

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112520\
 Data File : VX019658.D
 Acq On : 25 Nov 2020 15:55
 Operator : JC/MD
 Sample : L4841-03 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 16881

Quant Time: Nov 26 06:35:06 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	298621	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	493770	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	436696	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	199457	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	186664	48.21	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.42%
35) Dibromofluoromethane	5.46	113	146063	47.13	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.26%
50) Toluene-d8	8.70	98	583790	48.47	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	96.94%
62) 4-Bromofluorobenzene	11.12	95	207090	47.79	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	95.58%

Target Compounds

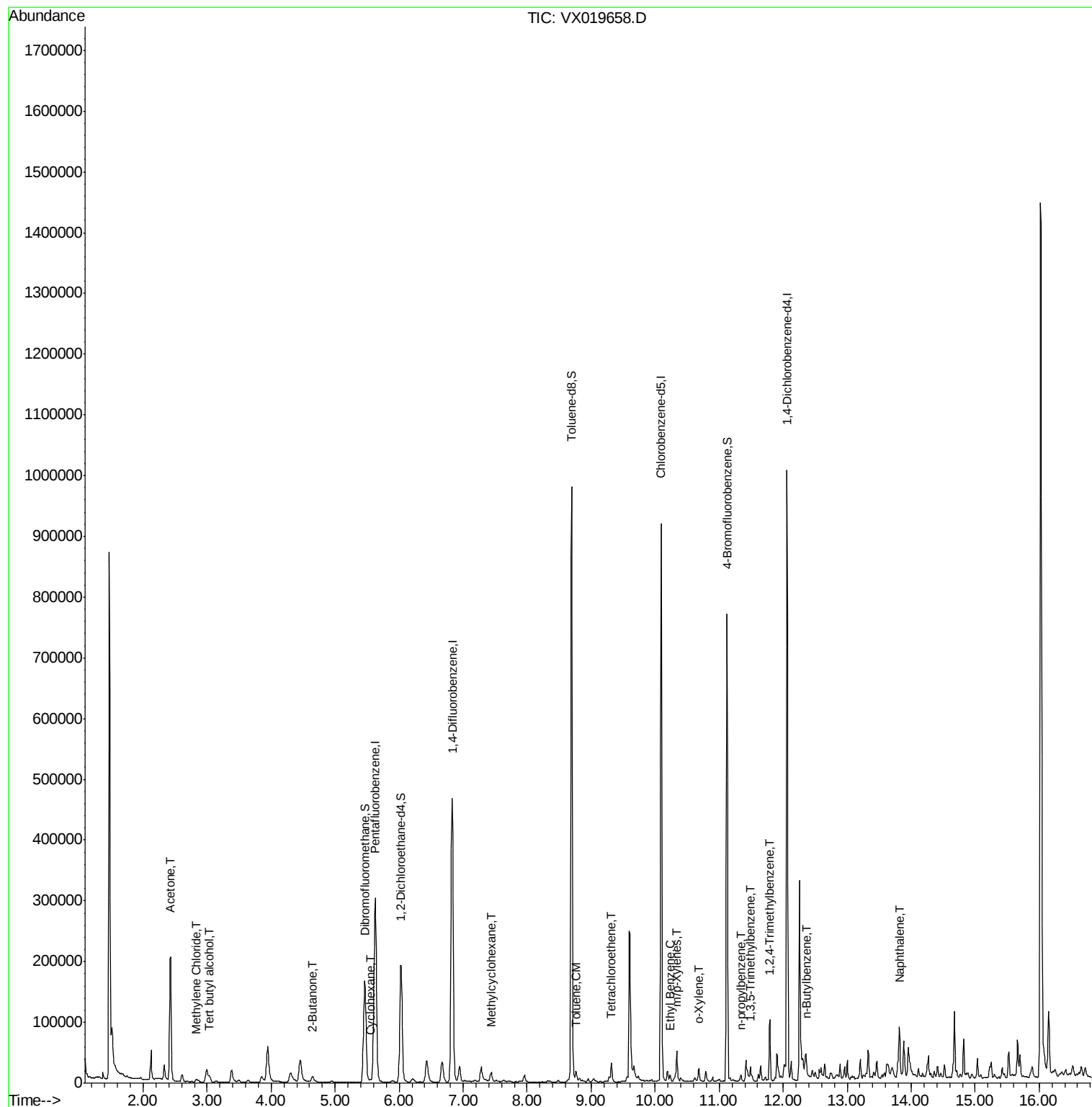
					Qvalue	
11) Tert butyl alcohol	3.03	59	10582	14.441	ug/l #	89
16) Acetone	2.43	43	219555	146.632	ug/l	99
20) Methylene Chloride	2.83	84	1966	0.525	ug/l #	90
25) 2-Butanone	4.65	43	14985	6.662	ug/l	99
31) Cyclohexane	5.55	56	2746	0.545	ug/l #	95
39) Methylcyclohexane	7.44	83	7289	1.352	ug/l	94
52) Toluene	8.76	92	4514	0.519	ug/l	98
64) Tetrachloroethene	9.32	164	5937	1.730	ug/l	95
67) Ethyl Benzene	10.23	91	5373	0.342	ug/l	89
68) m/p-Xylenes	10.34	106	11718	2.000	ug/l	99
69) o-Xylene	10.68	106	4591	0.820	ug/l	99
78) n-propylbenzene	11.34	91	6259	0.395	ug/l	99
80) 1,3,5-Trimethylbenzene	11.49	105	10269	0.887	ug/l	98
84) 1,2,4-Trimethylbenzene	11.79	105	40606	3.467	ug/l	88
89) n-Butylbenzene	12.37	91	5278	0.483	ug/l #	44
95) Naphthalene	13.82	128	50578	5.466	ug/l #	97

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019658.D

Acq: 25 Nov 2020 15:55

Instrument :

MSVOA_X

ClientSampleId :

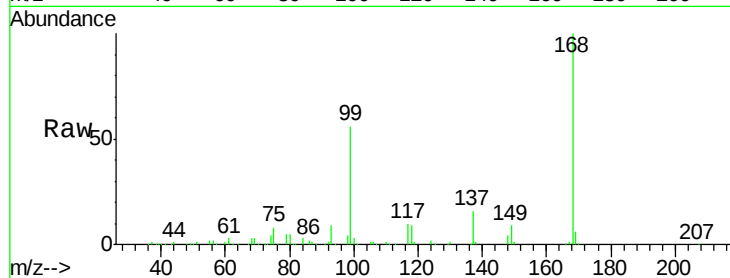
16881

Tot Ion:168 Resp: 298621

Ion Ratio Lower Upper

168 100

99 56.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

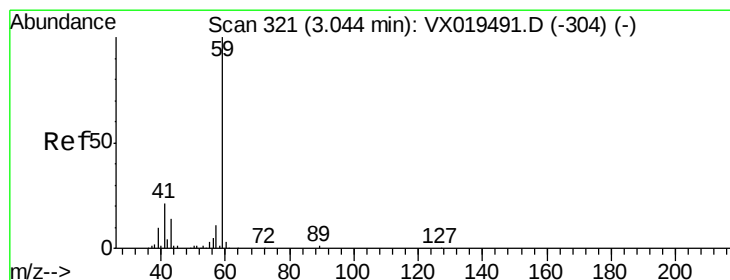
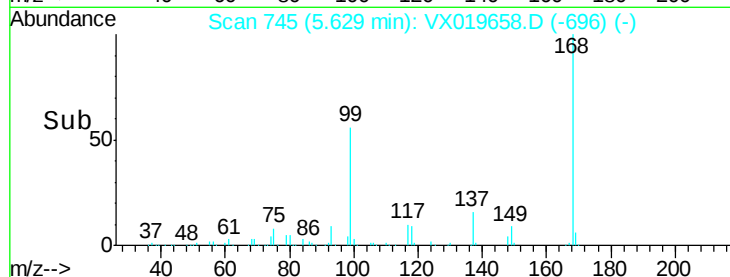
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 14.441 ug/l

