

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX082620\
 Data File : VX018078.D
 Acq On : 26 Aug 2020 15:33
 Operator : JC/SP
 Sample : L3784-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RO-10

Quant Time: Aug 27 04:05:06 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	448900	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	752843	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	690348	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	345596	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	323148	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
35) Dibromofluoromethane	5.46	113	242936	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	
50) Toluene-d8	8.70	98	879573	46.06	ug/l	0.00
Spiked Amount			Recovery	=	92.12%	
62) 4-Bromofluorobenzene	11.12	95	315411	41.98	ug/l	0.00
Spiked Amount			Recovery	=	83.96%	

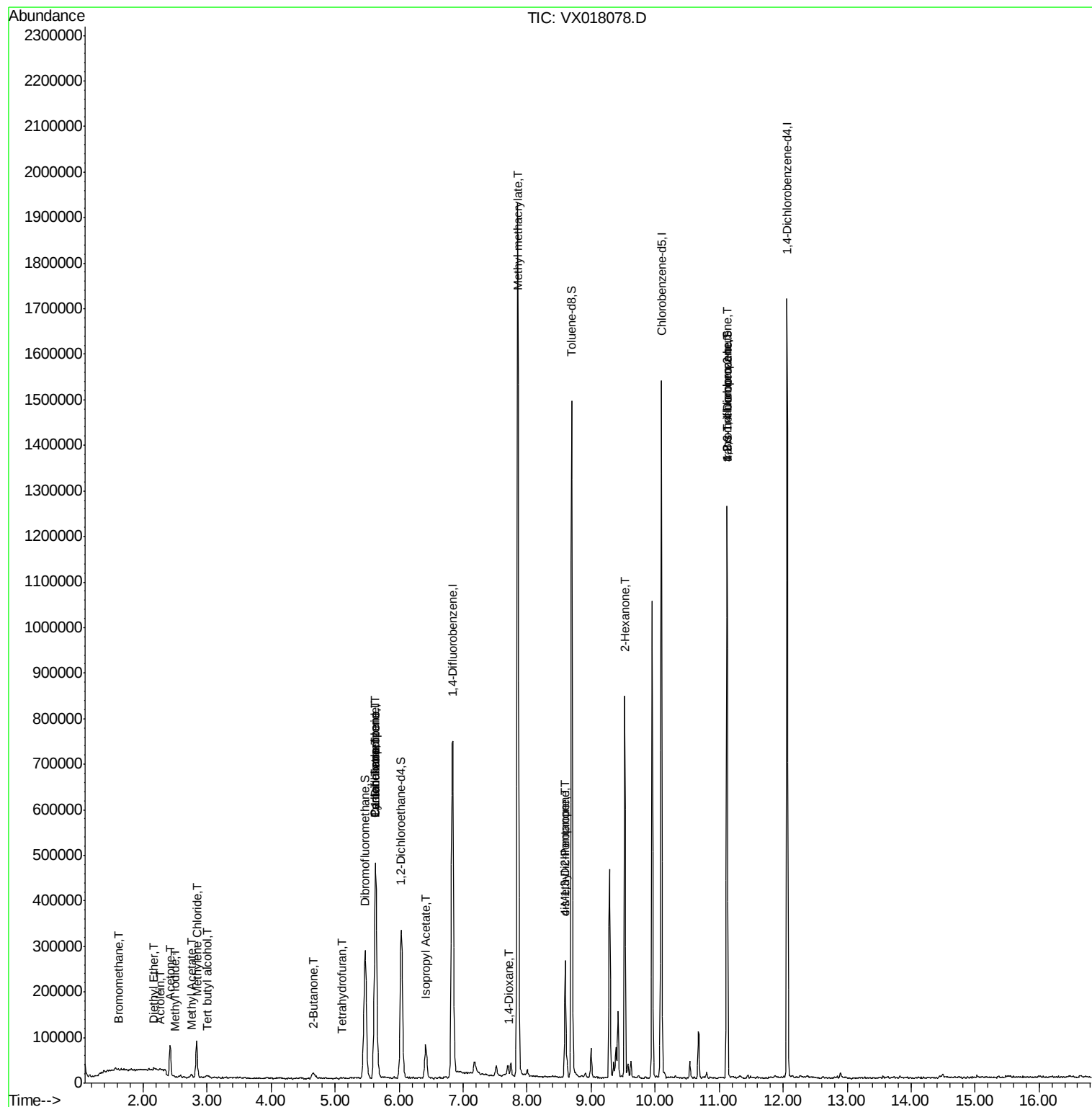
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	556	0.201	ug/l	99
8) Diethyl Ether	2.17	74	1451	0.547	ug/l	88
10) Methyl Iodide	2.50	142	269	5.340	ug/l #	80
11) Tert butyl alcohol	3.01	59	5370	4.432	ug/l #	84
13) Acrolein	2.27	56	597	1.188	ug/l #	65
16) Acetone	2.42	43	74817	30.810	ug/l	97
18) Methyl Acetate	2.75	43	8541	1.458	ug/l	91
20) Methylene Chloride	2.84	84	37117	6.458	ug/l	98
25) 2-Butanone	4.65	43	11045	2.768	ug/l	95
29) Tetrahydrofuran	5.10	42	1441	0.567	ug/l #	74
31) Cyclohexane	5.63	56	9863	1.322	ug/l #	9
36) 1,1-Dichloropropene	5.63	75	33520	4.827	ug/l #	53
38) Carbon Tetrachloride	5.63	117	45742	5.845	ug/l #	19
43) Isopropyl Acetate	6.42	43	100812	7.739	ug/l	96
48) Methyl methacrylate	7.85	41	166456	25.670	ug/l #	45
49) 1,4-Dioxane	7.71	88	222	1.890	ug/l #	23
51) 4-Methyl-2-Pentanone	8.60	43	100653	12.509	ug/l #	46
54) cis-1,3-Dichloropropene	8.60	75	42102	4.644	ug/l #	60
59) 2-Hexanone	9.52	43	90045	14.717	ug/l #	52
76) 1,2,3-Trichloropropane	11.12	75	164693	21.422	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	164693	57.858	ug/l #	12

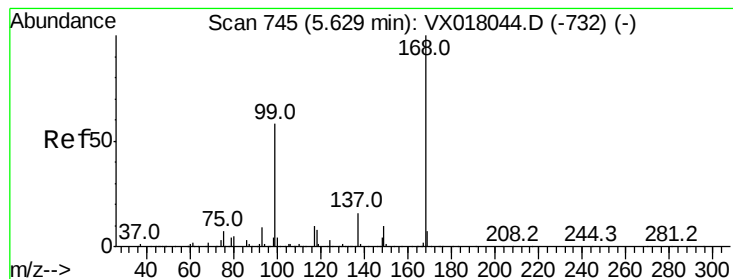
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
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: VX018078.D

Acq: 26 Aug 2020 15:33

Instrument :

MSVOA_X

ClientSampleId :

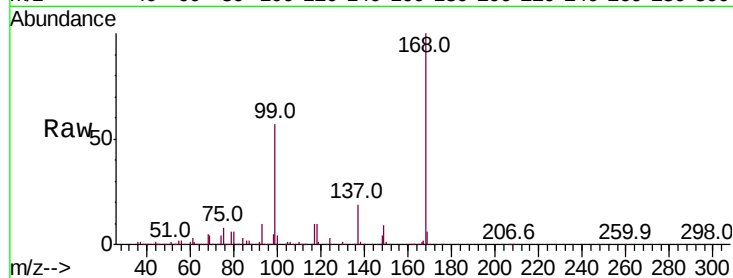
RO-10

Tot Ion:168 Resp: 448900

Ion Ratio Lower Upper

168 100

99 57.2 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

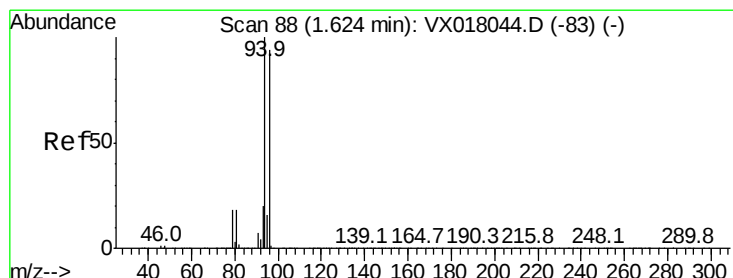
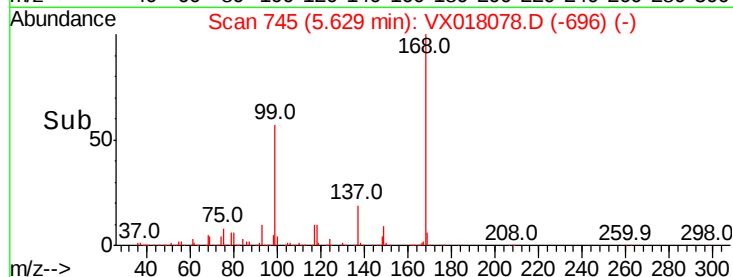
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.201 ug/l

RT: 1.62 min Scan# 88

Delta R.T. -0.00 min

Lab File: VX018078.D

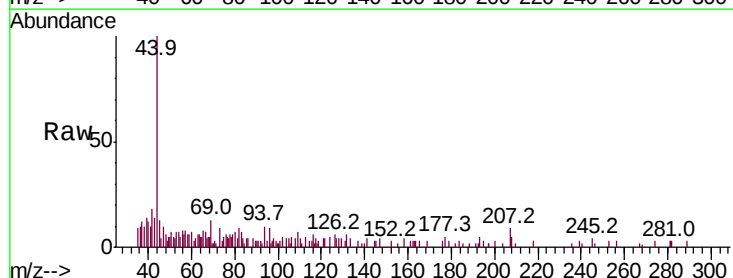
Acq: 26 Aug 2020 15:33

Tgt Ion: 94 Resp: 556

Ion Ratio Lower Upper

94 100

96 92.9 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

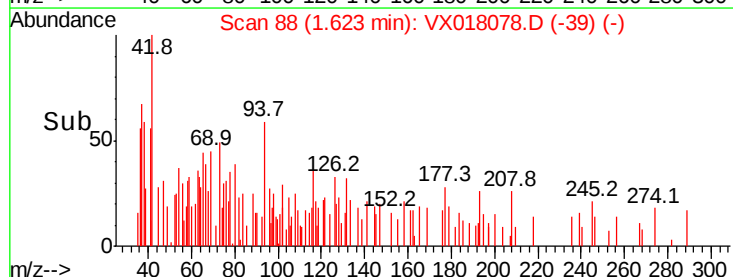
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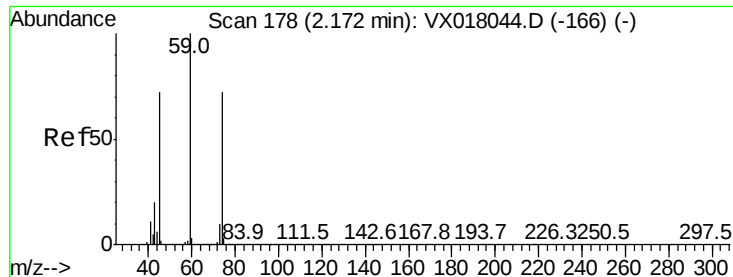
200

