

Data File : VX019602.D
Acq On : 24 Nov 2020 13:58
Operator : JC/MD
Sample : L4840-06 50X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
30738

Quant Time: Nov 25 04:01:45 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	306523	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	505253	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	462053	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	191587	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	187800	47.25	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.50%
35) Dibromofluoromethane	5.46	113	148041	46.68	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.36%
50) Toluene-d8	8.70	98	606721	49.23	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.46%
62) 4-Bromofluorobenzene	11.12	95	212875	48.01	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	96.02%

Target Compounds

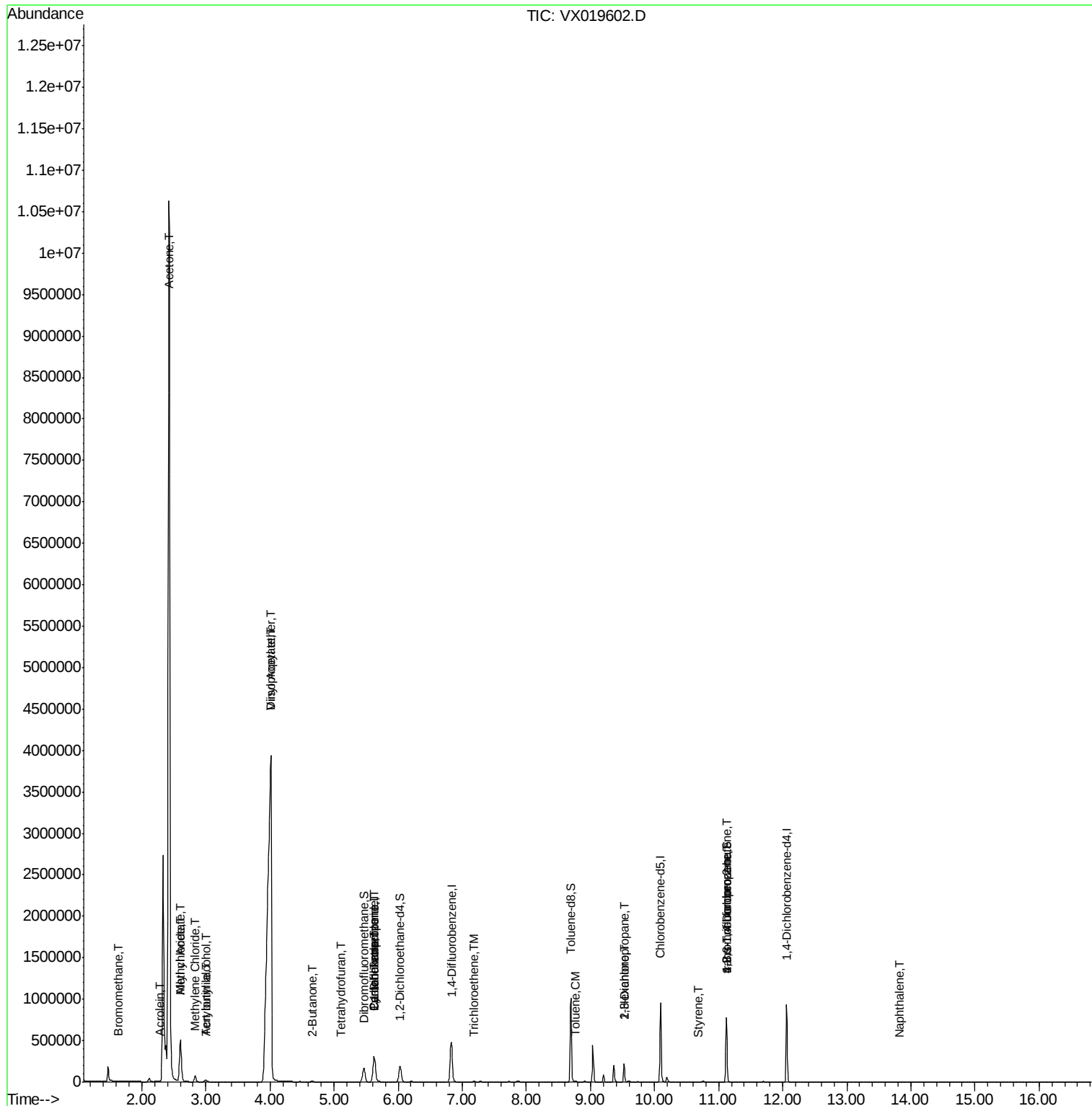
					Qvalue	
5) Bromomethane	1.62	94	609	0.437	ug/l #	75
6) Chloroethane	1.70	64	688	Below Cal	#	41
11) Tert butyl alcohol	3.00	59	16439	21.856	ug/l #	84
13) Acrolein	2.28	56	9358	18.509	ug/l #	81
14) Allyl chloride	2.60	41	54824	11.500	ug/l #	63
15) Acrylonitrile	3.00	53	395	0.223	ug/l #	17
16) Acetone	2.42	43	11196505	7284.909	ug/l	91
18) Methyl Acetate	2.60	43	164930	43.845	ug/l #	47
20) Methylene Chloride	2.83	84	35116	9.141	ug/l	97
22) Diisopropyl ether	4.01	45	458140	46.455	ug/l #	1
23) Vinyl Acetate	4.01	43	1077019	130.197	ug/l #	68
25) 2-Butanone	4.65	43	5279	2.286	ug/l	99
29) Tetrahydrofuran	5.11	42	944	0.641	ug/l #	34
31) Cyclohexane	5.63	56	5843	1.130	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23394	4.939	ug/l #	49
38) Carbon Tetrachloride	5.62	117	29646	6.466	ug/l #	17
44) Trichloroethene	7.18	130	984	0.258	ug/l	97
52) Toluene	8.76	92	3822	0.429	ug/l	95
57) 1,3-Dichloropropane	9.52	76	1945	0.320	ug/l #	43
59) 2-Hexanone	9.52	43	23365	7.068	ug/l #	48
70) Styrene	10.69	104	168	1.661	ug/l #	74
76) 1,2,3-Trichloropropane	11.12	75	103588	24.775	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	103588	65.484	ug/l #	12
95) Naphthalene	13.81	128	566	2.216	ug/l #	87

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

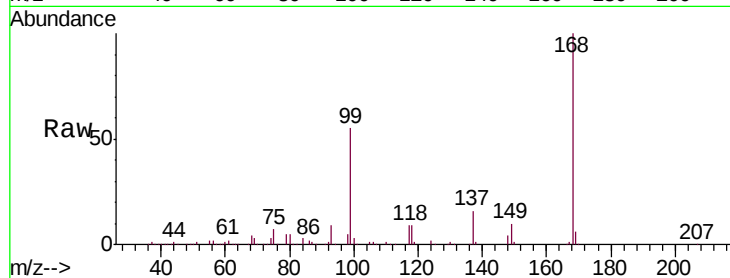
30738

Tgt Ion:168 Resp: 306523

Ion Ratio Lower Upper

168 100

99 55.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

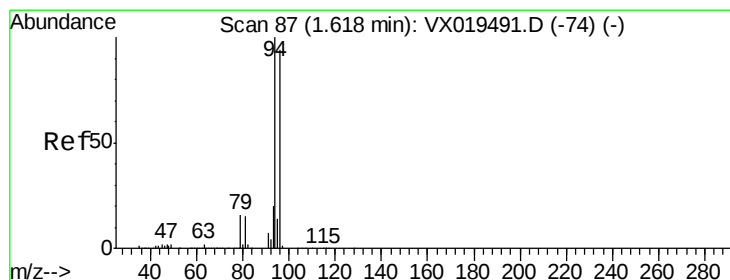
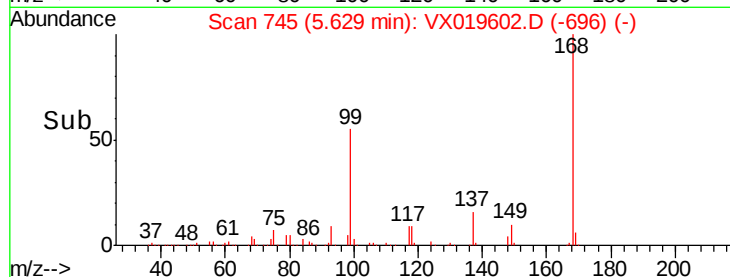
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.437 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019602.D

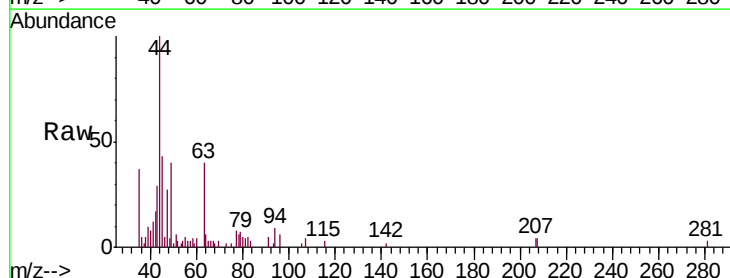
Acq: 24 Nov 2020 13:58

Tgt Ion: 94 Resp: 609

Ion Ratio Lower Upper

94 100

96 70.3 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

250

200

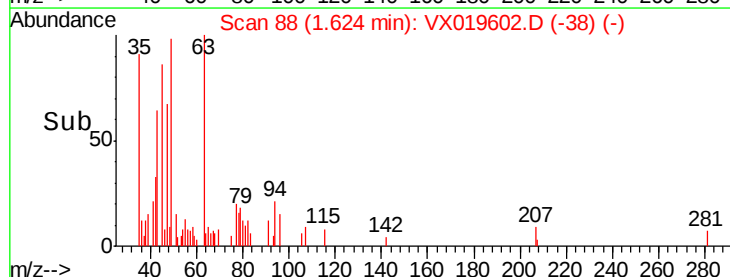
150

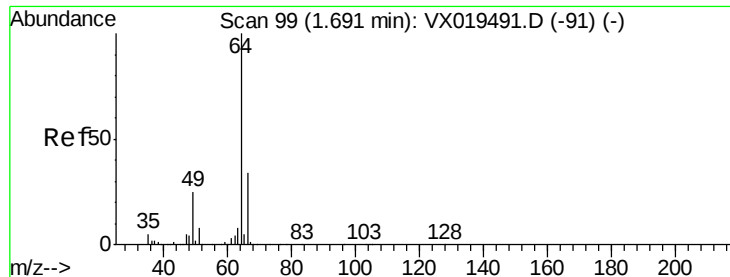
100

50

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 100

Delta R.T. 0.01 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

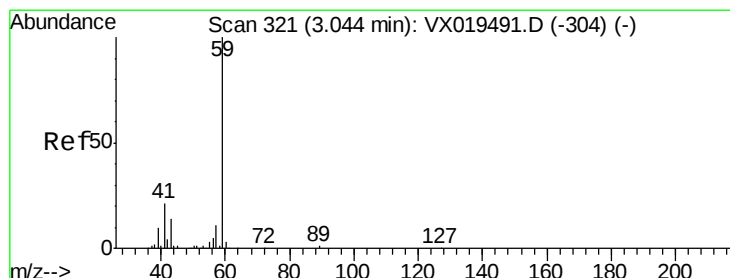
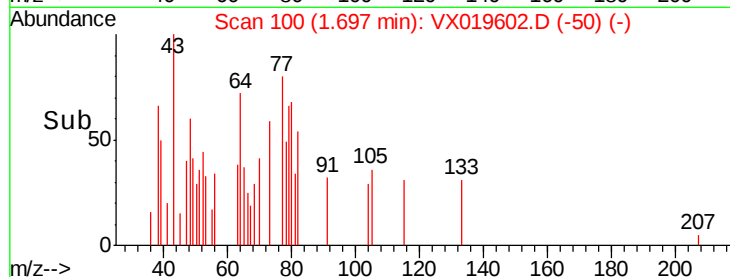
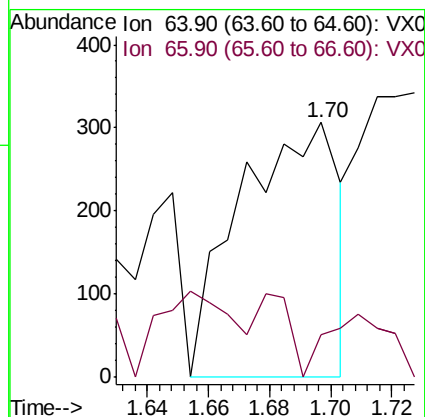
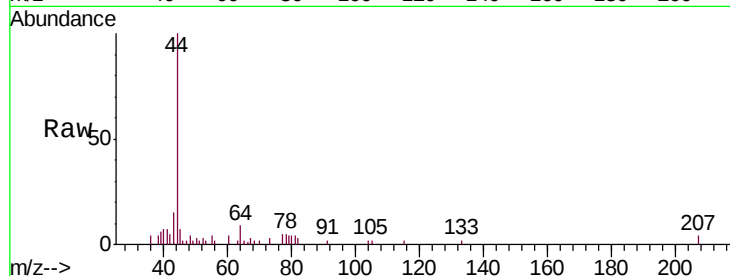
30738

