

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019112.D
 Acq On : 24 Oct 2020 07:05
 Operator : JC/SP
 Sample : L4494-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 AB-EN

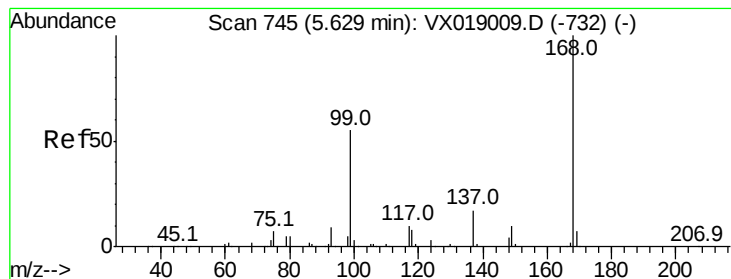
Quant Time: Oct 26 05:40:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102120W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 22 17:51:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	265404	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	460732	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	439498	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	218859	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	164444	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
35) Dibromofluoromethane	5.46	113	143358	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
50) Toluene-d8	8.70	98	568723	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	
62) 4-Bromofluorobenzene	11.12	95	199603	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	133	Below Cal		99
6) Chloroethane	1.71	64	109	1.313	ug/l #	43
11) Tert butyl alcohol	3.00	59	895	1.390	ug/l #	73
13) Acrolein	2.28	56	52	13.827	ug/l #	72
16) Acetone	2.42	43	11242	10.382	ug/l	99
18) Methyl Acetate	2.75	43	2220	0.826	ug/l	94
20) Methylene Chloride	2.84	84	5698	1.890	ug/l	96
25) 2-Butanone	4.65	43	1893	1.106	ug/l	92
31) Cyclohexane	5.62	56	4938	1.326	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	20091	4.860	ug/l #	48
37) Ethyl Acetate	4.65	43	1893	0.536	ug/l #	62
38) Carbon Tetrachloride	5.63	117	25551	5.888	ug/l #	17
43) Isopropyl Acetate	6.41	43	57549	9.630	ug/l	99
48) Methyl methacrylate	7.65	41	2769	0.940	ug/l #	5
49) 1,4-Dioxane	7.86	88	222	3.337	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	56262	15.977	ug/l #	45
54) cis-1,3-Dichloropropene	8.59	75	31910	6.135	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	5226	1.004	ug/l #	42
59) 2-Hexanone	9.42	43	60975	23.236	ug/l #	17
74) N-amyl acetate	10.81	43	2423	0.480	ug/l #	39
76) 1,2,3-Trichloropropane	11.12	75	100495	22.974	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	100495	58.531	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Instrument :

MSVOA_X

ClientSampled :

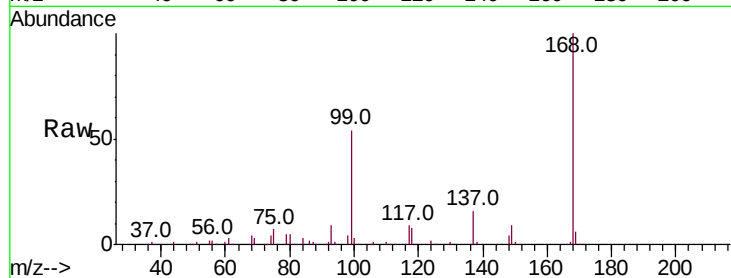
AB-EN

Tot Ion:168 Resp: 265404

Ion Ratio Lower Upper

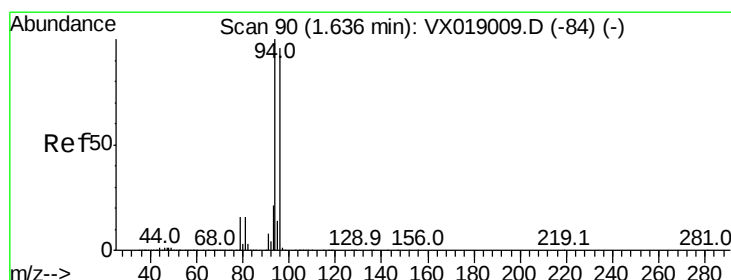
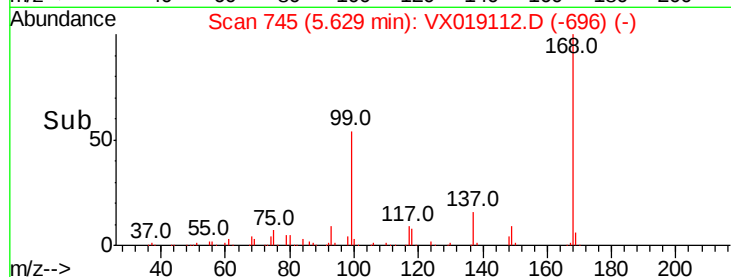
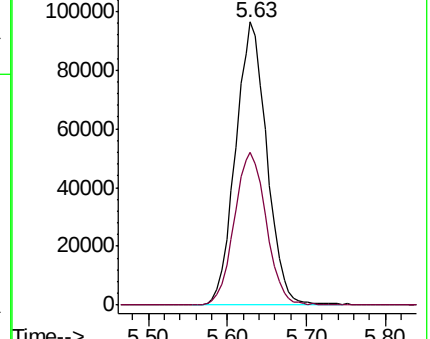
168 100

99 54.1 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX019112.D

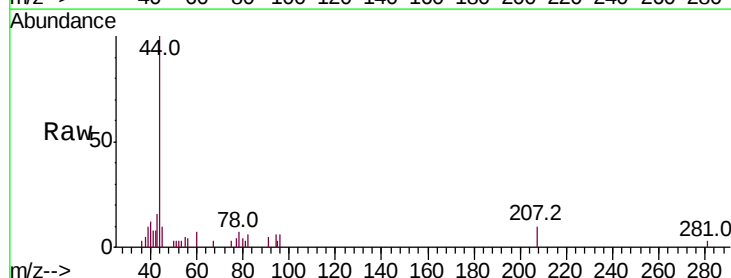
Acq: 24 Oct 2020 07:05

Tgt Ion: 94 Resp: 133

Ion Ratio Lower Upper

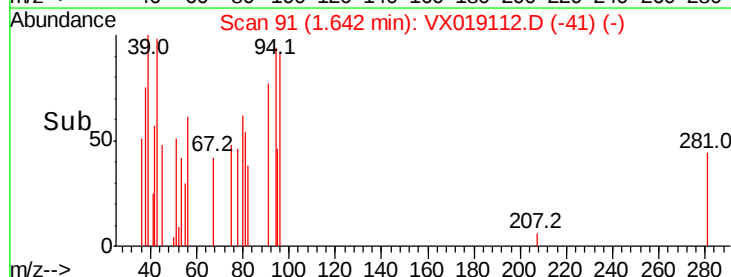
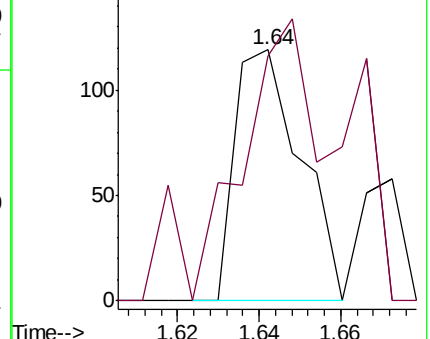
94 100

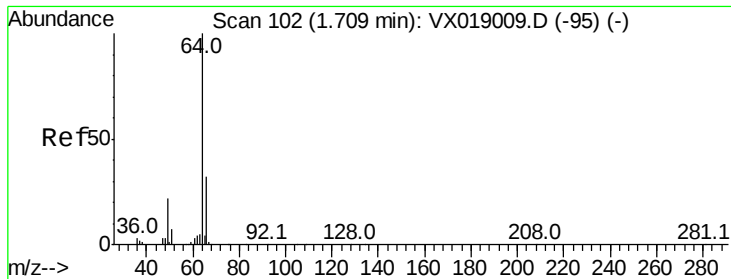
96 97.5 77.1 115.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.313 ug/l

RT: 1.71 min Scan# 102

Delta R.T. 0.00 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Instrument :

MSVOA_X

ClientSampleId :

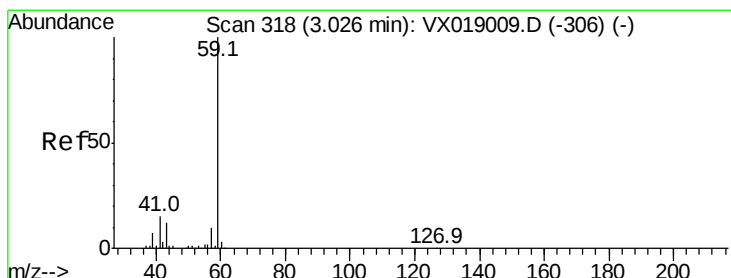
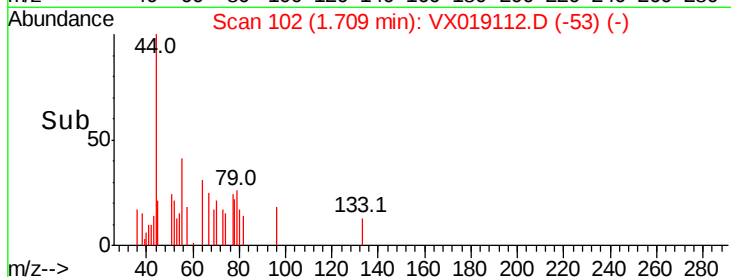
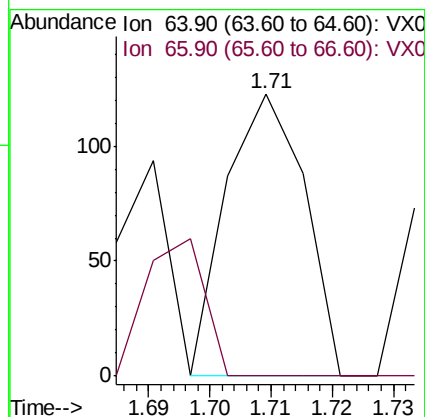
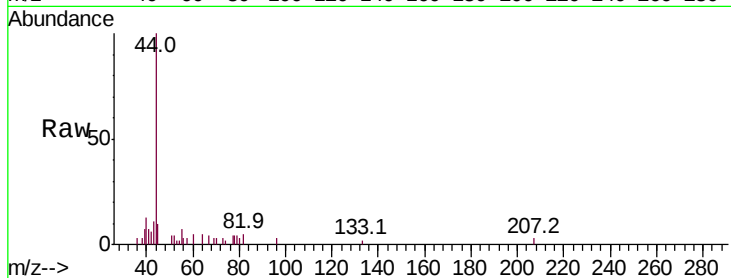
AB-EN

