

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090820\
 Data File : VX018296.D
 Acq On : 09 Sep 2020 00:22
 Operator : JC/SP
 Sample : L3872-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BU-03-090420

Quant Time: Sep 09 02:48:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	441244	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	725015	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	676390	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	340433	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	324013	52.89	ug/l	0.00
Spiked Amount			Recovery	=	105.78%	
35) Dibromofluoromethane	5.47	113	249020	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
50) Toluene-d8	8.70	98	870796	47.35	ug/l	0.00
Spiked Amount			Recovery	=	94.70%	
62) 4-Bromofluorobenzene	11.12	95	325843	45.03	ug/l	0.00
Spiked Amount			Recovery	=	90.06%	

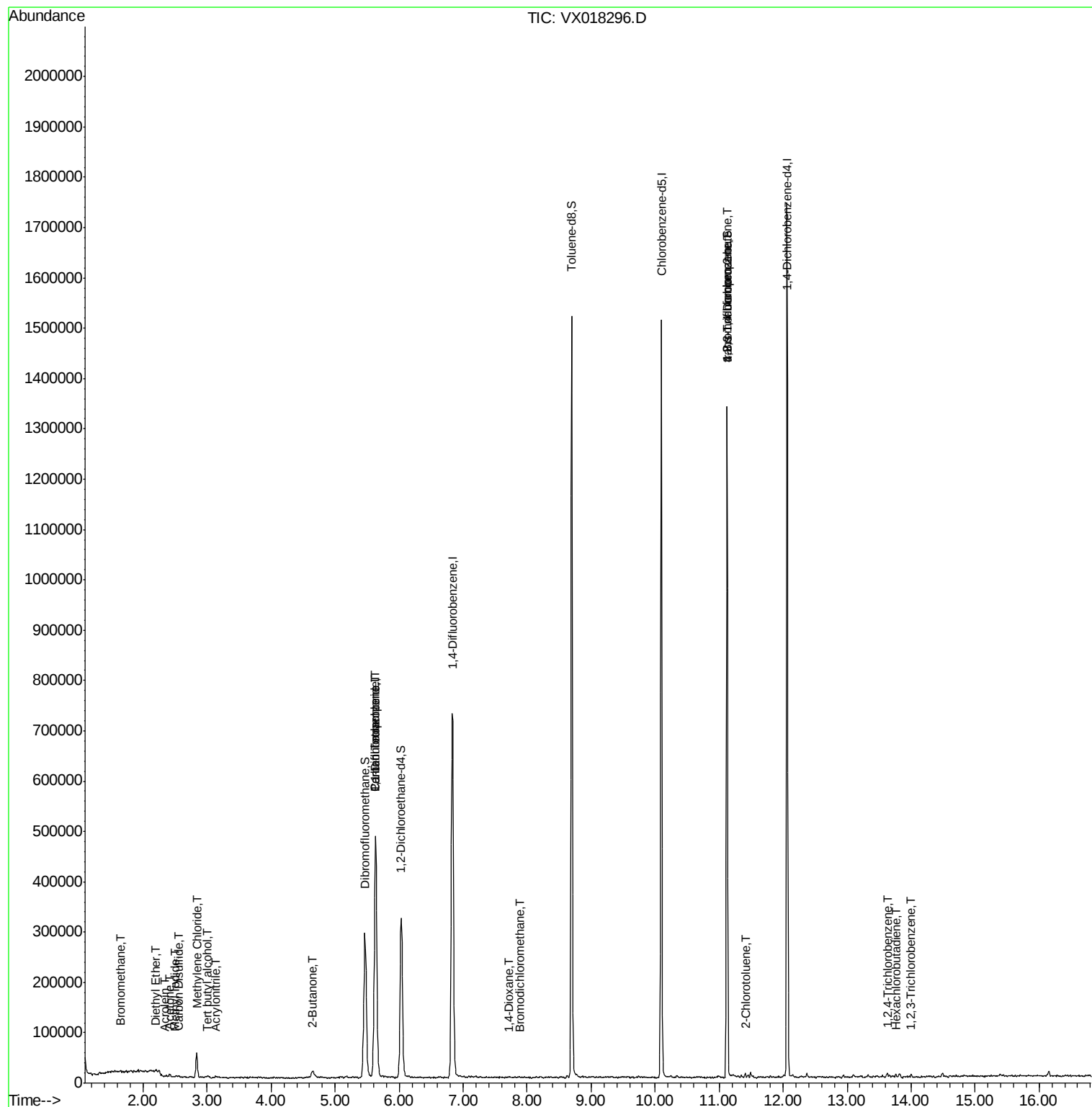
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	965	0.355	ug/l #	49
8) Diethyl Ether	2.20	74	652	0.250	ug/l	87
10) Methyl Iodide	2.50	142	1218	5.532	ug/l #	97
11) Tert butyl alcohol	3.01	59	1624	1.364	ug/l #	92
13) Acrolein	2.34	56	253	0.512	ug/l #	17
15) Acrylonitrile	3.12	53	625	0.231	ug/l #	70
16) Acetone	2.42	43	5420	2.271	ug/l	93
17) Carbon Disulfide	2.55	76	3142	0.241	ug/l #	90
20) Methylene Chloride	2.84	84	21644	3.345	ug/l	93
25) 2-Butanone	4.64	43	1586	0.404	ug/l	99
36) 1,1-Dichloropropene	5.63	75	33852	5.062	ug/l #	41
38) Carbon Tetrachloride	5.64	117	47631	6.320	ug/l #	17
47) Bromodichloromethane	7.89	83	1499	0.202	ug/l #	79
49) 1,4-Dioxane	7.70	88	57	0.504	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	166410	21.974	ug/l #	36
79) 2-Chlorotoluene	11.41	91	3157	0.200	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.12	75	166410	59.348	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	1629	0.238	ug/l	79
94) Hexachlorobutadiene	13.76	225	914	0.339	ug/l	86
96) 1,2,3-Trichlorobenzene	14.00	180	1361	0.201	ug/l	82

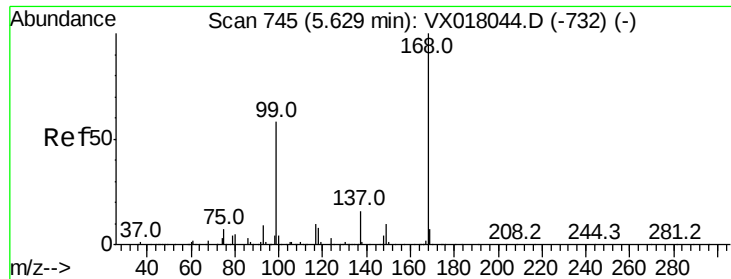
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 21 03:03:56 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

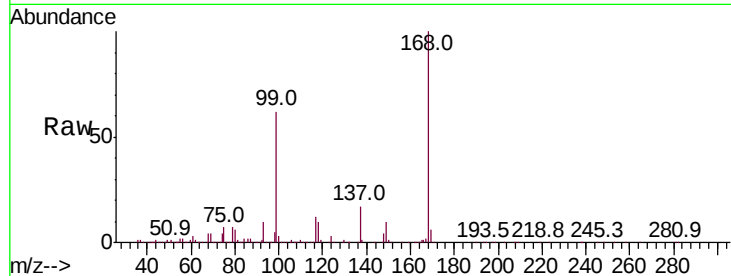
BU-03-090420

Tot Ion:168 Resp: 441244

Ion Ratio Lower Upper

168 100

99 61.8 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

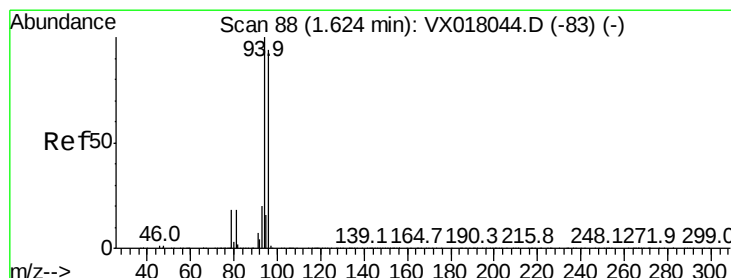
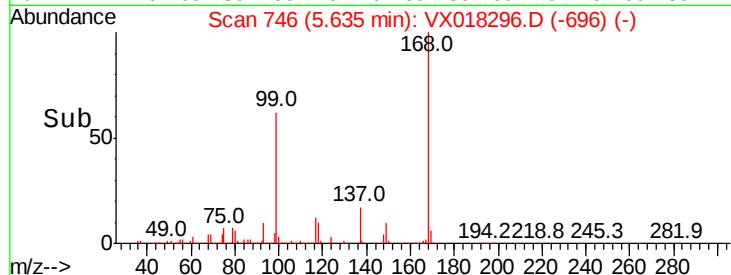
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.355 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX018296.D

