

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
 Data File : VL038850.D
 Acq On : 7 Apr 2022 20:52
 Operator : SY/AP
 Sample : N2273-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 1160-1-SG-1

Manual Integrations
 APPROVED

Quant Time: Apr 08 09:18:37 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Wed Apr 06 06:12:53 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1293301	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	7.21	114	3097660	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.12	117	2720001	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2194870	10.64	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.08	85	64731	0.353	ppbv	94
3) Chlorodifluoromethane	3.01	51	58525m	0.371	ppbv	
4) Chloromethane	3.17	50	56380	0.690	ppbv	97
9) Propene	3.05	41	4802790m	57.513	ppbv	
10) Heptane	8.15	43	712784	3.389	ppbv	97
11) Trichlorofluoromethane	3.98	101	43671	0.296	ppbv	95
13) Ethanol	3.63	45	1148718	226.353	ppbv #	100
15) Acetone	3.88	43	36305853	281.966	ppbv #	59
17) tert-Butyl alcohol	4.34	59	12692m	0.110	ppbv	
19) Isopropyl Alcohol	3.99	45	796247	12.099	ppbv #	100
20) Methylene Chloride	4.38	84	822163	17.606	ppbv	95
26) Hexane	5.72	57	1026429	6.902	ppbv #	46
30) Cyclohexane	7.16	84	159859	1.220	ppbv	97
34) 2-Butanone	5.28	43	375000	3.064	ppbv	96
35) Carbon Tetrachloride	7.06	117	13469m	0.073	ppbv	
36) Benzene	6.93	78	265588	0.942	ppbv	95
44) 2,2,4-Trimethylpentane	7.90	57	1587039	3.326	ppbv #	81
50) 4-Methyl-2-Pentanone	8.77	43	722718	2.625	ppbv	99
52) Tetrachloroethene	11.26	164	102495m	1.041	ppbv	
53) Toluene	9.84	91	1891012	5.813	ppbv	100
58) Ethyl Benzene	12.74	91	1898620	4.671	ppbv	94
59) m/p-Xylene	13.00	91	5647633	16.539	ppbv	98
60) o-Xylene	13.72	91	2014710	6.305	ppbv	94
61) Styrene	13.56	104	69748m	0.358	ppbv	
62) Isopropylbenzene	14.69	105	121549m	0.253	ppbv	
65) tert-Butylbenzene	16.79	119	225011m	0.529	ppbv	
70) n-Butylbenzene	18.58	91	79501	0.161	ppbv #	45
72) 4-Ethyltoluene	15.87	105	754291	1.977	ppbv	98
73) 1,3,5-Trimethylbenzene	16.02	105	672775	1.963	ppbv	86
74) 1,2,4-Trimethylbenzene	16.79	105	2043532	5.640	ppbv #	71

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

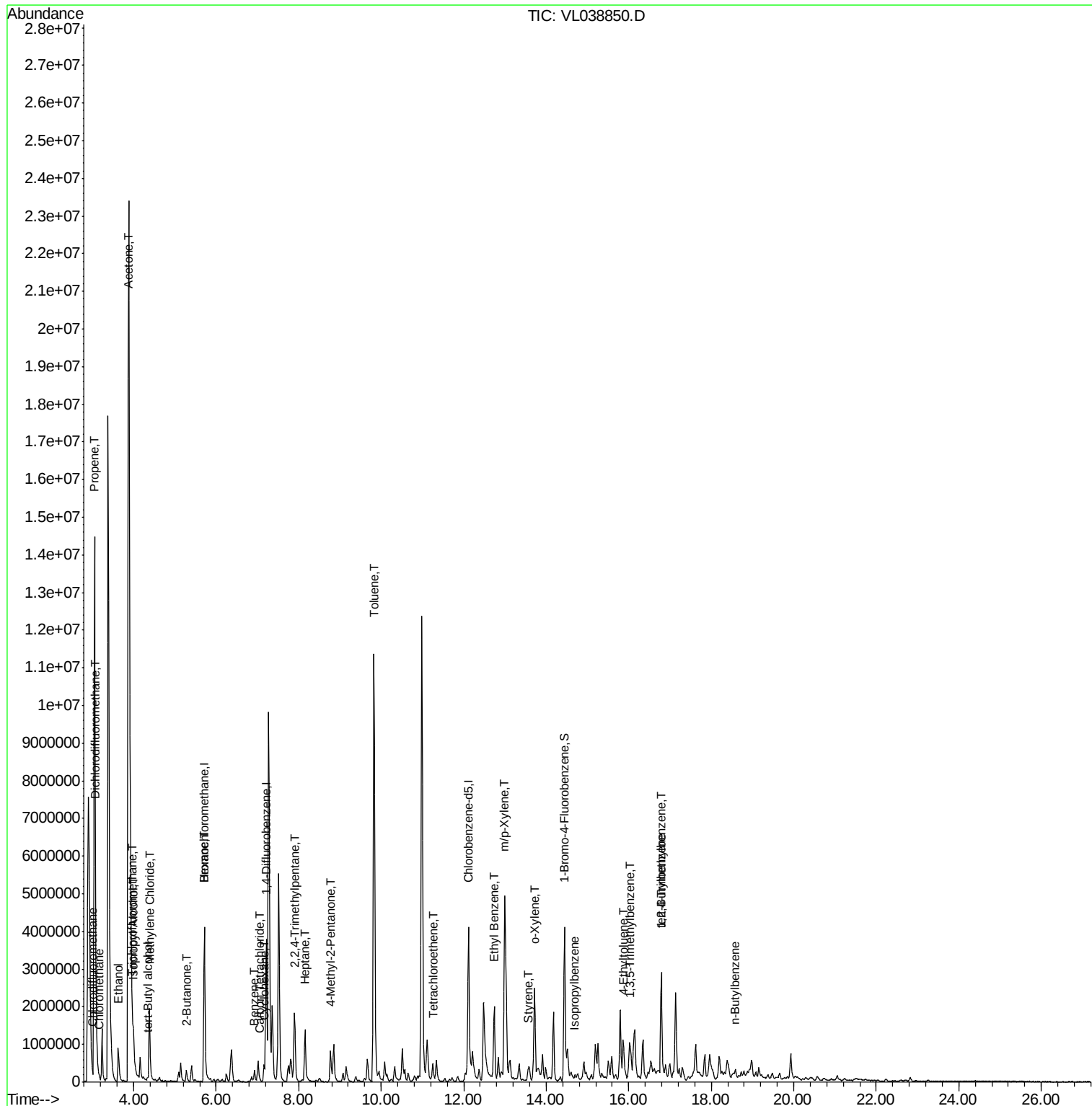
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
Data File : VL038850.D
Acq On : 7 Apr 2022 20:52
Operator : SY/AP
Sample : N2273-04
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

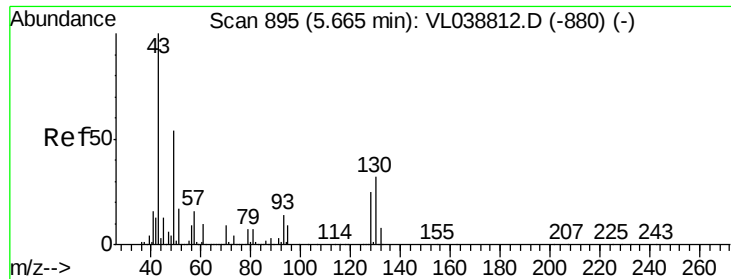
Instrument :
MSVOA_L
ClientSampleId :
1160-1-SG-1

Quant Time: Apr 08 09:18:37 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 20:52

Tot Ion:

Ion Ratio

49 100

128 45.

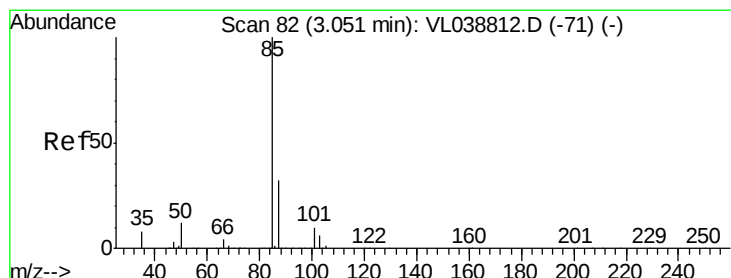
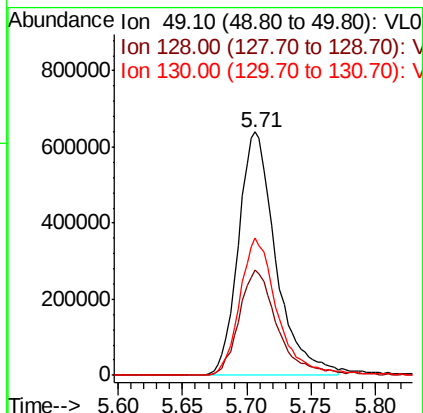
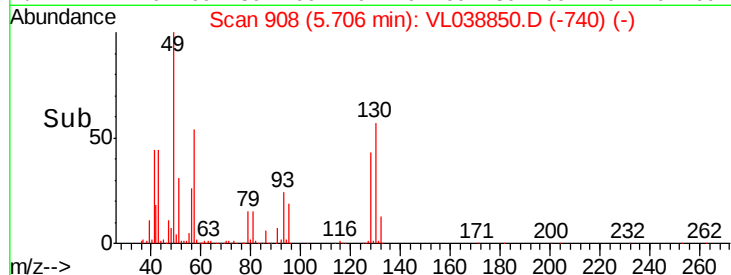
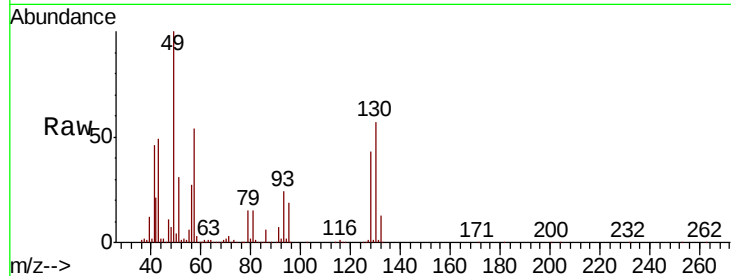
130 57.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#2

