

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121420\
 Data File : VX019988.D
 Acq On : 14 Dec 2020 15:52
 Operator : JC/MD
 Sample : L5065-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 JBD-WC-S-SB-0203-0-15

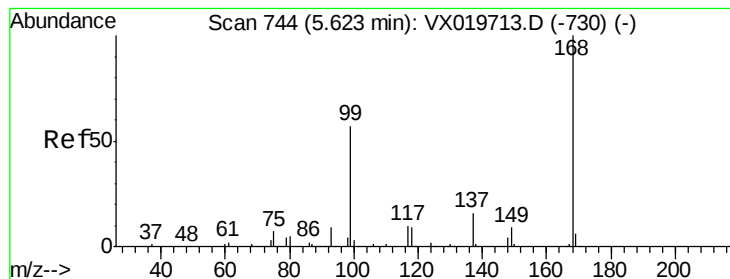
Quant Time: Dec 15 00:23:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	311316	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	516224	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	486070	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	210554	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	199271	48.70	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.40%	
35) Dibromofluoromethane		5.46	113	162537	48.72	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.44%	
50) Toluene-d8		8.70	98	644657	50.61	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	101.22%	
62) 4-Bromofluorobenzene		11.12	95	227675	46.96	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	93.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	442	0.377	ug/l #	69
6) Chloroethane	1.65	64	425	0.200	ug/l #	43
11) Tert butyl alcohol	3.00	59	13785	13.920	ug/l #	79
13) Acrolein	2.29	56	188	0.416	ug/l #	27
16) Acetone	2.42	43	15471	10.060	ug/l	100
18) Methyl Acetate	2.75	43	1602	0.426	ug/l	90
20) Methylene Chloride	2.83	84	12861	2.306	ug/l	98
25) 2-Butanone	4.64	43	4290	1.815	ug/l	92
27) cis-1,2-Dichloroethene	4.55	96	911	0.234	ug/l	95
29) Tetrahydrofuran	5.09	42	1935	1.271	ug/l #	87
31) Cyclohexane	5.62	56	6047	1.188	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24007	5.146	ug/l #	48
37) Ethyl Acetate	4.64	43	4290	0.911	ug/l #	67
38) Carbon Tetrachloride	5.62	117	30743	6.730	ug/l #	17
43) Isopropyl Acetate	6.41	43	24487	3.198	ug/l	99
48) Methyl methacrylate	7.65	41	6869	1.824	ug/l #	10
49) 1,4-Dioxane	7.85	88	222	2.433	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	78717	16.838	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	39085	6.793	ug/l #	61
57) 1,3-Dichloropropane	9.52	76	22586	3.683	ug/l #	43
59) 2-Hexanone	9.52	43	274745	75.818	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	109489	23.185	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	109489	67.024	ug/l #	12

(#) = 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. 0.01 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

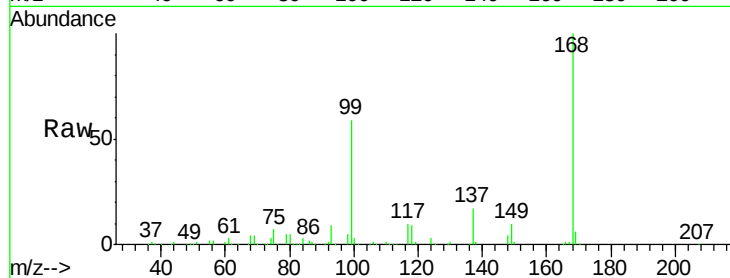
JBD-WC-S-SB-0203-0-15

Tgt Ion: 168 Resp: 311316

Ion Ratio Lower Upper

168 100

99 58.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

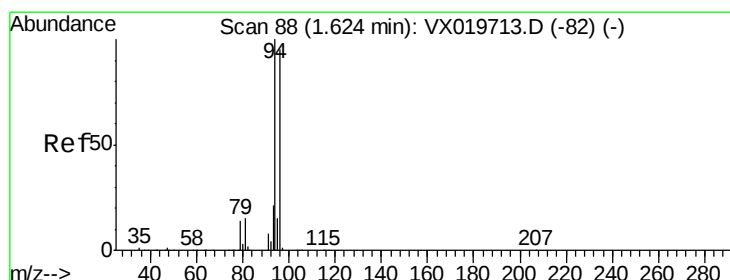
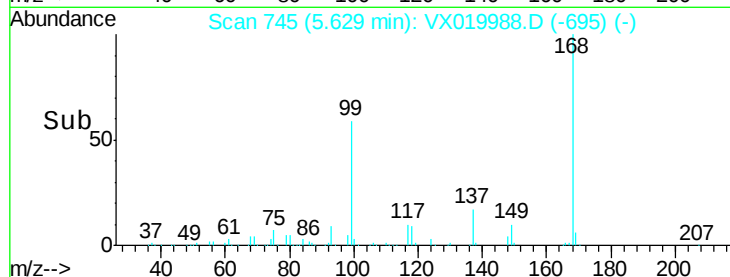
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.377 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019988.D

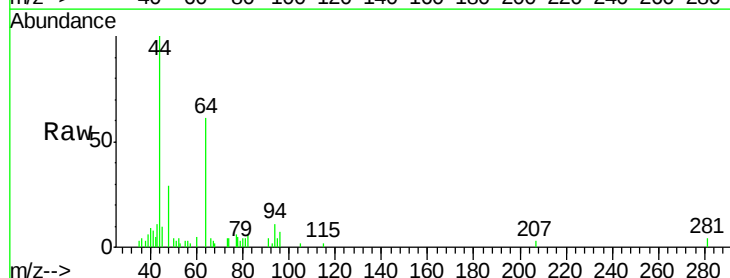
Acq: 14 Dec 2020 15:52

Tgt Ion: 94 Resp: 442

Ion Ratio Lower Upper

94 100

96 64.9 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

250

200

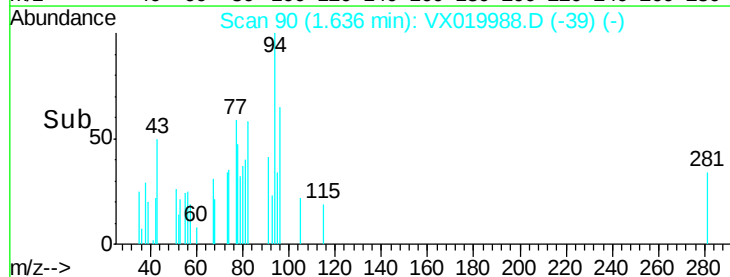
150

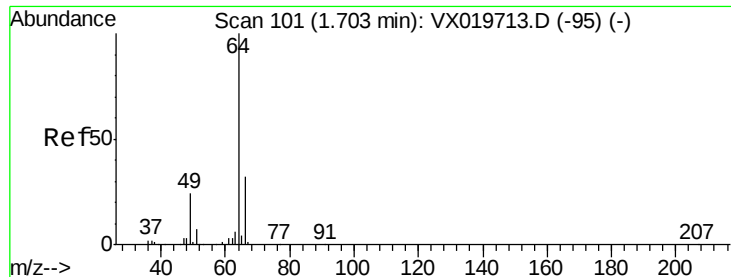
100

50

0

Time-->





#6

Chloroethane

Concen: 0.200 ug/l

RT: 1.65 min Scan# 93

Delta R.T. -0.05 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

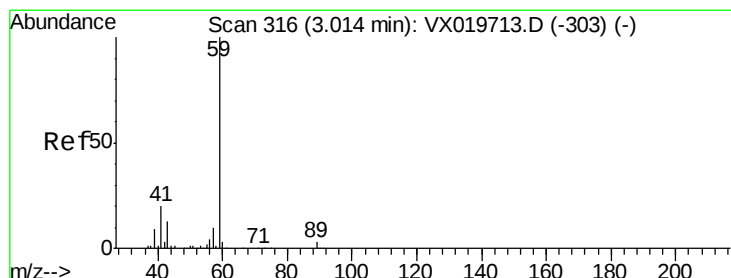
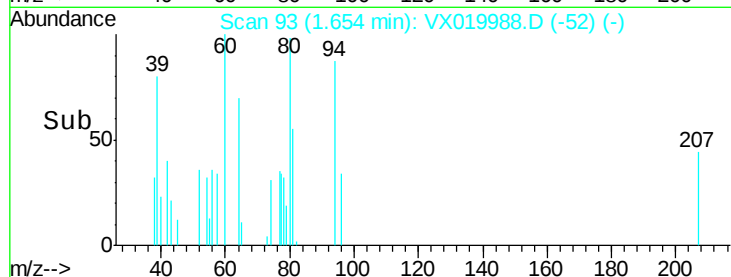
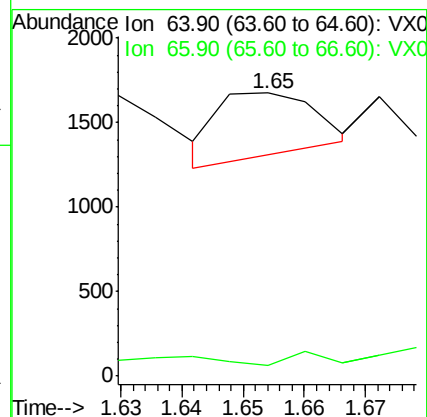
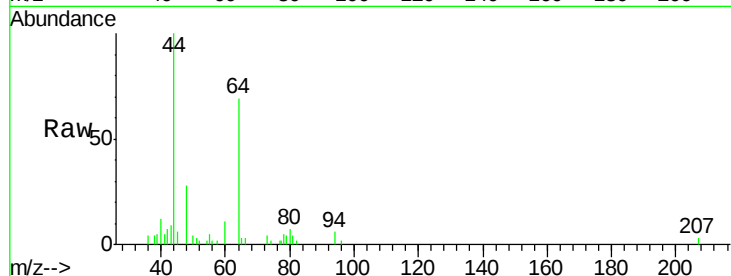
JBD-WC-S-SB-0203-0-15