100

0

Time-->

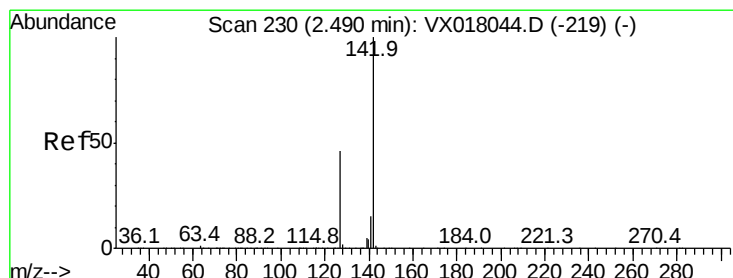
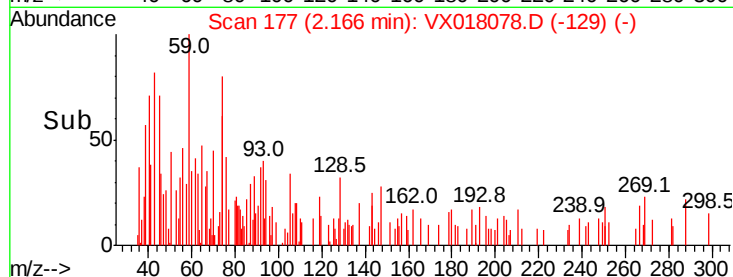
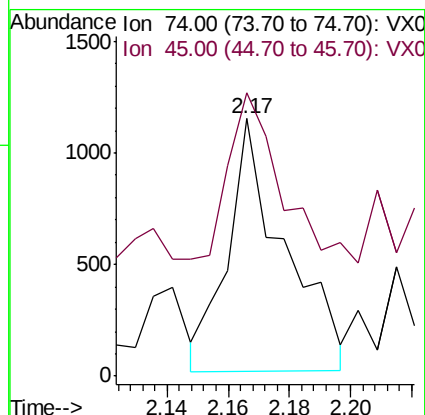
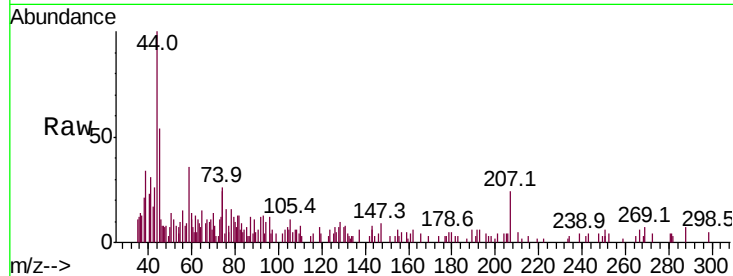




#8
Diethyl Ether
Concen: 0.547 ug/l
RT: 2.17 min Scan# 177
Delta R.T. -0.01 min
Lab File: VX018078.D
Acq: 26 Aug 2020 15:33

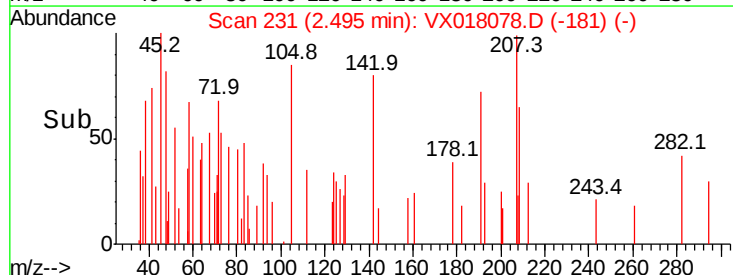
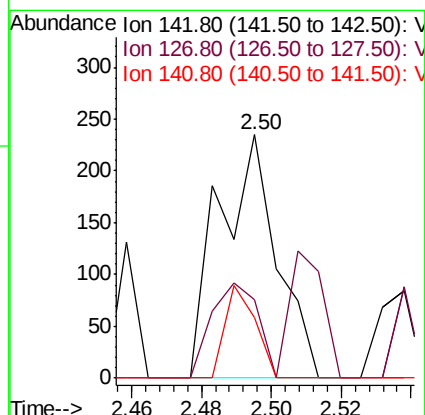
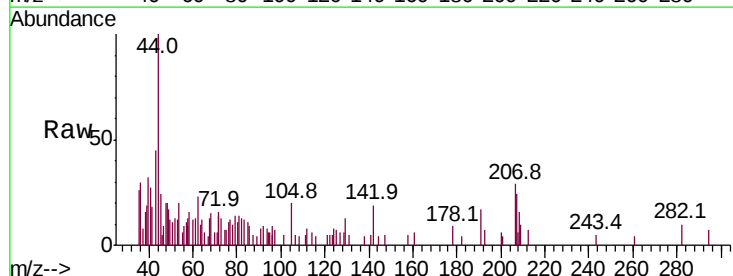
Instrument :
MSVOA_X
ClientSampled :
RO-10

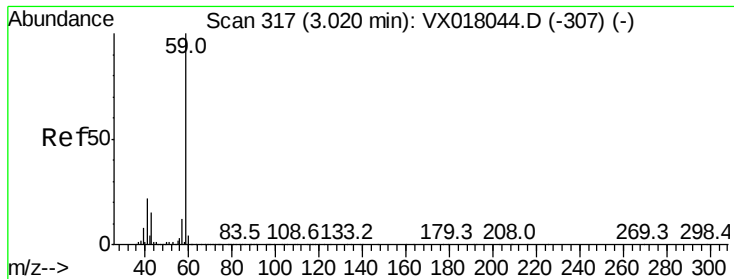
Tot Ion: 74 Resp: 1451
Ion Ratio Lower Upper
74 100
45 89.7 50.7 152.3



#10
Methyl Iodide
Concen: 5.340 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX018078.D
Acq: 26 Aug 2020 15:33

Tgt Ion: 142 Resp: 269
Ion Ratio Lower Upper
142 100
127 31.6 37.0 55.6#
141 20.1 11.5 17.3#



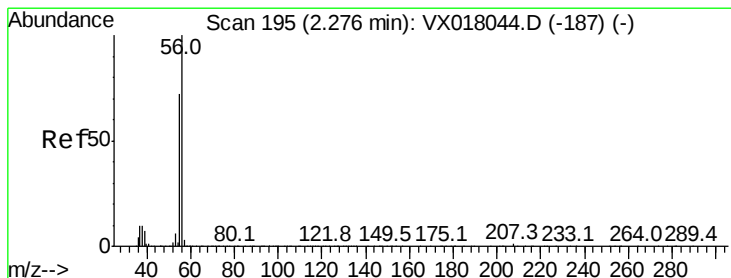
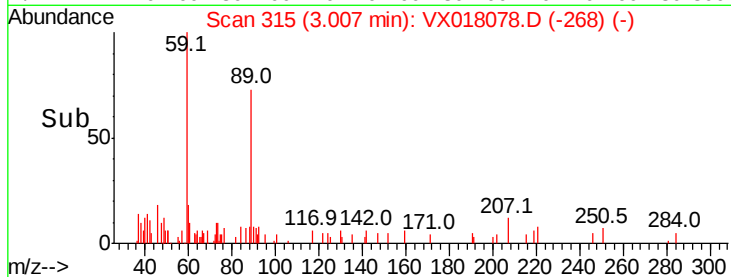
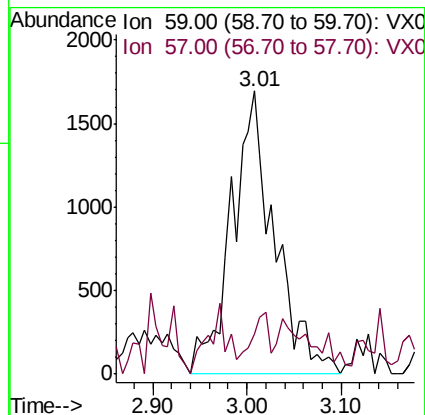
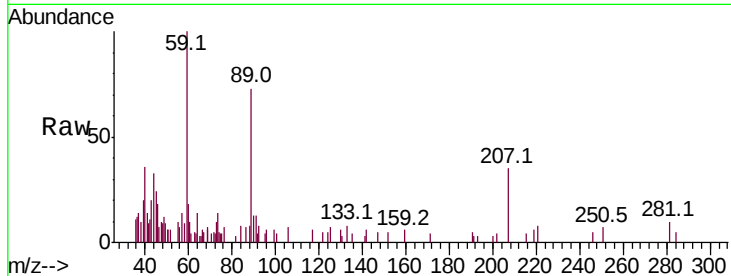


#11

Tert butyl alcohol
 Concen: 4.432 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX018078.D
 Acq: 26 Aug 2020 15:33

Instrument :
 MSVOA_X
 ClientSampleId :
 RO-10

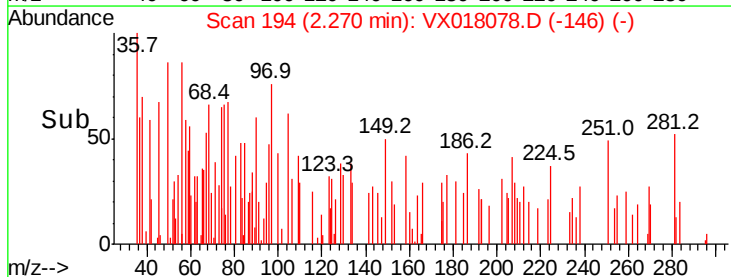
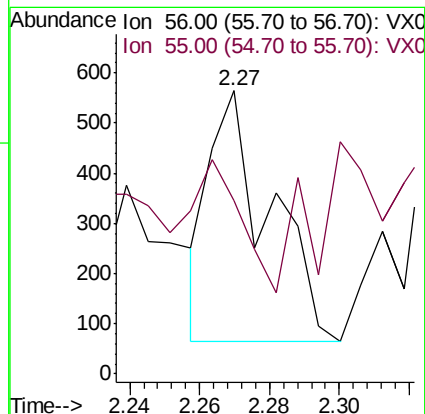
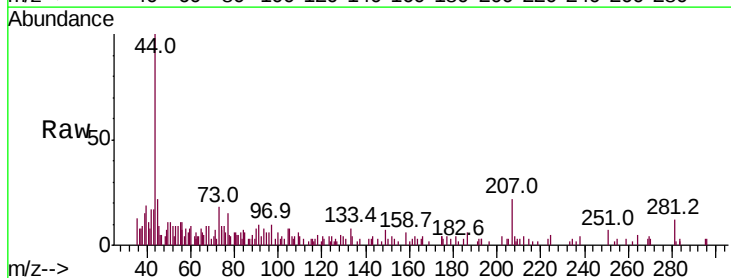
Tot Ion: 59 Resp: 5370
 Ion Ratio Lower Upper
 59 100
 57 5.0 8.9 13.3#

