

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019321.D
 Acq On : 05 Nov 2020 17:55
 Operator : JC/MD
 Sample : PB132824ZHE#11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

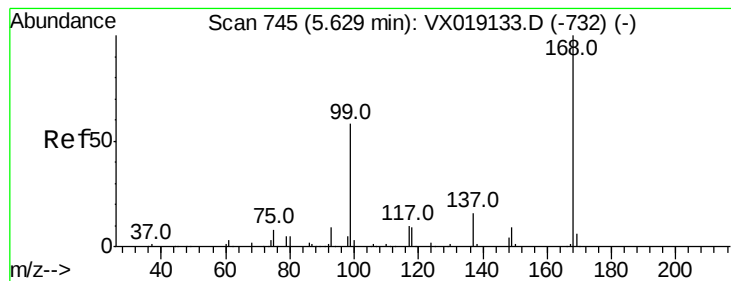
Quant Time: Nov 06 01:09:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	266672	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	477535	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	461669	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	219239	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	194598	56.58	ug/l	0.00
Spiked Amount			Recovery	=	113.16%	
35) Dibromofluoromethane	5.46	113	152119	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
50) Toluene-d8	8.70	98	591858	52.34	ug/l	0.00
Spiked Amount			Recovery	=	104.68%	
62) 4-Bromofluorobenzene	11.12	95	224027	52.32	ug/l	0.00
Spiked Amount			Recovery	=	104.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.99	59	1294	1.905	ug/l #	72
13) Acrolein	2.26	56	222	6.362	ug/l #	76
16) Acetone	2.42	43	9166	7.726	ug/l	99
17) Carbon Disulfide	2.55	76	252	0.794	ug/l #	75
18) Methyl Acetate	2.75	43	3159	1.095	ug/l	97
20) Methylene Chloride	2.84	84	5840	1.961	ug/l #	85
25) 2-Butanone	4.65	43	1489	0.796	ug/l #	84
29) Tetrahydrofuran	5.10	42	1029	0.873	ug/l #	77
31) Cyclohexane	5.63	56	5830	1.341	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22274	5.051	ug/l #	49
38) Carbon Tetrachloride	5.63	117	28154	6.264	ug/l #	18
43) Isopropyl Acetate	6.41	43	77537	11.310	ug/l	98
48) Methyl methacrylate	7.66	41	3867	1.172	ug/l #	9
49) 1,4-Dioxane	7.84	88	244	3.325	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	75162	19.076	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	37063	6.913	ug/l #	63
56) Ethyl methacrylate	9.29	69	1312	0.273	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6500	1.212	ug/l #	44
59) 2-Hexanone	9.42	43	73002	24.339	ug/l #	20
74) N-amyl acetate	10.80	43	3342	0.589	ug/l #	43
76) 1,2,3-Trichloropropane	11.12	75	116619	25.762	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	11736	0.895	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.12	75	116619	67.831	ug/l #	13

(#) = 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: VX019321.D

Acq: 05 Nov 2020 17:55

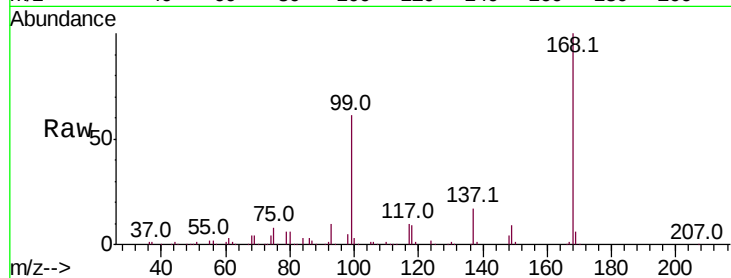
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 266672

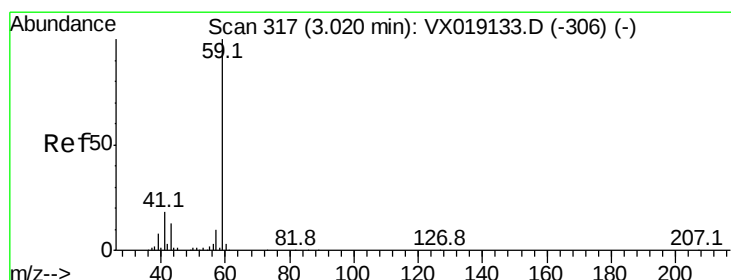
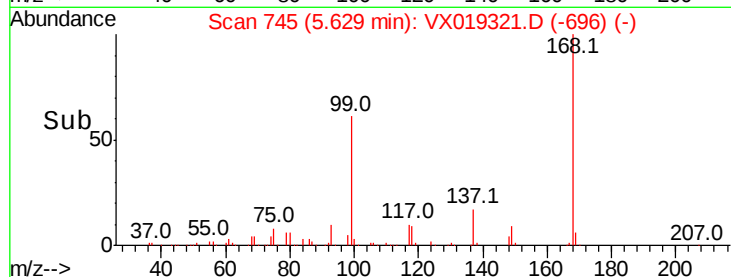
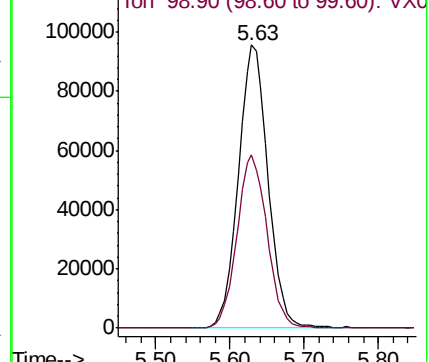
Ion Ratio Lower Upper

168 100

99 61.2 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V



#11

Tert butyl alcohol

Concen: 1.905 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.03 min

Lab File: VX019321.D

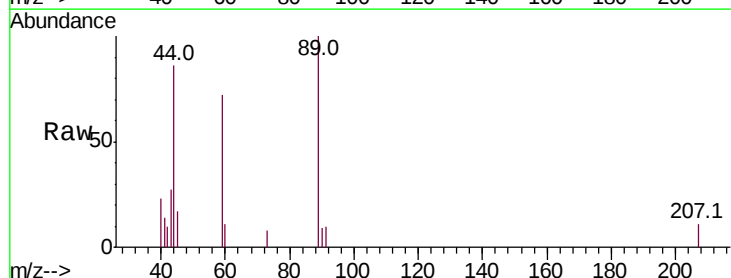
Acq: 05 Nov 2020 17:55

Tgt Ion: 59 Resp: 1294

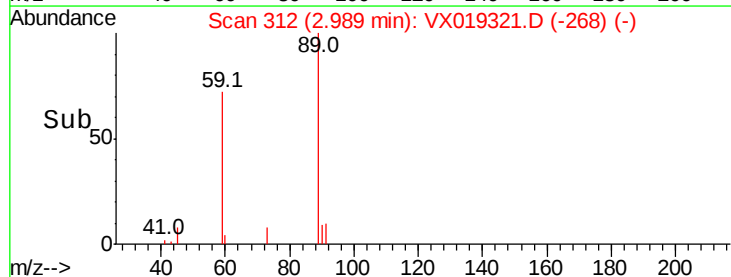
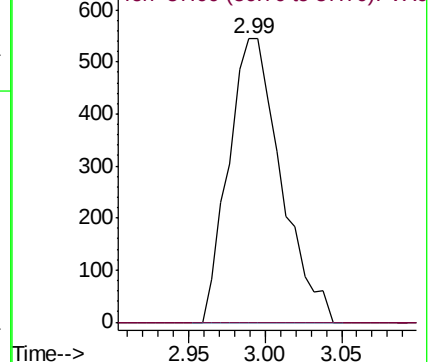
Ion Ratio Lower Upper

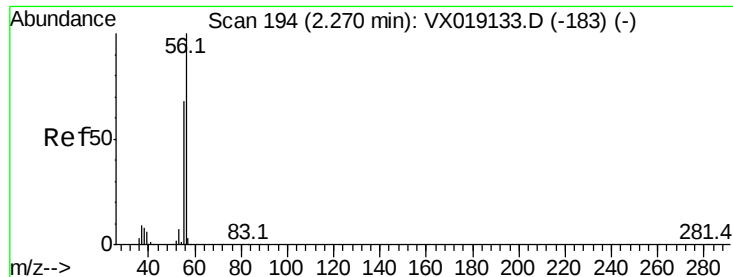
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0





#13

Acrolein

Concen: 6.362 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX019321.D

Acq: 05 Nov 2020 17:55

Instrument :

MSVOA_X

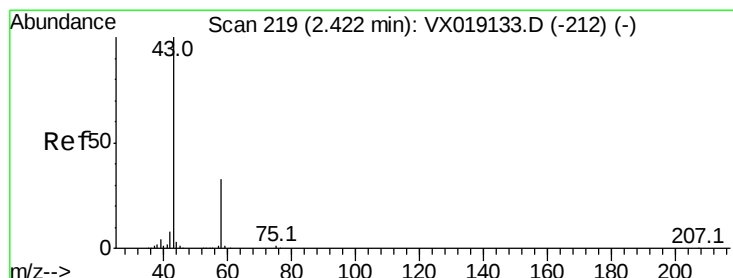
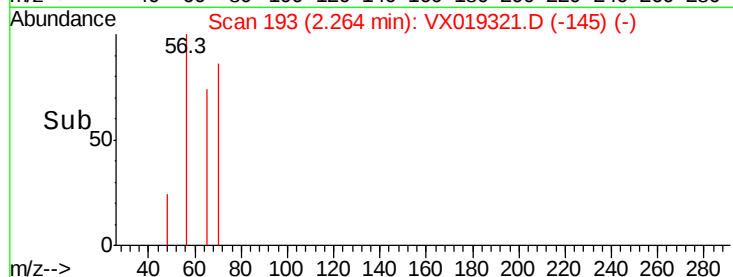
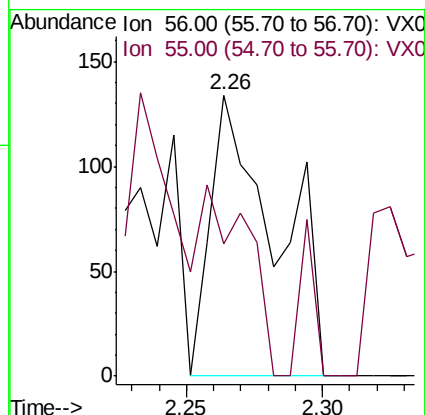
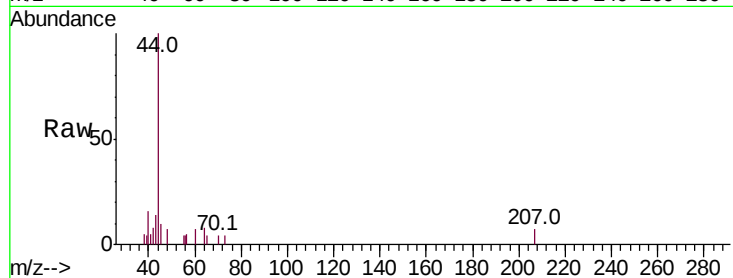
ClientSampleId :

