

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102220\
 Data File : VX019065.D
 Acq On : 23 Oct 2020 06:33
 Operator : JC/SP
 Sample : L4490-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 201021073-02-VOA

Quant Time: Oct 23 09:53:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102120W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 22 17:51:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	282006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	485687	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	464256	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	247526	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	170046	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
35) Dibromofluoromethane	5.46	113	151635	49.31	ug/l	-0.01
Spiked Amount			Recovery	=	98.62%	
50) Toluene-d8	8.70	98	591771	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
62) 4-Bromofluorobenzene	11.12	95	218238	52.29	ug/l	0.00
Spiked Amount			Recovery	=	104.58%	

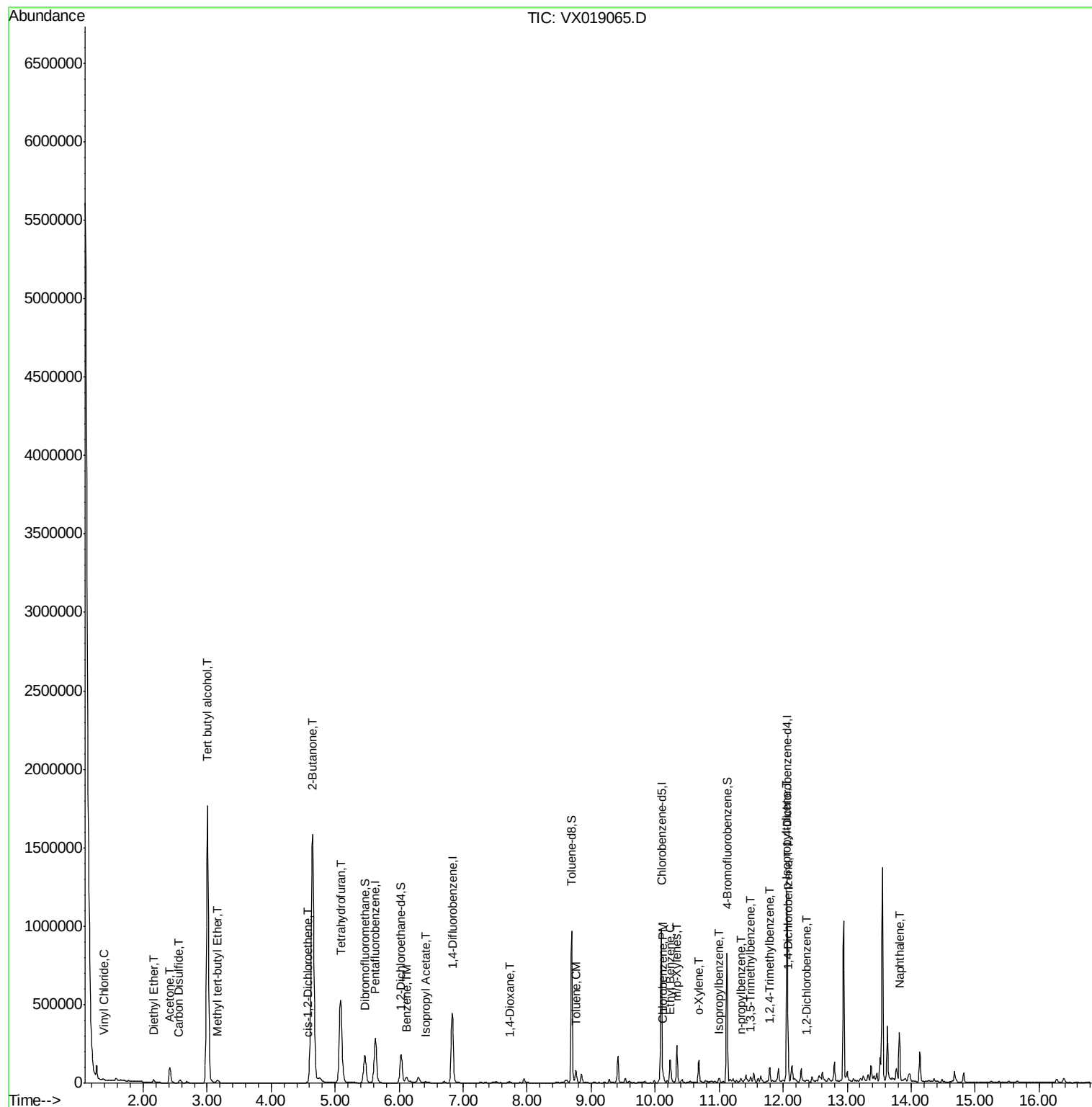
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	1351	0.410	ug/l	96
8) Diethyl Ether	2.17	74	5888	2.700	ug/l	95
11) Tert butyl alcohol	3.01	59	2356032	3443.734	ug/l	100
16) Acetone	2.42	43	87257	75.837	ug/l	100
17) Carbon Disulfide	2.55	76	3707	0.468	ug/l #	90
19) Methyl tert-butyl Ether	3.16	73	18677	2.148	ug/l	98
25) 2-Butanone	4.64	43	146454	80.557	ug/l #	83
27) cis-1,2-Dichloroethene	4.57	96	1770	0.487	ug/l #	26
29) Tetrahydrofuran	5.09	42	439863	404.799	ug/l	99
40) Benzene	6.11	78	43424	3.383	ug/l	99
43) Isopropyl Acetate	6.41	43	2124	0.337	ug/l #	76
49) 1,4-Dioxane	7.72	88	5771	82.286	ug/l	94
52) Toluene	8.76	92	24953	2.943	ug/l	100
65) Chlorobenzene	10.12	112	8966	0.921	ug/l #	82
67) Ethyl Benzene	10.23	91	86749	5.168	ug/l	100
68) m/p-Xylenes	10.34	106	56301	8.756	ug/l	98
69) o-Xylene	10.68	106	32669	5.308	ug/l	98
73) Isopropylbenzene	11.00	105	11548	0.649	ug/l	98
78) n-propylbenzene	11.34	91	5527	0.274	ug/l	94
80) 1,3,5-Trimethylbenzene	11.49	105	10999	0.748	ug/l	100
84) 1,2,4-Trimethylbenzene	11.79	105	40001	2.717	ug/l	96
86) p-Isopropyltoluene	12.05	119	25870	1.615	ug/l	96
88) 1,4-Dichlorobenzene	12.08	146	28672	3.387	ug/l	92
91) 1,2-Dichlorobenzene	12.37	146	2287	0.297	ug/l	90
95) Naphthalene	13.82	128	187922	10.614	ug/l	100

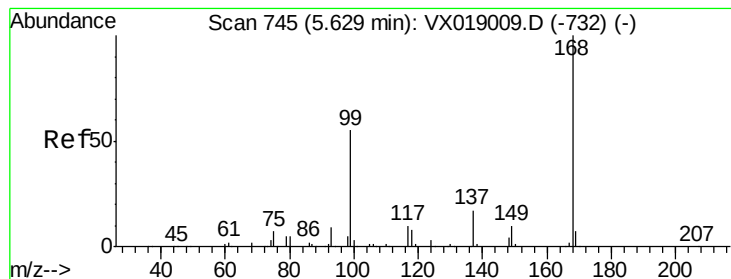
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 23 09:53:10 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102120W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 22 17:51:42 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: VX019065.D

Acq: 23 Oct 2020 06:33

Instrument :

MSVOA_X

ClientSampleId :

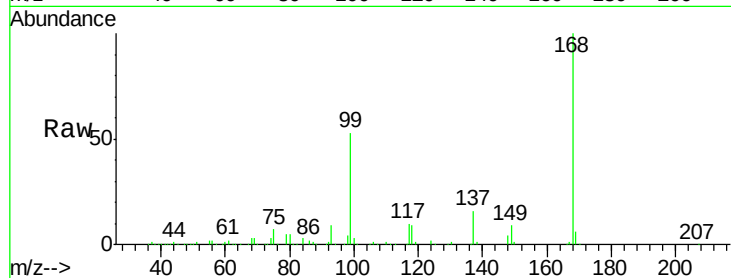
201021073-02-VOA

Tot Ion:168 Resp: 282006

Ion Ratio Lower Upper

168 100

99 53.1 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

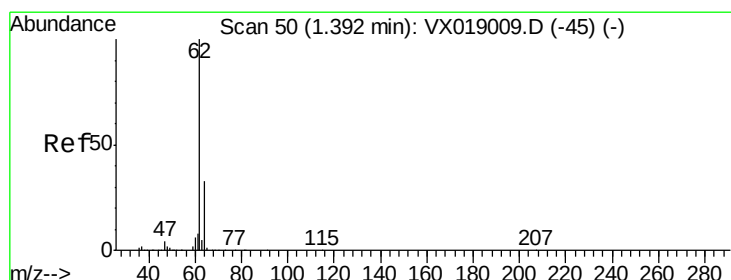
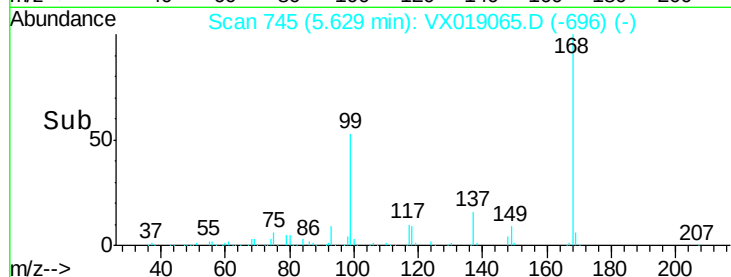
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 0.410 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX019065.D

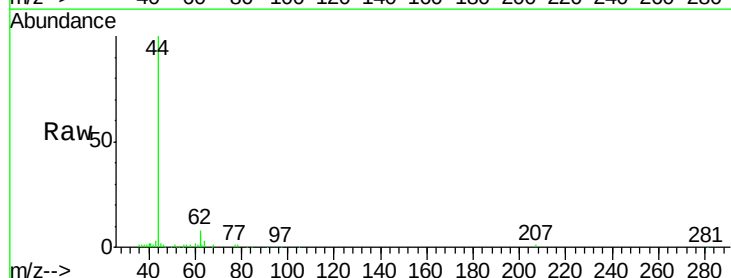
Acq: 23 Oct 2020 06:33

Tgt Ion: 62 Resp: 1351

Ion Ratio Lower Upper

62 100

64 31.1 26.5 39.7



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

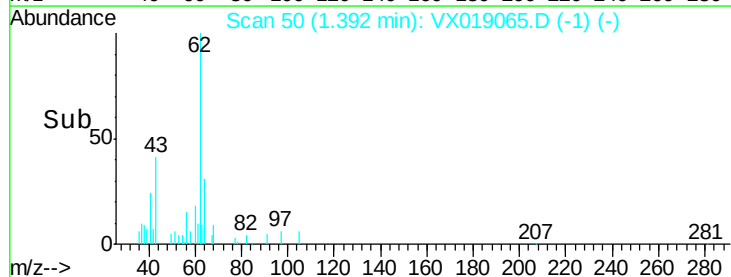
1500

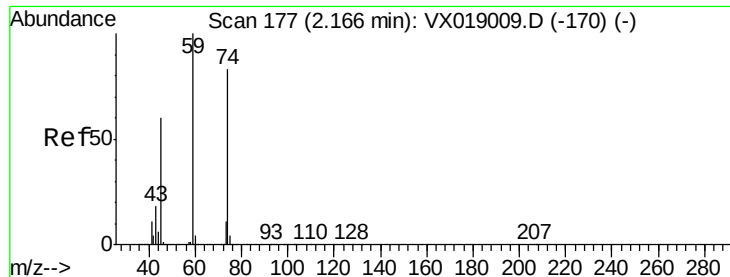
1000

500

0

Time-->





#8

Diethyl Ether

Concen: 2.700 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.00 min

Lab File: VX019065.D

Acq: 23 Oct 2020 06:33

Instrument :

MSVOA_X

ClientSampleId :

