

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101220\
 Data File : VX018919.D
 Acq On : 12 Oct 2020 21:17
 Operator : JC/SP
 Sample : L4276-03RE
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
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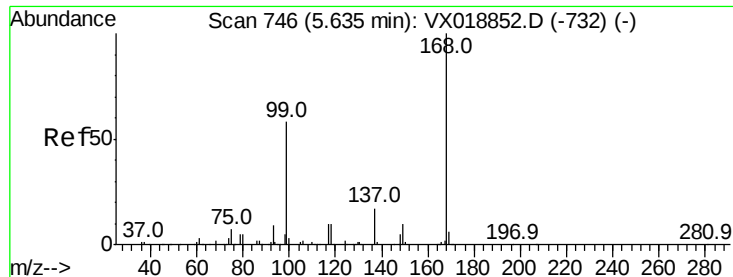
Quant Time: Oct 13 04:10:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100920W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 10 06:09:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	248568	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	384070	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	390672	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	197706	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	194834	53.14	ug/l	0.00
Spiked Amount			Recovery	=	106.28%	
35) Dibromofluoromethane	5.46	113	144296	52.72	ug/l	0.00
Spiked Amount			Recovery	=	105.44%	
50) Toluene-d8	8.70	98	493959	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	
62) 4-Bromofluorobenzene	11.12	95	178468	47.16	ug/l	0.00
Spiked Amount			Recovery	=	94.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.23	85	47	1.634	ug/l #	43
3) Chloromethane	1.31	50	986	0.423	ug/l	95
8) Diethyl Ether	2.17	74	64	1.074	ug/l #	1
10) Methyl Iodide	2.49	142	46	4.008	ug/l #	34
11) Tert butyl alcohol	3.00	59	2961	5.128	ug/l #	80
12) 1,1-Dichloroethene	2.36	96	25	0.716	ug/l #	1
13) Acrolein	2.26	56	274	0.570	ug/l #	76
16) Acetone	2.42	43	16705	7.032	ug/l #	88
20) Methylene Chloride	2.84	84	2083	1.292	ug/l #	80
25) 2-Butanone	4.64	43	6450	3.248	ug/l	94
28) Bromochloromethane	4.98	49	101	1.566	ug/l #	8
29) Tetrahydrofuran	5.10	42	1404	1.318	ug/l #	77
31) Cyclohexane	5.64	56	5734	1.675	ug/l #	49
36) 1,1-Dichloropropene	5.64	75	20058	4.967	ug/l #	51
38) Carbon Tetrachloride	5.64	117	25975	5.190	ug/l #	20
49) 1,4-Dioxane	7.70	88	33	0.716	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	2353	0.622	ug/l	99
52) Toluene	8.77	92	2701	0.388	ug/l	95
56) Ethyl methacrylate	9.14	69	73	2.950	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	91870	21.566	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	91870	61.117	ug/l #	8
95) Naphthalene	13.82	128	221	3.092	ug/l #	77

(#) = 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: VX018919.D

Acq: 12 Oct 2020 21:17

Instrument :

MSVOA_X

ClientSampled :

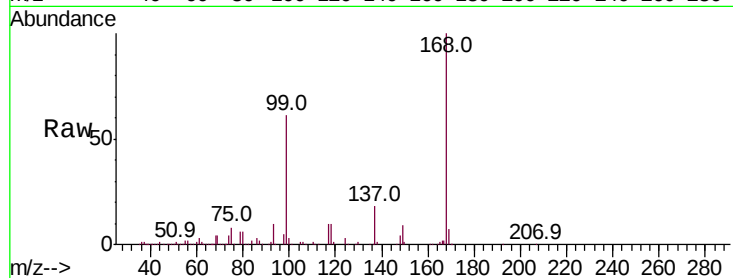
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Tot Ion:168 Resp: 248568

Ion Ratio Lower Upper

168 100

99 61.0 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

60000

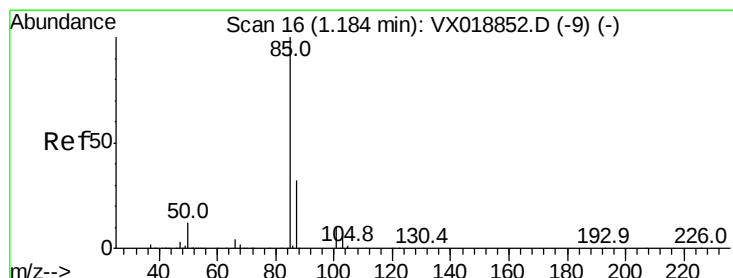
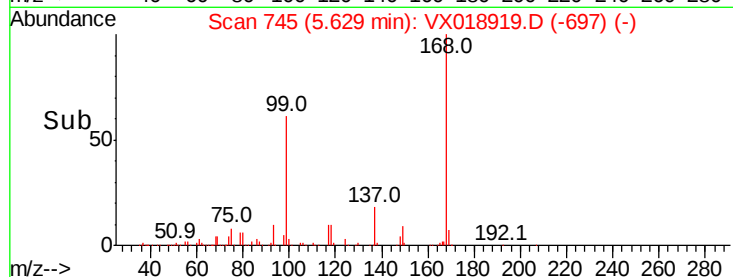
40000

20000

0

5.50 5.60 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 1.634 ug/l

RT: 1.23 min Scan# 24

Delta R.T. 0.05 min

Lab File: VX018919.D

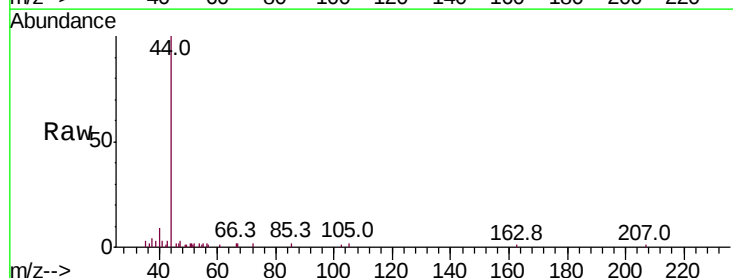
Acq: 12 Oct 2020 21:17

Tgt Ion: 85 Resp: 47

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

80

60

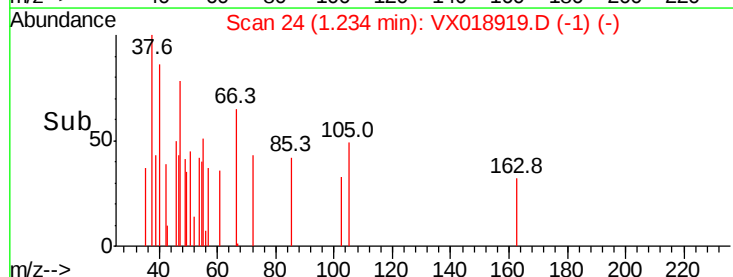
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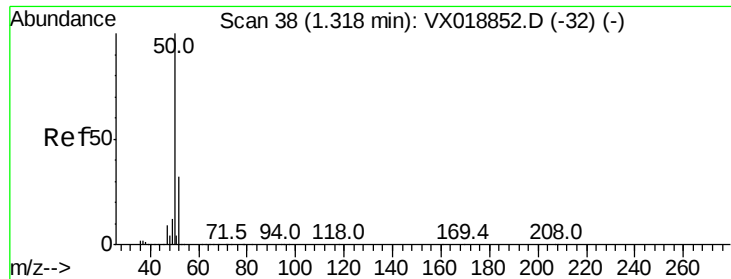
20

0

1.22 1.24

Time-->





#3

Chloromethane

Concen: 0.423 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.01 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

Instrument :

MSVOA_X

ClientSampleId :

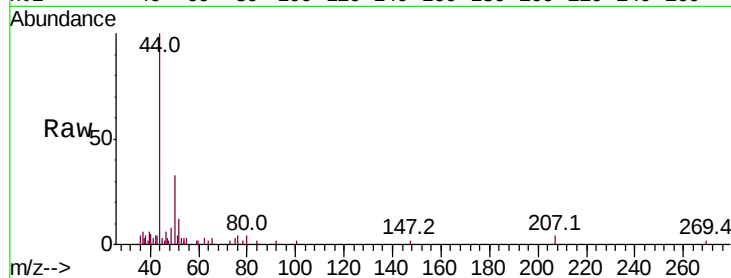
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Tot Ion: 50 Resp: 986

Ion Ratio Lower Upper

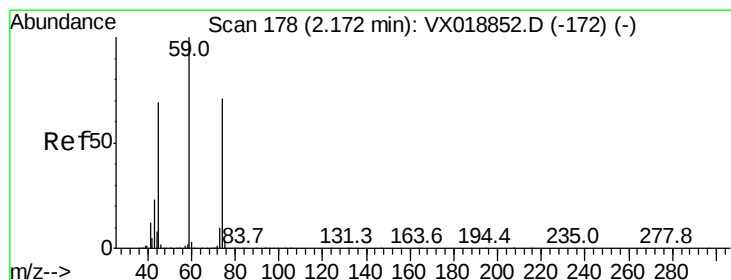
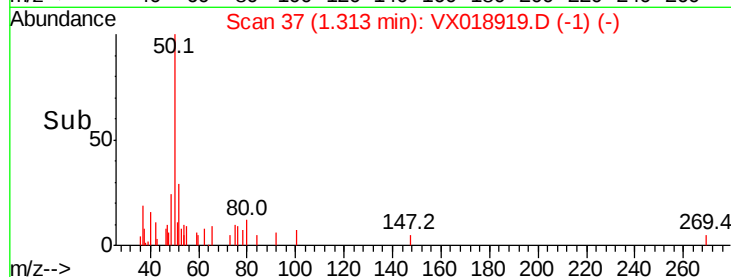
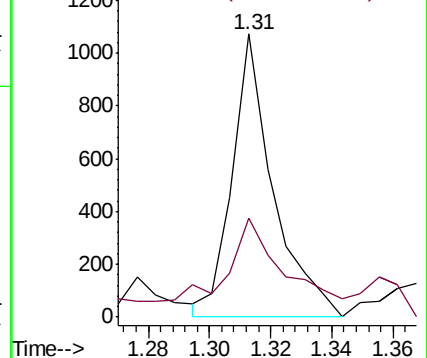
50 100