Tgt Ion: 64 Resp: 425

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



#11

Tert butyl alcohol

Concen: 13.920 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019988.D

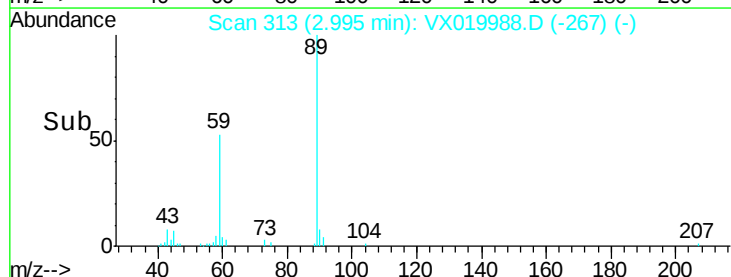
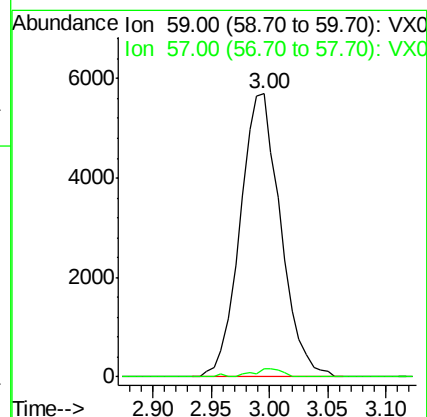
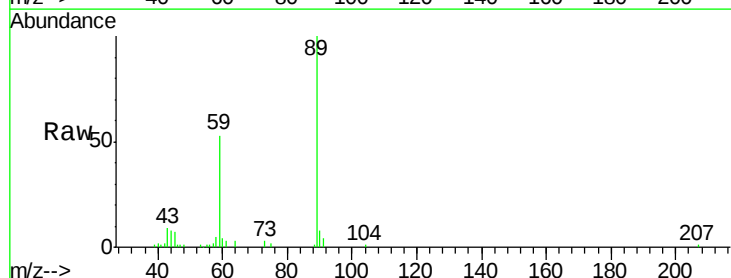
Acq: 14 Dec 2020 15:52

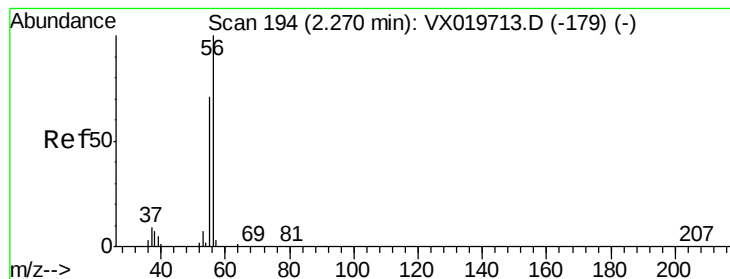
Tgt Ion: 59 Resp: 13785

Ion Ratio Lower Upper

59 100

57 2.0 7.8 11.8#





#13

Acrolein

Concen: 0.416 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.02 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

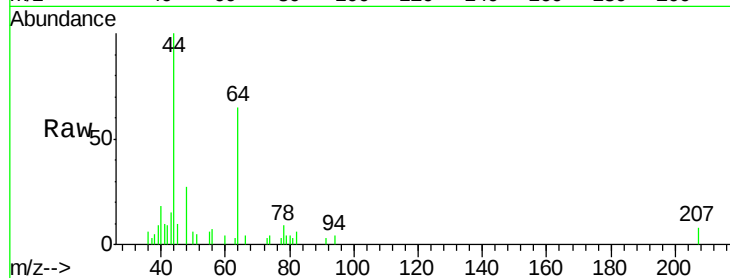
JBD-WC-S-SB-0203-0-15

Tgt Ion: 56 Resp: 188

Ion Ratio Lower Upper

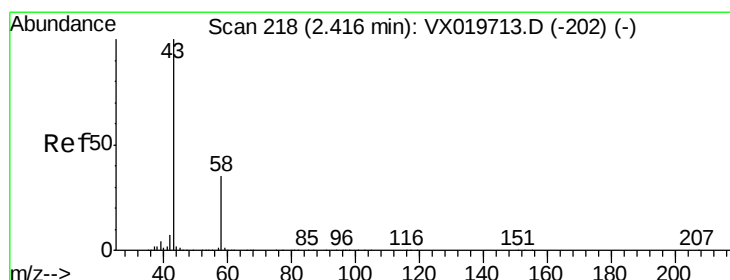
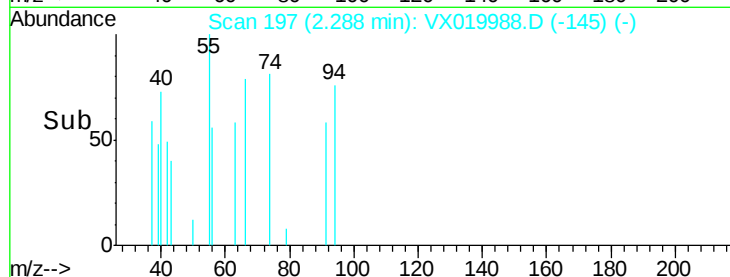
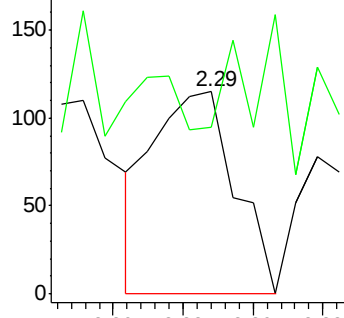
56 100

55 10.1 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 10.060 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019988.D

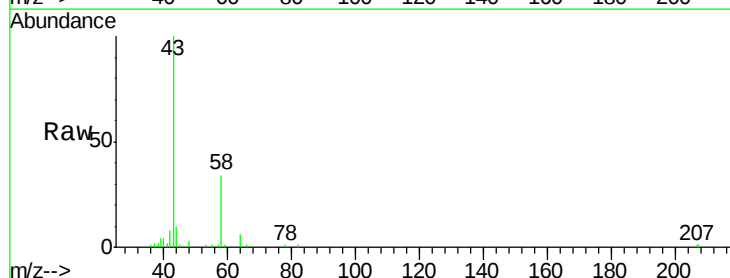
Acq: 14 Dec 2020 15:52

Tgt Ion: 43 Resp: 15471

Ion Ratio Lower Upper

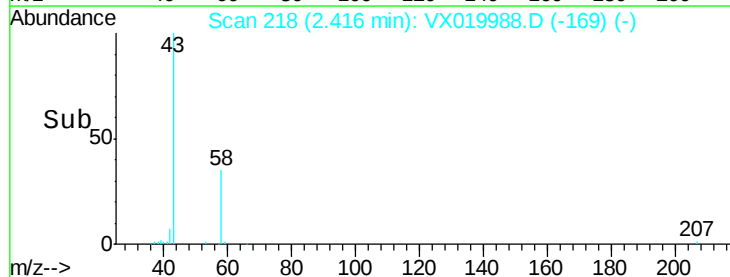
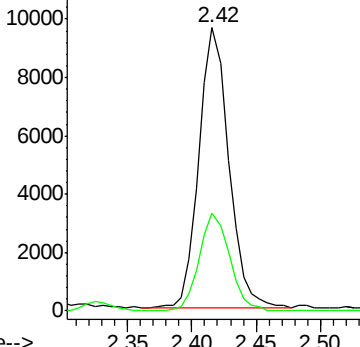
43 100

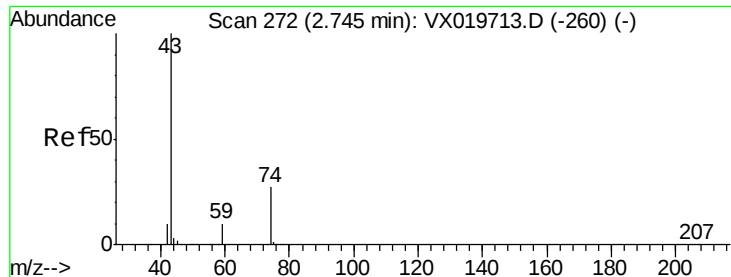
58 34.8 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

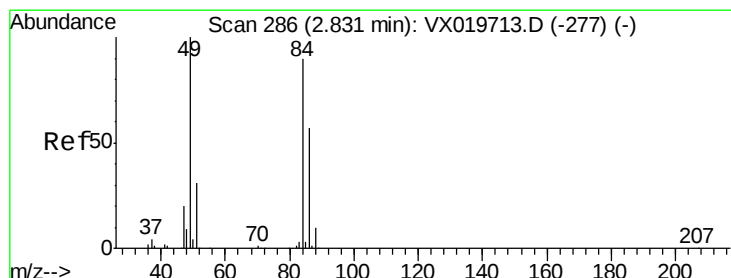
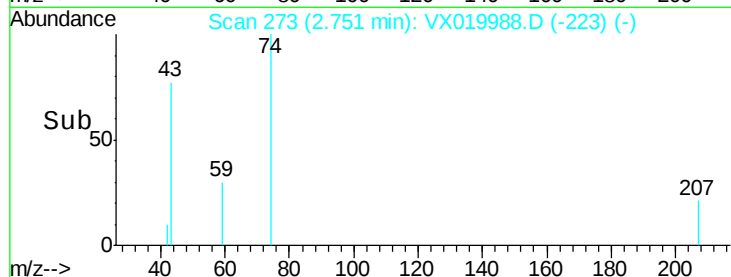
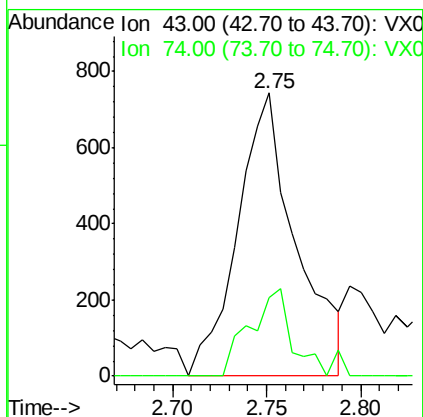
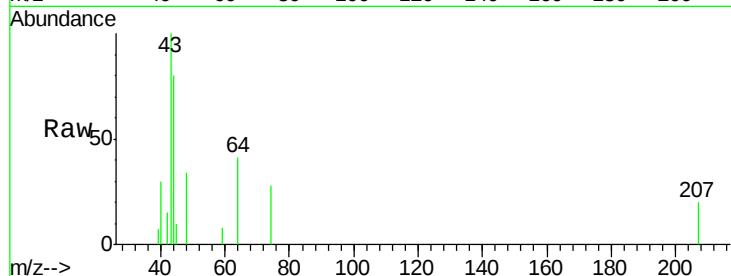




#18
Methyl Acetate
Concen: 0.426 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX019988.D
Acq: 14 Dec 2020 15:52