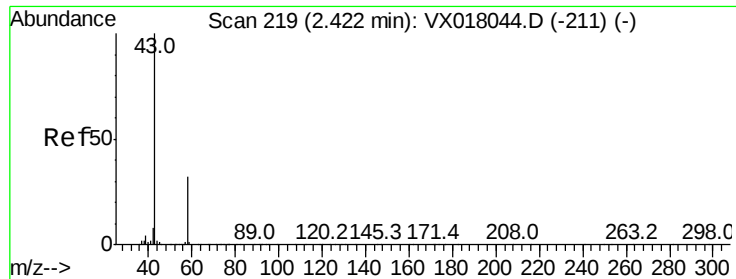


#13

Acrolein
 Concen: 1.188 ug/l
 RT: 2.27 min Scan# 194
 Delta R.T. -0.01 min
 Lab File: VX018078.D
 Acq: 26 Aug 2020 15:33

Tgt Ion: 56 Resp: 597
 Ion Ratio Lower Upper
 56 100
 55 42.5 57.0 85.6#

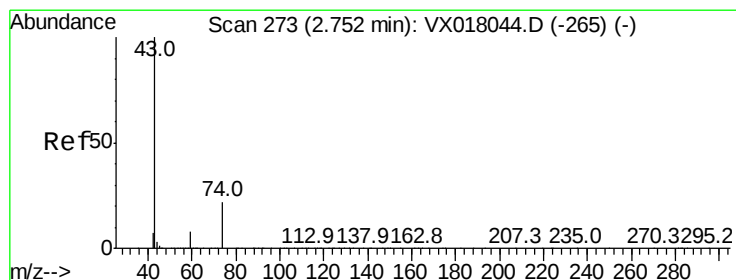
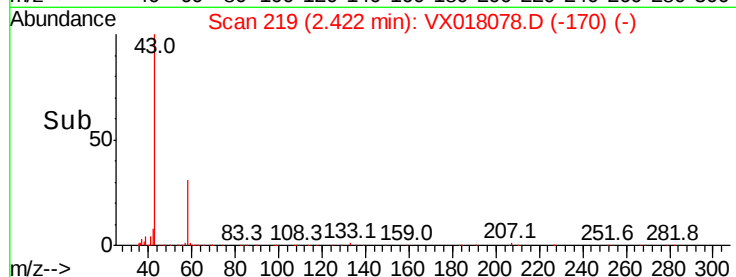
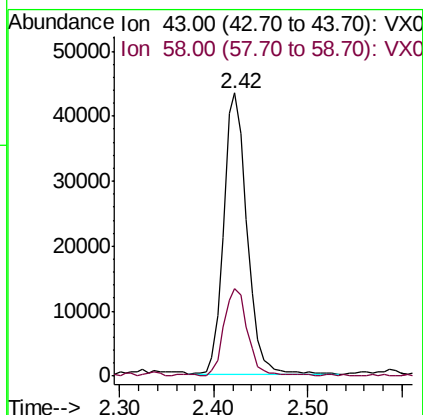
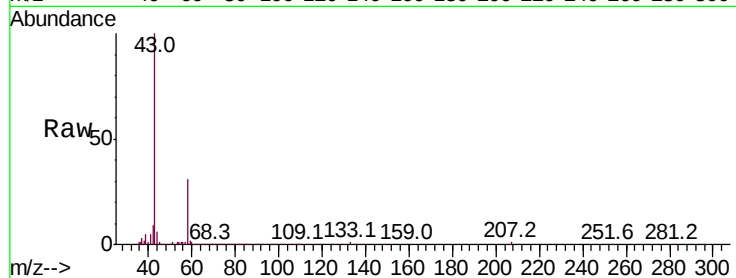




#16
Acetone
Concen: 30.810 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX018078.D
Acq: 26 Aug 2020 15:33

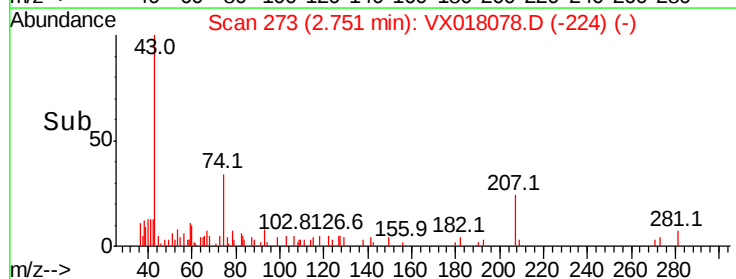
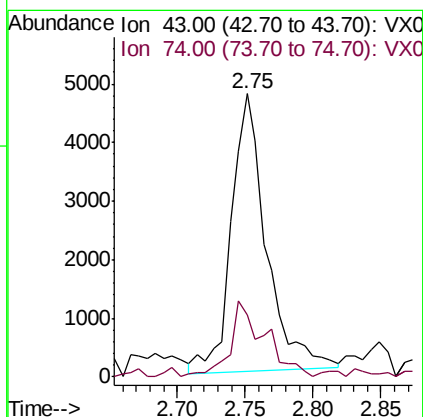
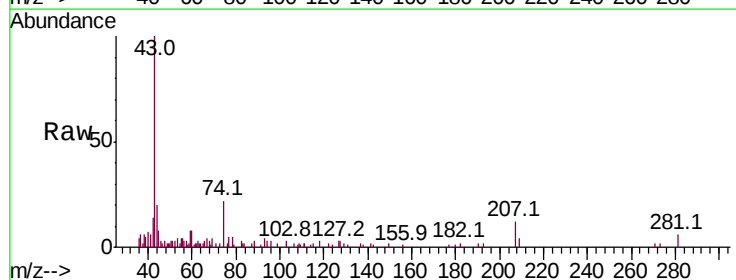
Instrument :
MSVOA_X
ClientSampleId :
RO-10

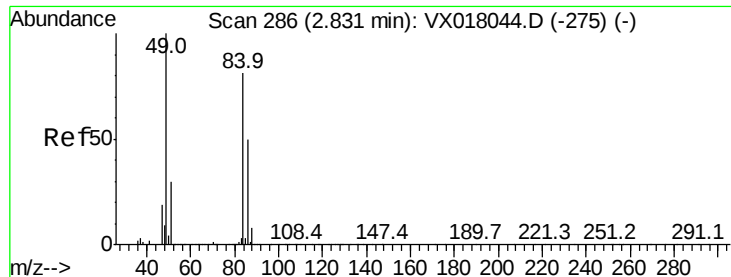
Tot Ion: 43 Resp: 74817
Ion Ratio Lower Upper
43 100
58 30.5 25.5 38.3



#18
Methyl Acetate
Concen: 1.458 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX018078.D
Acq: 26 Aug 2020 15:33

Tgt Ion: 43 Resp: 8541
Ion Ratio Lower Upper
43 100
74 27.0 18.2 27.4

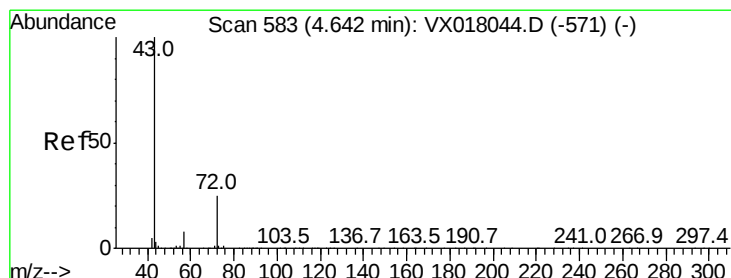
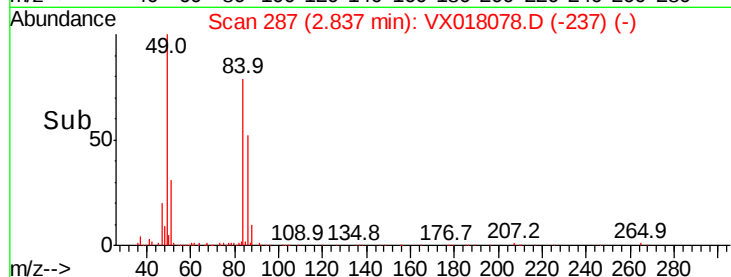
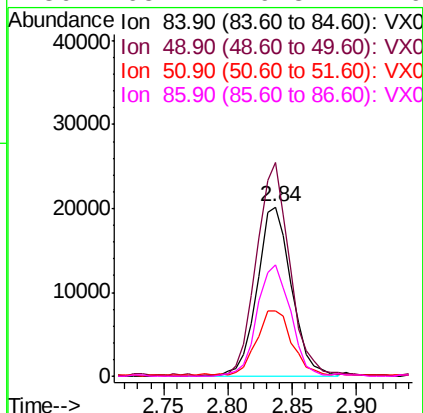
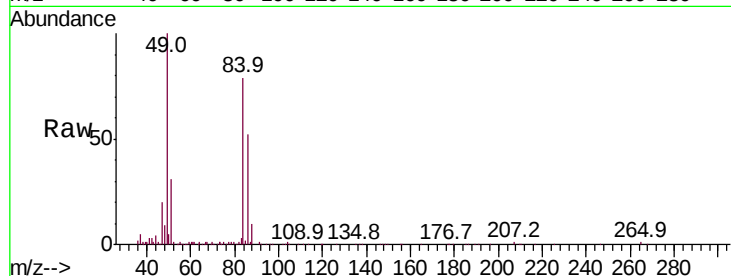




#20
Methvlene Chloride
Concen: 6.458 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018078.D
Acq: 26 Aug 2020 15:33