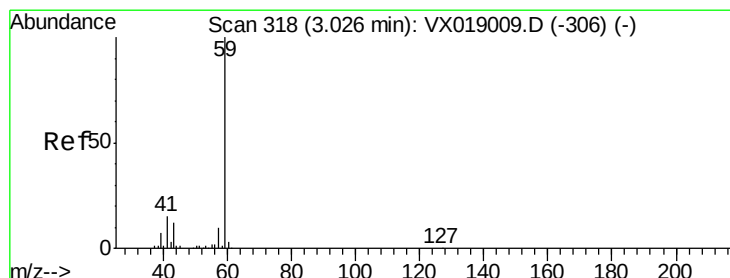
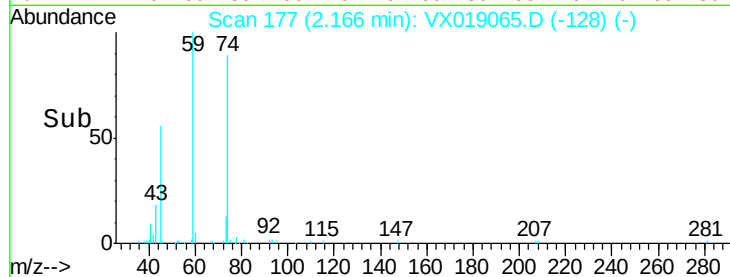
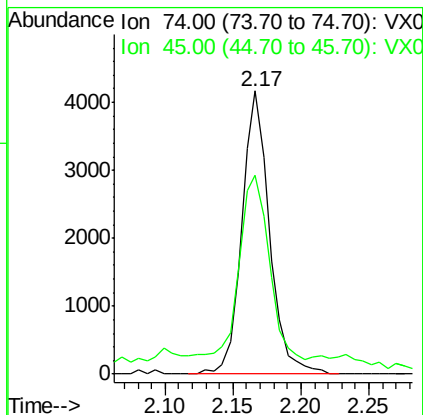
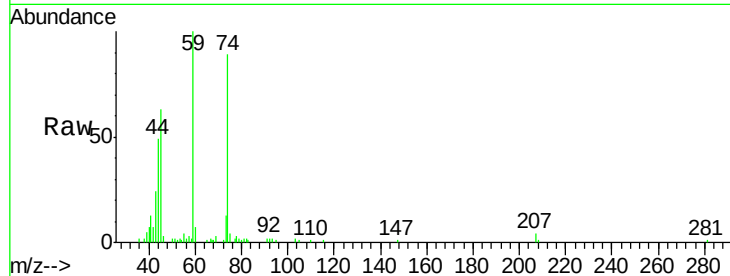
201021073-02-VOA

Tot Ion: 74 Resp: 5888

Ion Ratio Lower Upper

74 100

45 69.5 36.8 110.4



#11

Tert butyl alcohol

Concen: 3443.734 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.02 min

Lab File: VX019065.D

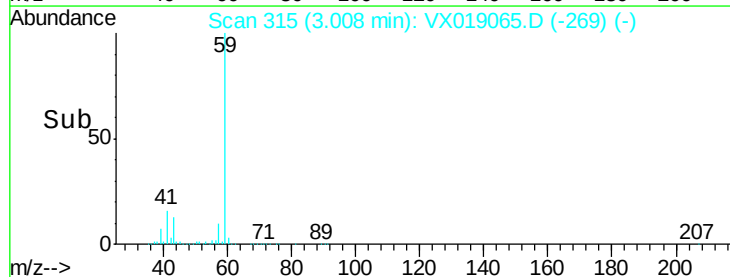
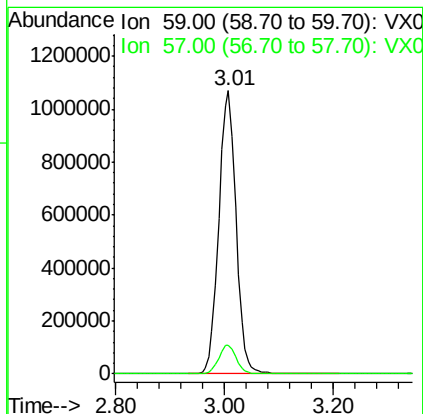
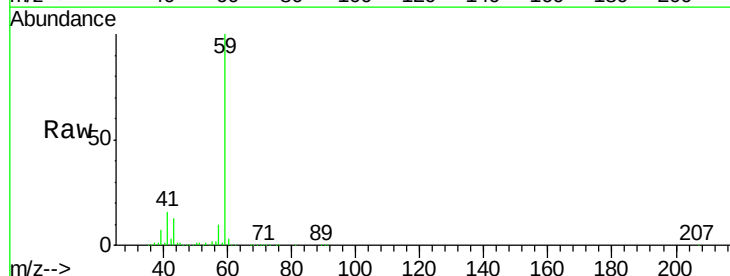
Acq: 23 Oct 2020 06:33

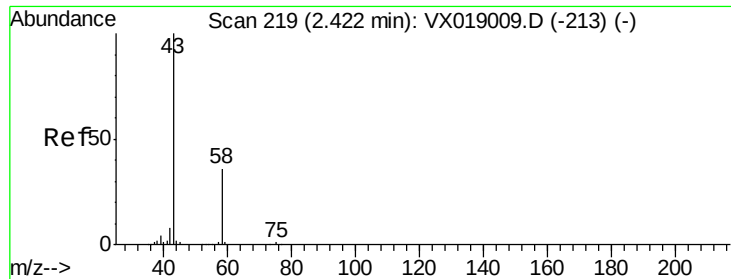
Tgt Ion: 59 Resp: 2356032

Ion Ratio Lower Upper

59 100

57 10.3 8.2 12.2

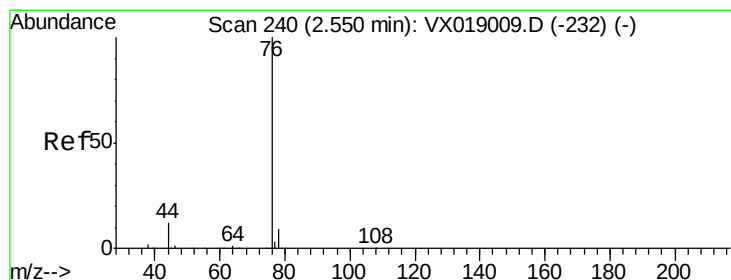
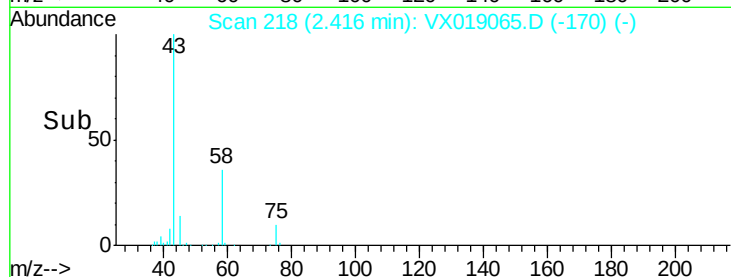
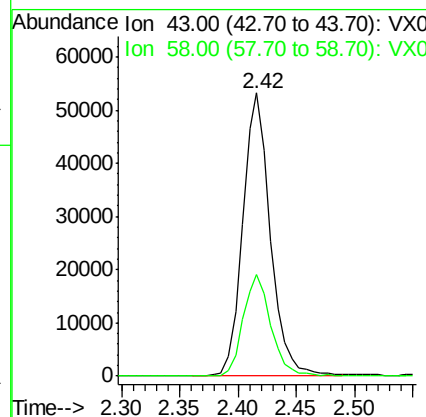
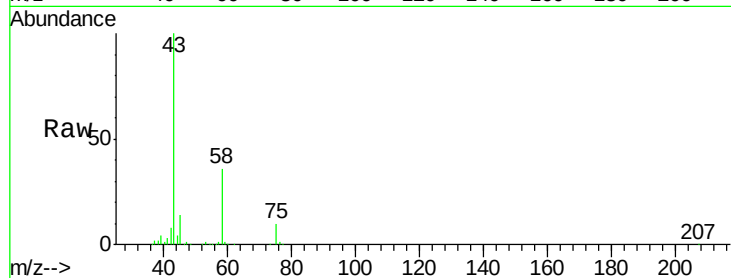




#16
Acetone
Concen: 75.837 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX019065.D
Acq: 23 Oct 2020 06:33

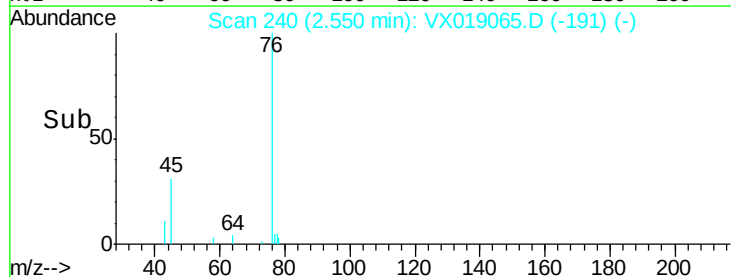
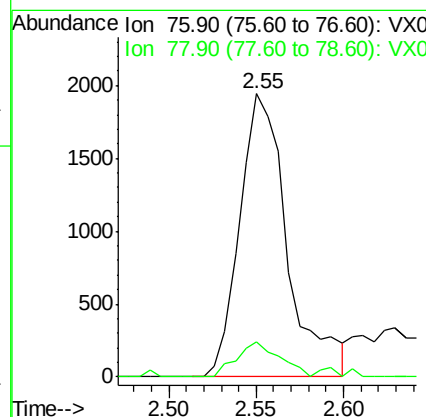
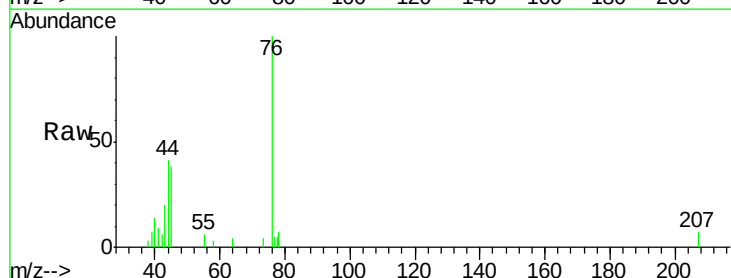
Instrument :
MSVOA_X
ClientSampleId :
201021073-02-VOA

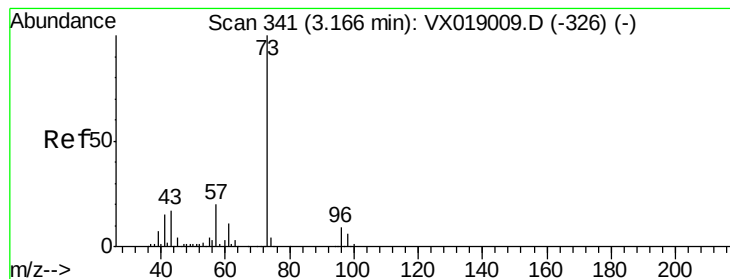
Tot Ion: 43 Resp: 87257
Ion Ratio Lower Upper
43 100
58 36.0 28.6 42.8



#17
Carbon Disulfide
Concen: 0.468 ug/l
RT: 2.55 min Scan# 240
Delta R.T. -0.00 min
Lab File: VX019065.D
Acq: 23 Oct 2020 06:33

Tgt Ion: 76 Resp: 3707
Ion Ratio Lower Upper
76 100
78 12.4 7.1 10.7#



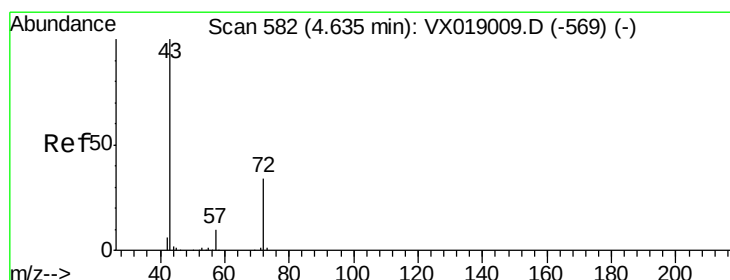
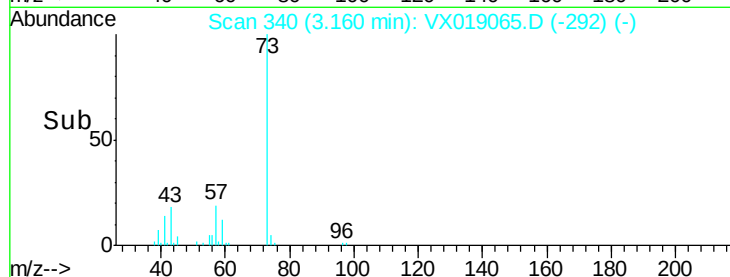
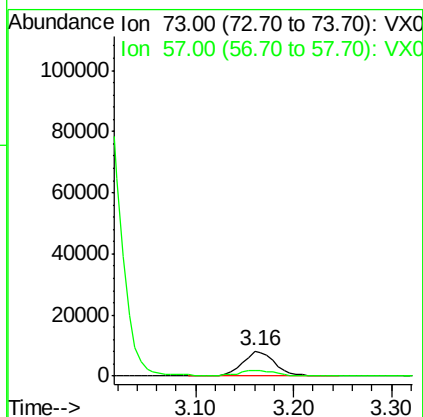
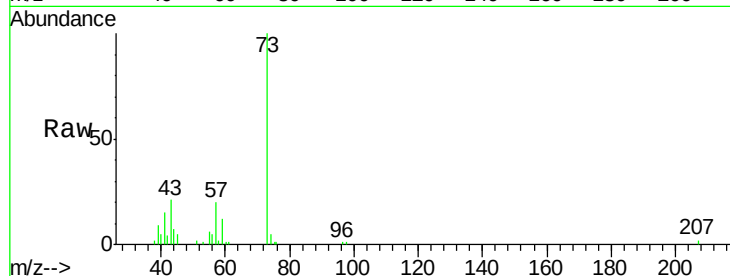