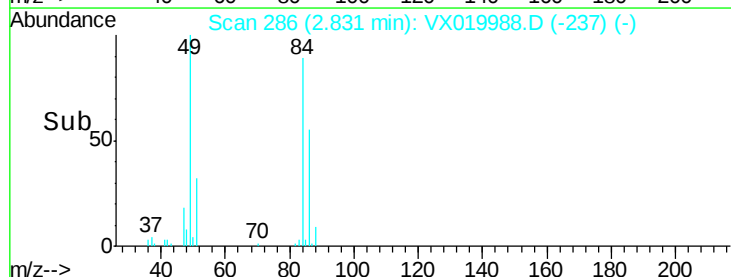
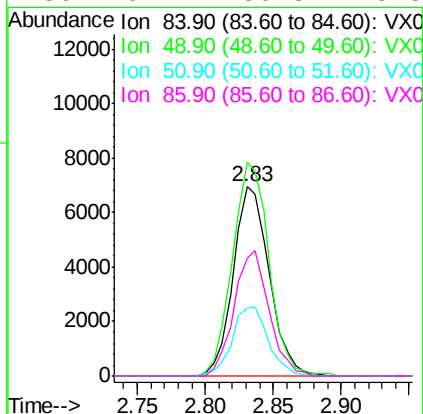
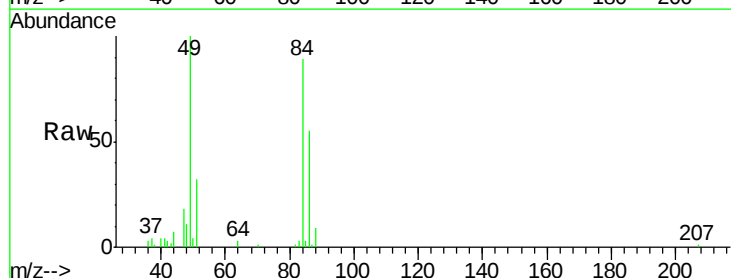
Instrument :
MSVOA_X
ClientSampleId :
JBD-WC-S-SB-0203-0-15

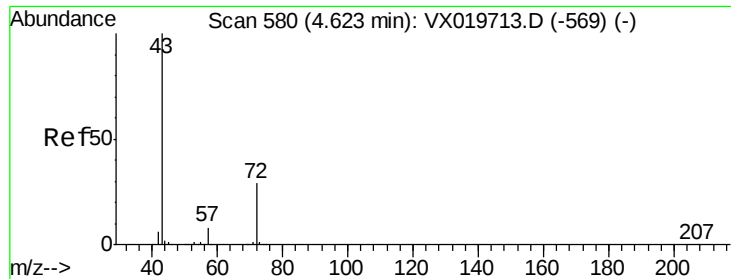
Tgt Ion: 43 Resp: 1602
Ion Ratio Lower Upper
43 100
74 22.1 21.9 32.9



#20
Methylene Chloride
Concen: 2.306 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019988.D
Acq: 14 Dec 2020 15:52

Tgt Ion: 84 Resp: 12861
Ion Ratio Lower Upper
84 100
49 112.8 88.6 132.8
51 35.9 27.0 40.6
86 62.4 50.3 75.5





#25

2-Butanone

Concen: 1.815 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

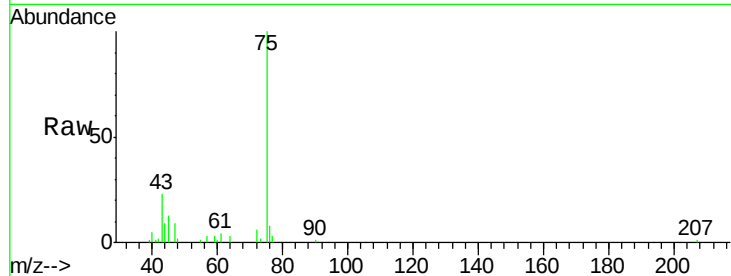
JBD-WC-S-SB-0203-0-15

Tgt Ion: 43 Resp: 4290

Ion Ratio Lower Upper

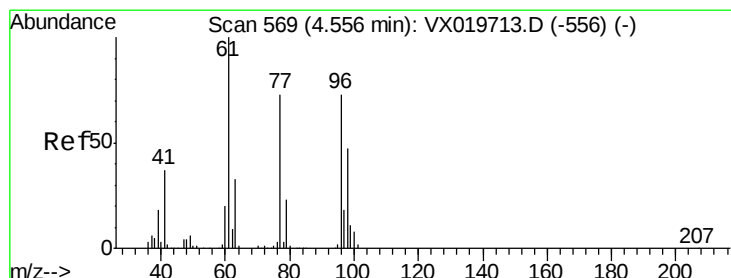
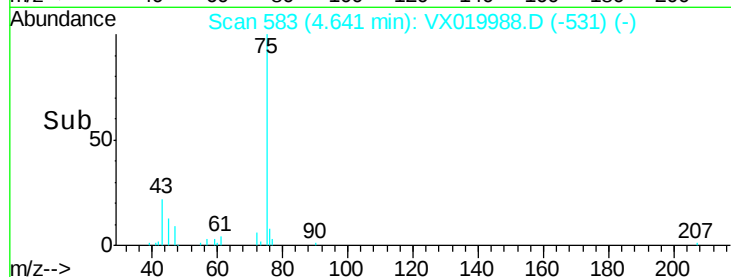
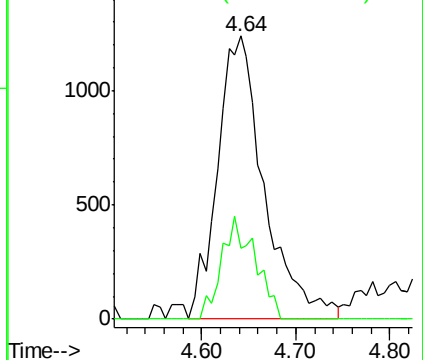
43 100

72 25.3 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.234 ug/l

RT: 4.55 min Scan# 568

Delta R.T. -0.01 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

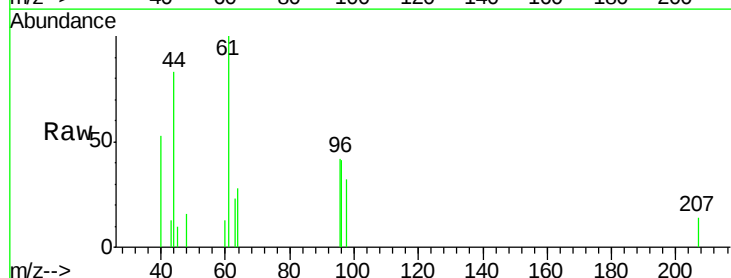
Tgt Ion: 96 Resp: 911

Ion Ratio Lower Upper

96 100

61 149.3 0.0 285.6

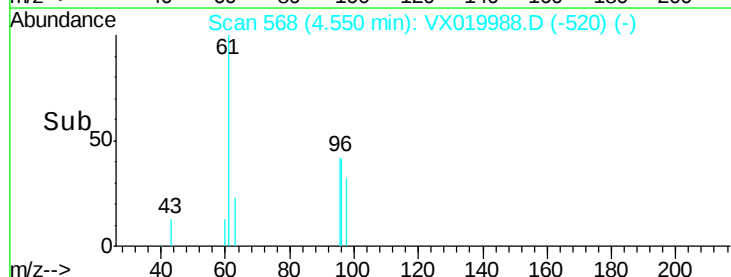
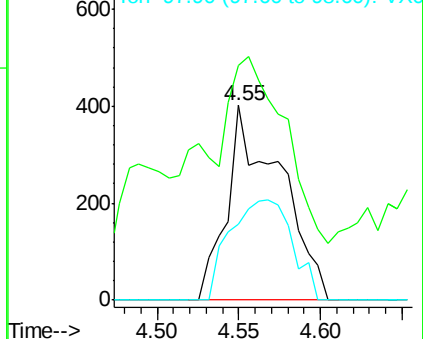
98 60.3 0.0 129.6

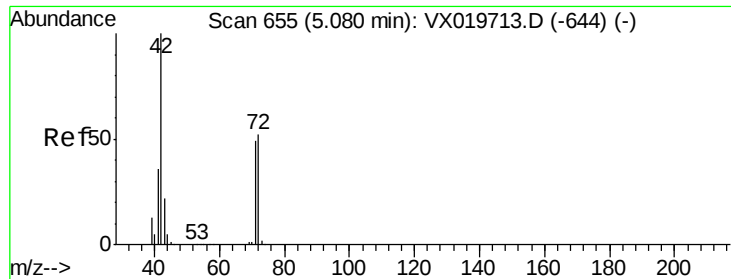


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

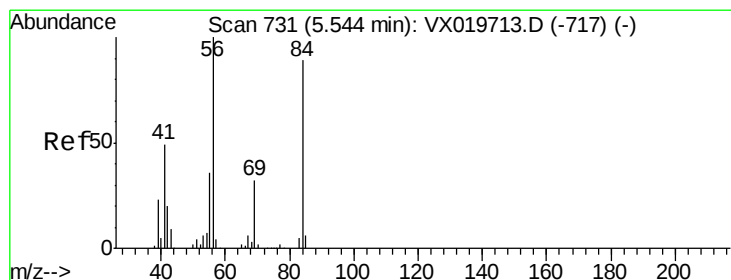
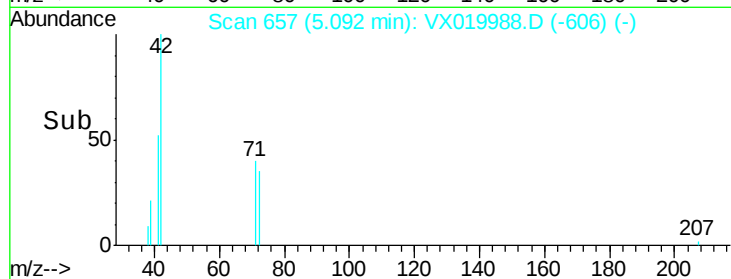
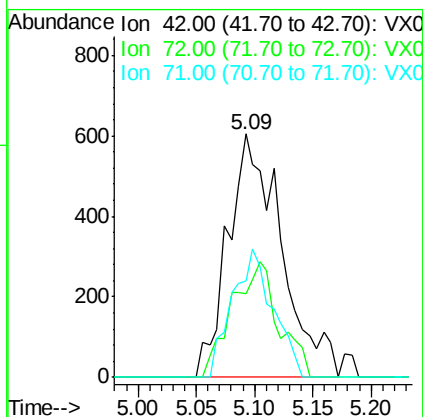
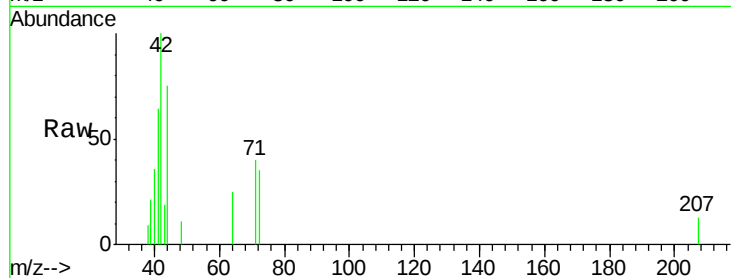




