

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036487.D
 Acq On : 25 Mar 2021 15:34
 Operator : SY/AP
 Sample : M1801-03 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021
 Supervised By :Mahesh Dadoda 03/29/2021

Quant Time: Mar 28 23:22:54 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 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	5.66	49	1509210	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3738303	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3414720	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2730394	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	25453m	0.103	ppbv	
3) Chlorodifluoromethane	2.98	51	35956	0.128	ppbv #	86
9) Propene	3.02	41	59526m	0.662	ppbv	
10) Heptane	8.13	43	140182m	0.612	ppbv	
13) Ethanol	3.60	45	64993m	6.071	ppbv	
15) Acetone	3.85	43	901776	6.071	ppbv	97
20) Methylene Chloride	4.34	84	129364	1.860	ppbv	95
26) Hexane	5.68	57	915847	5.588	ppbv #	47
29) Chloroform	5.74	83	64712	0.247	ppbv #	82
34) 2-Butanone	5.25	43	173218	0.949	ppbv #	89
52) Tetrachloroethene	11.23	164	217955m	1.717	ppbv	
53) Toluene	9.80	91	574303	1.564	ppbv	98
58) Ethyl Benzene	12.71	91	779365	1.569	ppbv	98
59) m/p-Xylene	12.97	91	1639516m	3.784	ppbv	
60) o-Xylene	13.70	91	739481m	1.765	ppbv	
62) Isopropylbenzene	14.67	105	295420	0.524	ppbv	100
64) n-propylbenzene	15.57	120	153270m	1.111	ppbv	
67) sec-Butylbenzene	17.30	105	293512	0.425	ppbv	99
72) 4-Ethyltoluene	15.85	105	459389	1.001	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.00	105	370867	0.866	ppbv	95
74) 1,2,4-Trimethylbenzene	16.77	105	911428	1.988	ppbv #	69

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

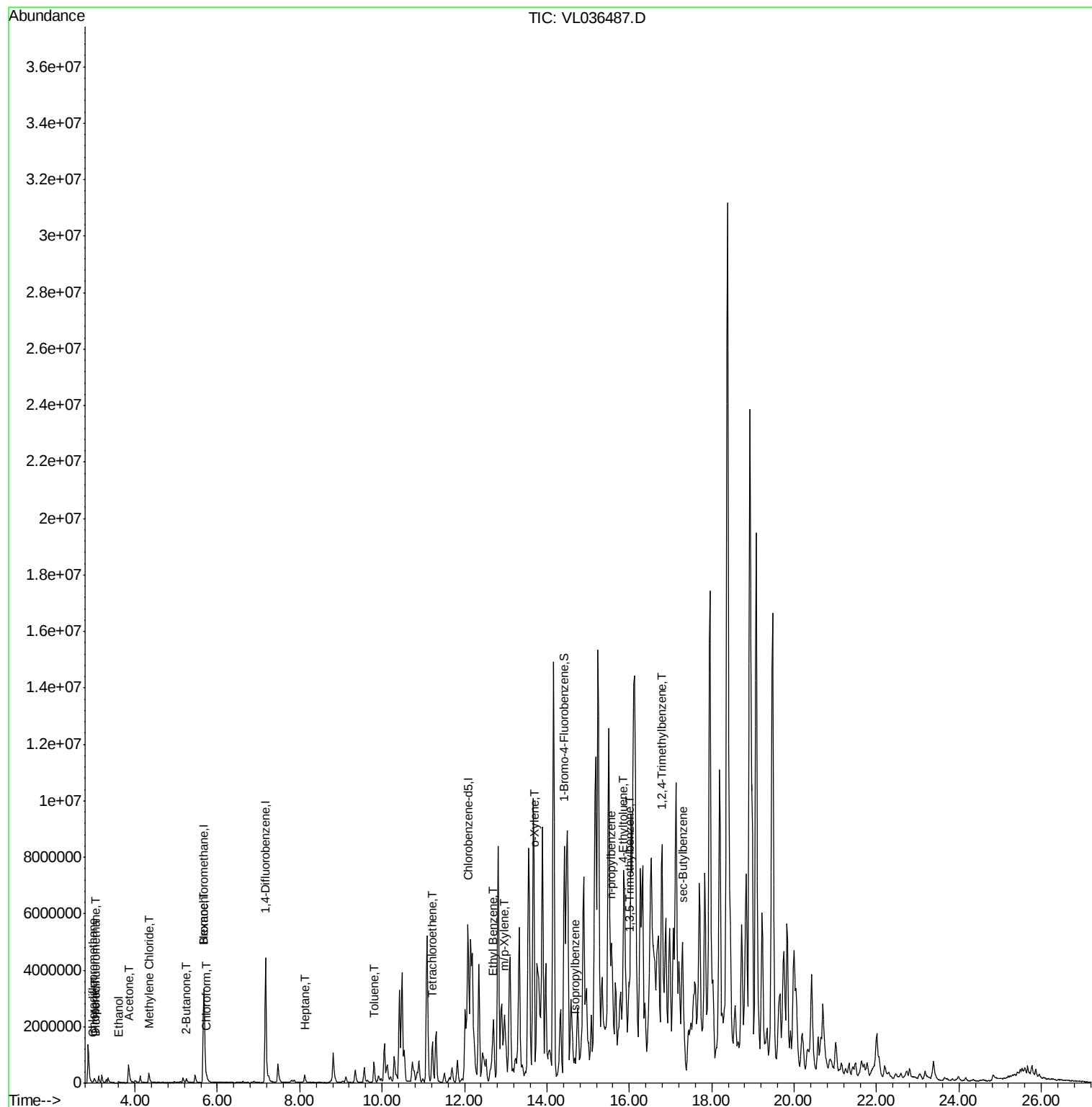
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032521\
Data File : VL036487.D
Acq On : 25 Mar 2021 15:34
Operator : SY/AP
Sample : M1801-03 4X
Misc : 400ml/MSVOA L
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Instrument :
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ClientSampleId :
SV1

Manual Integrations
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Quant Time: Mar 28 23:22:54 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV1

Acq: 25 Mar 2021 15:34

Tot Ion:

Ion Ratio

49 100

128 46.

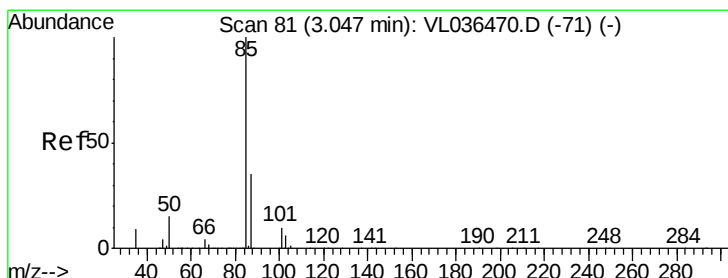
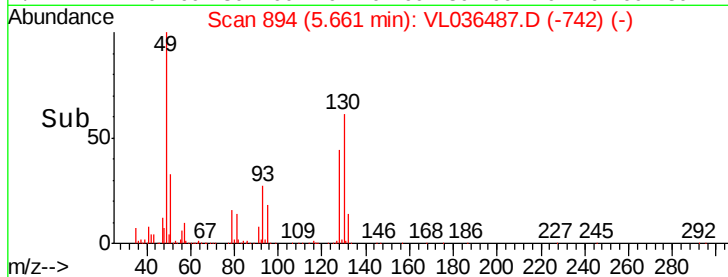
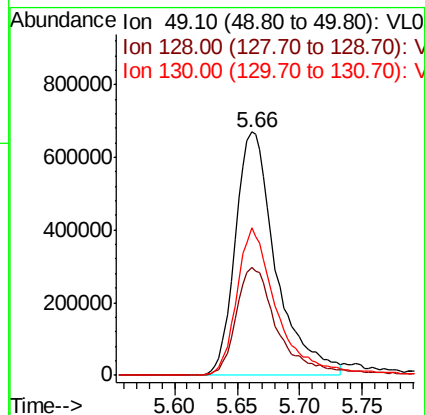
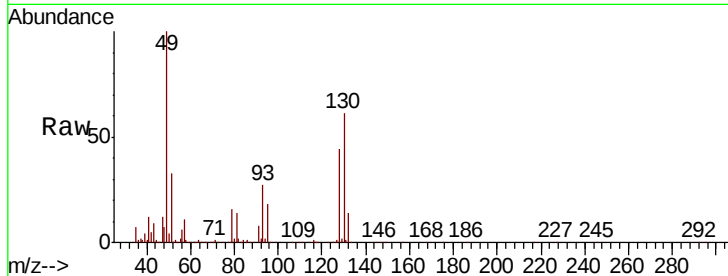
130 61.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