52 28.8 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#8

Diethyl Ether

Concen: 1.074 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.00 min

Lab File: VX018919.D

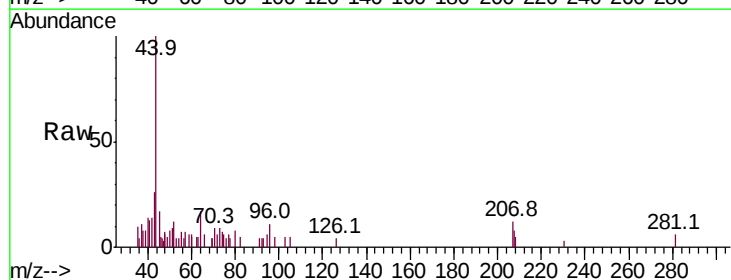
Acq: 12 Oct 2020 21:17

Tgt Ion: 74 Resp: 64

Ion Ratio Lower Upper

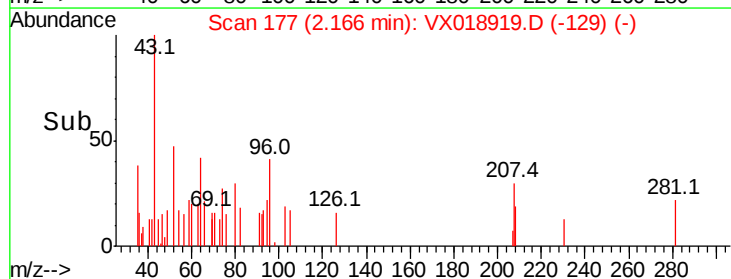
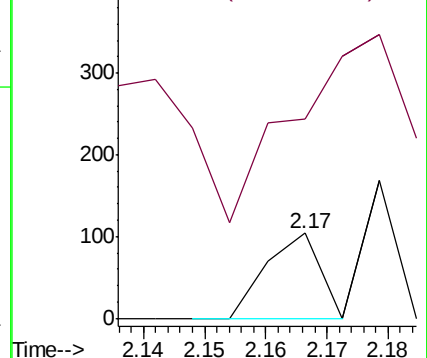
74 100

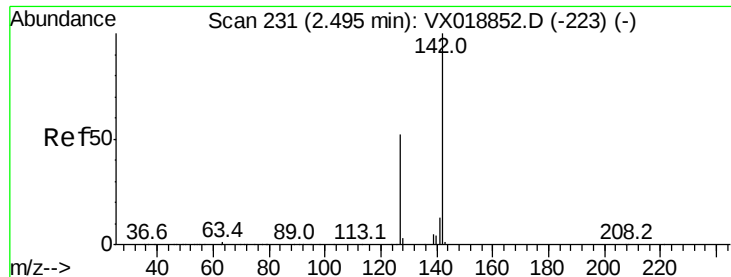
45 771.9 47.0 141.2#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

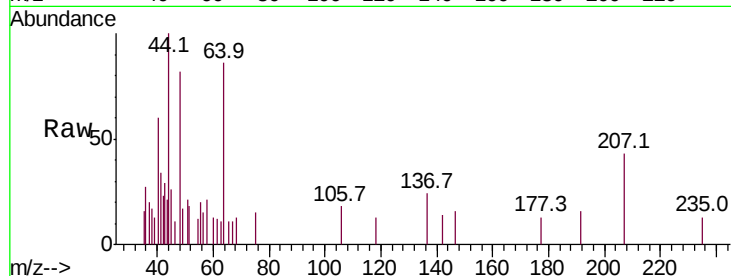




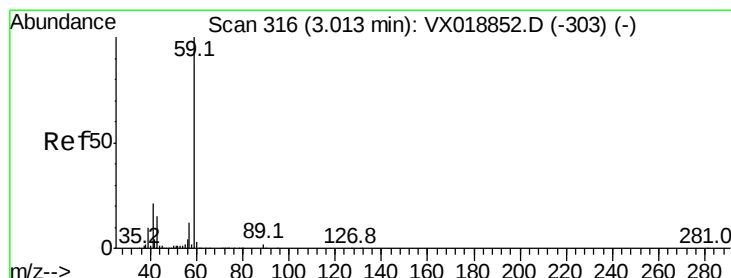
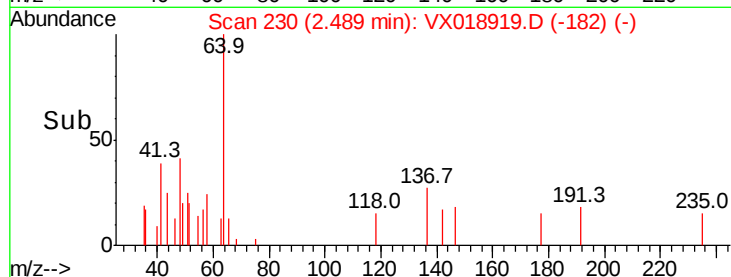
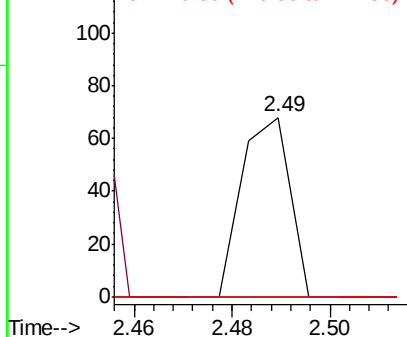
#10
Methvl Iodide
Concen: 4.008 ug/l
RT: 2.49 min Scan# 230
Delta R.T. -0.01 min
Lab File: VX018919.D
Acq: 12 Oct 2020 21:17

Instrument :
MSVOA_X
ClientSampleId :
FIELD-BLANK

Tot Ion:142 Resp: 46
Ion Ratio Lower Upper
142 100
127 0.0 42.0 63.0#
141 0.0 11.8 17.6#

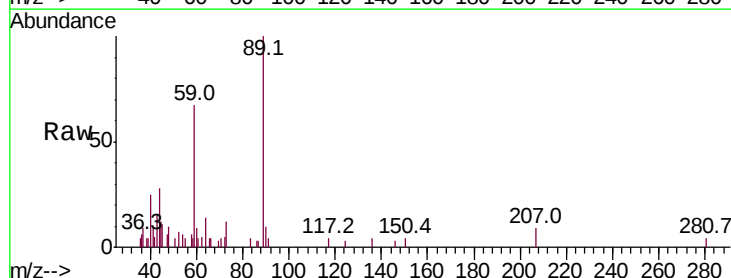


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

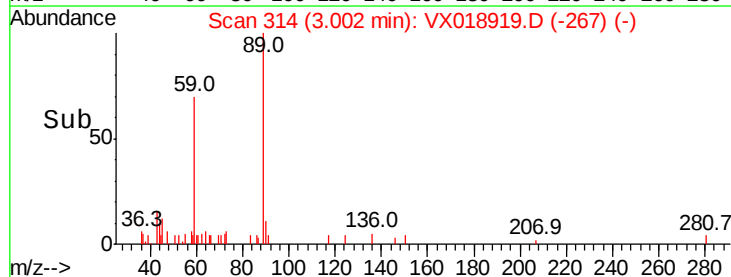
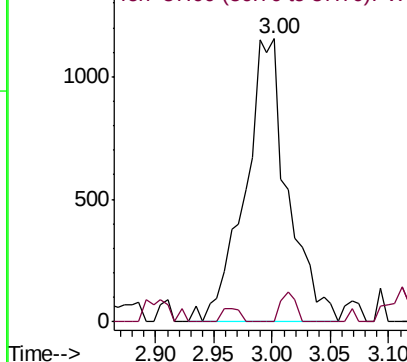


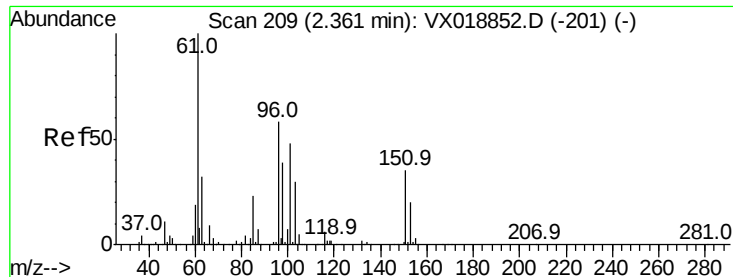
#11
Tert butyl alcohol
Concen: 5.128 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX018919.D
Acq: 12 Oct 2020 21:17

Tgt Ion: 59 Resp: 2961
Ion Ratio Lower Upper
59 100
57 3.6 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.716 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.00 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

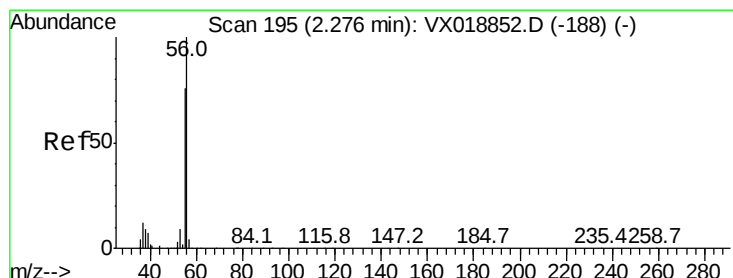
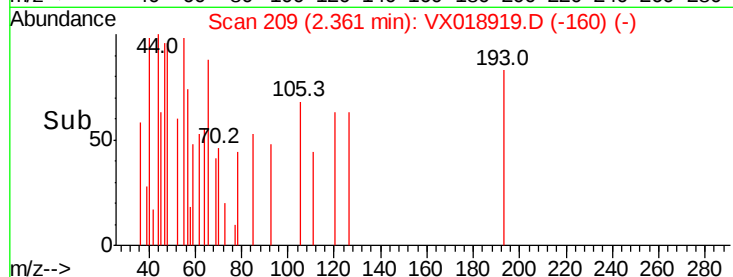
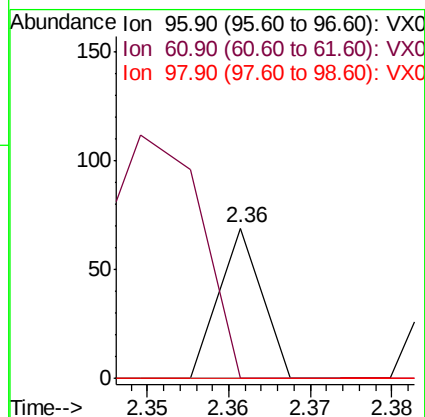
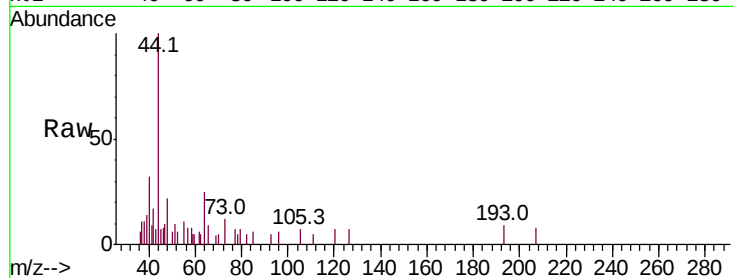
Instrument :

