

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040221\
 Data File : VL036665.D
 Acq On : 3 Apr 2021 4:00
 Operator : SY/AP
 Sample : M1834-04 1200X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4

Manual Integrations
 APPROVED

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 4/5/2021 1:14:24 PM

Quant Time: Apr 04 19:11:18 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1377813	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3089680	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3355957	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	2624745	9.81	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	574845m	7.005	ppbv	
10) Heptane	8.19	43	21902230	104.762	ppbv #	78
26) Hexane	5.75	57	40891875	273.316	ppbv #	48
30) Cyclohexane	7.17	84	18827484	155.165	ppbv #	79
36) Benzene	6.92	78	31851058	111.777	ppbv #	22
44) 2,2,4-Trimethylpentane	7.92	57	73846379m	147.247	ppbv	
53) Toluene	9.84	91	21972940	72.410	ppbv	86
58) Ethyl Benzene	12.71	91	7831609	16.040	ppbv	98
59) m/p-Xylene	12.96	91	8259181	19.394	ppbv	93
60) o-Xylene	13.69	91	1339913	3.254	ppbv	99
62) Isopropylbenzene	14.66	105	161184	0.291	ppbv	99
64) n-propylbenzene	15.55	120	14161m	0.104	ppbv	

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

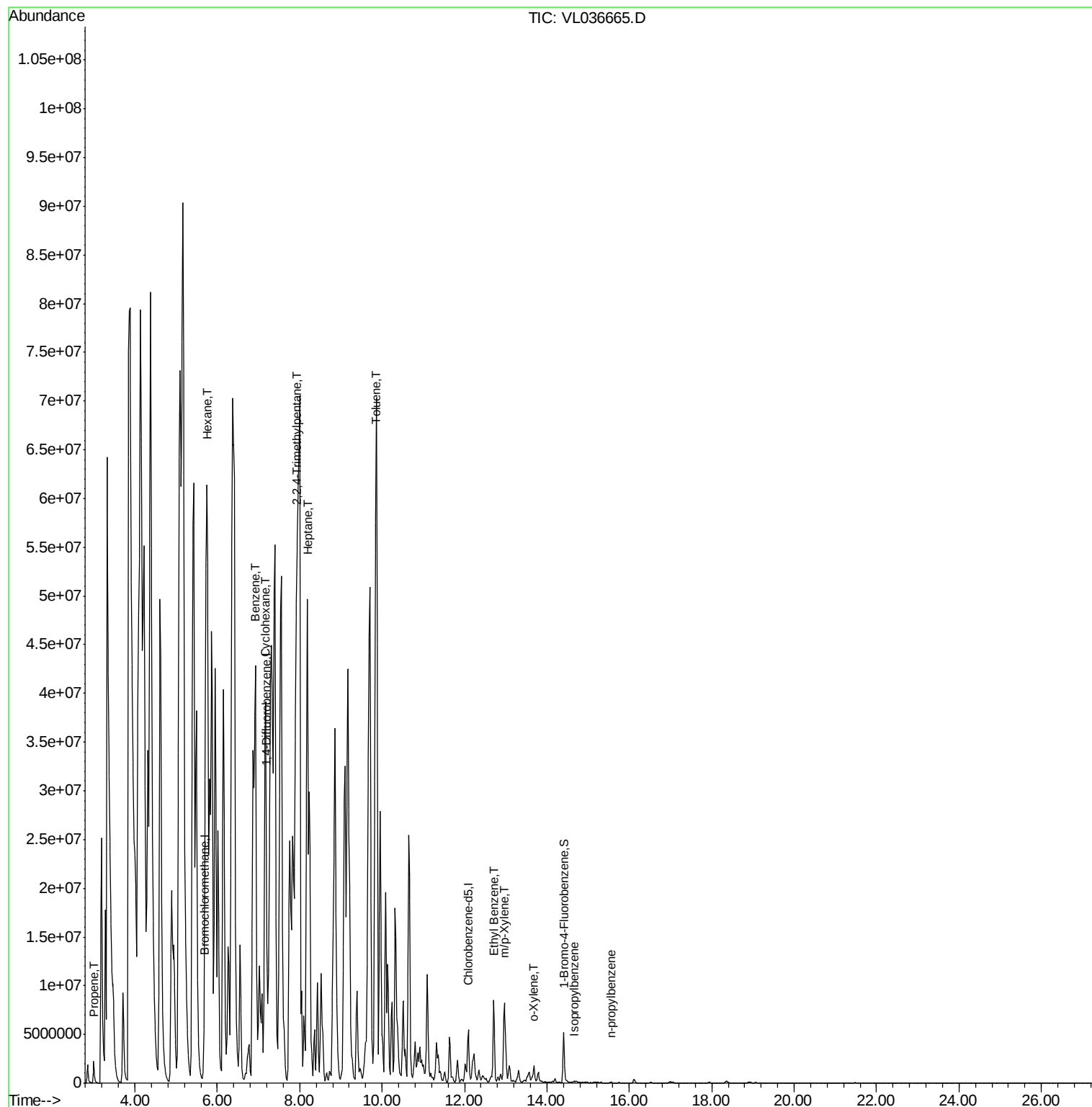
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040221\
Data File : VL036665.D
Acq On : 3 Apr 2021 4:00
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Misc : 400mL/MSVOA L
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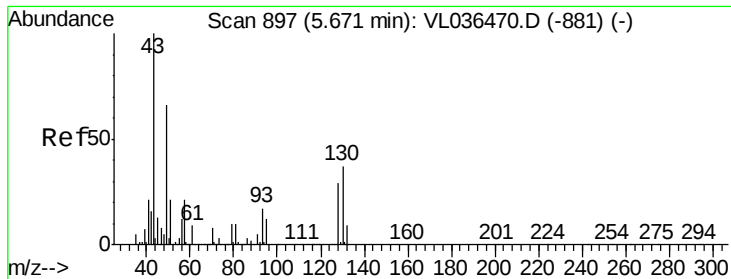
Instrument :
MSVOA_L
ClientSampleId :
SV4

Manual Integrations
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Quant Time: Apr 04 19:11:18 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL036665.D

Acq: 3 Apr 2021 4:00

Instrument :

MSVOA_L

ClientSampled :

