

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063669.D
 Acq On : 25 Sep 2020 8:37
 Operator : JC/MD
 Sample : L4098-19 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DRIP-LIQUID

Quant Time: Sep 25 09:01:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	191969	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	352805	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	360971	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	163278	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	163559	50.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.10%	
35) Dibromofluoromethane	7.55	113	118127	48.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.74%	
50) Toluene-d8	10.06	98	456157	49.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.34%	
62) 4-Bromofluorobenzene	12.38	95	184322	54.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.50%	

Target Compounds

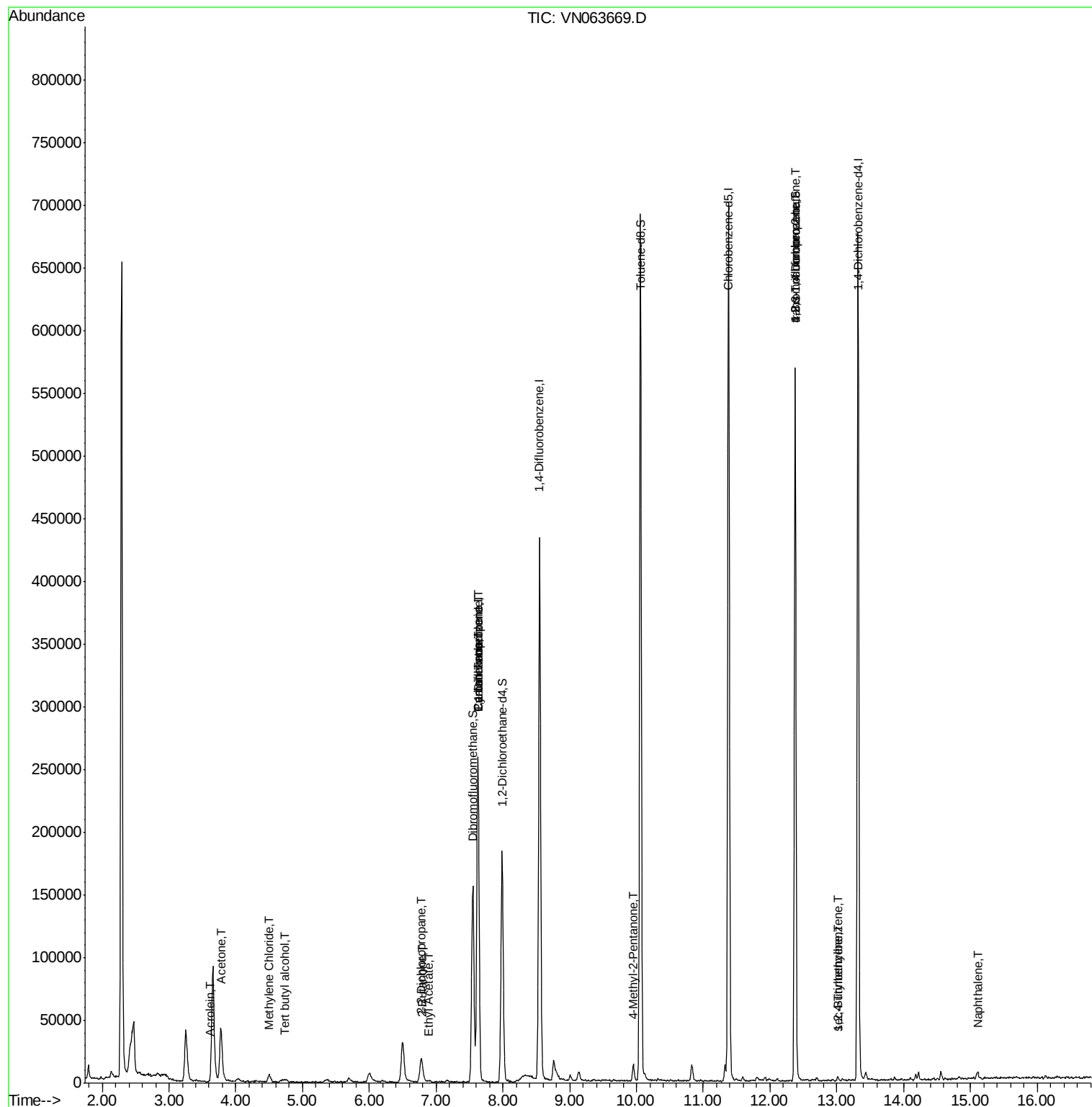
						Qvalue
11) Tert butyl alcohol	4.73	59	721	1.593	ug/l #	72
13) Acrolein	3.60	56	132	0.787	ug/l #	13
16) Acetone	3.78	43	73611	70.091	ug/l	99
20) Methylene Chloride	4.49	84	3330	1.251	ug/l	96
25) 2-Butanone	6.80	43	4925	3.049	ug/l #	87
26) 2,2-Dichloropropane	6.78	77	1268	0.302	ug/l #	55
31) Cyclohexane	7.62	56	5702	1.263	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	18574	4.942	ug/l #	49
37) Ethyl Acetate	6.90	43	1187	0.322	ug/l #	79
38) Carbon Tetrachloride	7.63	117	20715	5.399	ug/l #	19
51) 4-Methyl-2-Pentanone	9.96	43	9609	2.602	ug/l	95
76) 1,2,3-Trichloropropane	12.38	75	105310	26.058	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	105310	71.441	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.01	105	2433	0.221	ug/l	84
85) sec-Butylbenzene	13.01	105	2433	0.202	ug/l #	59
95) Naphthalene	15.11	128	5457	0.523	ug/l #	78

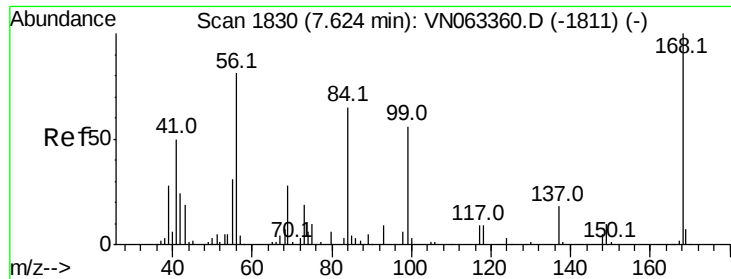
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063669.D

Acq: 25 Sep 2020 8:37

Instrument :

MSVOA_N

ClientSampleId :

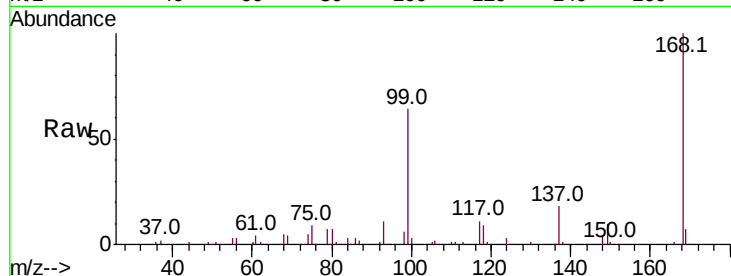
DRIP-LIQUID

Tot Ion:168 Resp: 191969

Ion Ratio Lower Upper

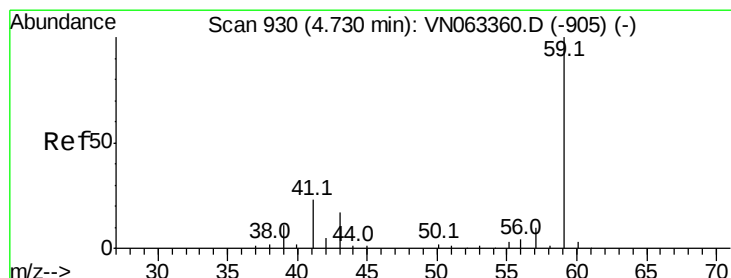
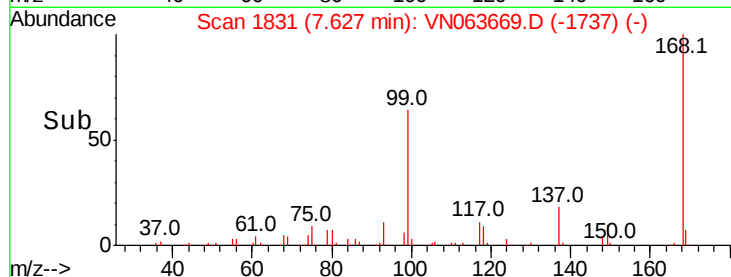
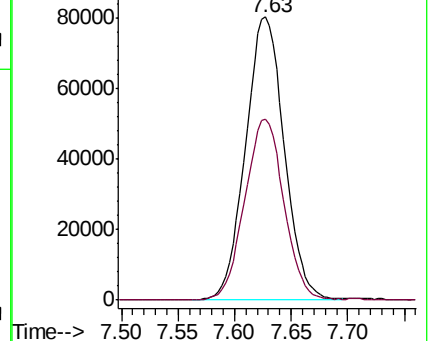
168 100