MSVOA_X

ClientSampled :

FIELD-BLANK

Tot Ion:	96	Resp:	25
Ion	Ratio	Lower	Upper
96	100		
61	0.0	137.0	205.6#
98	0.0	53.9	80.9#



#13

Acrolein

Concen: 0.570 ug/l

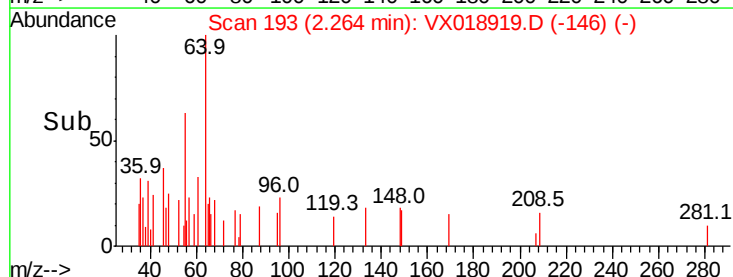
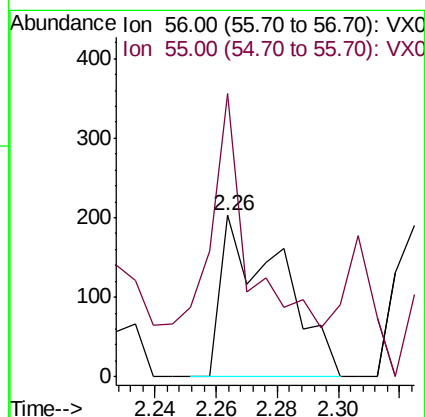
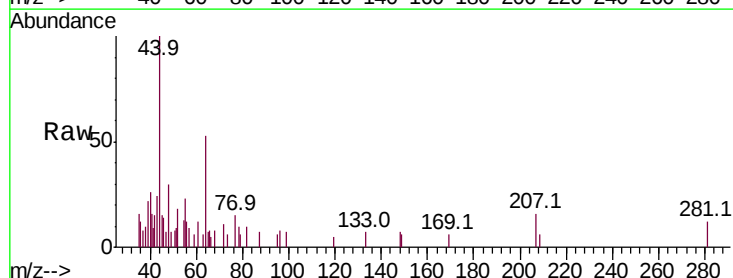
RT: 2.26 min Scan# 193

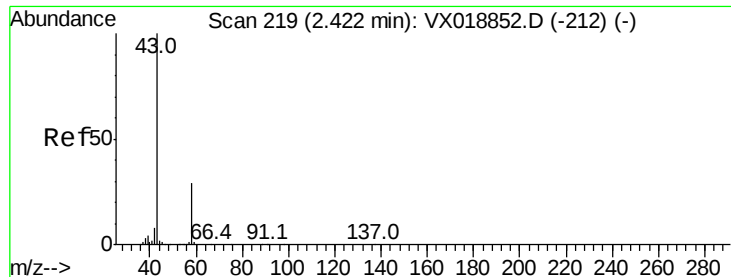
Delta R.T. -0.01 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

Tgt Ion:	56	Resp:	274
Ion	Ratio	Lower	Upper
56	100		
55	93.4	58.6	87.8#





#16

Acetone

Concen: 7.032 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

Instrument :

MSVOA_X

ClientSampleId :

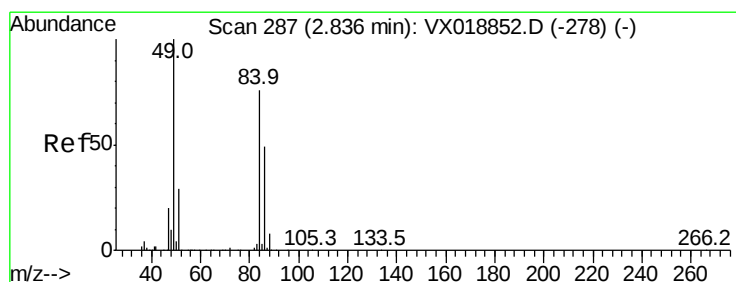
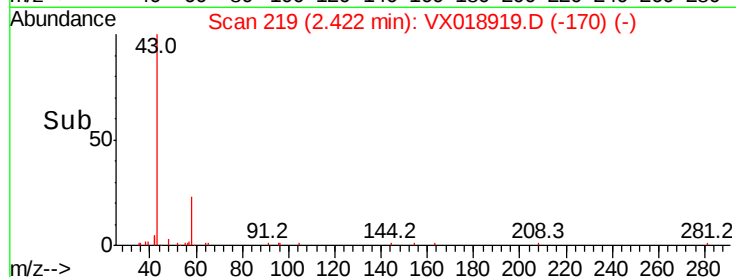
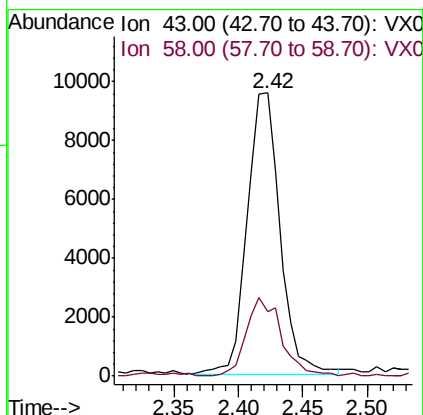
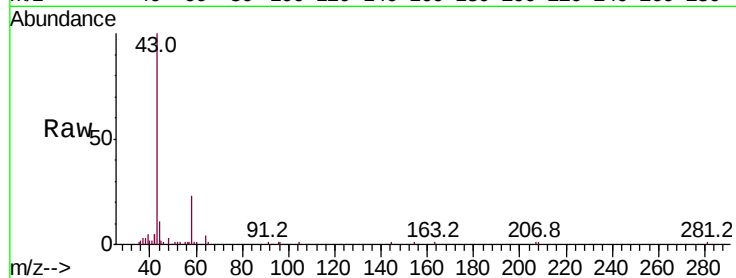
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Tot Ion: 43 Resp: 16705

Ion Ratio Lower Upper

43 100

58 22.5 23.0 34.4#



#20

Methylene Chloride

Concen: 1.292 ug/l

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

Tgt Ion: 84 Resp: 2083

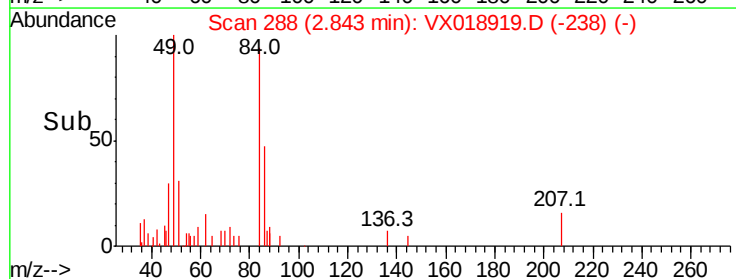
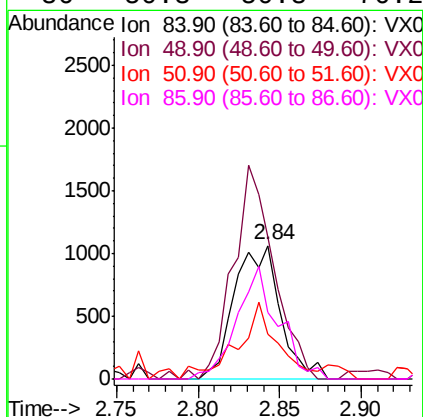
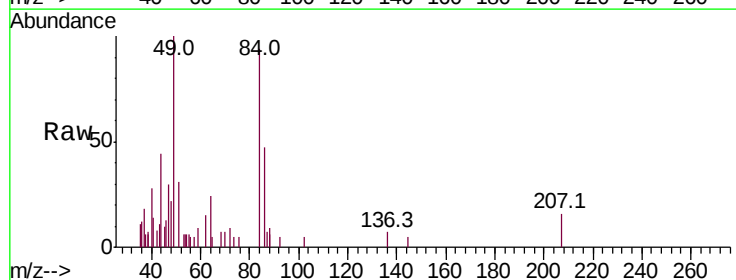
Ion Ratio Lower Upper

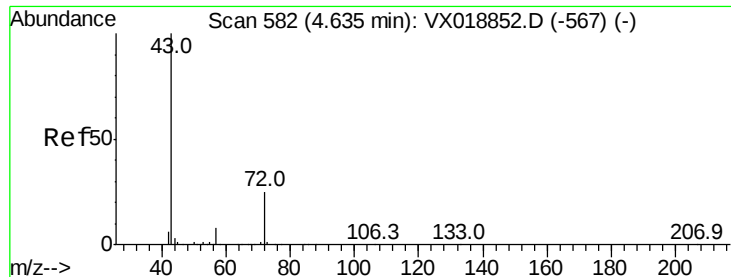
84 100

49 106.7 104.8 157.2

51 24.0 30.6 46.0#

86 50.3 50.8 76.2#





#25

2-Butanone

Concen: 3.248 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

Instrument :

MSVOA_X

ClientSampleId :

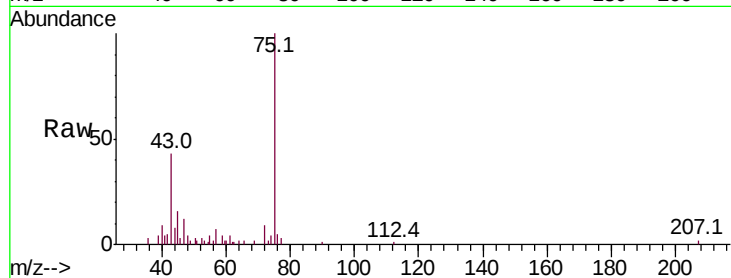
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Tot Ion: 43 Resp: 6450

