

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112120\
 Data File : VX019522.D
 Acq On : 21 Nov 2020 03:10
 Operator : JC/MD
 Sample : L4779-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1623

Quant Time: Nov 21 06:30:10 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	5.62	168	323562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	521378	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	449262	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	194737	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	192388	45.86	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	91.72%
35) Dibromofluoromethane	5.46	113	153500	46.90	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.80%
50) Toluene-d8	8.70	98	612589	48.17	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	96.34%
62) 4-Bromofluorobenzene	11.12	95	211511	46.23	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.46%

Target Compounds

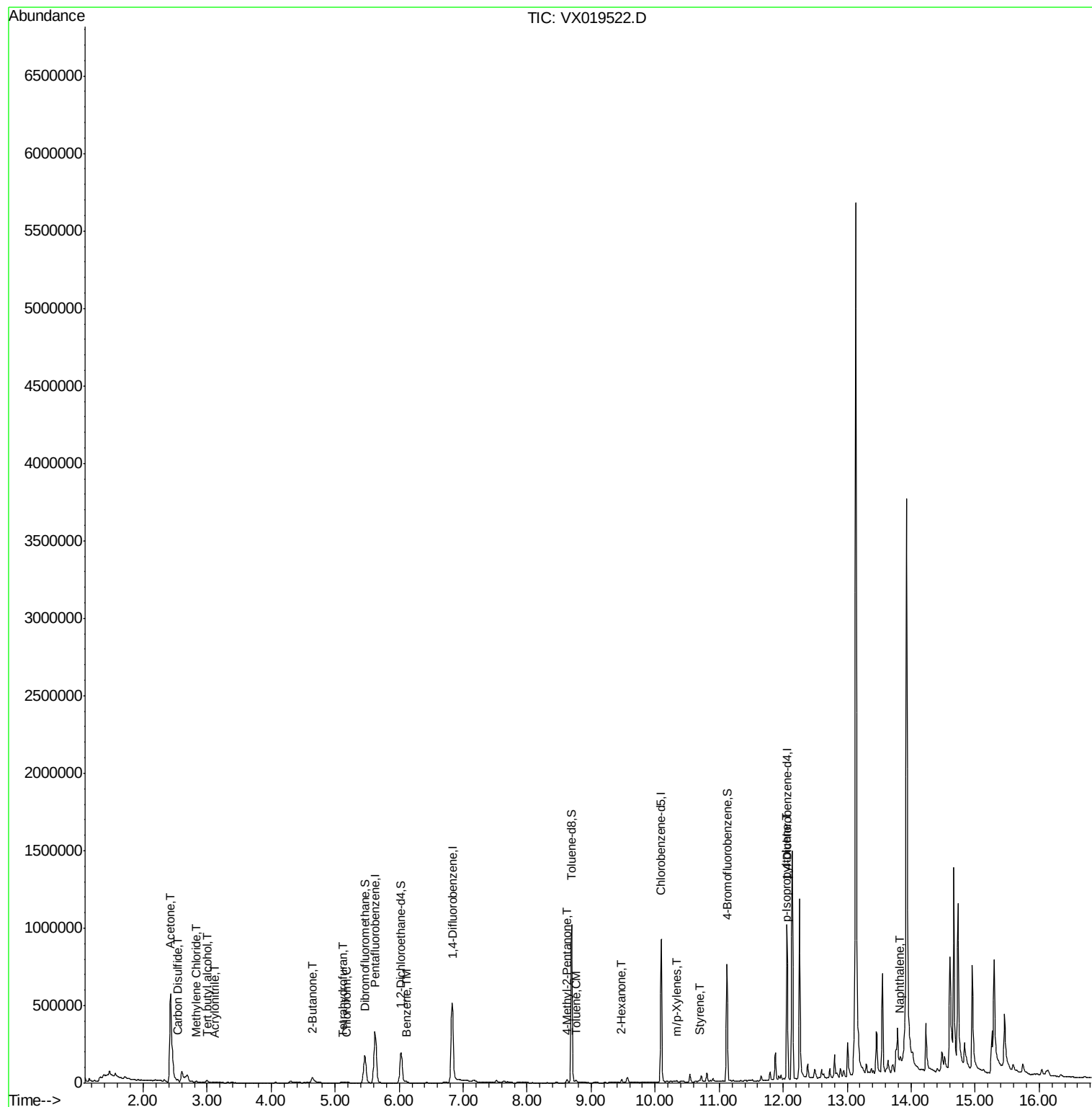
					Qvalue
11) Tert butyl alcohol	3.00	59	10242	12.900	ug/l # 80
15) Acrylonitrile	3.12	53	2339	1.249	ug/l 96
16) Acetone	2.43	43	724102	446.321	ug/l 100
17) Carbon Disulfide	2.54	76	21733	2.518	ug/l 95
20) Methylene Chloride	2.83	84	3431	0.846	ug/l # 84
25) 2-Butanone	4.64	43	68276	28.015	ug/l 97
29) Tetrahydrofuran	5.11	42	3558	2.288	ug/l # 89
30) Chloroform	5.17	83	3548	0.533	ug/l 97
40) Benzene	6.12	78	10654	0.709	ug/l 97
51) 4-Methyl-2-Pentanone	8.62	43	12341	2.744	ug/l 95
52) Toluene	8.77	92	3996	0.435	ug/l 94
59) 2-Hexanone	9.48	43	12100	3.547	ug/l 100
68) m/p-Xylenes	10.34	106	1718	0.285	ug/l 85
70) Styrene	10.70	104	4075	2.015	ug/l 95
86) p-Isopropyltoluene	12.05	119	15583	1.320	ug/l 93
95) Naphthalene	13.82	128	4340	2.467	ug/l # 75

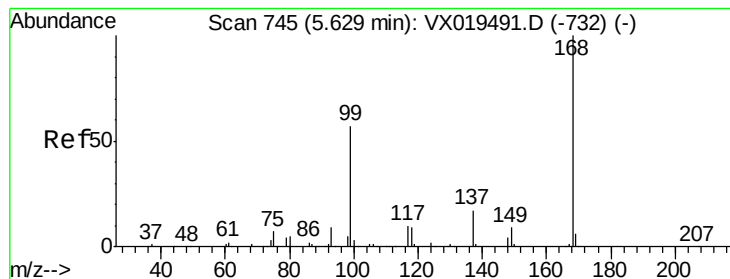
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX019522.D

Acq: 21 Nov 2020 03:10

Instrument :

MSVOA_X

ClientSampleId :

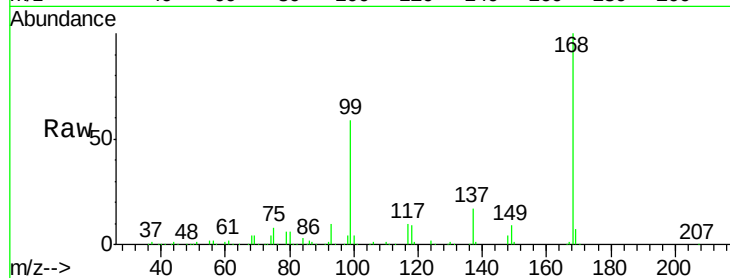
1623

Tot Ion:168 Resp: 323562

Ion Ratio Lower Upper

168 100

99 58.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

120000

100000

80000

60000

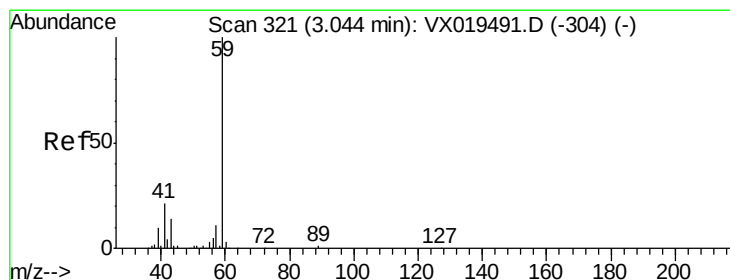
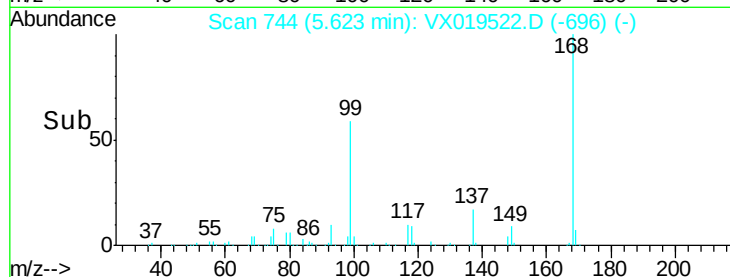
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 12.900 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.05 min