Tot Ion: 64 Resp: 109

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



#11

Tert butyl alcohol

Concen: 1.390 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.03 min

Lab File: VX019112.D

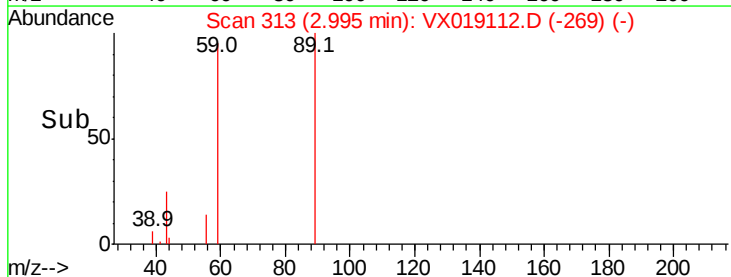
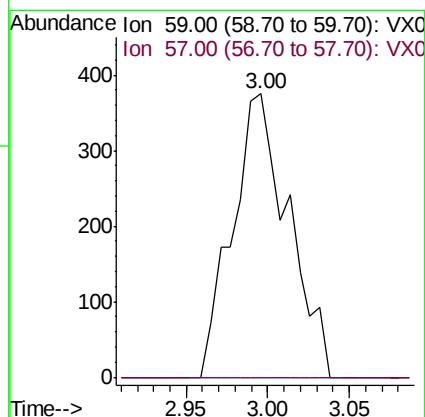
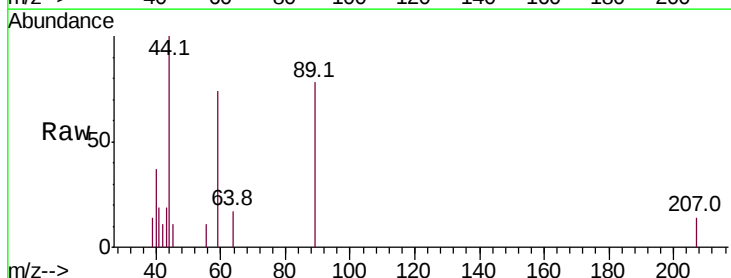
Acq: 24 Oct 2020 07:05

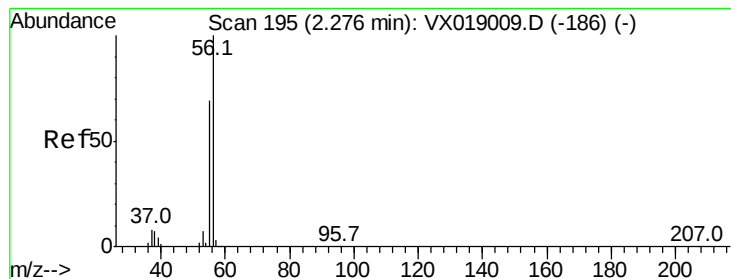
Tgt Ion: 59 Resp: 895

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#





#13

Acrolein

Concen: 13.827 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.00 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Instrument :

MSVOA_X

ClientSampled :

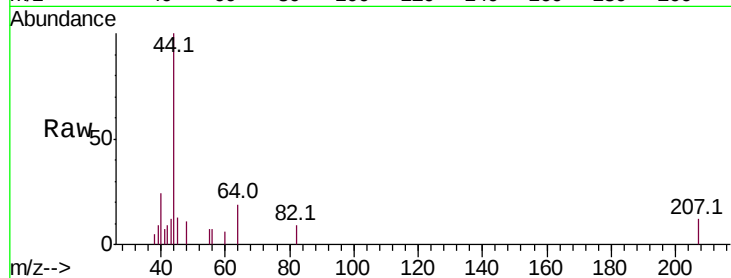
AB-EN

Tot Ion: 56 Resp: 52

Ion Ratio Lower Upper

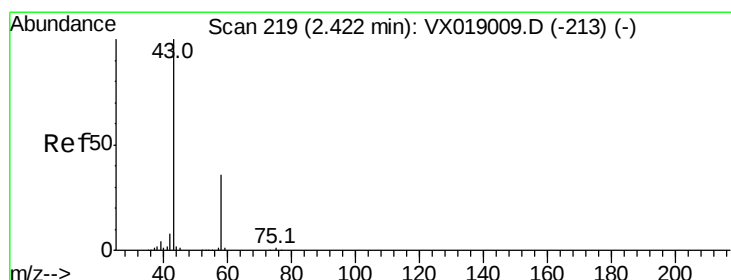
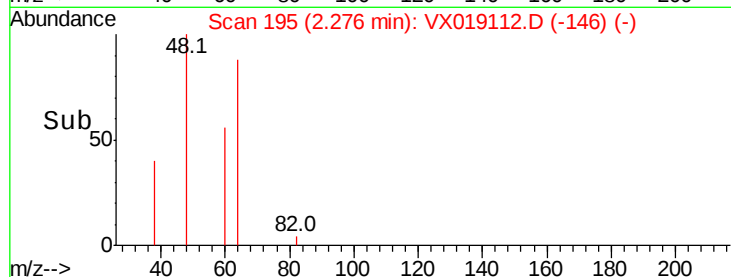
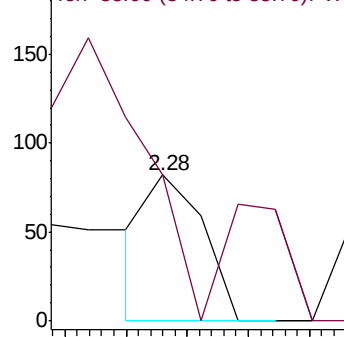
56 100

55 90.4 54.2 81.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 10.382 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019112.D

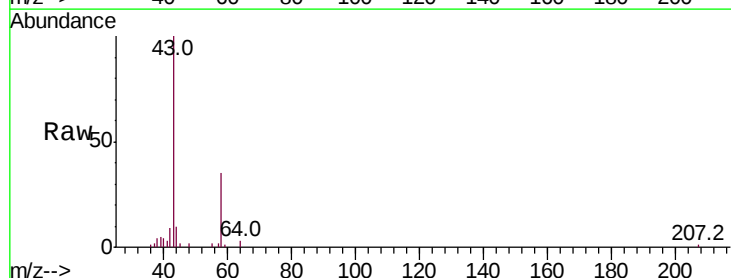
Acq: 24 Oct 2020 07:05

Tgt Ion: 43 Resp: 11242

Ion Ratio Lower Upper

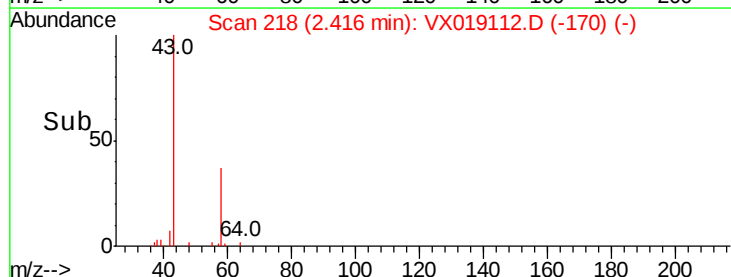
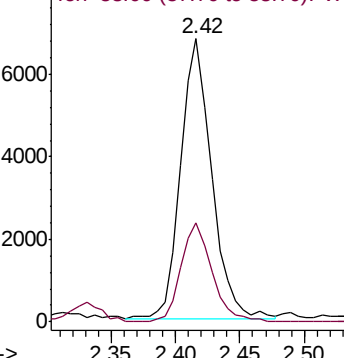
43 100

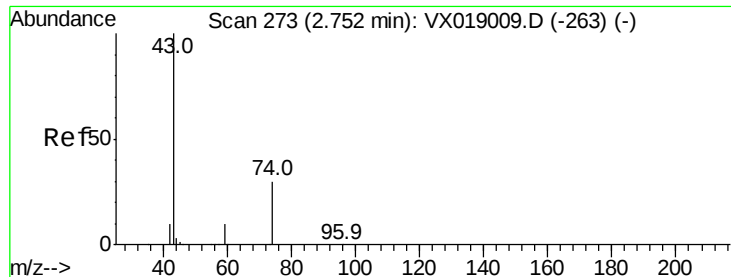
58 35.3 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

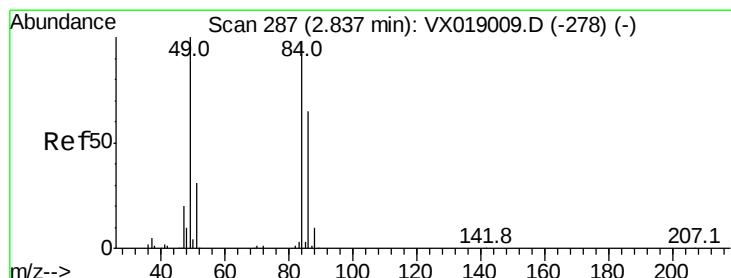
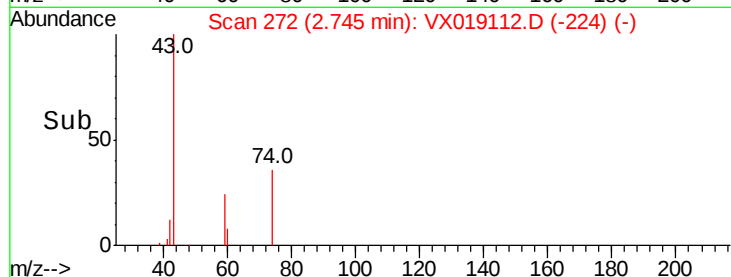
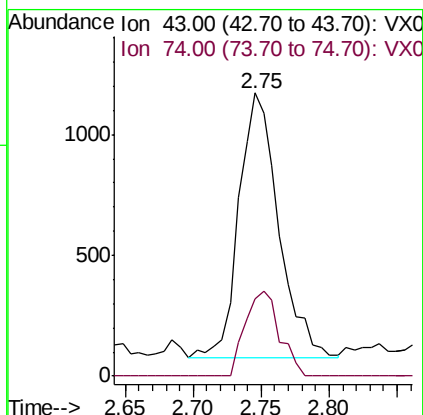
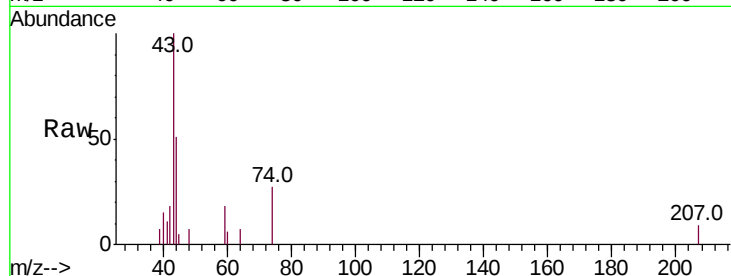