Ion Ratio Lower Upper

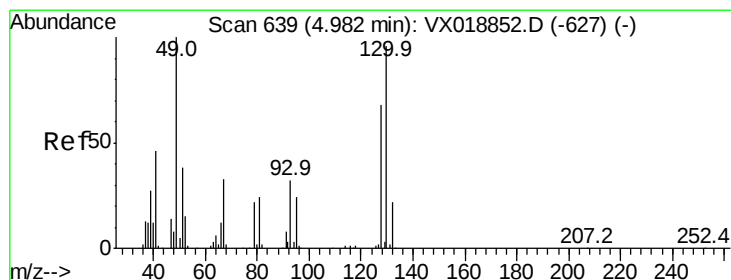
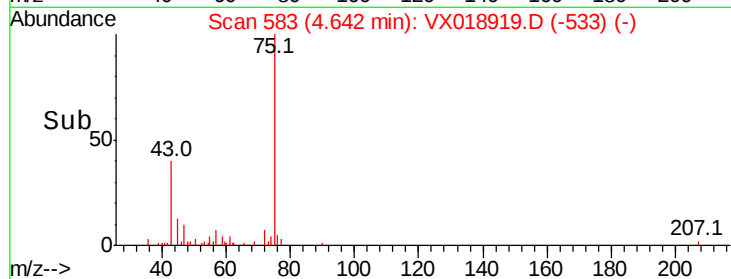
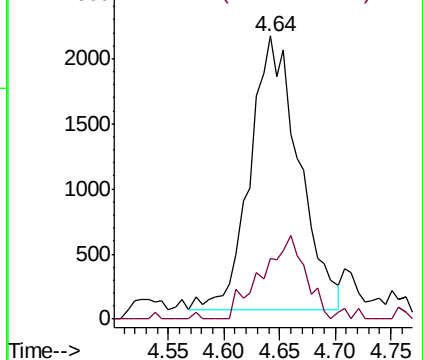
43 100

72 22.2 20.2 30.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: 1.566 ug/l

RT: 4.98 min Scan# 638

Delta R.T. -0.01 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

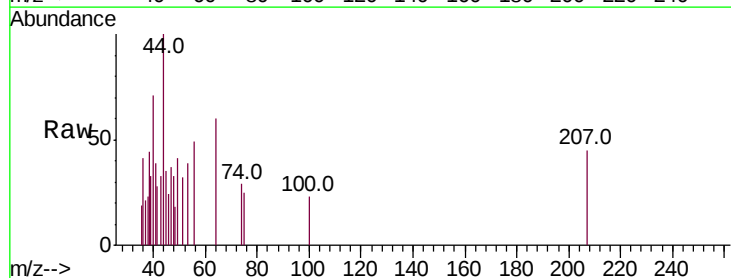
Tgt Ion: 49 Resp: 101

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

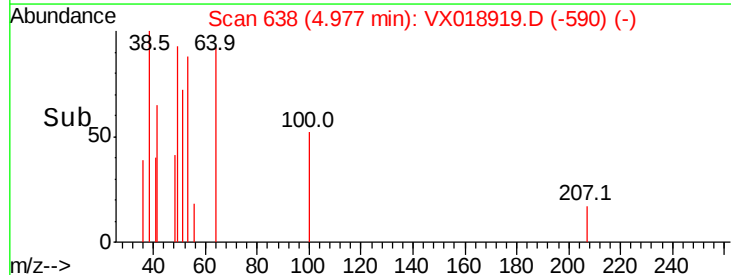
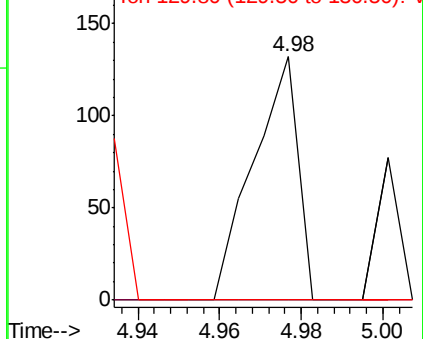
130 0.0 71.2 106.8#

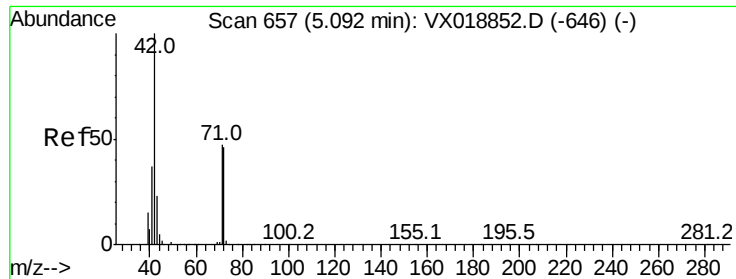


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

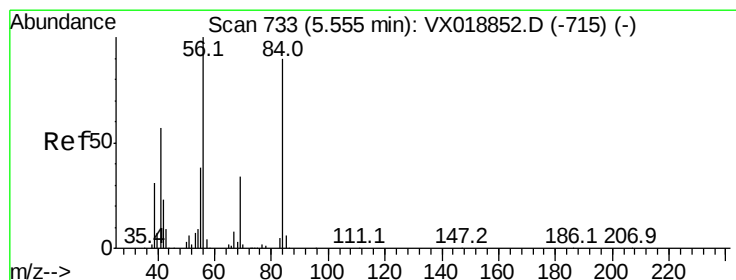
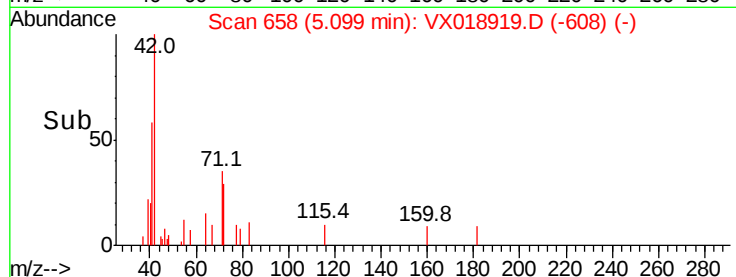
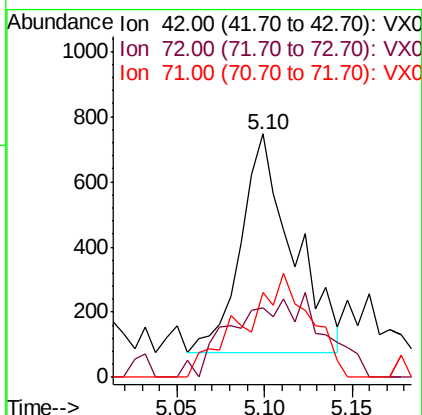
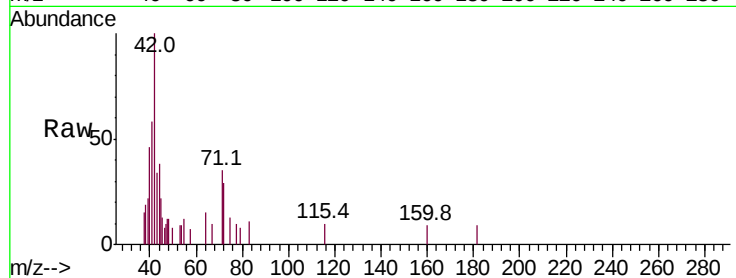




#29
Tetrahydrofuran
Concen: 1.318 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX018919.D
Acq: 12 Oct 2020 21:17

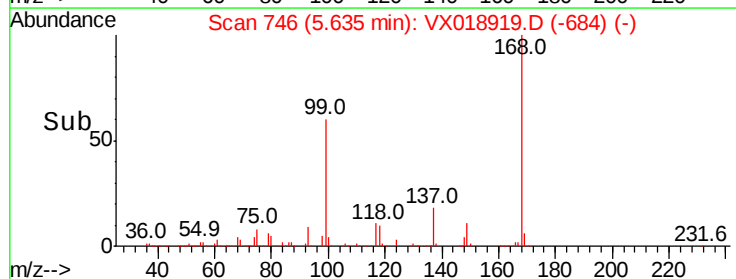
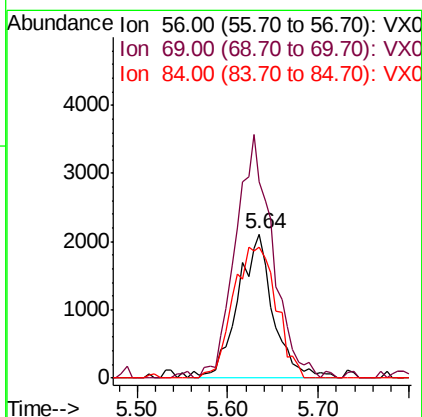
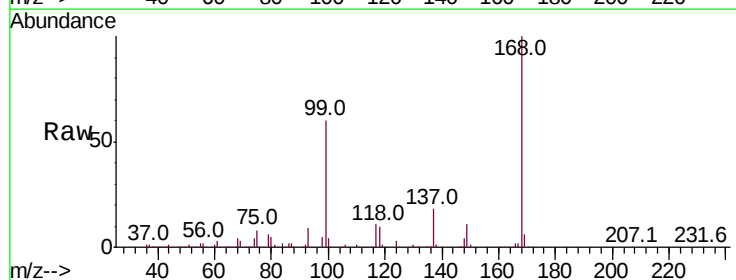
Instrument :
MSVOA_X
ClientSampled :
FIELD-BLANK

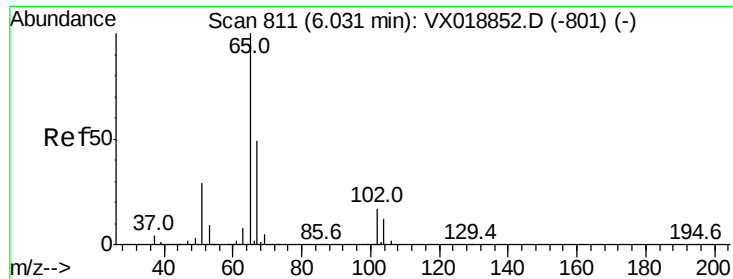
Tot Ion: 42 Resp: 1404
Ion Ratio Lower Upper
42 100
72 32.0 36.4 54.6#
71 61.0 35.2 52.8#



#31
Cyclohexane
Concen: 1.675 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.08 min
Lab File: VX018919.D
Acq: 12 Oct 2020 21:17

Tgt Ion: 56 Resp: 5734
Ion Ratio Lower Upper
56 100
69 136.6 27.1 40.7#
84 91.3 71.7 107.5

