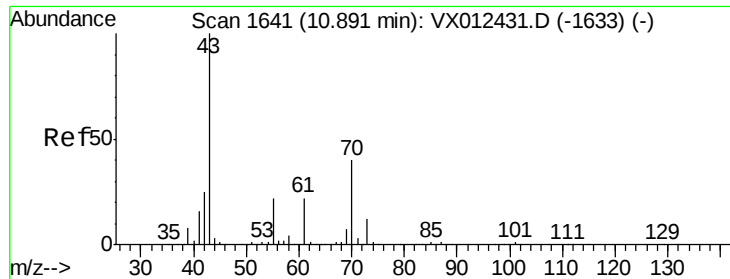
Tgt Ion:117 Resp: 243232
Ion Ratio Lower Upper
117 100
82 58.3 45.9 68.9
119 33.3 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012685.D
Acq: 26 Sep 2019 19:34

Tgt Ion:152 Resp: 94942
Ion Ratio Lower Upper
152 100
115 66.0 44.1 132.3
150 160.1 0.0 343.8





#74

N-amyI acetate

Concen: 0.350 ug/l

RT: 10.93 min Scan# 1648

Delta R.T. 0.04 min

Lab File: VX012685.D

Acq: 26 Sep 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

MW-7

Tgt Ion: 43 Resp: 1290

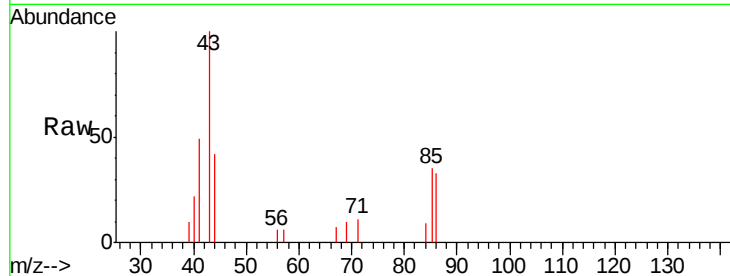
Ion Ratio Lower Upper

43 100

70 0.0 32.4 48.6#

55 0.0 18.2 27.4#

61 0.0 18.5 27.7#

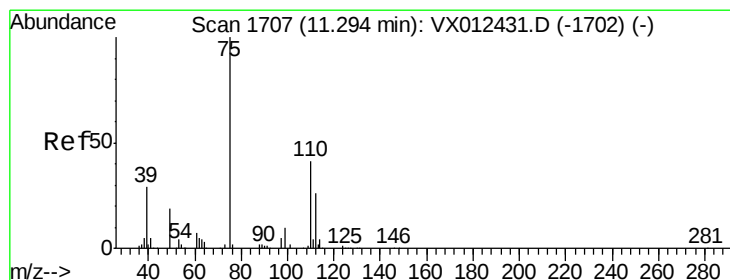
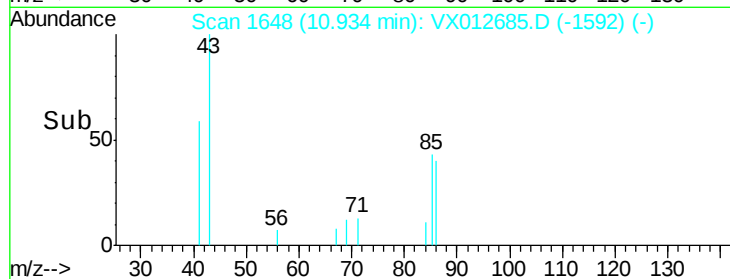
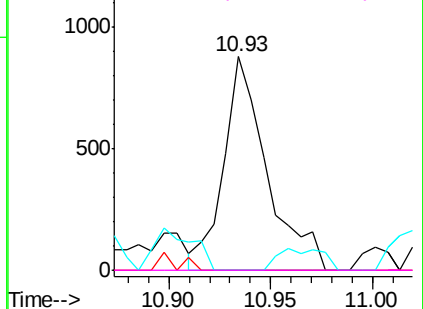


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 24.622 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012685.D

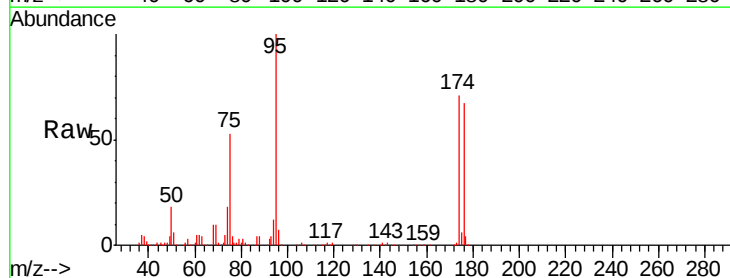
Acq: 26 Sep 2019 19:34

Tgt Ion: 75 Resp: 61836

Ion Ratio Lower Upper

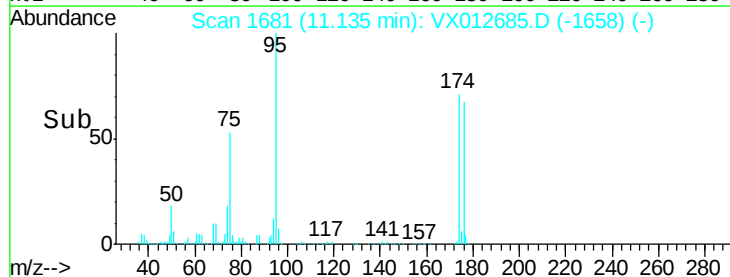
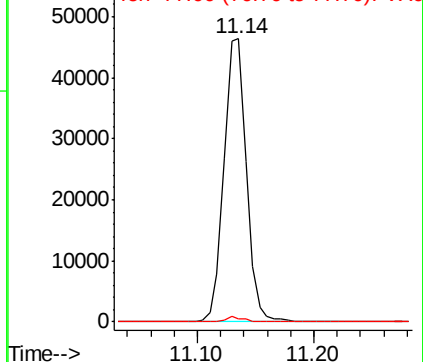
75 100

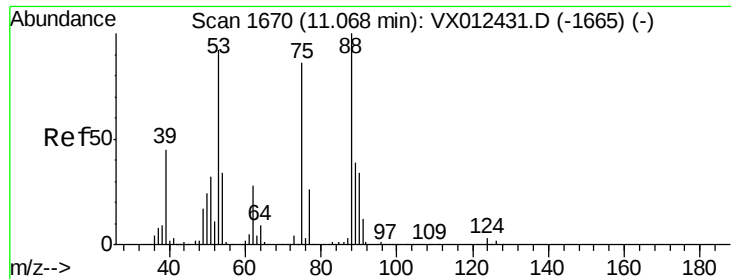
77 1.5 19.7 59.0#



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: 70.560 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012685.D

Acq: 26 Sep 2019 19:34

Instrument :

MSVOA_X

ClientSampleId :

MW-7

Tgt Ion: 75 Resp: 61836

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

89 0.0 36.3 54.5#

