

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO042020\
 Data File : VX015776.D
 Acq On : 20 Apr 2020 19:13
 Operator : JC/SP
 Sample : L2342-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 21 08:00:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	1029777	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	1632290	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1557907	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	881993	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	624576	43.00	ug/l	0.00
Spiked Amount			Recovery	=	86.00%	
35) Dibromofluoromethane	5.47	113	500802	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
50) Toluene-d8	8.70	98	1923172	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
62) 4-Bromofluorobenzene	11.12	95	823926	52.77	ug/l	0.00
Spiked Amount			Recovery	=	105.54%	

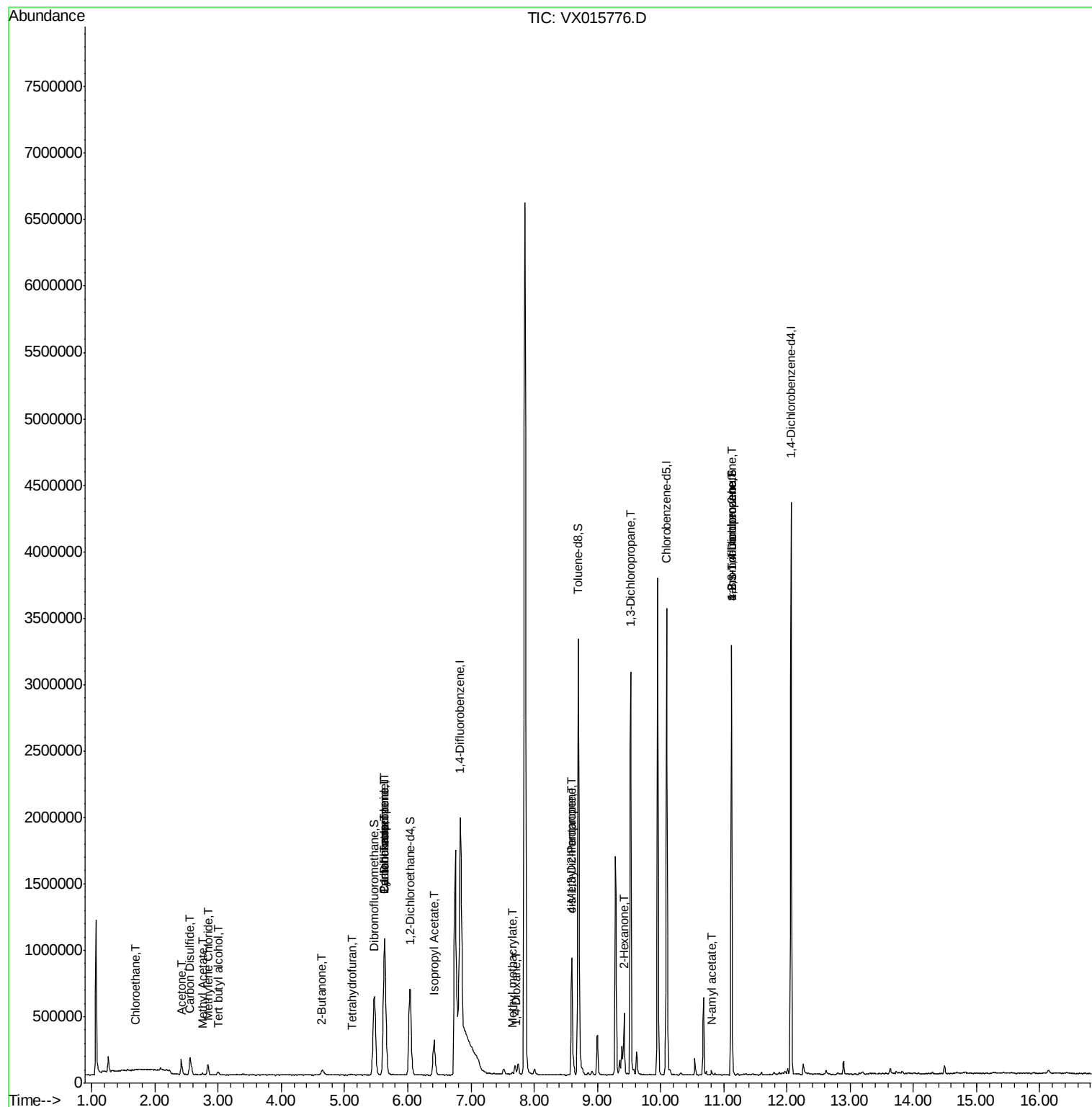
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.61	94	996	Below Cal	#	14
6) Chloroethane	1.70	64	1327	0.202	ug/l #	43
11) Tert butyl alcohol	3.00	59	17271	4.968	ug/l #	85
16) Acetone	2.42	43	122639	19.654	ug/l	99
17) Carbon Disulfide	2.55	76	151342	5.103	ug/l	99
18) Methyl Acetate	2.75	43	14289	0.897	ug/l #	84
20) Methylene Chloride	2.84	84	33445	2.870	ug/l	91
25) 2-Butanone	4.65	43	49996	4.982	ug/l #	90
29) Tetrahydrofuran	5.11	42	7061	1.095	ug/l #	89
31) Cyclohexane	5.63	56	19963	1.086	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	71275	4.739	ug/l #	51
38) Carbon Tetrachloride	5.64	117	97788	6.003	ug/l #	14
43) Isopropyl Acetate	6.42	43	375349	11.354	ug/l	99
48) Methyl methacrylate	7.65	41	21541	1.305	ug/l #	19
49) 1,4-Dioxane	7.72	88	715	2.321	ug/l #	20
51) 4-Methyl-2-Pentanone	8.59	43	357622	19.089	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	141693	7.040	ug/l #	50
57) 1,3-Dichloropropane	9.53	76	26339	1.314	ug/l #	45
59) 2-Hexanone	9.42	43	321855	22.755	ug/l #	27
74) N-amyl acetate	10.81	43	20652	0.643	ug/l #	54
76) 1,2,3-Trichloropropane	11.12	75	409219	22.562	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	409219	54.137	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. 0.00 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

Instrument :

MSVOA_X

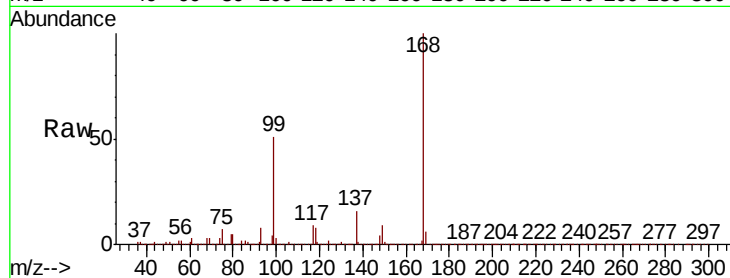
ClientSampleId :

Tot Ion:168 Resp: 1029777

Ion Ratio Lower Upper

168 100

99 50.6 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

400000

300000

200000

100000

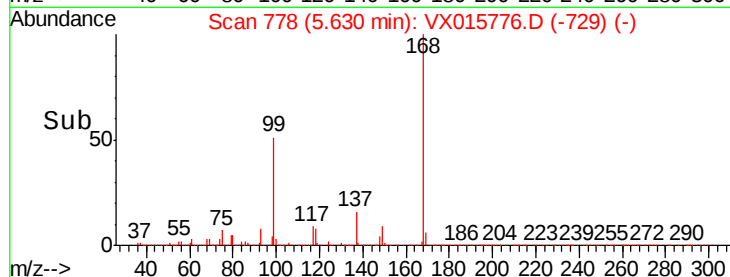
0

5.50

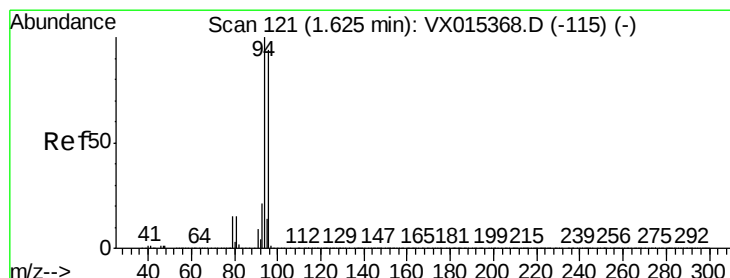
5.60

5.70

5.80



Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 119

Delta R.T. -0.01 min

Lab File: VX015776.D

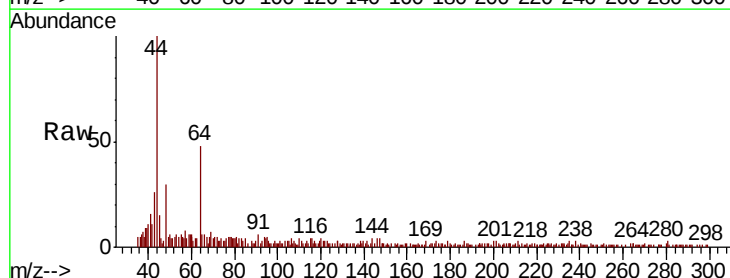
Acq: 20 Apr 2020 19:13

Tgt Ion: 94 Resp: 996

Ion Ratio Lower Upper

94 100

96 10.4 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.61

1000

800

600

400

200

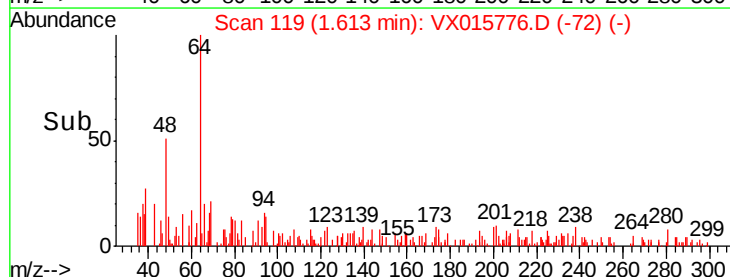
0

1.58

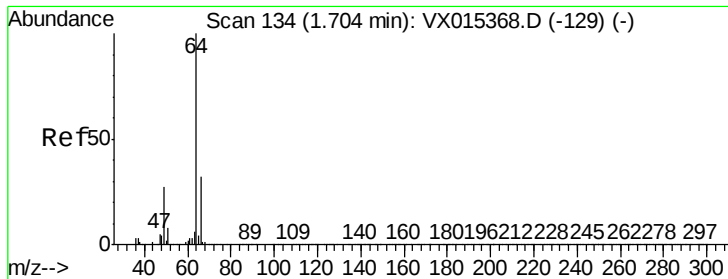
1.60

1.62

1.64



Time-->



#6

Chloroethane

Concen: 0.202 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

Instrument :