#29
Tetrahydrofuran
Concen: 1.271 ug/l
RT: 5.09 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX019988.D
Acq: 14 Dec 2020 15:52

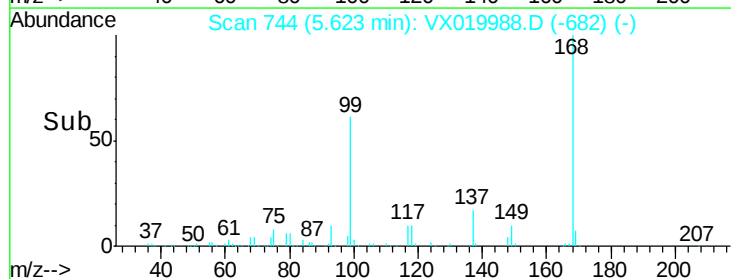
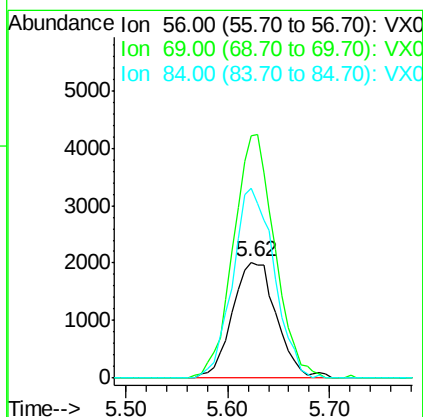
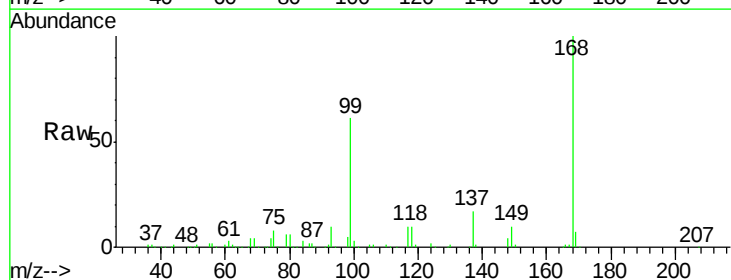
Instrument :
MSVOA_X
ClientSampleId :
JBD-WC-S-SB-0203-0-15

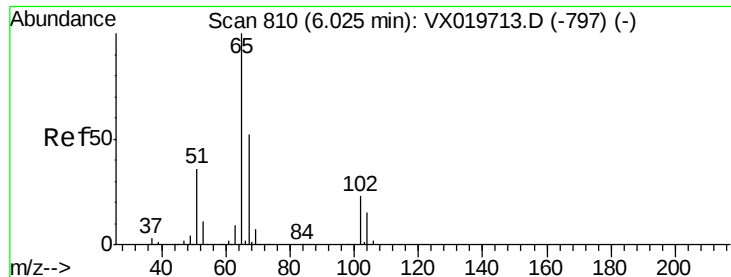
Tgt Ion: 42 Resp: 1935
Ion Ratio Lower Upper
42 100
72 41.4 41.7 62.5#
71 40.3 38.4 57.6



#31
Cyclohexane
Concen: 1.188 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019988.D
Acq: 14 Dec 2020 15:52

Tgt Ion: 56 Resp: 6047
Ion Ratio Lower Upper
56 100
69 209.3 25.3 37.9#
84 164.4 71.4 107.0#

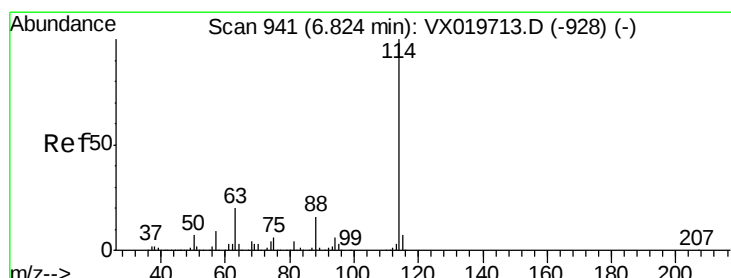
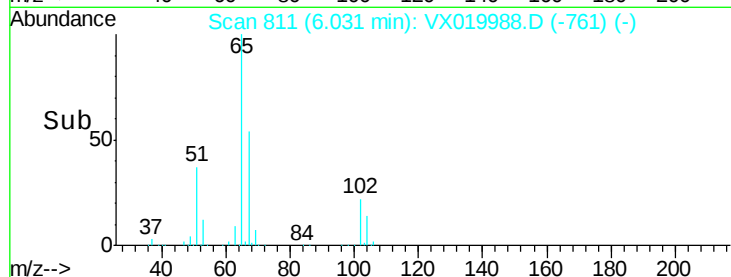
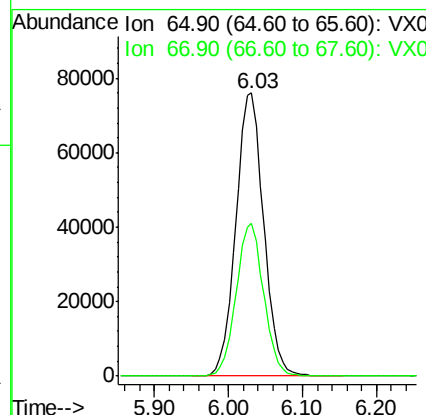
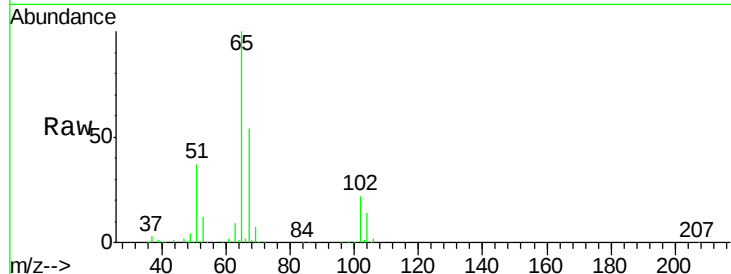




#33
 1,2-Dichloroethane-d4
 Concen: 48.702 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.01 min
 Lab File: VX019988.D
 Acq: 14 Dec 2020 15:52

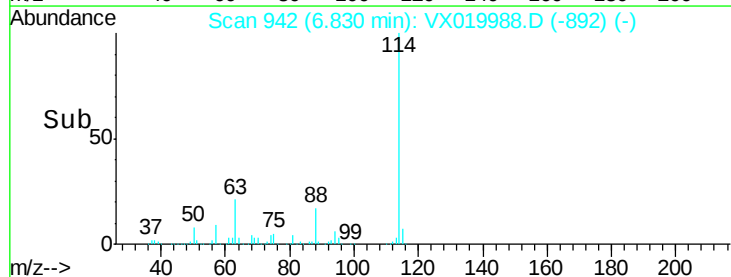
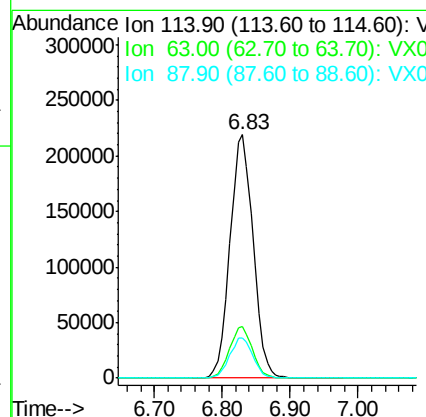
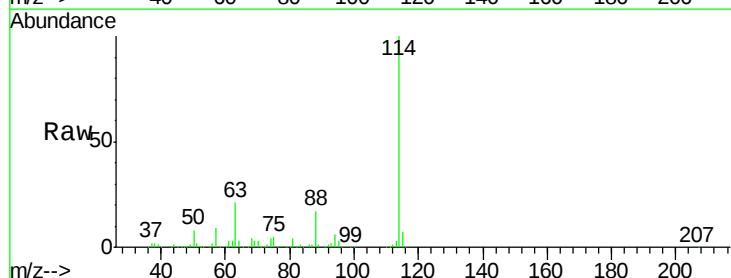
Instrument :
 MSVOA_X
 ClientSampleId :
 JBD-WC-S-SB-0203-0-15

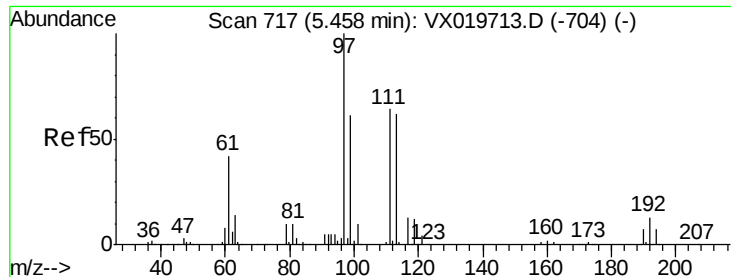
Tgt Ion: 65 Resp: 199271
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019988.D
 Acq: 14 Dec 2020 15:52

Tgt Ion: 114 Resp: 516224
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 40.8
 88 16.7 0.0 32.8

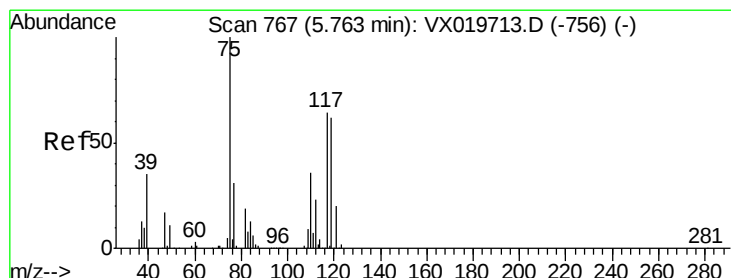
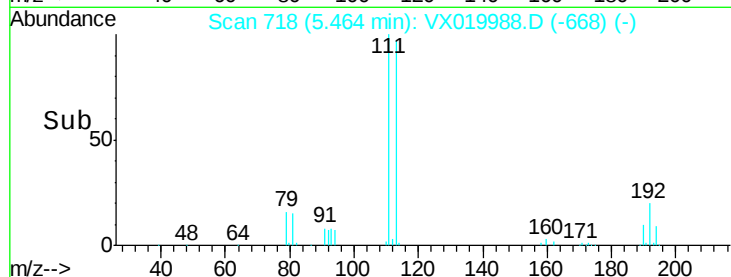
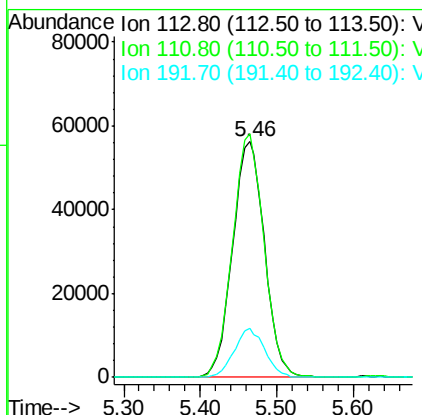
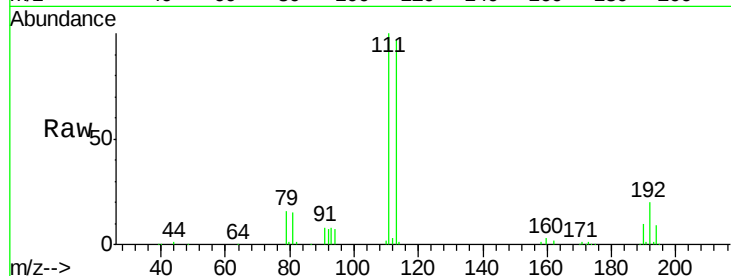