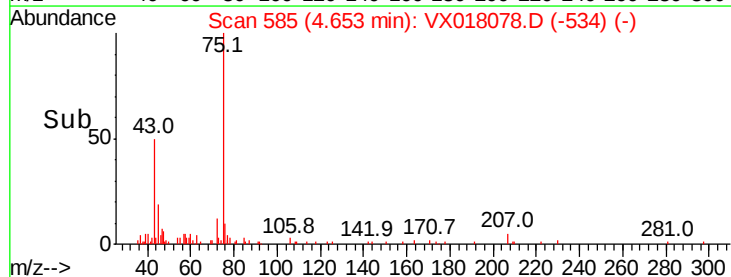
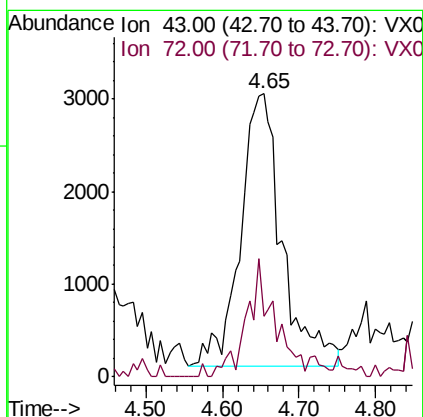
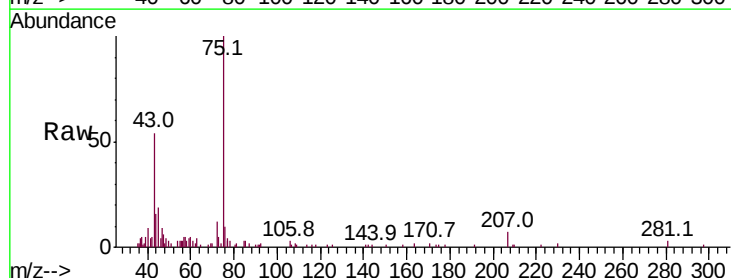
Instrument :
MSVOA_X
ClientSampleId :
RO-10

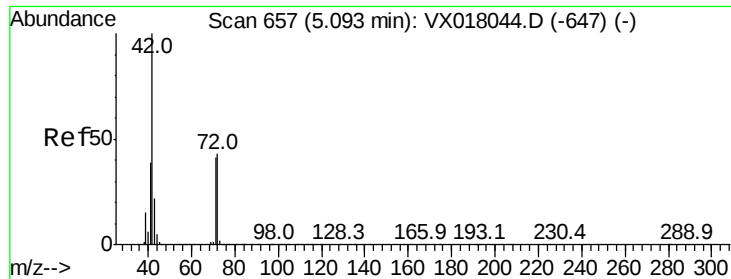
Tot Ion:	84	Resp:	37117
Ion	Ratio	Lower	Upper
84	100		
49	124.9	98.6	148.0
51	38.2	29.6	44.4
86	65.7	49.8	74.6



#25
2-Butanone
Concen: 2.768 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VX018078.D
Acq: 26 Aug 2020 15:33

Tgt Ion:	43	Resp:	11045
Ion	Ratio	Lower	Upper
43	100		
72	22.4	19.8	29.6





#29

Tetrahydrofuran

Concen: 0.567 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

Instrument :

MSVOA_X

ClientSampled :

RO-10

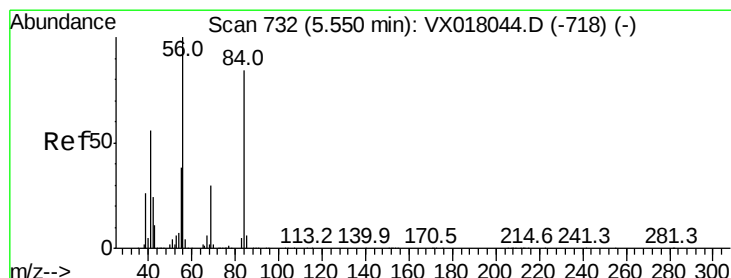
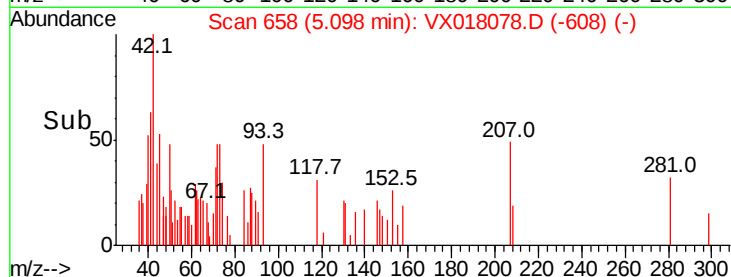
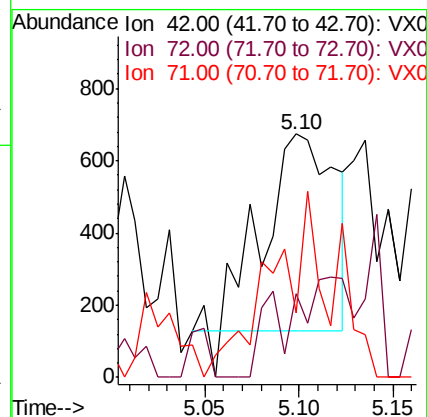
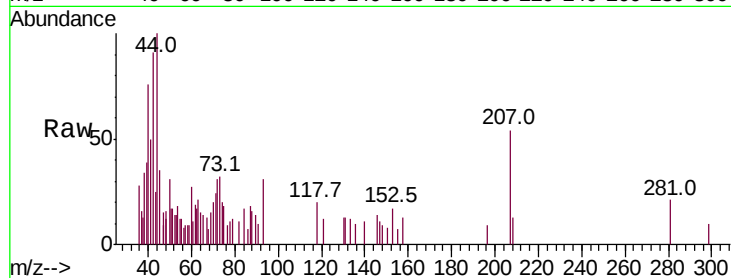
Tot Ion: 42 Resp: 1441

Ion Ratio Lower Upper

42 100

72 12.7 34.2 51.4#

71 38.6 32.1 48.1



#31

Cyclohexane

Concen: 1.322 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

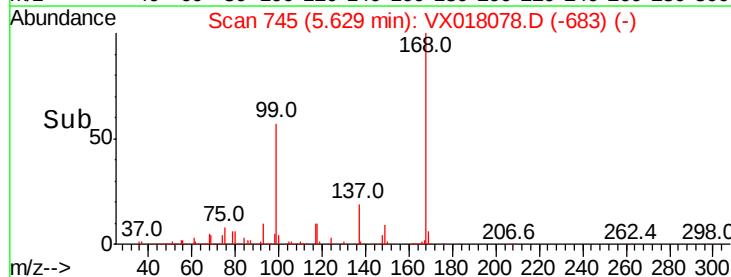
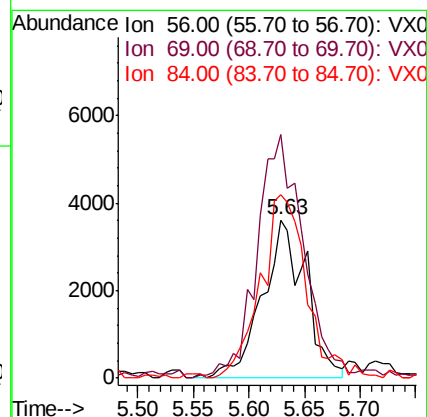
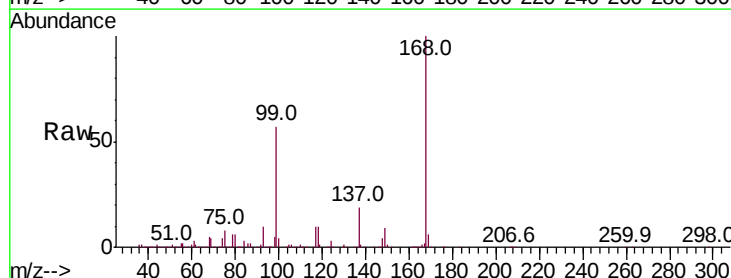
Tgt Ion: 56 Resp: 9863

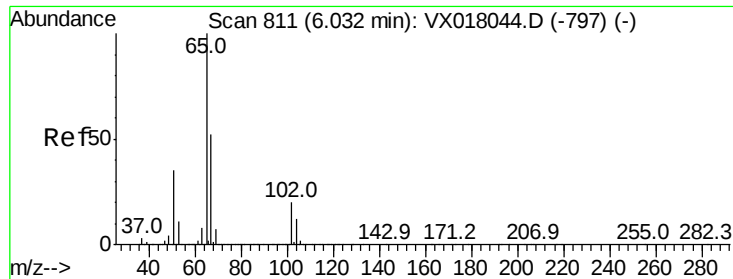
Ion Ratio Lower Upper

56 100

69 159.6 23.9 35.9#

84 117.7 67.0 100.4#





#33

1,2-Dichloroethane-d4

Concen: 51.854 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

Instrument :

MSVOA_X

ClientSampled :

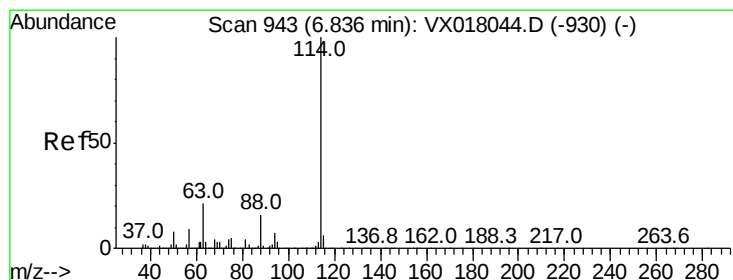
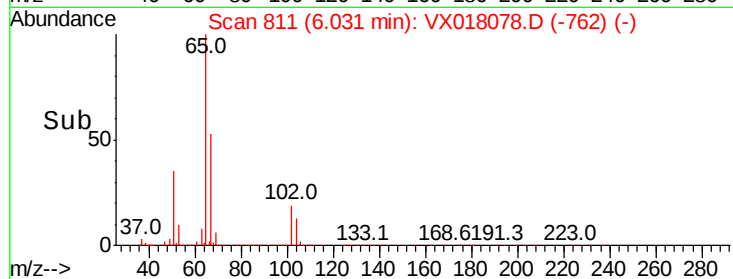
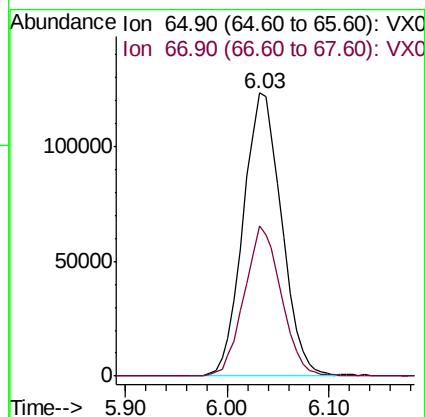
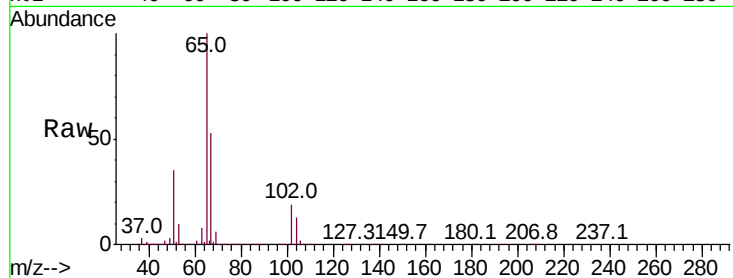
RO-10