Lab File: VX019522.D

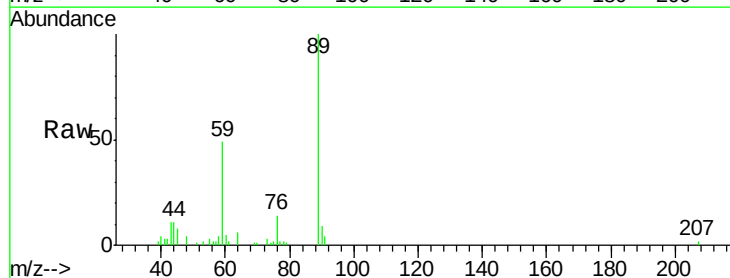
Acq: 21 Nov 2020 03:10

Tgt Ion: 59 Resp: 10242

Ion Ratio Lower Upper

59 100

57 2.6 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

3000

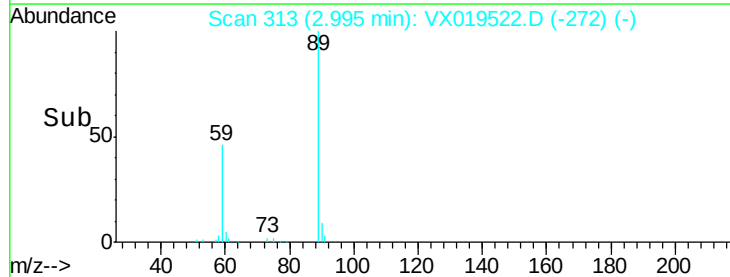
2000

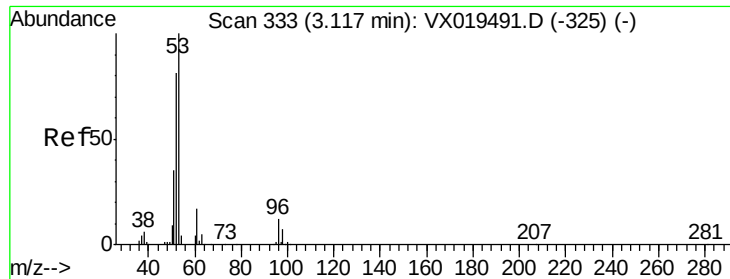
1000

0

Time-->

2.90 2.95 3.00 3.05 3.10





#15

Acrylonitrile

Concen: 1.249 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX019522.D

Acq: 21 Nov 2020 03:10

Instrument :

MSVOA_X

ClientSampleId :

1623

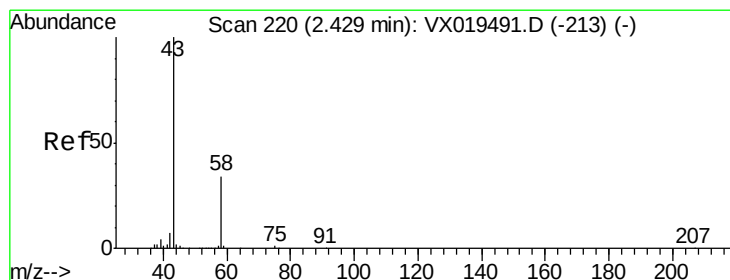
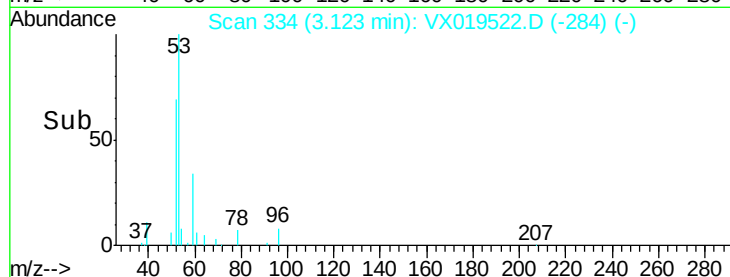
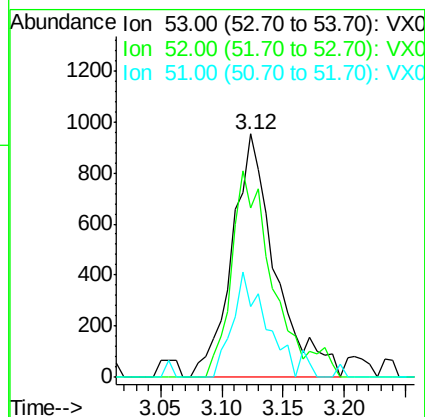
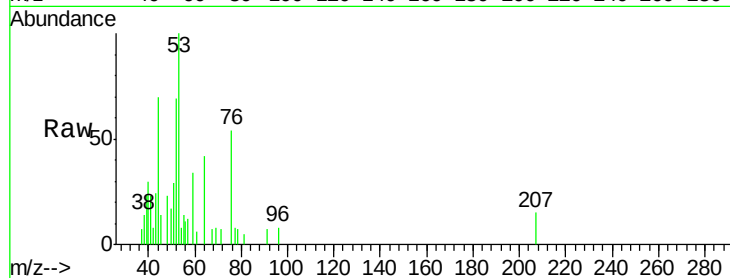
Tot Ion: 53 Resp: 2339

Ion Ratio Lower Upper

53 100

52 78.8 66.2 99.2

51 33.1 28.5 42.7



#16

Acetone

Concen: 446.321 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019522.D

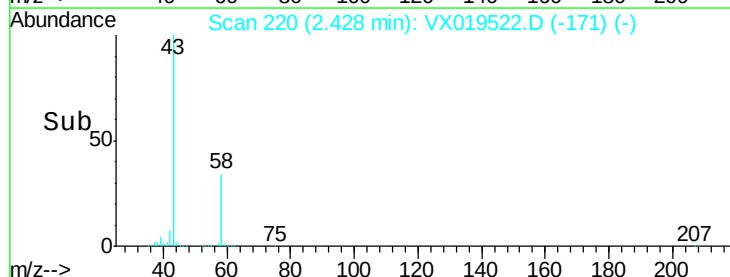
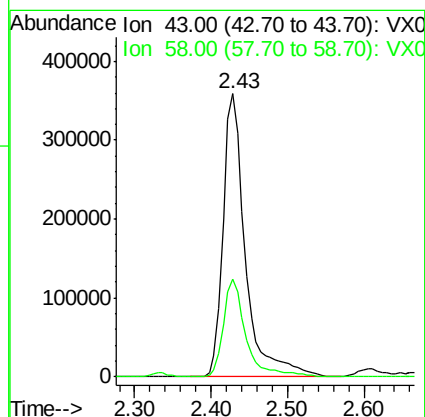
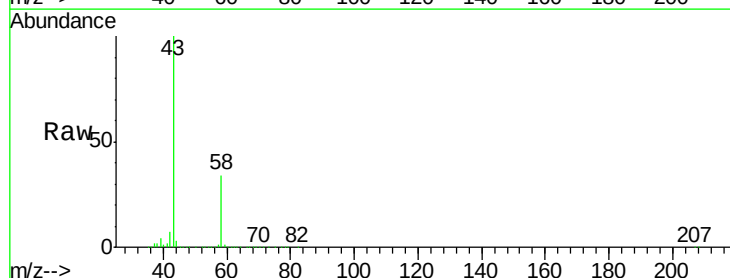
Acq: 21 Nov 2020 03:10

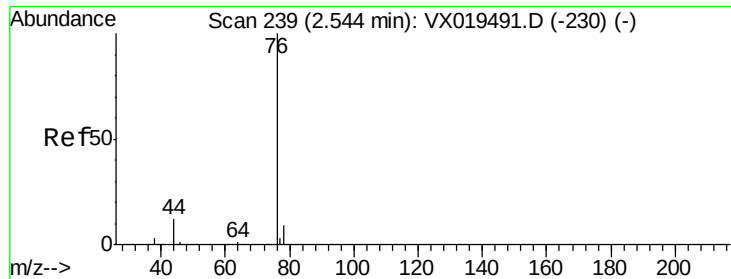
Tgt Ion: 43 Resp: 724102

Ion Ratio Lower Upper

43 100

58 34.4 27.4 41.2





#17

Carbon Disulfide

Concen: 2.518 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.00 min

Lab File: VX019522.D

Acq: 21 Nov 2020 03:10

Instrument :

MSVOA_X

ClientSampled :

