

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034133.D
 Acq On : 5 Sep 2019 12:51
 Operator : SY/AP
 Sample : K4612-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AMBIENTDL

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:10 AM

Quant Time: Sep 11 21:56:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1063565	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1961827	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	1959750	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1668753	10.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	11807m	0.178	ppbv	
13) Ethanol	3.61	45	182636	14.055	ppbv	98
15) Acetone	3.86	43	390309m	3.045	ppbv	
25) Ethyl Acetate	5.71	43	406790	1.446	ppbv #	93
34) 2-Butanone	5.27	43	449301	2.382	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	1355231	4.709	ppbv	98
53) Toluene	9.88	91	169495	0.683	ppbv	94
58) Ethyl Benzene	12.79	91	69839	0.217	ppbv	96
59) m/p-Xylene	13.05	91	148584m	0.567	ppbv	
60) o-Xylene	13.78	91	76760	0.294	ppbv	96
61) Styrene	13.61	104	19178m	0.098	ppbv	
64) n-propylbenzene	15.66	120	9712m	0.114	ppbv	
65) tert-Butylbenzene	16.86	119	30760m	0.105	ppbv	
72) 4-Ethyltoluene	15.93	105	71666m	0.243	ppbv	
73) 1,3,5-Trimethylbenzene	16.09	105	69224m	0.242	ppbv	
74) 1,2,4-Trimethylbenzene	16.85	105	289675	0.983	ppbv #	71

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

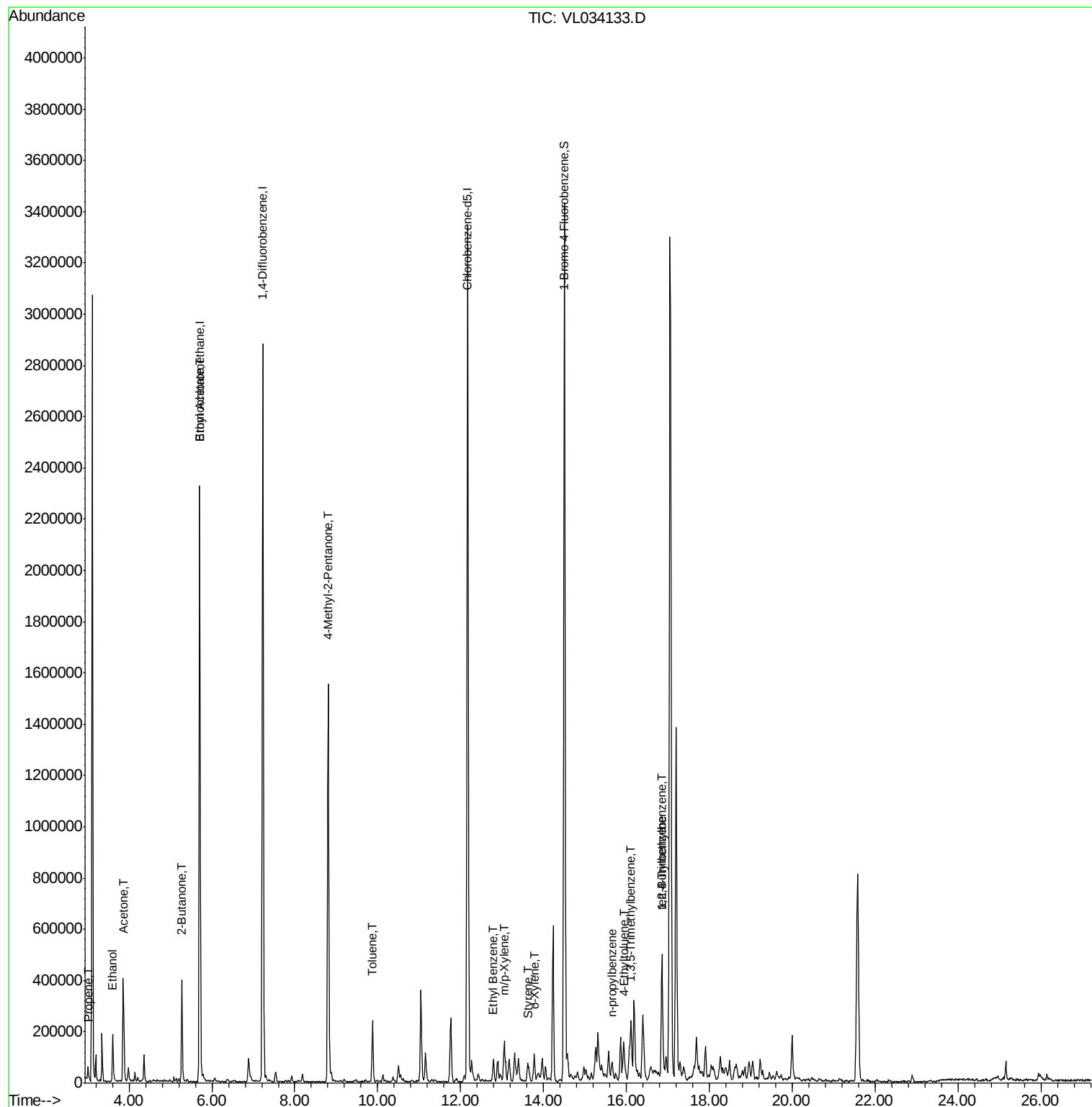
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090519\
Data File : VL034133.D
Acq On : 5 Sep 2019 12:51
Operator : SY/AP
Sample : K4612-01DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

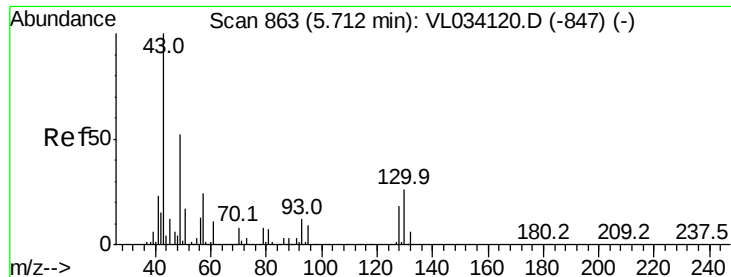
Instrument :
MSVOA_L
ClientSampleId :
AMBIENTDL

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9/12/2019 5:15:10 AM

Quant Time: Sep 11 21:56:43 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 05 10:21:45 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 860

Delta R.T. -0.01 min

Lab File: VL034133.D

Acq: 5 Sep 2019 12:51

Instrument :

MSVOA_L

ClientSampleId :

AMBIENTDL

Tot Ion: 49 Resp: 1063565

Ion Ratio Lower Upper

49 100

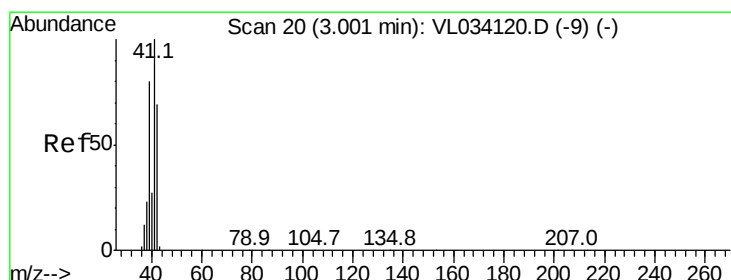
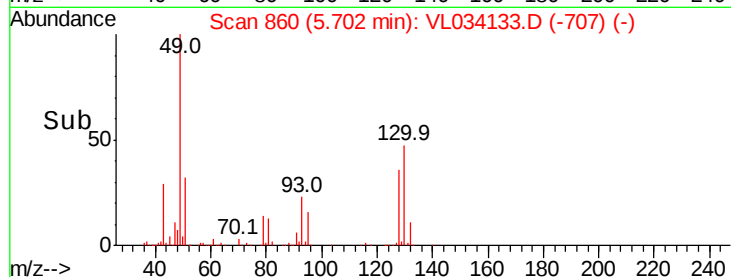
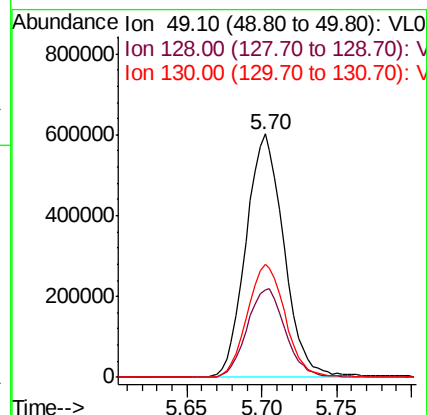
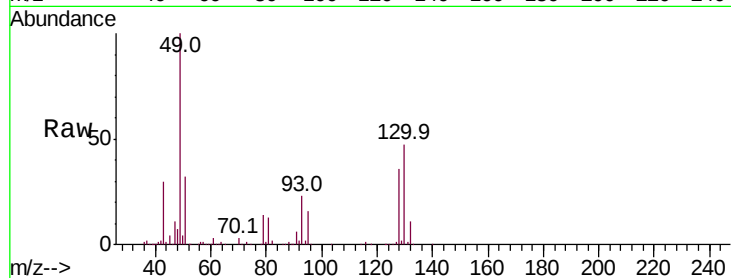
128 36.9 18.4 55.0