Dichlorodifluoromethane

Concen: 0.353 ppbv

RT: 3.08 min Scan# 91

Delta R.T. 0.03 min

Lab File: VL038850.D

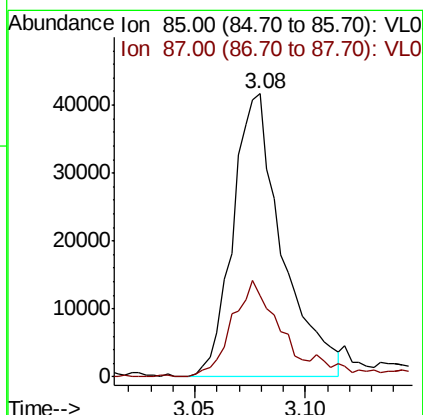
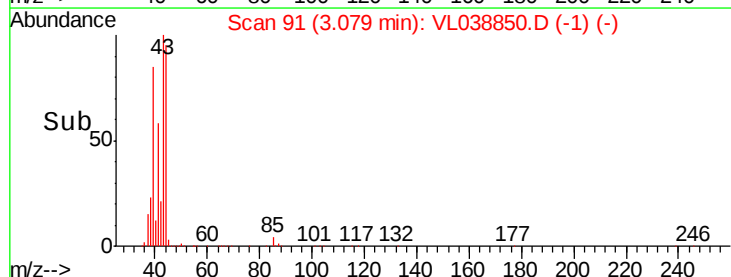
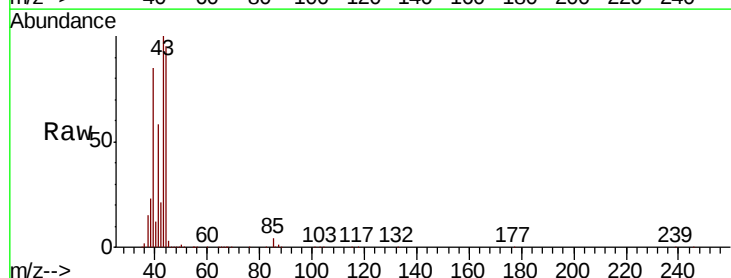
Acq: 7 Apr 2022 20:52

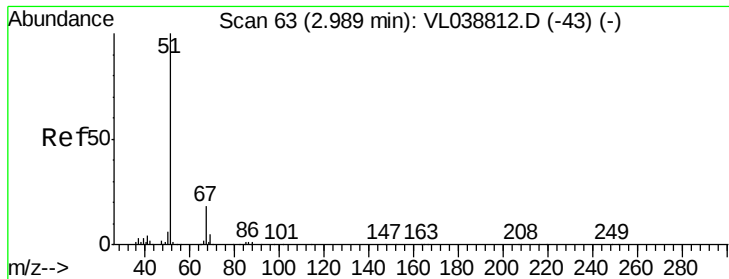
Tgt Ion: 85 Resp: 64731

Ion Ratio Lower Upper

85 100

87 28.8 25.9 38.9





#3

Chlorodifluoromethane

Concen: 0.371 ppbv m

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Apr 2022 20:52

Tot Ion:

Ion Ratio

51 100

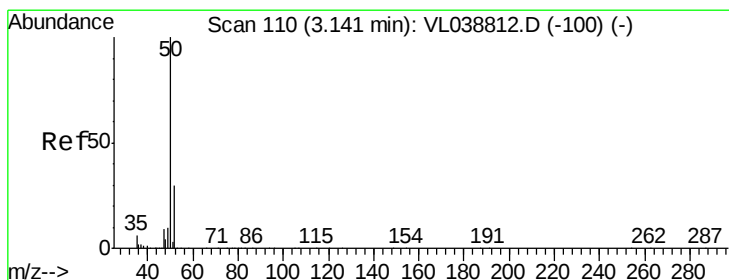
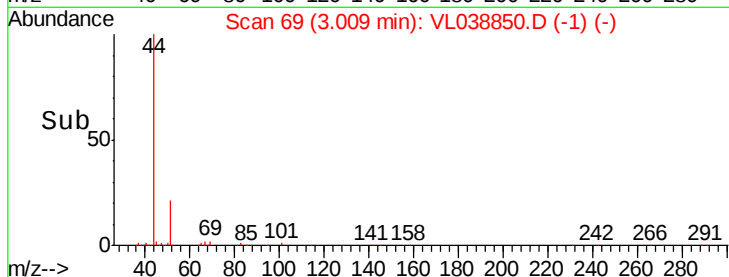
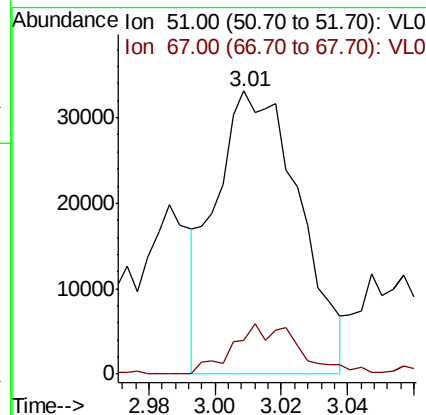
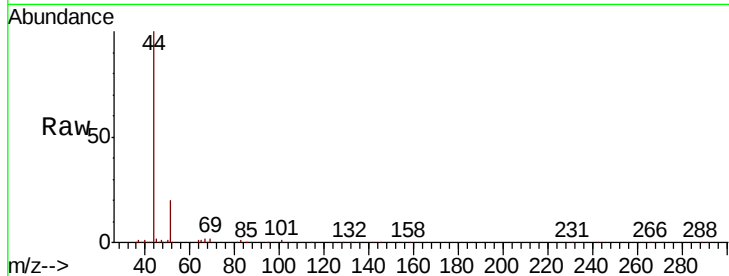
67 14.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#4

Chloromethane

Concen: 0.690 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.03 min

Lab File: VL038850.D

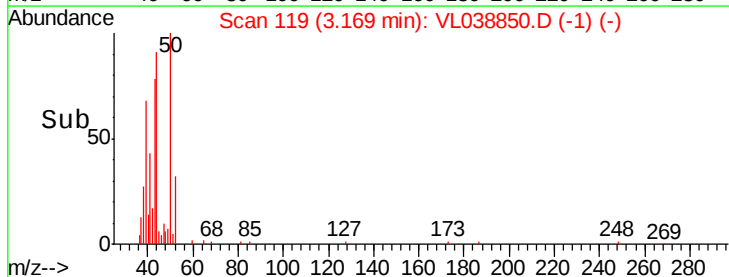
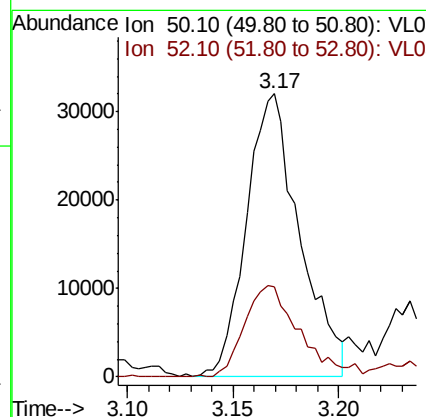
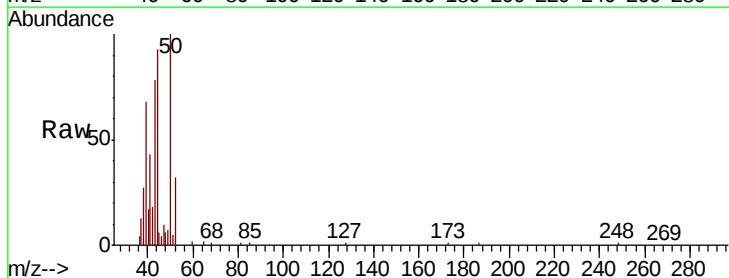
Acq: 7 Apr 2022 20:52

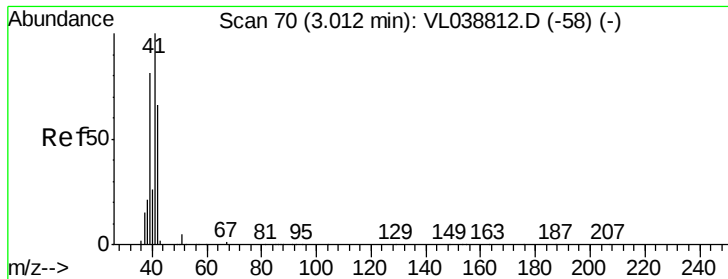
Tgt Ion: 50 Resp: 56380

Ion Ratio Lower Upper

50 100

52 31.8 24.3 36.5





#9

Propene

Concen: 57.513 ppbv m

RT: 3.05 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 20:52

Tot Ion:

Ion Ratio

41 100

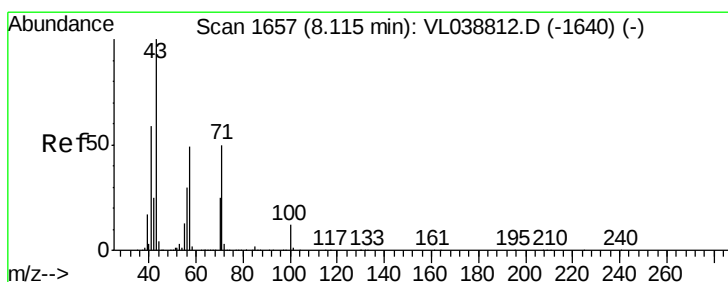
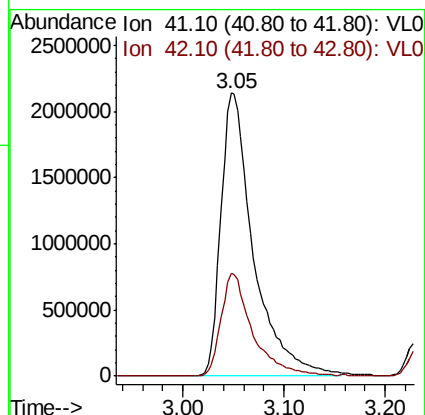
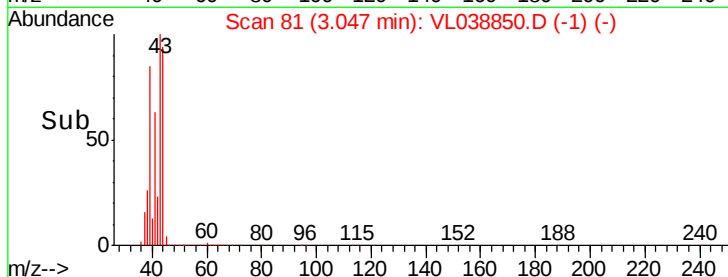
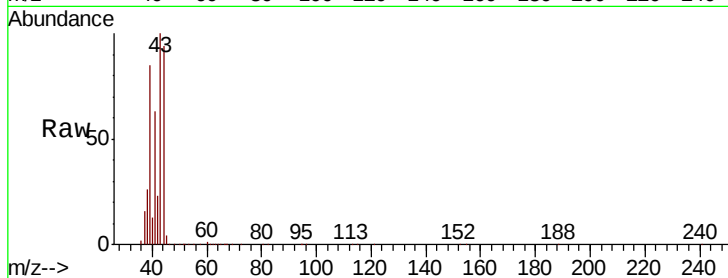
42 6.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#10

Heptane

Concen: 3.389 ppbv

RT: 8.15 min Scan# 1669

Delta R.T. 0.04 min

Lab File: VL038850.D

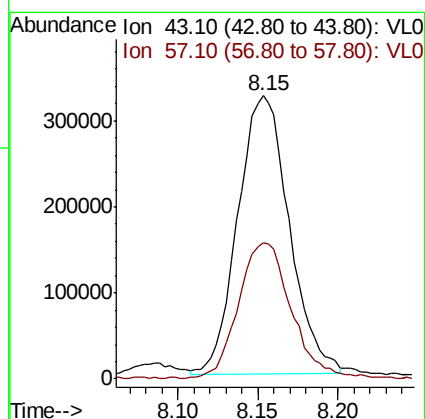
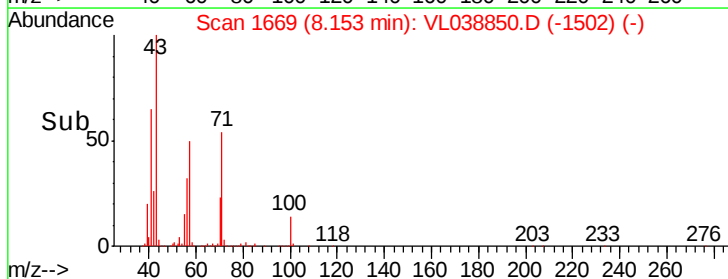
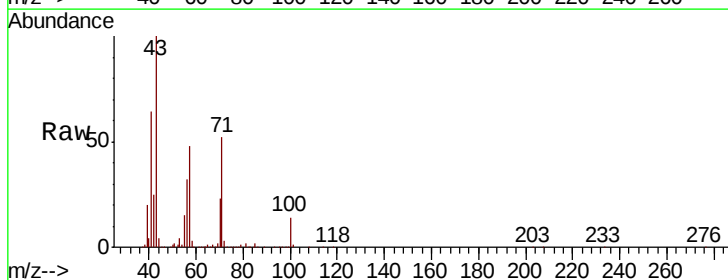
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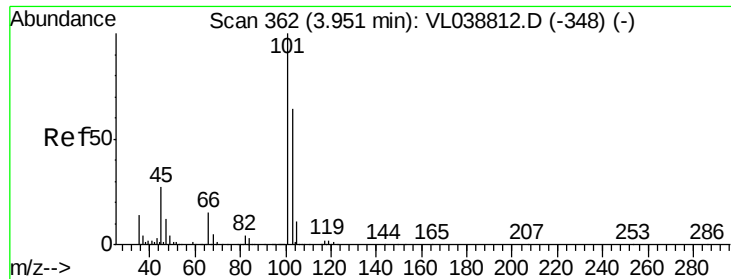
Tgt Ion: 43 Resp: 712784

Ion Ratio Lower Upper

43 100

57 51.5 39.3 58.9



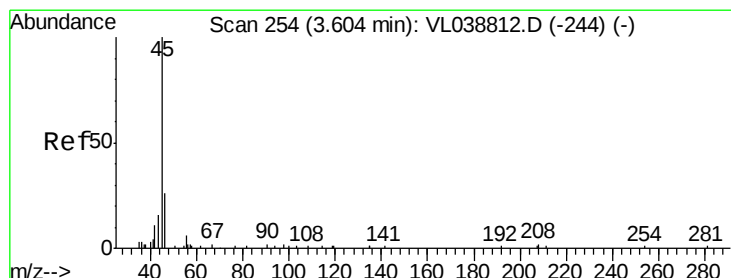
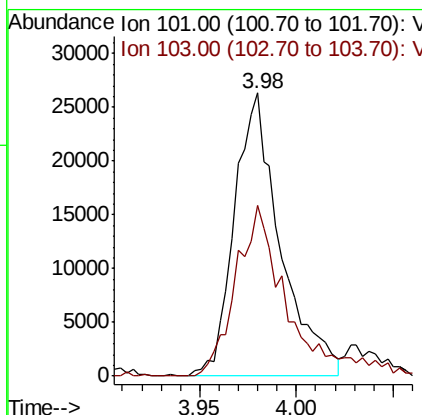
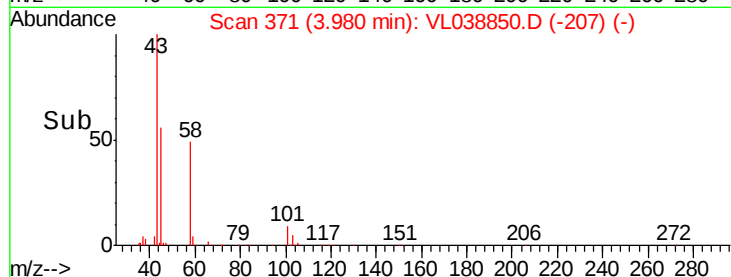
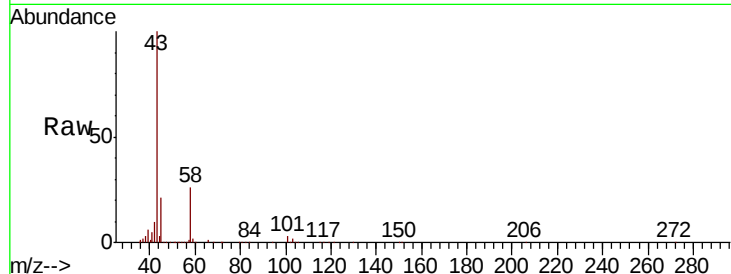


#11
Trichlorofluoromethane
Concen: 0.296 ppbv
RT: 3.98
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId : 1160-1-SG-1
Acq: 7 Apr 2022 20:52

Tot Ion:1
Ion Rati
101 100
103 60.

