

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091420\
 Data File : VX018393.D
 Acq On : 14 Sep 2020 18:52
 Operator : JC/SP
 Sample : PB131574TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 15 05:12:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	445401	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	709987	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	713721	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	358380	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	325238	52.60	ug/l	0.00
Spiked Amount			Recovery	=	105.20%	
35) Dibromofluoromethane	5.47	113	243583	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
50) Toluene-d8	8.70	98	904252	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
62) 4-Bromofluorobenzene	11.12	95	345509	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	

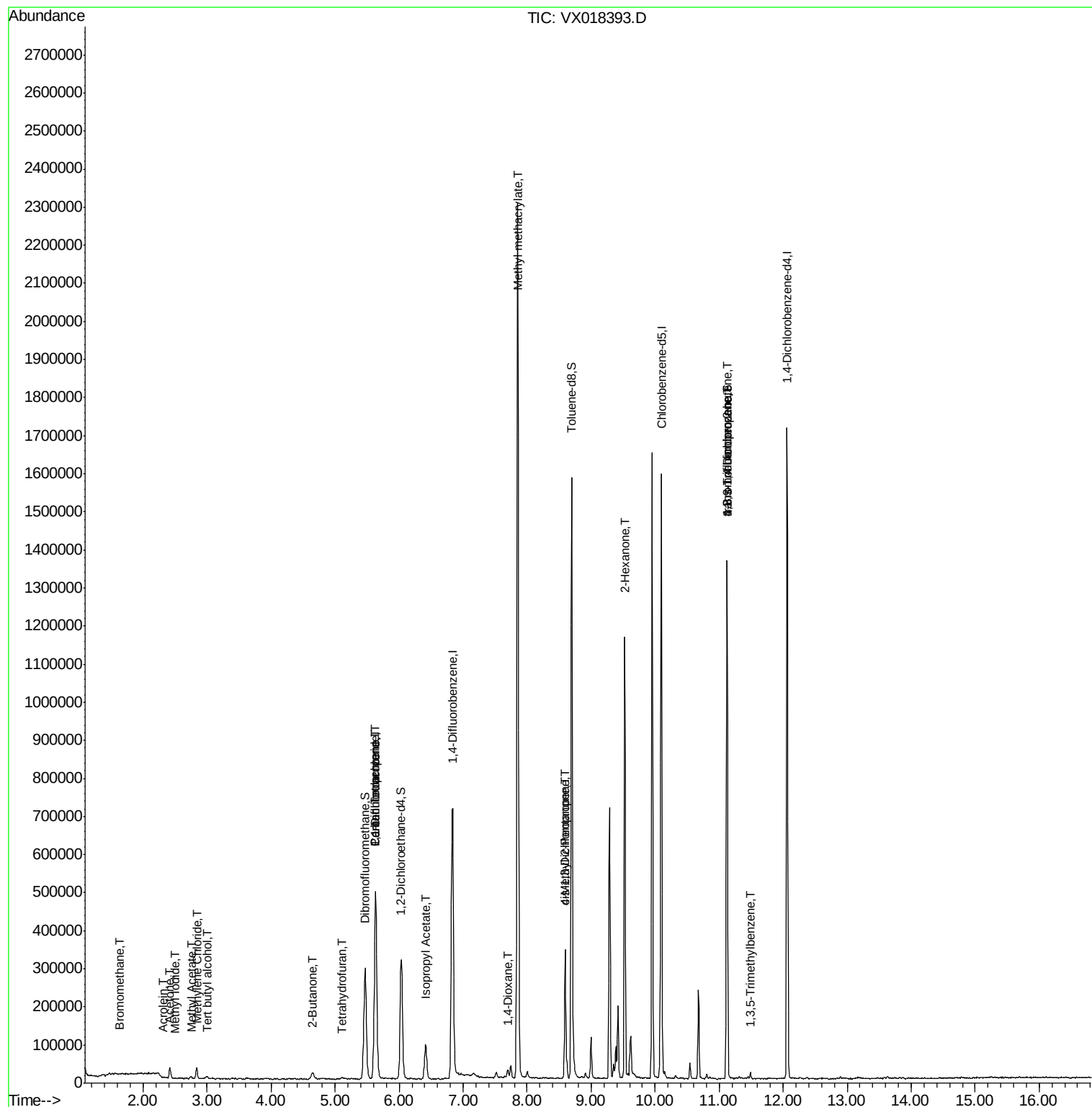
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	766	0.279	ug/l #	54
10) Methyl Iodide	2.50	142	412	5.369	ug/l #	41
11) Tert butyl alcohol	3.01	59	4508	3.750	ug/l	100
13) Acrolein	2.30	56	308	0.618	ug/l #	58
16) Acetone	2.42	43	28885	11.988	ug/l #	87
18) Methyl Acetate	2.75	43	8169	1.405	ug/l	99
20) Methylene Chloride	2.84	84	12930	1.492	ug/l	92
25) 2-Butanone	4.65	43	10244	2.587	ug/l	97
29) Tetrahydrofuran	5.10	42	1607	0.638	ug/l #	39
36) 1,1-Dichloropropene	5.62	75	36065	5.507	ug/l #	53
38) Carbon Tetrachloride	5.64	117	46793	6.341	ug/l #	16
43) Isopropyl Acetate	6.42	43	122671	9.986	ug/l	98
48) Methyl methacrylate	7.85	41	202272	33.076	ug/l #	45
49) 1,4-Dioxane	7.71	88	59	0.533	ug/l #	23
51) 4-Methyl-2-Pentanone	8.59	43	128233	16.899	ug/l #	50
54) cis-1,3-Dichloropropene	8.59	75	52067	6.090	ug/l #	65
59) 2-Hexanone	9.52	43	129612	22.463	ug/l #	53
76) 1,2,3-Trichloropropane	11.12	75	175775	22.048	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	6715	0.346	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.12	75	175775	59.549	ug/l #	12

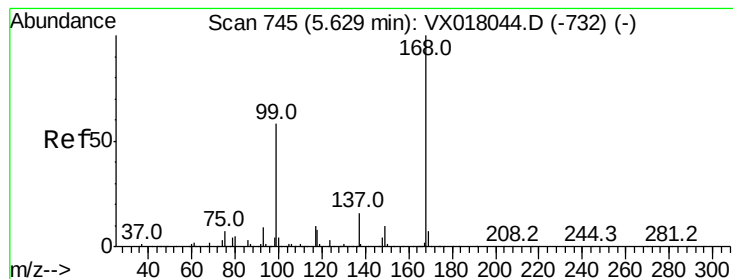
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 21 03:03:56 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

Instrument :

MSVOA_X

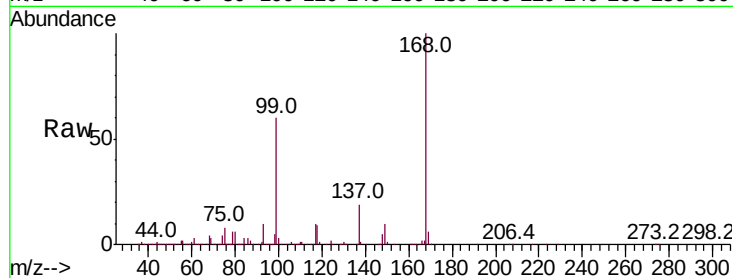
ClientSampleId :

Tot Ion:168 Resp: 445401

Ion Ratio Lower Upper

168 100

99 60.3 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

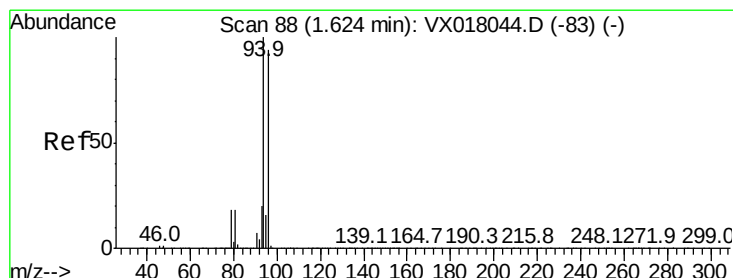
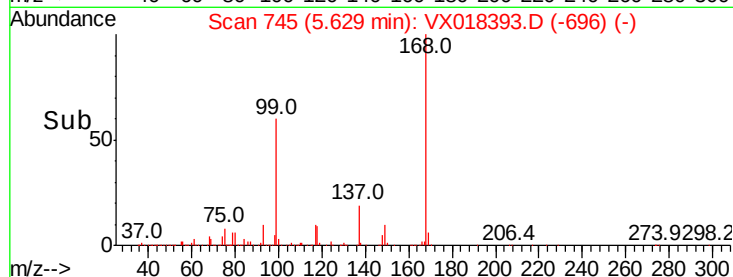
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.279 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX018393.D