SV4

Tot Ion: 49 Resp: 1377813

Ion Ratio Lower Upper

49 100

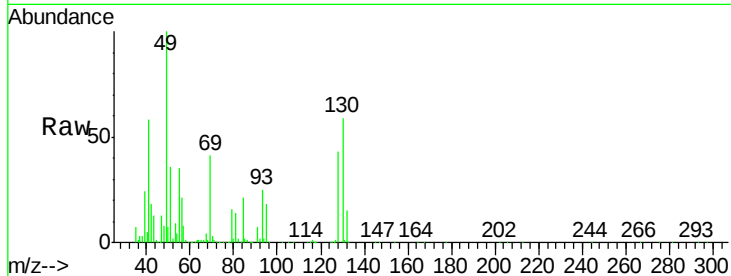
128 47.4 23.5 70.6

130 60.9 29.1 87.4

Manual Integrations
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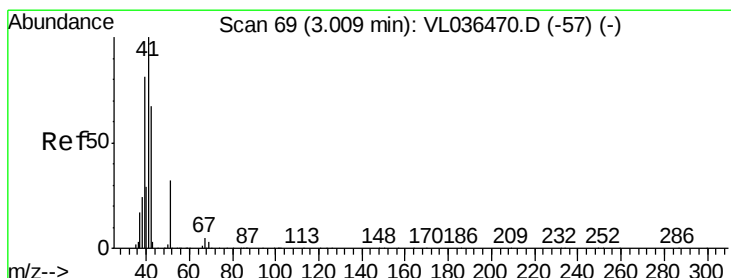
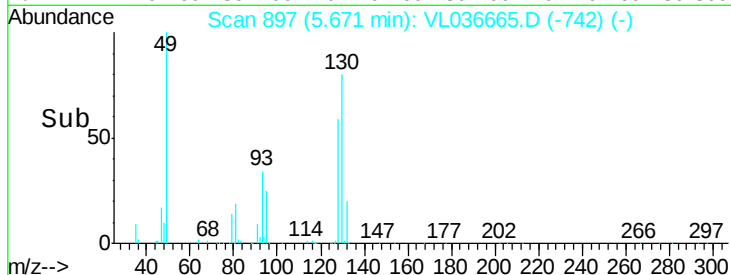
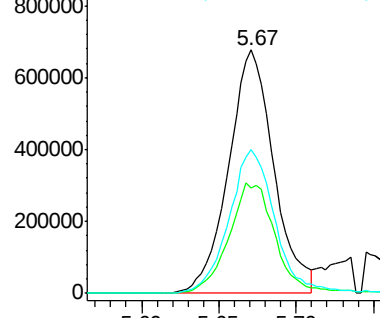
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 7.005 ppbv m

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL036665.D

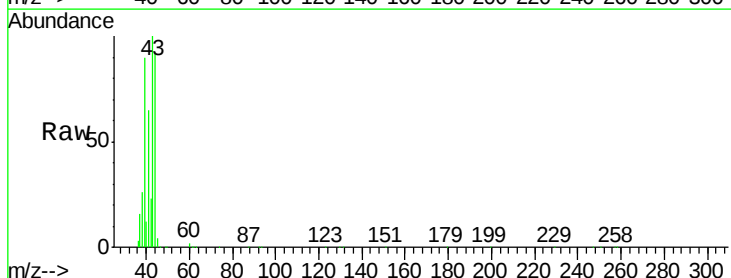
Acq: 3 Apr 2021 4:00

Tgt Ion: 41 Resp: 574845

Ion Ratio Lower Upper

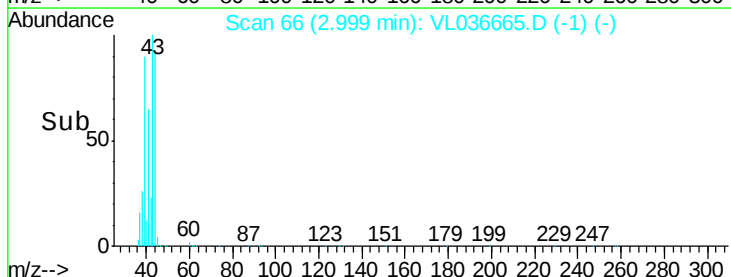
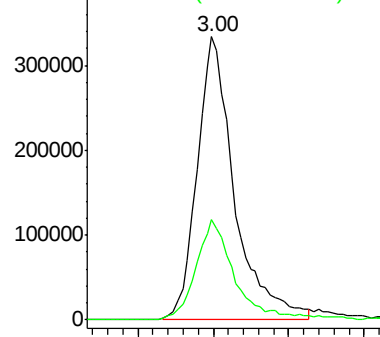
41 100

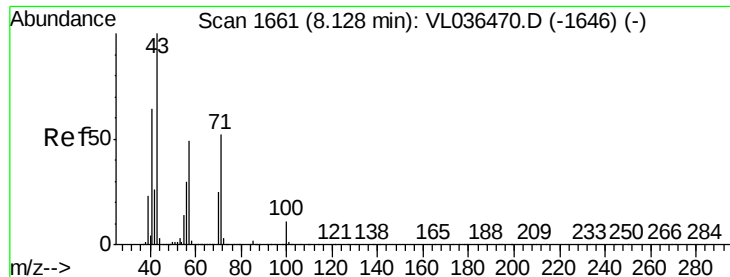
42 1800.5 57.0 85.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





