

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030322\
 Data File : VL038518.D
 Acq On : 3 Mar 2022 17:54
 Operator : SY/AP
 Sample : N1791-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-9CDUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/07/2022
 Supervised By : Mahesh Dadoda 03/07/2022

Quant Time: Mar 05 16:03:39 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022222A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	818465	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	1813785	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	1561125	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1276655	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	32750	0.253	ppbv	94
4) Chloromethane	3.13	50	34780	0.693	ppbv	94
9) Propene	3.01	41	64290	1.347	ppbv	85
11) Trichlorofluoromethane	3.94	101	26207	0.211	ppbv	90
13) Ethanol	3.59	45	3569958	749.632	ppbv	89
15) Acetone	3.84	43	513922m	7.384	ppbv	
17) tert-Butyl alcohol	4.29	59	19500m	0.281	ppbv	
19) Isopropyl Alcohol	3.96	45	352815	8.754	ppbv #	93
20) Methylene Chloride	4.33	84	90174	2.615	ppbv	98
26) Hexane	5.67	57	130528	1.541	ppbv #	46
29) Chloroform	5.73	83	97216	0.703	ppbv	98
34) 2-Butanone	5.24	43	48144	0.844	ppbv	97
35) Carbon Tetrachloride	7.01	117	8634m	0.068	ppbv	
36) Benzene	6.87	78	42785	0.268	ppbv #	93
38) Trichloroethene	7.81	130	6229m	0.107	ppbv	
53) Toluene	9.79	91	105503	0.609	ppbv	98
59) m/p-Xylene	12.95	91	30384m	0.166	ppbv	

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

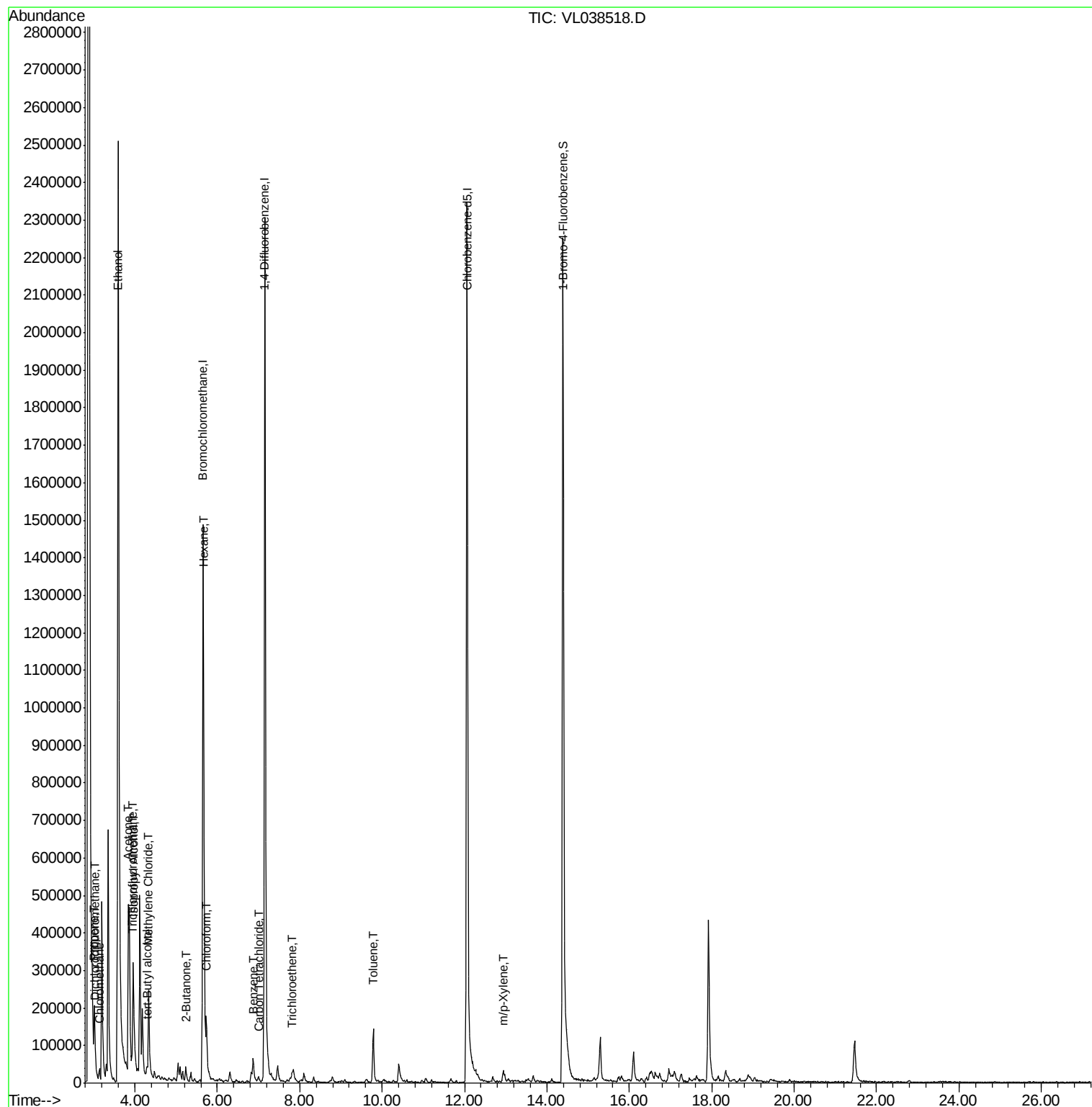
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030322\
Data File : VL038518.D
Acq On : 3 Mar 2022 17:54
Operator : SY/AP
Sample : N1791-01DUP
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

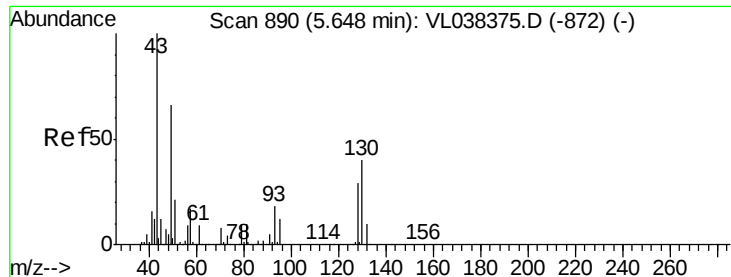
Instrument :
MSVOA_L
ClientSampleId :
IA-9CDUP

Quant Time: Mar 05 16:03:39 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL022222
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Tue Feb 22 19:45:51 2022
Response via : Initial Calibration

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-9CDUP

Acq: 3 Mar 2022 17:54

Tot Ion:

Ion Ratio

49 100

128 44.