#2

Dichlorodifluoromethane

Concen: 0.103 ppbv m

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036487.D

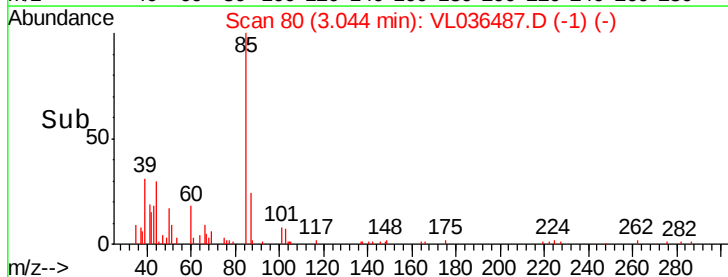
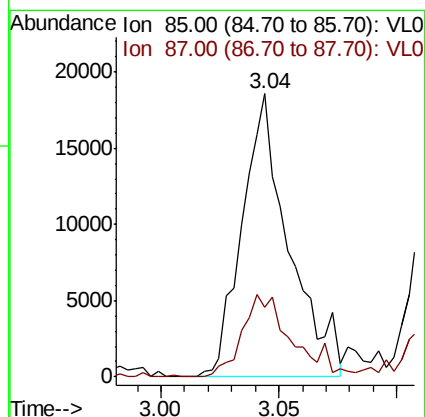
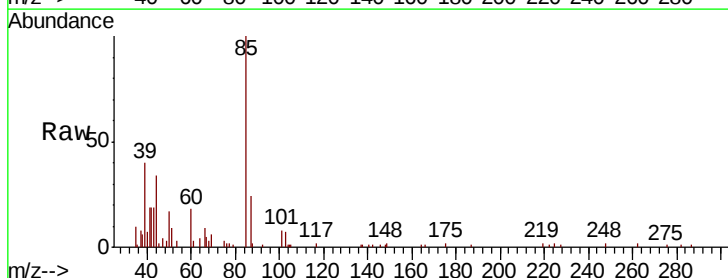
Acq: 25 Mar 2021 15:34

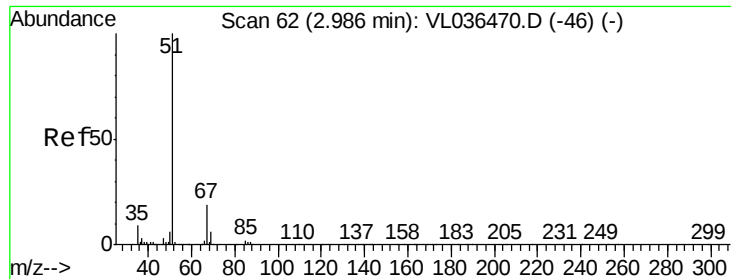
Tgt Ion: 85 Resp: 25453

Ion Ratio Lower Upper

85 100

87 24.5 27.8 41.8#



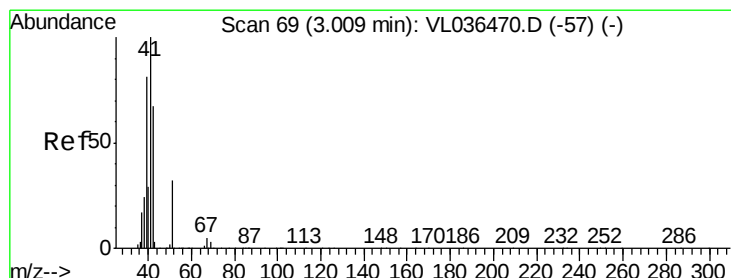
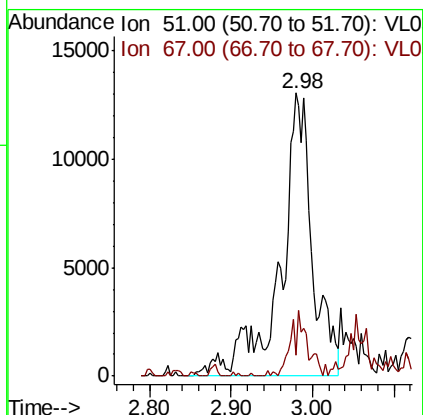
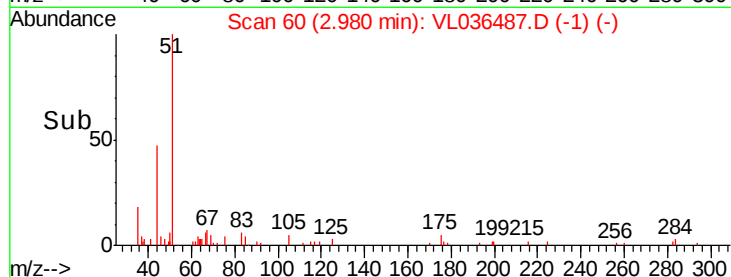
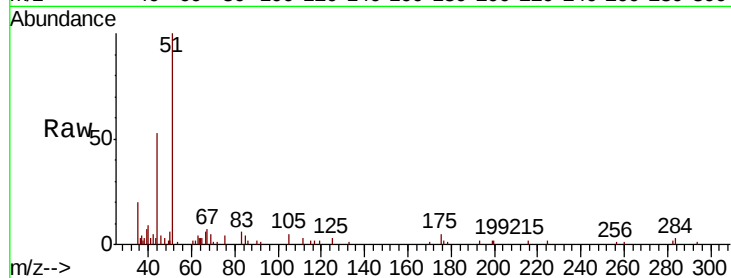


#3
Chlorodifluoromethane
Concen: 0.128 ppbv
RT: 2.98
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1
Acq: 25 Mar 2021 15:34

Tot Ion:
Ion Ratio
51 100
67 12.

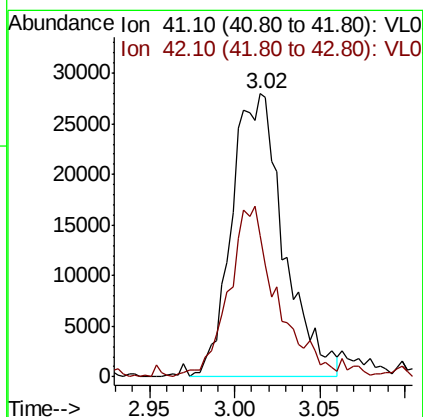
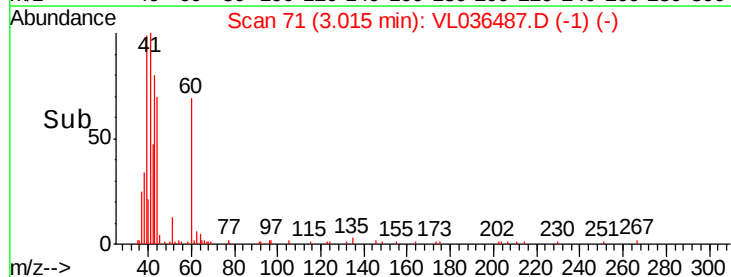
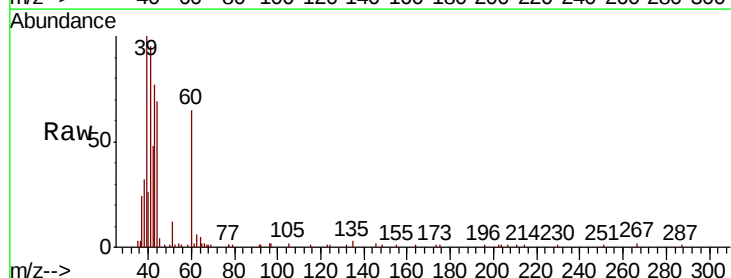
Manual Integrations
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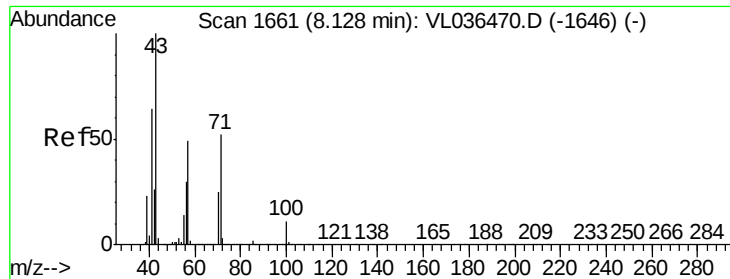
Reviewed By :Semsettin Yesilyurt 03/28/2021
Supervised By :Mahesh Dadoda 03/29/2021



#9
Propene
Concen: 0.662 ppbv m
RT: 3.02 min Scan# 71
Delta R.T. 0.01 min
Lab File: VL036487.D
Acq: 25 Mar 2021 15:34

Tgt Ion: 41 Resp: 59526
Ion Ratio Lower Upper
41 100
42 58.5 57.0 85.4





#10

Heptane

Concen: 0.612 ppbv m

RT: 8.13

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 15:34

Tot Ion:

Ion Ratio

43 100

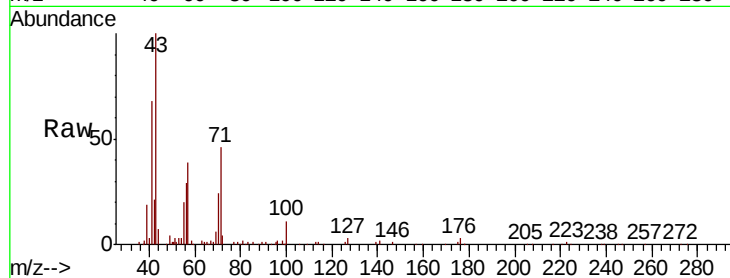
57 0.

