

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082620\
 Data File : VX018077.D
 Acq On : 26 Aug 2020 15:10
 Operator : JC/SP
 Sample : PB131195ZHE#08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131195ZHE#08

Quant Time: Aug 27 04:04:52 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	5.64	168	473441	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	748473	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	665664	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	314061	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	325741	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
35) Dibromofluoromethane	5.46	113	256320	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
50) Toluene-d8	8.70	98	908840	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
62) 4-Bromofluorobenzene	11.12	95	295517	39.56	ug/l	0.00
Spiked Amount			Recovery	=	79.12%	

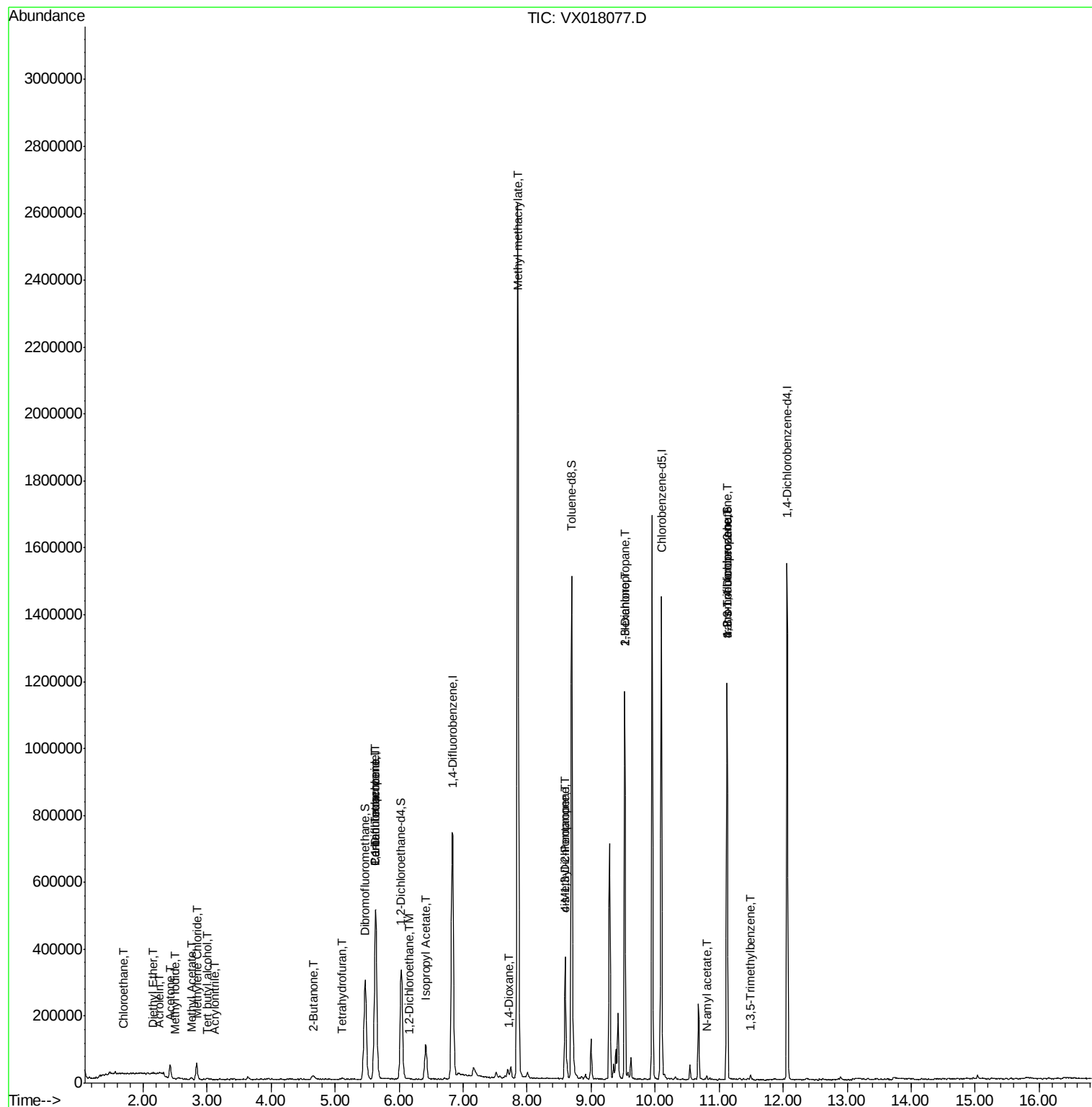
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	846	0.260	ug/l #	59
8) Diethyl Ether	2.16	74	1135	0.406	ug/l	85
10) Methyl Iodide	2.50	142	409	5.363	ug/l #	84
11) Tert butyl alcohol	3.00	59	1923	1.505	ug/l #	78
13) Acrolein	2.26	56	293	0.553	ug/l #	14
15) Acrylonitrile	3.11	53	613	0.211	ug/l #	34
16) Acetone	2.42	43	46925	18.322	ug/l	99
18) Methyl Acetate	2.75	43	7274	1.177	ug/l #	85
20) Methylene Chloride	2.84	84	23126	3.326	ug/l #	94
25) 2-Butanone	4.65	43	8040	1.910	ug/l	99
29) Tetrahydrofuran	5.10	42	2161	0.807	ug/l #	67
36) 1,1-Dichloropropene	5.63	75	35604	5.157	ug/l #	51
38) Carbon Tetrachloride	5.63	117	50190	6.451	ug/l #	17
42) 1,2-Dichloroethane	6.17	62	1563	0.201	ug/l	91
43) Isopropyl Acetate	6.42	43	139419	10.765	ug/l	98
48) Methyl methacrylate	7.85	41	220745	34.240	ug/l #	44
49) 1,4-Dioxane	7.71	88	71	0.608	ug/l #	23
51) 4-Methyl-2-Pentanone	8.59	43	135284	16.911	ug/l #	46
54) cis-1,3-Dichloropropene	8.60	75	56869	6.310	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	9911	1.095	ug/l #	51
59) 2-Hexanone	9.52	43	128664	21.152	ug/l #	53
74) N-amyl acetate	10.80	43	5061	0.515	ug/l #	56
76) 1,2,3-Trichloropropane	11.12	75	156194	22.357	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	5363	0.315	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.12	75	156194	60.382	ug/l #	12

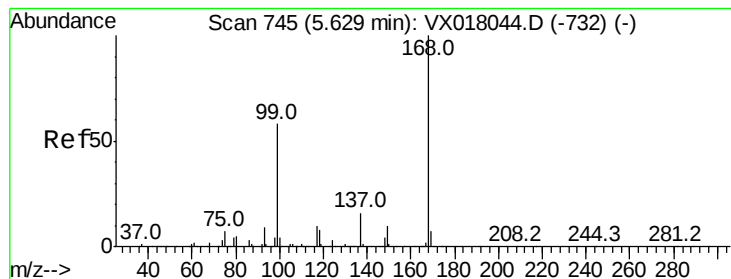
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX082620\
Data File : VX018077.D
Acq On : 26 Aug 2020 15:10
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Sample : PB131195ZHE#08
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
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Quant Time: Aug 27 04:04:52 2020
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: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Instrument :

MSVOA_X

ClientSampleId :

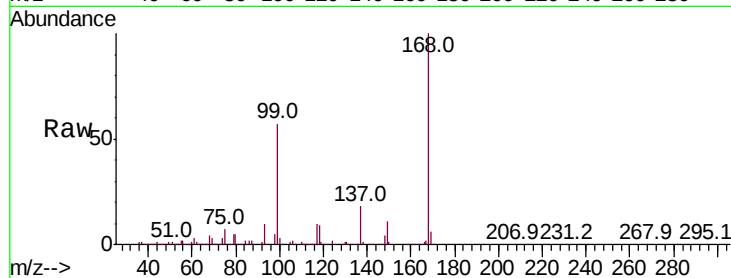
PB131195ZHE#08

Tot Ion:168 Resp: 473441

Ion Ratio Lower Upper

168 100

99 56.5 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

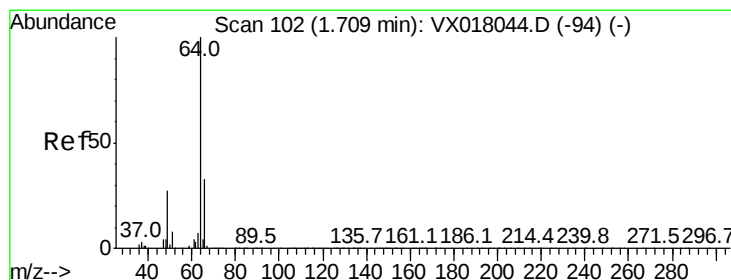
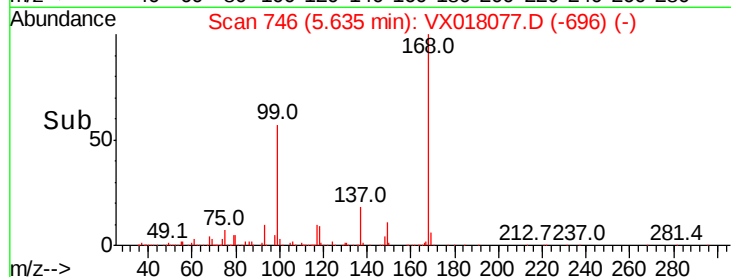
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.260 ug/l

RT: 1.70 min Scan# 100

Delta R.T. -0.01 min

Lab File: VX018077.D

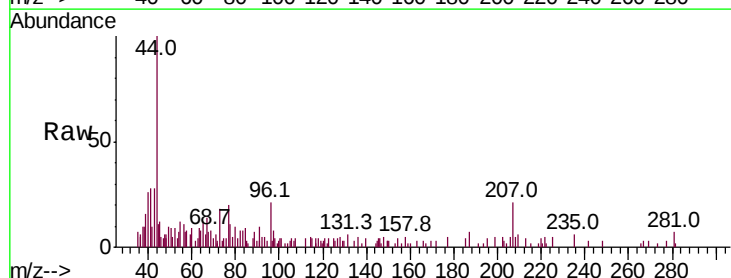
Acq: 26 Aug 2020 15:10

Tgt Ion: 64 Resp: 846

Ion Ratio Lower Upper

64 100

66 10.1 26.6 39.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

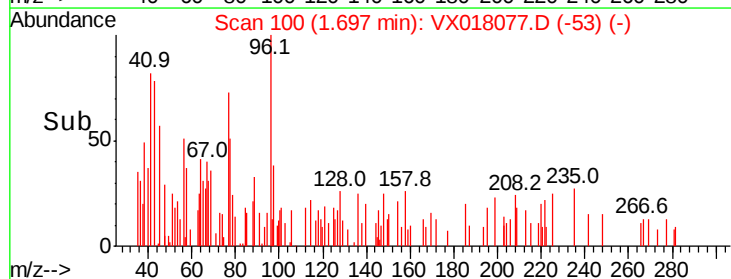
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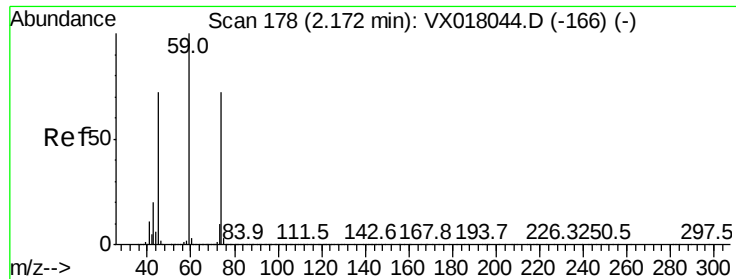
400

200

0

Time-->





#8

Diethyl Ether

Concen: 0.406 ug/l

RT: 2.16 min Scan# 176

Delta R.T. -0.01 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Instrument :

MSVOA_X

ClientSampleId :