#19

Methyl tert-butyl Ether
 Concen: 2.148 ug/l
 RT: 3.16 min Scan# 340
 Delta R.T. -0.01 min
 Lab File: VX019065.D
 Acq: 23 Oct 2020 06:33

Instrument :
 MSVOA_X
 ClientSampleId :
 201021073-02-VOA

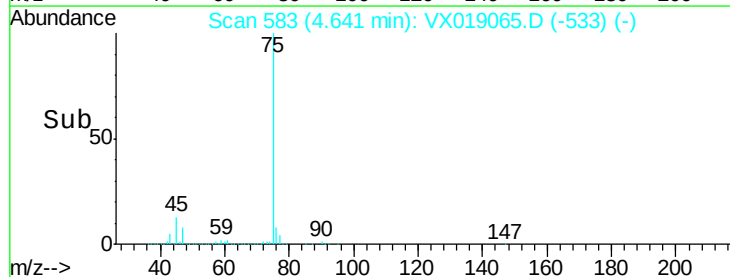
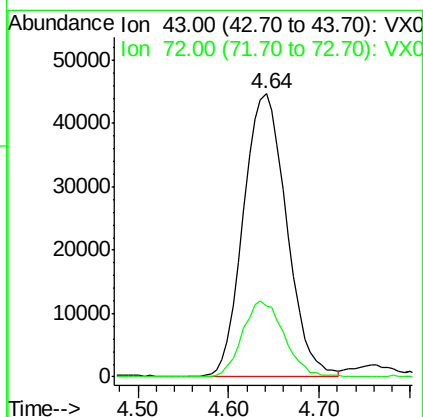
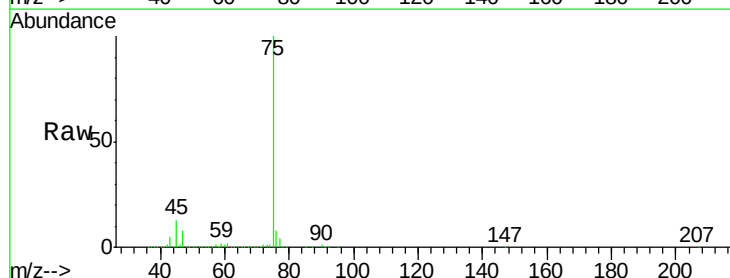
Tot Ion: 73 Resp: 18677
 Ion Ratio Lower Upper
 73 100
 57 19.1 16.2 24.2

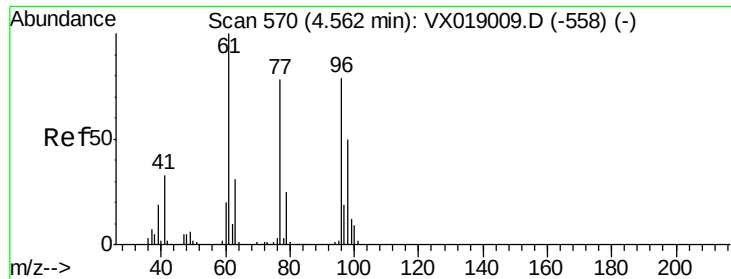


#25

2-Butanone
 Concen: 80.557 ug/l
 RT: 4.64 min Scan# 583
 Delta R.T. 0.01 min
 Lab File: VX019065.D
 Acq: 23 Oct 2020 06:33

Tgt Ion: 43 Resp: 146454
 Ion Ratio Lower Upper
 43 100
 72 25.1 27.8 41.6#



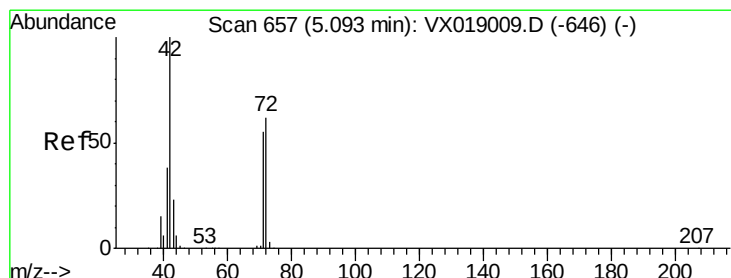
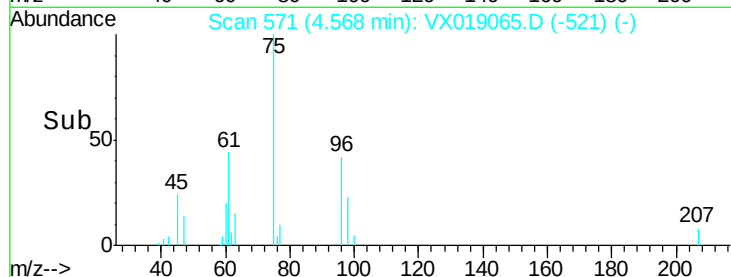
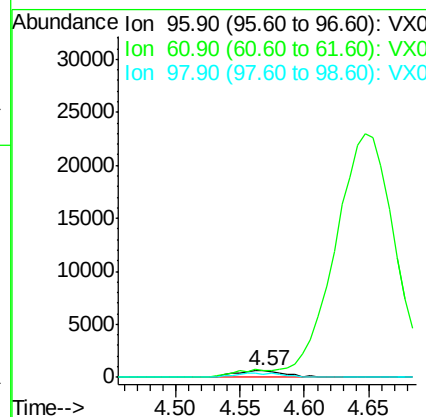
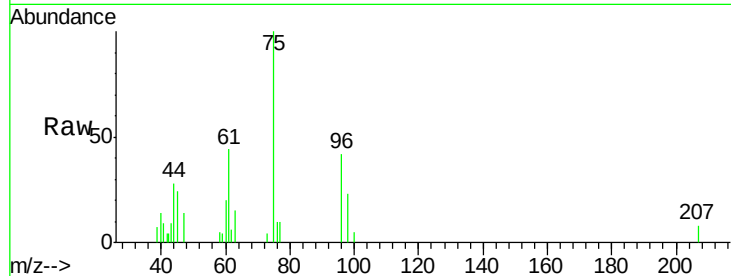


#27

cis-1,2-Dichloroethene
 Concen: 0.487 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. 0.01 min
 Lab File: VX019065.D
 Acq: 23 Oct 2020 06:33

Instrument :
 MSVOA_X
 ClientSampleId :
 201021073-02-VOA

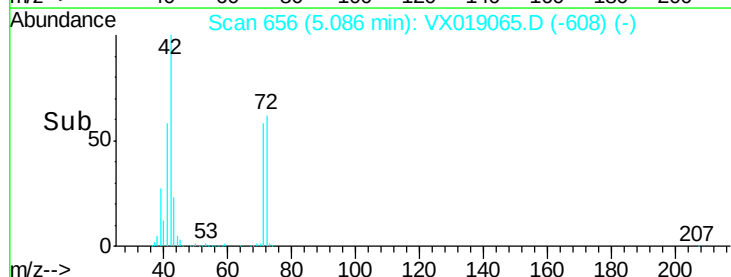
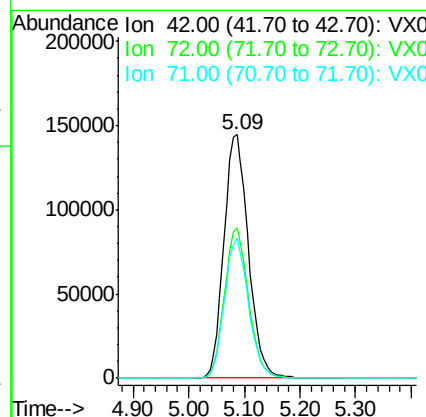
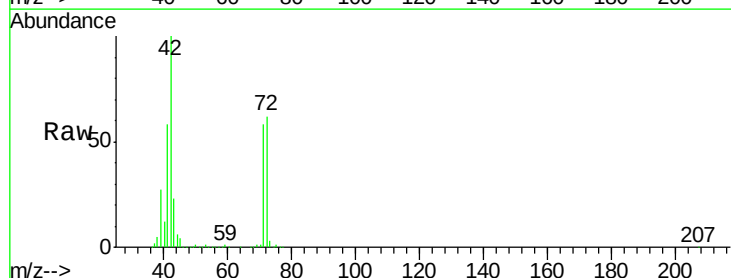
Tot Ion: 96 Resp: 1770
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 260.0
 98 65.8 0.0 131.4

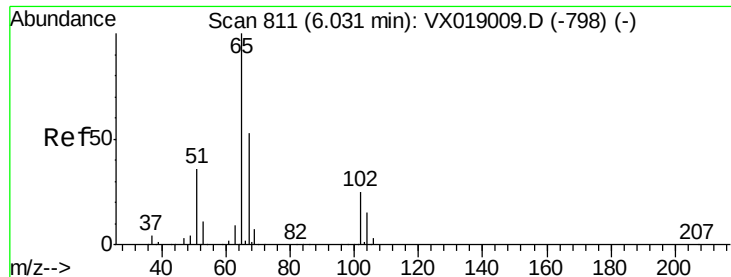


#29

Tetrahydrofuran
 Concen: 404.799 ug/l
 RT: 5.09 min Scan# 656
 Delta R.T. -0.01 min
 Lab File: VX019065.D
 Acq: 23 Oct 2020 06:33

Tgt Ion: 42 Resp: 439863
 Ion Ratio Lower Upper
 42 100
 72 60.6 49.1 73.7
 71 56.4 44.2 66.4

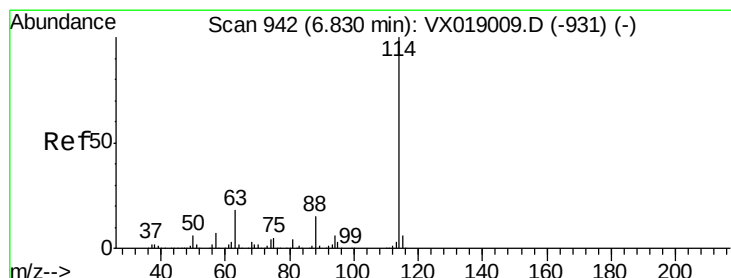
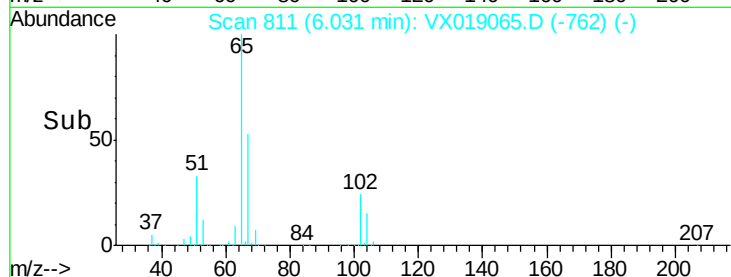
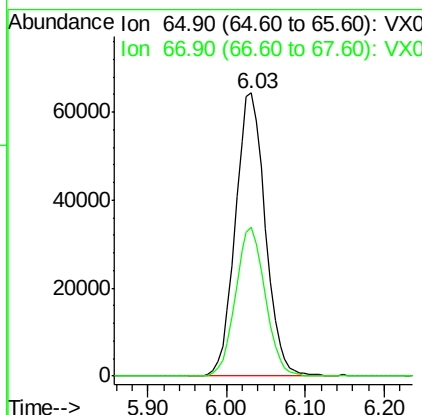
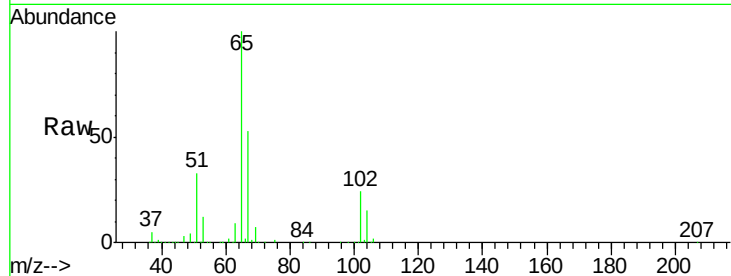