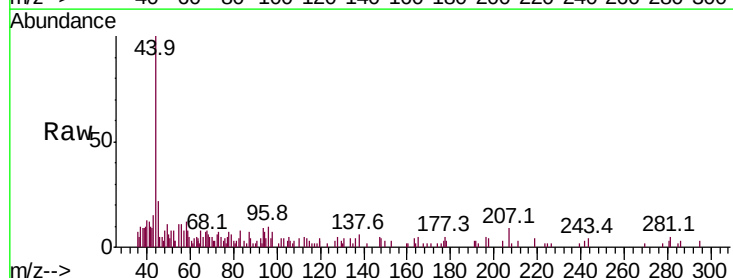
Acq: 14 Sep 2020 18:52

Tgt Ion: 94 Resp: 766

Ion Ratio Lower Upper

94 100

96 49.0 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

600

500

400

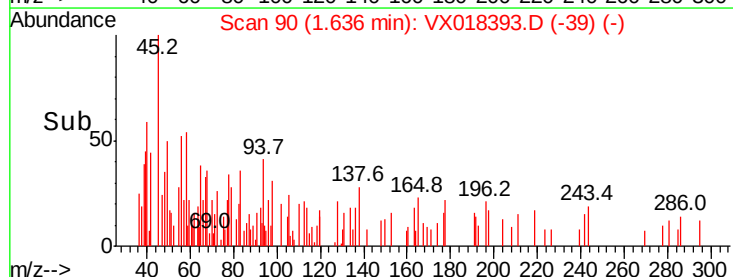
300

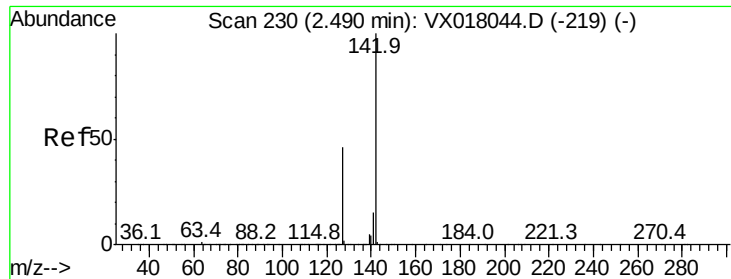
200

100

0

Time-->

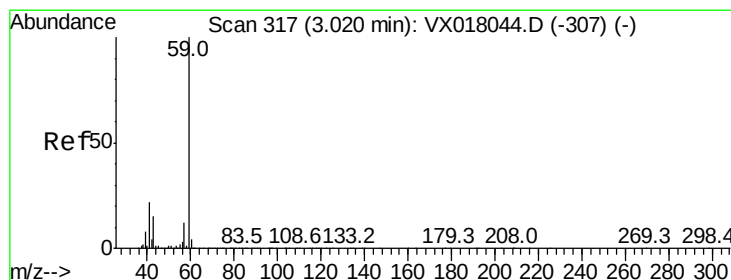
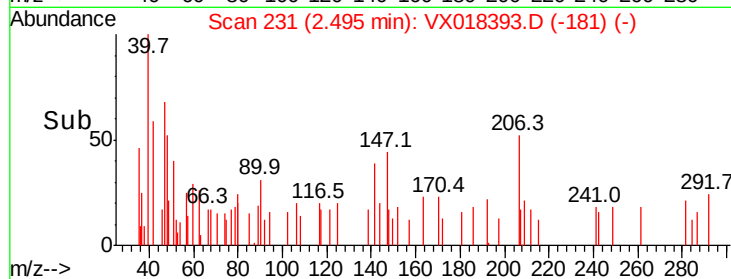
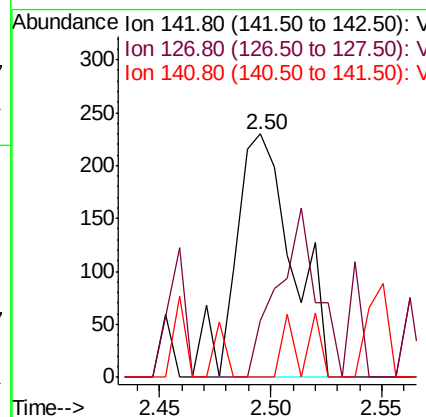
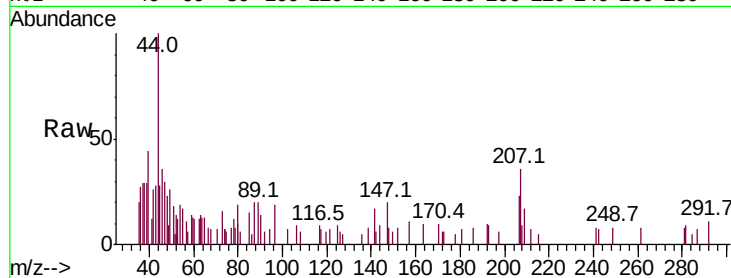




#10
Methvl Iodide
Concen: 5.369 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX018393.D
Acq: 14 Sep 2020 18:52

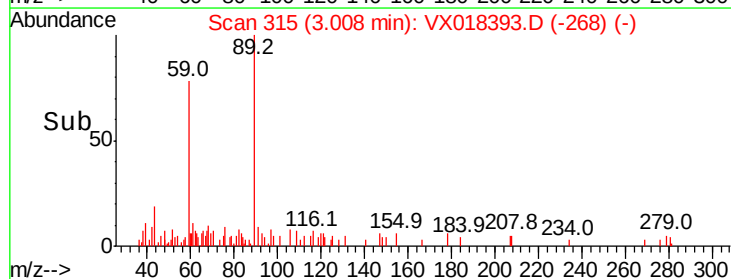
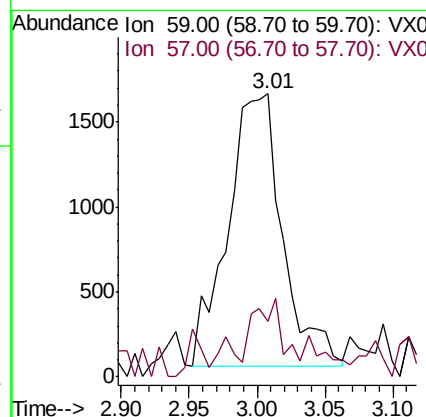
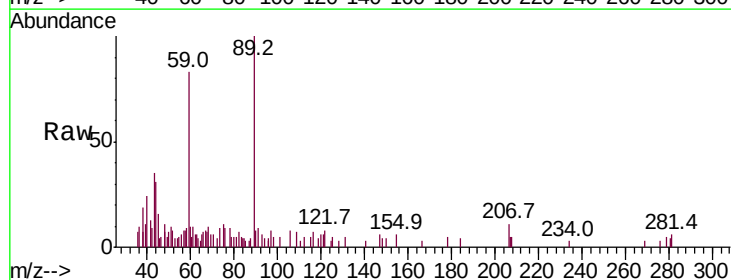
Instrument :
MSVOA_X
ClientSampleId :

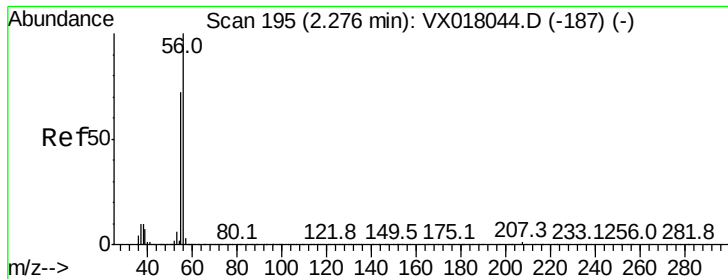
Tot Ion:142 Resp: 412
Ion Ratio Lower Upper
142 100
127 0.0 37.0 55.6#
141 4.6 11.5 17.3#



#11
Tert butyl alcohol
Concen: 3.750 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX018393.D
Acq: 14 Sep 2020 18:52

Tgt Ion: 59 Resp: 4508
Ion Ratio Lower Upper
59 100
57 11.2 8.9 13.3





#13

Acrolein

Concen: 0.618 ug/l

RT: 2.30 min Scan# 199

Delta R.T. 0.02 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

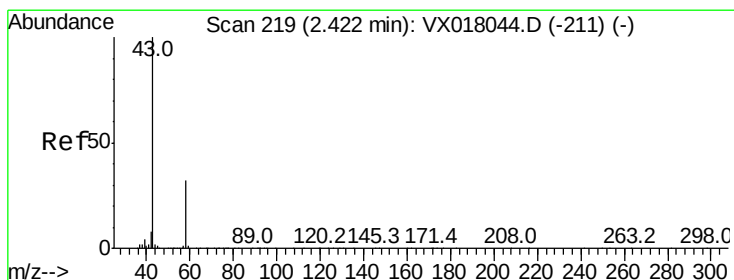
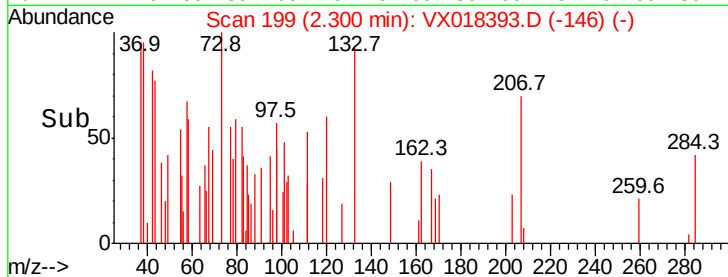
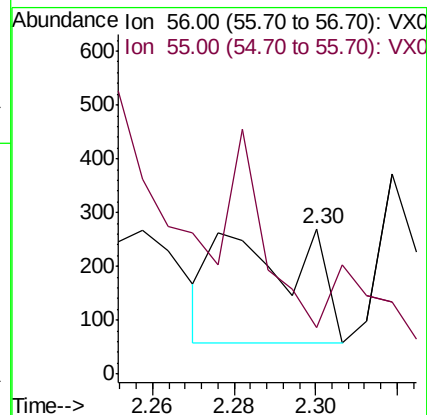
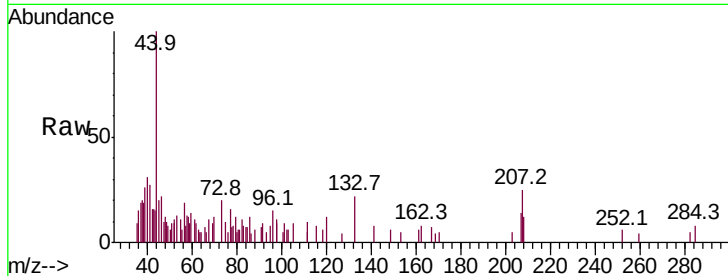
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 308