RT: 3.03 min Scan# 319

Delta R.T. -0.01 min

Lab File: VX019658.D

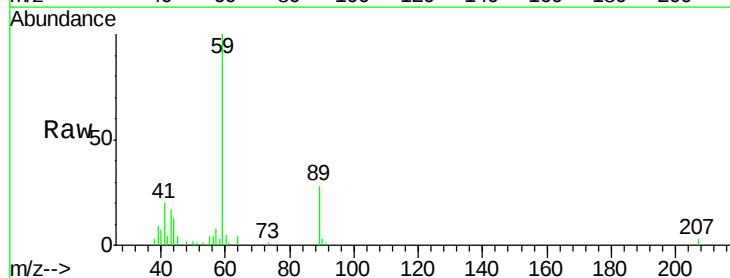
Acq: 25 Nov 2020 15:55

Tgt Ion: 59 Resp: 10582

Ion Ratio Lower Upper

59 100

57 13.8 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.03

6000

5000

4000

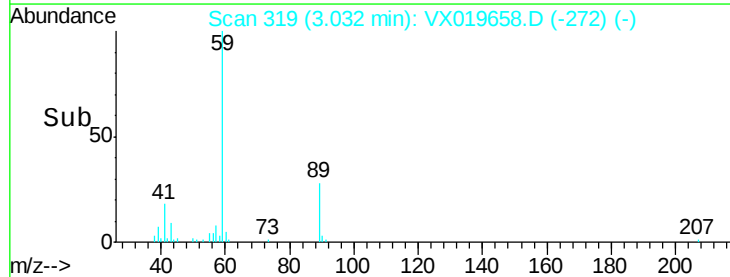
3000

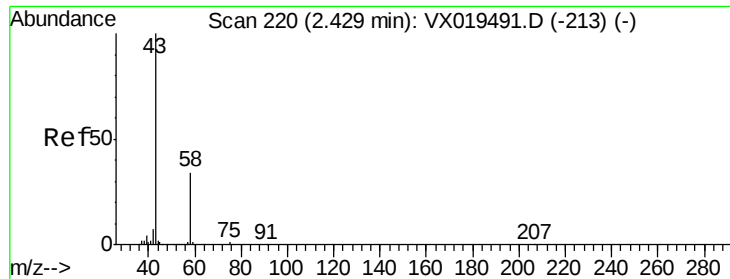
2000

1000

0

Time-->





#16

Acetone

Concen: 146.632 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019658.D

Acq: 25 Nov 2020 15:55

Instrument :

MSVOA_X

ClientSampled :

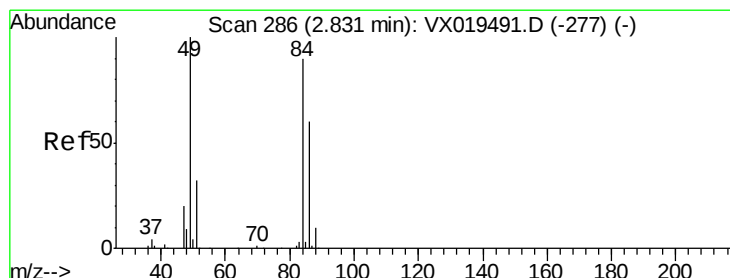
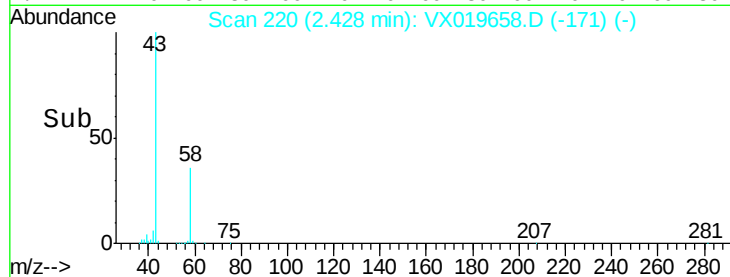
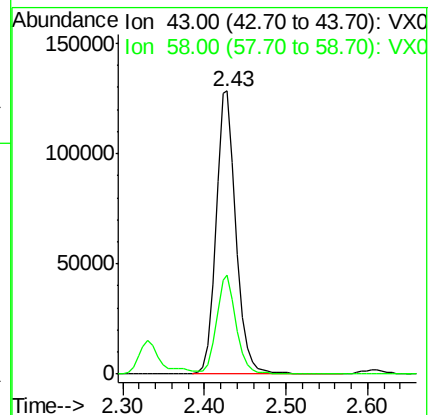
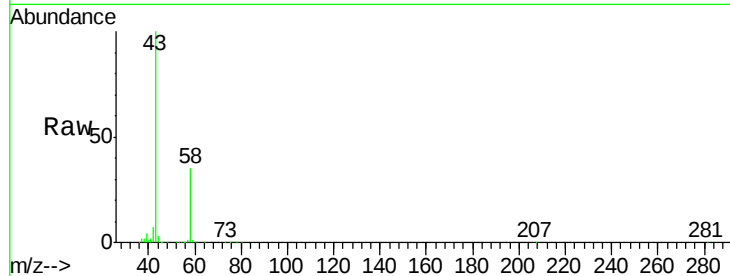
16881

Tot Ion: 43 Resp: 219555

Ion Ratio Lower Upper

43 100

58 34.8 27.4 41.2



#20

Methylene Chloride

Concen: 0.525 ug/l

RT: 2.83 min Scan# 286

Delta R.T. -0.00 min

Lab File: VX019658.D

Acq: 25 Nov 2020 15:55

Tgt Ion: 84 Resp: 1966

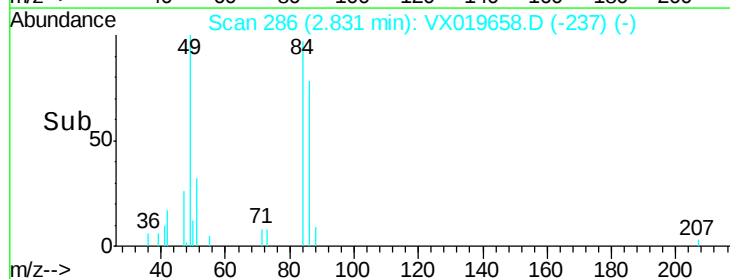
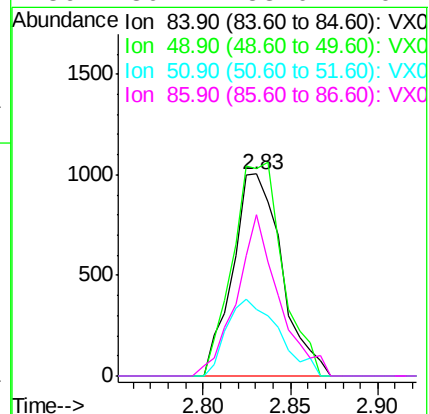
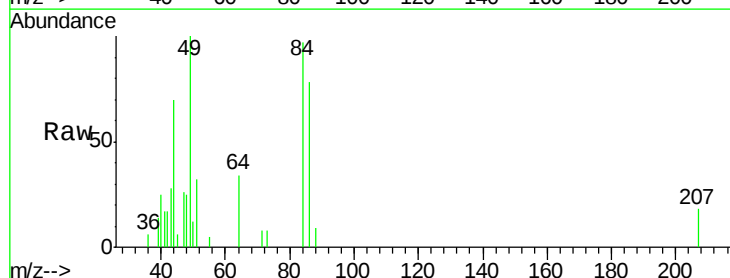
Ion Ratio Lower Upper

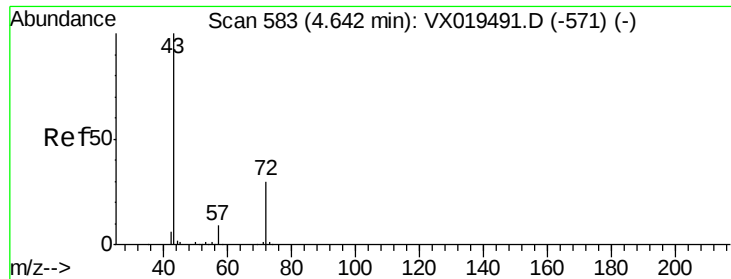
84 100

49 102.6 88.5 132.7

51 33.2 28.0 42.0

86 80.1 53.0 79.4#





#25

2-Butanone

Concen: 6.662 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019658.D

Acq: 25 Nov 2020 15:55

Instrument :

MSVOA_X

ClientSampled :