Tot Ion: 56 Resp: 222

Ion Ratio Lower Upper

56 100

55 48.6 54.7 82.1#



#16

Acetone

Concen: 7.726 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019321.D

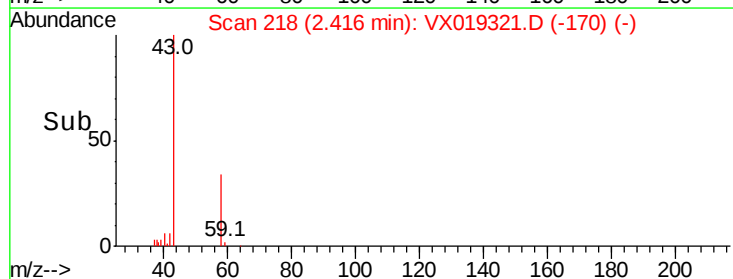
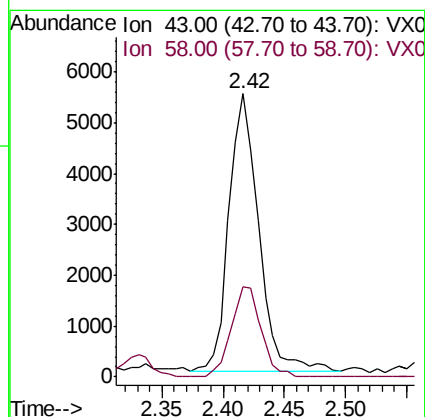
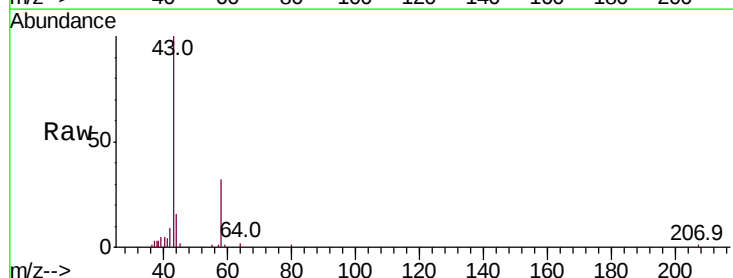
Acq: 05 Nov 2020 17:55

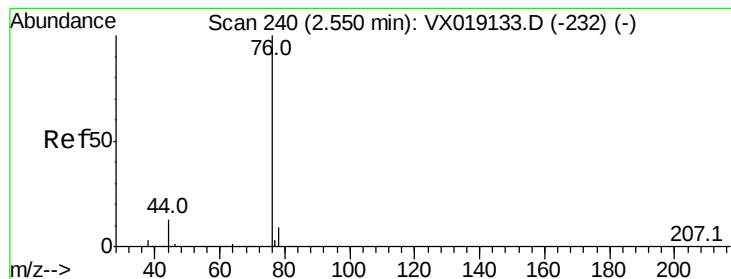
Tgt Ion: 43 Resp: 9166

Ion Ratio Lower Upper

43 100

58 32.5 26.3 39.5





#17

Carbon Disulfide

Concen: 0.794 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019321.D

Acq: 05 Nov 2020 17:55

Instrument :

MSVOA_X

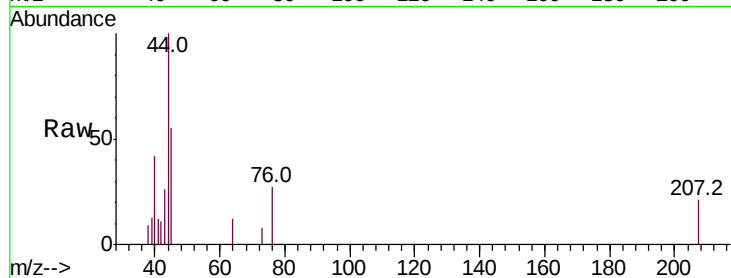
ClientSampleId :

Tot Ion: 76 Resp: 252

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.55

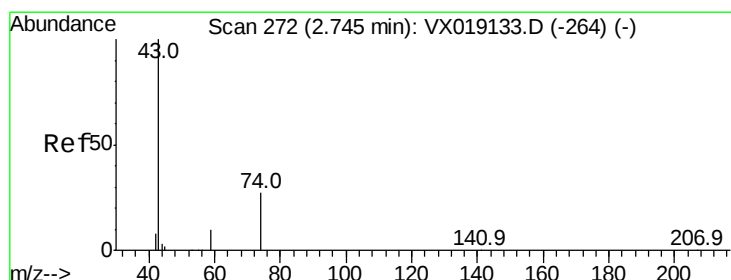
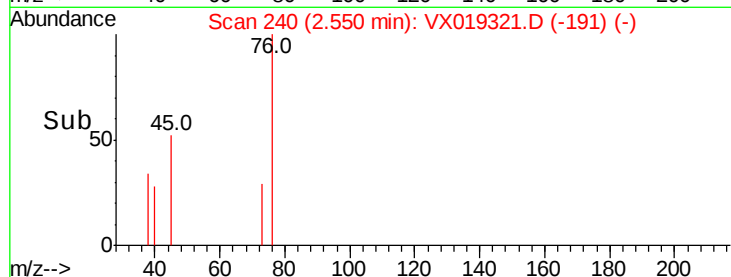
150

100

50

0

Time--> 2.50 2.55 2.60



#18

Methyl Acetate

Concen: 1.095 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX019321.D

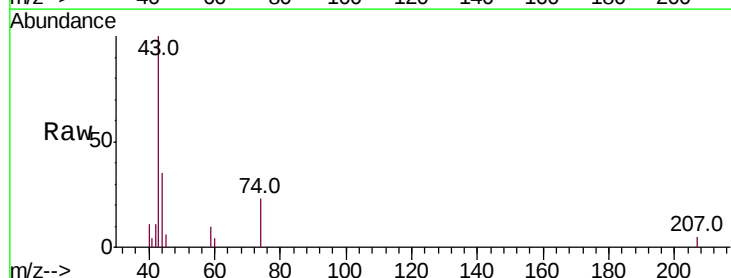
Acq: 05 Nov 2020 17:55

Tgt Ion: 43 Resp: 3159

Ion Ratio Lower Upper

43 100

74 26.7 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2000

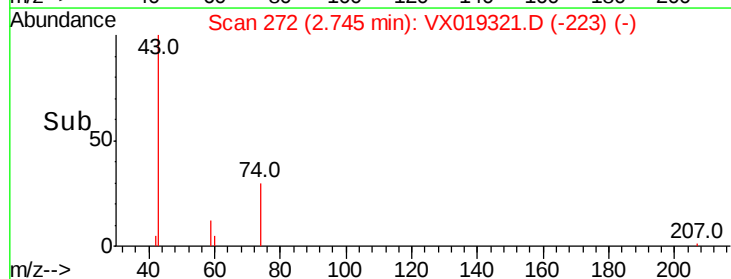
1500

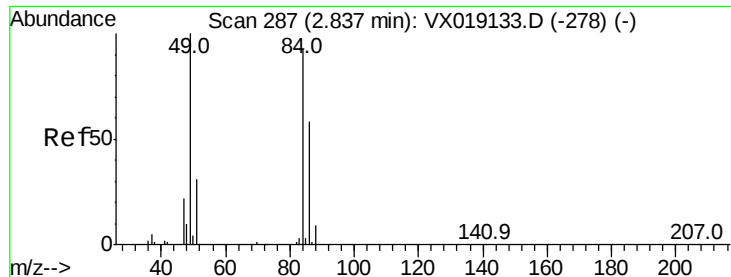
1000

500

0

Time--> 2.70 2.75 2.80 2.85

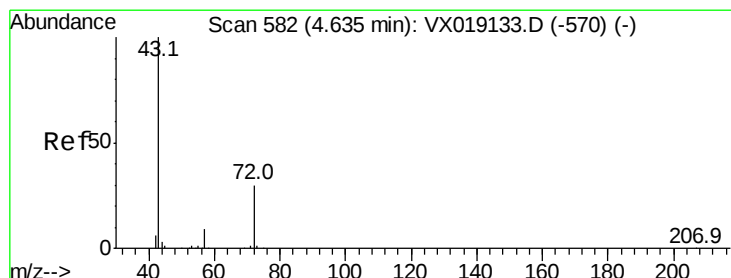
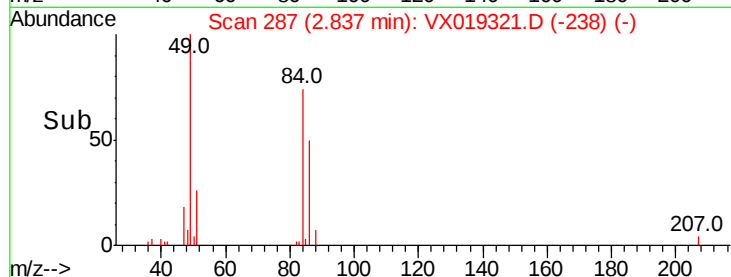
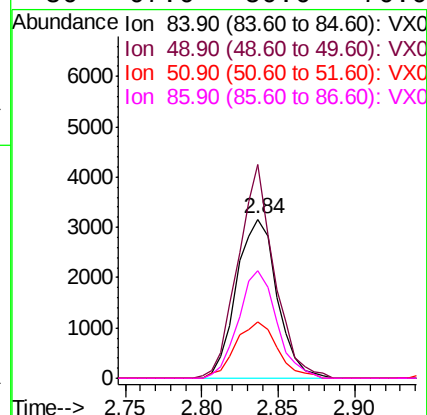
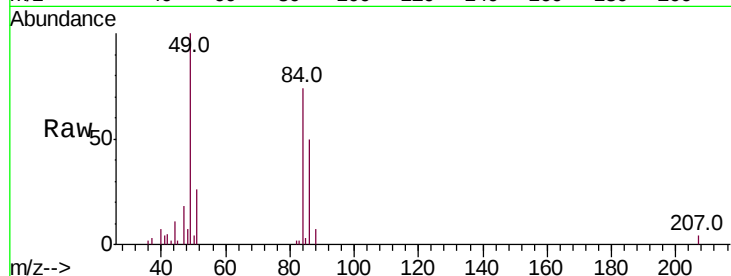




#20
Methvlene Chloride
Concen: 1.961 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX019321.D
Acq: 05 Nov 2020 17:55