Tot Ion: 65 Resp: 323148

Ion Ratio Lower Upper

65 100

67 51.2 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: VX018078.D

Acq: 26 Aug 2020 15:33

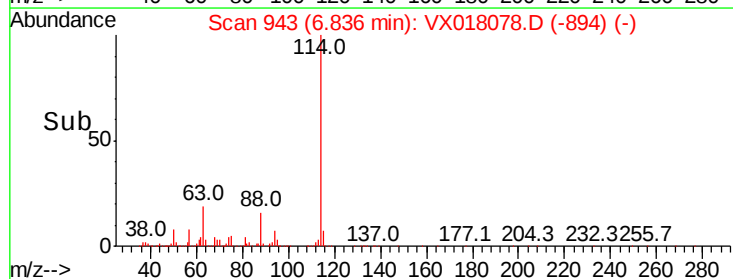
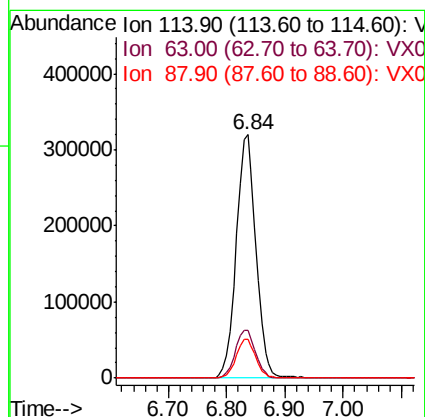
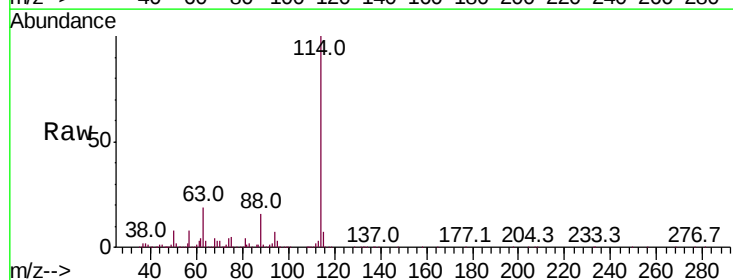
Tgt Ion: 114 Resp: 752843

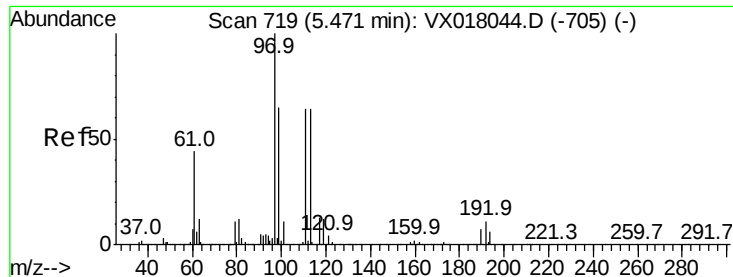
Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.6

88 16.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.382 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

Instrument :

MSVOA_X

ClientSampleId :

RO-10

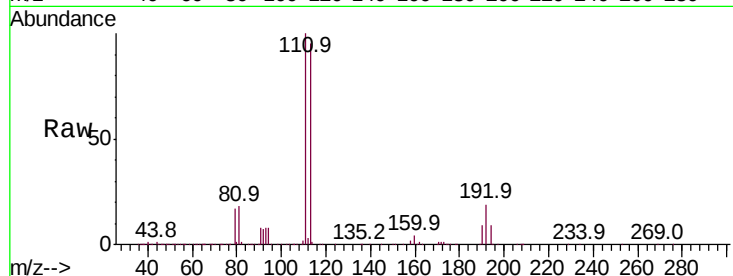
Tot Ion:113 Resp: 242936

Ion Ratio Lower Upper

113 100

111 104.2 81.6 122.4

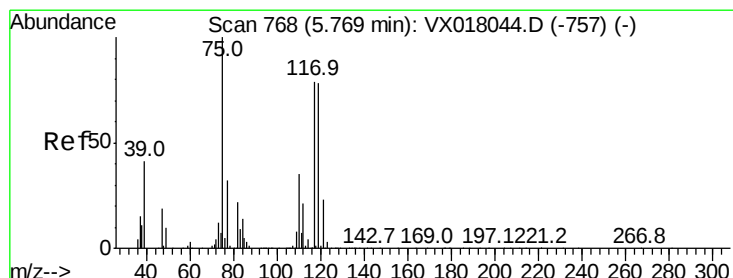
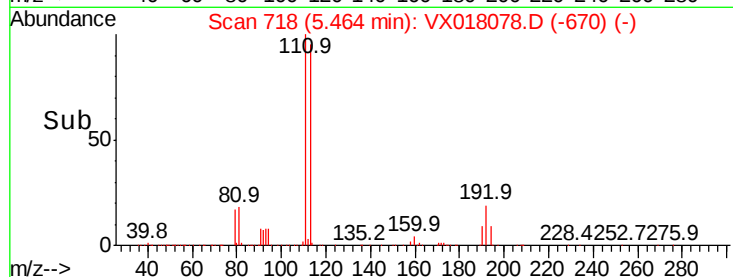
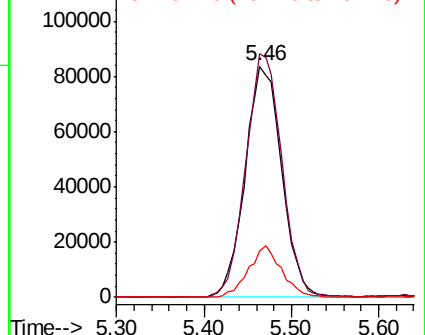
192 20.1 15.8 23.8



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: 4.827 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

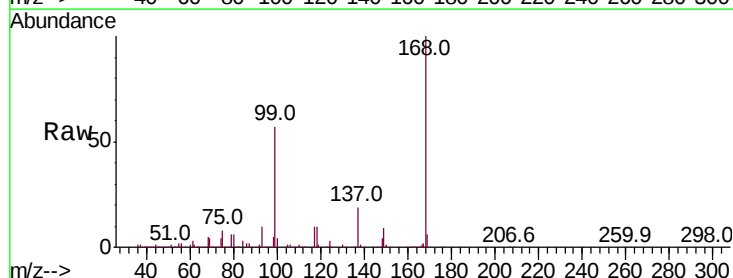
Tgt Ion: 75 Resp: 33520

Ion Ratio Lower Upper

75 100

110 11.6 18.0 54.0#

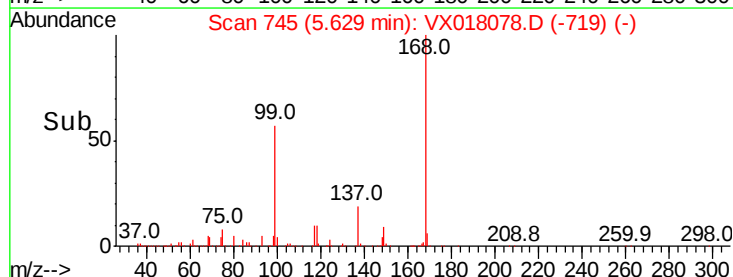
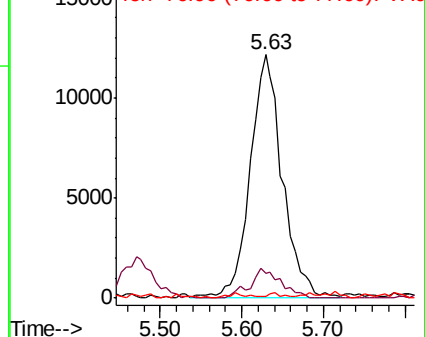
77 0.8 24.4 36.6#

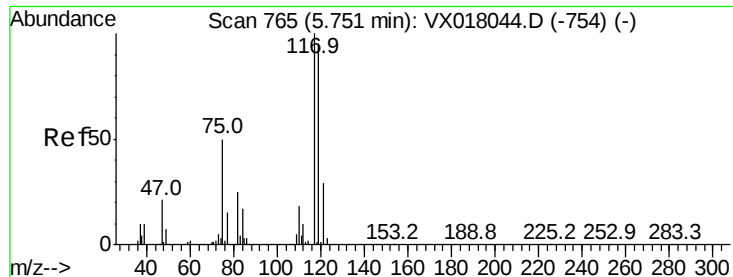


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.845 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

Instrument :

MSVOA_X

ClientSampleId :

