

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112120\
 Data File : VX019526.D
 Acq On : 21 Nov 2020 04:44
 Operator : JC/MD
 Sample : L4778-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1814

Quant Time: Nov 21 07:55:18 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	331533	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	524273	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	471364	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	226526	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	190609	44.34	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	88.68%
35) Dibromofluoromethane	5.46	113	159649	48.51	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.02%
50) Toluene-d8	8.70	98	626911	49.02	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.04%
62) 4-Bromofluorobenzene	11.12	95	233715	50.80	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	101.60%

Target Compounds

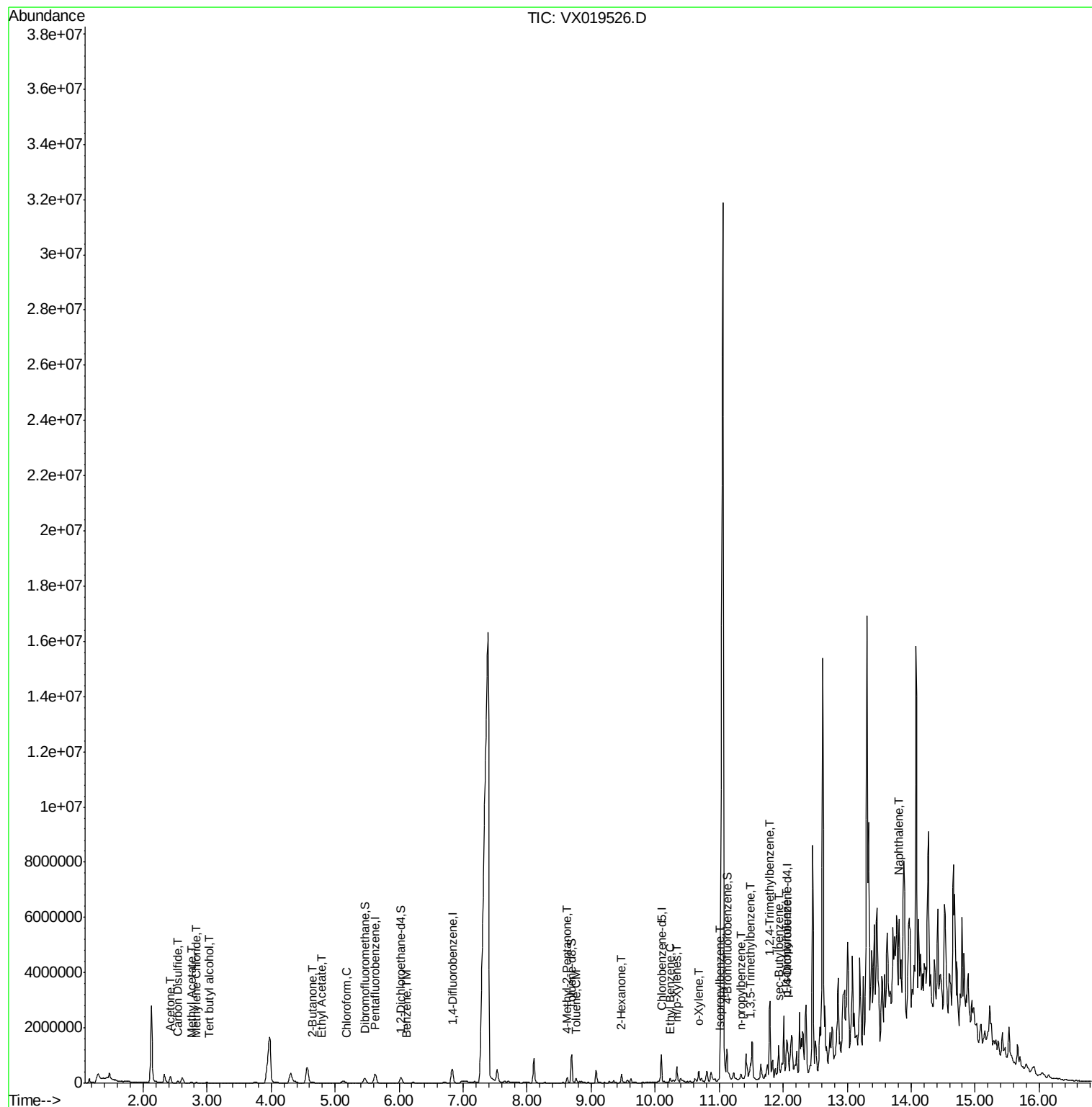
					Qvalue
11) Tert butyl alcohol	3.04	59	9015	11.082 ug/l #	91
16) Acetone	2.43	43	242584	145.929 ug/l	97
17) Carbon Disulfide	2.54	76	97952	11.077 ug/l	98
18) Methyl Acetate	2.75	43	30834	8.103 ug/l	100
20) Methylene Chloride	2.83	84	5714	1.375 ug/l	98
25) 2-Butanone	4.64	43	65690	26.306 ug/l	98
30) Chloroform	5.18	83	2398	0.351 ug/l	93
37) Ethyl Acetate	4.79	43	21161	4.586 ug/l	96
40) Benzene	6.11	78	10501	0.695 ug/l	94
51) 4-Methyl-2-Pentanone	8.62	43	103727	22.933 ug/l	99
52) Toluene	8.76	92	46676	5.052 ug/l	98
59) 2-Hexanone	9.48	43	163183	47.570 ug/l	98
67) Ethyl Benzene	10.23	91	74644	4.397 ug/l	98
68) m/p-Xylenes	10.34	106	128340	20.290 ug/l	99
69) o-Xylene	10.68	106	85442	14.131 ug/l	100
73) Isopropylbenzene	11.00	105	20253	1.292 ug/l	100
78) n-propylbenzene	11.34	91	117694	6.547 ug/l	99
80) 1,3,5-Trimethylbenzene	11.49	105	241258	18.353 ug/l	100
84) 1,2,4-Trimethylbenzene	11.79	105	1116804	83.964 ug/l	97
85) sec-Butylbenzene	11.93	105	56801	3.754 ug/l	83
86) p-Isopropyltoluene	12.05	119	365254	26.589 ug/l	99
95) Naphthalene	13.82	128	1442938	84.775 ug/l	97

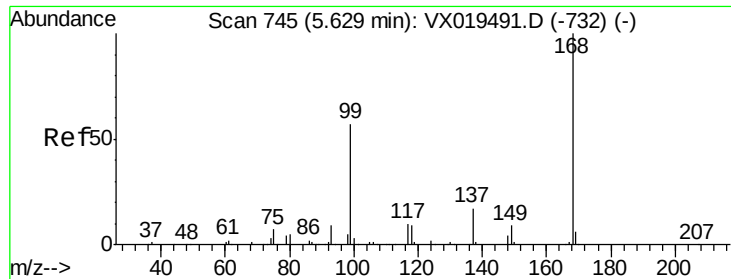
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
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: VX019526.D

Acq: 21 Nov 2020 04:44

Instrument :

MSVOA_X

ClientSampled :

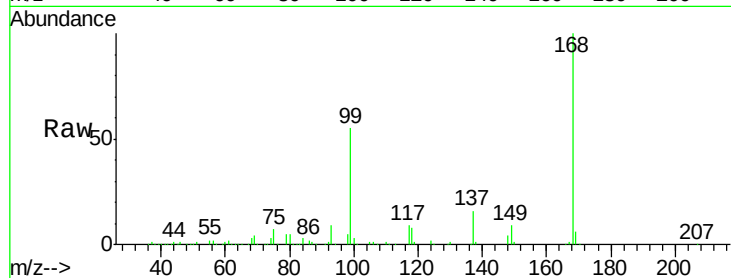
1814

Tot Ion:168 Resp: 331533

Ion Ratio Lower Upper

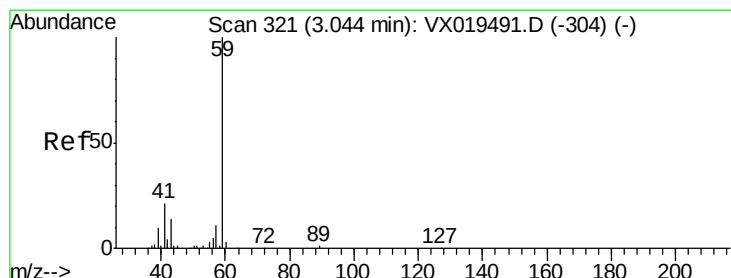
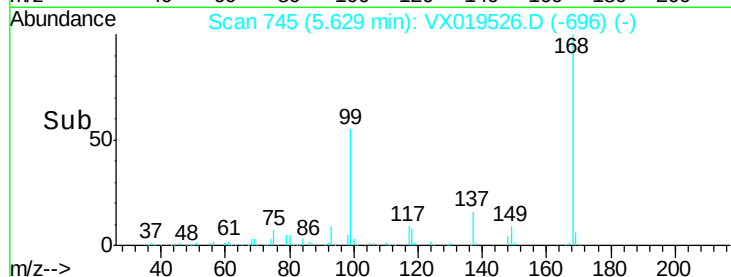
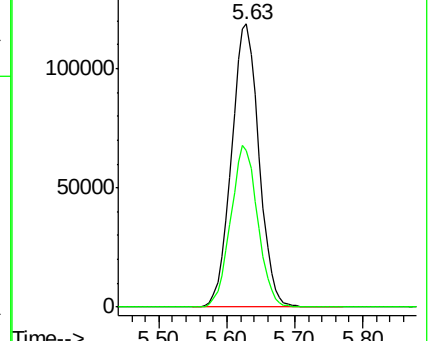
168 100

99 55.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 11.082 ug/l

RT: 3.04 min Scan# 320

Delta R.T. -0.01 min

Lab File: VX019526.D

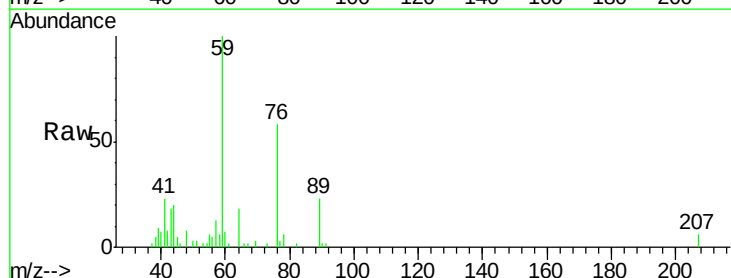
Acq: 21 Nov 2020 04:44

Tgt Ion: 59 Resp: 9015

Ion Ratio Lower Upper

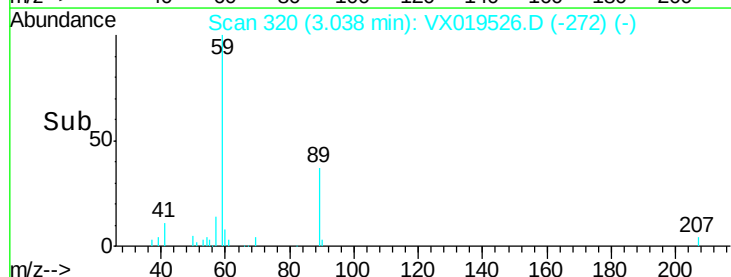
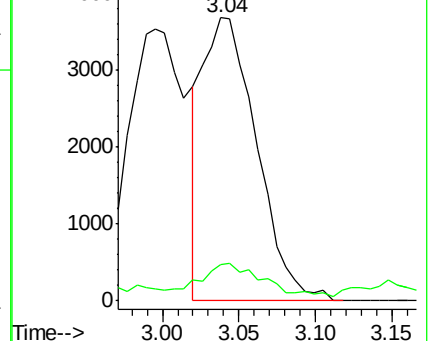
59 100