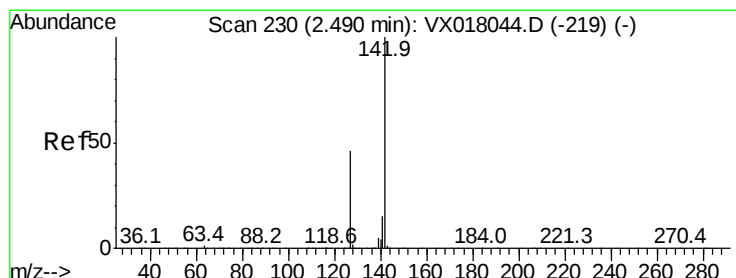
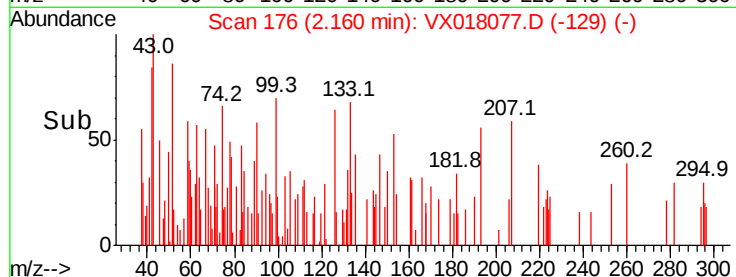
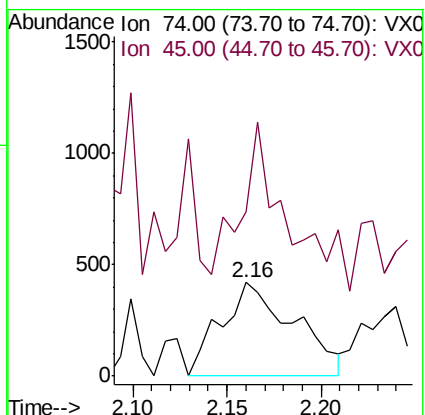
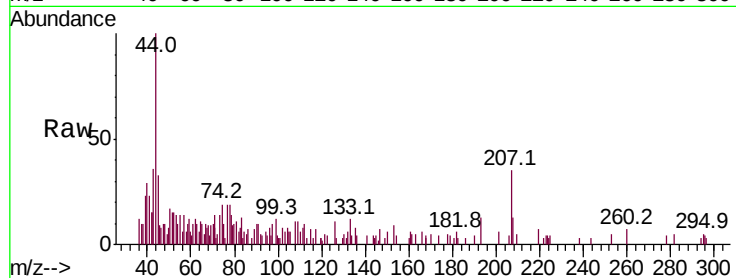
PB131195ZHE#08

Tot Ion: 74 Resp: 1135

Ion Ratio Lower Upper

74 100

45 116.2 50.7 152.3



#10

Methyl Iodide

Concen: 5.363 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

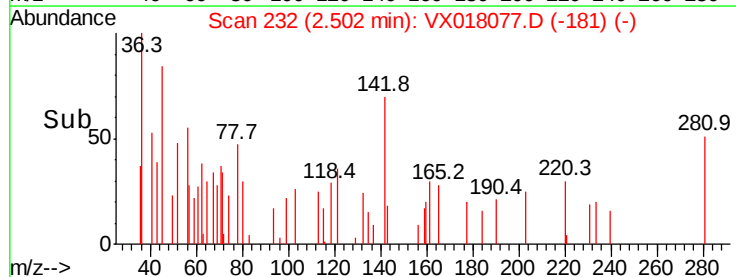
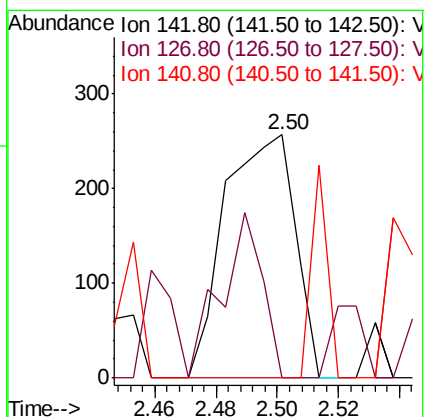
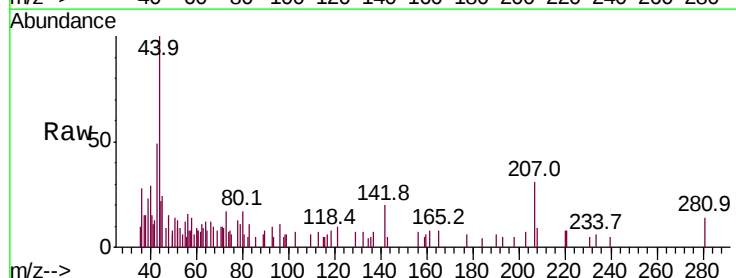
Tgt Ion: 142 Resp: 409

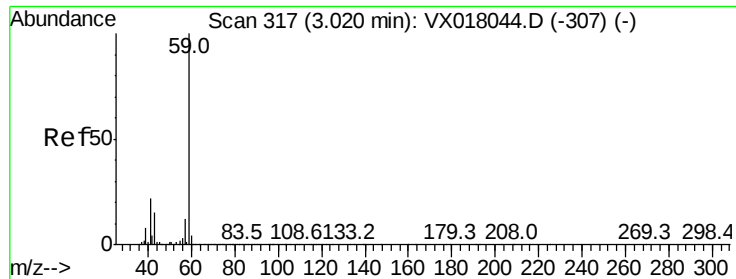
Ion Ratio Lower Upper

142 100

127 39.6 37.0 55.6

141 0.0 11.5 17.3#



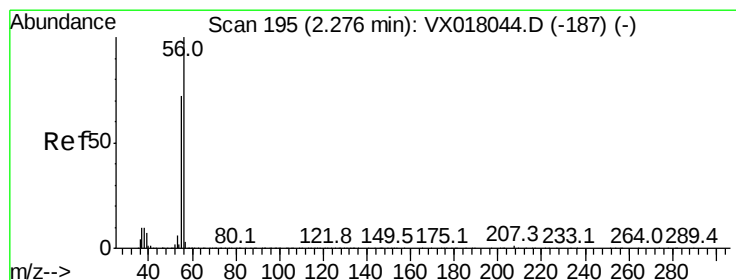
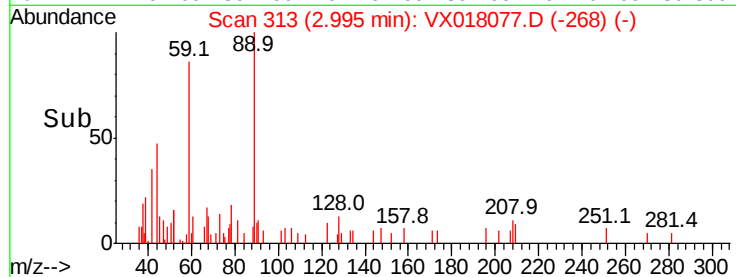
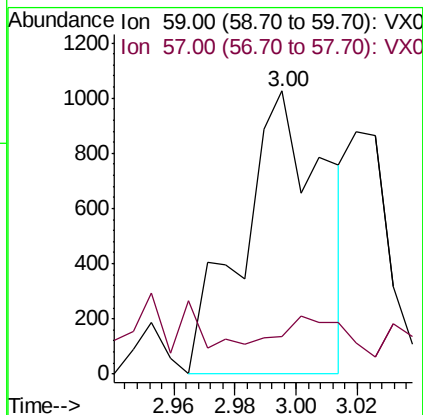
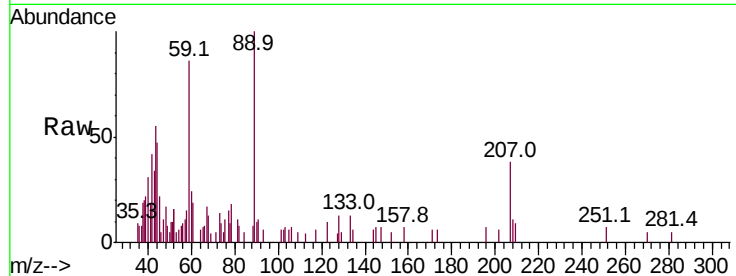


#11

Tert butyl alcohol
 Concen: 1.505 ug/l
 RT: 3.00 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX018077.D
 Acq: 26 Aug 2020 15:10

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131195ZHE#08

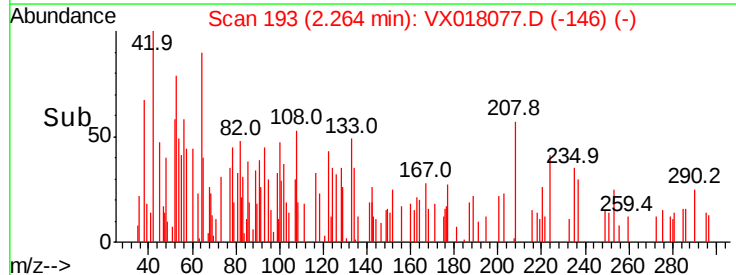
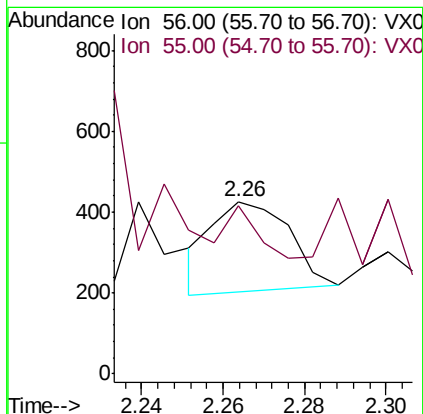
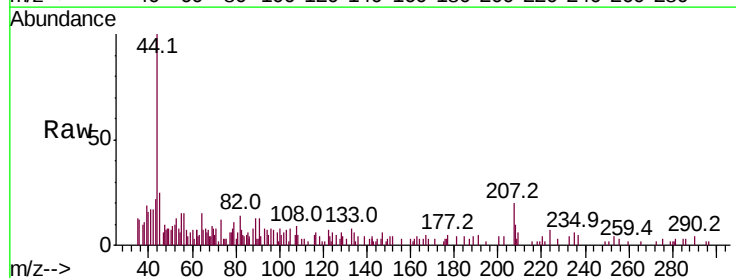
Tot Ion: 59 Resp: 1923
 Ion Ratio Lower Upper
 59 100
 57 19.5 8.9 13.3#

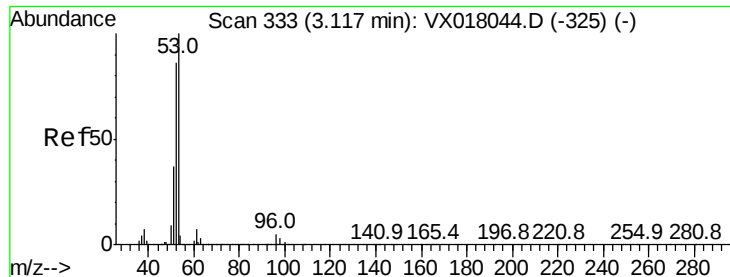


#13

Acrolein
 Concen: 0.553 ug/l
 RT: 2.26 min Scan# 193
 Delta R.T. -0.01 min
 Lab File: VX018077.D
 Acq: 26 Aug 2020 15:10