#35
 Dibromofluoromethane
 Concen: 48.718 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX019988.D
 Acq: 14 Dec 2020 15:52

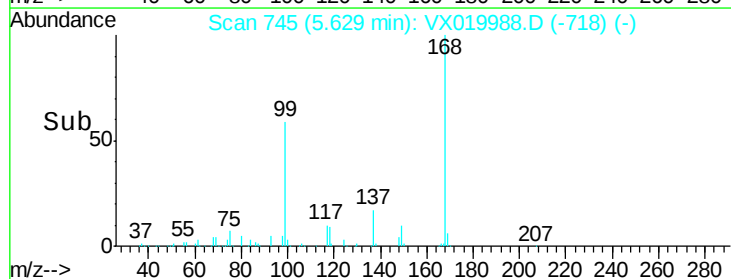
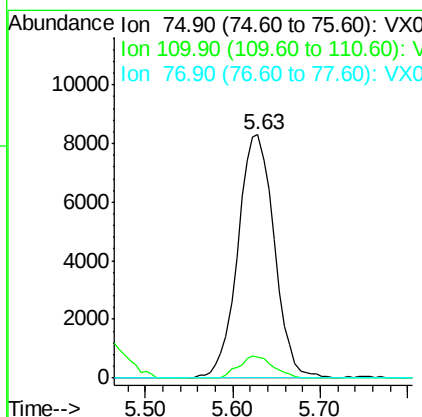
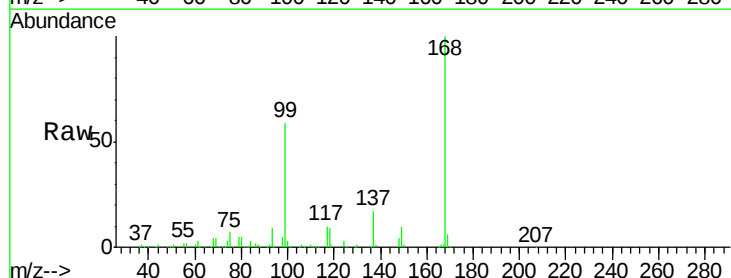
Instrument :
 MSVOA_X
 ClientSampleId :
 JBD-WC-S-SB-0203-0-15

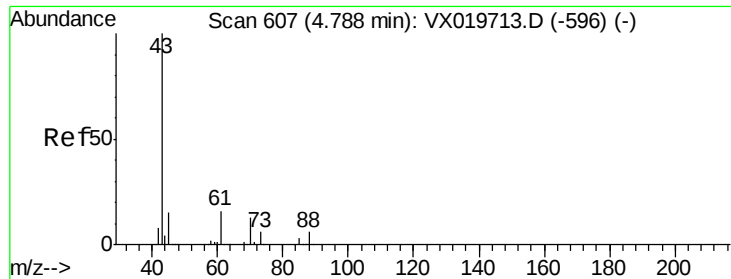
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.9	122.9
192	20.0	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 5.146 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019988.D
 Acq: 14 Dec 2020 15:52

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.1	54.4#
77	0.0	25.3	37.9#





#37

Ethyl Acetate

Concen: 0.911 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.15 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

JBD-WC-S-SB-0203-0-15

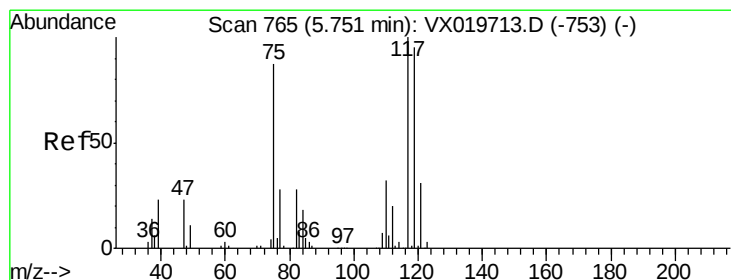
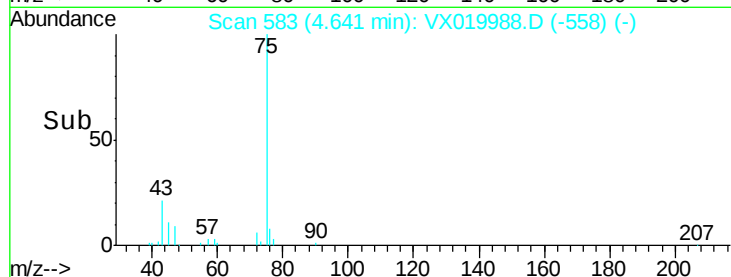
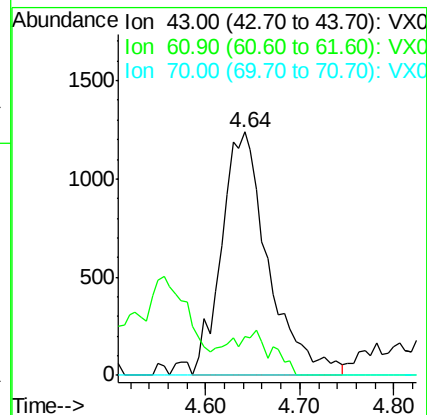
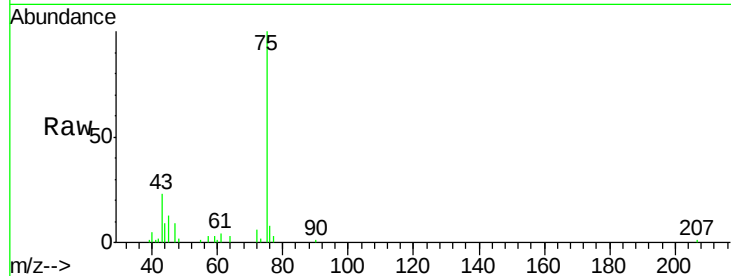
Tgt Ion: 43 Resp: 4290

Ion Ratio Lower Upper

43 100

61 1.8 12.8 19.2#

70 0.0 10.5 15.7#



#38

Carbon Tetrachloride

Concen: 6.730 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

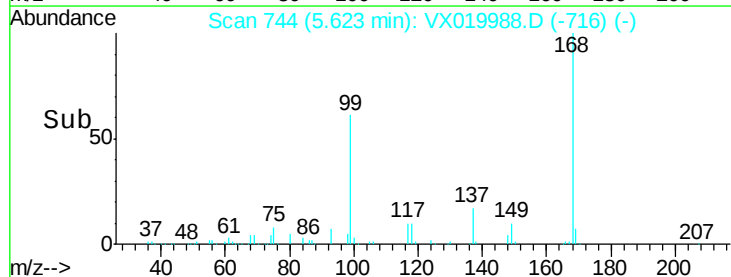
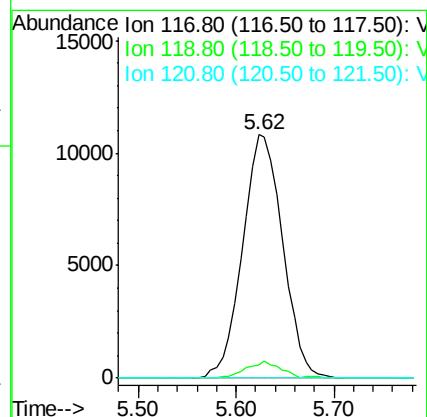
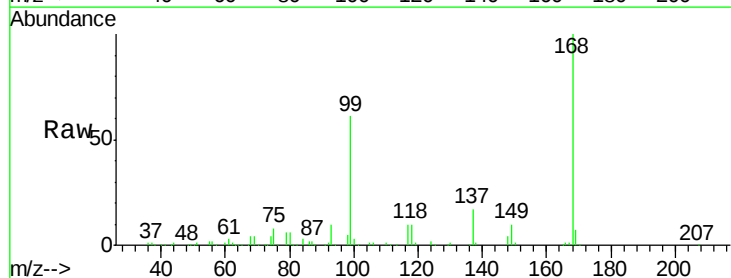
Tgt Ion: 117 Resp: 30743

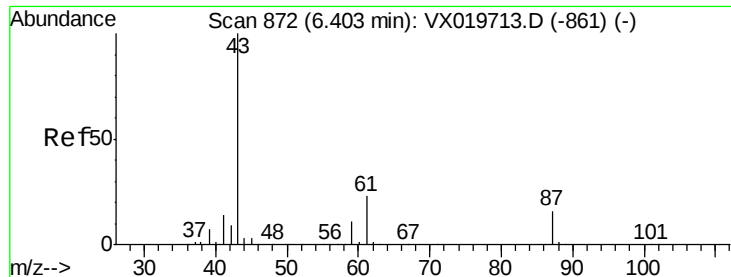
Ion Ratio Lower Upper

117 100

119 5.6 76.2 114.2#

121 0.0 24.8 37.2#





#43

Isopropyl Acetate

Concen: 3.198 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

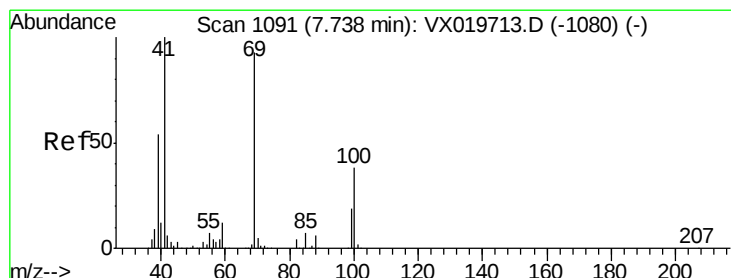
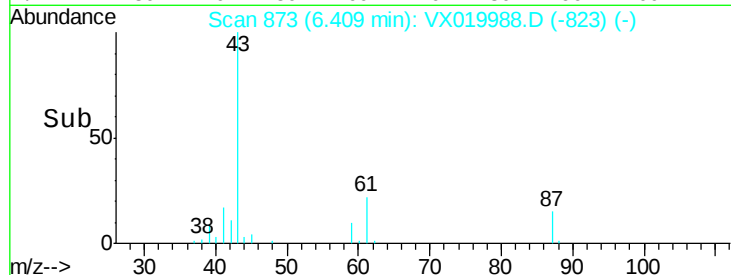
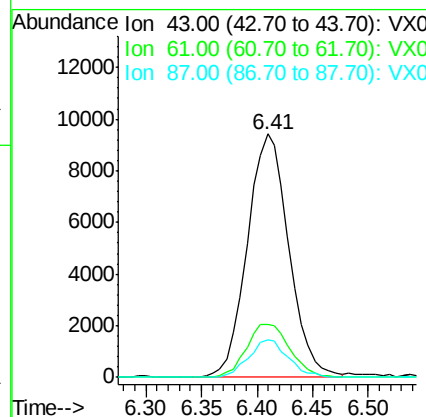
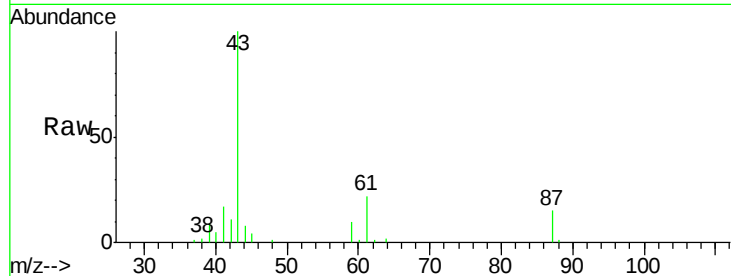
Instrument :