#33
 1,2-Dichloroethane-d4
 Concen: 50.340 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019065.D
 Acq: 23 Oct 2020 06:33

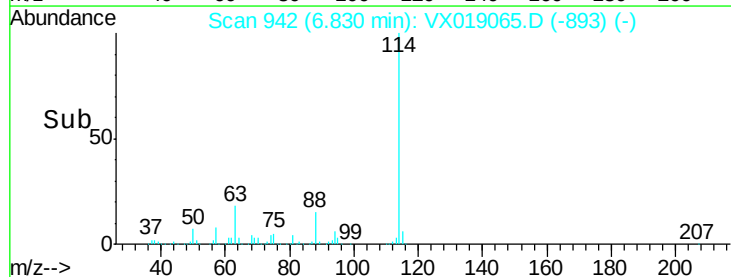
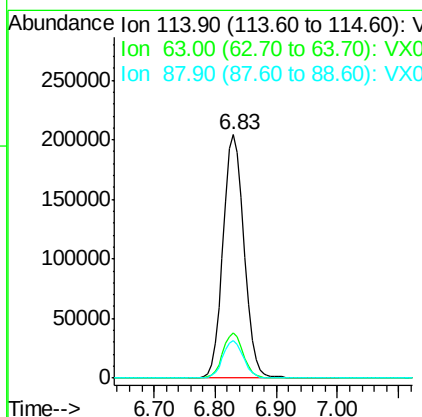
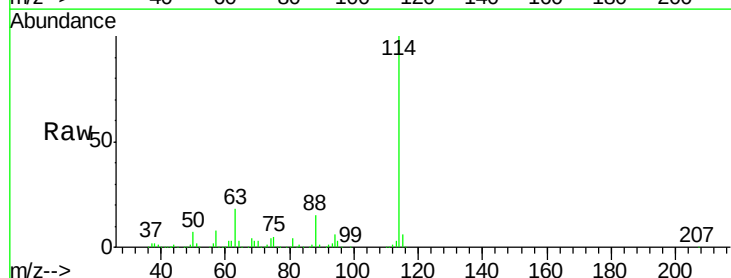
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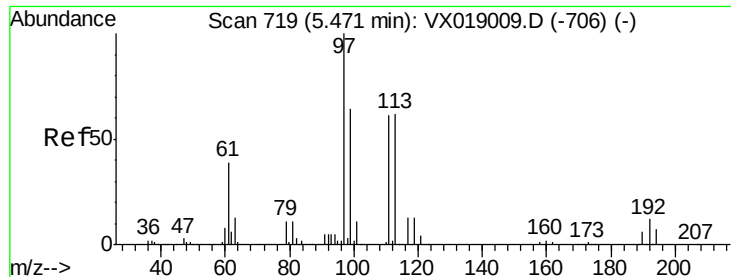
Tot Ion: 65 Resp: 170046
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019065.D
 Acq: 23 Oct 2020 06:33

Tgt Ion: 114 Resp: 485687
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 36.8
 88 15.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.312 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.01 min

Lab File: VX019065.D

Acq: 23 Oct 2020 06:33

Instrument :

MSVOA_X

ClientSampleId :

201021073-02-VOA

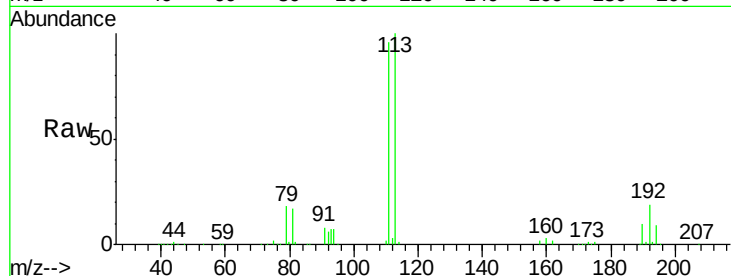
Tot Ion:113 Resp: 151635

Ion Ratio Lower Upper

113 100

111 101.7 81.5 122.3

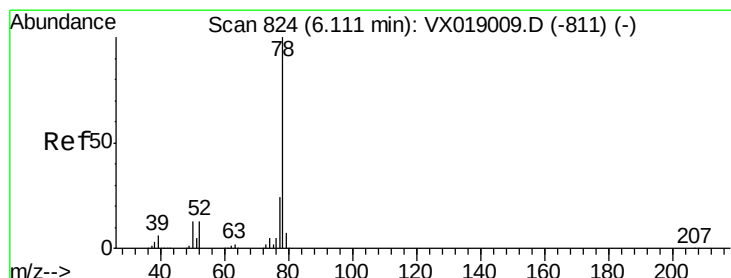
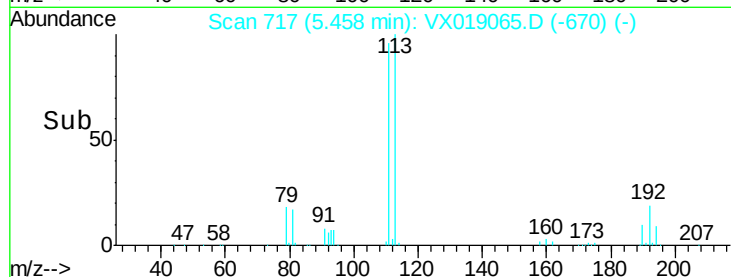
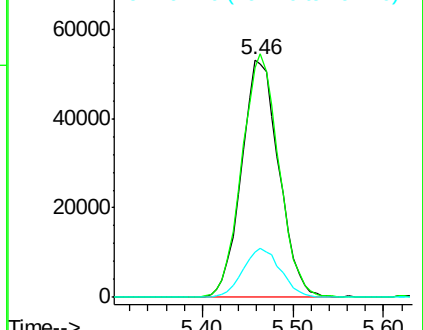
192 20.9 16.3 24.5



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: 3.383 ug/l

RT: 6.11 min Scan# 824

Delta R.T. -0.00 min

Lab File: VX019065.D

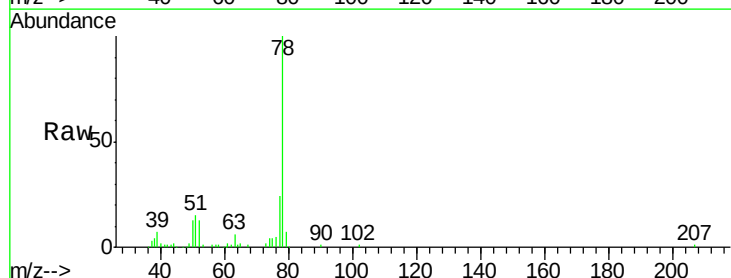
Acq: 23 Oct 2020 06:33

Tgt Ion: 78 Resp: 43424

Ion Ratio Lower Upper

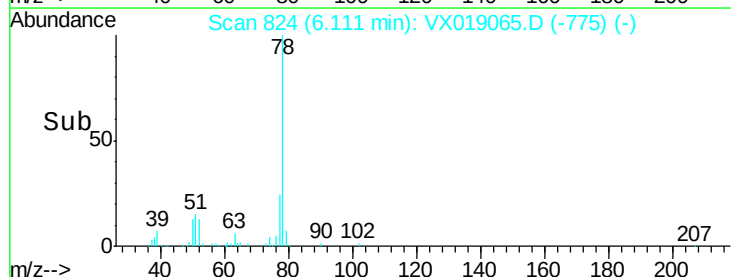
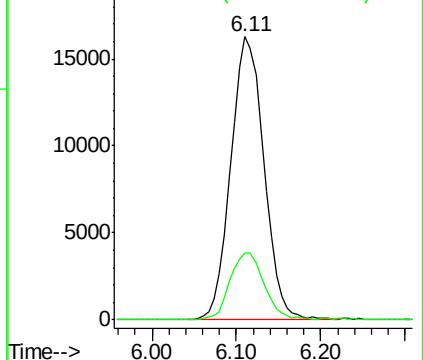
78 100

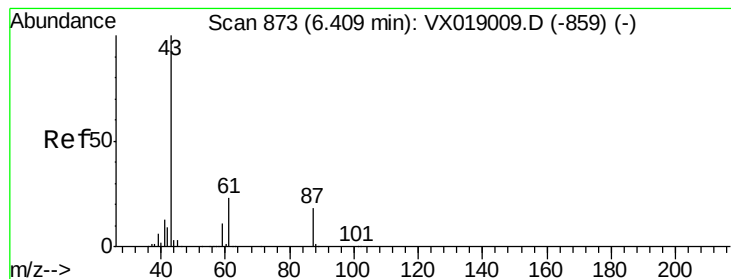
77 23.7 19.3 28.9



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#43

Isopropyl Acetate

Concen: 0.337 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.00 min

Lab File: VX019065.D

Acq: 23 Oct 2020 06:33

Instrument :

MSVOA_X

ClientSampleId :

201021073-02-VOA

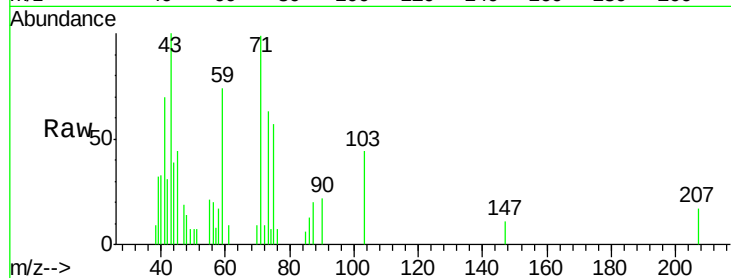
Tot Ion: 43 Resp: 2124

Ion Ratio Lower Upper

43 100

61 5.7 18.7 28.1#

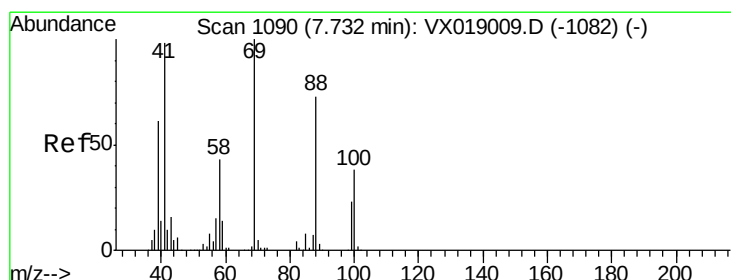
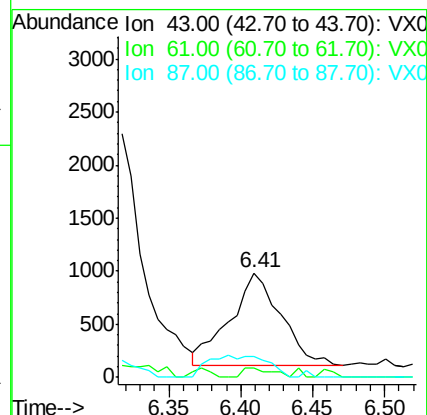
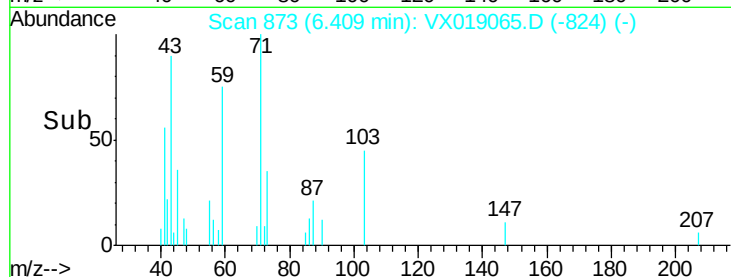
87 14.8 14.2 21.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#49