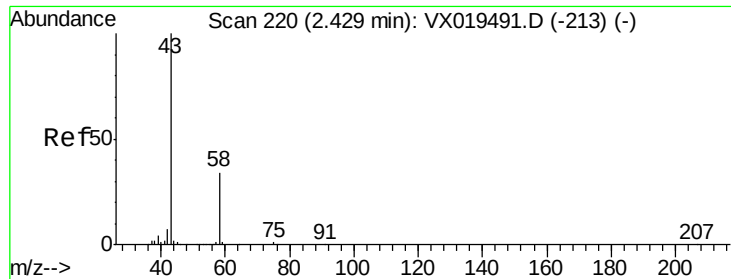
57 13.4 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 145.929 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019526.D

Acq: 21 Nov 2020 04:44

Instrument :

MSVOA_X

ClientSampled :

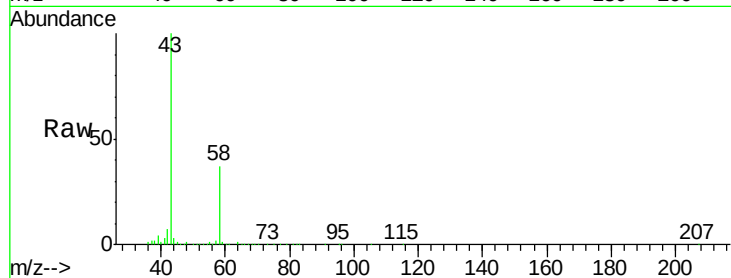
1814

Tot Ion: 43 Resp: 242584

Ion Ratio Lower Upper

43 100

58 36.1 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

200000

150000

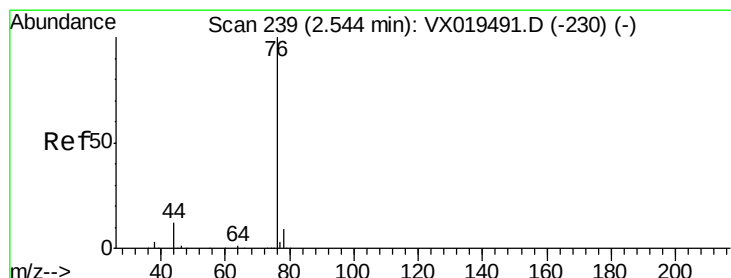
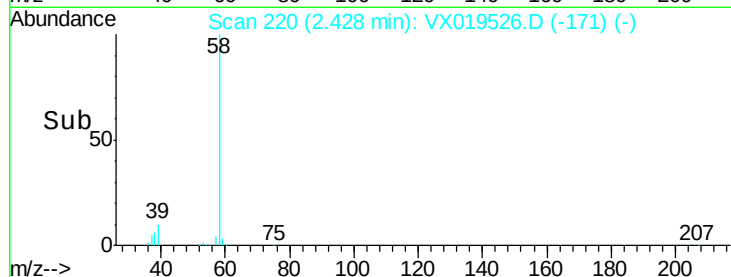
100000

50000

0

2.40 2.50

Time-->



#17

Carbon Disulfide

Concen: 11.077 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.00 min

Lab File: VX019526.D

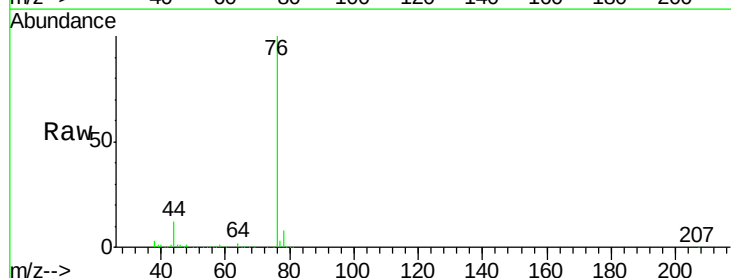
Acq: 21 Nov 2020 04:44

Tgt Ion: 76 Resp: 97952

Ion Ratio Lower Upper

76 100

78 8.2 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

60000

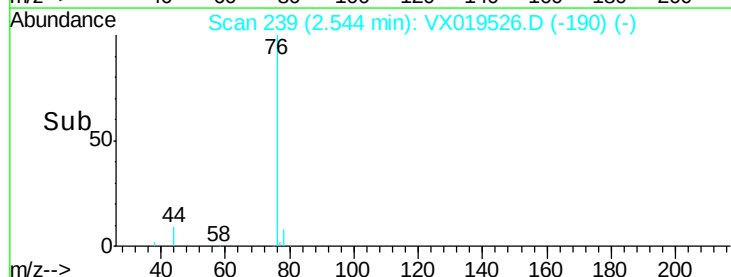
40000

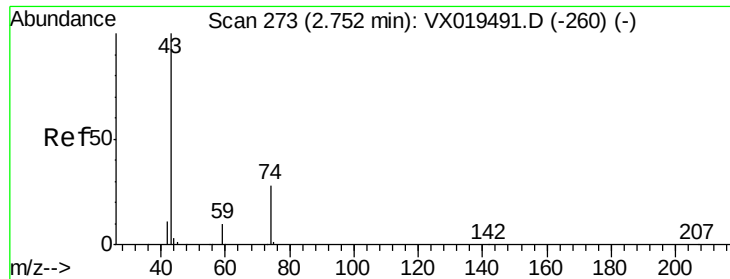
20000

0

2.45 2.50 2.55 2.60

Time-->

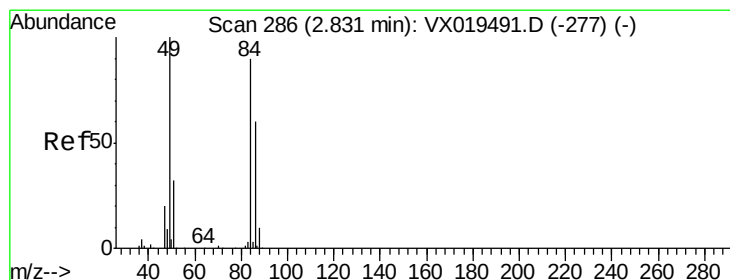
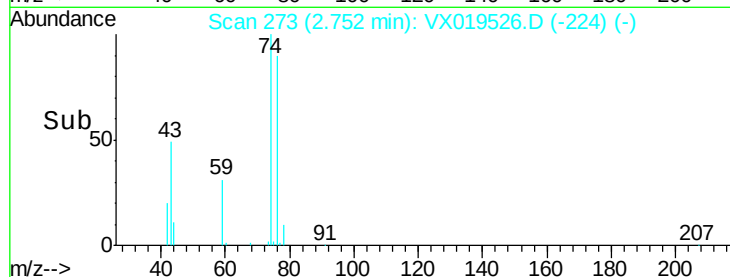
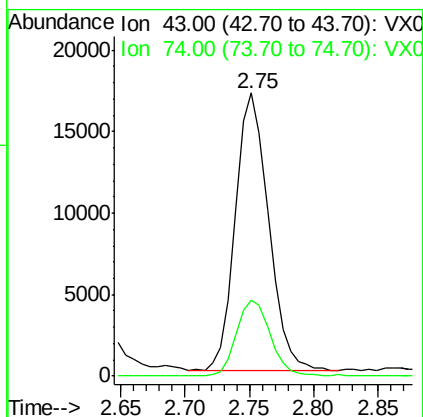
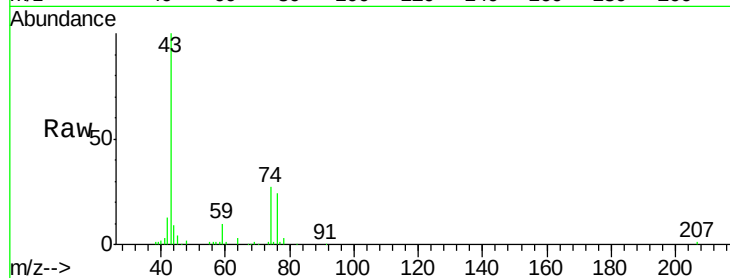




#18
Methvl Acetate
Concen: 8.103 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX019526.D
Acq: 21 Nov 2020 04:44

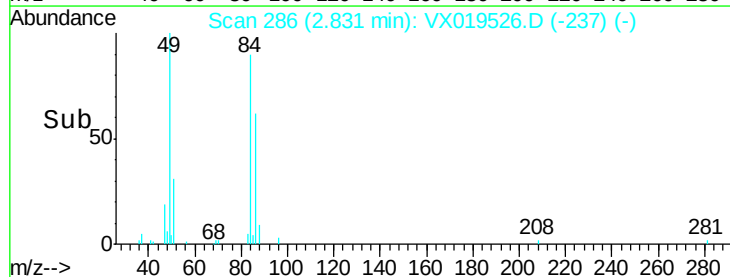
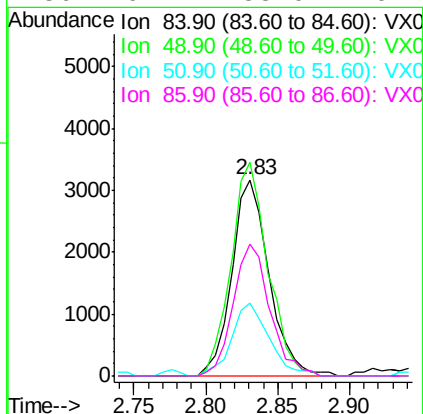
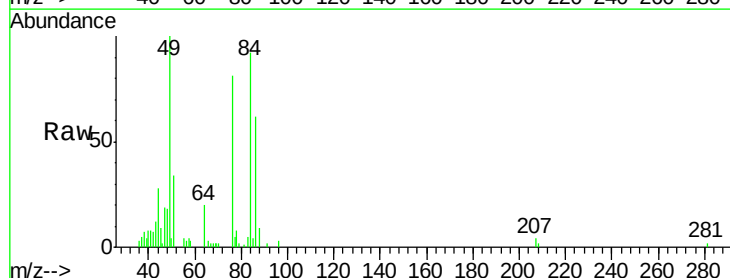
Instrument :
MSVOA_X
ClientSampleId :
1814

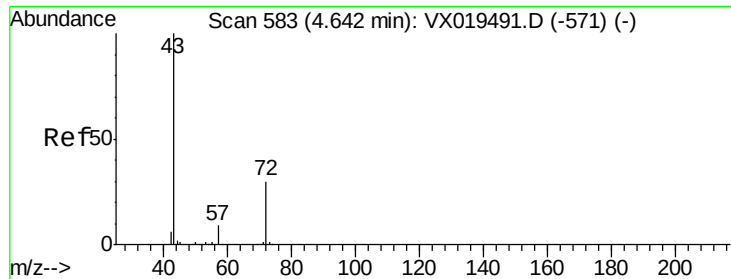
Tot Ion: 43 Resp: 30834
Ion Ratio Lower Upper
43 100
74 27.7 22.2 33.4