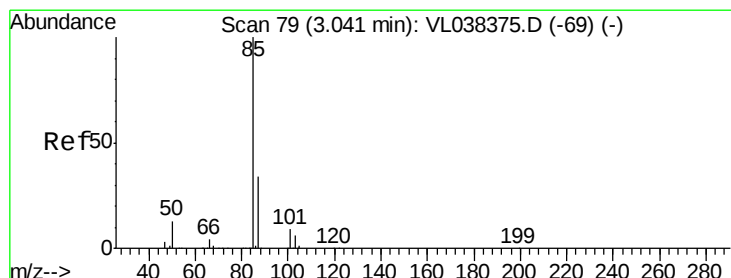
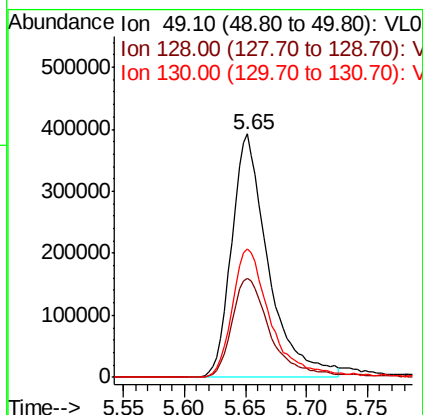
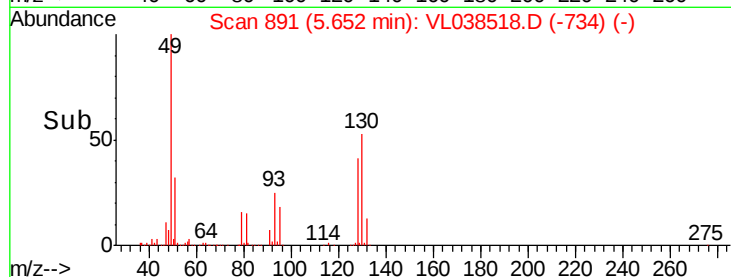
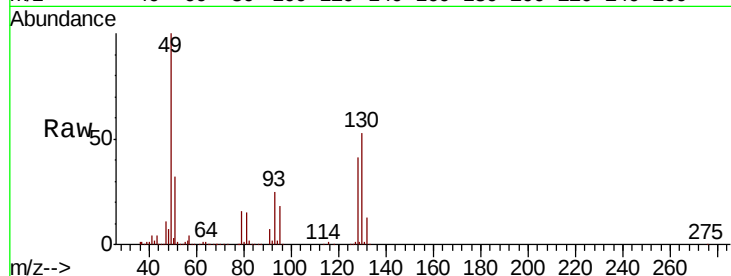
130 57.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/07/2022

Supervised By :Mahesh Dadoda 03/07/2022



#2

Dichlorodifluoromethane

Concen: 0.253 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL038518.D

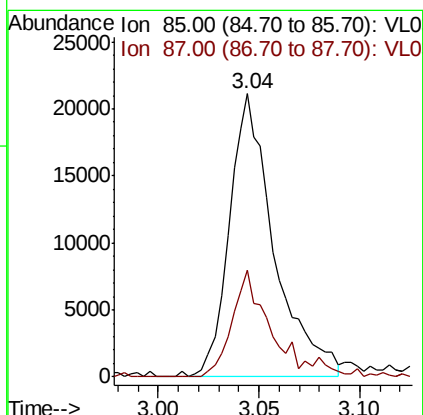
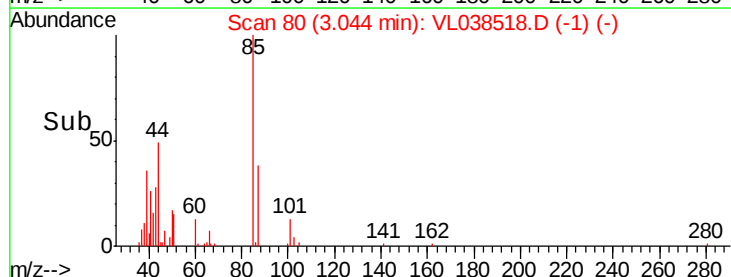
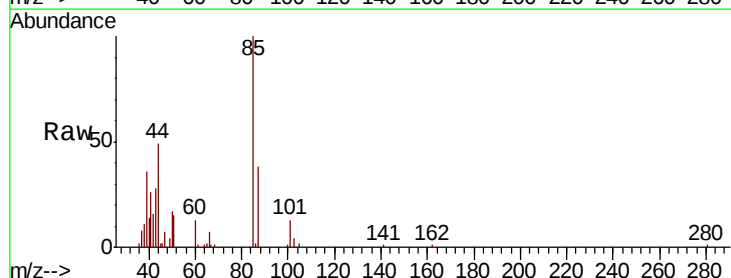
Acq: 3 Mar 2022 17:54

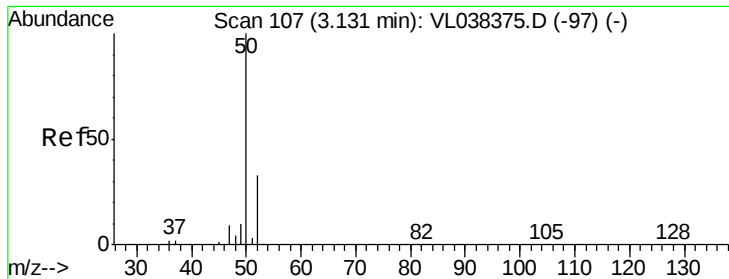
Tgt Ion: 85 Resp: 32750

Ion Ratio Lower Upper

85 100

87 37.5 27.4 41.0





#4

Chloromethane

Concen: 0.693 ppbv

RT: 3.13 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Mar 2022 17:54

Tot Ion:

Ion Ratio

50 100

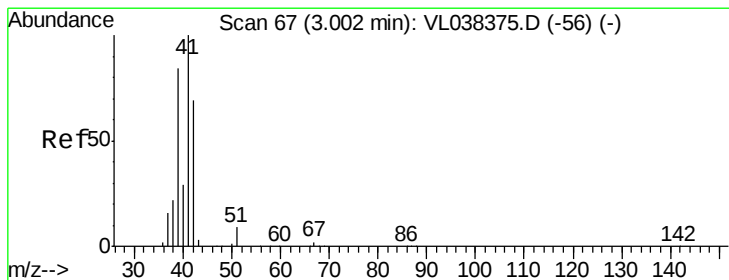
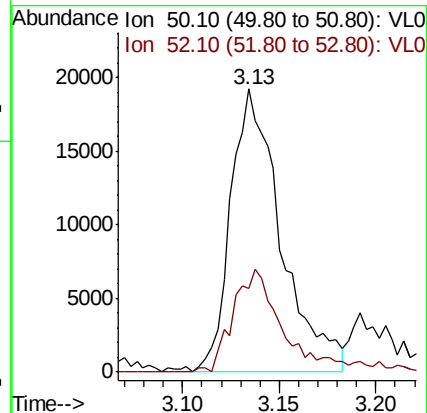
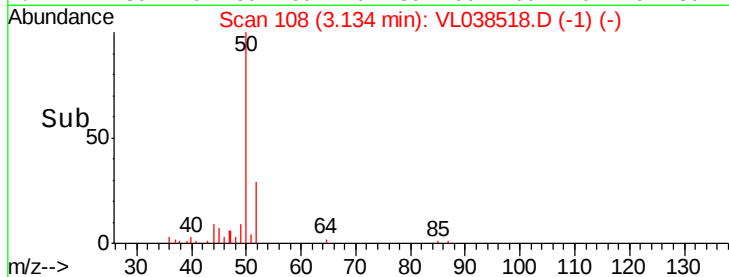
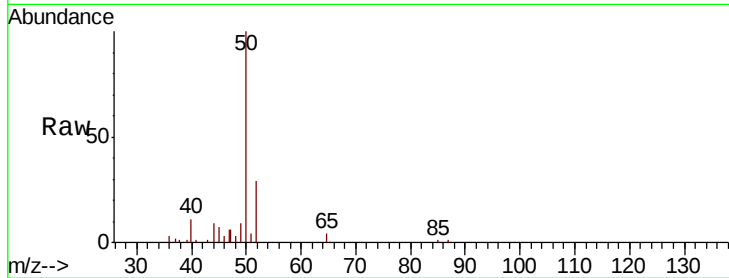
52 29.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/07/2022