Manual Integrations

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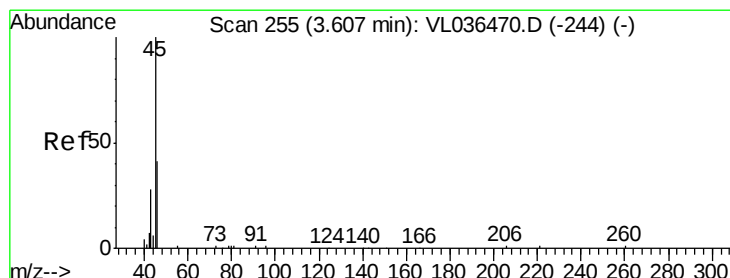
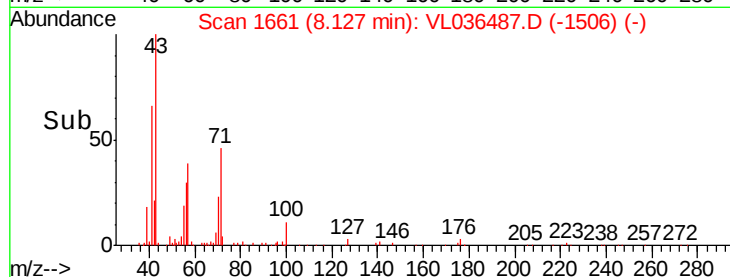
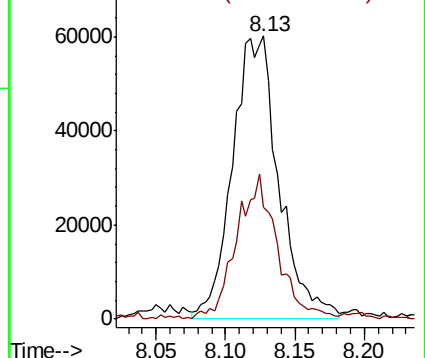
Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 6.071 ppbv m

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL036487.D

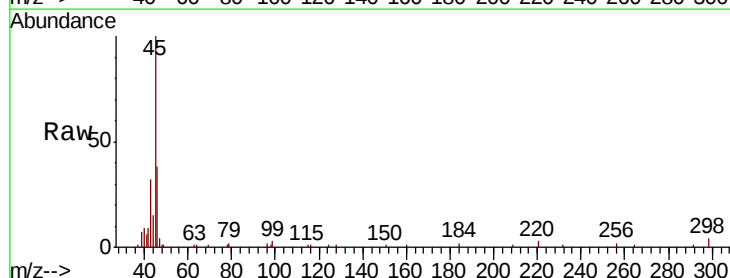
Acq: 25 Mar 2021 15:34

Tgt Ion: 45 Resp: 64993

Ion Ratio Lower Upper

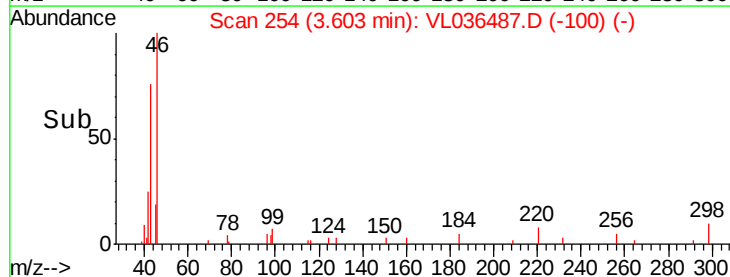
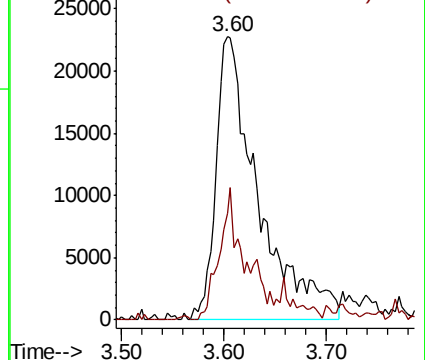
45 100

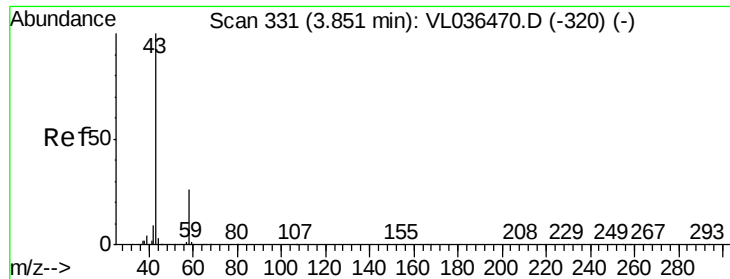
46 37.5 16.6 66.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



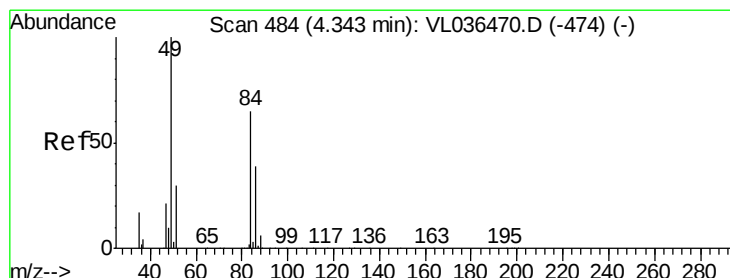
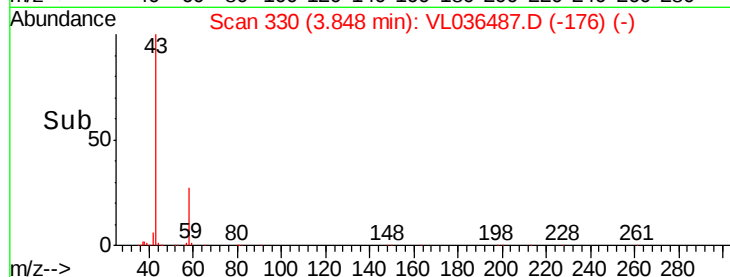
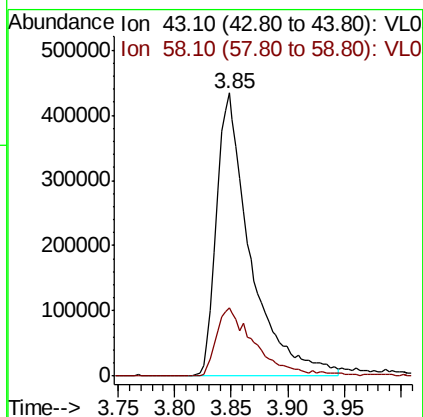
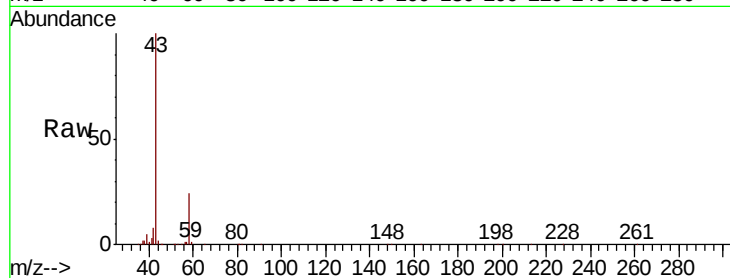


#15
Acetone
Concen: 6.071 ppbv
RT: 3.85
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 15:34

Tot Ion:
Ion Ratio
43 100
58 28.

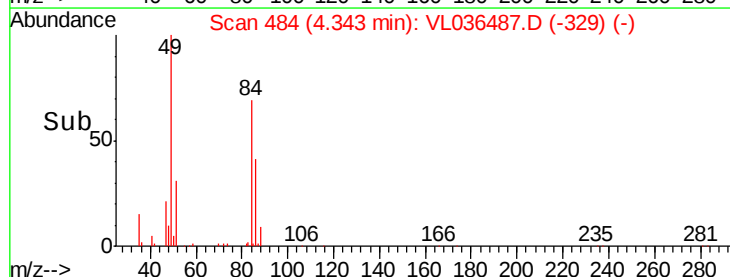
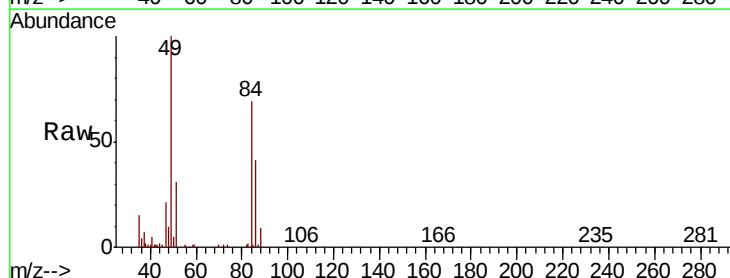
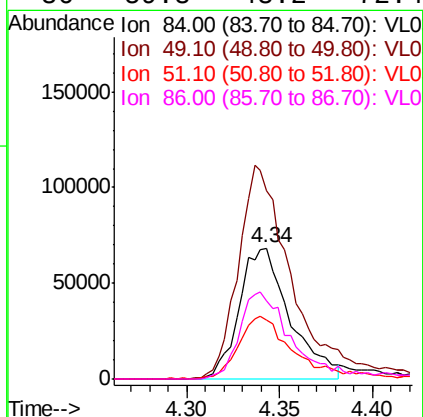
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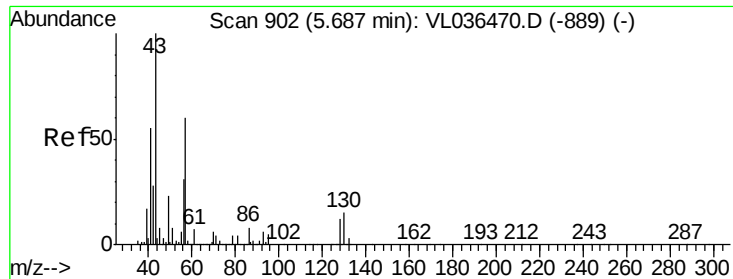
Reviewed By :Semsettin Yesilyurt 03/28/2021
Supervised By :Mahesh Dadoda 03/29/2021



#20
Methylene Chloride
Concen: 1.860 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL036487.D
Acq: 25 Mar 2021 15:34