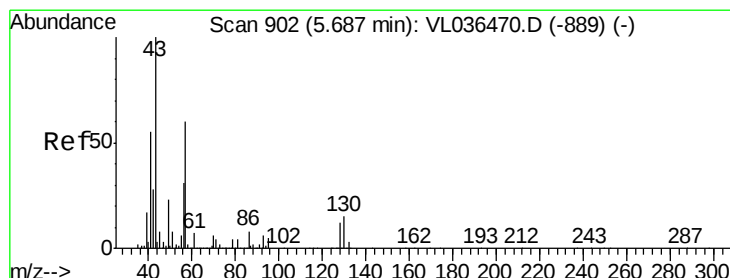
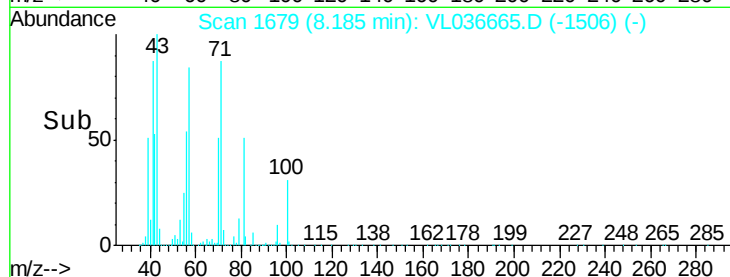
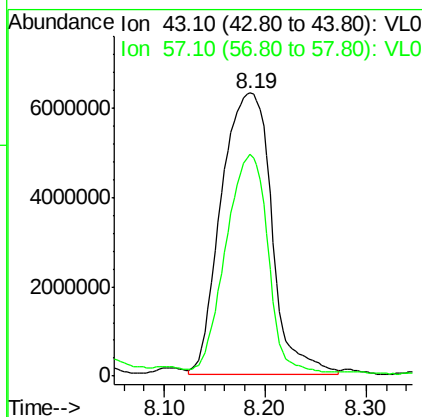
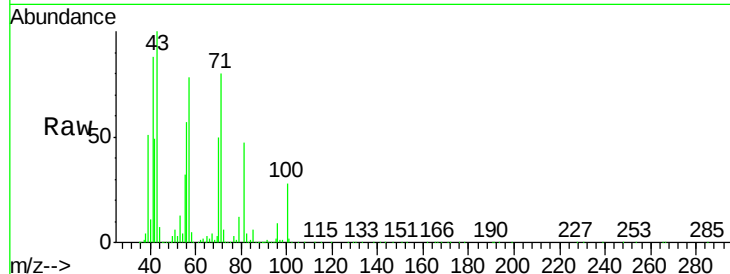
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Heptane
Concen: 104.762 ppbv
RT: 8.19 min Scan# 1679
Delta R.T. 0.06 min
Lab File: VL036665.D
Acq: 3 Apr 2021 4:00

Instrument :
MSVOA_L
ClientSampled :
SV4

Tot Ion: 43 Resp:21902230
Ion Ratio Lower Upper
43 100
57 63.5 39.0 58.6#

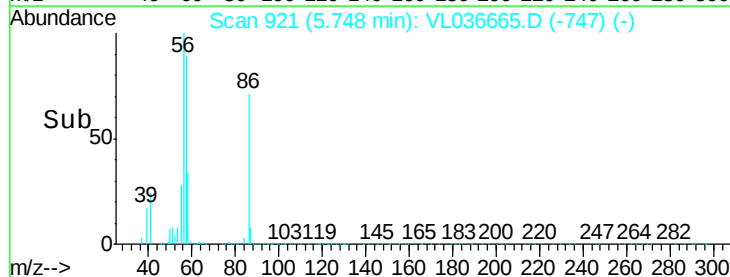
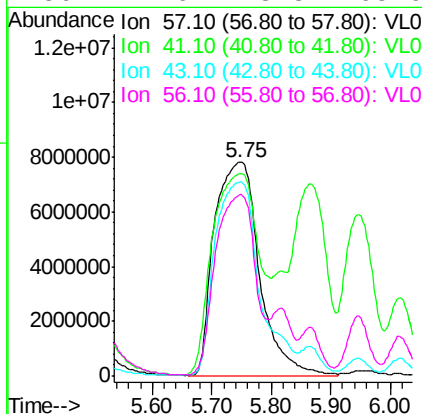
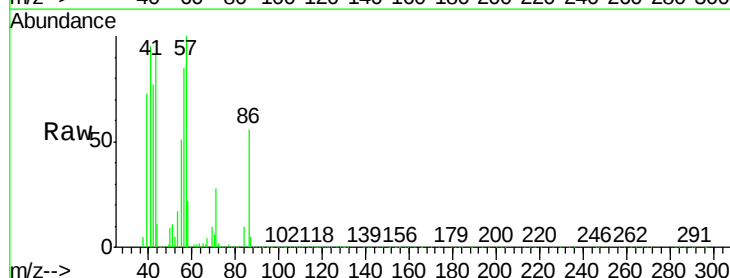
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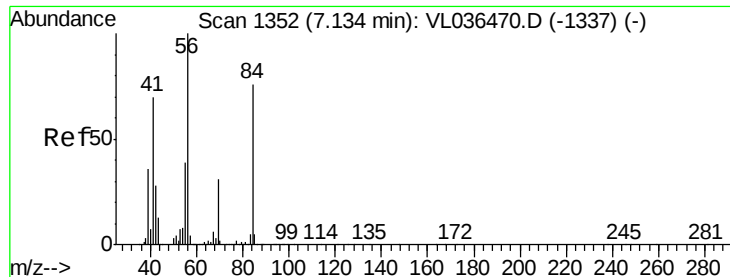
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#26
Hexane
Concen: 273.316 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.06 min
Lab File: VL036665.D
Acq: 3 Apr 2021 4:00

Tgt Ion: 57 Resp:40891875
Ion Ratio Lower Upper
57 100
41 99.7 77.2 115.8
43 90.2 173.8 260.6#
56 74.6 43.8 65.6#





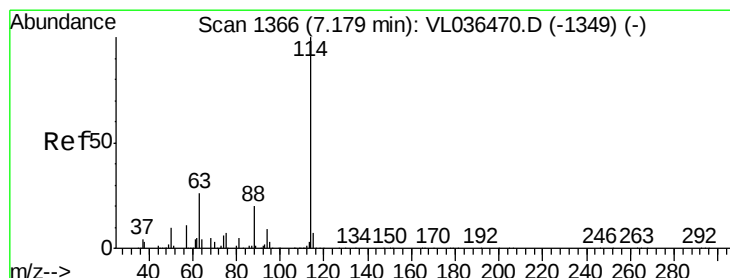
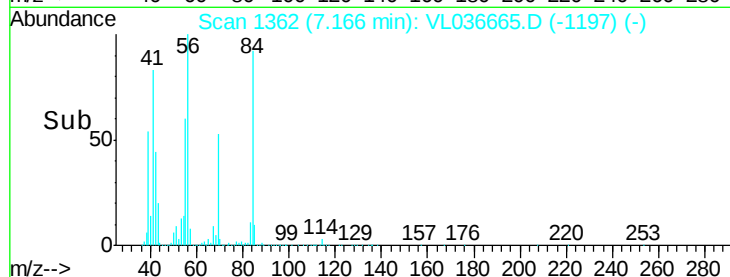
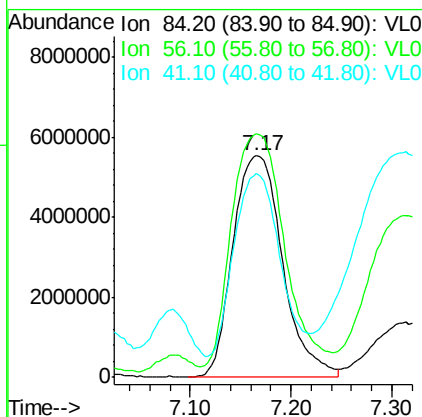
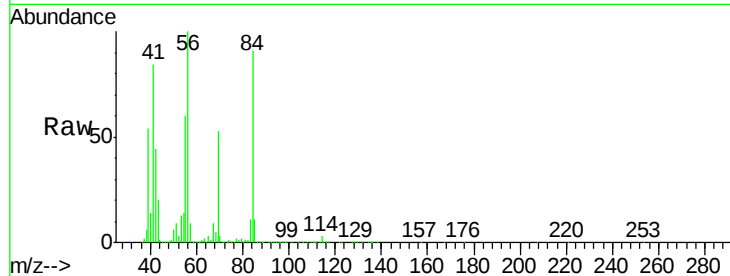
#30
Cvclohexane
Concen: 155.165 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. 0.03 min
Lab File: VL036665.D
Acq: 3 Apr 2021 4:00

