

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091018\
 Data File : VX004443.D
 Acq On : 10 Sep 2018 12:48
 Operator : JC/MD
 Sample : PB112704TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704TB

Quant Time: Sep 11 01:18:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	342949	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	565034	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	566041	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	290298	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	240071	53.71	ug/l	0.00
Spiked Amount			Recovery	=	107.42%	
35) Dibromofluoromethane	5.49	113	212445	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
50) Toluene-d8	8.71	98	811095	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	
62) 4-Bromofluorobenzene	11.14	95	268662	45.38	ug/l	0.00
Spiked Amount			Recovery	=	90.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	637	0.43	ug/l	# 84
5) Bromomethane	1.65	94	349	Below Cal		94
6) Chloroethane	1.73	64	268	1.04	ug/l	# 66
10) Methyl Iodide	2.52	142	895	4.45	ug/l	# 93
11) Tert butyl alcohol	3.03	59	468	0.49	ug/l	98
13) Acrolein	2.29	56	164	0.71	ug/l	# 1
15) Acrylonitrile	3.14	53	600	0.25	ug/l	# 75
16) Acetone	2.44	43	25173	5.91	ug/l	99
17) Carbon Disulfide	2.57	76	1613	0.96	ug/l	# 76
18) Methyl Acetate	2.77	43	7560	1.14	ug/l	97
20) Methylene Chloride	2.85	84	17802	4.14	ug/l	95
25) 2-Butanone	4.70	43	3599	Below Cal		# 82
29) Tetrahydrofuran	5.15	42	1801	0.94	ug/l	# 40
30) Chloroform	5.21	83	3586	0.49	ug/l	87
31) Cyclohexane	5.66	56	5726	0.91	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	22368	3.52	ug/l	# 49
37) Ethyl Acetate	4.70	43	3599	0.58	ug/l	# 67
38) Carbon Tetrachloride	5.66	117	29555	4.95	ug/l	# 15
43) Isopropyl Acetate	6.46	43	224381	23.37	ug/l	99
48) Methyl methacrylate	7.68	41	8543	1.66	ug/l	# 20
51) 4-Methyl-2-Pentanone	8.62	43	3312	0.47	ug/l	# 34
59) 2-Hexanone	9.54	43	15273	2.87	ug/l	# 57
76) 1,2,3-Trichloropropane	11.14	75	125644	21.28	ug/l	# 37
80) 1,3,5-Trimethylbenzene	11.51	105	3525	0.22	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.14	75	125644	69.05	ug/l	# 10
94) Hexachlorobutadiene	13.78	225	285	Below Cal		85

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX004443.D

Acq: 10 Sep 2018 12:48

Instrument :

MSVOA_X

ClientSampleId :

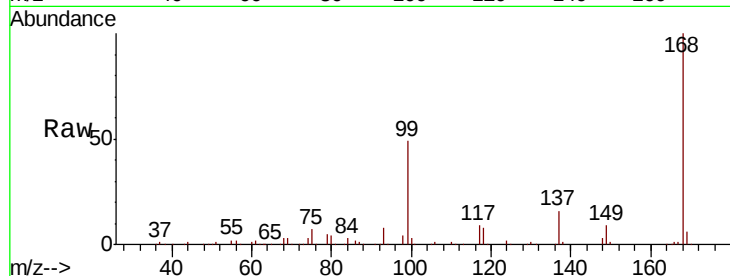
PB112704TB

Tot Ion:168 Resp: 342949

Ion Ratio Lower Upper

168 100

99 48.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

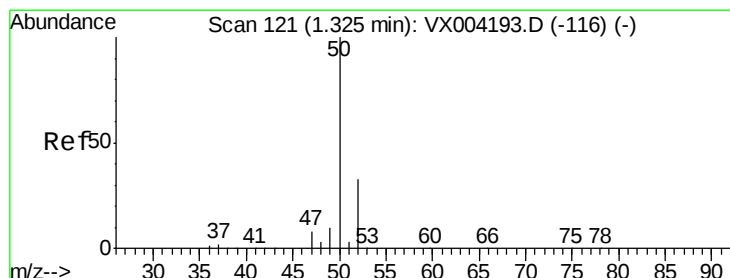
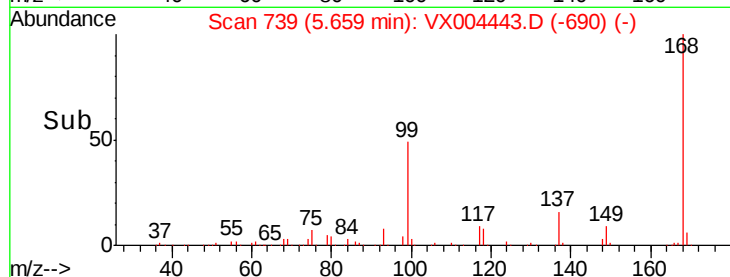
5.66

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.43 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004443.D

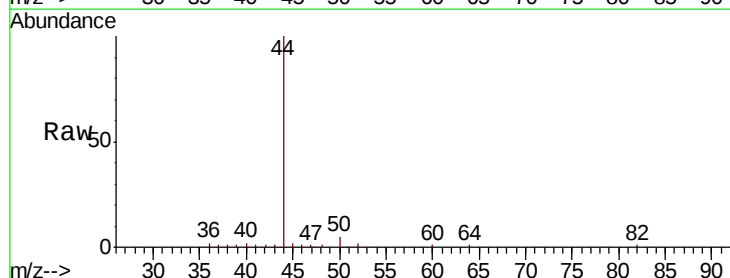
Acq: 10 Sep 2018 12:48

Tgt Ion: 50 Resp: 637

Ion Ratio Lower Upper

50 100

52 41.6 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

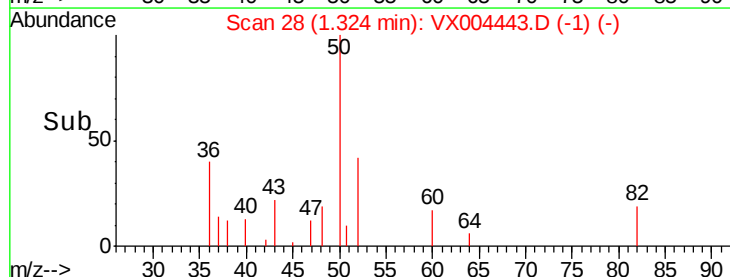
300

200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004443.D

Acq: 10 Sep 2018 12:48

Instrument :

MSVOA_X

ClientSampleId :

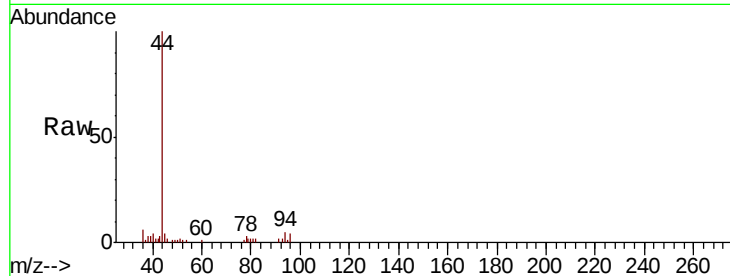
PB112704TB

Tot Ion: 94 Resp: 349

Ion Ratio Lower Upper

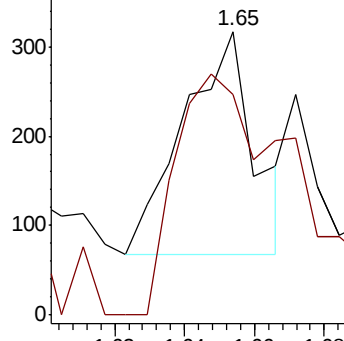
94 100

96 99.2 74.5 111.7

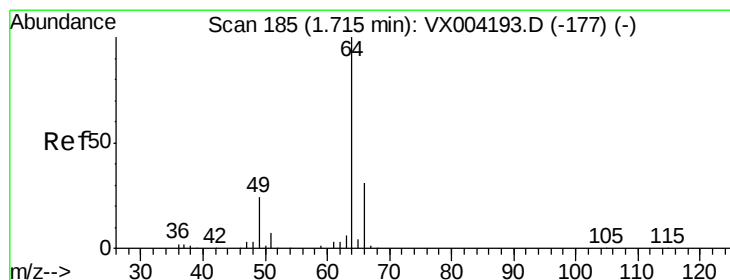
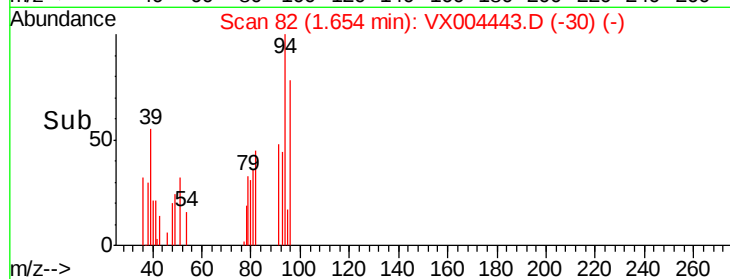


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 1.04 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX004443.D

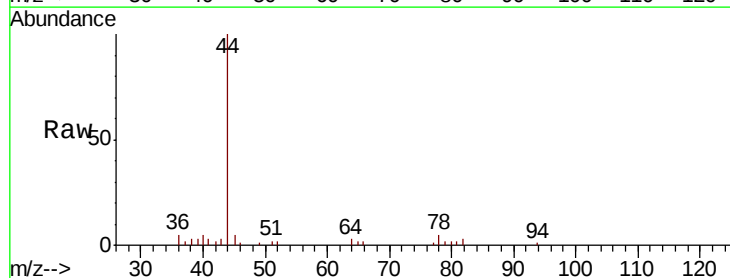
Acq: 10 Sep 2018 12:48

Tgt Ion: 64 Resp: 268

Ion Ratio Lower Upper

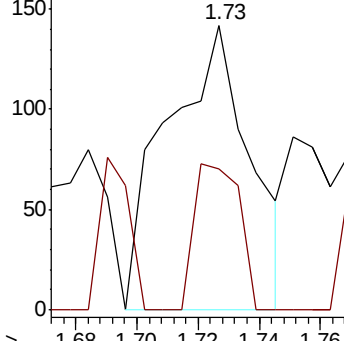
64 100

66 49.3 24.6 36.8#

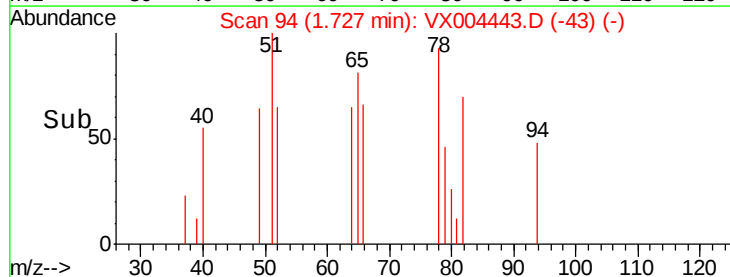


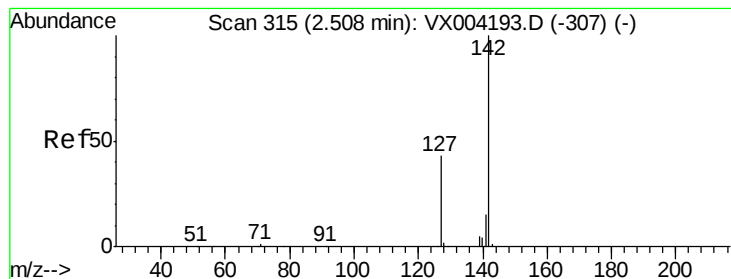
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->