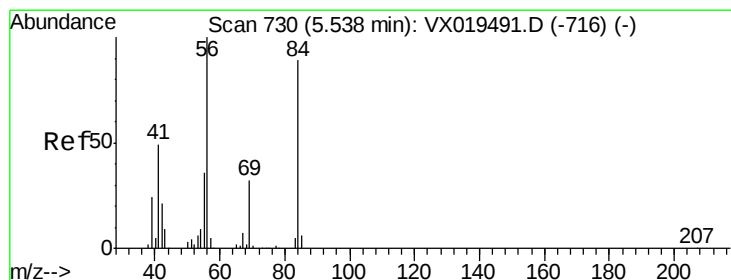
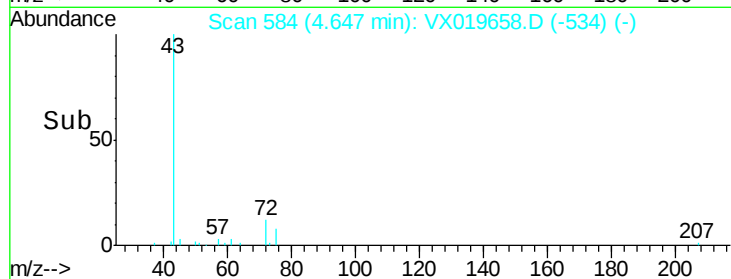
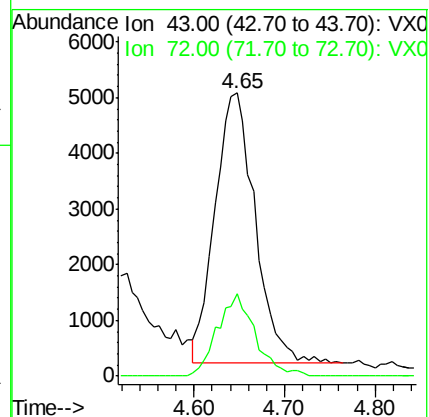
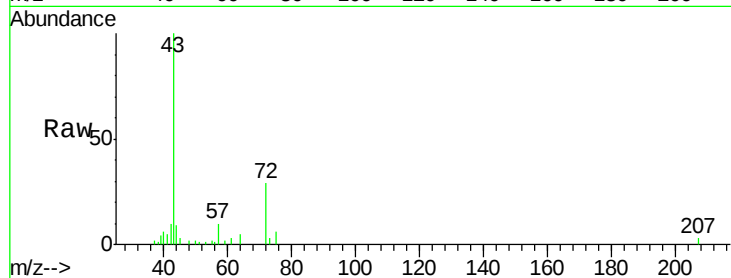
16881

Tot Ion: 43 Resp: 14985

Ion Ratio Lower Upper

43 100

72 30.3 24.0 36.0



#31

Cyclohexane

Concen: 0.545 ug/l

RT: 5.55 min Scan# 732

Delta R.T. 0.01 min

Lab File: VX019658.D

Acq: 25 Nov 2020 15:55

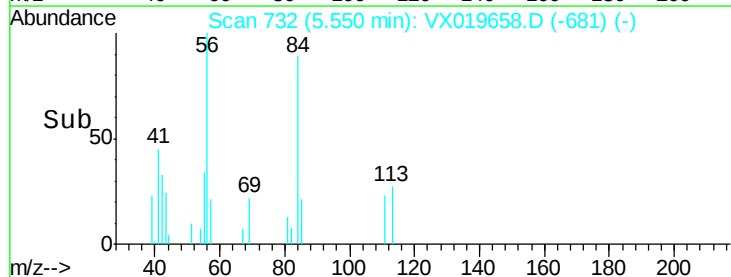
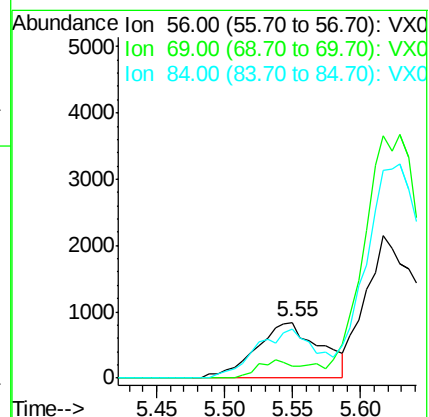
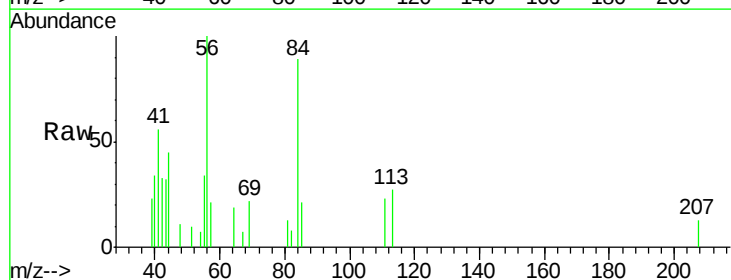
Tgt Ion: 56 Resp: 2746

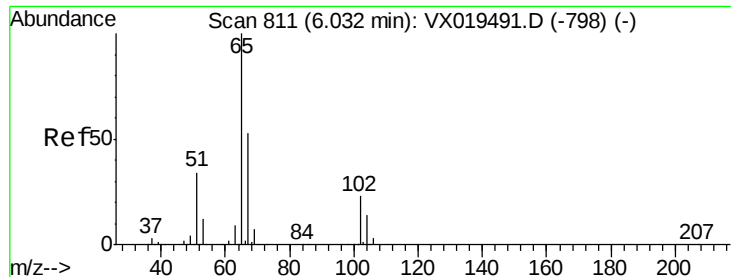
Ion Ratio Lower Upper

56 100

69 21.9 25.5 38.3#

84 89.0 71.1 106.7





#33

1,2-Dichloroethane-d4

Concen: 48.210 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.01 min

Lab File: VX019658.D

Acq: 25 Nov 2020 15:55

Instrument :

MSVOA_X

ClientSampleId :

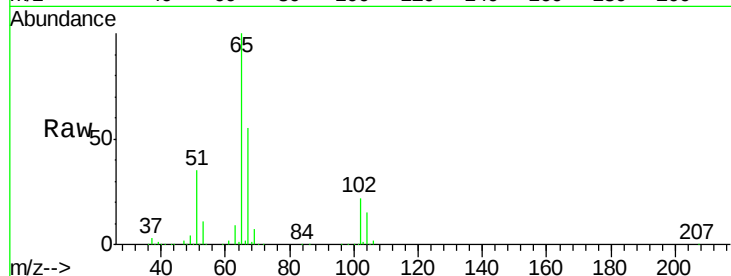
16881

Tot Ion: 65 Resp: 186664

Ion Ratio Lower Upper

65 100

67 51.7 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

80000

60000

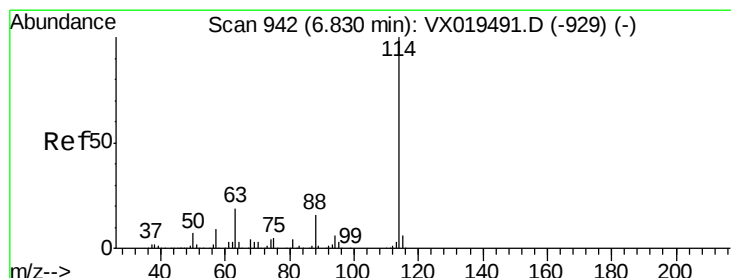
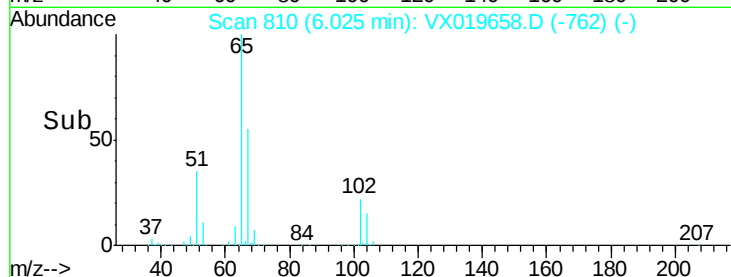
40000

20000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019658.D

Acq: 25 Nov 2020 15:55

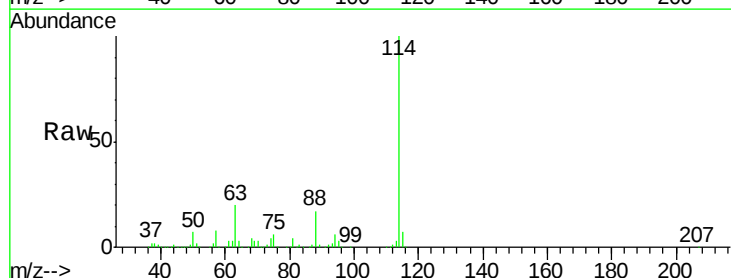
Tgt Ion: 114 Resp: 493770

Ion Ratio Lower Upper

114 100

63 20.4 0.0 38.8

88 16.9 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

250000

200000

150000

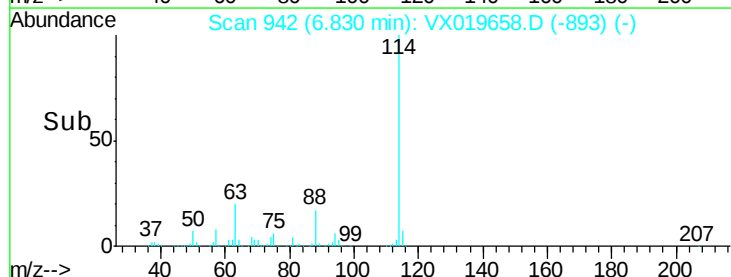
100000

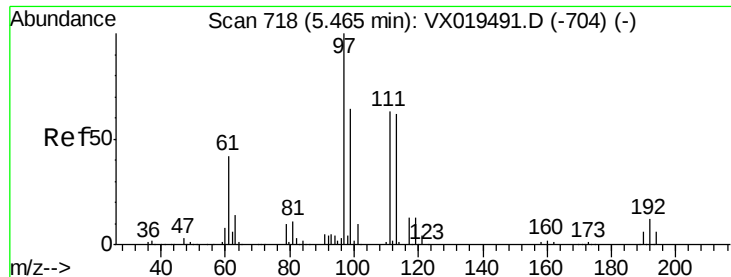
50000

0

Time-->

6.70 6.80 6.90 7.00 7.10





#35

Dibromofluoromethane

Concen: 47.126 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019658.D

Acq: 25 Nov 2020 15:55

Instrument :