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tot Ion: 84 Resp:18827484
Ion Ratio Lower Upper
84 100
56 111.0 114.6 171.8#
41 82.2 75.3 112.9

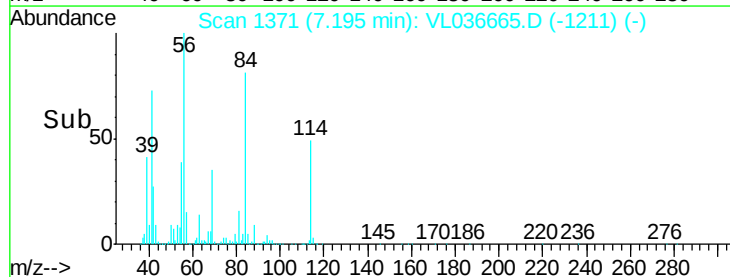
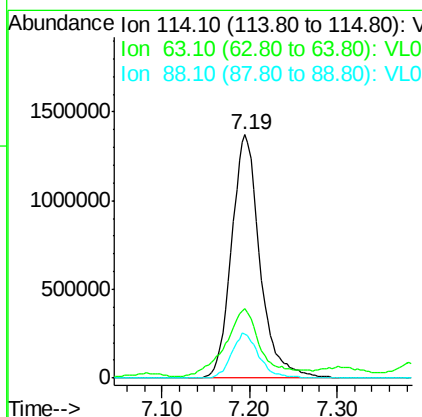
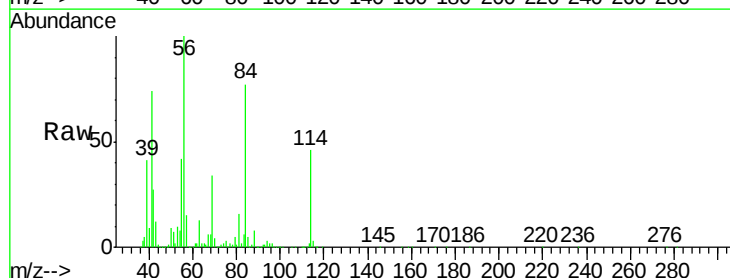
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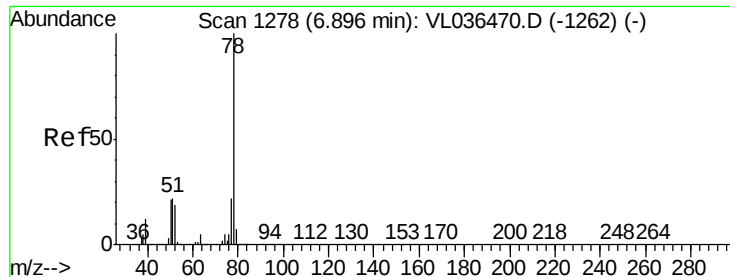
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. 0.02 min
Lab File: VL036665.D
Acq: 3 Apr 2021 4:00

Tgt Ion:114 Resp: 3089680
Ion Ratio Lower Upper
114 100
63 37.2 22.4 33.6#
88 18.1 15.4 23.0





#36

Benzene

Concen: 111.777 ppbv

RT: 6.92 min Scan# 1286

Delta R.T. 0.03 min

Lab File: VL036665.D

Acq: 3 Apr 2021 4:00

Instrument :

MSVOA_L

ClientSampleId :

SV4

Tot Ion: 78 Resp:31851058

Ion Ratio Lower Upper

78 100

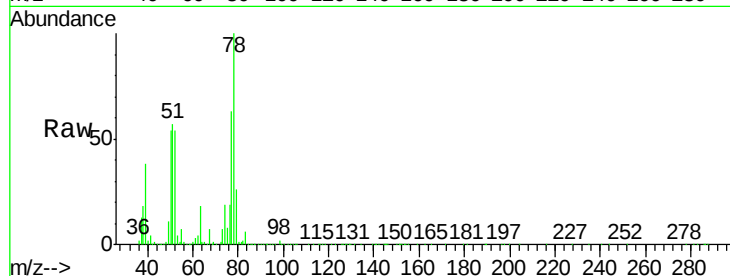
77 62.6 18.0 27.0#

50 54.2 16.5 24.7#

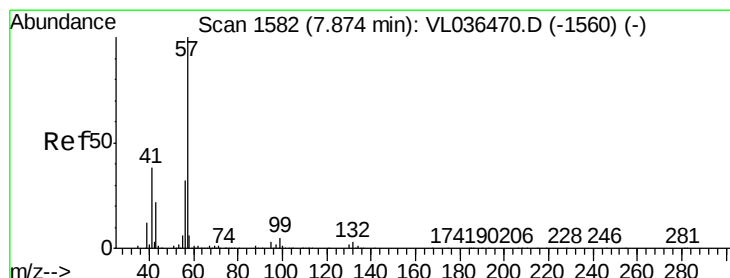
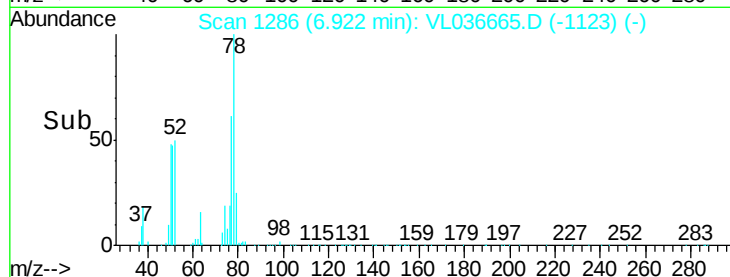
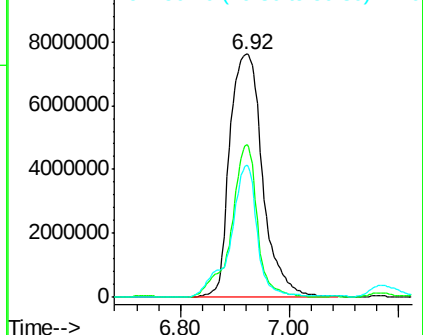
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Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 147.247 ppbv m