Ion Ratio Lower Upper

56 100

55 36.7 57.0 85.6#



#16

Acetone

Concen: 11.988 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018393.D

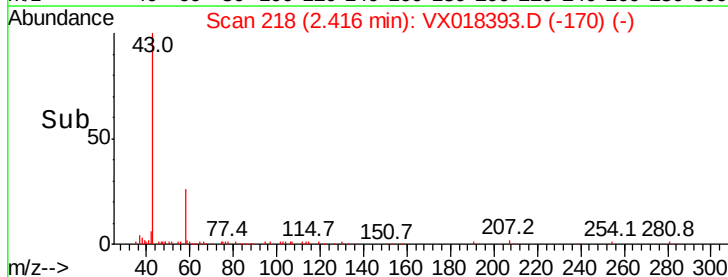
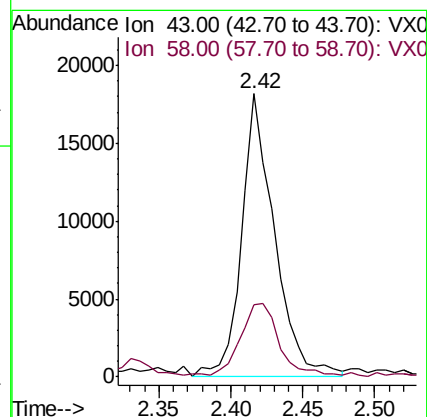
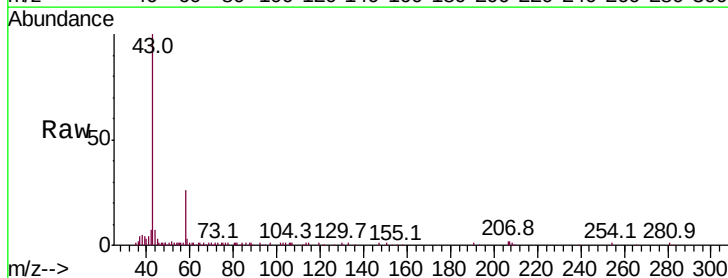
Acq: 14 Sep 2020 18:52

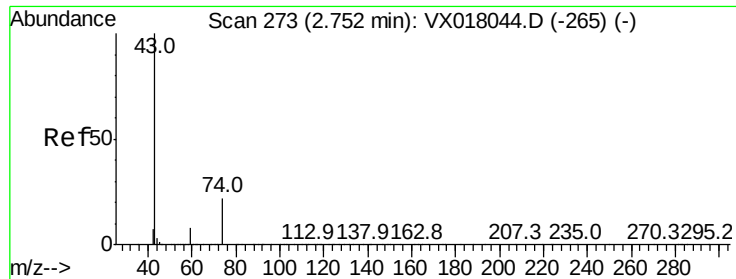
Tgt Ion: 43 Resp: 28885

Ion Ratio Lower Upper

43 100

58 24.8 25.5 38.3#

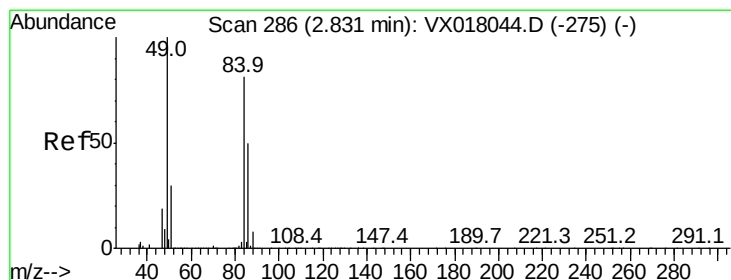
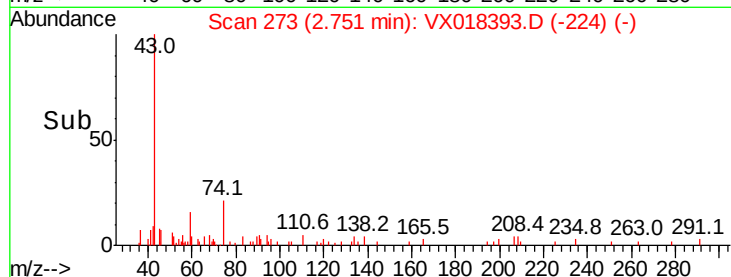
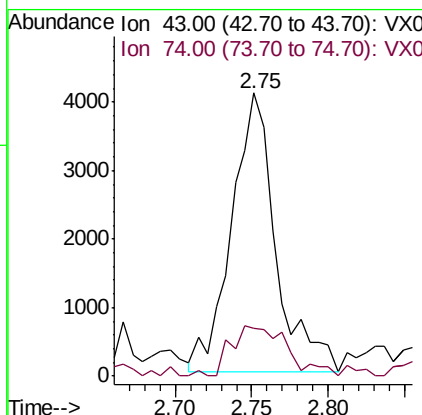
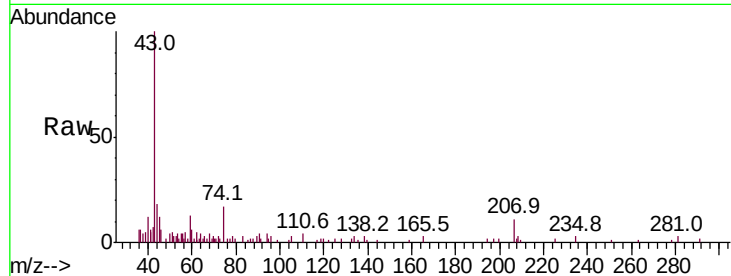




#18
Methvl Acetate
Concen: 1.405 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX018393.D
Acq: 14 Sep 2020 18:52

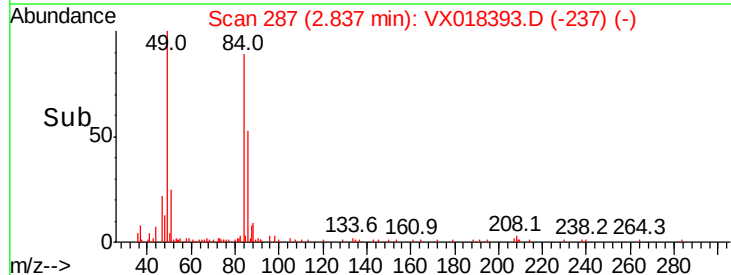
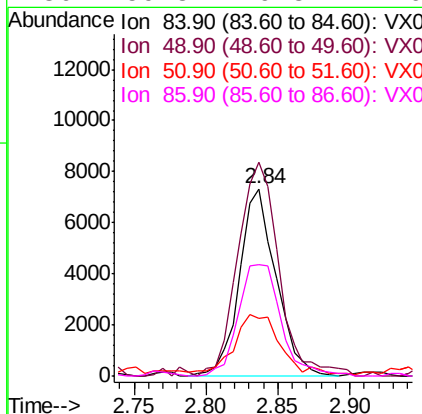
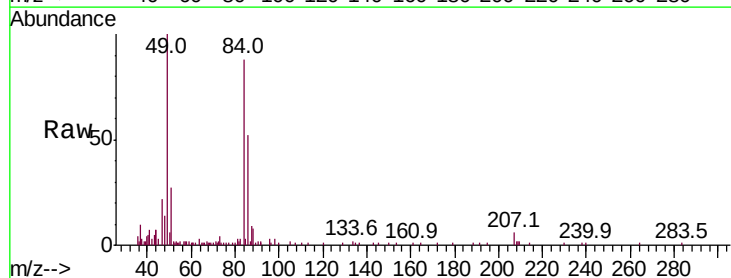
Instrument :
MSVOA_X
ClientSampleId :

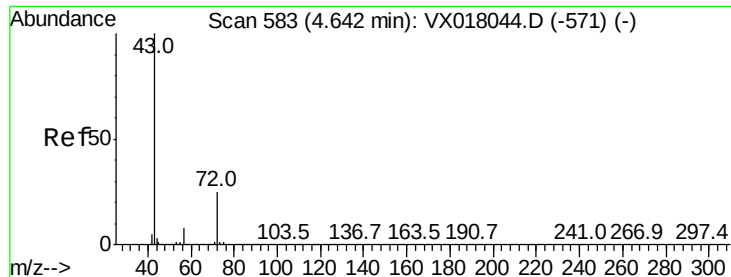
Tot Ion: 43 Resp: 8169
Ion Ratio Lower Upper
43 100
74 23.4 18.2 27.4



#20
Methylene Chloride
Concen: 1.492 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018393.D
Acq: 14 Sep 2020 18:52

Tgt Ion: 84 Resp: 12930
Ion Ratio Lower Upper
84 100
49 112.4 98.6 148.0
51 29.8 29.6 44.4
86 59.8 49.8 74.6





#25

2-Butanone

Concen: 2.587 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

Instrument :

MSVOA_X

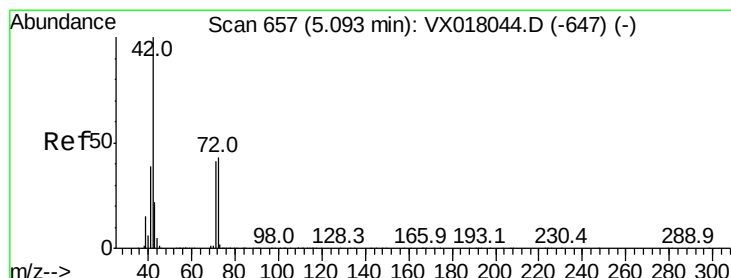
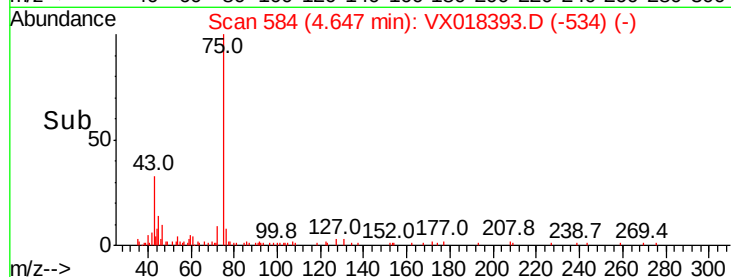
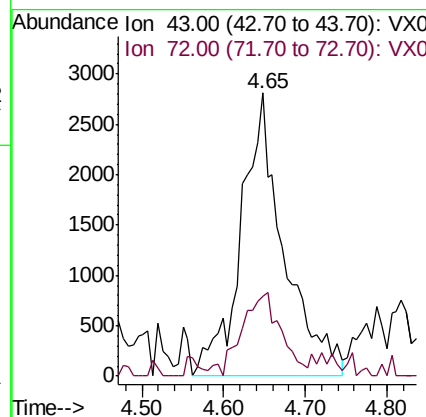
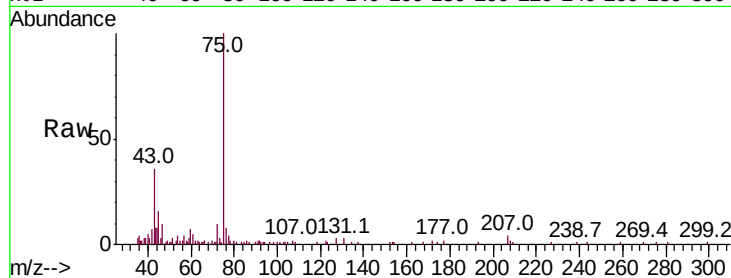
ClientSampleId :