MSVOA_X

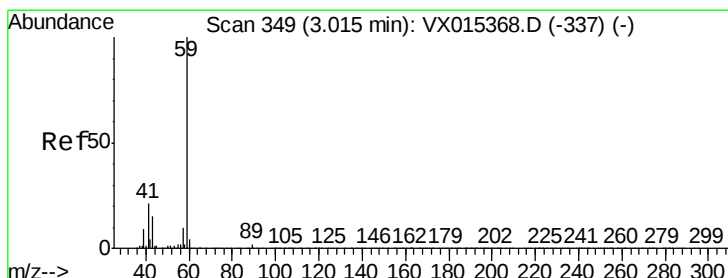
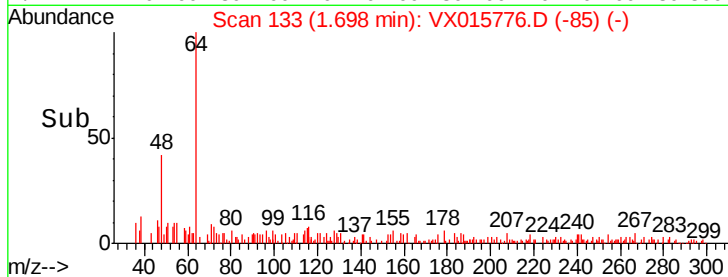
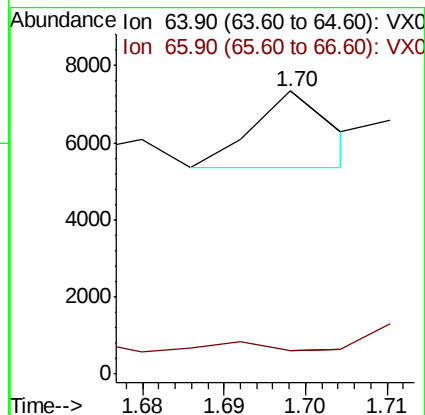
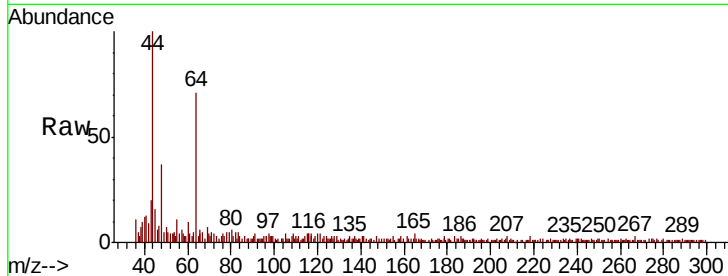
ClientSampleId :

Tot Ion: 64 Resp: 1327

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.2#



#11

Tert butyl alcohol

Concen: 4.968 ug/l

RT: 3.00 min Scan# 346

Delta R.T. -0.02 min

Lab File: VX015776.D

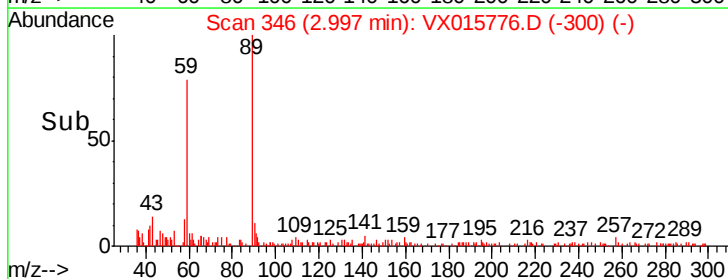
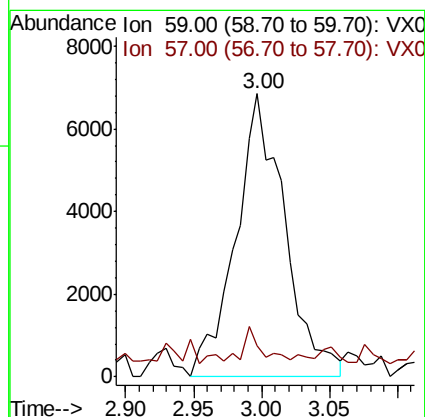
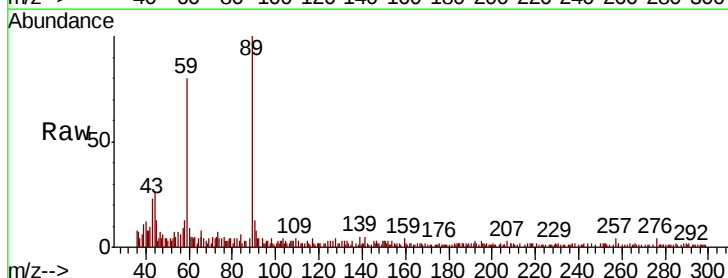
Acq: 20 Apr 2020 19:13

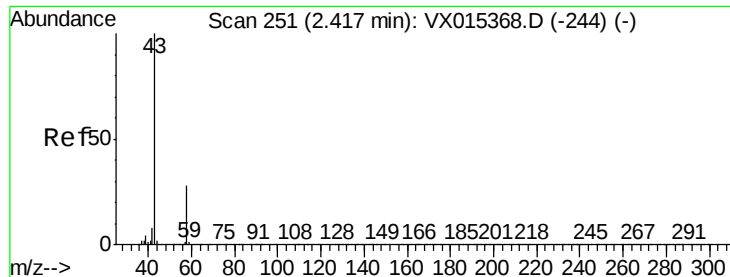
Tgt Ion: 59 Resp: 17271

Ion Ratio Lower Upper

59 100

57 4.4 8.1 12.1#

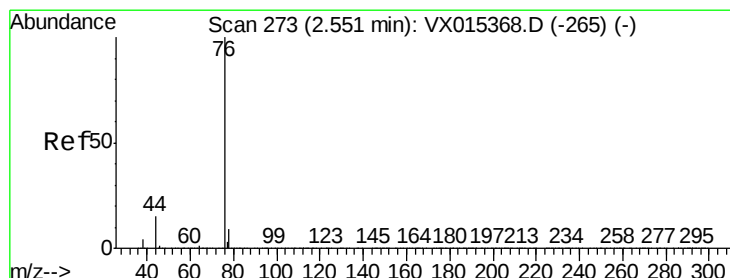
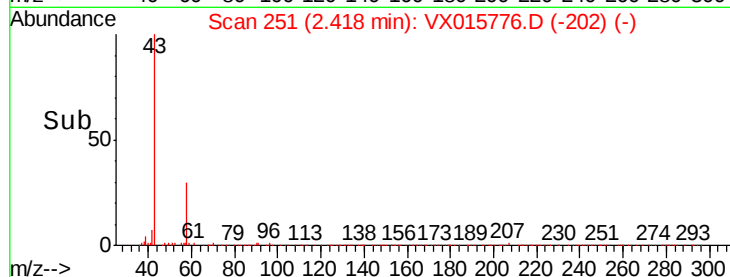
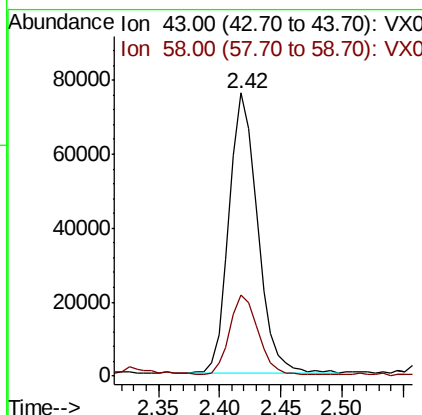
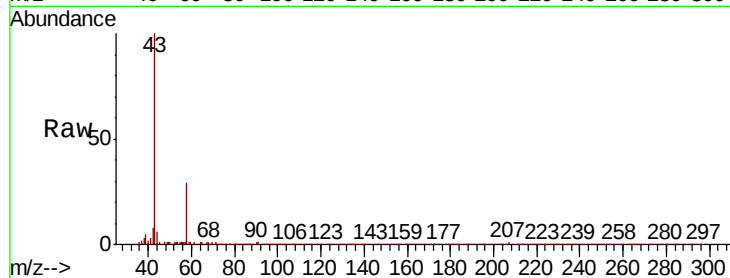




#16
Acetone
Concen: 19.654 ug/l
RT: 2.42 min Scan# 251
Delta R.T. 0.00 min
Lab File: VX015776.D
Acq: 20 Apr 2020 19:13

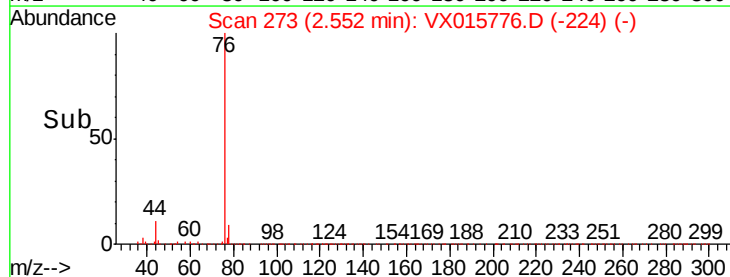
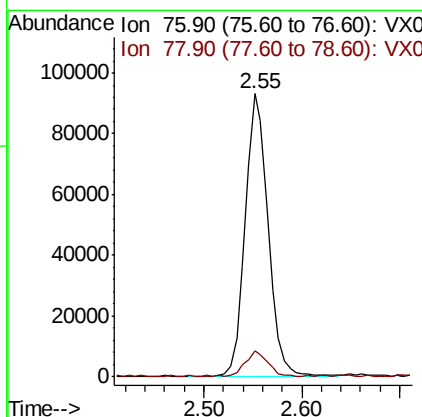
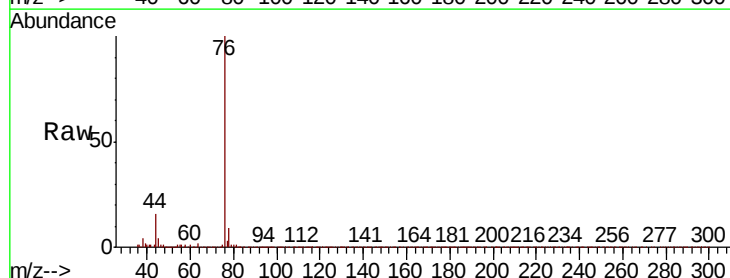
Instrument :
MSVOA_X
ClientSampled :

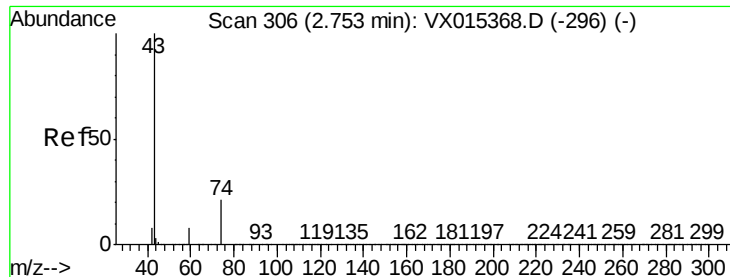
Tot Ion: 43 Resp: 122639
Ion Ratio Lower Upper
43 100
58 28.3 22.1 33.1