#10

Methyl Iodide

Concen: 4.45 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004443.D

Acq: 10 Sep 2018 12:48

Instrument :

MSVOA_X

ClientSampled :

PB112704TB

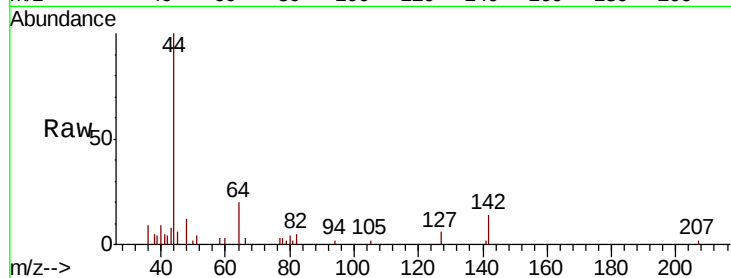
Tot Ion:142 Resp: 895

Ion Ratio Lower Upper

142 100

127 44.6 33.8 50.6

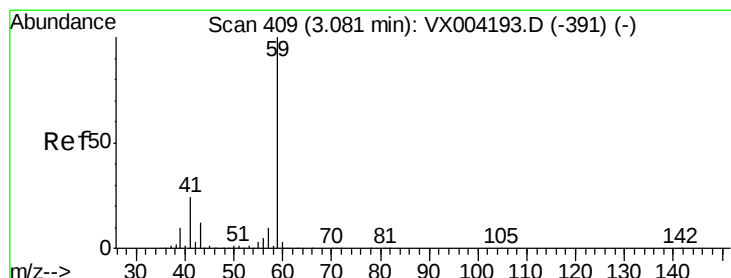
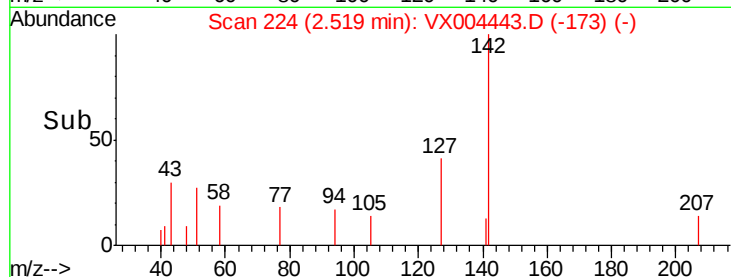
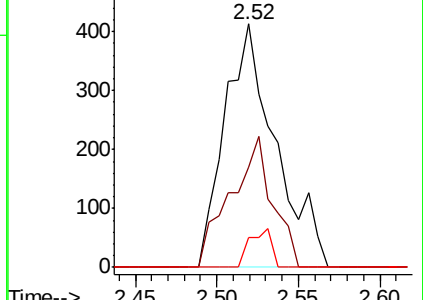
141 6.9 11.4 17.0#



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: 0.49 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.05 min

Lab File: VX004443.D

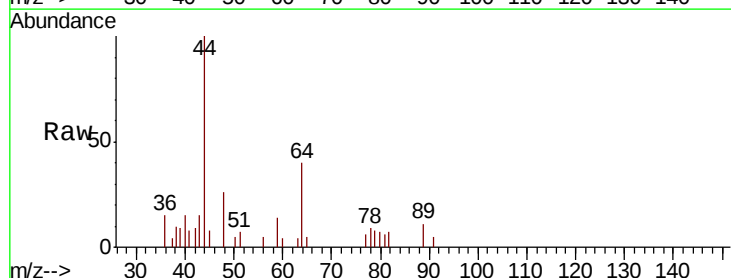
Acq: 10 Sep 2018 12:48

Tgt Ion: 59 Resp: 468

Ion Ratio Lower Upper

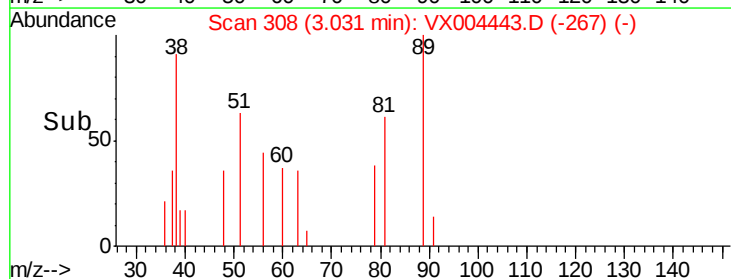
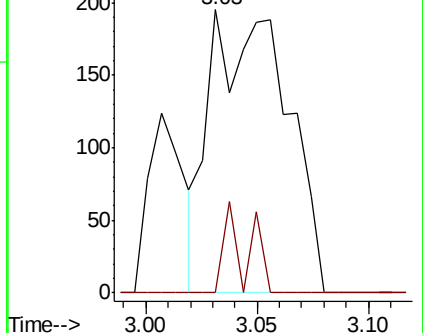
59 100

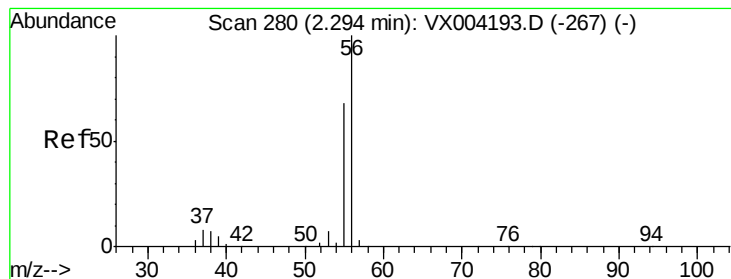
57 9.4 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.71 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004443.D

Acq: 10 Sep 2018 12:48

Instrument :

MSVOA_X

ClientSampled :

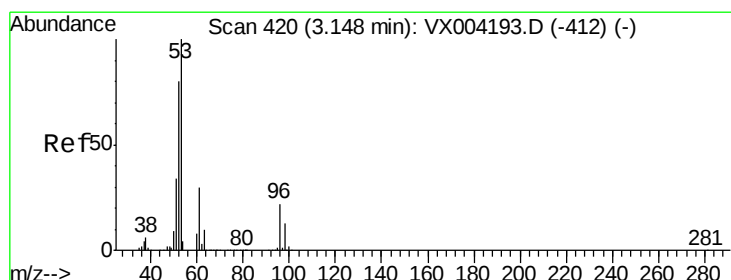
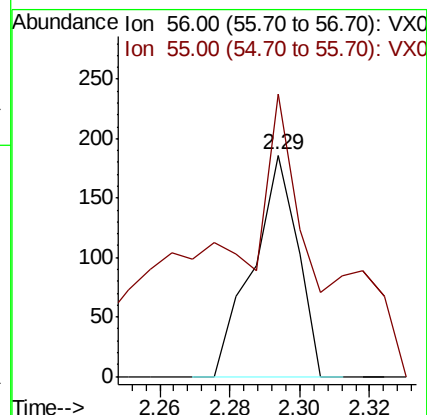
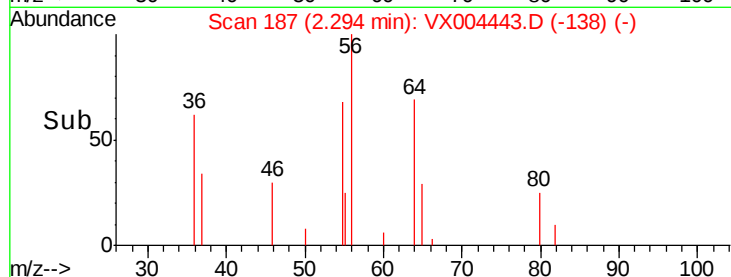
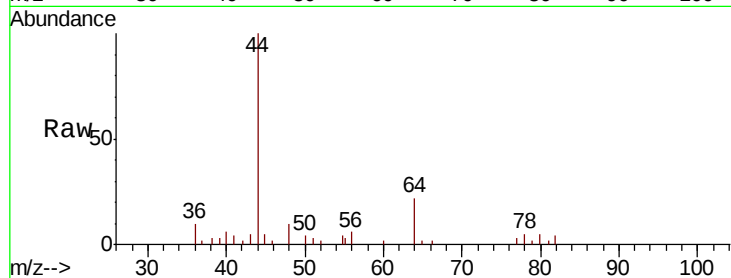
PB112704TB

Tot Ion: 56 Resp: 164

Ion Ratio Lower Upper

56 100

55 300.0 54.7 82.1#



#15

Acrylonitrile

Concen: 0.25 ug/l

RT: 3.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX004443.D

Acq: 10 Sep 2018 12:48

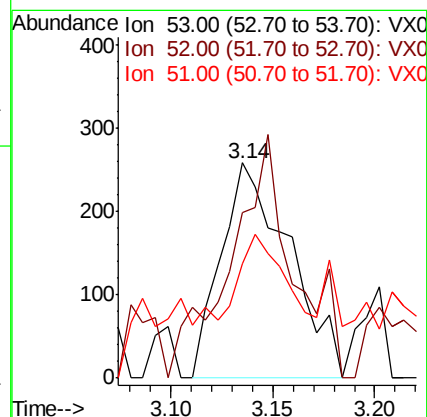
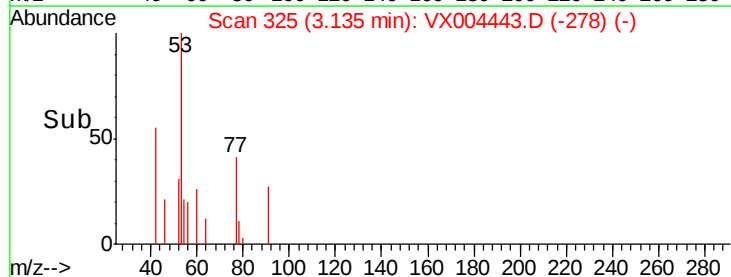
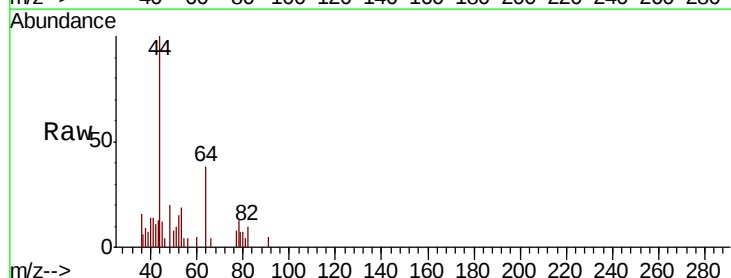
Tgt Ion: 53 Resp: 600

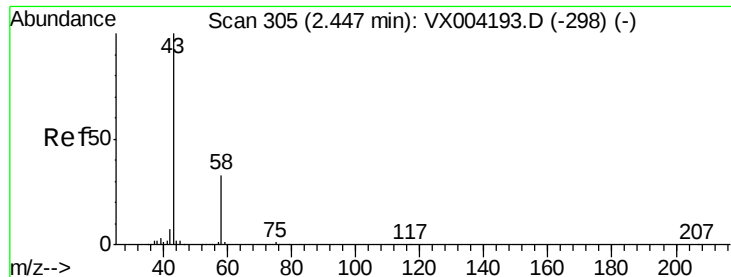
Ion Ratio Lower Upper

53 100

52 105.0 65.2 97.8#

51 23.0 28.2 42.2#





#16

Acetone

Concen: 5.91 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004443.D

Acq: 10 Sep 2018 12:48

Instrument :