Tgt Ion: 84 Resp: 129364
Ion Ratio Lower Upper
84 100
49 144.2 122.9 184.3
51 45.1 36.9 55.3
86 59.8 48.2 72.4



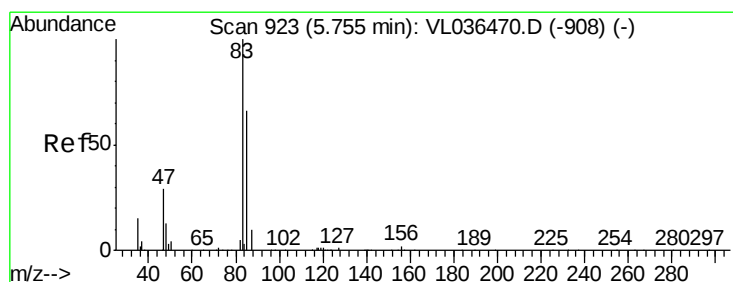
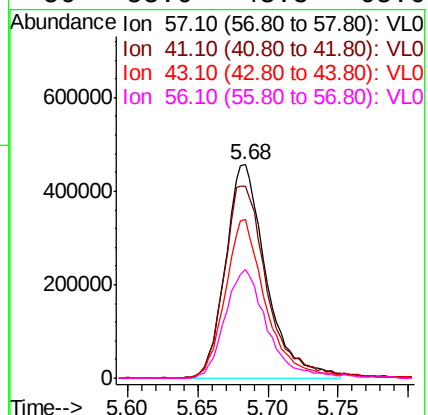
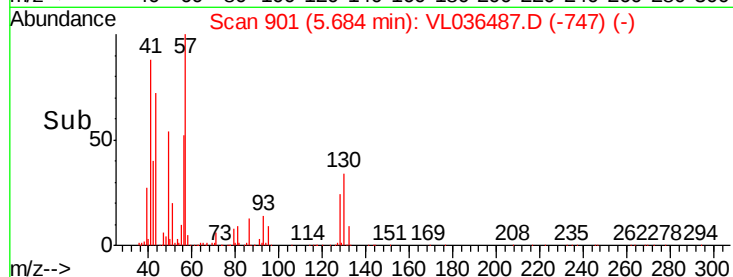
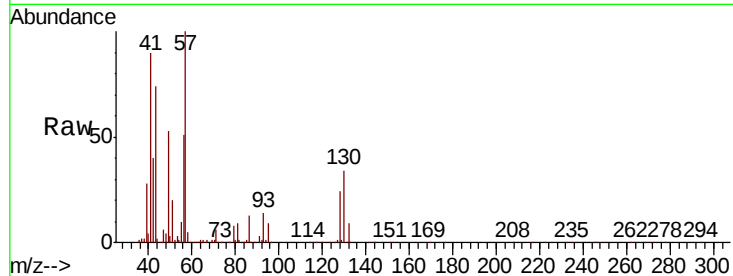


#26
Hexane
Concen: 5.588 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 15:34

Tot Ion:
Ion Ratio
57 100
41 96.
43 75.
56 53.6 43.8 65.6

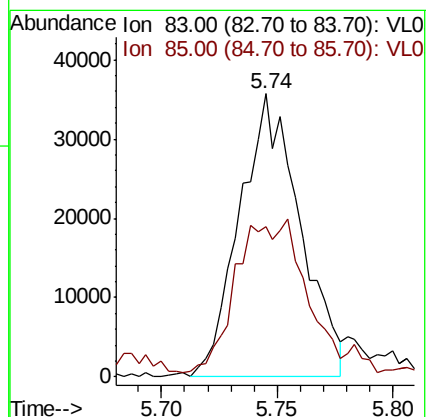
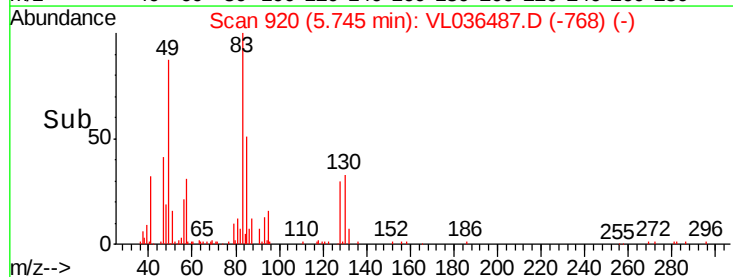
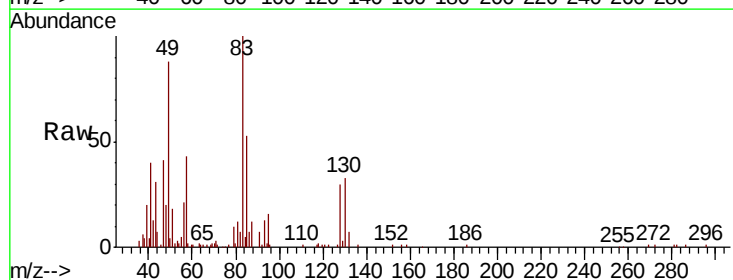
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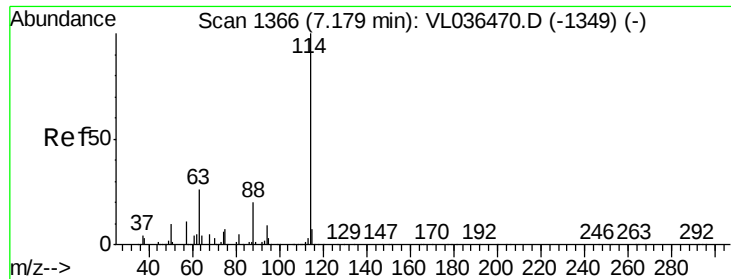
Reviewed By :Semsettin Yesilyurt 03/28/2021
Supervised By :Mahesh Dadoda 03/29/2021



#29
Chloroform
Concen: 0.247 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL036487.D
Acq: 25 Mar 2021 15:34

Tgt Ion: 83 Resp: 64712
Ion Ratio Lower Upper
83 100
85 51.2 52.6 78.8#



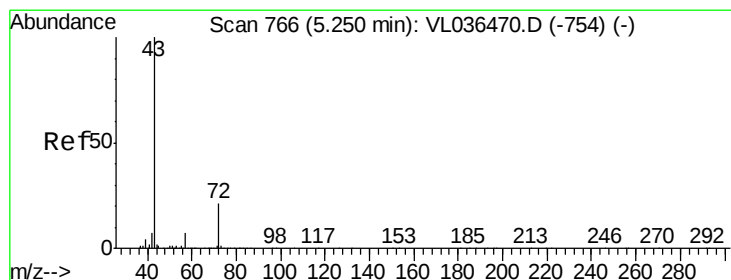
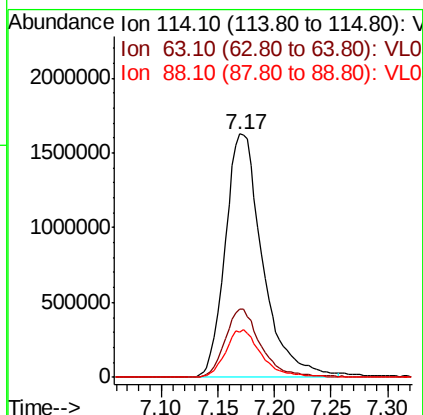
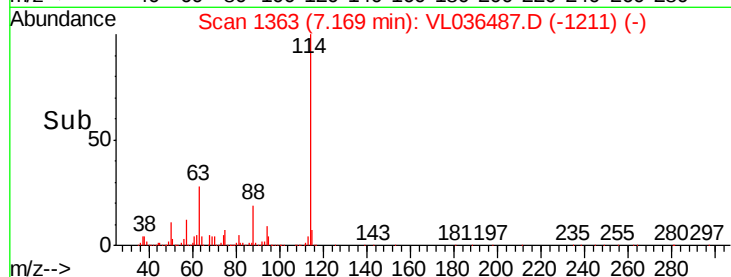
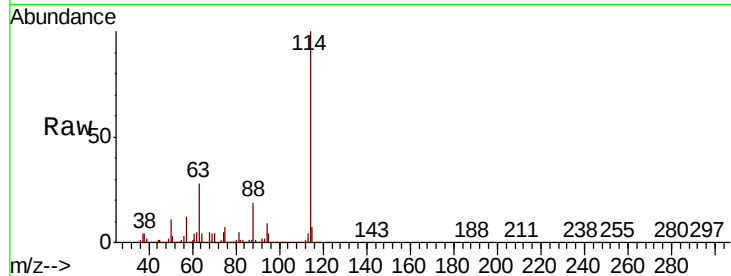


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 15:34

Tot Ion:1
 Ion Rati
 114 100
 63 27.
 88 19.