#20
Methylene Chloride
Concen: 1.375 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019526.D
Acq: 21 Nov 2020 04:44

Tgt Ion: 84 Resp: 5714
Ion Ratio Lower Upper
84 100
49 108.8 88.5 132.7
51 37.1 28.0 42.0
86 67.2 53.0 79.4





#25

2-Butanone

Concen: 26.306 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX019526.D

Acq: 21 Nov 2020 04:44

Instrument :

MSVOA_X

ClientSampled :

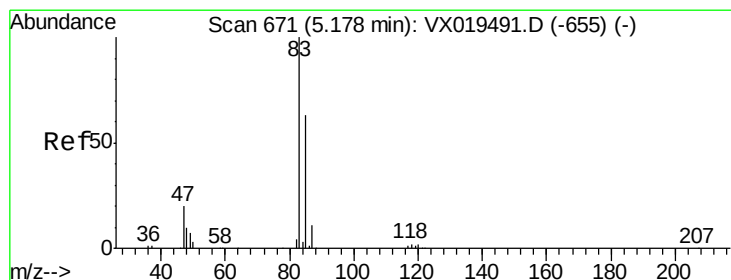
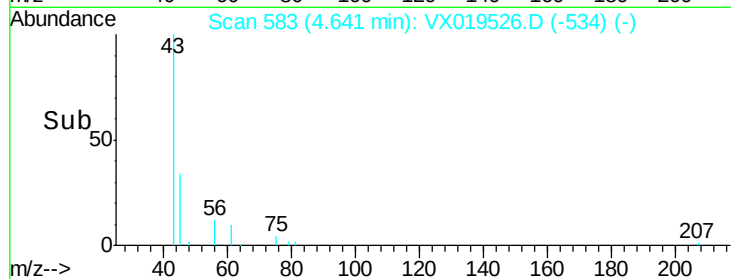
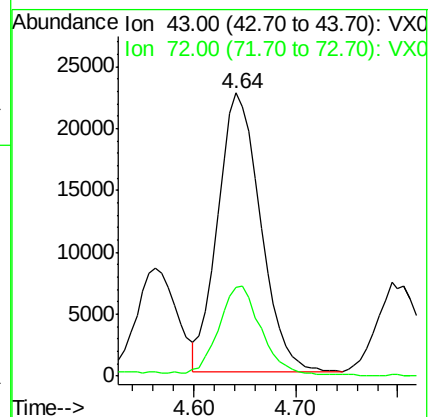
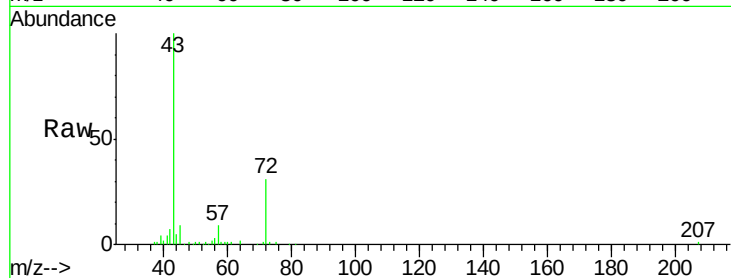
1814

Tot Ion: 43 Resp: 65690

Ion Ratio Lower Upper

43 100

72 31.3 24.0 36.0



#30

Chloroform

Concen: 0.351 ug/l

RT: 5.18 min Scan# 671

Delta R.T. -0.00 min

Lab File: VX019526.D

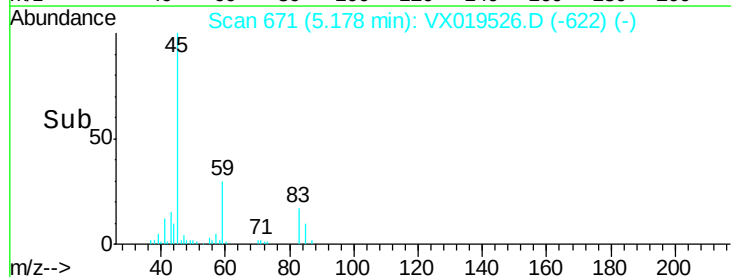
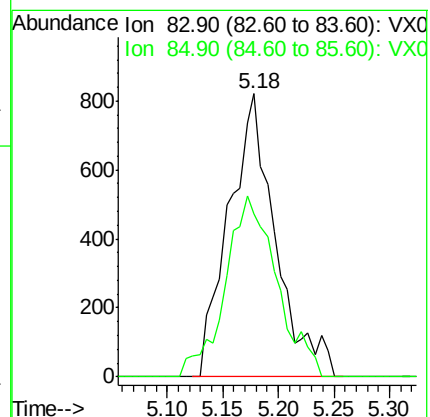
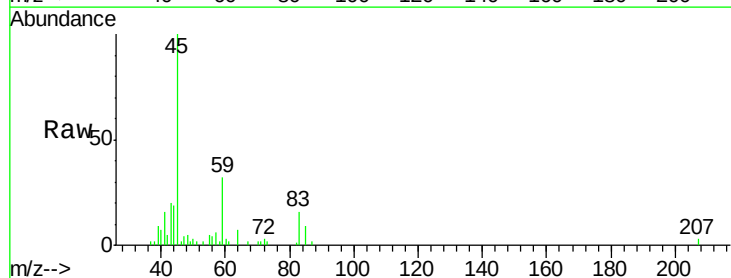
Acq: 21 Nov 2020 04:44

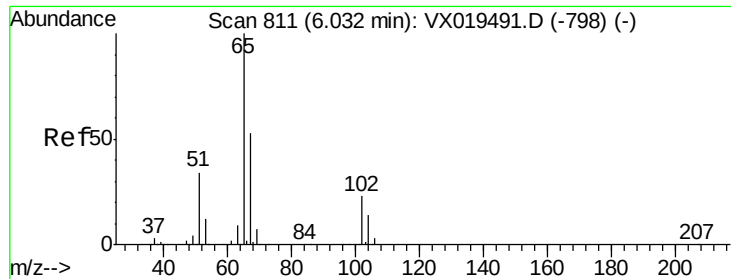
Tgt Ion: 83 Resp: 2398

Ion Ratio Lower Upper

83 100

85 57.4 50.5 75.7

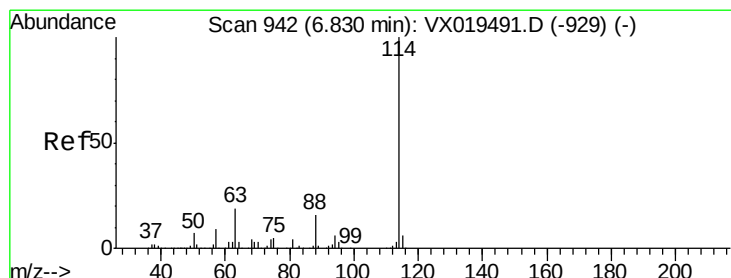
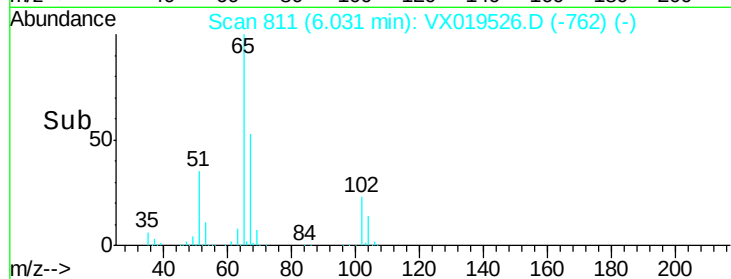
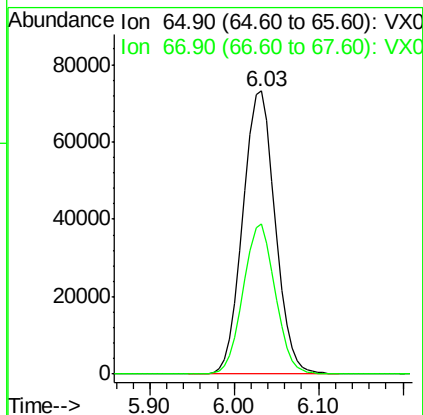
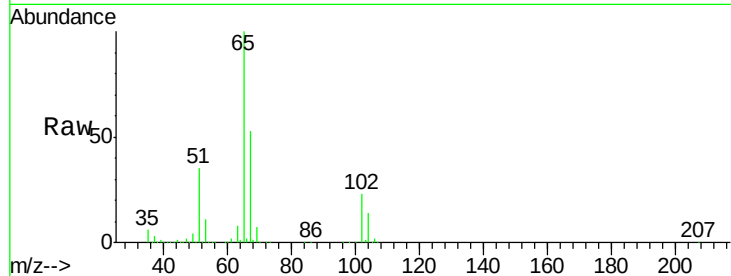




#33
 1,2-Dichloroethane-d4
 Concen: 44.342 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019526.D
 Acq: 21 Nov 2020 04:44

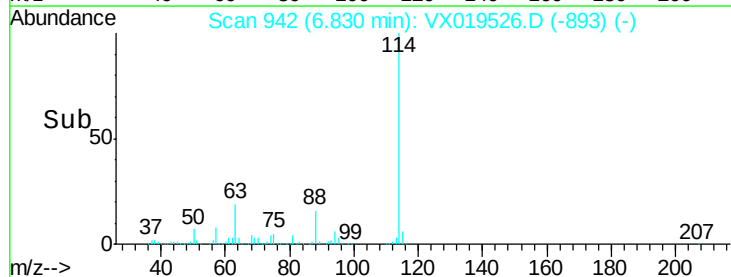
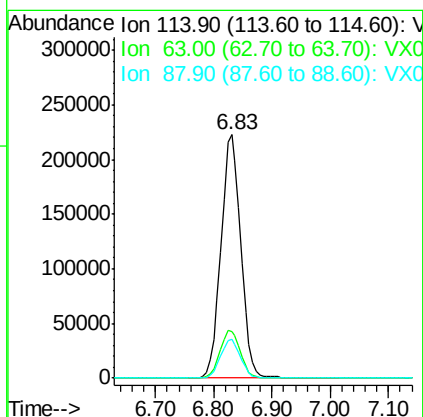
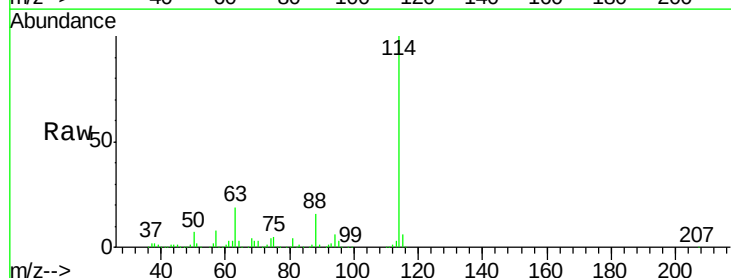
Instrument :
 MSVOA_X
 ClientSampleId :
 1814