Tot Ion: 43 Resp: 10244

Ion Ratio Lower Upper

43 100

72 23.2 19.8 29.6



#29

Tetrahydrofuran

Concen: 0.638 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

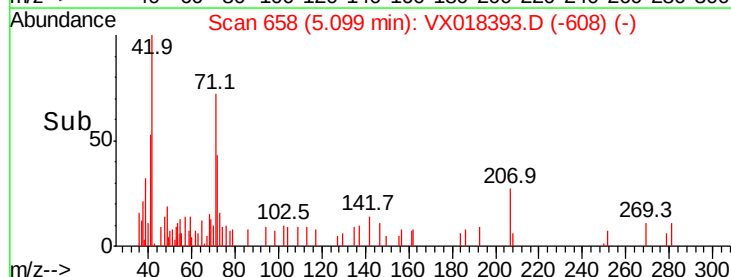
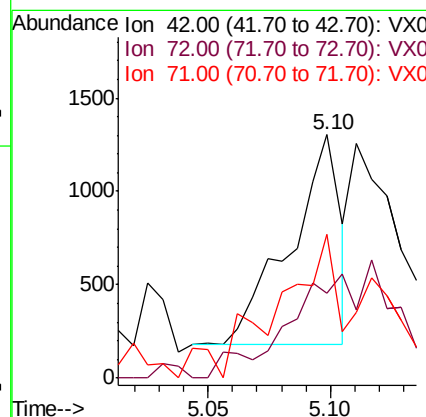
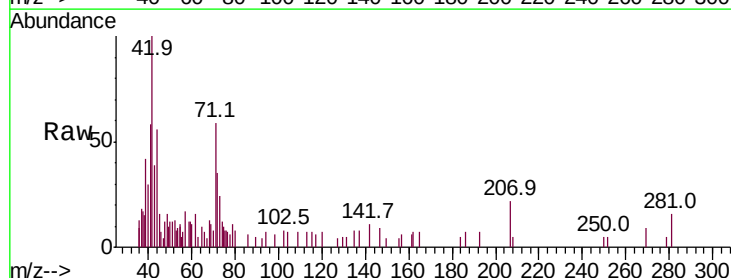
Tgt Ion: 42 Resp: 1607

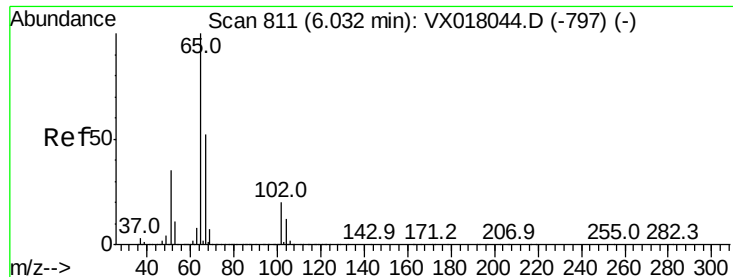
Ion Ratio Lower Upper

42 100

72 68.3 34.2 51.4#

71 91.1 32.1 48.1#





#33

1,2-Dichloroethane-d4

Concen: 52.599 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

Instrument :

MSVOA_X

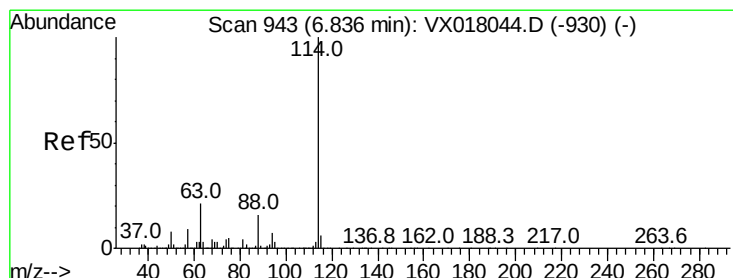
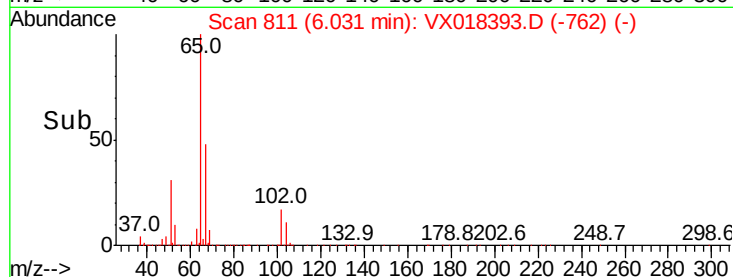
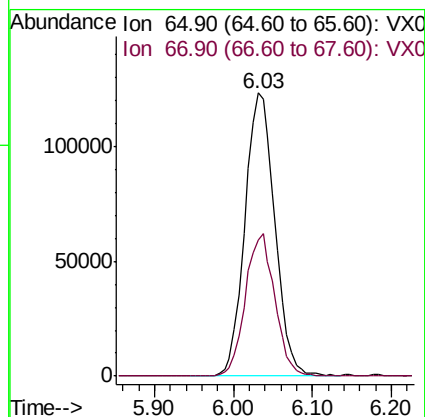
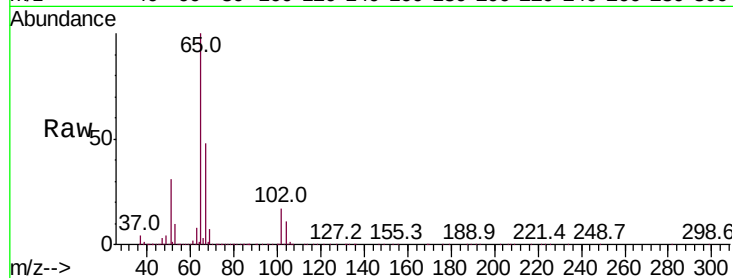
ClientSampleId :

Tot Ion: 65 Resp: 325238

Ion Ratio Lower Upper

65 100

67 49.5 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

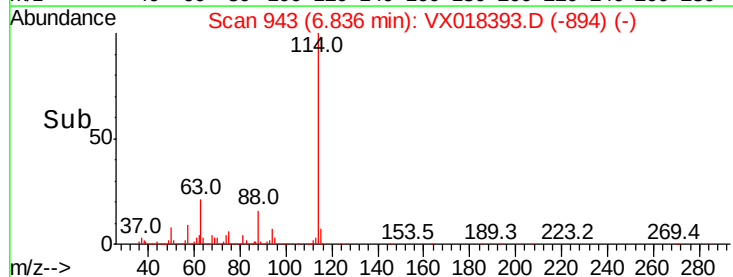
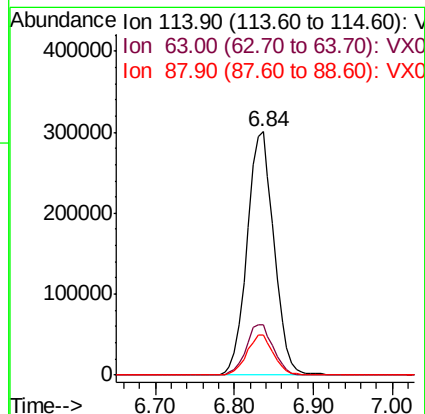
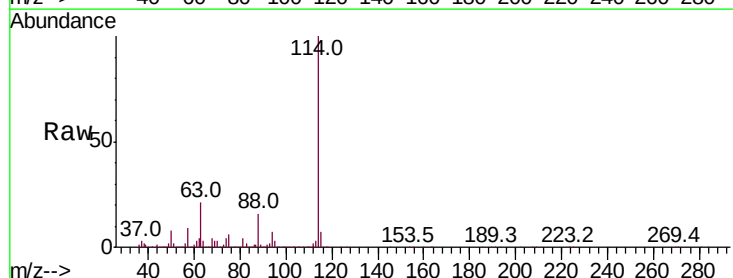
Tgt Ion:114 Resp: 709987

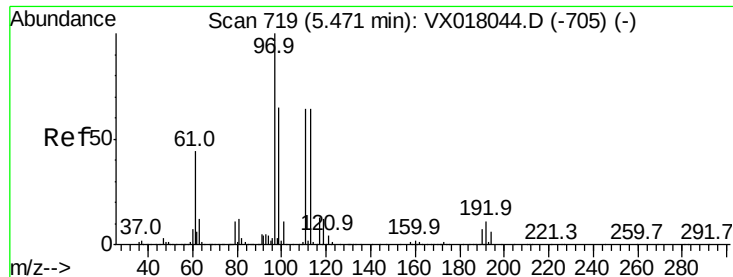
Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.6

88 16.4 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.375 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

Instrument :

MSVOA_X

ClientSampleId :

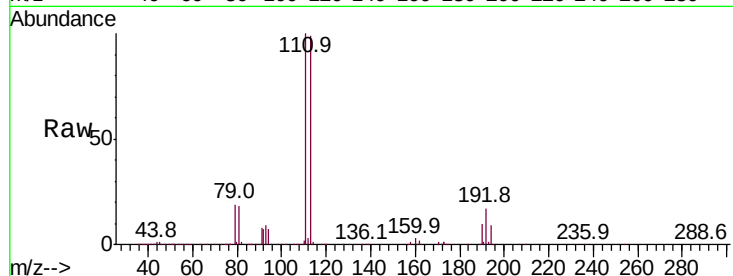
Tot Ion:113 Resp: 243583

Ion Ratio Lower Upper

113 100

111 106.2 81.6 122.4

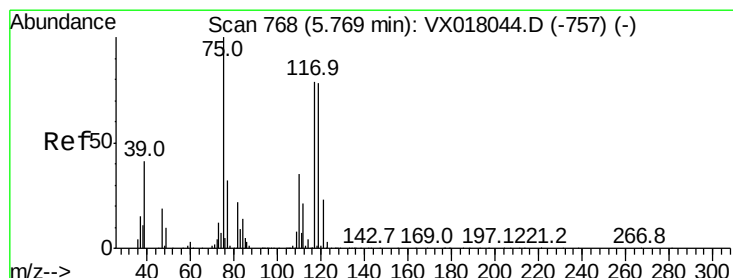
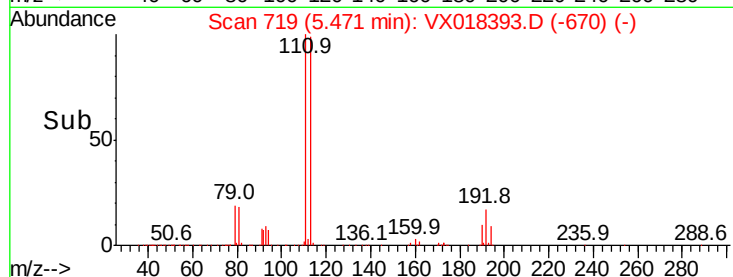
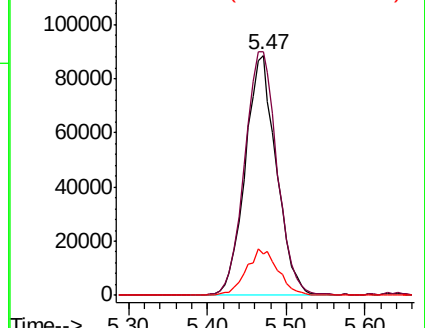
192 19.8 15.8 23.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.507 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