RT: 7.92 min Scan# 1598

Delta R.T. 0.05 min

Lab File: VL036665.D

Acq: 3 Apr 2021 4:00

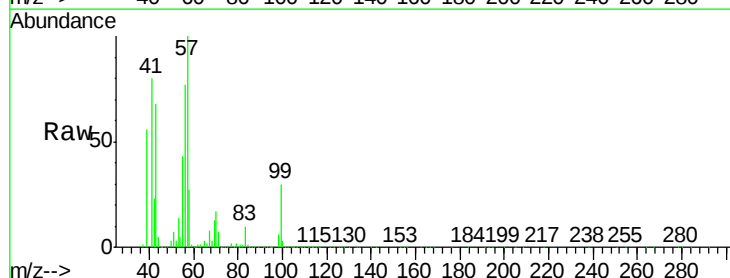
Tgt Ion: 57 Resp:73846379

Ion Ratio Lower Upper

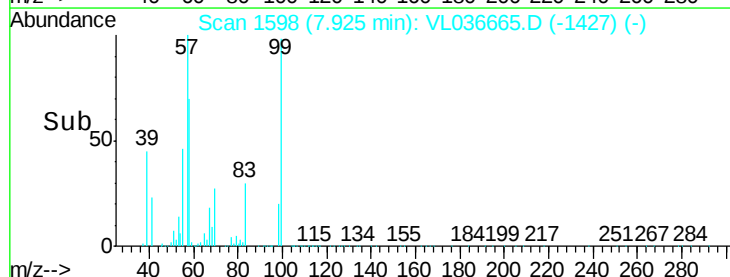
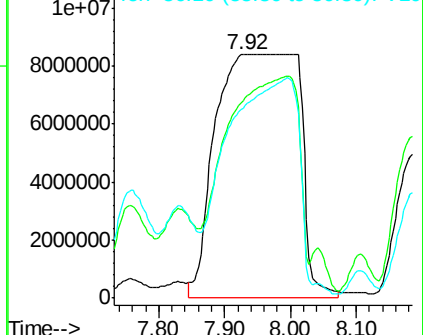
57 100

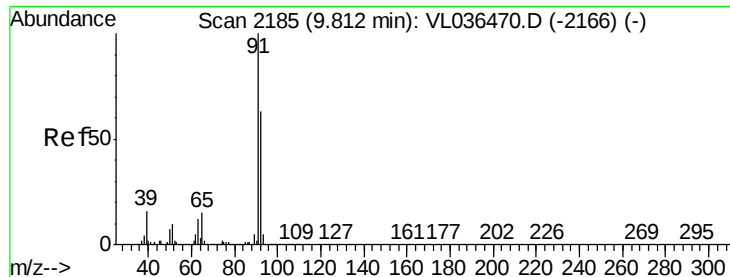
41 14.2 28.8 43.2#

56 12.8 26.1 39.1#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 72.410 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. 0.03 min

Lab File: VL036665.D

Acq: 3 Apr 2021 4:00

Instrument :

MSVOA_L

ClientSampled :

SV4

Tot Ion: 91 Resp: 21972940

Ion Ratio Lower Upper

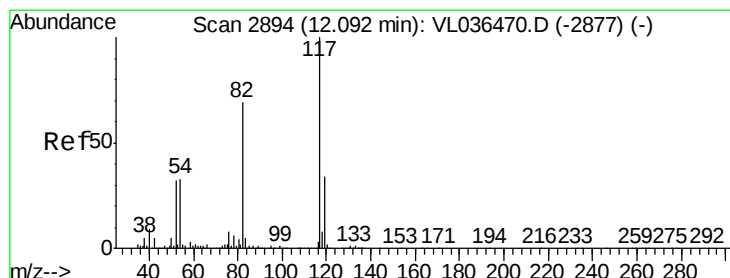
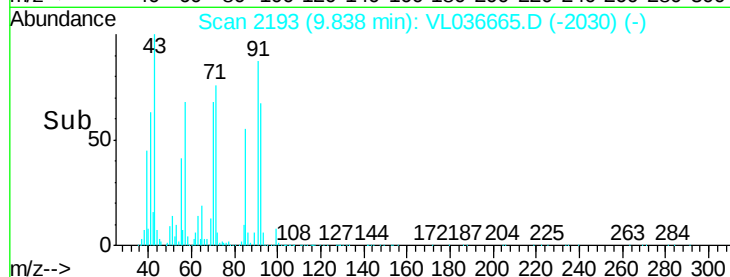
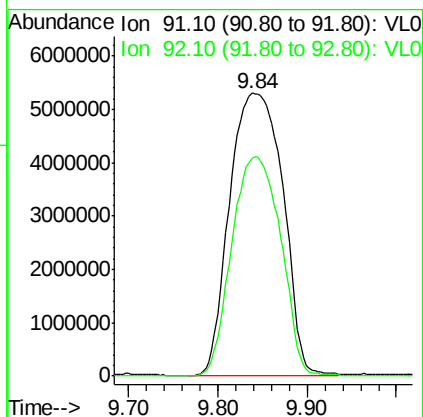
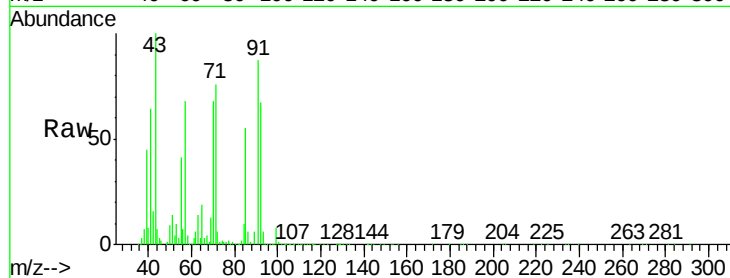
91 100