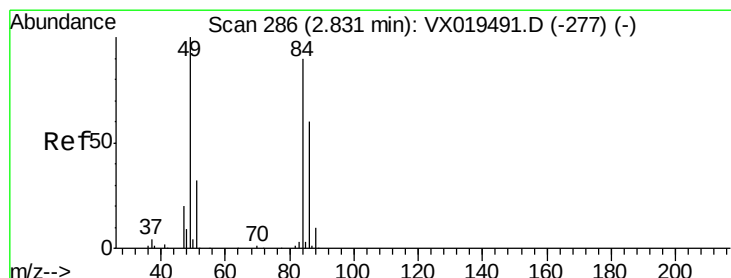
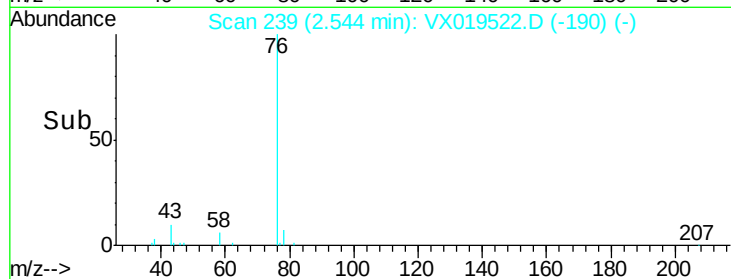
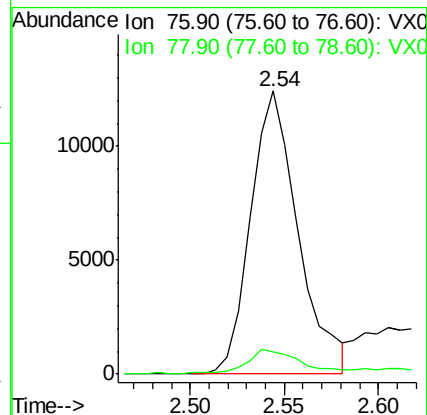
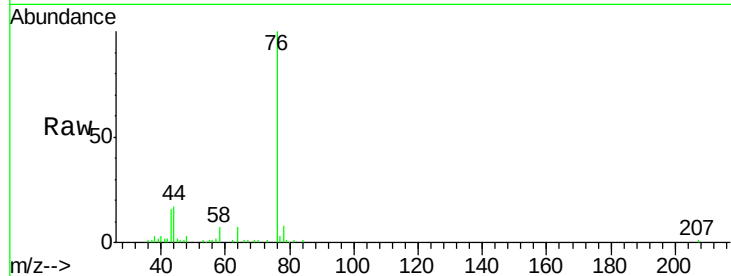
1623

Tot Ion: 76 Resp: 21733

Ion Ratio Lower Upper

76 100

78 7.3 7.2 10.8



#20

Methylene Chloride

Concen: 0.846 ug/l

RT: 2.83 min Scan# 286

Delta R.T. -0.00 min

Lab File: VX019522.D

Acq: 21 Nov 2020 03:10

Tgt Ion: 84 Resp: 3431

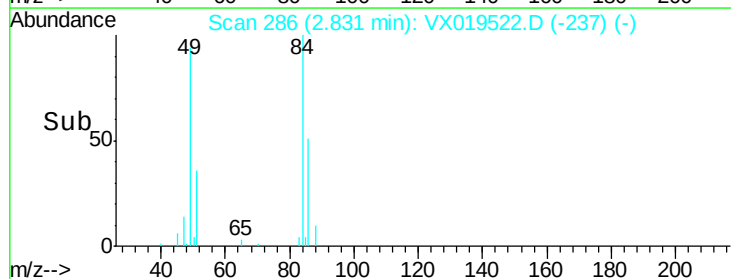
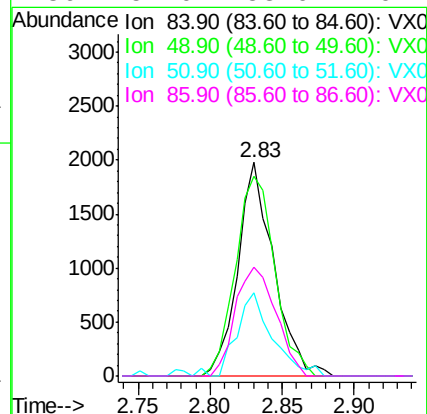
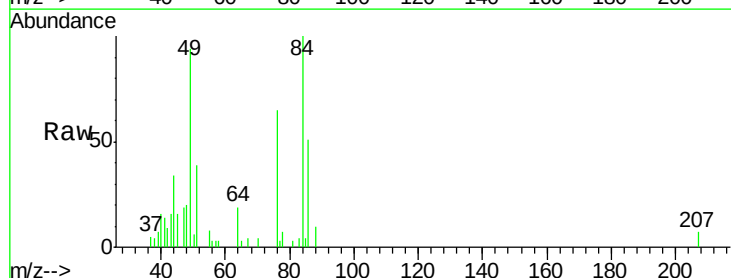
Ion Ratio Lower Upper

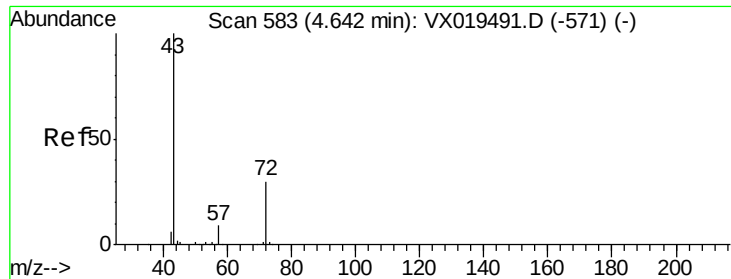
84 100

49 93.6 88.5 132.7

51 39.1 28.0 42.0

86 51.0 53.0 79.4#





#25

2-Butanone

Concen: 28.015 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX019522.D

Acq: 21 Nov 2020 03:10

Instrument :

MSVOA_X

ClientSampleId :

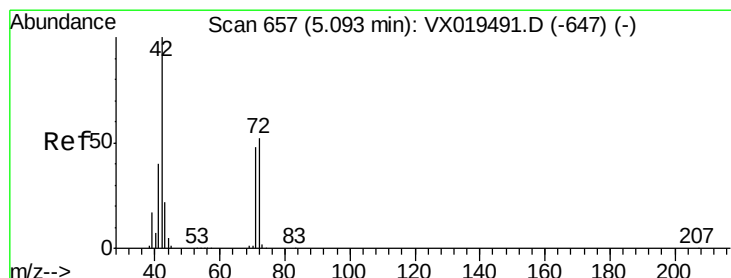
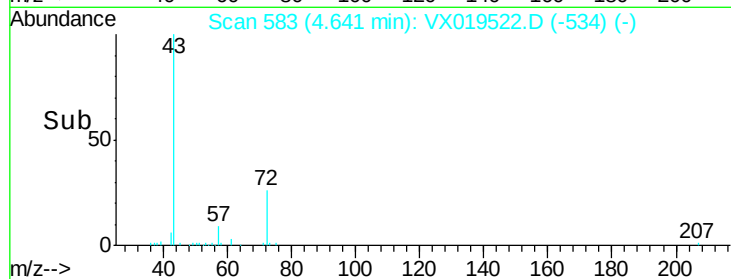
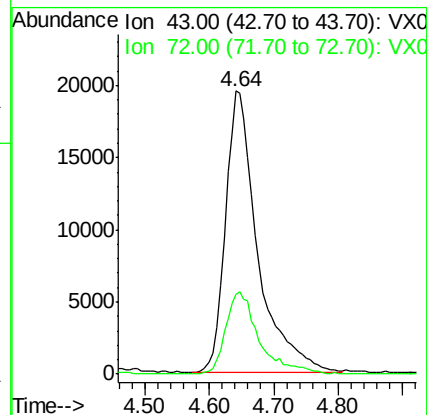
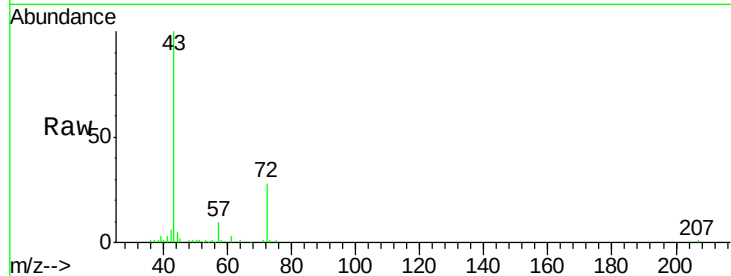
1623

Tot Ion: 43 Resp: 68276

Ion Ratio Lower Upper

43 100

72 28.4 24.0 36.0



#29

Tetrahydrofuran

Concen: 2.288 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX019522.D

Acq: 21 Nov 2020 03:10

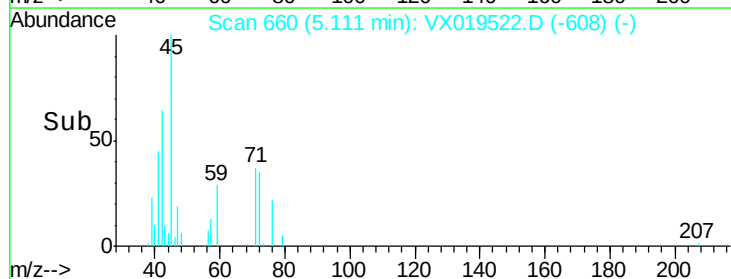
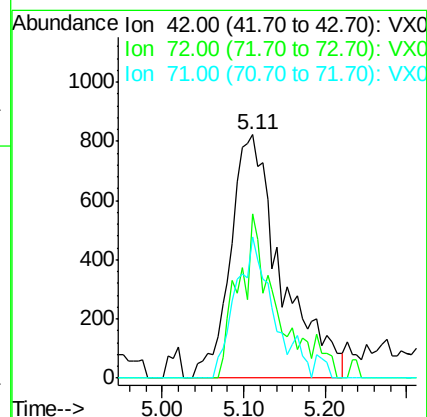
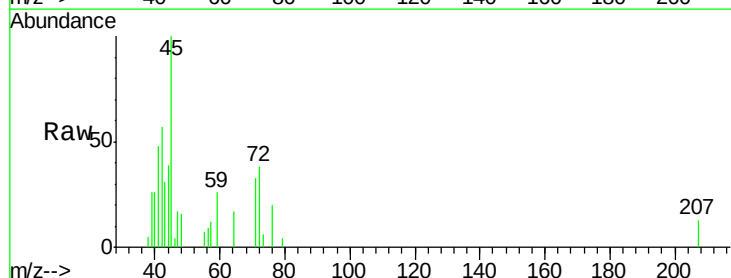
Tgt Ion: 42 Resp: 3558