130 47.2 23.5 70.6

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#9

Propene

Concen: 0.178 ppbv m

RT: 3.01 min Scan# 23

Delta R.T. 0.01 min

Lab File: VL034133.D

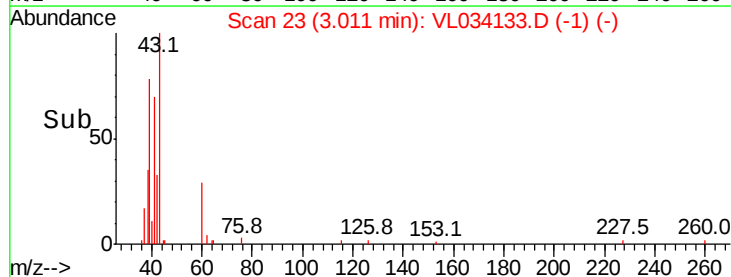
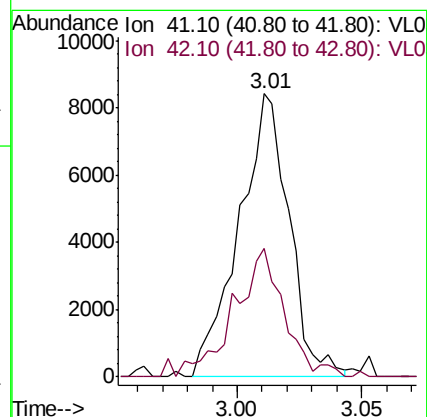
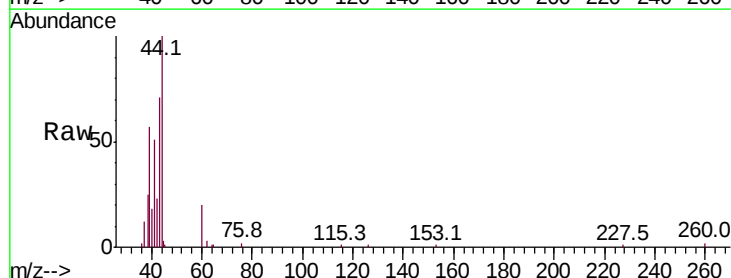
Acq: 5 Sep 2019 12:51

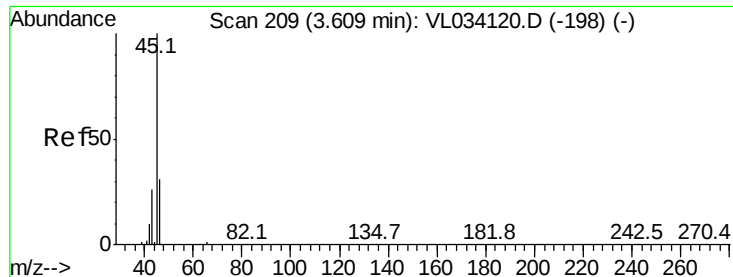
Tgt Ion: 41 Resp: 11807

Ion Ratio Lower Upper

41 100

42 140.7 54.6 81.8#





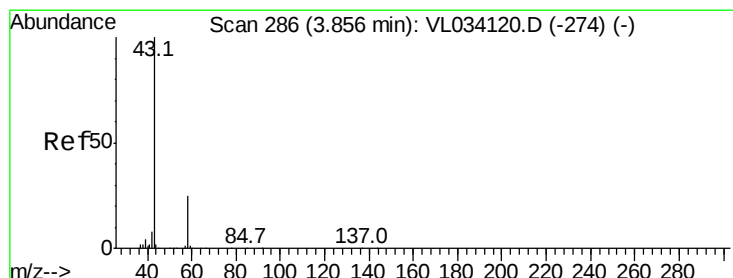
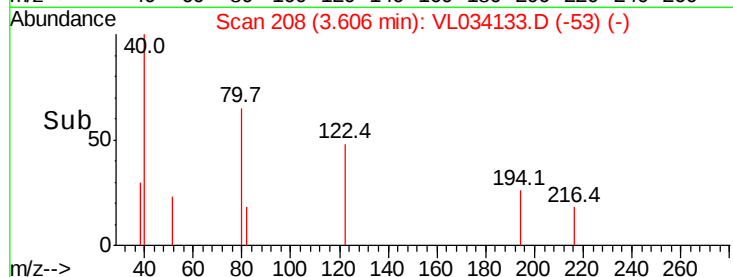
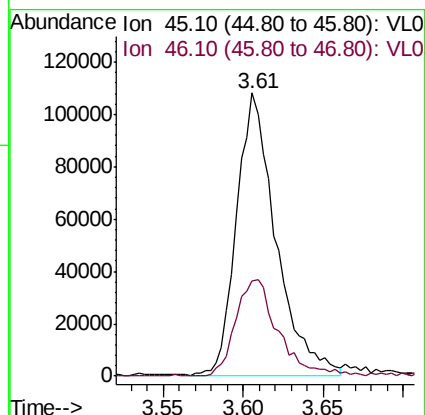
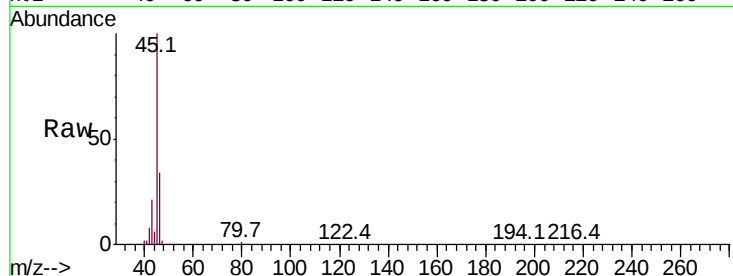
#13
Ethanol
Concen: 14.055 ppbv
RT: 3.61 min Scan# 208
Delta R.T. -0.00 min
Lab File: VL034133.D
Acq: 5 Sep 2019 12:51