1,4-Dioxane

Concen: 82.286 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VX019065.D

Acq: 23 Oct 2020 06:33

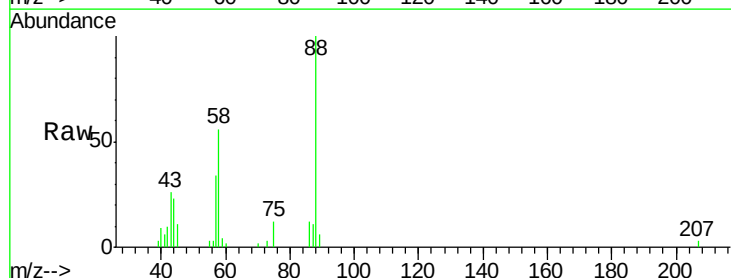
Tgt Ion: 88 Resp: 5771

Ion Ratio Lower Upper

88 100

43 24.6 20.3 30.5

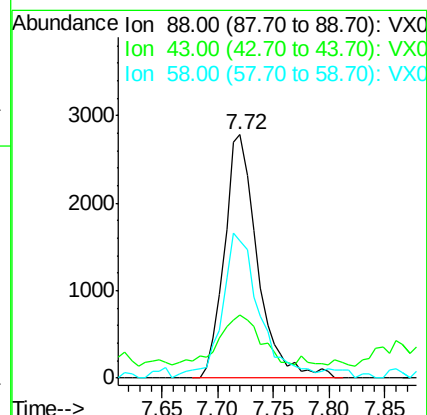
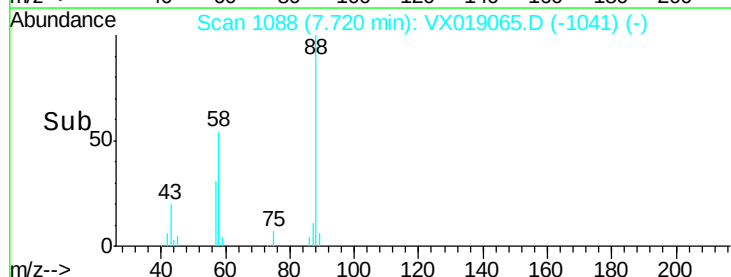
58 66.6 48.4 72.6

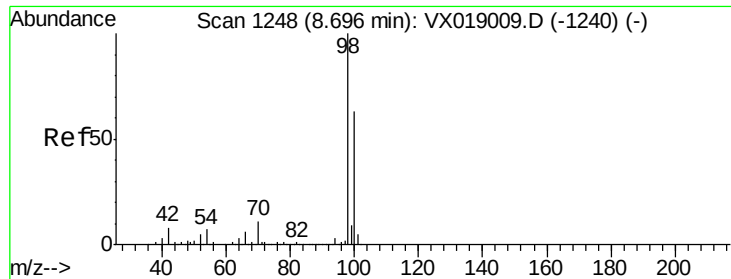


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

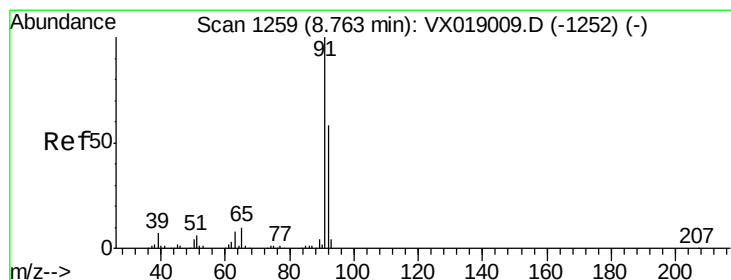
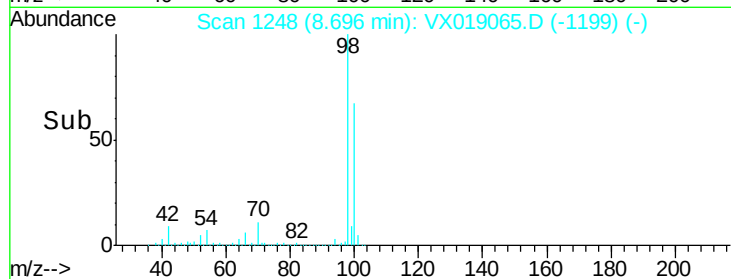
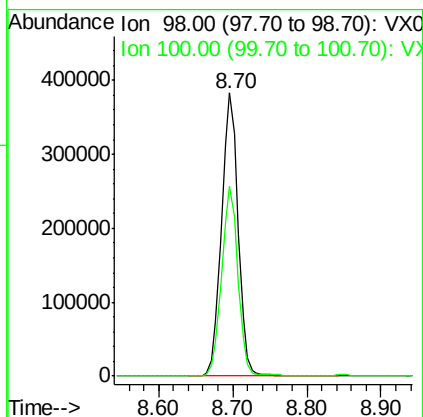
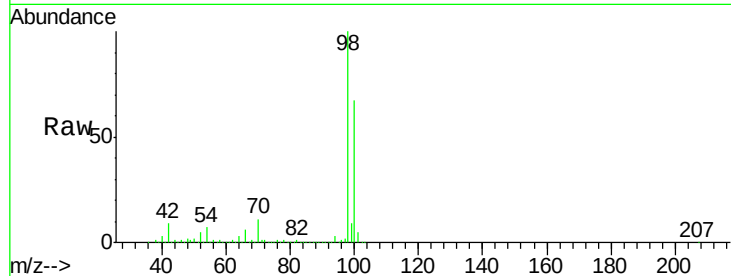




#50
Toluene-d8
Concen: 50.430 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019065.D
Acq: 23 Oct 2020 06:33

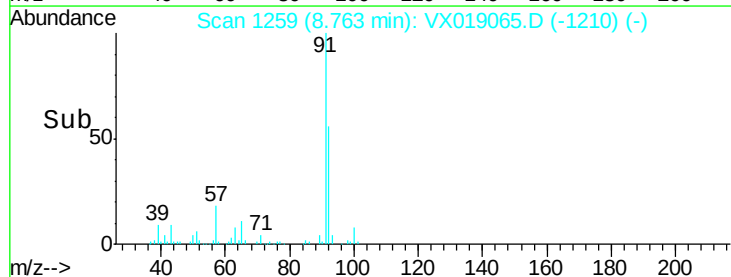
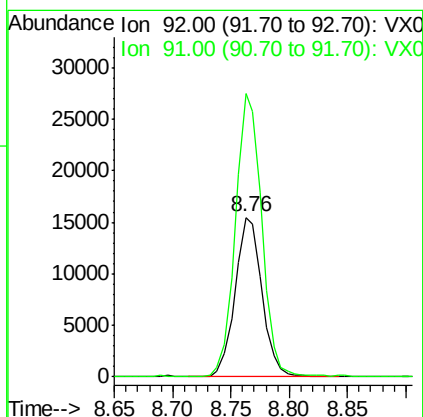
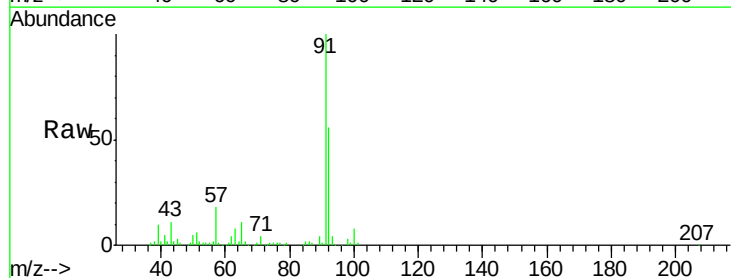
Instrument :
MSVOA_X
ClientSampleId :
201021073-02-VOA

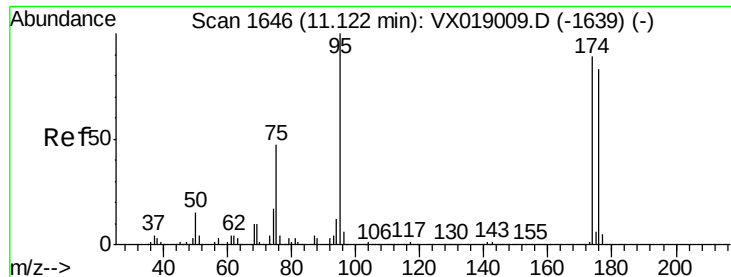
Tot Ion: 98 Resp: 591771
Ion Ratio Lower Upper
98 100
100 65.5 52.1 78.1



#52
Toluene
Concen: 2.943 ug/l
RT: 8.76 min Scan# 1259
Delta R.T. -0.00 min
Lab File: VX019065.D
Acq: 23 Oct 2020 06:33

Tgt Ion: 92 Resp: 24953
Ion Ratio Lower Upper
92 100
91 173.4 138.6 208.0





#62

4-Bromofluorobenzene

Concen: 52.285 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019065.D

Acq: 23 Oct 2020 06:33

Instrument :

MSVOA_X

ClientSampleId :

201021073-02-VOA

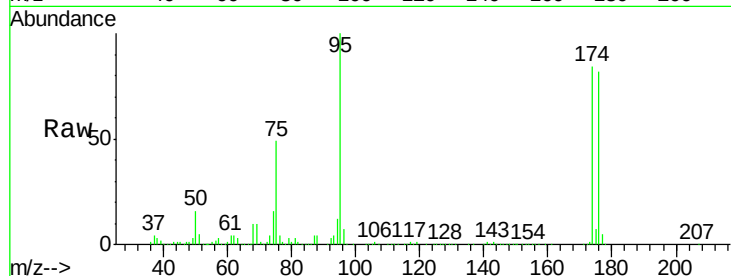
Tot Ion: 95 Resp: 218238

Ion Ratio Lower Upper

95 100

174 82.8 0.0 167.6

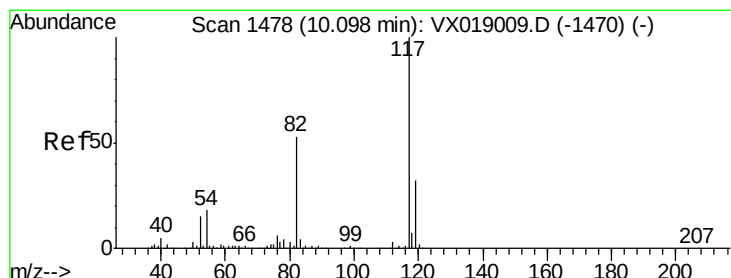
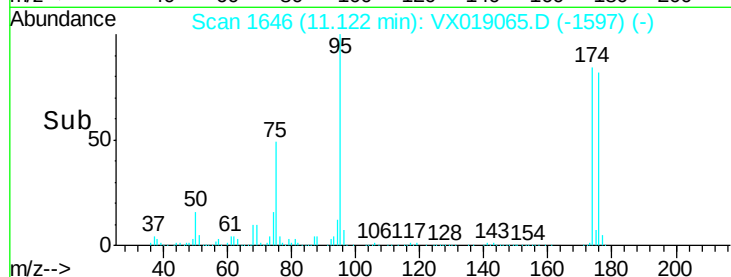
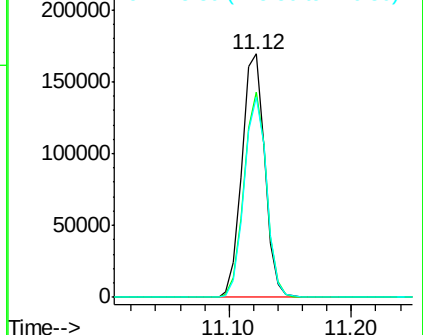
176 81.2 0.0 165.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019065.D