MSVOA_X

ClientSampleId :

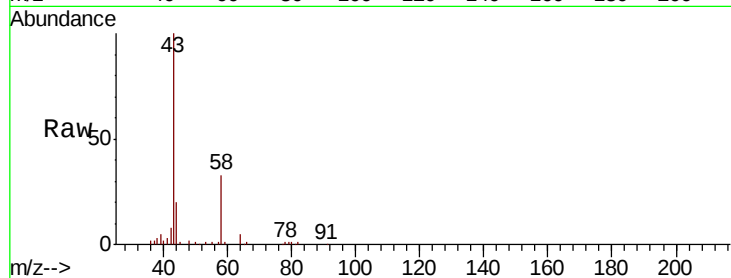
PB112704TB

Tot Ion: 43 Resp: 25173

Ion Ratio Lower Upper

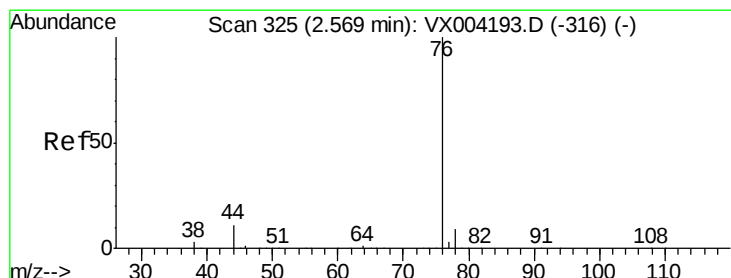
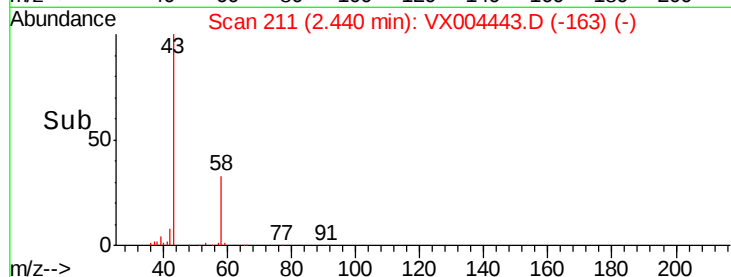
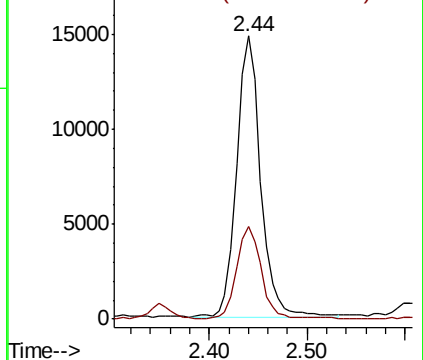
43 100

58 33.2 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.96 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004443.D

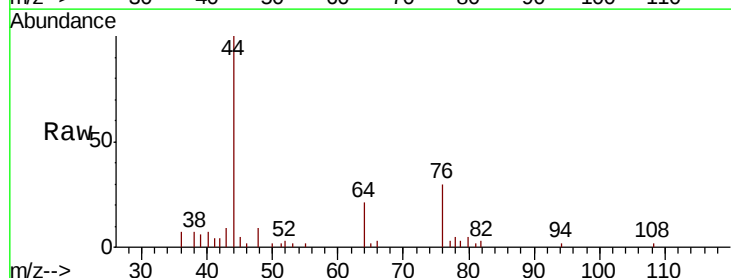
Acq: 10 Sep 2018 12:48

Tgt Ion: 76 Resp: 1613

Ion Ratio Lower Upper

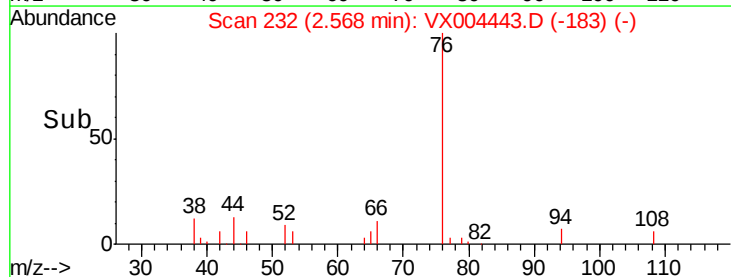
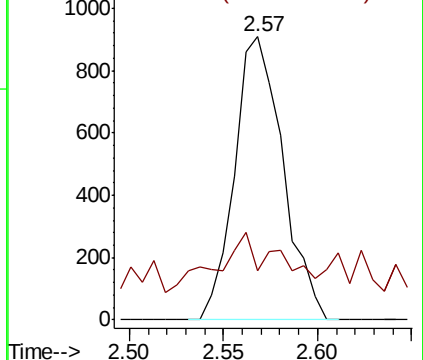
76 100

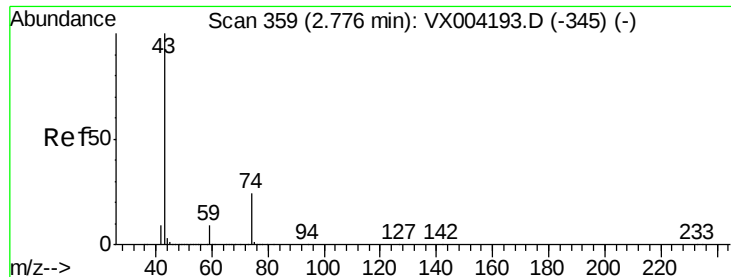
78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

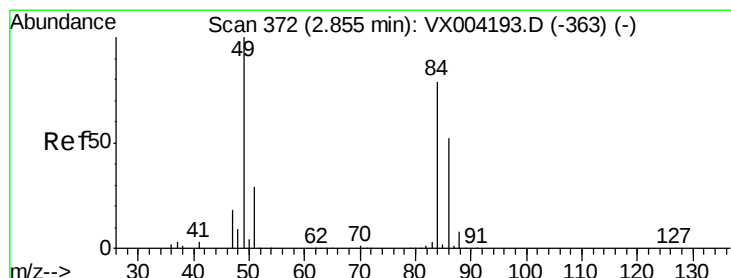
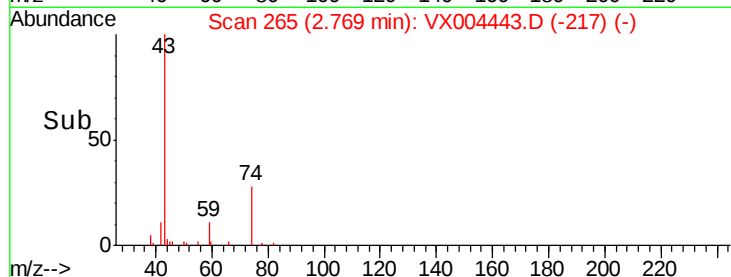
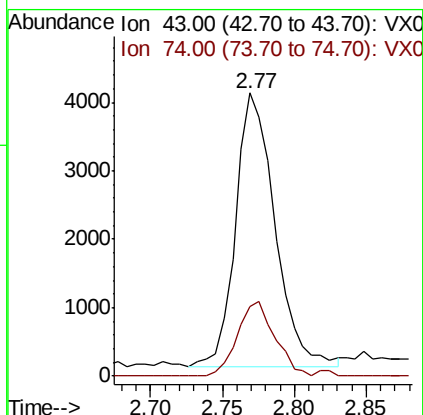
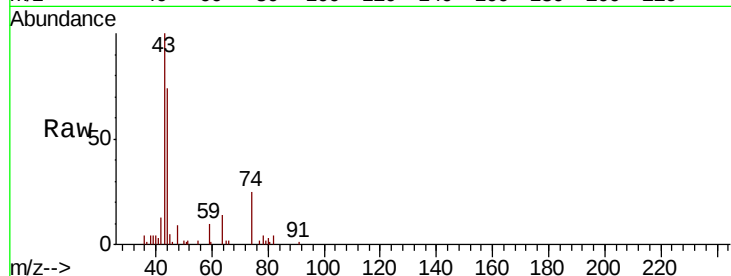




#18
Methyl Acetate
Concen: 1.14 ug/l
RT: 2.77 min Scan# 265
Delta R.T. -0.01 min
Lab File: VX004443.D
Acq: 10 Sep 2018 12:48

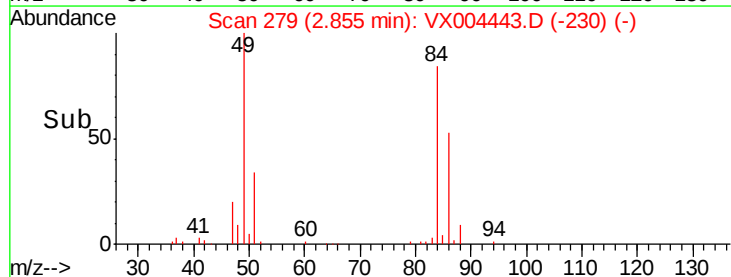
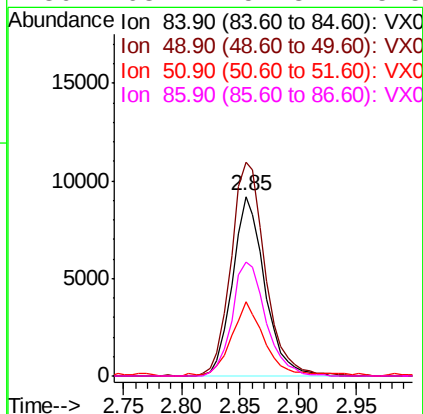
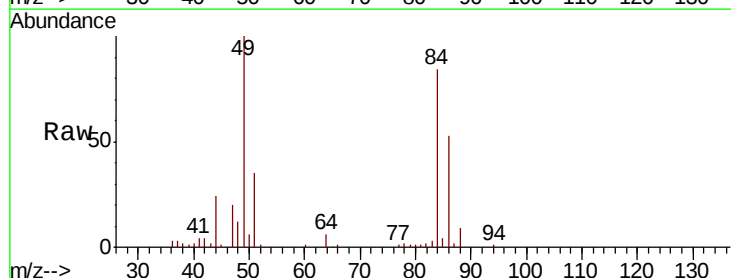
Instrument :
MSVOA_X
ClientSampled :
PB112704TB

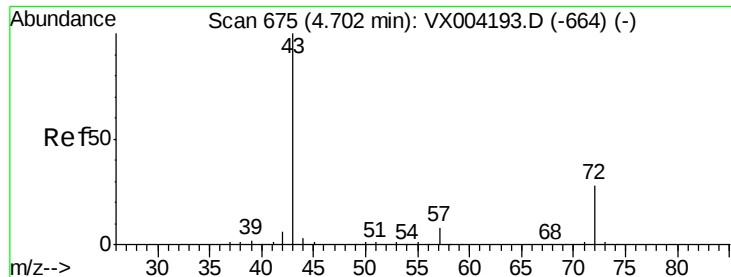
Tot Ion: 43 Resp: 7560
Ion Ratio Lower Upper
43 100
74 25.9 19.4 29.2