Instrument :
MSVOA_L
ClientSampleId :
AMBIENTDL

Tot Ion: 45 Resp: 182636
Ion Ratio Lower Upper
45 100
46 36.0 15.0 60.0

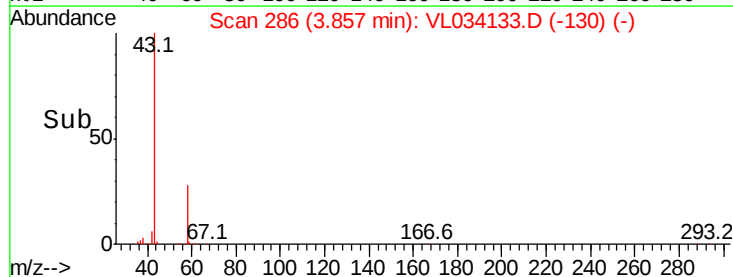
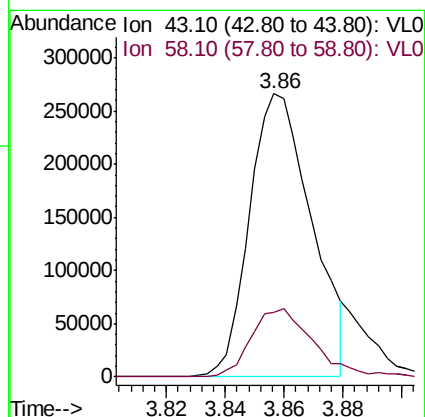
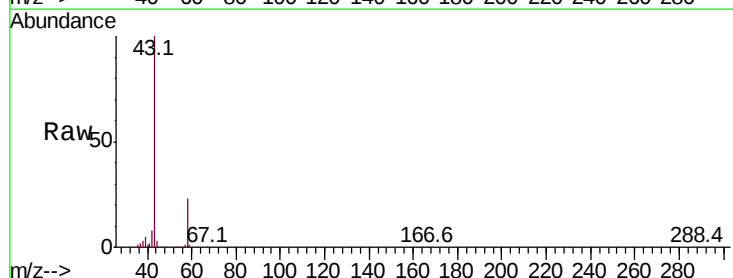
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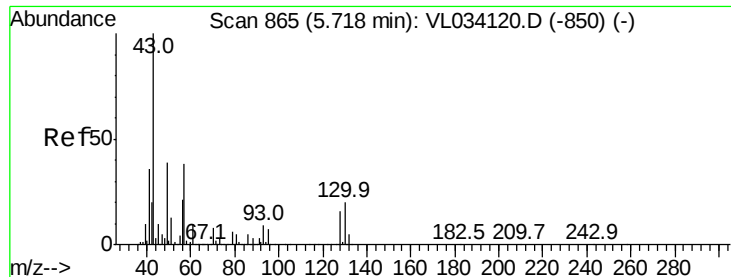
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#15
Acetone
Concen: 3.045 ppbv m
RT: 3.86 min Scan# 286
Delta R.T. 0.00 min
Lab File: VL034133.D
Acq: 5 Sep 2019 12:51

Tgt Ion: 43 Resp: 390309
Ion Ratio Lower Upper
43 100
58 24.5 20.6 30.8





#25

Ethyl Acetate

Concen: 1.446 ppbv

RT: 5.71 min Scan# 862

Delta R.T. -0.01 min

Lab File: VL034133.D

Acq: 5 Sep 2019 12:51

Instrument :

MSVOA_L

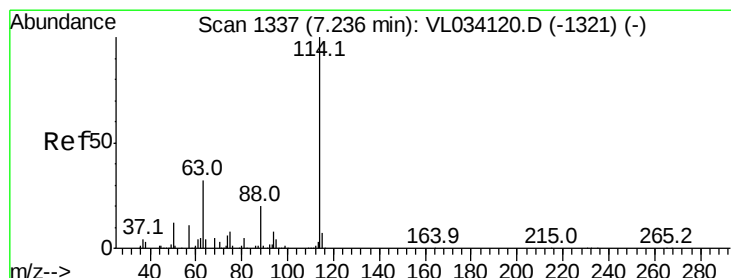
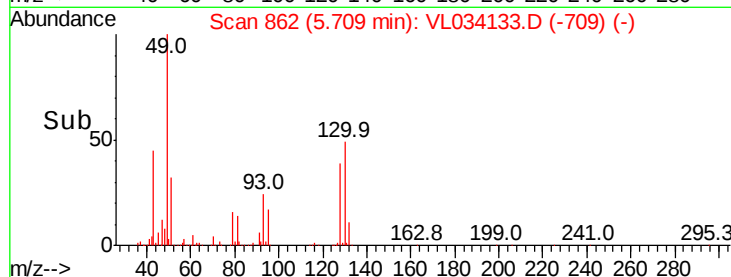
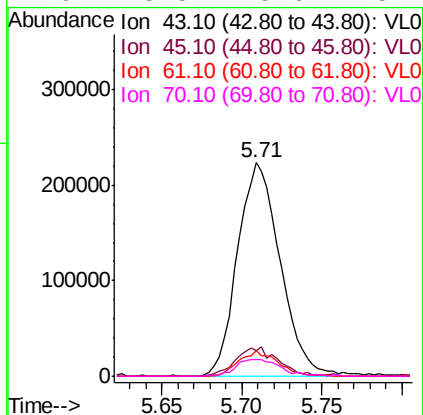
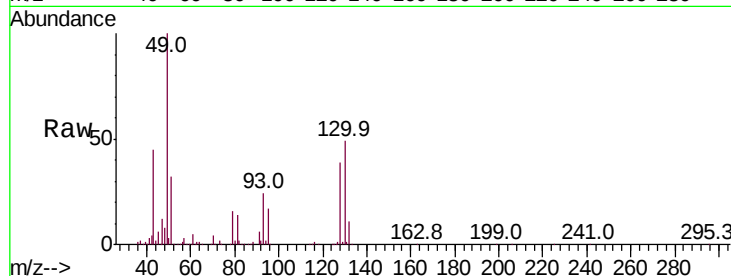
ClientSampleId :

AMBIENTDL

Tot Ion	Ratio	Lower	Upper
43	100		
45	13.8	8.2	12.4#
61	11.2	7.4	11.2#
70	8.5	5.6	8.4#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

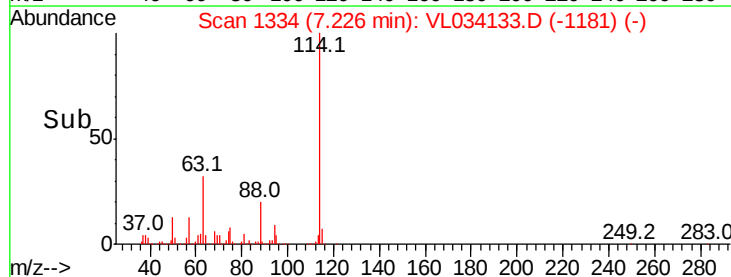
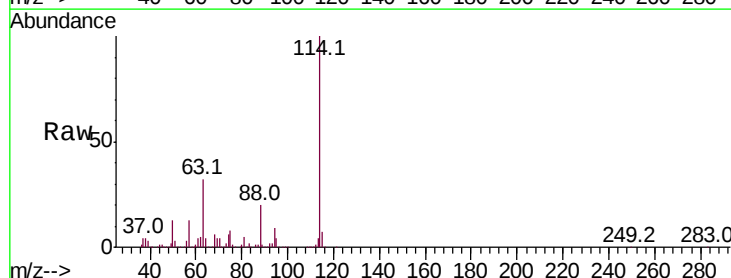
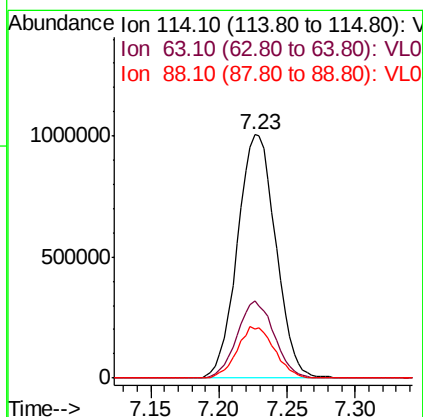
RT: 7.23 min Scan# 1334

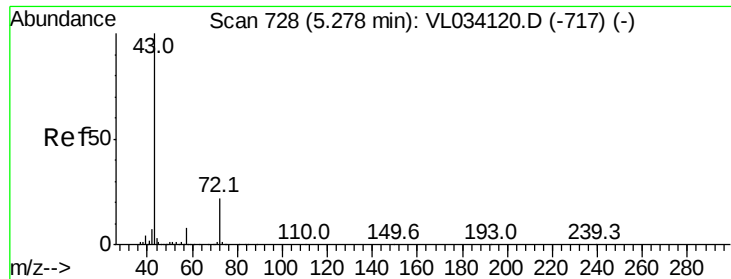
Delta R.T. -0.01 min

Lab File: VL034133.D

Acq: 5 Sep 2019 12:51

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.8	25.5	38.3
88	20.5	16.8	25.2