Tgt Ion: 64 Resp: 688

Ion Ratio Lower Upper

64 100

66 0.0 27.1 40.7#



#11

Tert butyl alcohol

Concen: 21.856 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.05 min

Lab File: VX019602.D

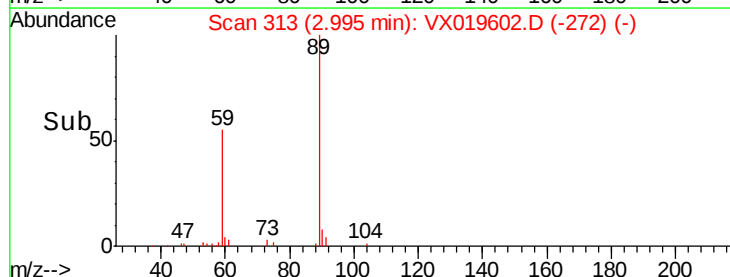
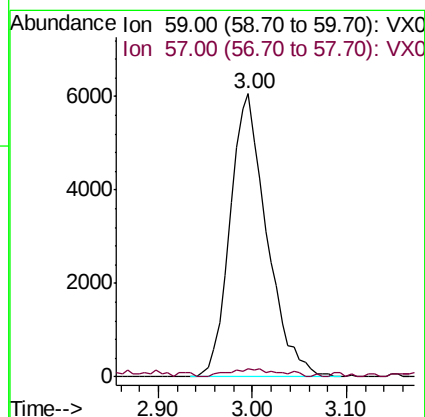
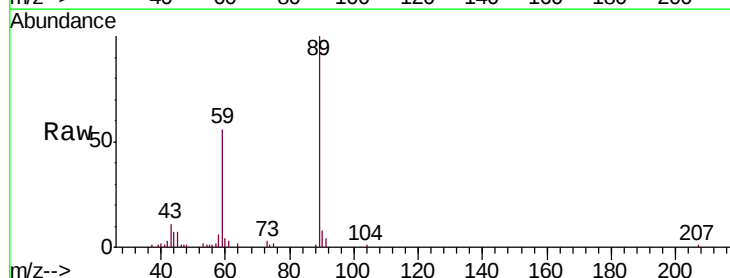
Acq: 24 Nov 2020 13:58

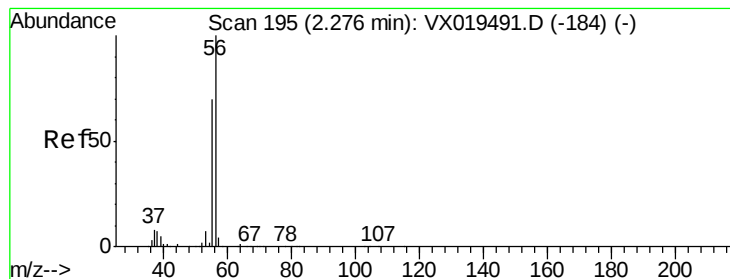
Tgt Ion: 59 Resp: 16439

Ion Ratio Lower Upper

59 100

57 4.0 7.9 11.9#





#13

Acrolein

Concen: 18.509 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

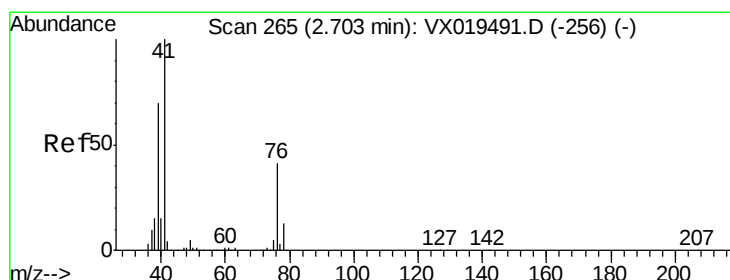
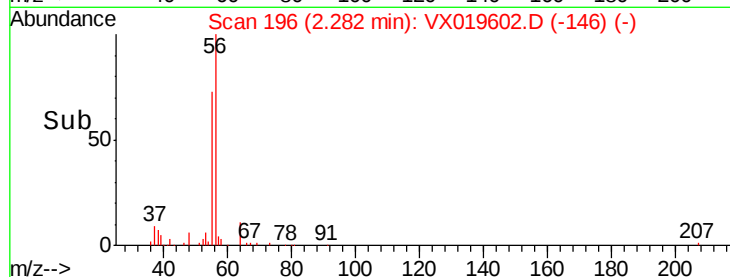
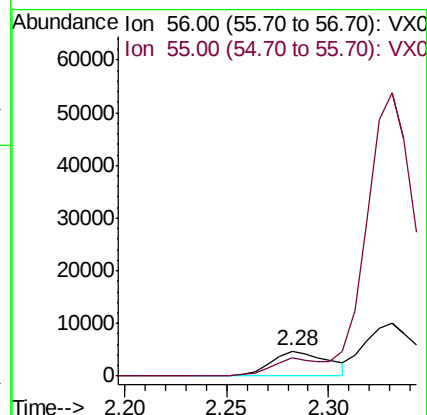
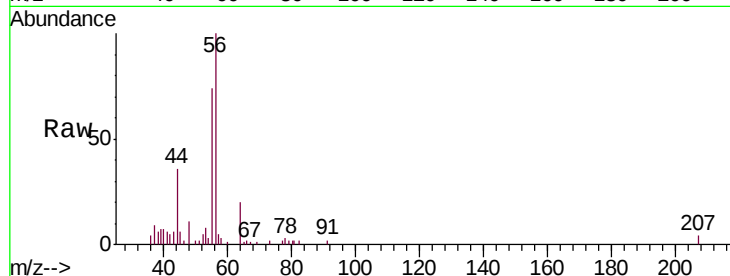
30738

Tgt Ion: 56 Resp: 9358

Ion Ratio Lower Upper

56 100

55 54.0 55.5 83.3#



#14

Allyl chloride

Concen: 11.500 ug/l

RT: 2.60 min Scan# 248

Delta R.T. -0.10 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

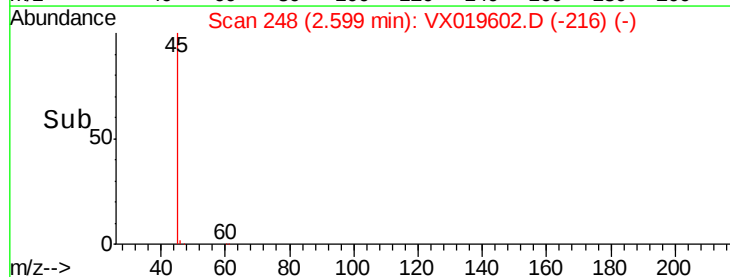
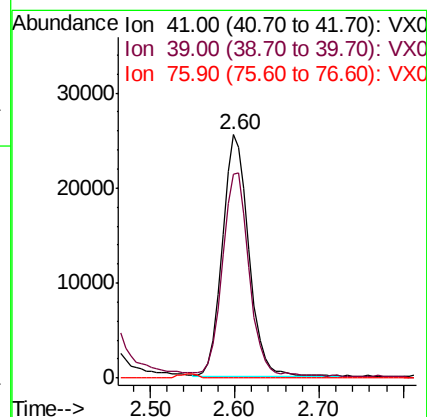
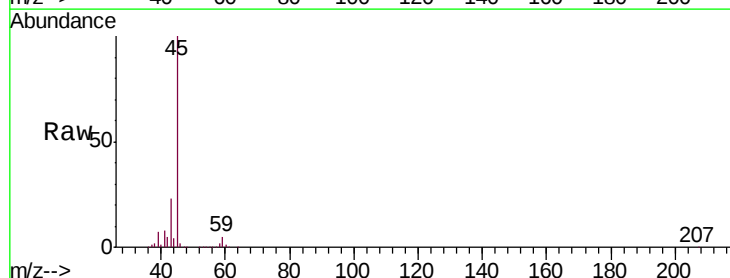
Tgt Ion: 41 Resp: 54824

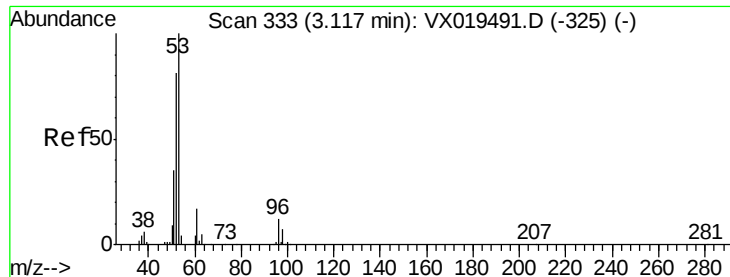
Ion Ratio Lower Upper

41 100

39 83.7 53.0 79.4#

76 0.0 31.0 46.6#





#15

Acrylonitrile

Concen: 0.223 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.12 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