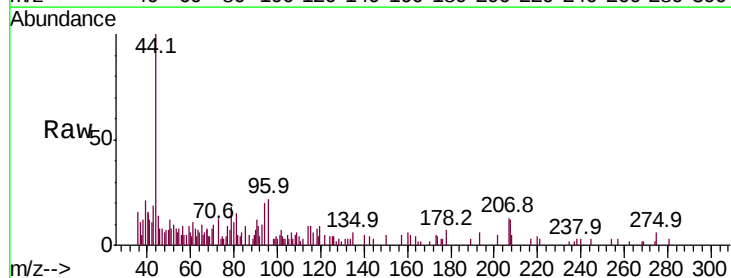
Acq: 09 Sep 2020 00:22

Tgt Ion: 94 Resp: 965

Ion Ratio Lower Upper

94 100

96 44.6 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

600

500

400

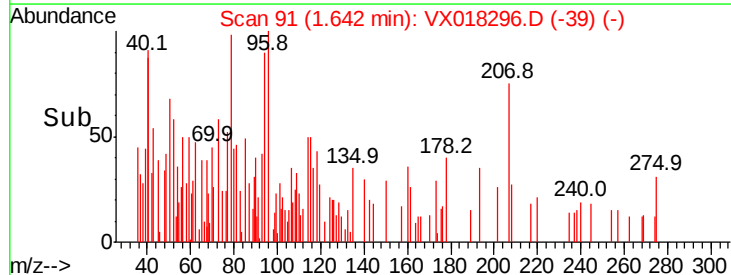
300

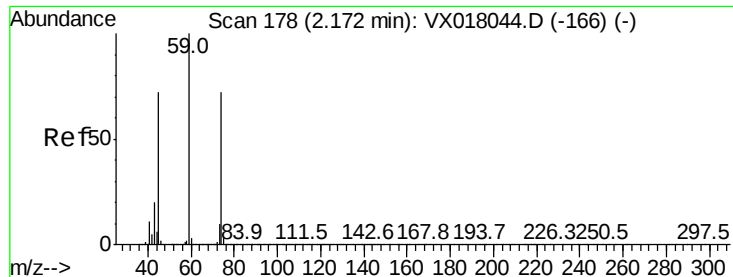
200

100

0

Time-->





#8

Diethyl Ether

Concen: 0.250 ug/l

RT: 2.20 min Scan# 182

Delta R.T. 0.02 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

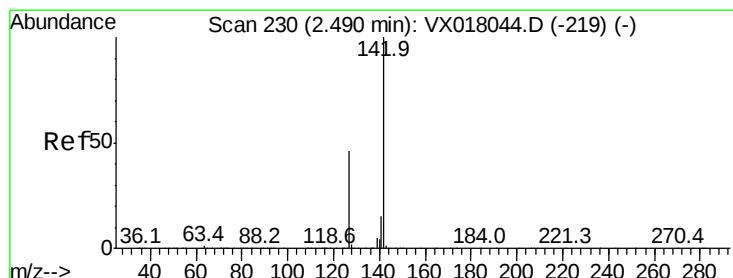
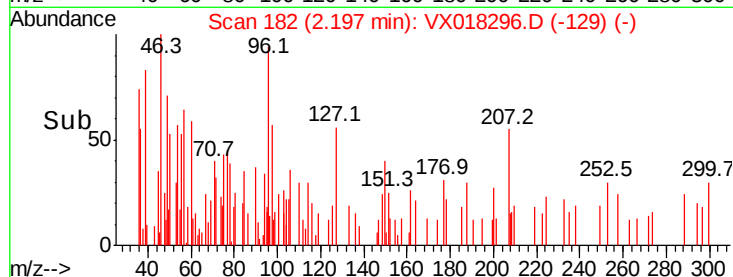
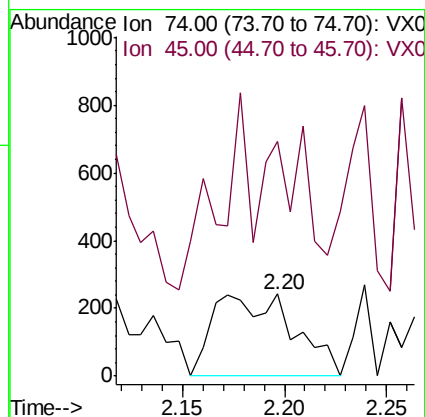
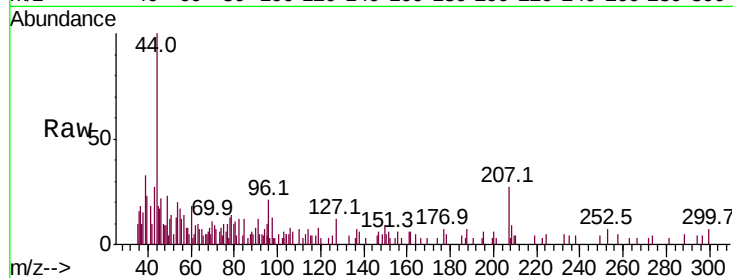
BU-03-090420

Tot Ion: 74 Resp: 652

Ion Ratio Lower Upper

74 100

45 88.5 50.7 152.3



#10

Methyl Iodide

Concen: 5.532 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

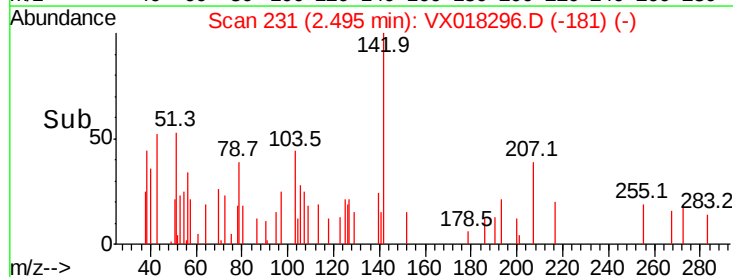
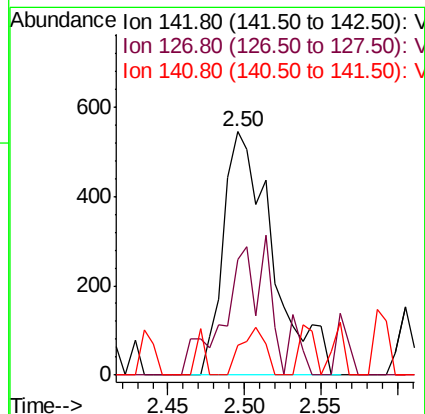
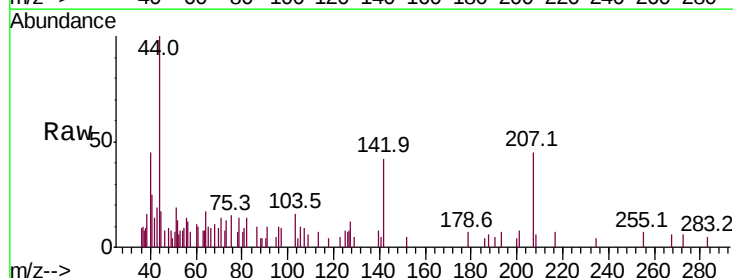
Tgt Ion: 142 Resp: 1218

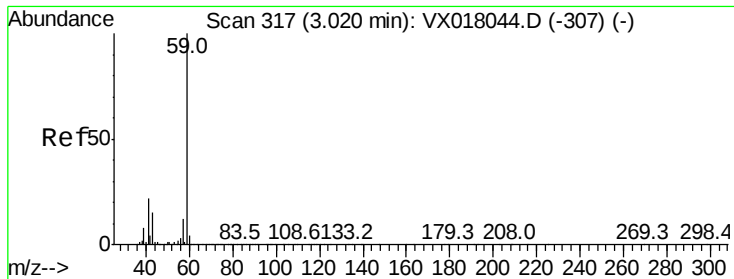
Ion Ratio Lower Upper

142 100

127 46.4 37.0 55.6

141 9.7 11.5 17.3#



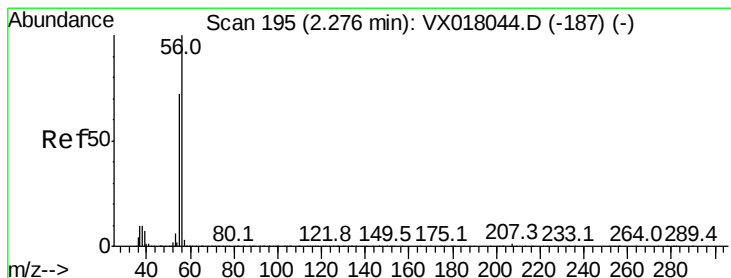
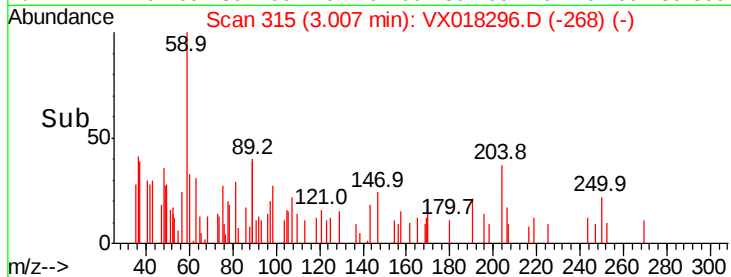
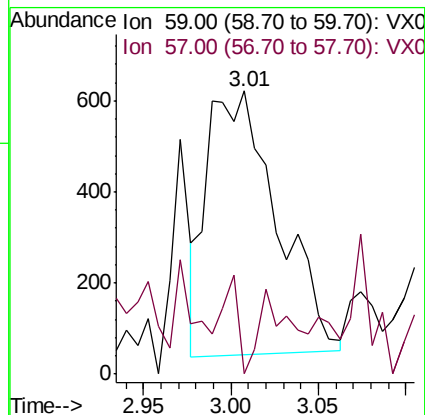
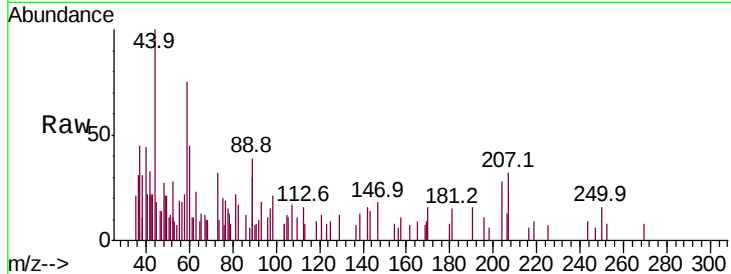


#11

Tert butyl alcohol
 Concen: 1.364 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX018296.D
 Acq: 09 Sep 2020 00:22