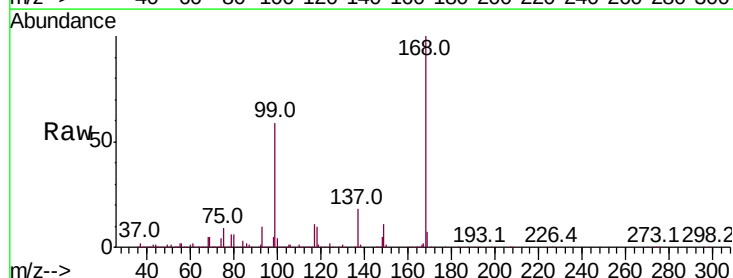
Tgt Ion: 75 Resp: 36065

Ion Ratio Lower Upper

75 100

110 11.9 18.0 54.0#

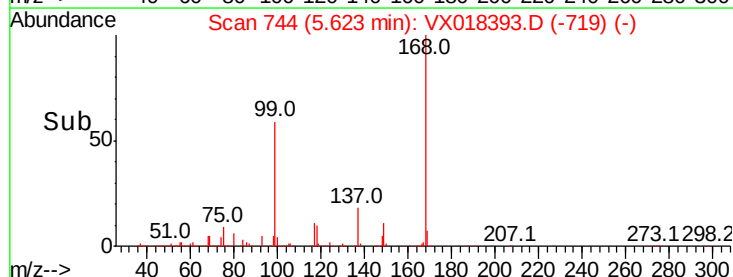
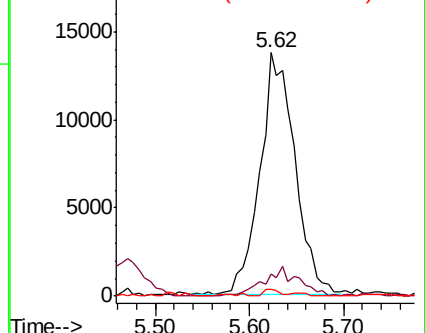
77 1.2 24.4 36.6#

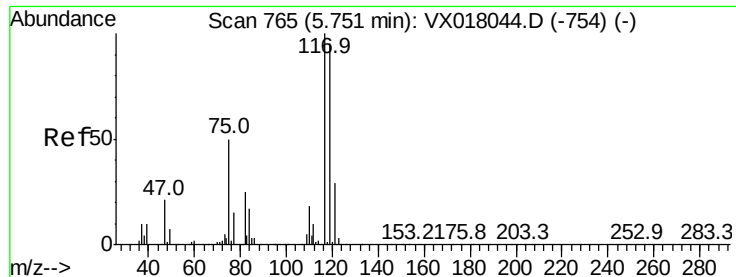


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.341 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

Instrument :

MSVOA_X

ClientSampleId :

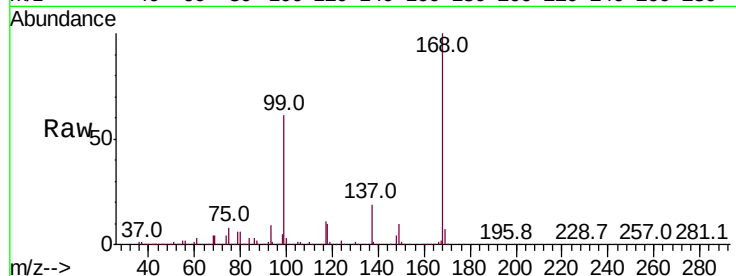
Tot Ion:117 Resp: 46793

Ion Ratio Lower Upper

117 100

119 4.7 75.8 113.6#

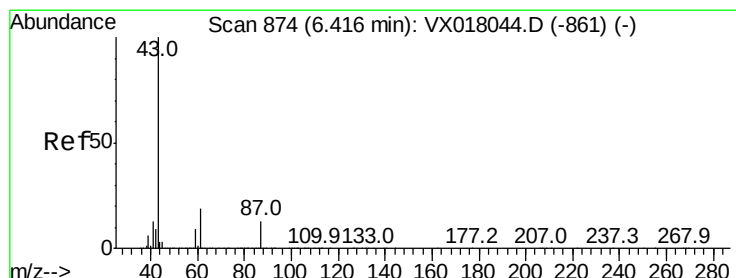
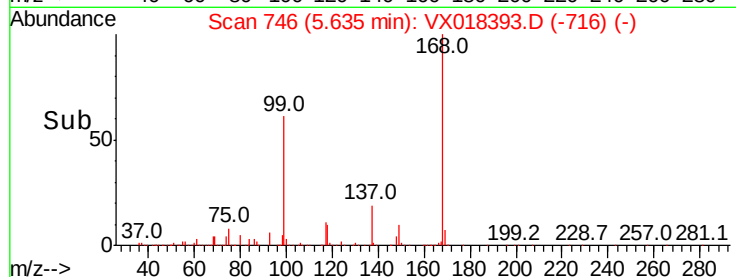
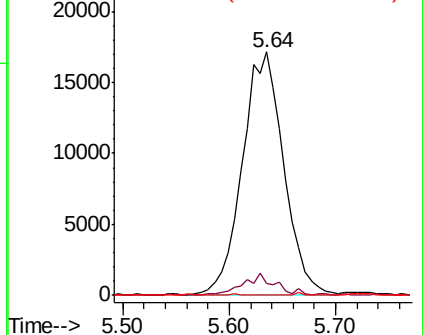
121 0.0 23.4 35.0#



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: 9.986 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

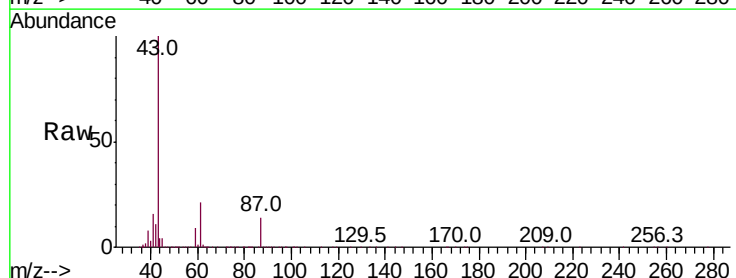
Tgt Ion: 43 Resp: 122671

Ion Ratio Lower Upper

43 100

61 20.5 15.7 23.5

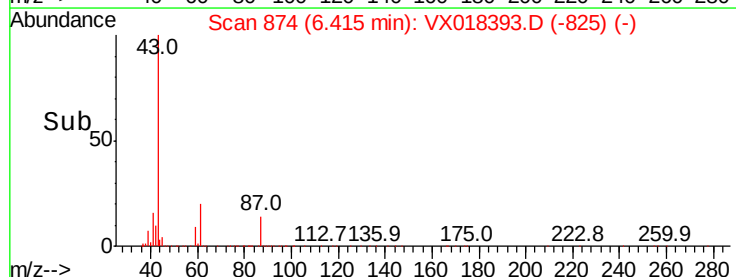
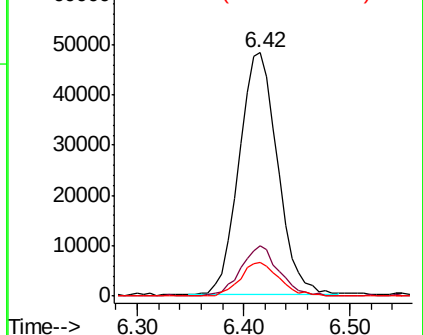
87 14.2 10.3 15.5

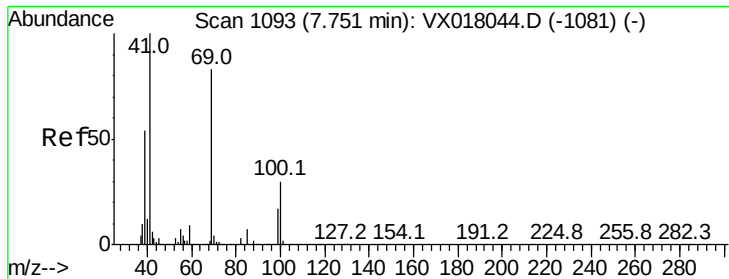


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 33.076 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.10 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

Instrument :

MSVOA_X

ClientSampleId :