#20
Methylene Chloride
Concen: 4.14 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004443.D
Acq: 10 Sep 2018 12:48

Tgt Ion: 84 Resp: 17802
Ion Ratio Lower Upper
84 100
49 118.9 101.2 151.8
51 40.1 29.5 44.3
86 63.1 52.3 78.5





#25

2-Butanone

Concen: Below Cal

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX004443.D

Acq: 10 Sep 2018 12:48

Instrument :

MSVOA_X

ClientSampleId :

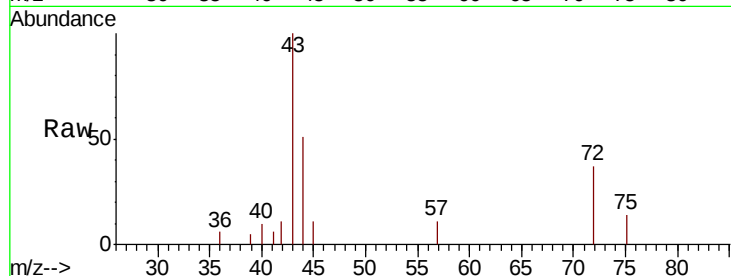
PB112704TB

Tot Ion: 43 Resp: 3599

Ion Ratio Lower Upper

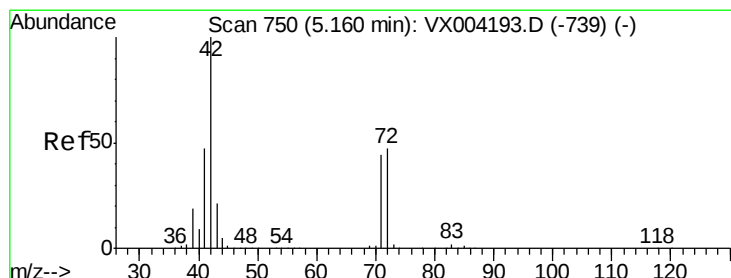
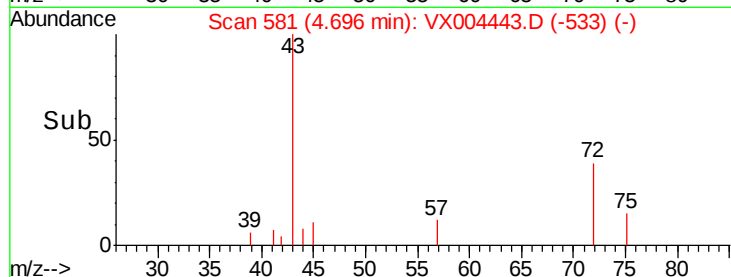
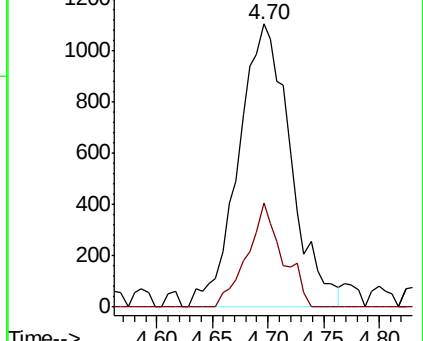
43 100

72 36.8 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.94 ug/l

RT: 5.15 min Scan# 655

Delta R.T. -0.01 min

Lab File: VX004443.D

Acq: 10 Sep 2018 12:48

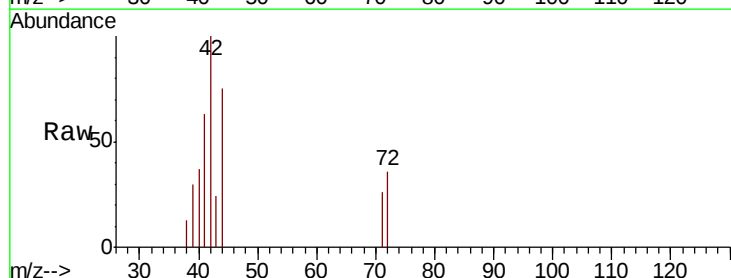
Tgt Ion: 42 Resp: 1801

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

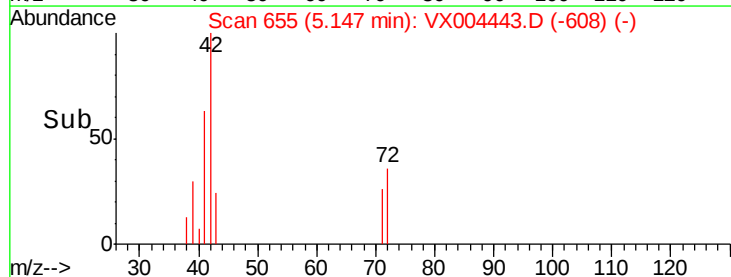
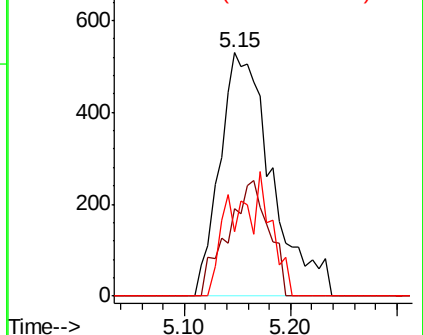
71 12.0 34.5 51.7#

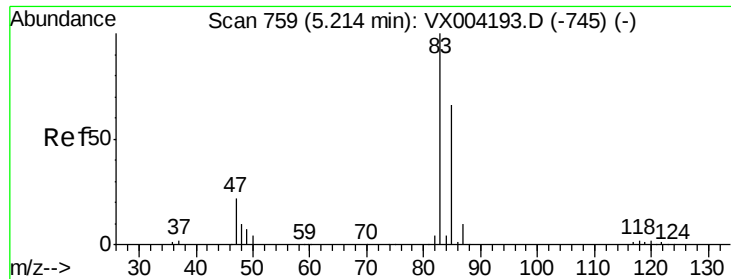


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

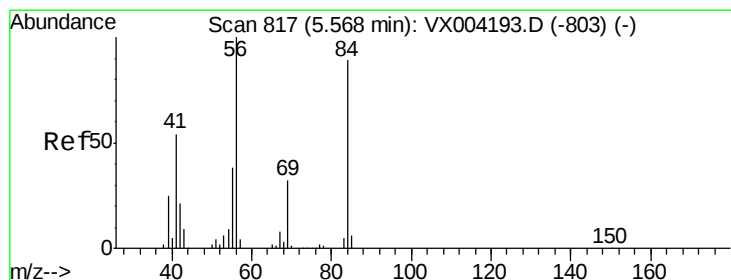
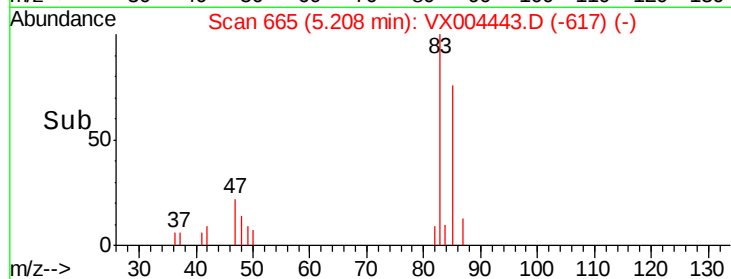
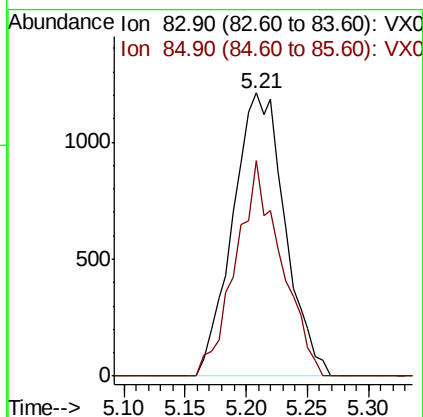
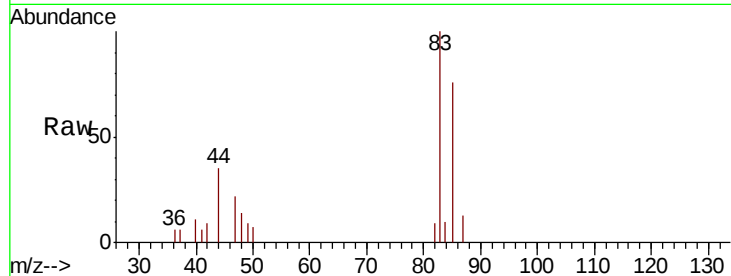




#30
Chloroform
Concen: 0.49 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.01 min
Lab File: VX004443.D
Acq: 10 Sep 2018 12:48

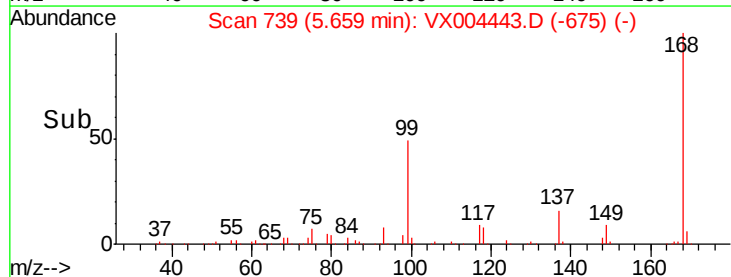
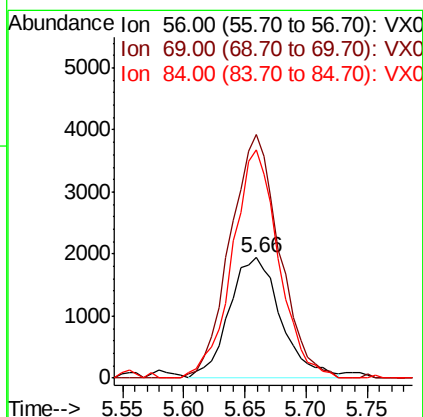
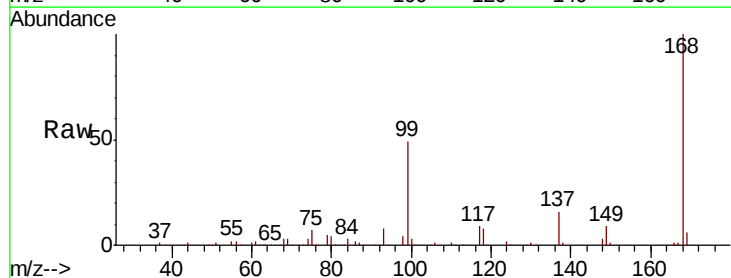
Instrument :
MSVOA_X
ClientSampled :
PB112704TB

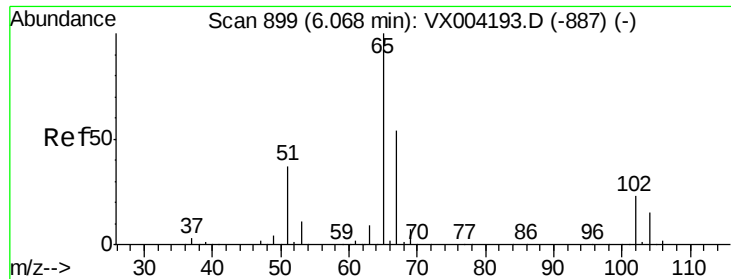
Tot Ion: 83 Resp: 3586
Ion Ratio Lower Upper
83 100
85 76.3 52.6 79.0