Tgt Ion: 56 Resp: 293
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.6#





#15

Acrylonitrile

Concen: 0.211 ug/l

RT: 3.11 min Scan# 331

Delta R.T. -0.01 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#08

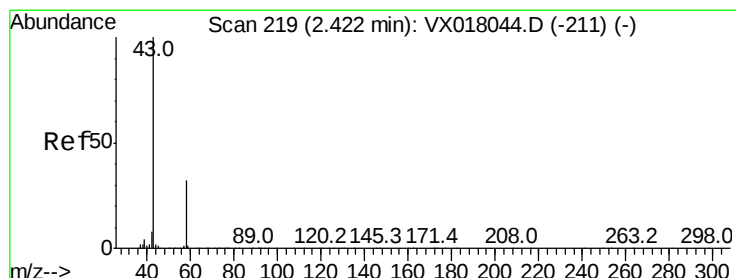
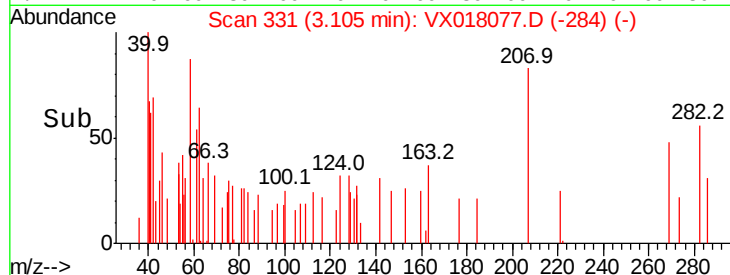
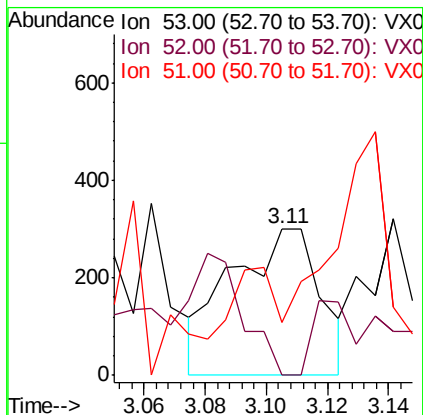
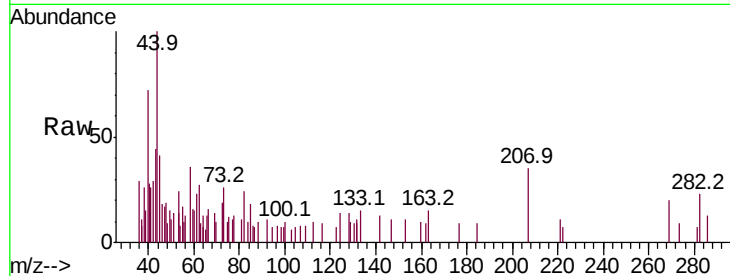
Tot Ion: 53 Resp: 613

Ion Ratio Lower Upper

53 100

52 22.0 66.9 100.3#

51 0.0 28.7 43.1#



#16

Acetone

Concen: 18.322 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018077.D

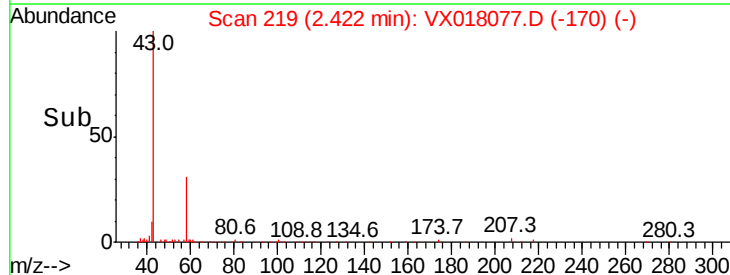
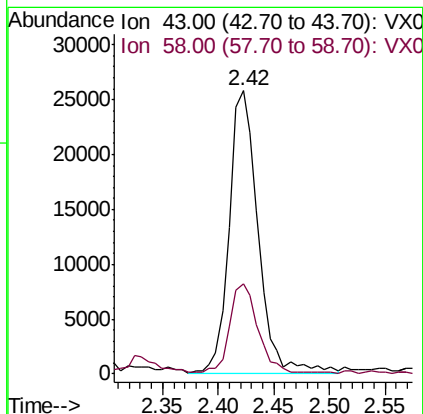
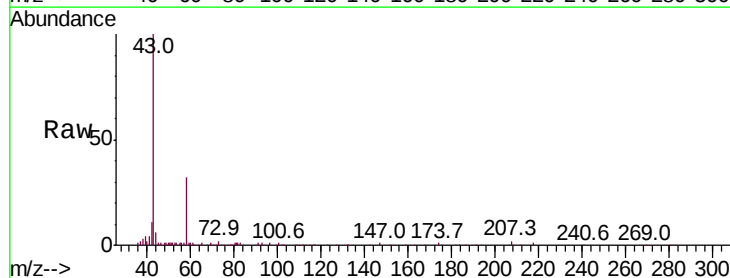
Acq: 26 Aug 2020 15:10

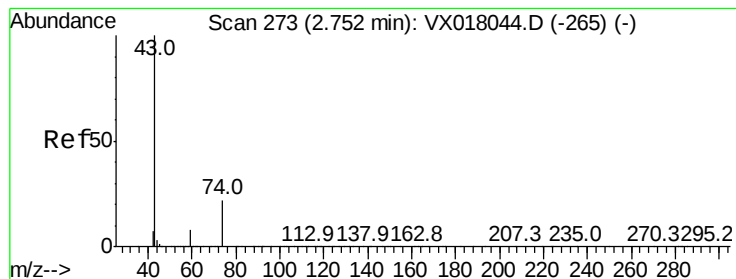
Tgt Ion: 43 Resp: 46925

Ion Ratio Lower Upper

43 100

58 31.5 25.5 38.3





#18

Methvl Acetate

Concen: 1.177 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Instrument :

MSVOA_X

ClientSampleId :

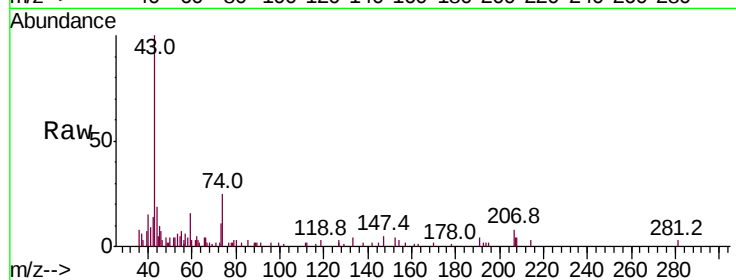
PB131195ZHE#08

Tot Ion: 43 Resp: 7274

Ion Ratio Lower Upper

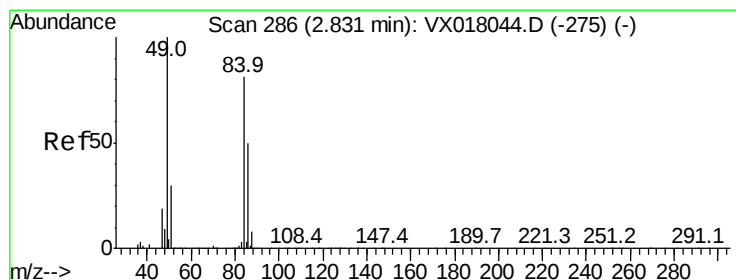
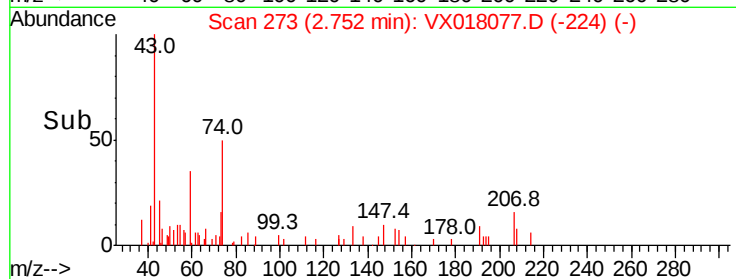
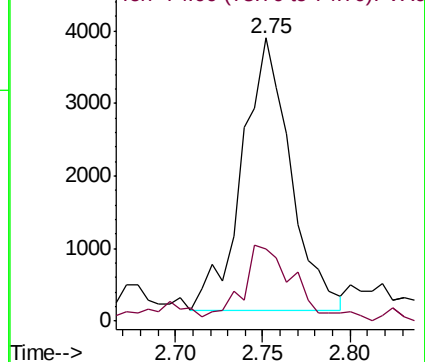
43 100

74 29.9 18.2 27.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 3.326 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Tgt Ion: 84 Resp: 23126

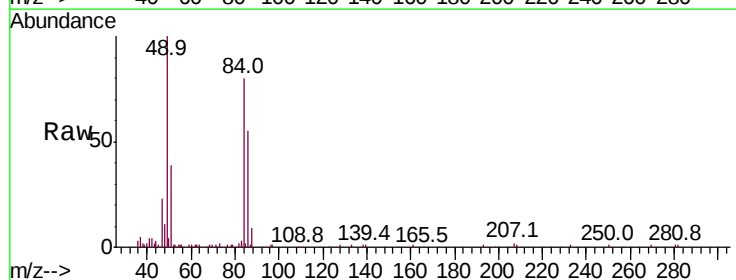
Ion Ratio Lower Upper

84 100

49 123.9 98.6 148.0

51 48.1 29.6 44.4#

86 69.3 49.8 74.6

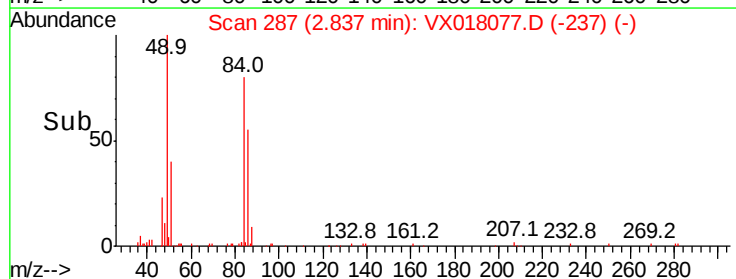
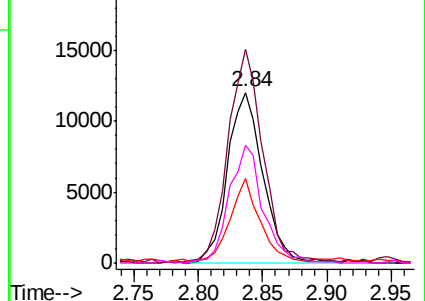


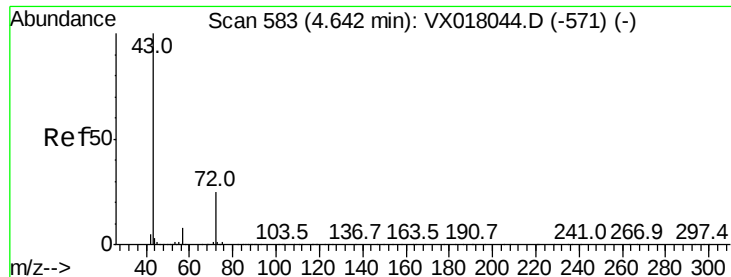
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

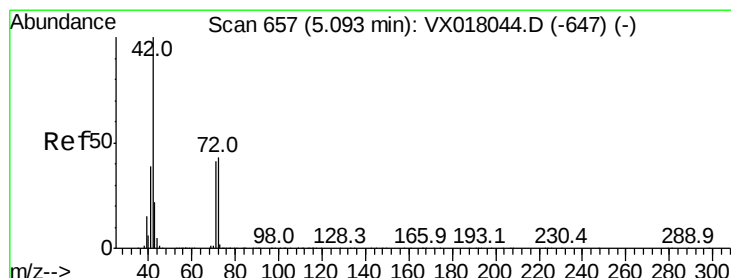
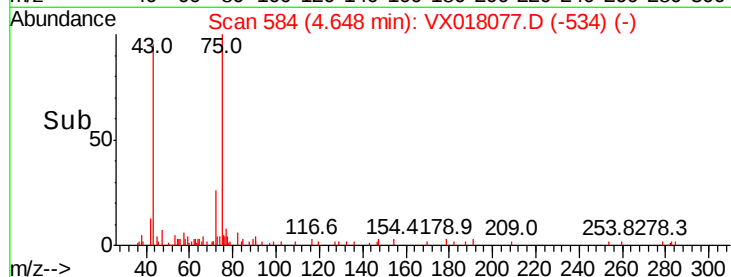
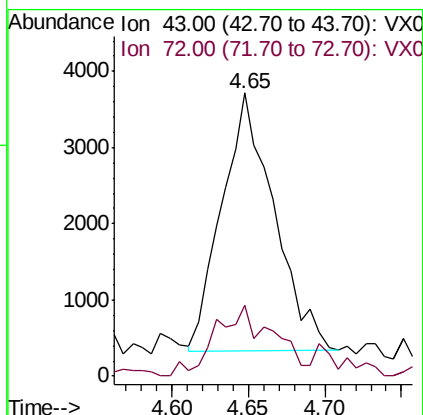
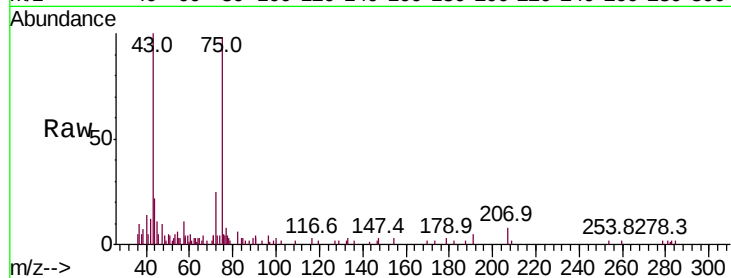