92 71.8 48.8 73.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL036665.D

Acq: 3 Apr 2021 4:00

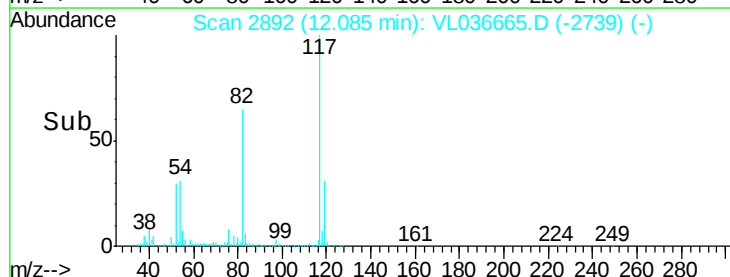
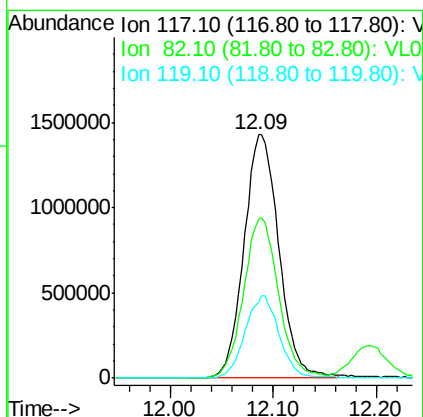
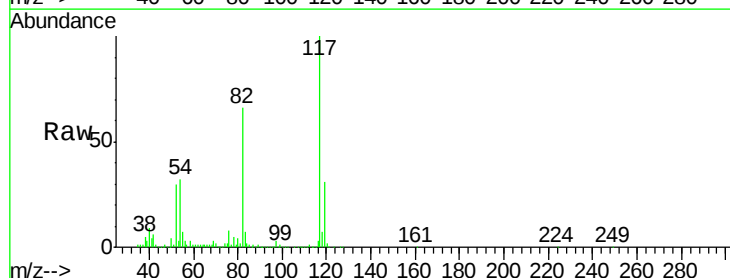
Tgt Ion: 117 Resp: 3355957

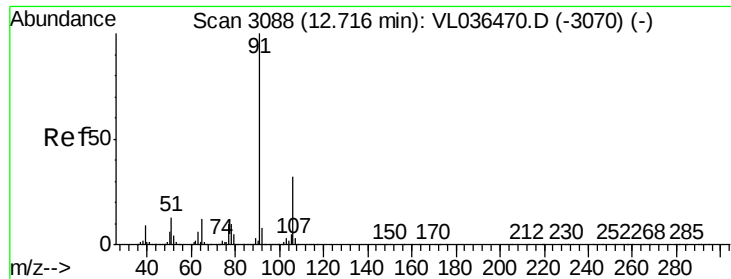
Ion Ratio Lower Upper

117 100

82 65.8 57.4 86.0

119 33.7 47.4 71.0#





#58

Ethyl Benzene

Concen: 16.040 ppbv

RT: 12.71 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL036665.D

Acq: 3 Apr 2021 4:00

Instrument :

MSVOA_L

ClientSampled :

SV4

Tot Ion: 91 Resp: 7831609

Ion Ratio Lower Upper

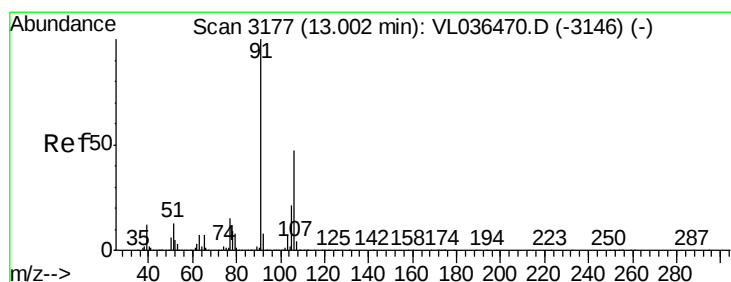
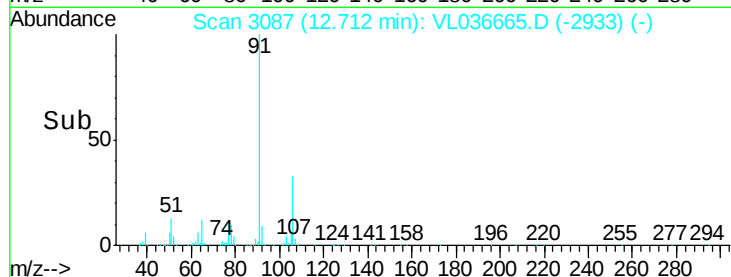
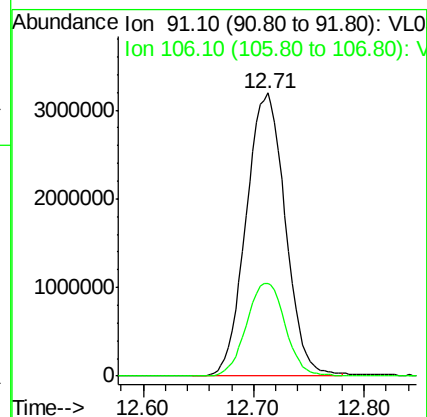
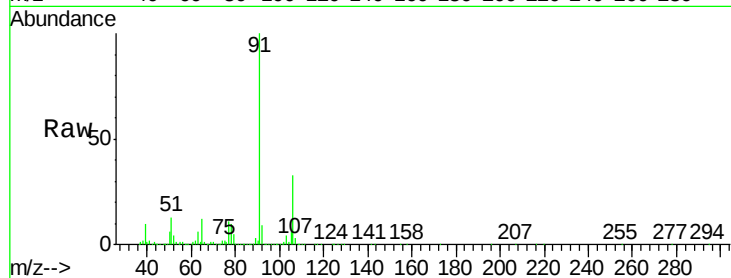
91 100