30738

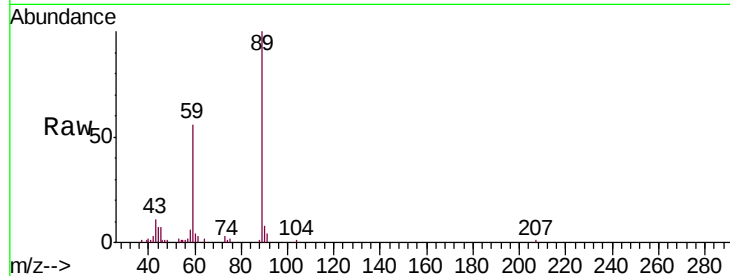
Tgt Ion: 53 Resp: 395

Ion Ratio Lower Upper

53 100

52 0.0 66.2 99.2#

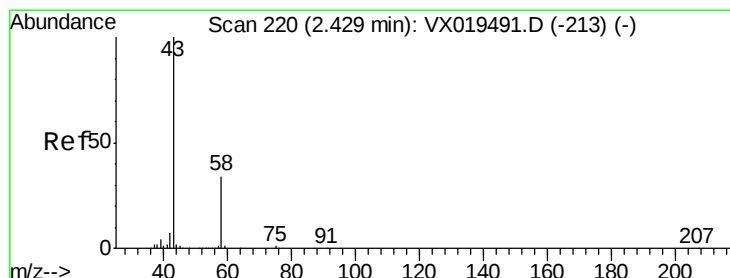
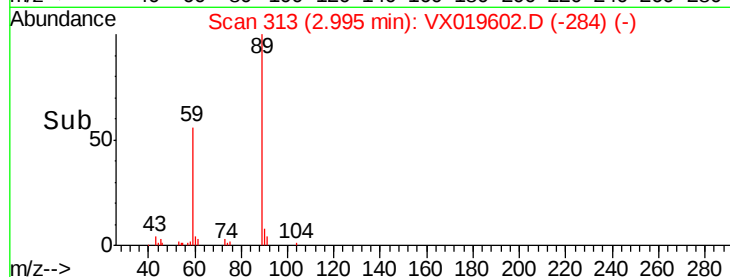
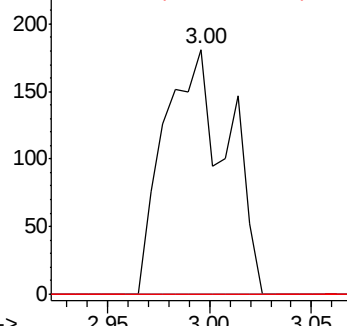
51 0.0 28.5 42.7#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 7284.909 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX019602.D

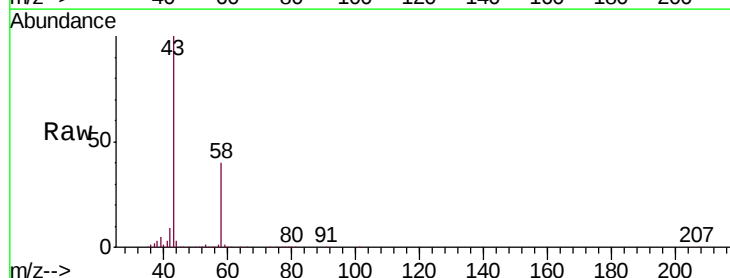
Acq: 24 Nov 2020 13:58

Tgt Ion: 43 Resp: 11196505

Ion Ratio Lower Upper

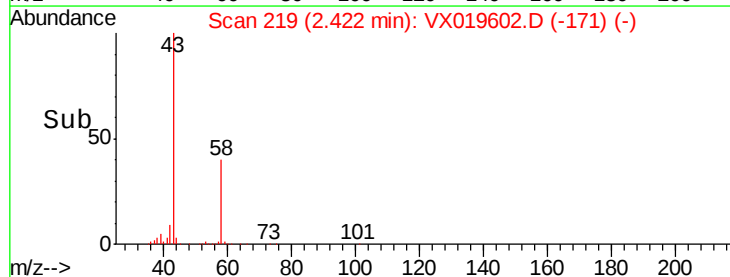
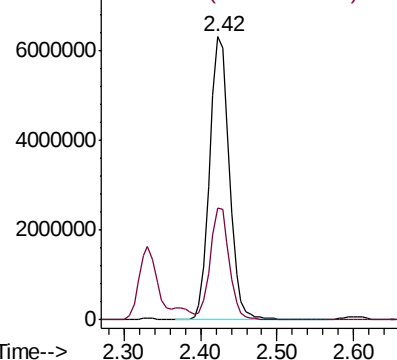
43 100

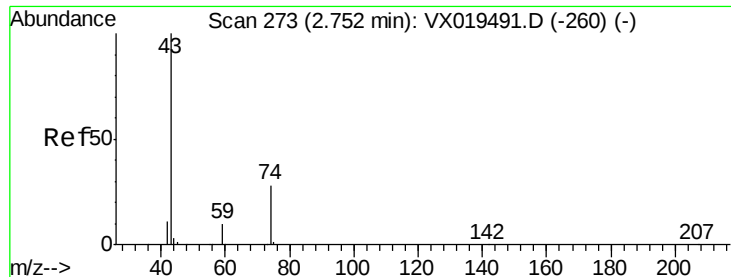
58 39.6 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

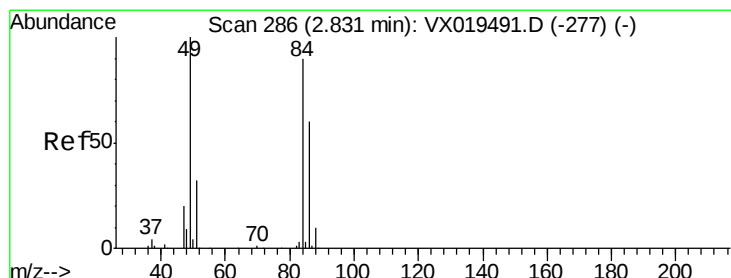
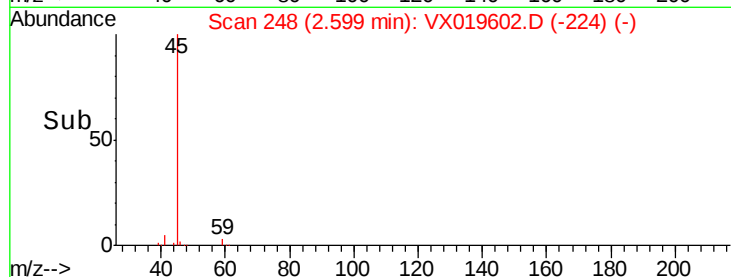
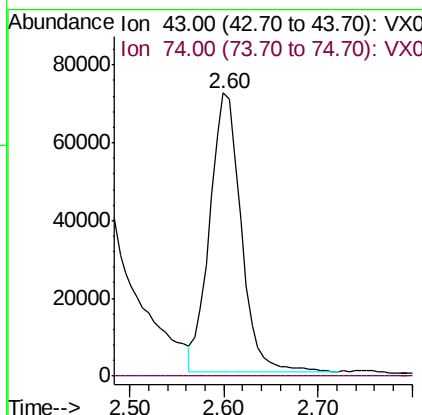
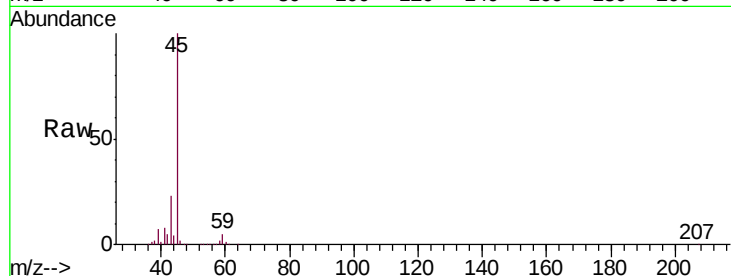




#18
Methyl Acetate
Concen: 43.845 ug/l
RT: 2.60 min Scan# 248
Delta R.T. -0.15 min
Lab File: VX019602.D
Acq: 24 Nov 2020 13:58

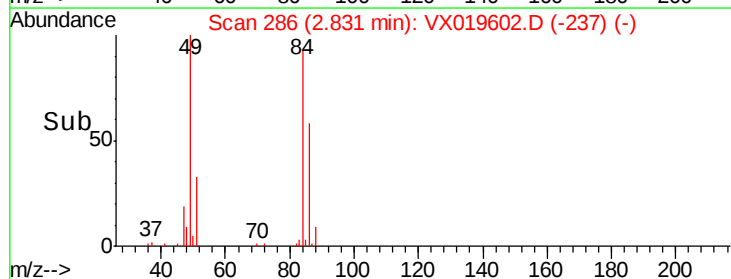
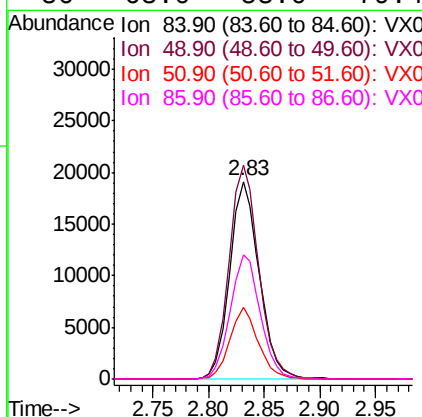
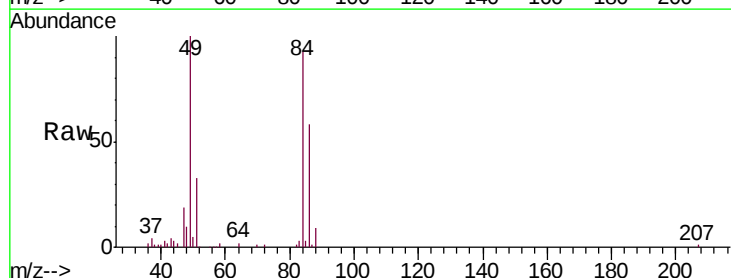
Instrument :
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30738

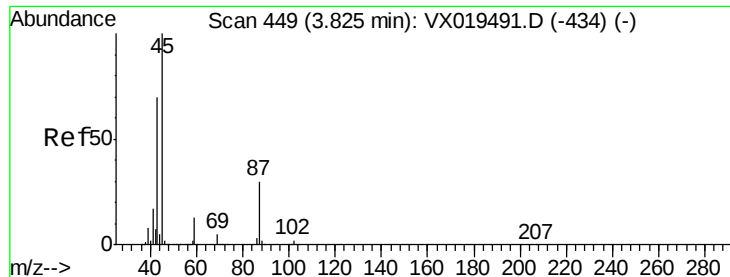
Tgt Ion: 43 Resp: 164930
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.4#



#20
Methylene Chloride
Concen: 9.141 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019602.D
Acq: 24 Nov 2020 13:58

Tgt Ion: 84 Resp: 35116
Ion Ratio Lower Upper
84 100
49 108.0 88.5 132.7
51 36.0 28.0 42.0
86 63.0 53.0 79.4





#22

Diisopropyl ether

Concen: 46.455 ug/l

RT: 4.01 min Scan# 480

Delta R.T. 0.19 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

30738

Tgt Ion: 45 Resp: 458140

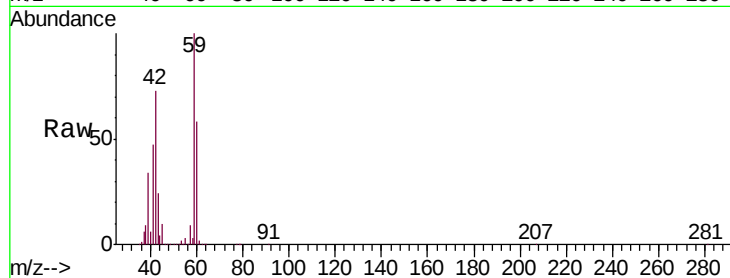
Ion Ratio Lower Upper

45 100

43 235.8 56.1 84.1#

87 0.0 24.2 36.2#

59 963.8 10.2 15.2#

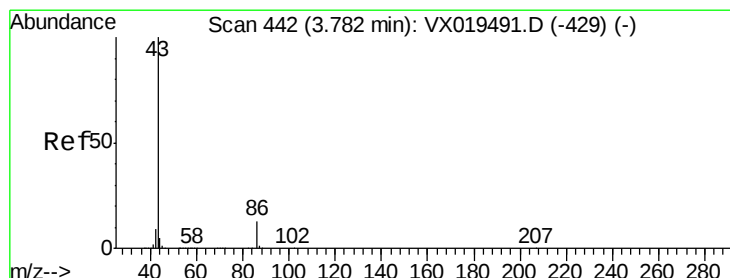
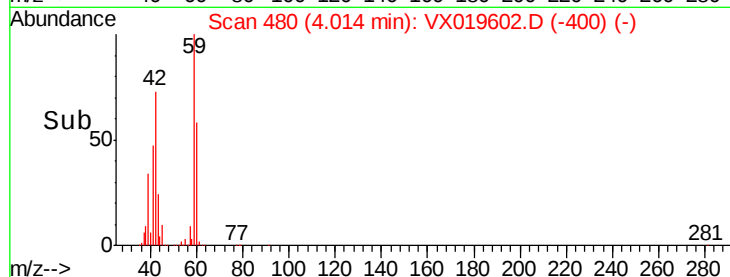
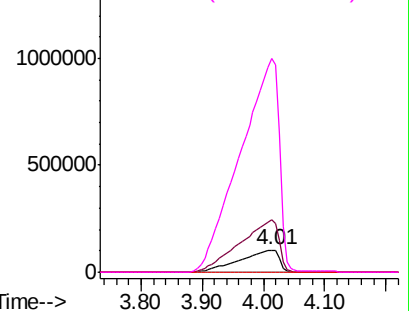


Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0



#23

Vinyl Acetate

Concen: 130.197 ug/l

RT: 4.01 min Scan# 480

Delta R.T. 0.23 min

Lab File: VX019602.D

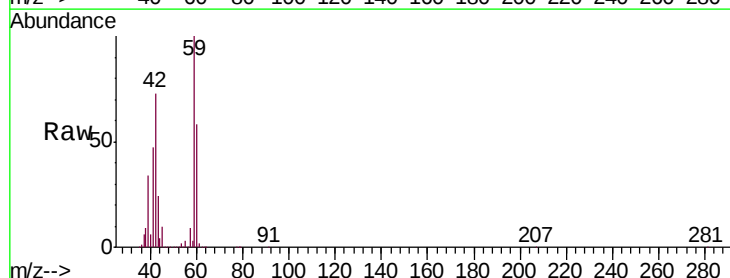
Acq: 24 Nov 2020 13:58

Tgt Ion: 43 Resp: 1077019

Ion Ratio Lower Upper

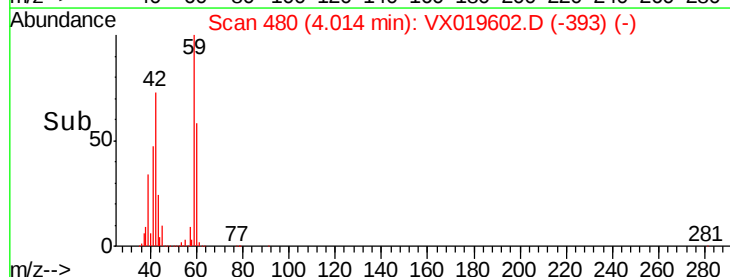
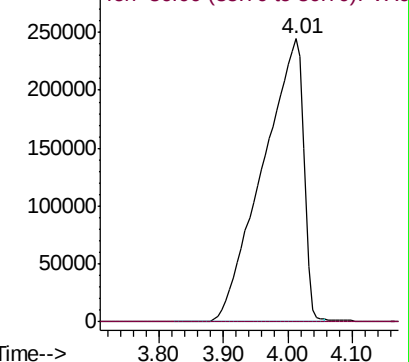
43 100

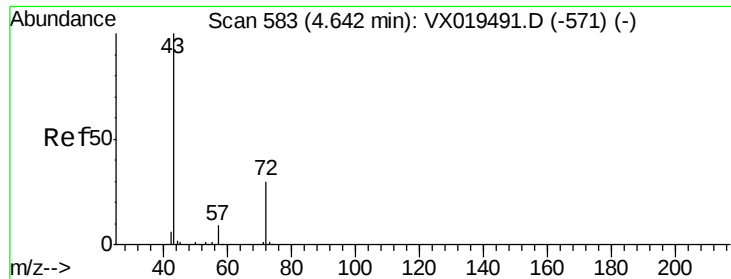
86 0.0 10.2 15.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0





#25

2-Butanone

Concen: 2.286 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

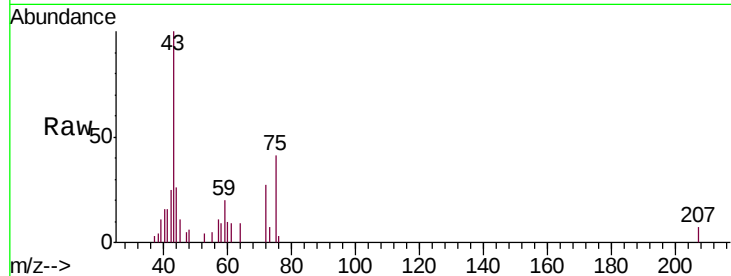
30738

Tgt Ion: 43 Resp: 5279

Ion Ratio Lower Upper

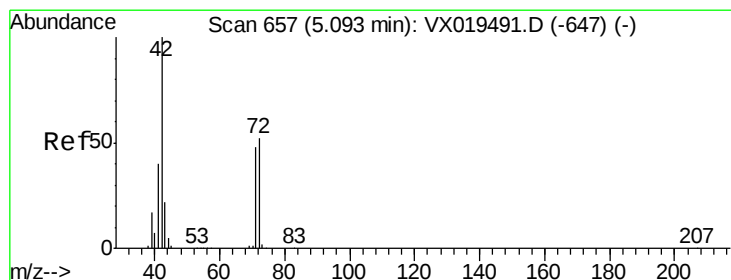
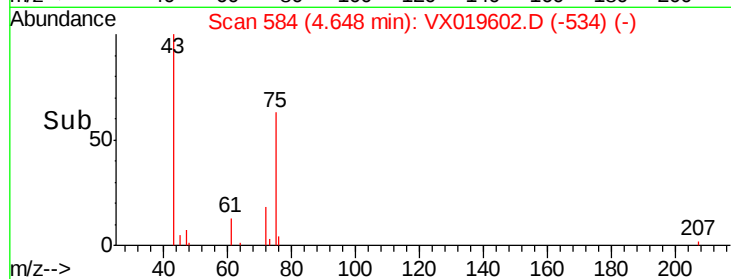
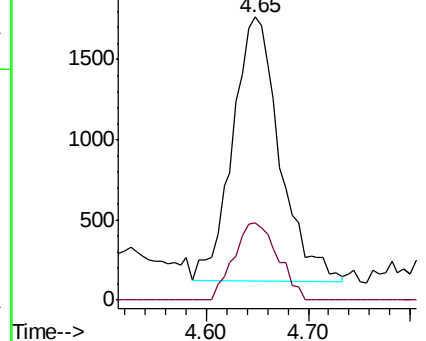
43 100

72 29.5 24.0 36.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.641 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

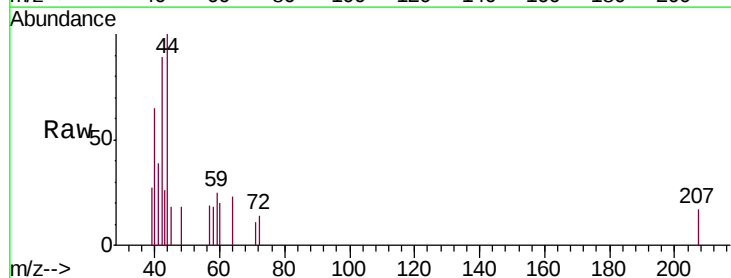
Tgt Ion: 42 Resp: 944

Ion Ratio Lower Upper

42 100

72 8.2 42.6 63.8#

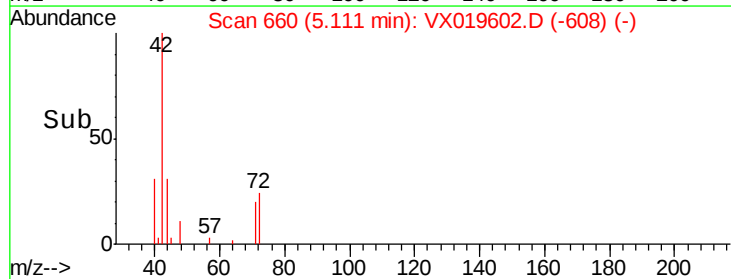
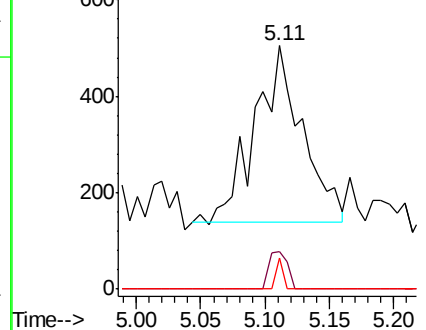
71 2.4 39.0 58.6#

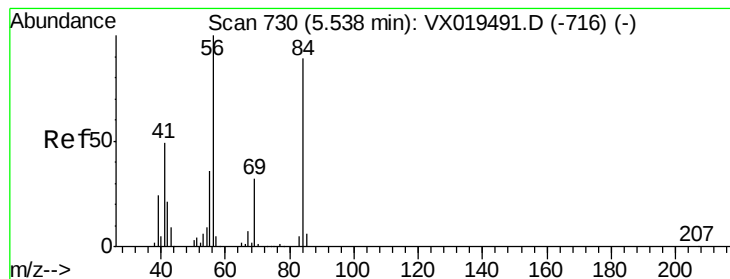


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.130 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

Instrument :

MSVOA_X

ClientSampled :

30738

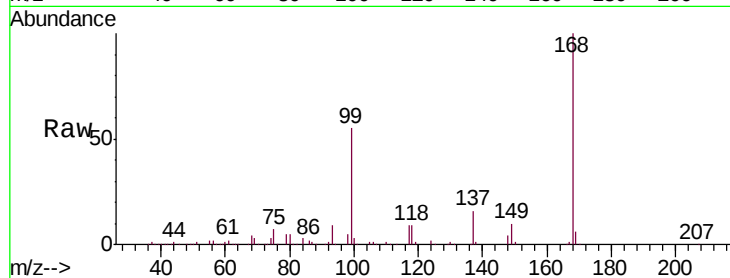
Tgt Ion: 56 Resp: 5843

Ion Ratio Lower Upper

56 100

69 187.7 25.5 38.3#

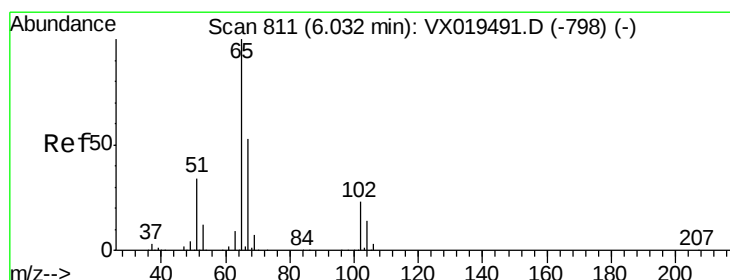
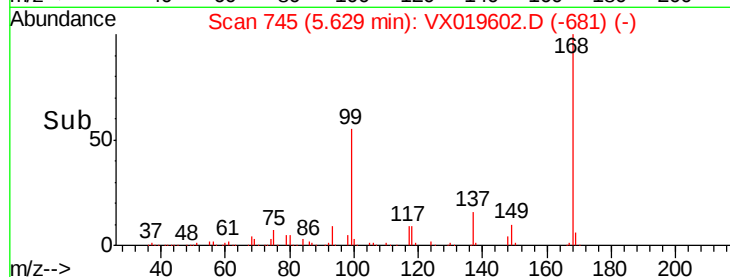
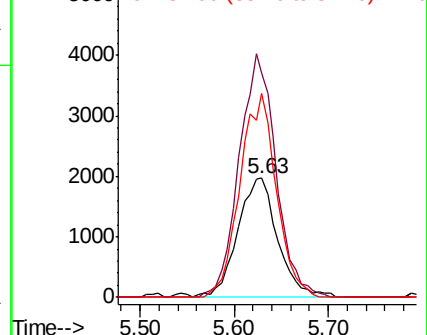
84 170.5 71.1 106.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.253 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.01 min