#25
2-Butanone
Concen: 1.910 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX018077.D
Acq: 26 Aug 2020 15:10

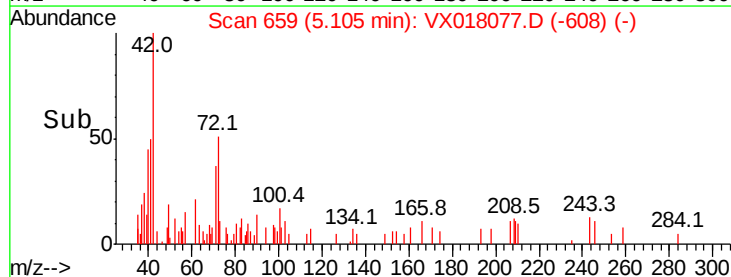
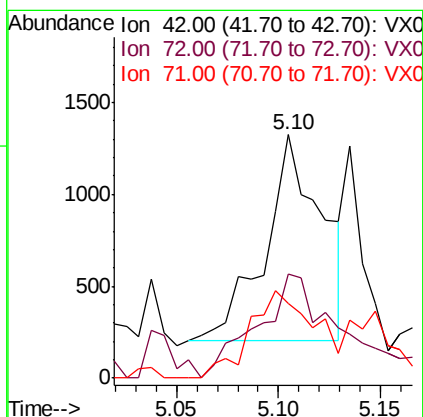
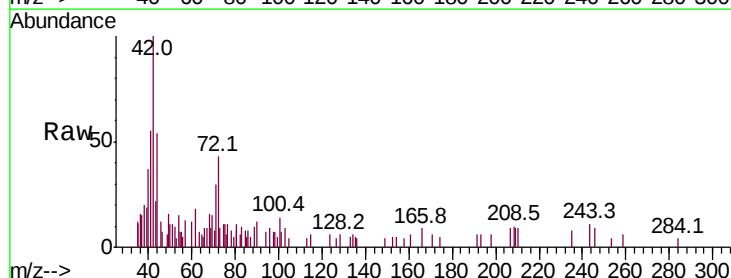
Instrument :
MSVOA_X
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PB131195ZHE#08

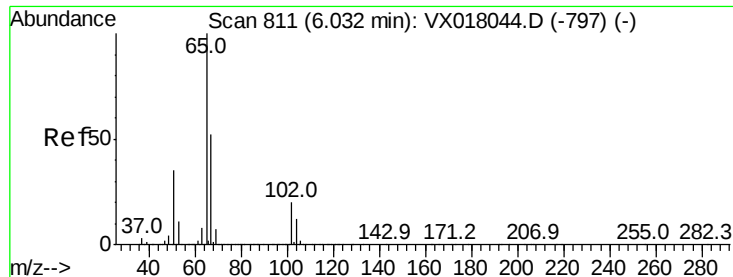
Tot Ion: 43 Resp: 8040
Ion Ratio Lower Upper
43 100
72 25.4 19.8 29.6



#29
Tetrahydrofuran
Concen: 0.807 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX018077.D
Acq: 26 Aug 2020 15:10

Tgt Ion: 42 Resp: 2161
Ion Ratio Lower Upper
42 100
72 74.4 34.2 51.4#
71 49.1 32.1 48.1#





#33

1,2-Dichloroethane-d4

Concen: 49.561 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Instrument :

MSVOA_X

ClientSampleId :

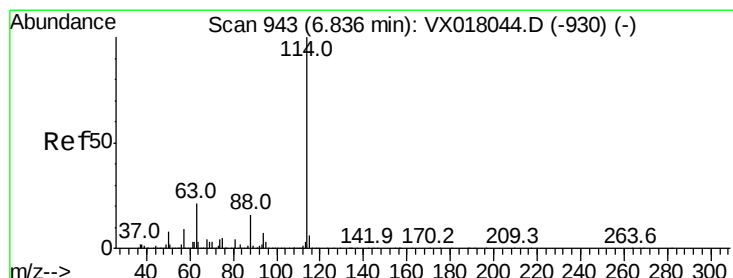
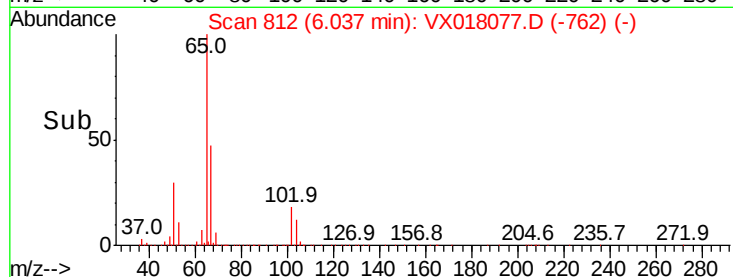
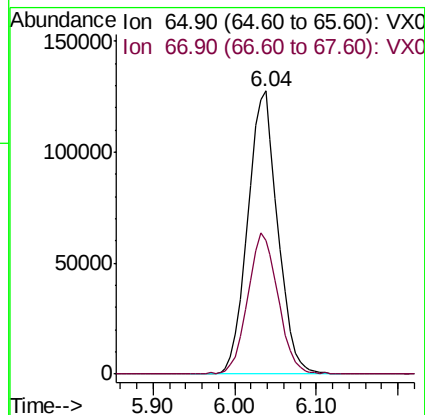
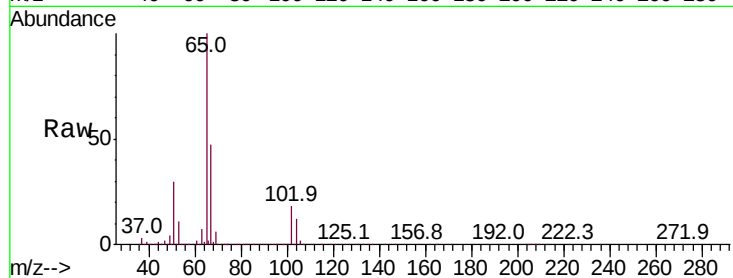
PB131195ZHE#08

Tot Ion: 65 Resp: 325741

Ion Ratio Lower Upper

65 100

67 50.6 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: VX018077.D

Acq: 26 Aug 2020 15:10

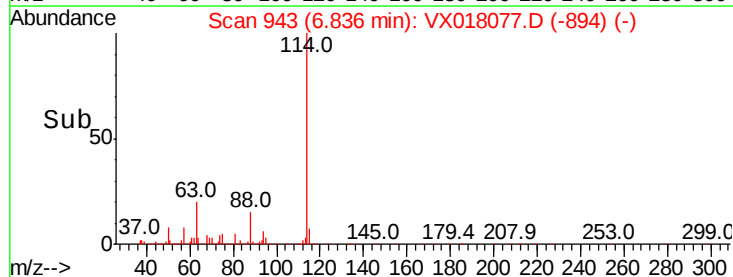
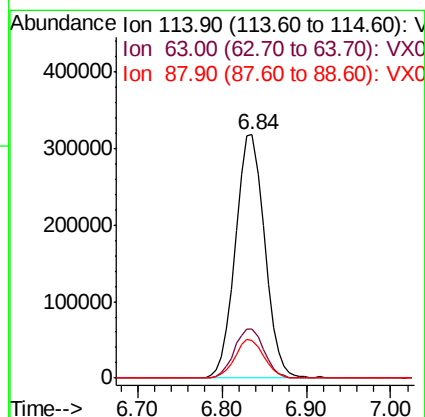
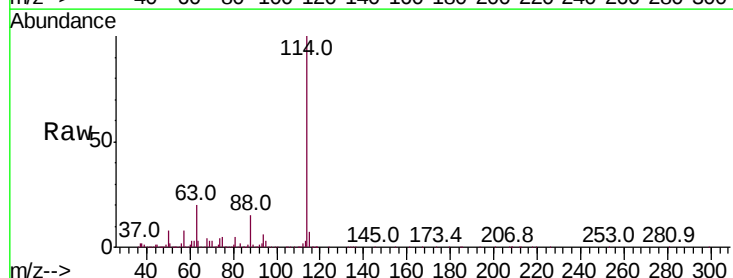
Tgt Ion: 114 Resp: 748473

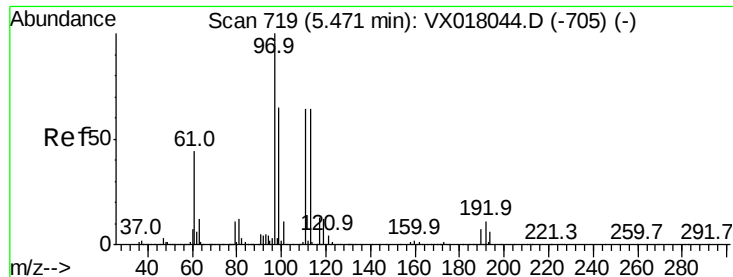
Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.6

88 15.4 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.284 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#08

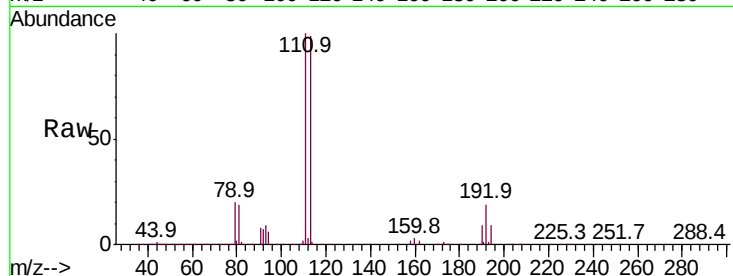
Tot Ion:113 Resp: 256320

Ion Ratio Lower Upper

113 100

111 102.3 81.6 122.4

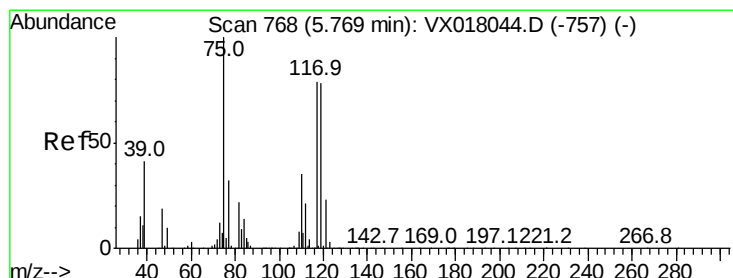
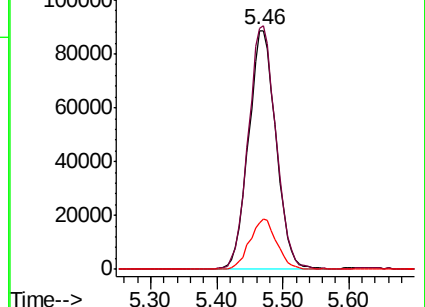
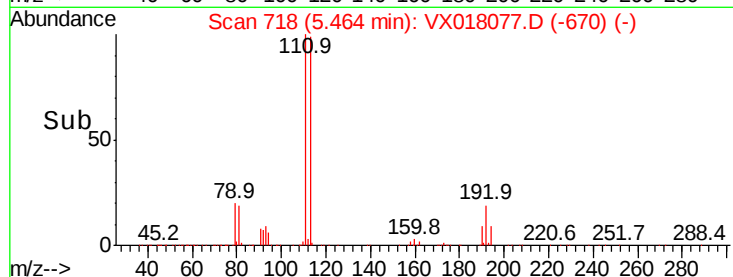
192 20.8 15.8 23.8