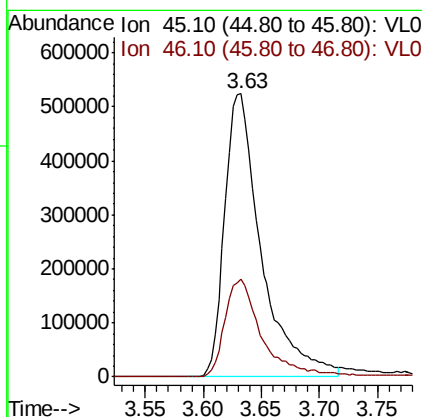
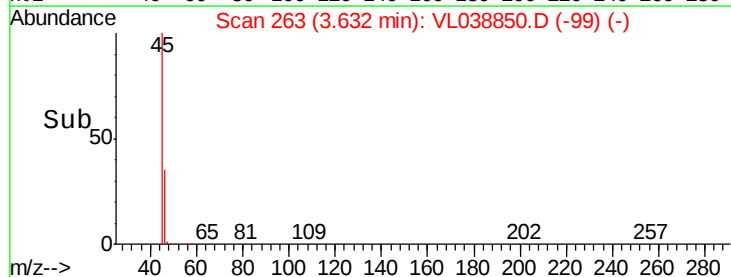
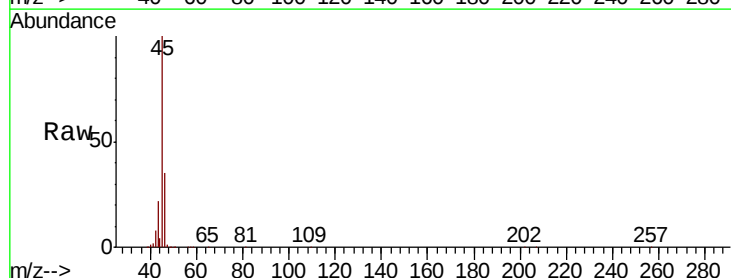
Manual Integrations
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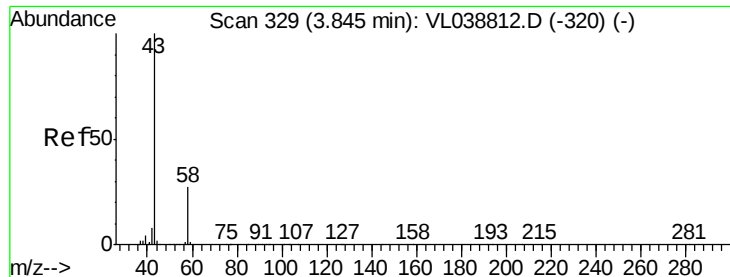
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#13
Ethanol
Concen: 226.353 ppbv
RT: 3.63 min Scan# 263
Delta R.T. 0.03 min
Lab File: VL038850.D
Acq: 7 Apr 2022 20:52

Tgt Ion: 45 Resp: 1148718
Ion Ratio Lower Upper
45 100
46 35.3 0.0 0.0#





#15

Acetone

Concen: 281.966 ppbv

RT: 3.88

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 20:52

Tot Ion:

Ion Ratio

43 100

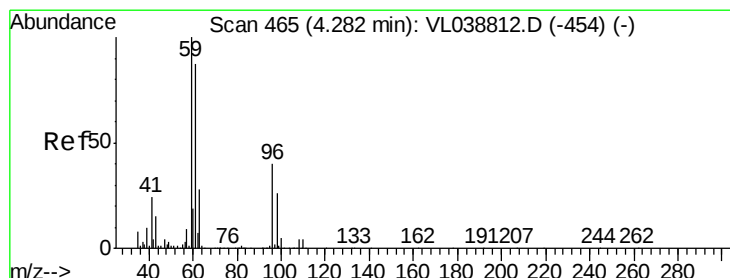
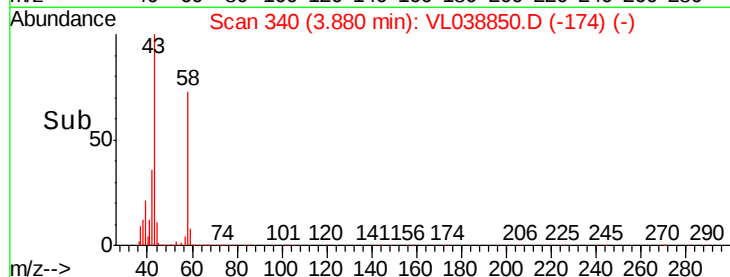
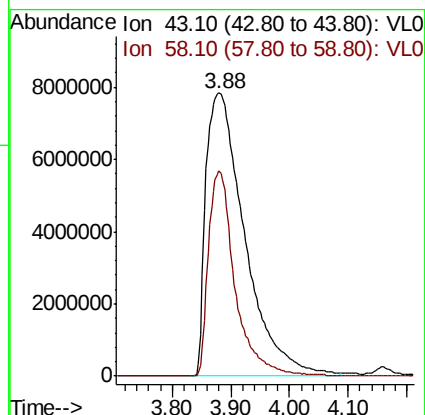
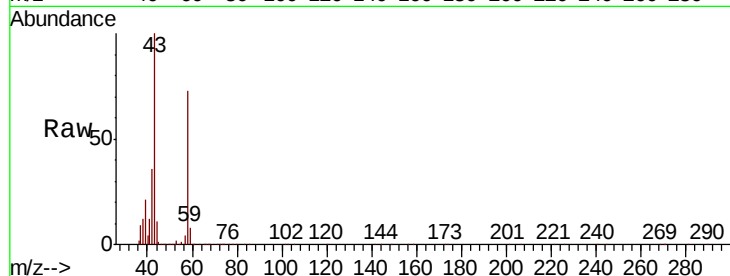
58 50.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#17

tert-Butyl alcohol

Concen: 0.110 ppbv m

RT: 4.34 min Scan# 482

Delta R.T. 0.05 min

Lab File: VL038850.D

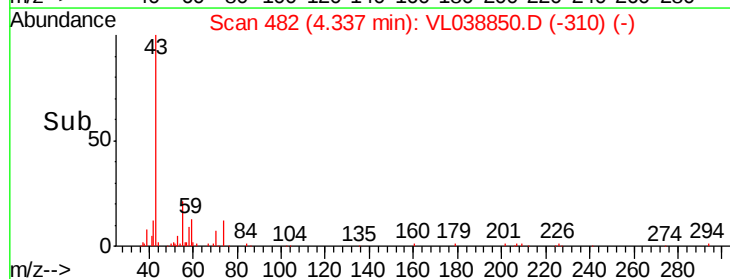
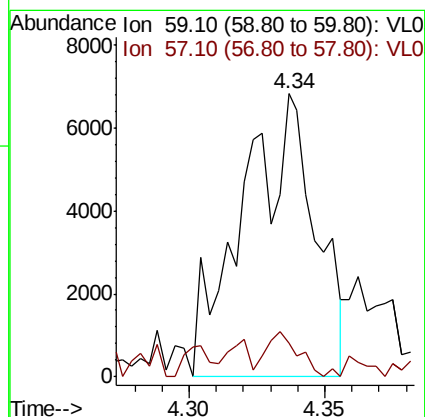
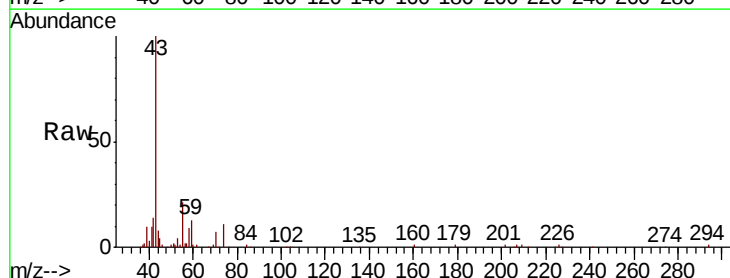
Acq: 7 Apr 2022 20:52

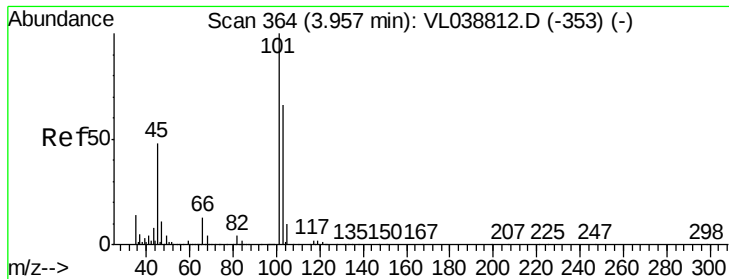
Tgt Ion: 59 Resp: 12692

Ion Ratio Lower Upper

59 100

57 448.8 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 12.099 ppbv

RT: 3.99 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 7 Apr 2022 20:52

Tot Ion:

Ion Ratio

45 100

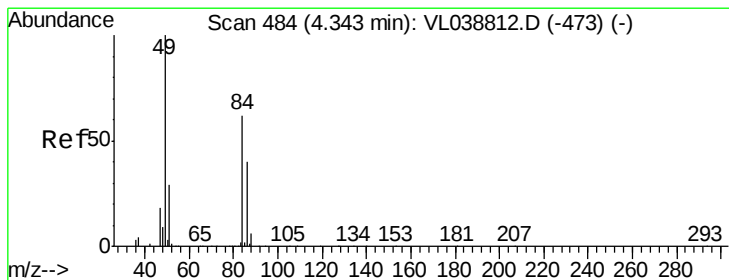
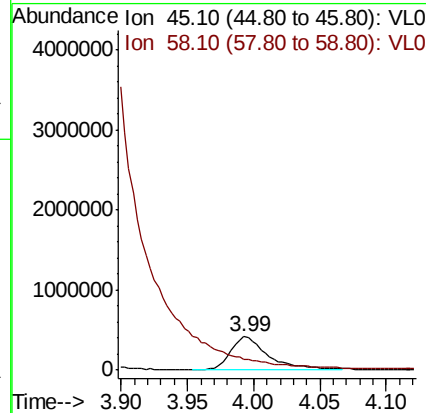
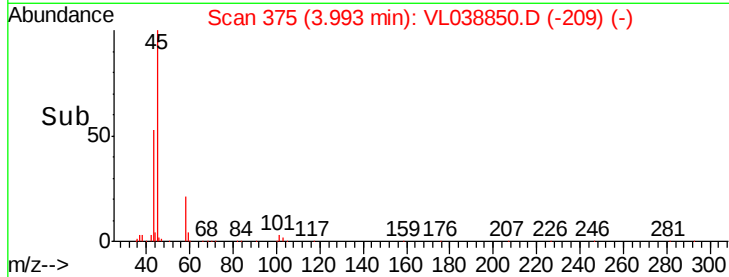
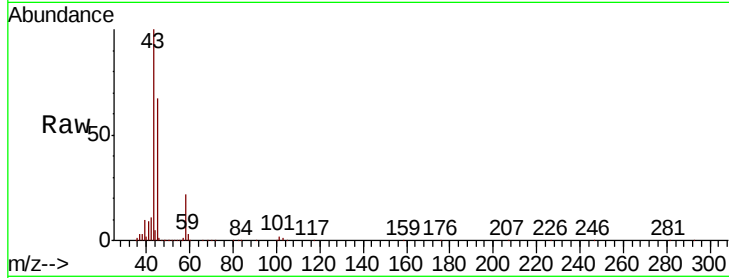
58 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#20