RO-10

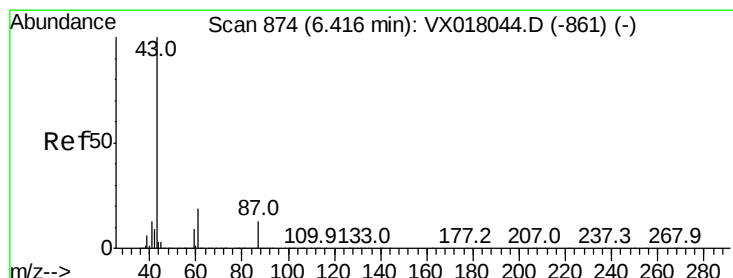
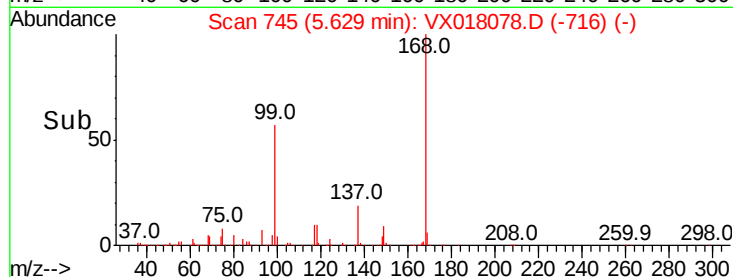
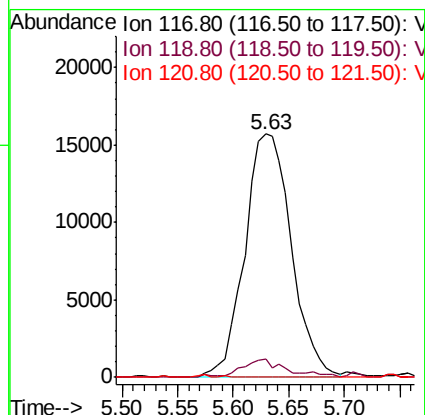
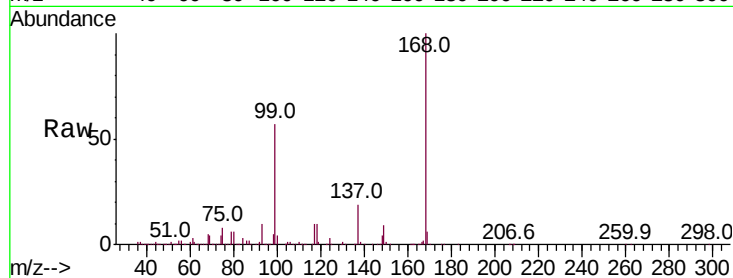
Tot Ion:117 Resp: 45742

Ion Ratio Lower Upper

117 100

119 7.7 75.8 113.6#

121 0.0 23.4 35.0#



#43

Isopropyl Acetate

Concen: 7.739 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

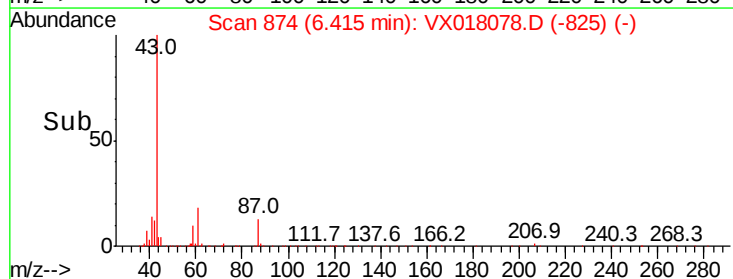
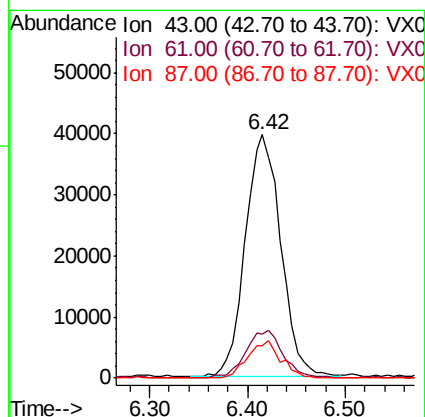
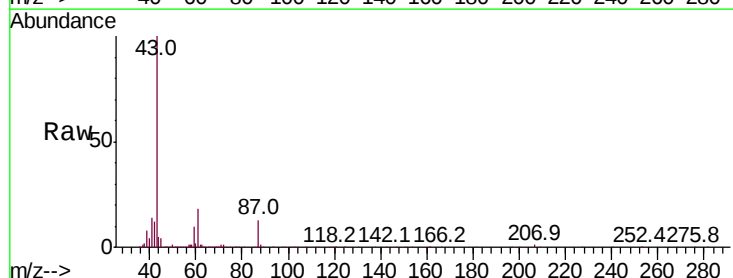
Tgt Ion: 43 Resp: 100812

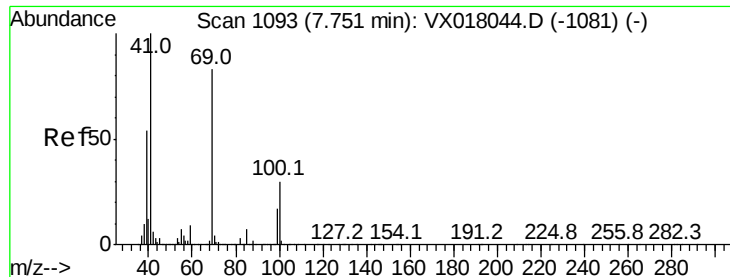
Ion Ratio Lower Upper

43 100

61 21.0 15.7 23.5

87 14.7 10.3 15.5





#48

Methyl methacrylate

Concen: 25.670 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.10 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

Instrument :

MSVOA_X

ClientSampled :

RO-10

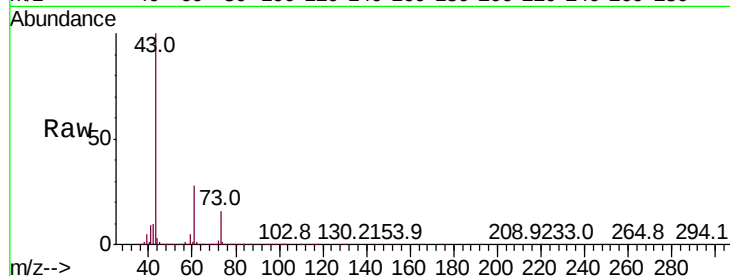
Tot Ion: 41 Resp: 166456

Ion Ratio Lower Upper

41 100

69 0.5 65.5 98.3#

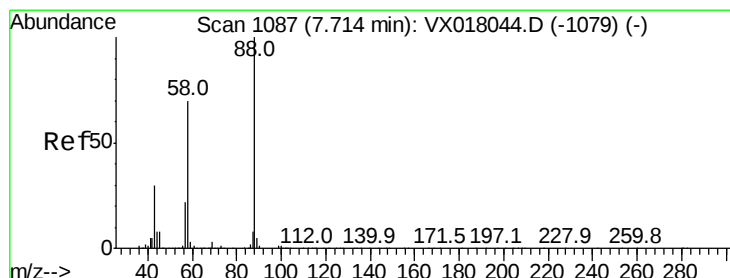
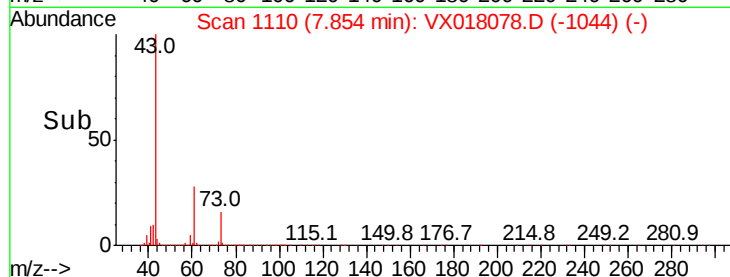
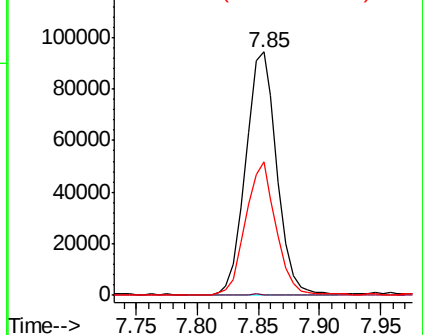
39 53.6 44.5 66.7



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: 1.890 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

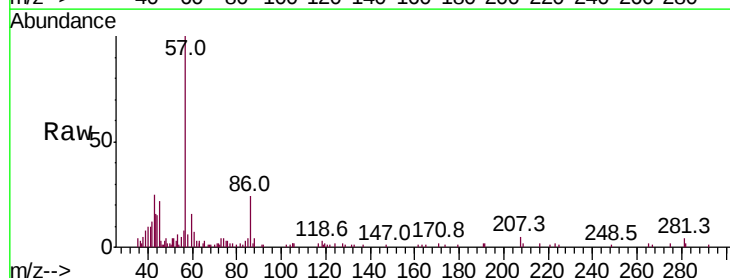
Tgt Ion: 88 Resp: 222

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

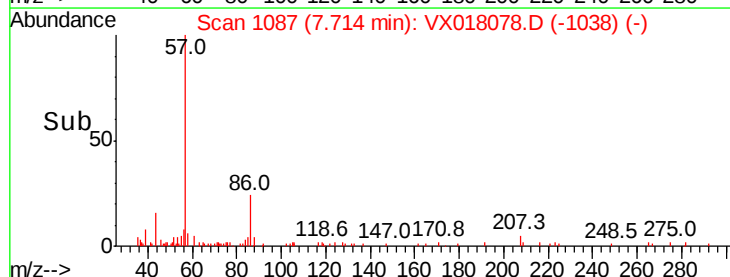
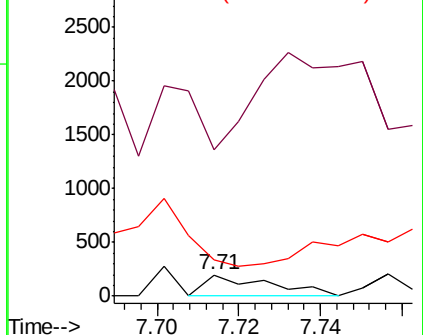
58 0.0 56.4 84.6#

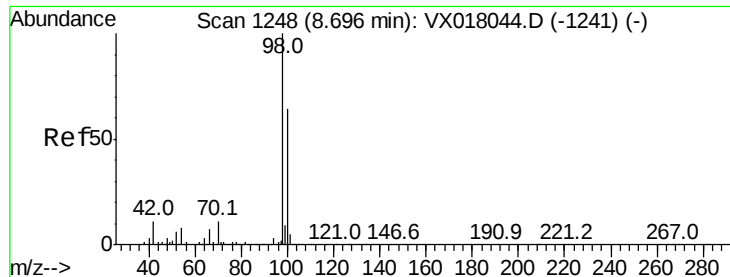


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 46.059 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

Instrument :

MSVOA_X

ClientSampleId :