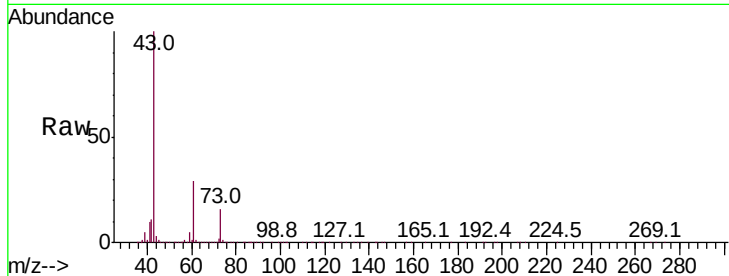
Tot Ion: 41 Resp: 202272

Ion Ratio Lower Upper

41 100

69 0.5 65.5 98.3#

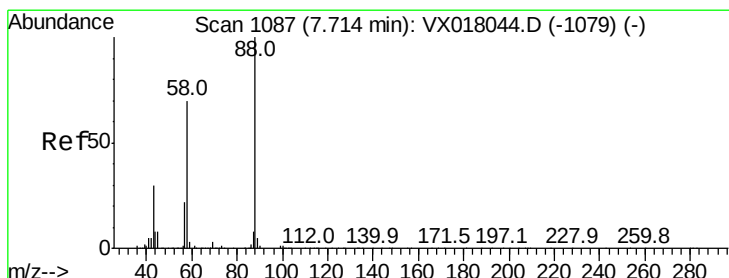
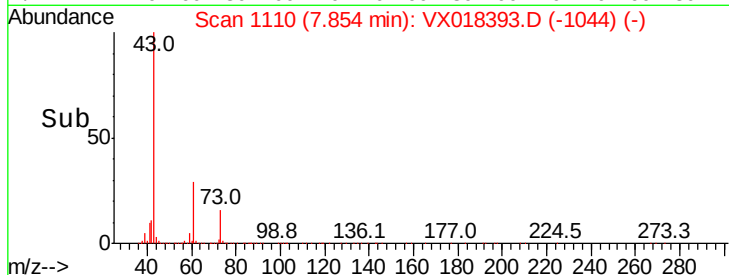
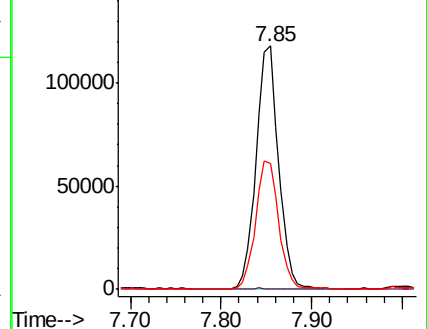
39 53.7 44.5 66.7



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



#49

1,4-Dioxane

Concen: 0.533 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

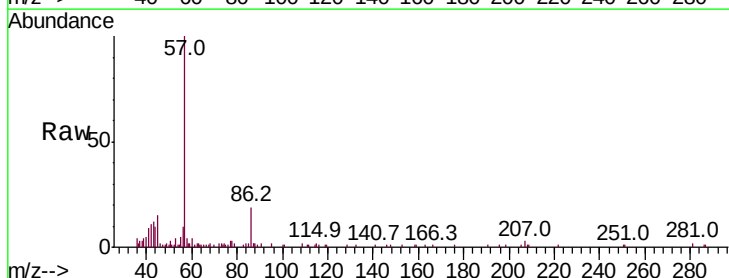
Tgt Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

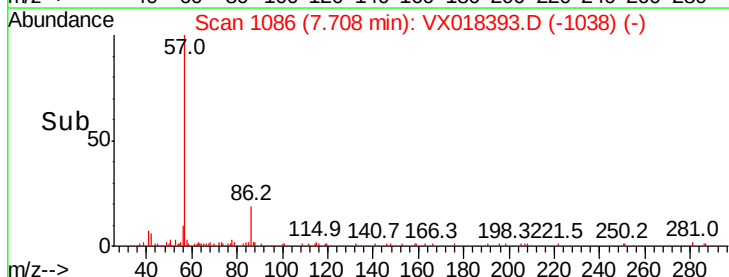
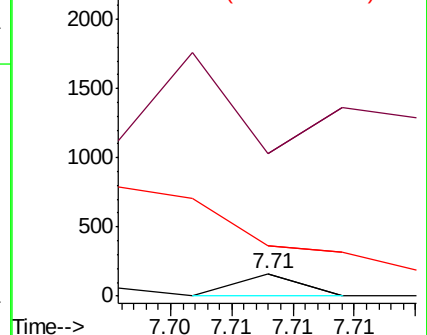
58 0.0 56.4 84.6#

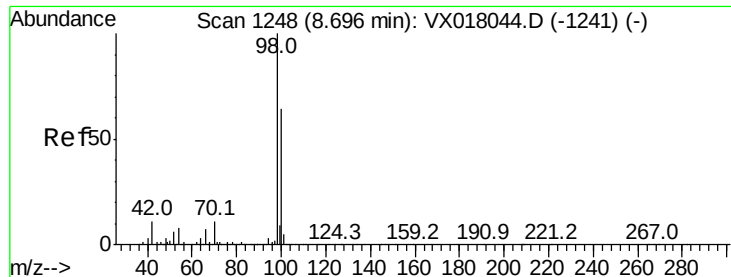


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.210 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

Instrument :

MSVOA_X

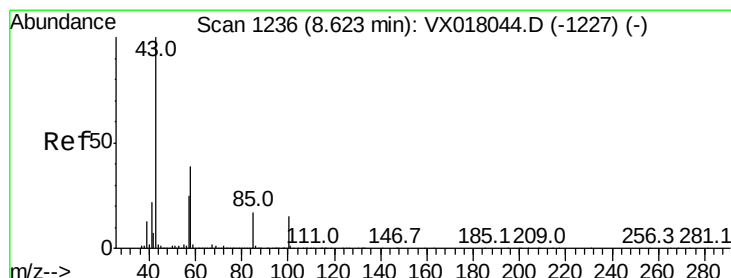
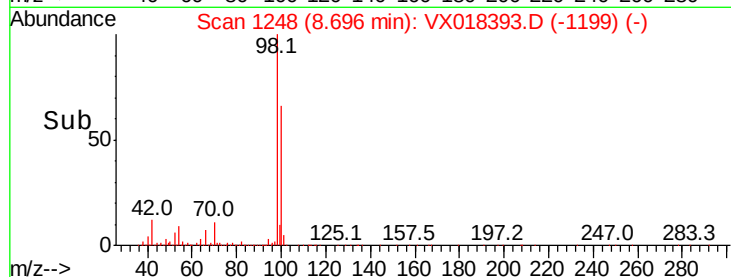
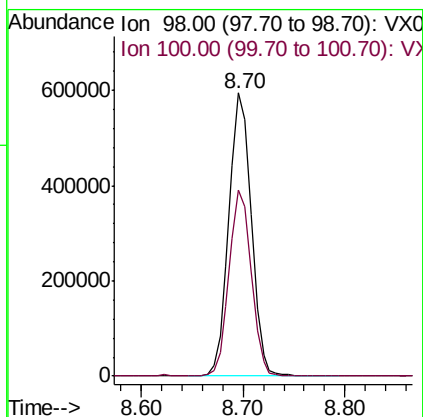
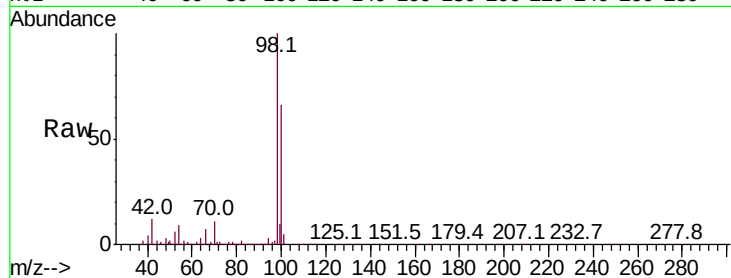
ClientSampleId :

Tot Ion: 98 Resp: 904252

Ion Ratio Lower Upper

98 100

100 65.1 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 16.899 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX018393.D

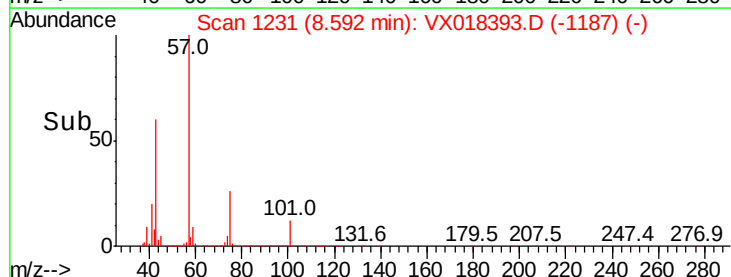
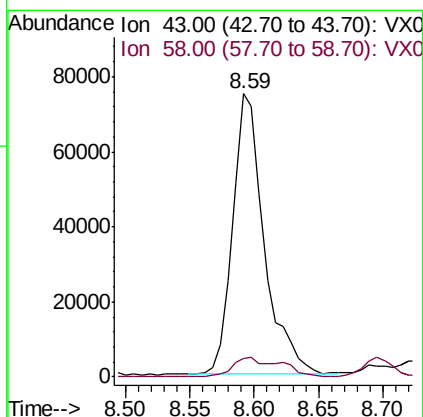
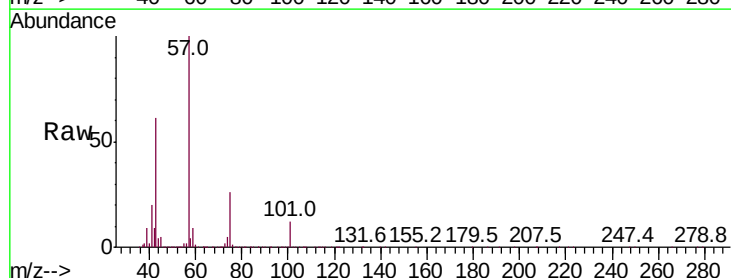
Acq: 14 Sep 2020 18:52