Supervised By :Mahesh Dadoda 03/07/2022



#9

Propene

Concen: 1.347 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL038518.D

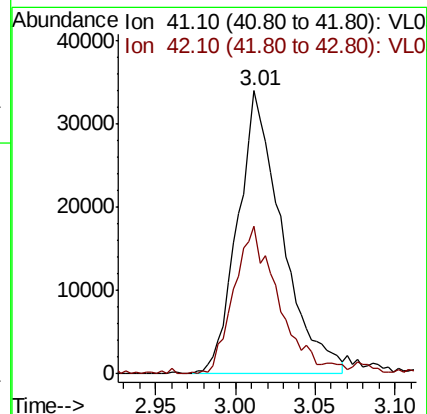
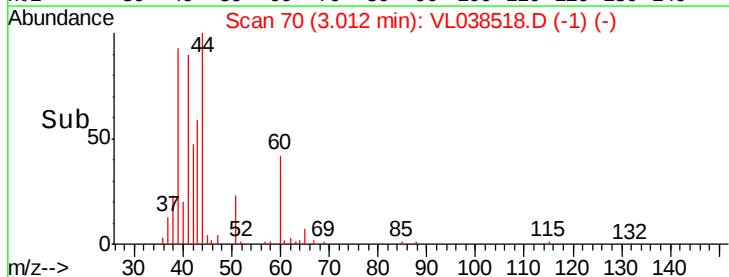
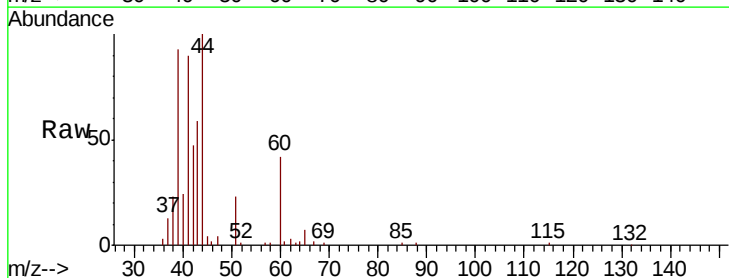
Acq: 3 Mar 2022 17:54

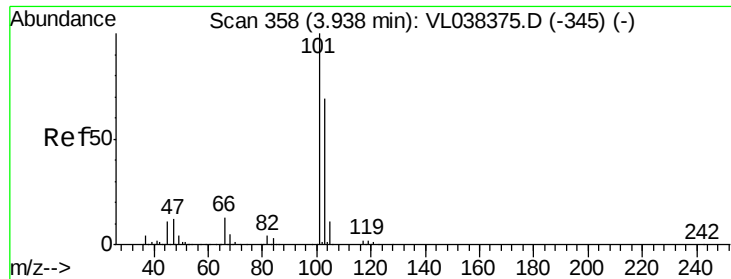
Tgt Ion: 41 Resp: 64290

Ion Ratio Lower Upper

41 100

42 55.8 54.6 82.0



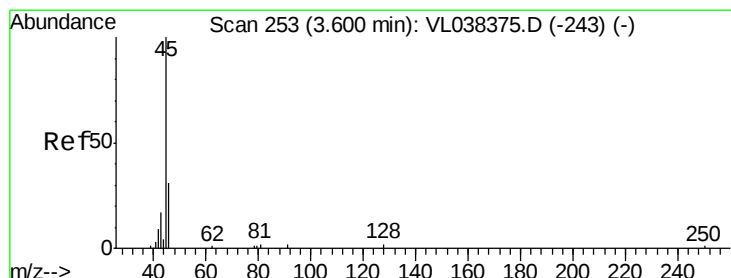
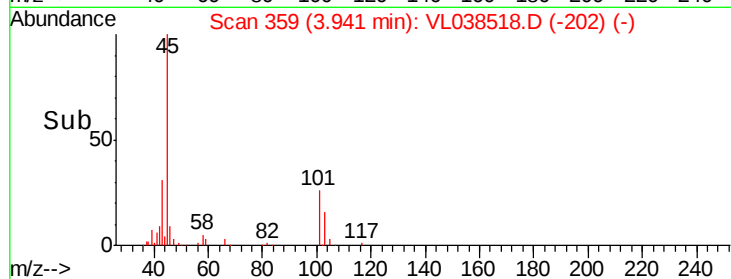
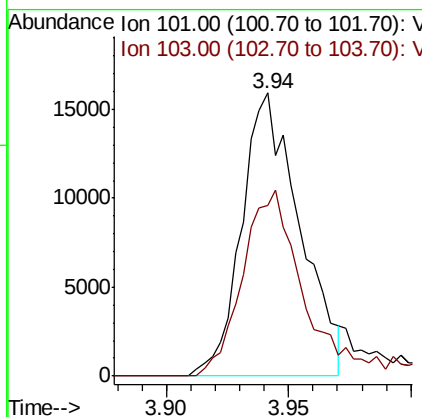
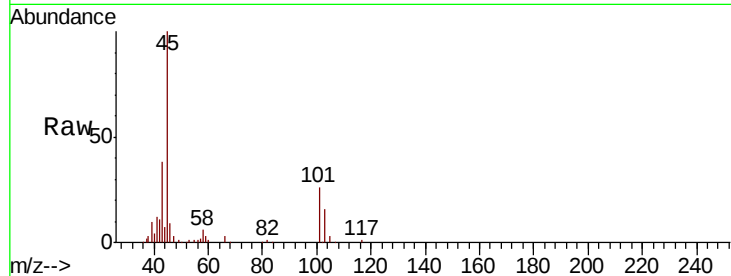


#11
 Trichlorofluoromethane
 Concen: 0.211 ppbv
 RT: 3.94
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Mar 2022 17:54

Tot Ion:1
 Ion Rati
 101 100
 103 60.

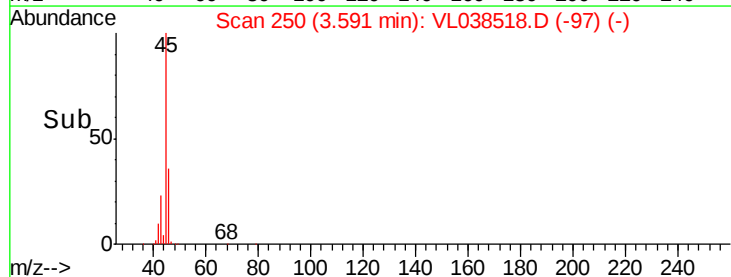
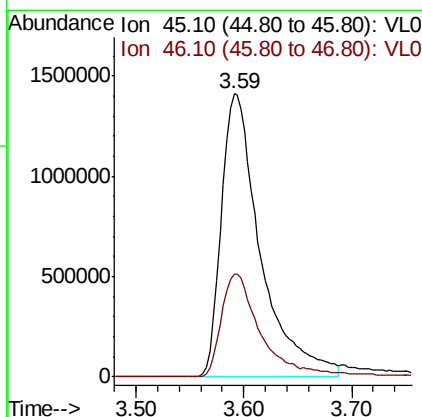
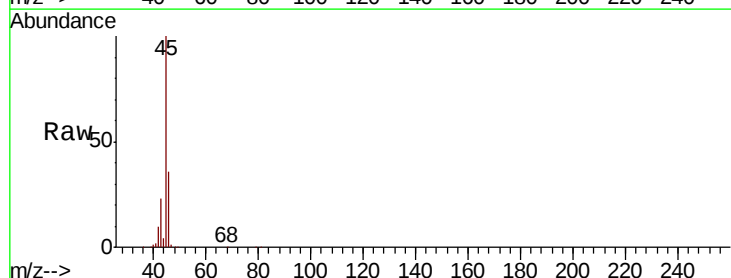
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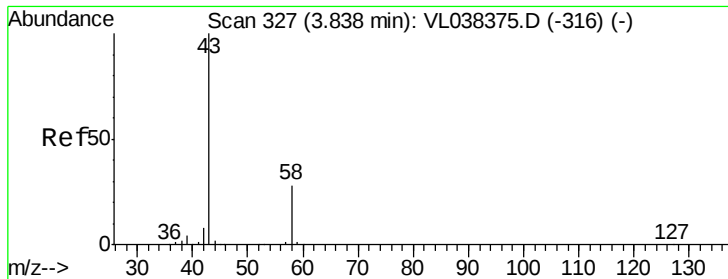
Reviewed By :Semsettin Yesilyurt 03/07/2022
 Supervised By :Mahesh Dadoda 03/07/2022