Instrument :
 MSVOA_X
 ClientSampled :
 BU-03-090420

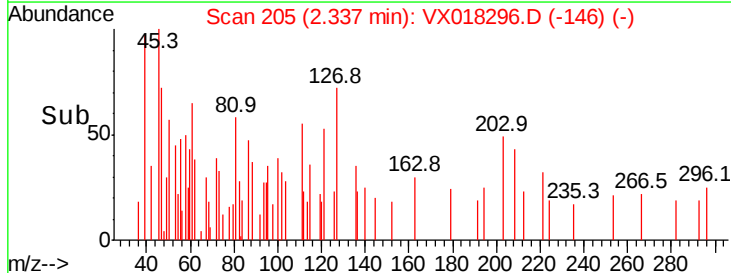
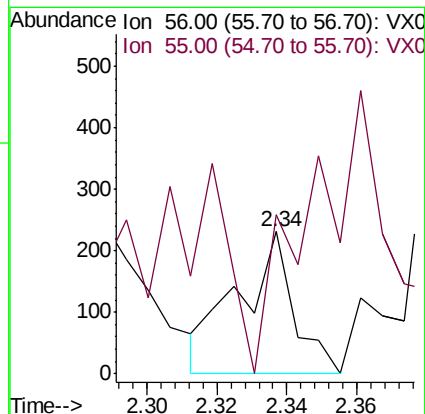
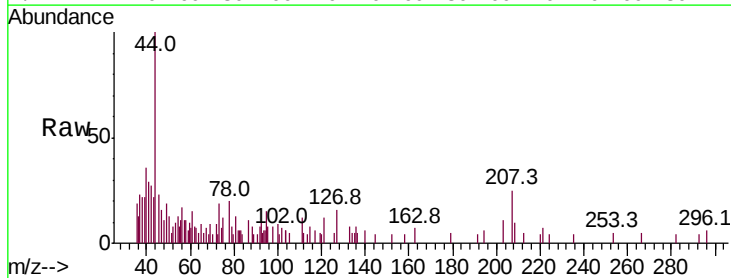
Tot Ion: 59 Resp: 1624
 Ion Ratio Lower Upper
 59 100
 57 8.2 8.9 13.3#

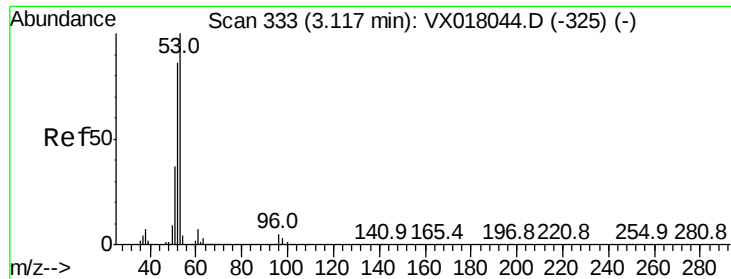


#13

Acrolein
 Concen: 0.512 ug/l
 RT: 2.34 min Scan# 205
 Delta R.T. 0.06 min
 Lab File: VX018296.D
 Acq: 09 Sep 2020 00:22

Tgt Ion: 56 Resp: 253
 Ion Ratio Lower Upper
 56 100
 55 139.9 57.0 85.6#





#15

Acrylonitrile

Concen: 0.231 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

BU-03-090420

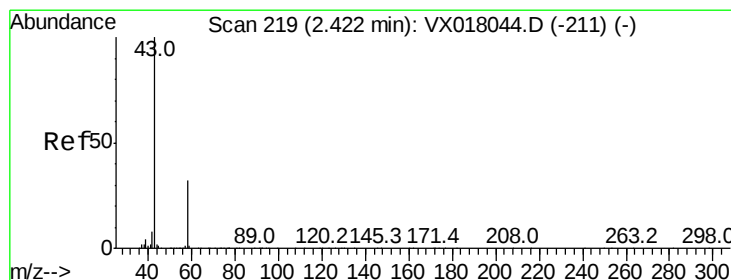
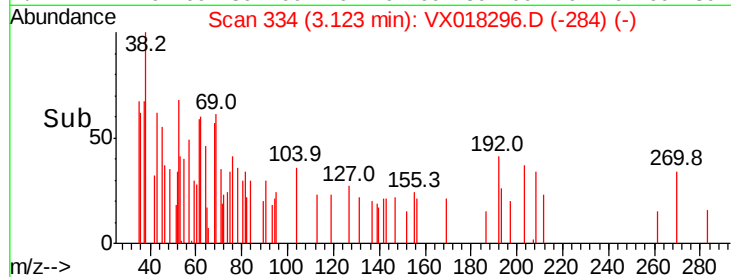
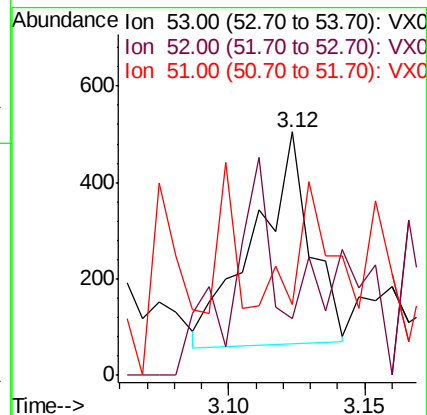
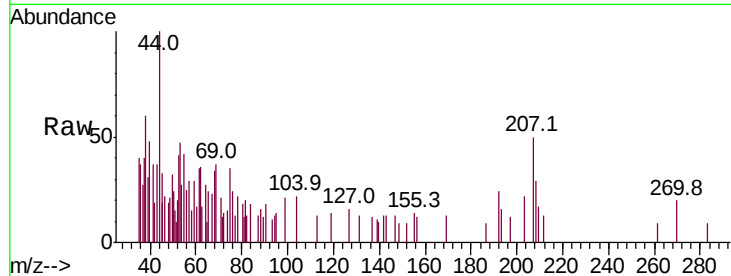
Tot Ion: 53 Resp: 625

Ion Ratio Lower Upper

53 100

52 61.4 66.9 100.3#

51 60.5 28.7 43.1#



#16

Acetone

Concen: 2.271 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018296.D

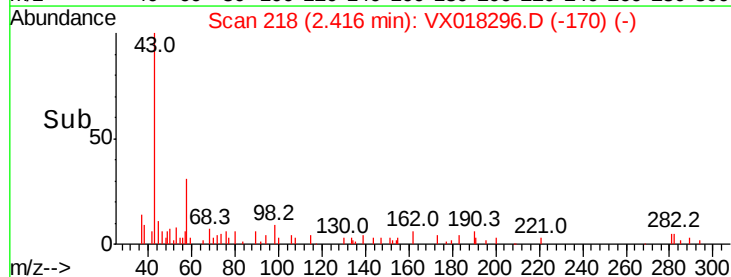
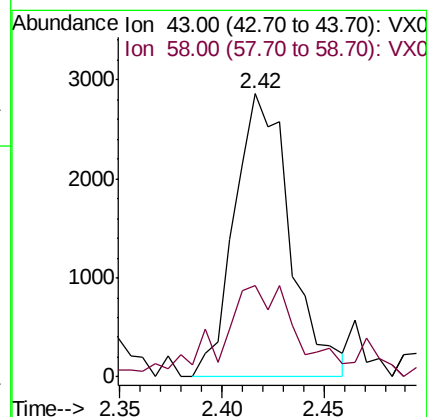
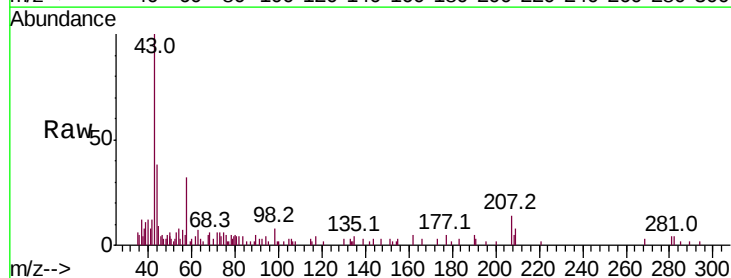
Acq: 09 Sep 2020 00:22

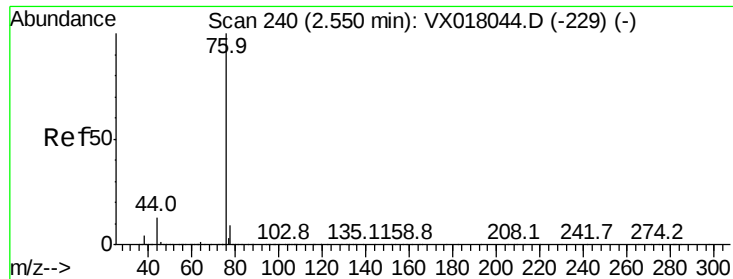
Tgt Ion: 43 Resp: 5420

Ion Ratio Lower Upper

43 100

58 28.3 25.5 38.3





#17

Carbon Disulfide

Concen: 0.241 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

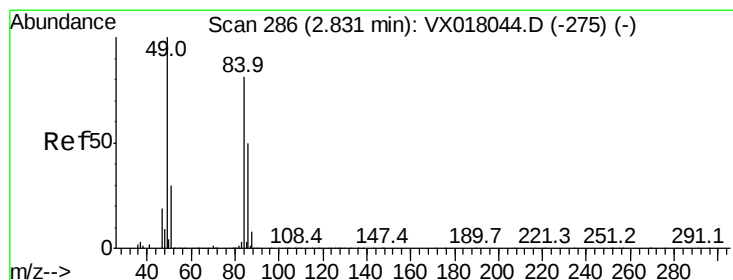
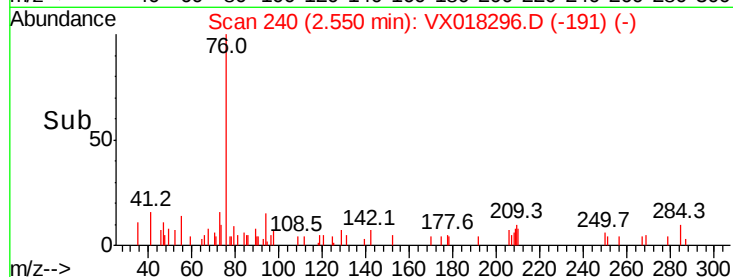
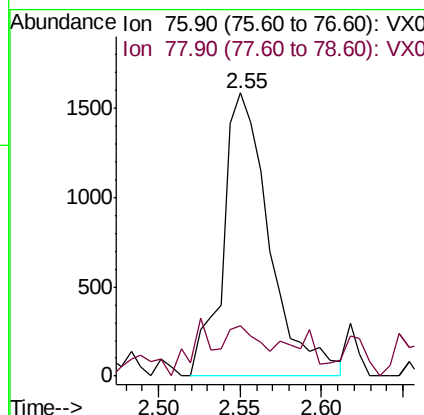
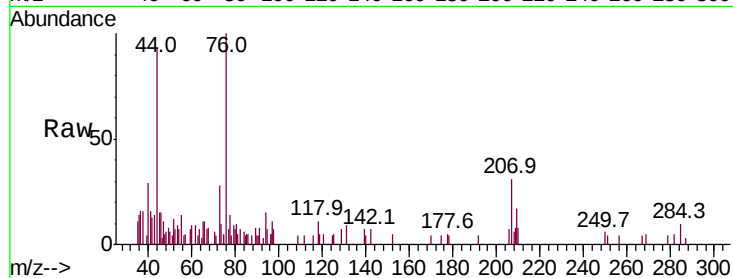
Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