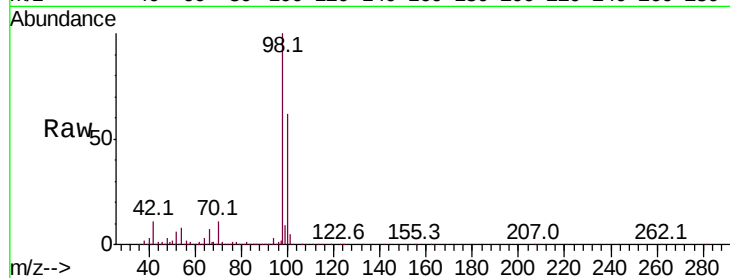
RO-10

Tot Ion: 98 Resp: 879573

Ion Ratio Lower Upper

98 100

100 63.5 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

600000

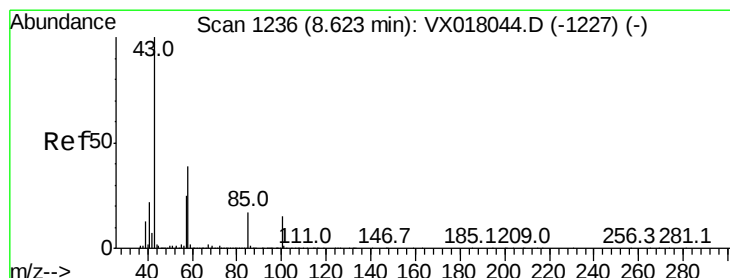
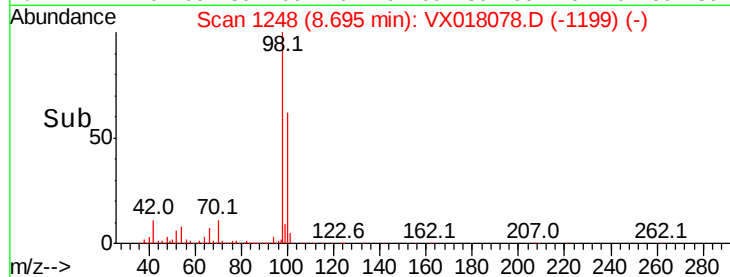
400000

200000

0

Time-->

8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 12.509 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX018078.D

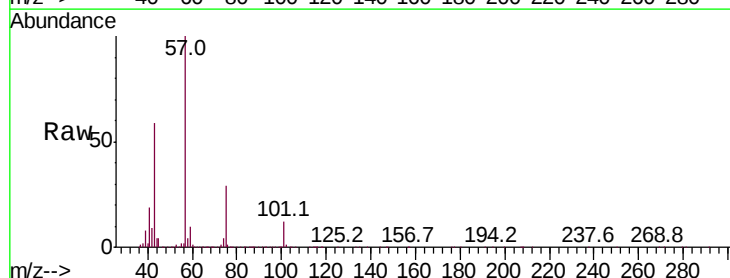
Acq: 26 Aug 2020 15:33

Tgt Ion: 43 Resp: 100653

Ion Ratio Lower Upper

43 100

58 5.7 30.7 46.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.60

60000

50000

40000

30000

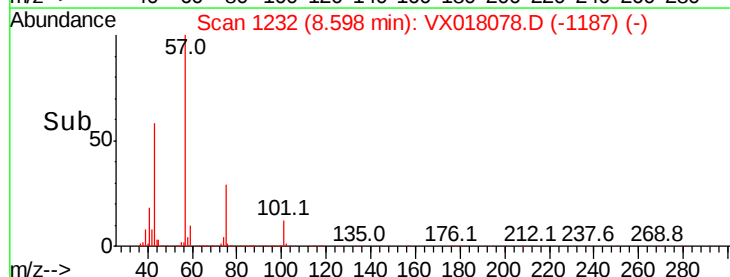
20000

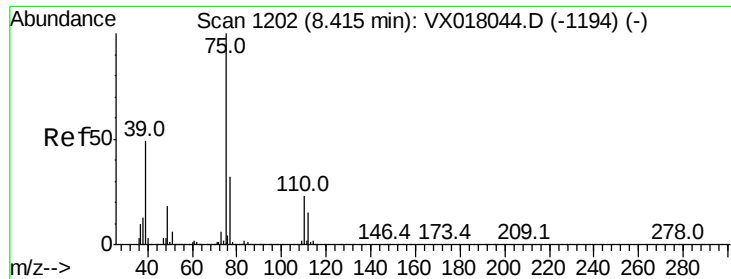
10000

0

Time-->

8.50 8.55 8.60 8.65





#54

cis-1,3-Dichloropropene

Concen: 4.644 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

Instrument :

MSVOA_X

ClientSampleId :

RO-10

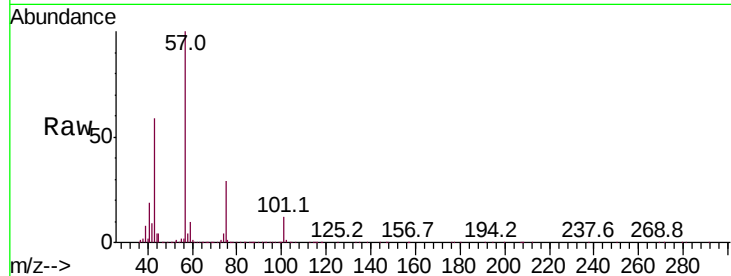
Tot Ion: 75 Resp: 42102

Ion Ratio Lower Upper

75 100

77 1.0 25.8 38.8#

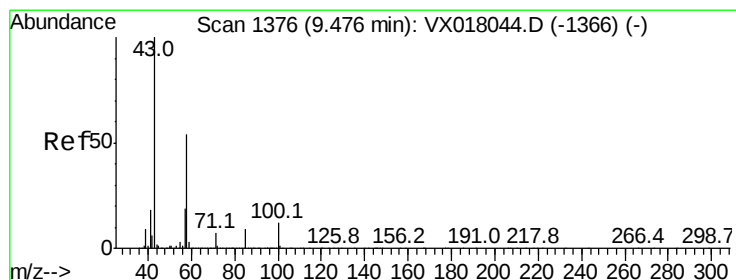
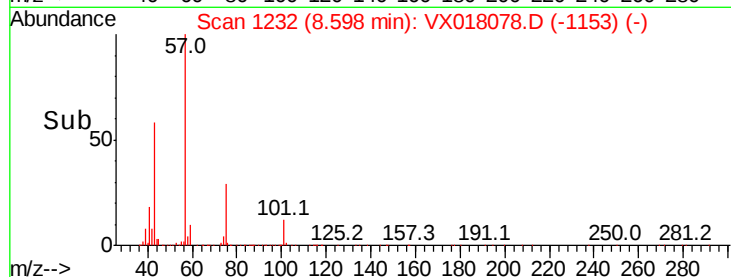
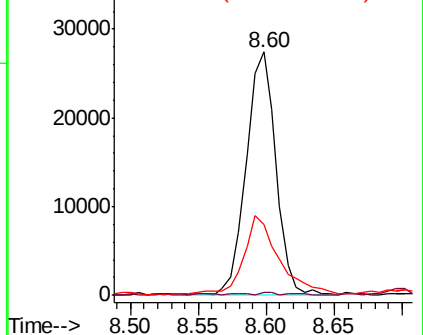
39 28.3 38.8 58.2#



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



#59

2-Hexanone

Concen: 14.717 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX018078.D

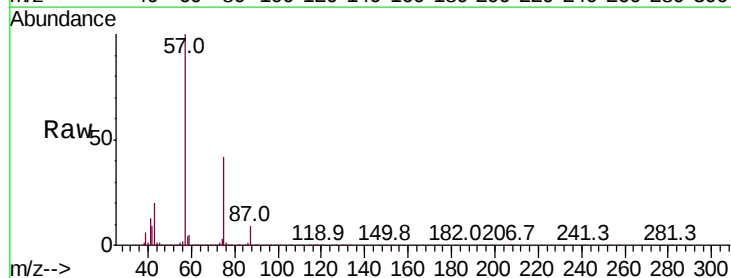
Acq: 26 Aug 2020 15:33

Tgt Ion: 43 Resp: 90045

Ion Ratio Lower Upper

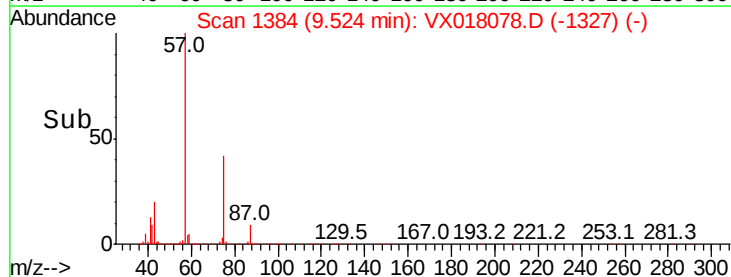
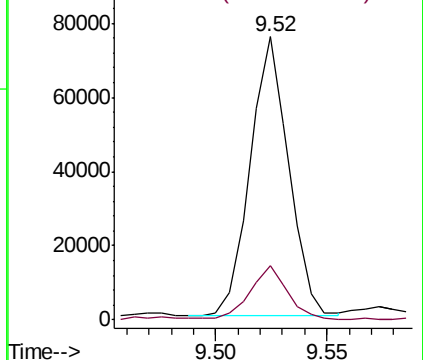
43 100

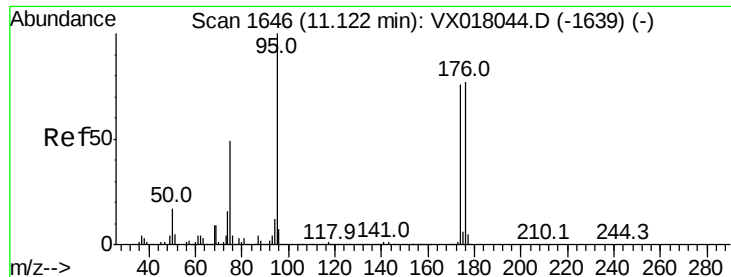
58 18.7 26.6 79.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 41.980 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

Instrument :

MSVOA_X

ClientSampleId :