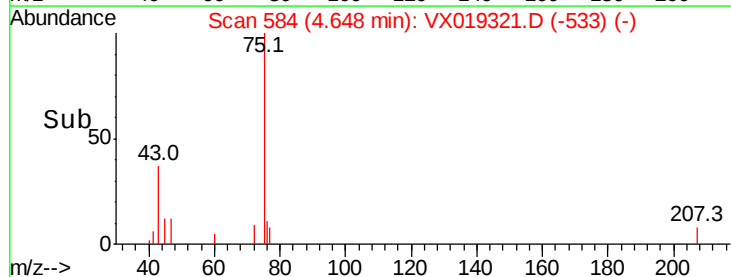
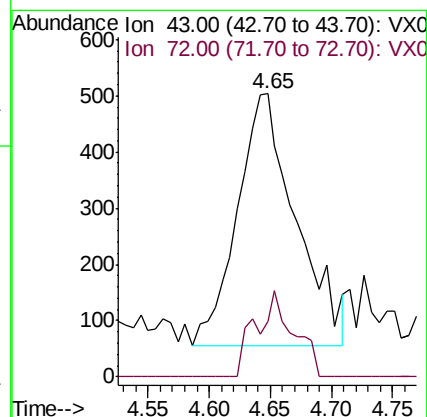
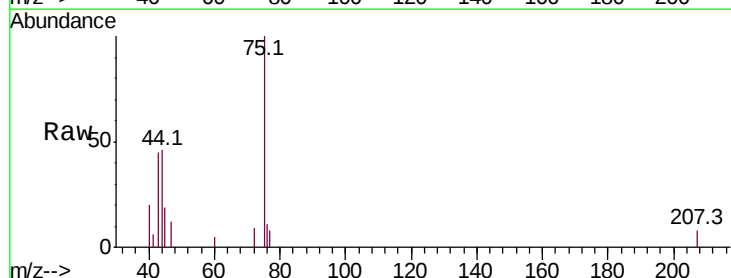
Instrument :
MSVOA_X
ClientSampleId :

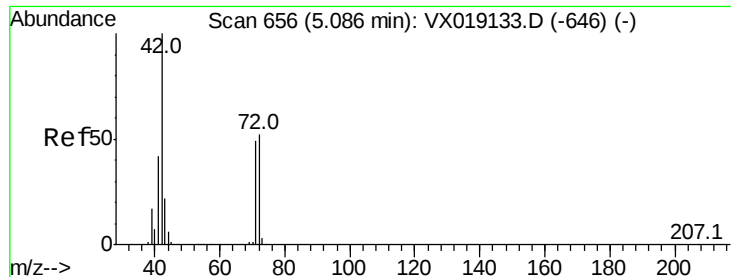
Tot Ion: 84 Resp: 5840
Ion Ratio Lower Upper
84 100
49 134.3 86.8 130.2#
51 35.3 27.3 40.9
86 67.6 50.6 76.0



#25
2-Butanone
Concen: 0.796 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX019321.D
Acq: 05 Nov 2020 17:55

Tgt Ion: 43 Resp: 1489
Ion Ratio Lower Upper
43 100
72 21.9 24.6 36.8#

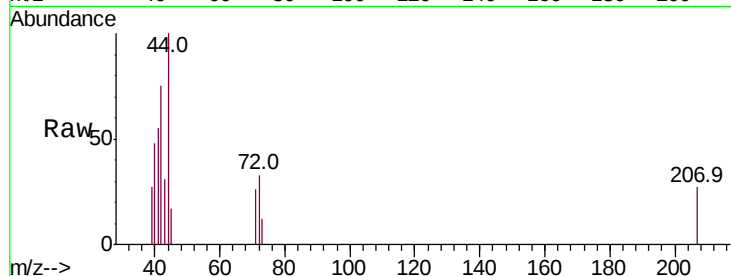




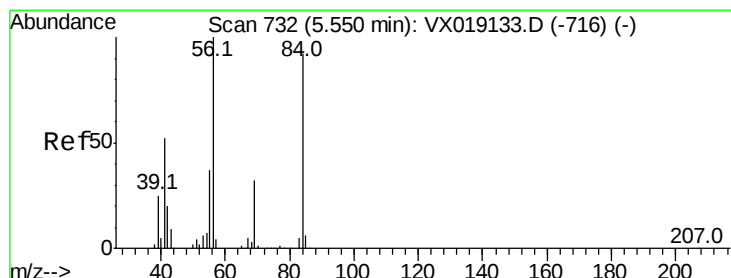
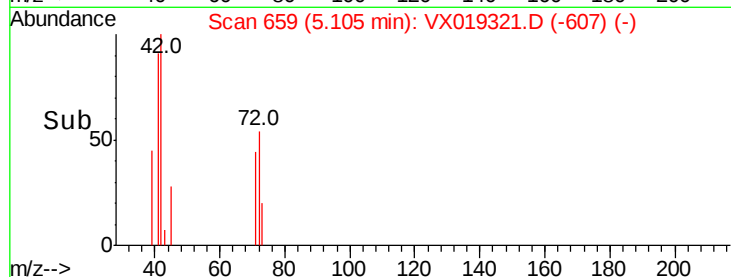
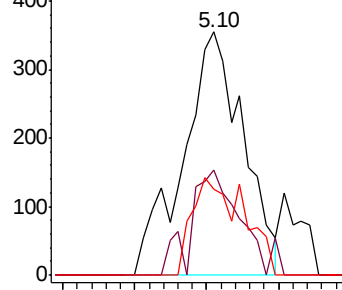
#29
Tetrahydrofuran
Concen: 0.873 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX019321.D
Acq: 05 Nov 2020 17:55

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 42 Resp: 1029
Ion Ratio Lower Upper
42 100
72 36.1 42.6 63.8#
71 34.3 39.7 59.5#

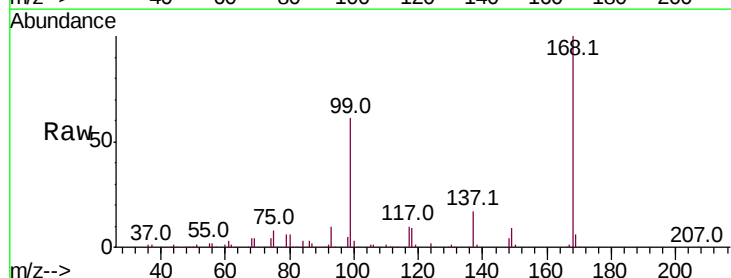


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

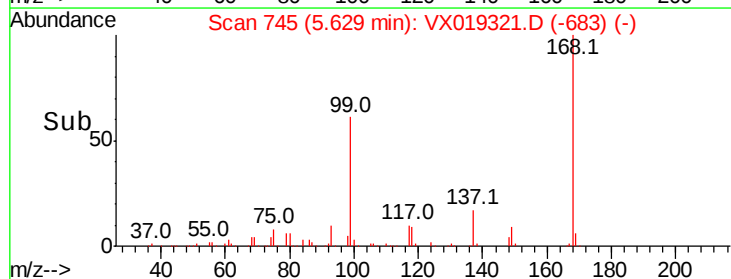
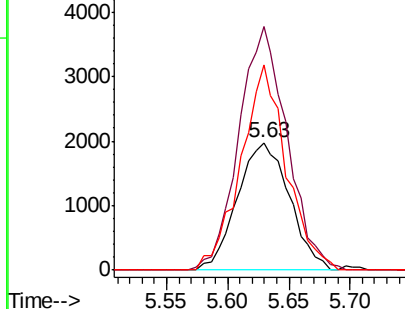


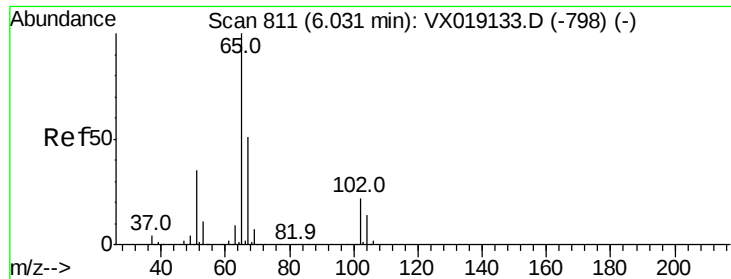
#31
Cyclohexane
Concen: 1.341 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX019321.D
Acq: 05 Nov 2020 17:55

Tgt Ion: 56 Resp: 5830
Ion Ratio Lower Upper
56 100
69 191.2 25.9 38.9#
84 161.4 73.4 110.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 56.585 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019321.D

Acq: 05 Nov 2020 17:55

Instrument :

MSVOA_X

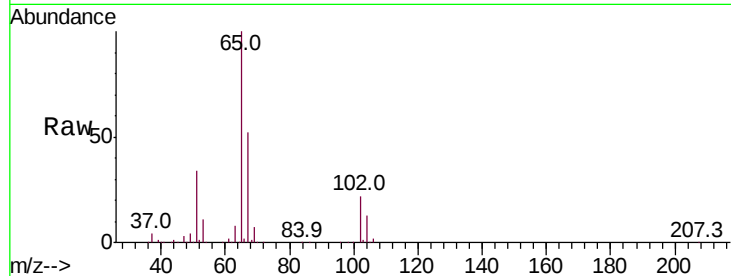
ClientSampleId :

Tot Ion: 65 Resp: 194598

Ion Ratio Lower Upper

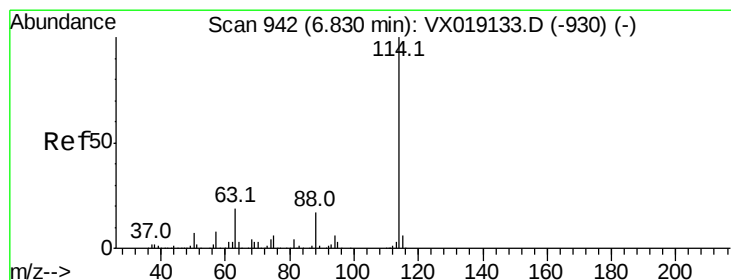
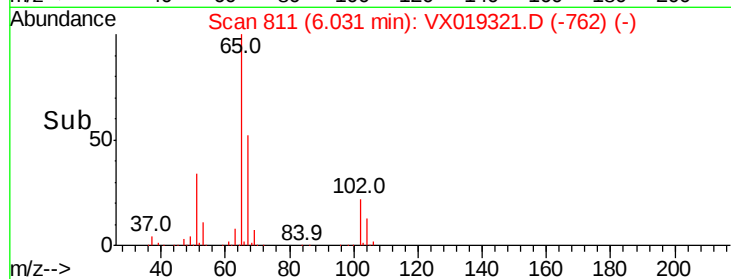
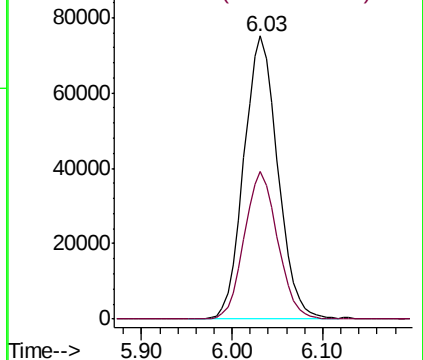
65 100