Lab File: VX019602.D

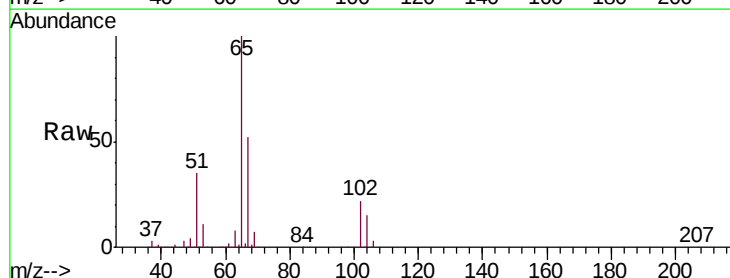
Acq: 24 Nov 2020 13:58

Tgt Ion: 65 Resp: 187800

Ion Ratio Lower Upper

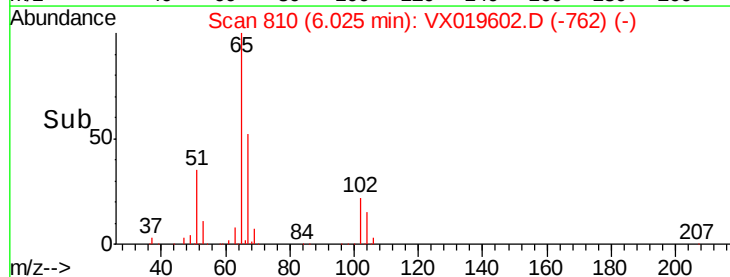
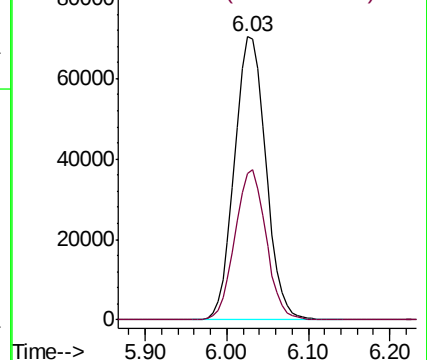
65 100

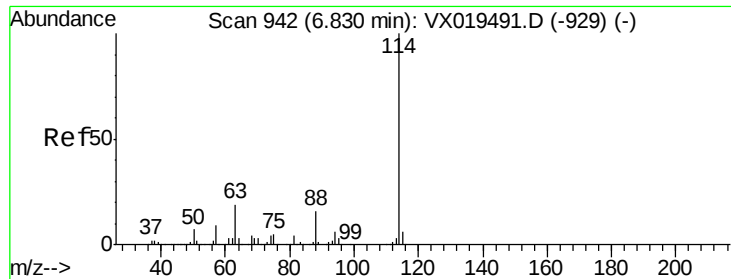
67 52.3 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

30738

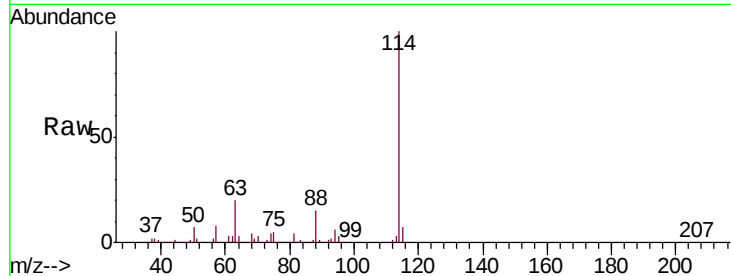
Tgt Ion:114 Resp: 505253

Ion Ratio Lower Upper

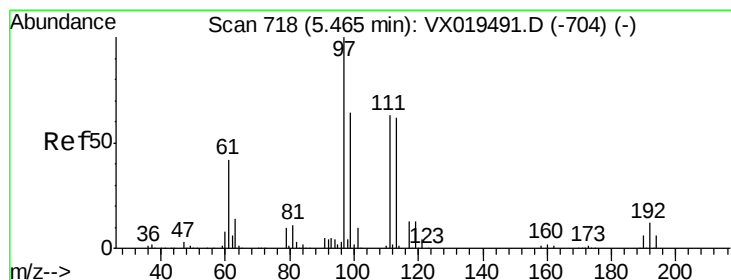
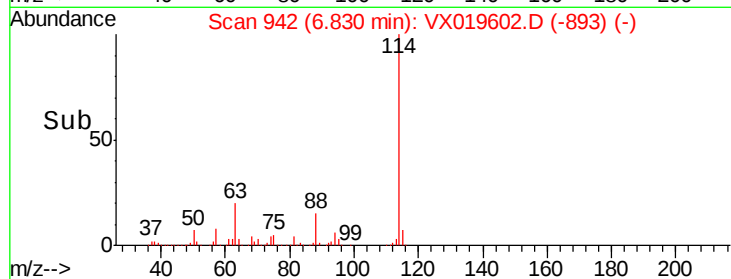
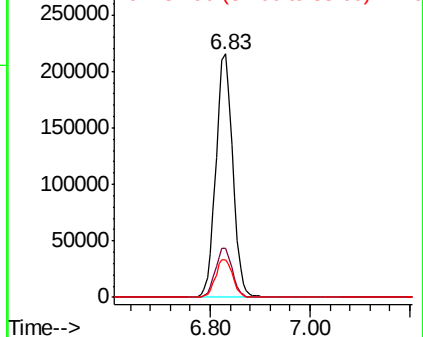
114 100

63 20.1 0.0 38.8

88 15.5 0.0 31.6



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: 46.679 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

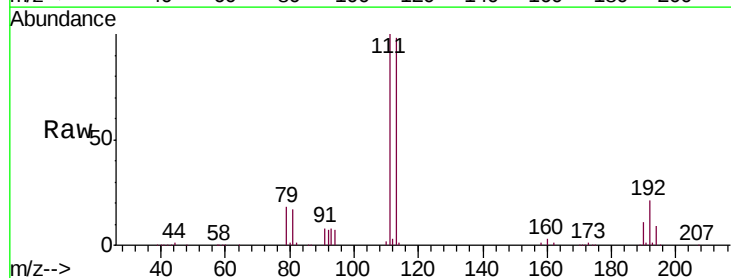
Tgt Ion:113 Resp: 148041

Ion Ratio Lower Upper

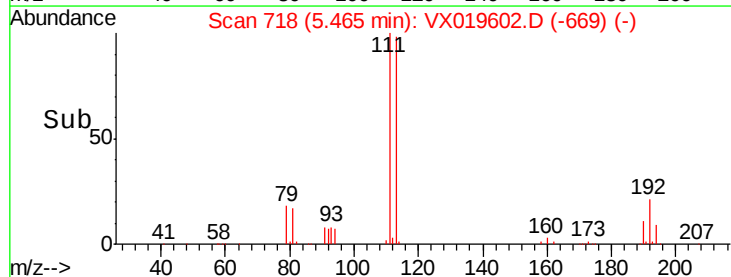
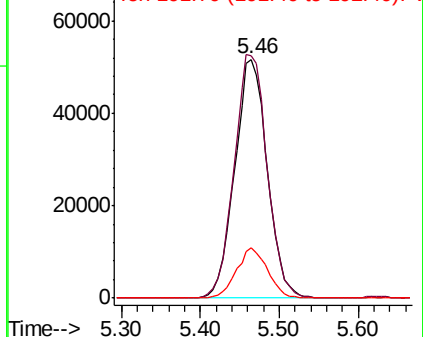
113 100

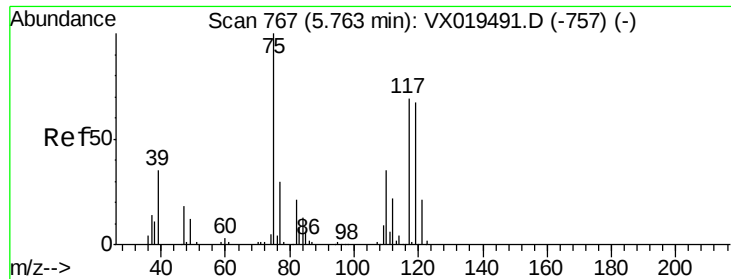
111 103.6 81.5 122.3

192 20.2 16.2 24.2



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

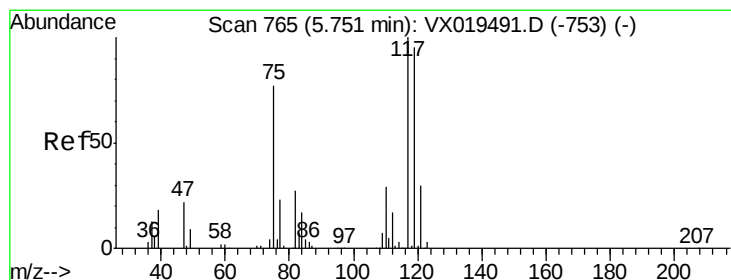
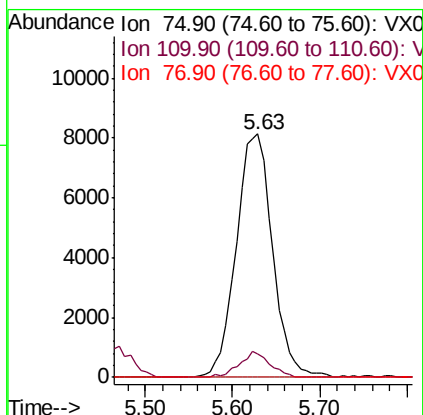
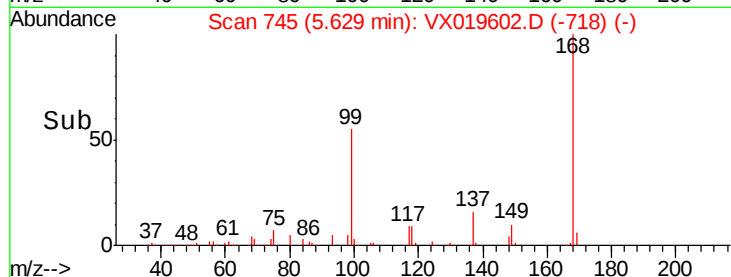
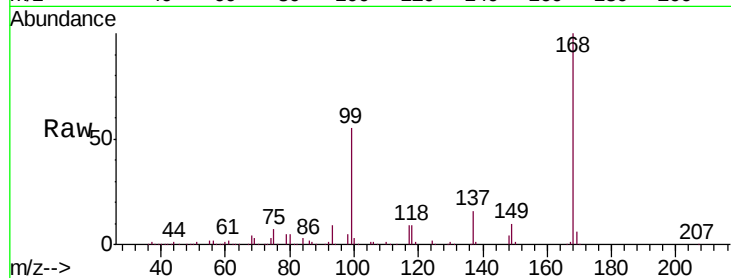