#18
Methyl Acetate
Concen: 0.826 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX019112.D
Acq: 24 Oct 2020 07:05

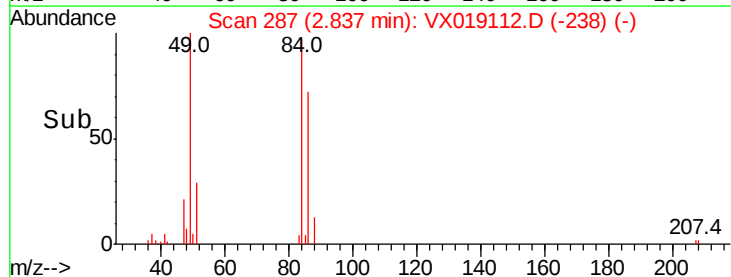
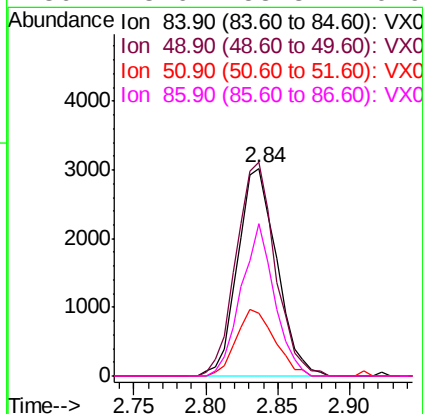
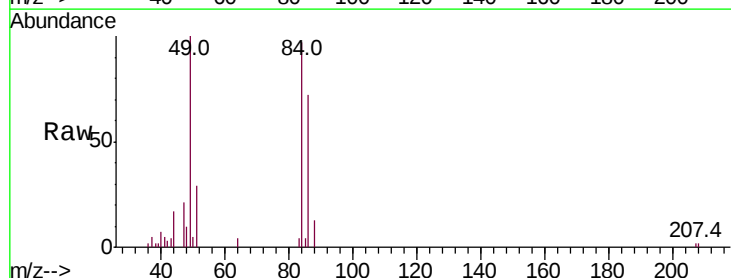
Instrument :
MSVOA_X
ClientSampled :
AB-EN

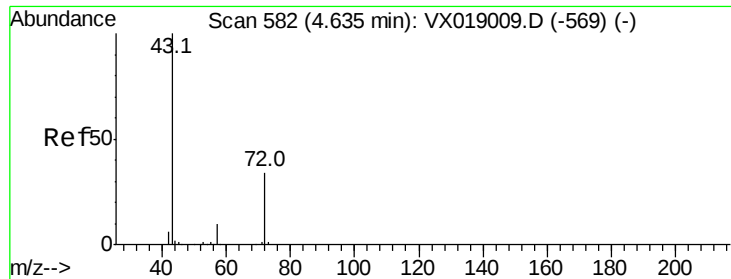
Tot Ion: 43 Resp: 2220
Ion Ratio Lower Upper
43 100
74 28.0 24.9 37.3



#20
Methylene Chloride
Concen: 1.890 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX019112.D
Acq: 24 Oct 2020 07:05

Tgt Ion: 84 Resp: 5698
Ion Ratio Lower Upper
84 100
49 102.8 81.6 122.4
51 30.0 25.6 38.4
86 73.6 53.3 79.9





#25

2-Butanone

Concen: 1.106 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Instrument :

MSVOA_X

ClientSampleId :

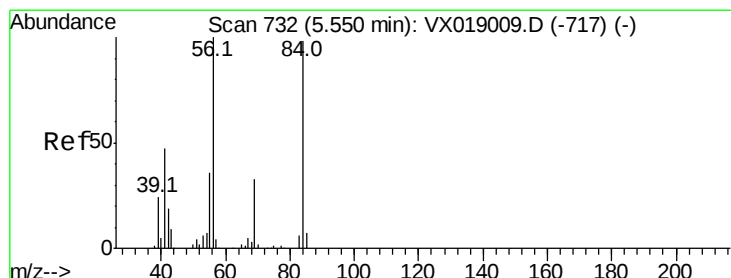
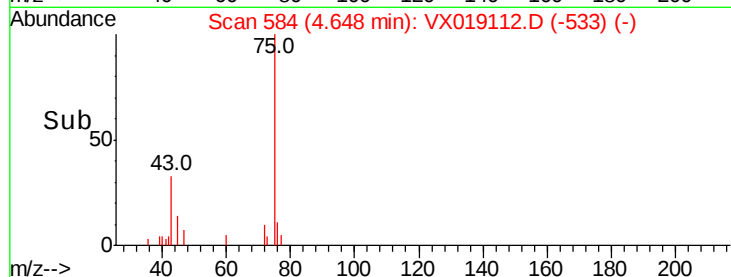
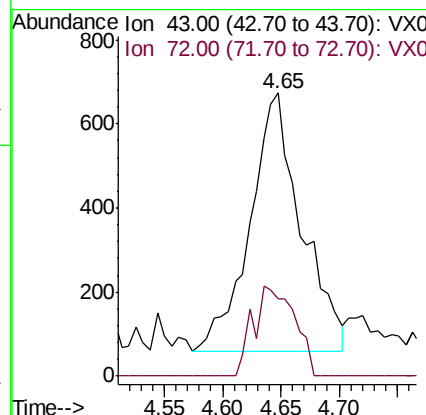
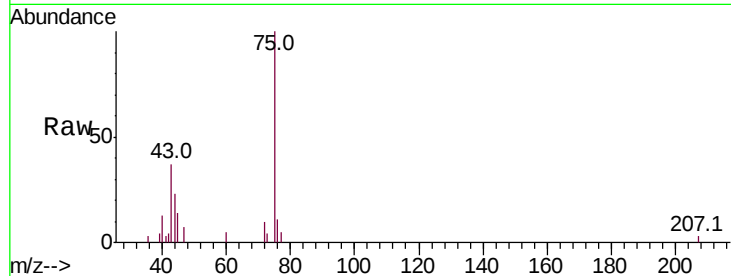
AB-EN

Tot Ion: 43 Resp: 1893

Ion Ratio Lower Upper

43 100

72 29.9 27.8 41.6



#31

Cyclohexane

Concen: 1.326 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

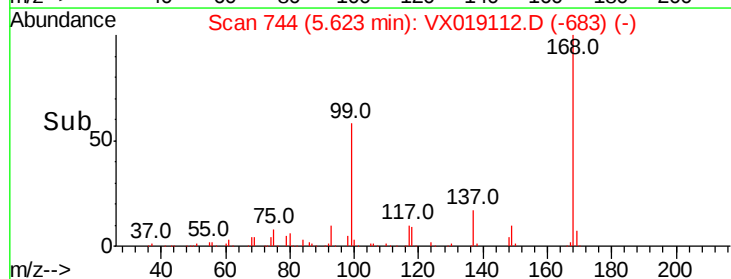
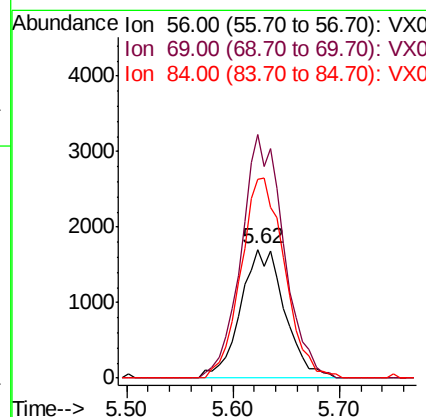
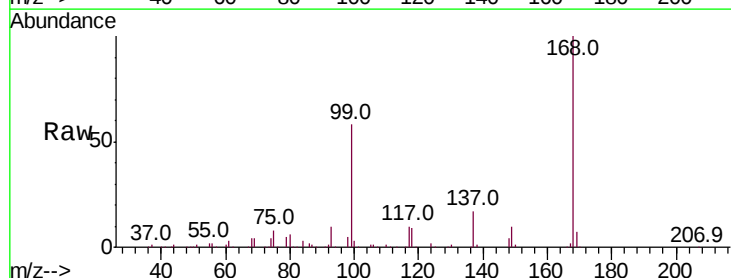
Tgt Ion: 56 Resp: 4938