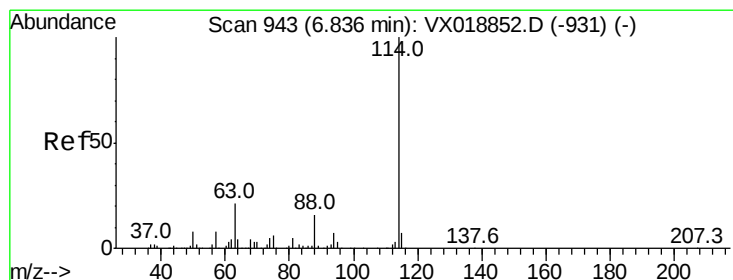
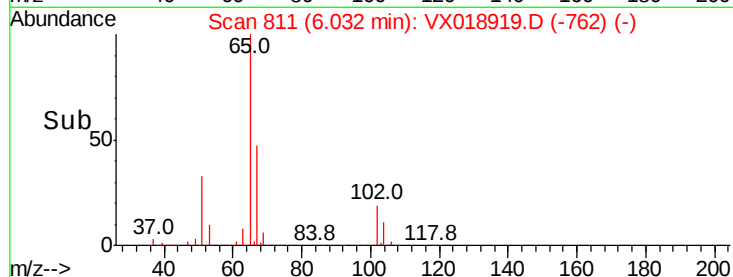
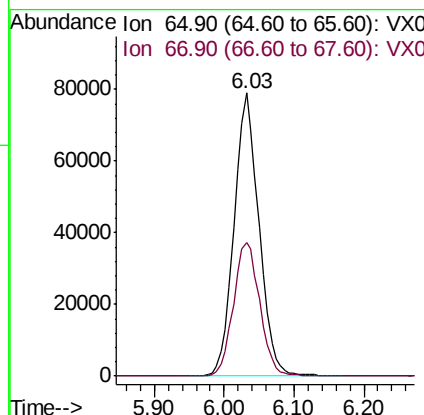
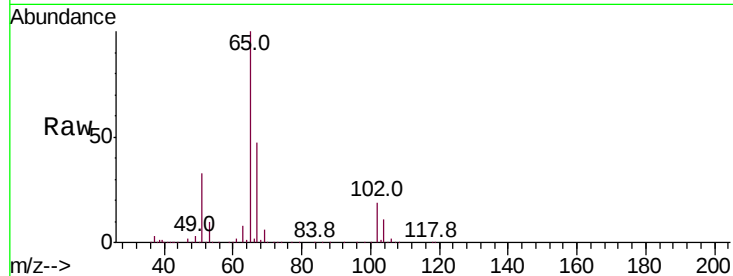




#33
 1,2-Dichloroethane-d4
 Concen: 53.144 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VX018919.D
 Acq: 12 Oct 2020 21:17

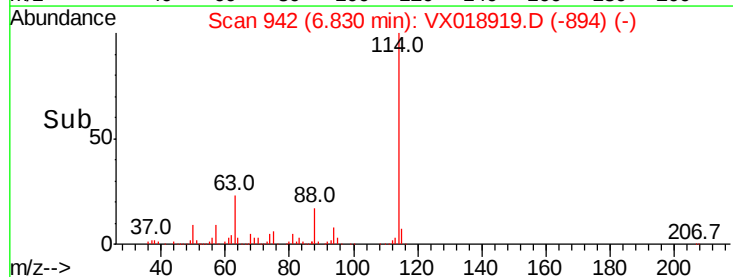
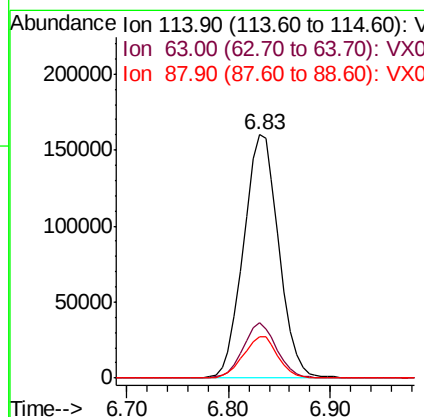
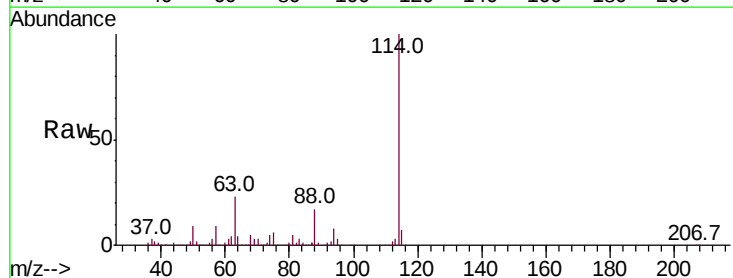
Instrument :
 MSVOA_X
 ClientSampleId :
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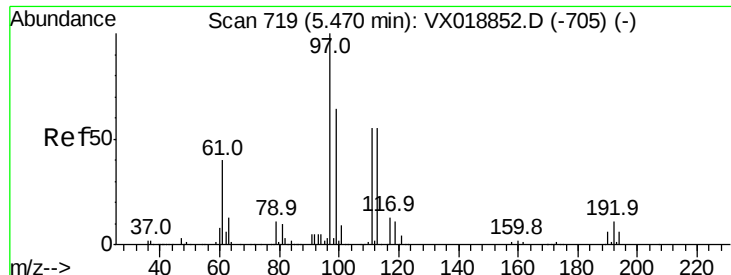
Tot Ion: 65 Resp: 194834
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 97.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.01 min
 Lab File: VX018919.D
 Acq: 12 Oct 2020 21:17

Tgt Ion: 114 Resp: 384070
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 42.4
 88 16.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 52.718 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

Instrument :

MSVOA_X

ClientSampleId :

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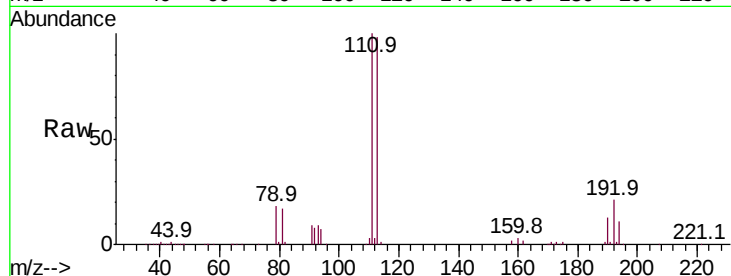
Tot Ion:113 Resp: 144296

Ion Ratio Lower Upper

113 100

111 103.6 80.1 120.1

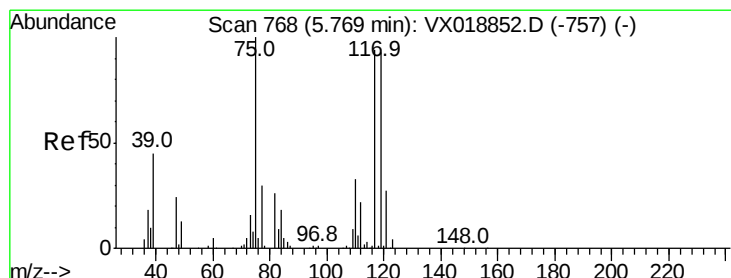
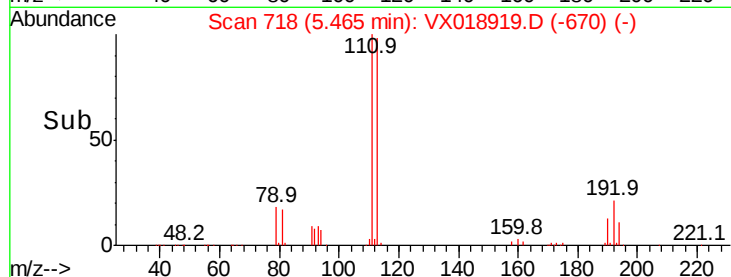
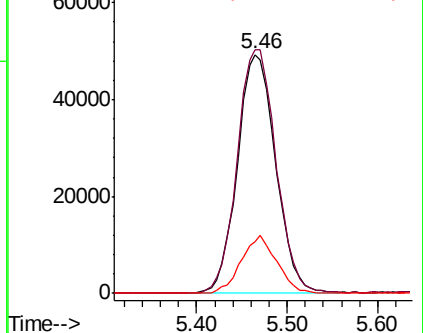
192 22.4 16.0 24.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.967 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

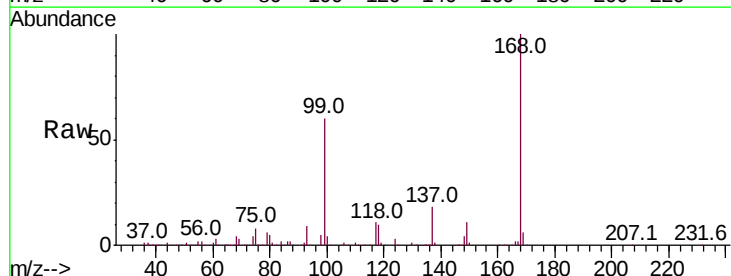
Tgt Ion: 75 Resp: 20058

Ion Ratio Lower Upper

75 100

110 9.7 17.8 53.5#

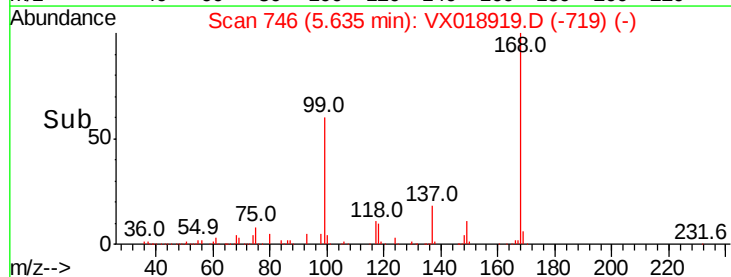
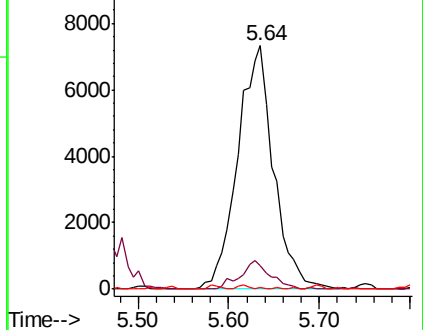
77 0.6 24.2 36.4#

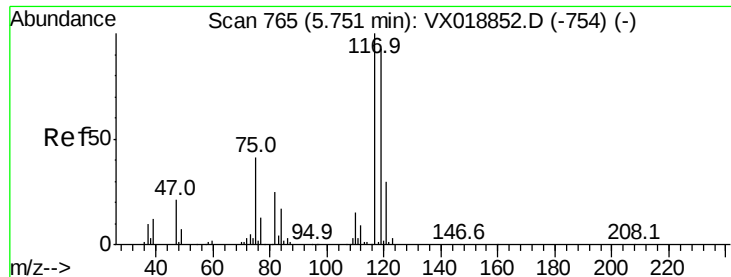


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.190 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

Instrument :

MSVOA_X

ClientSampleId :