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: 5.157 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

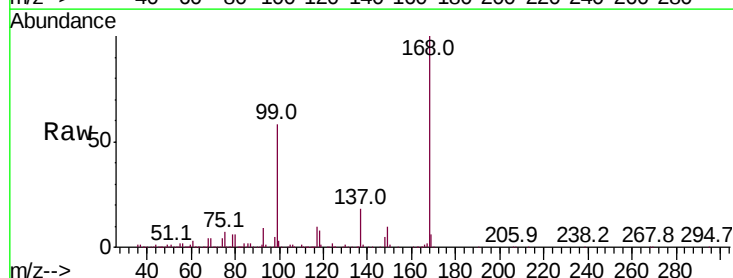
Tgt Ion: 75 Resp: 35604

Ion Ratio Lower Upper

75 100

110 10.6 18.0 54.0#

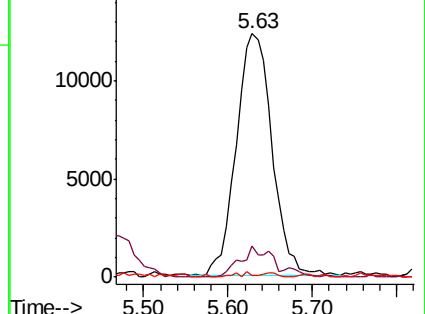
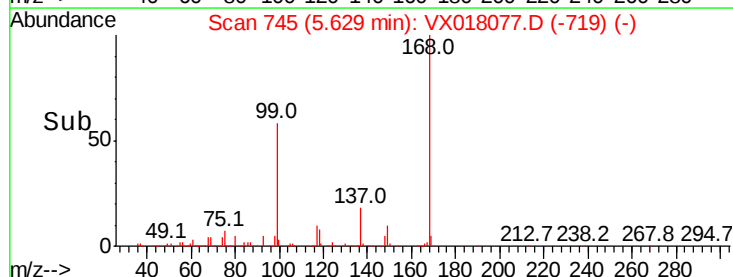
77 0.5 24.4 36.6#

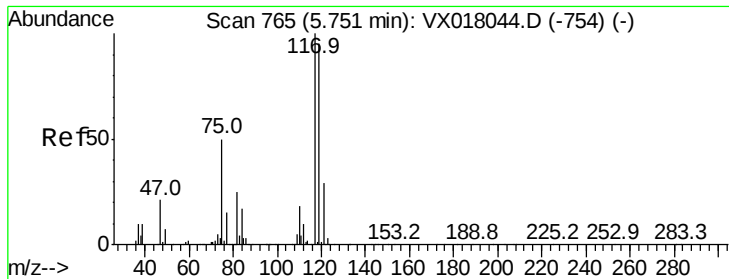


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.451 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#08

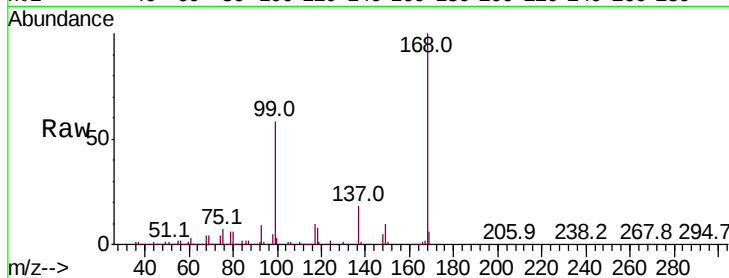
Tot Ion:117 Resp: 50190

Ion Ratio Lower Upper

117 100

119 6.3 75.8 113.6#

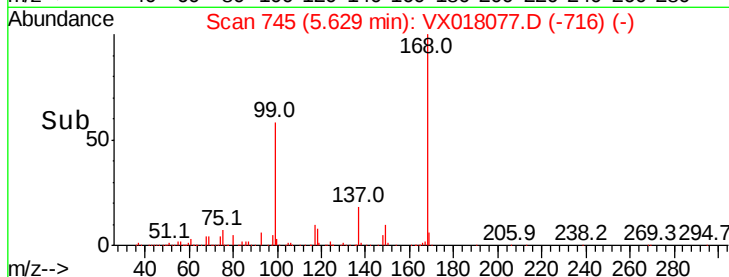
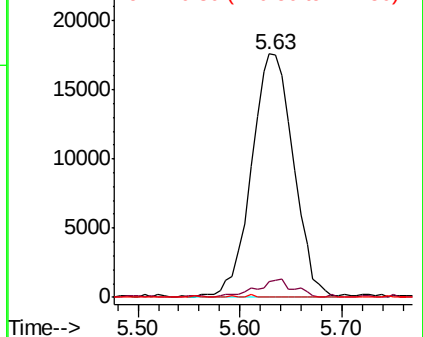
121 0.0 23.4 35.0#



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



#42

1,2-Dichloroethane

Concen: 0.201 ug/l

RT: 6.17 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX018077.D

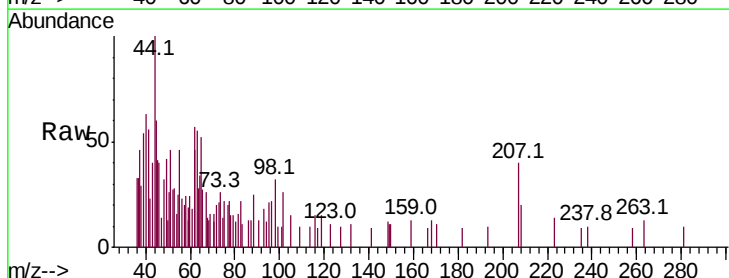
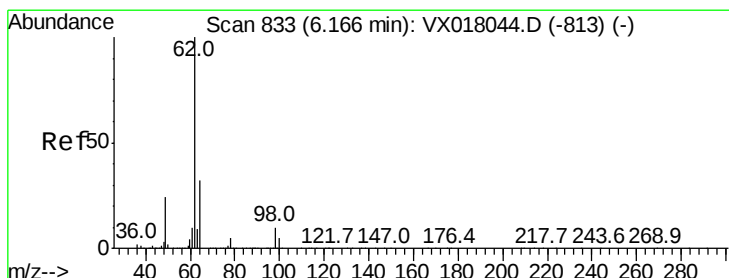
Acq: 26 Aug 2020 15:10

Tgt Ion: 62 Resp: 1563

Ion Ratio Lower Upper

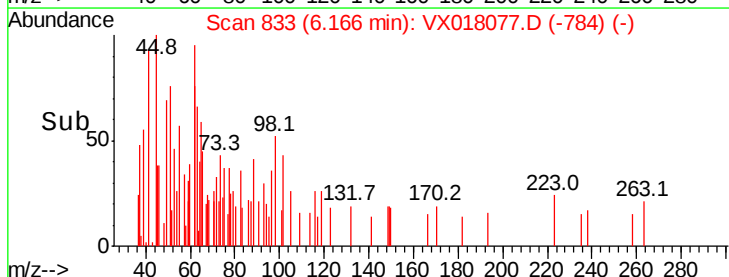
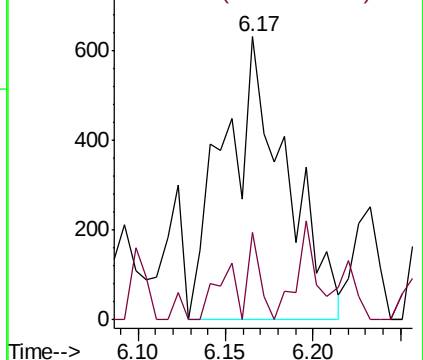
62 100

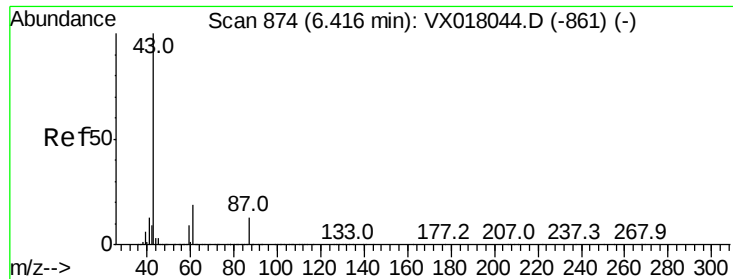
98 5.8 0.0 18.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



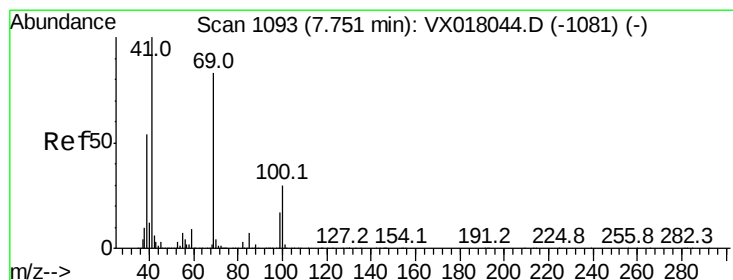
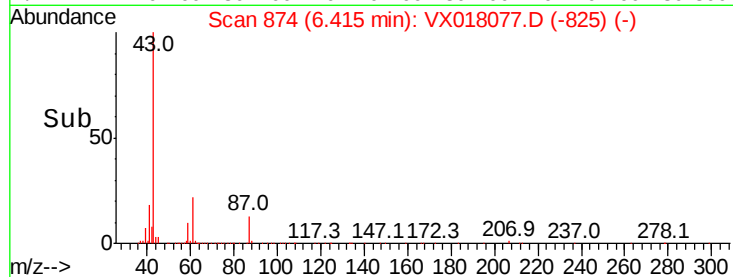
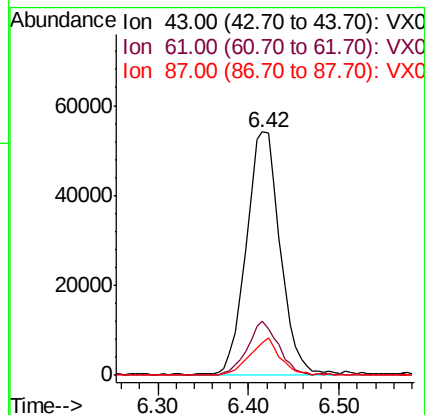
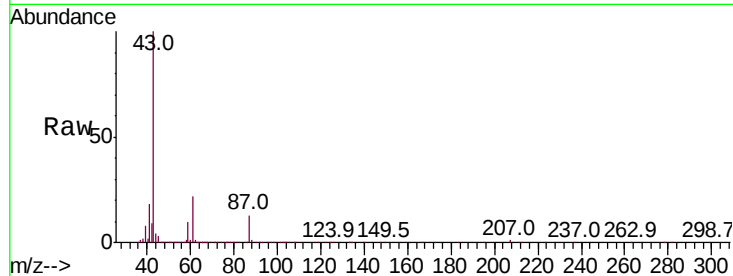


#43

Isopropyl Acetate
 Concen: 10.765 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. -0.00 min
 Lab File: VX018077.D
 Acq: 26 Aug 2020 15:10