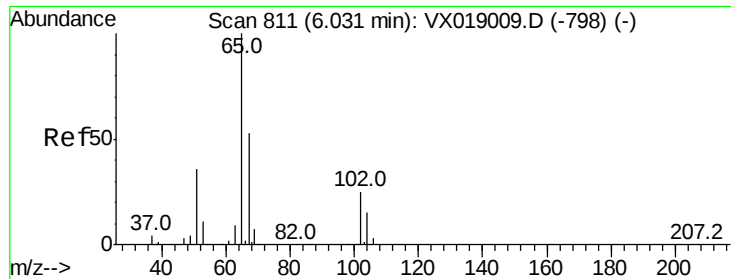
Ion Ratio Lower Upper

56 100

69 188.8 26.2 39.2#

84 154.3 78.3 117.5#

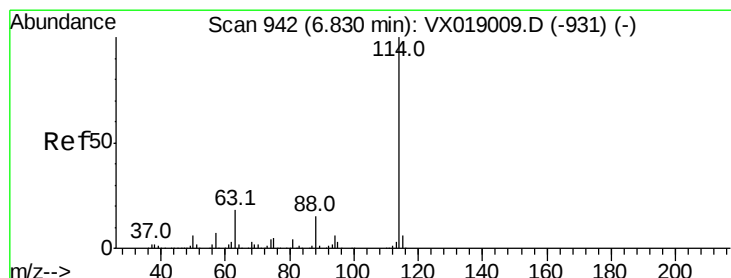
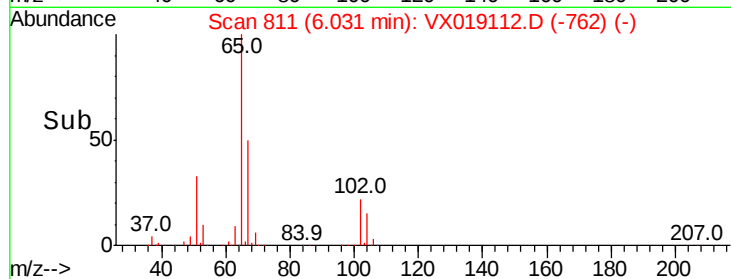
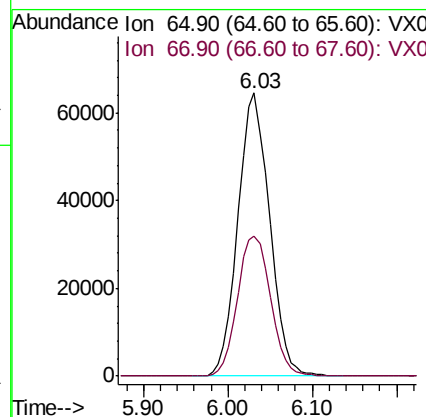
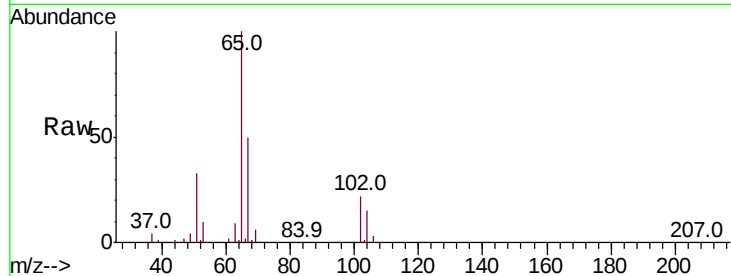




#33
 1,2-Dichloroethane-d4
 Concen: 51.726 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VX019112.D
 Acq: 24 Oct 2020 07:05

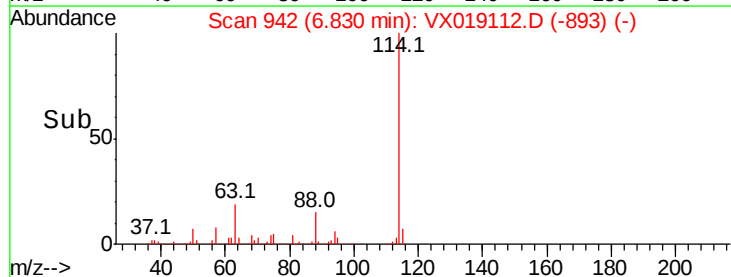
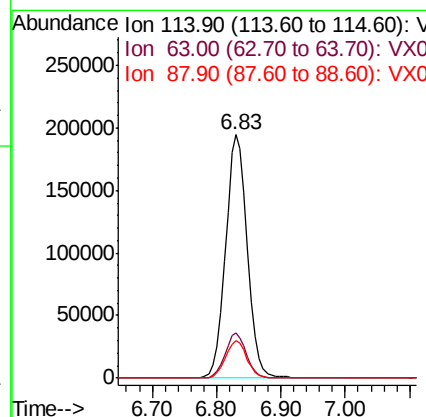
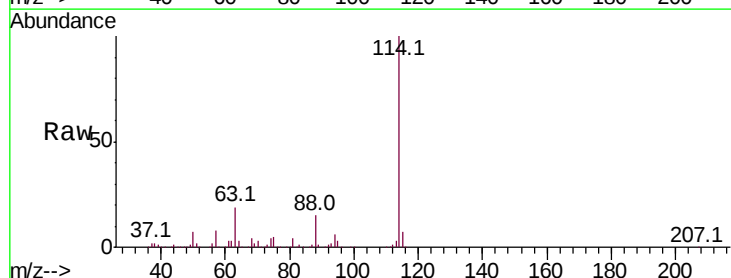
Instrument :
 MSVOA_X
 ClientSampleId :
 AB-EN

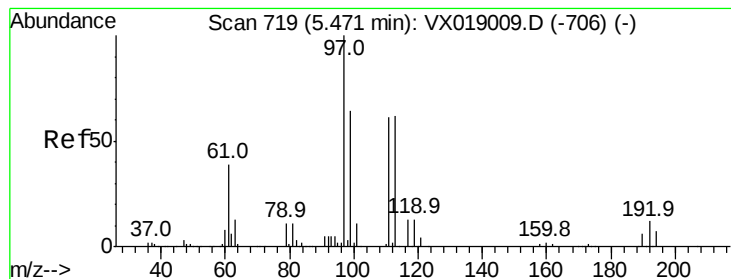
Tot Ion: 65 Resp: 164444
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX019112.D
 Acq: 24 Oct 2020 07:05

Tgt Ion: 114 Resp: 460732
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 36.8
 88 15.2 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.145 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Instrument :

MSVOA_X

ClientSampleId :

AB-EN

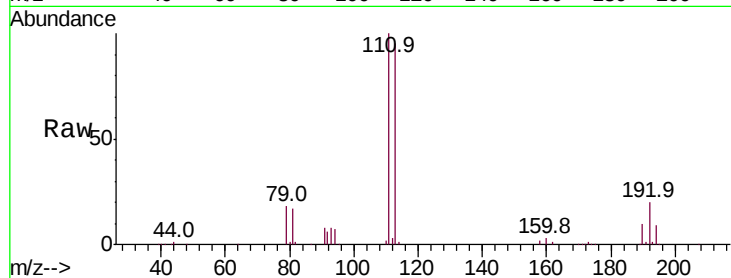
Tot Ion:113 Resp: 143358

Ion Ratio Lower Upper

113 100

111 103.3 81.5 122.3

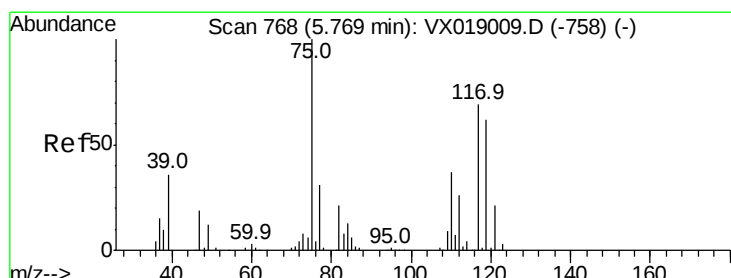
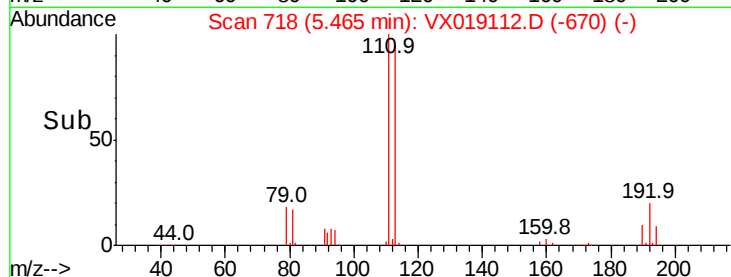
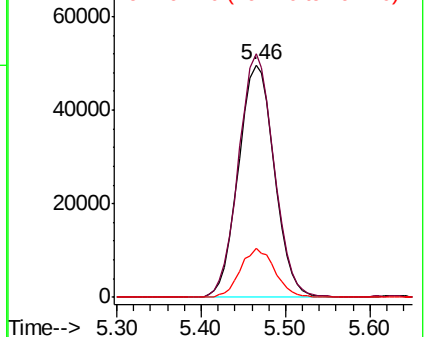
192 20.2 16.3 24.5



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: 4.860 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

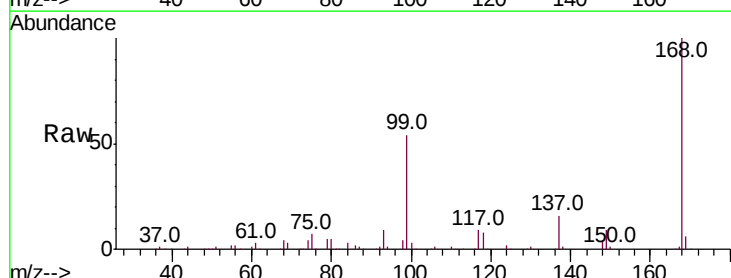
Tgt Ion: 75 Resp: 20091

Ion Ratio Lower Upper

75 100

110 9.5 19.4 58.2#

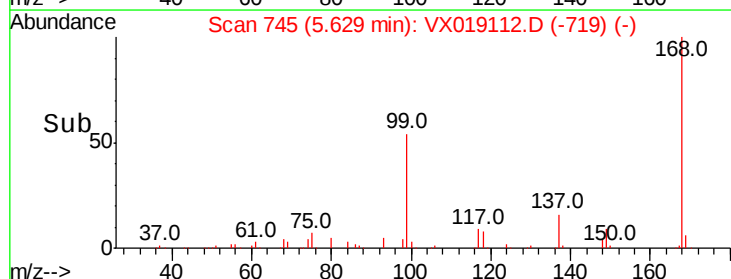
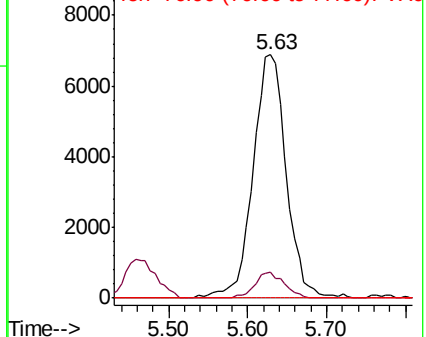
77 0.0 25.2 37.8#

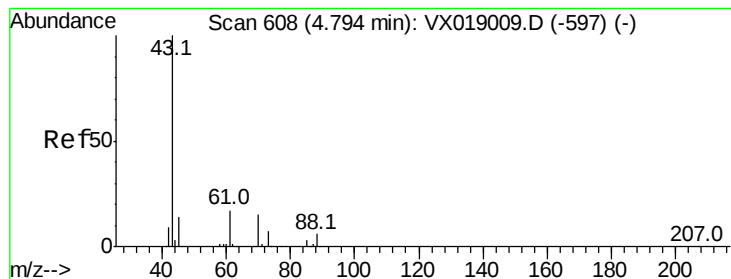


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 0.536 ug/l

RT: 4.65 min Scan# 584

Delta R.T. -0.15 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Instrument :