#36
 1,1-Dichloropropene
 Concen: 4.939 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019602.D
 Acq: 24 Nov 2020 13:58

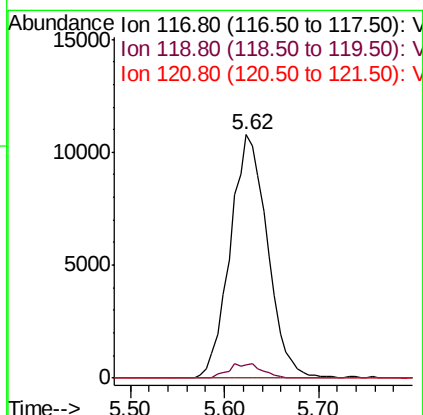
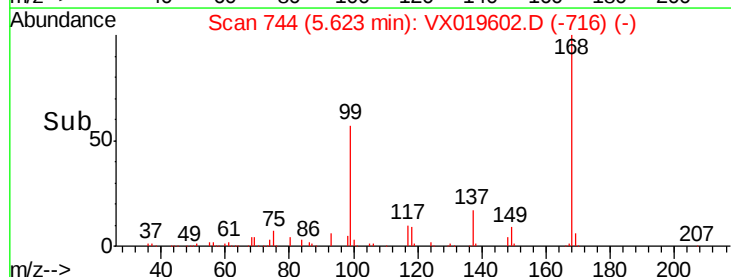
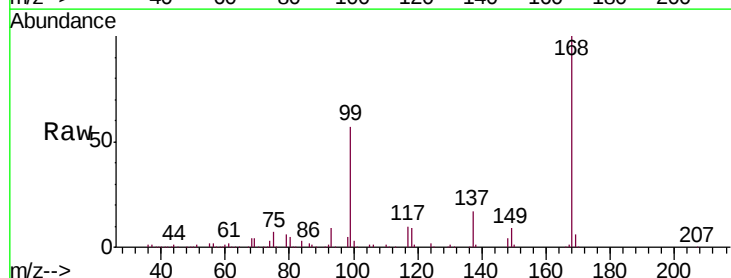
Instrument :
 MSVOA_X
 ClientSampled :
 30738

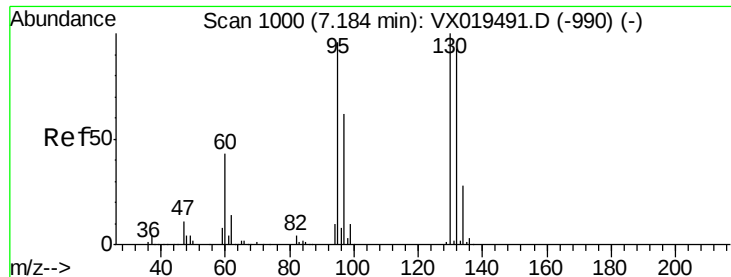
Tgt Ion: 75 Resp: 23394
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.1 54.3#
 77 0.0 24.2 36.4#



#38
 Carbon Tetrachloride
 Concen: 6.466 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.13 min
 Lab File: VX019602.D
 Acq: 24 Nov 2020 13:58

Tgt Ion: 117 Resp: 29646
 Ion Ratio Lower Upper
 117 100
 119 5.5 75.9 113.9#
 121 0.0 24.0 36.0#





#44

Trichloroethene

Concen: 0.258 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

Instrument :

MSVOA_X

ClientSampled :

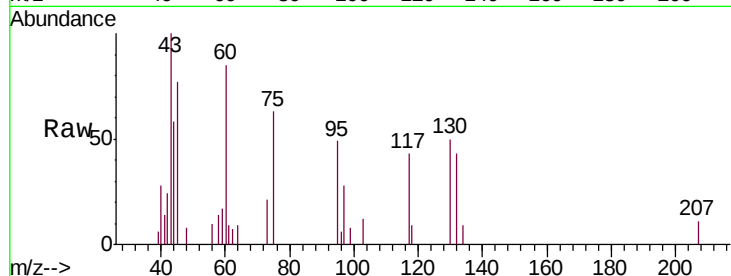
30738

Tgt Ion:130 Resp: 984

Ion Ratio Lower Upper

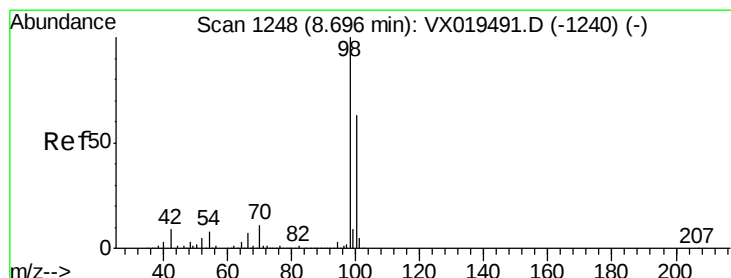
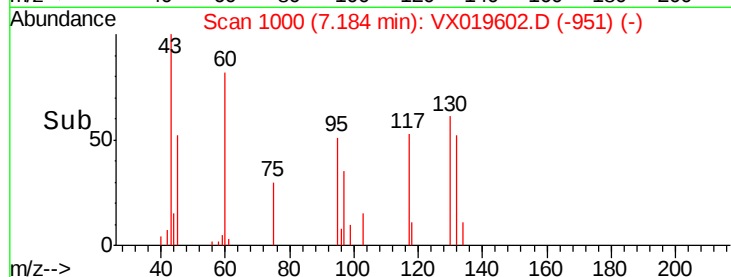
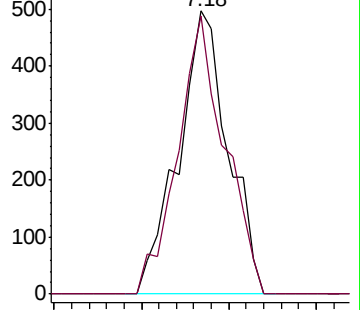
130 100

95 98.2 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 49.231 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019602.D

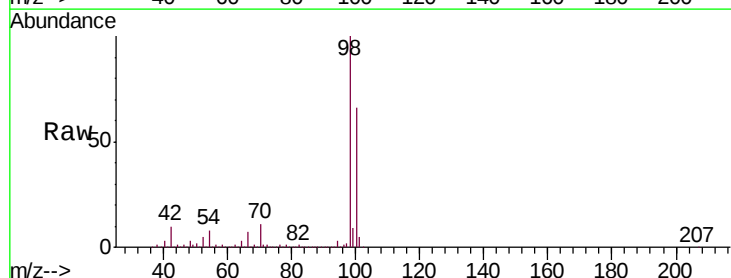
Acq: 24 Nov 2020 13:58

Tgt Ion: 98 Resp: 606721

Ion Ratio Lower Upper

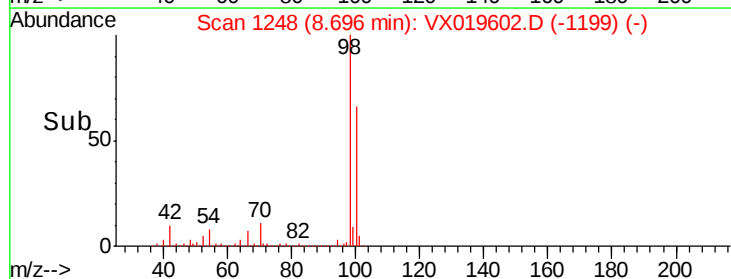
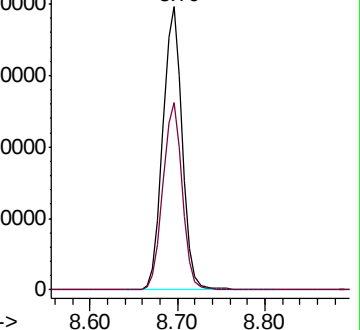
98 100

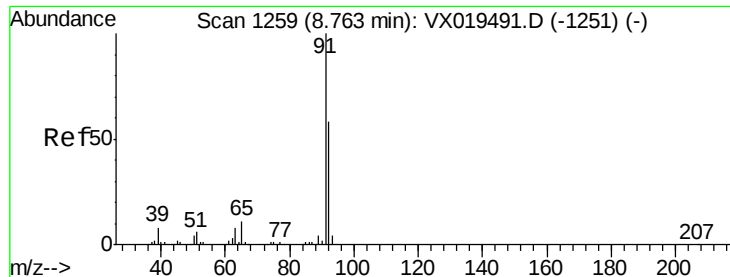
100 66.2 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 0.429 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

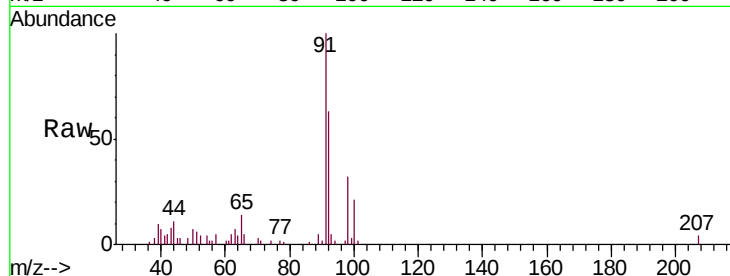
30738

Tgt Ion: 92 Resp: 3822

Ion Ratio Lower Upper

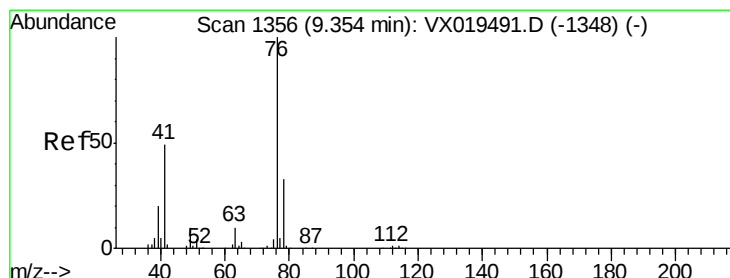
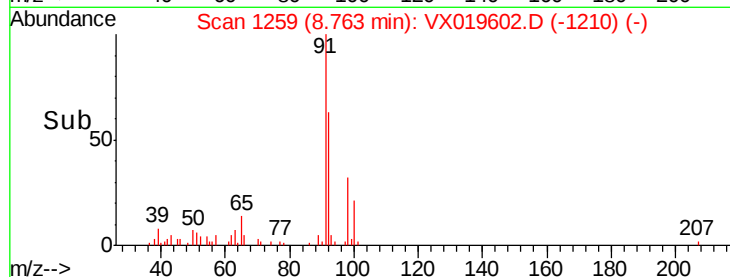
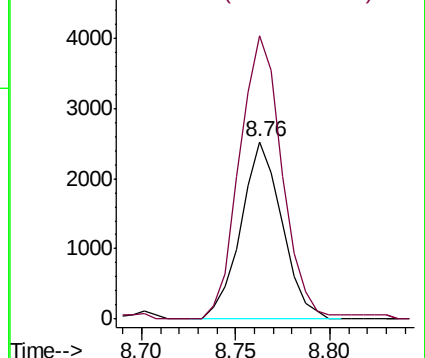
92 100