Methylene Chloride

Concen: 17.606 ppbv

RT: 4.38 min Scan# 496

Delta R.T. 0.04 min

Lab File: VL038850.D

Acq: 7 Apr 2022 20:52

Tgt Ion: 84 Resp: 822163

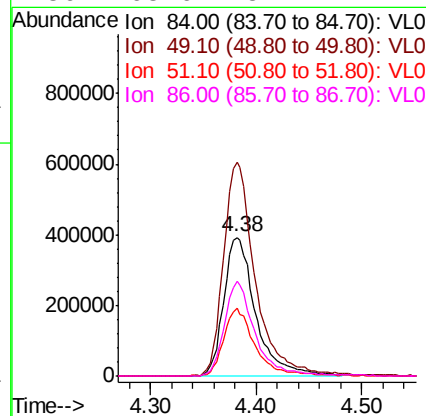
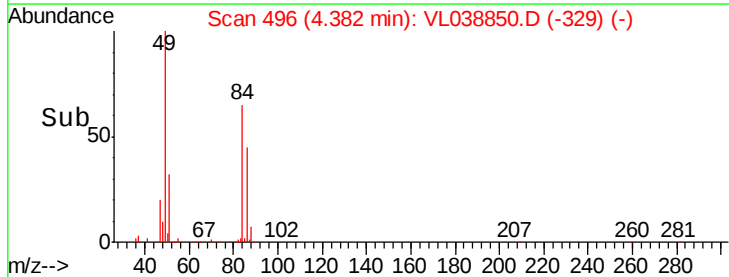
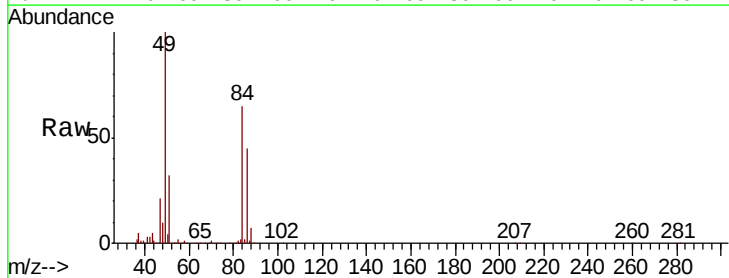
Ion Ratio Lower Upper

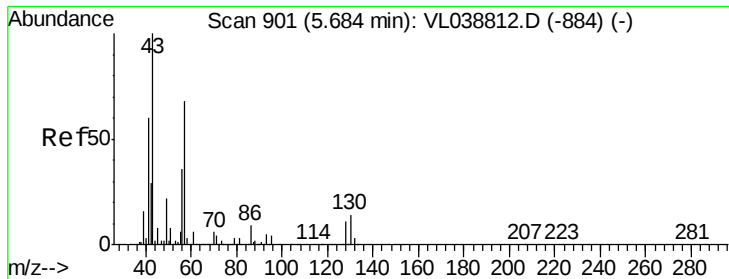
84 100

49 154.0 129.4 194.0

51 48.1 37.4 56.2

86 68.6 51.4 77.2



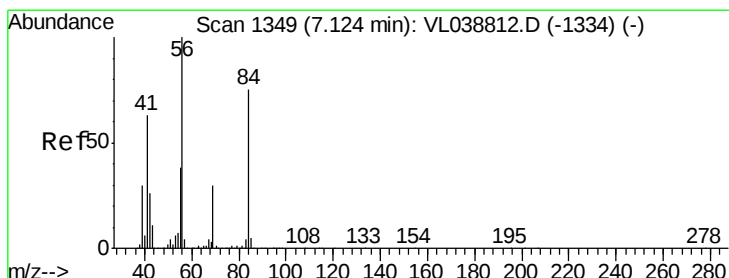
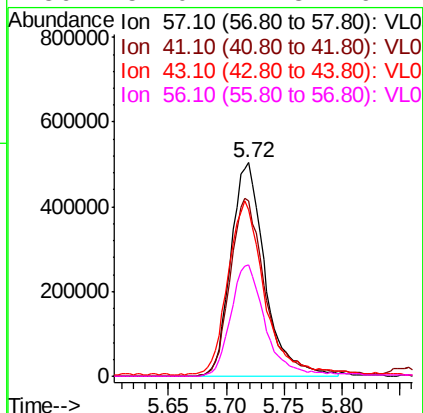
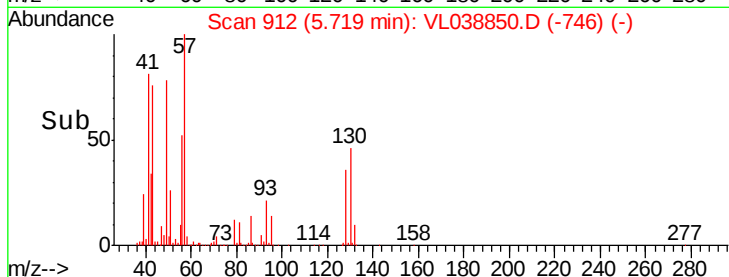
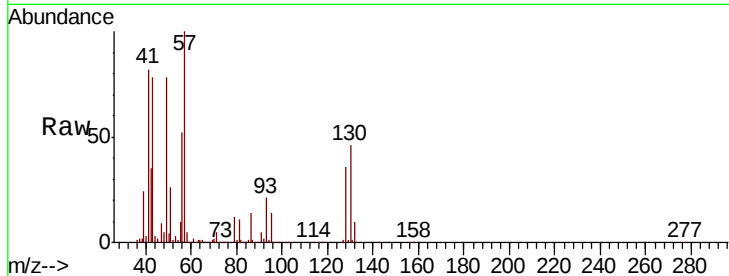


#26
Hexane
Concen: 6.902 ppbv
RT: 5.72
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 20:52

Tot Ion:
Ion Ratio
57 100
41 87.
43 89.
56 54.0 42.8 64.2

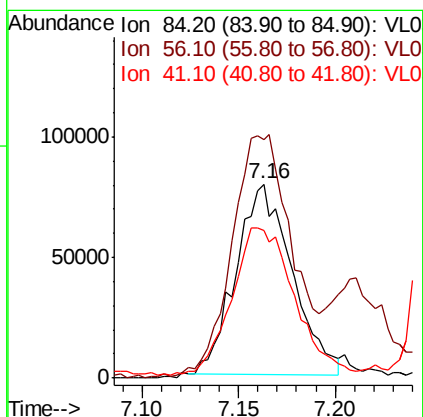
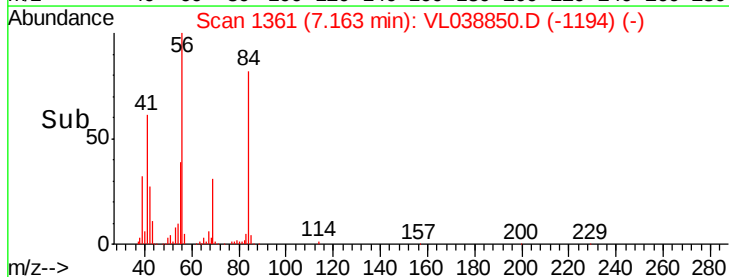
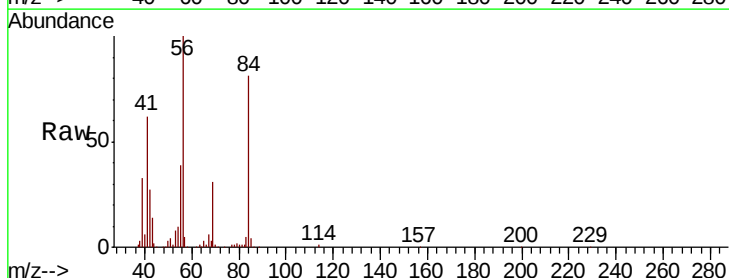
Manual Integrations
APPROVED