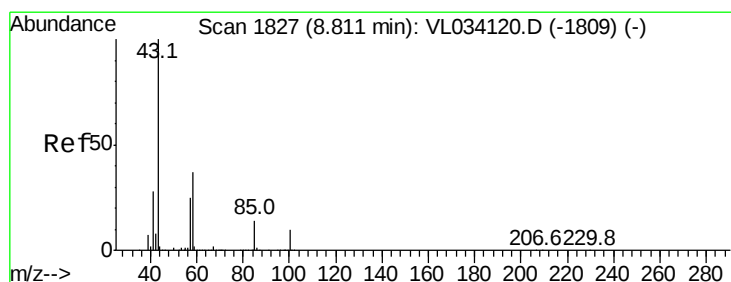
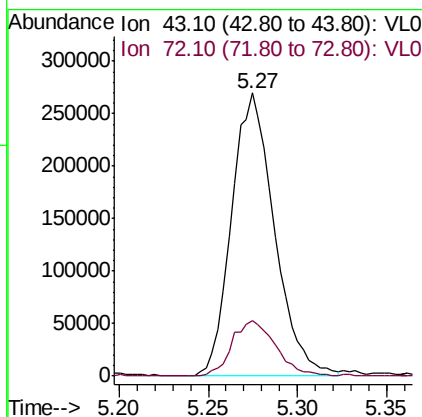
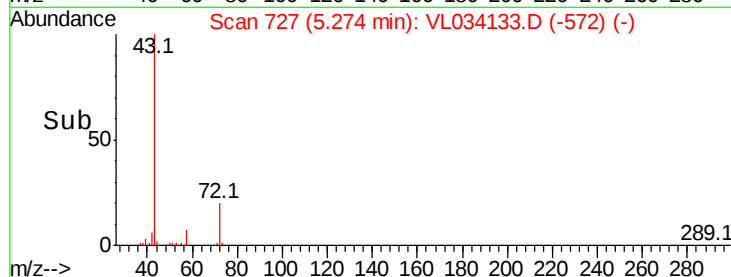
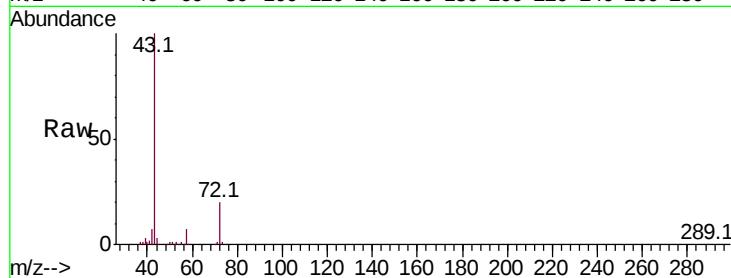
#34
 2-Butanone
 Concen: 2.382 ppbv
 RT: 5.27 min Scan# 727
 Delta R.T. -0.00 min
 Lab File: VL034133.D
 Acq: 5 Sep 2019 12:51

Instrument :
 MSVOA_L
 ClientSampleId :
 AMBIENTDL

Tot Ion	43	Resp	449301
Ion Ratio	100	Lower	Upper
72	20.3	16.5	24.7

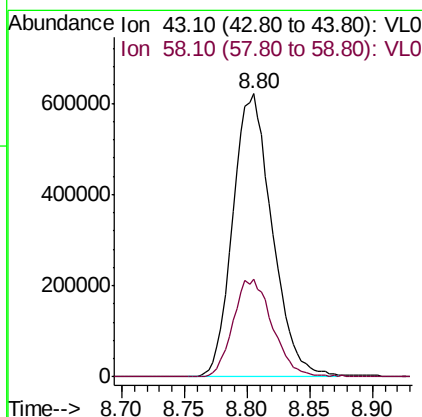
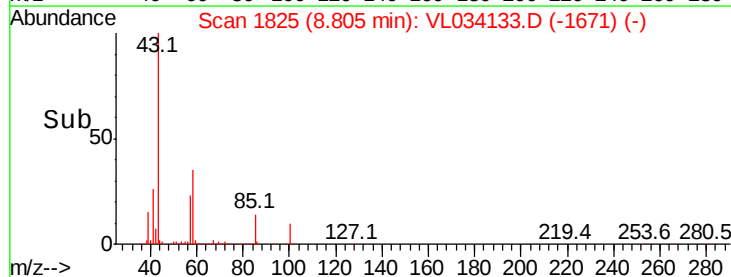
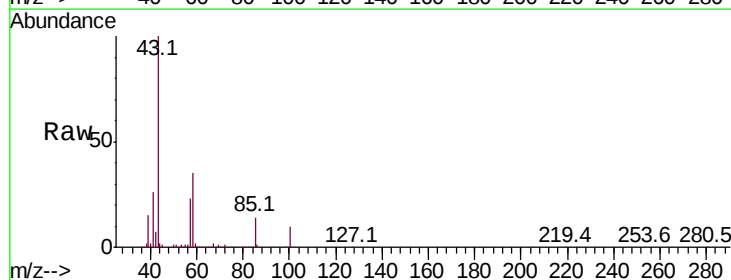
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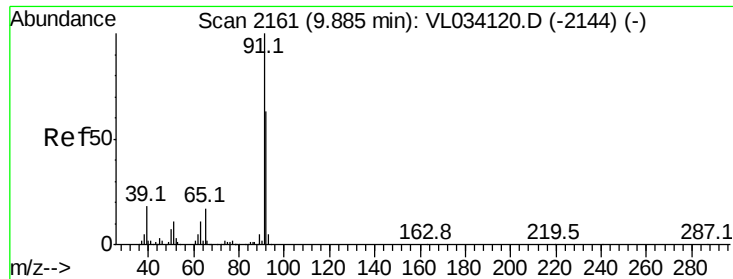
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#50
 4-Methyl-2-Pentanone
 Concen: 4.709 ppbv
 RT: 8.80 min Scan# 1825
 Delta R.T. -0.01 min
 Lab File: VL034133.D
 Acq: 5 Sep 2019 12:51

Tgt Ion	43	Resp	1355231
Ion Ratio	100	Lower	Upper
58	34.6	28.5	42.7





#53

Toluene

Concen: 0.683 ppbv

RT: 9.88 min Scan# 2158

Delta R.T. -0.01 min

Lab File: VL034133.D

Acq: 5 Sep 2019 12:51

Instrument :

MSVOA_L

ClientSampleId :

AMBIENTDL

Tot Ion: 91 Resp: 169495

Ion Ratio Lower Upper

91 100

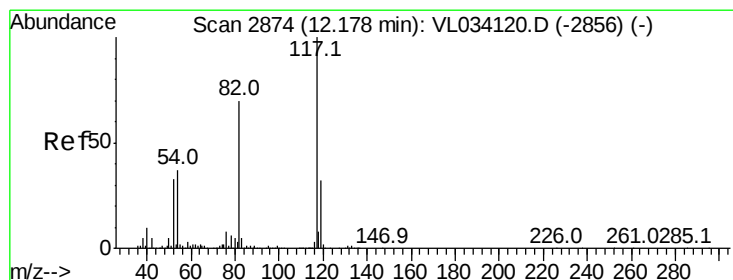
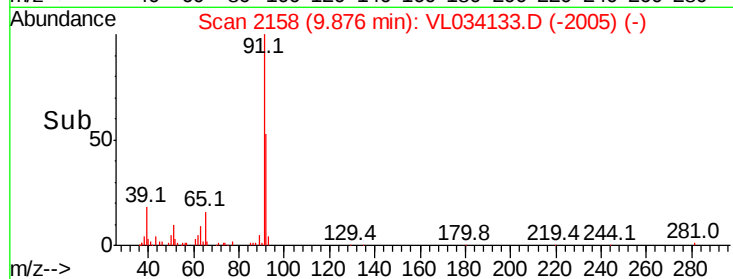
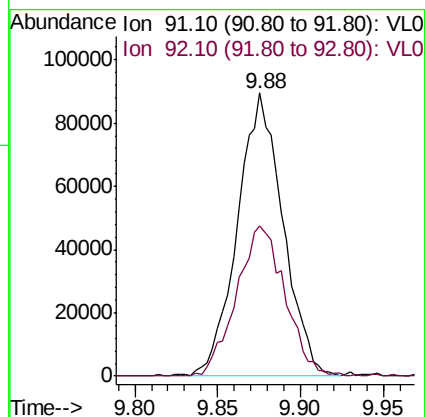
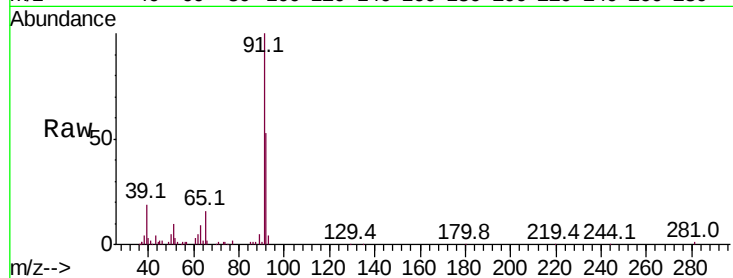
92 57.1 49.3 73.9