#17
Carbon Disulfide
Concen: 5.103 ug/l
RT: 2.55 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX015776.D
Acq: 20 Apr 2020 19:13

Tgt Ion: 76 Resp: 151342
Ion Ratio Lower Upper
76 100
78 8.6 7.1 10.7

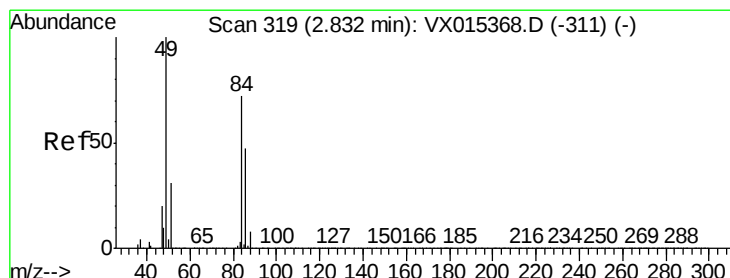
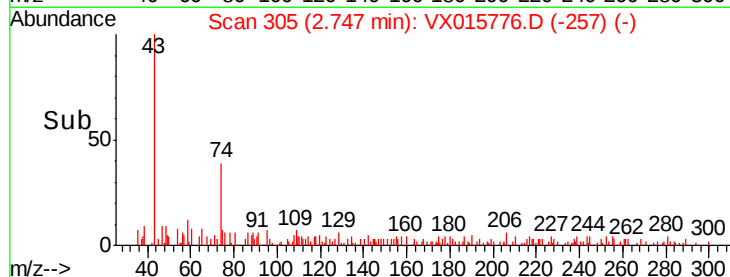
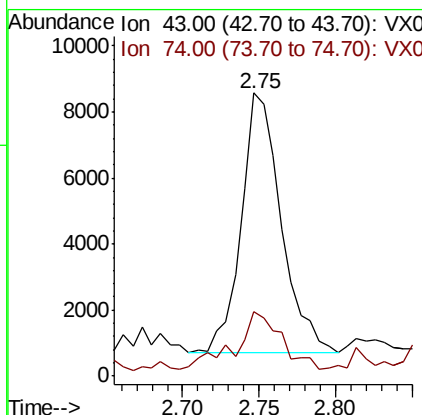
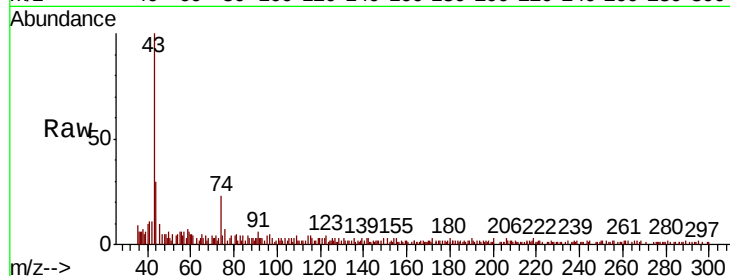




#18
Methyl Acetate
Concen: 0.897 ug/l
RT: 2.75 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX015776.D
Acq: 20 Apr 2020 19:13

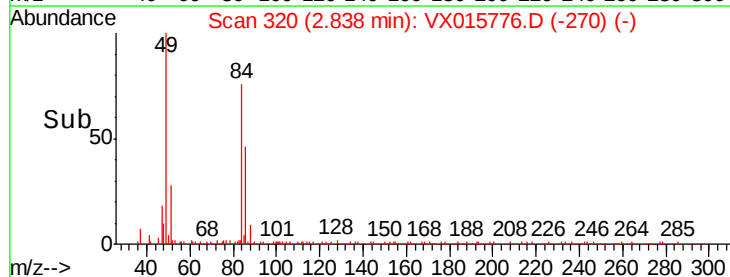
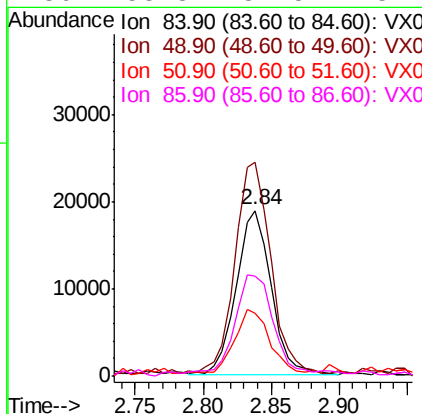
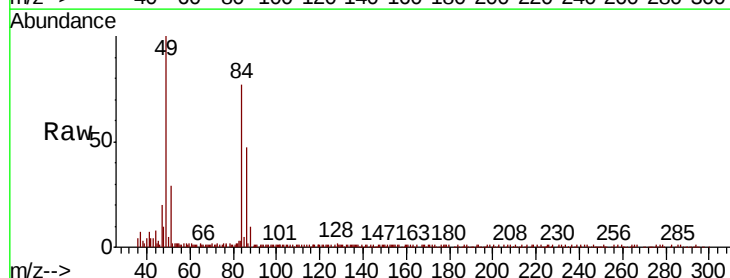
Instrument :
MSVOA_X
ClientSampleId :

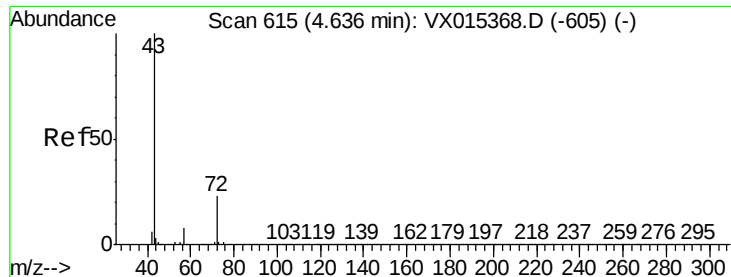
Tot Ion: 43 Resp: 14289
Ion Ratio Lower Upper
43 100
74 28.1 16.5 24.7#



#20
Methylene Chloride
Concen: 2.870 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015776.D
Acq: 20 Apr 2020 19:13

Tgt Ion: 84 Resp: 33445
Ion Ratio Lower Upper
84 100
49 127.5 111.3 166.9
51 35.9 34.0 51.0
86 58.8 52.5 78.7





#25

2-Butanone

Concen: 4.982 ug/l

RT: 4.65 min Scan# 617

Delta R.T. 0.01 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

Instrument :

MSVOA_X

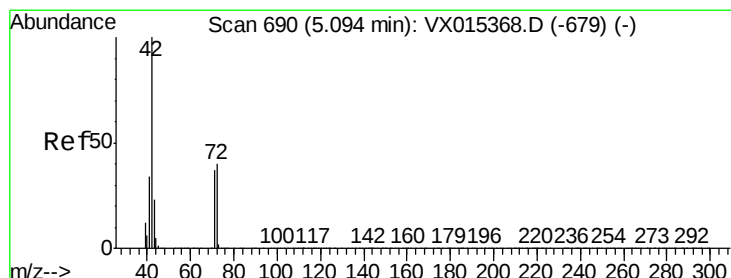
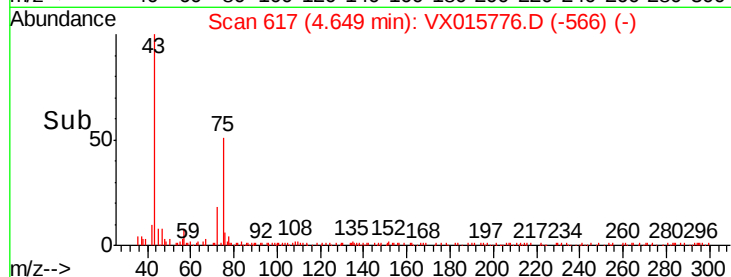
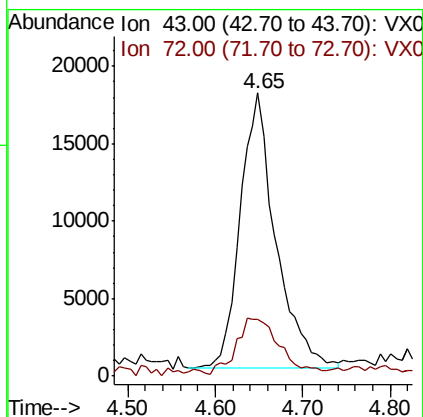
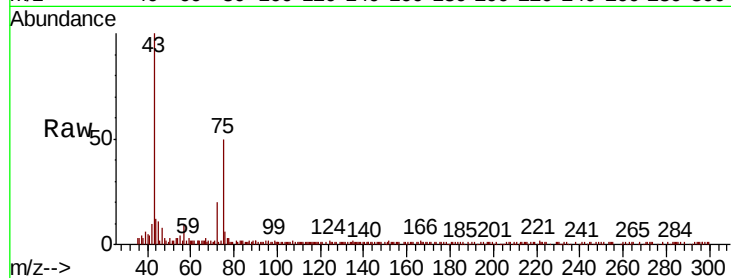
ClientSampled :

Tot Ion: 43 Resp: 49996

Ion Ratio Lower Upper

43 100

72 18.7 19.0 28.4#



#29

Tetrahydrofuran

Concen: 1.095 ug/l

RT: 5.11 min Scan# 692

Delta R.T. 0.01 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

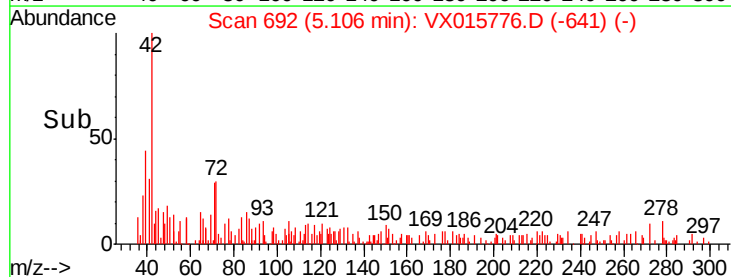
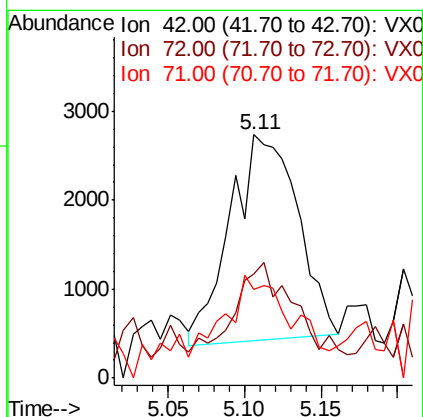
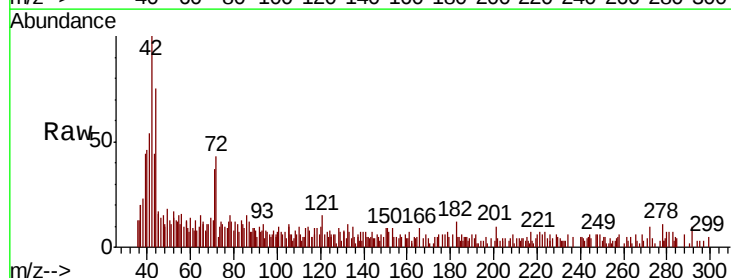
Tgt Ion: 42 Resp: 7061