67 51.5 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019321.D

Acq: 05 Nov 2020 17:55

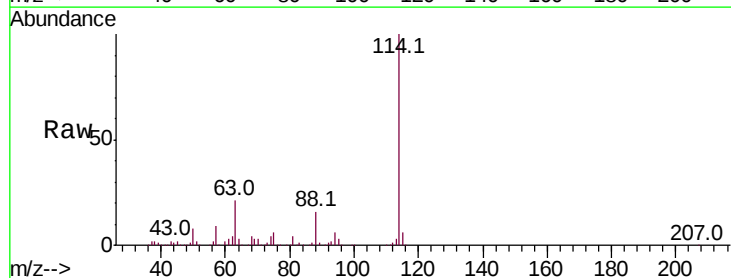
Tgt Ion: 114 Resp: 477535

Ion Ratio Lower Upper

114 100

63 21.0 0.0 38.8

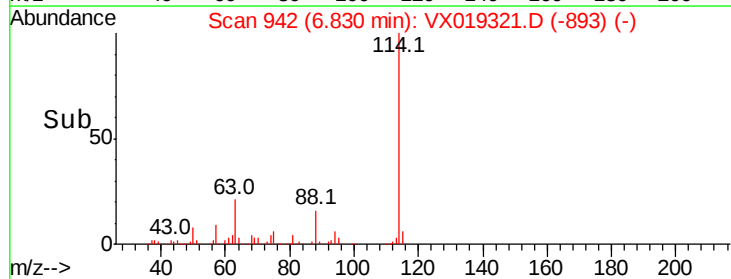
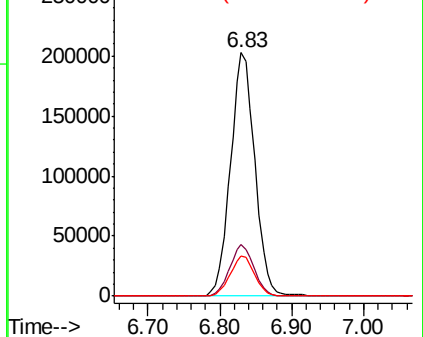
88 16.3 0.0 34.2

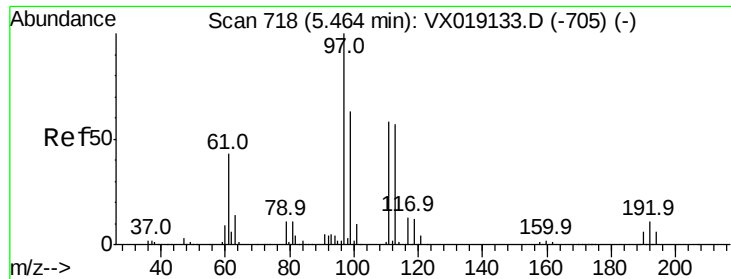


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

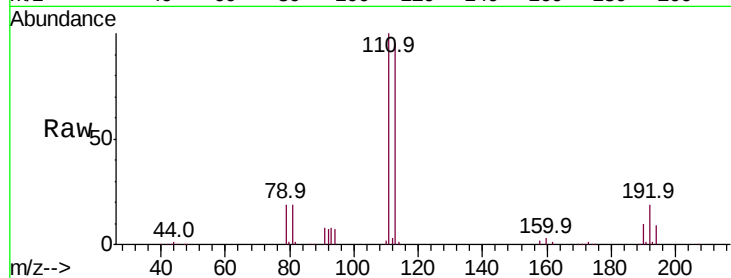




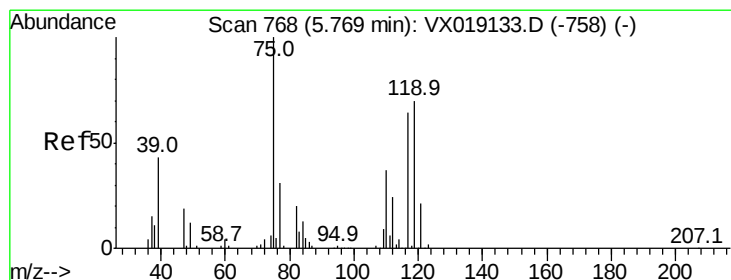
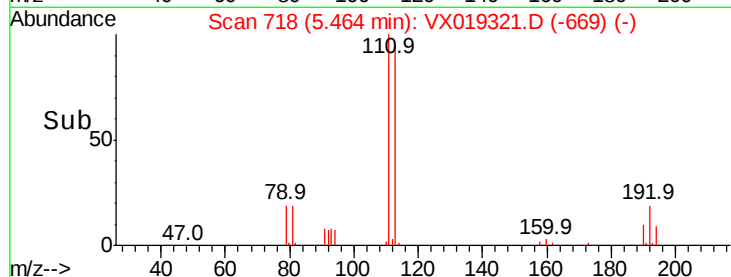
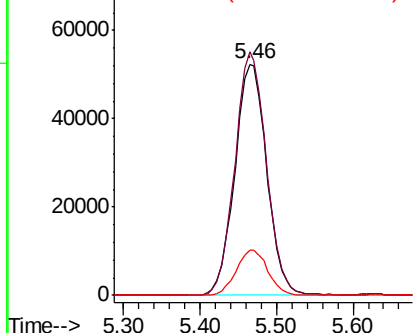
#35
 Dibromofluoromethane
 Concen: 50.714 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX019321.D
 Acq: 05 Nov 2020 17:55

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.3	123.5
192	19.4	16.2	24.2

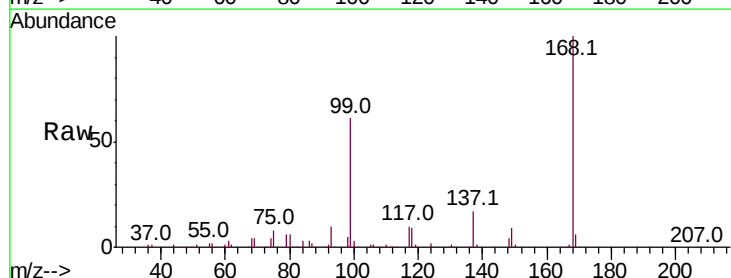


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

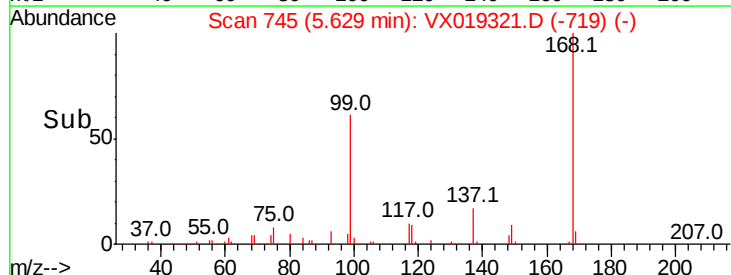
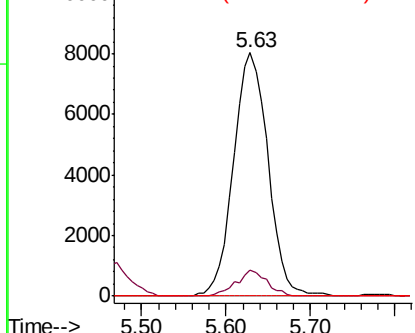


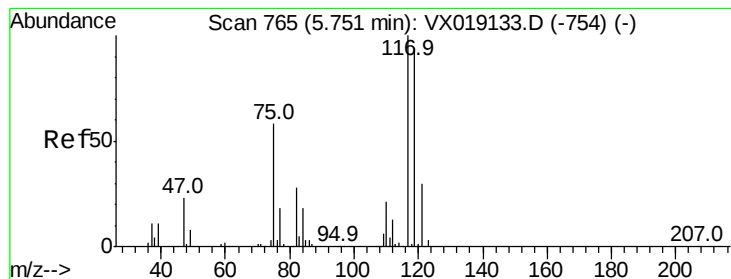
#36
 1,1-Dichloropropene
 Concen: 5.051 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX019321.D
 Acq: 05 Nov 2020 17:55

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.3	54.9#
77	0.0	24.9	37.3#



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: 6.264 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019321.D

Acq: 05 Nov 2020 17:55

Instrument :

MSVOA_X

ClientSampleId :

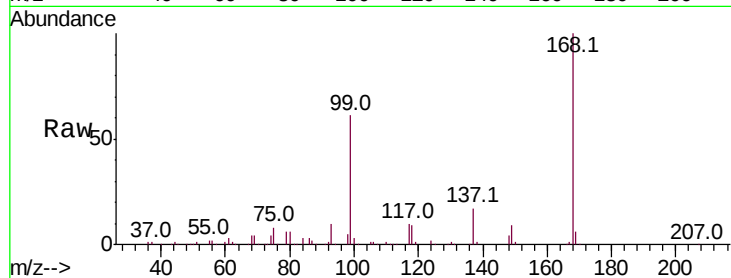
Tot Ion:117 Resp: 28154

Ion Ratio Lower Upper

117 100

119 6.1 75.0 112.6#

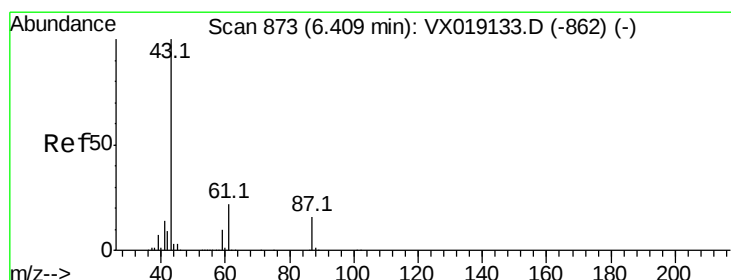
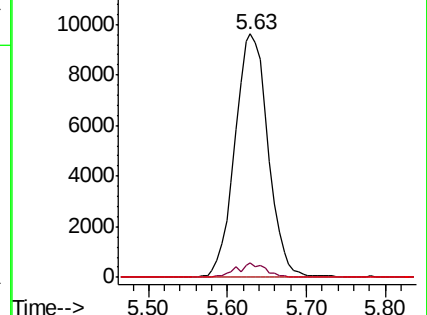
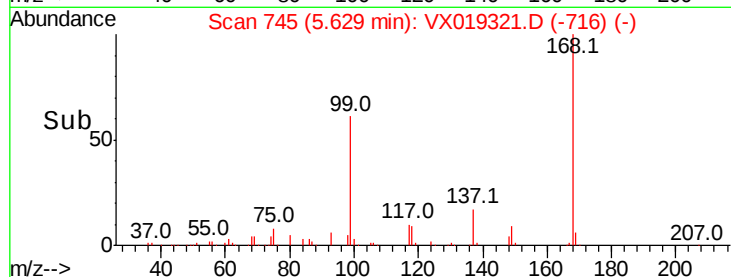
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 11.310 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.00 min

