

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111021\
 Data File : VL038011.D
 Acq On : 10 Nov 2021 16:09
 Operator : SY/AP
 Sample : M4598-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 356-2DL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/11/2021
 Supervised By : Mahesh Dadoda 11/17/2021

Quant Time: Nov 11 19:58:12 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1529982	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4479474	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3934807	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2845826	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	753495m	2.645	ppbv	
9) Propene	3.01	41	190841	1.869	ppbv	88
13) Ethanol	3.60	45	155208	15.066	ppbv	95
15) Acetone	3.84	43	1575509	12.462	ppbv #	78
17) tert-Butyl alcohol	4.29	59	75338m	0.573	ppbv	
19) Isopropyl Alcohol	3.97	45	109567	1.355	ppbv #	1
22) trans-1,2-Dichloroethene	4.88	96	89281	1.167	ppbv	96
27) Carbon Disulfide	4.55	76	145852	0.830	ppbv	95
31) cis-1,2-Dichloroethene	5.54	61	25206m	0.155	ppbv	
34) 2-Butanone	5.24	43	951401	5.732	ppbv	98
38) Trichloroethene	7.83	130	247669	1.636	ppbv	90
51) 2-Hexanone	10.13	43	58079m	0.632	ppbv	
52) Tetrachloroethene	11.21	164	632635	4.572	ppbv	97
53) Toluene	9.79	91	412496	1.055	ppbv	99
58) Ethyl Benzene	12.69	91	83500m	0.174	ppbv	
59) m/p-Xylene	12.95	91	256651m	0.600	ppbv	
60) o-Xylene	13.68	91	95558	0.237	ppbv	96
74) 1,2,4-Trimethylbenzene	16.75	105	60870m	0.134	ppbv	

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

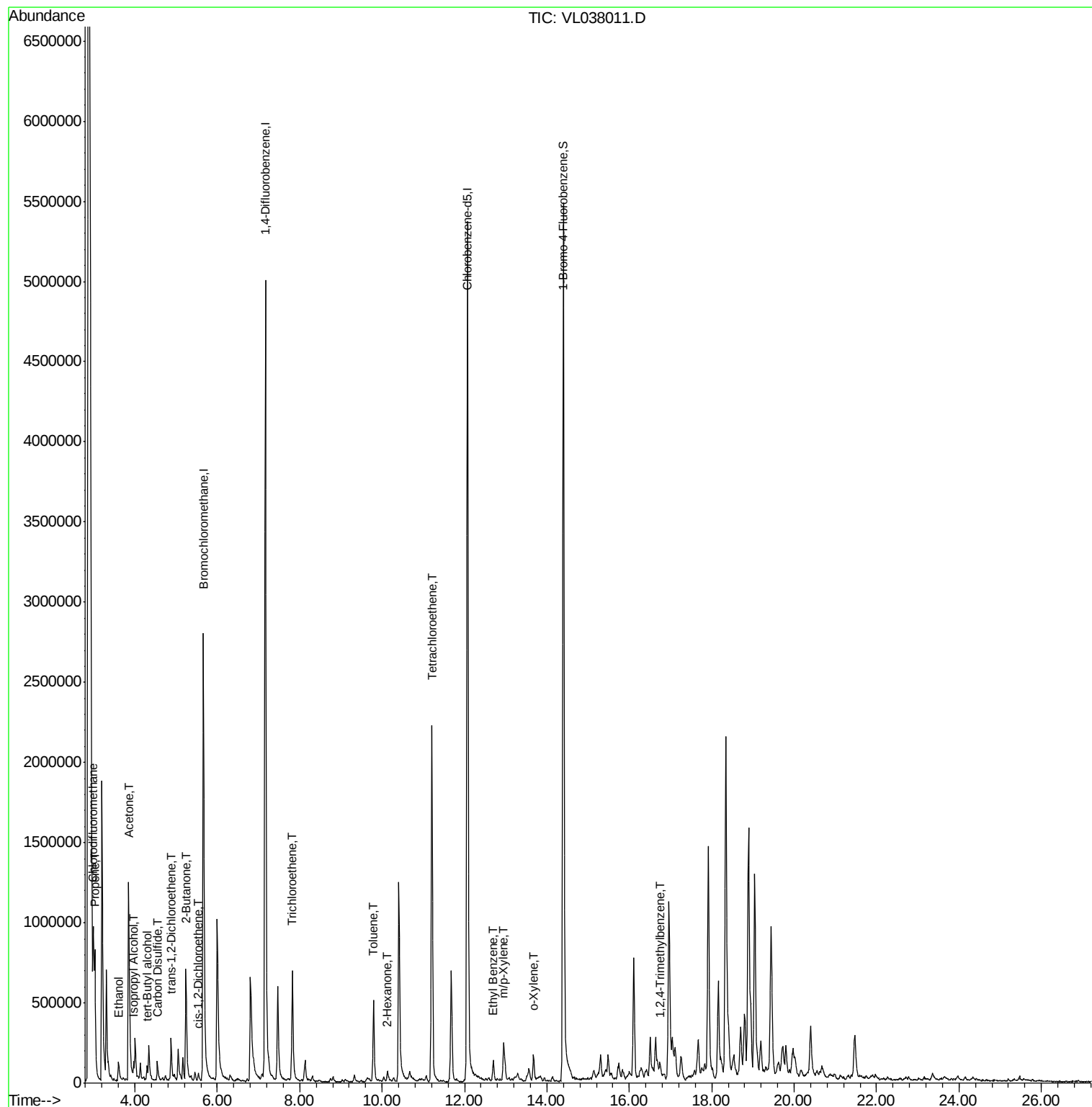
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111021\
Data File : VL038011.D
Acq On : 10 Nov 2021 16:09
Operator : SY/AP
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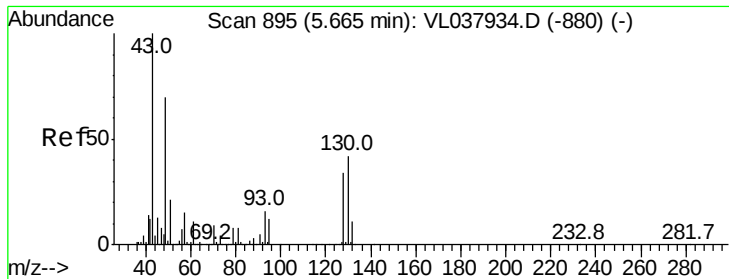
Instrument :
MSVOA_L
ClientSampleId :
356-2DL

Manual Integrations
APPROVED

Quant Time: Nov 11 19:58:12 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110121
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Tue Nov 02 05:54:07 2021
Response via : Initial Calibration

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 356-2DL

Acq: 10 Nov 2021 16:09

Tot Ion:

Ion Ratio

49 100

128 52.

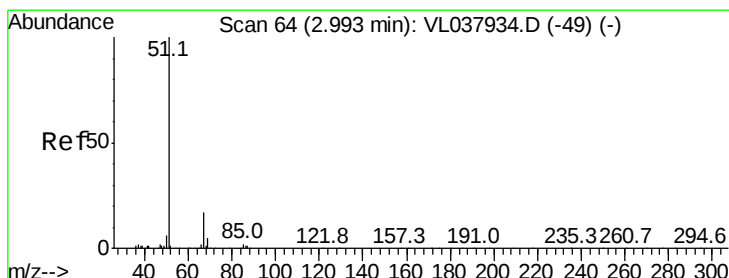
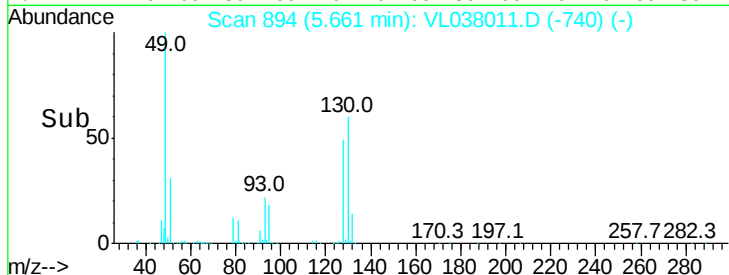
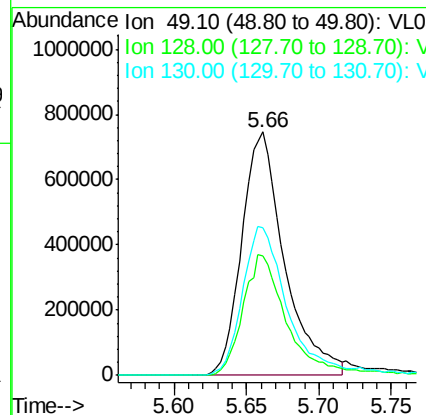
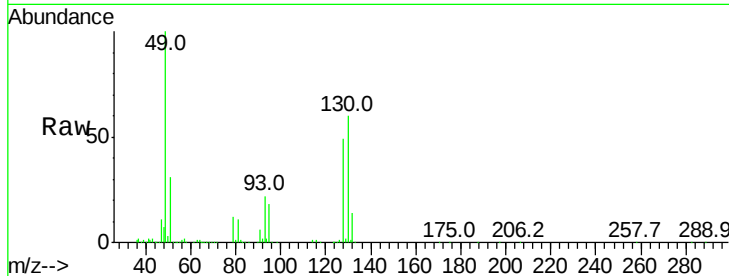
130 67.