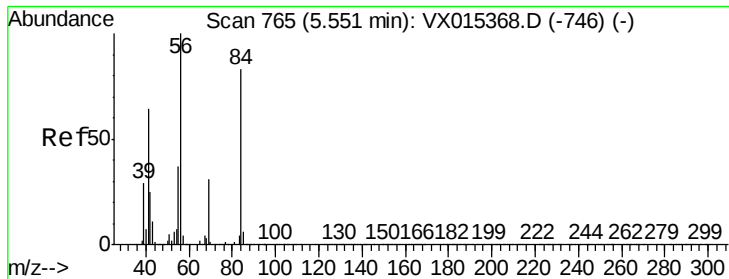
Ion Ratio Lower Upper

42 100

72 37.3 31.7 47.5

71 48.6 29.6 44.4#

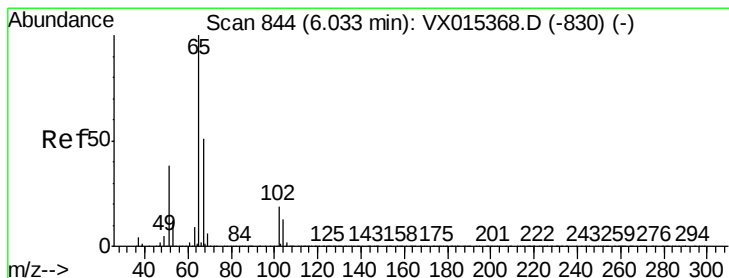
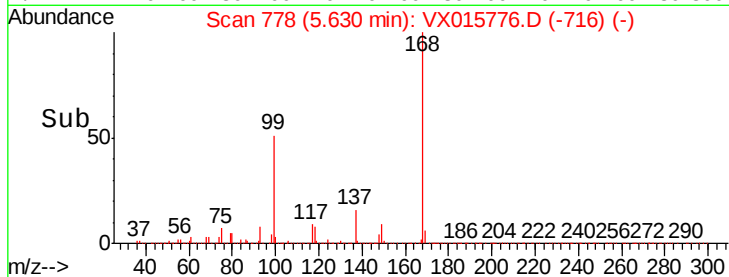
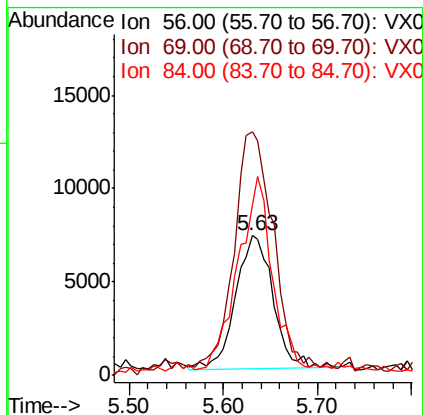
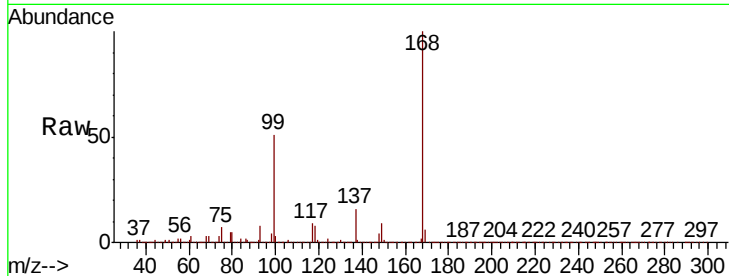




#31
Cyclohexane
Concen: 1.086 ug/l
RT: 5.63 min Scan# 778
Delta R.T. 0.08 min
Lab File: VX015776.D
Acq: 20 Apr 2020 19:13

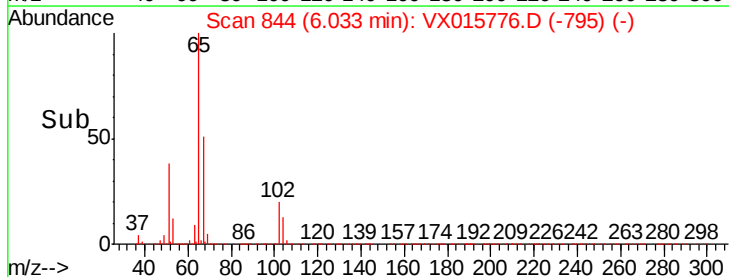
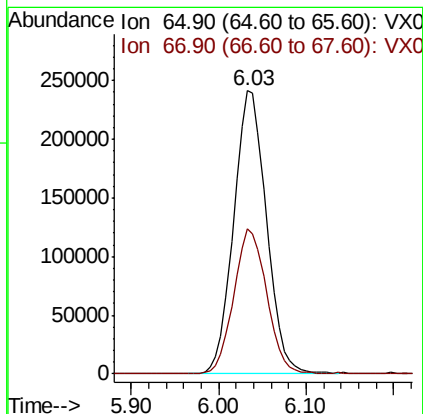
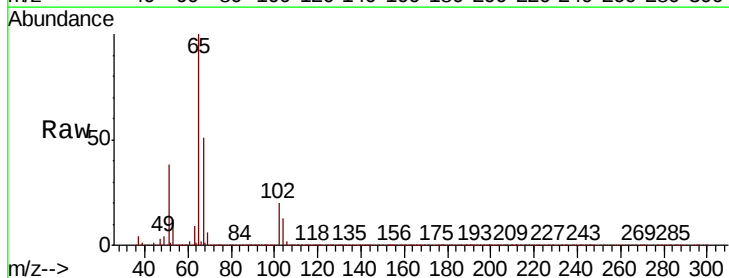
Instrument :
MSVOA_X
ClientSampled :

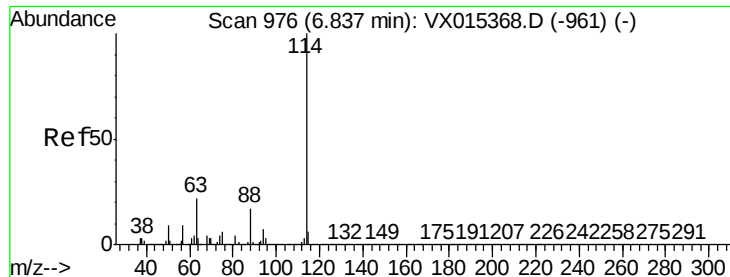
Tot Ion: 56 Resp: 19963
Ion Ratio Lower Upper
56 100
69 179.2 24.6 36.8#
84 120.9 66.1 99.1#



#33
1,2-Dichloroethane-d4
Concen: 43.003 ug/l
RT: 6.03 min Scan# 844
Delta R.T. 0.00 min
Lab File: VX015776.D
Acq: 20 Apr 2020 19:13

Tgt Ion: 65 Resp: 624576
Ion Ratio Lower Upper
65 100
67 51.3 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 975

Delta R.T. -0.01 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

Instrument :

MSVOA_X

ClientSampleId :

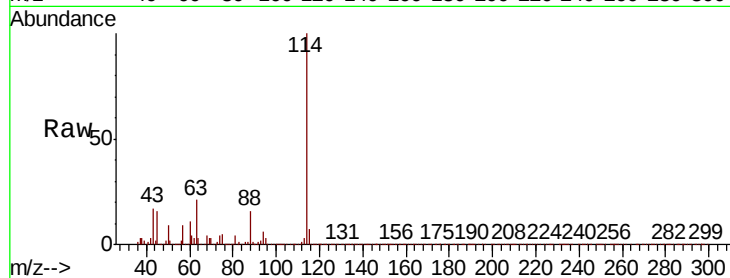
Tot Ion:114 Resp: 1632290

Ion Ratio Lower Upper

114 100

63 21.0 0.0 44.2

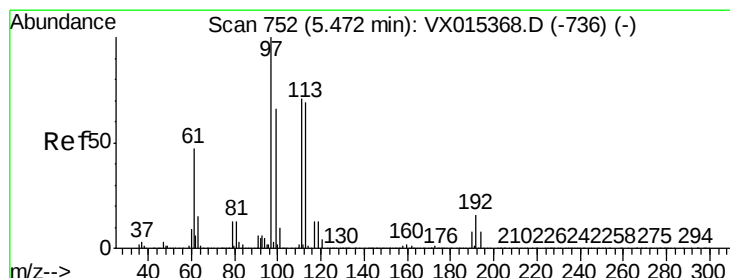
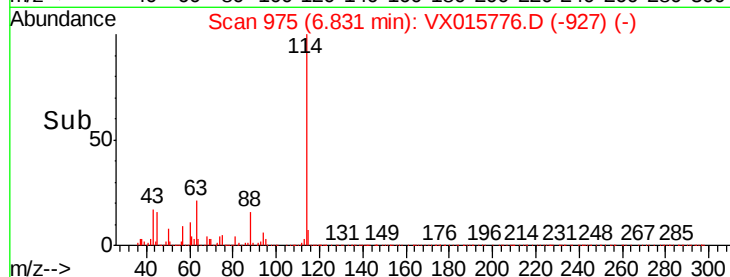
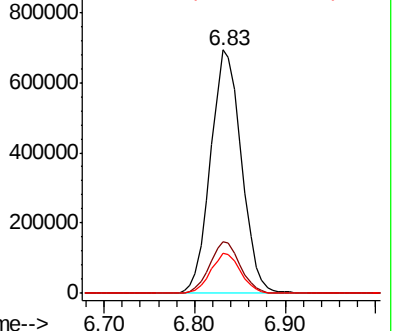
88 16.4 0.0 33.8