#13
 Ethanol
 Concen: 749.632 ppbv
 RT: 3.59 min Scan# 250
 Delta R.T. -0.01 min
 Lab File: VL038518.D
 Acq: 3 Mar 2022 17:54

Tgt Ion: 45 Resp: 3569958
 Ion Ratio Lower Upper
 45 100
 46 38.4 18.2 72.8





#15

Acetone

Concen: 7.384 ppbv m

RT: 3.84

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Mar 2022 17:54

Tot Ion:

Ion Ratio

43 100

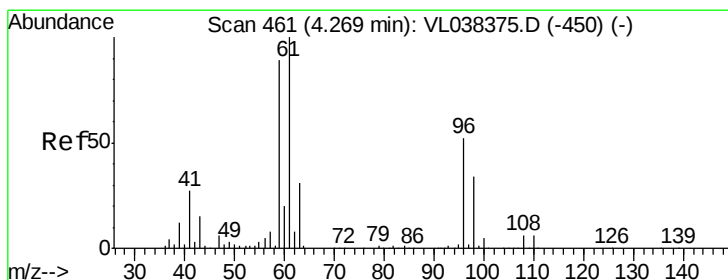
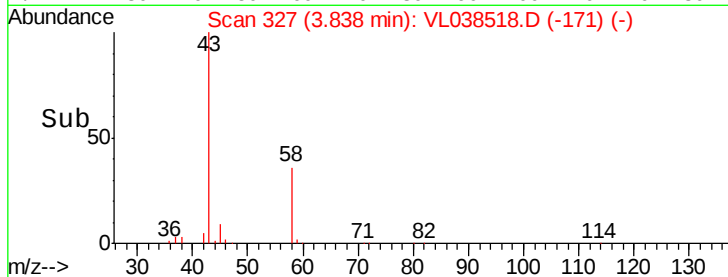
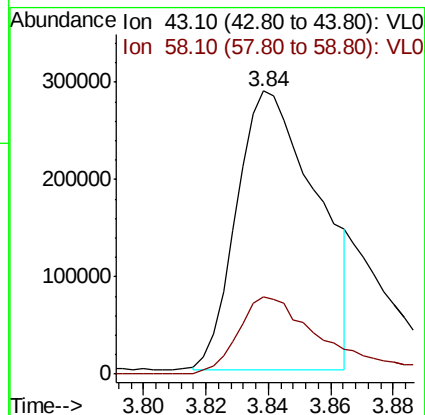
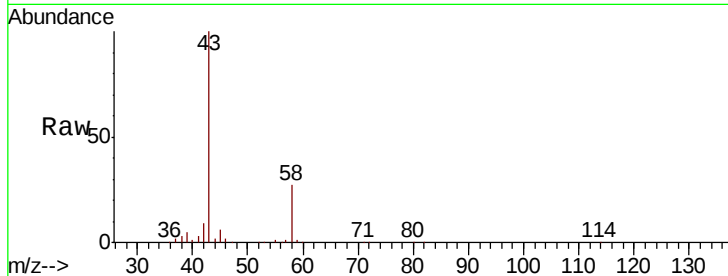
58 31.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/07/2022

Supervised By :Mahesh Dadoda 03/07/2022



#17

tert-Butyl alcohol

Concen: 0.281 ppbv m

RT: 4.29 min Scan# 468

Delta R.T. 0.02 min

Lab File: VL038518.D

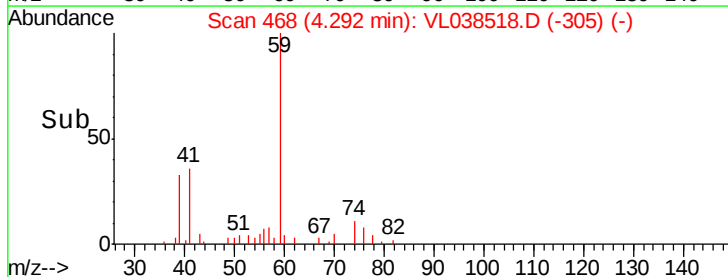
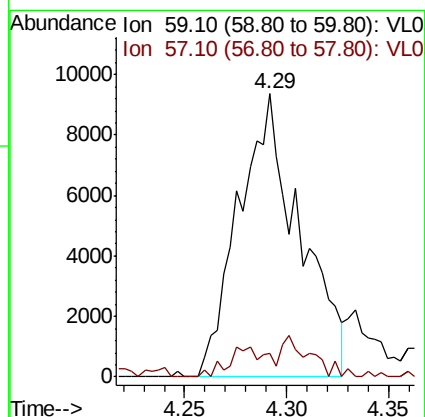
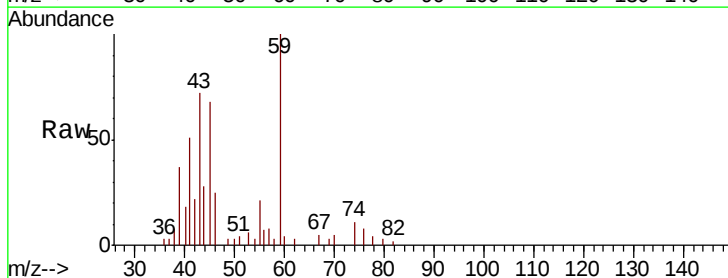
Acq: 3 Mar 2022 17:54

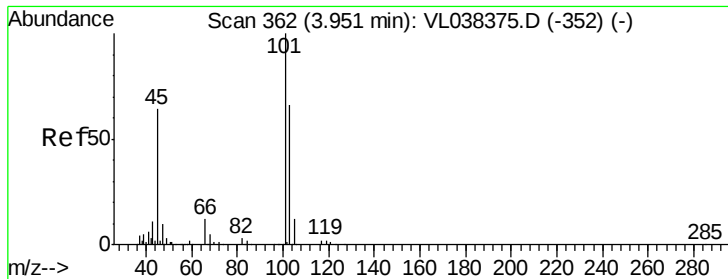
Tgt Ion: 59 Resp: 19500

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 8.754 ppbv

RT: 3.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Mar 2022 17:54

Tot Ion:

Ion Ratio

45 100

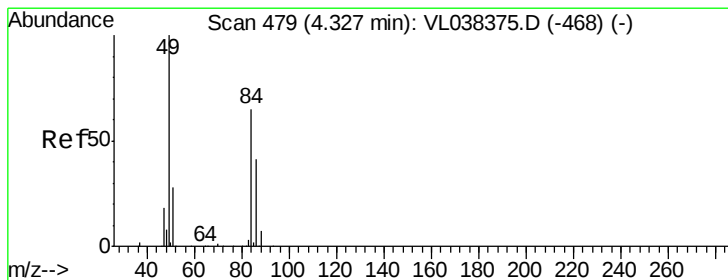
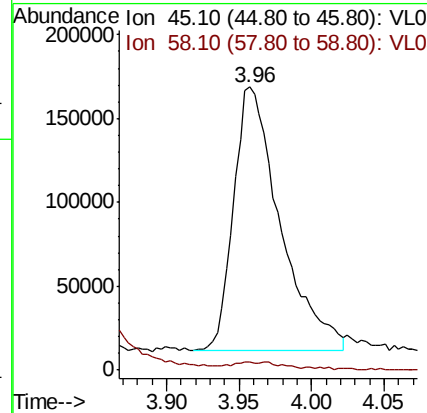
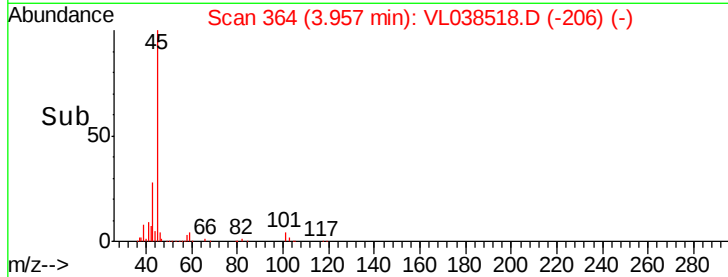
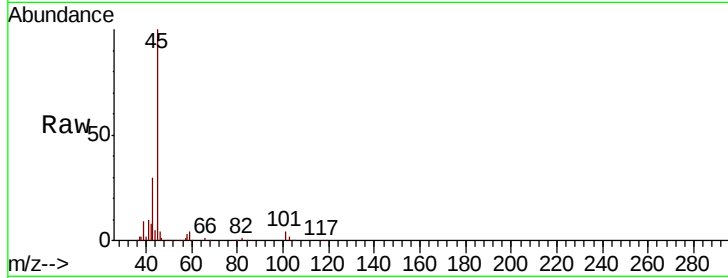
58 4.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/07/2022