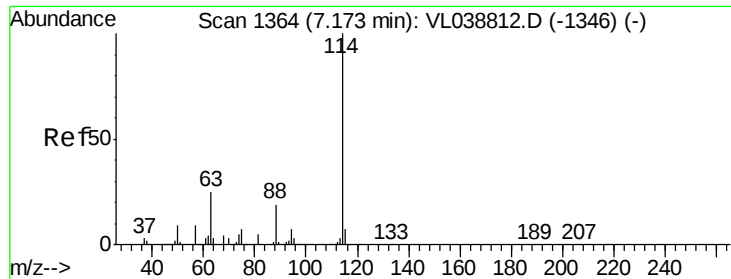
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#30
Cyclohexane
Concen: 1.220 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. 0.04 min
Lab File: VL038850.D
Acq: 7 Apr 2022 20:52

Tgt Ion: 84 Resp: 159859
Ion Ratio Lower Upper
84 100
56 138.2 114.4 171.6
41 85.3 69.0 103.4



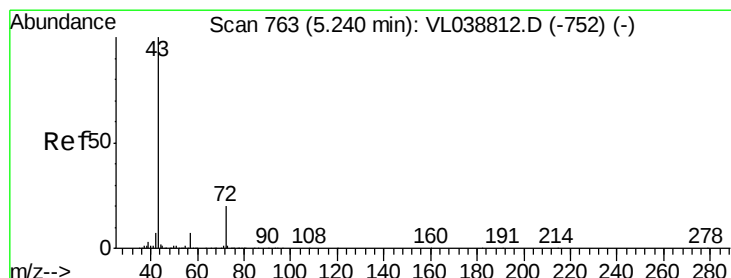
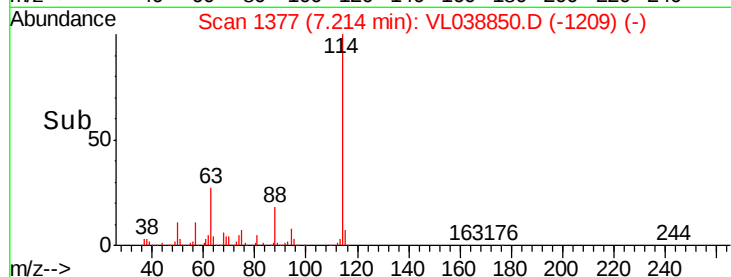
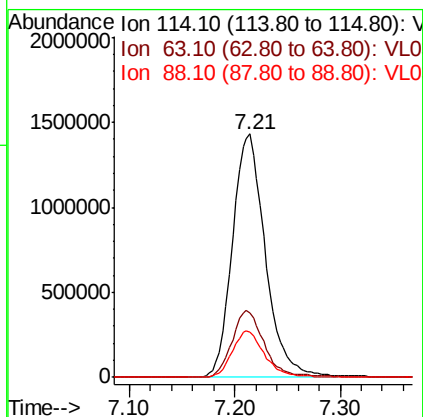
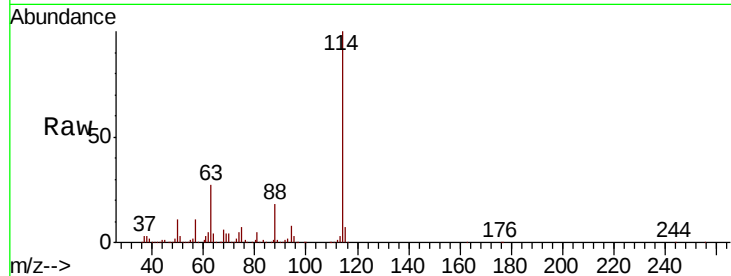


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 7 Apr 2022 20:52

Tot Ion:1
 Ion Rati
 114 100
 63 27.
 88 18.

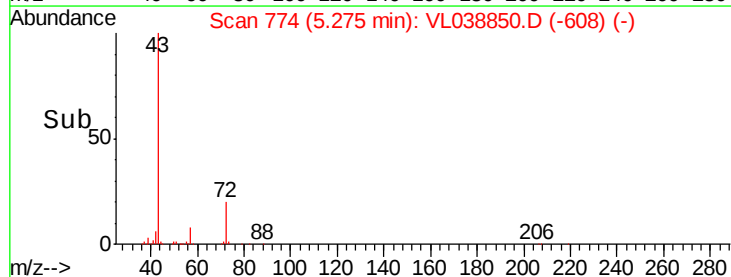
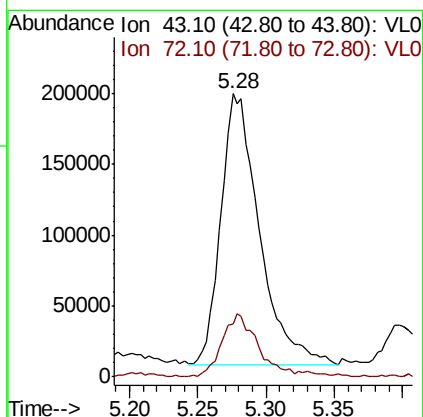
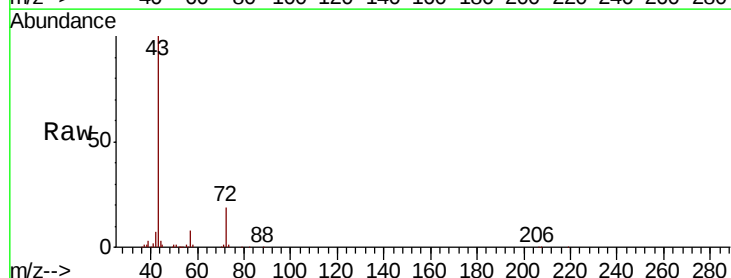
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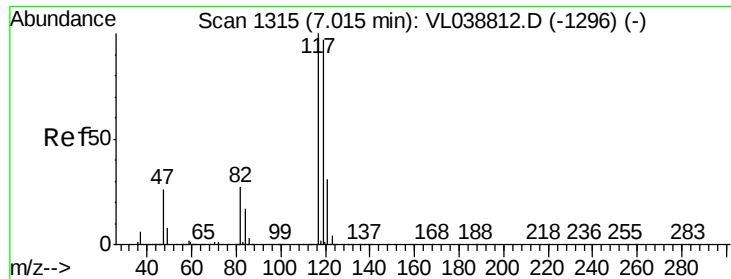
Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#34
 2-Butanone
 Concen: 3.064 ppbv
 RT: 5.28 min Scan# 774
 Delta R.T. 0.04 min
 Lab File: VL038850.D
 Acq: 7 Apr 2022 20:52

Tgt Ion: 43 Resp: 375000
 Ion Ratio Lower Upper
 43 100
 72 23.1 16.9 25.3





#35

Carbon Tetrachloride

Concen: 0.073 ppbv m

RT: 7.06 Instrument:

Delta R.T. MSVOA_L

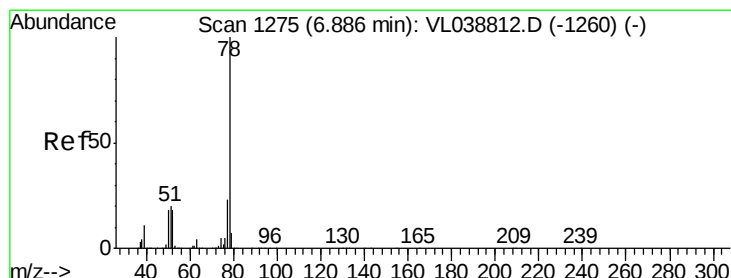
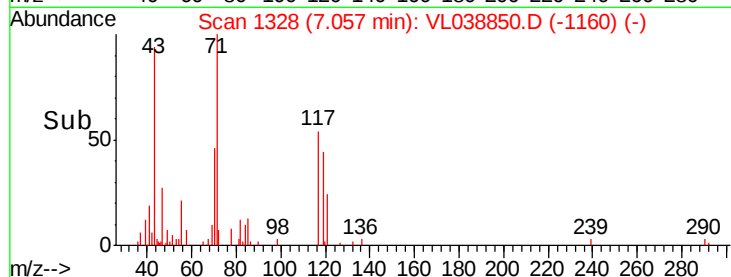
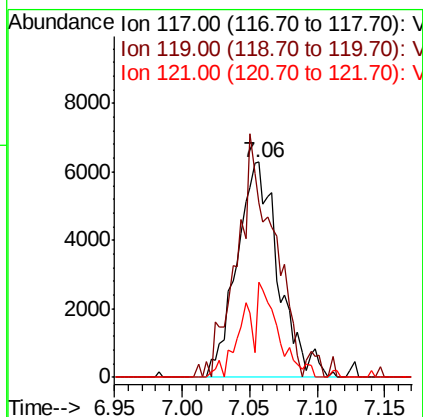
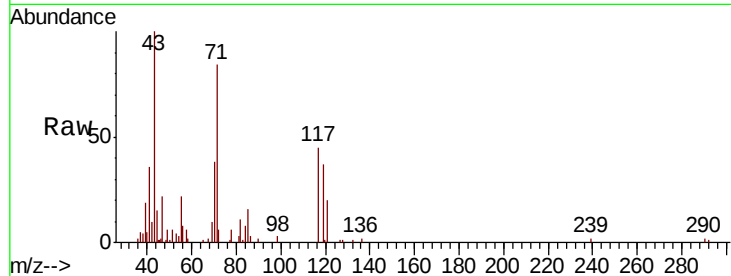
Lab File: ClientSampleId:

Acq: 7 Apr 2022 20:52

Tot Ion:1
Ion Rati
117 100
119 81.
121 44.