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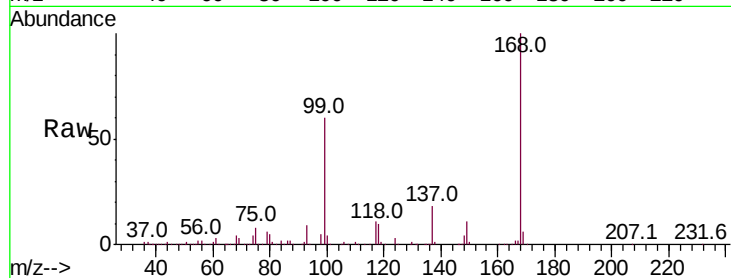
Tot Ion:117 Resp: 25975

Ion Ratio Lower Upper

117 100

119 8.7 73.9 110.9#

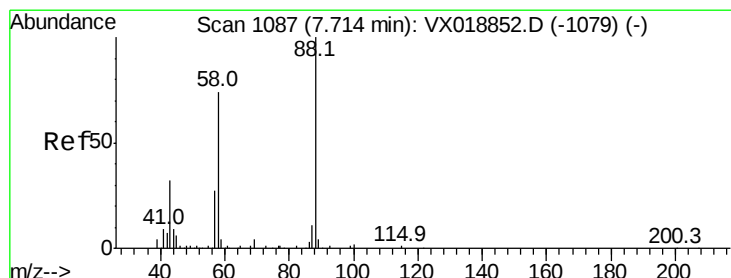
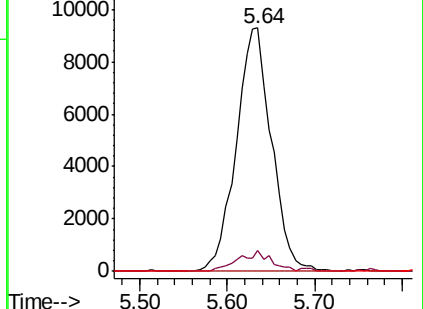
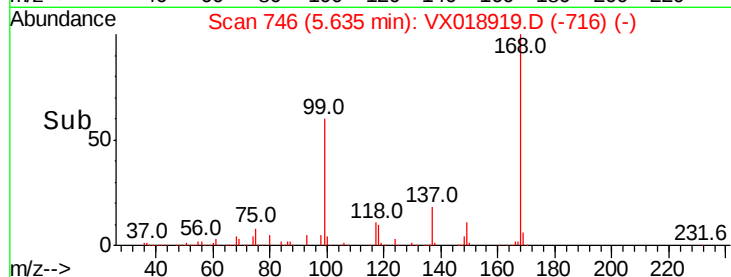
121 0.0 23.6 35.4#



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



#49

1,4-Dioxane

Concen: 0.716 ug/l

RT: 7.70 min Scan# 1084

Delta R.T. -0.02 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

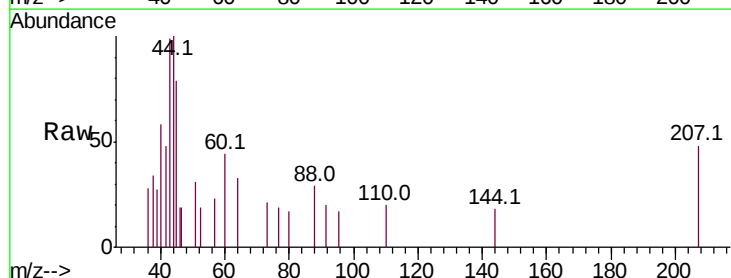
Tgt Ion: 88 Resp: 33

Ion Ratio Lower Upper

88 100

43 842.4 31.0 46.6#

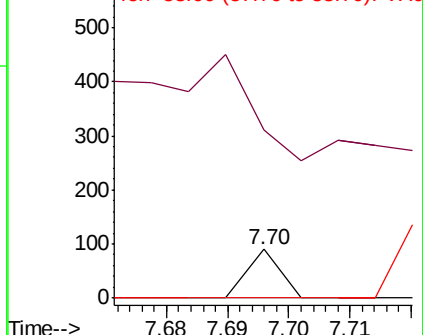
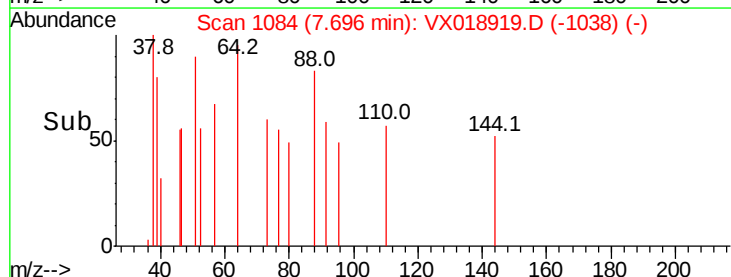
58 0.0 59.3 88.9#

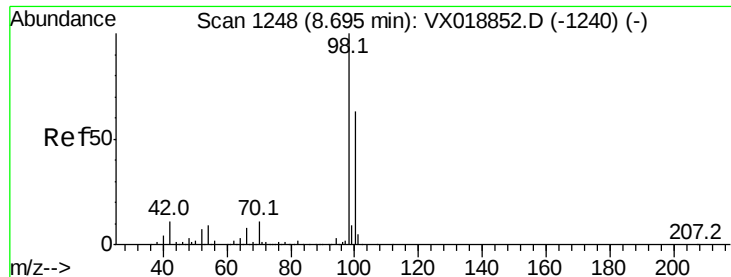


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

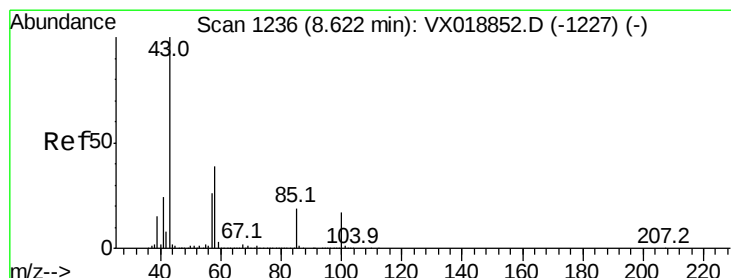
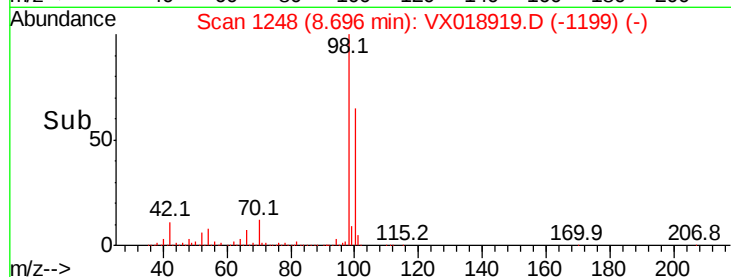
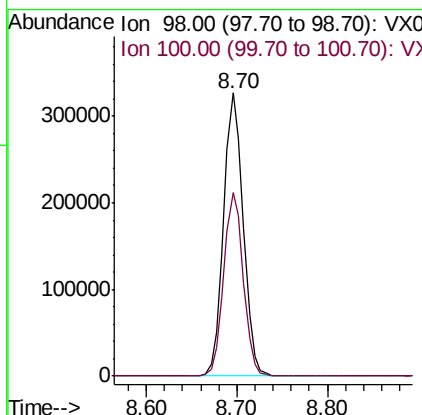
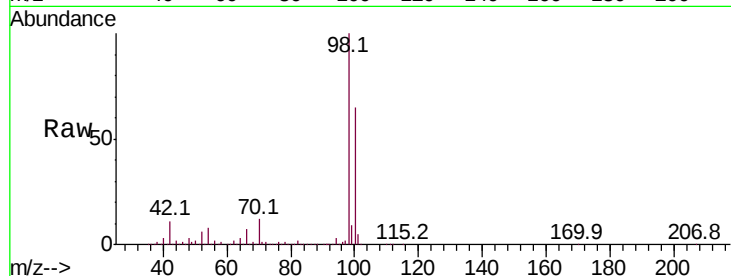




#50
Toluene-d8
Concen: 52.026 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX018919.D
Acq: 12 Oct 2020 21:17

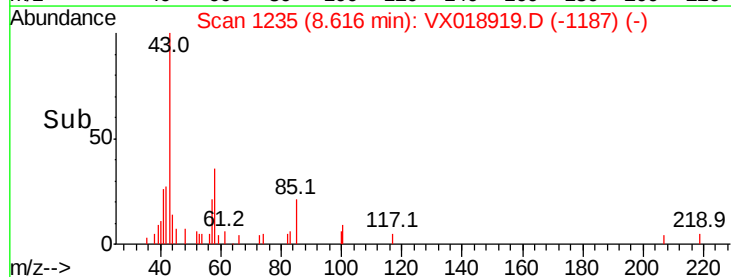
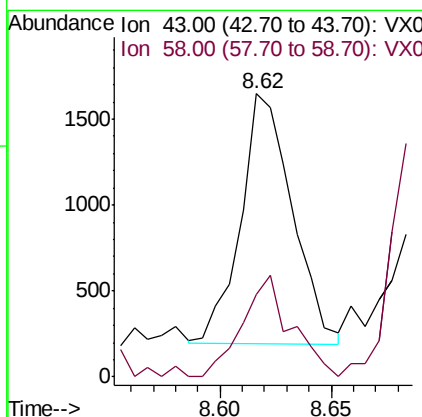
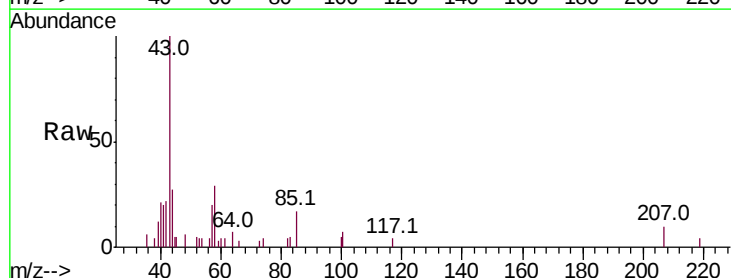
Instrument :
MSVOA_X
ClientSampleId :
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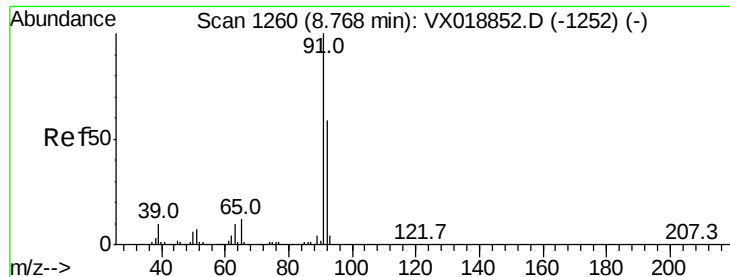
Tot Ion: 98 Resp: 493959
Ion Ratio Lower Upper
98 100
100 64.7 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 0.622 ug/l
RT: 8.62 min Scan# 1235
Delta R.T. -0.01 min
Lab File: VX018919.D
Acq: 12 Oct 2020 21:17