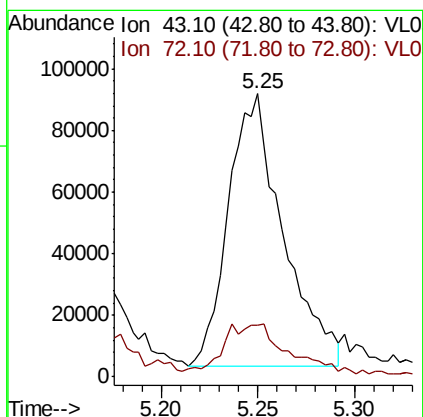
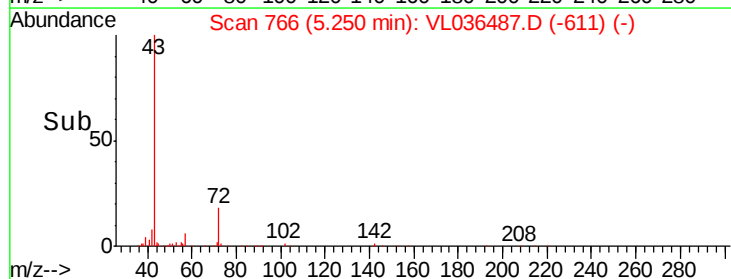
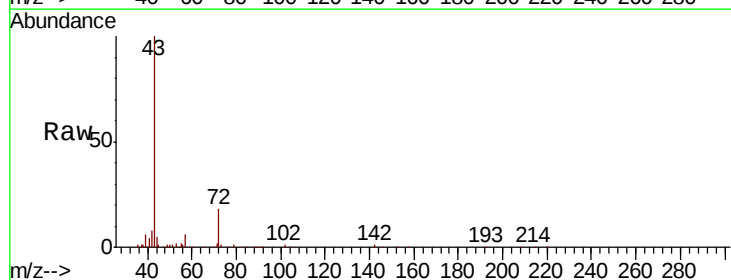
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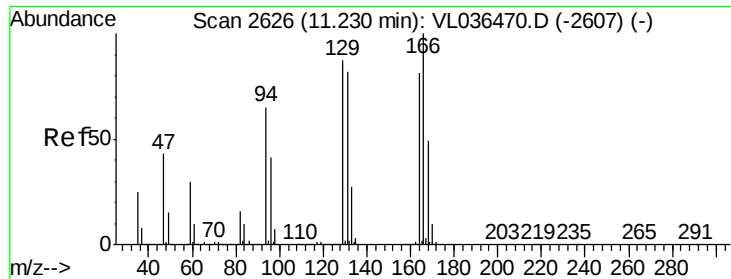
Reviewed By :Semsettin Yesilyurt 03/28/2021
 Supervised By :Mahesh Dadoda 03/29/2021



#34
 2-Butanone
 Concen: 0.949 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. -0.00 min
 Lab File: VL036487.D
 Acq: 25 Mar 2021 15:34

Tgt Ion: 43 Resp: 173218
 Ion Ratio Lower Upper
 43 100
 72 26.6 17.0 25.6#





#52

Tetrachloroethene

Concen: 1.717 ppbv m

RT: 11.23

Delta R.T. MSVOA_L

Lab File:

Acq: 25 Mar 2021 15:34

ClientSampleId :

SV1

Manual Integrations
APPROVED

Tot Ion:1

Ion Ratio

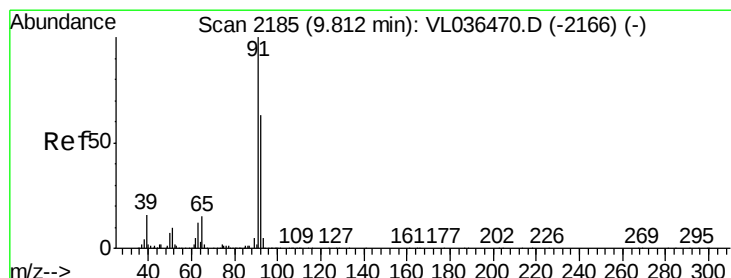
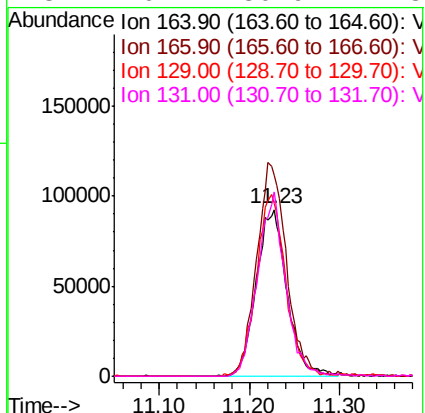
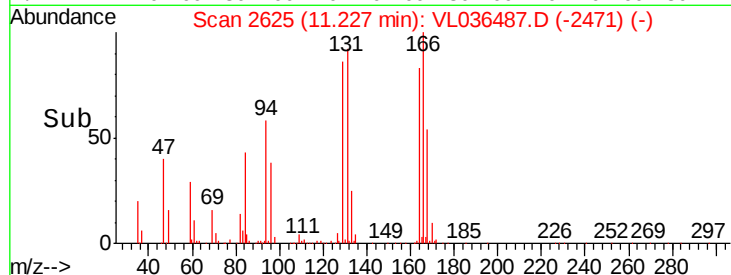
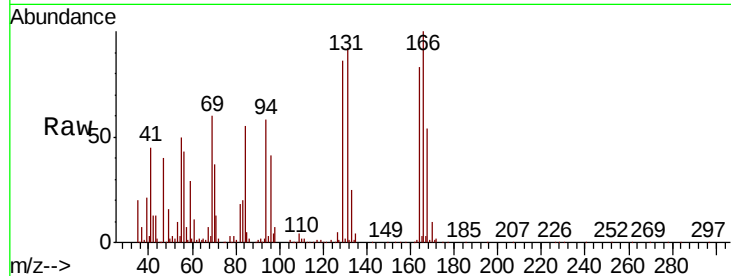
164 100

166 120.

129 103.

131 110.4 80.9 121.3

Reviewed By :Semsettin Yesilyurt 03/28/2021
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#53

Toluene

Concen: 1.564 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL036487.D

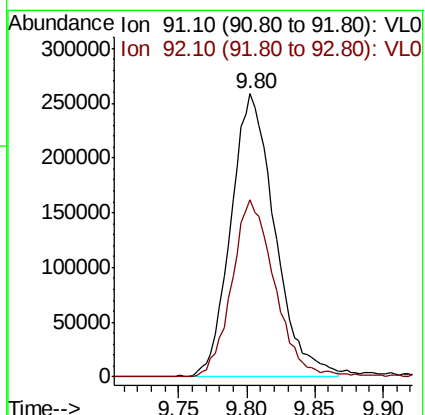
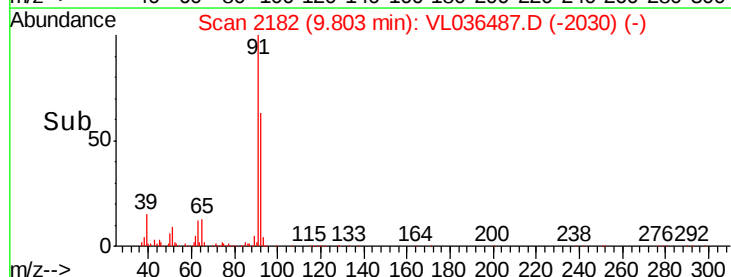
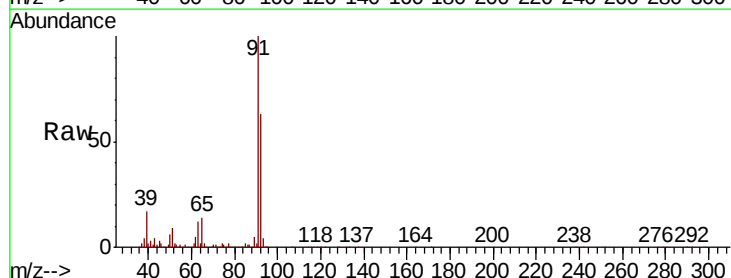
Acq: 25 Mar 2021 15:34

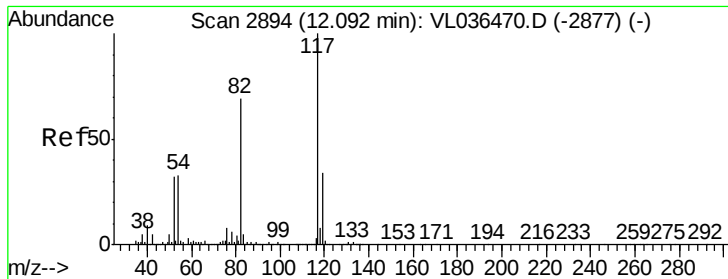
Tgt Ion: 91 Resp: 574303

Ion Ratio Lower Upper

91 100

92 62.2 48.8 73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09

Delta R.T. MSVOA_L

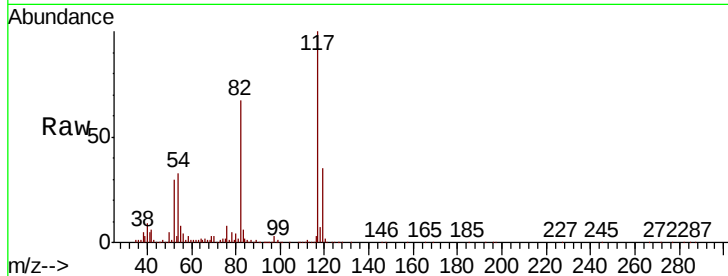
Lab File: ClientSampleId:

Acq: 25 Mar 2021 15:34

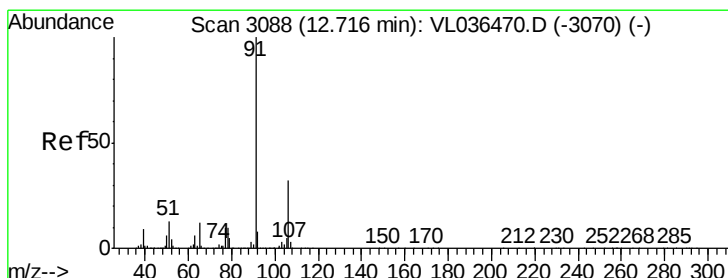
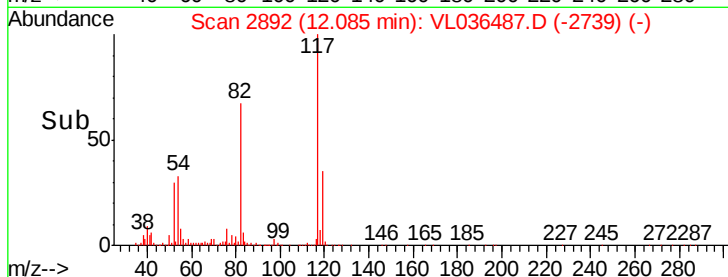
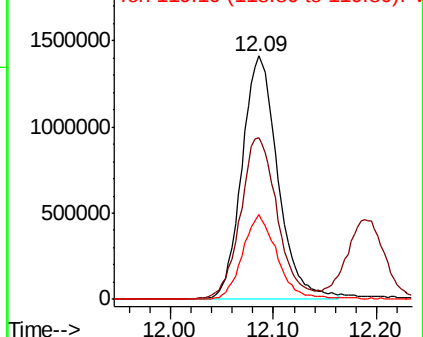
Tot Ion:1
Ion Rati
117 100
82 68.
119 33.