MSVOA_X

ClientSampleId :

AB-EN

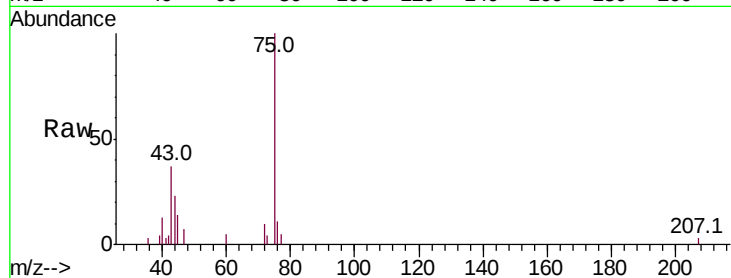
Tot Ion: 43 Resp: 1893

Ion Ratio Lower Upper

43 100

61 0.0 13.8 20.8#

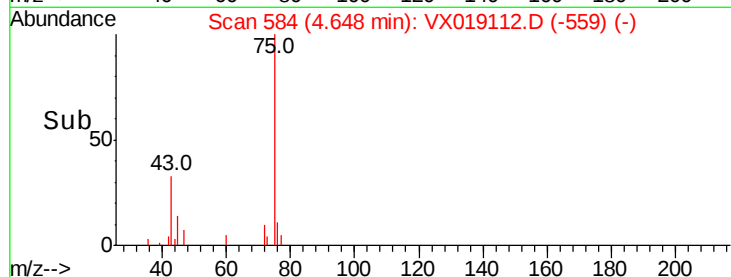
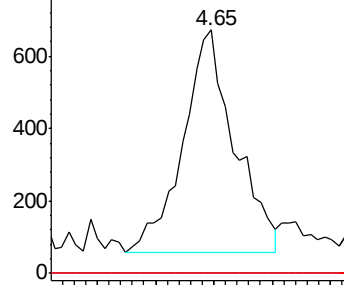
70 0.0 11.4 17.2#



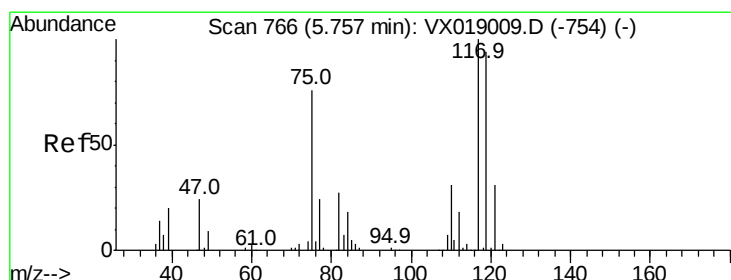
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



Time-->



#38

Carbon Tetrachloride

Concen: 5.888 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

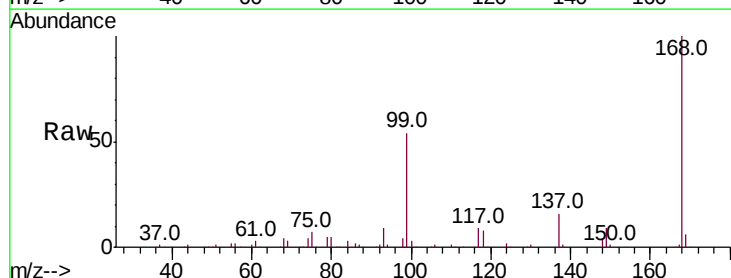
Tgt Ion: 117 Resp: 25551

Ion Ratio Lower Upper

117 100

119 5.2 75.4 113.0#

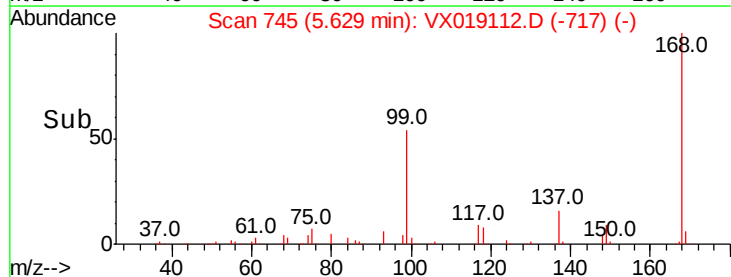
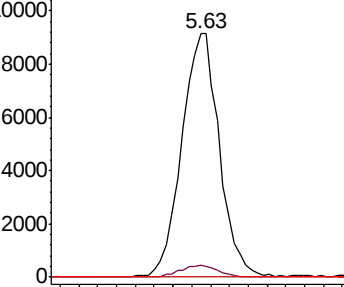
121 0.0 25.0 37.6#



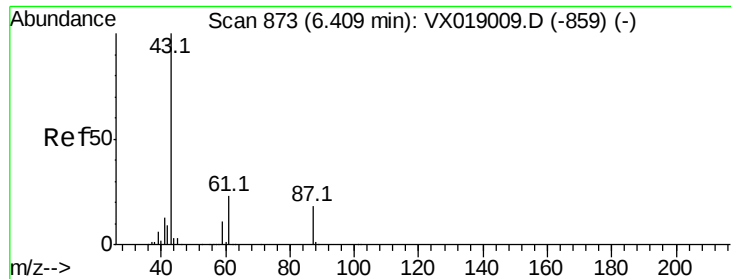
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



Time-->



#43

Isopropyl Acetate

Concen: 9.630 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.00 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Instrument :

MSVOA_X

ClientSampleId :

AB-EN

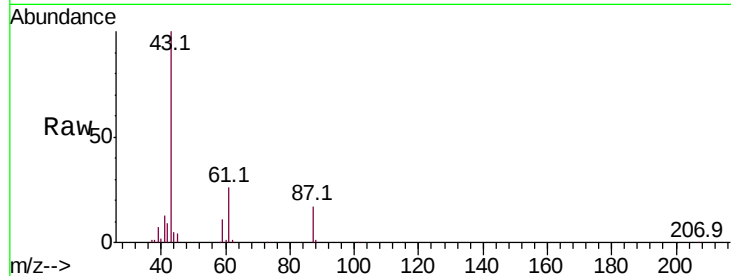
Tot Ion: 43 Resp: 57549

Ion Ratio Lower Upper

43 100

61 24.6 18.7 28.1

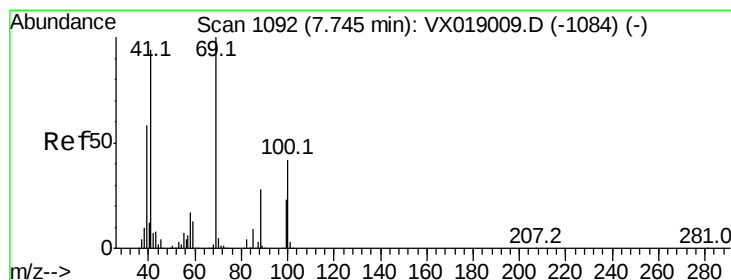
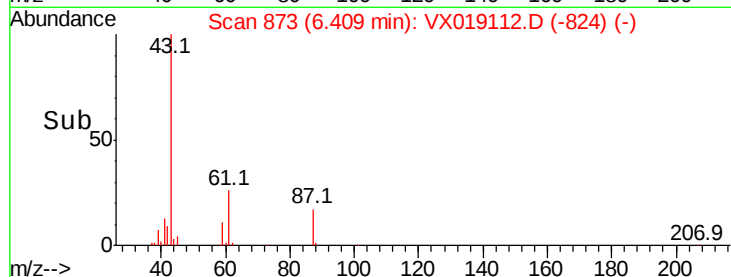
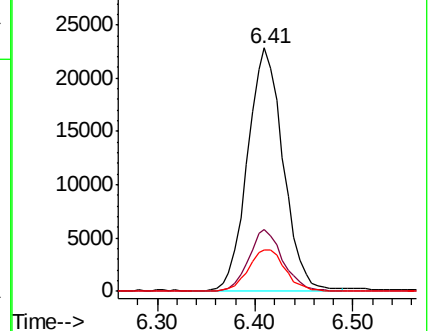
87 17.8 14.2 21.4



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: 0.940 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.10 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

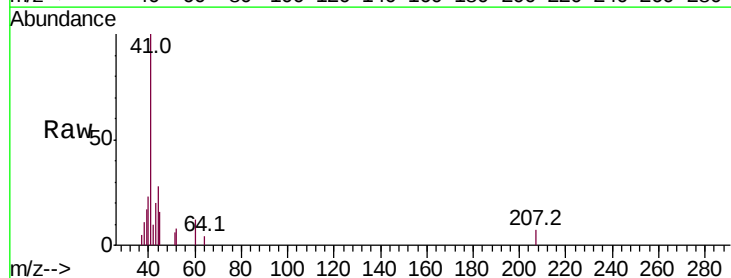
Tgt Ion: 41 Resp: 2769

Ion Ratio Lower Upper

41 100

69 0.0 85.5 128.3#

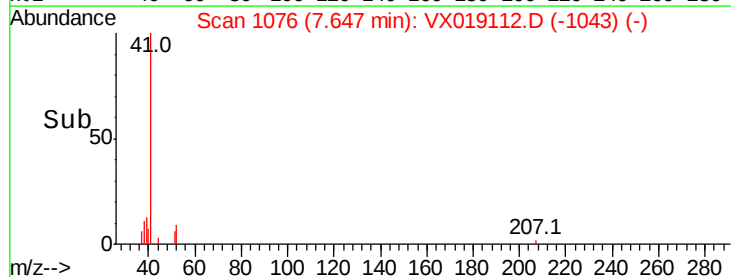
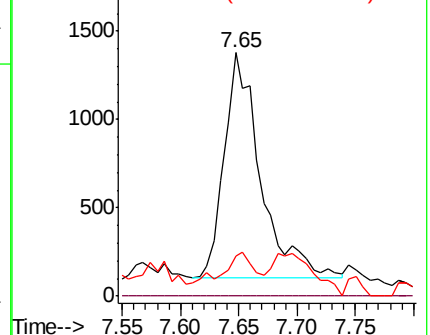
39 0.0 49.3 73.9#