MSVOA_X

ClientSampleId :

16881

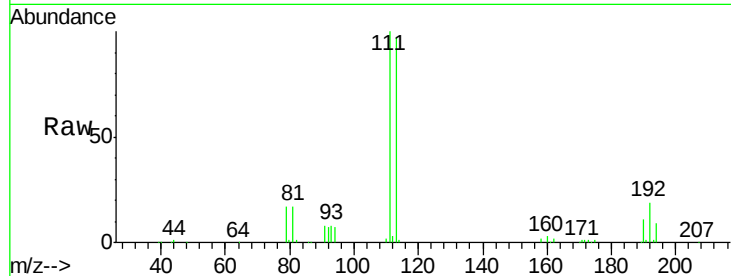
Tot Ion:113 Resp: 146063

Ion Ratio Lower Upper

113 100

111 103.4 81.5 122.3

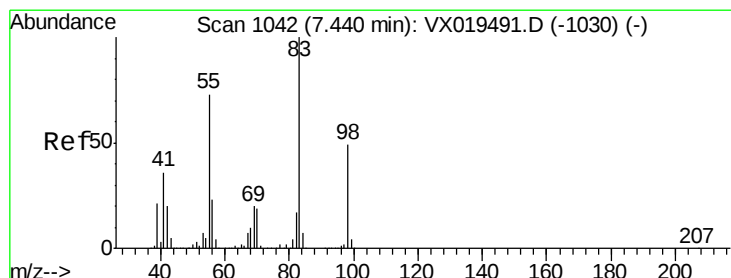
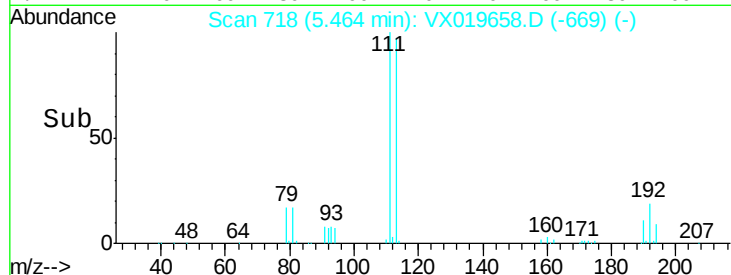
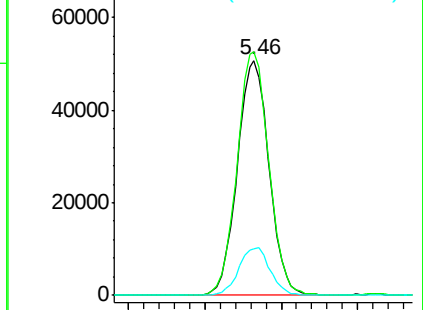
192 20.1 16.2 24.2



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



#39

Methylcyclohexane

Concen: 1.352 ug/l

RT: 7.44 min Scan# 1042

Delta R.T. -0.00 min

Lab File: VX019658.D

Acq: 25 Nov 2020 15:55

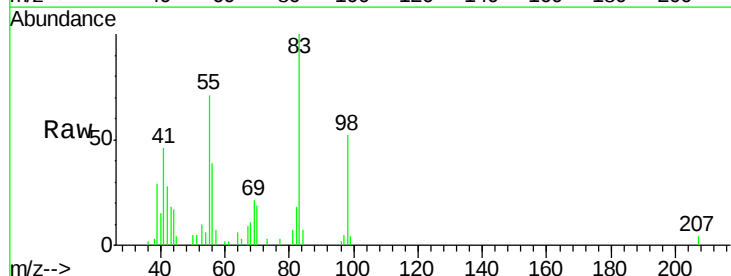
Tgt Ion: 83 Resp: 7289

Ion Ratio Lower Upper

83 100

55 67.7 58.3 87.5

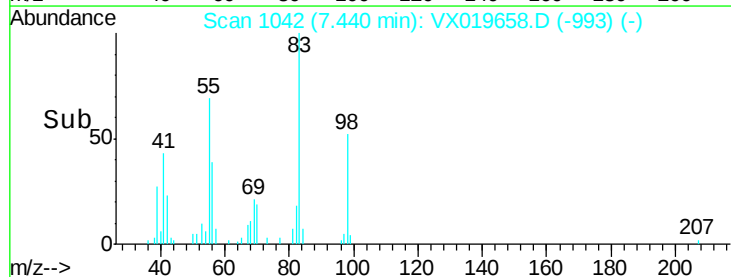
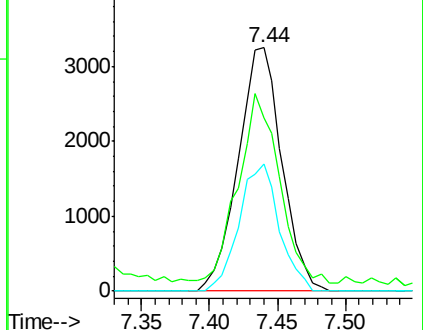
98 52.2 38.9 58.3

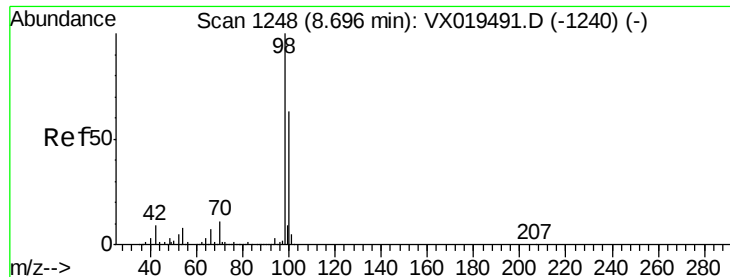


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

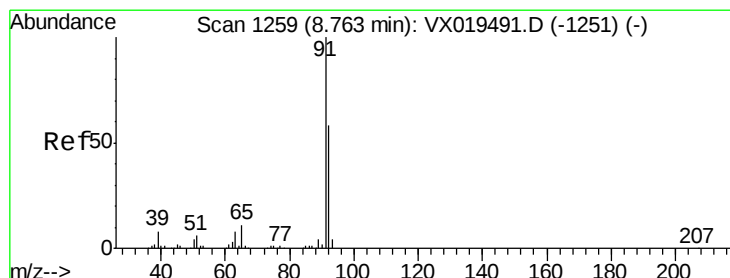
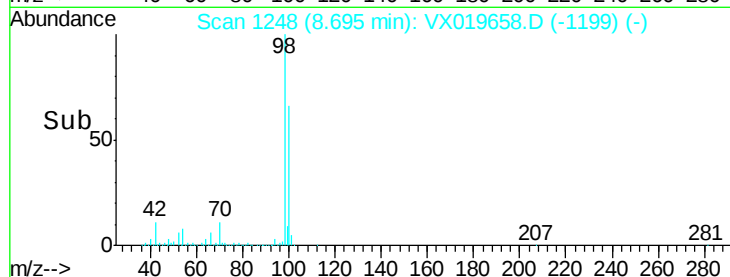
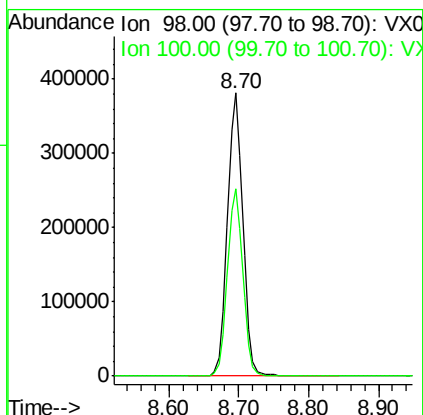
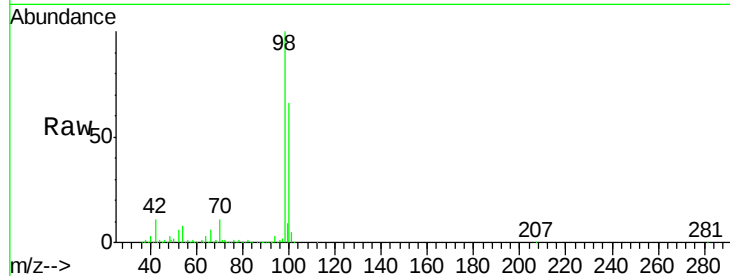