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131195ZHE#08

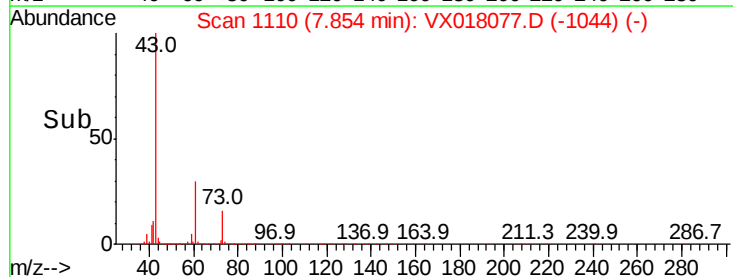
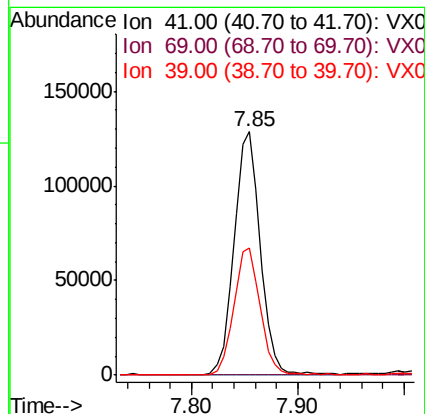
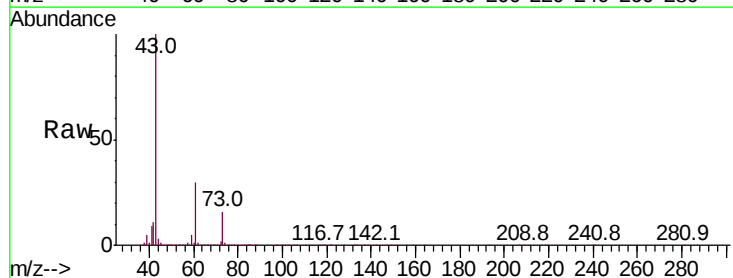
Tot Ion	Ratio	Lower	Upper
43	100		
61	20.1	15.7	23.5
87	13.8	10.3	15.5

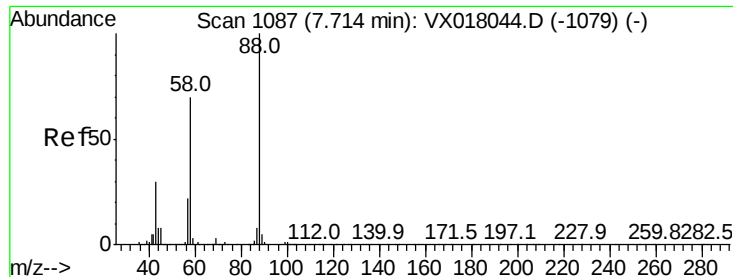


#48

Methyl methacrylate
 Concen: 34.240 ug/l
 RT: 7.85 min Scan# 1110
 Delta R.T. 0.10 min
 Lab File: VX018077.D
 Acq: 26 Aug 2020 15:10

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.4	65.5	98.3#
39	52.7	44.5	66.7

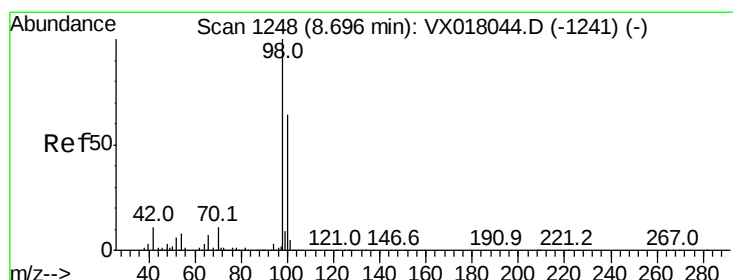
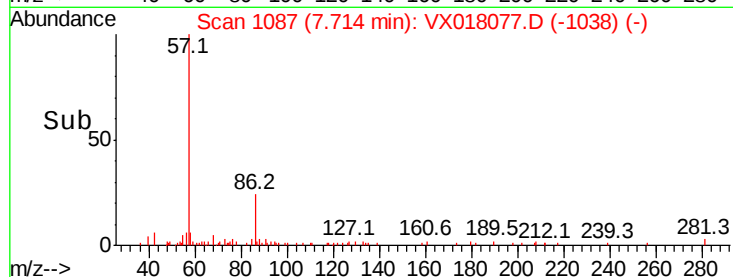
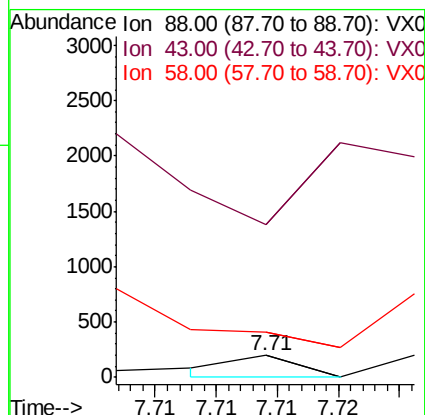
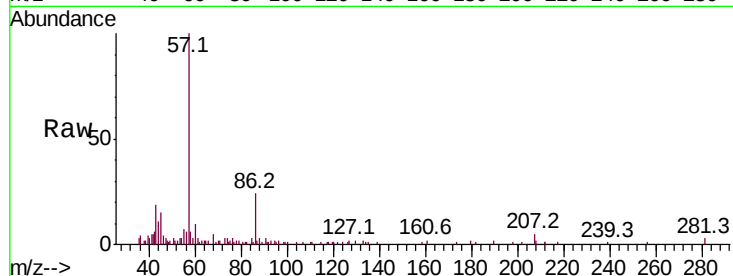




#49
1,4-Dioxane
Concen: 0.608 ug/l
RT: 7.71 min Scan# 1087
Delta R.T. -0.00 min
Lab File: VX018077.D
Acq: 26 Aug 2020 15:10

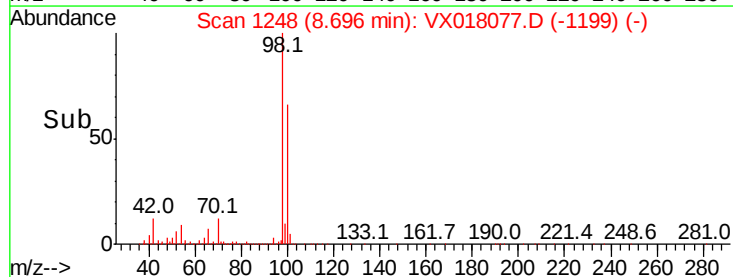
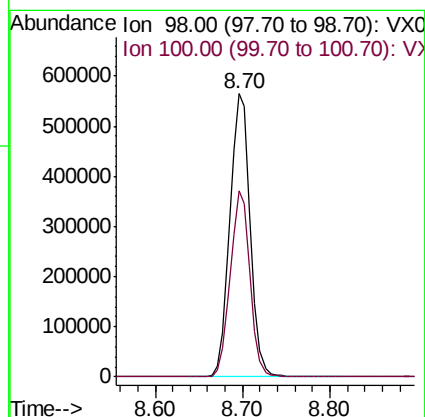
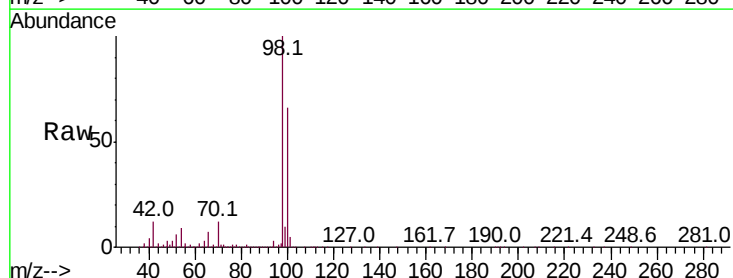
Instrument :
MSVOA_X
ClientSampleId :
PB131195ZHE#08

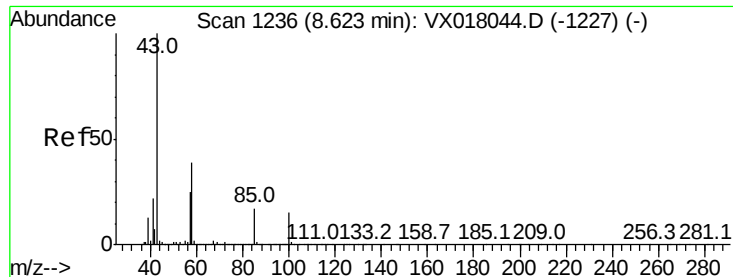
Tot Ion: 88 Resp: 71
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 0.0 56.4 84.6#



#50
Toluene-d8
Concen: 47.869 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX018077.D
Acq: 26 Aug 2020 15:10

Tgt Ion: 98 Resp: 908840
Ion Ratio Lower Upper
98 100
100 64.2 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 16.911 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

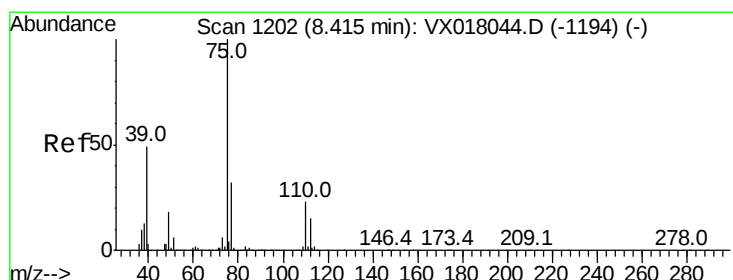
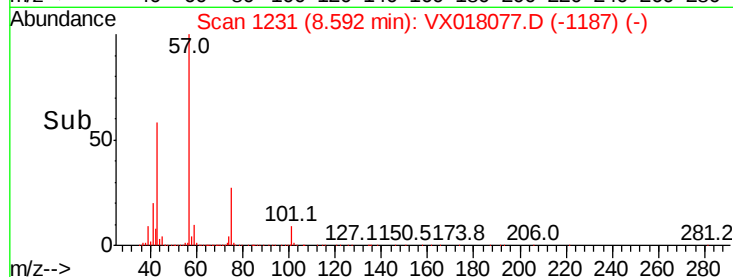
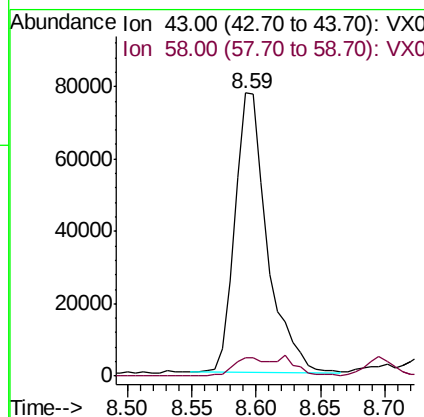
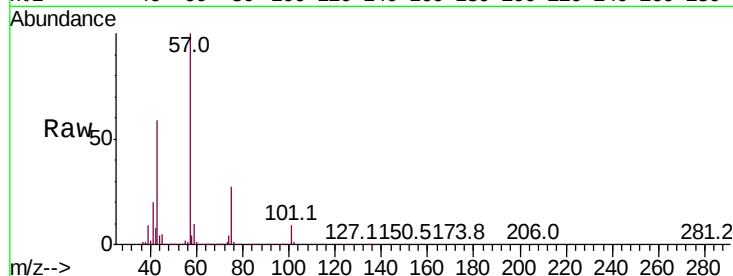
Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Instrument :
MSVOA_X
ClientSampleId :
PB131195ZHE#08

Tot Ion: 43 Resp: 135284

Ion	Ratio	Lower	Upper
43	100		
58	5.7	30.7	46.1#



#54

cis-1,3-Dichloropropene

Concen: 6.310 ug/l

RT: 8.60 min Scan# 1232

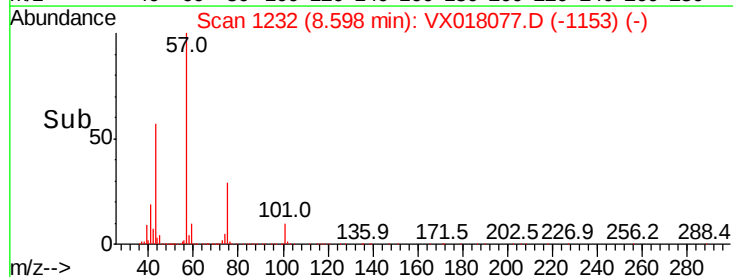
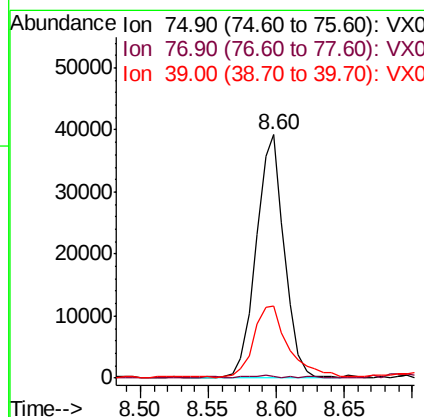
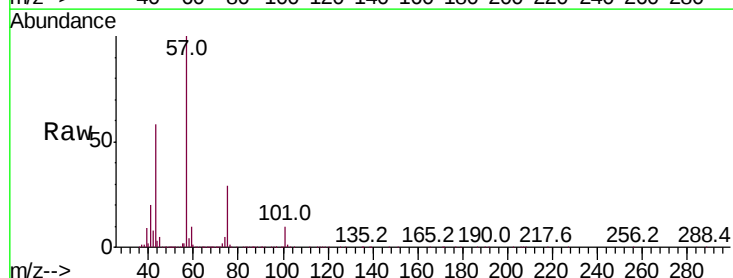
Delta R.T. 0.18 min