MSVOA_X

ClientSampleId :

JBD-WC-S-SB-0203-0-15

Tgt Ion:	43	Resp:	24487
Ion	Ratio	Lower	Upper
43	100		
61	22.9	18.2	27.4
87	14.5	12.5	18.7



#48

Methyl methacrylate

Concen: 1.824 ug/l

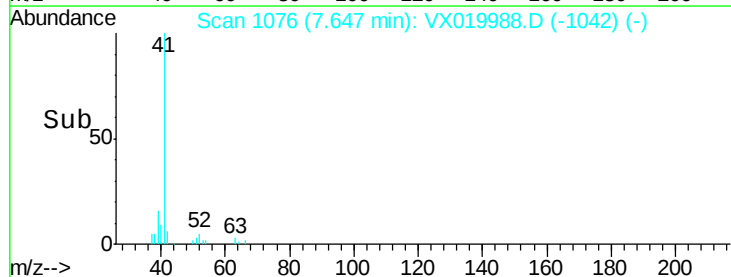
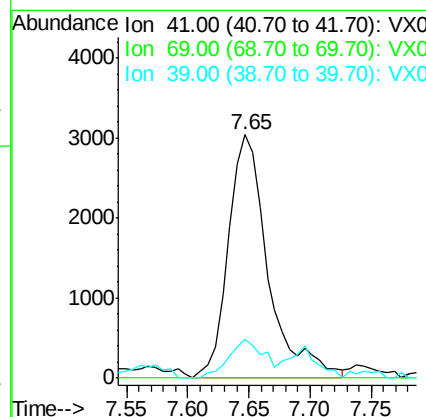
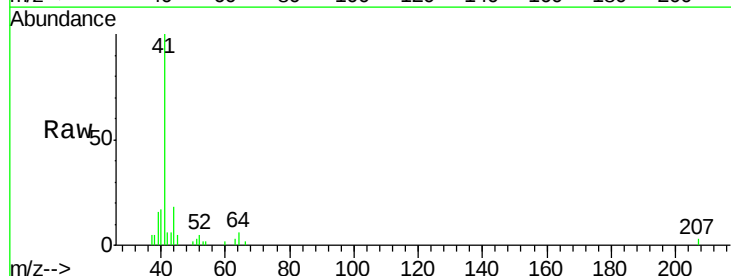
RT: 7.65 min Scan# 1076

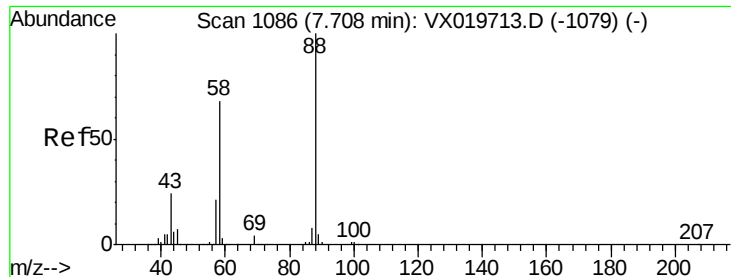
Delta R.T. -0.09 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

Tgt Ion:	41	Resp:	6869
Ion	Ratio	Lower	Upper
41	100		
69	0.0	76.0	114.0#
39	0.0	44.6	67.0#





#49

1,4-Dioxane

Concen: 2.433 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.15 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

JBD-WC-S-SB-0203-0-15

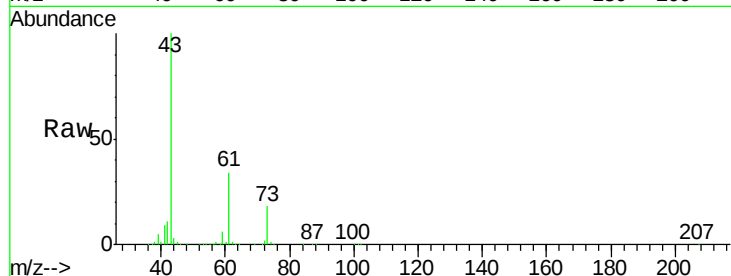
Tgt Ion: 88 Resp: 222

Ion Ratio Lower Upper

88 100

43 585574.3 23.2 34.8#

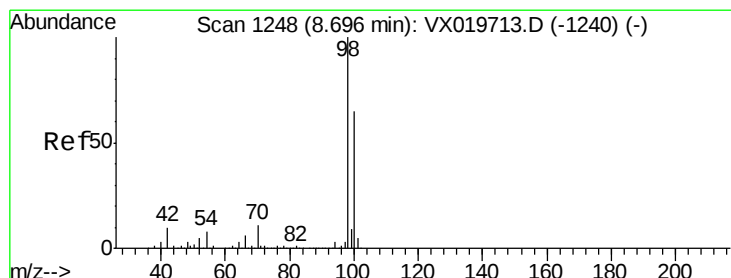
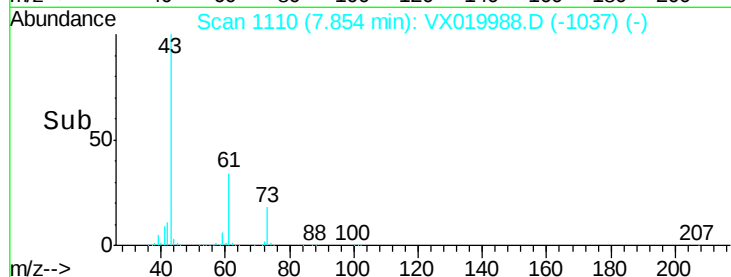
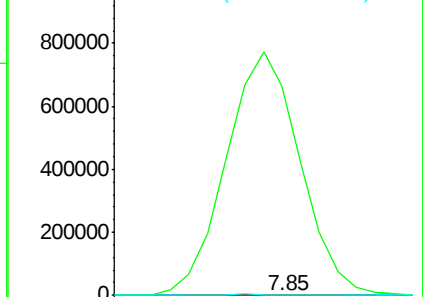
58 3083.8 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.613 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019988.D

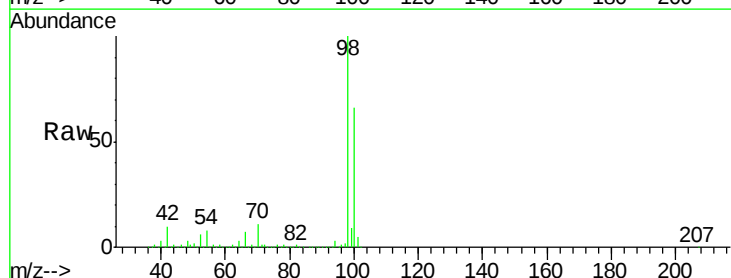
Acq: 14 Dec 2020 15:52

Tgt Ion: 98 Resp: 644657

Ion Ratio Lower Upper

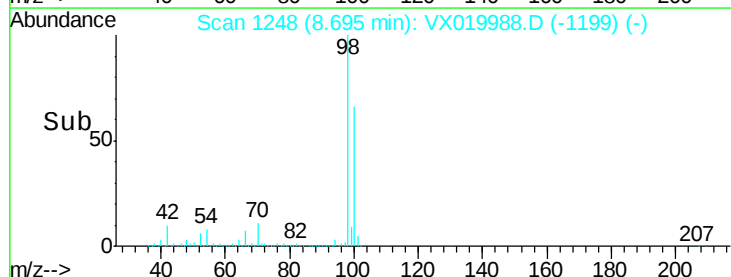
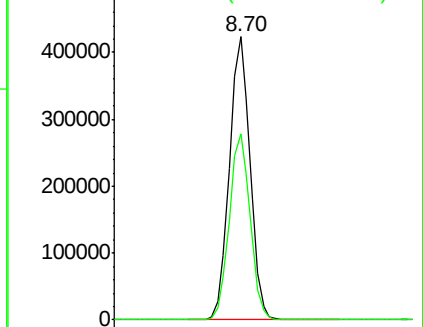
98 100

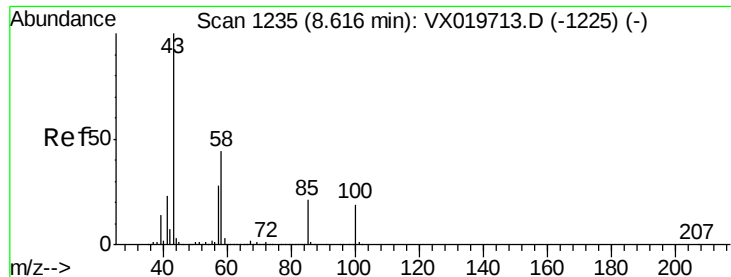
100 65.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 16.838 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