Lab File: VX019321.D

Acq: 05 Nov 2020 17:55

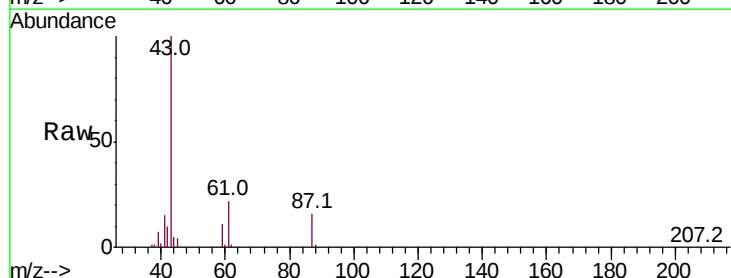
Tgt Ion: 43 Resp: 77537

Ion Ratio Lower Upper

43 100

61 21.5 17.8 26.6

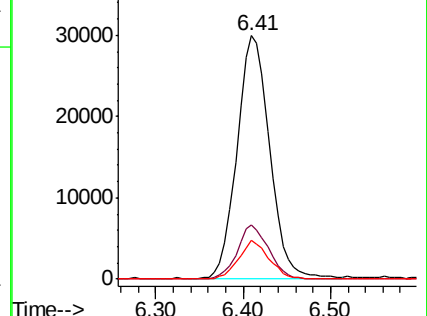
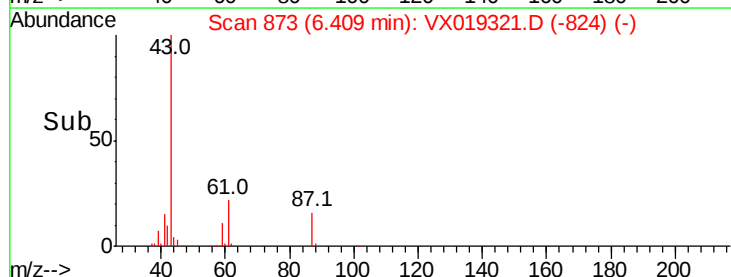
87 14.8 12.6 19.0

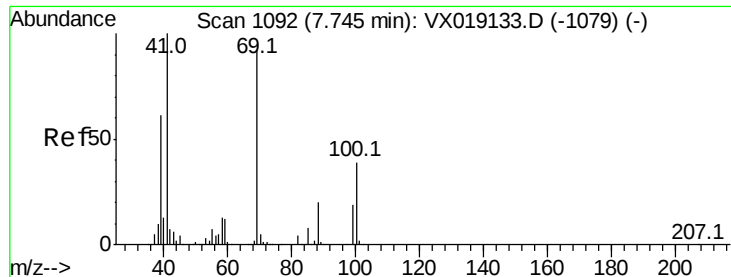


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

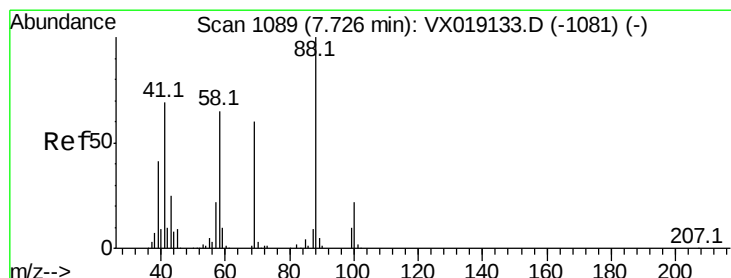
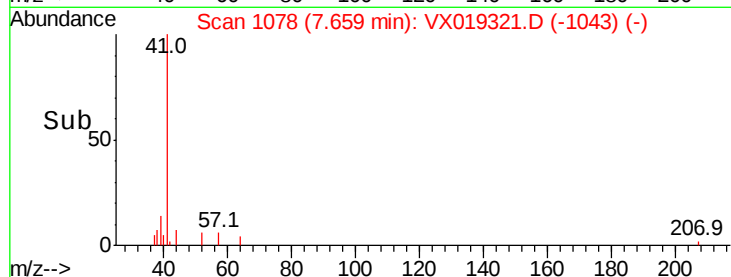
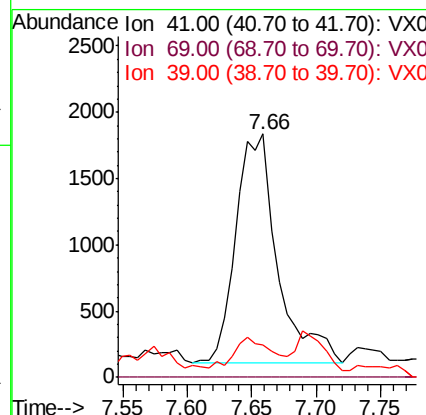
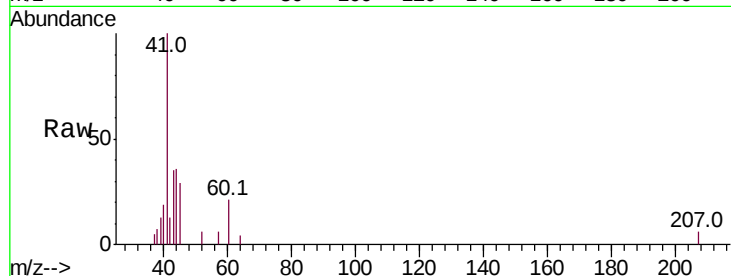




#48
Methvl methacrylate
Concen: 1.172 ug/l
RT: 7.66 min Scan# 1078
Delta R.T. -0.09 min
Lab File: VX019321.D
Acq: 05 Nov 2020 17:55

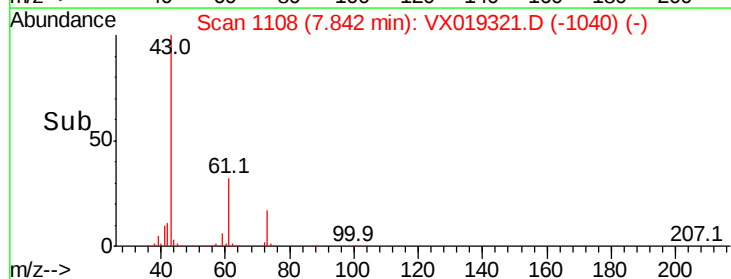
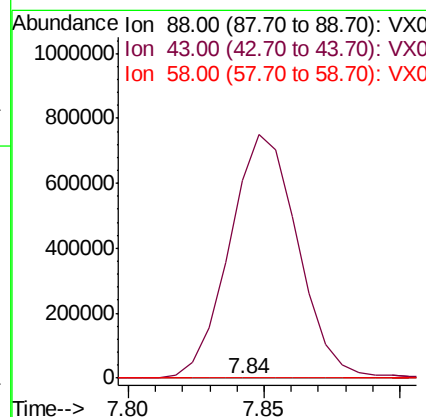
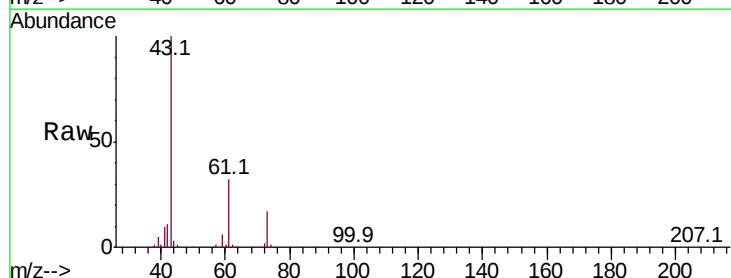
Instrument :
MSVOA_X
ClientSampleId :

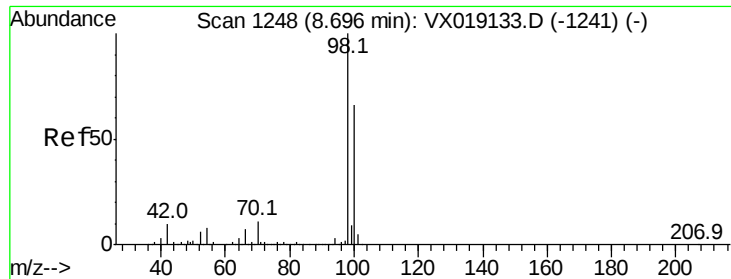
Tot Ion: 41 Resp: 3867
Ion Ratio Lower Upper
41 100
69 0.0 75.5 113.3#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 3.325 ug/l
RT: 7.84 min Scan# 1108
Delta R.T. 0.12 min
Lab File: VX019321.D
Acq: 05 Nov 2020 17:55

Tgt Ion: 88 Resp: 244
Ion Ratio Lower Upper
88 100
43 538246.7 23.0 34.6#
58 2518.4 52.2 78.2#

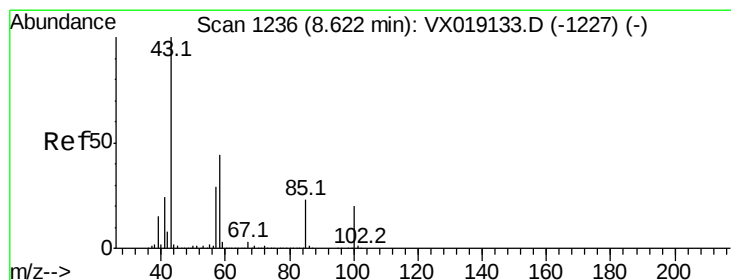
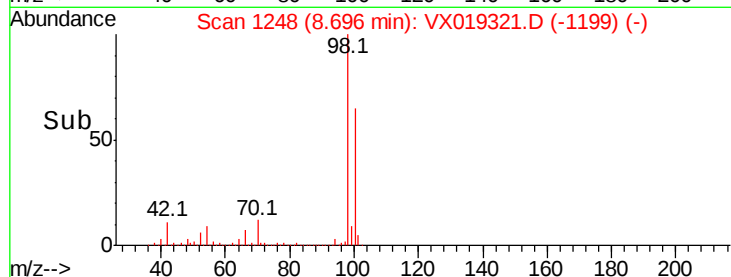
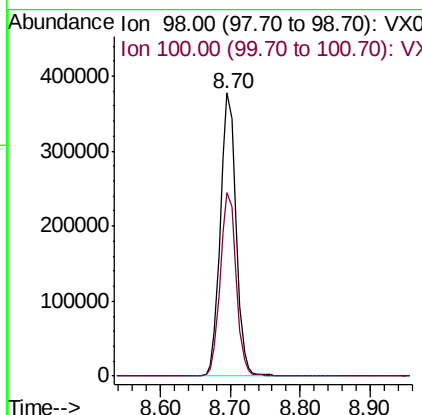
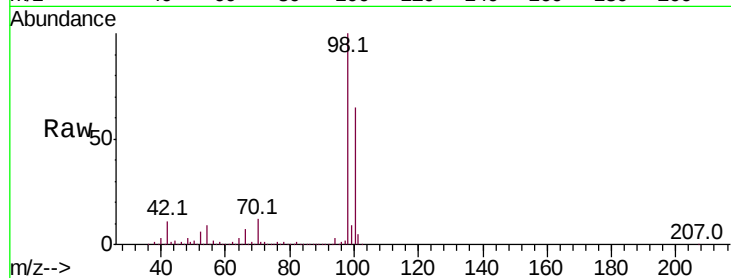