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.17 min Scan# 2871

Delta R.T. -0.01 min

Lab File: VL034133.D

Acq: 5 Sep 2019 12:51

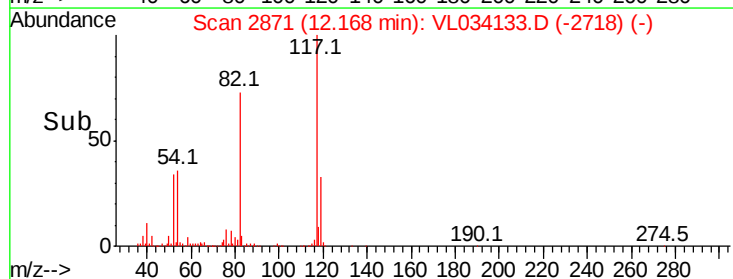
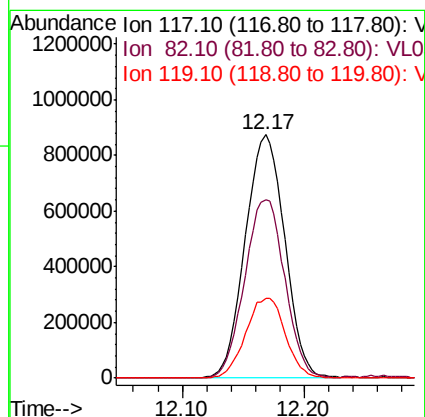
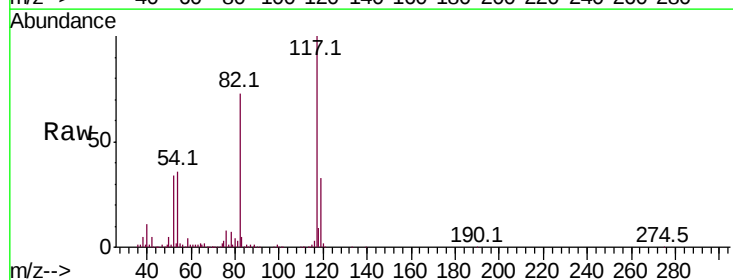
Tgt Ion: 117 Resp: 1959750

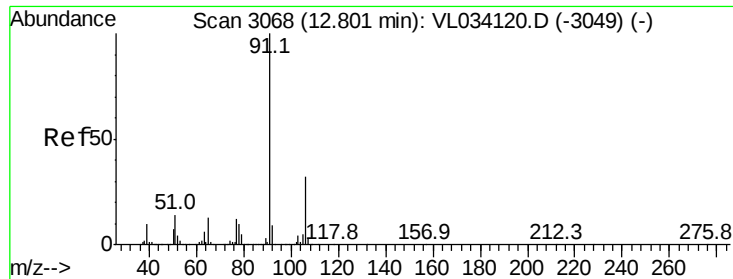
Ion Ratio Lower Upper

117 100

82 74.5 55.8 83.6

119 33.2 43.1 64.7#





#58

Ethyl Benzene

Concen: 0.217 ppbv

RT: 12.79 min Scan# 3065

Delta R.T. -0.01 min

Lab File: VL034133.D

Acq: 5 Sep 2019 12:51

Instrument :

MSVOA_L

ClientSampleId :

AMBIENTDL

Tot Ion: 91 Resp: 69839

Ion Ratio Lower Upper

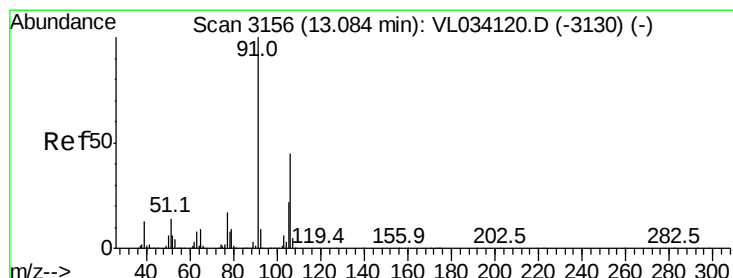
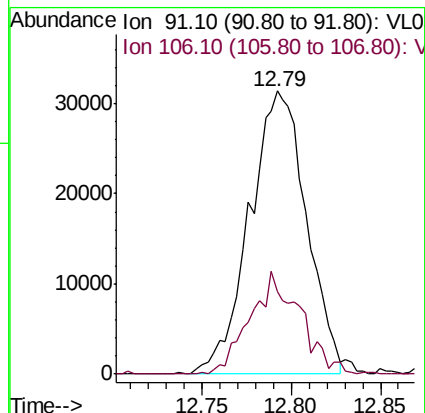
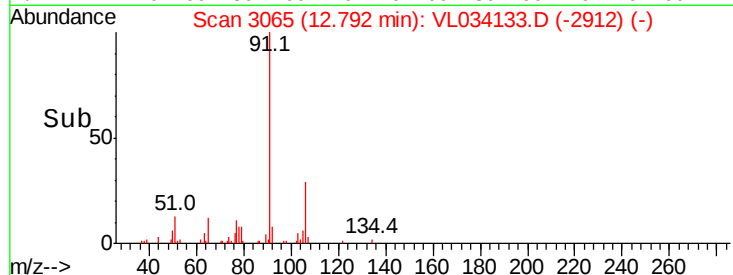
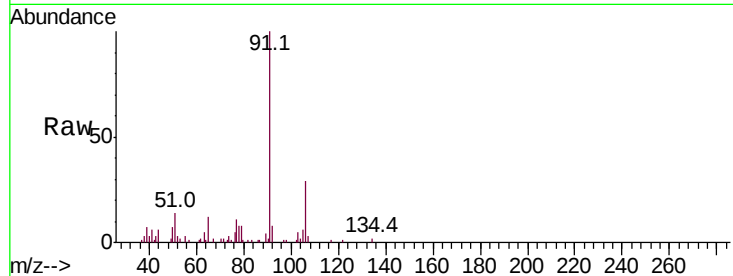
91 100