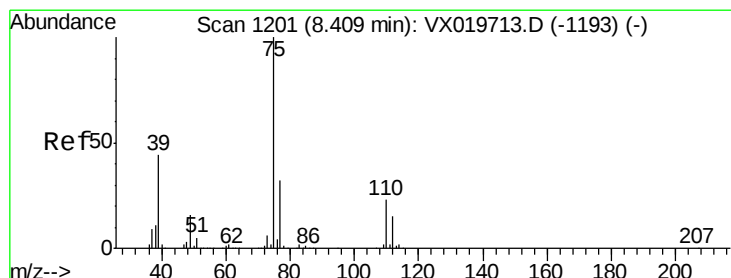
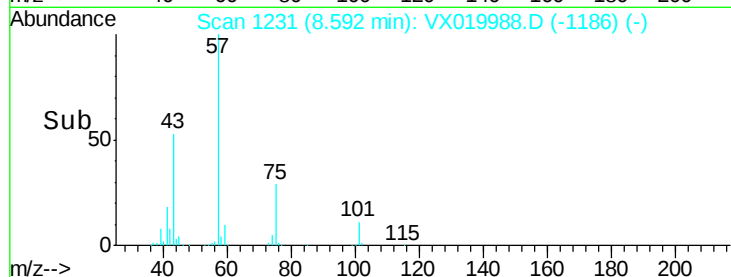
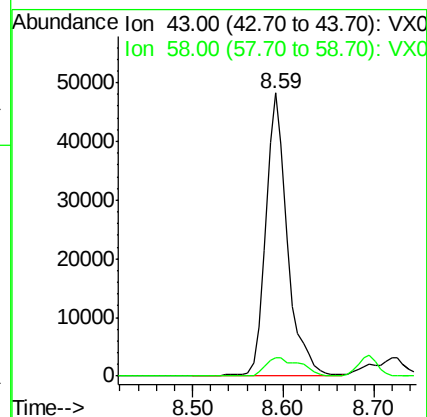
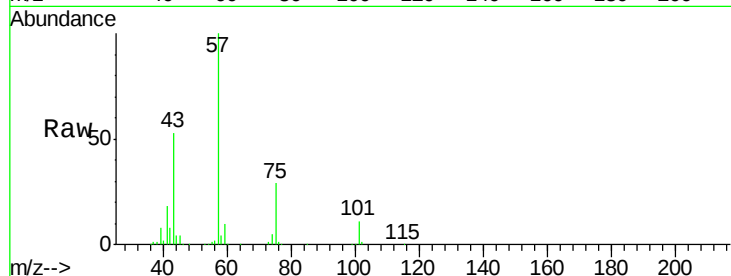
JBD-WC-S-SB-0203-0-15

Tgt Ion: 43 Resp: 78717

Ion Ratio Lower Upper

43 100

58 10.5 35.4 53.0#



#54

cis-1,3-Dichloropropene

Concen: 6.793 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

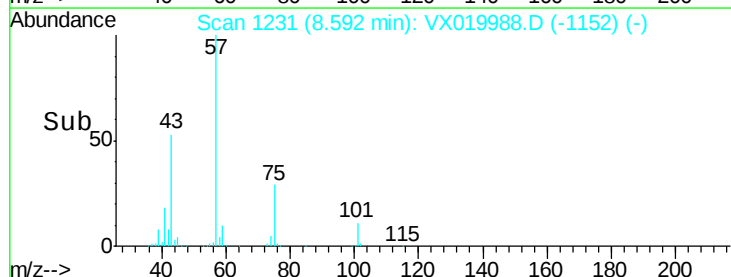
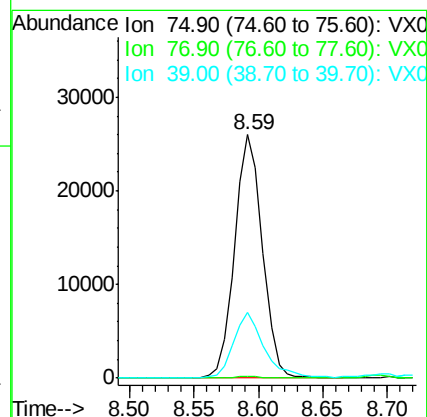
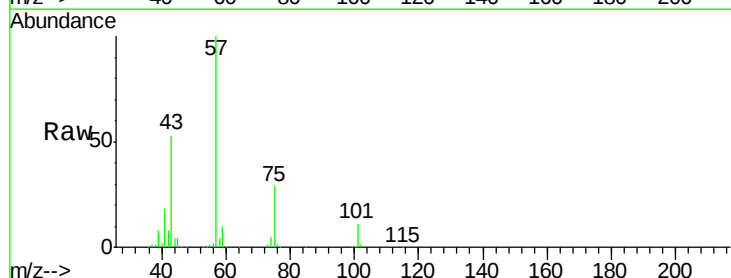
Tgt Ion: 75 Resp: 39085

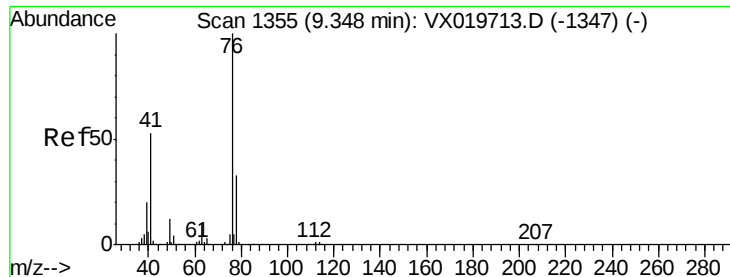
Ion Ratio Lower Upper

75 100

77 0.8 25.7 38.5#

39 26.9 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 3.683 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

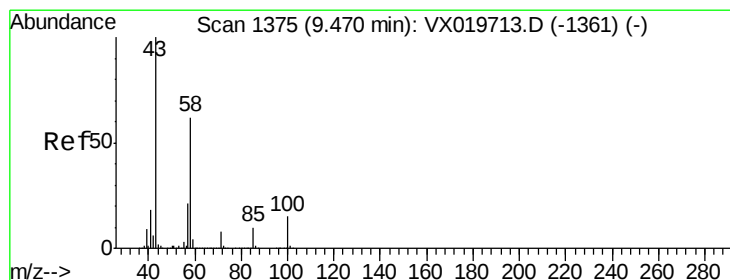
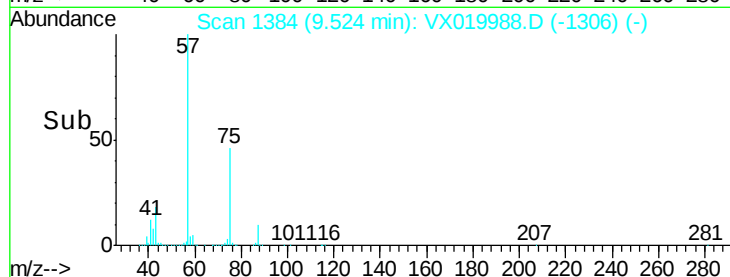
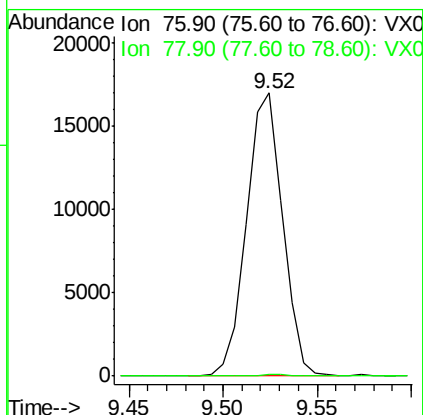
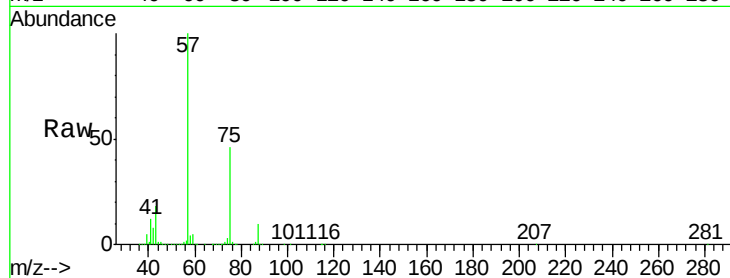
JBD-WC-S-SB-0203-0-15

Tgt Ion: 76 Resp: 22586

Ion Ratio Lower Upper

76 100

78 0.5 26.2 39.2#



#59

2-Hexanone

Concen: 75.818 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019988.D

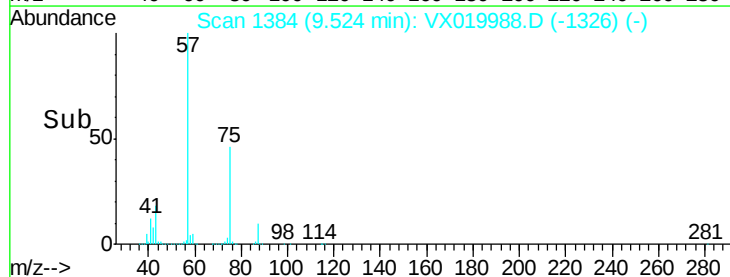
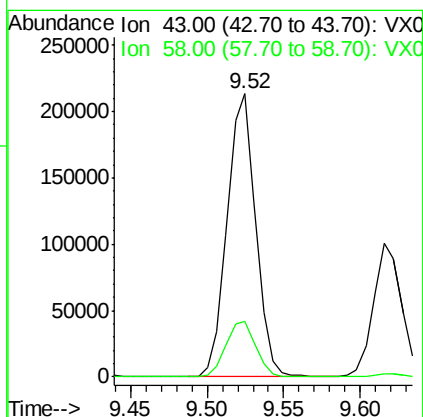
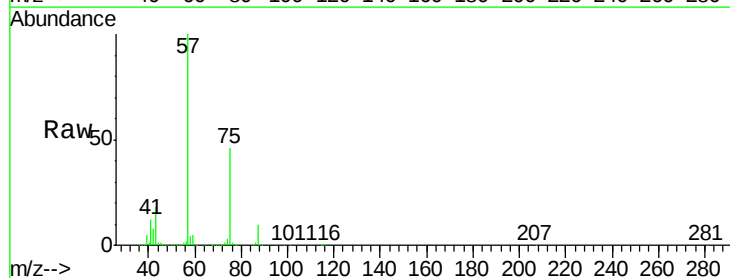
Acq: 14 Dec 2020 15:52