#31
Cyclohexane
Concen: 0.91 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004443.D
Acq: 10 Sep 2018 12:48

Tgt Ion: 56 Resp: 5726
Ion Ratio Lower Upper
56 100
69 201.9 25.4 38.2#
84 189.0 71.4 107.2#





#33

1,2-Dichloroethane-d4

Concen: 53.71 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX004443.D

Acq: 10 Sep 2018 12:48

Instrument :

MSVOA_X

ClientSampled :

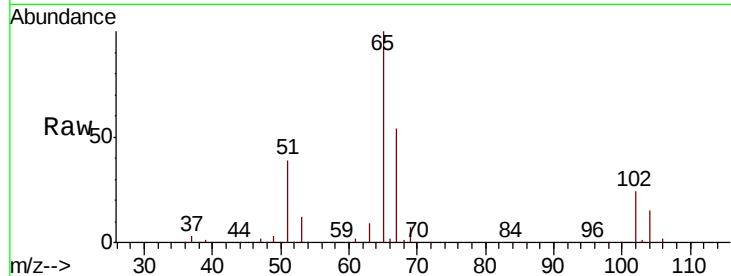
PB112704TB

Tot Ion: 65 Resp: 240071

Ion Ratio Lower Upper

65 100

67 53.4 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

100000

80000

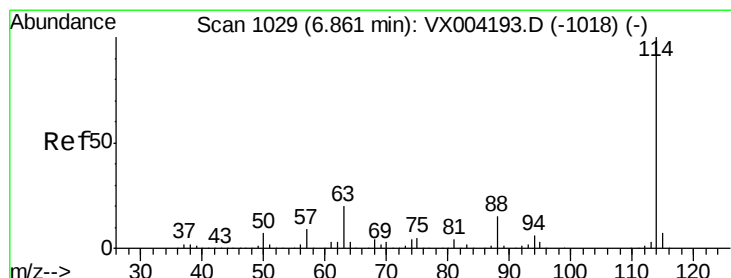
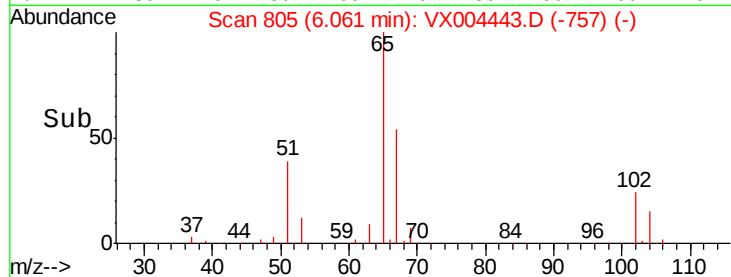
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX004443.D

Acq: 10 Sep 2018 12:48

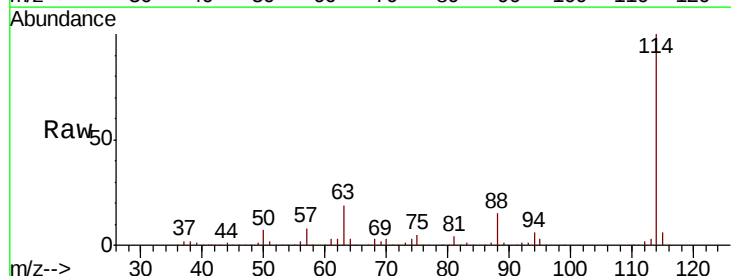
Tgt Ion: 114 Resp: 565034

Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.0

88 15.1 0.0 30.4



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

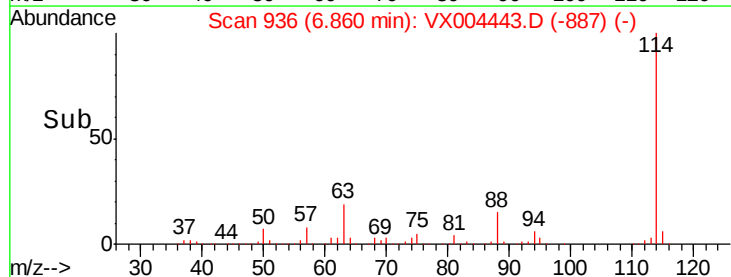
300000

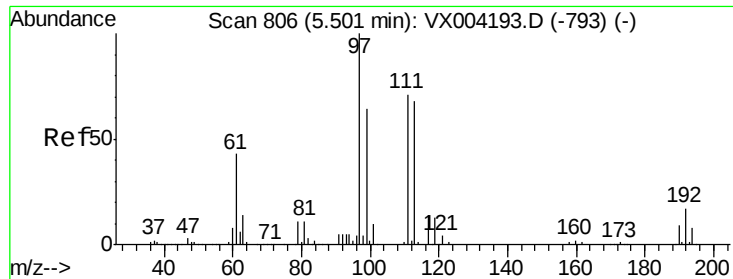
200000

100000

0

Time--> 6.70 6.80 6.90 7.00

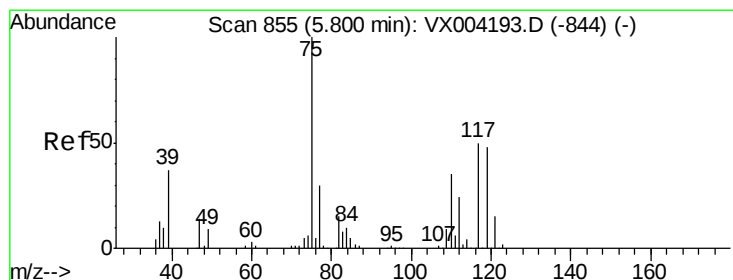
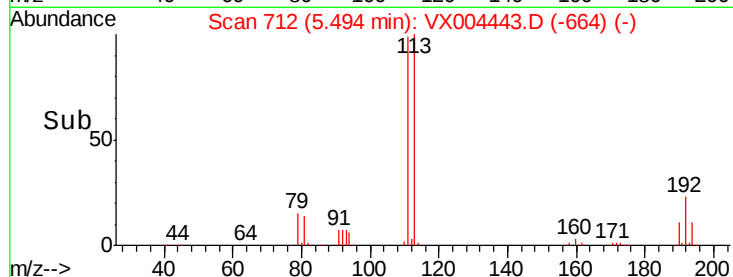
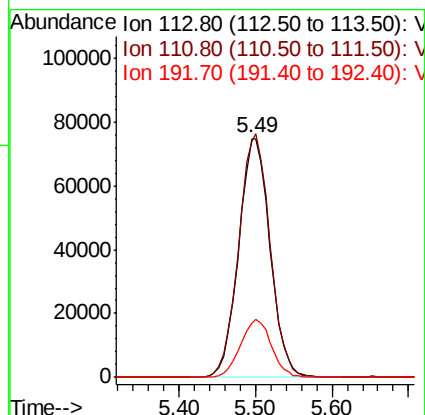
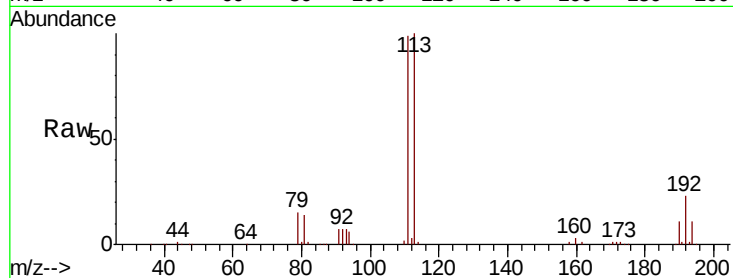




#35
 Dibromofluoromethane
 Concen: 50.54 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX004443.D
 Acq: 10 Sep 2018 12:48

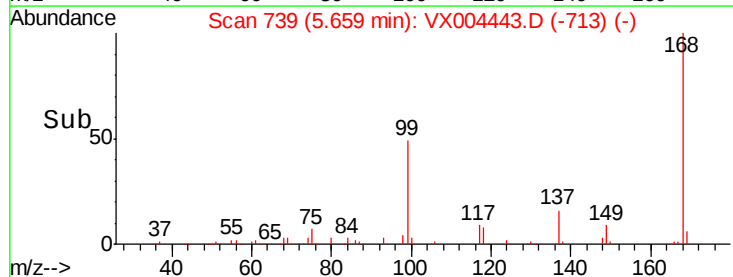
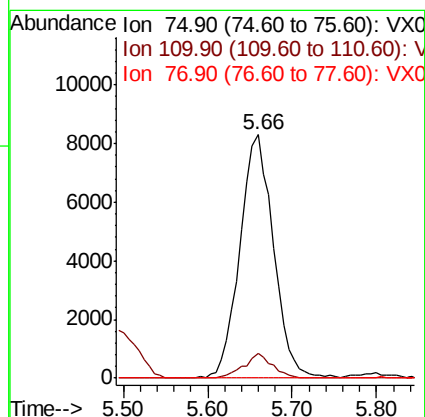
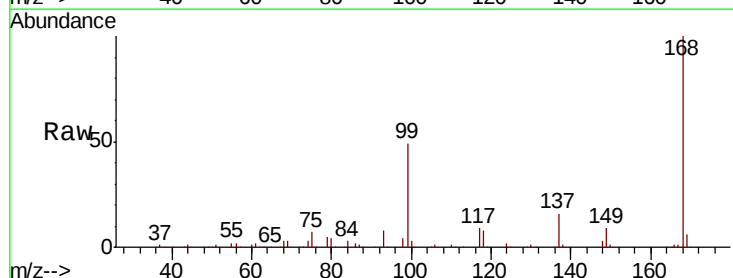
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704TB

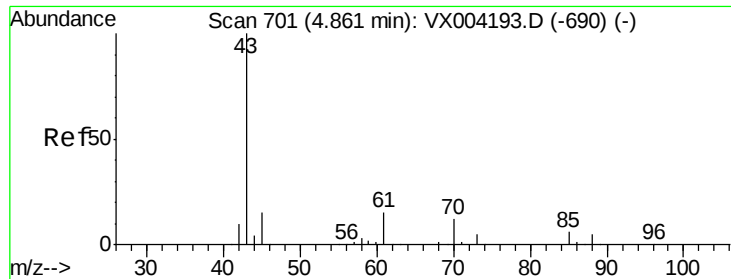
Tot Ion:113 Resp: 212445
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.4 123.6
 192 24.0 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.52 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004443.D
 Acq: 10 Sep 2018 12:48

Tgt Ion: 75 Resp: 22368
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.0 54.0#
 77 0.0 24.6 36.8#