106 32.7 25.3 37.9

Manual Integrations
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#59

m/p-Xylene

Concen: 19.394 ppbv

RT: 12.96 min Scan# 3165

Delta R.T. -0.04 min

Lab File: VL036665.D

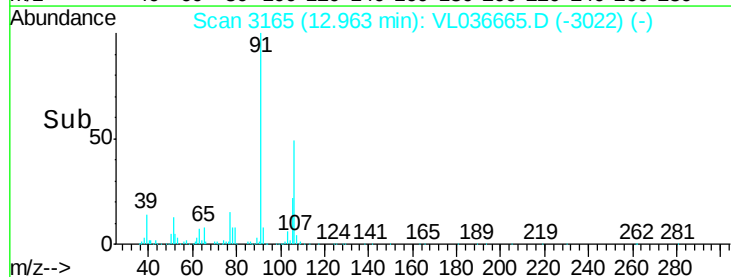
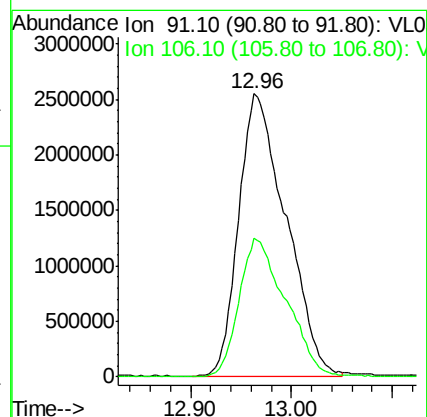
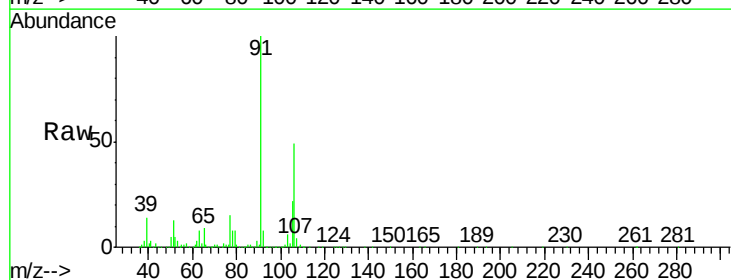
Acq: 3 Apr 2021 4:00

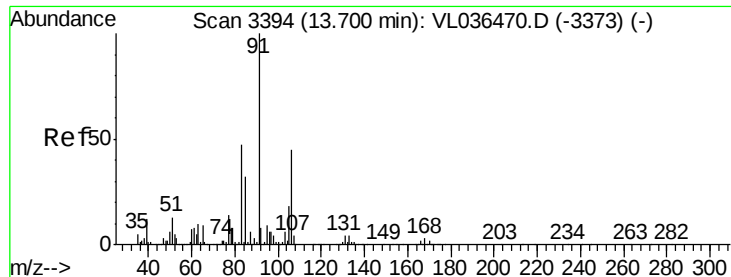
Tgt Ion: 91 Resp: 8259181

Ion Ratio Lower Upper

91 100

106 48.6 35.3 52.9





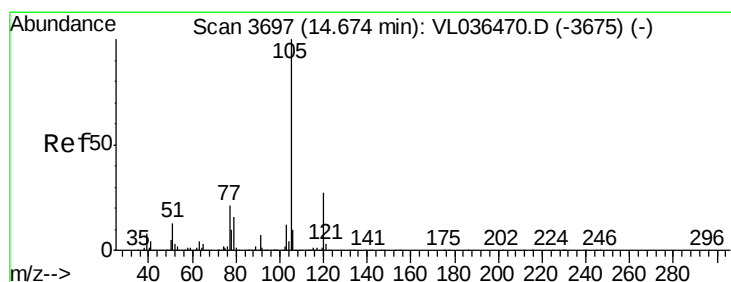
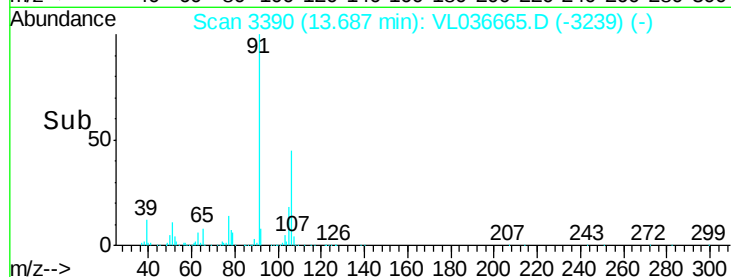
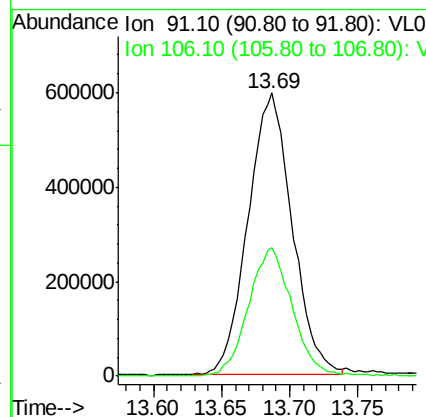
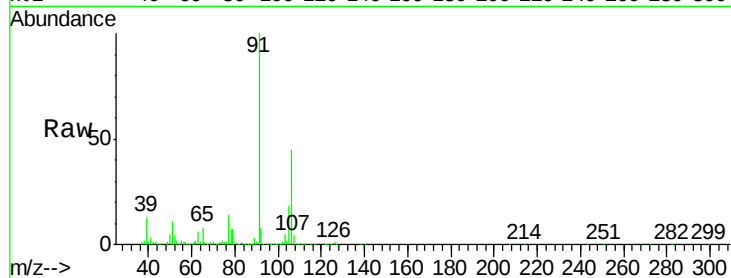
#60
o-Xylene
Concen: 3.254 ppbv
RT: 13.69 min Scan# 3390
Delta R.T. -0.01 min
Lab File: VL036665.D
Acq: 3 Apr 2021 4:00