Supervised By :Mahesh Dadoda 03/07/2022



#20

Methylene Chloride

Concen: 2.615 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.01 min

Lab File: VL038518.D

Acq: 3 Mar 2022 17:54

Tgt Ion: 84 Resp: 90174

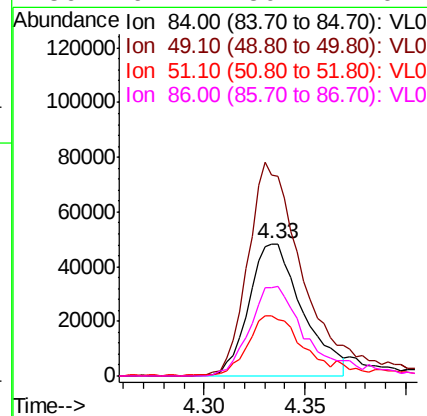
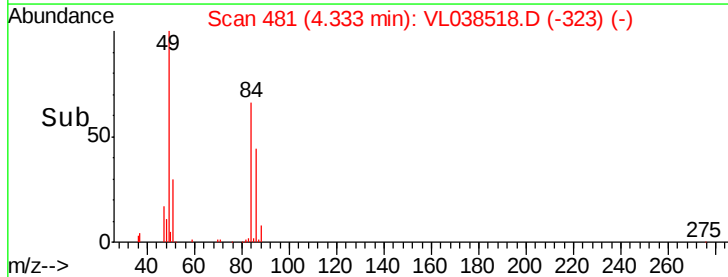
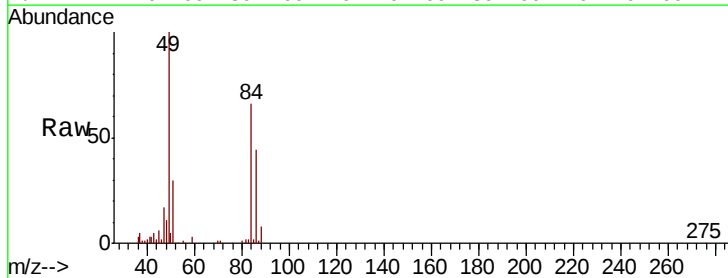
Ion Ratio Lower Upper

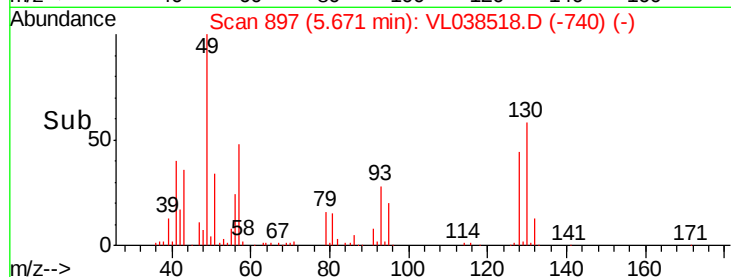
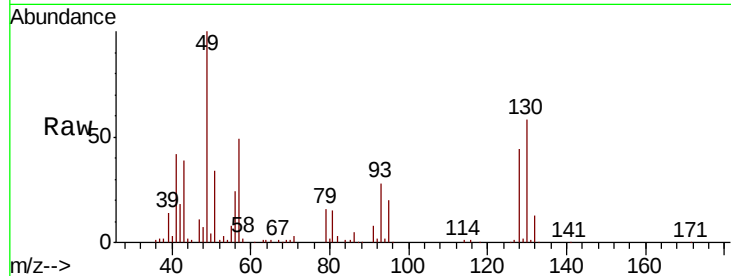
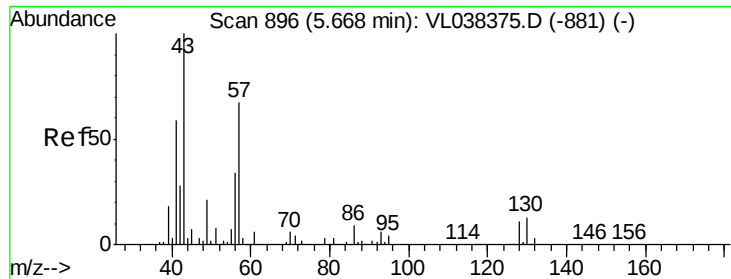
84 100

49 151.9 122.4 183.6

51 44.4 33.3 49.9

86 67.2 50.7 76.1



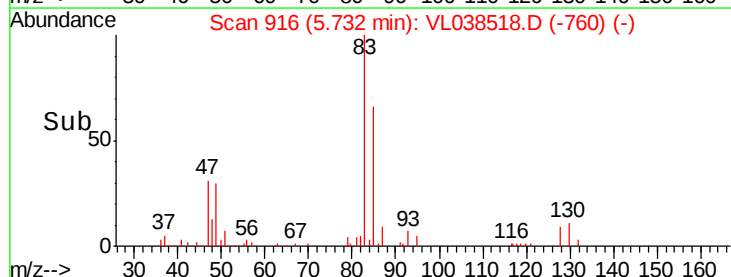
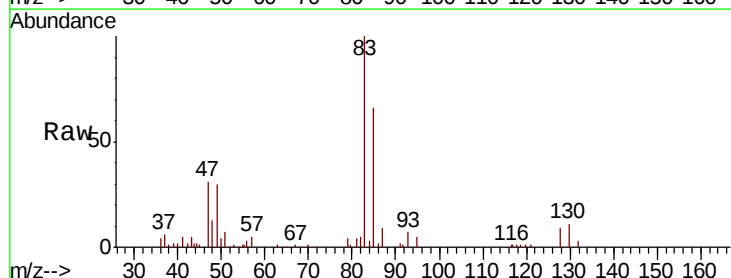
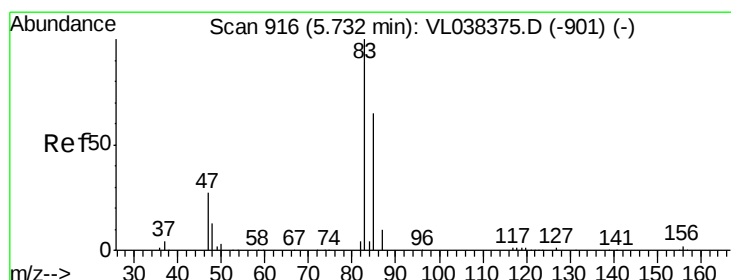
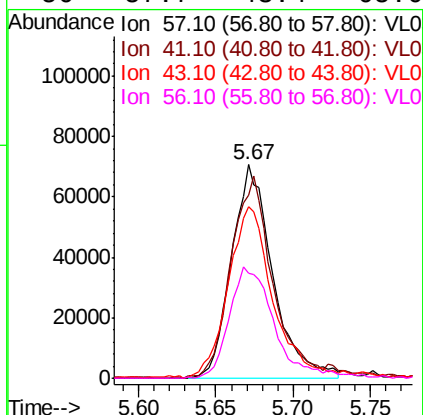