99 64.1 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 1.593 ug/l

RT: 4.73 min Scan# 930

Delta R.T. -0.00 min

Lab File: VN063669.D

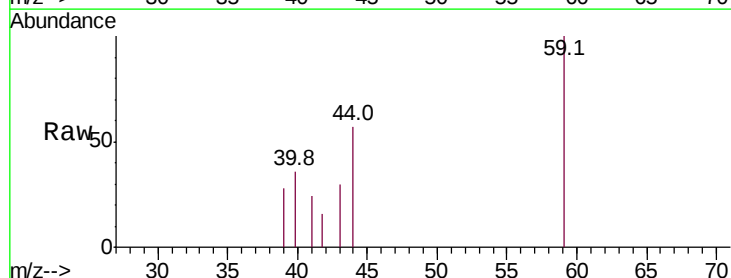
Acq: 25 Sep 2020 8:37

Tgt Ion: 59 Resp: 721

Ion Ratio Lower Upper

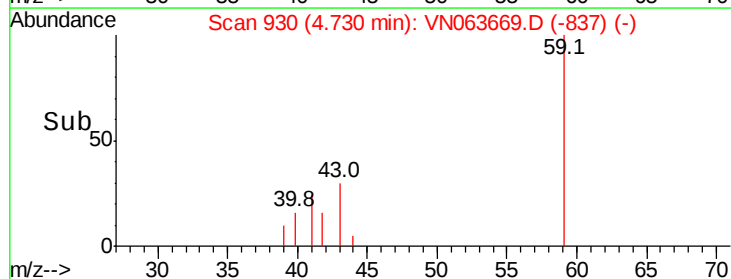
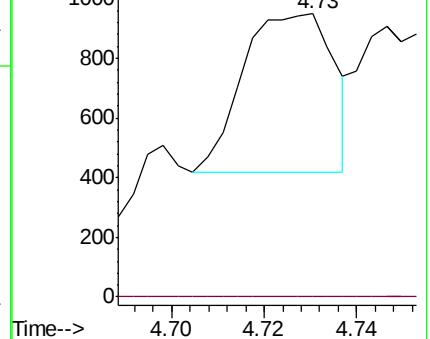
59 100

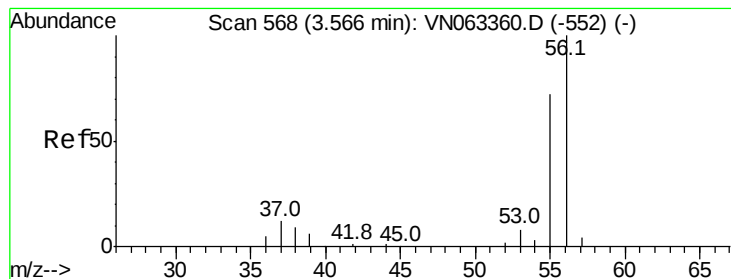
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 0.787 ug/l

RT: 3.60 min Scan# 578

Delta R.T. 0.03 min

Lab File: VN063669.D

Acq: 25 Sep 2020 8:37

Instrument :

MSVOA_N

ClientSampled :

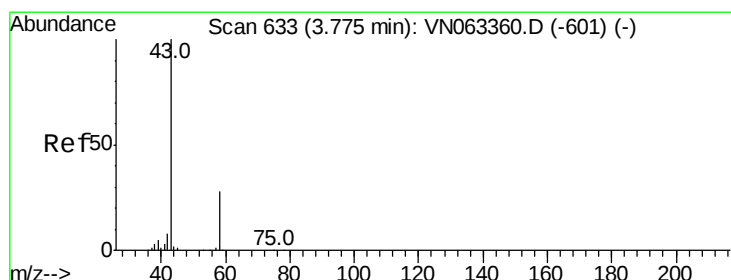
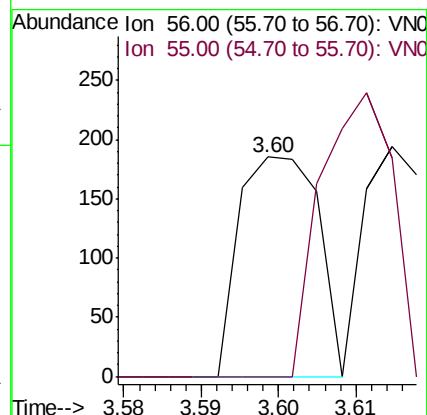
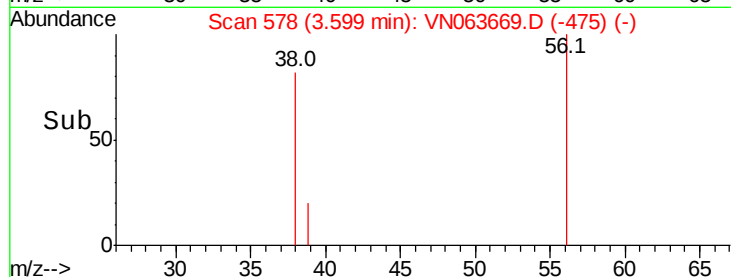
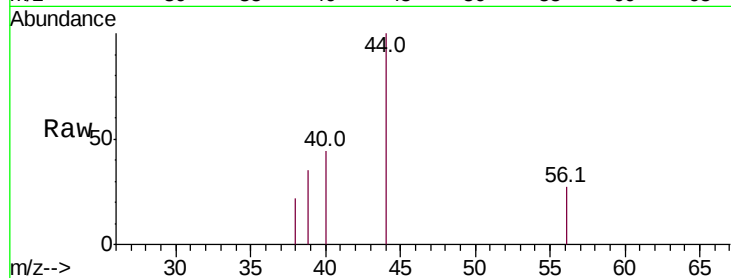
DRIP-LIQUID

Tot Ion: 56 Resp: 132

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#



#16

Acetone

Concen: 70.091 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063669.D

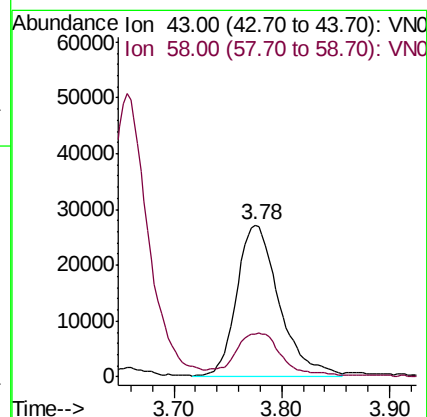
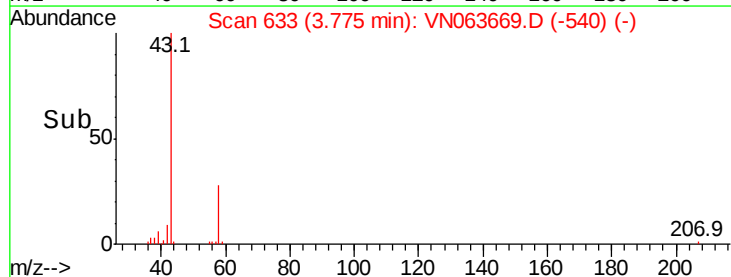
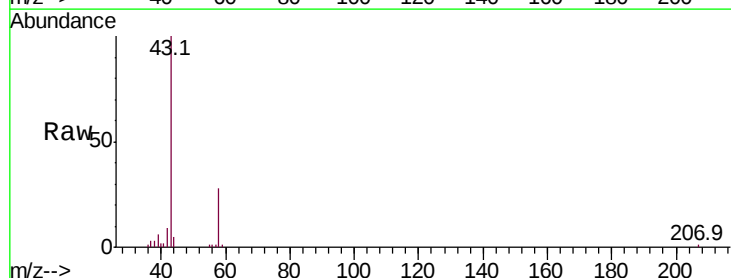
Acq: 25 Sep 2020 8:37