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#36

Benzene

Concen: 0.942 ppbv

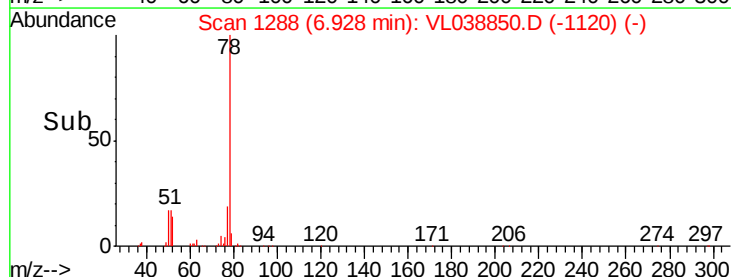
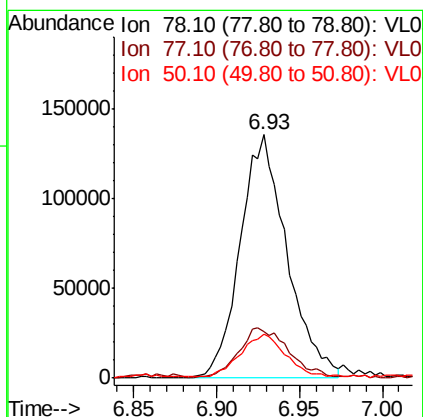
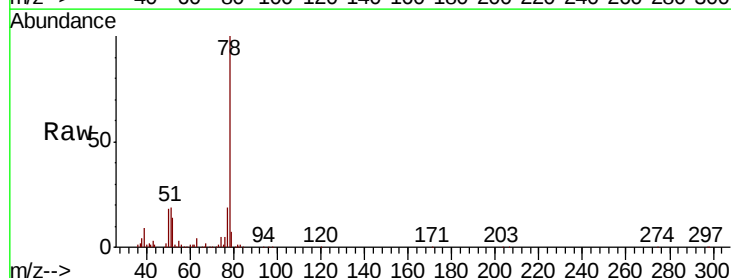
RT: 6.93 min Scan# 1288

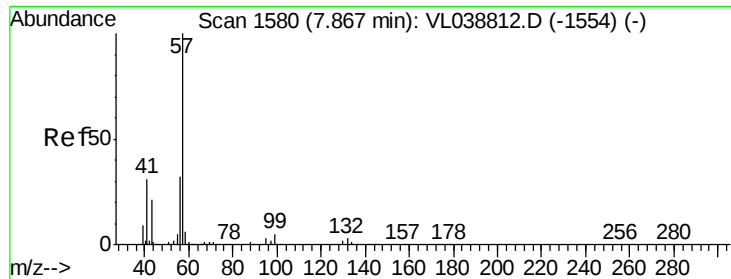
Delta R.T. 0.04 min

Lab File: VL038850.D

Acq: 7 Apr 2022 20:52

Tgt Ion: 78 Resp: 265588
Ion Ratio Lower Upper
78 100
77 18.7 18.2 27.2
50 17.4 14.0 21.0



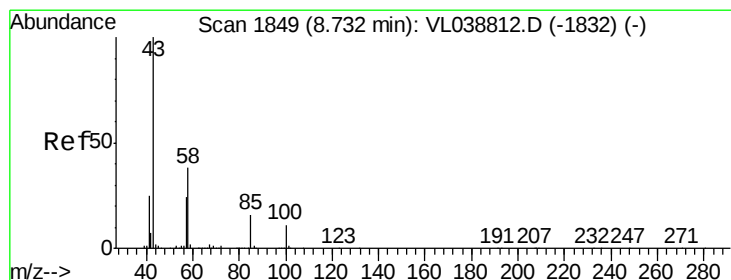
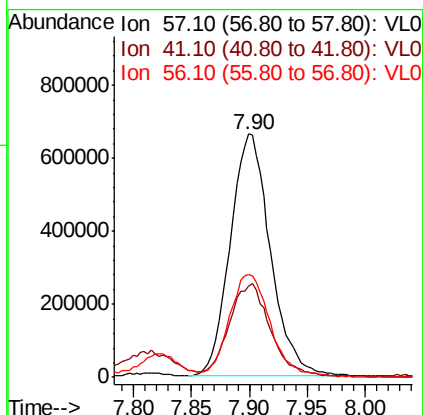
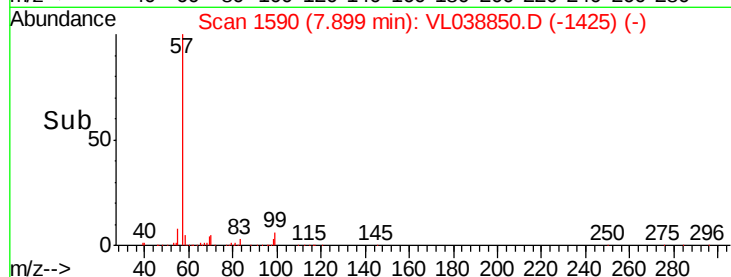
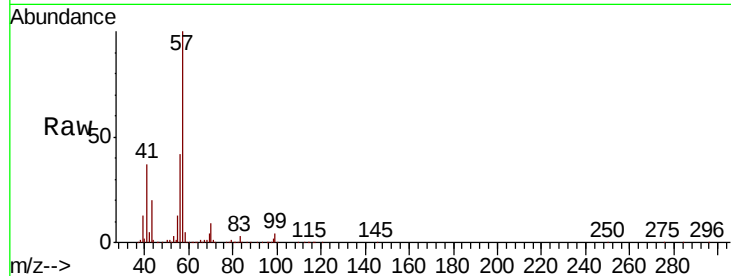


#44
 2,2,4-Trimethylpentane
 Concen: 3.326 ppbv
 RT: 7.90
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 20:52

Tot Ion:
 Ion Ratio
 57 100
 41 39.
 56 44.

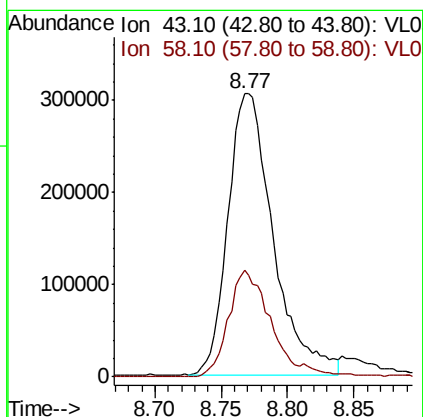
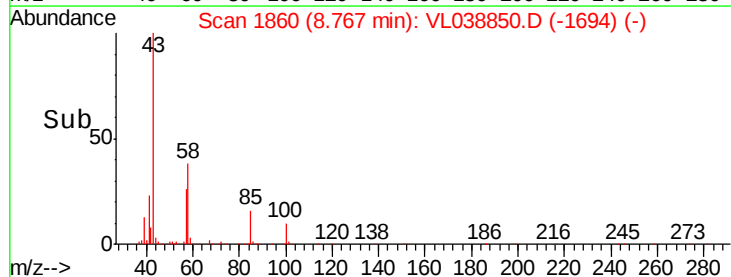
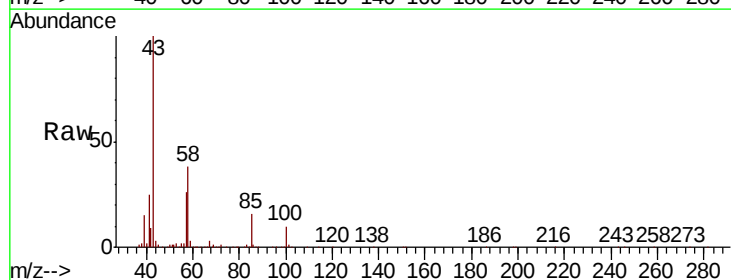
Manual Integrations
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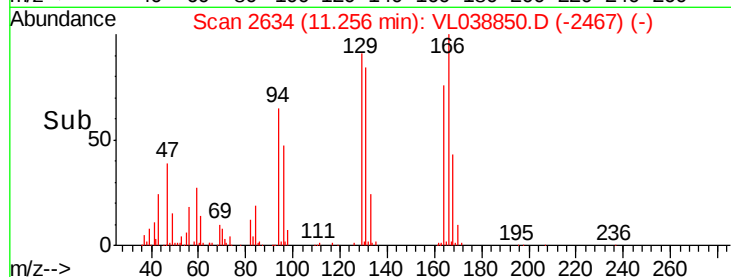
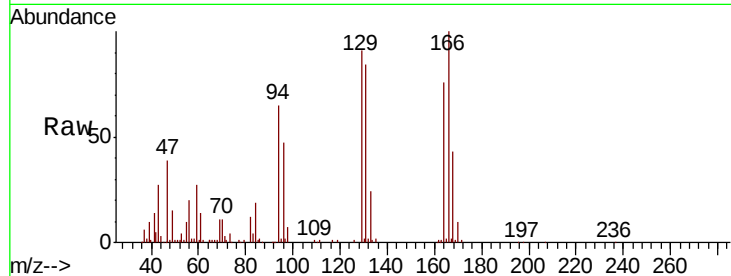
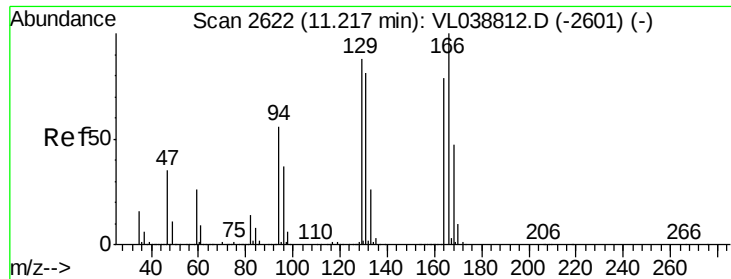
Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#50
 4-Methyl-2-Pentanone
 Concen: 2.625 ppbv
 RT: 8.77 min Scan# 1860
 Delta R.T. 0.04 min
 Lab File: VL038850.D
 Acq: 7 Apr 2022 20:52