Acq: 23 Oct 2020 06:33

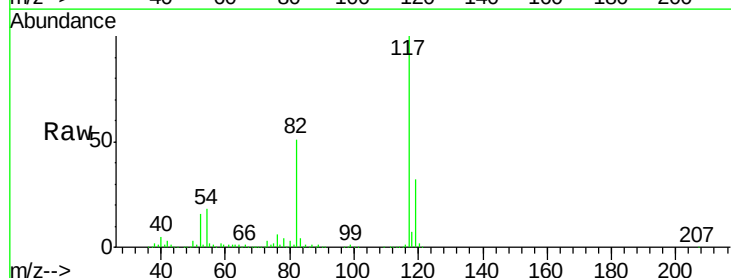
Tgt Ion: 117 Resp: 464256

Ion Ratio Lower Upper

117 100

82 51.5 42.4 63.6

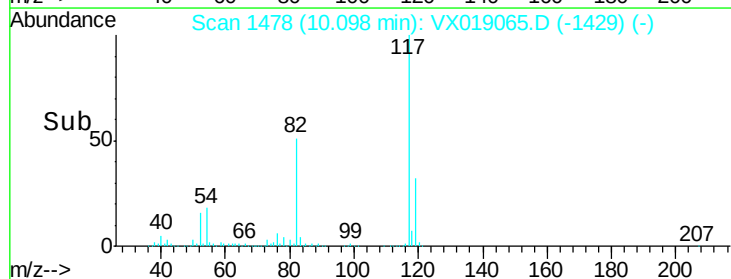
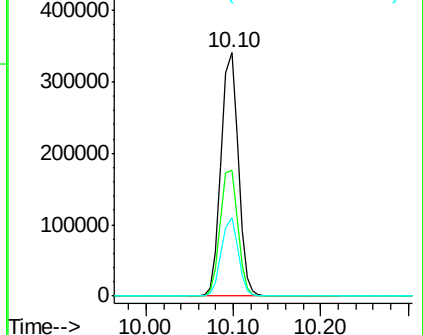
119 32.2 25.6 38.4

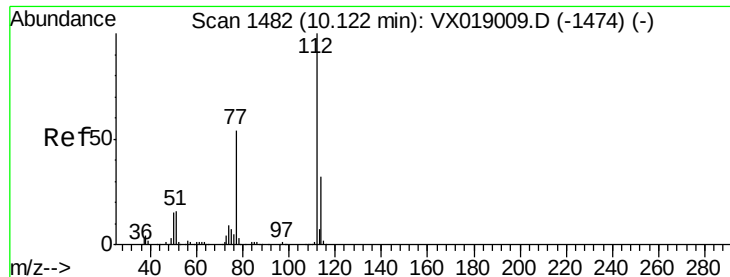


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#65

Chlorobenzene

Concen: 0.921 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX019065.D

Acq: 23 Oct 2020 06:33

Instrument :

MSVOA_X

ClientSampleId :

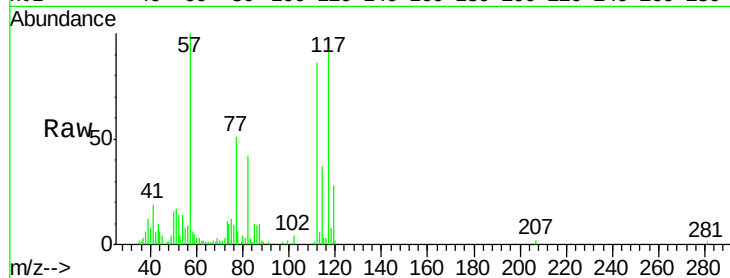
201021073-02-VOA

Tot Ion:112 Resp: 8966

Ion Ratio Lower Upper

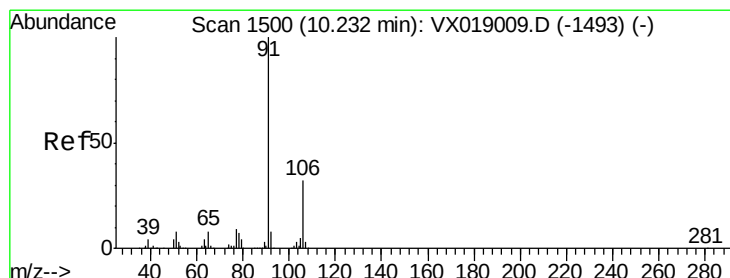
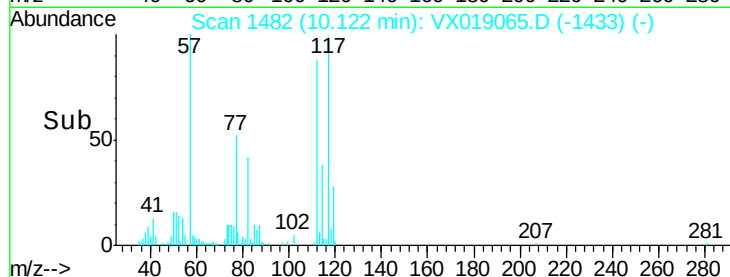
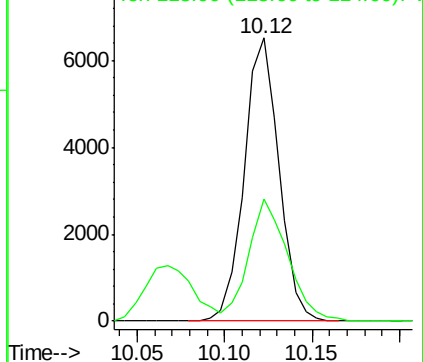
112 100

114 42.1 25.5 38.3#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#67

Ethyl Benzene

Concen: 5.168 ug/l

RT: 10.23 min Scan# 1500

Delta R.T. -0.00 min

Lab File: VX019065.D

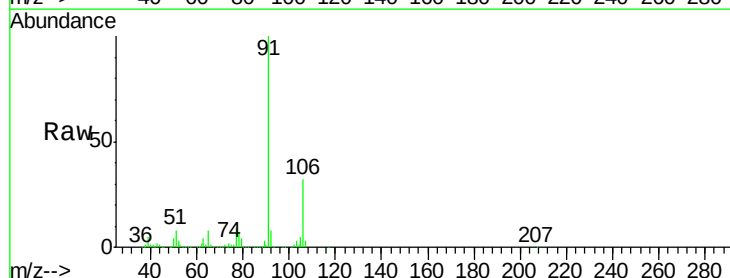
Acq: 23 Oct 2020 06:33

Tgt Ion: 91 Resp: 86749

Ion Ratio Lower Upper

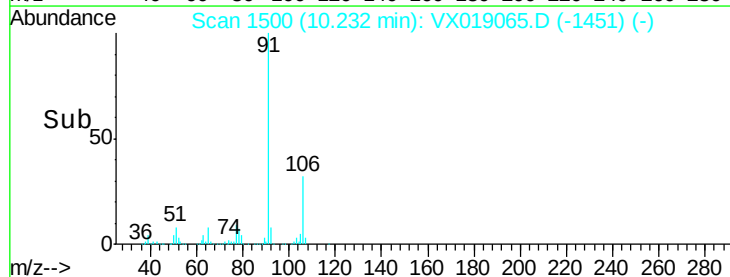
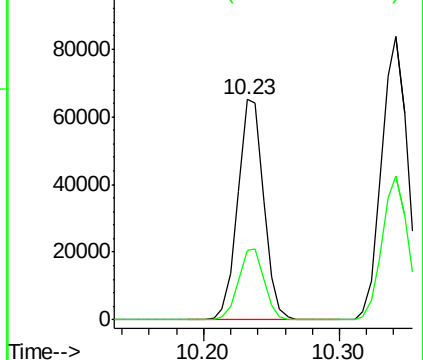
91 100

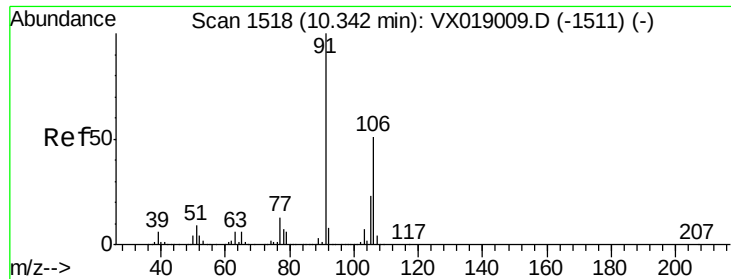
106 31.6 25.3 37.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

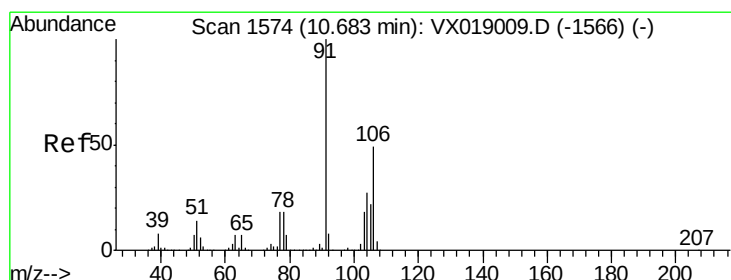
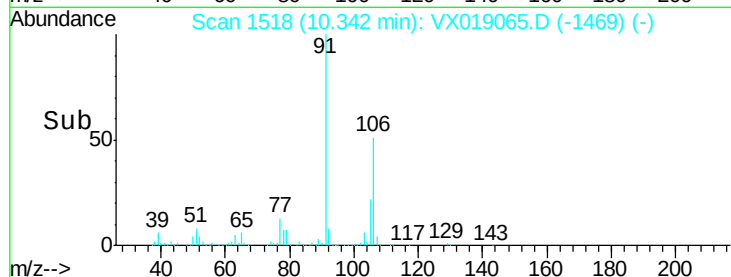
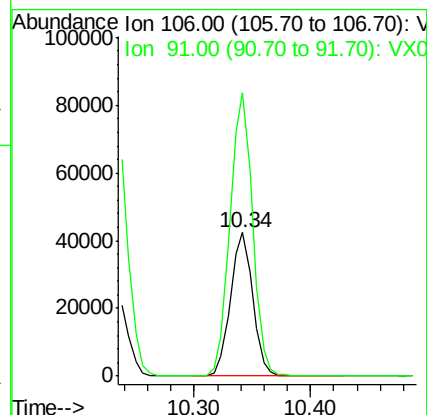
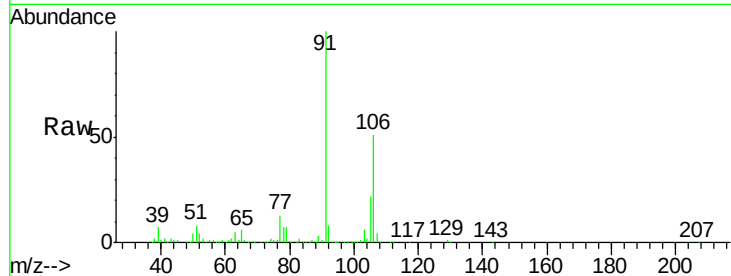




#68
m/p-Xylenes
Concen: 8.756 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX019065.D
Acq: 23 Oct 2020 06:33

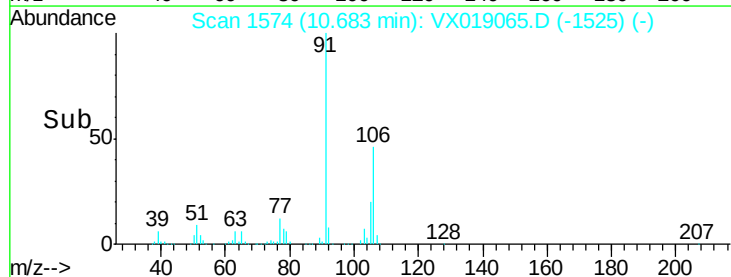
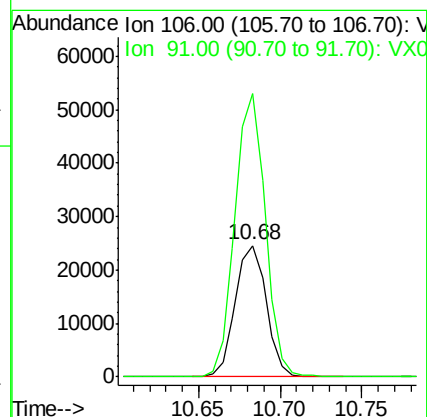
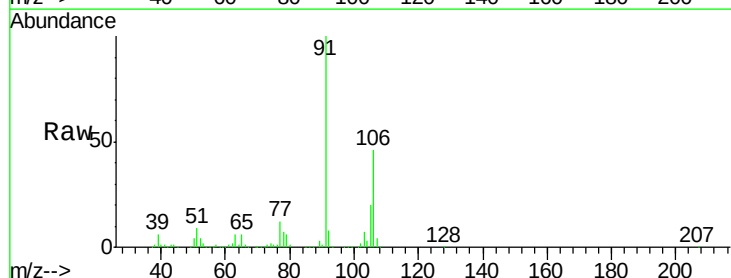
Instrument :
MSVOA_X
ClientSampleId :
201021073-02-VOA