#50
Toluene-d8
Concen: 52.343 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019321.D
Acq: 05 Nov 2020 17:55

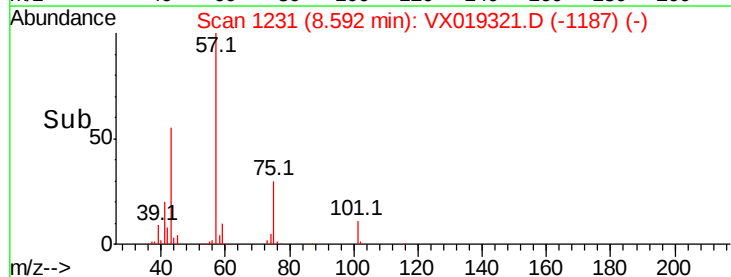
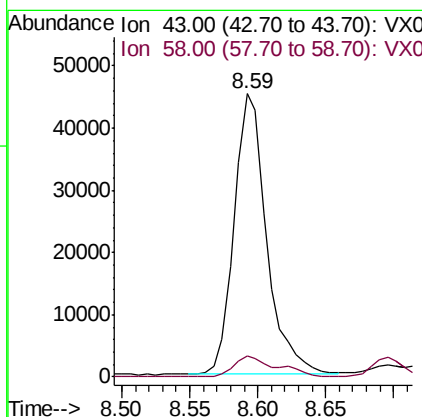
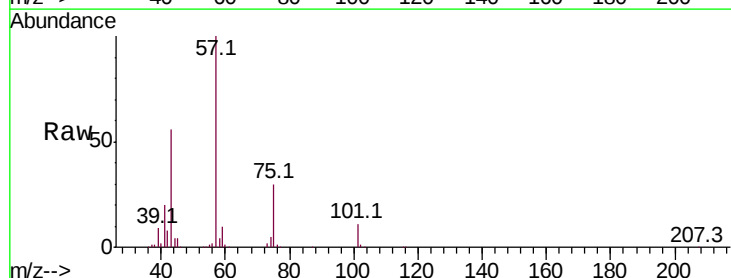
Instrument :
MSVOA_X
ClientSampleId :

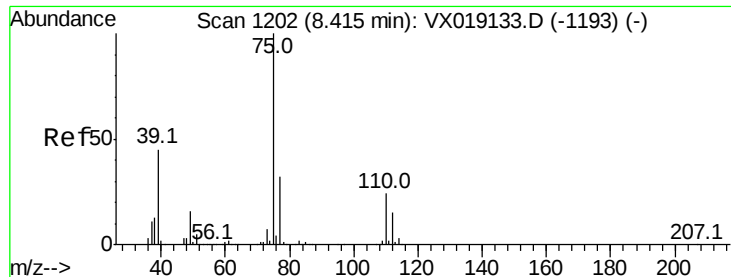
Tot Ion: 98 Resp: 591858
Ion Ratio Lower Upper
98 100
100 65.4 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 19.076 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX019321.D
Acq: 05 Nov 2020 17:55

Tgt Ion: 43 Resp: 75162
Ion Ratio Lower Upper
43 100
58 9.9 35.0 52.4#



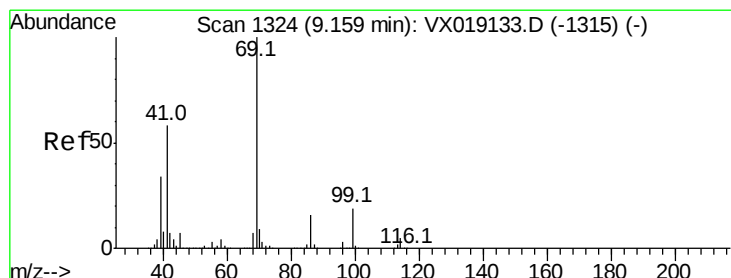
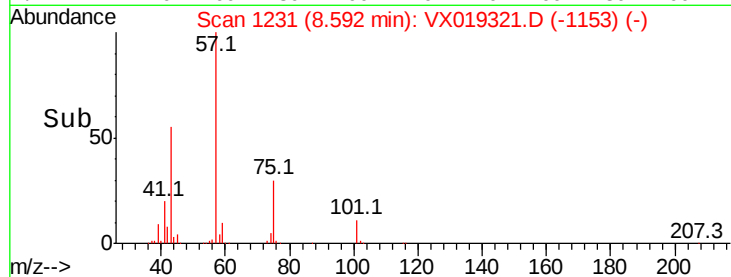
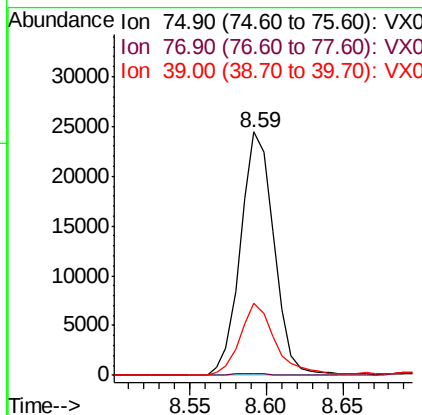
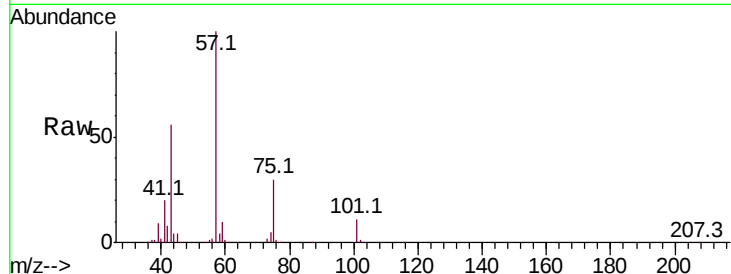


#54

cis-1,3-Dichloropropene
 Concen: 6.913 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019321.D
 Acq: 05 Nov 2020 17:55

Instrument :
 MSVOA_X
 ClientSampled :

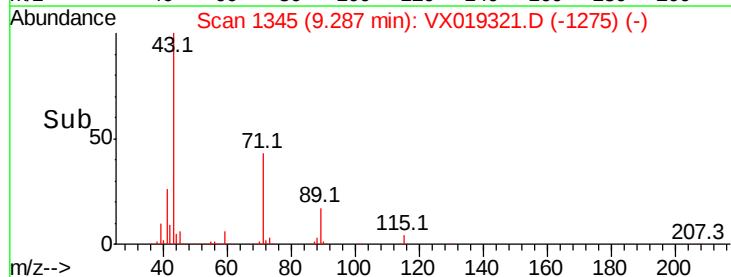
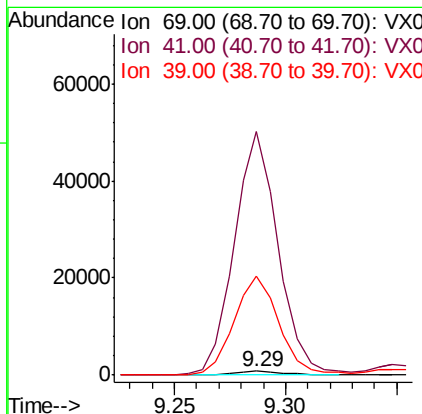
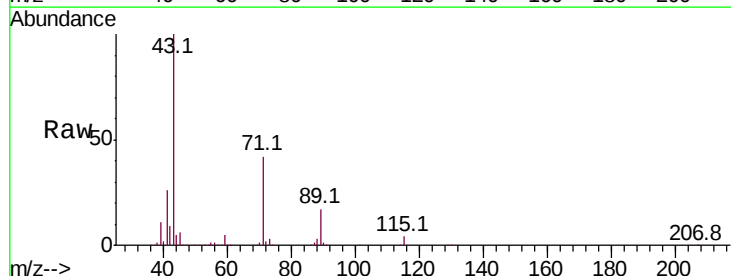
Tot Ion: 75 Resp: 37063
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.5 38.3#
 39 29.4 36.2 54.2#

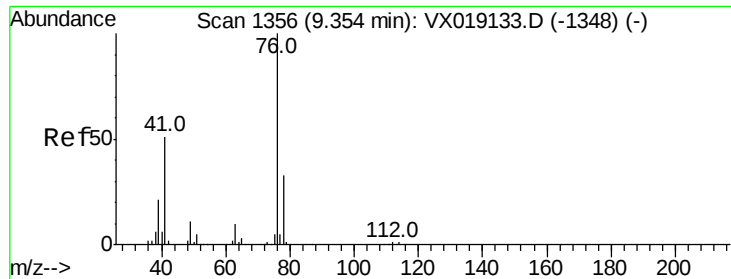


#56

Ethyl methacrylate
 Concen: 0.273 ug/l
 RT: 9.29 min Scan# 1345
 Delta R.T. 0.13 min
 Lab File: VX019321.D
 Acq: 05 Nov 2020 17:55

Tgt Ion: 69 Resp: 1312
 Ion Ratio Lower Upper
 69 100
 41 5257.2 46.5 69.7#
 39 2183.6 27.6 41.4#





#57

1,3-Dichloropropane

Concen: 1.212 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX019321.D

Acq: 05 Nov 2020 17:55

Instrument :