RO-10

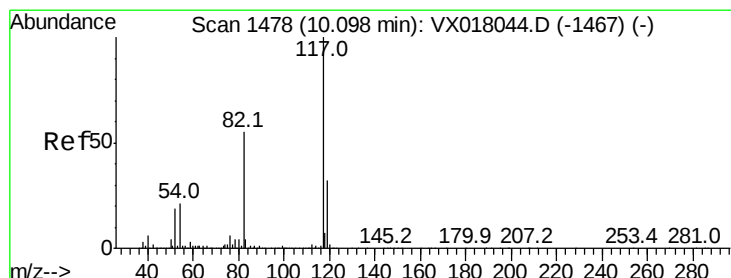
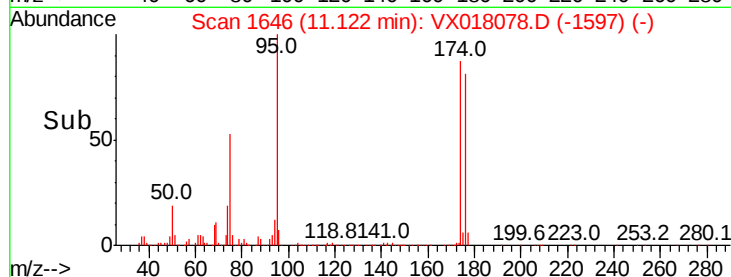
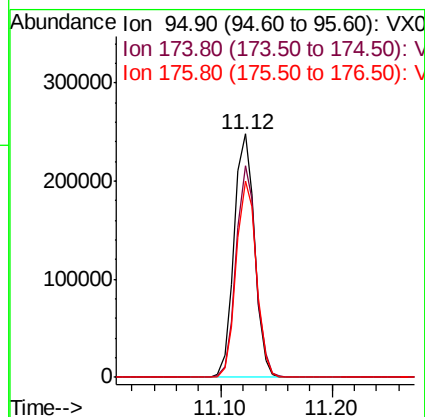
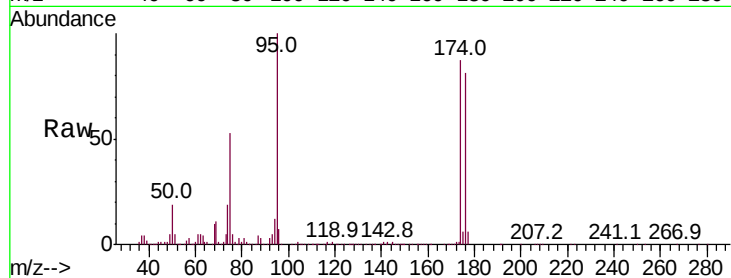
Tot Ion: 95 Resp: 315411

Ion Ratio Lower Upper

95 100

174 84.3 0.0 160.2

176 80.0 0.0 155.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

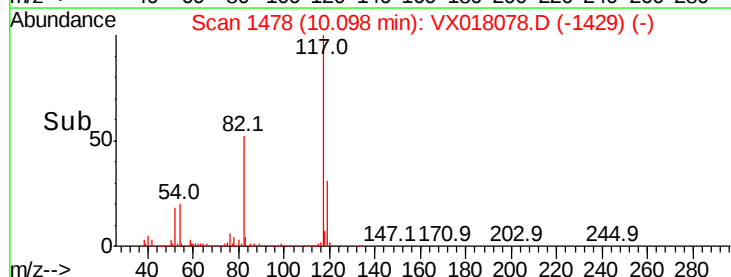
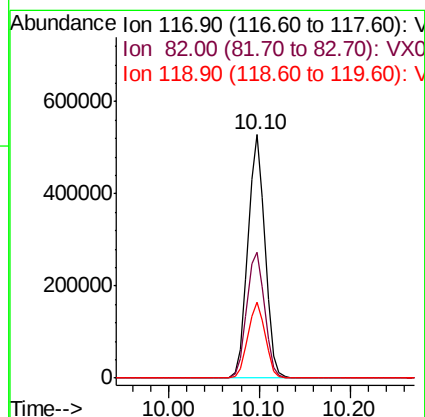
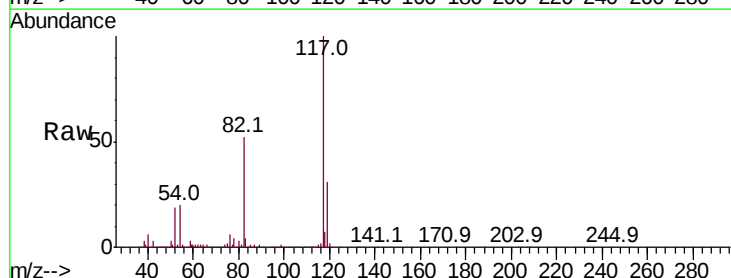
Tgt Ion: 117 Resp: 690348

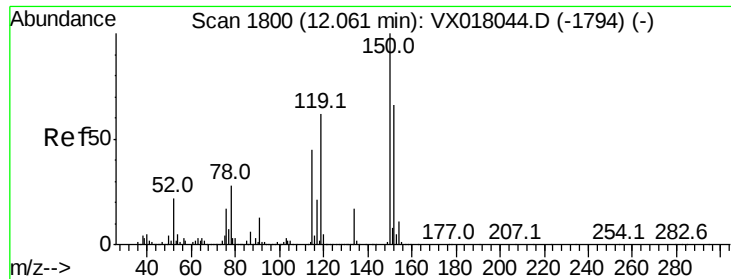
Ion Ratio Lower Upper

117 100

82 51.5 44.2 66.2

119 31.1 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018078.D

Acq: 26 Aug 2020 15:33

Instrument :

MSVOA_X

ClientSampleId :

RO-10

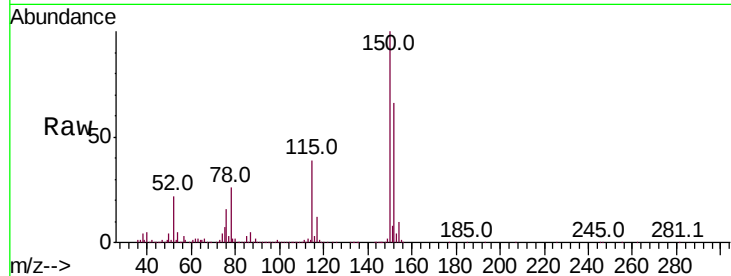
Tot Ion:152 Resp: 345596

Ion Ratio Lower Upper

152 100

115 58.0 41.5 124.5

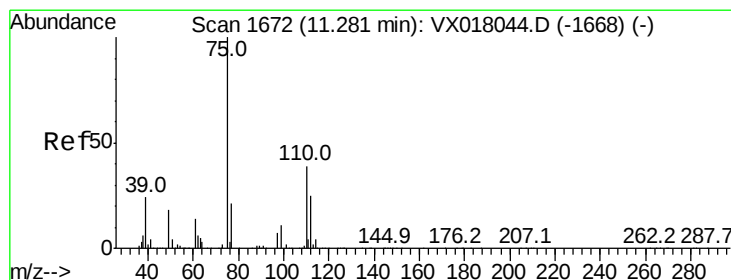
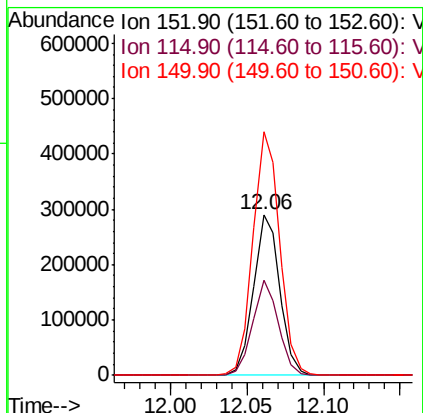
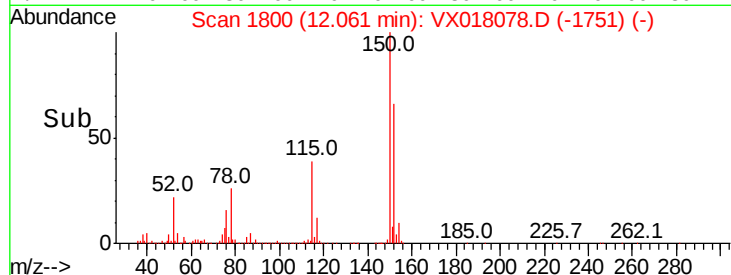
150 154.6 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.422 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018078.D

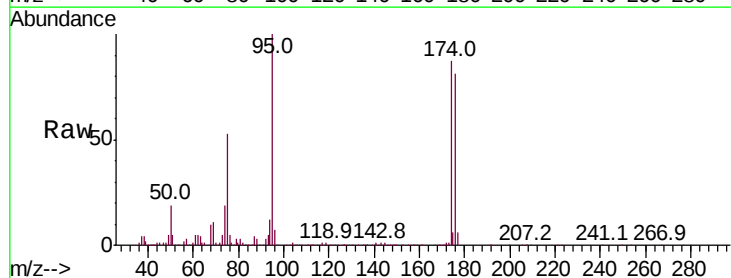
Acq: 26 Aug 2020 15:33

Tgt Ion: 75 Resp: 164693

Ion Ratio Lower Upper

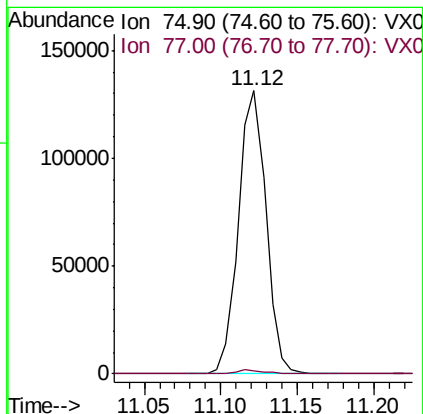
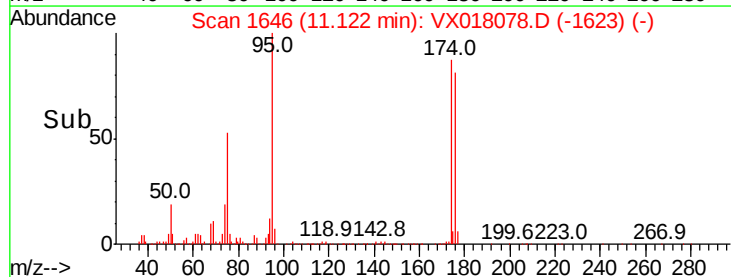
75 100

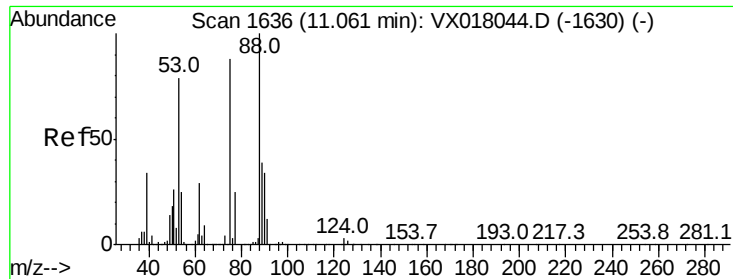
77 1.4 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.858 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX018078.D
 Acq: 26 Aug 2020 15:33

Instrument :
 MSVOA_X
 ClientSampleId :
 RO-10

Tot Ion: 75 Resp: 164693
 Ion Ratio Lower Upper
 75 100
 53 0.6 74.7 112.1#
 89 0.1 36.6 54.8#