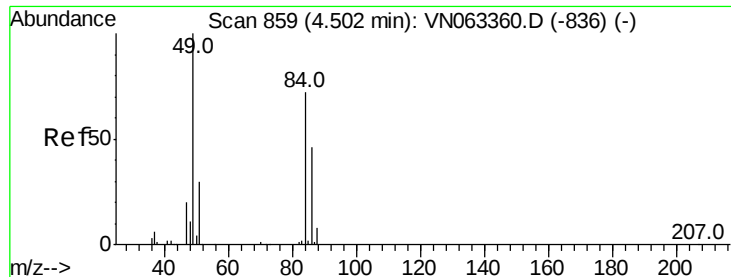
Tgt Ion: 43 Resp: 73611

Ion Ratio Lower Upper

43 100

58 27.3 22.3 33.5

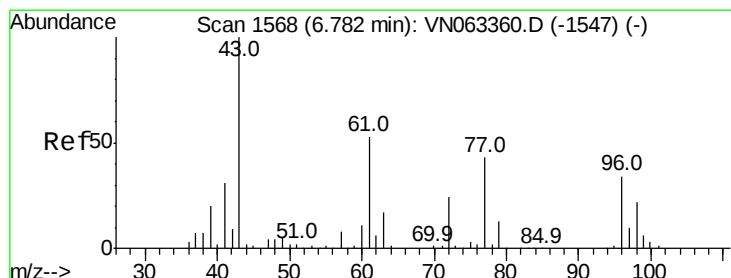
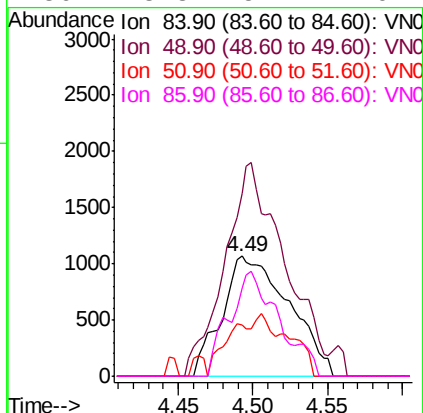
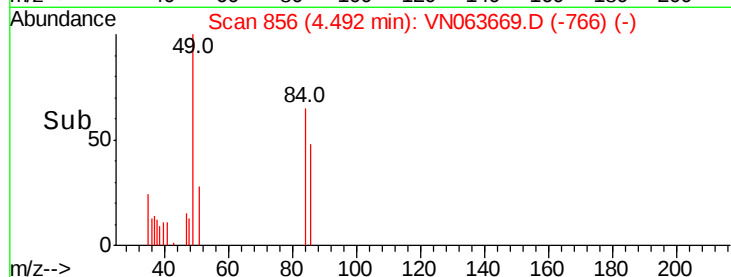
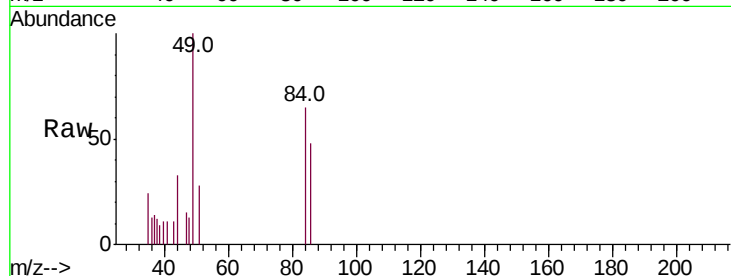




#20
Methvlene Chloride
Concen: 1.251 ug/l
RT: 4.49 min Scan# 856
Delta R.T. -0.01 min
Lab File: VN063669.D
Acq: 25 Sep 2020 8:37

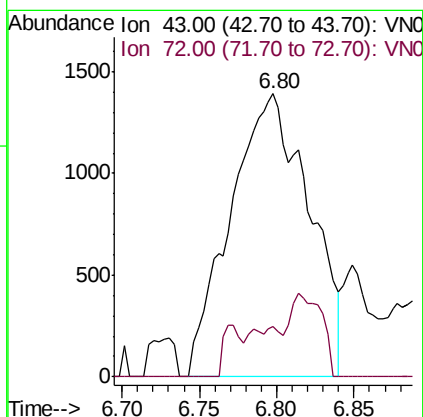
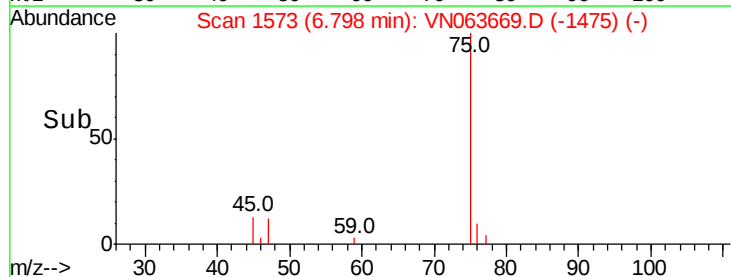
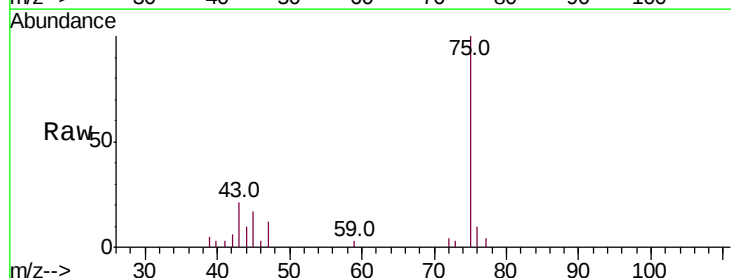
Instrument :
MSVOA_N
ClientSampled :
DRIP-LIQUID

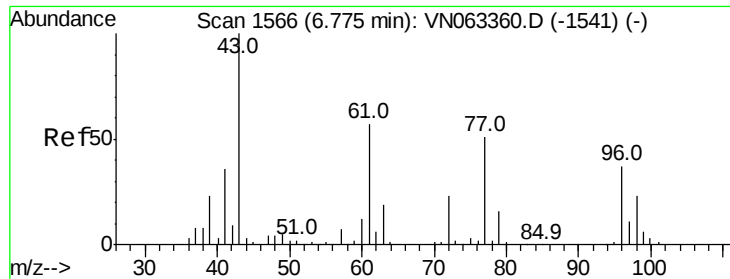
Tot Ion: 84 Resp: 3330
Ion Ratio Lower Upper
84 100
49 137.7 110.7 166.1
51 43.3 32.9 49.3
86 73.3 51.1 76.7



#25
2-Butanone
Concen: 3.049 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN063669.D
Acq: 25 Sep 2020 8:37

Tgt Ion: 43 Resp: 4925
Ion Ratio Lower Upper
43 100
72 17.7 19.2 28.8#





#26

2,2-Dichloropropane

Concen: 0.302 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN063669.D

Acq: 25 Sep 2020 8:37

Instrument :

MSVOA_N

ClientSampleId :

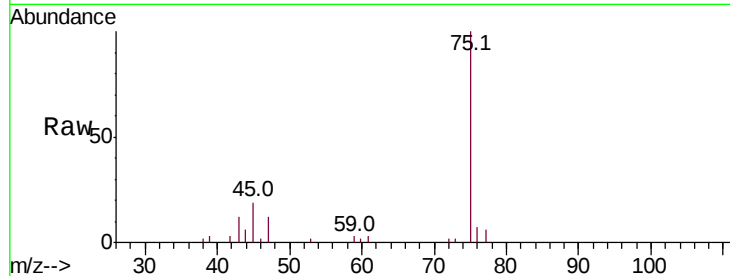
DRIP-LIQUID

Tot Ion: 77 Resp: 1268

Ion Ratio Lower Upper

77 100

97 0.0 10.5 31.6#



Abundance Ion 76.90 (76.60 to 77.60): VN063360.D (-1541) (-)

Ion 96.90 (96.60 to 97.60): VN063360.D (-1541) (-)

6.78

600

400

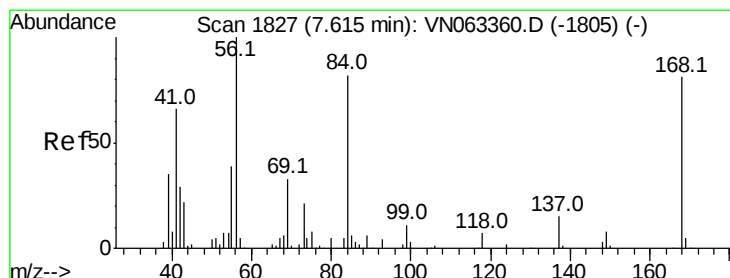
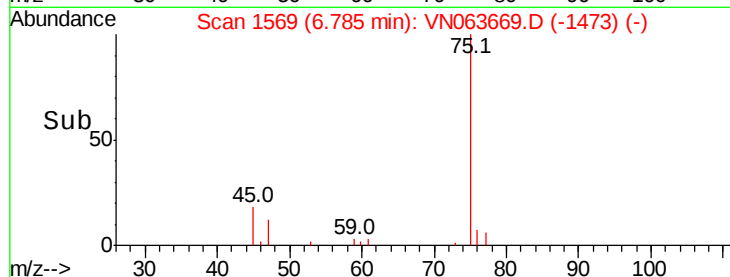
200

0

6.75

6.80

Time-->



#31

Cyclohexane

Concen: 1.263 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063669.D

Acq: 25 Sep 2020 8:37

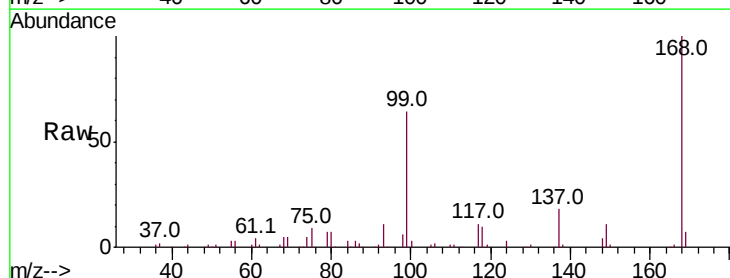
Tgt Ion: 56 Resp: 5702

Ion Ratio Lower Upper

56 100

69 167.7 26.1 39.1#

84 120.8 65.4 98.2#



Abundance Ion 56.00 (55.70 to 56.70): VN063360.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN063360.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN063360.D (-1805) (-)