Instrument :
MSVOA_X
ClientSampleId :
BU-03-090420

Tot Ion: 76 Resp: 3142

Ion	Ratio	Lower	Upper
76	100		
78	12.9	7.4	11.0#



#20

Methylene Chloride

Concen: 3.345 ug/l

RT: 2.84 min Scan# 287

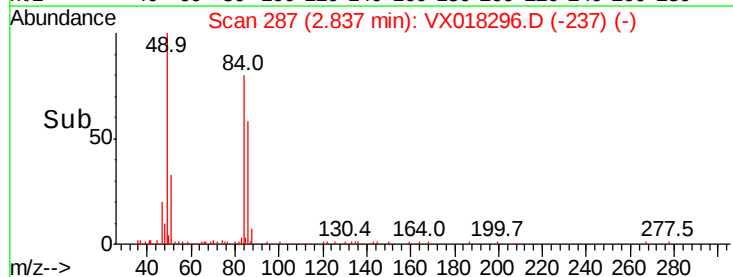
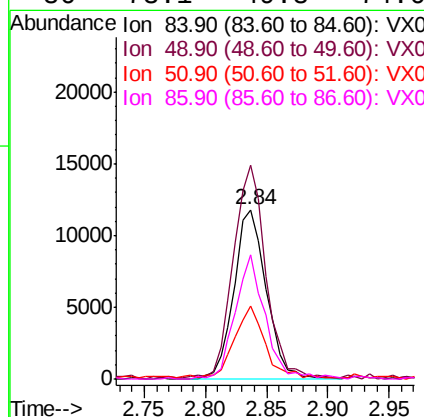
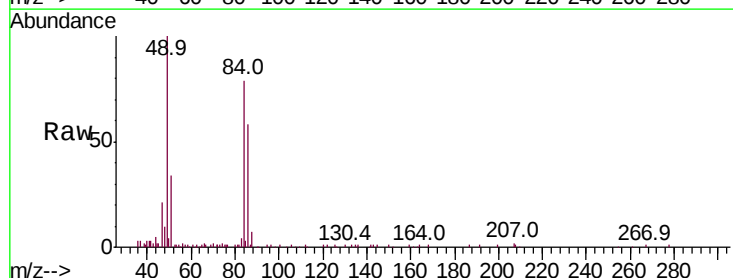
Delta R.T. 0.01 min

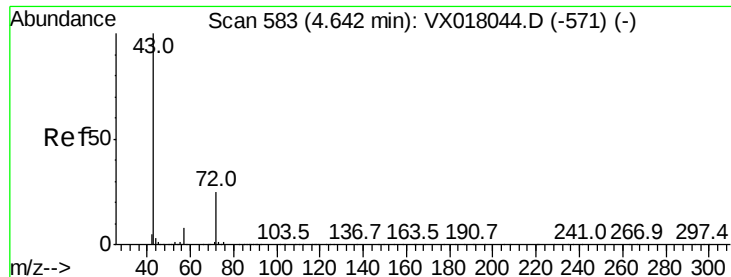
Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

Tgt Ion: 84 Resp: 21644

Ion	Ratio	Lower	Upper
84	100		
49	125.5	98.6	148.0
51	42.1	29.6	44.4
86	73.1	49.8	74.6





#25

2-Butanone

Concen: 0.404 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

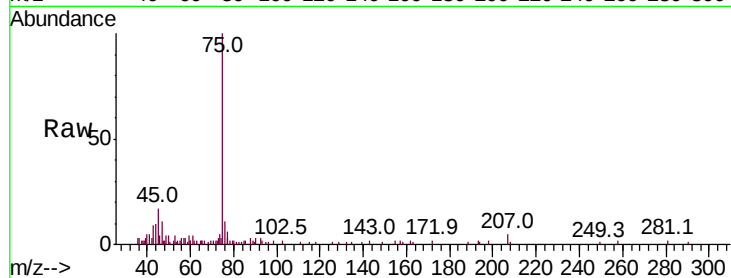
BU-03-090420

Tot Ion: 43 Resp: 1586

Ion Ratio Lower Upper

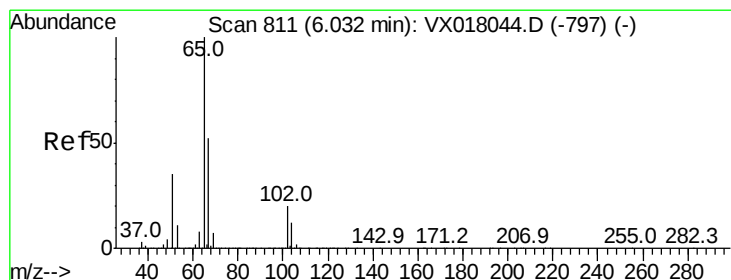
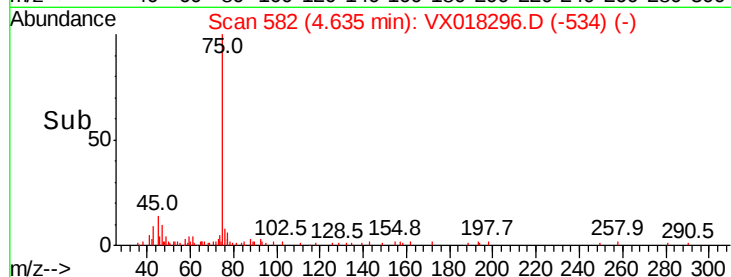
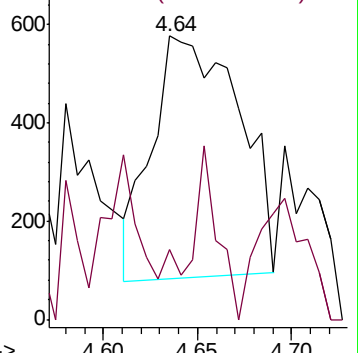
43 100

72 25.1 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.895 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX018296.D

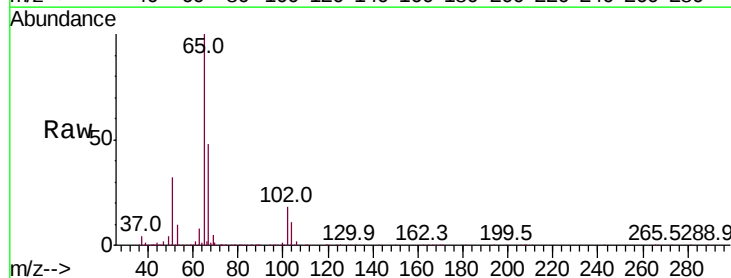
Acq: 09 Sep 2020 00:22

Tgt Ion: 65 Resp: 324013

Ion Ratio Lower Upper

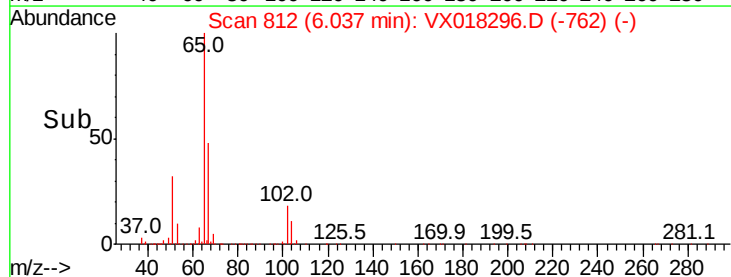
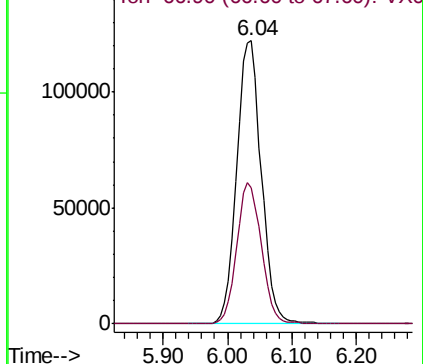
65 100

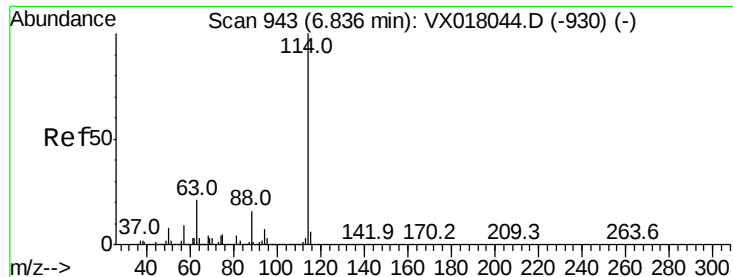
67 49.7 0.0 105.8



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: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

BU-03-090420

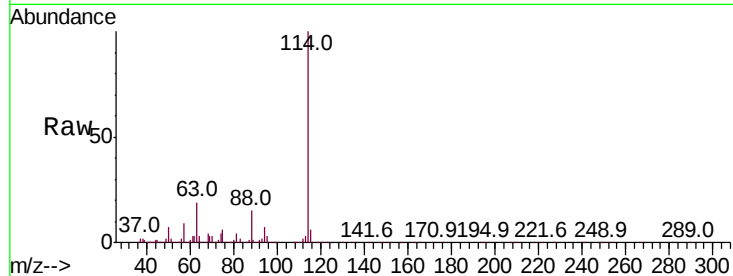
Tot Ion:114 Resp: 725015

Ion Ratio Lower Upper

114 100

63 19.2 0.0 42.6

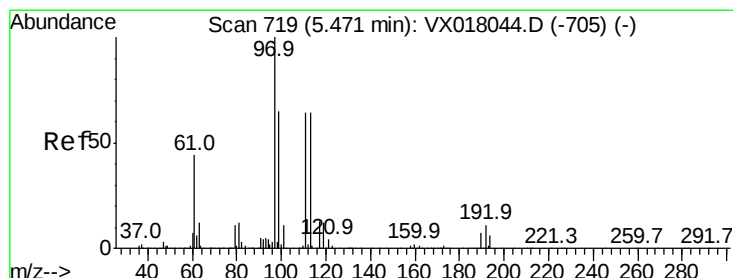
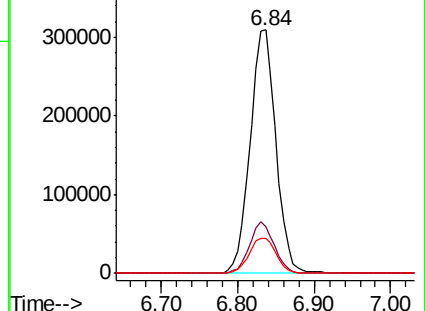
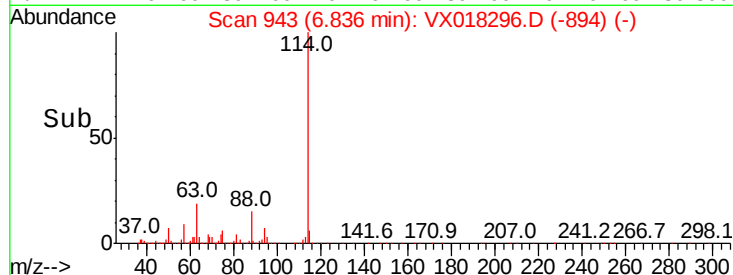
88 14.5 0.0 31.8