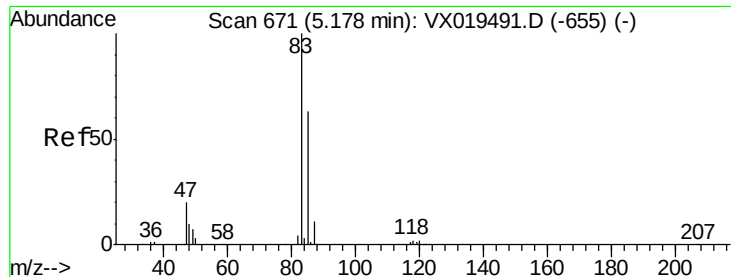
Ion Ratio Lower Upper

42 100

72 47.3 42.6 63.8

71 38.8 39.0 58.6#

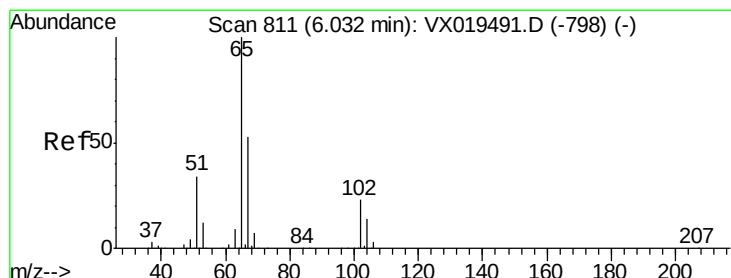
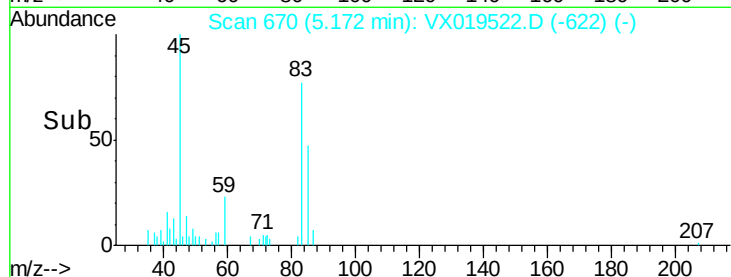
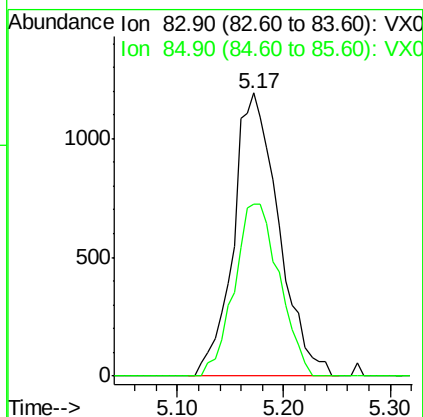
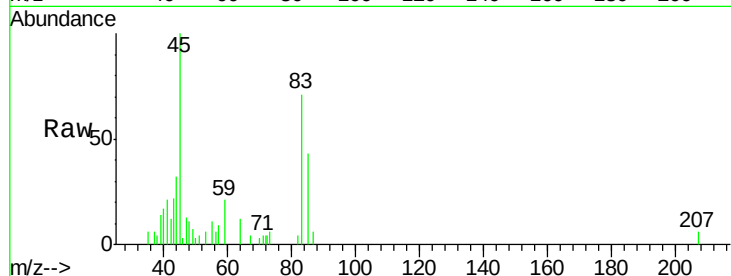




#30
Chloroform
Concen: 0.533 ug/l
RT: 5.17 min Scan# 670
Delta R.T. -0.01 min
Lab File: VX019522.D
Acq: 21 Nov 2020 03:10

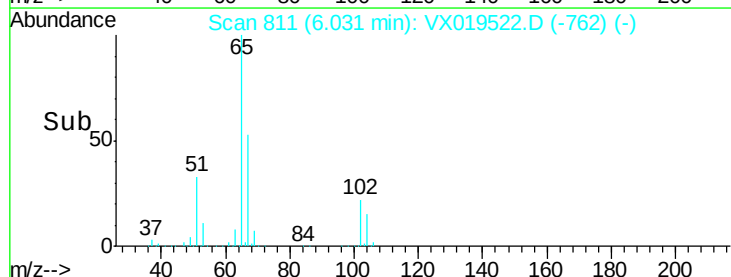
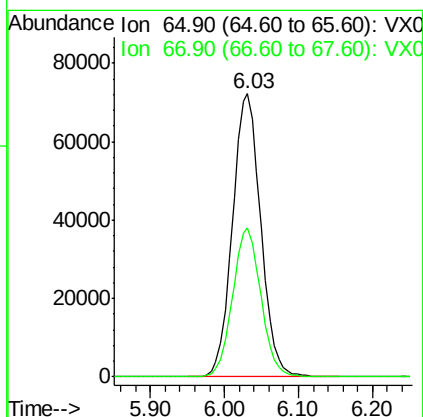
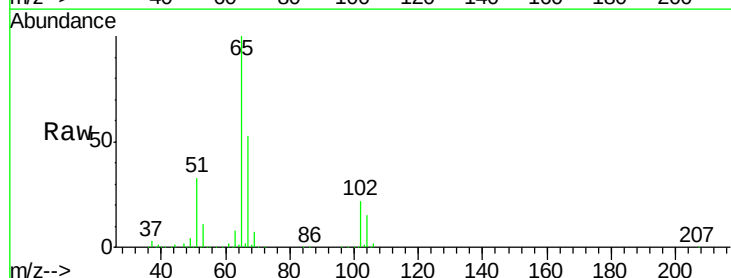
Instrument :
MSVOA_X
ClientSampled :
1623

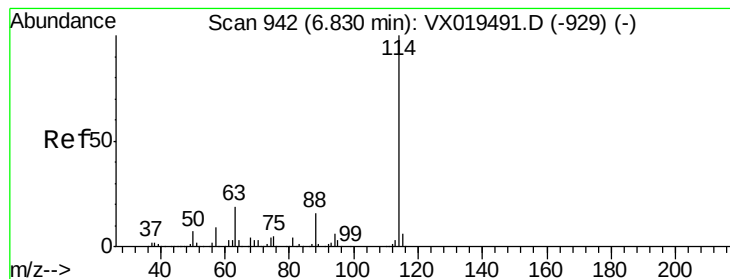
Tot Ion: 83 Resp: 3548
Ion Ratio Lower Upper
83 100
85 60.6 50.5 75.7



#33
1,2-Dichloroethane-d4
Concen: 45.858 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX019522.D
Acq: 21 Nov 2020 03:10

Tgt Ion: 65 Resp: 192388
Ion Ratio Lower Upper
65 100
67 52.6 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019522.D

Acq: 21 Nov 2020 03:10

Instrument :

MSVOA_X

ClientSampleId :

1623

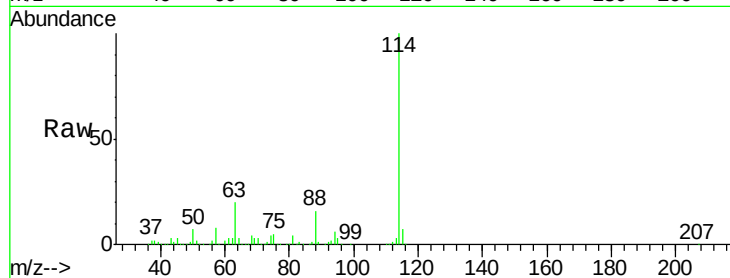
Tot Ion:114 Resp: 521378

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.8

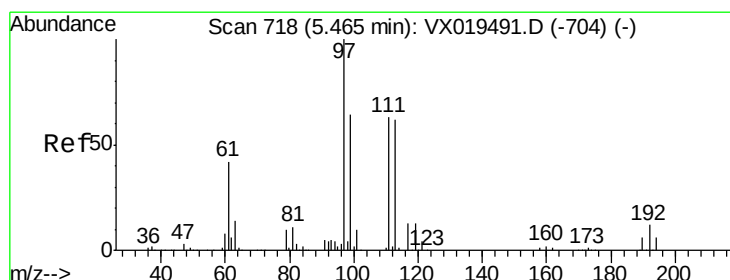
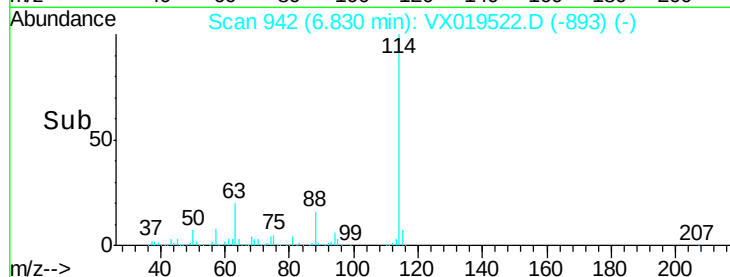
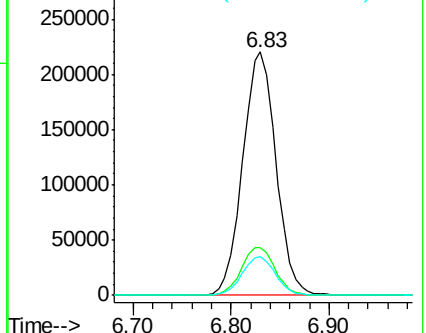
88 16.0 0.0 31.6