106 29.3 25.3 37.9

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#59

m/p-Xylene

Concen: 0.567 ppbv m

RT: 13.05 min Scan# 3144

Delta R.T. -0.04 min

Lab File: VL034133.D

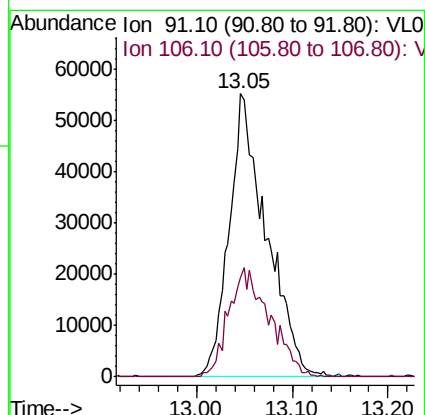
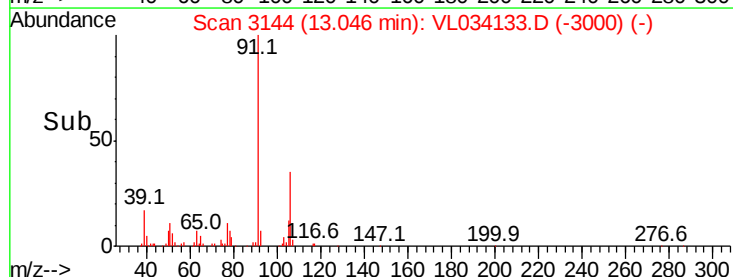
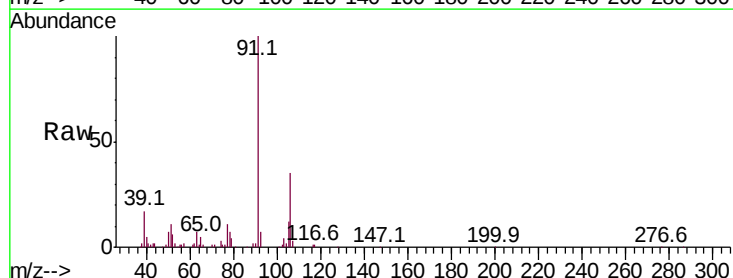
Acq: 5 Sep 2019 12:51

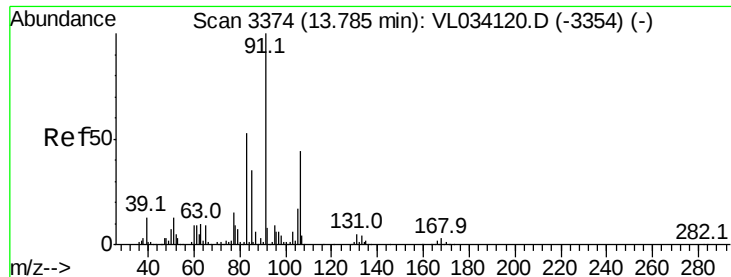
Tgt Ion: 91 Resp: 148584

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#





#60

o-Xylene

Concen: 0.294 ppbv

RT: 13.78 min Scan# 3373

Delta R.T. -0.00 min

Lab File: VL034133.D

Acq: 5 Sep 2019 12:51

Instrument :

MSVOA_L

ClientSampleId :

AMBIENTDL

Tot Ion: 91 Resp: 76760

Ion Ratio Lower Upper

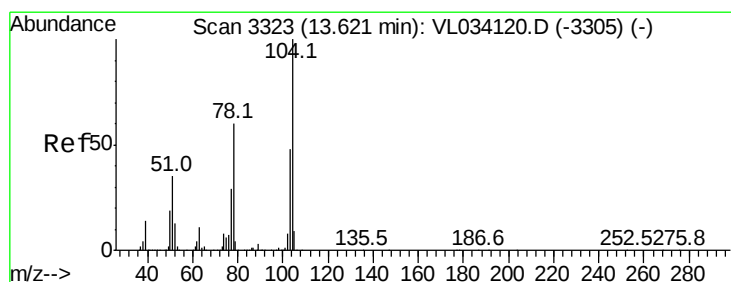
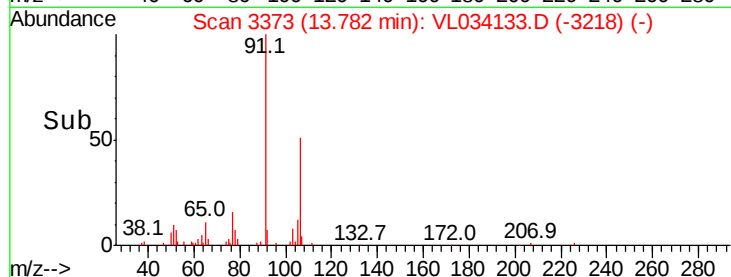
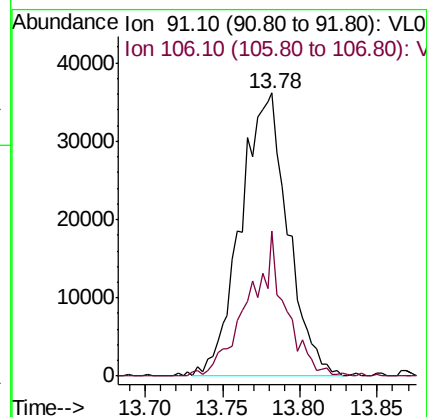
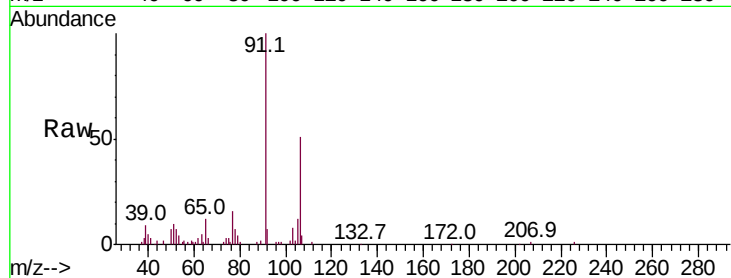
91 100

106 40.2 21.4 64.3

Manual Integrations
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#61

Styrene

Concen: 0.098 ppbv m

RT: 13.61 min Scan# 3319

Delta R.T. -0.01 min

Lab File: VL034133.D

Acq: 5 Sep 2019 12:51

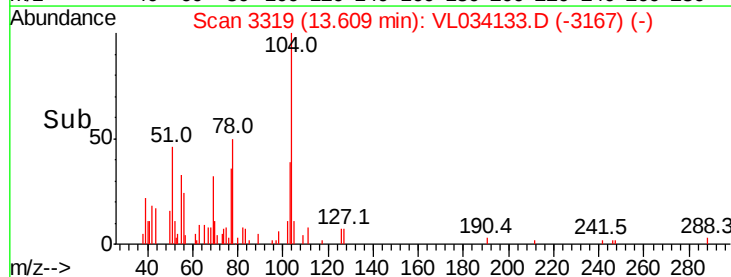
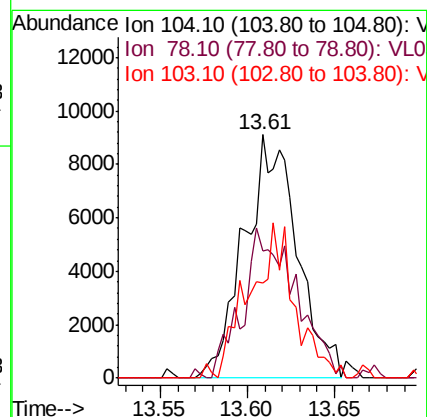
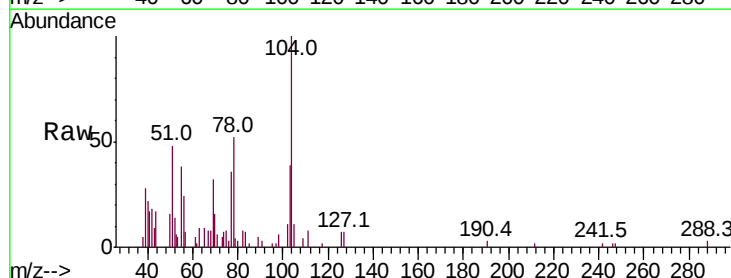
Tgt Ion: 104 Resp: 19178

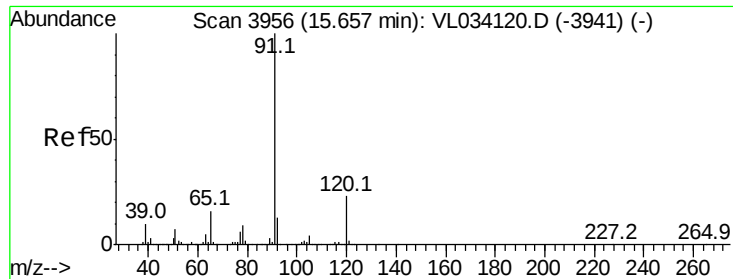
Ion Ratio Lower Upper

104 100

78 62.6 47.8 71.6

103 0.0 38.7 58.1#





#64

n-propylbenzene

Concen: 0.114 ppbv m

RT: 15.66 min Scan# 3956

Delta R.T. 0.00 min

Lab File: VL034133.D

Acq: 5 Sep 2019 12:51

Instrument :