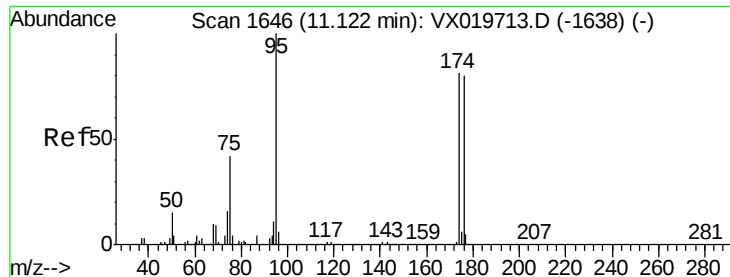
Tgt Ion: 43 Resp: 274745

Ion Ratio Lower Upper

43 100

58 20.6 30.9 92.8#





#62

4-Bromofluorobenzene

Concen: 46.964 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

JBD-WC-S-SB-0203-0-15

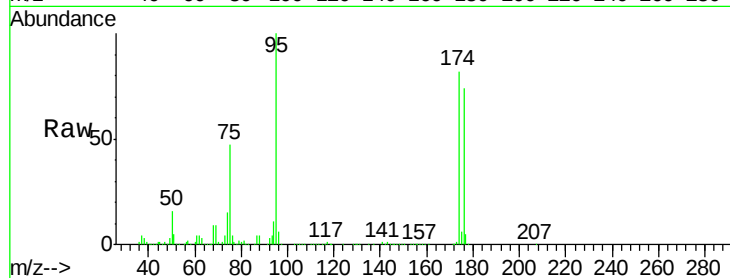
Tgt Ion: 95 Resp: 227675

Ion Ratio Lower Upper

95 100

174 78.4 0.0 154.6

176 73.9 0.0 155.8



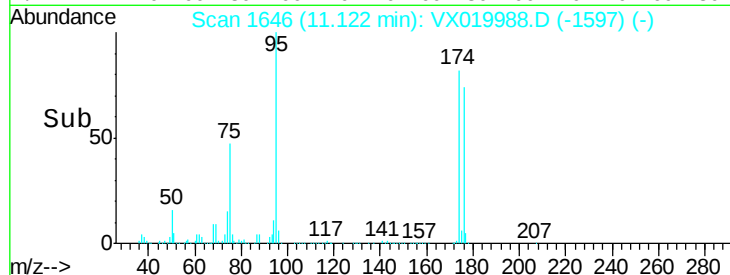
Abundance Ion 94.90 (94.60 to 95.60): VX019713.D (-1638) (-)

Ion 173.80 (173.50 to 174.50): VX019713.D (-1638) (-)

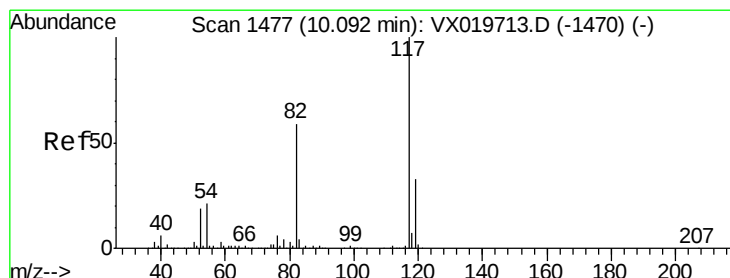
Ion 175.80 (175.50 to 176.50): VX019713.D (-1638) (-)

11.12

11.10 11.20



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

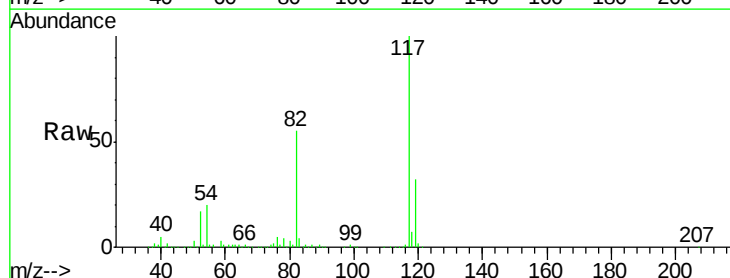
Tgt Ion: 117 Resp: 486070

Ion Ratio Lower Upper

117 100

82 55.4 47.4 71.2

119 31.9 26.6 39.8



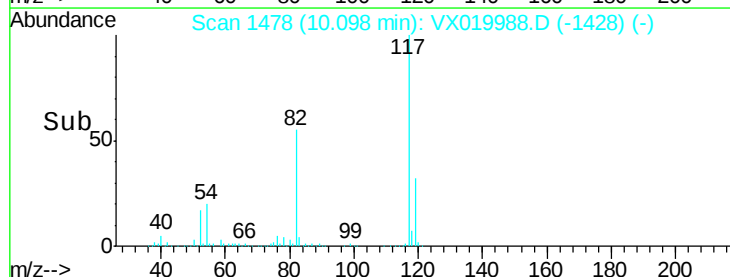
Abundance Ion 116.90 (116.60 to 117.60): VX019713.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019713.D (-1470) (-)

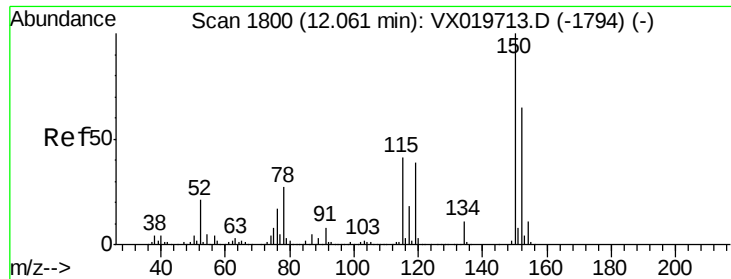
Ion 118.90 (118.60 to 119.60): VX019713.D (-1470) (-)

10.10

10.00 10.20



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

JBD-WC-S-SB-0203-0-15

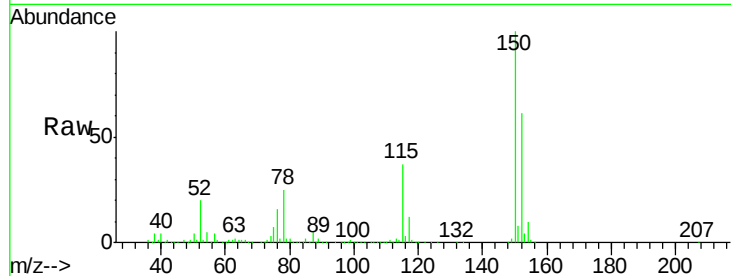
Tgt Ion:152 Resp: 210554

Ion Ratio Lower Upper

152 100

115 60.5 41.1 123.3

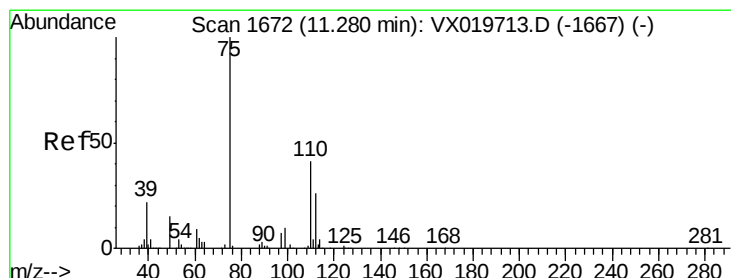
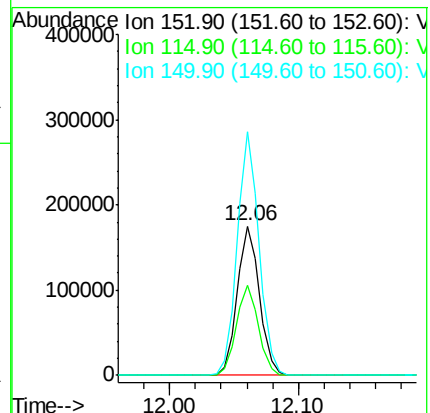
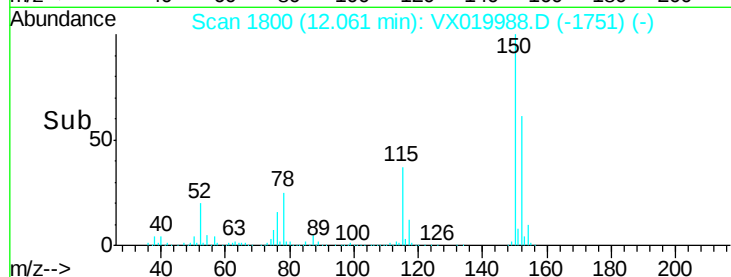
150 160.5 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.185 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019988.D

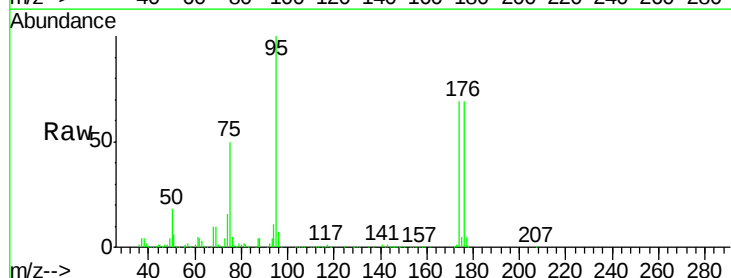
Acq: 14 Dec 2020 15:52

Tgt Ion: 75 Resp: 109489

Ion Ratio Lower Upper

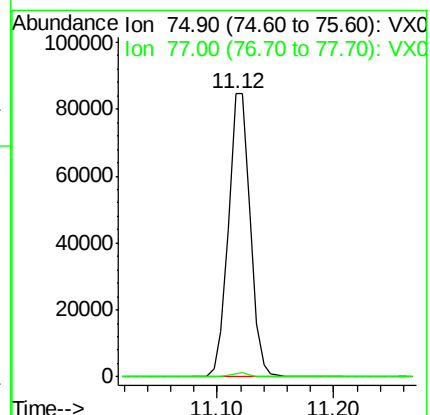
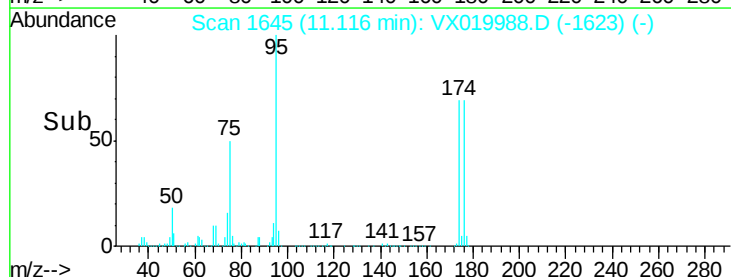
75 100

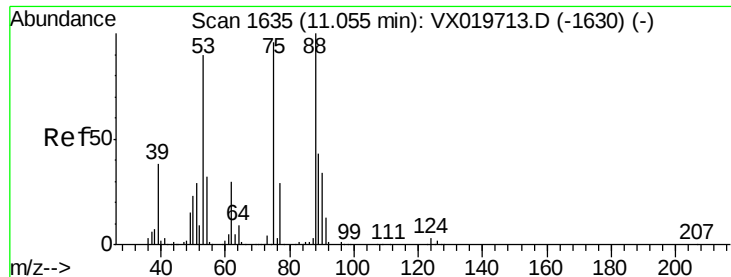
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.024 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019988.D

Acq: 14 Dec 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

JBD-WC-S-SB-0203-0-15

Tgt Ion: 75 Resp: 109489

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