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: 46.903 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019522.D

Acq: 21 Nov 2020 03:10

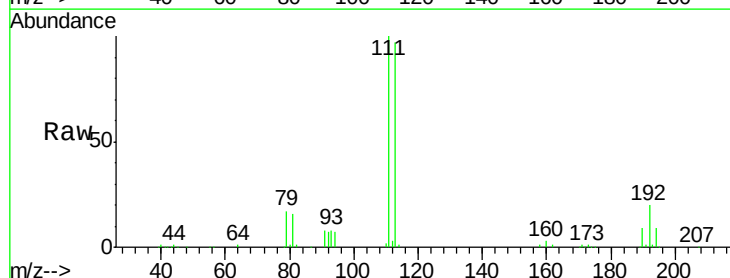
Tgt Ion:113 Resp: 153500

Ion Ratio Lower Upper

113 100

111 103.2 81.5 122.3

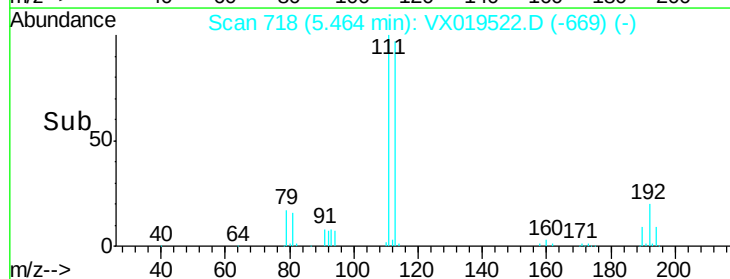
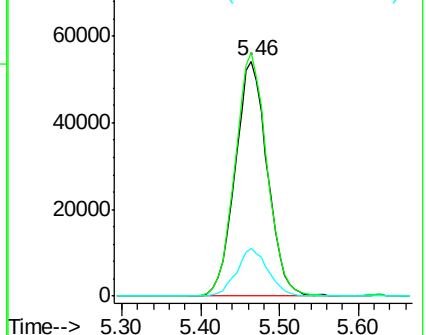
192 20.0 16.2 24.2

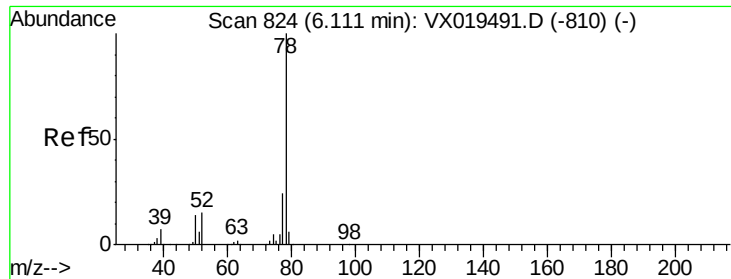


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 0.709 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX019522.D

Acq: 21 Nov 2020 03:10

Instrument :

MSVOA_X

ClientSampleId :

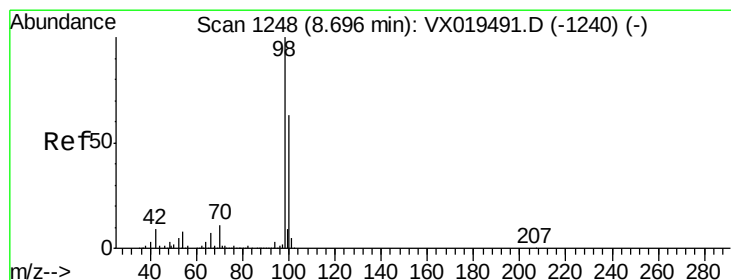
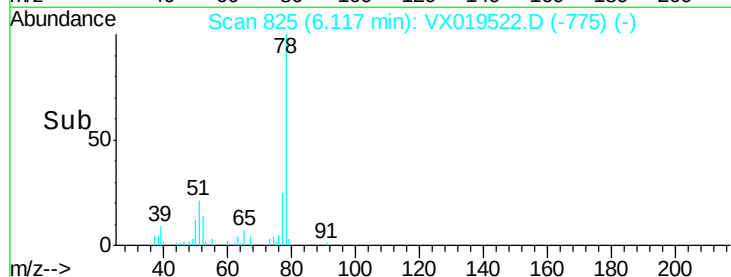
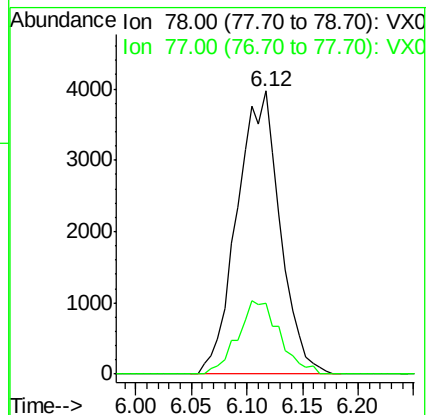
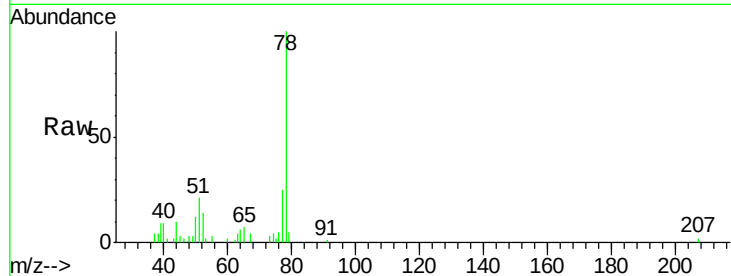
1623

Tot Ion: 78 Resp: 10654

Ion Ratio Lower Upper

78 100

77 24.9 18.9 28.3



#50

Toluene-d8

Concen: 48.170 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019522.D

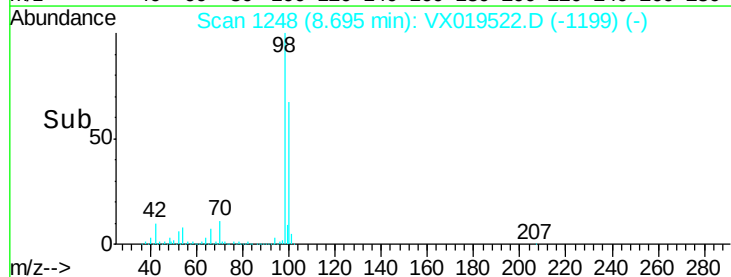
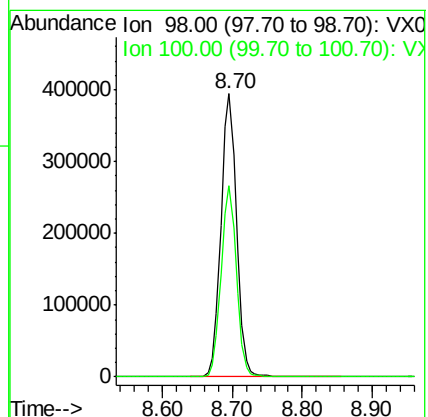
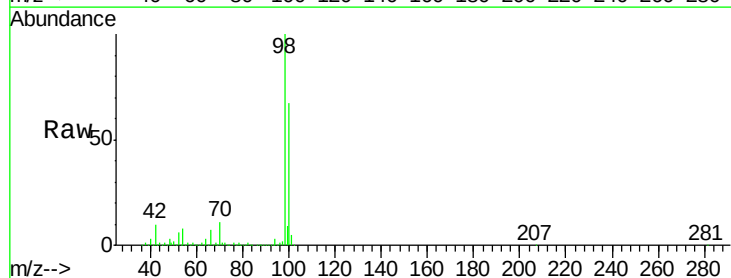
Acq: 21 Nov 2020 03:10