91 165.0 138.1 207.1



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#57

1,3-Dichloropropane

Concen: 0.320 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX019602.D

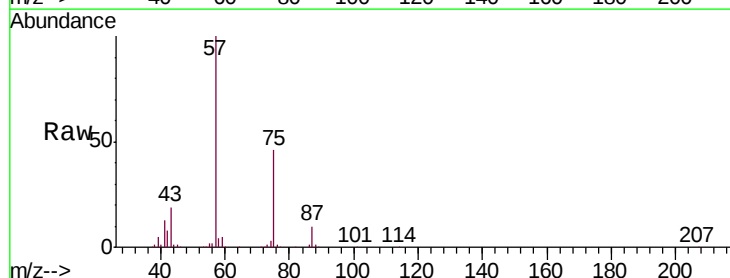
Acq: 24 Nov 2020 13:58

Tgt Ion: 76 Resp: 1945

Ion Ratio Lower Upper

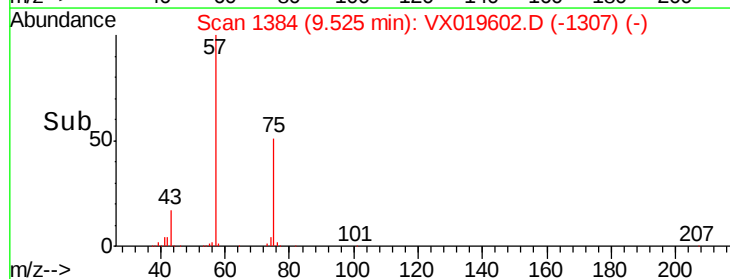
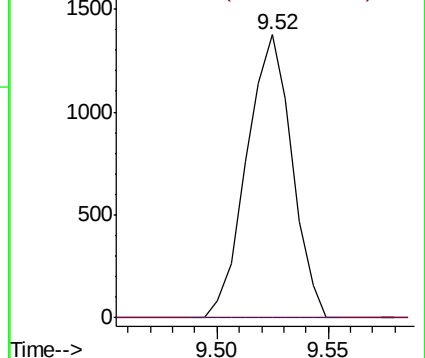
76 100

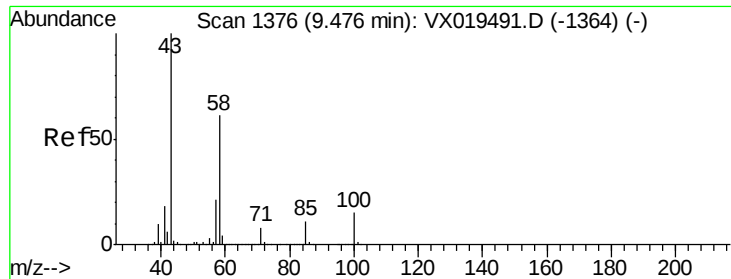
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

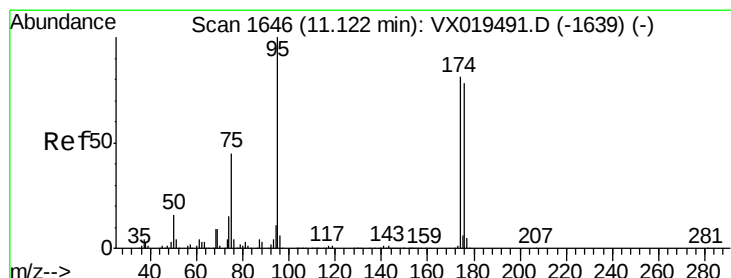
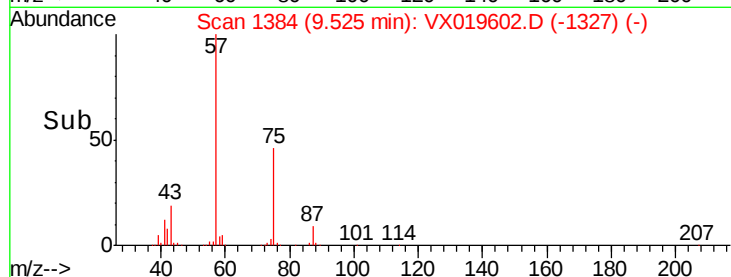
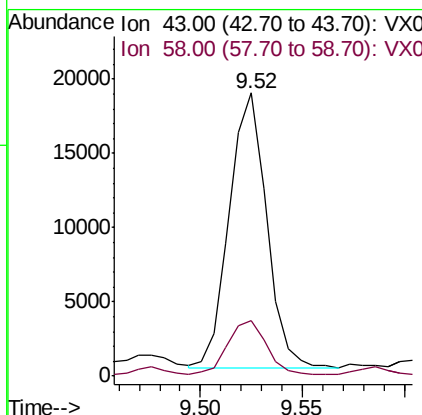
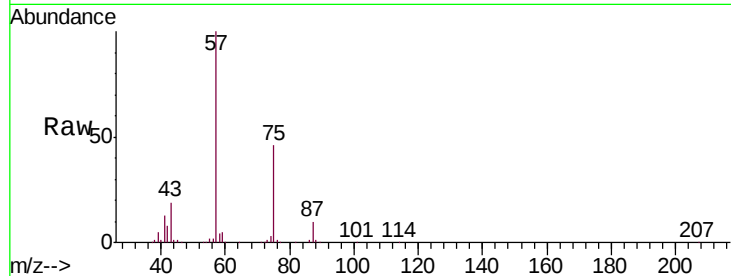




#59
2-Hexanone
Concen: 7.068 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX019602.D
Acq: 24 Nov 2020 13:58

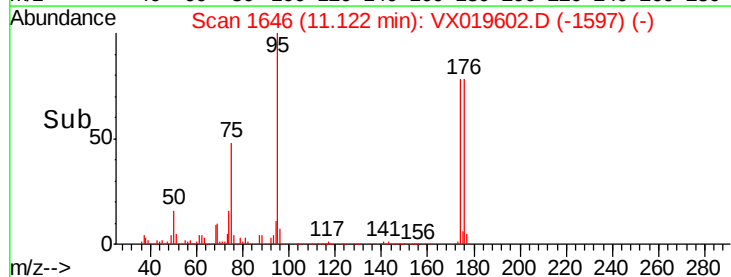
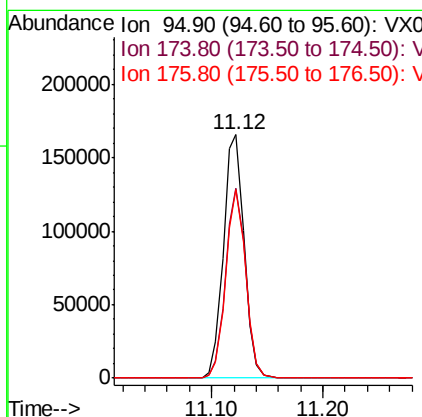
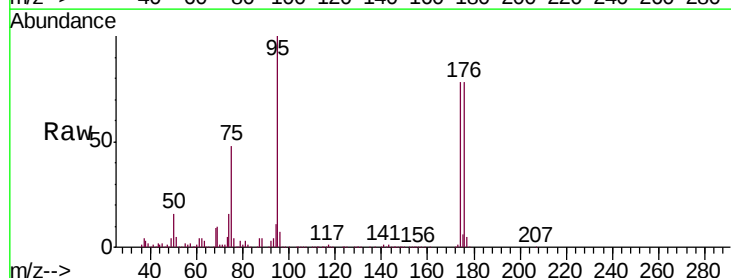
Instrument :
MSVOA_X
ClientSampleId :
30738

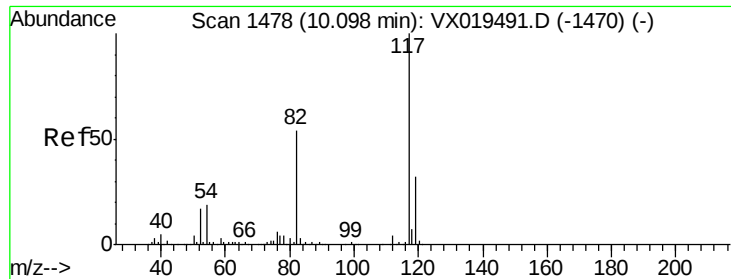
Tgt Ion: 43 Resp: 23365
Ion Ratio Lower Upper
43 100
58 21.1 30.6 91.6#



#62
4-Bromofluorobenzene
Concen: 48.010 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019602.D
Acq: 24 Nov 2020 13:58

Tgt Ion: 95 Resp: 212875
Ion Ratio Lower Upper
95 100
174 75.9 0.0 156.2
176 74.6 0.0 151.4

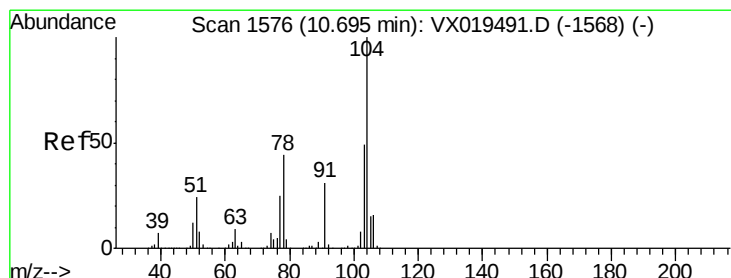
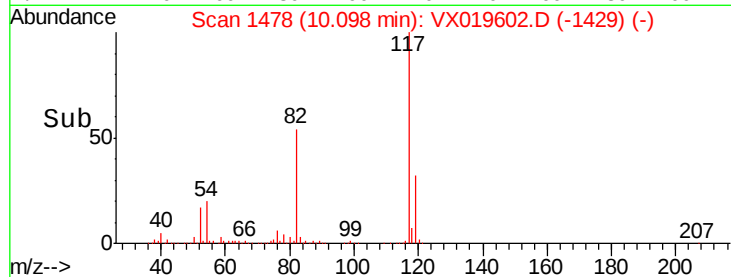
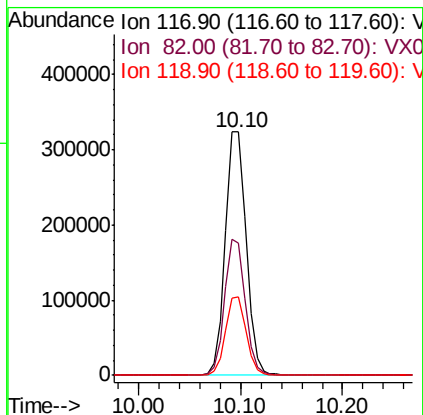
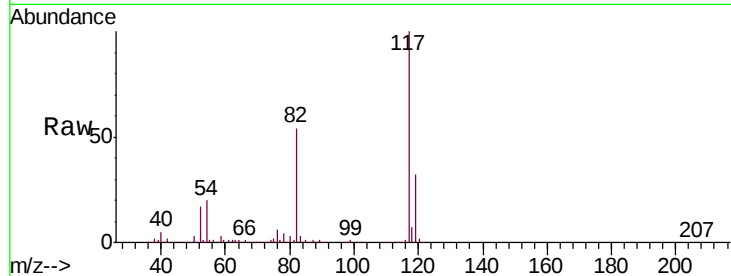




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019602.D
Acq: 24 Nov 2020 13:58