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Reviewed By :Semsettin Yesilyurt 03/28/2021
Supervised By :Mahesh Dadoda 03/29/2021



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: 1.569 ppbv

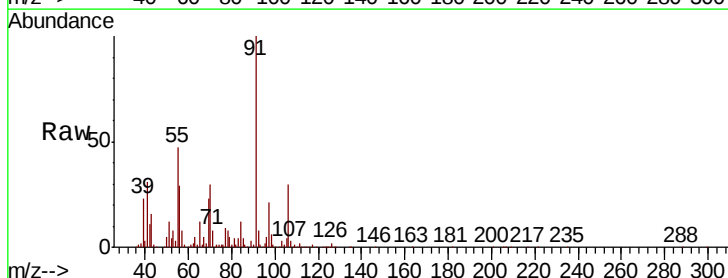
RT: 12.71 min Scan# 3087

Delta R.T. -0.00 min

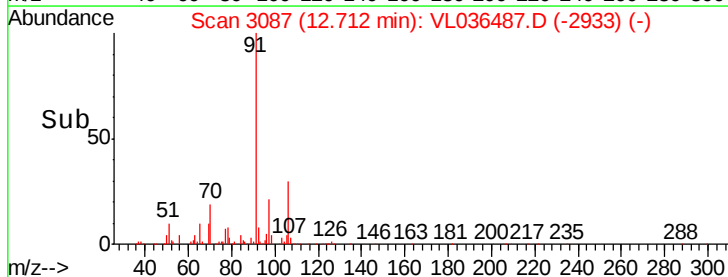
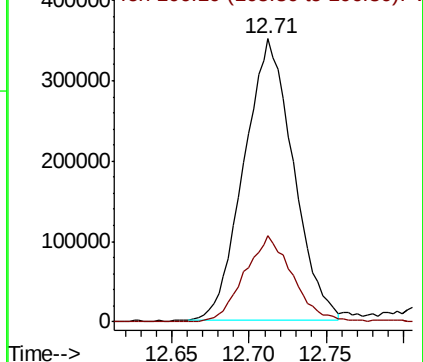
Lab File: VL036487.D

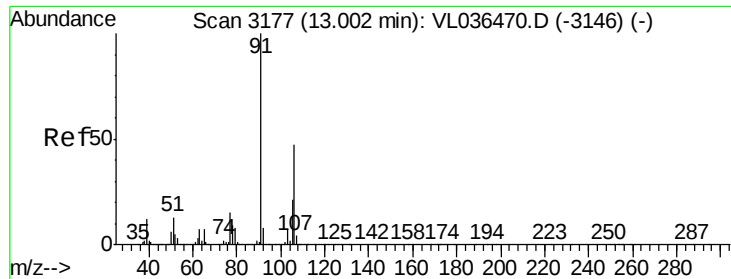
Acq: 25 Mar 2021 15:34

Tgt Ion: 91 Resp: 779365
Ion Ratio Lower Upper
91 100
106 30.5 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V



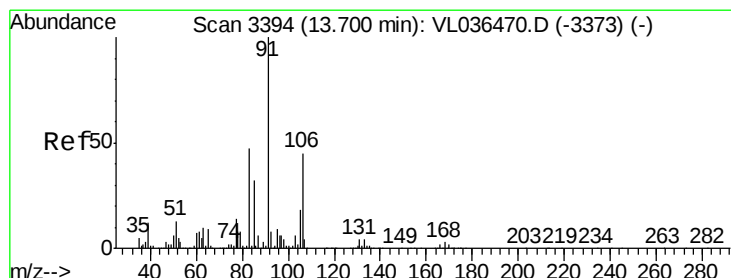
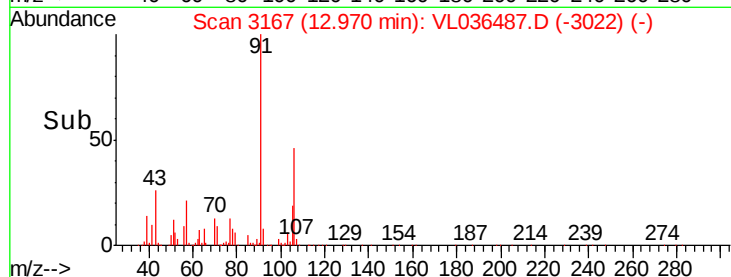
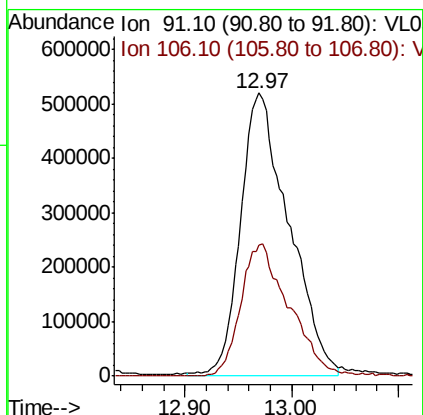
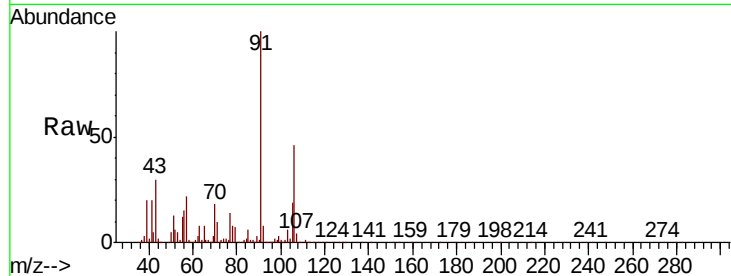


#59
m/p-Xylene
Concen: 3.784 ppbv m
RT: 12.97
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 15:34

Tot Ion:
Ion Ratio
91 100
106 46.

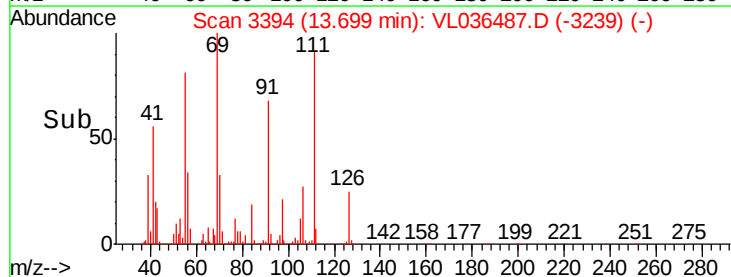
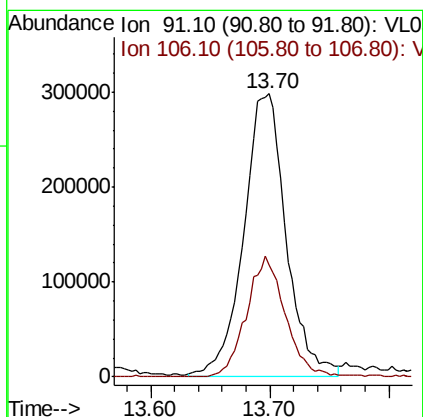
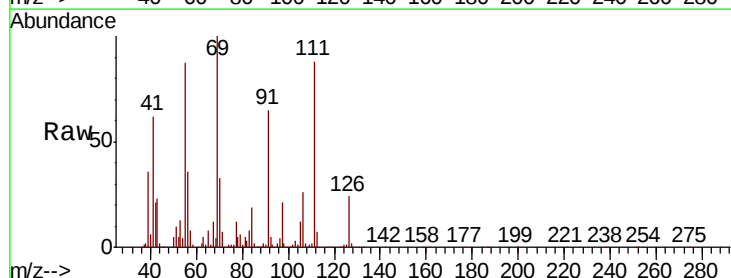
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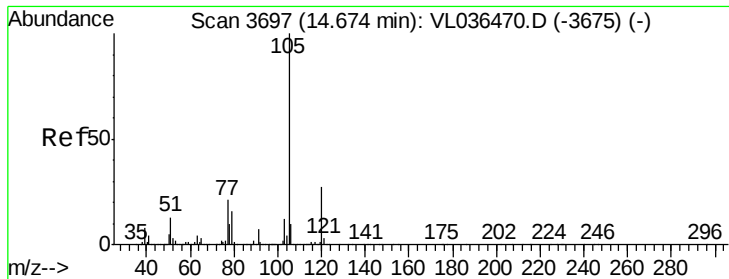
Reviewed By :Semsettin Yesilyurt 03/28/2021
Supervised By :Mahesh Dadoda 03/29/2021