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 11/17/2021



#3

Chlorodifluoromethane

Concen: 2.645 ppbv m

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL038011.D

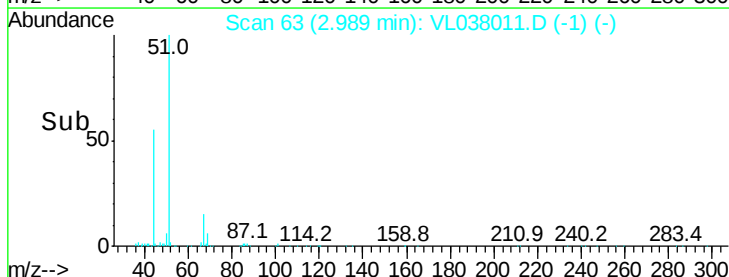
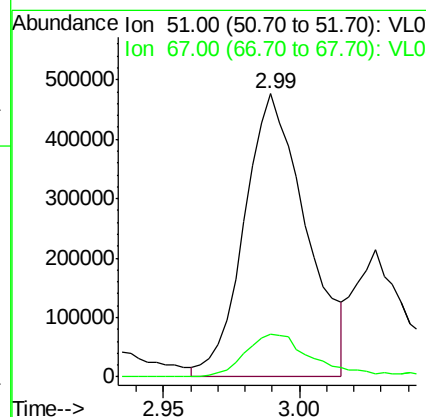
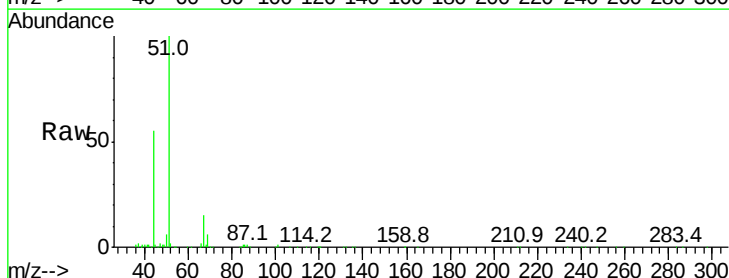
Acq: 10 Nov 2021 16:09

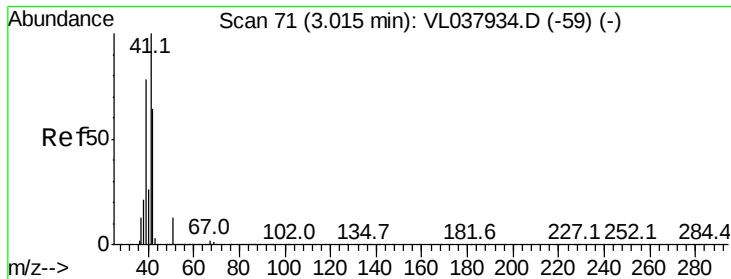
Tgt Ion: 51 Resp: 753495

Ion Ratio Lower Upper

51 100

67 17.4 13.4 20.0





#9

Propene

Concen: 1.869 ppbv

RT: 3.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 16:09

Tot Ion:

Ion Ratio

41 100

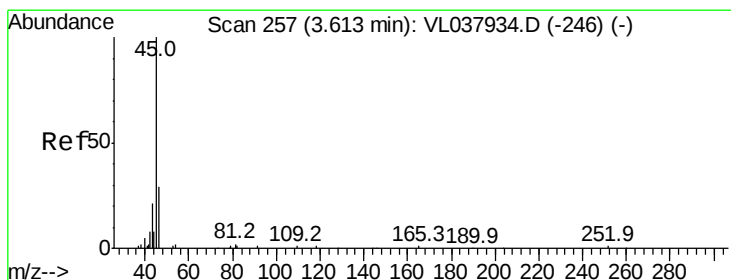
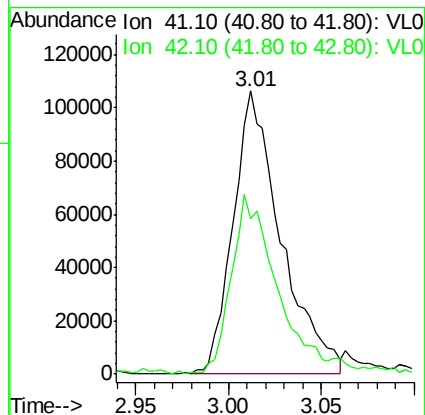
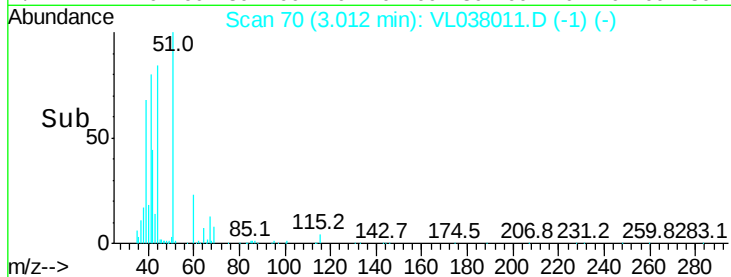
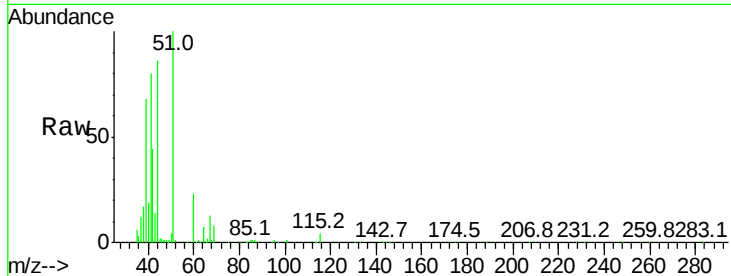
42 62.

Manual Integrations

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#13

Ethanol

Concen: 15.066 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL038011.D

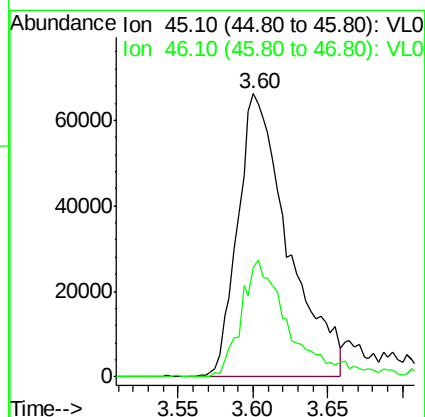
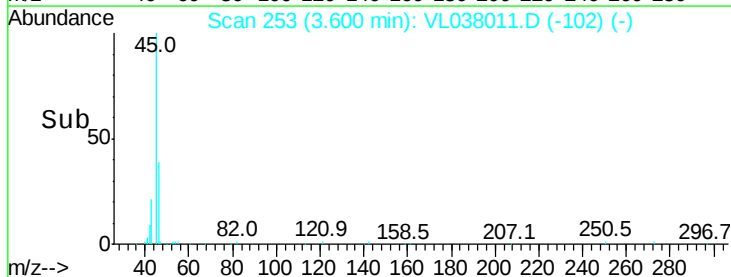
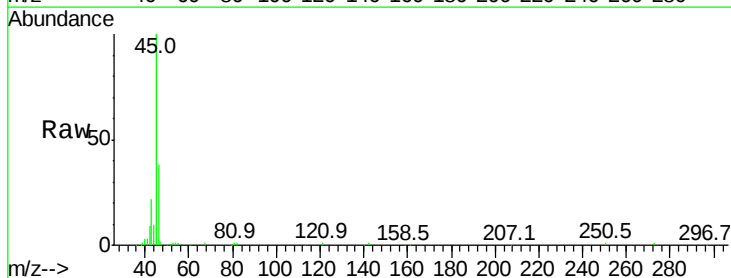
Acq: 10 Nov 2021 16:09