#50
Toluene-d8
Concen: 48.472 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019658.D
Acq: 25 Nov 2020 15:55

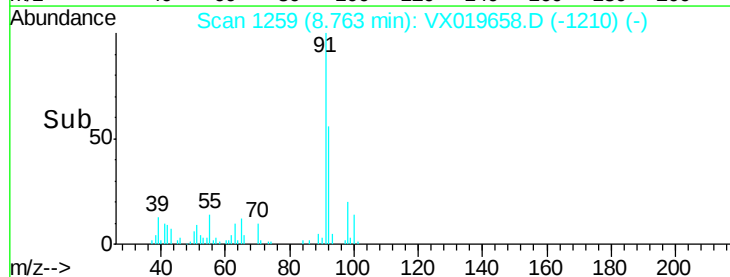
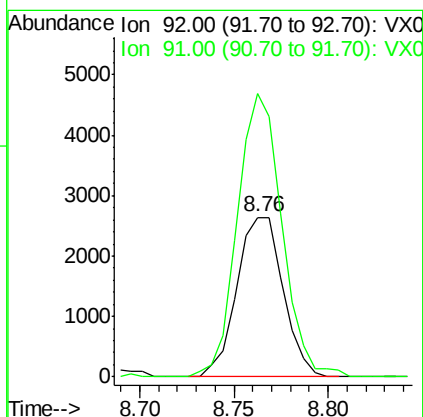
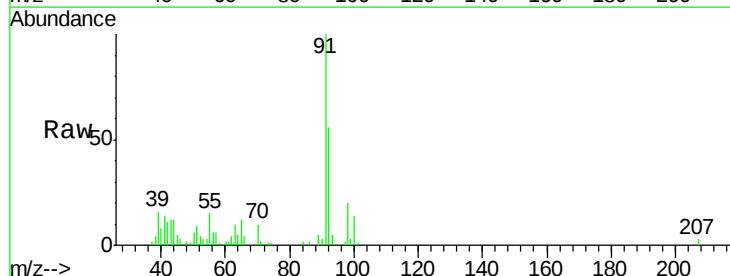
Instrument :
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16881

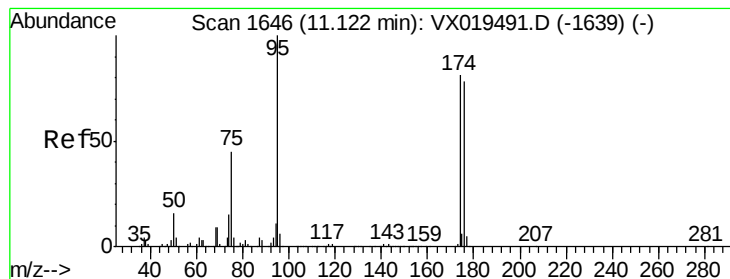
Tot Ion: 98 Resp: 583790
Ion Ratio Lower Upper
98 100
100 66.4 52.4 78.6



#52
Toluene
Concen: 0.519 ug/l
RT: 8.76 min Scan# 1259
Delta R.T. -0.00 min
Lab File: VX019658.D
Acq: 25 Nov 2020 15:55

Tgt Ion: 92 Resp: 4514
Ion Ratio Lower Upper
92 100
91 170.0 138.1 207.1





#62

4-Bromofluorobenzene

Concen: 47.791 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019658.D

Acq: 25 Nov 2020 15:55

Instrument :

MSVOA_X

ClientSampleId :

16881

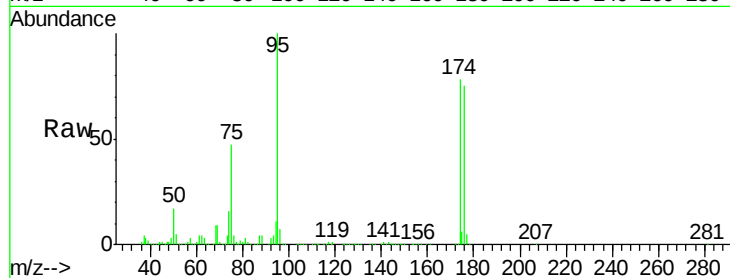
Tot Ion: 95 Resp: 207090

Ion Ratio Lower Upper

95 100

174 75.5 0.0 156.2

176 73.7 0.0 151.4



Abundance Ion 94.90 (94.60 to 95.60): VX019491.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX019491.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX019491.D (-1639) (-)

11.12

200000

150000

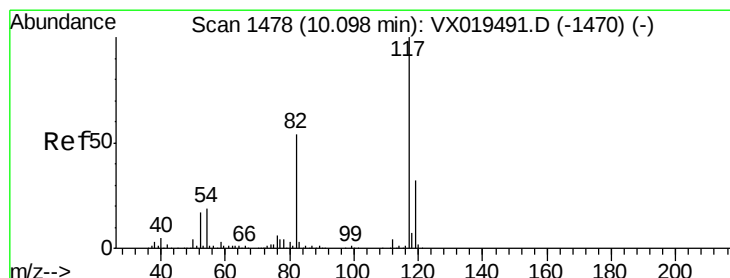
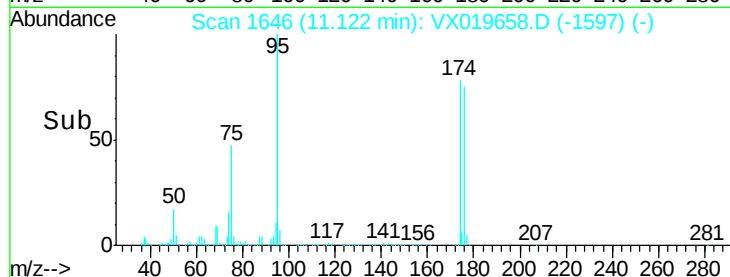
100000

50000

0

11.10 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. -0.01 min

Lab File: VX019658.D

Acq: 25 Nov 2020 15:55

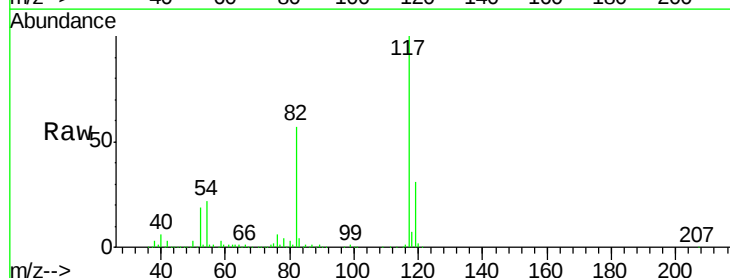
Tgt Ion: 117 Resp: 436696

Ion Ratio Lower Upper

117 100

82 57.5 43.0 64.4

119 31.0 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): VX019491.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019491.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019491.D (-1470) (-)

10.09

400000

300000

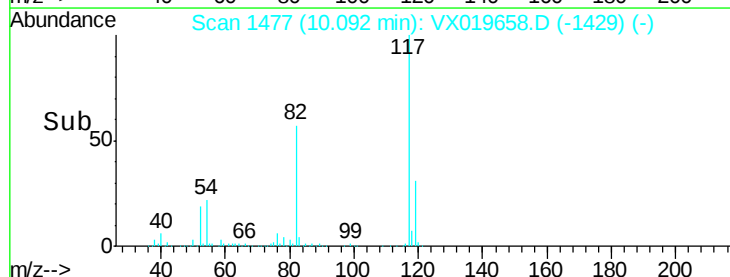
200000

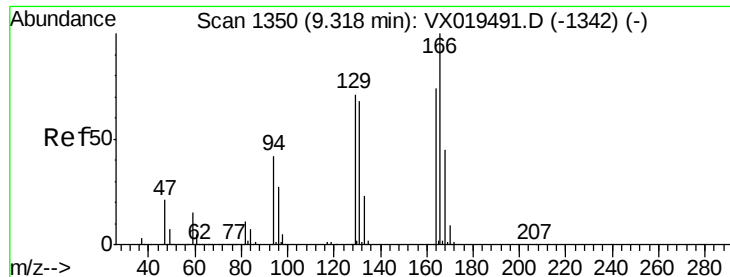
100000

0

10.00 10.10 10.20

Time-->





#64

Tetrachloroethene

Concen: 1.730 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX019658.D

Acq: 25 Nov 2020 15:55

Instrument :