#60
o-Xylene
Concen: 1.765 ppbv m
RT: 13.70 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL036487.D
Acq: 25 Mar 2021 15:34

Tgt Ion: 91 Resp: 739481
Ion Ratio Lower Upper
91 100
106 38.9 22.3 66.9





#62

Isopropylbenzene

Concen: 0.524 ppbv

RT: 14.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 15:34

Tot Ion:1

Ion Ratio

105 100

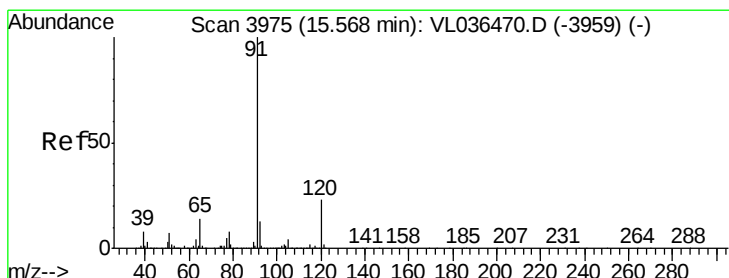
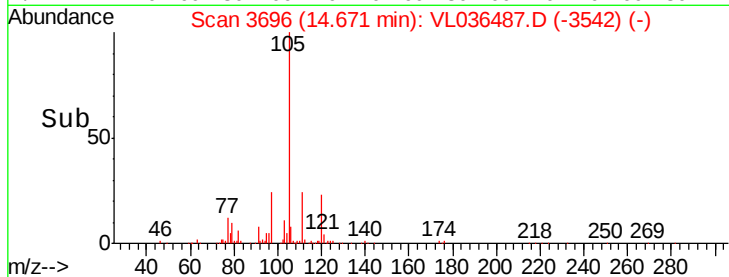
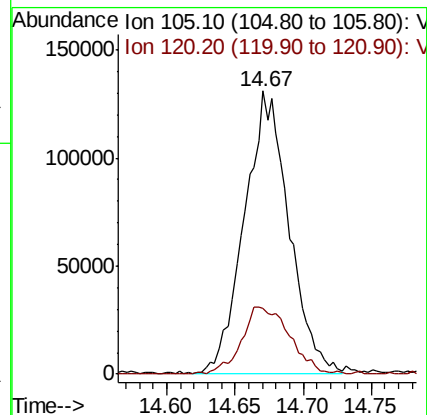
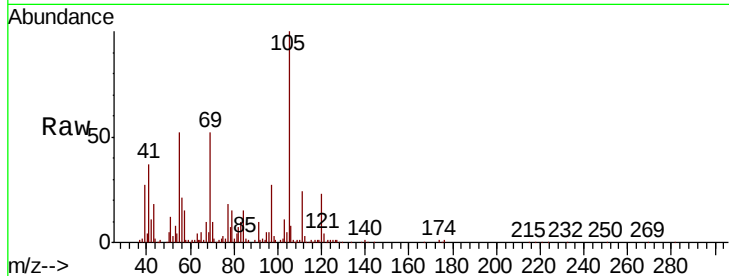
120 26.

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Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



#64

n-propylbenzene

Concen: 1.111 ppbv m

RT: 15.57 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VL036487.D

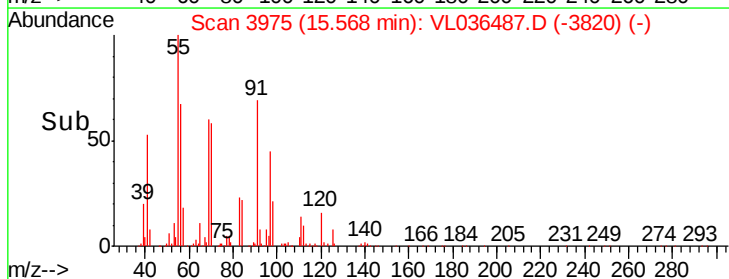
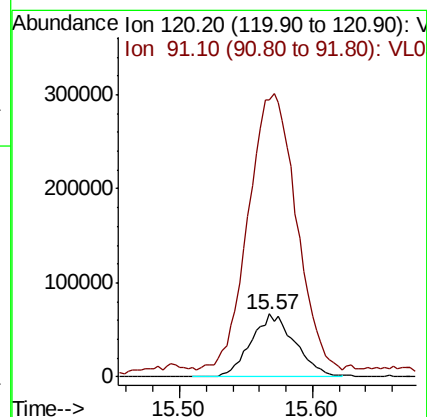
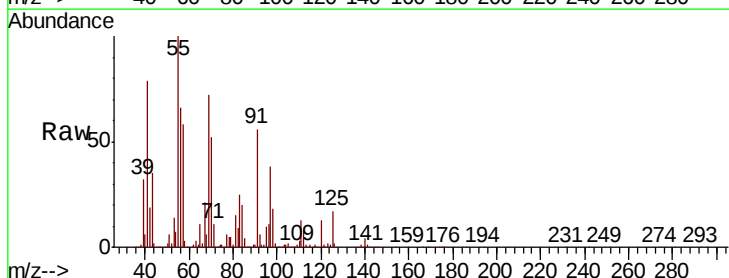
Acq: 25 Mar 2021 15:34

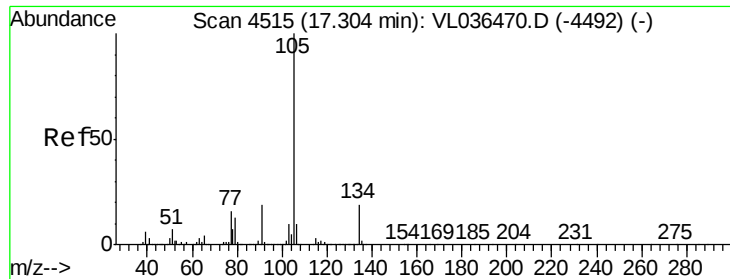
Tgt Ion:120 Resp: 153270

Ion Ratio Lower Upper

120 100

91 508.3 377.4 566.2





#67

sec-Butylbenzene

Concen: 0.425 ppbv

RT: 17.30

Delta R.T. MSVOA_L

Lab File:

ClientSampleId: SV1

Acq: 25 Mar 2021 15:34

Tot Ion:1

Ion Rati

105 100

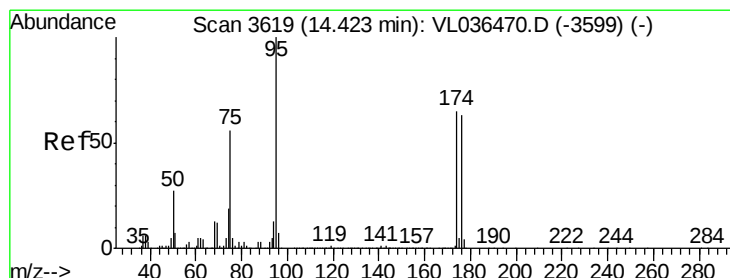
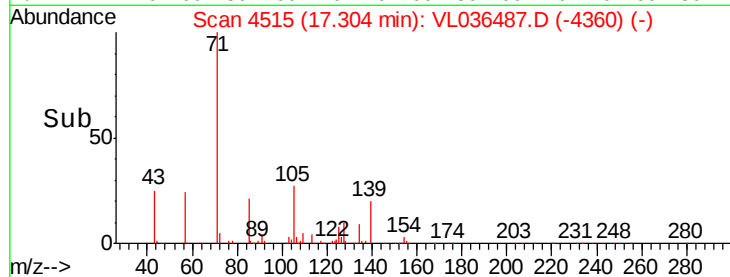
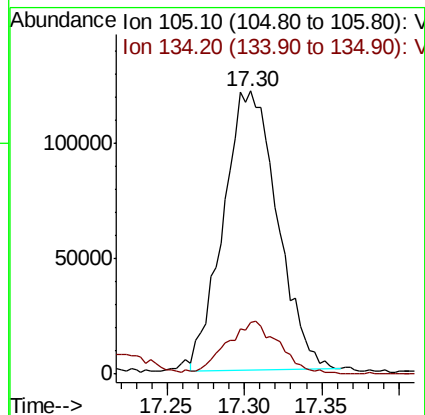
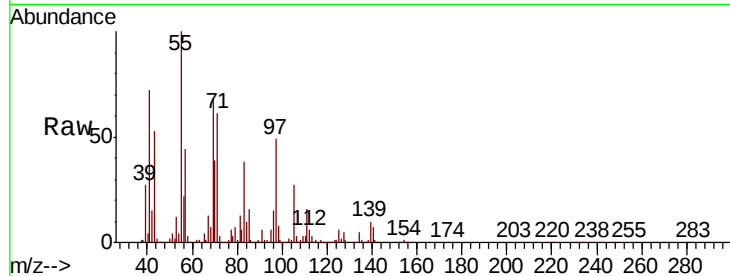
134 18.