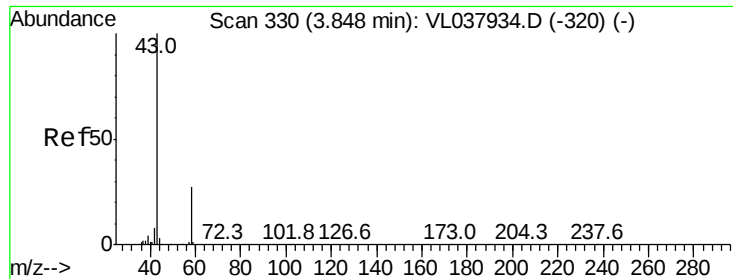
Tgt Ion: 45 Resp: 155208

Ion Ratio Lower Upper

45 100

46 40.5 17.4 69.8





#15

Acetone

Concen: 12.462 ppbv

RT: 3.84 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 10 Nov 2021 16:09 356-2DL

Tot Ion:

Ion Ratio

43 100

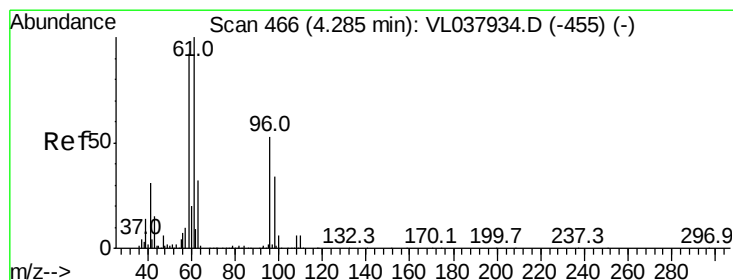
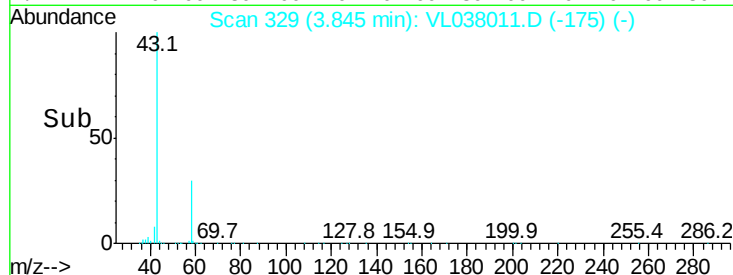
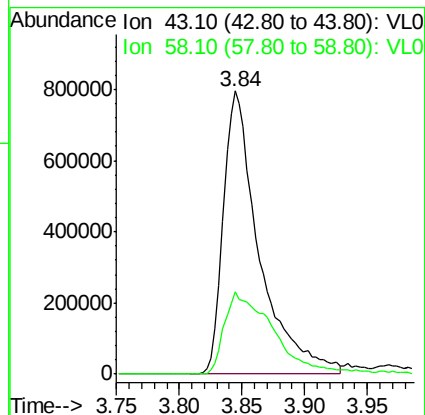
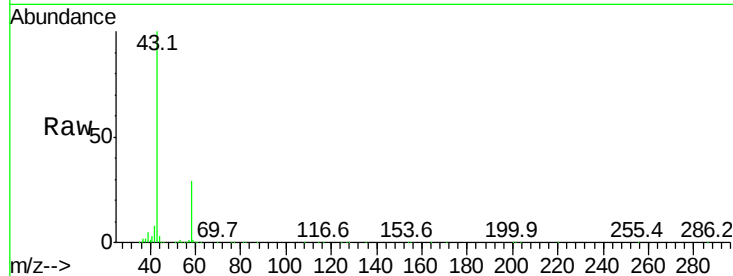
58 40.

Manual Integrations

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#17

tert-Butyl alcohol

Concen: 0.573 ppbv m

RT: 4.29 min Scan# 469

Delta R.T. 0.01 min

Lab File: VL038011.D

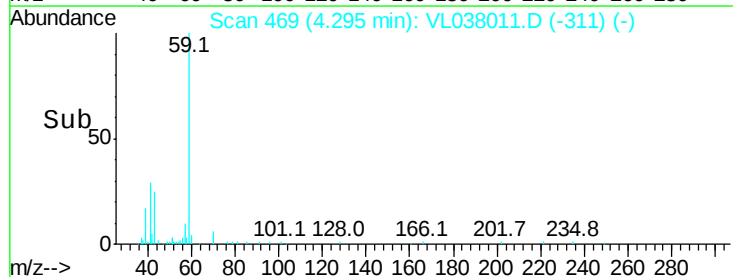
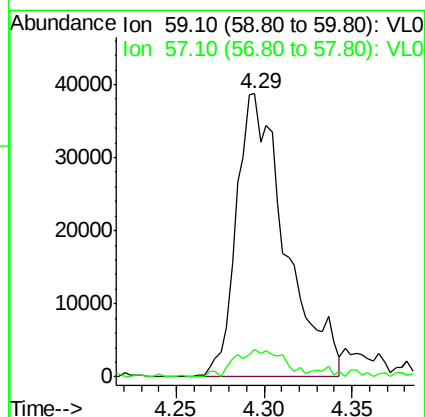
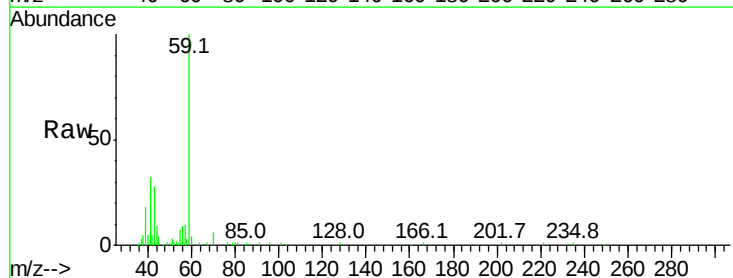
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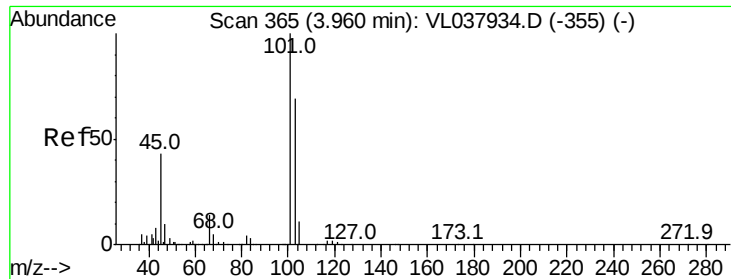
Tgt Ion: 59 Resp: 75338

Ion Ratio Lower Upper

59 100

57 9.5 8.9 13.3





#19

Isopropyl Alcohol

Concen: 1.355 ppbv

RT: 3.97

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 16:09

Tot Ion:

Ion Ratio

45 100

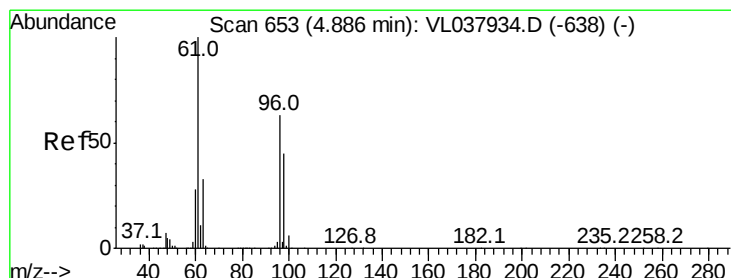
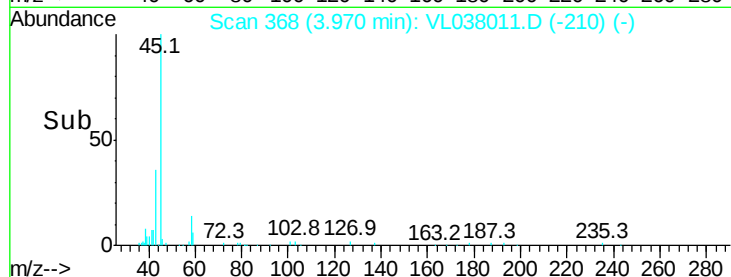
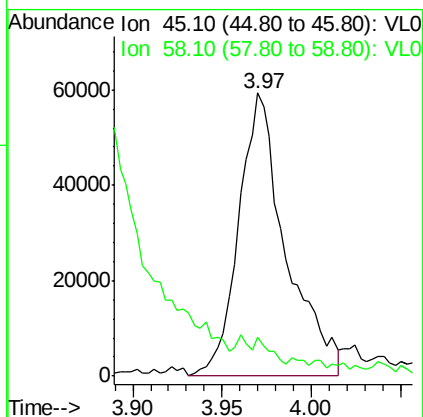
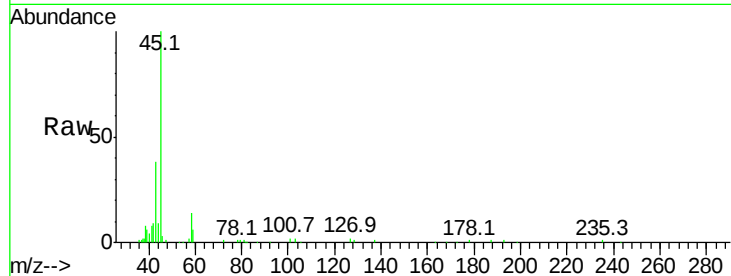
58 584.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021