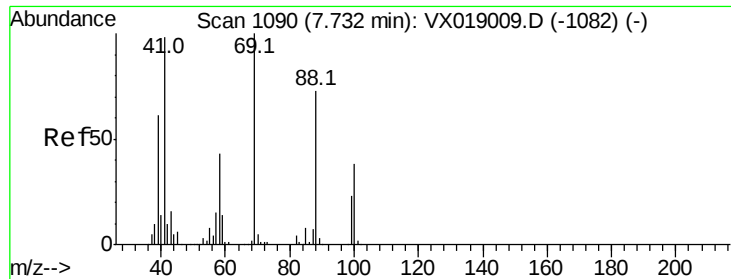


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 3.337 ug/l

RT: 7.86 min Scan# 1111

Delta R.T. 0.13 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Instrument :

MSVOA_X

ClientSampleId :

AB-EN

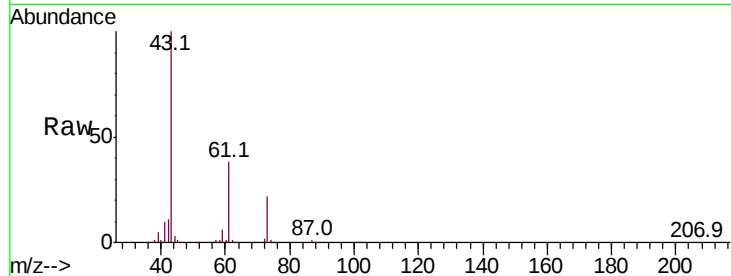
Tot Ion: 88 Resp: 222

Ion Ratio Lower Upper

88 100

43 418272.5 20.3 30.5#

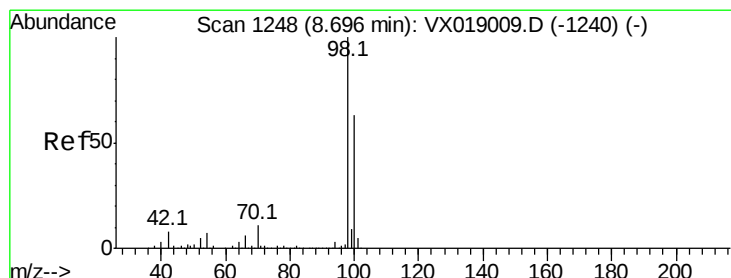
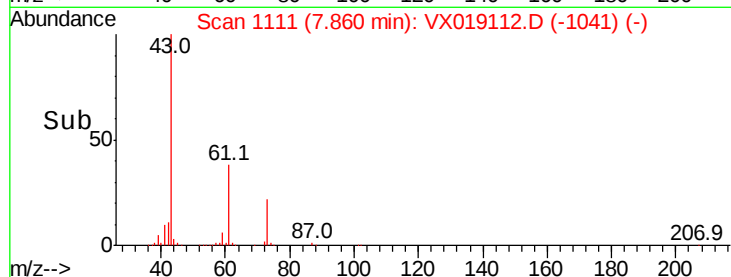
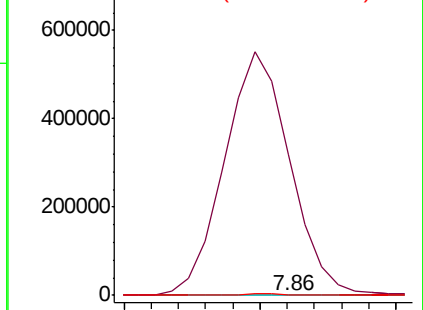
58 2196.4 48.4 72.6#



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: 51.091 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019112.D

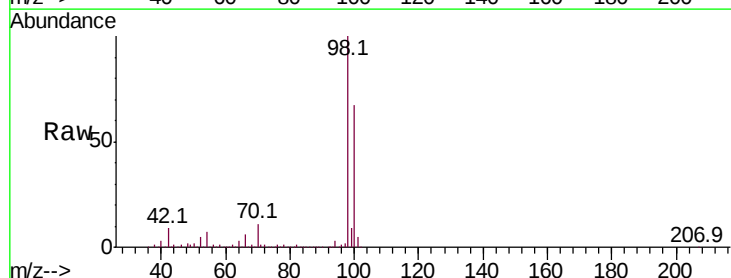
Acq: 24 Oct 2020 07:05

Tgt Ion: 98 Resp: 568723

Ion Ratio Lower Upper

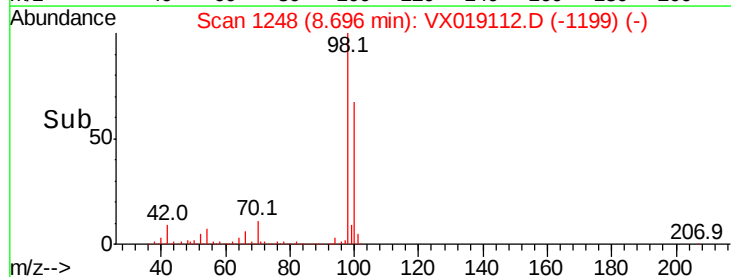
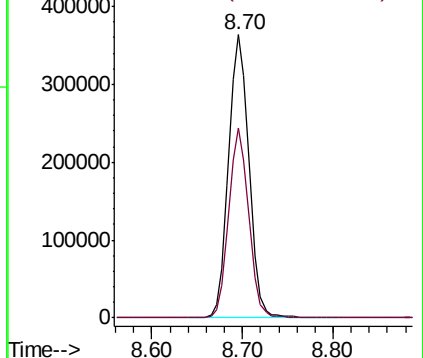
98 100

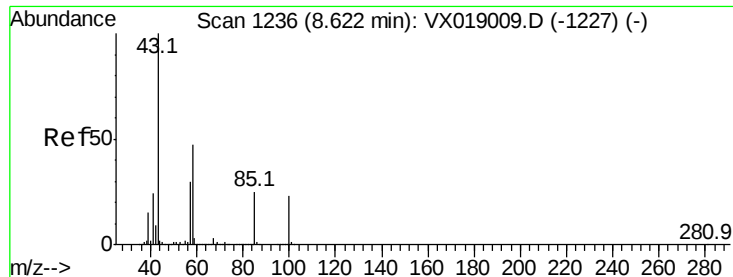
100 65.8 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 15.977 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Instrument :

MSVOA_X

ClientSampleId :

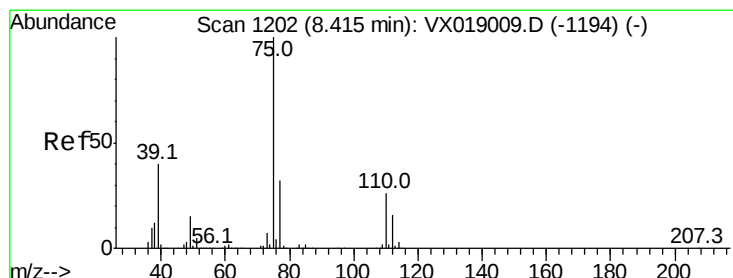
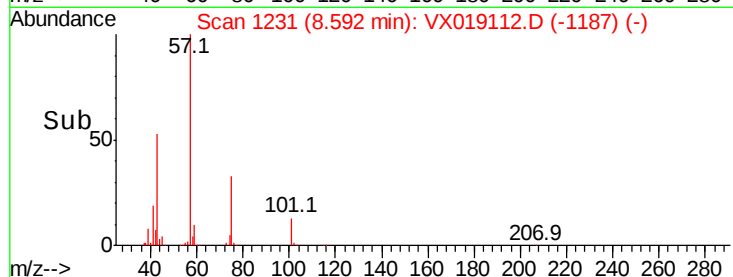
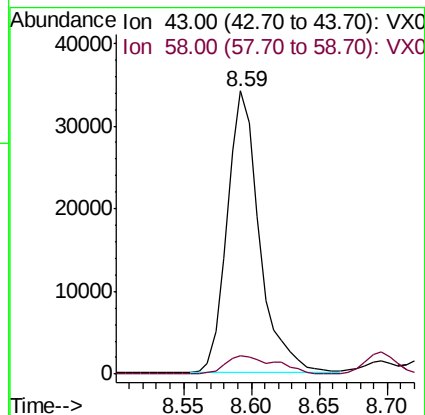
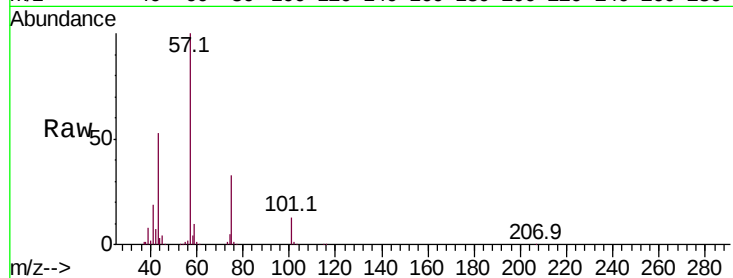
AB-EN

Tot Ion: 43 Resp: 56262

Ion Ratio Lower Upper

43 100

58 10.3 37.4 56.0#



#54

cis-1,3-Dichloropropene

Concen: 6.135 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

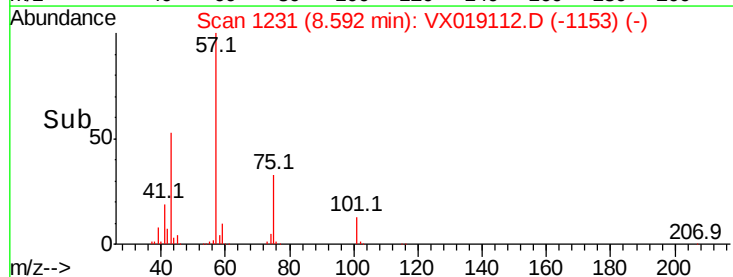
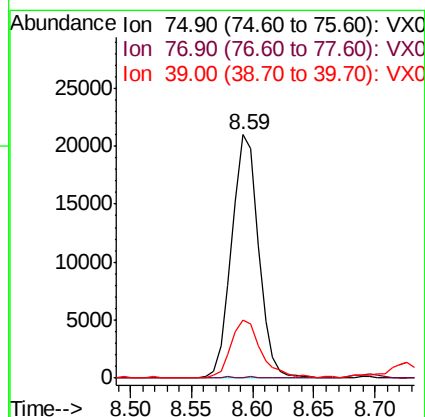
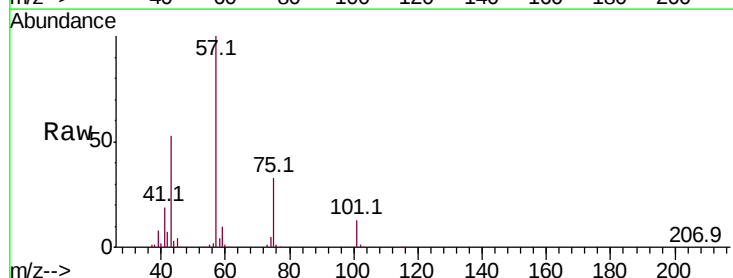
Tgt Ion: 75 Resp: 31910