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: 50.432 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

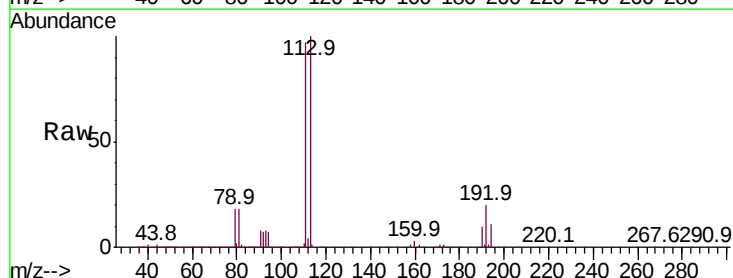
Tgt Ion:113 Resp: 249020

Ion Ratio Lower Upper

113 100

111 101.6 81.6 122.4

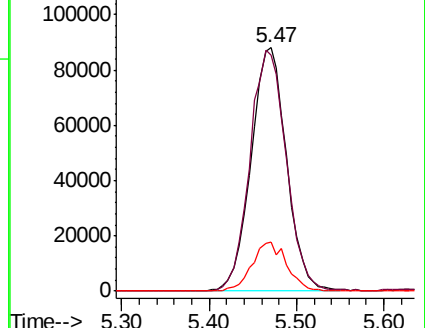
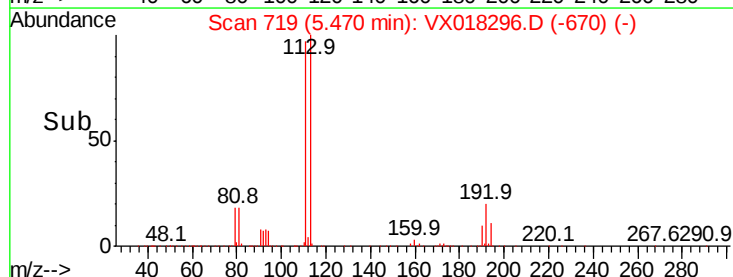
192 19.7 15.8 23.8

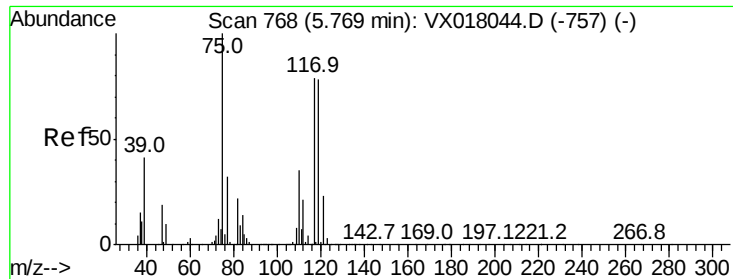


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.062 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

BU-03-090420

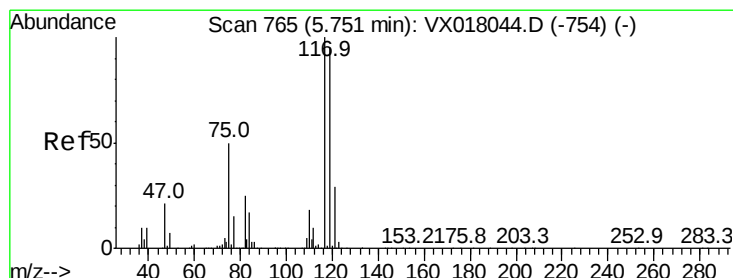
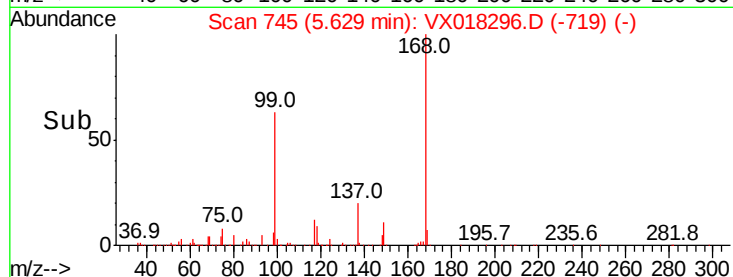
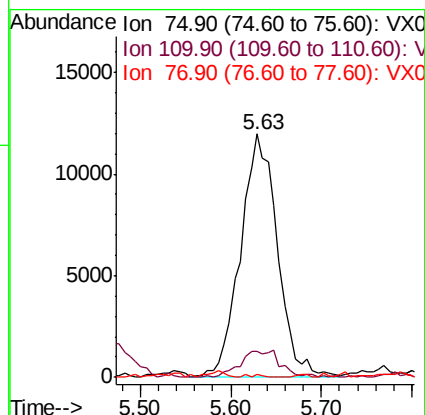
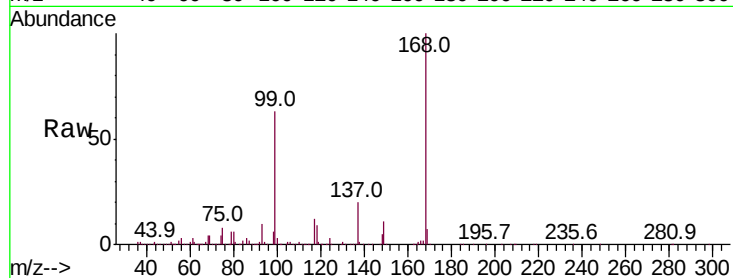
Tot Ion: 75 Resp: 33852

Ion Ratio Lower Upper

75 100

110 0.0 18.0 54.0#

77 0.2 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.320 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

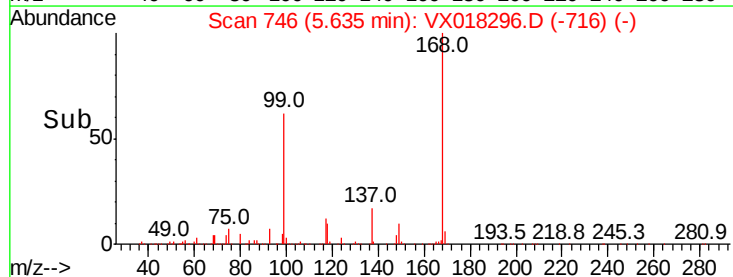
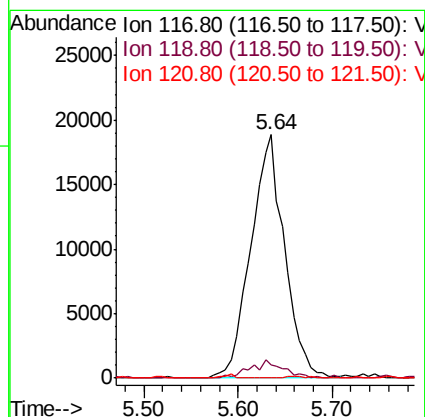
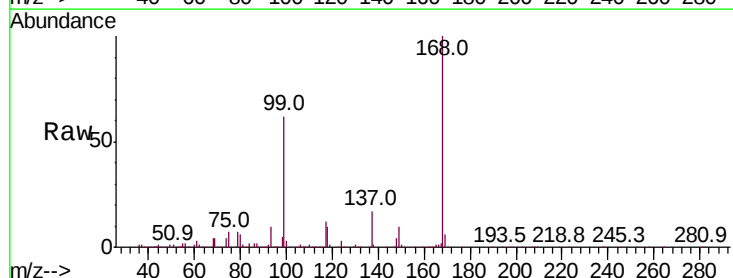
Tgt Ion: 117 Resp: 47631