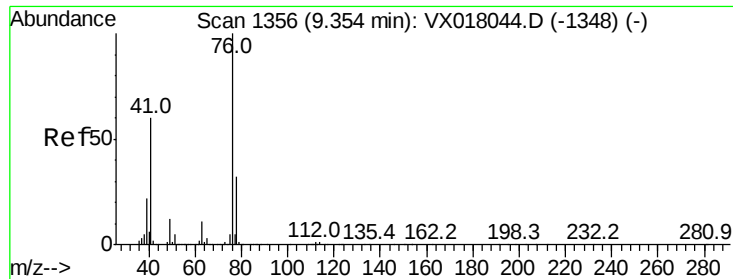
Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Tgt Ion: 75 Resp: 56869

Ion	Ratio	Lower	Upper
75	100		
77	0.7	25.8	38.8#
39	28.9	38.8	58.2#





#57

1,3-Dichloropropane

Concen: 1.095 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Instrument :

MSVOA_X

ClientSampleId :

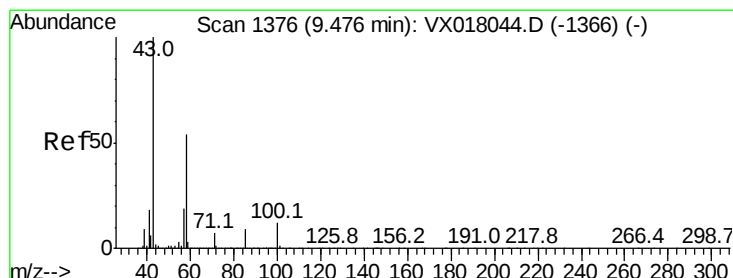
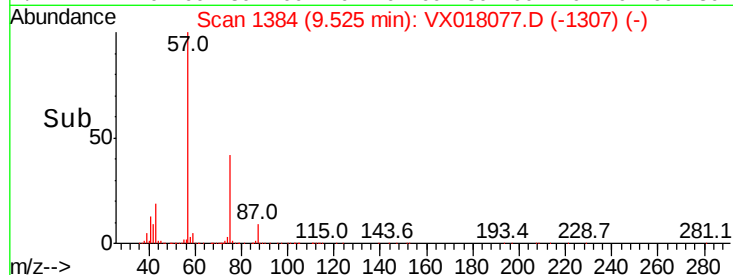
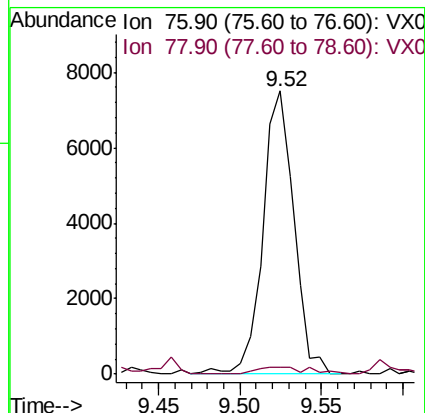
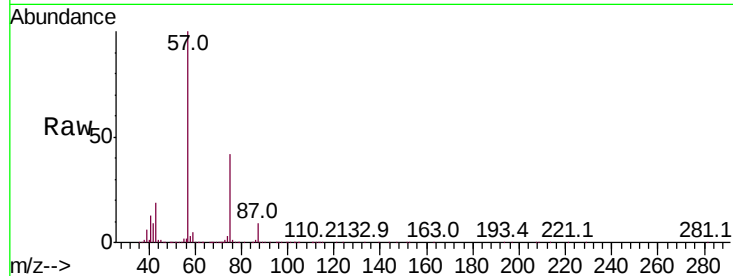
PB131195ZHE#08

Tot Ion: 76 Resp: 9911

Ion Ratio Lower Upper

76 100

78 4.6 25.8 38.6#



#59

2-Hexanone

Concen: 21.152 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX018077.D

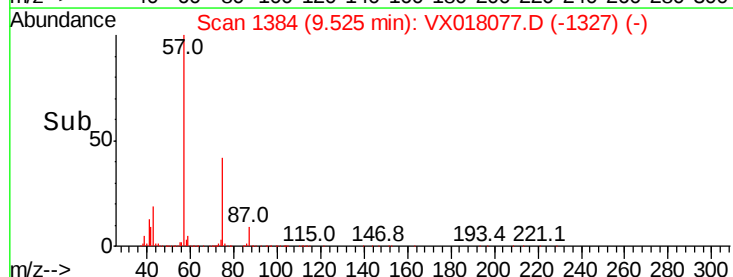
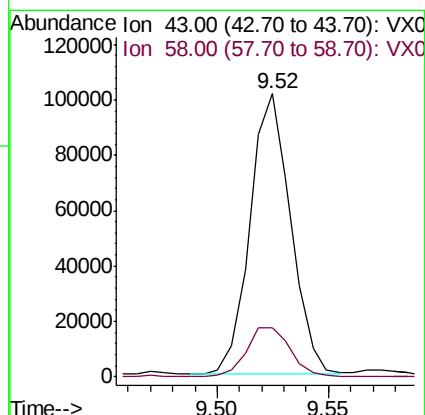
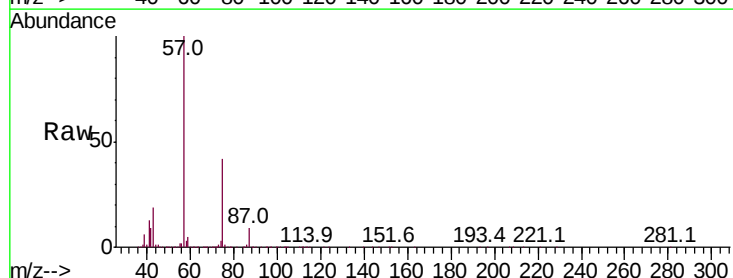
Acq: 26 Aug 2020 15:10

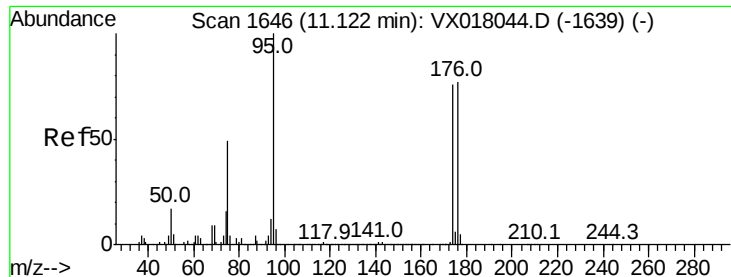
Tgt Ion: 43 Resp: 128664

Ion Ratio Lower Upper

43 100

58 19.5 26.6 79.7#





#62

4-Bromofluorobenzene

Concen: 39.562 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#08

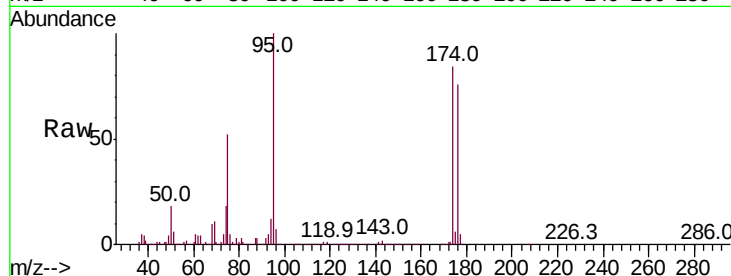
Tot Ion: 95 Resp: 295517

Ion Ratio Lower Upper

95 100

174 85.6 0.0 160.2

176 79.1 0.0 155.8



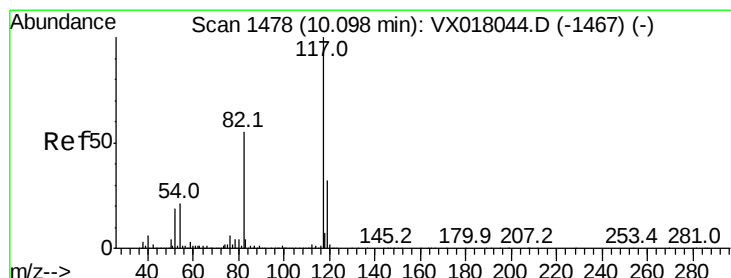
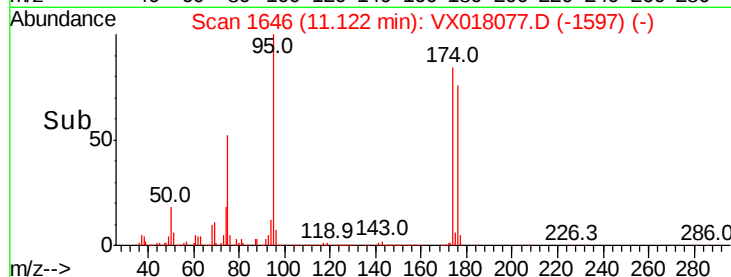
Abundance Ion 94.90 (94.60 to 95.60): VX018044.D (-1639) (-)

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

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

Time-->

11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

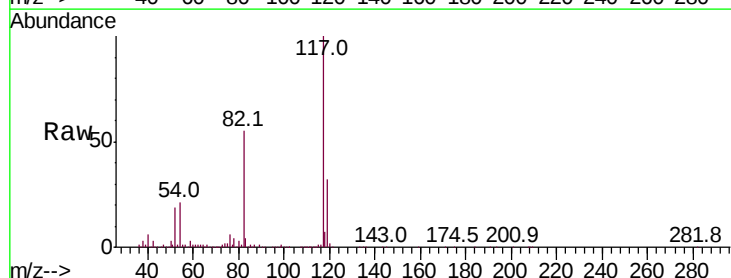
Tgt Ion: 117 Resp: 665664

Ion Ratio Lower Upper

117 100

82 54.7 44.2 66.2

119 31.7 25.7 38.5



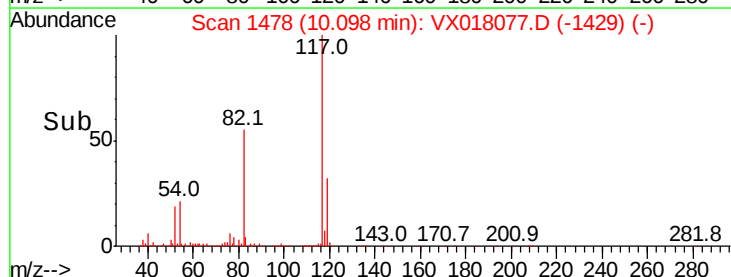
Abundance Ion 116.90 (116.60 to 117.60): VX018044.D (-1467) (-)

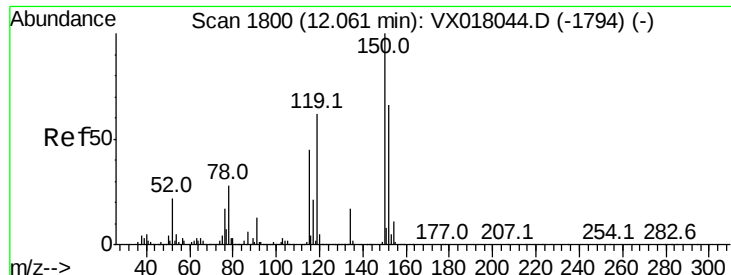
Ion 82.00 (81.70 to 82.70): VX018044.D (-1467) (-)