#26
Hexane
Concen: 1.541 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Mar 2022 17:54

Tot Ion:
Ion Ratio
57 100
41 100.
43 88.
56 57.7 43.4 65.0

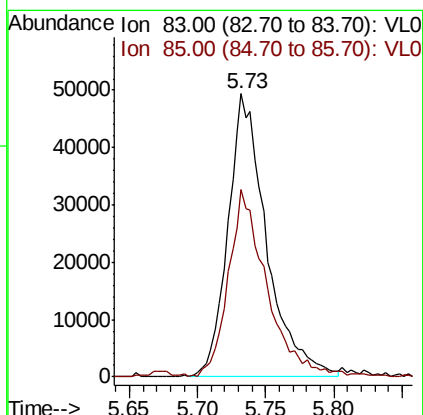
Manual Integrations
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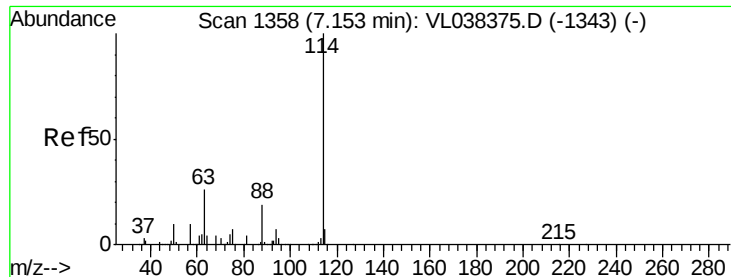
Reviewed By :Semsettin Yesilyurt 03/07/2022
Supervised By :Mahesh Dadoda 03/07/2022



#29
Chloroform
Concen: 0.703 ppbv
RT: 5.73 min Scan# 916
Delta R.T. 0.00 min
Lab File: VL038518.D
Acq: 3 Mar 2022 17:54

Tgt Ion: 83 Resp: 97216
Ion Ratio Lower Upper
83 100
85 66.1 51.6 77.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Mar 2022 17:54

Tot Ion:1

Ion Rati

114 100

63 28.

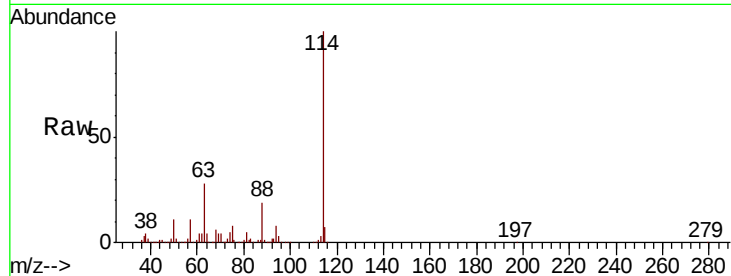
88 18.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/07/2022

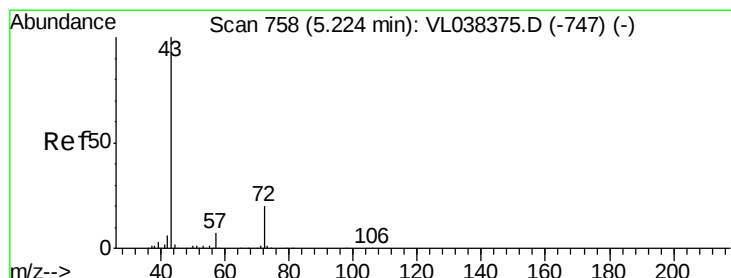
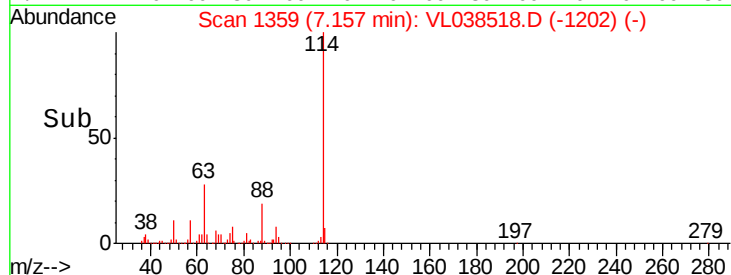
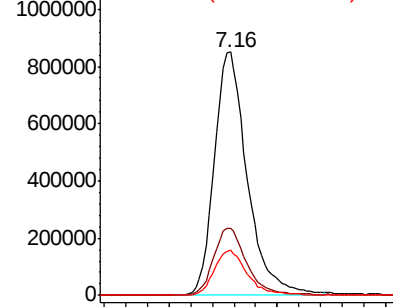
Supervised By :Mahesh Dadoda 03/07/2022



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.844 ppbv

RT: 5.24 min Scan# 762

Delta R.T. 0.01 min

Lab File: VL038518.D

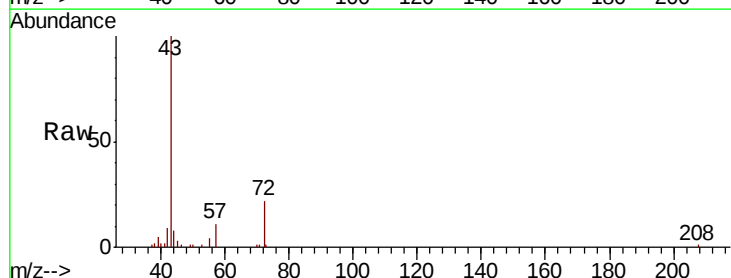
Acq: 3 Mar 2022 17:54

Tgt Ion: 43 Resp: 48144

Ion Ratio Lower Upper

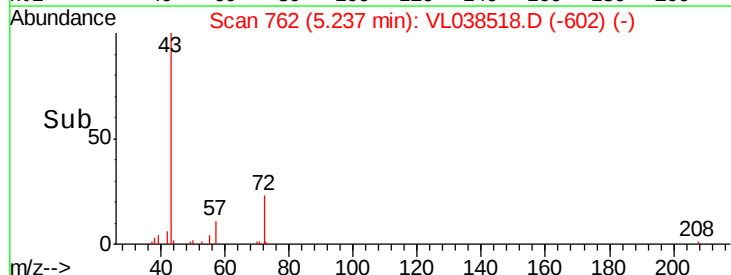
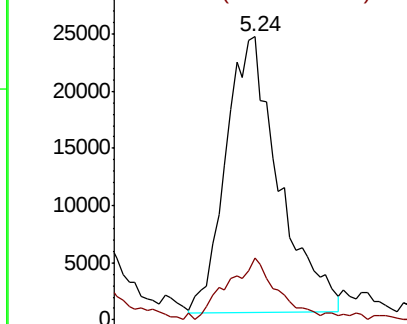
43 100

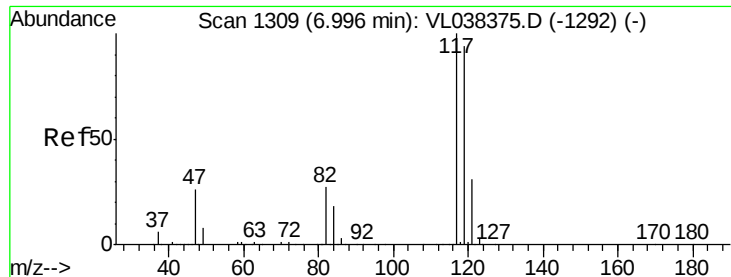
72 23.4 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.068 ppbv m

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

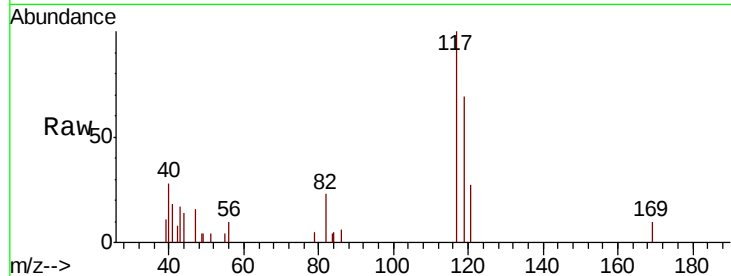
Lab File: ClientSampleId:

Acq: 3 Mar 2022 17:54

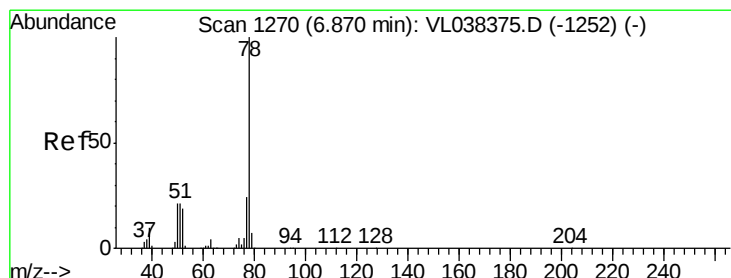
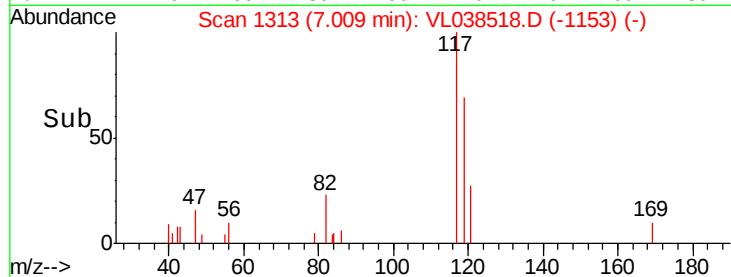
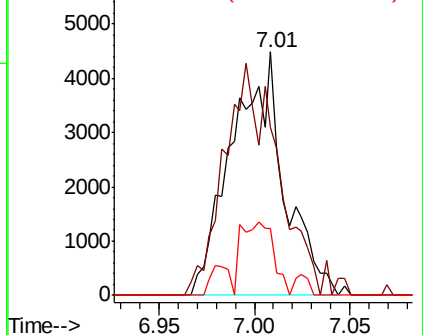
Tot Ion:1
Ion Rati
117 100
119 69.
121 27.

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/07/2022
Supervised By :Mahesh Dadoda 03/07/2022



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.268 ppbv

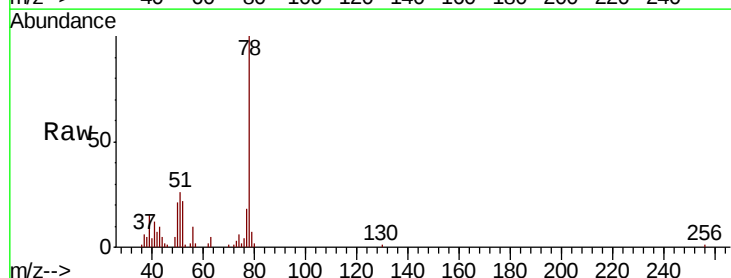
RT: 6.87 min Scan# 1269

Delta R.T. -0.00 min

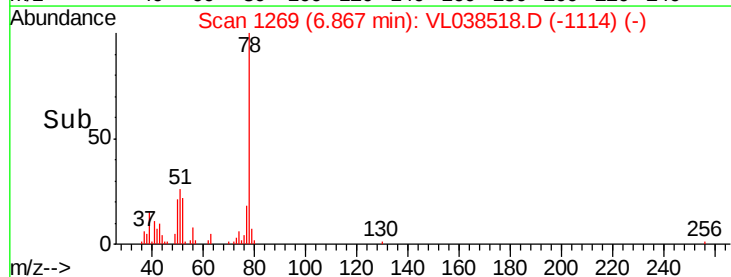
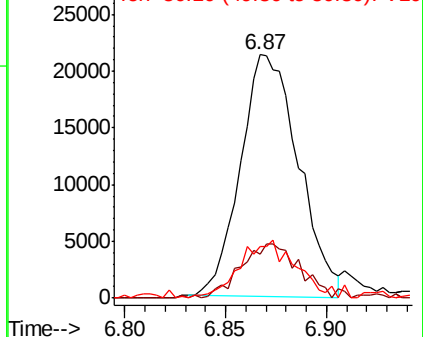
Lab File: VL038518.D

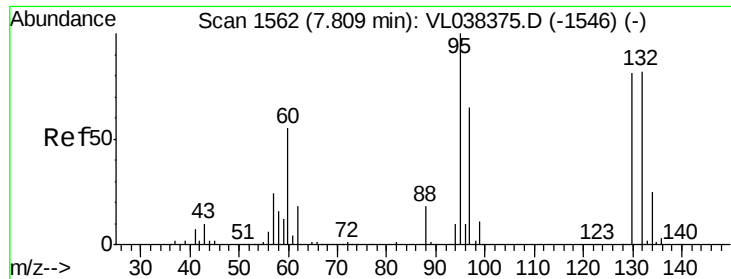
Acq: 3 Mar 2022 17:54

Tgt Ion: 78 Resp: 42785
Ion Ratio Lower Upper
78 100
77 18.4 19.0 28.6#
50 21.4 16.6 24.8



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





#38

Trichloroethene

Concen: 0.107 ppbv m

RT: 7.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Mar 2022 17:54

Tot Ion:1

Ion Rati

130 100

95 112.

132 86.

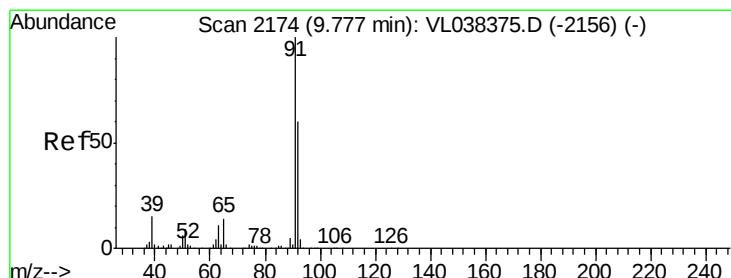
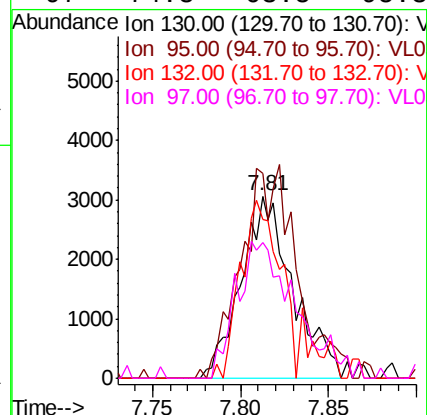
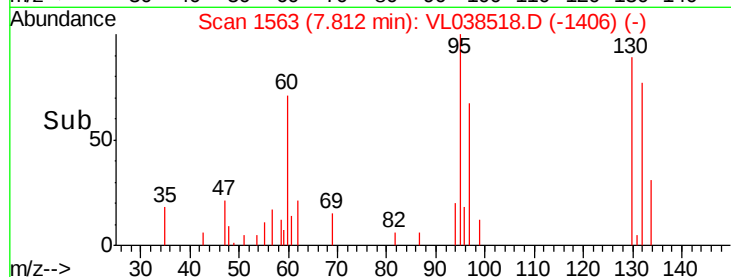
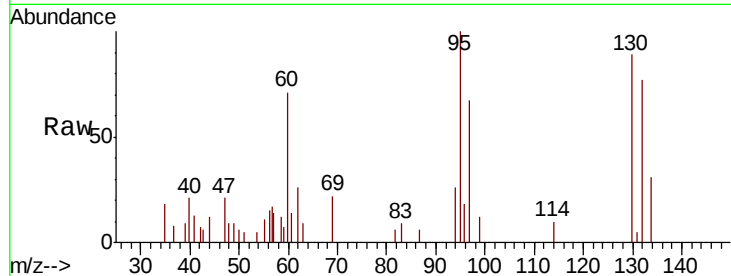
97 74.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/07/2022