5000

4000

3000

2000

1000

0

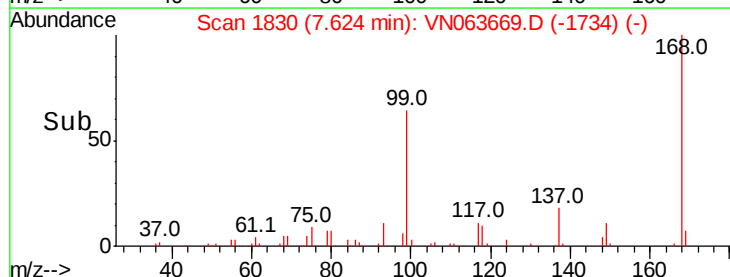
7.55

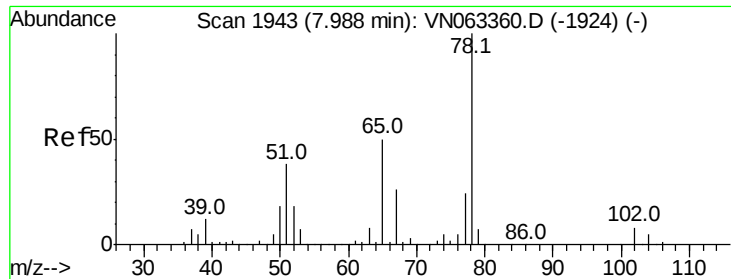
7.60

7.65

7.70

Time-->

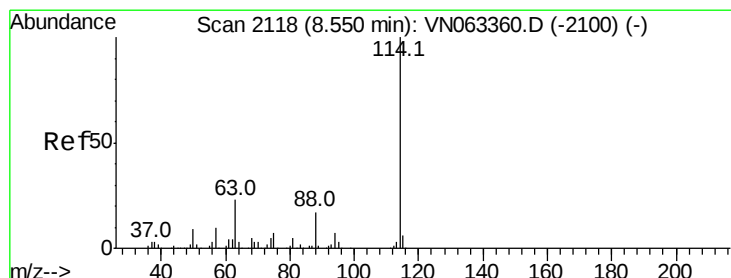
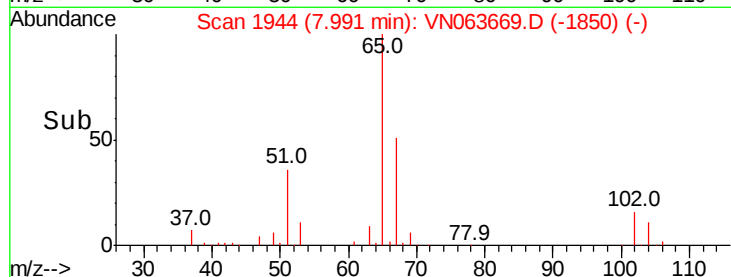
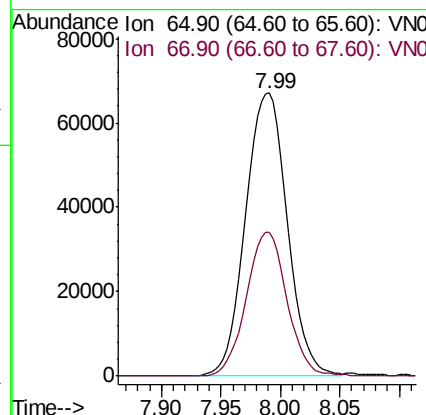
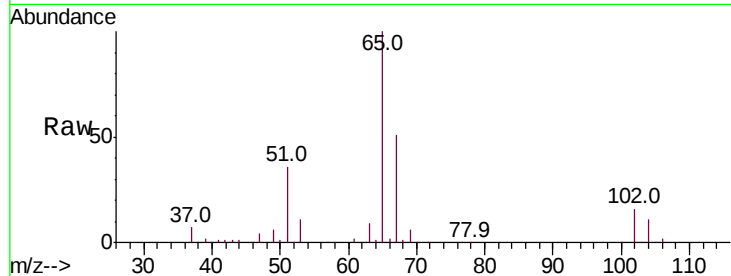




#33
 1,2-Dichloroethane-d4
 Concen: 50.051 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063669.D
 Acq: 25 Sep 2020 8:37

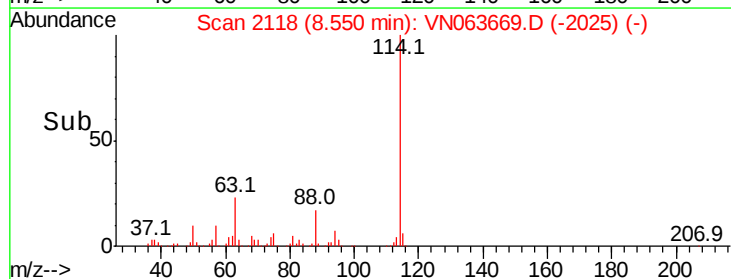
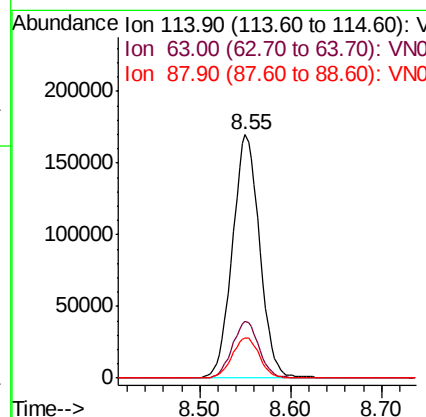
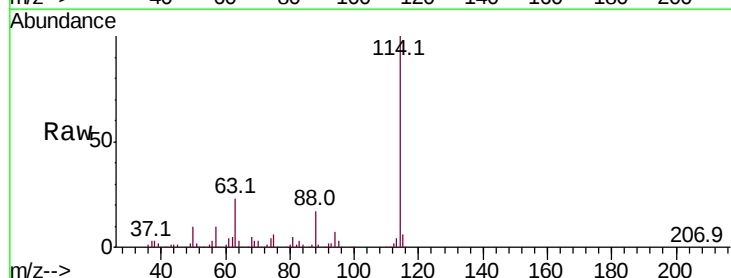
Instrument :
 MSVOA_N
 ClientSampleId :
 DRIP-LIQUID

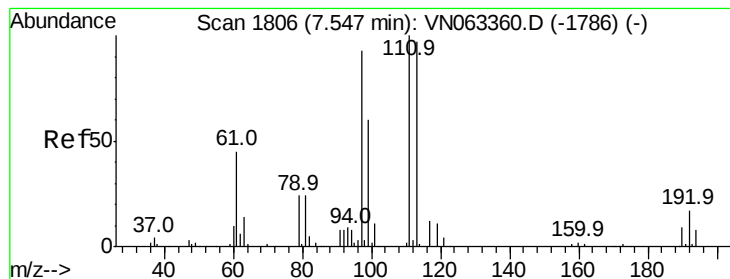
Tot Ion: 65 Resp: 163559
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063669.D
 Acq: 25 Sep 2020 8:37

Tgt Ion: 114 Resp: 352805
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 46.4
 88 16.7 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.365 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063669.D

Acq: 25 Sep 2020 8:37

Instrument :

MSVOA_N

ClientSampleId :

DRIP-LIQUID

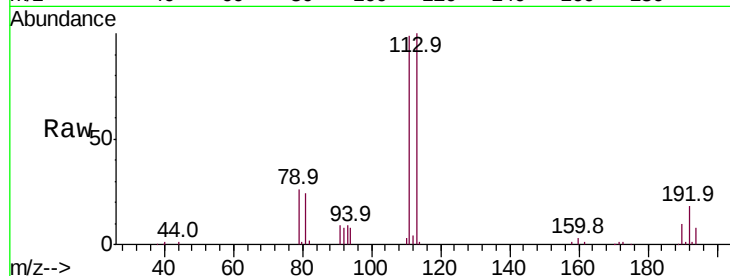
Tot Ion:113 Resp: 118127

Ion Ratio Lower Upper

113 100

111 102.0 82.9 124.3

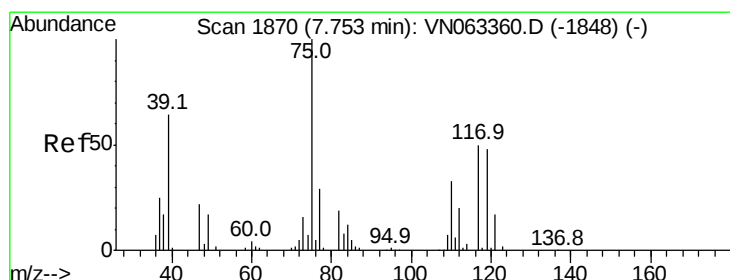
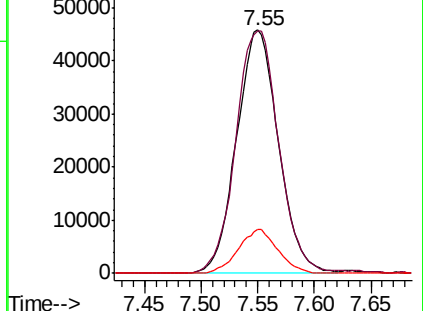
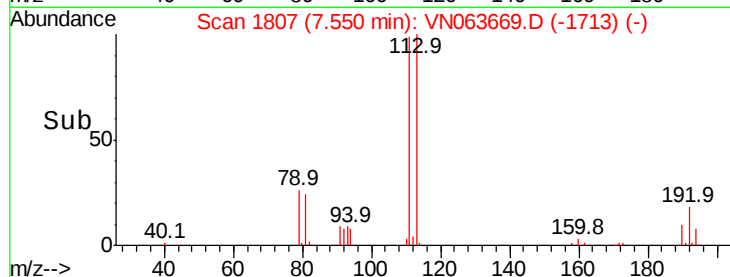
192 17.0 13.9 20.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.942 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.12 min