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

Time-->

10.00 10.10 10.20





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#08

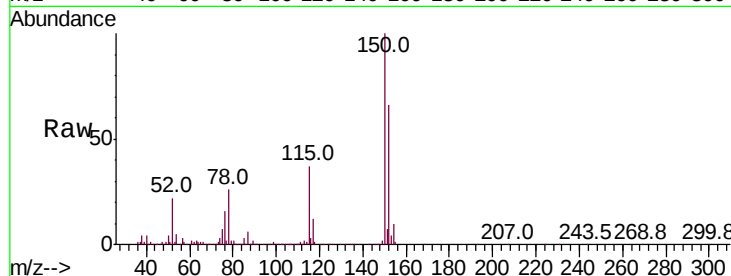
Tot Ion:152 Resp: 314061

Ion Ratio Lower Upper

152 100

115 56.9 41.5 124.5

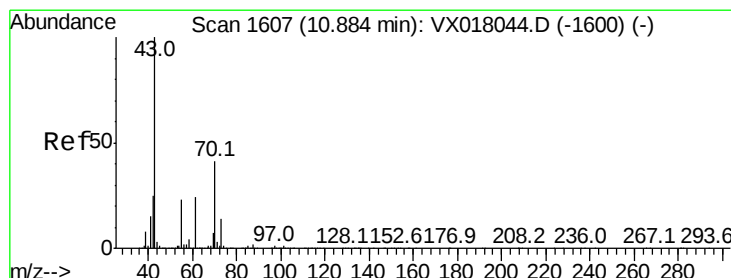
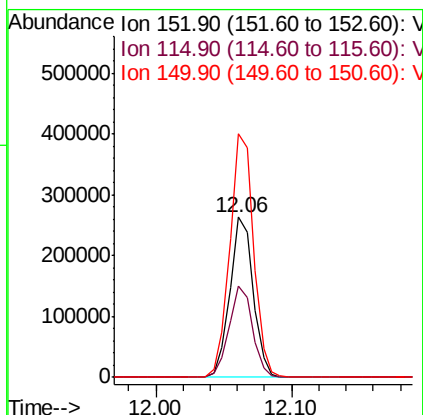
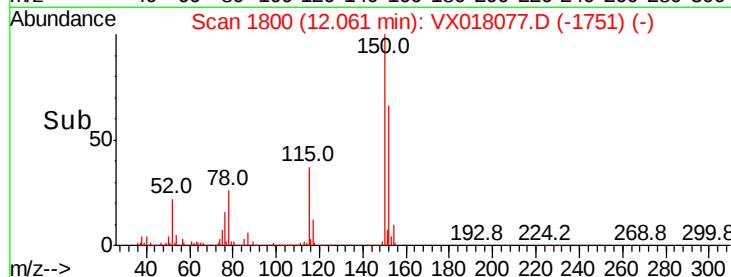
150 155.2 0.0 343.8



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



#74

N-ethyl acetate

Concen: 0.515 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.08 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Tgt Ion: 43 Resp: 5061

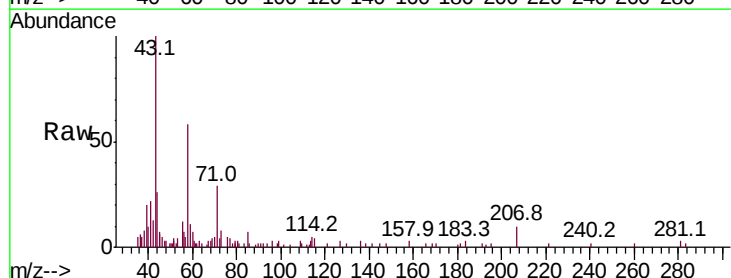
Ion Ratio Lower Upper

43 100

70 2.7 32.3 48.5#

55 18.4 18.2 27.2

61 0.0 18.9 28.3#

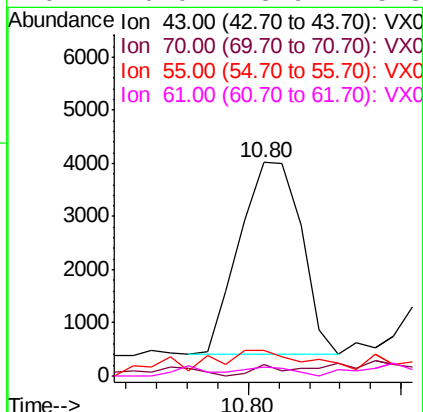
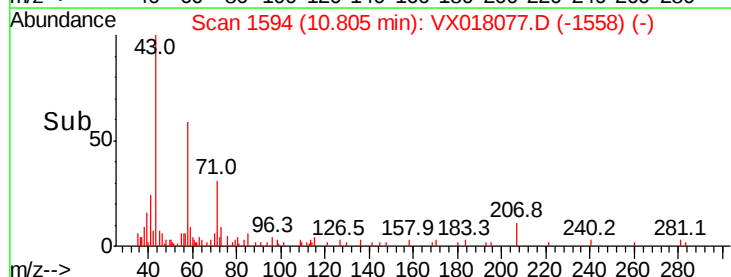


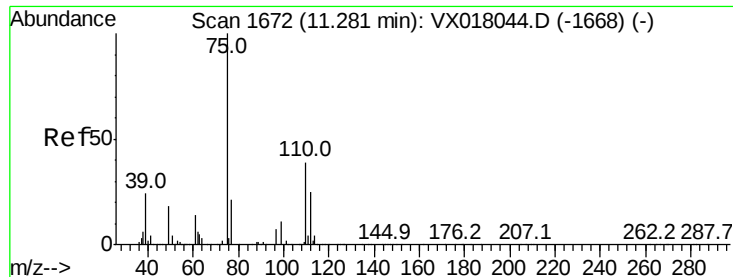
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.357 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018077.D

Acq: 26 Aug 2020 15:10

Instrument :

MSVOA_X

ClientSampleId :

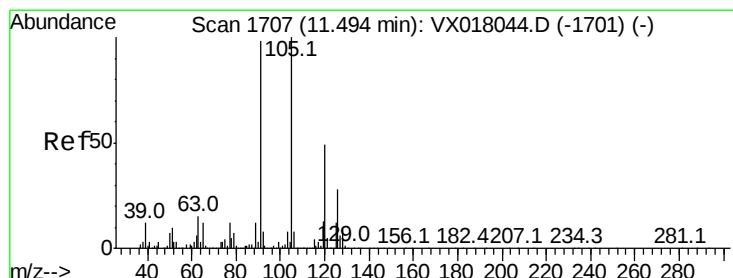
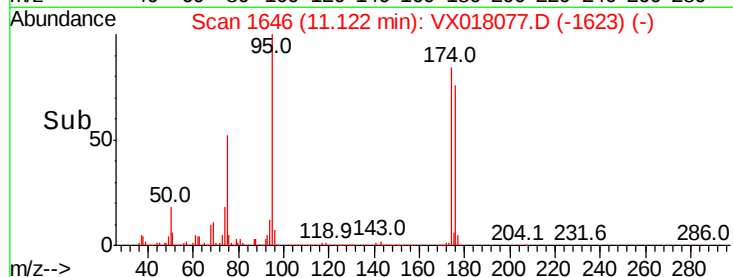
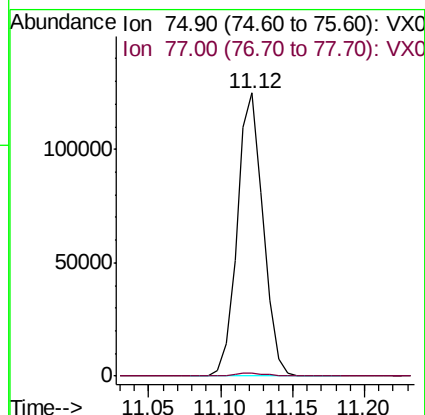
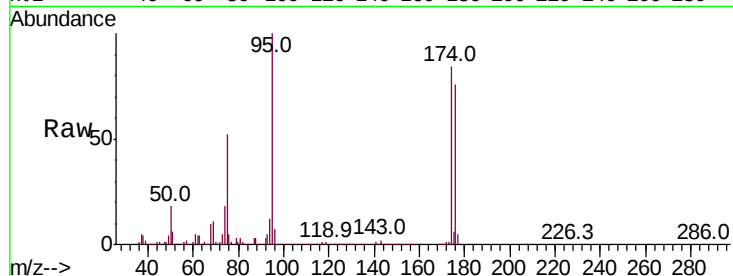
PB131195ZHE#08

Tot Ion: 75 Resp: 156194

Ion Ratio Lower Upper

75 100

77 1.3 20.8 62.2#



#80

1,3,5-Trimethylbenzene

Concen: 0.315 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX018077.D

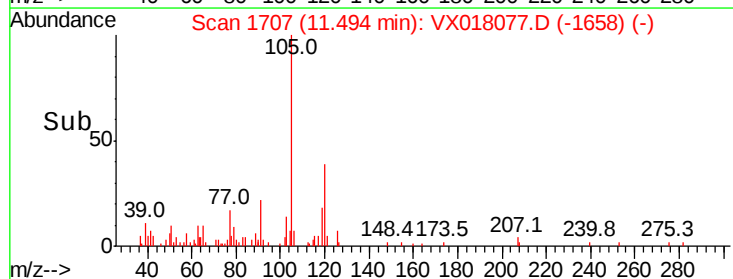
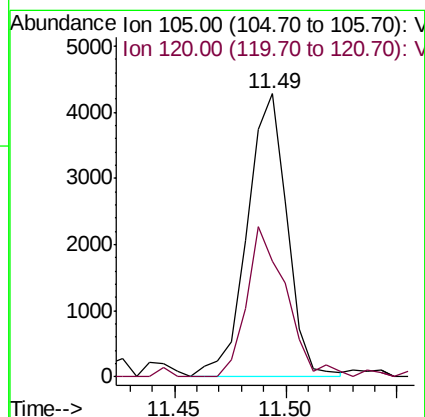
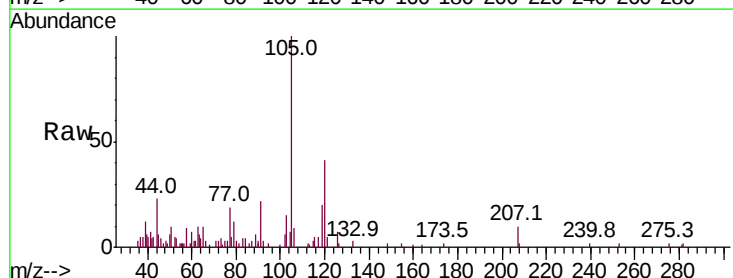
Acq: 26 Aug 2020 15:10

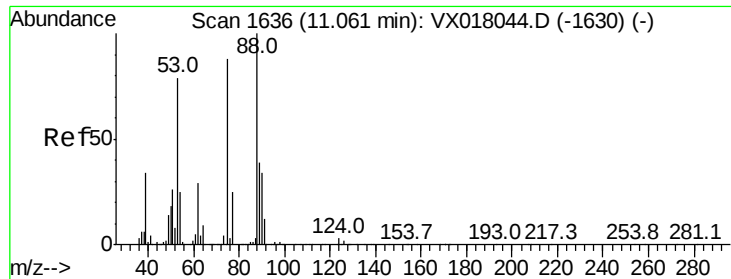
Tgt Ion: 105 Resp: 5363

Ion Ratio Lower Upper

105 100

120 52.2 24.1 72.2





#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.382 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX018077.D
 Acq: 26 Aug 2020 15:10

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131195ZHE#08

Tot Ion: 75 Resp: 156194
 Ion Ratio Lower Upper
 75 100
 53 0.4 74.7 112.1#
 89 0.2 36.6 54.8#