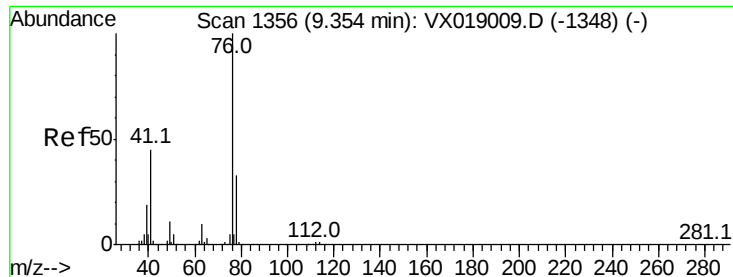
Ion Ratio Lower Upper

75 100

77 0.3 25.9 38.9#

39 23.5 31.7 47.5#





#57

1,3-Dichloropropane

Concen: 1.004 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Instrument :

MSVOA_X

ClientSampleId :

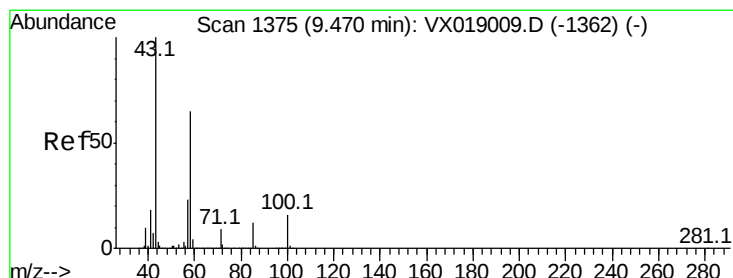
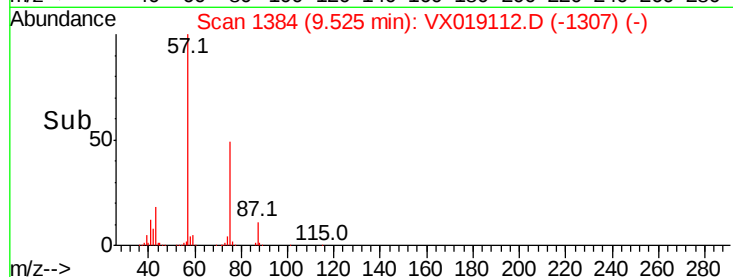
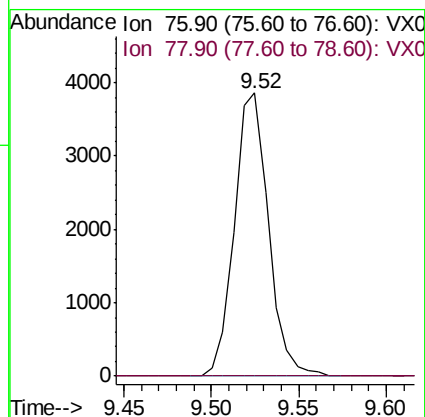
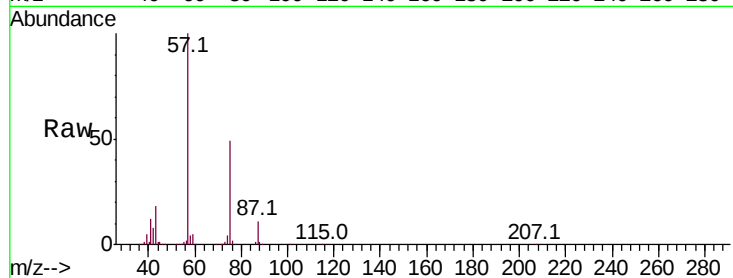
AB-EN

Tot Ion: 76 Resp: 5226

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 23.236 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX019112.D

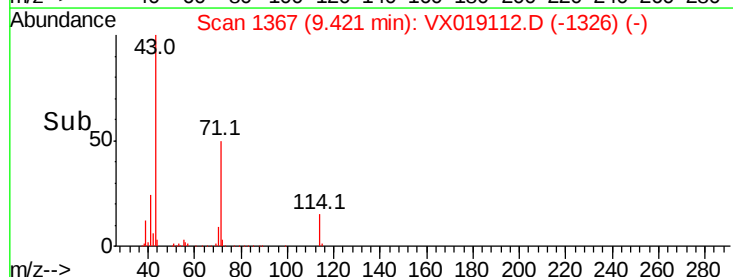
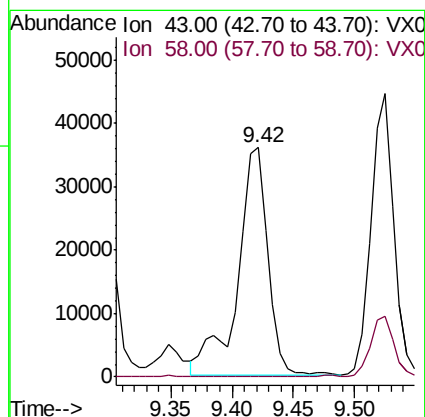
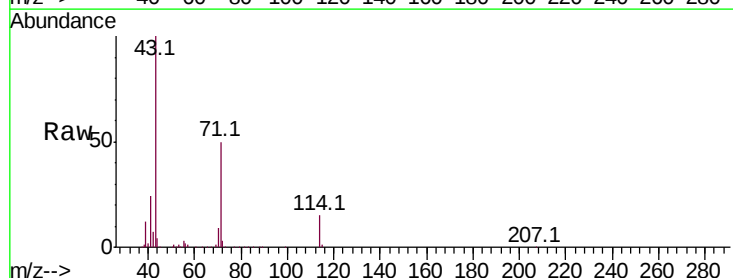
Acq: 24 Oct 2020 07:05

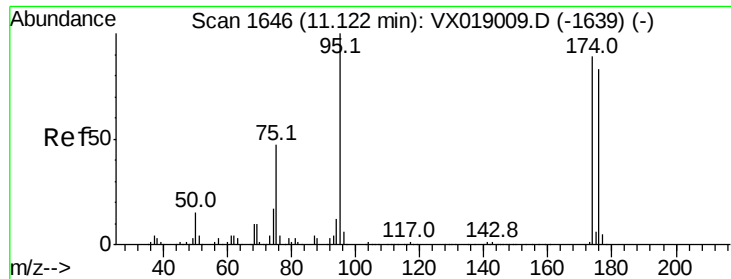
Tgt Ion: 43 Resp: 60975

Ion Ratio Lower Upper

43 100

58 0.0 32.8 98.4#





#62

4-Bromofluorobenzene

Concen: 50.411 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Instrument :

MSVOA_X

ClientSampleId :

AB-EN

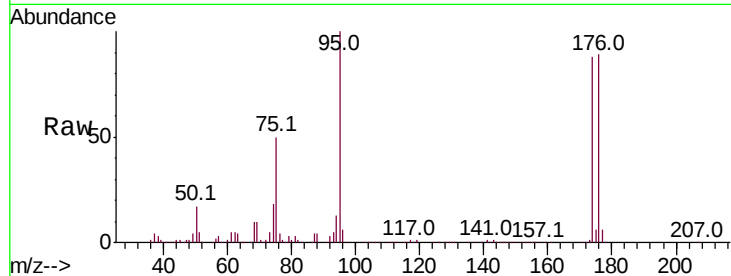
Tot Ion: 95 Resp: 199603

Ion Ratio Lower Upper

95 100

174 85.4 0.0 167.6

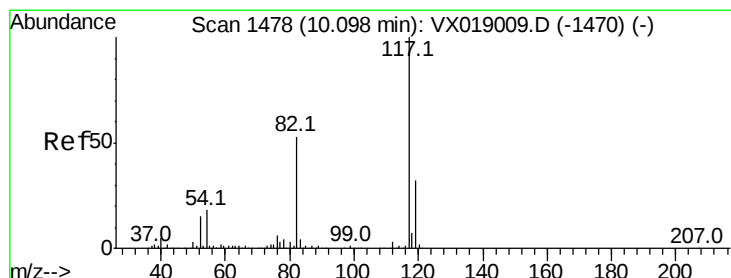
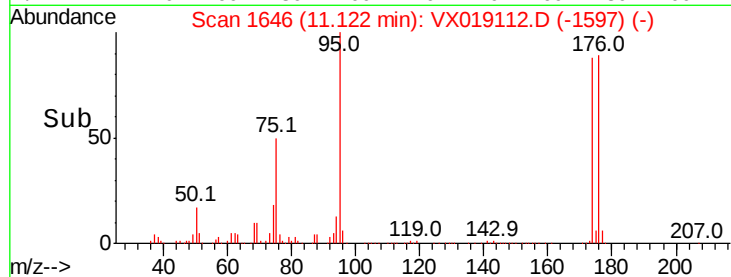
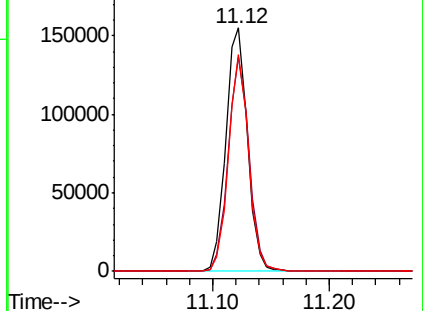
176 83.2 0.0 165.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