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: 47.997 ug/l

RT: 5.47 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

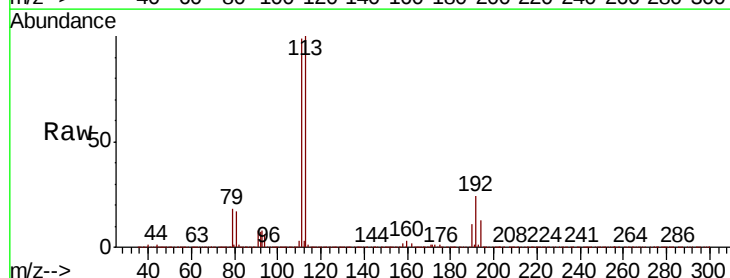
Tgt Ion:113 Resp: 500802

Ion Ratio Lower Upper

113 100

111 102.9 81.5 122.3

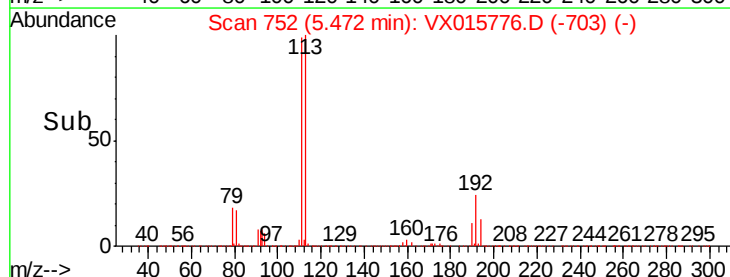
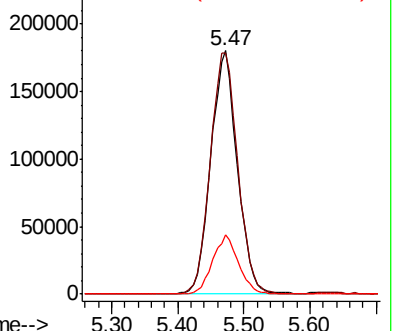
192 23.8 17.8 26.6

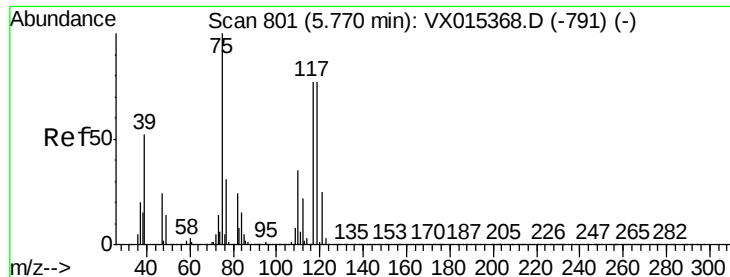


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.739 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.13 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

Instrument :

MSVOA_X

ClientSampleId :

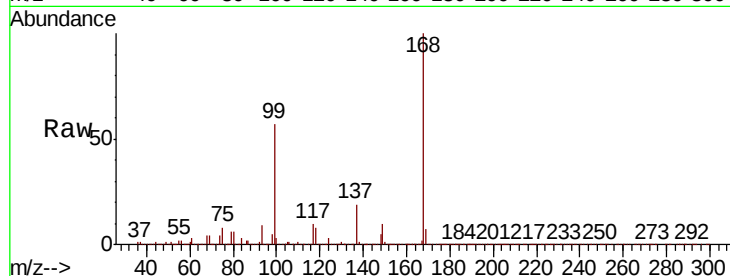
Tot Ion: 75 Resp: 71275

Ion Ratio Lower Upper

75 100

110 9.5 17.1 51.3#

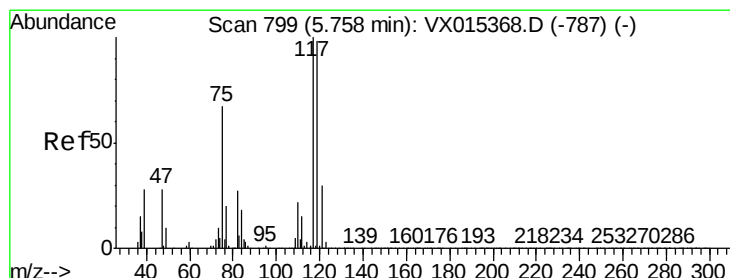
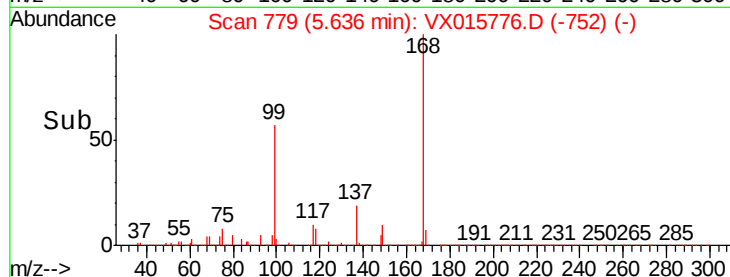
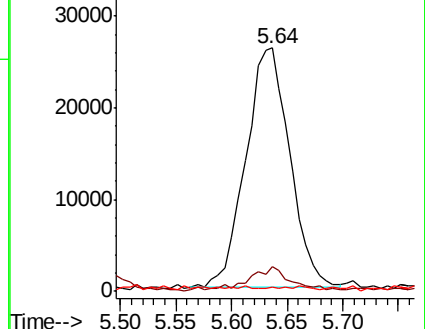
77 0.3 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.003 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.12 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

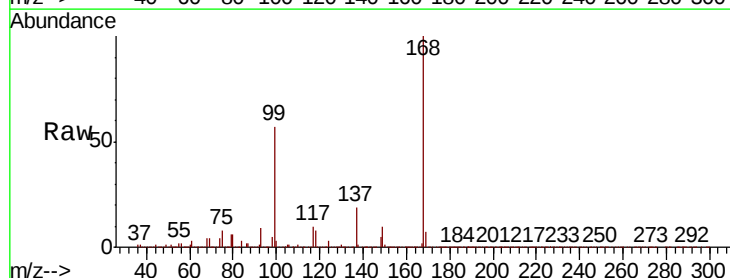
Tgt Ion: 117 Resp: 97788

Ion Ratio Lower Upper

117 100

119 3.1 78.0 117.0#

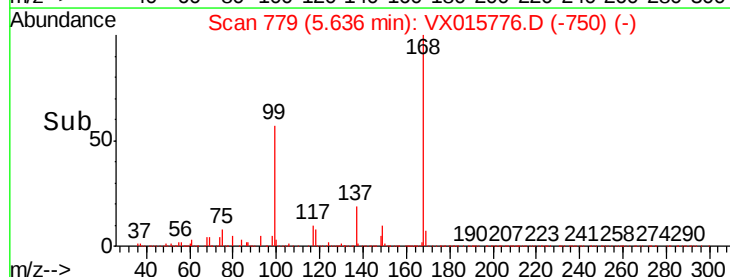
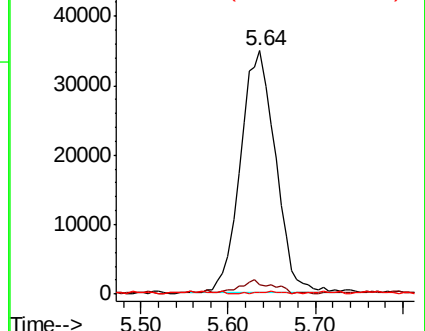
121 0.0 23.8 35.8#

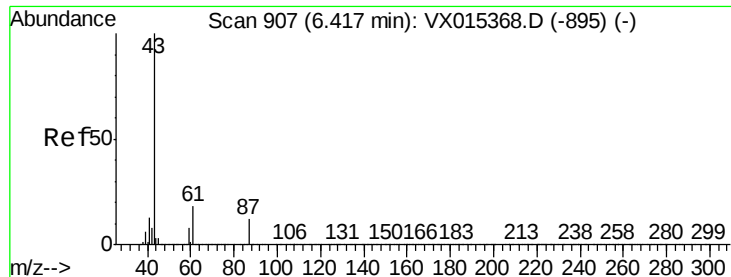


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

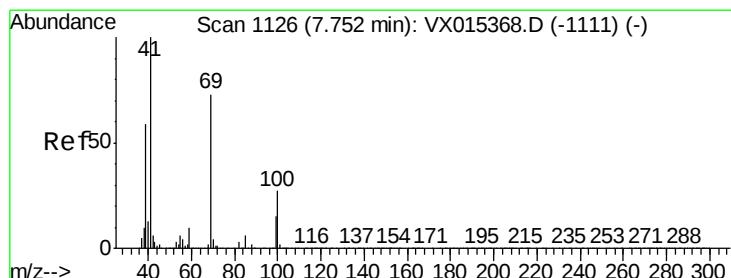
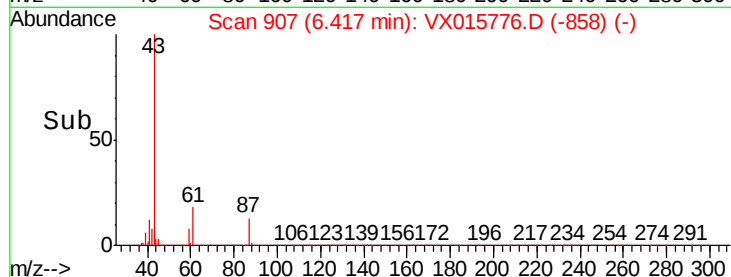
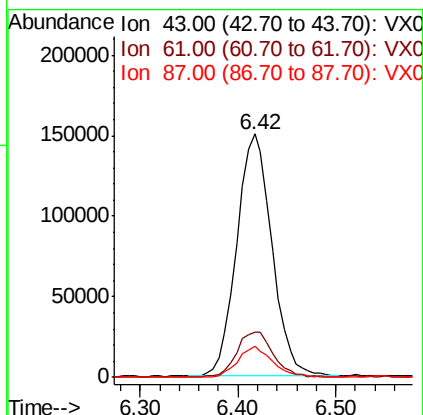
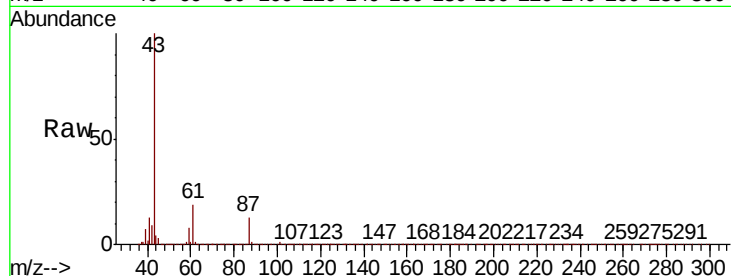




#43
Isopropyl Acetate
Concen: 11.354 ug/l
RT: 6.42 min Scan# 907
Delta R.T. 0.00 min
Lab File: VX015776.D
Acq: 20 Apr 2020 19:13