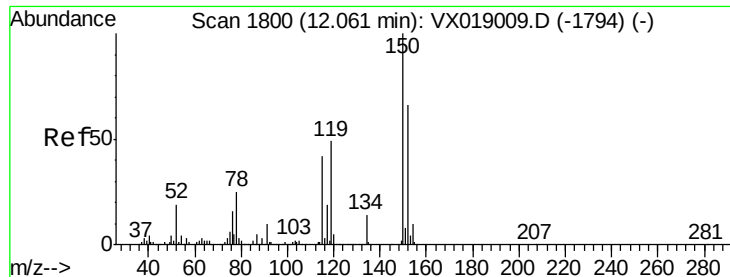
Tot Ion:106 Resp: 56301
Ion Ratio Lower Upper
106 100
91 199.3 156.9 235.3



#69
o-Xylene
Concen: 5.308 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX019065.D
Acq: 23 Oct 2020 06:33

Tgt Ion:106 Resp: 32669
Ion Ratio Lower Upper
106 100
91 211.5 104.0 312.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019065.D

Acq: 23 Oct 2020 06:33

Instrument :

MSVOA_X

ClientSampleId :

201021073-02-VOA

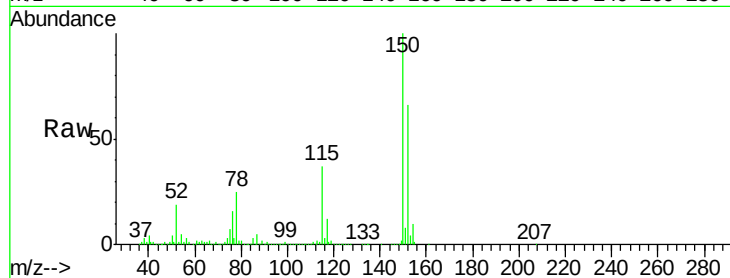
Tot Ion:152 Resp: 247526

Ion Ratio Lower Upper

152 100

115 57.0 40.8 122.5

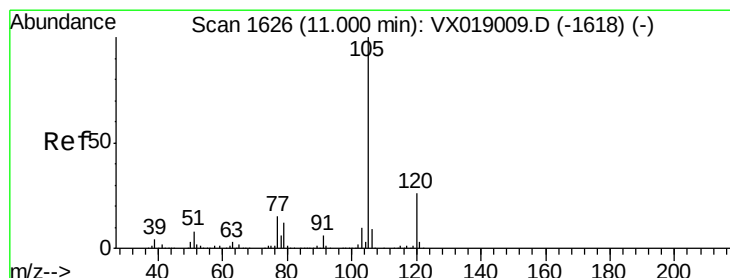
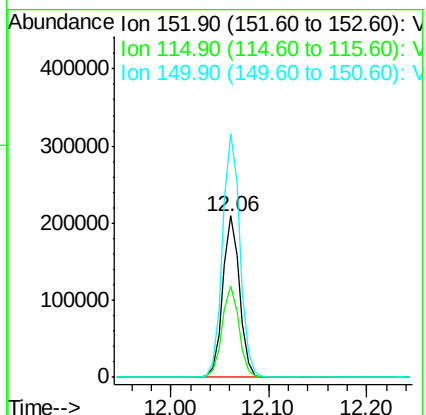
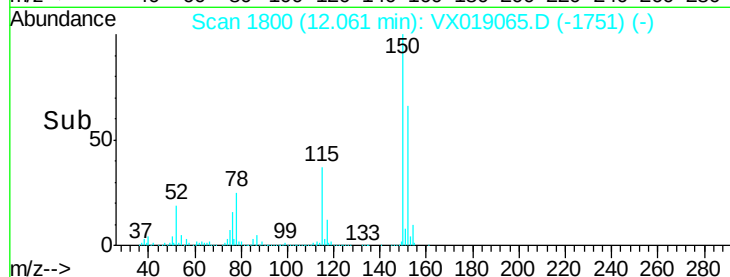
150 157.0 0.0 345.6



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



#73

Isopropylbenzene

Concen: 0.649 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX019065.D

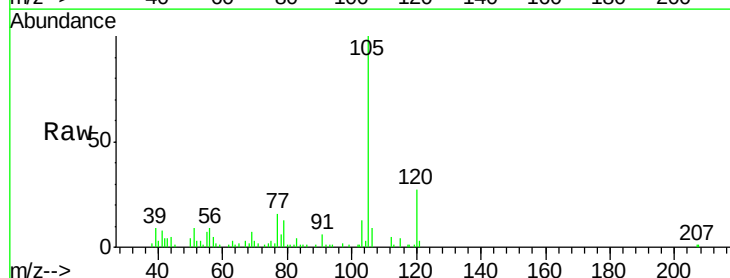
Acq: 23 Oct 2020 06:33

Tgt Ion:105 Resp: 11548

Ion Ratio Lower Upper

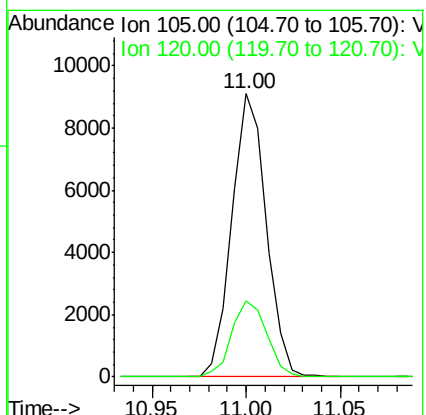
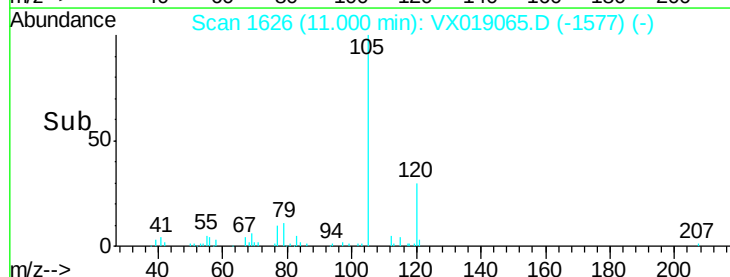
105 100

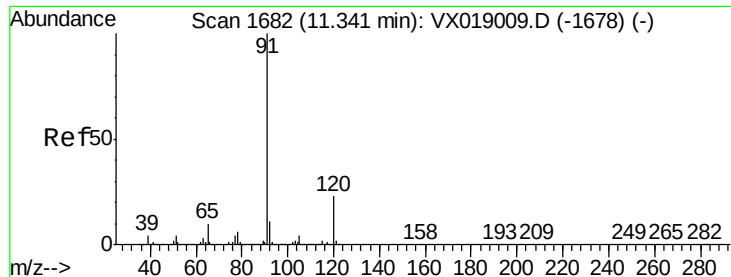
120 27.6 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 0.274 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VX019065.D

Acq: 23 Oct 2020 06:33

Instrument :

MSVOA_X

ClientSampleId :

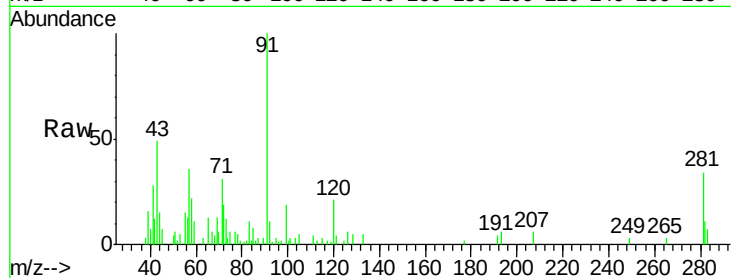
201021073-02-VOA

Tot Ion: 91 Resp: 5527

Ion Ratio Lower Upper

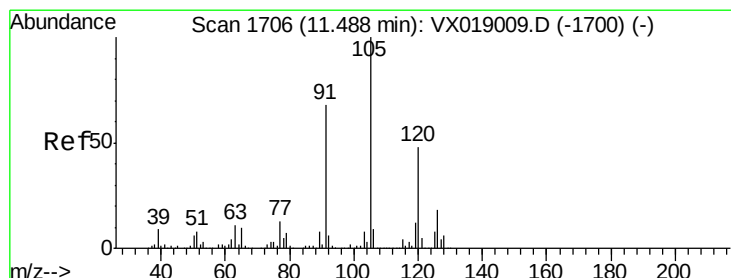
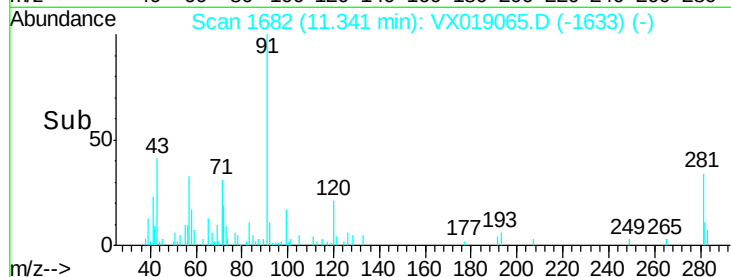
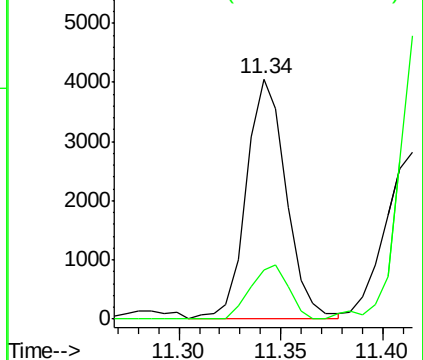
91 100

120 21.3 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 0.748 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX019065.D

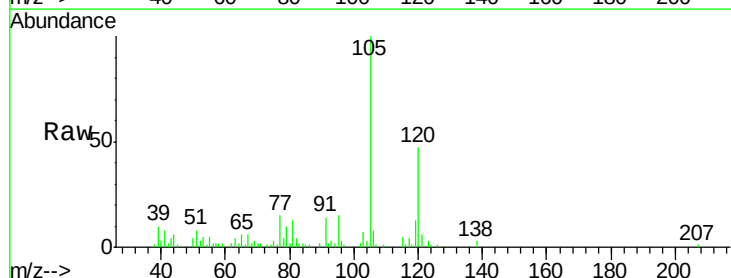
Acq: 23 Oct 2020 06:33

Tgt Ion: 105 Resp: 10999

Ion Ratio Lower Upper

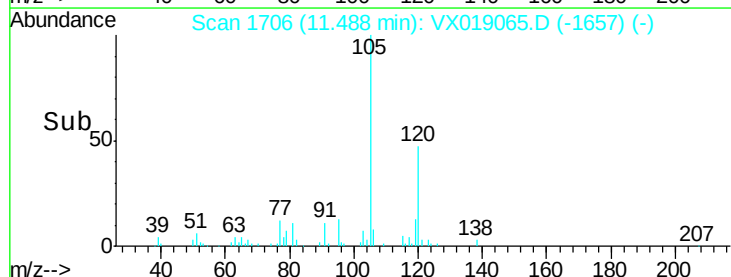
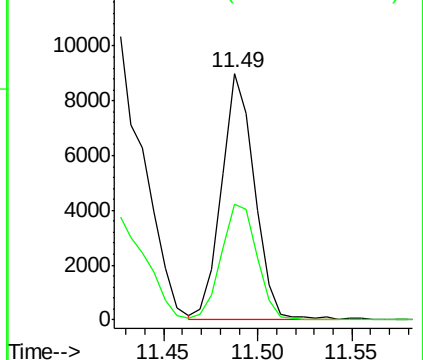
105 100

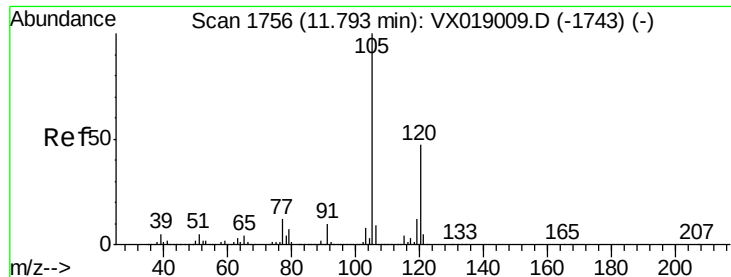
120 50.5 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 2.717 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX019065.D

Acq: 23 Oct 2020 06:33

Instrument :

MSVOA_X

ClientSampleId :