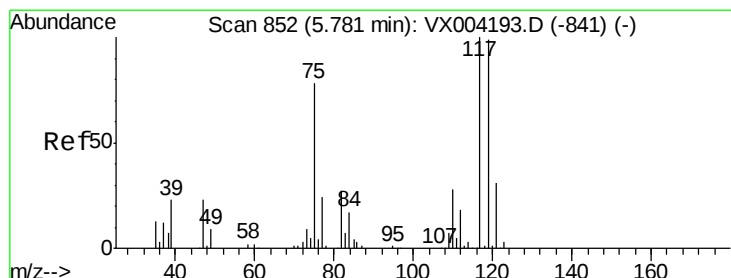
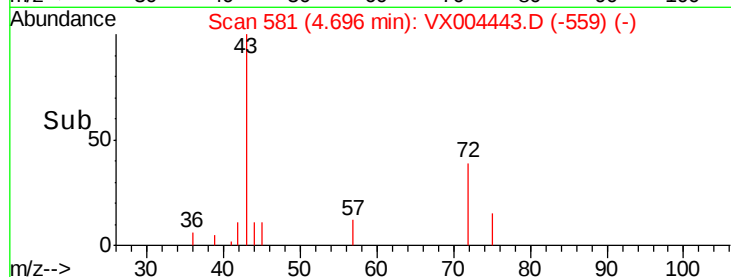
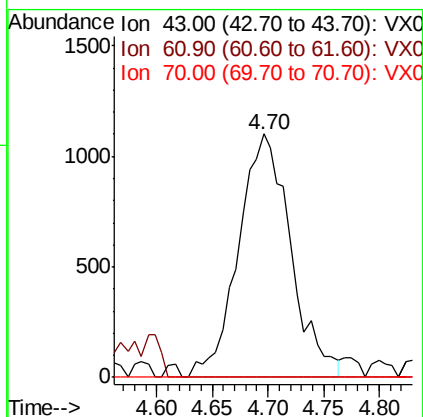
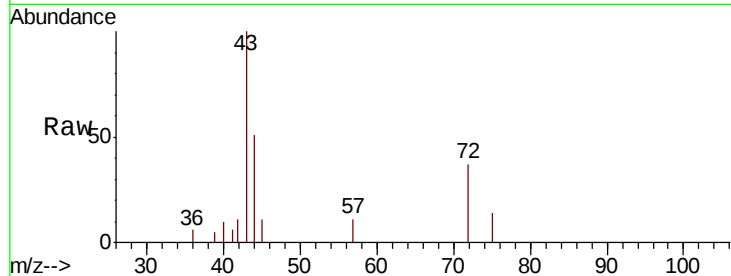




#37
Ethyl Acetate
Concen: 0.58 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.17 min
Lab File: VX004443.D
Acq: 10 Sep 2018 12:48

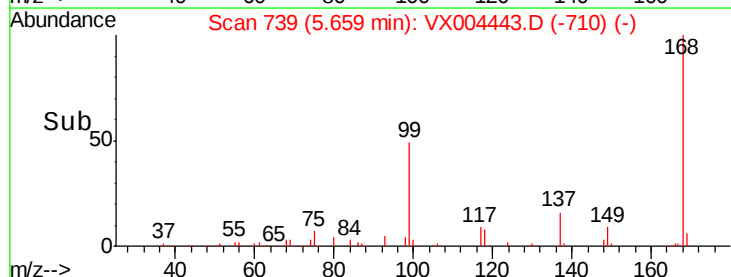
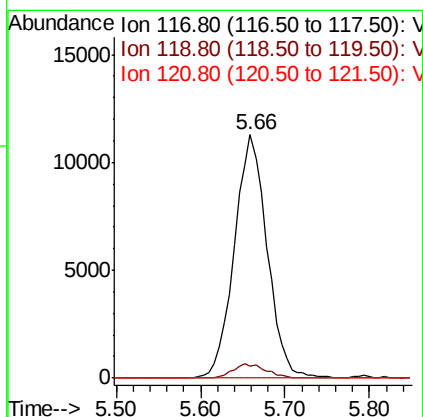
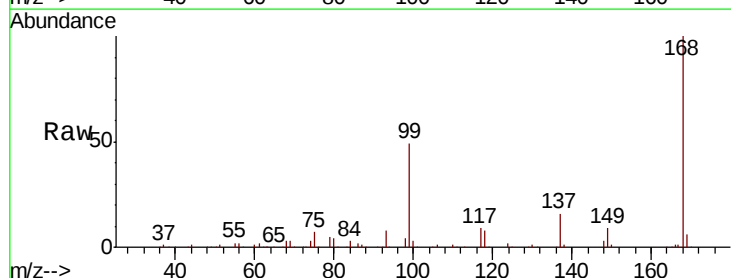
Instrument :
MSVOA_X
ClientSampleId :
PB112704TB

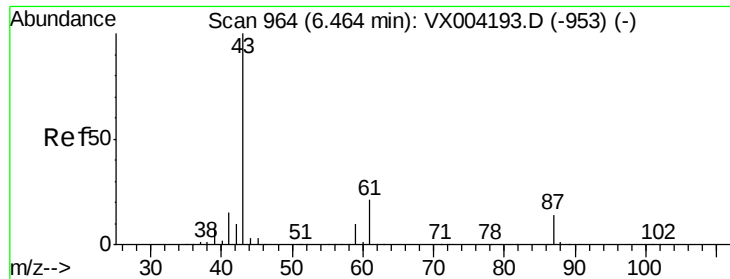
Tot Ion: 43 Resp: 3599
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 9.0 13.6#



#38
Carbon Tetrachloride
Concen: 4.95 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX004443.D
Acq: 10 Sep 2018 12:48

Tgt Ion: 117 Resp: 29555
Ion Ratio Lower Upper
117 100
119 5.1 78.8 118.2#
121 0.0 24.9 37.3#



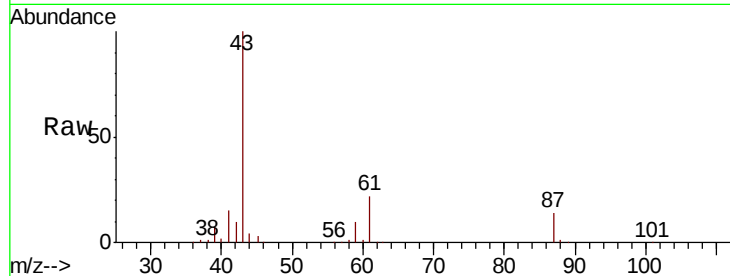


#43

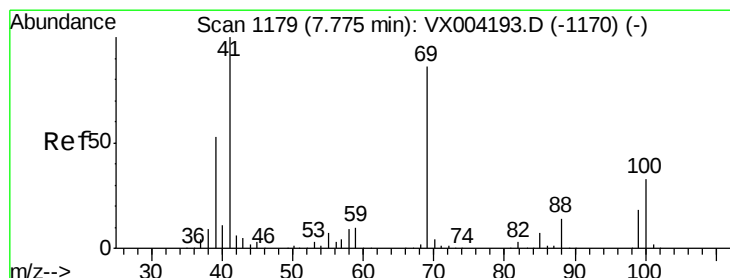
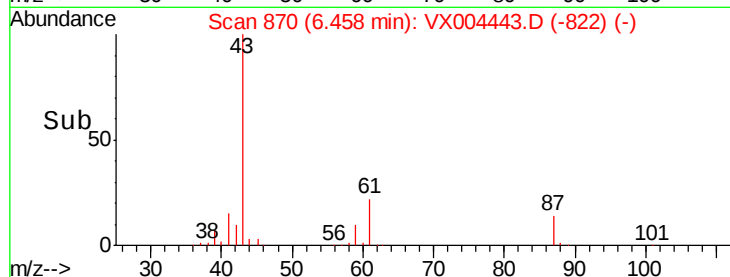
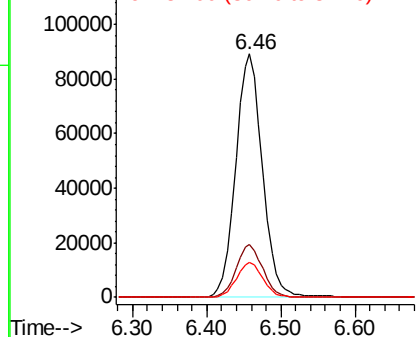
Isopropyl Acetate
 Concen: 23.37 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.01 min
 Lab File: VX004443.D
 Acq: 10 Sep 2018 12:48

Instrument :
 MSVOA_X
 ClientSampleID :
 PB112704TB

Tot Ion: 43 Resp: 224381
 Ion Ratio Lower Upper
 43 100
 61 21.5 17.0 25.4
 87 14.1 11.4 17.2



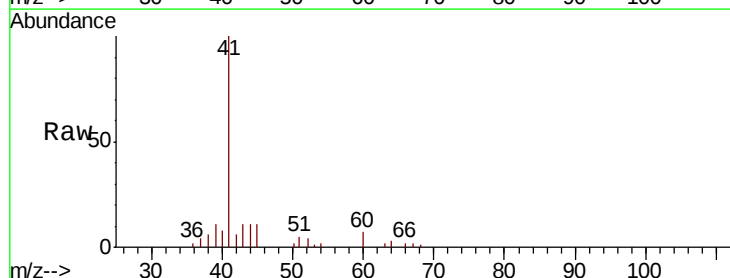
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



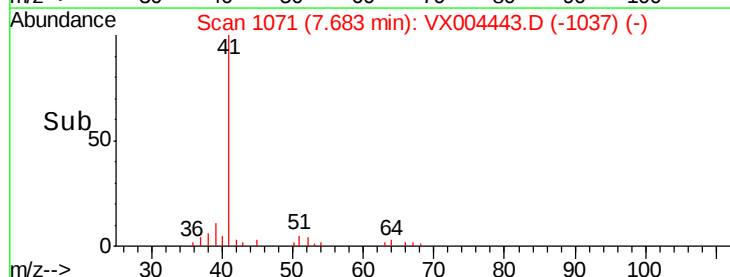
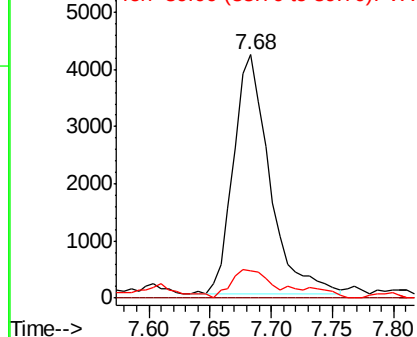
#48

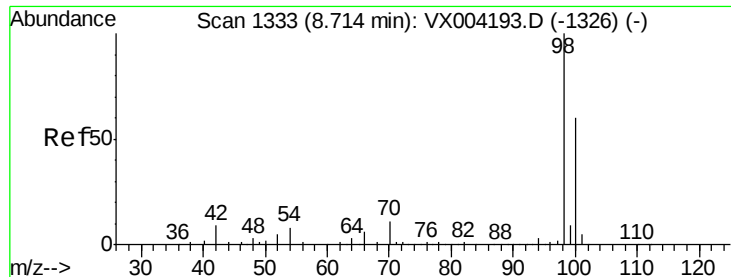
Methyl methacrylate
 Concen: 1.66 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX004443.D
 Acq: 10 Sep 2018 12:48

Tgt Ion: 41 Resp: 8543
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.2 105.4#
 39 14.3 42.7 64.1#



Abundance Ion 41.00 (40.70 to 41.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 51.12 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004443.D

Acq: 10 Sep 2018 12:48

Instrument :

MSVOA_X

ClientSampleId :