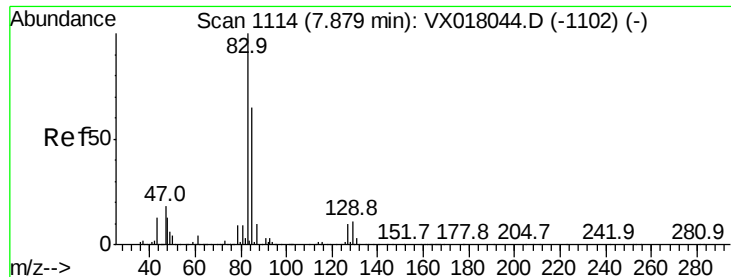
Ion Ratio Lower Upper

117 100

119 5.5 75.8 113.6#

121 0.0 23.4 35.0#





#47

Bromodichloromethane

Concen: 0.202 ug/l

RT: 7.89 min Scan# 1116

Delta R.T. 0.01 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

BU-03-090420

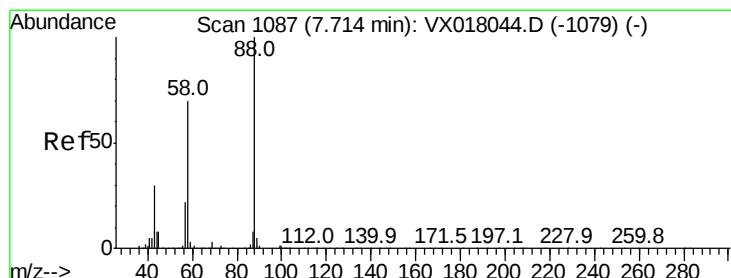
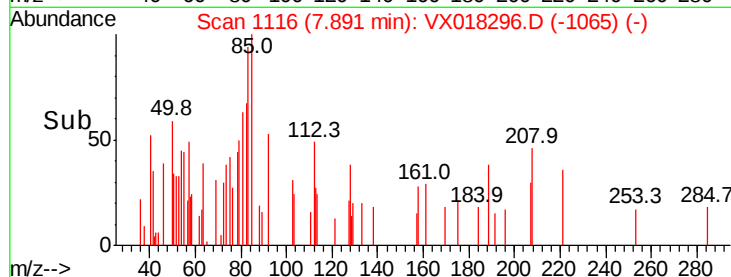
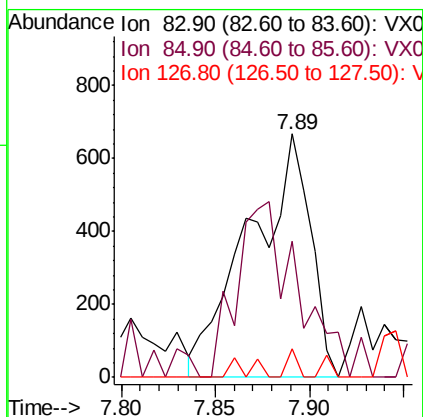
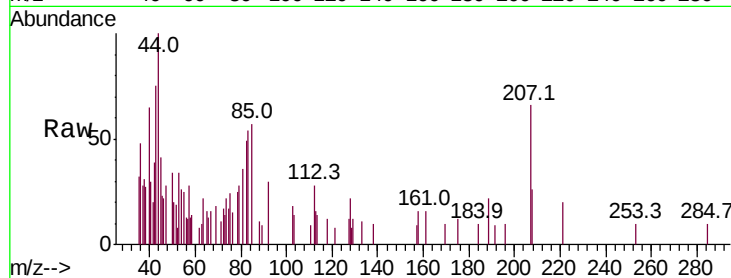
Tot Ion: 83 Resp: 1499

Ion Ratio Lower Upper

83 100

85 46.6 51.8 77.6#

127 11.5 7.7 11.5#



#49

1,4-Dioxane

Concen: 0.504 ug/l

RT: 7.70 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

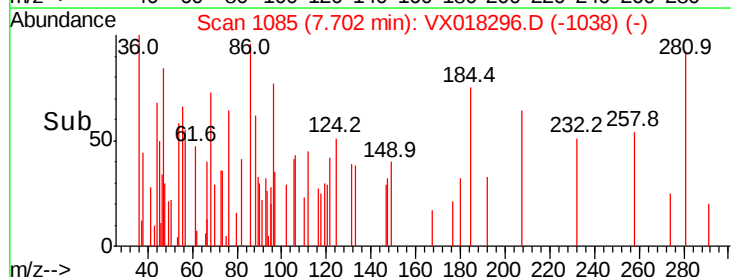
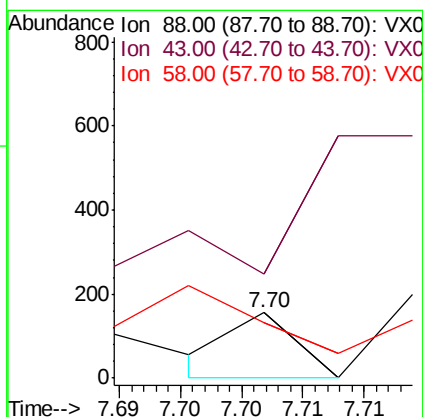
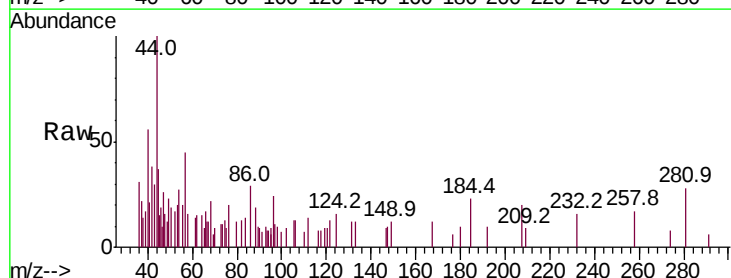
Tgt Ion: 88 Resp: 57

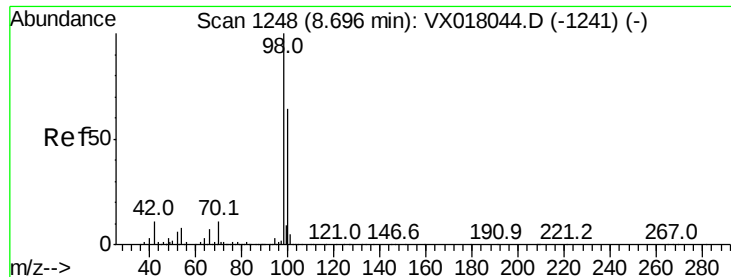
Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

58 464.9 56.4 84.6#





#50

Toluene-d8

Concen: 47.350 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

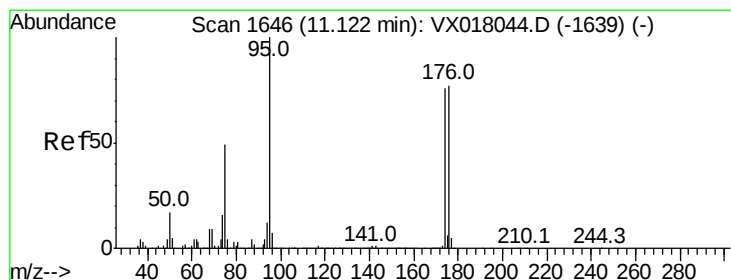
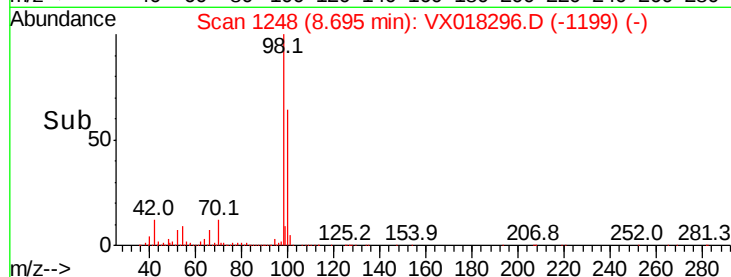
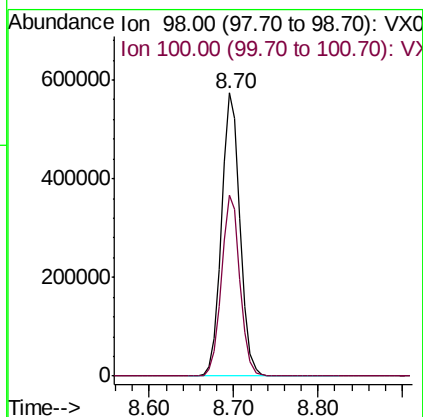
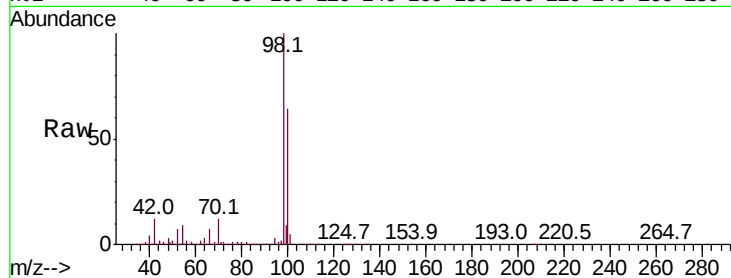
BU-03-090420

Tot Ion: 98 Resp: 870796

Ion Ratio Lower Upper

98 100

100 63.8 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 45.033 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

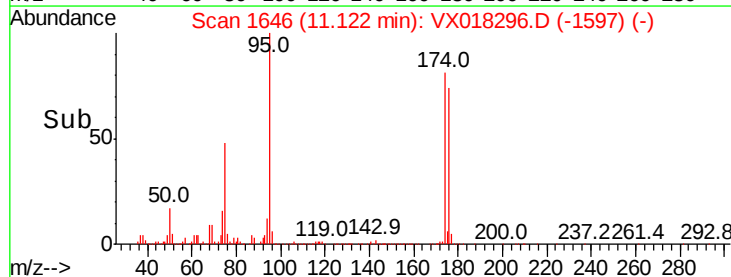
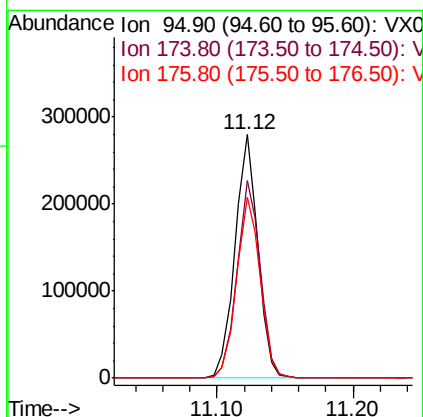
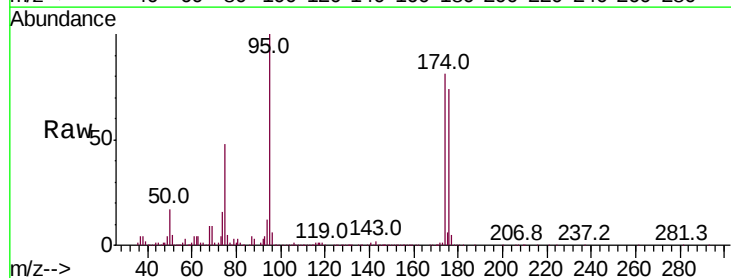
Tgt Ion: 95 Resp: 325843