Lab File: VN063669.D

Acq: 25 Sep 2020 8:37

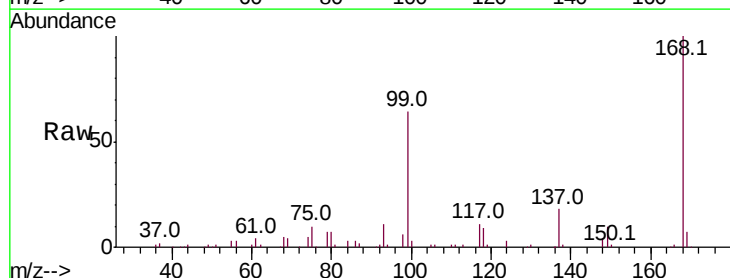
Tgt Ion: 75 Resp: 18574

Ion Ratio Lower Upper

75 100

110 6.9 16.5 49.5#

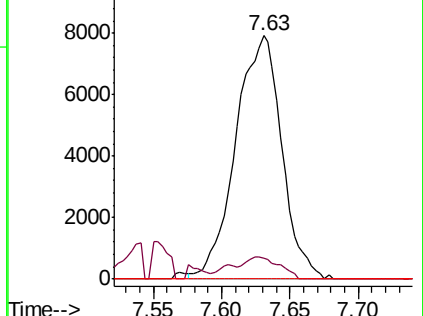
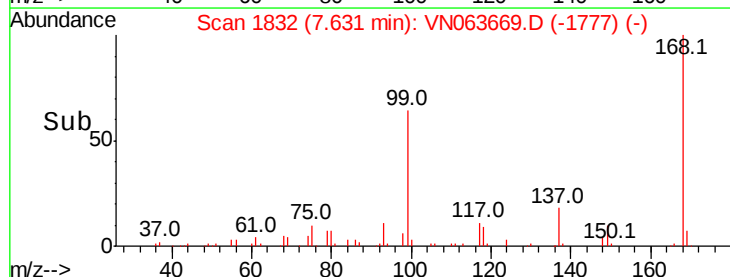
77 0.0 24.6 36.8#

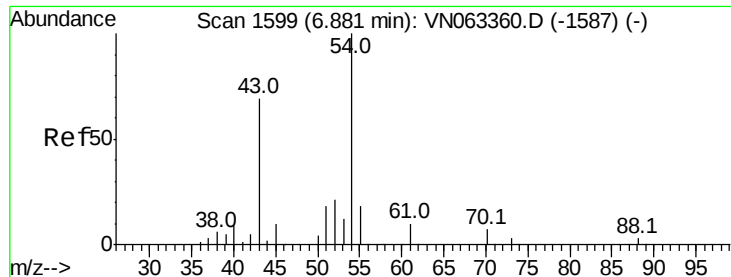


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

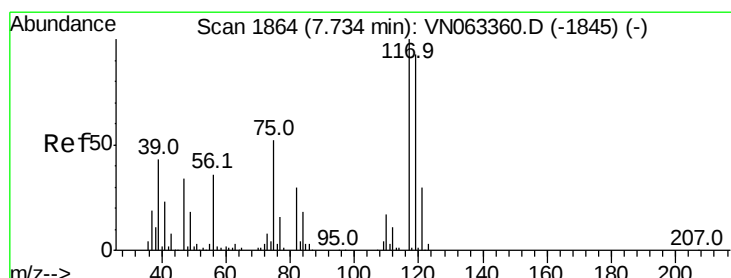
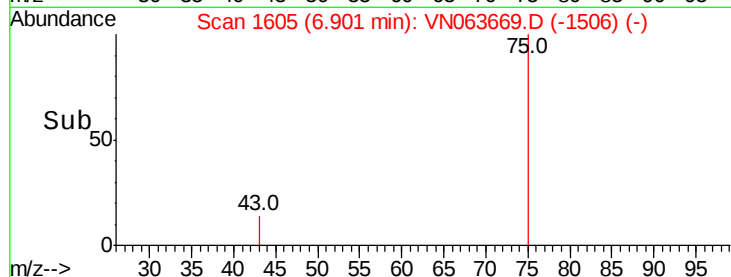
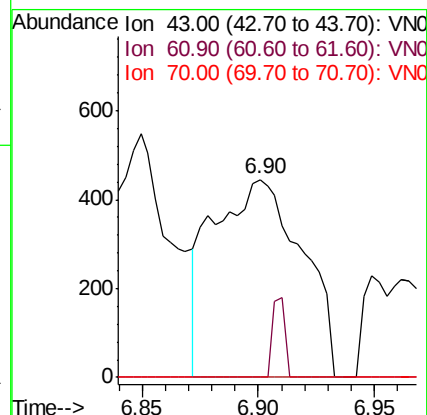
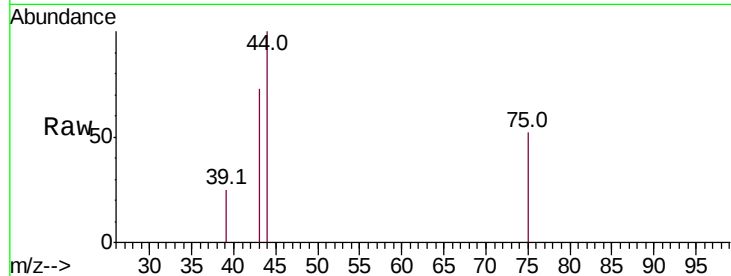




#37
Ethyl Acetate
Concen: 0.322 ug/l
RT: 6.90 min Scan# 1605
Delta R.T. 0.02 min
Lab File: VN063669.D
Acq: 25 Sep 2020 8:37

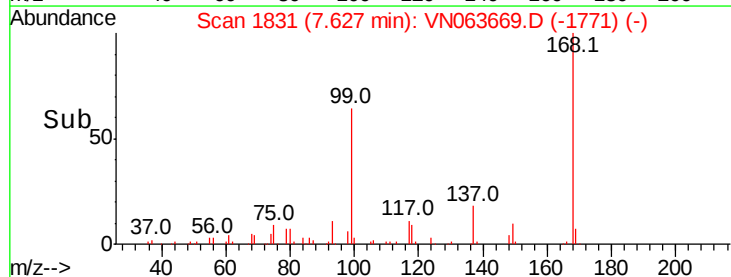
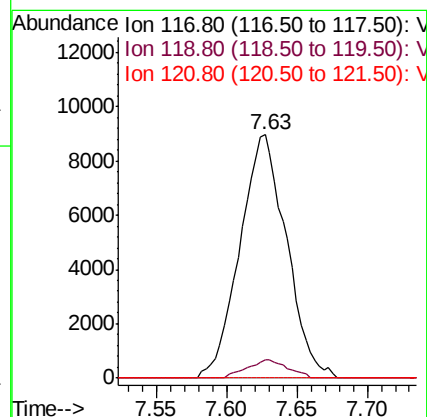
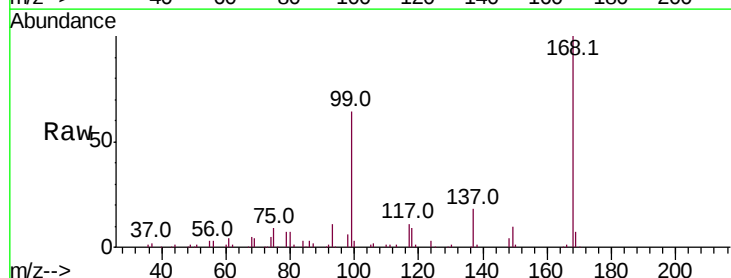
Instrument :
MSVOA_N
ClientSampleId :
DRIP-LIQUID

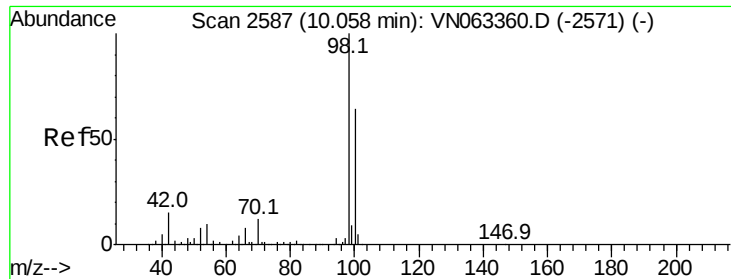
Tot Ion: 43 Resp: 1187
Ion Ratio Lower Upper
43 100
61 5.7 10.6 15.8#
70 0.0 7.2 10.8#