#22

trans-1,2-Dichloroethene

Concen: 1.167 ppbv

RT: 4.88 min Scan# 651

Delta R.T. -0.01 min

Lab File: VL038011.D

Acq: 10 Nov 2021 16:09

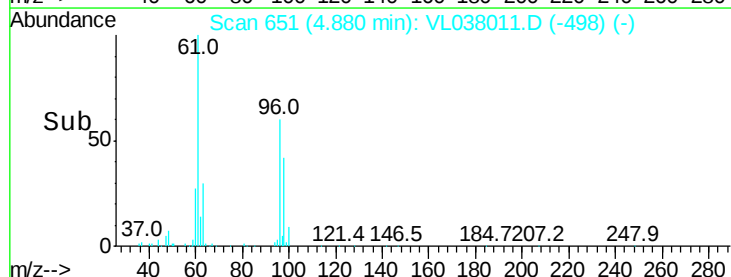
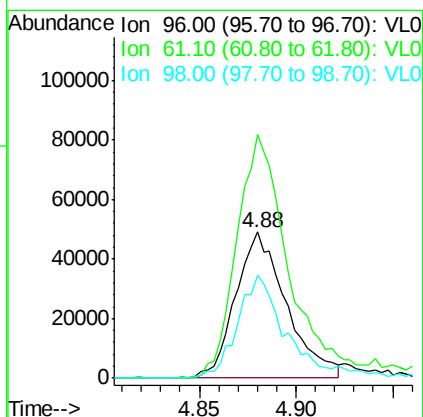
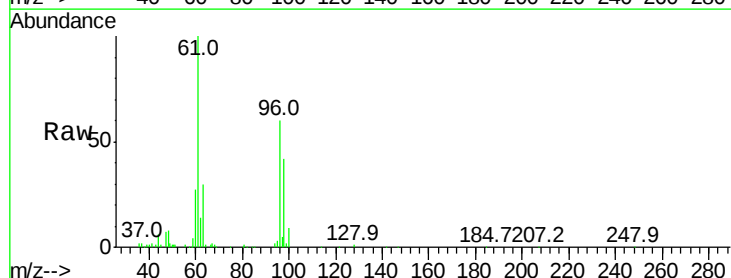
Tgt Ion: 96 Resp: 89281

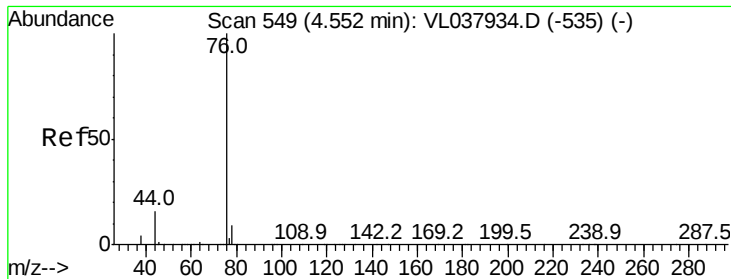
Ion Ratio Lower Upper

96 100

61 165.9 127.8 191.6

98 69.5 56.9 85.3





#27

Carbon Disulfide

Concen: 0.830 ppbv

RT: 4.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 10 Nov 2021 16:09

Tot Ion:

Ion Ratio

76 100

44 18.

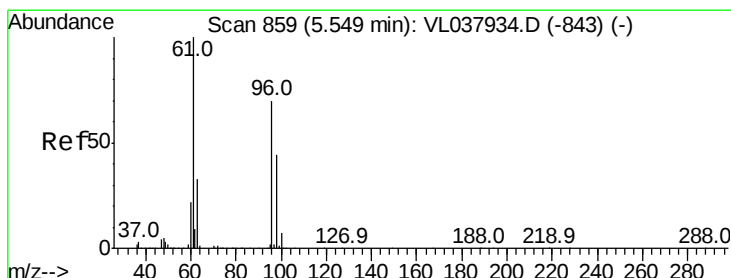
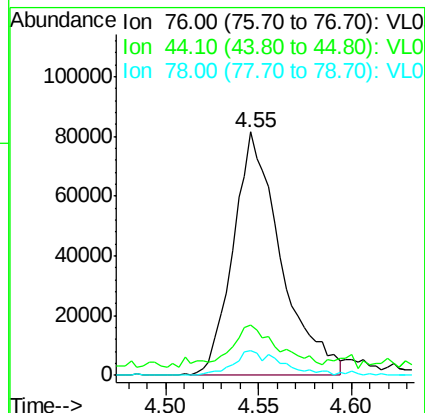
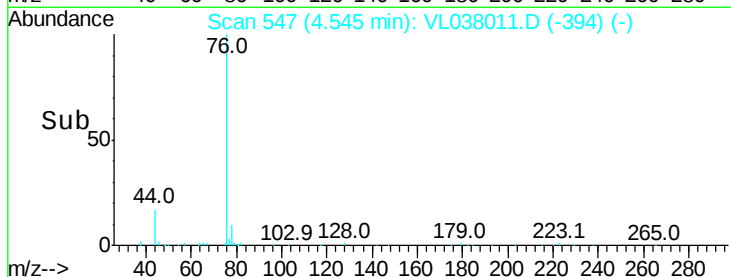
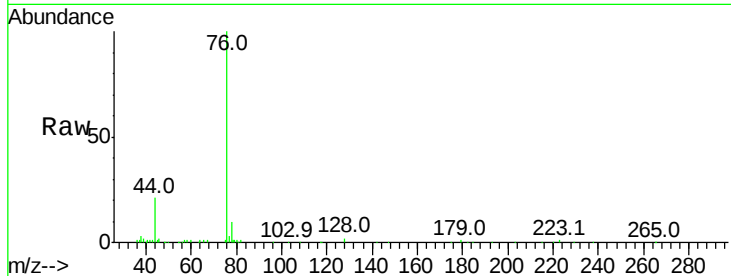
78 10.

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 11/17/2021



#31

cis-1,2-Dichloroethene

Concen: 0.155 ppbv m

RT: 5.54 min Scan# 856

Delta R.T. -0.01 min

Lab File: VL038011.D

Acq: 10 Nov 2021 16:09

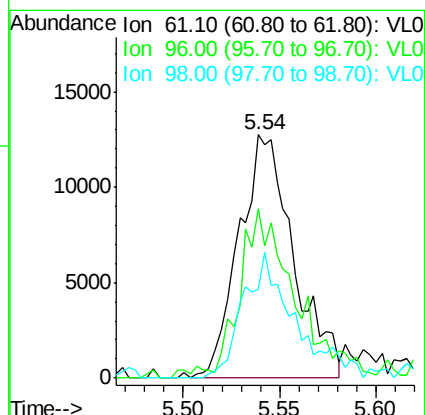
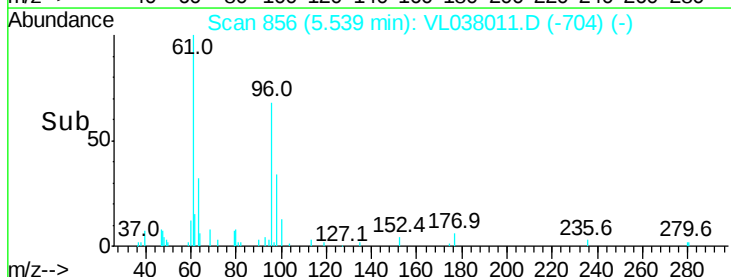
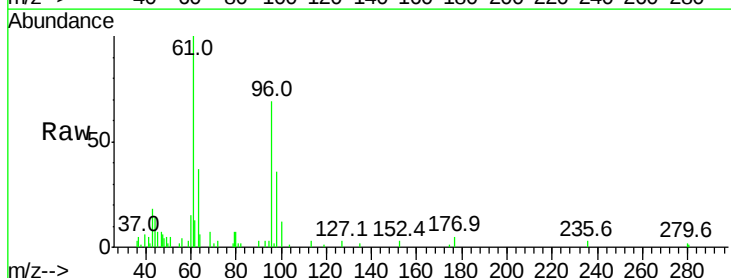
Tgt Ion: 61 Resp: 25206