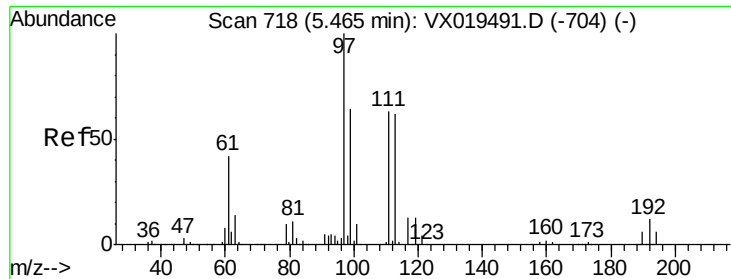
Tot Ion: 65 Resp: 190609
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019526.D
 Acq: 21 Nov 2020 04:44

Tgt Ion: 114 Resp: 524273
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 38.8
 88 16.1 0.0 31.6





#35

Dibromofluoromethane

Concen: 48.513 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019526.D

Acq: 21 Nov 2020 04:44

Instrument :

MSVOA_X

ClientSampleId :

1814

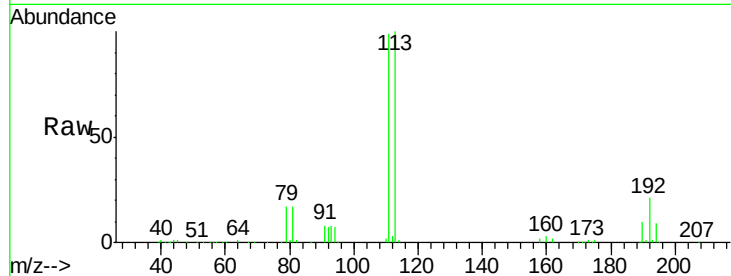
Tot Ion:113 Resp: 159649

Ion Ratio Lower Upper

113 100

111 101.8 81.5 122.3

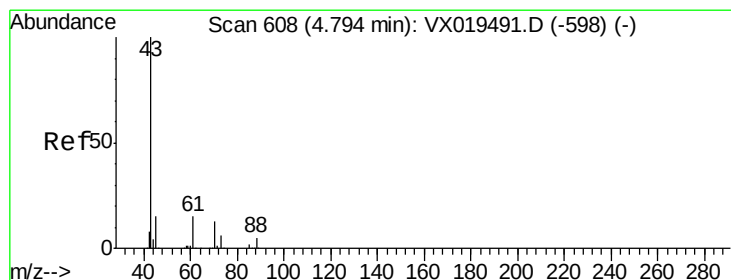
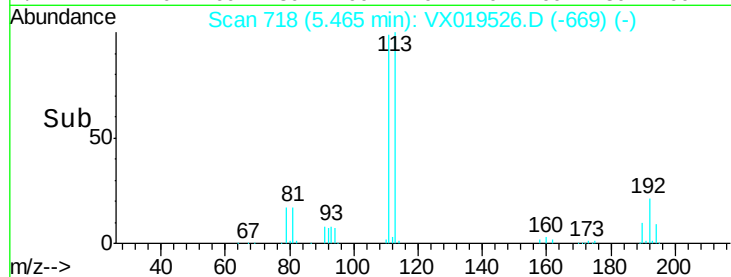
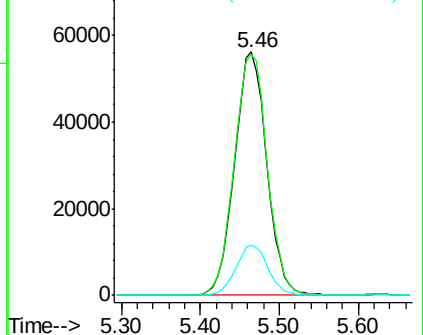
192 20.6 16.2 24.2



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



#37

Ethyl Acetate

Concen: 4.586 ug/l

RT: 4.79 min Scan# 608

Delta R.T. -0.00 min

Lab File: VX019526.D

Acq: 21 Nov 2020 04:44

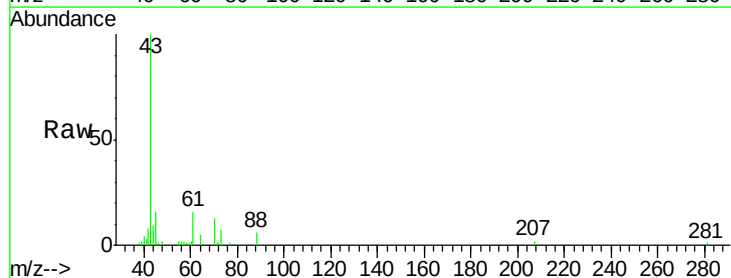
Tgt Ion: 43 Resp: 21161

Ion Ratio Lower Upper

43 100

61 17.0 12.7 19.1

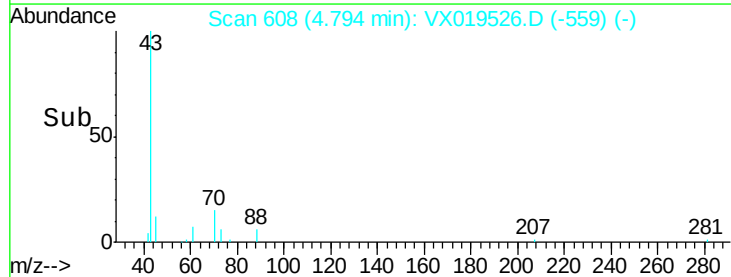
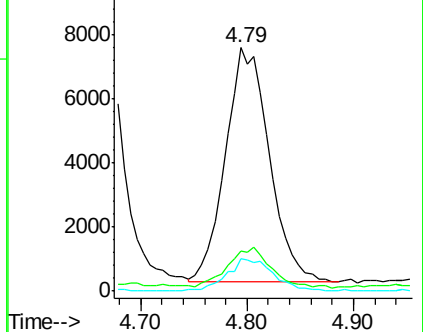
70 14.7 10.2 15.2

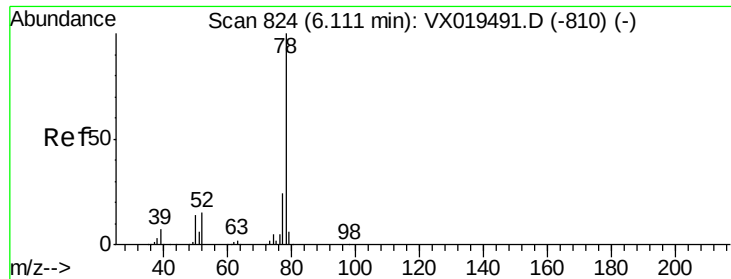


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#40

Benzene

Concen: 0.695 ug/l

RT: 6.11 min Scan# 824

Delta R.T. -0.00 min

Lab File: VX019526.D

Acq: 21 Nov 2020 04:44

Instrument :

MSVOA_X

ClientSampleId :

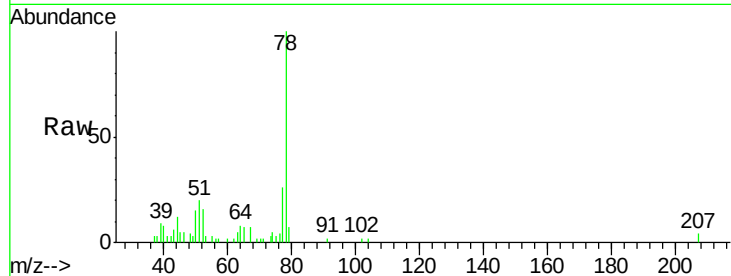
1814

Tot Ion: 78 Resp: 10501

Ion Ratio Lower Upper

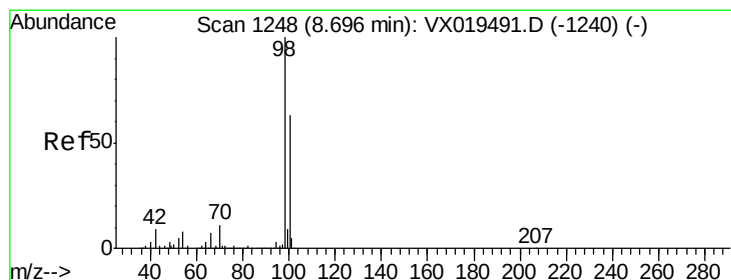
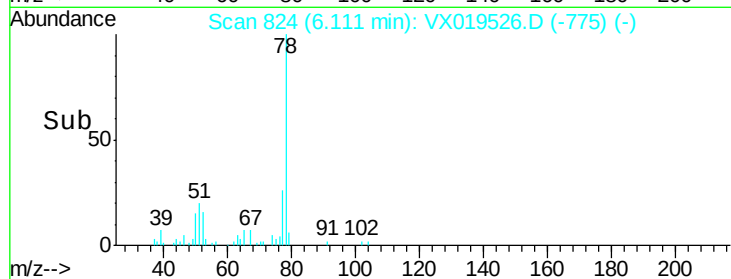
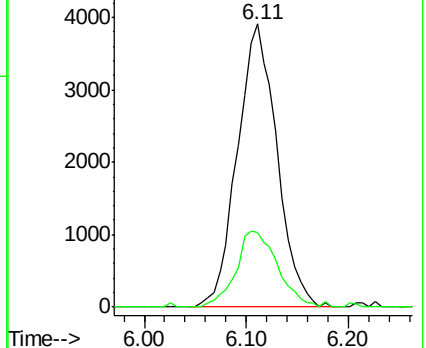
78 100

77 26.4 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 49.024 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019526.D

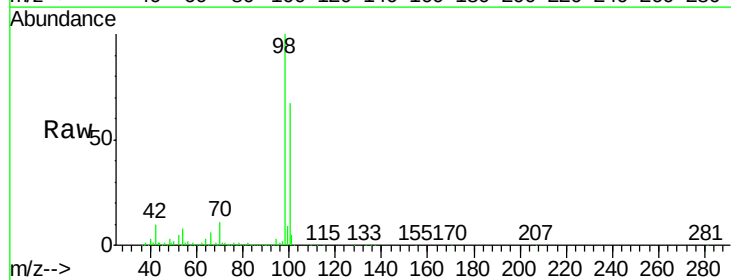
Acq: 21 Nov 2020 04:44

Tgt Ion: 98 Resp: 626911

Ion Ratio Lower Upper

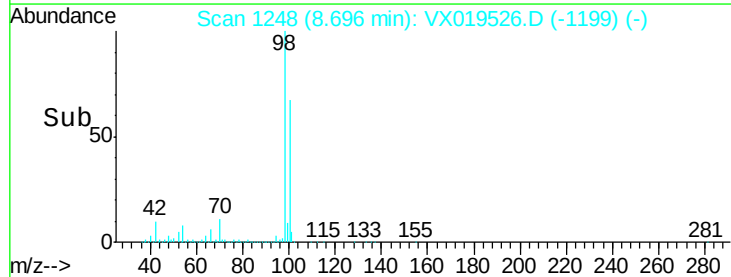
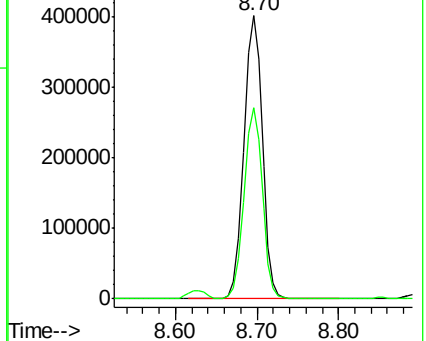
98 100