#38
Carbon Tetrachloride
Concen: 5.399 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063669.D
Acq: 25 Sep 2020 8:37

Tgt Ion: 117 Resp: 20715
Ion Ratio Lower Upper
117 100
119 7.7 74.5 111.7#
121 0.0 24.1 36.1#





#50

Toluene-d8

Concen: 49.669 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063669.D

Acq: 25 Sep 2020 8:37

Instrument :

MSVOA_N

ClientSampleId :

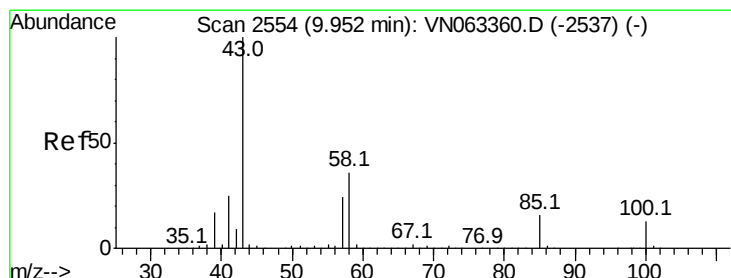
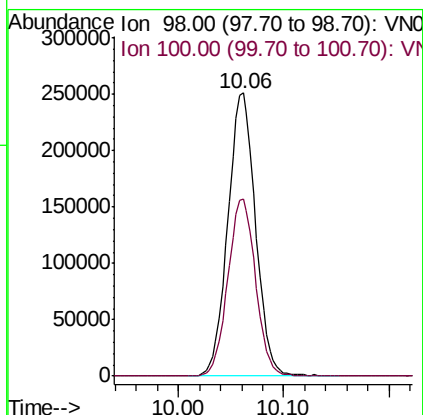
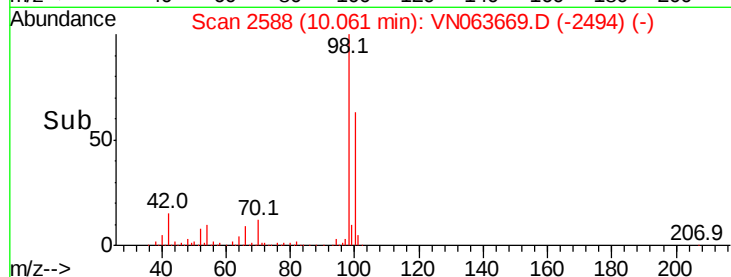
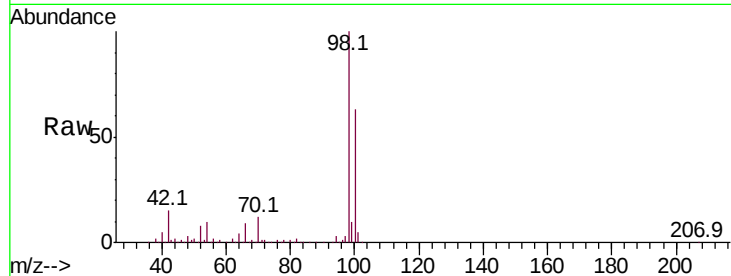
DRIP-LIQUID

Tot Ion: 98 Resp: 456157

Ion Ratio Lower Upper

98 100

100 62.7 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 2.602 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063669.D

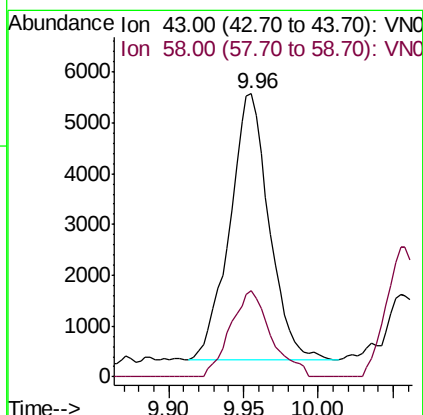
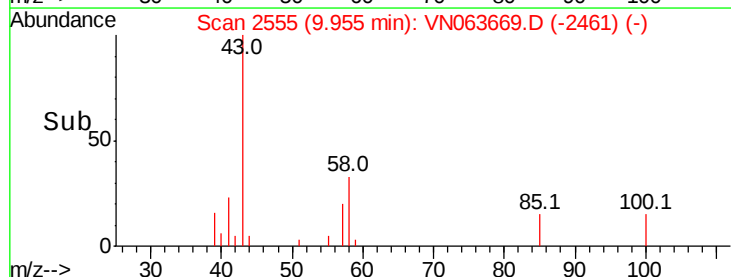
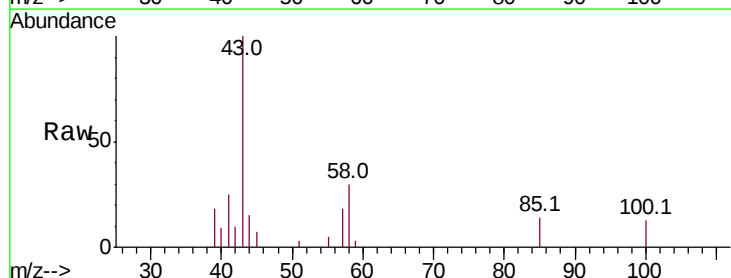
Acq: 25 Sep 2020 8:37

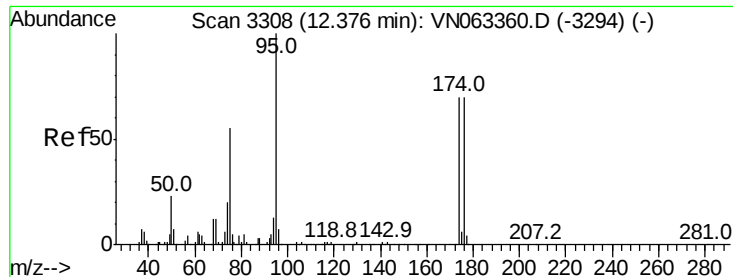
Tgt Ion: 43 Resp: 9609

Ion Ratio Lower Upper

43 100

58 33.5 29.0 43.6





#62

4-Bromofluorobenzene

Concen: 54.750 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063669.D

Acq: 25 Sep 2020 8:37

Instrument :

MSVOA_N

ClientSampleId :

DRIP-LIQUID

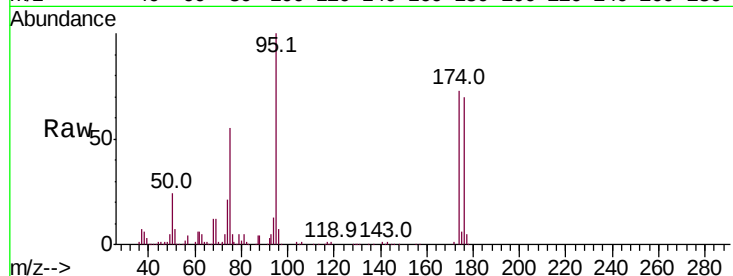
Tot Ion: 95 Resp: 184322

Ion Ratio Lower Upper

95 100

174 75.0 0.0 140.8

176 70.5 0.0 137.6

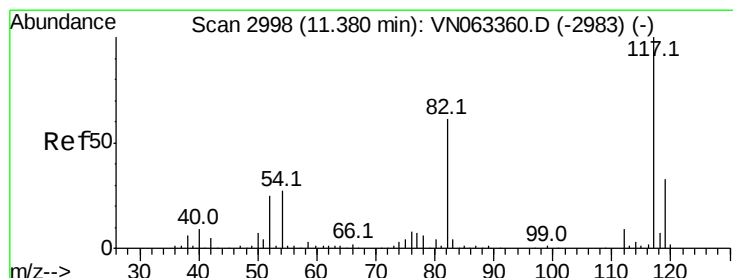
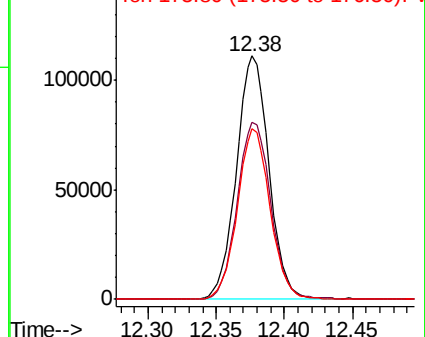
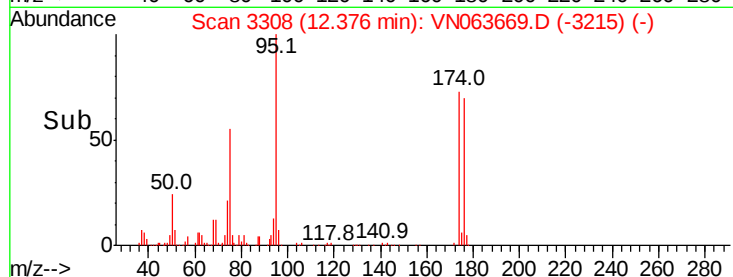