Tgt Ion: 43 Resp: 2353
Ion Ratio Lower Upper
43 100
58 38.3 30.9 46.3





#52

Toluene

Concen: 0.388 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

Instrument :

MSVOA_X

ClientSampled :

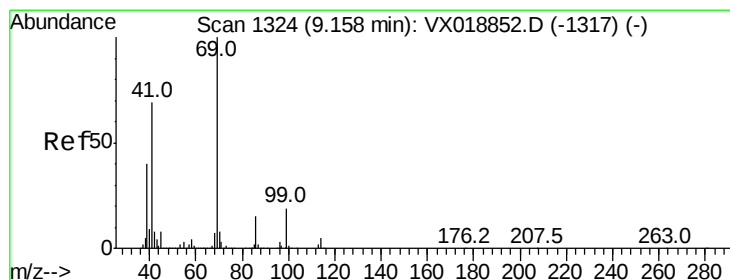
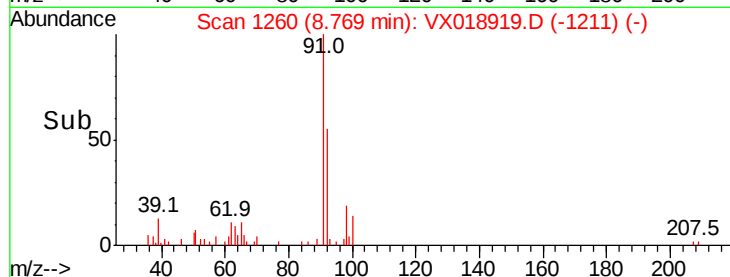
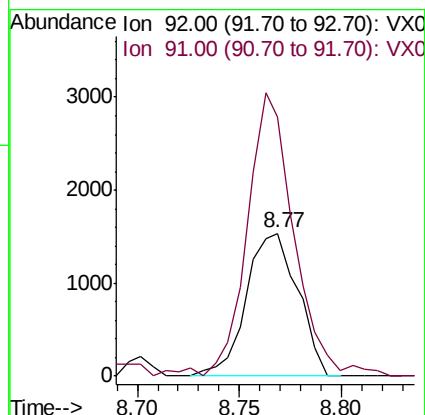
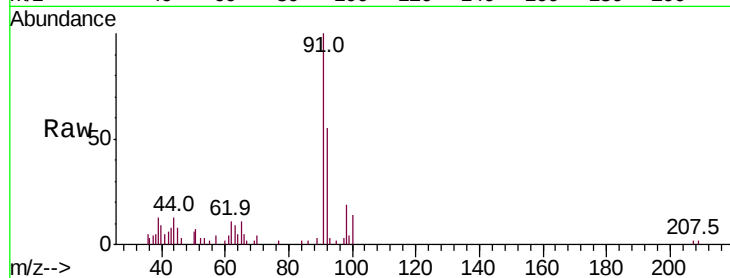
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Tot Ion: 92 Resp: 2701

Ion Ratio Lower Upper

92 100

91 180.0 138.2 207.4



#56

Ethyl methacrylate

Concen: 2.950 ug/l

RT: 9.14 min Scan# 1321

Delta R.T. -0.02 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

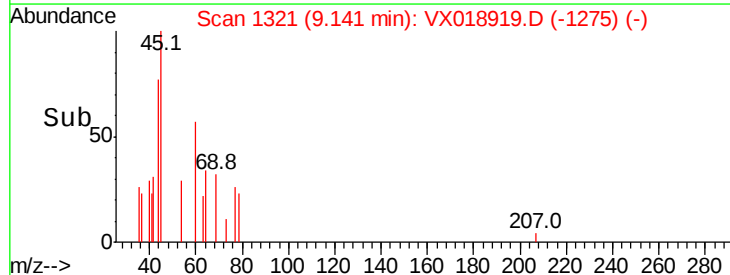
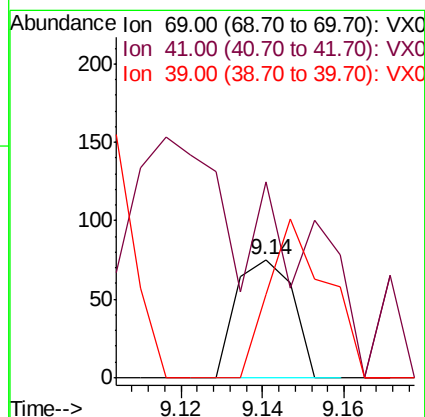
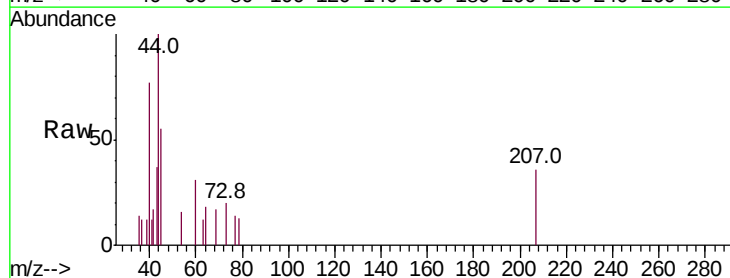
Tgt Ion: 69 Resp: 73

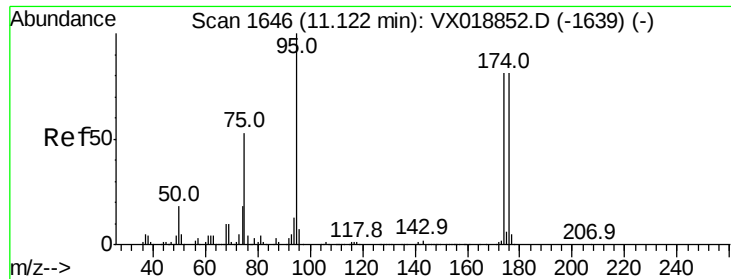
Ion Ratio Lower Upper

69 100

41 0.0 54.6 81.8#

39 138.4 31.5 47.3#





#62

4-Bromofluorobenzene

Concen: 47.163 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

Instrument :

MSVOA_X

ClientSampleId :

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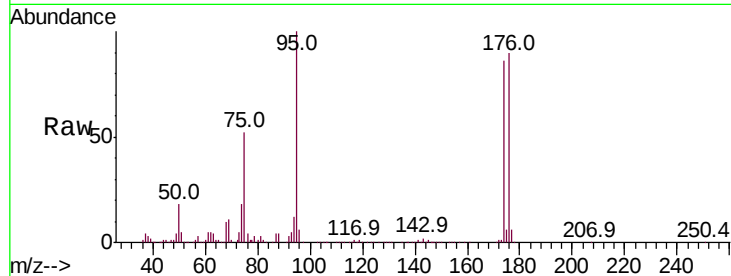
Tot Ion: 95 Resp: 178468

Ion Ratio Lower Upper

95 100

174 90.3 0.0 160.0

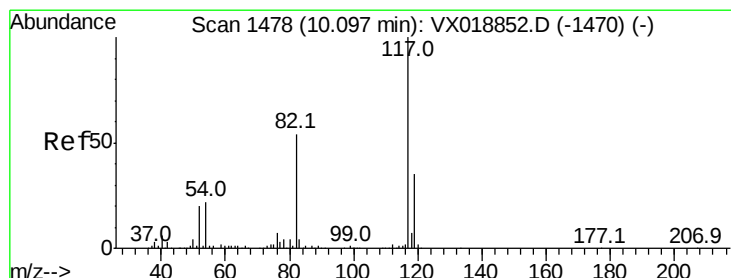
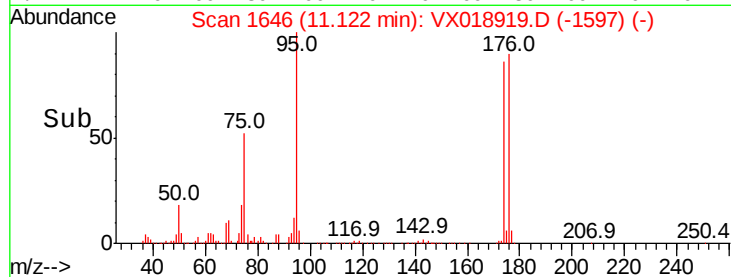
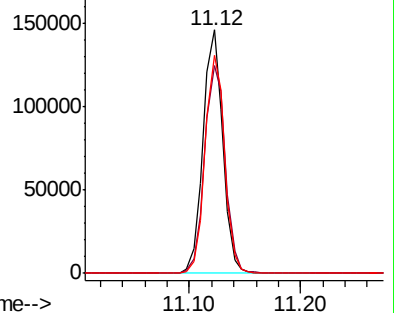
176 89.4 0.0 161.2



Abundance Ion 94.90 (94.60 to 95.60): VX018852.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX018852.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX018852.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

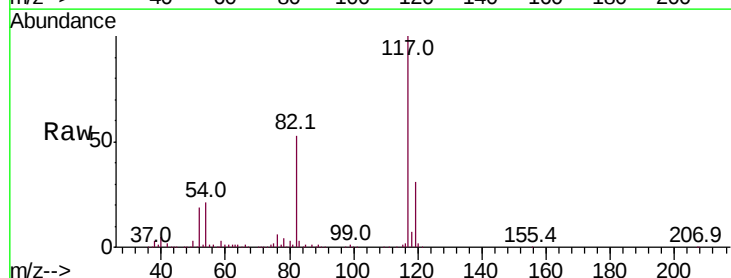
Tgt Ion: 117 Resp: 390672

Ion Ratio Lower Upper

117 100

82 53.4 43.4 65.2

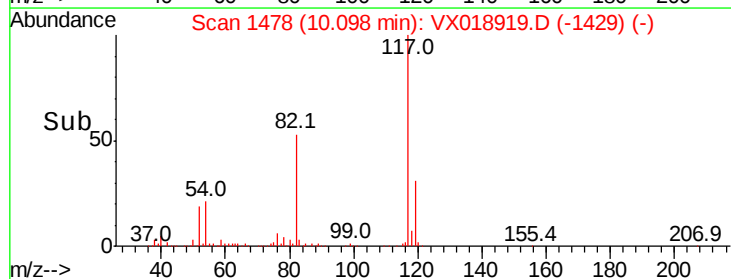
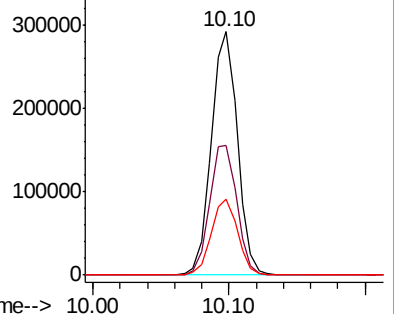
119 31.2 28.3 42.5