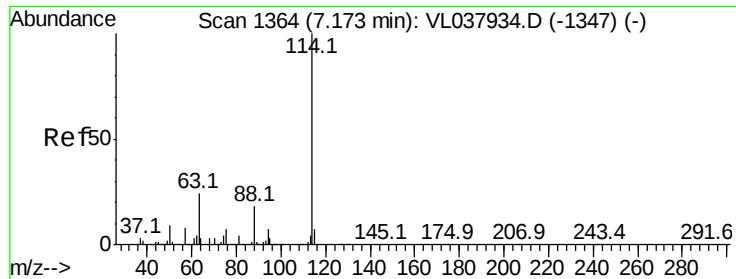
Ion Ratio Lower Upper

61 100

96 69.4 55.6 83.4

98 36.4 34.9 52.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 16:09

Tot Ion:1

Ion Rati

114 100

63 24.

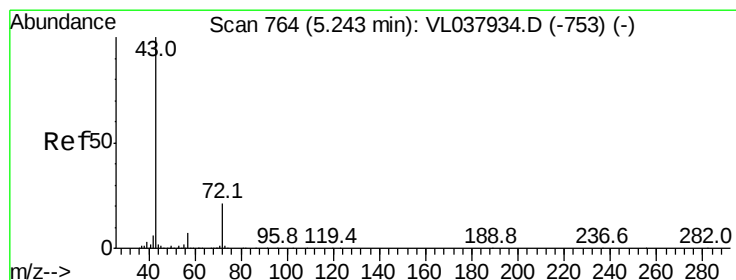
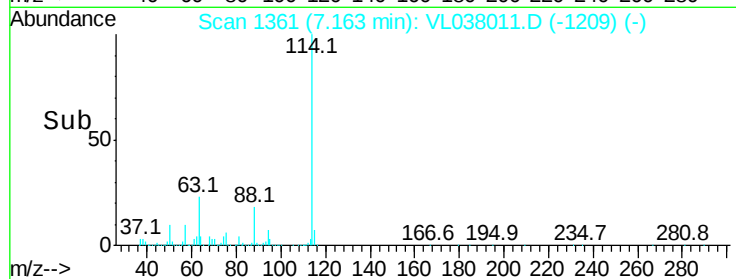
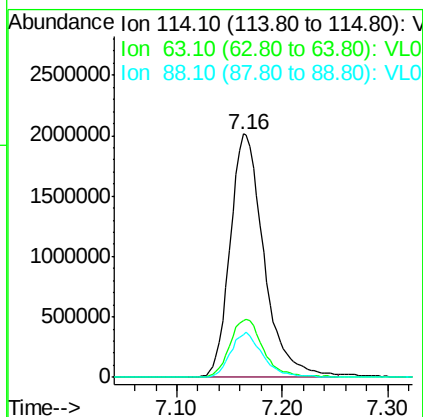
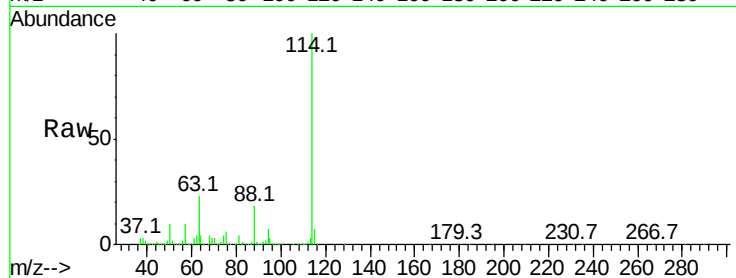
88 17.

Manual Integrations

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#34

2-Butanone

Concen: 5.732 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.01 min

Lab File: VL038011.D

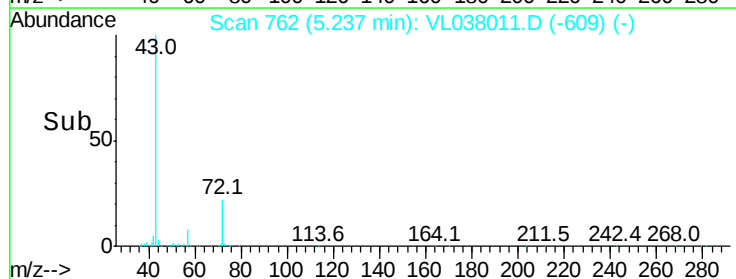
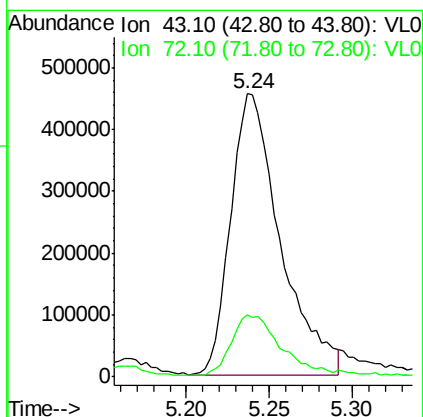
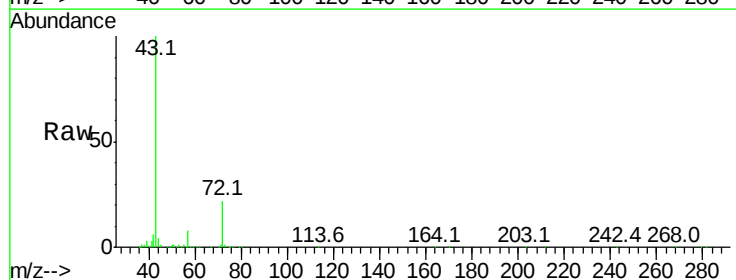
Acq: 10 Nov 2021 16:09

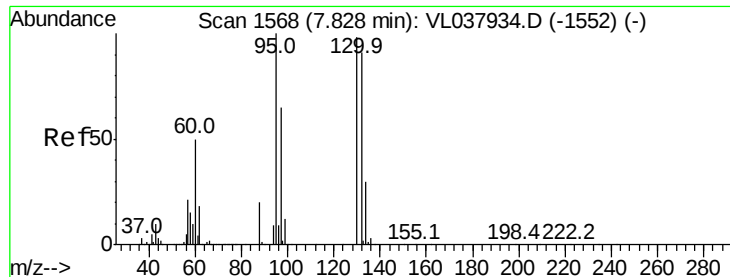
Tgt Ion: 43 Resp: 951401

Ion Ratio Lower Upper

43 100

72 24.1 18.3 27.5





#38

Trichloroethene

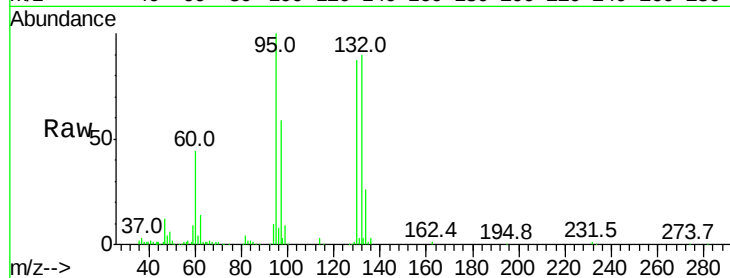
Concen: 1.636 ppbv

RT: 7.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 16:09



Tot Ion:1

Ion Ratio

130 100

95 115.

132 104.