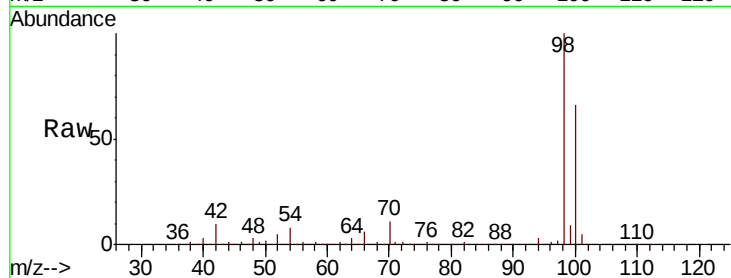
PB112704TB

Tot Ion: 98 Resp: 811095

Ion Ratio Lower Upper

98 100

100 66.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

600000

500000

400000

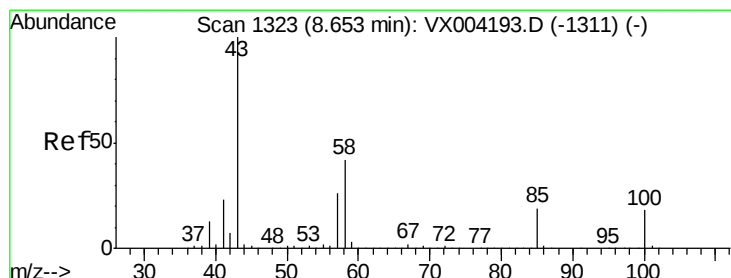
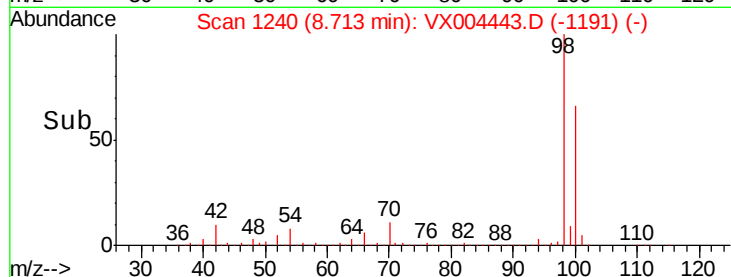
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.47 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.04 min

Lab File: VX004443.D

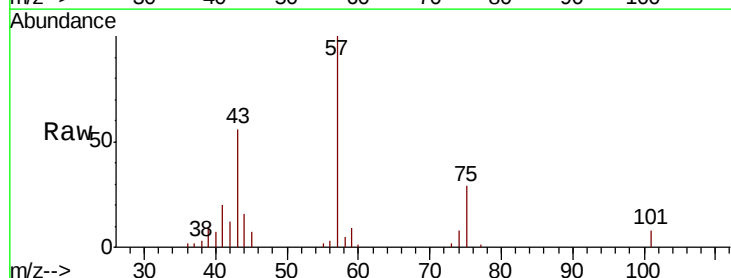
Acq: 10 Sep 2018 12:48

Tgt Ion: 43 Resp: 3312

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

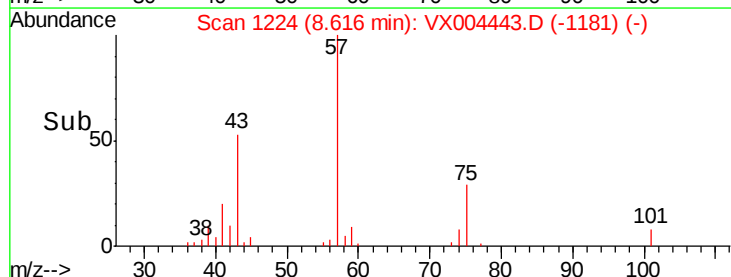
1500

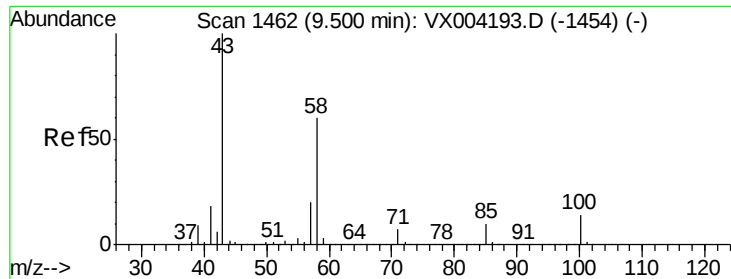
1000

500

0

Time-->

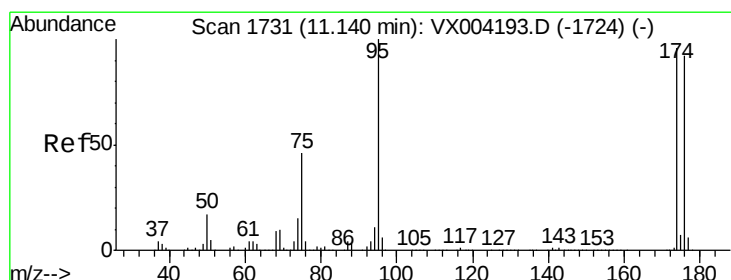
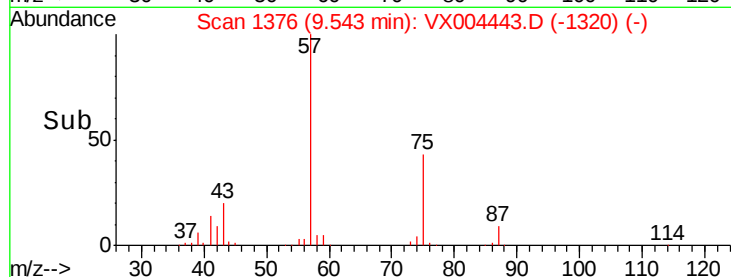
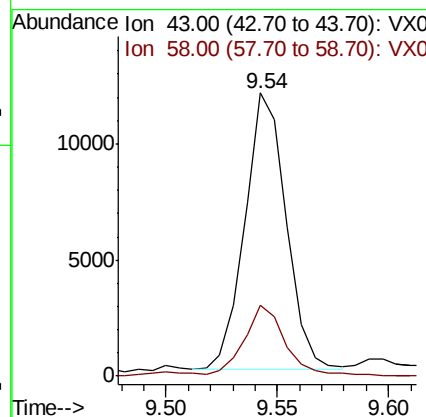
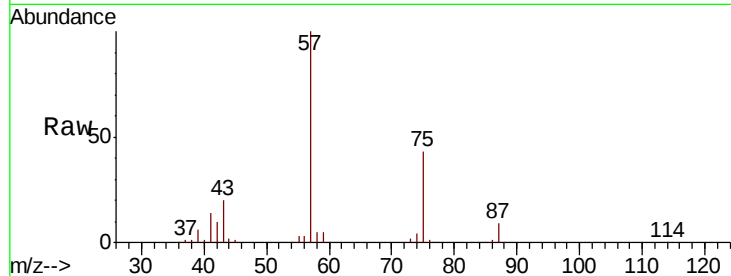




#59
2-Hexanone
Concen: 2.87 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.04 min
Lab File: VX004443.D
Acq: 10 Sep 2018 12:48

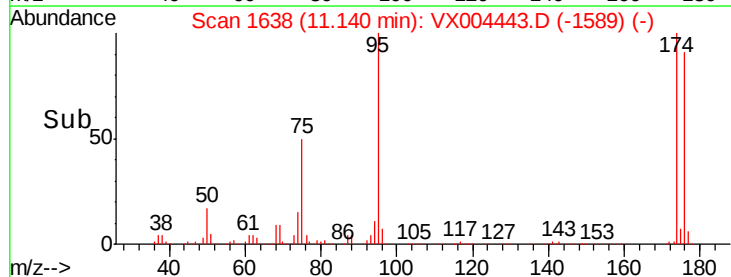
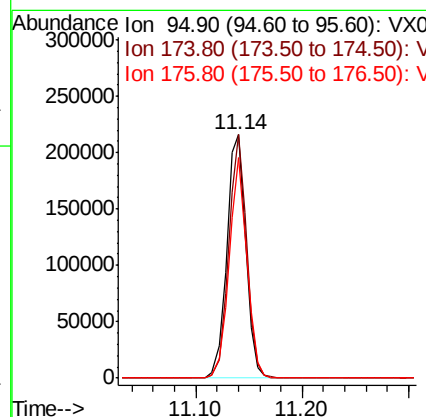
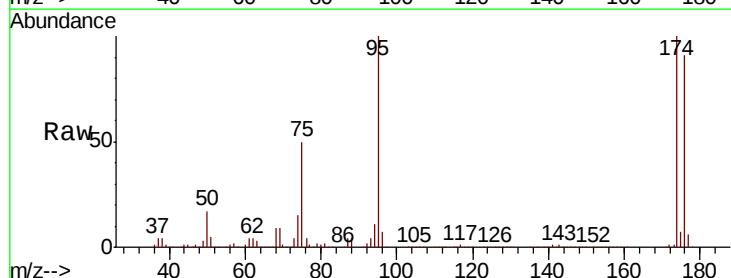
Instrument :
MSVOA_X
ClientSampled :
PB112704TB

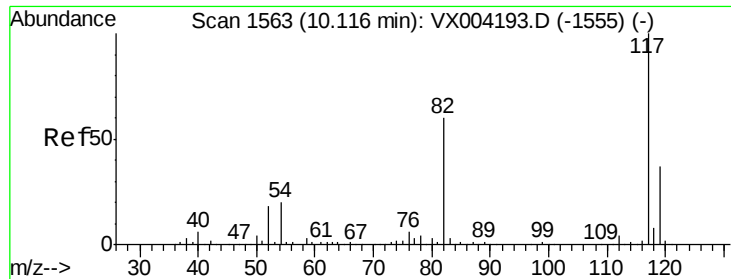
Tot Ion: 43 Resp: 15273
Ion Ratio Lower Upper
43 100
58 25.7 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 45.38 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004443.D
Acq: 10 Sep 2018 12:48

Tgt Ion: 95 Resp: 268662
Ion Ratio Lower Upper
95 100
174 94.7 0.0 185.2
176 85.1 0.0 178.6

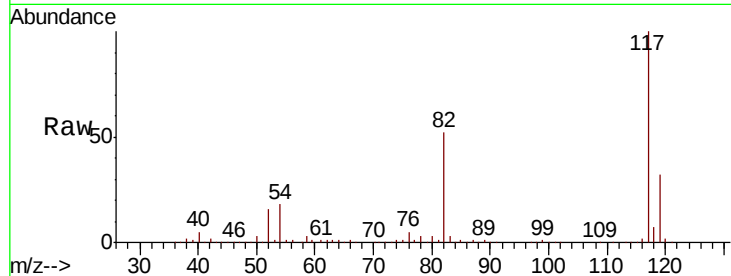




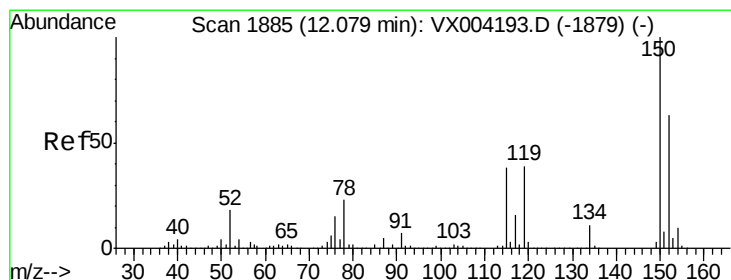
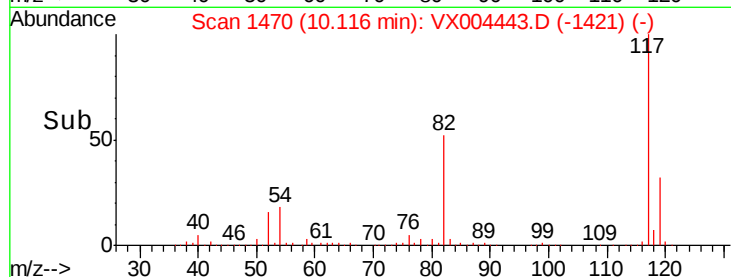
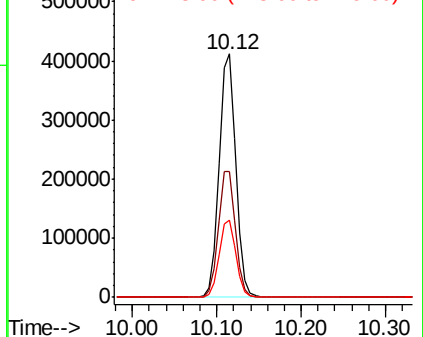
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004443.D
Acq: 10 Sep 2018 12:48