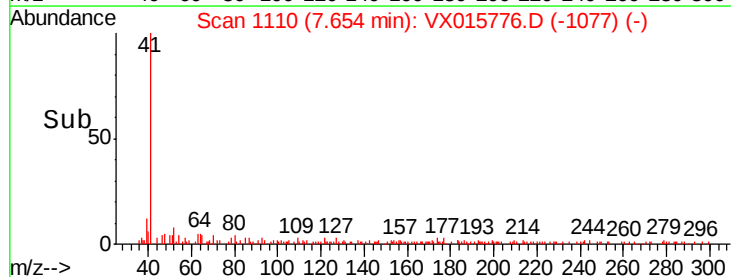
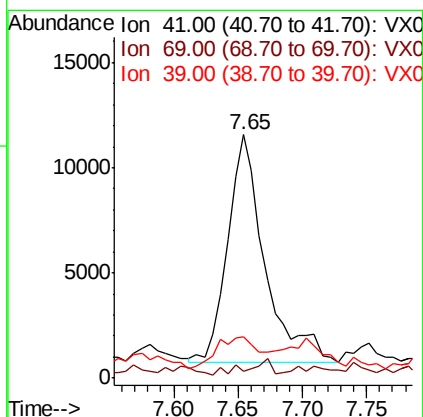
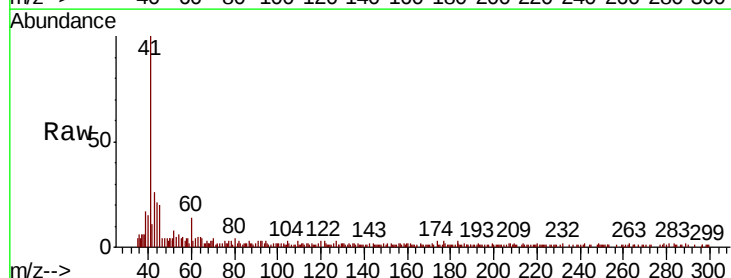
Instrument :
MSVOA_X
ClientSampleId :

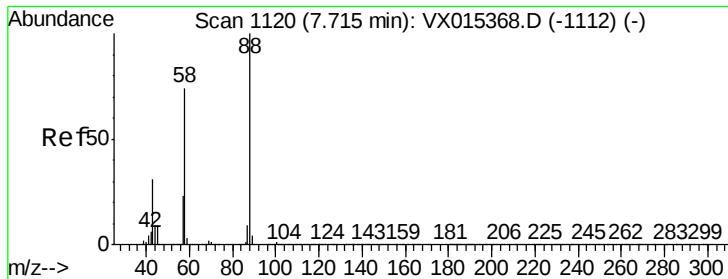
Tot Ion	Ratio	Lower	Upper
43	100		
61	19.0	14.8	22.2
87	12.3	9.4	14.0



#48
Methyl methacrylate
Concen: 1.305 ug/l
RT: 7.65 min Scan# 1110
Delta R.T. -0.10 min
Lab File: VX015776.D
Acq: 20 Apr 2020 19:13

Tgt Ion	Ratio	Lower	Upper
41	100		
69	1.8	56.7	85.1#
39	0.0	46.5	69.7#





#49

1,4-Dioxane

Concen: 2.321 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

Instrument :

MSVOA_X

ClientSampled :

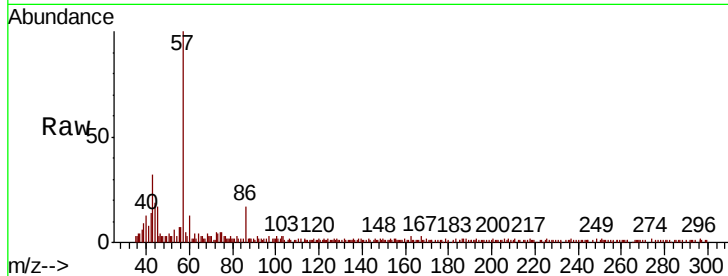
Tot Ion: 88 Resp: 715

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

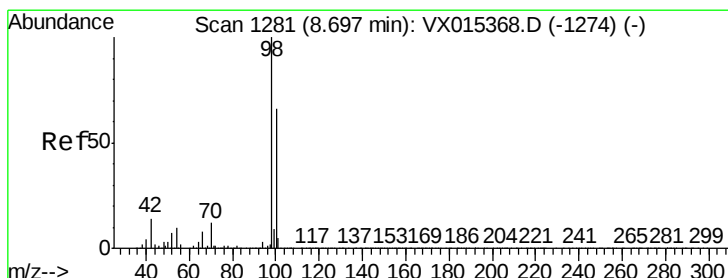
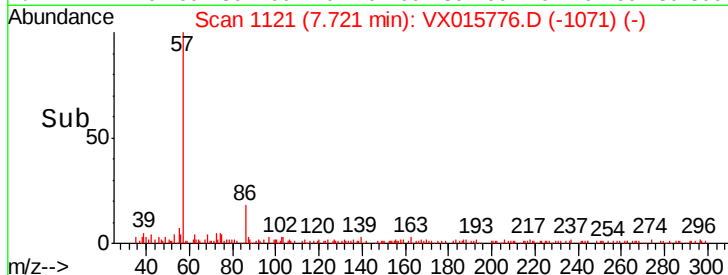
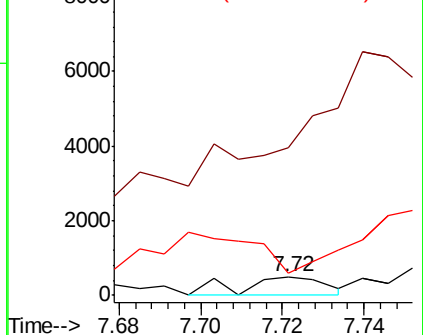
58 0.0 60.6 90.8#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.063 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015776.D

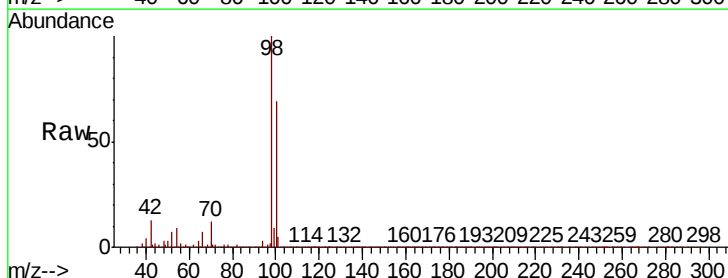
Acq: 20 Apr 2020 19:13

Tgt Ion: 98 Resp: 1923172

Ion Ratio Lower Upper

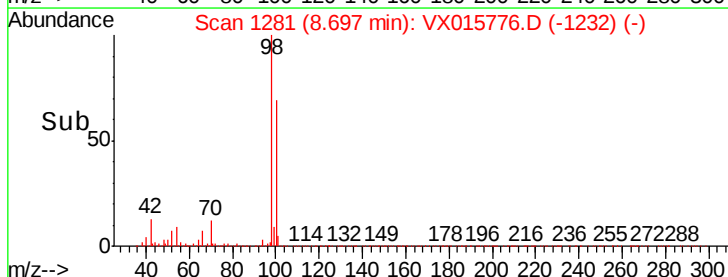
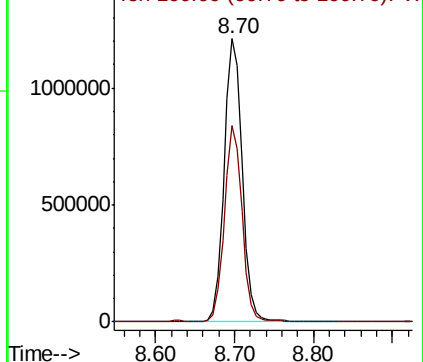
98 100

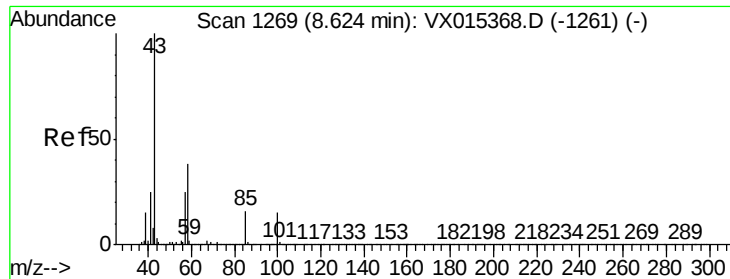
100 67.6 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 19.089 ug/l

RT: 8.59 min Scan# 1264

Delta R.T. -0.03 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

Instrument :

MSVOA_X

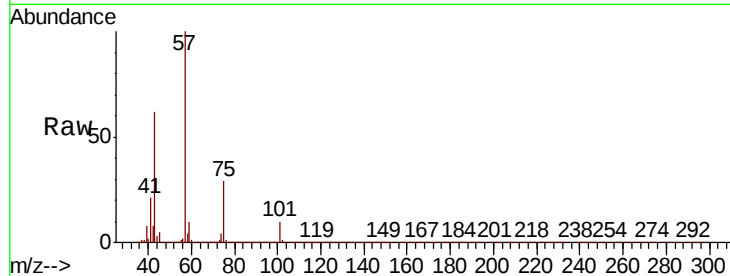
ClientSampleId :

Tot Ion: 43 Resp: 357622

Ion Ratio Lower Upper

43 100

58 6.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.59

200000

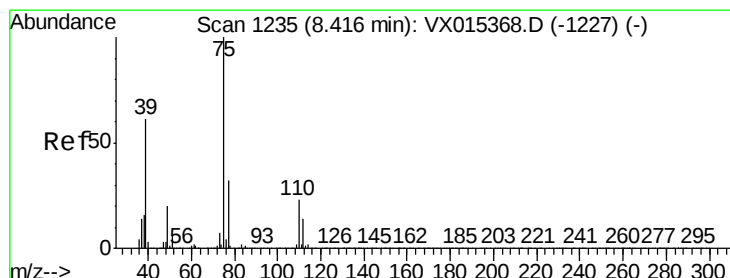
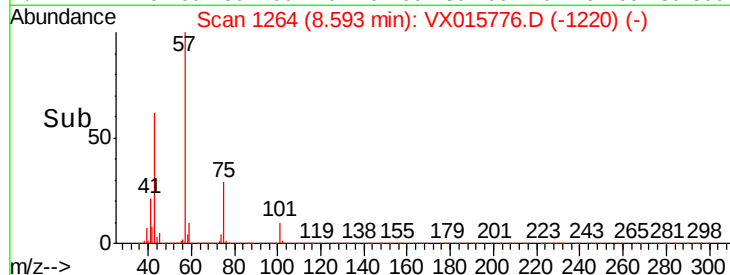
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 7.040 ug/l