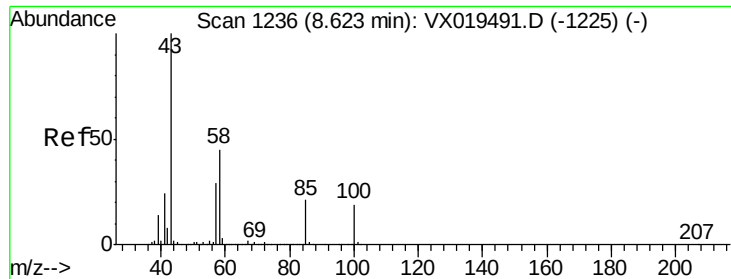
100 66.4 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

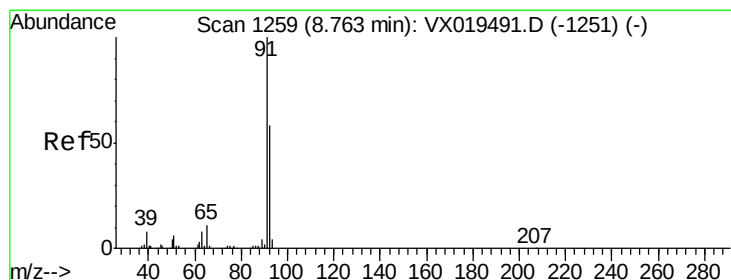
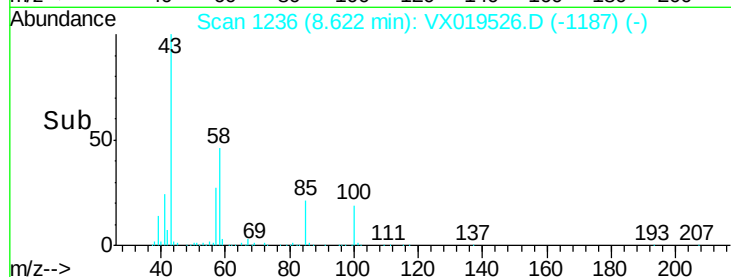
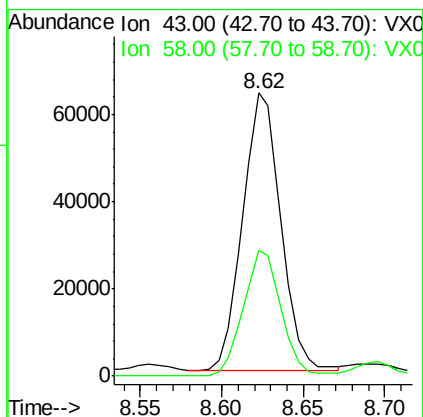
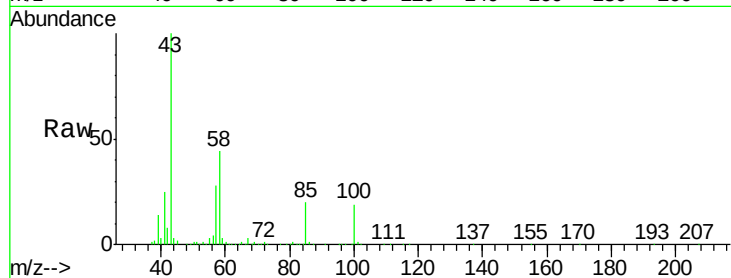




#51
4-Methyl-2-Pentanone
Concen: 22.933 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX019526.D
Acq: 21 Nov 2020 04:44

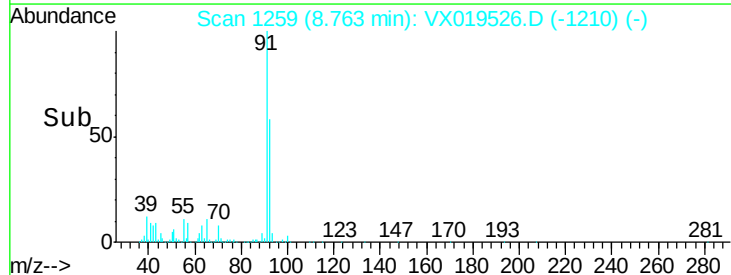
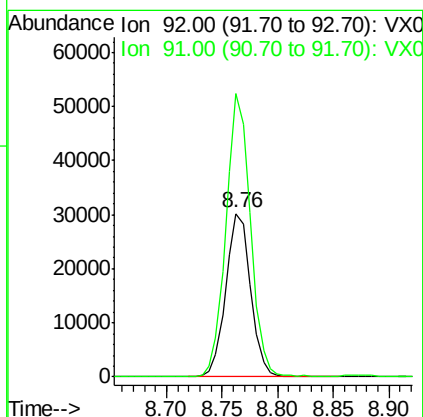
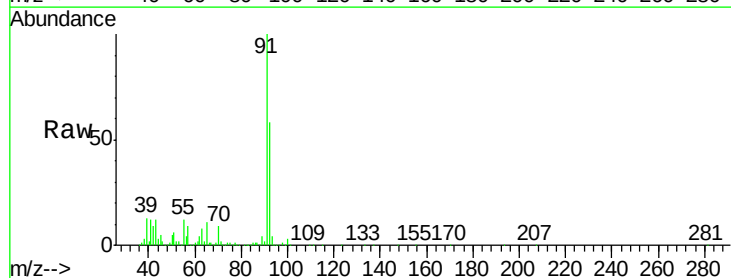
Instrument :
MSVOA_X
ClientSampleId :
1814

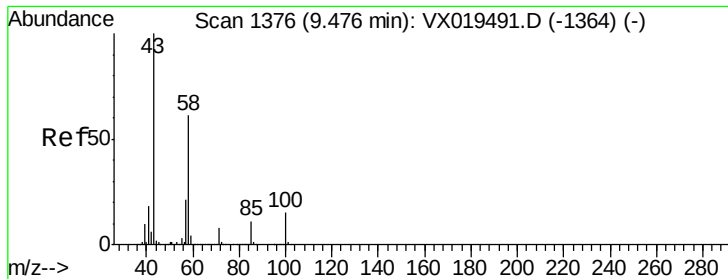
Tot Ion: 43 Resp: 103727
Ion Ratio Lower Upper
43 100
58 44.4 35.1 52.7



#52
Toluene
Concen: 5.052 ug/l
RT: 8.76 min Scan# 1259
Delta R.T. -0.00 min
Lab File: VX019526.D
Acq: 21 Nov 2020 04:44

Tgt Ion: 92 Resp: 46676
Ion Ratio Lower Upper
92 100
91 169.6 138.1 207.1

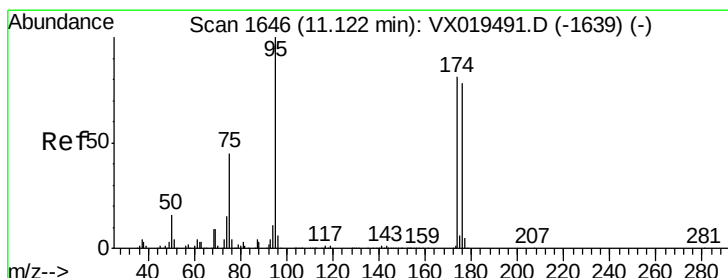
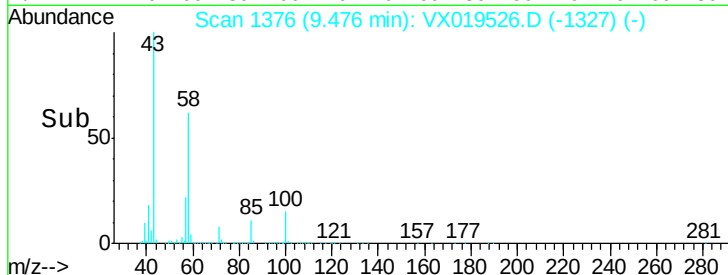
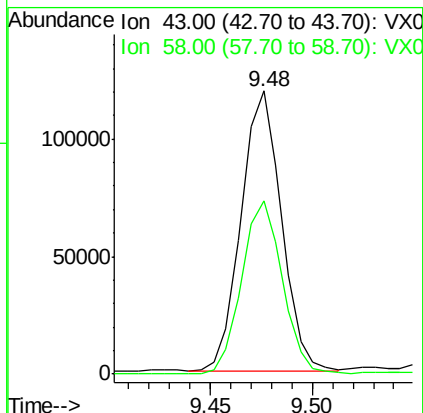
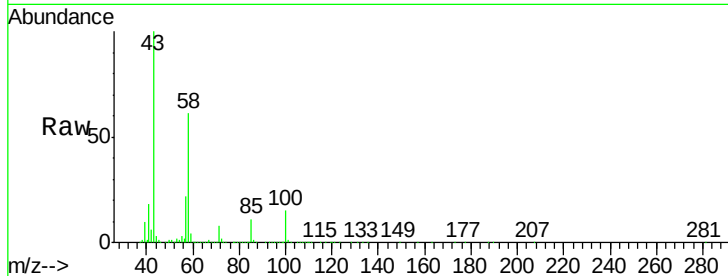




#59
2-Hexanone
Concen: 47.570 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. -0.00 min
Lab File: VX019526.D
Acq: 21 Nov 2020 04:44

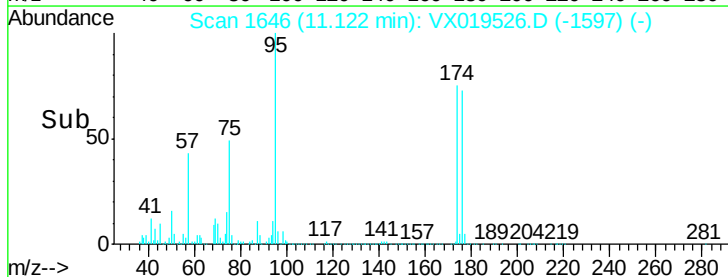
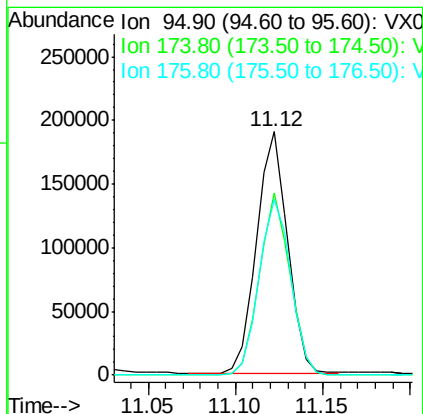
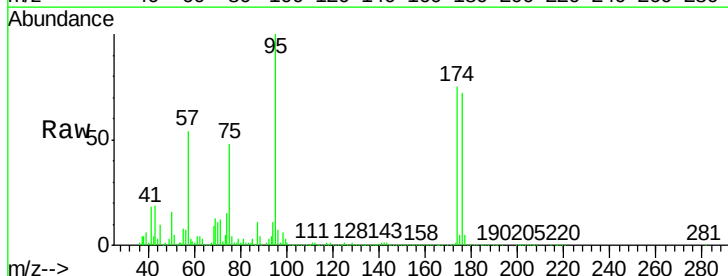
Instrument :
MSVOA_X
ClientSampled :
1814