MSVOA_X

ClientSampleId :

16881

Tot Ion:164 Resp: 5937

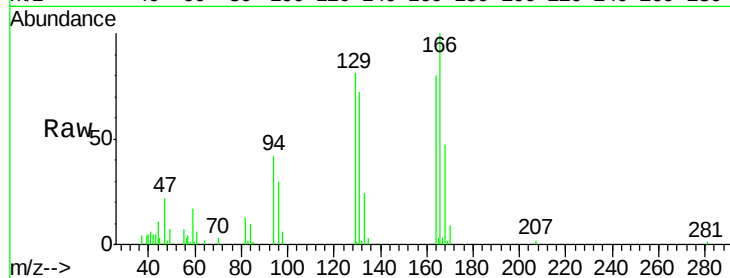
Ion Ratio Lower Upper

164 100

166 125.3 107.4 161.0

129 102.0 76.6 114.8

131 89.7 72.6 108.8

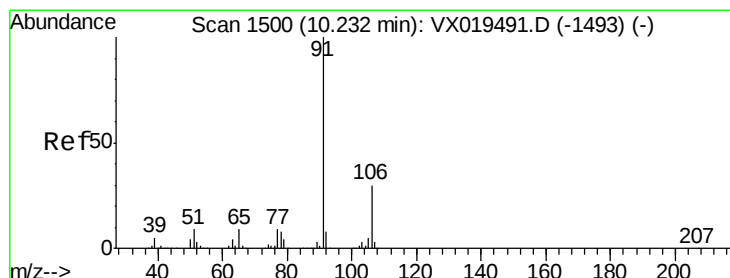
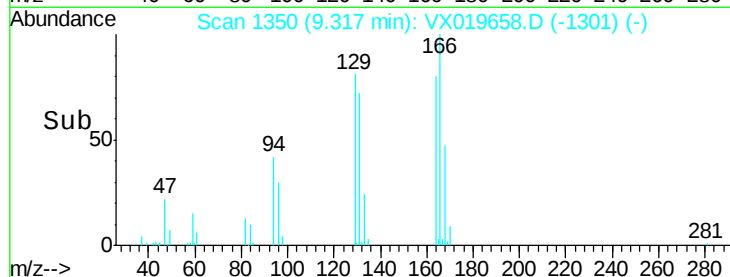
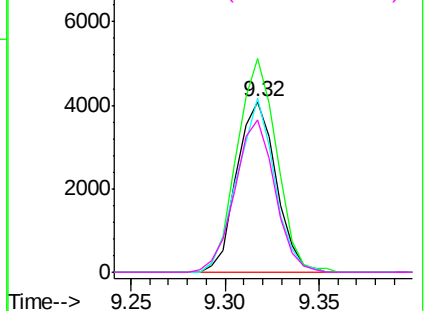


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#67

Ethyl Benzene

Concen: 0.342 ug/l

RT: 10.23 min Scan# 1500

Delta R.T. -0.00 min

Lab File: VX019658.D

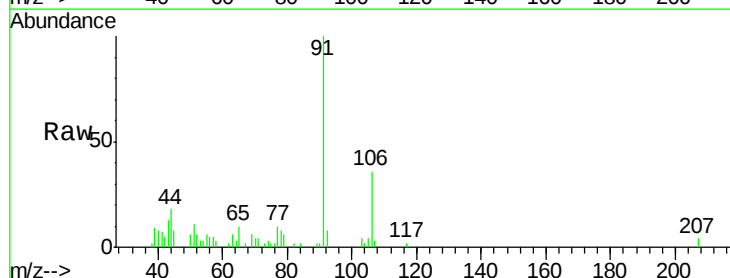
Acq: 25 Nov 2020 15:55

Tgt Ion: 91 Resp: 5373

Ion Ratio Lower Upper

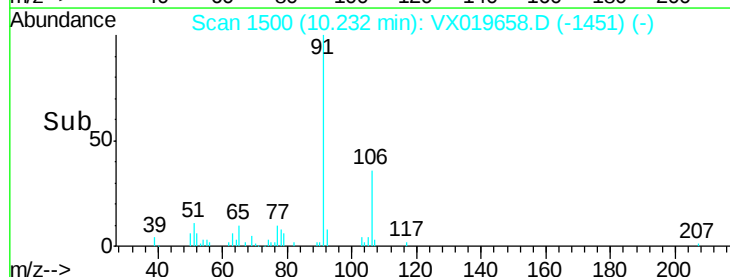
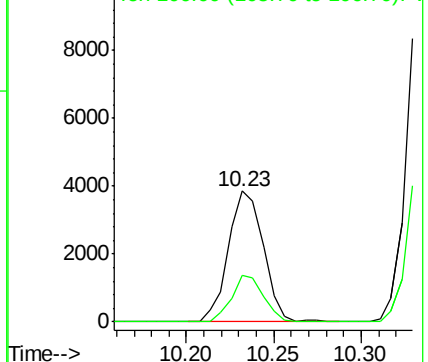
91 100

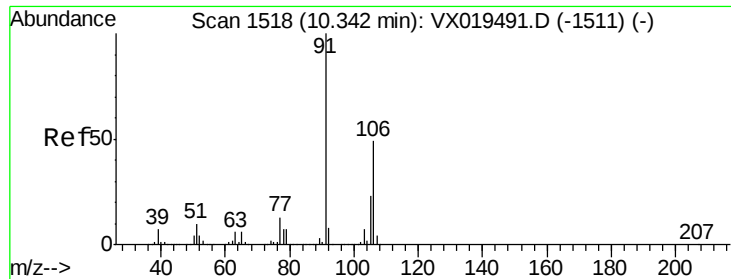
106 36.0 24.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

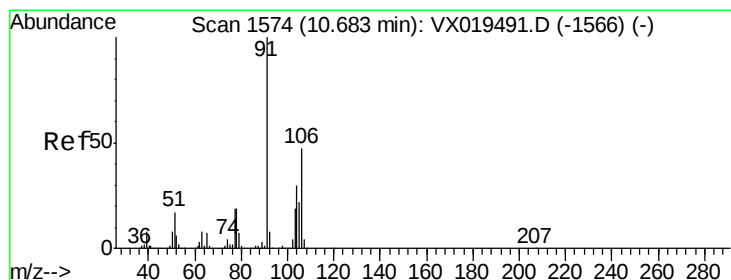
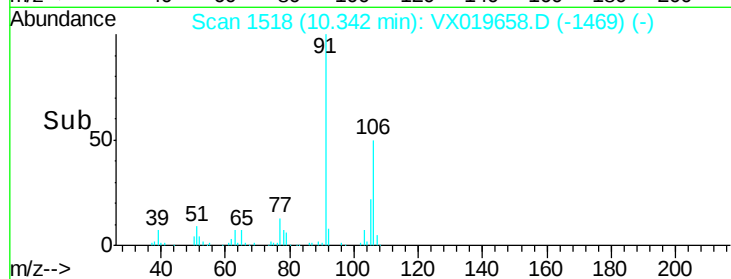
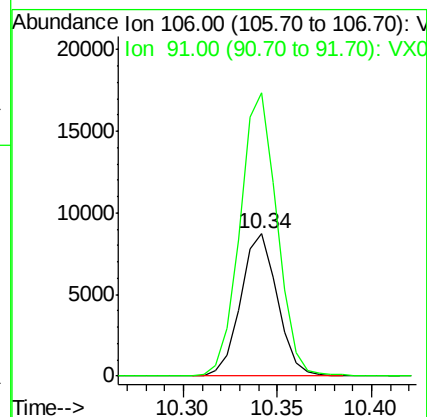
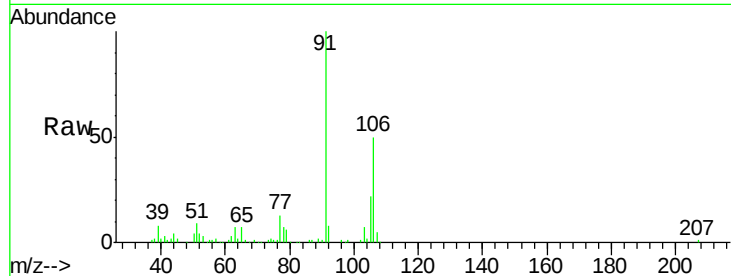




#68
m/p-Xvlenes
Concen: 2.000 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX019658.D
Acq: 25 Nov 2020 15:55