Abundance Ion 94.90 (94.60 to 95.60): VN063669.D (-3215) (-)

150000

Ion 173.80 (173.50 to 174.50): VN063669.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063669.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063669.D

Acq: 25 Sep 2020 8:37

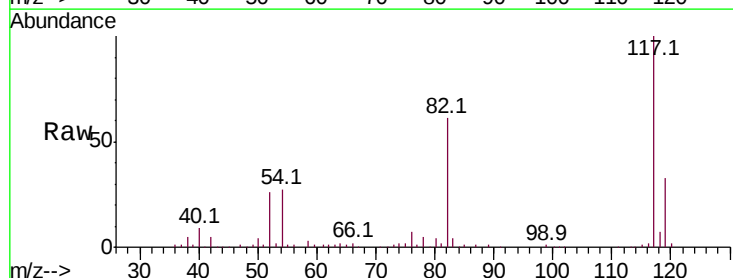
Tgt Ion: 117 Resp: 360971

Ion Ratio Lower Upper

117 100

82 61.1 49.2 73.8

119 33.1 26.2 39.4

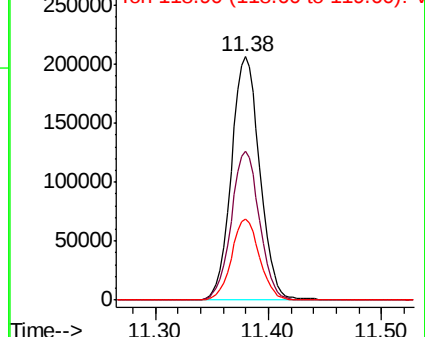
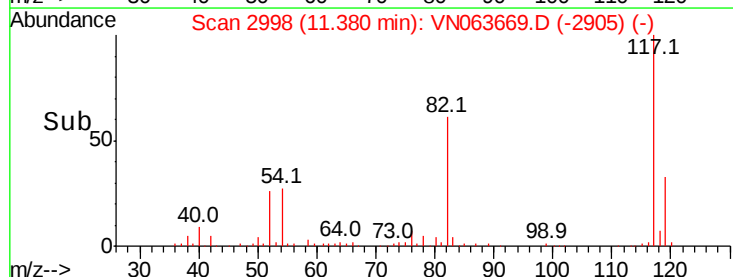


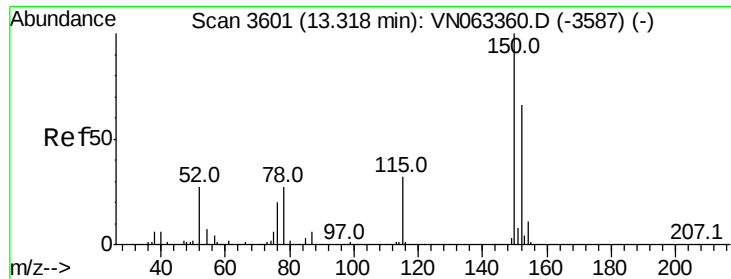
Abundance Ion 116.90 (116.60 to 117.60): VN063669.D (-2905) (-)

250000

Ion 82.00 (81.70 to 82.70): VN063669.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063669.D (-2905) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063669.D

Acq: 25 Sep 2020 8:37

Instrument :

MSVOA_N

ClientSampleId :

DRIP-LIQUID

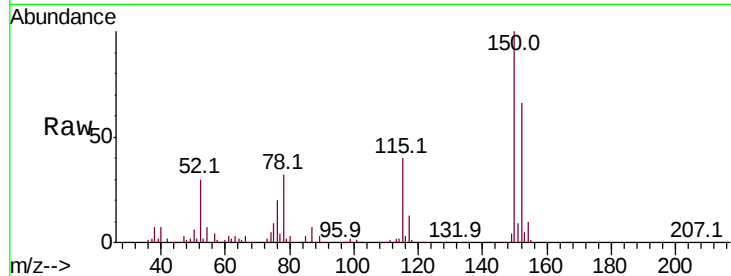
Tot Ion:152 Resp: 163278

Ion Ratio Lower Upper

152 100

115 62.6 32.2 96.6

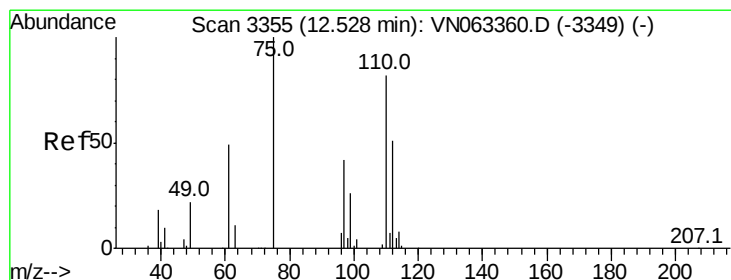
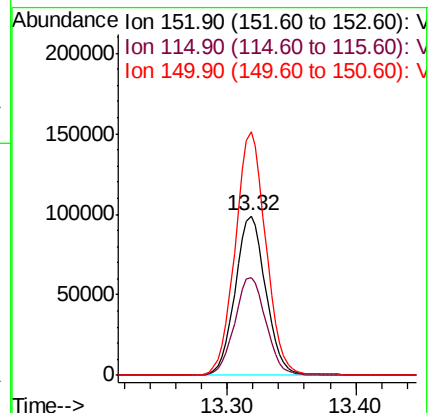
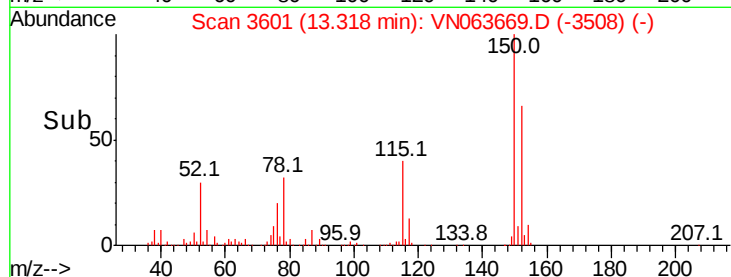
150 153.6 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.058 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063669.D

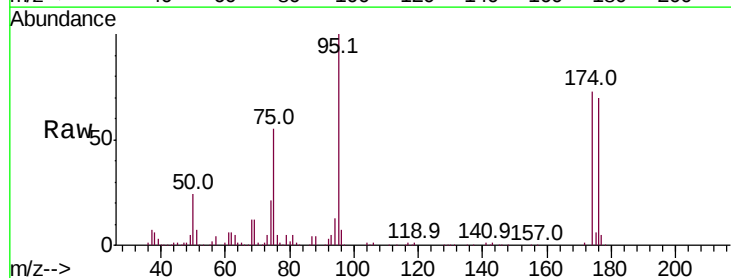
Acq: 25 Sep 2020 8:37

Tgt Ion: 75 Resp: 105310

Ion Ratio Lower Upper

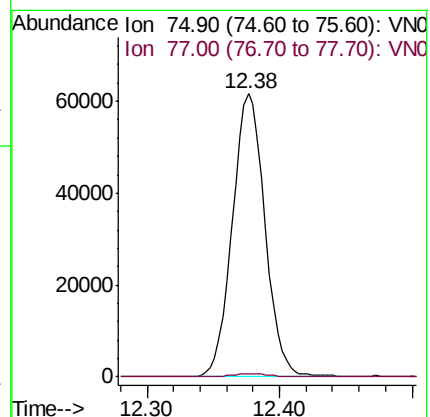
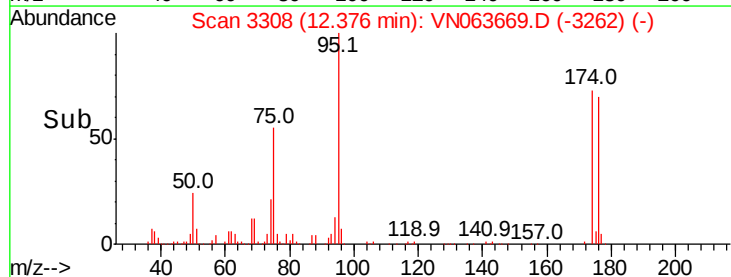
75 100

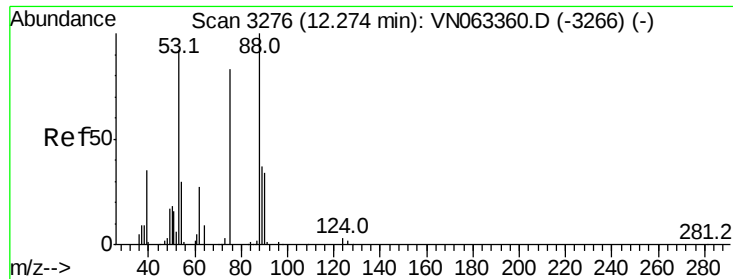
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 71.441 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063669.D

Acq: 25 Sep 2020 8:37

Instrument :

MSVOA_N

ClientSampleId :