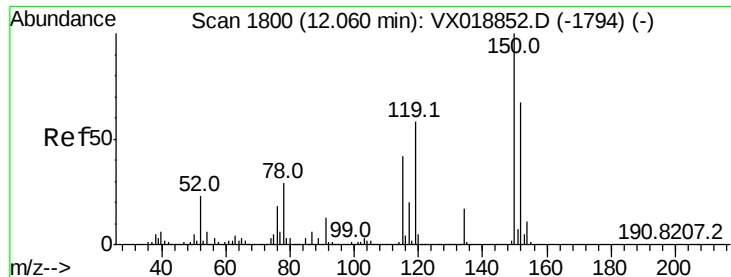


Abundance Ion 116.90 (116.60 to 117.60): VX018852.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX018852.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX018852.D (-1470) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

Instrument :

MSVOA_X

ClientSampleId :

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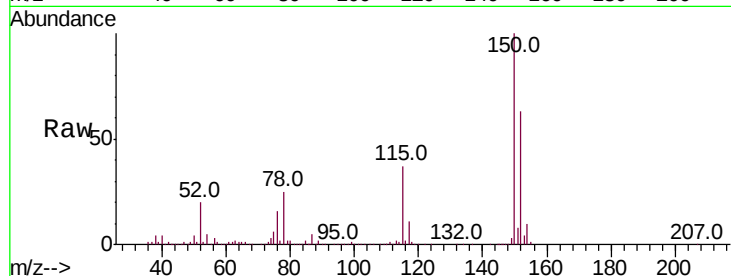
Tot Ion:152 Resp: 197706

Ion Ratio Lower Upper

152 100

115 57.8 41.8 125.4

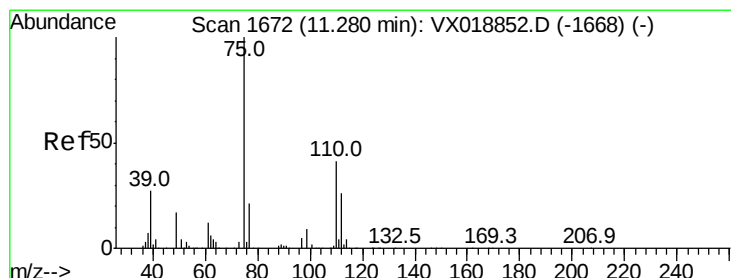
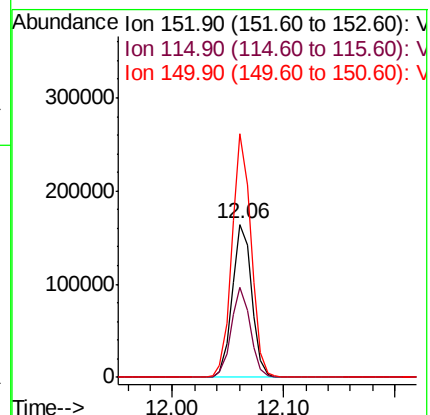
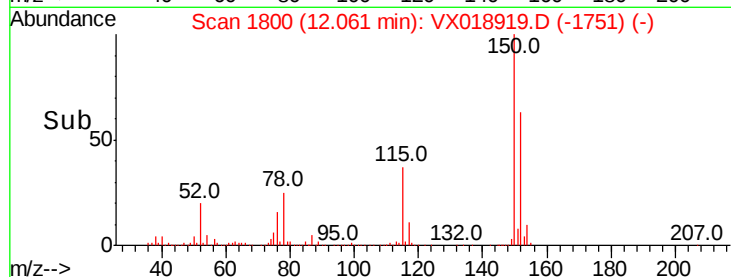
150 156.5 0.0 347.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.566 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018919.D

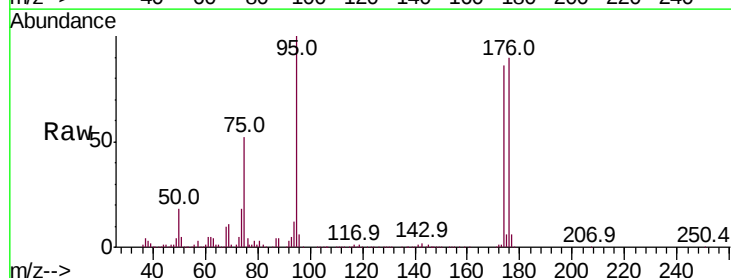
Acq: 12 Oct 2020 21:17

Tgt Ion: 75 Resp: 91870

Ion Ratio Lower Upper

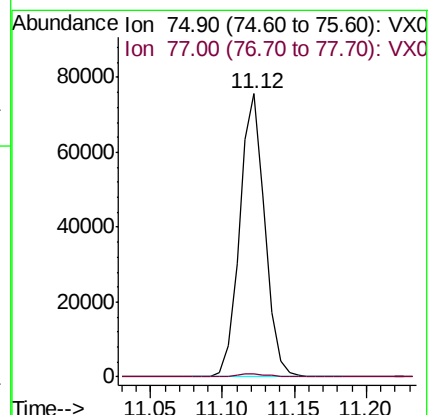
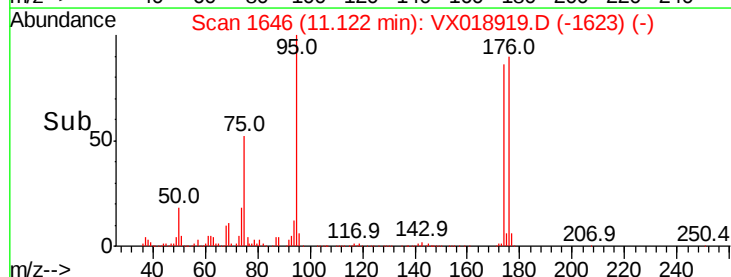
75 100

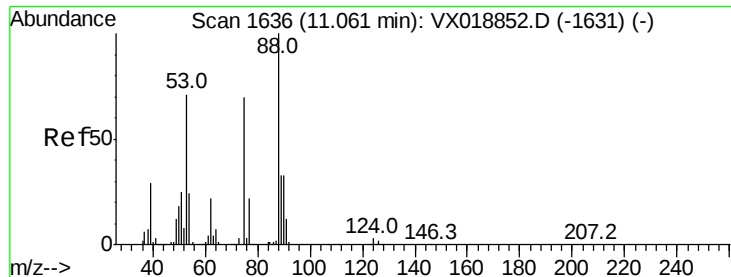
77 1.4 20.2 60.6#



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: 61.117 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

Instrument :

MSVOA_X

ClientSampled :

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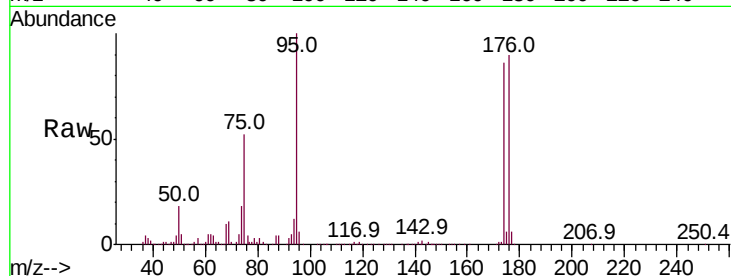
Tot Ion: 75 Resp: 91870

Ion Ratio Lower Upper

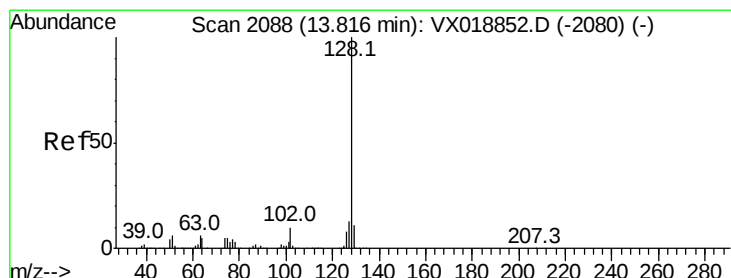
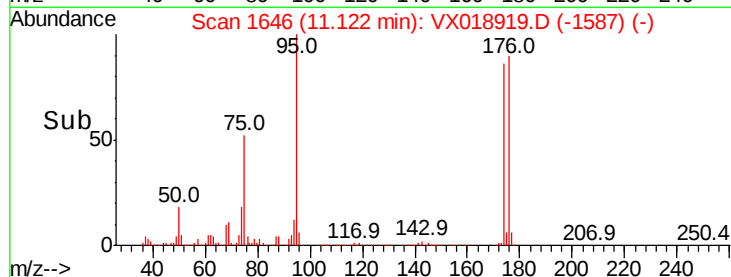
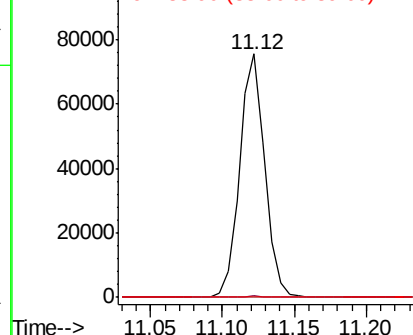
75 100

53 0.6 85.0 127.4#

89 0.0 39.0 58.4#



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



#95

Naphthalene

Concen: 3.092 ug/l

RT: 13.82 min Scan# 2089

Delta R.T. 0.01 min

Lab File: VX018919.D

Acq: 12 Oct 2020 21:17

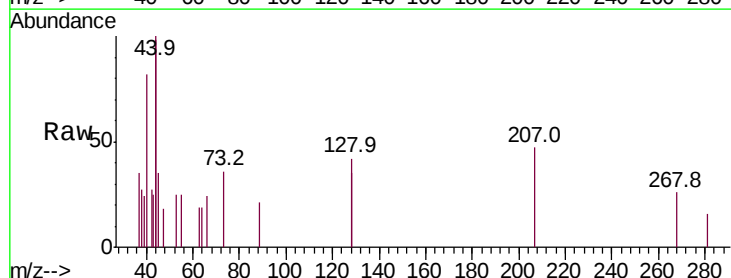
Tgt Ion: 128 Resp: 221

Ion Ratio Lower Upper

128 100

127 19.9 10.1 15.1#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