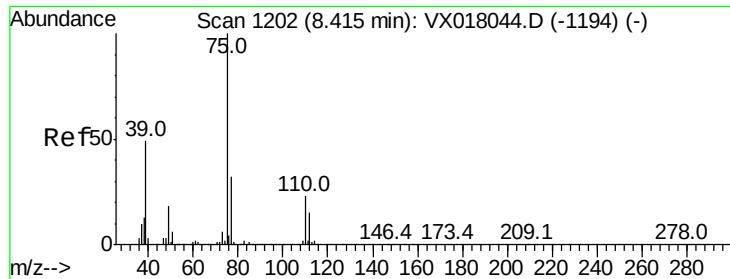
Tgt Ion: 43 Resp: 128233

Ion Ratio Lower Upper

43 100

58 8.0 30.7 46.1#



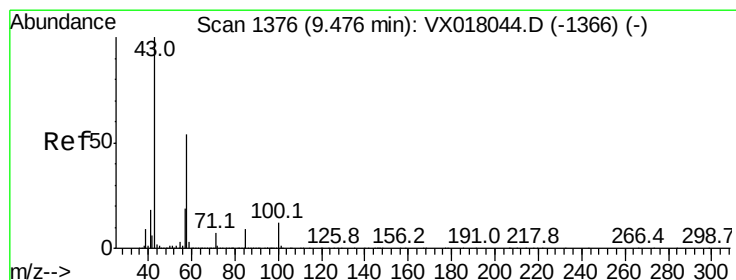
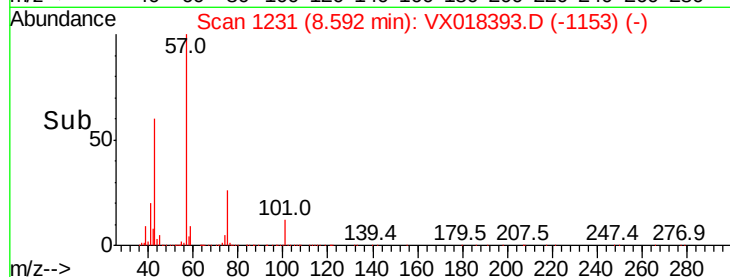
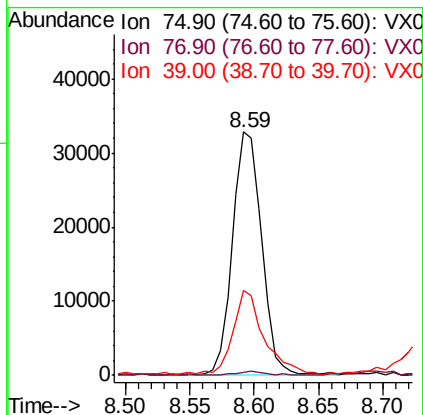
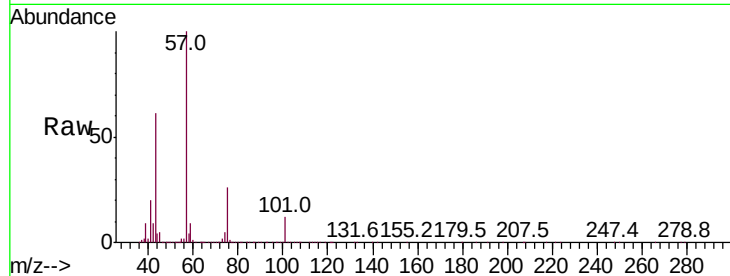


#54

cis-1,3-Dichloropropene
 Concen: 6.090 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX018393.D
 Acq: 14 Sep 2020 18:52

Instrument :
 MSVOA_X
 ClientSampleId :

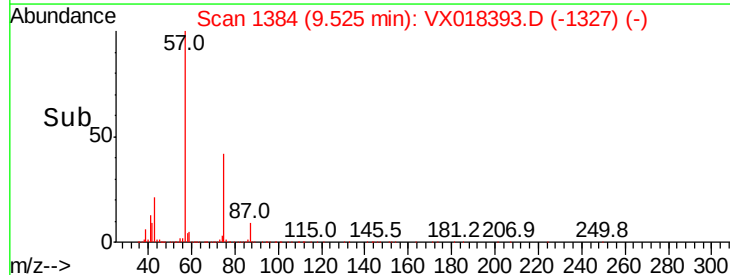
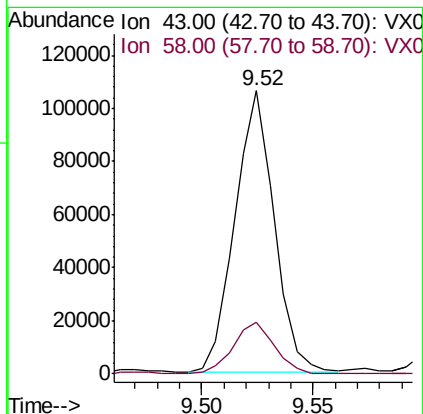
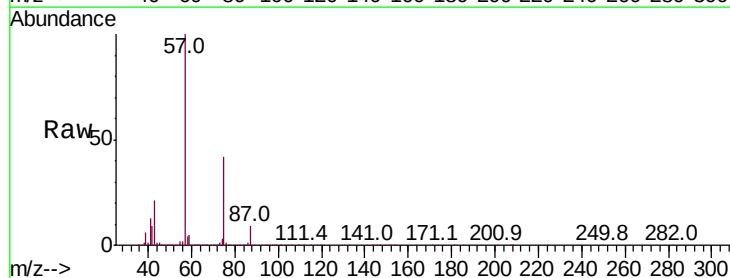
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.6	25.8	38.8#
39	34.0	38.8	58.2#

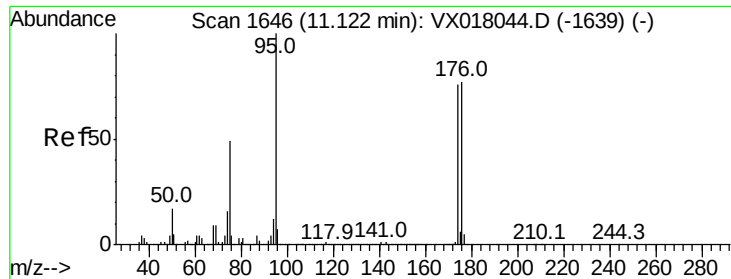


#59

2-Hexanone
 Concen: 22.463 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX018393.D
 Acq: 14 Sep 2020 18:52

Tgt Ion	Ratio	Lower	Upper
43	100		
58	19.4	26.6	79.7#





#62

4-Bromofluorobenzene

Concen: 48.762 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

Instrument :

MSVOA_X

ClientSampleId :

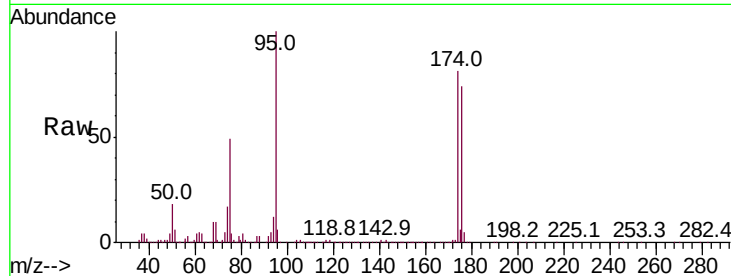
Tot Ion: 95 Resp: 345509

Ion Ratio Lower Upper

95 100

174 82.3 0.0 160.2

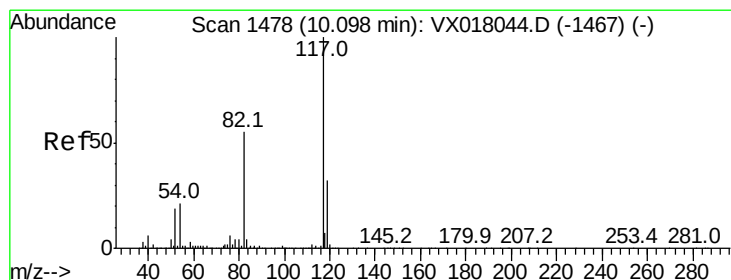
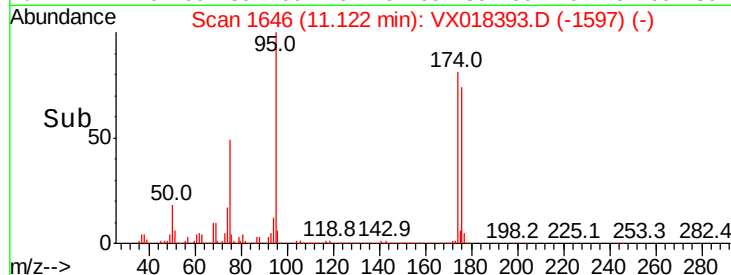
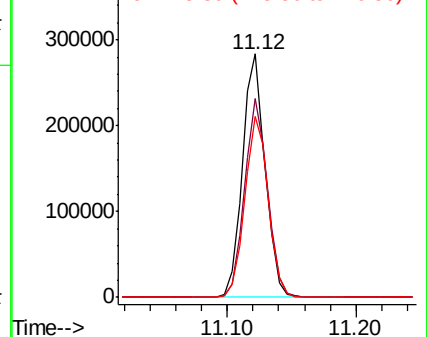
176 75.9 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX018044.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX018044.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX018044.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

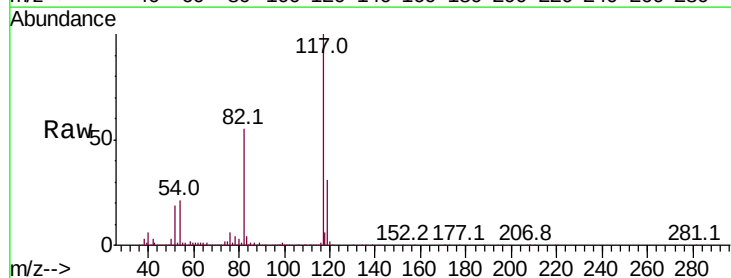
Tgt Ion: 117 Resp: 713721

Ion Ratio Lower Upper

117 100

82 55.0 44.2 66.2

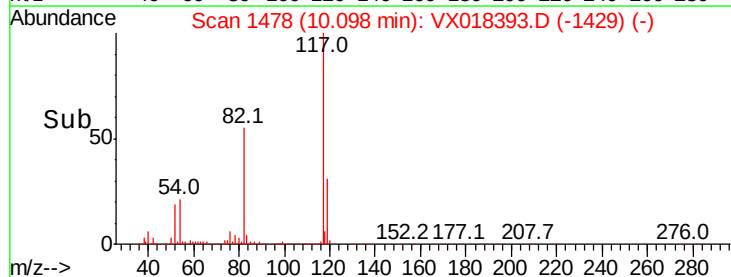
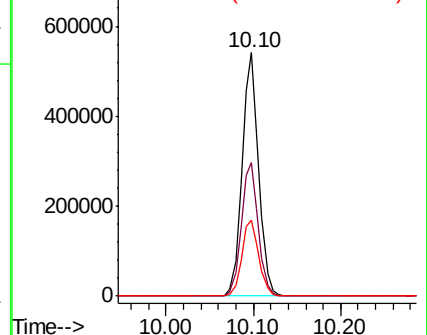
119 31.3 25.7 38.5