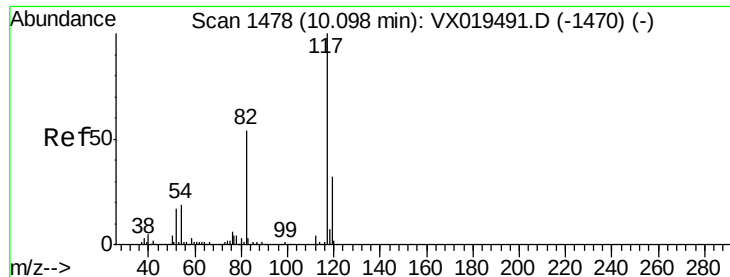
Tot Ion: 43 Resp: 163183
Ion Ratio Lower Upper
43 100
58 62.9 30.6 91.6



#62
4-Bromofluorobenzene
Concen: 50.797 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019526.D
Acq: 21 Nov 2020 04:44

Tgt Ion: 95 Resp: 233715
Ion Ratio Lower Upper
95 100
174 74.5 0.0 156.2
176 74.2 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: VX019526.D

Acq: 21 Nov 2020 04:44

Instrument :

MSVOA_X

ClientSampleId :

1814

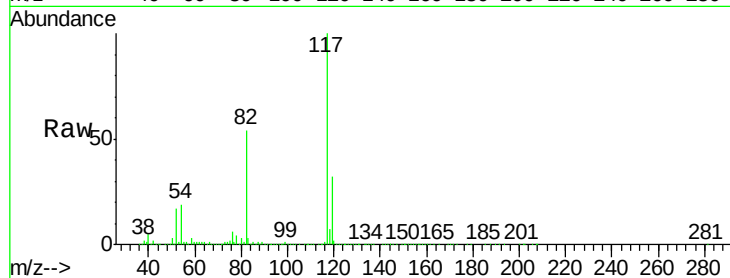
Tot Ion:117 Resp: 471364

Ion Ratio Lower Upper

117 100

82 53.5 43.0 64.4

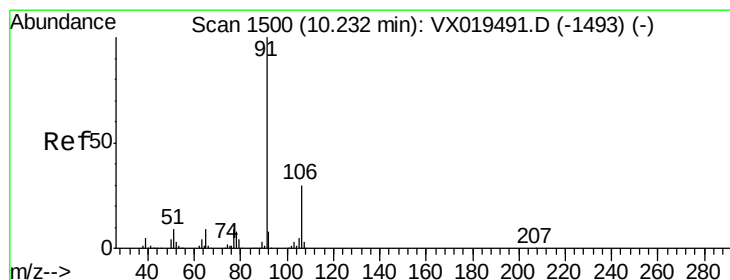
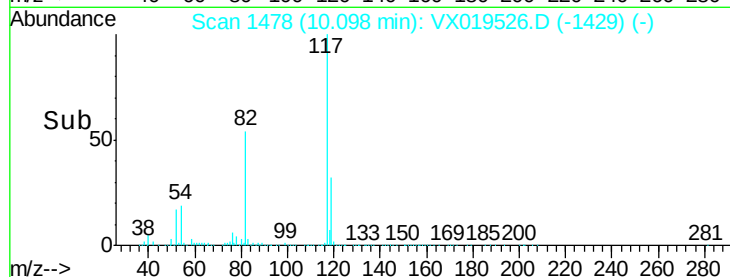
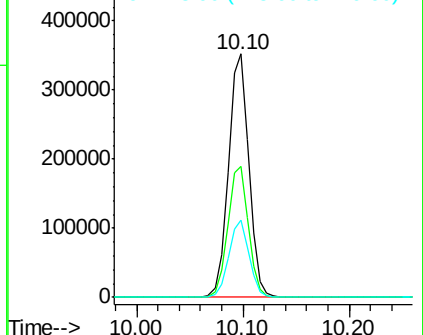
119 31.9 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 4.397 ug/l

RT: 10.23 min Scan# 1500

Delta R.T. -0.00 min

Lab File: VX019526.D

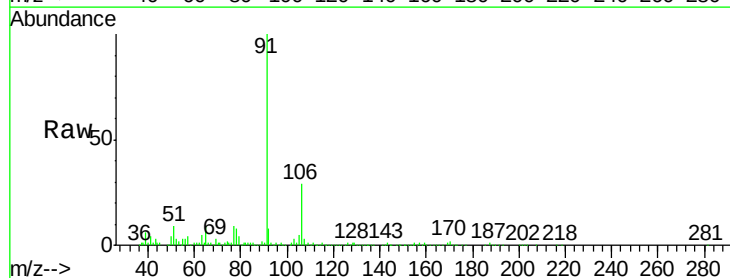
Acq: 21 Nov 2020 04:44

Tgt Ion: 91 Resp: 74644

Ion Ratio Lower Upper

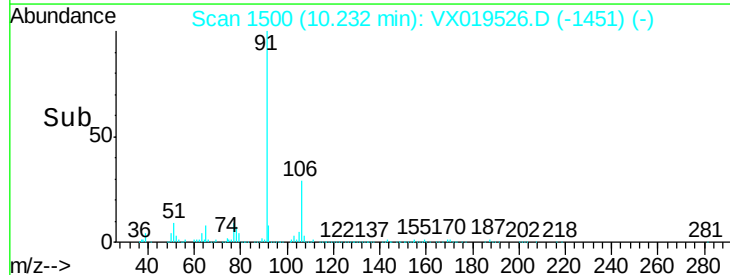
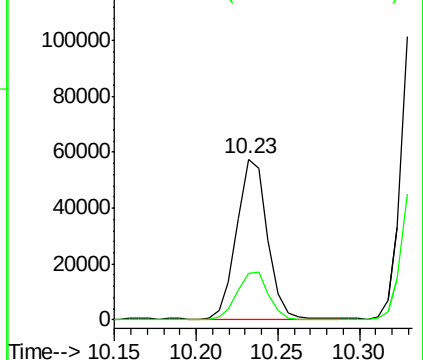
91 100

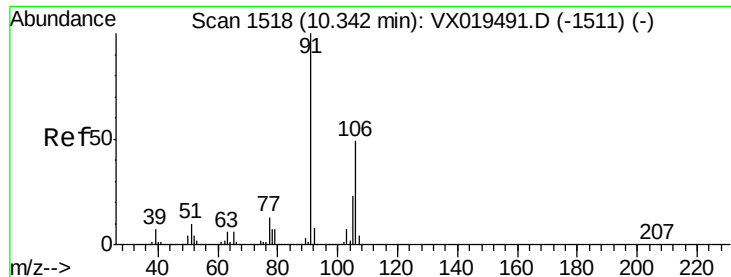
106 28.7 24.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

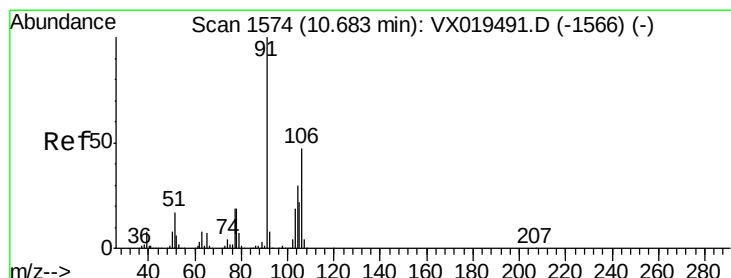
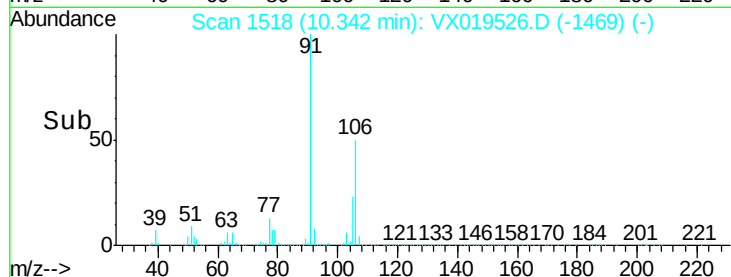
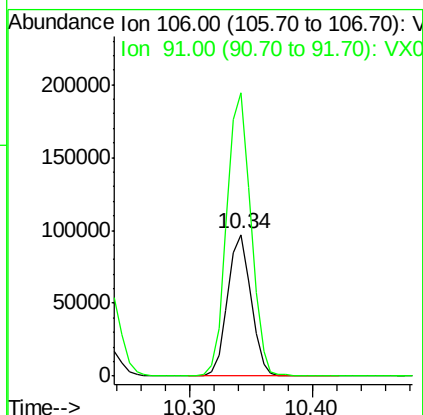
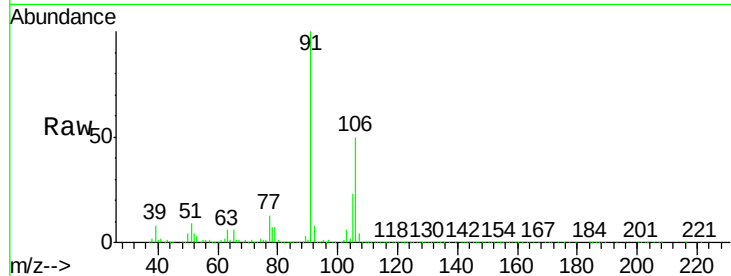




#68
m/p-Xylenes
Concen: 20.290 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX019526.D
Acq: 21 Nov 2020 04:44

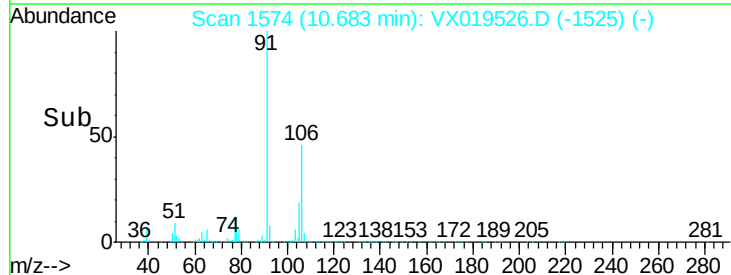
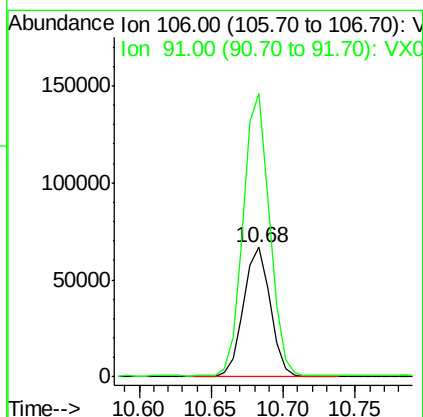
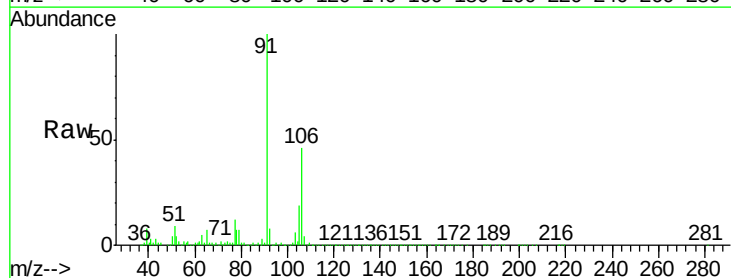
Instrument :
MSVOA_X
ClientSampled :
1814