MSVOA_L

ClientSampleId :

AMBIENTDL

Tot Ion:120 Resp: 9712

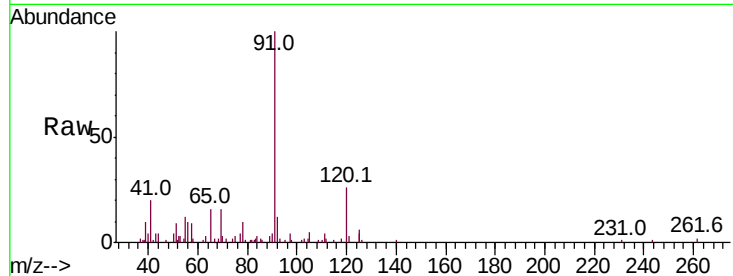
Ion Ratio Lower Upper

120 100

91 554.6 376.8 565.2

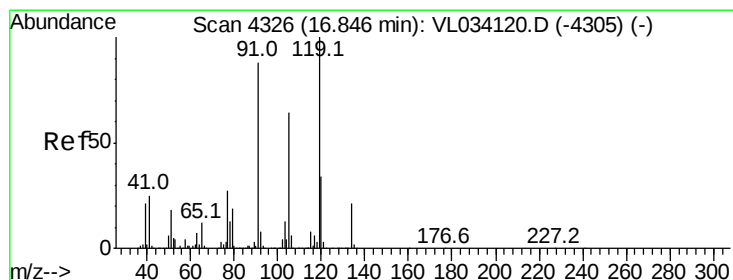
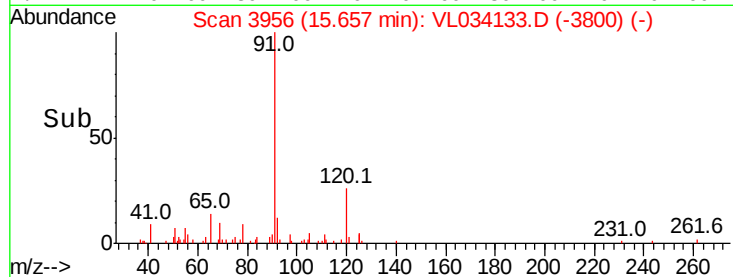
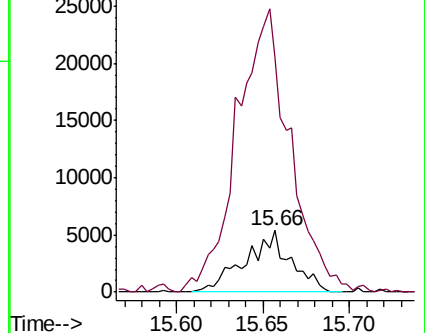
Manual Integrations
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9/12/2019 5:15:10 AM



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.105 ppbv m

RT: 16.86 min Scan# 4329

Delta R.T. 0.01 min

Lab File: VL034133.D

Acq: 5 Sep 2019 12:51

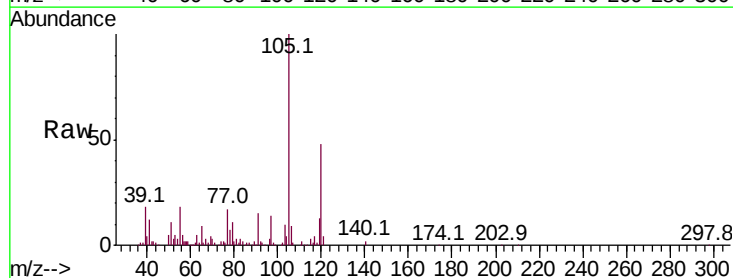
Tgt Ion:119 Resp: 30760

Ion Ratio Lower Upper

119 100

91 137.7 72.8 109.2#

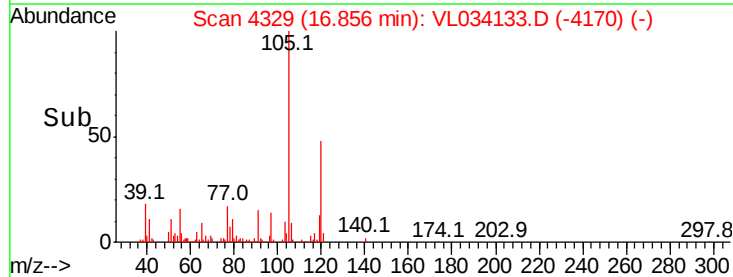
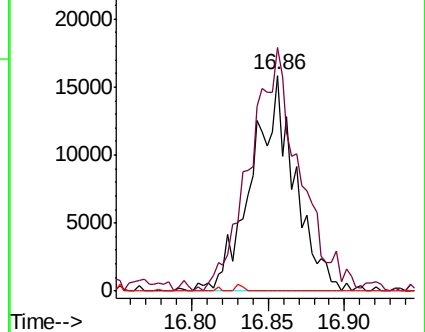
134 0.0 15.8 23.8#

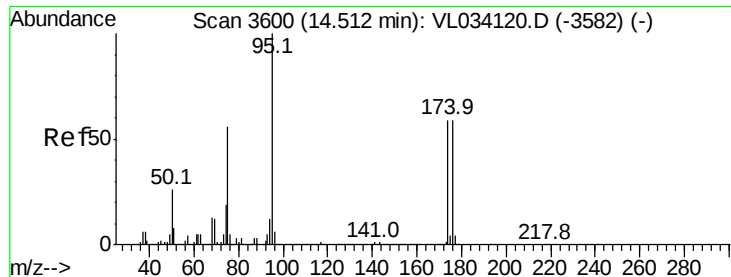


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





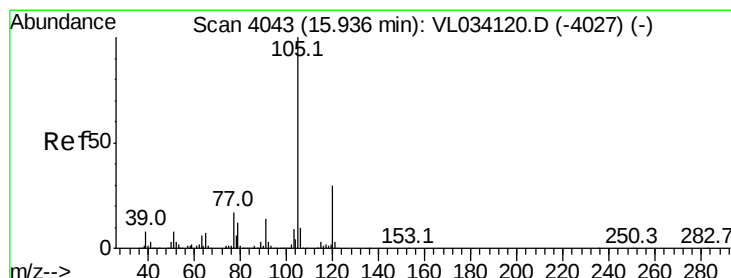
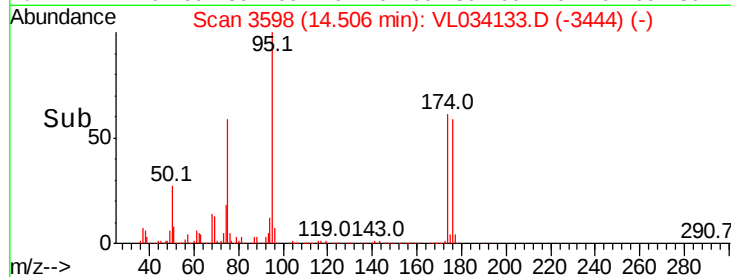
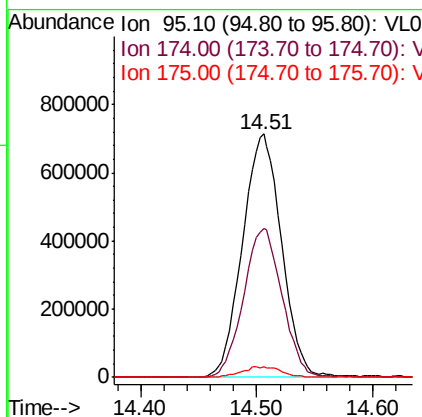
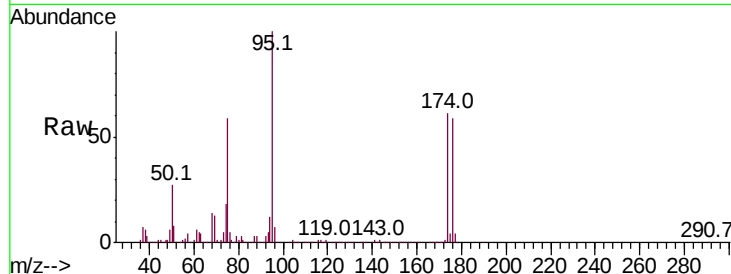
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.416 ppbv
 RT: 14.51 min Scan# 3598
 Delta R.T. -0.01 min
 Lab File: VL034133.D
 Acq: 5 Sep 2019 12:51