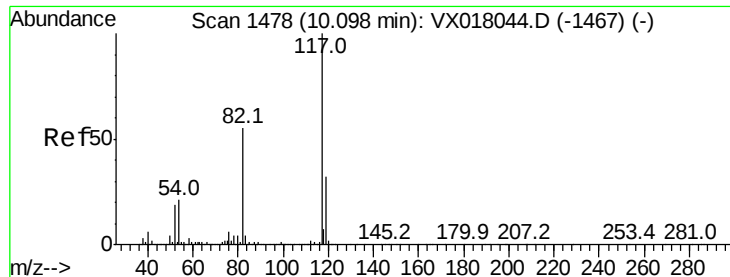
Ion Ratio Lower Upper

95 100

174 82.9 0.0 160.2

176 77.1 0.0 155.8

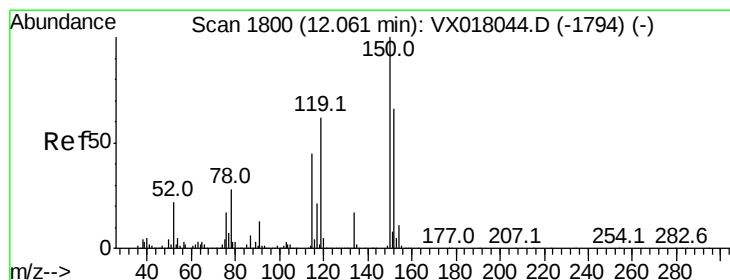
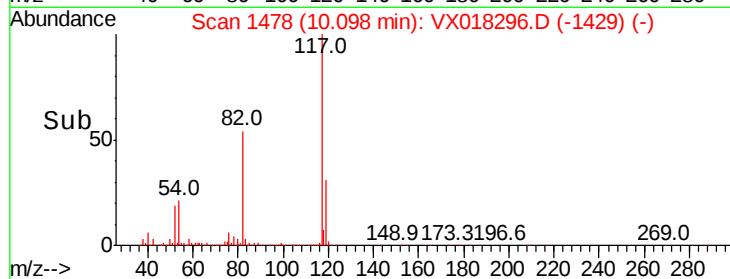
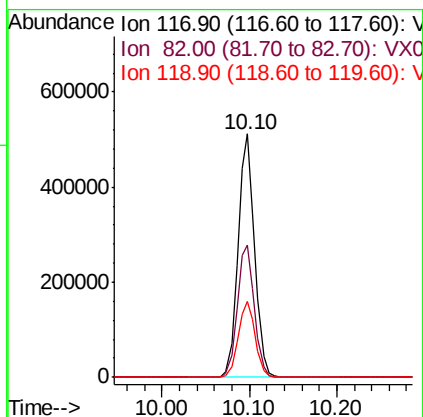
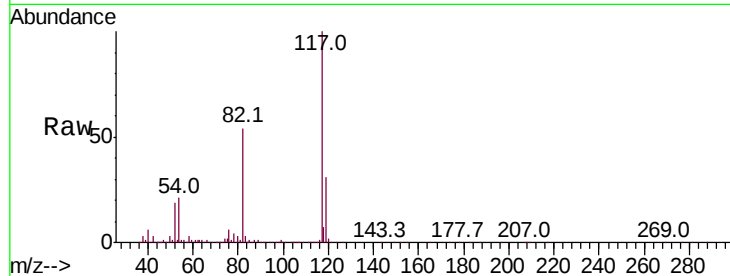




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018296.D
Acq: 09 Sep 2020 00:22

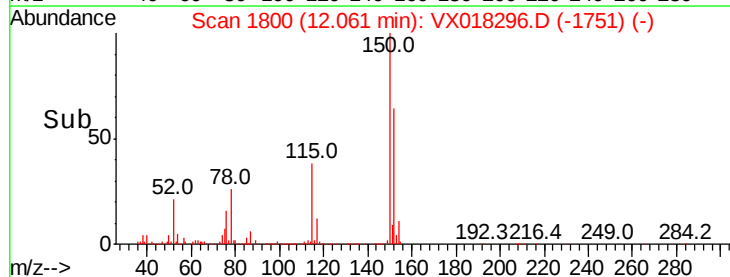
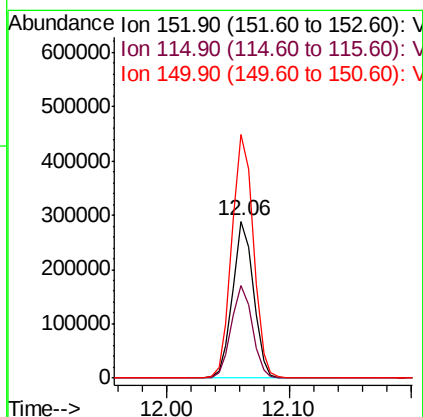
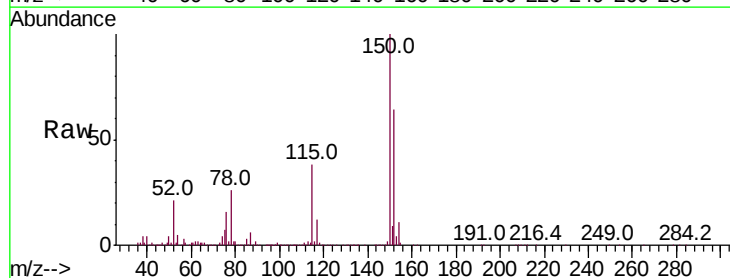
Instrument :
MSVOA_X
ClientSampleId :
BU-03-090420

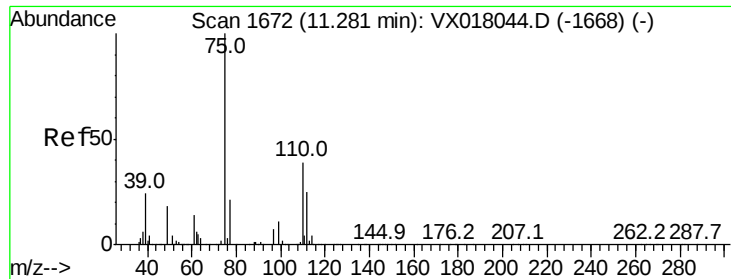
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.2	44.2	66.2
119	31.2	25.7	38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX018296.D
Acq: 09 Sep 2020 00:22

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.0	41.5	124.5
150	158.9	0.0	343.8

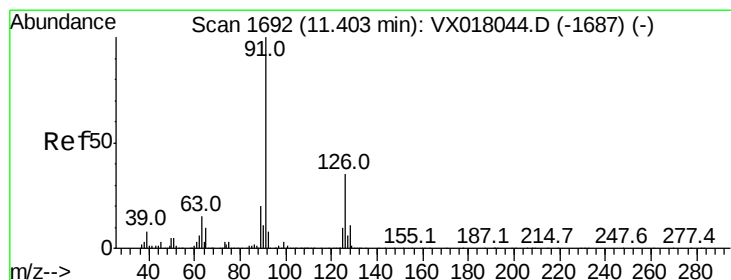
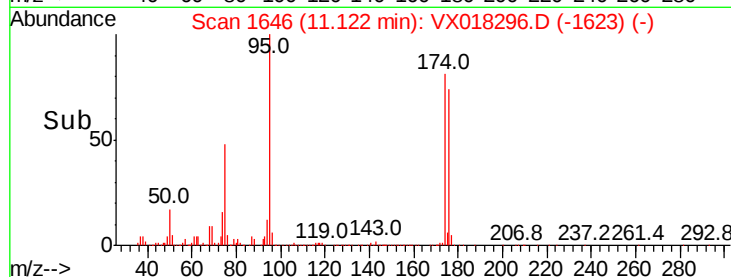
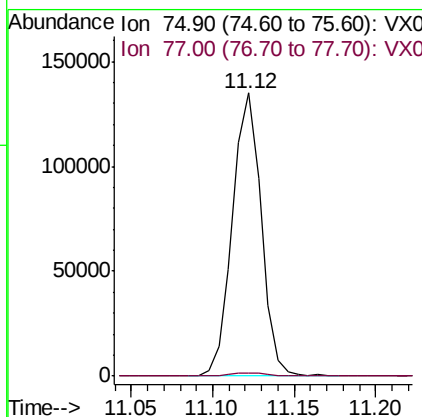
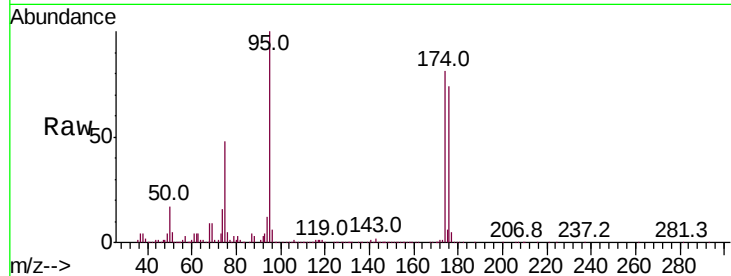




#76
 1,2,3-Trichloropropane
 Concen: 21.974 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX018296.D
 Acq: 09 Sep 2020 00:22

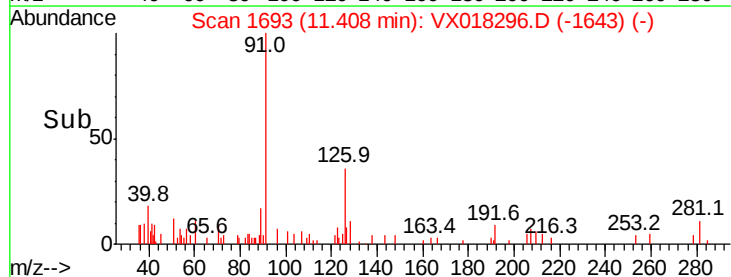
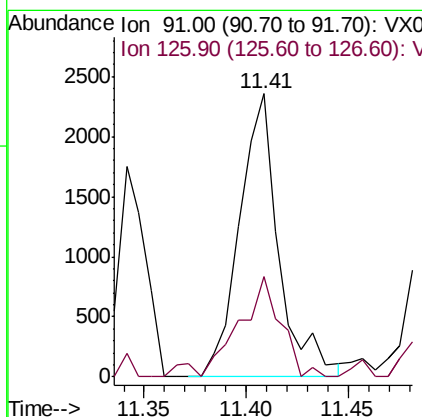
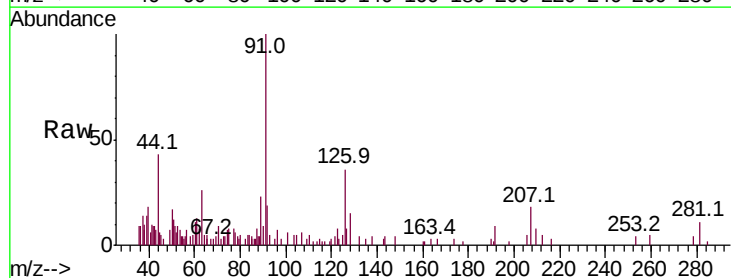
Instrument :
 MSVOA_X
 ClientSampleId :
 BU-03-090420