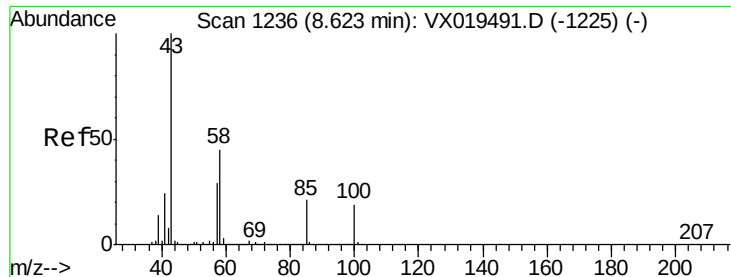
Tgt Ion: 98 Resp: 612589

Ion Ratio Lower Upper

98 100

100 66.2 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 2.744 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX019522.D

Acq: 21 Nov 2020 03:10

Instrument :

MSVOA_X

ClientSampled :

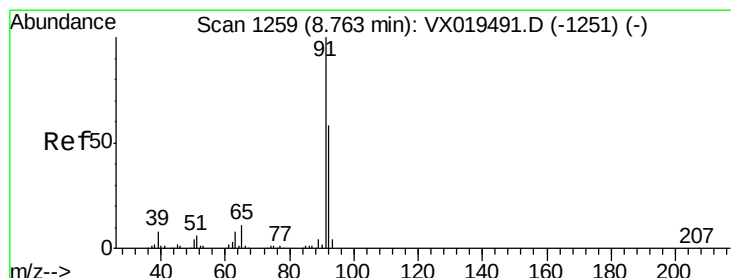
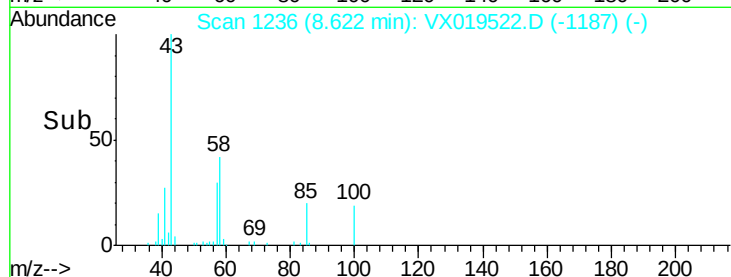
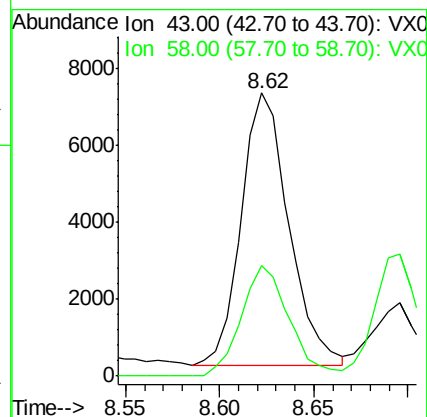
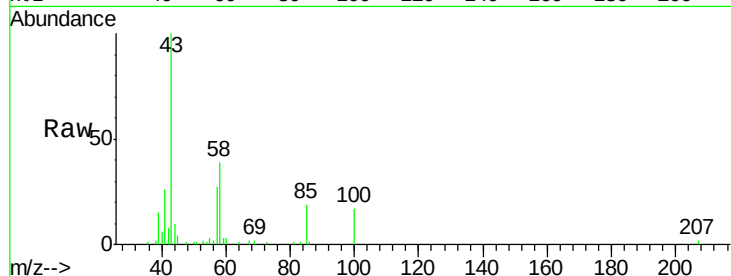
1623

Tot Ion: 43 Resp: 12341

Ion Ratio Lower Upper

43 100

58 40.9 35.1 52.7



#52

Toluene

Concen: 0.435 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX019522.D

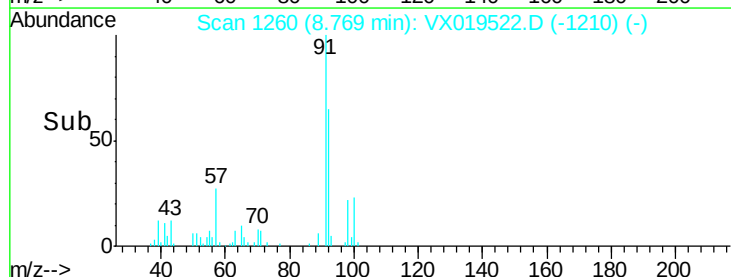
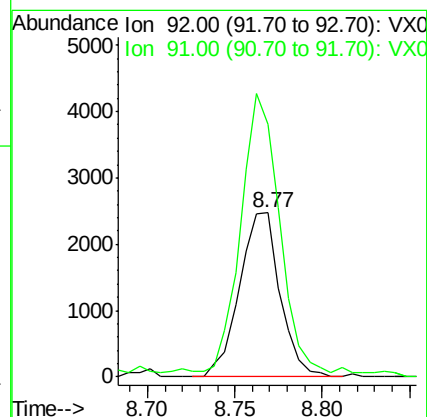
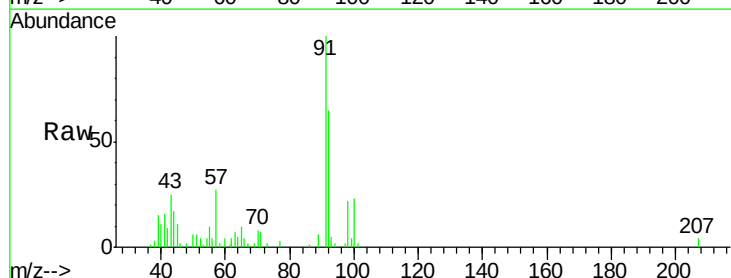
Acq: 21 Nov 2020 03:10

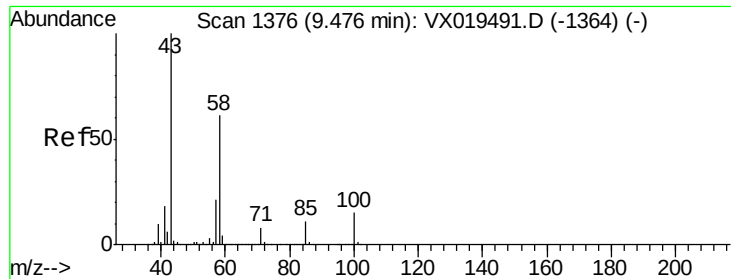
Tgt Ion: 92 Resp: 3996

Ion Ratio Lower Upper

92 100

91 164.6 138.1 207.1

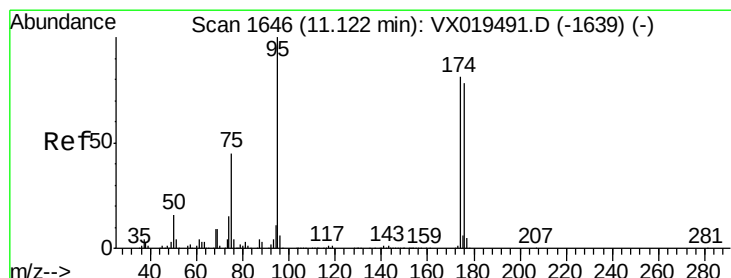
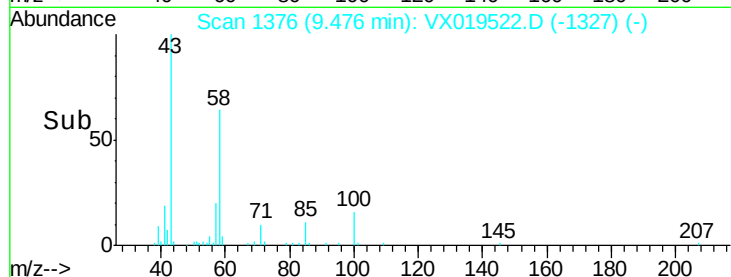
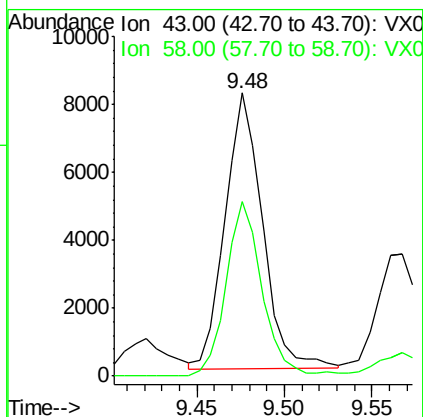
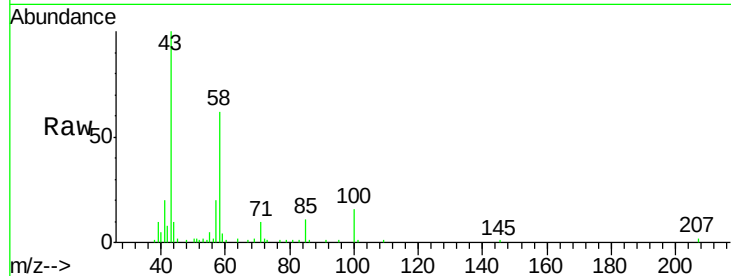