RT: 8.59 min Scan# 1264

Delta R.T. 0.18 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

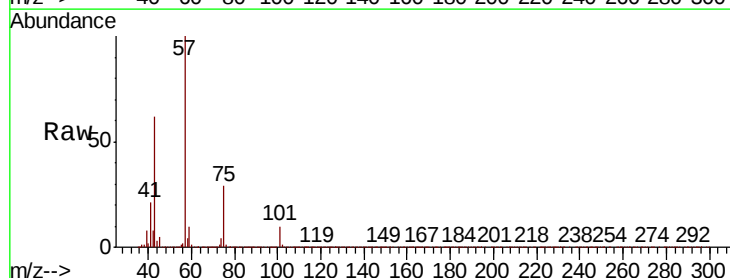
Tgt Ion: 75 Resp: 141693

Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.6#

39 25.5 49.0 73.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

8.59

120000

100000

80000

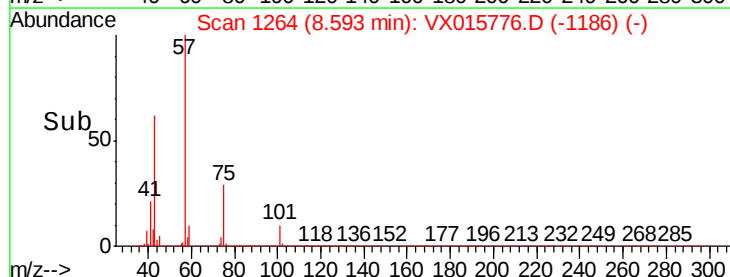
60000

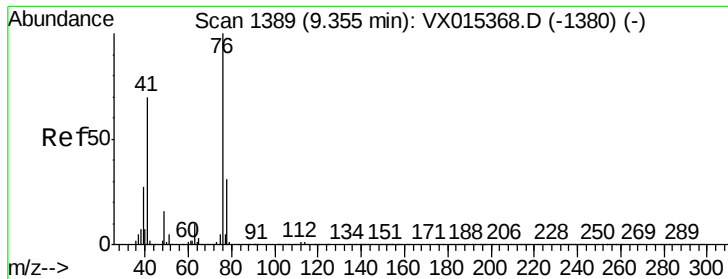
40000

20000

0

Time-->





#57

1,3-Dichloropropane

Concen: 1.314 ug/l

RT: 9.53 min Scan# 1417

Delta R.T. 0.17 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

Instrument :

MSVOA_X

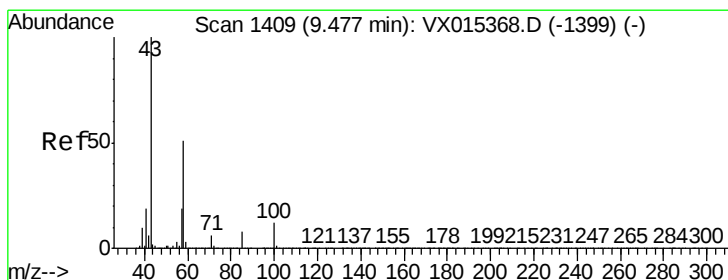
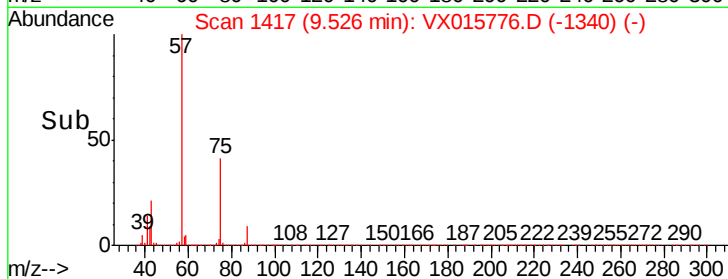
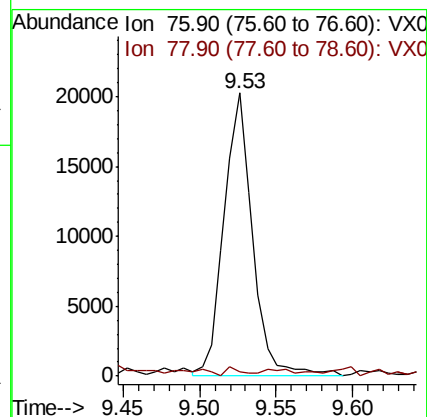
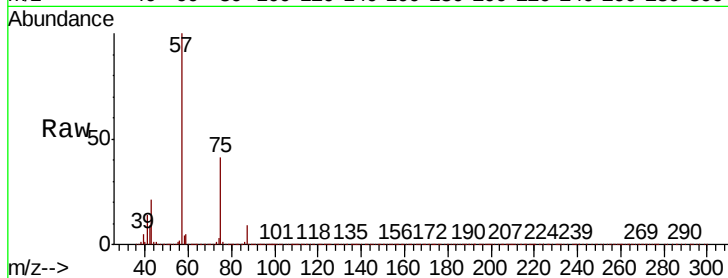
ClientSampleId :

Tot Ion: 76 Resp: 26339

Ion Ratio Lower Upper

76 100

78 1.7 25.8 38.8#



#59

2-Hexanone

Concen: 22.755 ug/l

RT: 9.42 min Scan# 1400

Delta R.T. -0.05 min

Lab File: VX015776.D

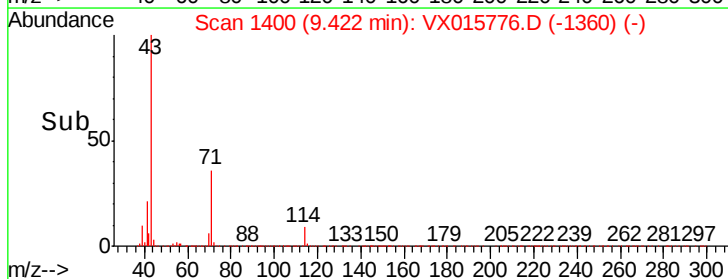
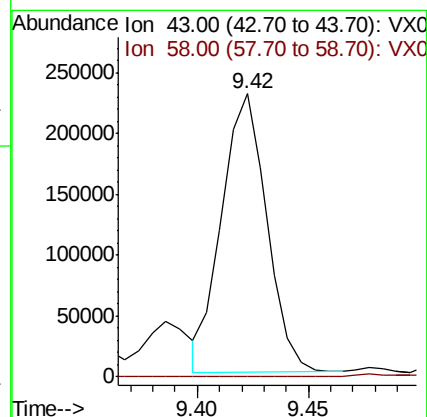
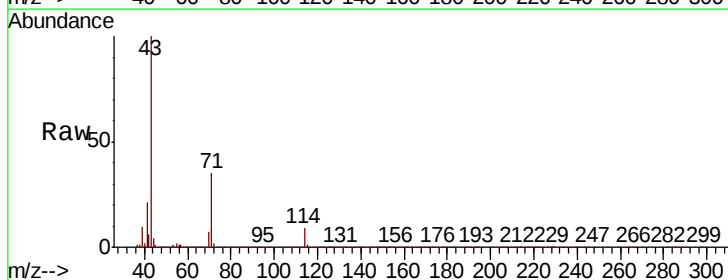
Acq: 20 Apr 2020 19:13

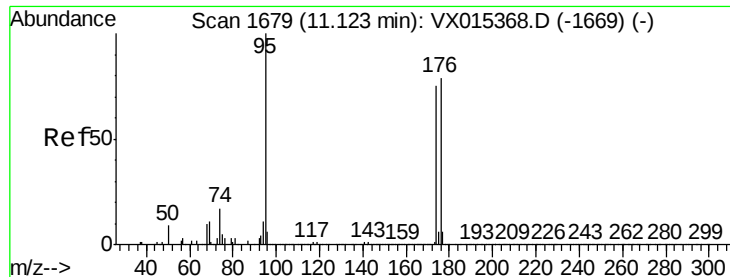
Tgt Ion: 43 Resp: 321855

Ion Ratio Lower Upper

43 100

58 0.0 25.6 76.6#

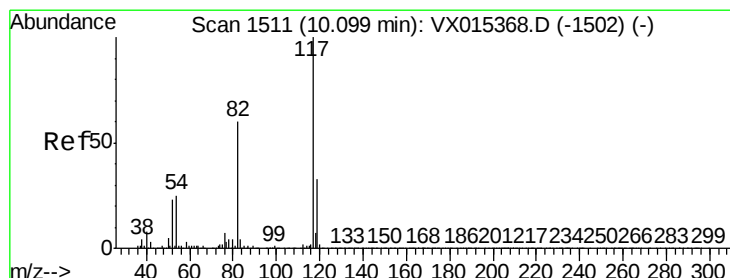
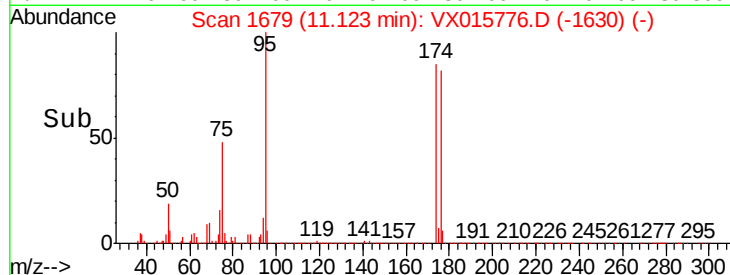
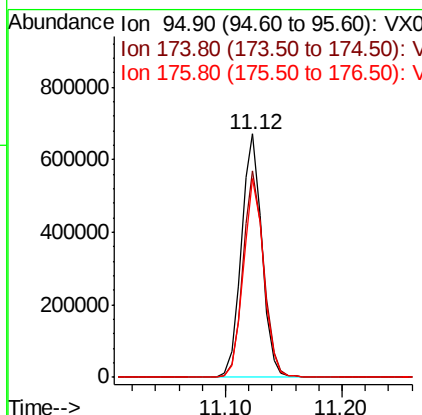
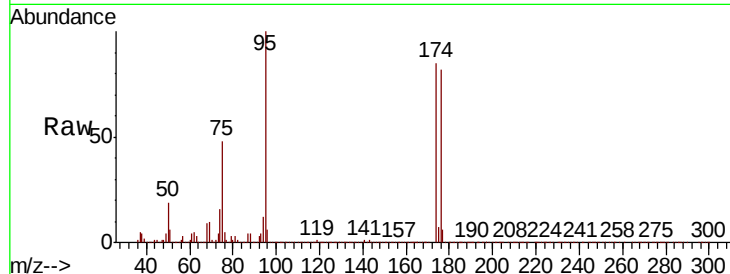




#62
4-Bromofluorobenzene
Concen: 52.775 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VX015776.D
Acq: 20 Apr 2020 19:13