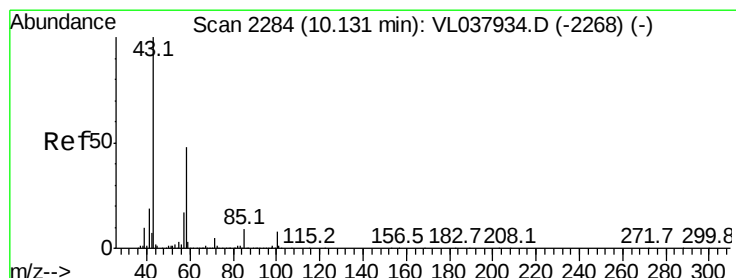
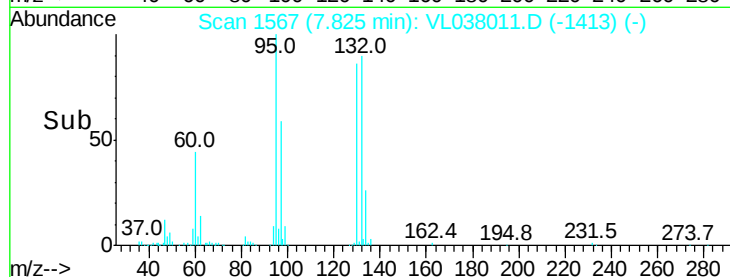
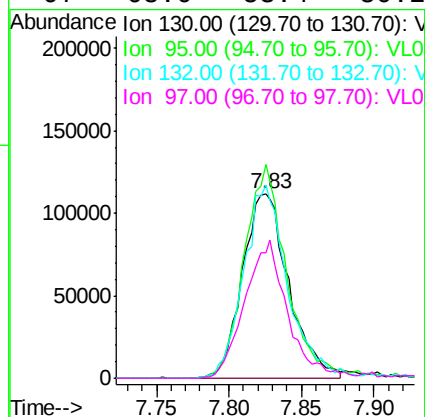
97 68.0 53.4 80.2

Manual Integrations

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#51

2-Hexanone

Concen: 0.632 ppbv m

RT: 10.13 min Scan# 2283

Delta R.T. -0.00 min

Lab File: VL038011.D

Acq: 10 Nov 2021 16:09

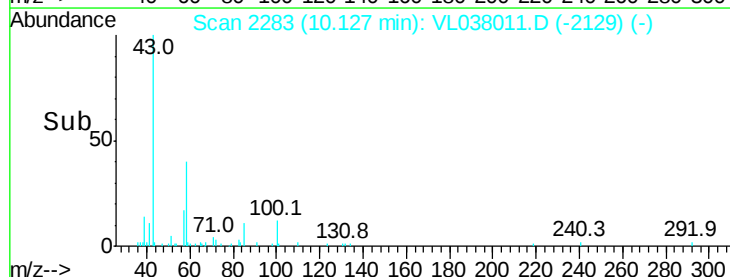
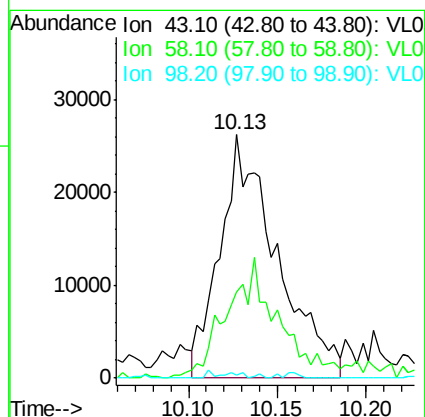
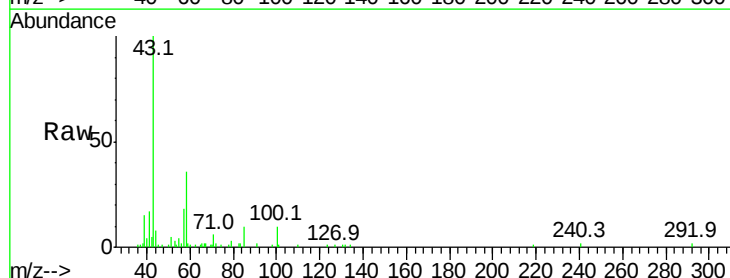
Tgt Ion: 43 Resp: 58079

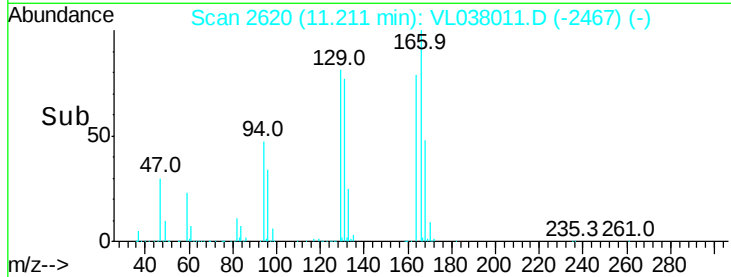
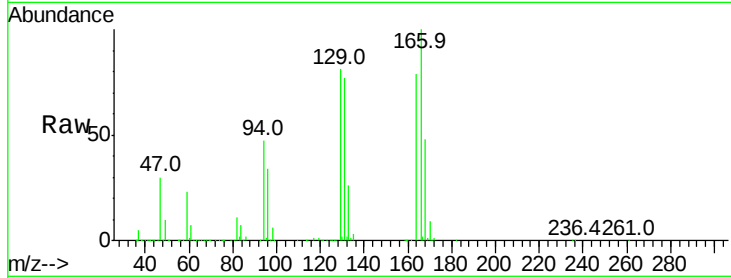
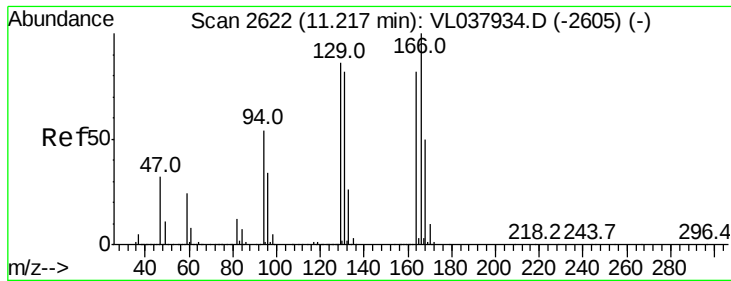
Ion Ratio Lower Upper

43 100

58 0.0 38.6 57.8#

98 1.3 1.0 1.4



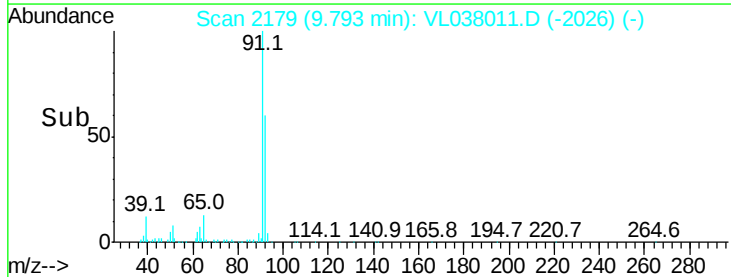
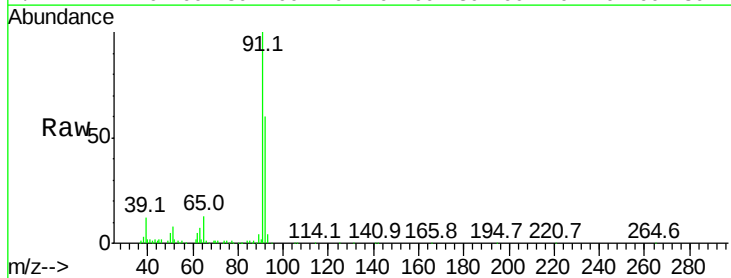
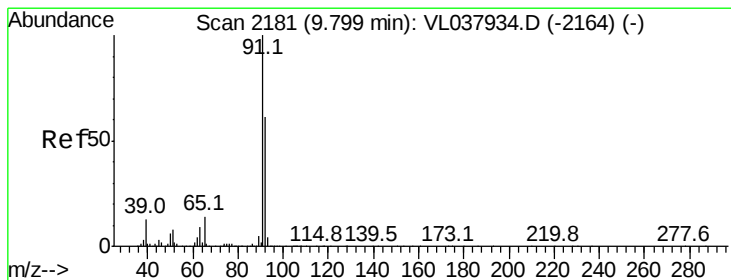
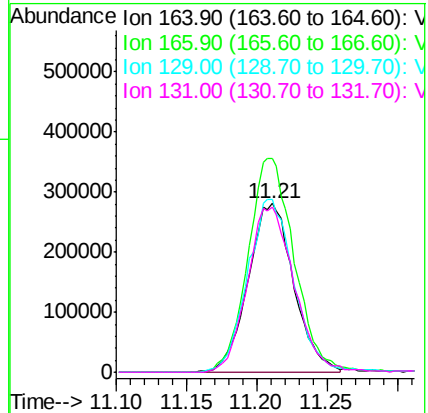