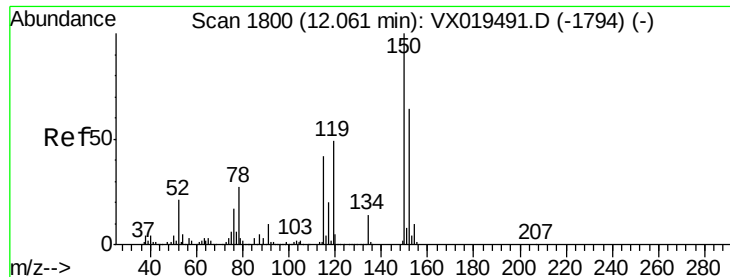
Tot Ion:106 Resp: 128340
Ion Ratio Lower Upper
106 100
91 204.9 163.3 244.9



#69
o-Xylene
Concen: 14.131 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX019526.D
Acq: 21 Nov 2020 04:44

Tgt Ion:106 Resp: 85442
Ion Ratio Lower Upper
106 100
91 216.4 108.0 324.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019526.D

Acq: 21 Nov 2020 04:44

Instrument :

MSVOA_X

ClientSampleId :

1814

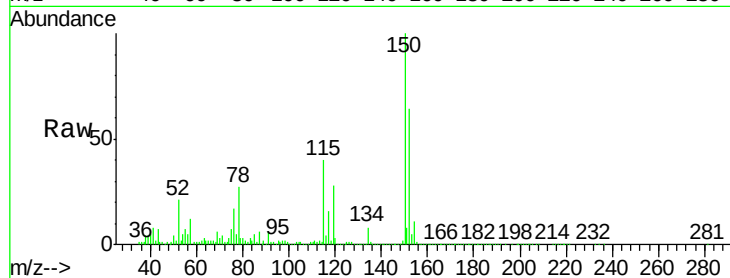
Tot Ion:152 Resp: 226526

Ion Ratio Lower Upper

152 100

115 70.8 41.8 125.4

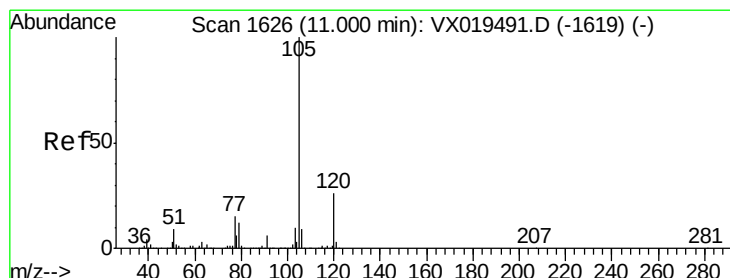
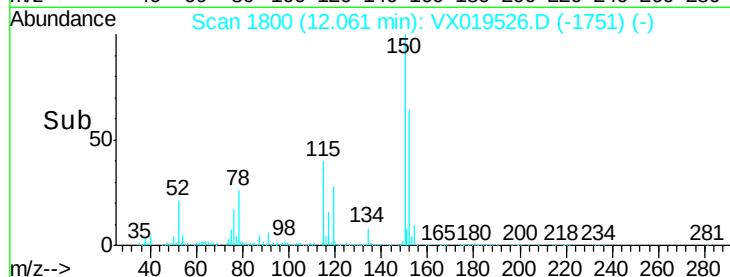
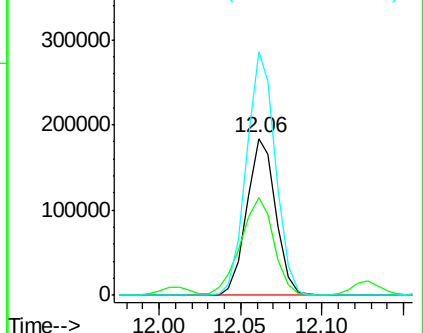
150 156.8 0.0 348.2



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



#73

Isopropylbenzene

Concen: 1.292 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX019526.D

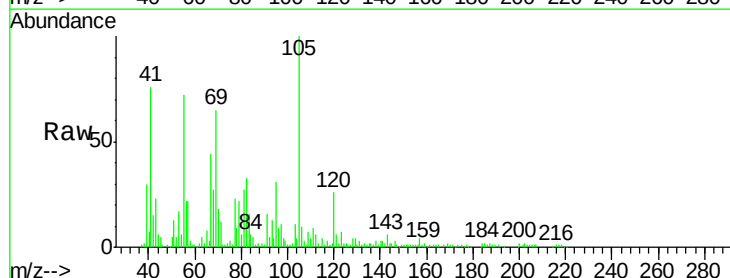
Acq: 21 Nov 2020 04:44

Tgt Ion:105 Resp: 20253

Ion Ratio Lower Upper

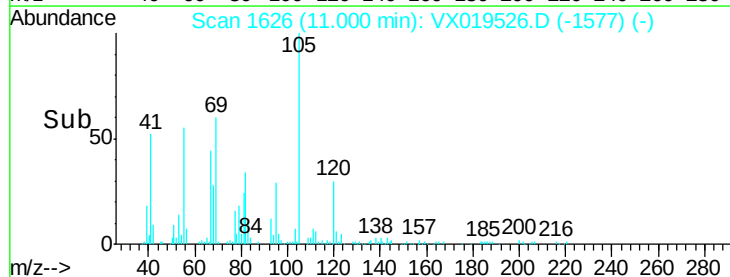
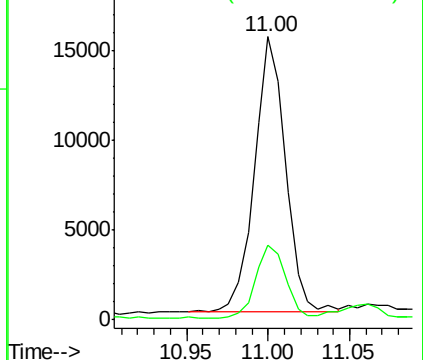
105 100

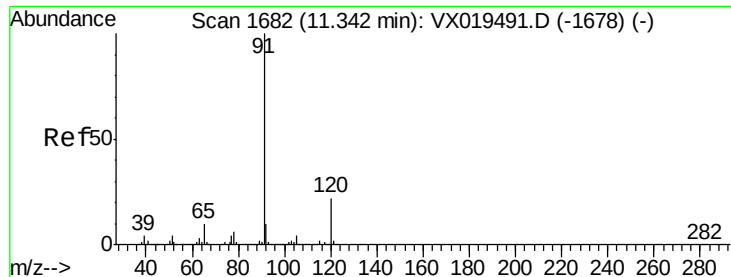
120 26.1 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 6.547 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VX019526.D

Acq: 21 Nov 2020 04:44

Instrument :

MSVOA_X

ClientSampled :

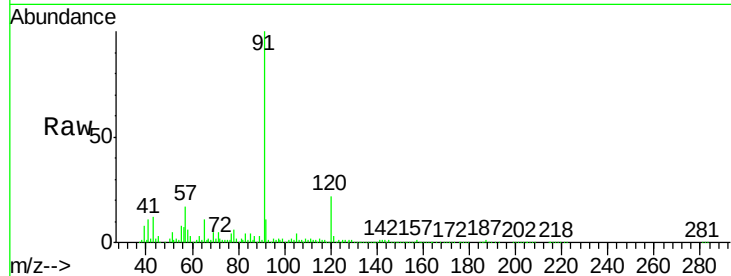
1814

Tot Ion: 91 Resp: 117694

Ion Ratio Lower Upper

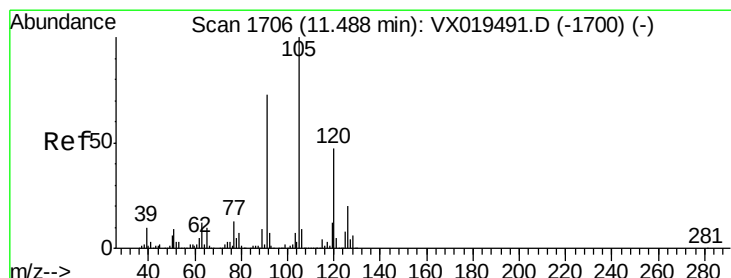
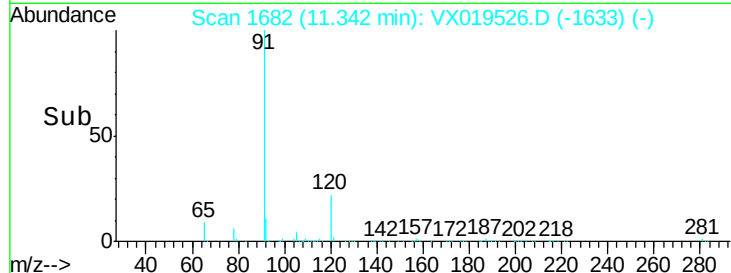
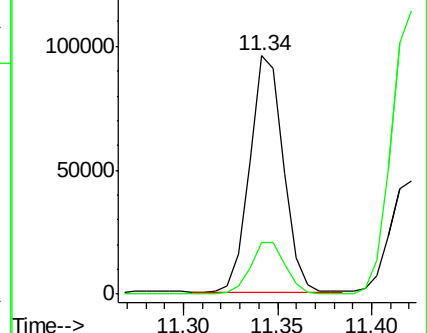
91 100

120 22.7 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VX019491.D (-1678) (-)

Ion 120.00 (119.70 to 120.70): VX019491.D (-1678) (-)