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Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



#68

1-Bromo-4-Fluorobenzene

Concen: 10.032 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.00 min

Lab File: VL036487.D

Acq: 25 Mar 2021 15:34

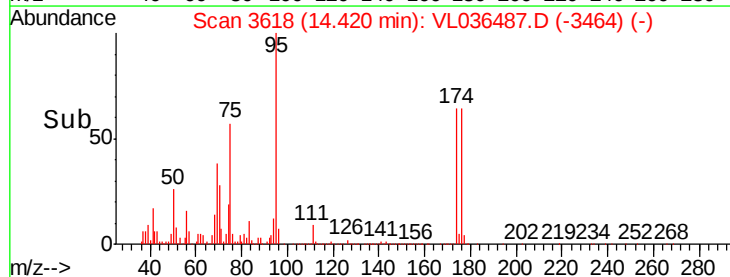
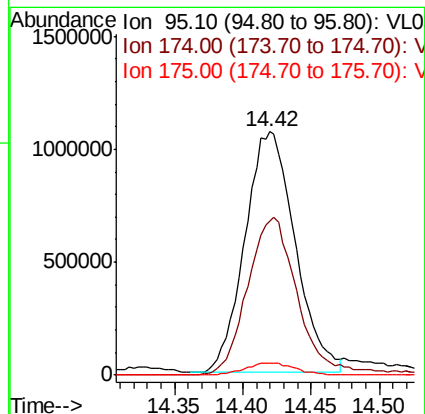
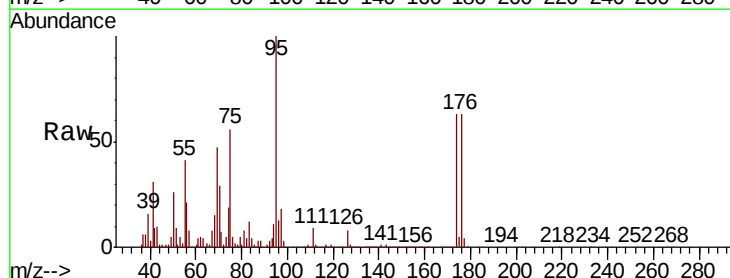
Tgt Ion: 95 Resp: 2730394

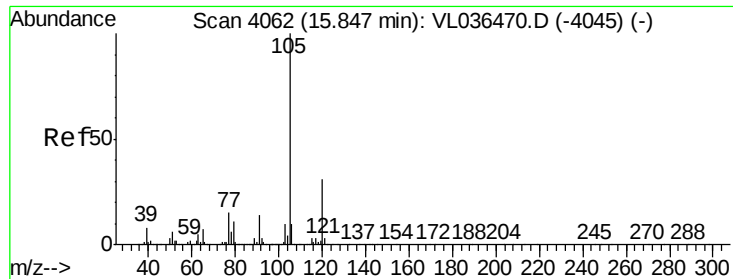
Ion Ratio Lower Upper

95 100

174 67.5 51.0 76.6

175 5.1 3.9 5.9





#72

4-Ethyltoluene

Concen: 1.001 ppbv

RT: 15.85

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Mar 2021 15:34

Tot Ion:1

Ion Rati

105 100

120 28.

91 12.

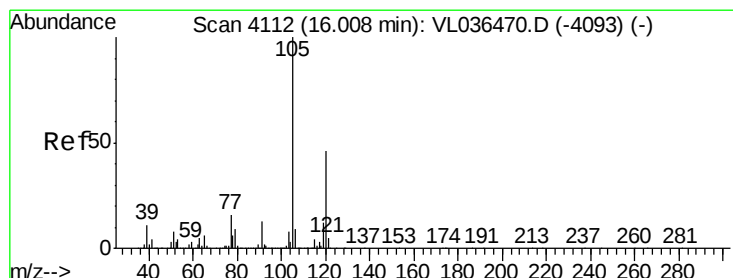
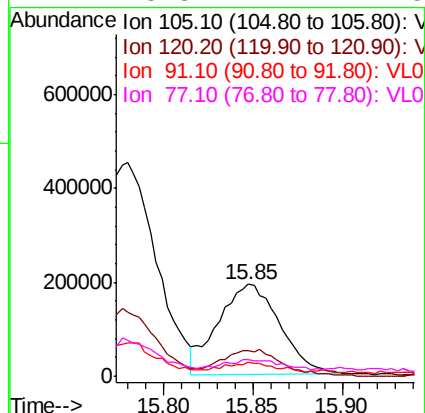
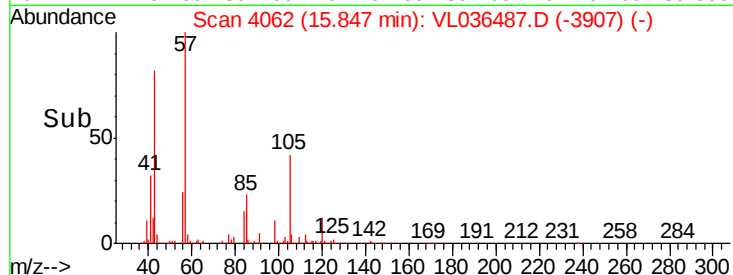
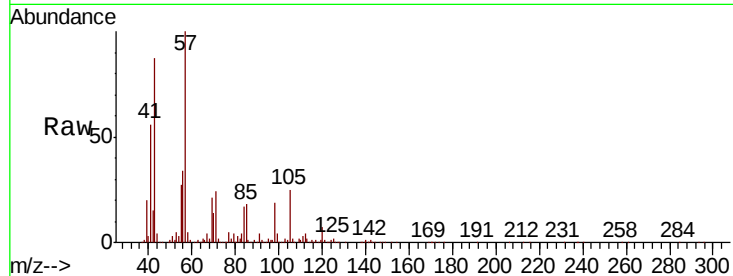
77 18.3 11.7 17.5#

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Reviewed By :Semsettin Yesilyurt 03/28/2021

Supervised By :Mahesh Dadoda 03/29/2021



#73

1,3,5-Trimethylbenzene

Concen: 0.866 ppbv

RT: 16.00 min Scan# 4111

Delta R.T. -0.00 min

Lab File: VL036487.D

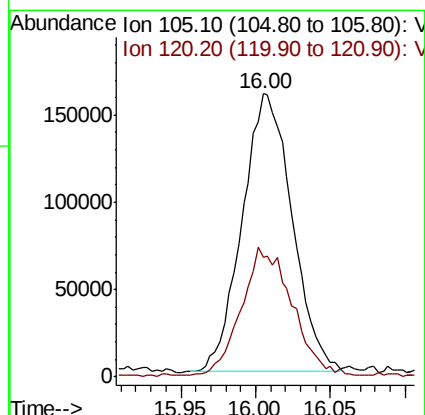
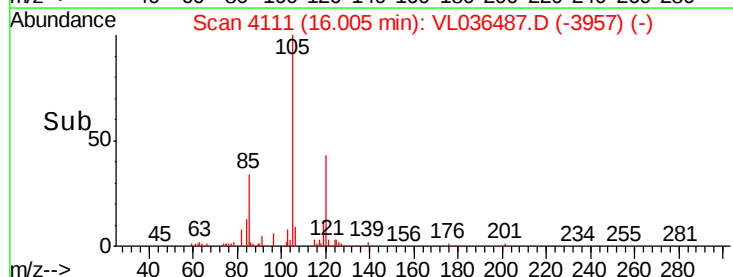
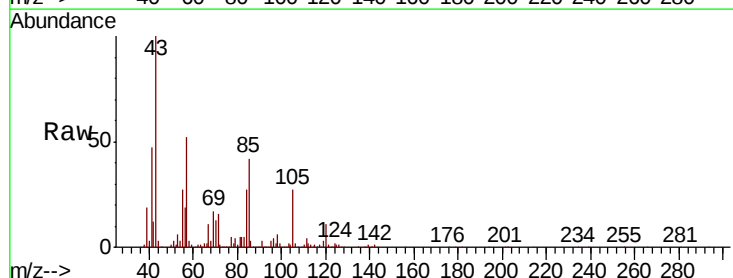
Acq: 25 Mar 2021 15:34

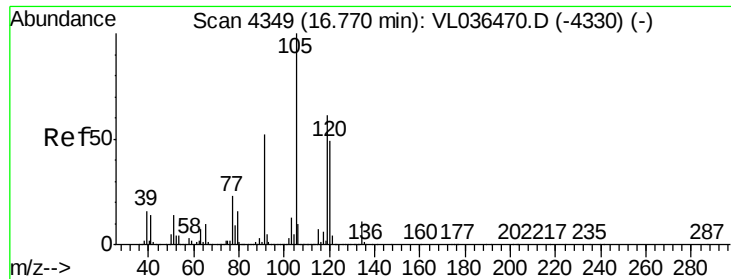
Tgt Ion:105 Resp: 370867

Ion Ratio Lower Upper

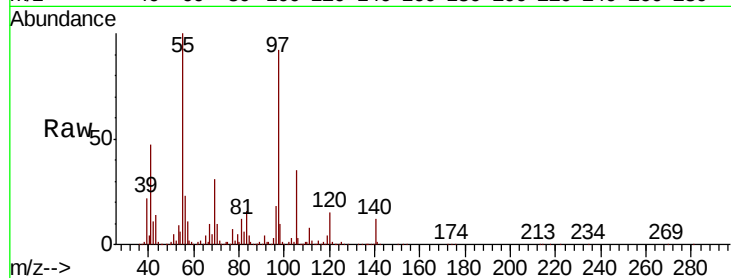
105 100

120 42.5 36.6 54.8





#74
 1,2,4-Trimethylbenzene
 Concen: 1.988 ppbv
 RT: 16.77
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 15:34



Tot Ion:1
 Ion Rati
 105 100
 120 43.
 91 11.
 77 16.1 18.6 28.0#

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/28/2021
 Supervised By :Mahesh Dadoda 03/29/2021