#52
Tetrachloroethene
Concen: 4.572 ppbv
RT: 11.21 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 10 Nov 2021 16:09

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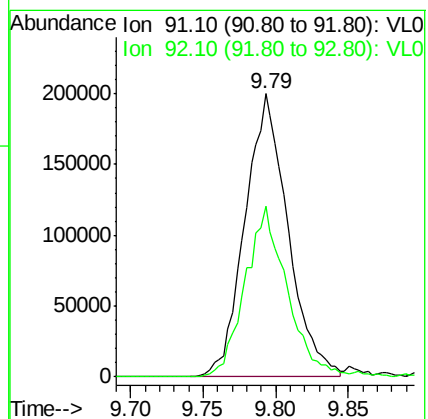
Reviewed By :Semsettin Yesilyurt 11/11/2021
Supervised By :Mahesh Dadoda 11/17/2021

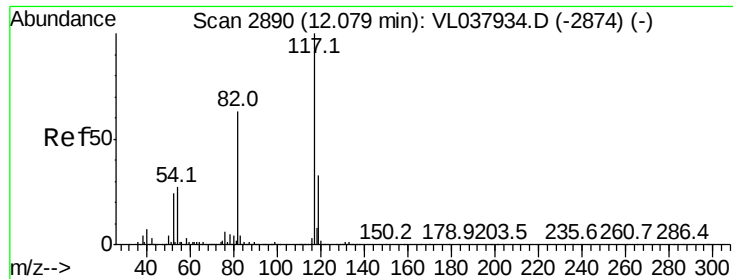
Tot Ion:1
Ion Ratio
164 100
166 126.
129 102.
131 98.2 79.6 119.4



#53
Toluene
Concen: 1.055 ppbv
RT: 9.79 min Scan# 2179
Delta R.T. -0.01 min
Lab File: VL038011.D
Acq: 10 Nov 2021 16:09

Tgt Ion: 91 Resp: 412496
Ion Ratio Lower Upper
91 100
92 59.9 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 16:09

Tot Ion:1

Ion Rati

117 100

82 63.

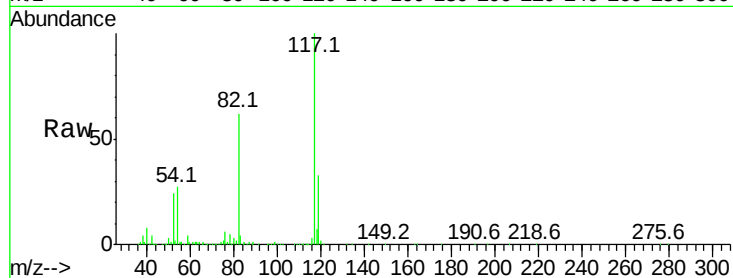
119 33.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/11/2021

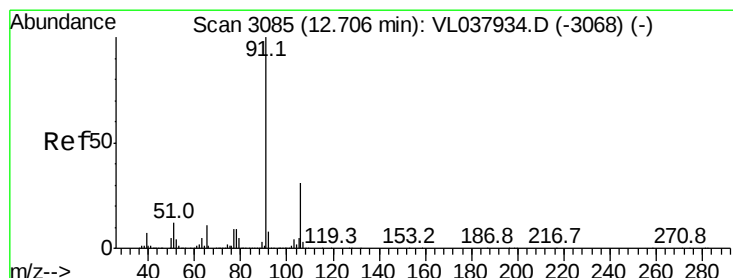
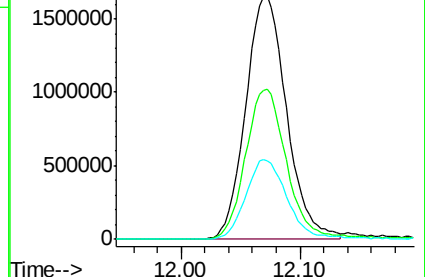
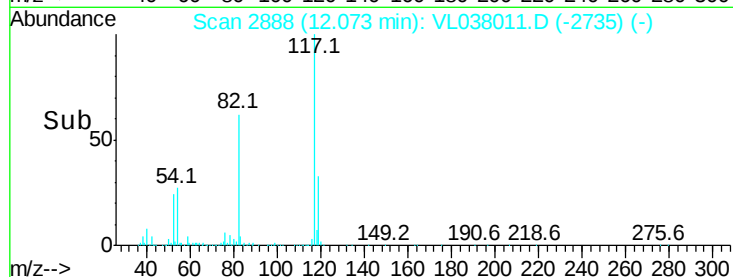
Supervised By :Mahesh Dadoda 11/17/2021



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.174 ppbv m

RT: 12.69 min Scan# 3081

Delta R.T. -0.01 min

Lab File: VL038011.D

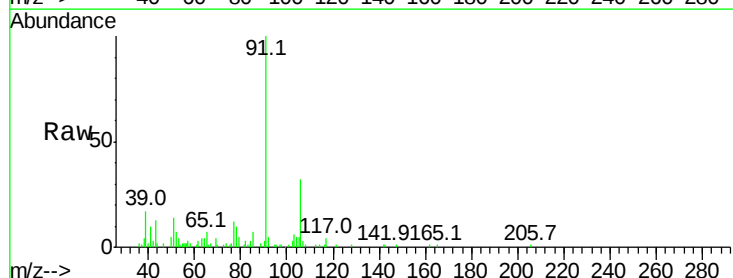
Acq: 10 Nov 2021 16:09

Tgt Ion: 91 Resp: 83500

Ion Ratio Lower Upper

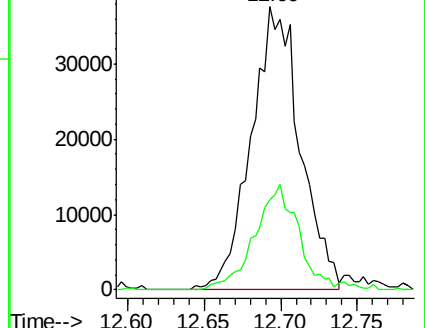
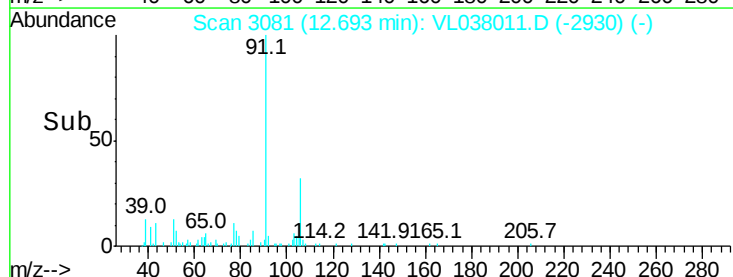
91 100

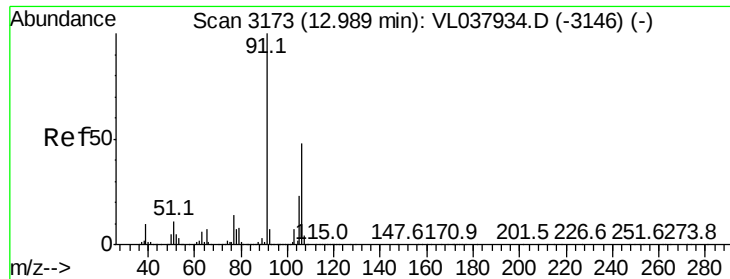
106 31.8 25.1 37.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