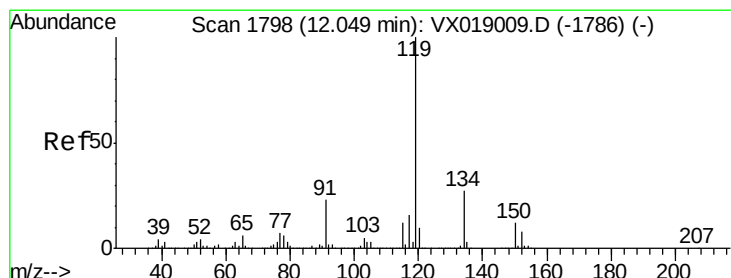
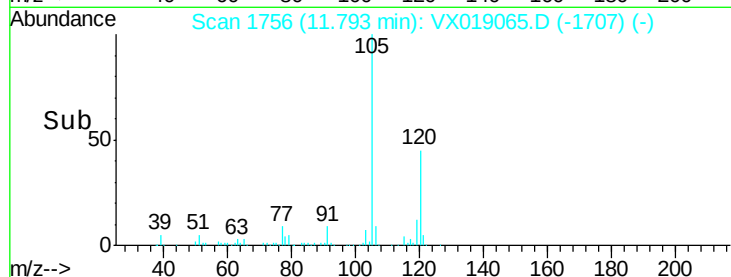
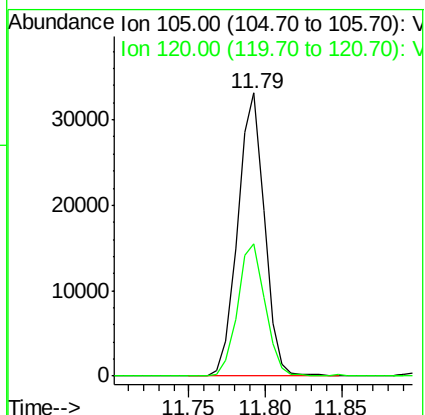
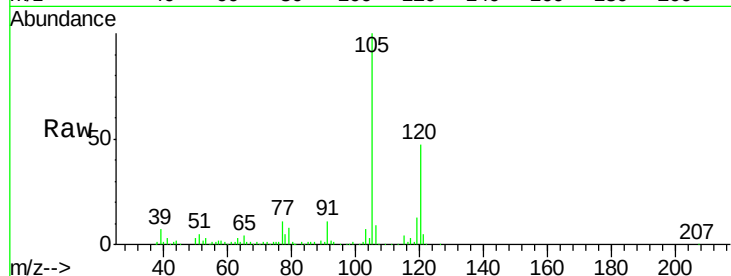
201021073-02-VOA

Tot Ion:105 Resp: 40001

Ion Ratio Lower Upper

105 100

120 48.4 22.9 68.8



#86

p-Isopropyltoluene

Concen: 1.615 ug/l

RT: 12.05 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VX019065.D

Acq: 23 Oct 2020 06:33

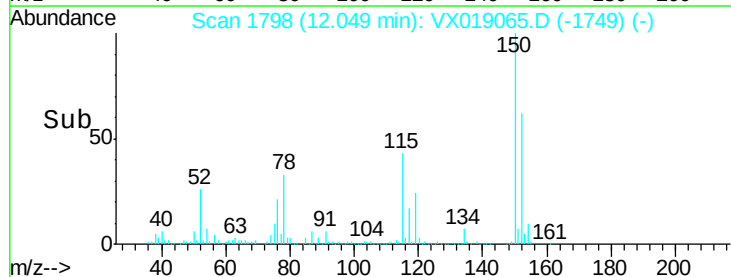
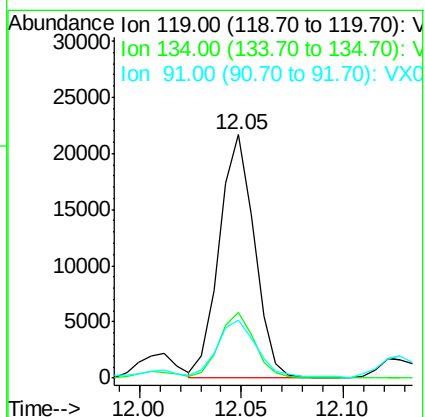
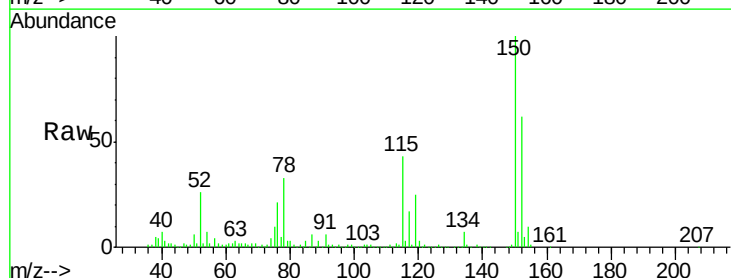
Tgt Ion:119 Resp: 25870

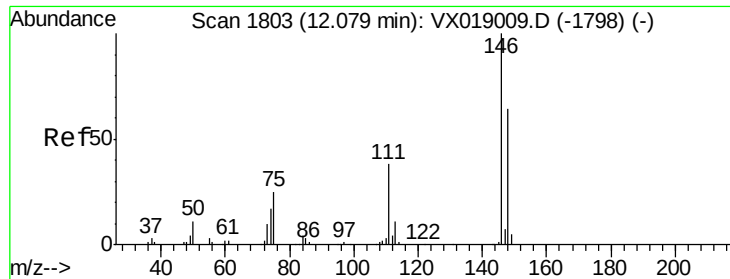
Ion Ratio Lower Upper

119 100

134 27.1 13.3 39.8

91 26.2 11.4 34.2

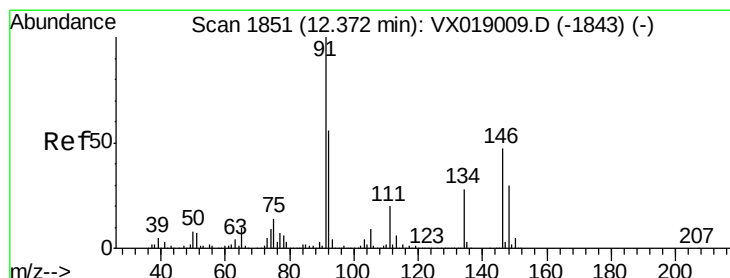
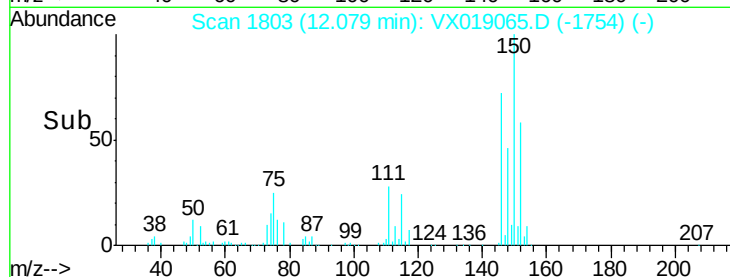
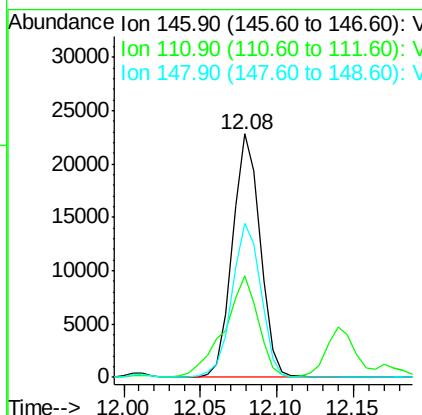
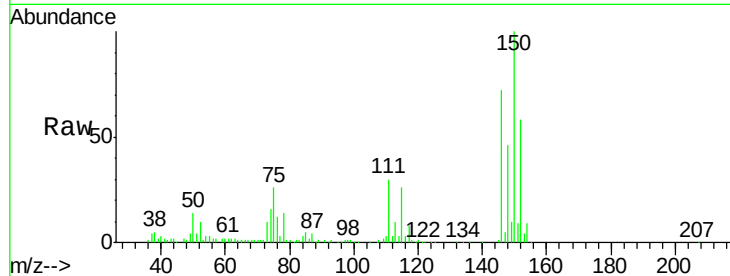




#88
 1,4-Dichlorobenzene
 Concen: 3.387 ug/l
 RT: 12.08 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VX019065.D
 Acq: 23 Oct 2020 06:33

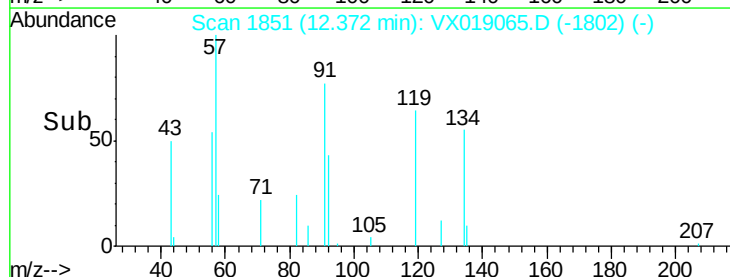
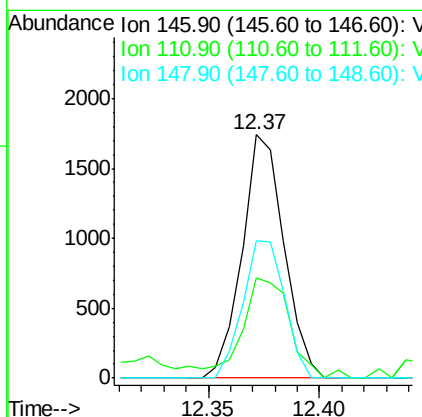
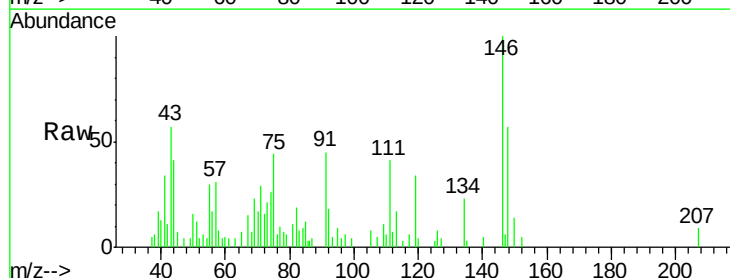
Instrument :
 MSVOA_X
 ClientSampleId :
 201021073-02-VOA

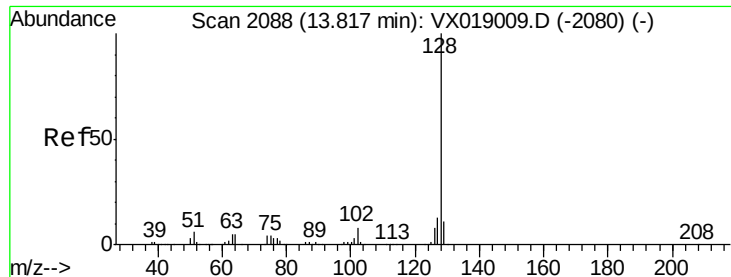
Tot Ion:146 Resp: 28672
 Ion Ratio Lower Upper
 146 100
 111 50.3 19.4 58.2
 148 66.0 32.2 96.6



#91
 1,2-Dichlorobenzene
 Concen: 0.297 ug/l
 RT: 12.37 min Scan# 1851
 Delta R.T. -0.00 min
 Lab File: VX019065.D
 Acq: 23 Oct 2020 06:33

Tgt Ion:146 Resp: 2287
 Ion Ratio Lower Upper
 146 100
 111 46.6 19.9 59.7
 148 56.1 31.4 94.3





#95

Naphthalene

Concen: 10.614 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX019065.D

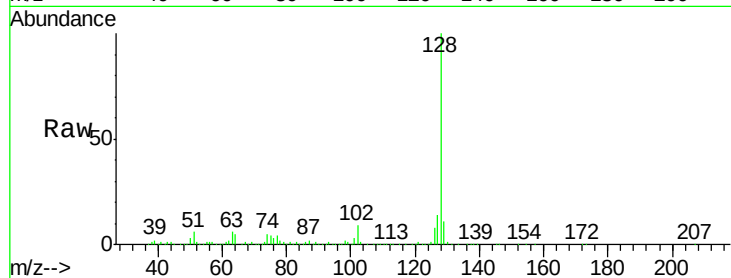
Acq: 23 Oct 2020 06:33

Instrument :

MSVOA_X

ClientSampleId :

201021073-02-VOA



Tot Ion:128 Resp: 187922

Ion Ratio Lower Upper

128 100

127 13.0 10.5 15.7

129 11.0 8.7 13.1