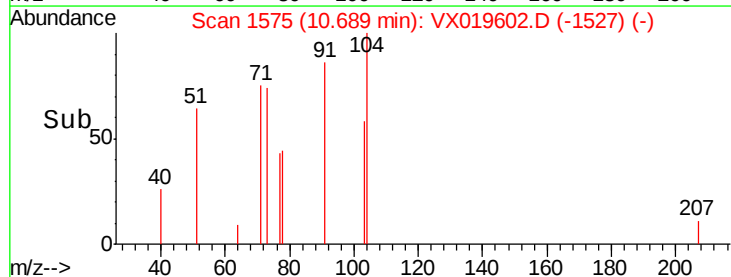
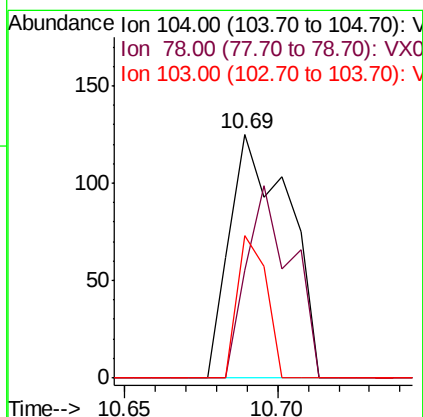
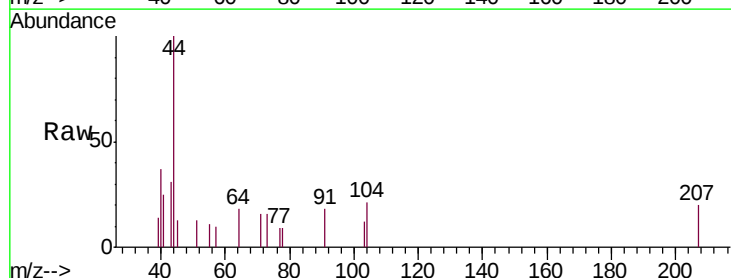
Instrument :
MSVOA_X
ClientSampled :
30738

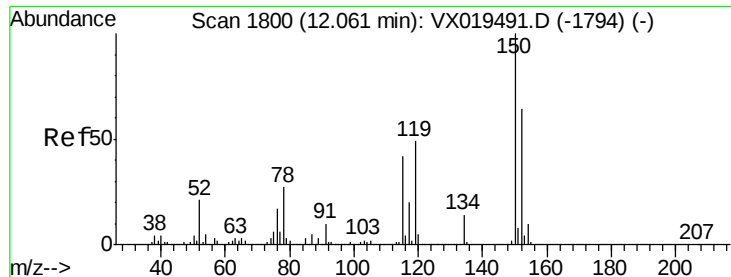
Tgt Ion:117 Resp: 462053
Ion Ratio Lower Upper
117 100
82 54.3 43.0 64.4
119 32.4 25.6 38.4



#70
Styrene
Concen: 1.661 ug/l
RT: 10.69 min Scan# 1575
Delta R.T. -0.01 min
Lab File: VX019602.D
Acq: 24 Nov 2020 13:58

Tgt Ion:104 Resp: 168
Ion Ratio Lower Upper
104 100
78 60.1 39.5 59.3#
103 28.6 43.6 65.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

30738

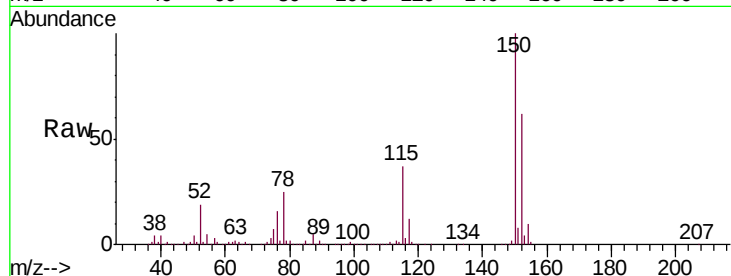
Tgt Ion:152 Resp: 191587

Ion Ratio Lower Upper

152 100

115 60.4 41.8 125.4

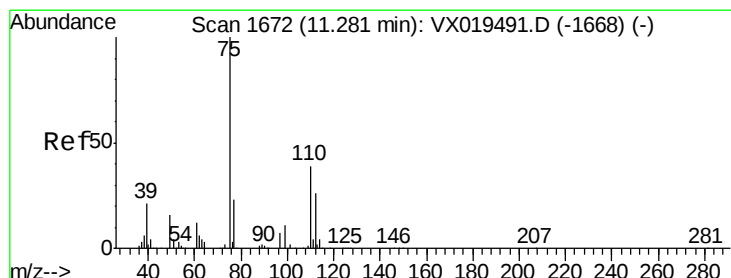
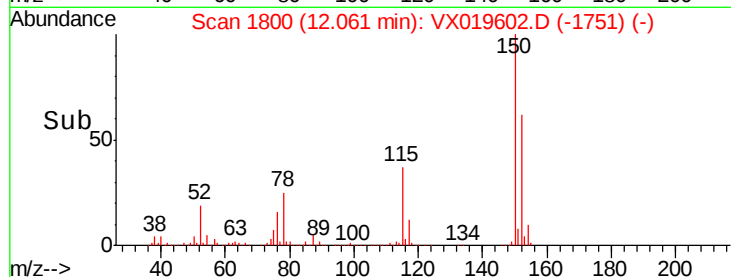
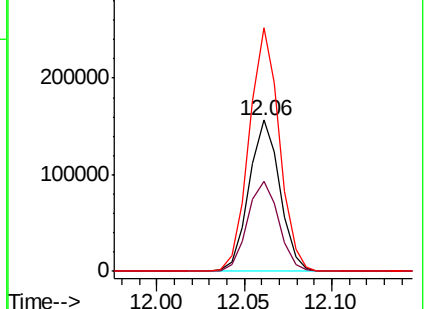
150 158.0 0.0 348.2



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: 24.775 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019602.D

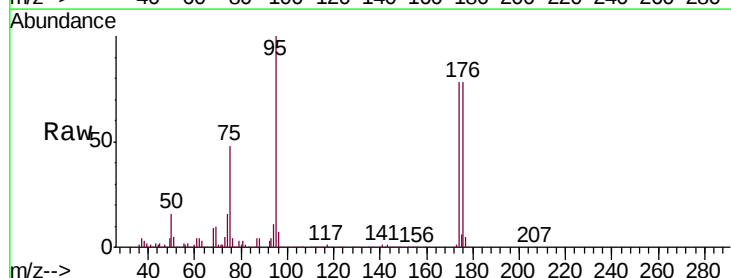
Acq: 24 Nov 2020 13:58

Tgt Ion: 75 Resp: 103588

Ion Ratio Lower Upper

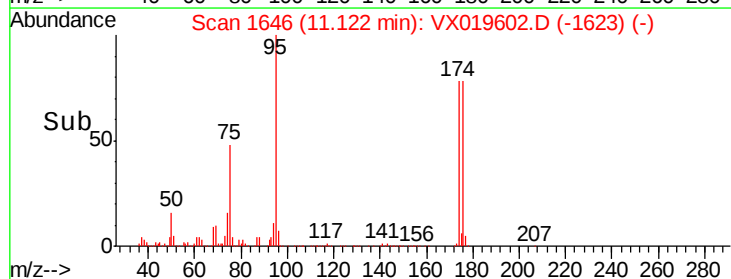
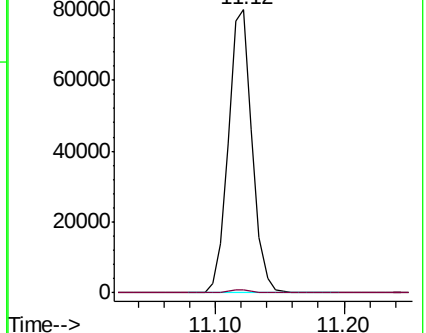
75 100

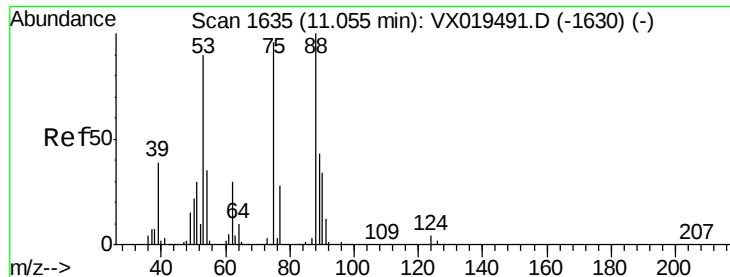
77 1.2 20.0 60.0#



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: 65.484 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

Instrument :

MSVOA_X

ClientSampled :

30738

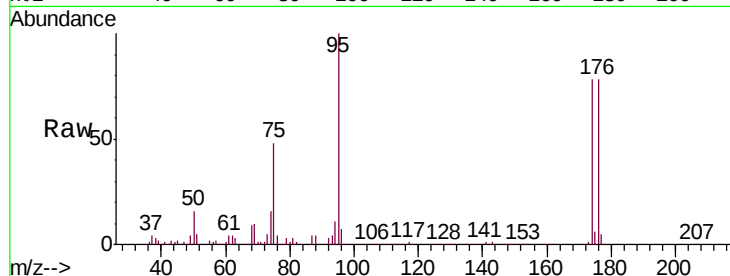
Tgt Ion: 75 Resp: 103588

Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

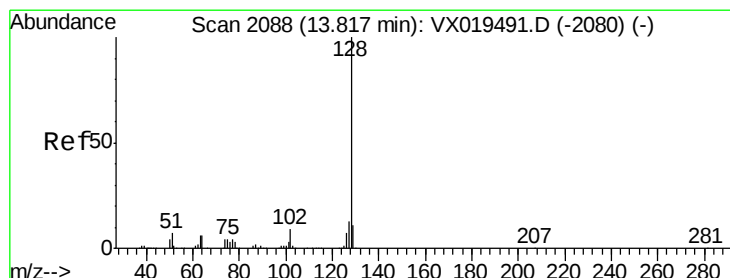
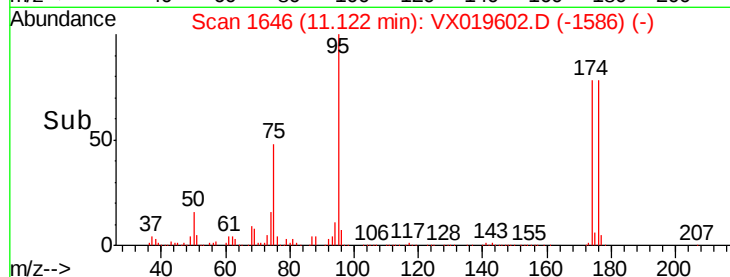
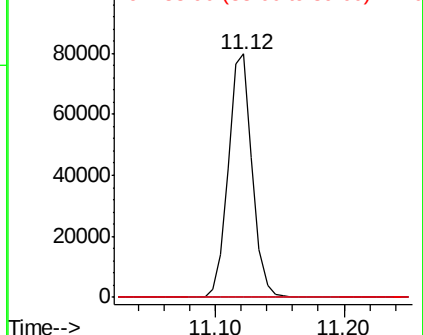
89 0.0 37.3 55.9#



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: 2.216 ug/l

RT: 13.81 min Scan# 2087

Delta R.T. -0.01 min

Lab File: VX019602.D

Acq: 24 Nov 2020 13:58

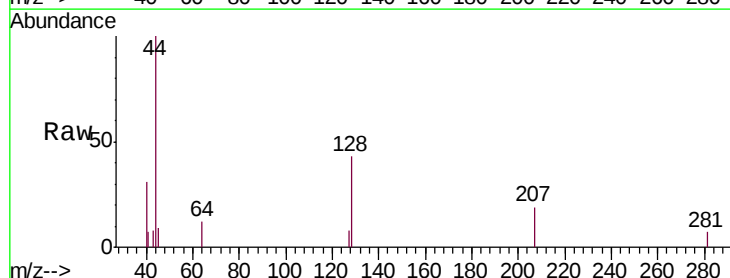
Tgt Ion: 128 Resp: 566

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

129 0.0 8.7 13.1#



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