#59
2-Hexanone
Concen: 3.547 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. -0.00 min
Lab File: VX019522.D
Acq: 21 Nov 2020 03:10

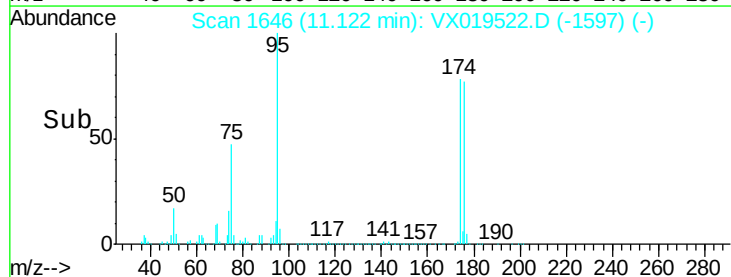
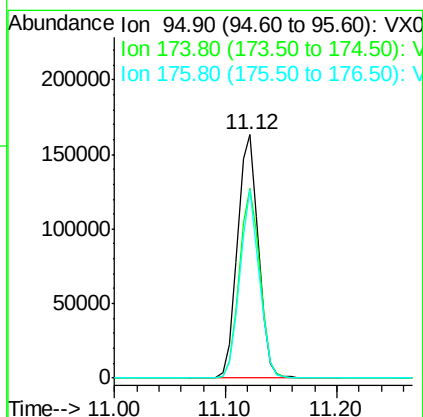
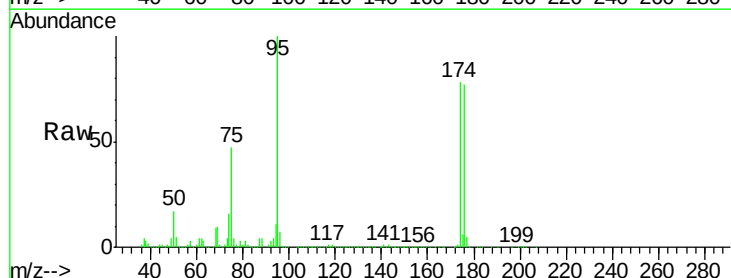
Instrument :
MSVOA_X
ClientSampleId :
1623

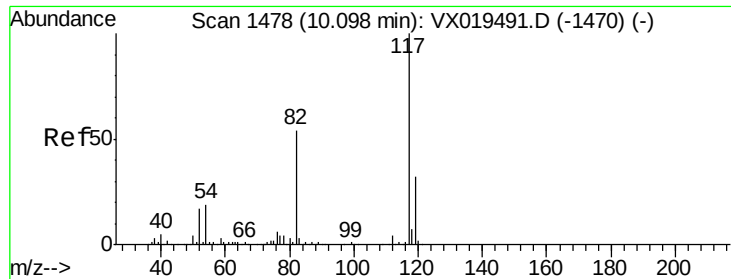
Tot Ion: 43 Resp: 12100
Ion Ratio Lower Upper
43 100
58 61.1 30.6 91.6



#62
4-Bromofluorobenzene
Concen: 46.227 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019522.D
Acq: 21 Nov 2020 03:10

Tgt Ion: 95 Resp: 211511
Ion Ratio Lower Upper
95 100
174 77.1 0.0 156.2
176 72.1 0.0 151.4

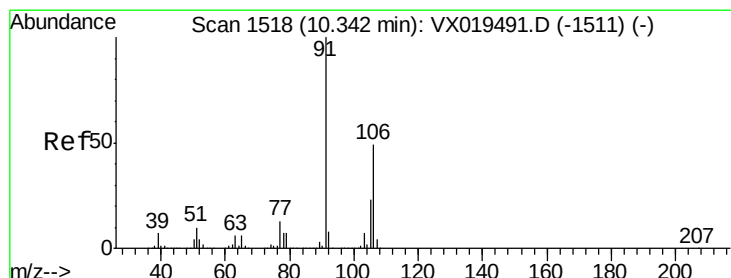
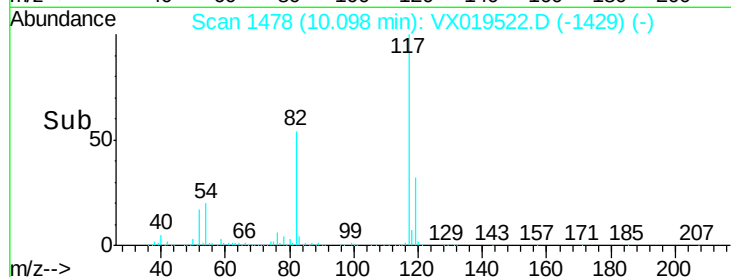
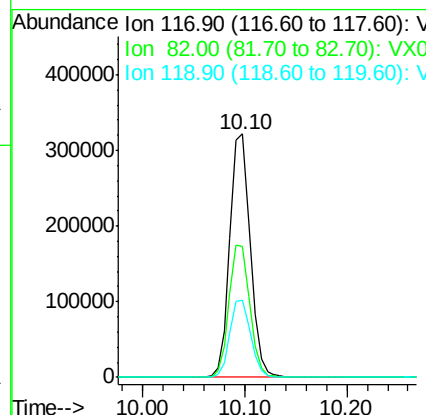
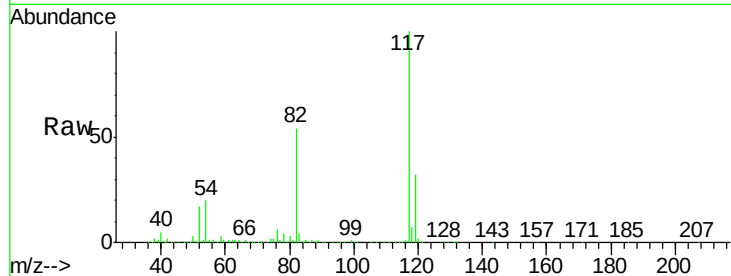




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019522.D
Acq: 21 Nov 2020 03:10

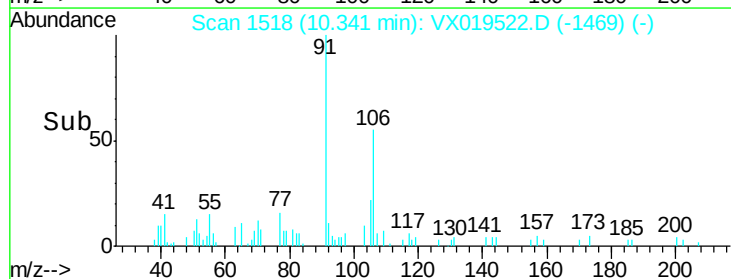
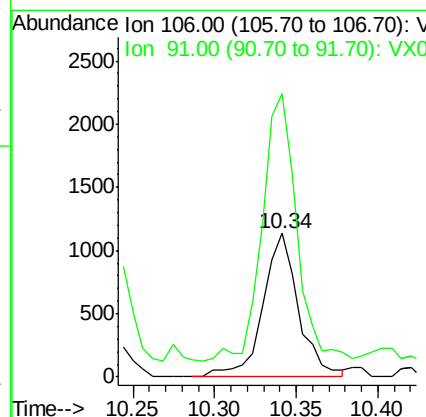
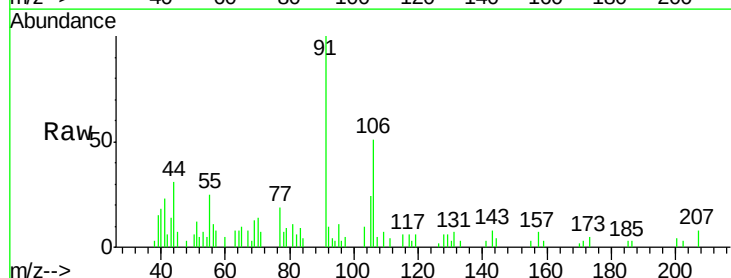
Instrument :
MSVOA_X
ClientSampleId :
1623

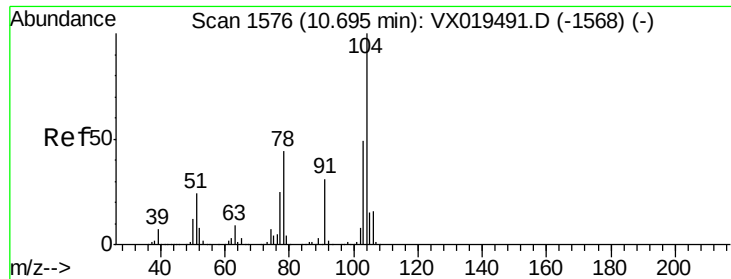
Tot Ion:117 Resp: 449262
Ion Ratio Lower Upper
117 100
82 53.8 43.0 64.4
119 31.9 25.6 38.4



#68
m/p-Xylenes
Concen: 0.285 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX019522.D
Acq: 21 Nov 2020 03:10