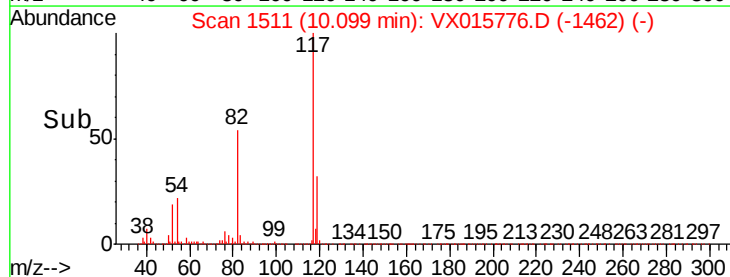
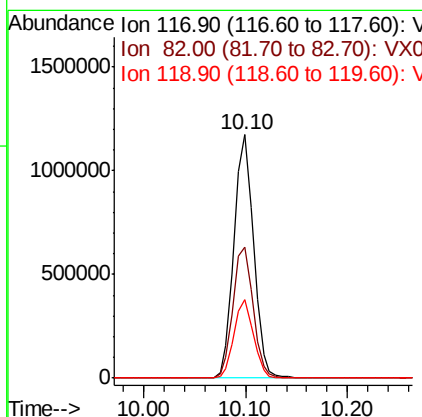
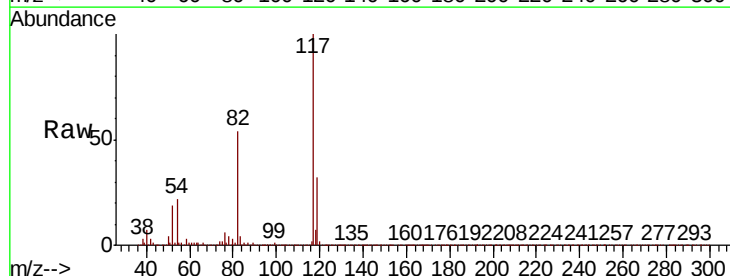
Instrument :
MSVOA_X
ClientSampleId :

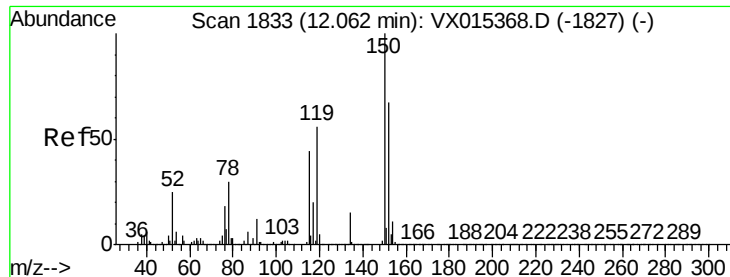
Tot Ion	Ratio	Lower	Upper
95	100		
174	85.9	0.0	158.6
176	81.5	0.0	159.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015776.D
Acq: 20 Apr 2020 19:13

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.9	47.8	71.8
119	32.2	26.8	40.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

Instrument :

MSVOA_X

ClientSampled :

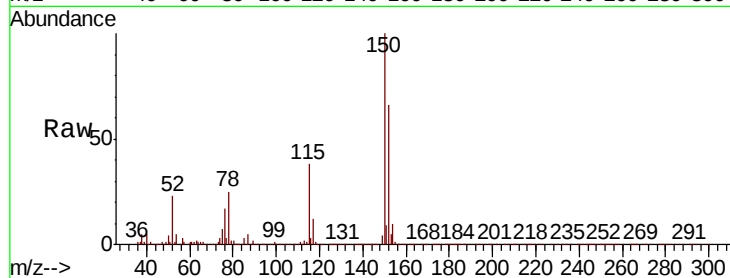
Tot Ion:152 Resp: 881993

Ion Ratio Lower Upper

152 100

115 56.2 39.0 116.9

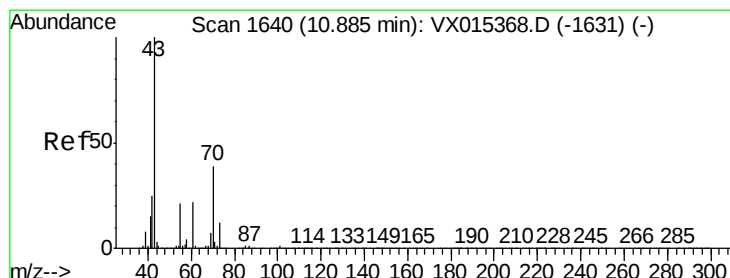
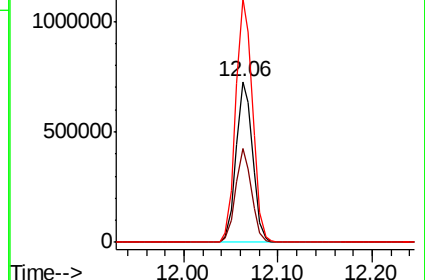
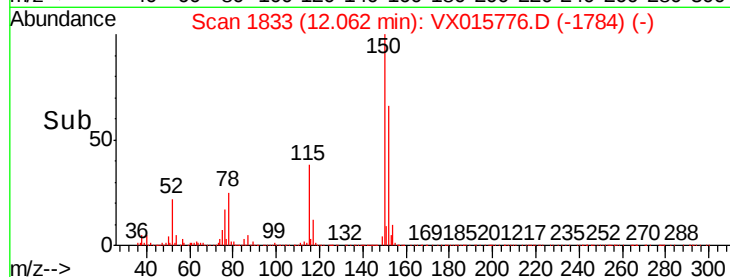
150 153.7 0.0 340.8



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



#74

N-ethyl acetate

Concen: 0.643 ug/l

RT: 10.81 min Scan# 1627

Delta R.T. -0.08 min

Lab File: VX015776.D

Acq: 20 Apr 2020 19:13

Tgt Ion: 43 Resp: 20652

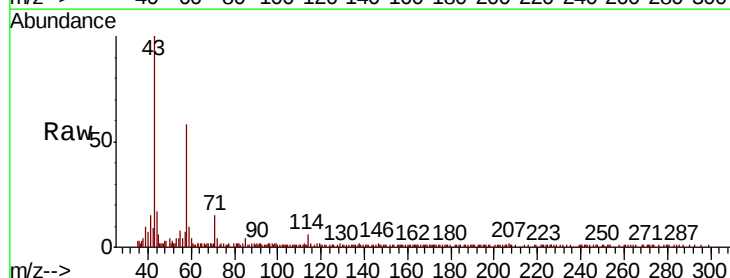
Ion Ratio Lower Upper

43 100

70 4.8 30.2 45.4#

55 7.6 16.8 25.2#

61 0.0 18.2 27.2#

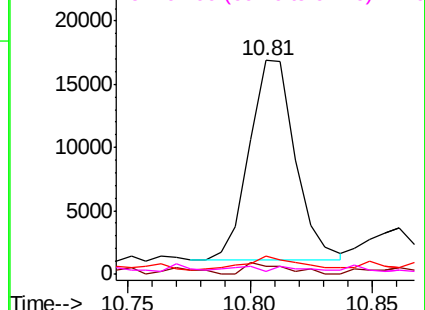
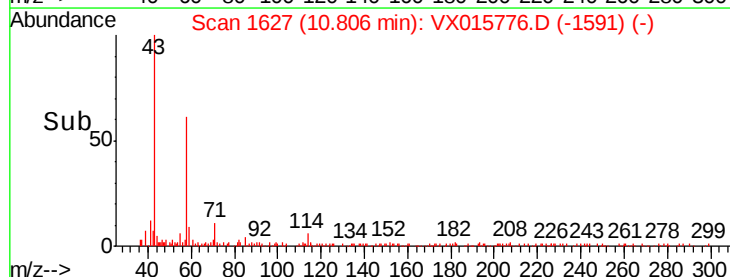


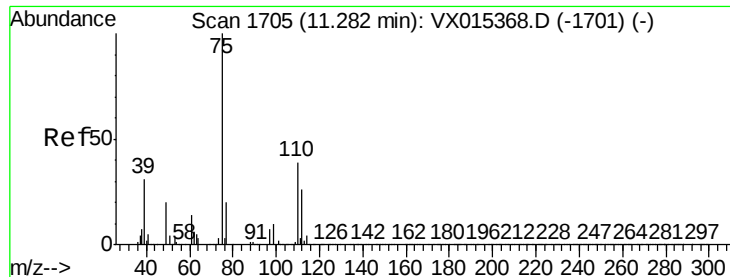
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

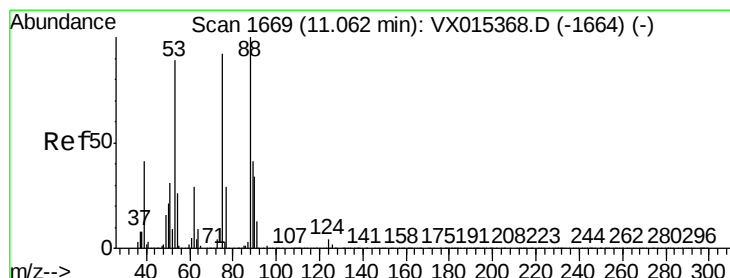
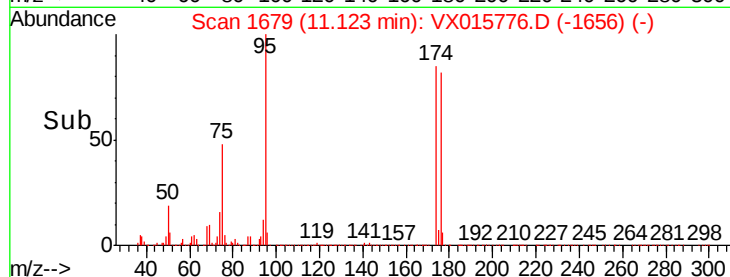
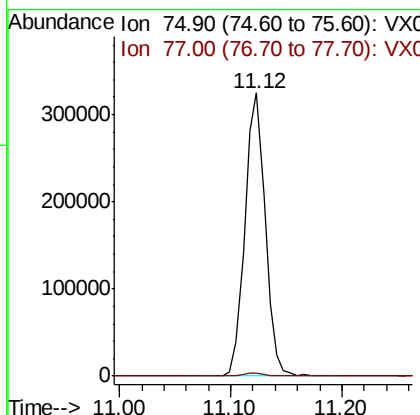
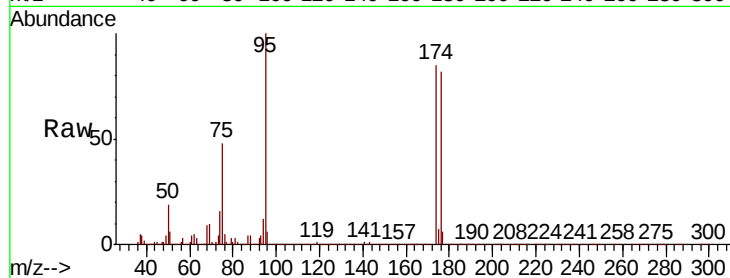




#76
 1,2,3-Trichloropropane
 Concen: 22.562 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. -0.16 min
 Lab File: VX015776.D
 Acq: 20 Apr 2020 19:13

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 409219
 Ion Ratio Lower Upper
 75 100
 77 1.2 21.2 63.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 54.137 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. 0.06 min
 Lab File: VX015776.D
 Acq: 20 Apr 2020 19:13

Tgt Ion: 75 Resp: 409219
 Ion Ratio Lower Upper
 75 100
 53 0.1 80.1 120.1#
 89 0.1 36.1 54.1#