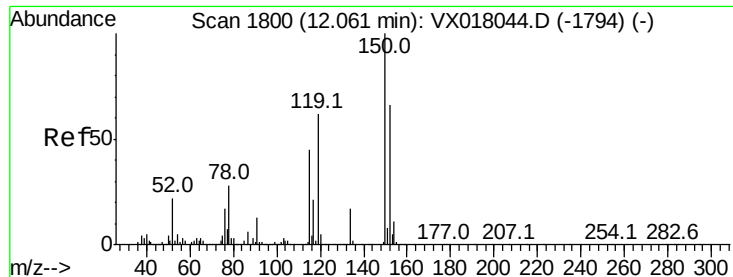


Abundance Ion 116.90 (116.60 to 117.60): VX018044.D (-1467) (-)

Ion 82.00 (81.70 to 82.70): VX018044.D (-1467) (-)

Ion 118.90 (118.60 to 119.60): VX018044.D (-1467) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

Instrument :

MSVOA_X

ClientSampled :

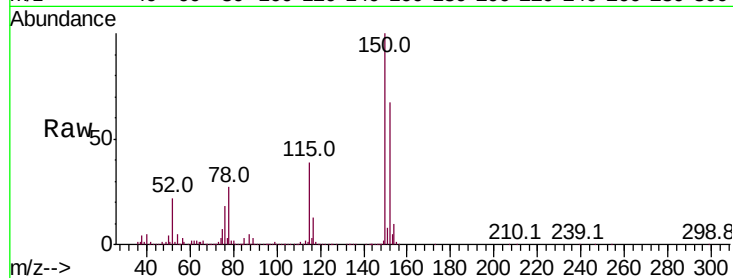
Tot Ion:152 Resp: 358380

Ion Ratio Lower Upper

152 100

115 56.6 41.5 124.5

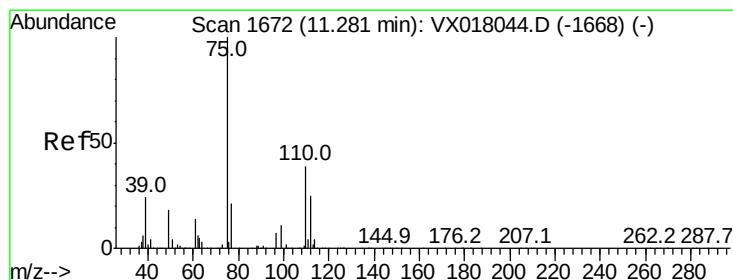
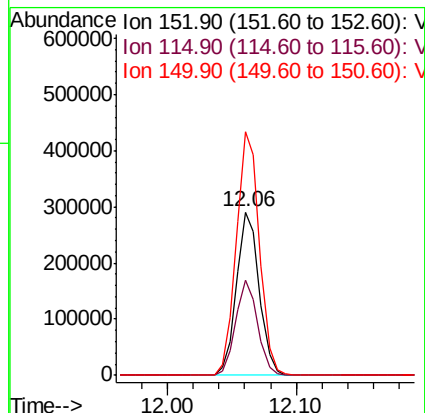
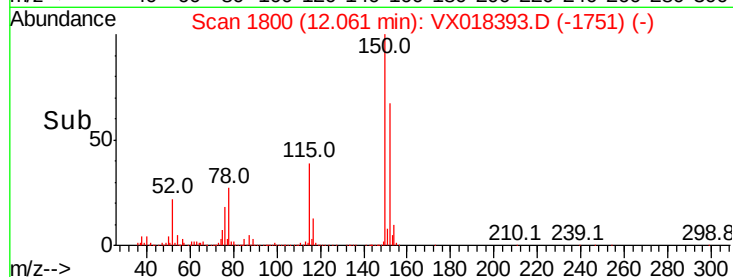
150 151.3 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.048 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018393.D

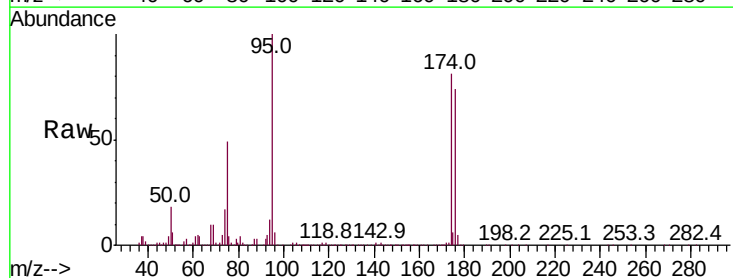
Acq: 14 Sep 2020 18:52

Tgt Ion: 75 Resp: 175775

Ion Ratio Lower Upper

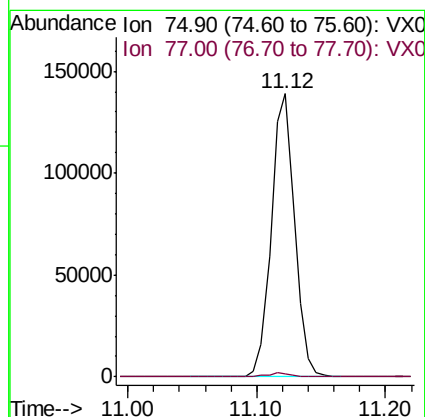
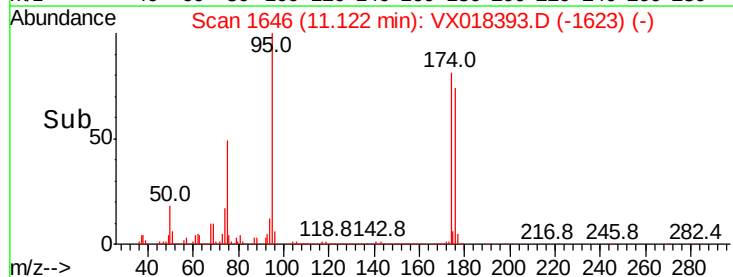
75 100

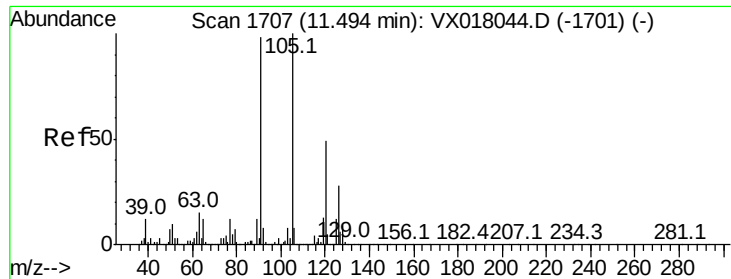
77 1.4 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.346 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

Instrument :

MSVOA_X

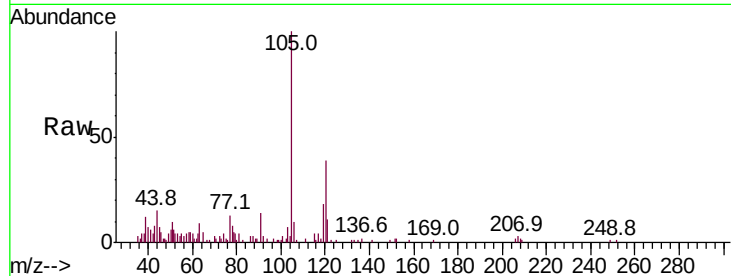
ClientSampleId :

Tot Ion:105 Resp: 6715

Ion Ratio Lower Upper

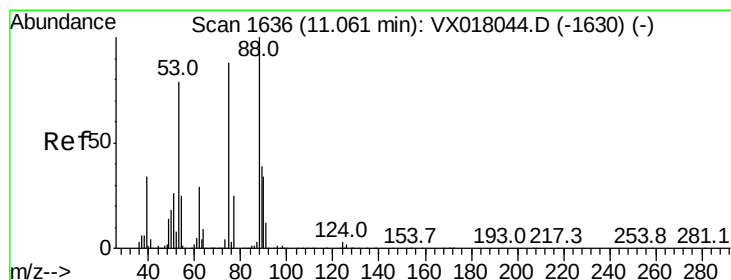
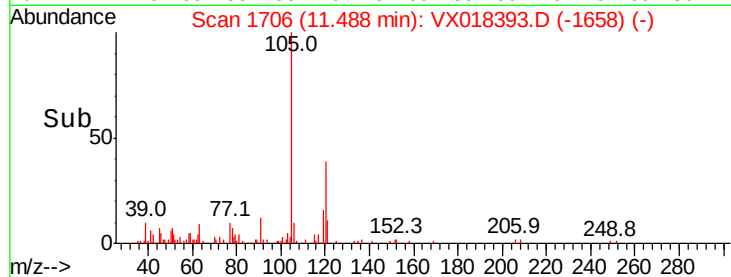
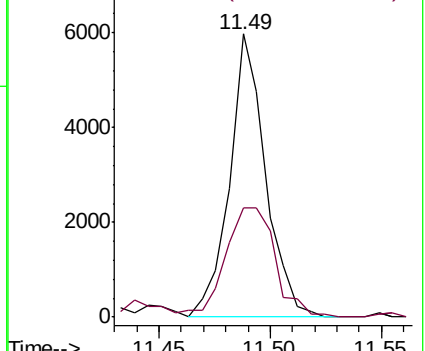
105 100

120 53.7 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 59.549 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018393.D

Acq: 14 Sep 2020 18:52

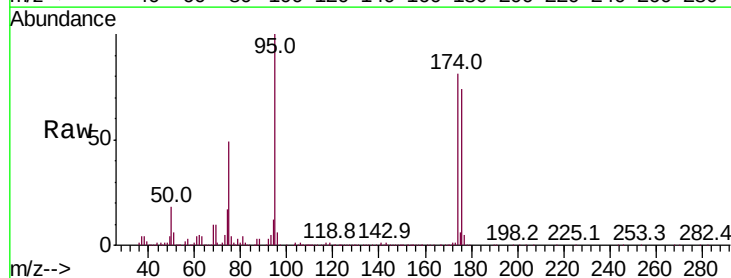
Tgt Ion: 75 Resp: 175775

Ion Ratio Lower Upper

75 100

53 0.3 74.7 112.1#

89 0.0 36.6 54.8#



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