Supervised By :Mahesh Dadoda 03/07/2022



#53

Toluene

Concen: 0.609 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.01 min

Lab File: VL038518.D

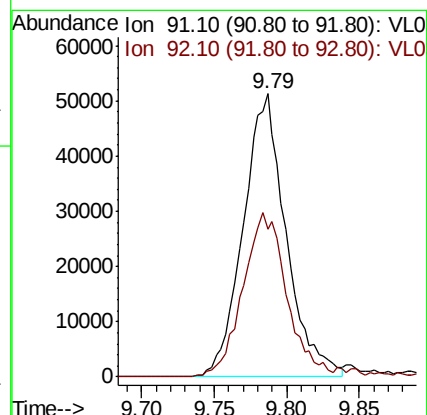
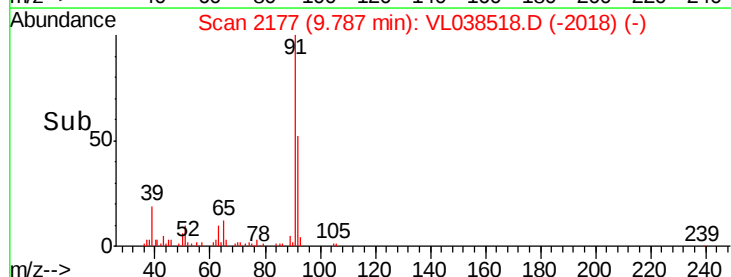
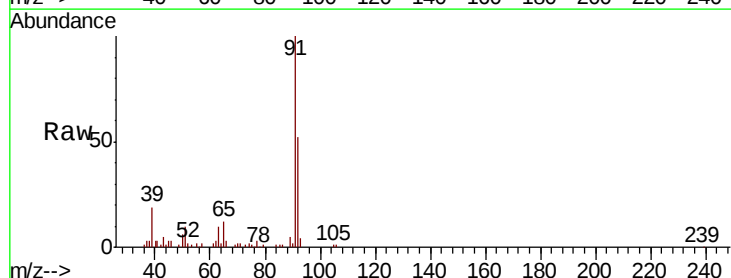
Acq: 3 Mar 2022 17:54

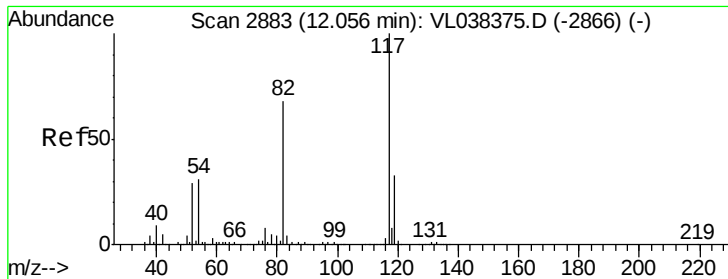
Tgt Ion: 91 Resp: 105503

Ion Ratio Lower Upper

91 100

92 61.9 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Mar 2022 17:54

Tot Ion:1

Ion Rati

117 100

82 74.

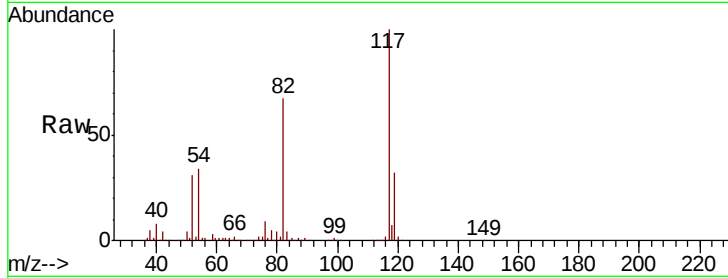
119 34.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/07/2022

Supervised By :Mahesh Dadoda 03/07/2022



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

12.06

800000

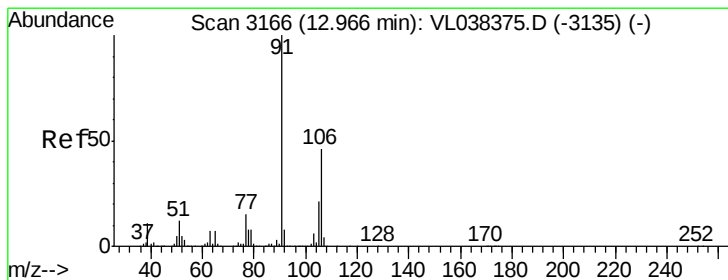
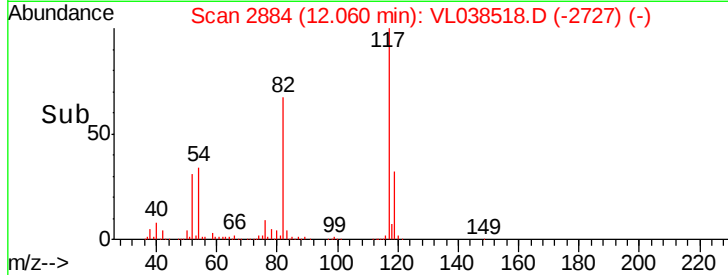
600000

400000

200000

0

Time-->



#59

m/p-Xylene

Concen: 0.166 ppbv m

RT: 12.95 min Scan# 3160

Delta R.T. -0.02 min

Lab File: VL038518.D

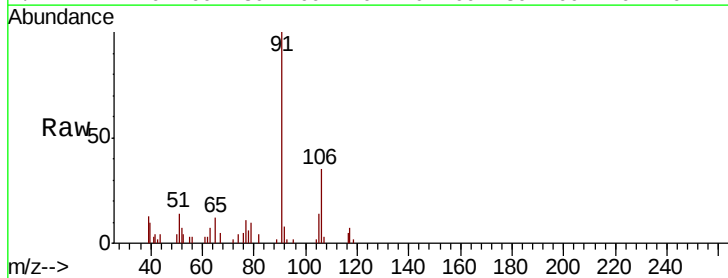
Acq: 3 Mar 2022 17:54

Tgt Ion: 91 Resp: 30384

Ion Ratio Lower Upper

91 100

106 0.0 34.4 51.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.95

10000

8000

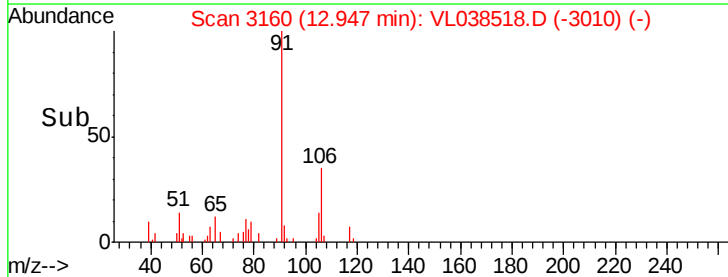
6000

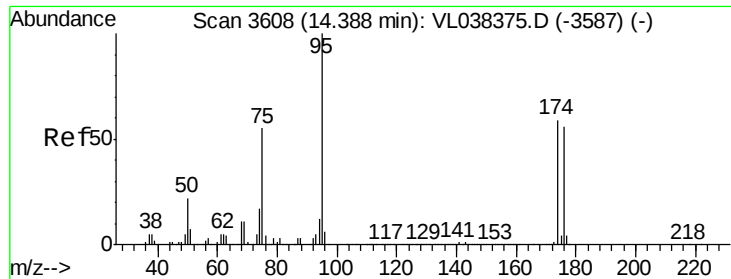
4000

2000

0

Time-->





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.884 ppbv
 RT: 14.39
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Mar 2022 17:34

Tot Ion:
 Ion Rati
 95 100
 174 61.
 175 4.

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/07/2022
 Supervised By :Mahesh Dadoda 03/07/2022