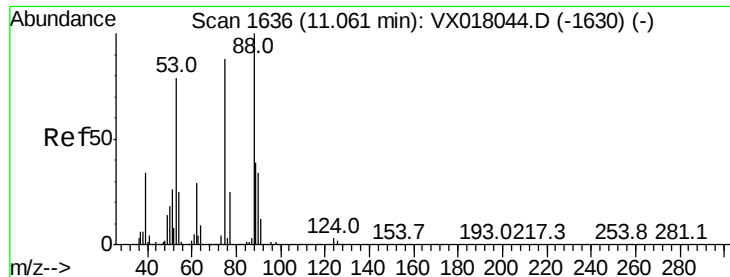
Tot Ion: 75 Resp: 166410
 Ion Ratio Lower Upper
 75 100
 77 1.5 20.8 62.2#



#79
 2-Chlorotoluene
 Concen: 0.200 ug/l
 RT: 11.41 min Scan# 1693
 Delta R.T. 0.01 min
 Lab File: VX018296.D
 Acq: 09 Sep 2020 00:22

Tgt Ion: 91 Resp: 3157
 Ion Ratio Lower Upper
 91 100
 126 39.2 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 59.348 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

Instrument :

MSVOA_X

ClientSampleId :

BU-03-090420

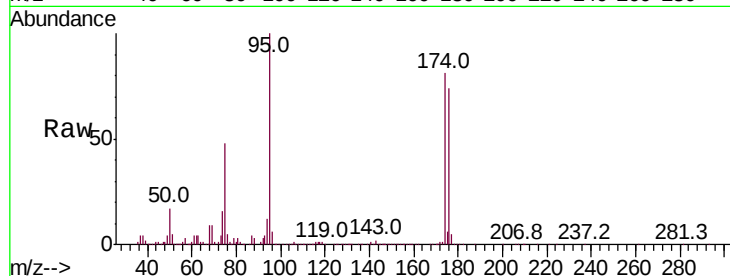
Tot Ion: 75 Resp: 166410

Ion Ratio Lower Upper

75 100

53 0.2 74.7 112.1#

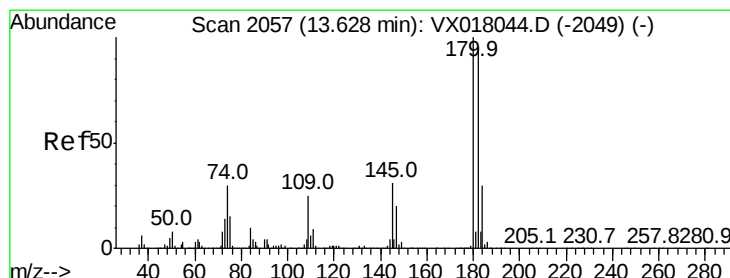
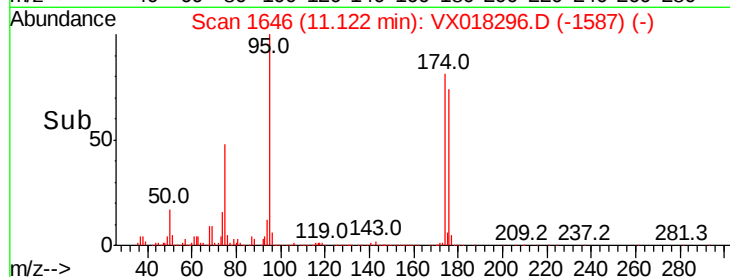
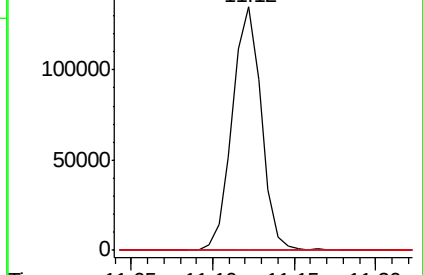
89 0.0 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#93

1,2,4-Trichlorobenzene

Concen: 0.238 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

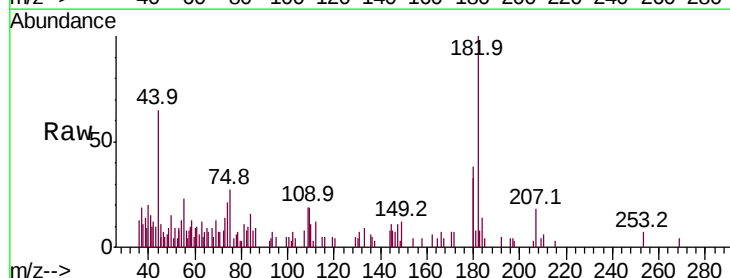
Tgt Ion: 180 Resp: 1629

Ion Ratio Lower Upper

180 100

182 118.5 47.5 142.6

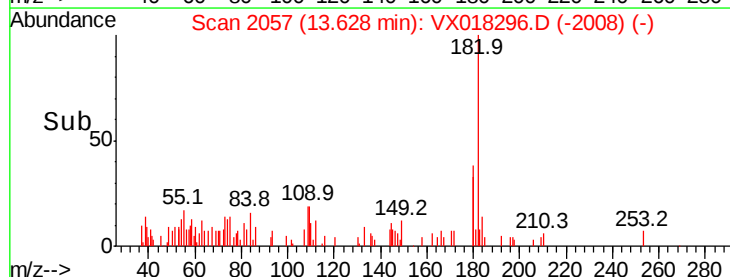
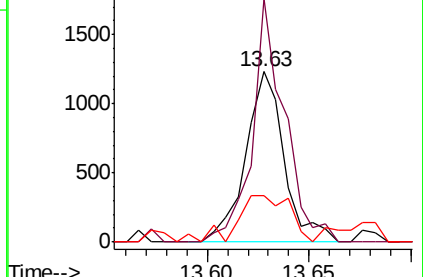
145 37.4 15.7 47.1

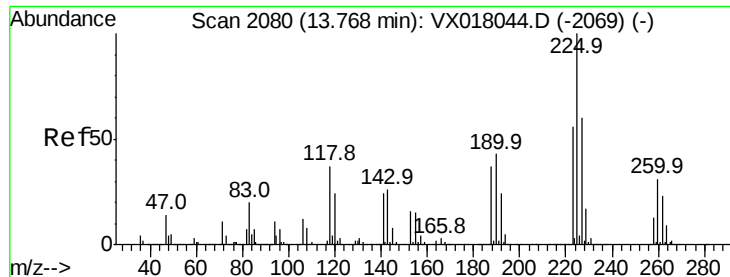


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.339 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

Instrument :

MSVOA_X

ClientSampled :

BU-03-090420

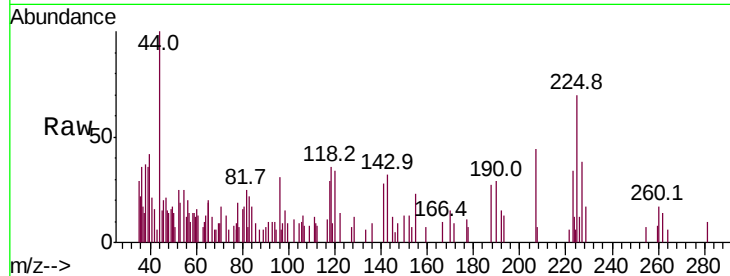
Tot Ion:225 Resp: 914

Ion Ratio Lower Upper

225 100

223 54.2 30.7 92.1

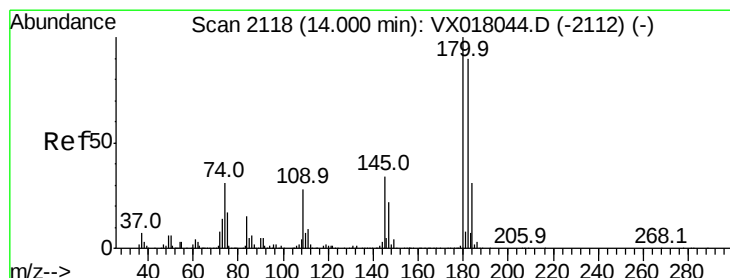
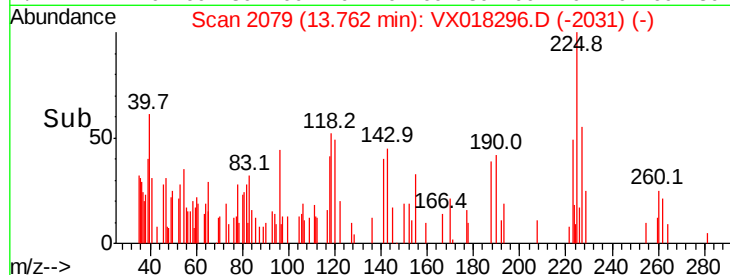
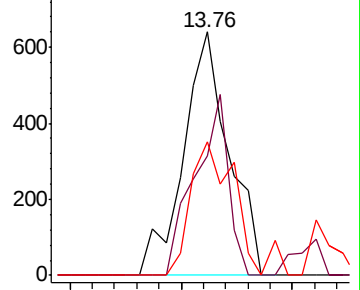
227 50.9 32.6 97.8



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.201 ug/l

RT: 14.00 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VX018296.D

Acq: 09 Sep 2020 00:22

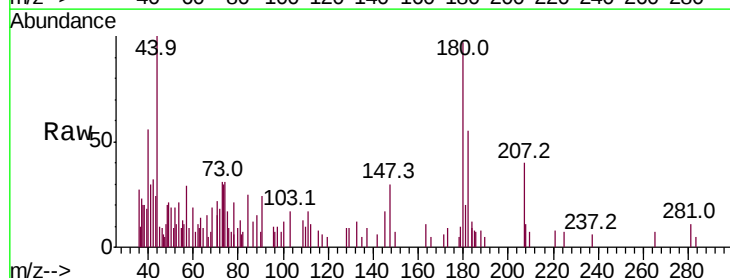
Tgt Ion:180 Resp: 1361

Ion Ratio Lower Upper

180 100

182 75.0 47.3 142.0

145 41.4 17.5 52.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