Tgt Ion:106 Resp: 1718
Ion Ratio Lower Upper
106 100
91 181.5 163.3 244.9

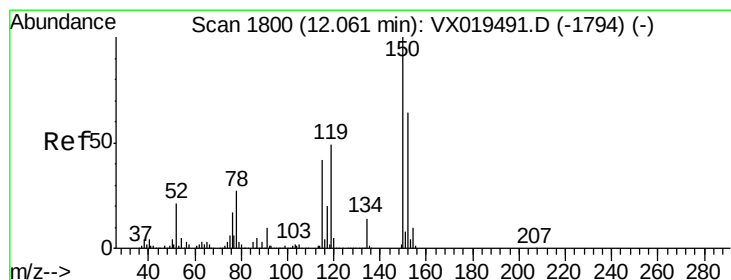
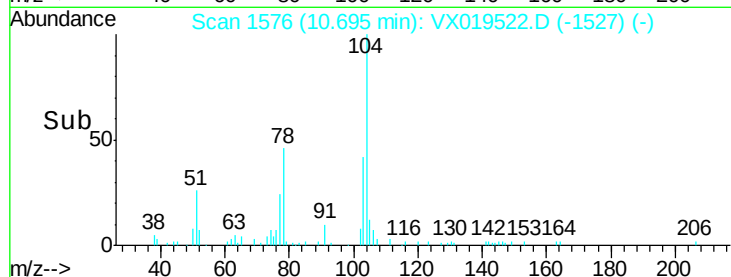
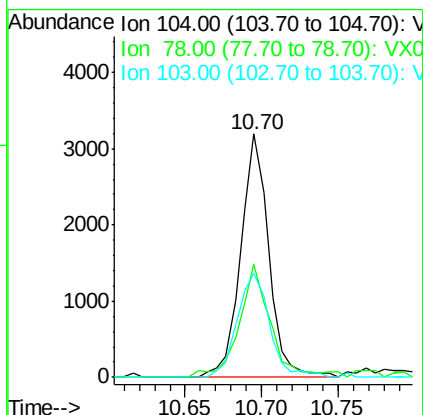
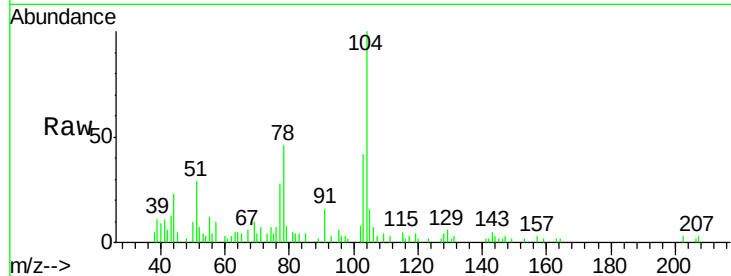




#70
Stvrene
Concen: 2.015 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019522.D
Acq: 21 Nov 2020 03:10

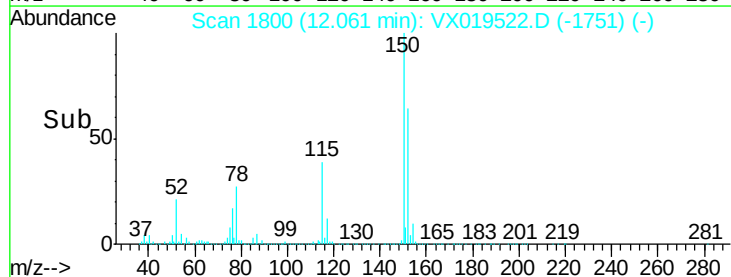
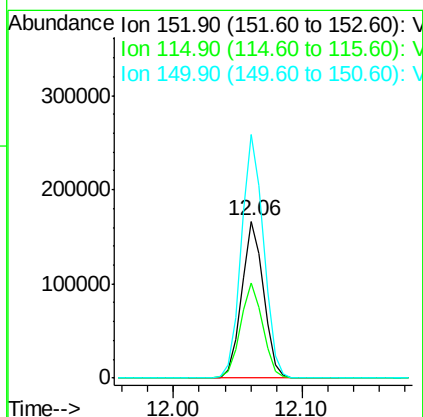
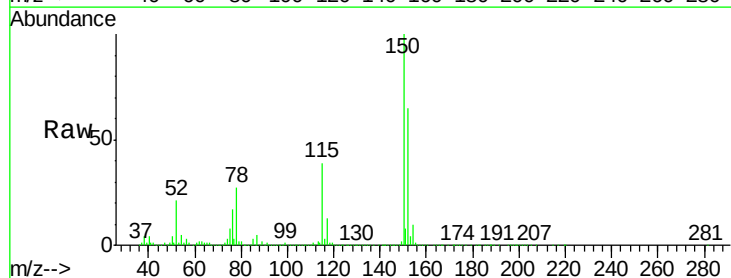
Instrument :
MSVOA_X
ClientSampleId :
1623

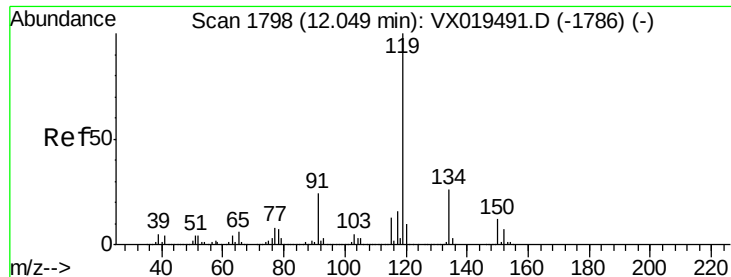
Tot Ion	Ratio	Lower	Upper
104	100		
78	52.0	39.5	59.3
103	49.5	43.6	65.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019522.D
Acq: 21 Nov 2020 03:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.3	41.8	125.4
150	157.9	0.0	348.2

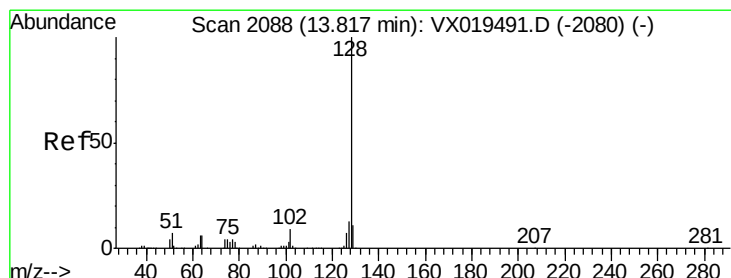
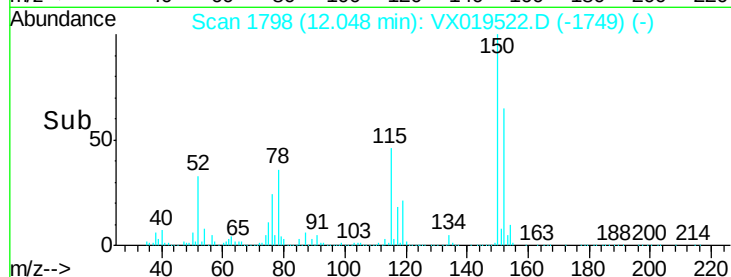
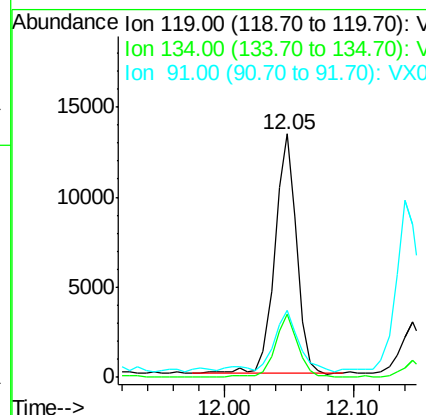
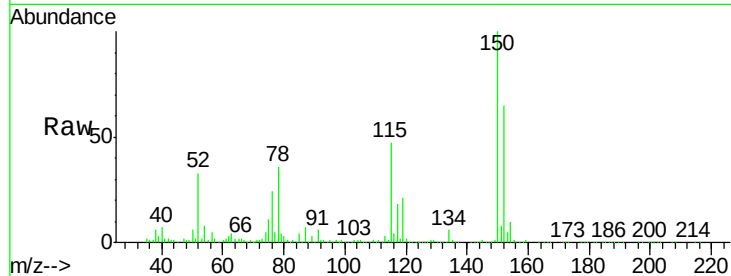




#86
p-Isopropyltoluene
Concen: 1.320 ug/l
RT: 12.05 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VX019522.D
Acq: 21 Nov 2020 03:10

Instrument :
MSVOA_X
ClientSampleId :
1623

Tot Ion:119 Resp: 15583
Ion Ratio Lower Upper
119 100
134 28.0 13.1 39.3
91 28.6 11.8 35.4



#95
Naphthalene
Concen: 2.467 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019522.D
Acq: 21 Nov 2020 03:10

Tgt Ion:128 Resp: 4340
Ion Ratio Lower Upper
128 100
127 13.5 10.3 15.5
129 31.2 8.7 13.1#