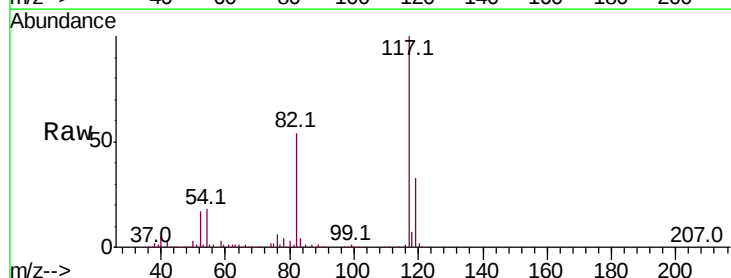
Tgt Ion: 117 Resp: 439498

Ion Ratio Lower Upper

117 100

82 53.6 42.4 63.6

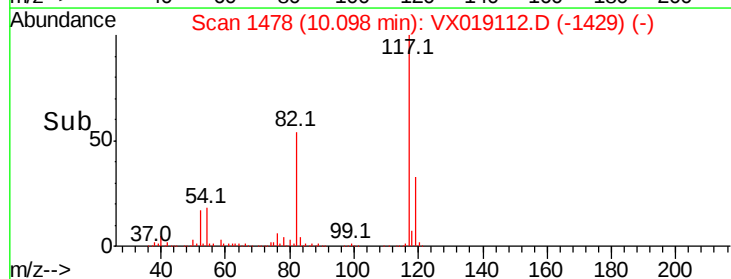
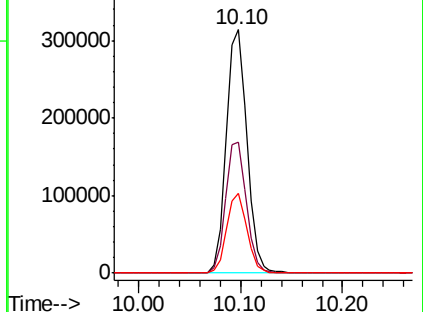
119 32.8 25.6 38.4

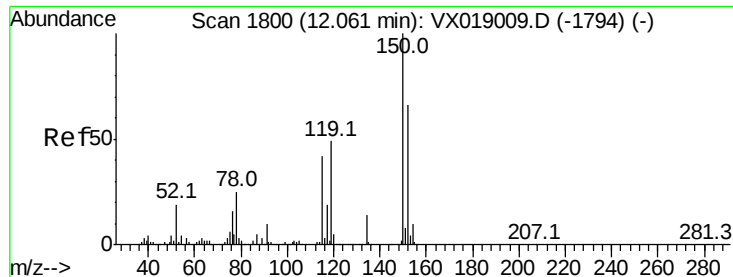


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Instrument :

MSVOA_X

ClientSampleId :

AB-EN

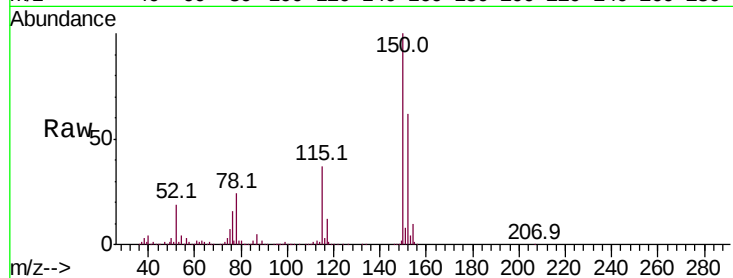
Tot Ion:152 Resp: 218859

Ion Ratio Lower Upper

152 100

115 58.1 40.8 122.5

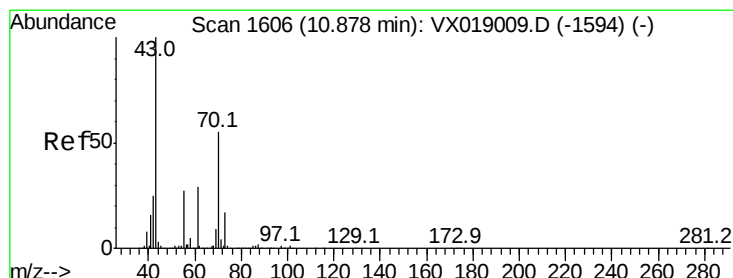
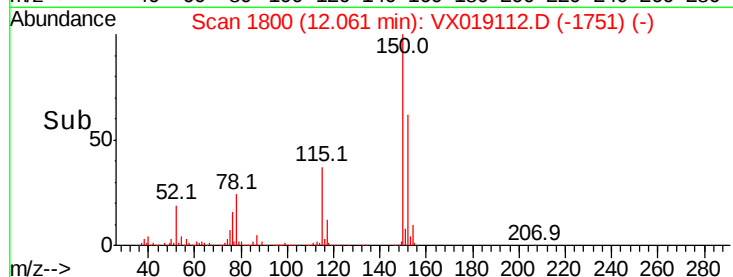
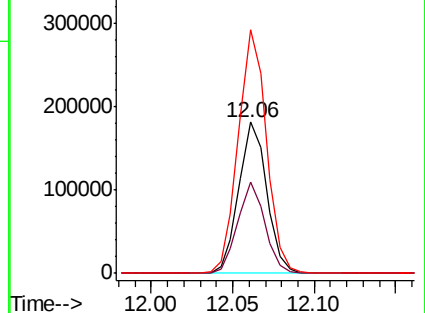
150 161.5 0.0 345.6



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: 0.480 ug/l

RT: 10.81 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Tgt Ion: 43 Resp: 2423

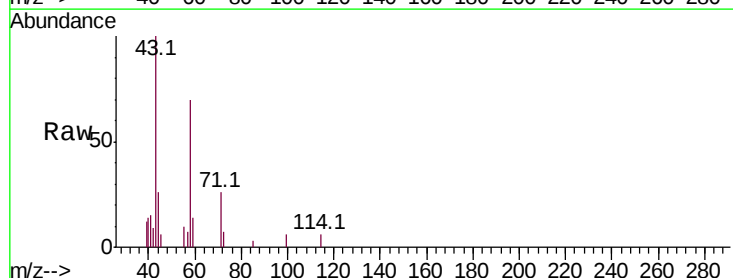
Ion Ratio Lower Upper

43 100

70 0.0 44.5 66.7#

55 9.7 21.9 32.9#

61 0.0 23.9 35.9#

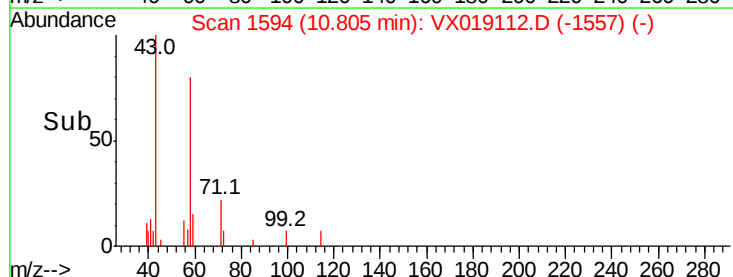
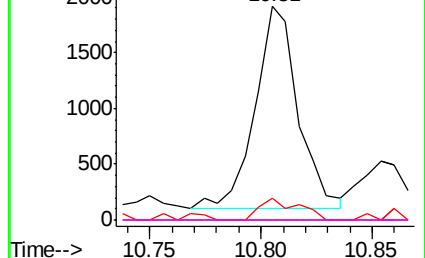


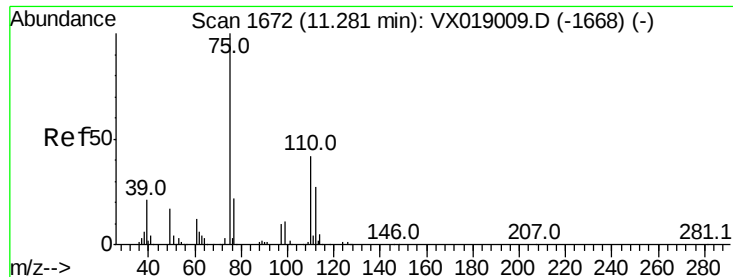
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.974 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Instrument :

MSVOA_X

ClientSampleId :

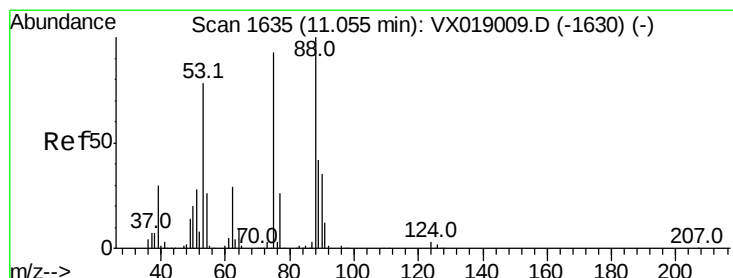
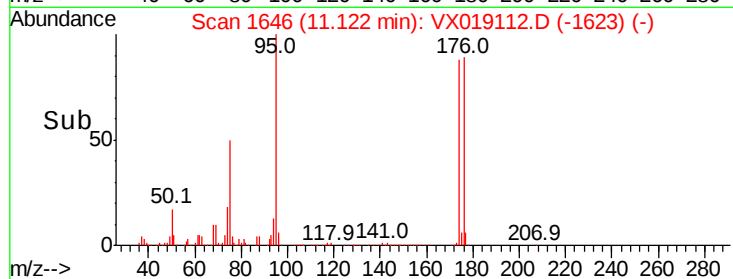
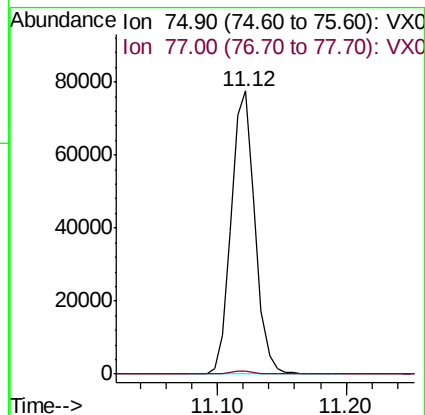
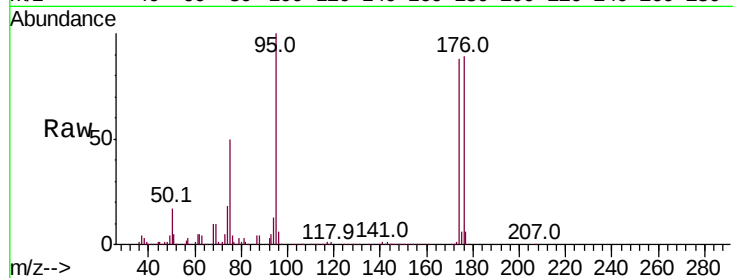
AB-EN

Tot Ion: 75 Resp: 100495

Ion Ratio Lower Upper

75 100

77 1.2 20.7 62.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.531 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019112.D

Acq: 24 Oct 2020 07:05

Tgt Ion: 75 Resp: 100495

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 37.2 55.8#