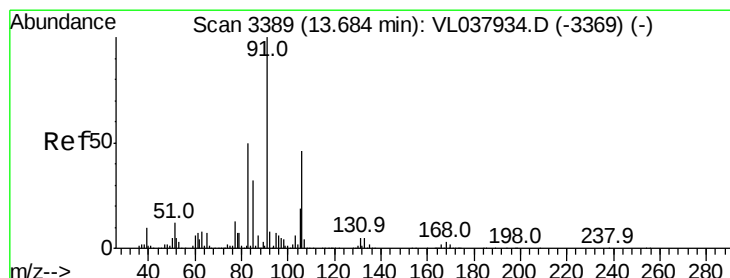
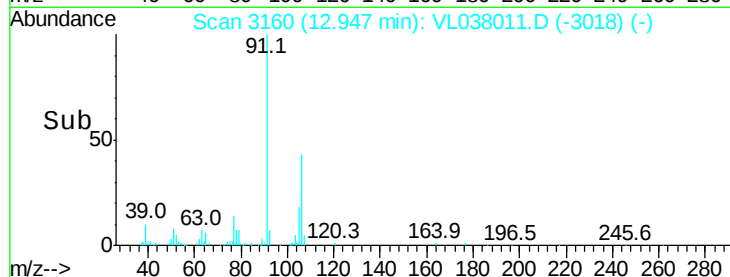
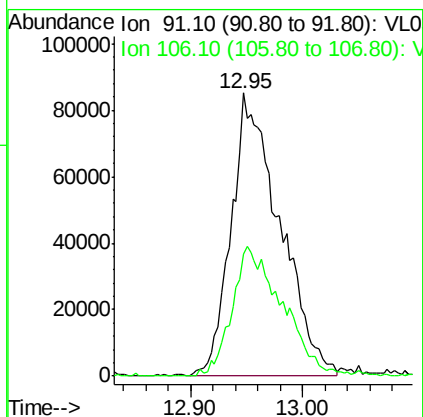
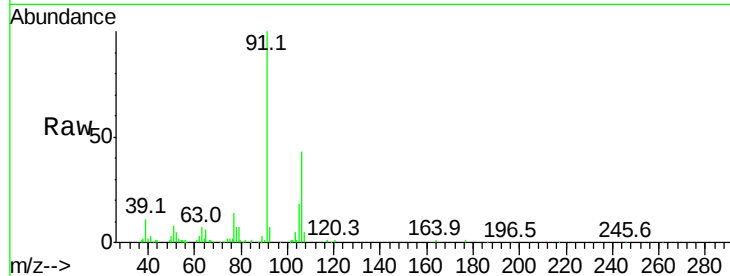


#59
m/p-Xylene
Concen: 0.600 ppbv m
RT: 12.95
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
356-2DL
Acq: 10 Nov 2021 16:09

Tot Ion:
Ion Ratio
91 100
106 0.

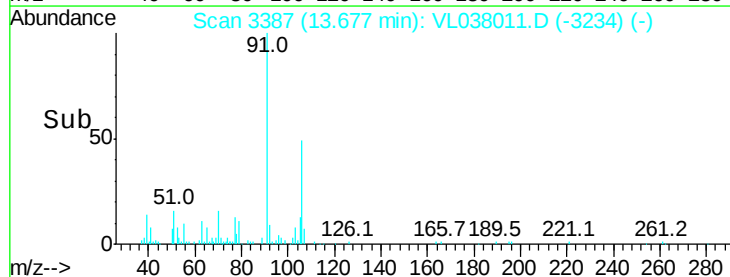
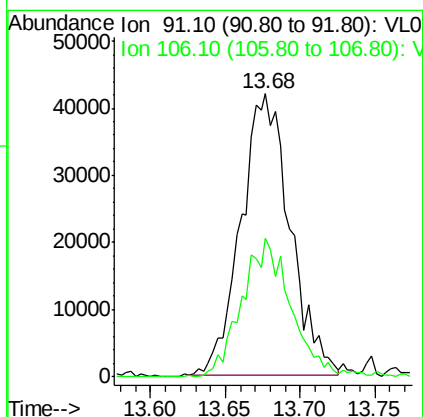
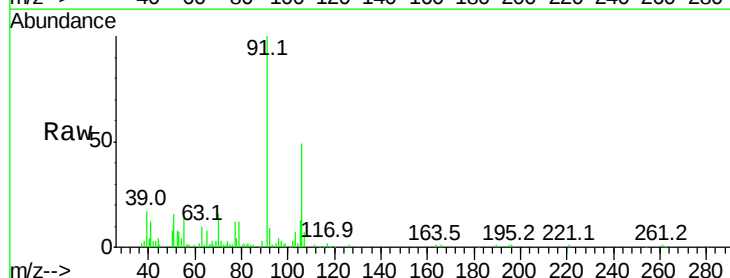
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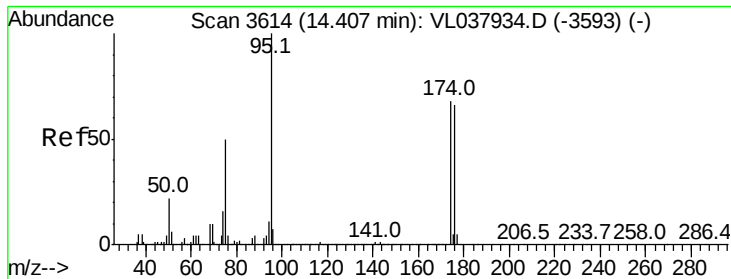
Reviewed By :Semsettin Yesilyurt 11/11/2021
Supervised By :Mahesh Dadoda 11/17/2021



#60
o-Xylene
Concen: 0.237 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. -0.01 min
Lab File: VL038011.D
Acq: 10 Nov 2021 16:09

Tgt Ion: 91 Resp: 95558
Ion Ratio Lower Upper
91 100
106 49.6 23.5 70.6





#68

1-Bromo-4-Fluorobenzene

Concen: 9.950 ppbv

RT: 14.40

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 16:09

Tot Ion:

Ion Ratio

95 100

174 74.

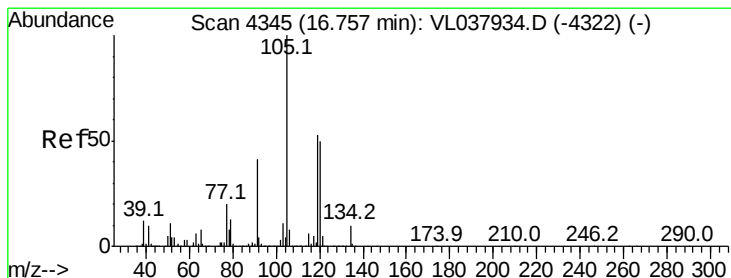
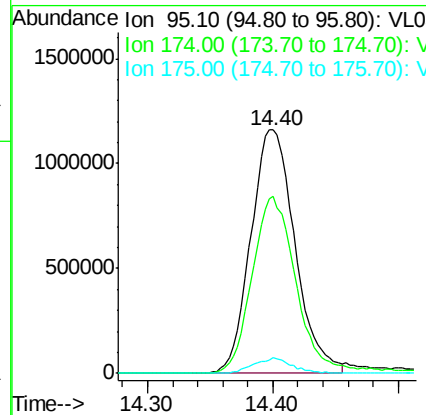
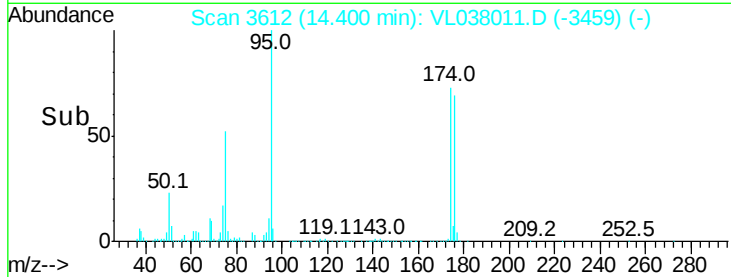
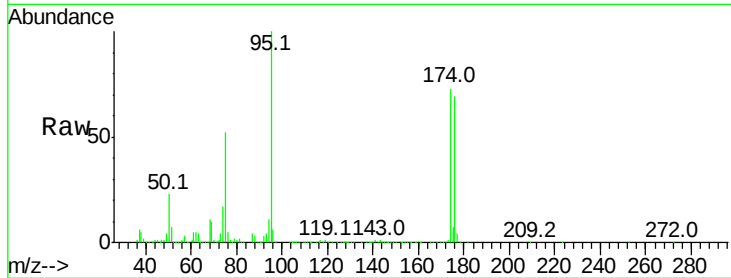
175 5.

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Reviewed By :Semsettin Yesilyurt 11/11/2021

Supervised By :Mahesh Dadoda 11/17/2021



#74

1,2,4-Trimethylbenzene

Concen: 0.134 ppbv m

RT: 16.75 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL038011.D

Acq: 10 Nov 2021 16:09

Tgt Ion:105 Resp: 60870

Ion Ratio Lower Upper

105 100

120 35.2 40.0 60.0#

91 12.0 32.6 49.0#

77 14.2 15.8 23.8#