MSVOA_X

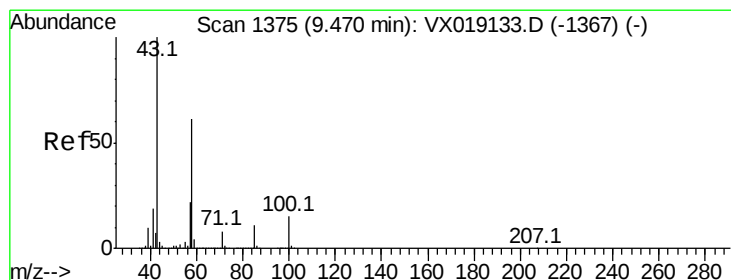
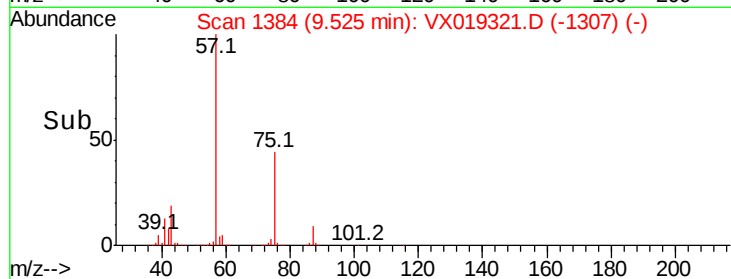
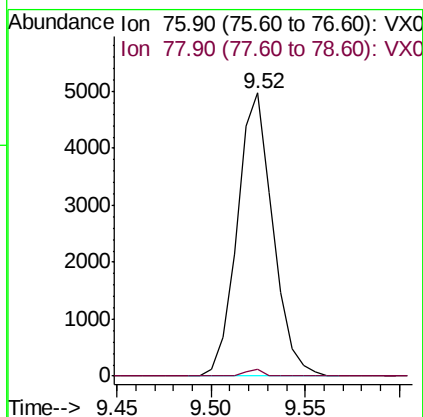
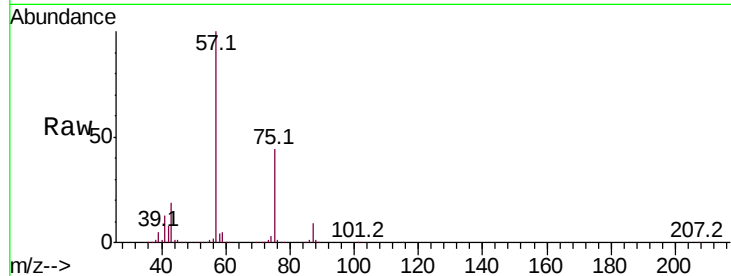
ClientSampled :

Tot Ion: 76 Resp: 6500

Ion Ratio Lower Upper

76 100

78 1.0 25.9 38.9#



#59

2-Hexanone

Concen: 24.339 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX019321.D

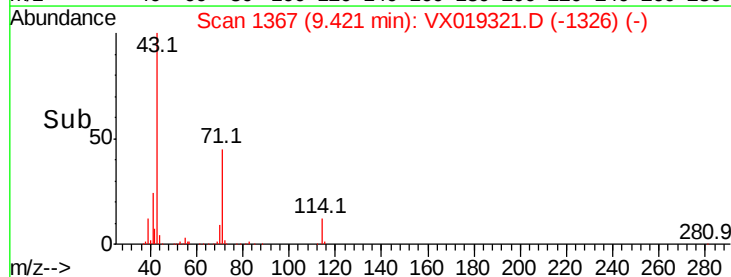
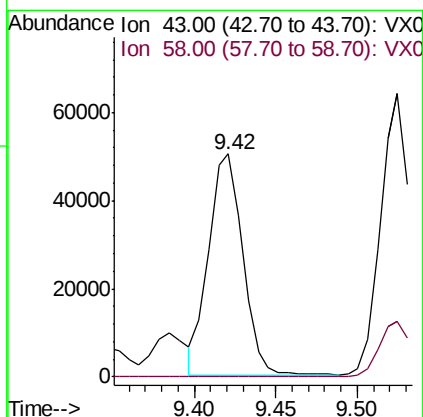
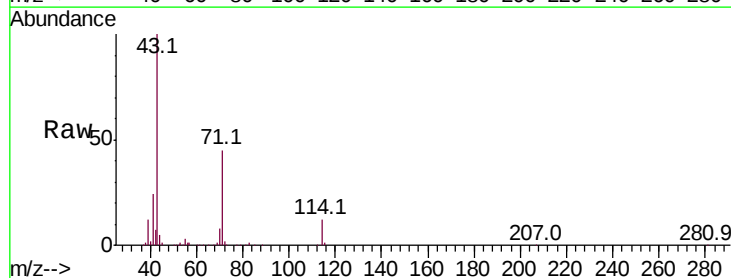
Acq: 05 Nov 2020 17:55

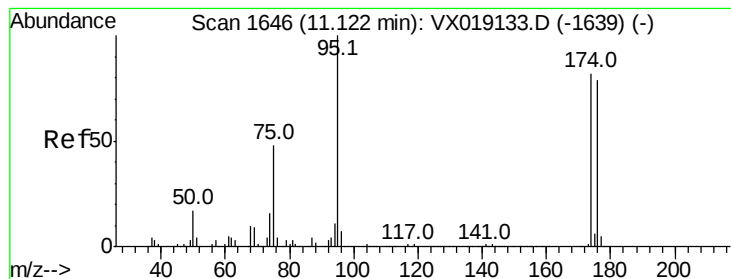
Tgt Ion: 43 Resp: 73002

Ion Ratio Lower Upper

43 100

58 0.0 30.5 91.5#





#62

4-Bromofluorobenzene

Concen: 52.316 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019321.D

Acq: 05 Nov 2020 17:55

Instrument :

MSVOA_X

ClientSampleId :

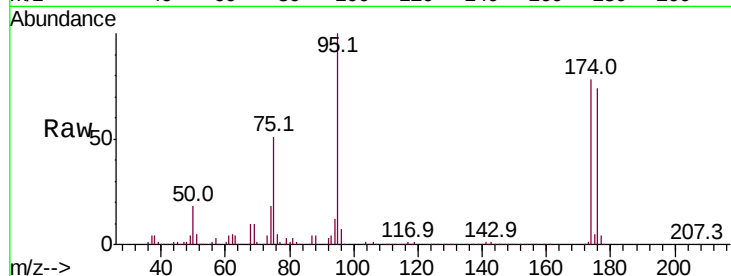
Tot Ion: 95 Resp: 224027

Ion Ratio Lower Upper

95 100

174 74.2 0.0 156.0

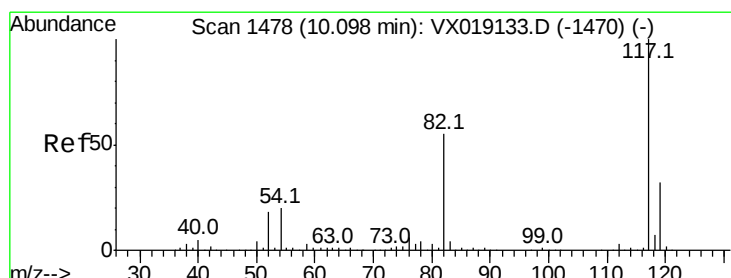
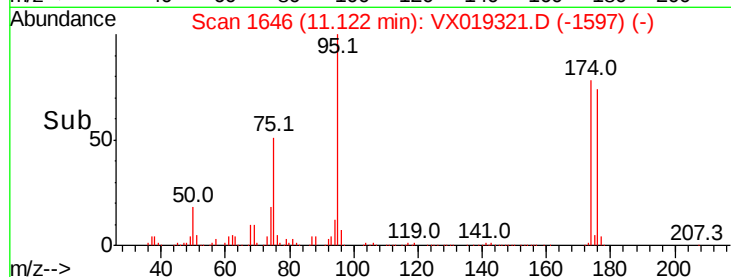
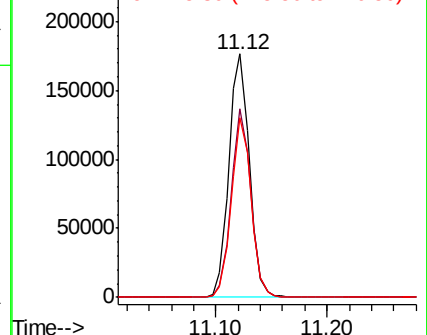
176 71.5 0.0 149.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019321.D

Acq: 05 Nov 2020 17:55

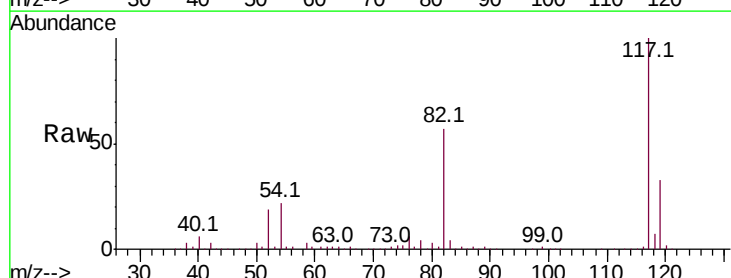
Tgt Ion: 117 Resp: 461669

Ion Ratio Lower Upper

117 100

82 56.5 43.6 65.4

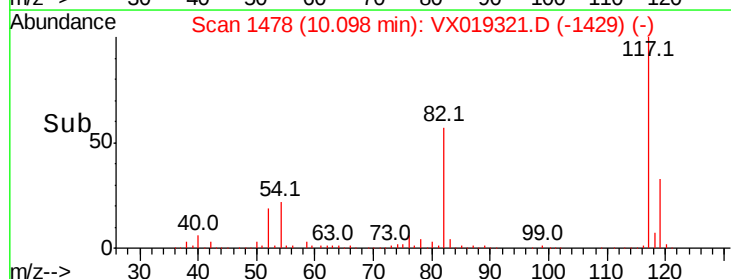
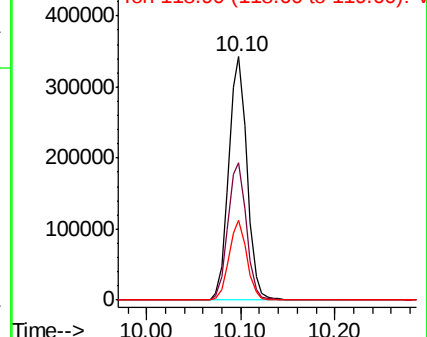
119 32.8 25.5 38.3

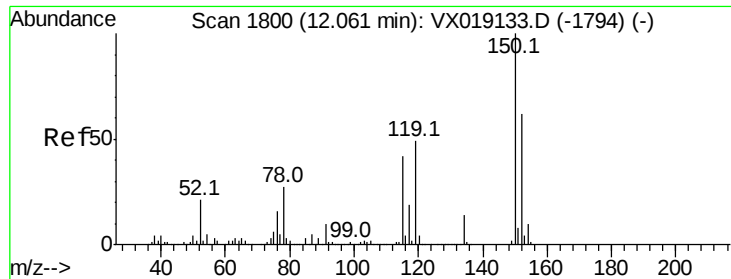


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019321.D

Acq: 05 Nov 2020 17:55

Instrument :

MSVOA_X

ClientSampleId :