DRIP-LIQUID

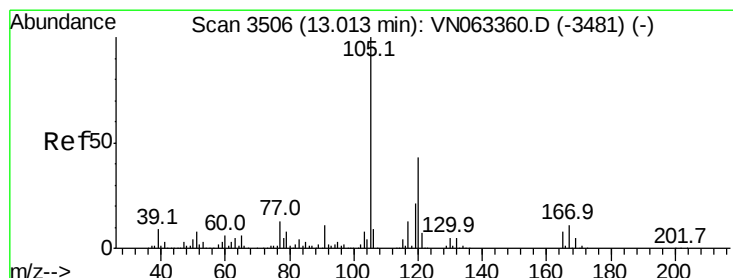
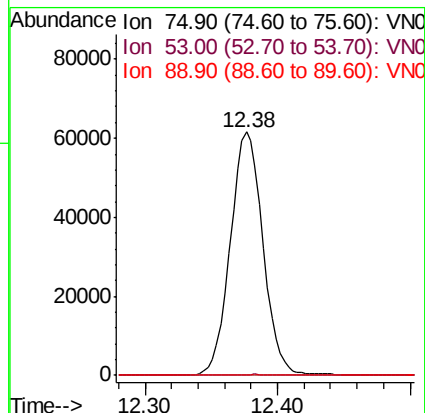
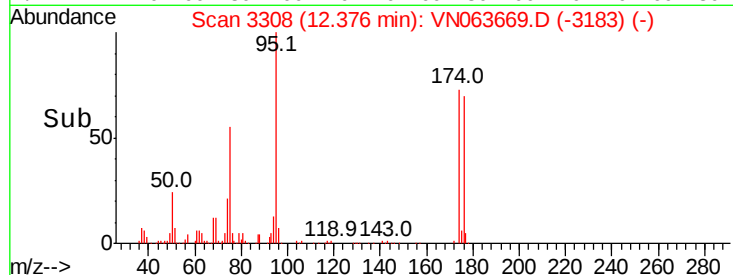
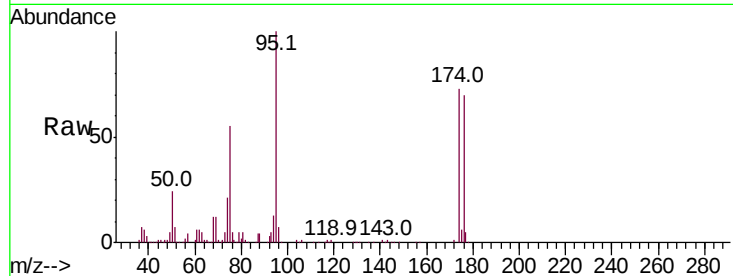
Tot Ion: 75 Resp: 105310

Ion Ratio Lower Upper

75 100

53 0.2 85.7 128.5#

89 0.0 38.0 57.0#



#84

1,2,4-Trimethylbenzene

Concen: 0.221 ug/l

RT: 13.01 min Scan# 3506

Delta R.T. -0.00 min

Lab File: VN063669.D

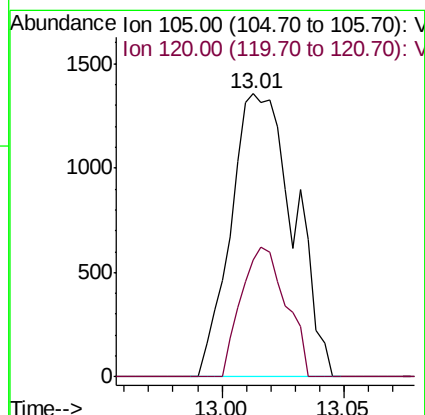
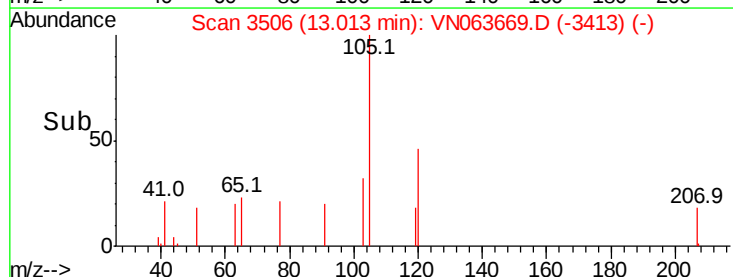
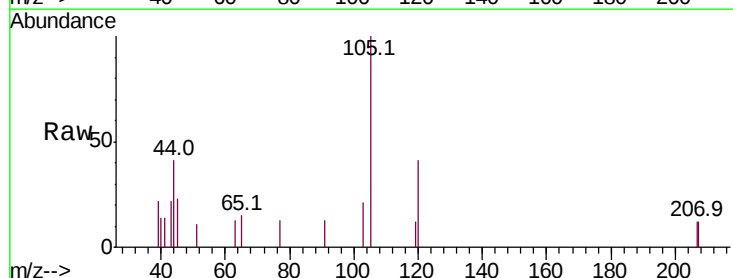
Acq: 25 Sep 2020 8:37

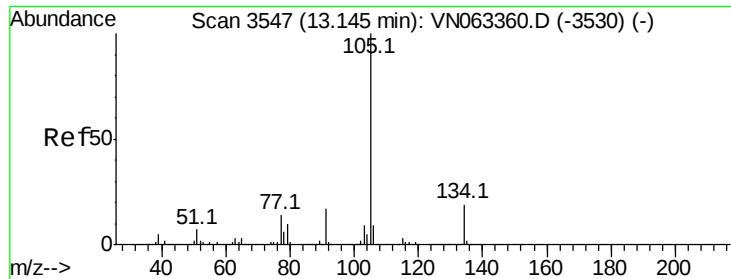
Tgt Ion: 105 Resp: 2433

Ion Ratio Lower Upper

105 100

120 32.4 21.3 63.9





#85

sec-Butylbenzene

Concen: 0.202 ug/l

RT: 13.01 min Scan# 3506

Delta R.T. -0.13 min

Lab File: VN063669.D

Acq: 25 Sep 2020 8:37

Instrument :

MSVOA_N

ClientSampleId :

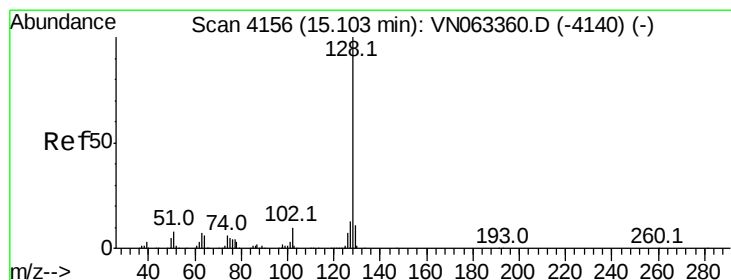
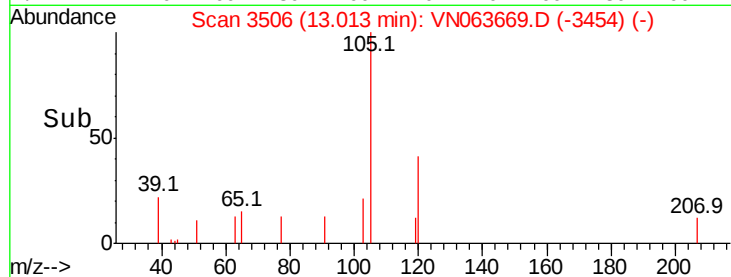
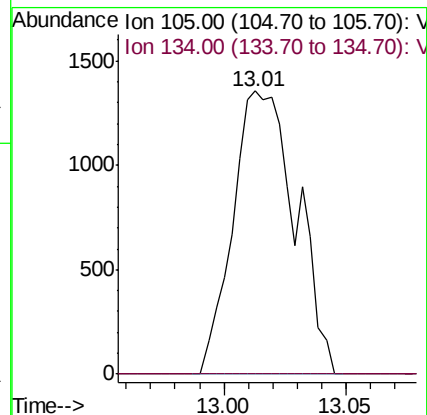
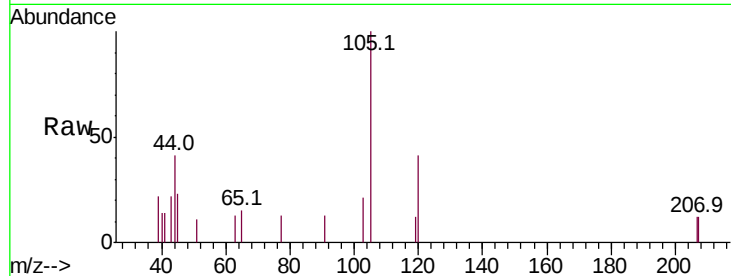
DRIP-LIQUID

Tot Ion:105 Resp: 2433

Ion Ratio Lower Upper

105 100

134 0.0 9.3 27.7#



#95

Naphthalene

Concen: 0.523 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN063669.D

Acq: 25 Sep 2020 8:37

Tgt Ion:128 Resp: 5457

Ion Ratio Lower Upper

128 100

127 6.8 10.6 15.8#

129 0.0 8.8 13.2#