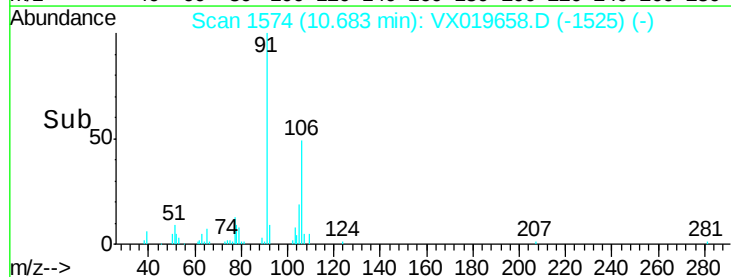
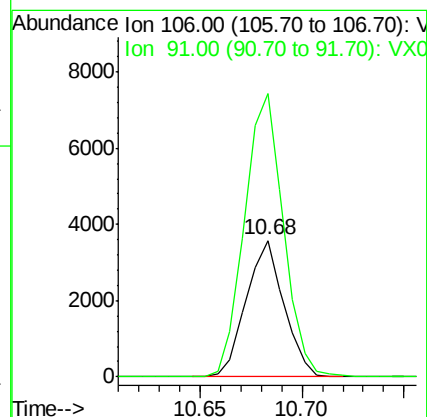
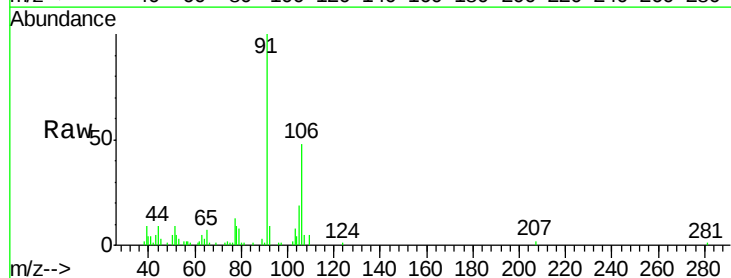
Instrument :
MSVOA_X
ClientSampleId :
16881

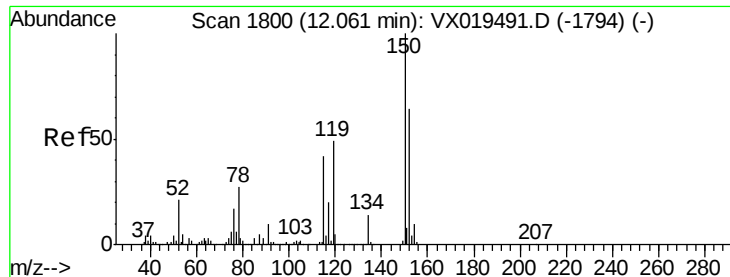
Tot Ion:106 Resp: 11718
Ion Ratio Lower Upper
106 100
91 202.2 163.3 244.9



#69
o-Xylene
Concen: 0.820 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX019658.D
Acq: 25 Nov 2020 15:55

Tgt Ion:106 Resp: 4591
Ion Ratio Lower Upper
106 100
91 213.7 108.0 324.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019658.D

Acq: 25 Nov 2020 15:55

Instrument :

MSVOA_X

ClientSampleId :

16881

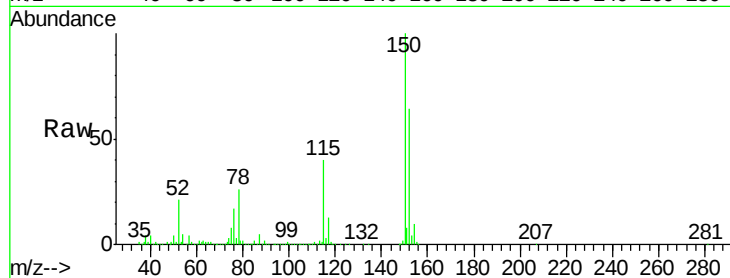
Tot Ion:152 Resp: 199457

Ion Ratio Lower Upper

152 100

115 60.9 41.8 125.4

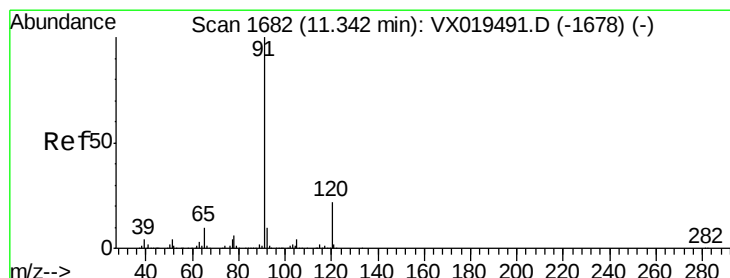
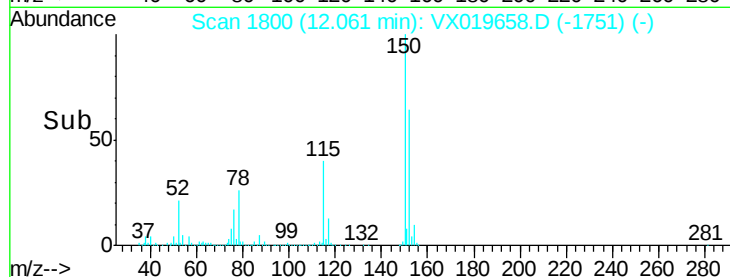
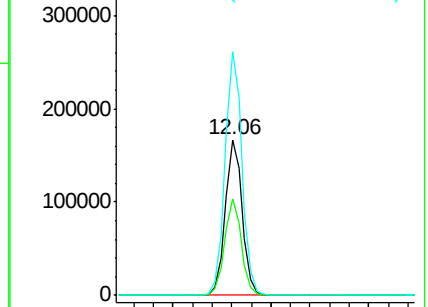
150 156.7 0.0 348.2



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



#78

n-propylbenzene

Concen: 0.395 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VX019658.D

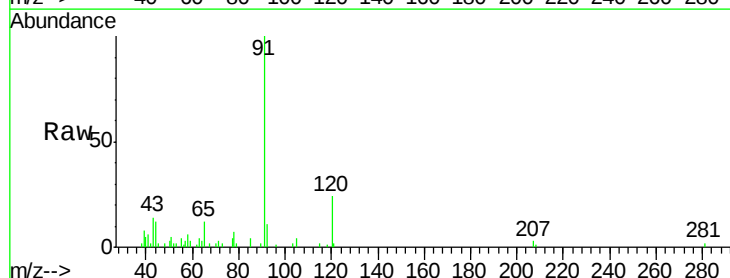
Acq: 25 Nov 2020 15:55

Tgt Ion: 91 Resp: 6259

Ion Ratio Lower Upper

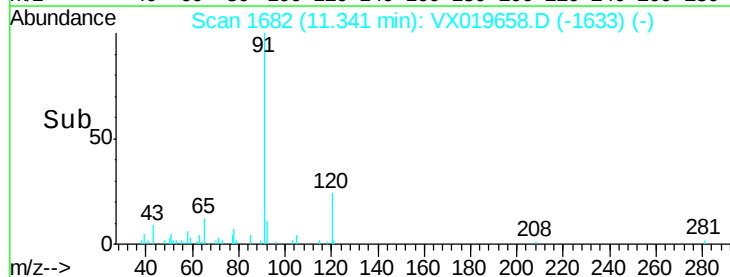
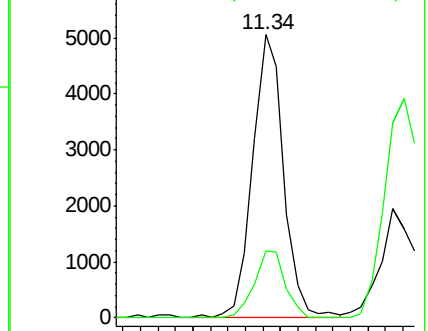
91 100

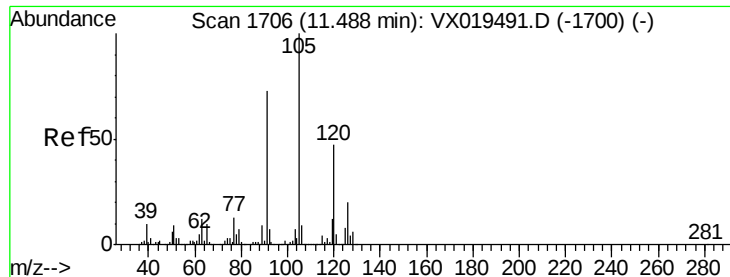
120 23.3 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