Instrument :
 MSVOA_L
 ClientSampleId :
 AMBIENTDL

Tot Ion: 95 Resp: 1668753
 Ion Ratio Lower Upper
 95 100
 174 60.6 48.1 72.1
 175 4.4 3.5 5.3

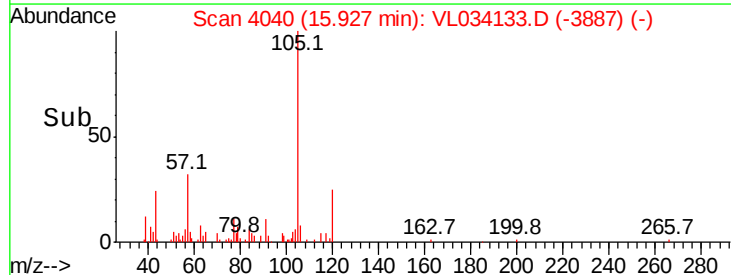
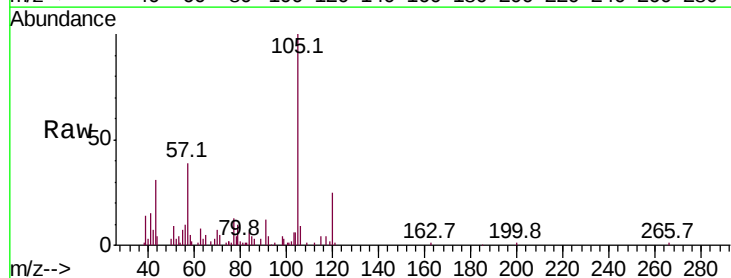
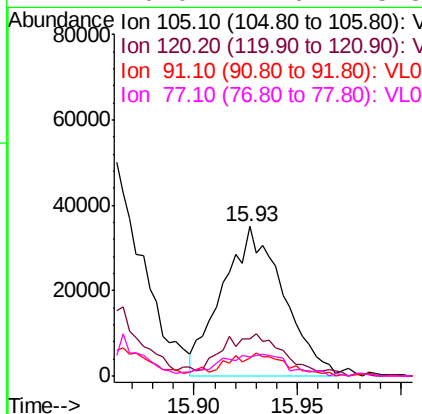
Manual Integrations
 APPROVED

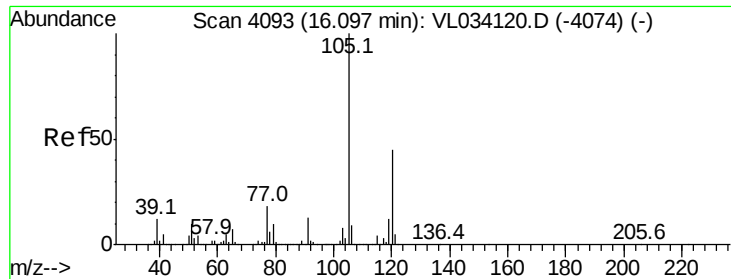
MMDadoda
 9/12/2019 5:15:10 AM



#72
 4-Ethyltoluene
 Concen: 0.243 ppbv m
 RT: 15.93 min Scan# 4040
 Delta R.T. -0.01 min
 Lab File: VL034133.D
 Acq: 5 Sep 2019 12:51

Tgt Ion: 105 Resp: 71666
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.8 35.6#
 91 0.0 11.4 17.0#
 77 0.0 12.6 18.8#





#73

1,3,5-Trimethylbenzene

Concen: 0.242 ppbv m

RT: 16.09 min Scan# 4091

Delta R.T. -0.01 min

Lab File: VL034133.D

Acq: 5 Sep 2019 12:51

Instrument :

MSVOA_L

ClientSampleId :

AMBIENTDL

Tot Ion:105 Resp: 69224

Ion Ratio Lower Upper

105 100

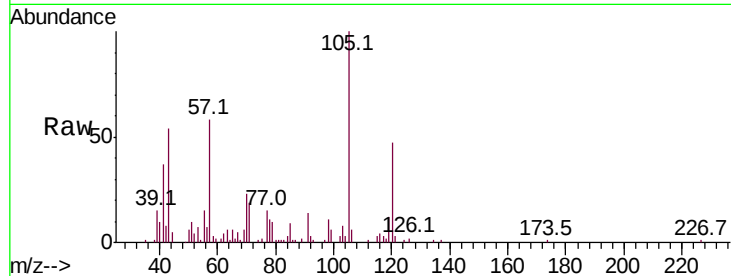
120 47.4 35.8 53.8

Manual Integrations

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9/12/2019 5:15:10 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.09

30000

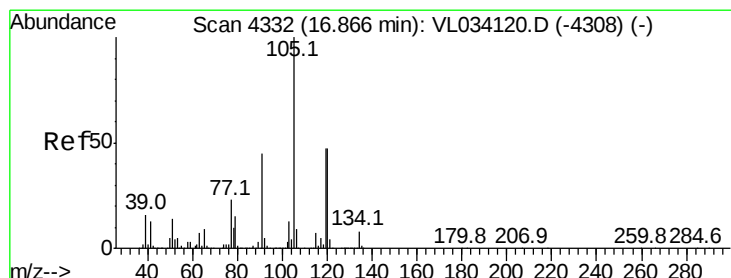
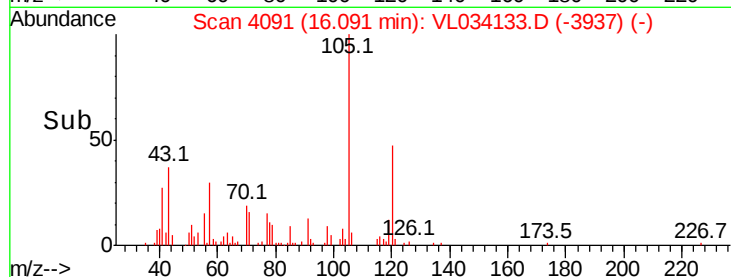
20000

10000

0

16.00 16.05 16.10 16.15

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.983 ppbv

RT: 16.85 min Scan# 4327

Delta R.T. -0.02 min

Lab File: VL034133.D

Acq: 5 Sep 2019 12:51

Tgt Ion:105 Resp: 289675

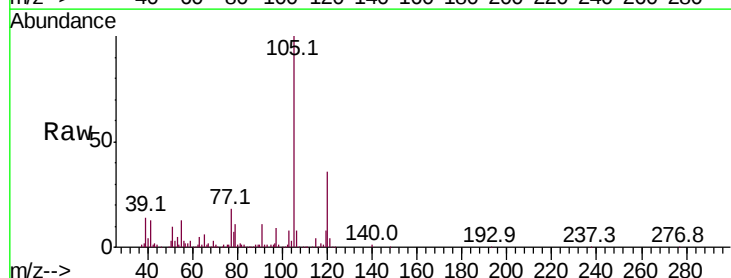
Ion Ratio Lower Upper

105 100

120 35.5 37.7 56.5#

91 11.8 36.2 54.2#

77 18.0 18.5 27.7#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

200000

150000

100000

50000

0

16.75 16.80 16.85 16.90

Time-->