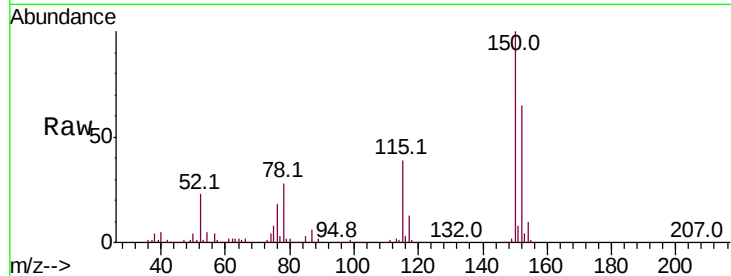
Tot Ion:152 Resp: 219239

Ion Ratio Lower Upper

152 100

115 61.9 41.9 125.7

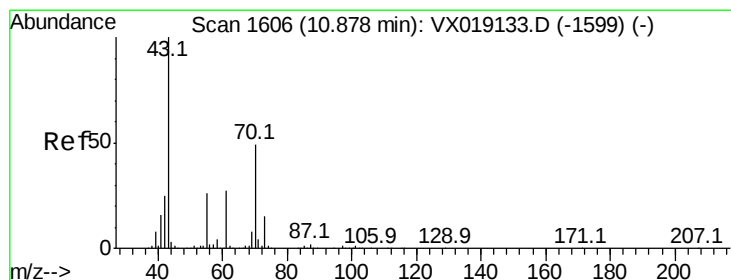
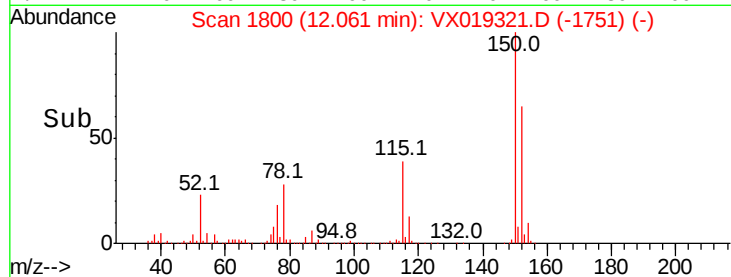
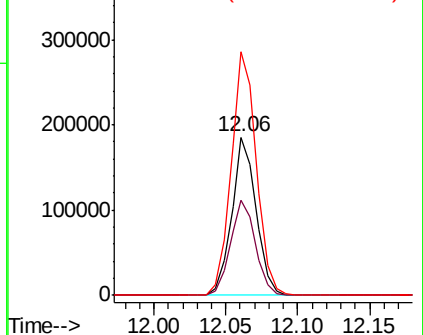
150 159.0 0.0 347.8



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: 0.589 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019321.D

Acq: 05 Nov 2020 17:55

Tgt Ion: 43 Resp: 3342

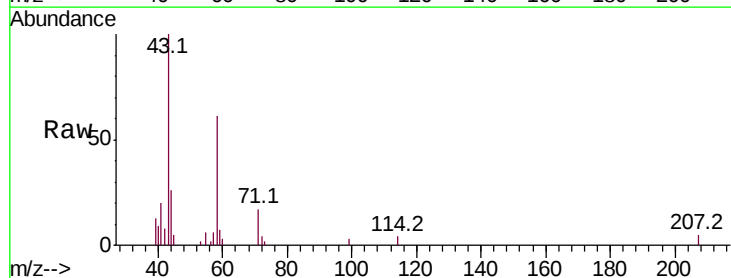
Ion Ratio Lower Upper

43 100

70 0.0 39.6 59.4#

55 9.6 20.7 31.1#

61 0.0 21.9 32.9#

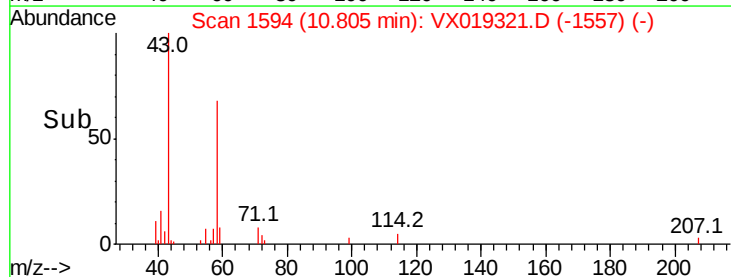
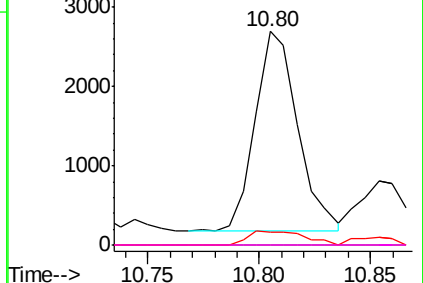


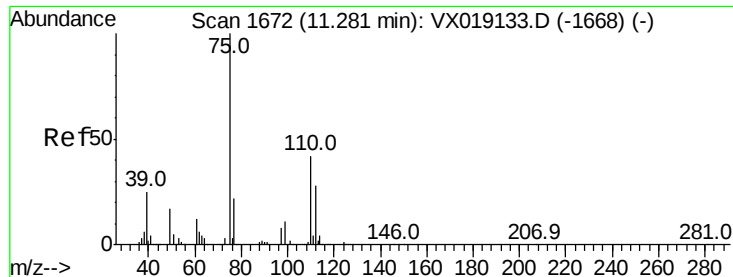
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 25.762 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019321.D

Acq: 05 Nov 2020 17:55

Instrument :

MSVOA_X

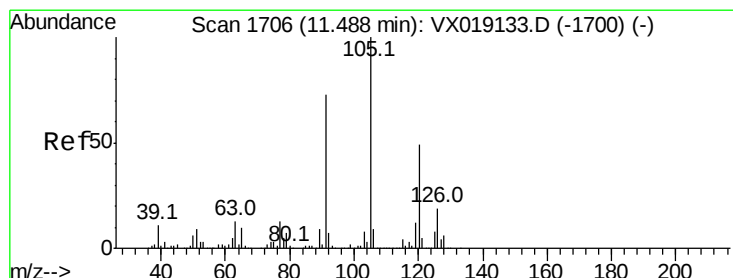
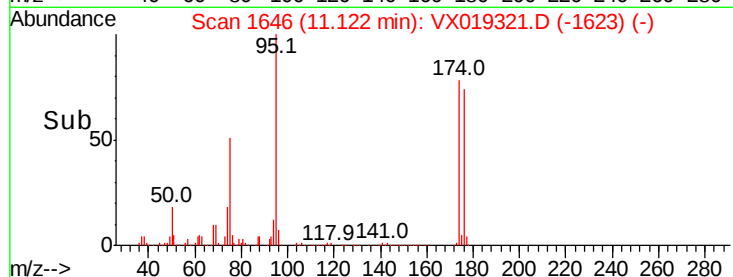
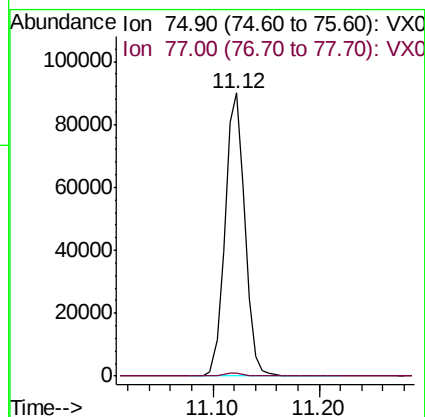
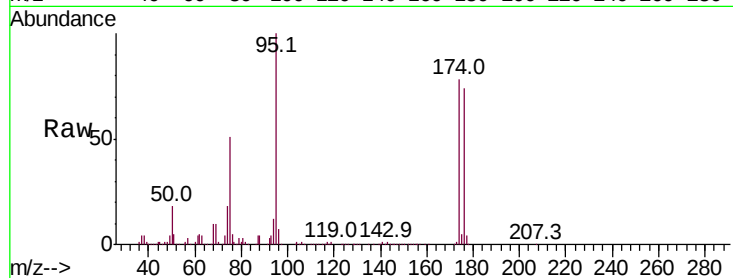
ClientSampled :

Tot Ion: 75 Resp: 116619

Ion Ratio Lower Upper

75 100

77 1.2 20.3 60.9#



#80

1,3,5-Trimethylbenzene

Concen: 0.895 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX019321.D

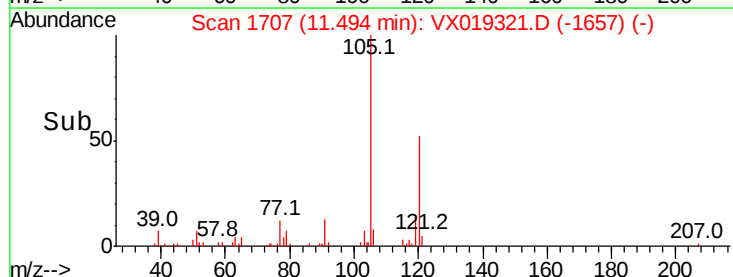
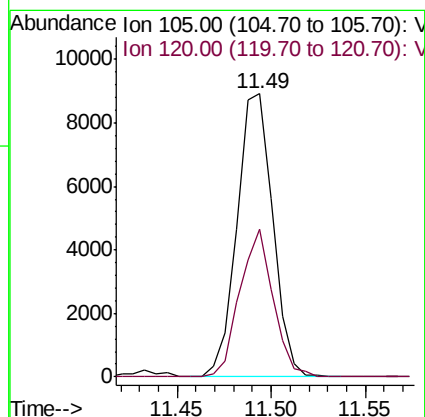
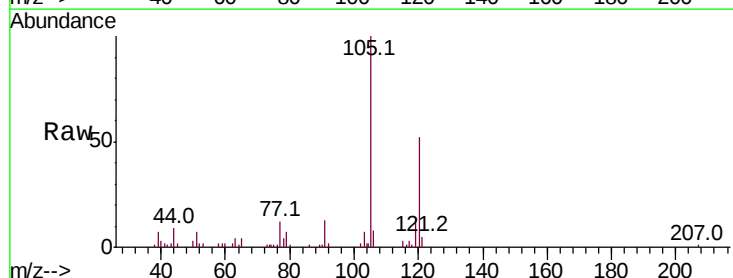
Acq: 05 Nov 2020 17:55

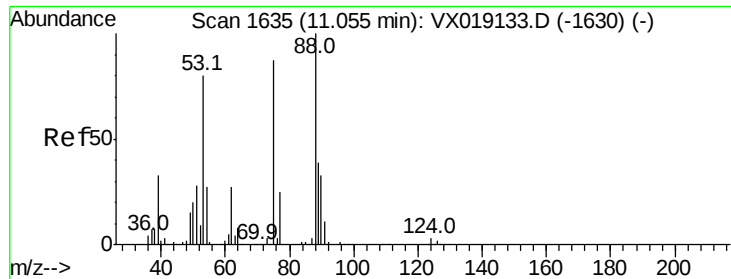
Tgt Ion: 105 Resp: 11736

Ion Ratio Lower Upper

105 100

120 48.7 24.3 72.8





#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.831 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019321.D
 Acq: 05 Nov 2020 17:55

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 116619
 Ion Ratio Lower Upper
 75 100
 53 0.1 73.3 109.9#
 89 0.0 38.2 57.2#