Instrument :
MSVOA_L
ClientSampled :
SV4

Tot Ion: 91 Resp: 1339913
Ion Ratio Lower Upper
91 100
106 45.2 22.3 66.9

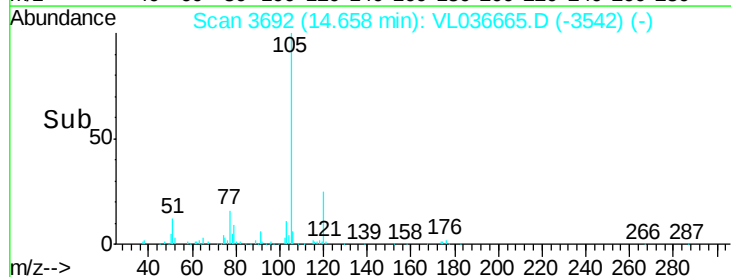
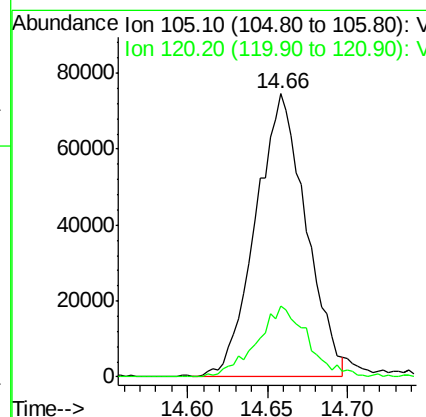
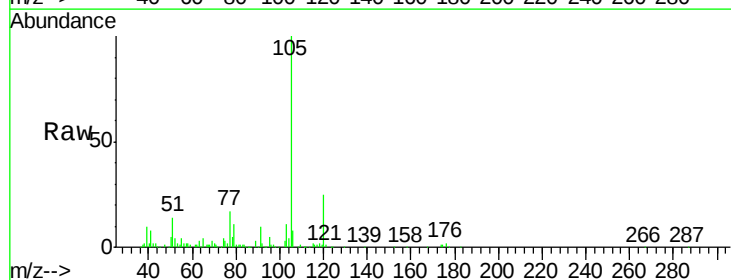
Manual Integrations
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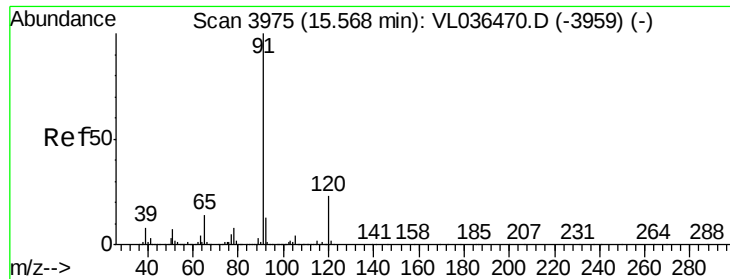
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#62
Isopropylbenzene
Concen: 0.291 ppbv
RT: 14.66 min Scan# 3692
Delta R.T. -0.02 min
Lab File: VL036665.D
Acq: 3 Apr 2021 4:00

Tgt Ion: 105 Resp: 161184
Ion Ratio Lower Upper
105 100
120 26.2 20.6 31.0





#64

n-propylbenzene

Concen: 0.104 ppbv m

RT: 15.55 min Scan# 3969

Delta R.T. -0.02 min

Lab File: VL036665.D

Acq: 3 Apr 2021 4:00

Instrument :

MSVOA_L

ClientSampled :

SV4

Tot Ion:120 Resp: 14161

Ion Ratio Lower Upper

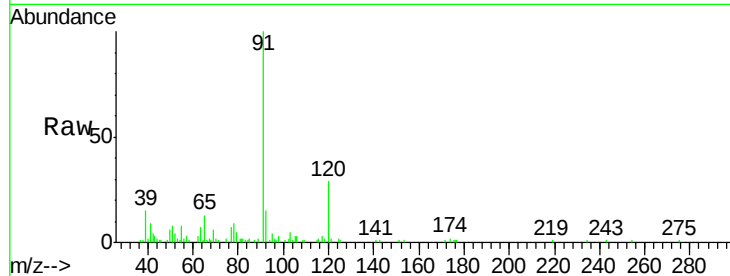
120 100

91 21.0 377.4 566.2#

Manual Integrations
APPROVED

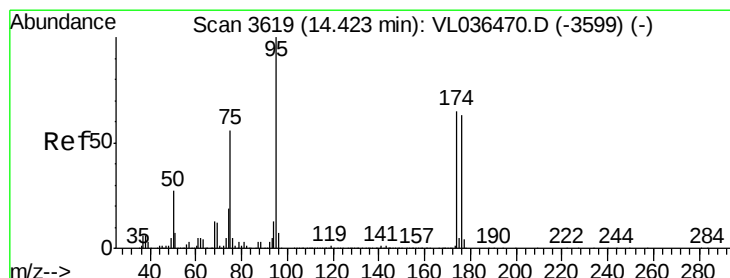
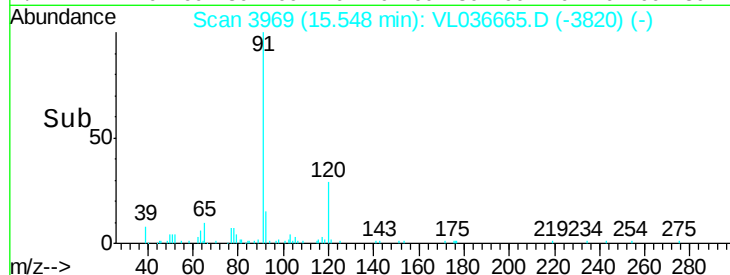
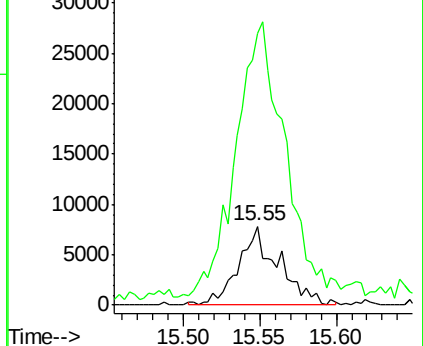
apatel

4/5/2021 1:14:24 PM



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 9.813 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.02 min

Lab File: VL036665.D

Acq: 3 Apr 2021 4:00

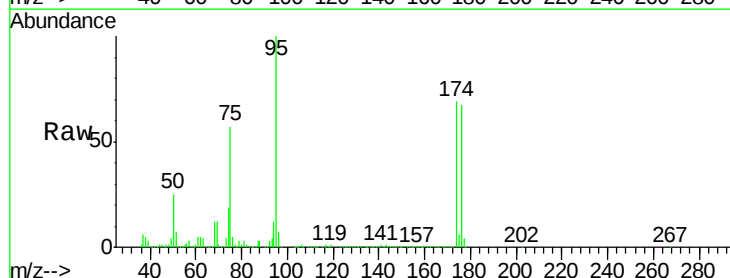
Tgt Ion: 95 Resp: 2624745

Ion Ratio Lower Upper

95 100

174 70.5 51.0 76.6

175 5.6 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