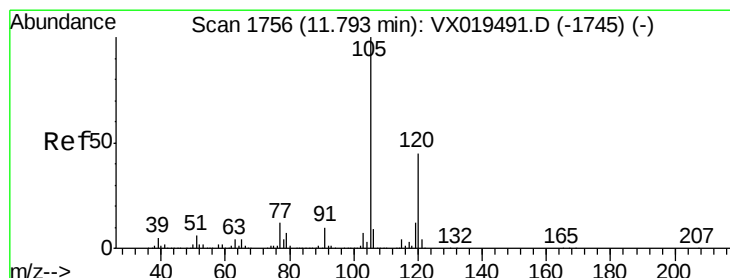
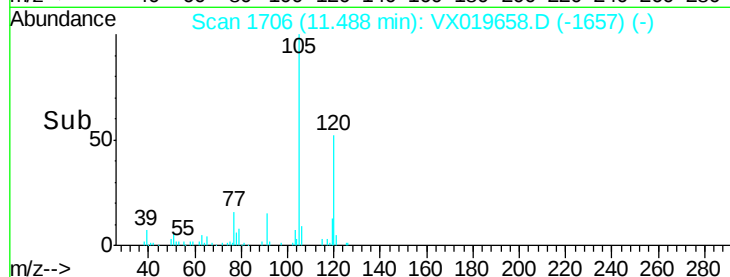
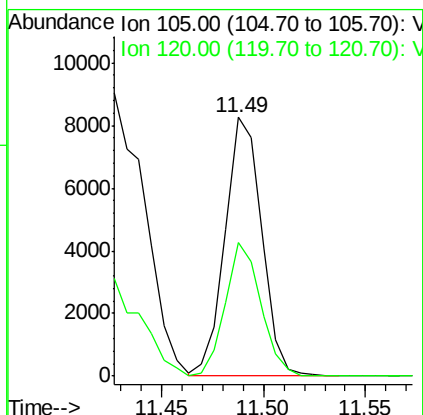
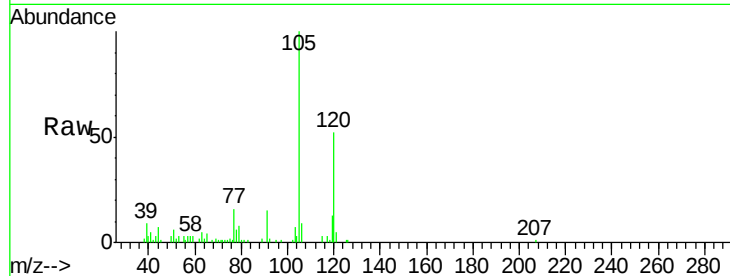




#80
 1,3,5-Trimethylbenzene
 Concen: 0.887 ug/l
 RT: 11.49 min Scan# 1706
 Delta R.T. -0.00 min
 Lab File: VX019658.D
 Acq: 25 Nov 2020 15:55

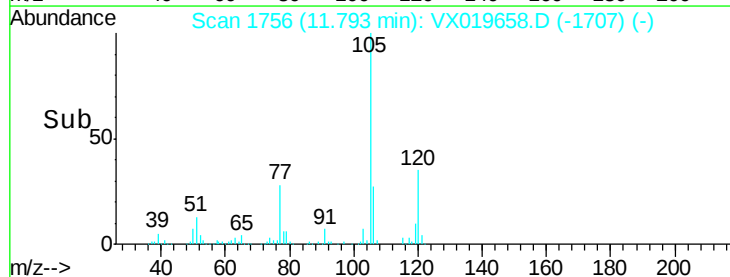
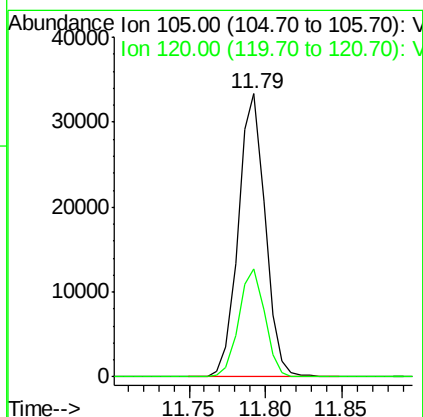
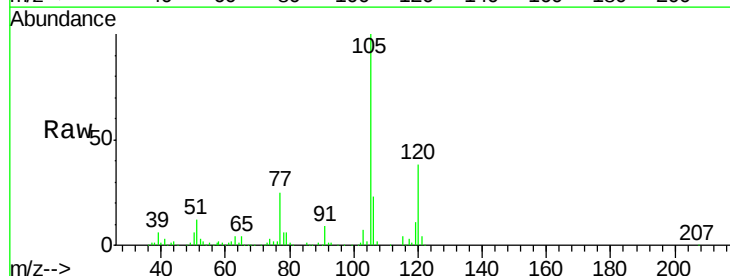
Instrument :
 MSVOA_X
 ClientSampleId :
 16881

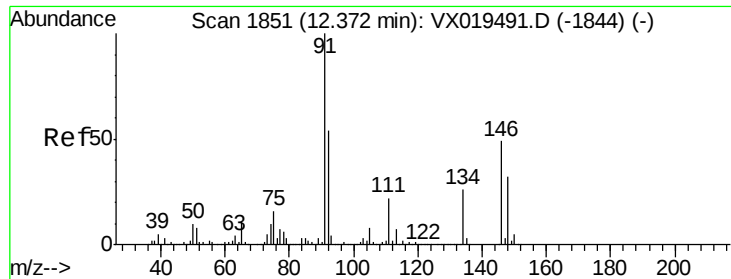
Tot Ion:105 Resp: 10269
 Ion Ratio Lower Upper
 105 100
 120 49.9 24.1 72.3



#84
 1,2,4-Trimethylbenzene
 Concen: 3.467 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VX019658.D
 Acq: 25 Nov 2020 15:55

Tgt Ion:105 Resp: 40606
 Ion Ratio Lower Upper
 105 100
 120 36.9 22.2 66.6

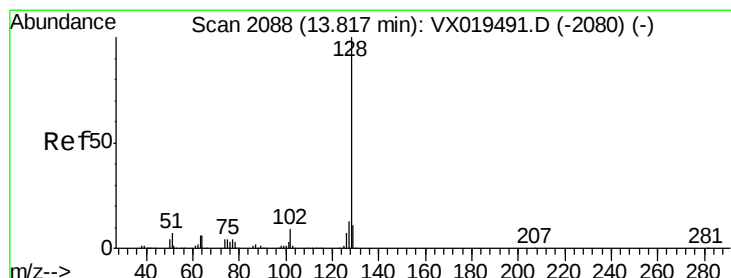
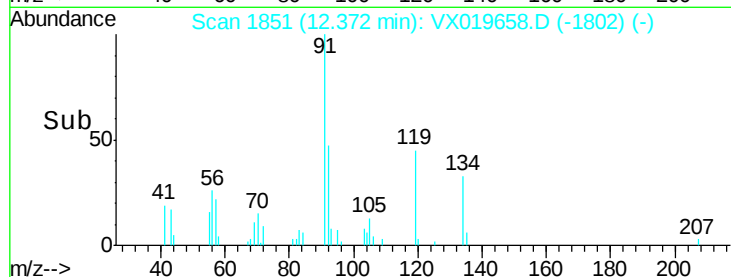
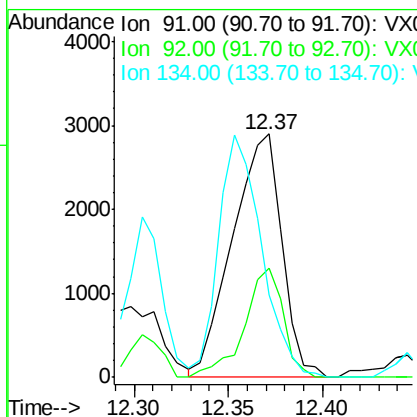
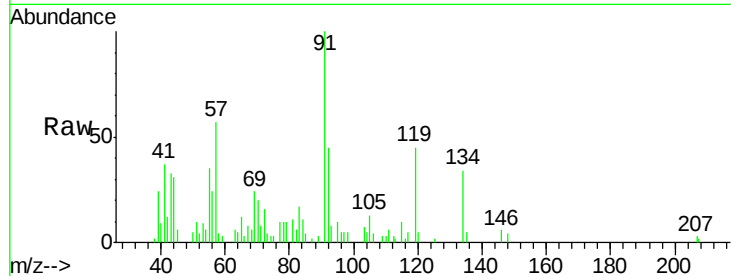




#89
n-Butylbenzene
Concen: 0.483 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. -0.00 min
Lab File: VX019658.D
Acq: 25 Nov 2020 15:55

Instrument :
MSVOA_X
ClientSampleId :
16881

Tot Ion: 91 Resp: 5278
Ion Ratio Lower Upper
91 100
92 35.1 26.9 80.6
134 86.4 12.9 38.6#



#95
Naphthalene
Concen: 5.466 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019658.D
Acq: 25 Nov 2020 15:55

Tgt Ion: 128 Resp: 50578
Ion Ratio Lower Upper
128 100
127 13.1 10.3 15.5
129 13.5 8.7 13.1#