Instrument :
MSVOA_X
ClientSampled :
PB112704TB

Tot Ion:117 Resp: 566041
Ion Ratio Lower Upper
117 100
82 51.6 47.8 71.6
119 31.8 29.3 43.9

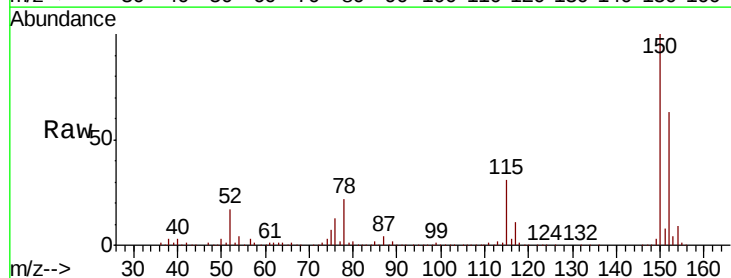


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

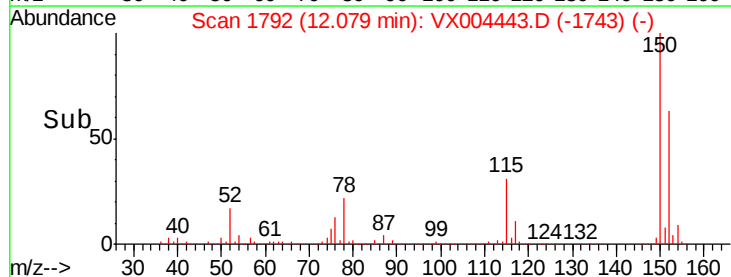
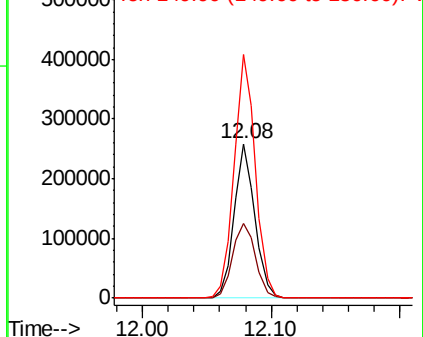


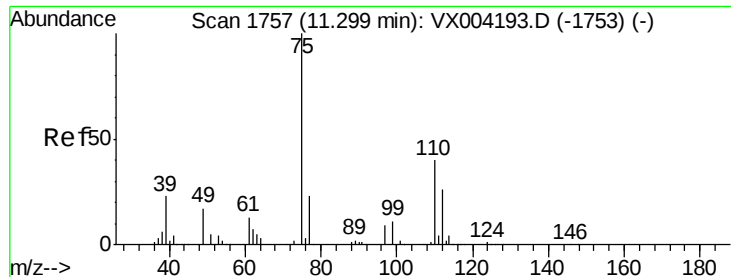
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004443.D
Acq: 10 Sep 2018 12:48

Tgt Ion:152 Resp: 290298
Ion Ratio Lower Upper
152 100
115 53.9 39.0 117.0
150 162.0 0.0 351.0



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

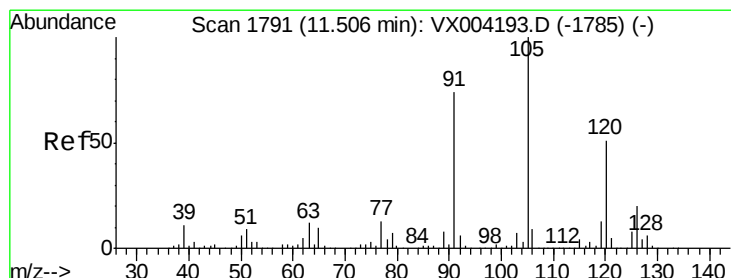
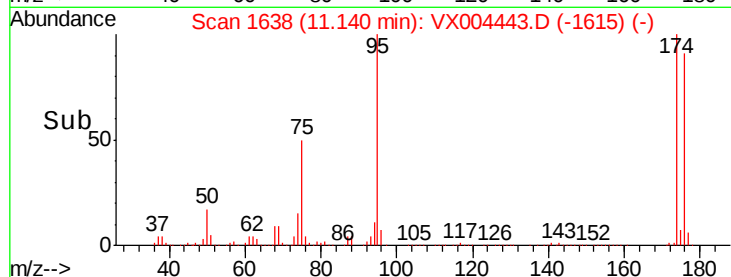
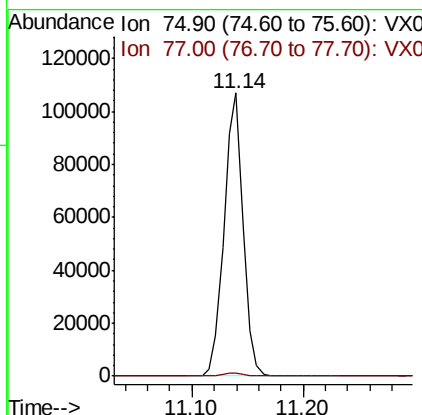
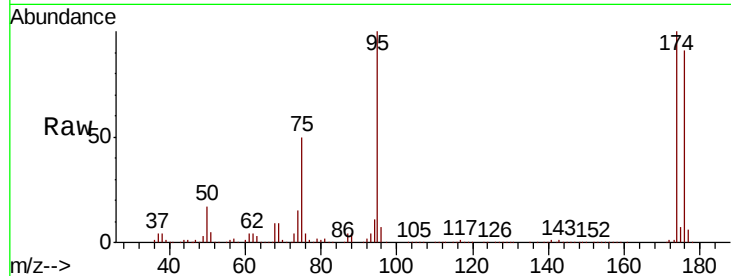




#76
 1,2,3-Trichloropropane
 Concen: 21.28 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX004443.D
 Acq: 10 Sep 2018 12:48

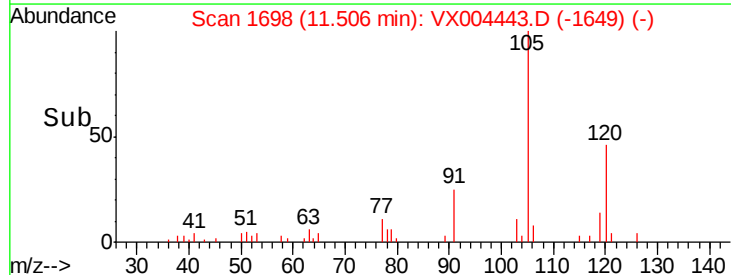
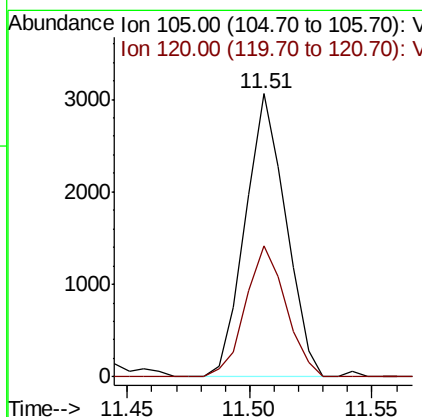
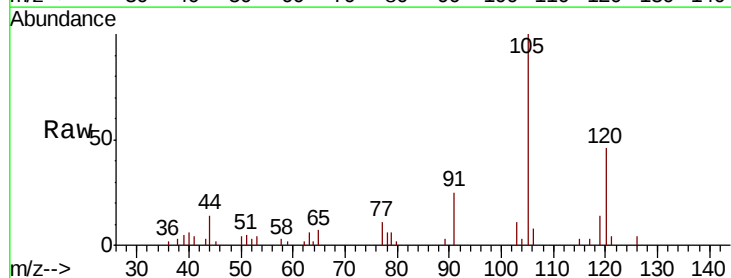
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704TB

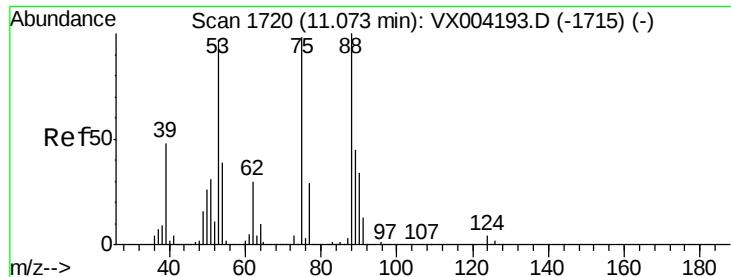
Tot Ion: 75 Resp: 125644
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.2 60.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.22 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX004443.D
 Acq: 10 Sep 2018 12:48

Tgt Ion:105 Resp: 3525
 Ion Ratio Lower Upper
 105 100
 120 46.1 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 69.05 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004443.D

Acq: 10 Sep 2018 12:48

Instrument :

MSVOA_X

ClientSampleId :

PB112704TB

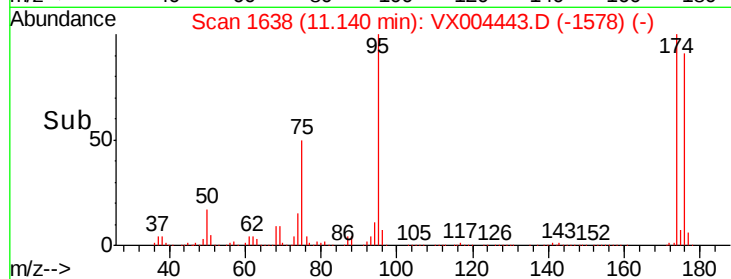
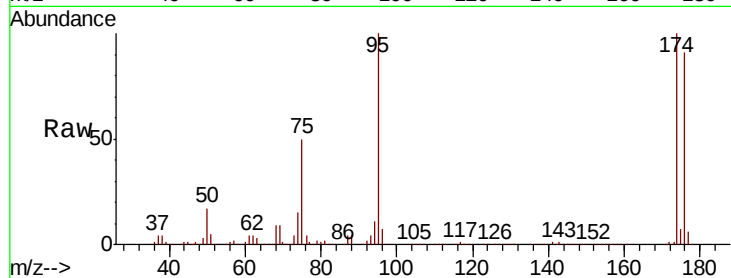
Tot Ion: 75 Resp: 125644

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



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