#80

1,3,5-Trimethylbenzene

Concen: 18.353 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX019526.D

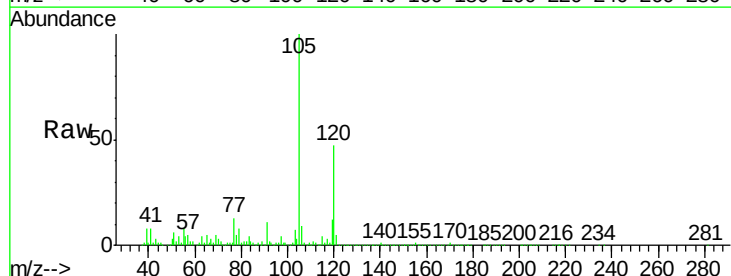
Acq: 21 Nov 2020 04:44

Tgt Ion: 105 Resp: 241258

Ion Ratio Lower Upper

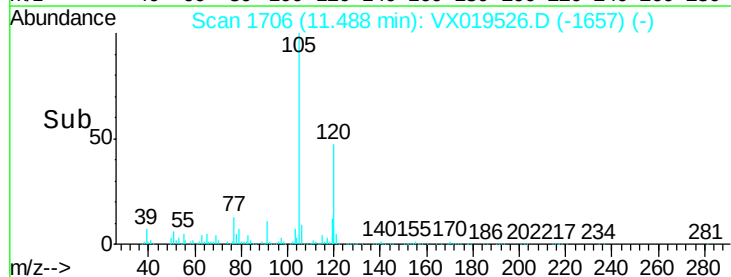
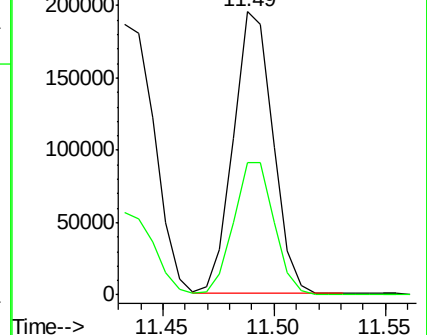
105 100

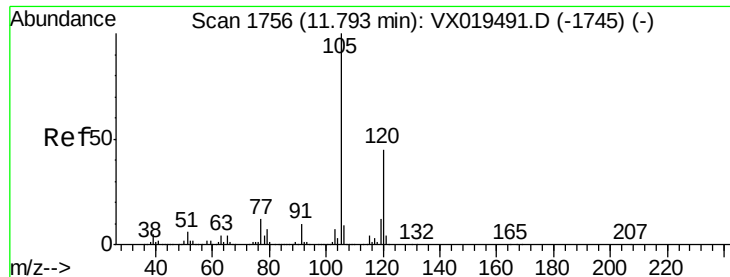
120 47.9 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): VX019491.D (-1700) (-)

Ion 120.00 (119.70 to 120.70): VX019491.D (-1700) (-)

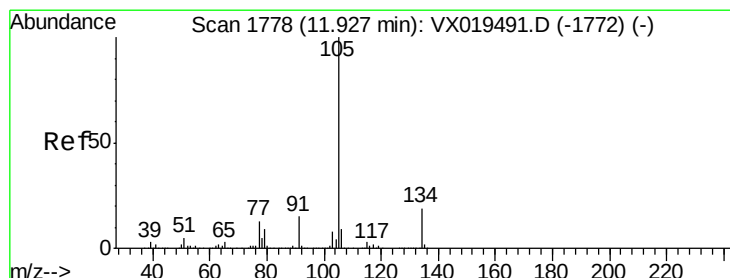
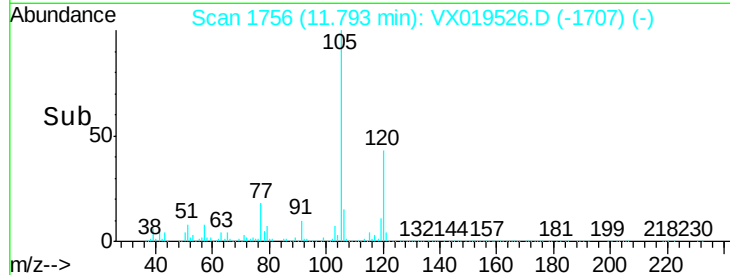
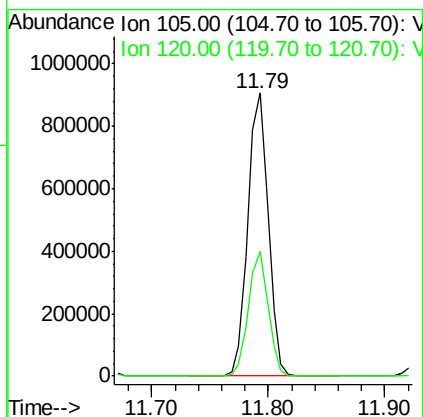
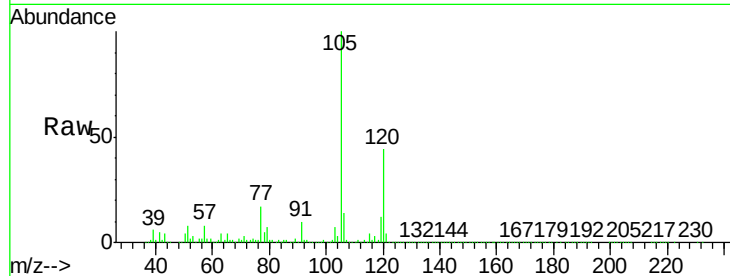




#84
 1,2,4-Trimethylbenzene
 Concen: 83.964 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VX019526.D
 Acq: 21 Nov 2020 04:44

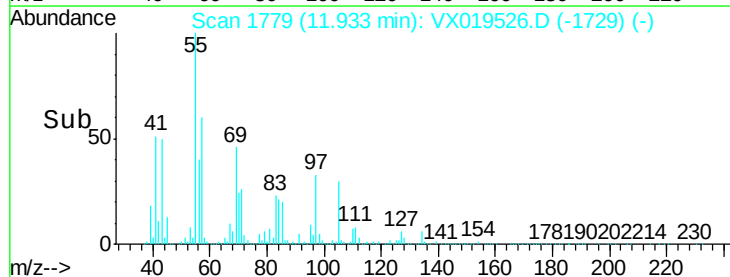
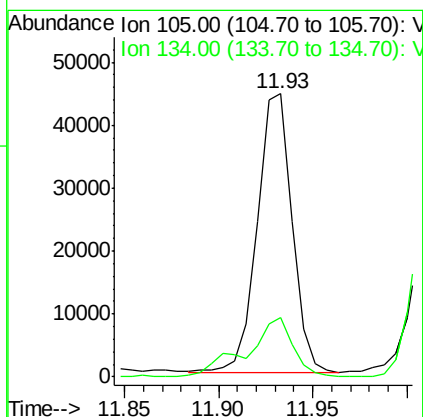
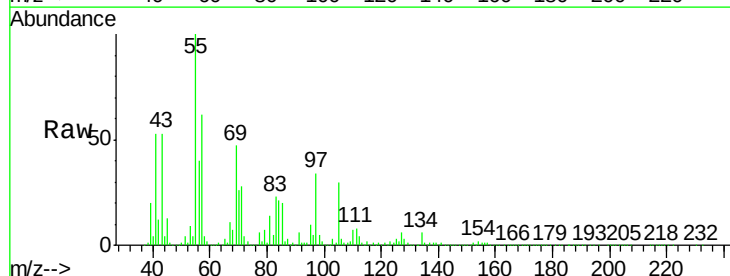
Instrument :
 MSVOA_X
 ClientSampled :
 1814

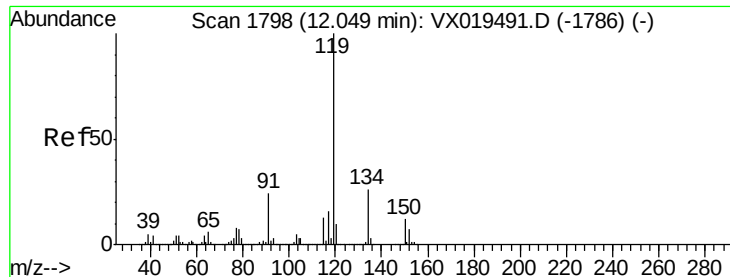
Tot Ion:105 Resp: 1116804
 Ion Ratio Lower Upper
 105 100
 120 42.7 22.2 66.6



#85
 sec-Butylbenzene
 Concen: 3.754 ug/l
 RT: 11.93 min Scan# 1779
 Delta R.T. 0.01 min
 Lab File: VX019526.D
 Acq: 21 Nov 2020 04:44

Tgt Ion:105 Resp: 56801
 Ion Ratio Lower Upper
 105 100
 134 27.9 10.1 30.3

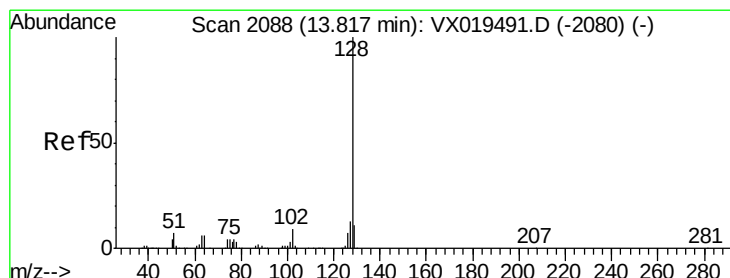
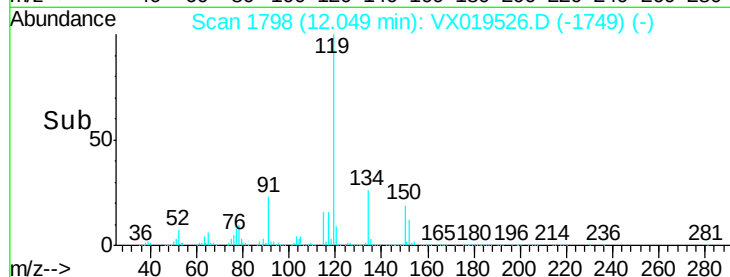
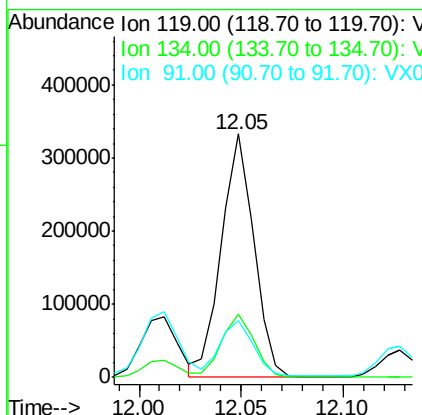
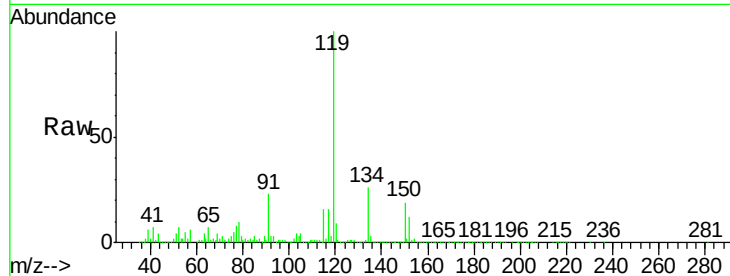




#86
p-Isopropyltoluene
Concen: 26.589 ug/l
RT: 12.05 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VX019526.D
Acq: 21 Nov 2020 04:44

Instrument :
MSVOA_X
ClientSampleId :
1814

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.1	39.3
91	23.1	11.8	35.4



#95
Naphthalene
Concen: 84.775 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019526.D
Acq: 21 Nov 2020 04:44

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.3	15.5
129	12.7	8.7	13.1