Tgt Ion: 43 Resp: 722718
 Ion Ratio Lower Upper
 43 100
 58 36.7 29.0 43.6





#52

Tetrachloroethene

Concen: 1.041 ppbv m

RT: 11.26

Delta R.T. MSVOA_L

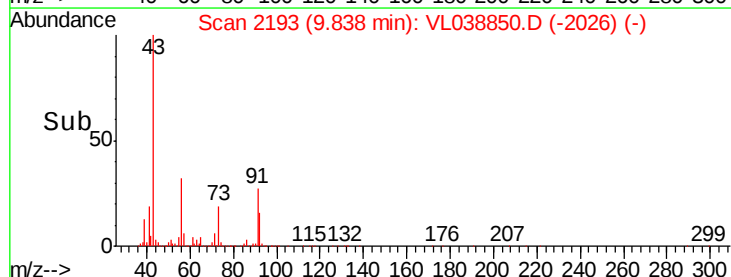
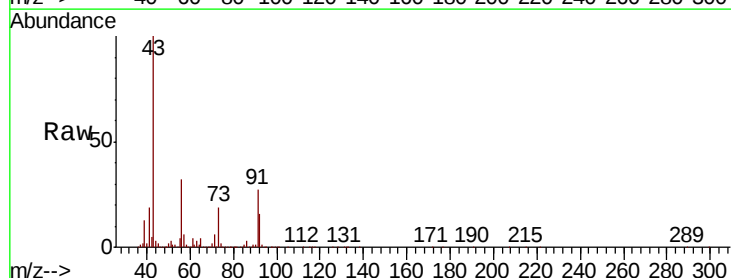
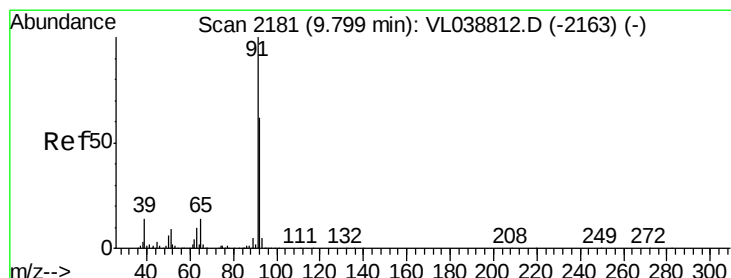
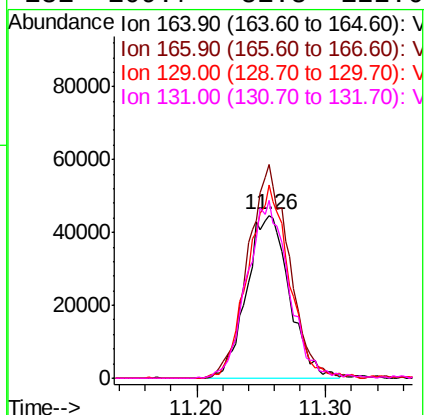
Lab File: ClientSampleId :

Acq: 7 Apr 2022 20:52

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Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022

Tot Ion	Ratio	Lower	Upper
164	100		
166	131.		
129	118.		
131	109.7	81.8	122.6



#53

Toluene

Concen: 5.813 ppbv

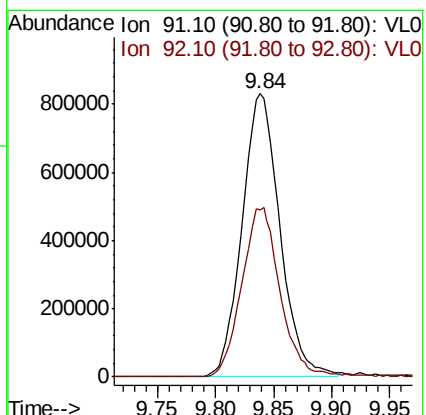
RT: 9.84 min Scan# 2193

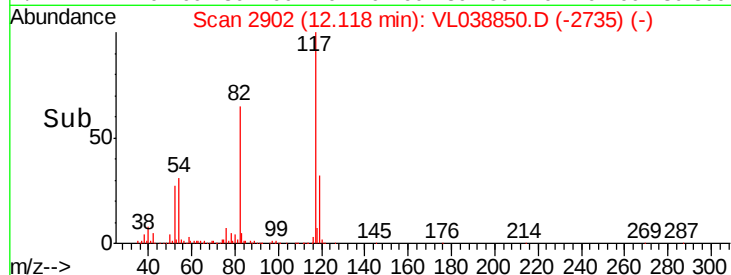
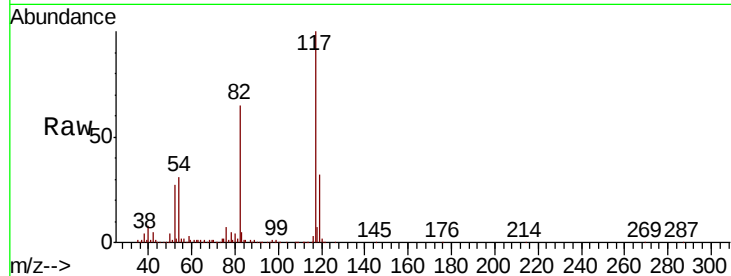
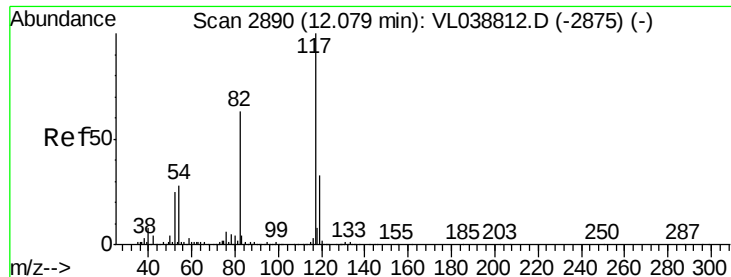
Delta R.T. 0.04 min

Lab File: VL038850.D

Acq: 7 Apr 2022 20:52

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.4	49.2	73.8



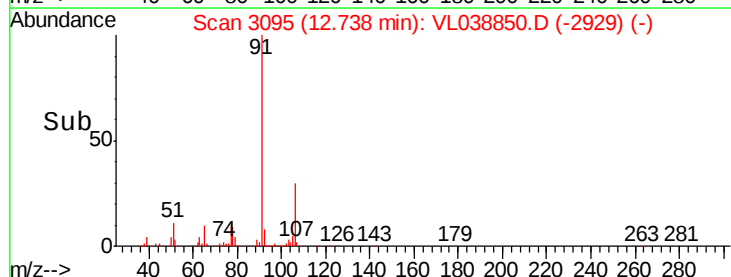
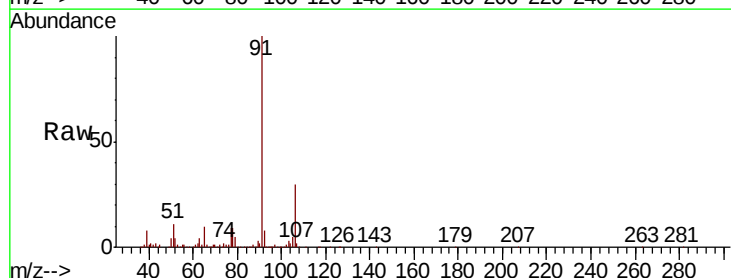
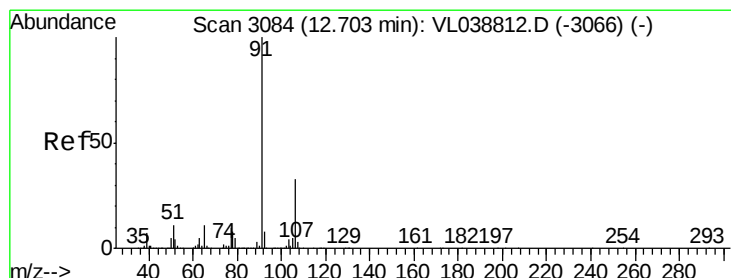
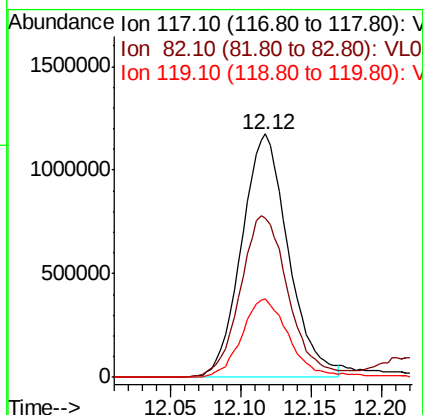


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 7 Apr 2022 20:52

Tot Ion: 1
Ion Ratio
117 100
82 68.
119 34.

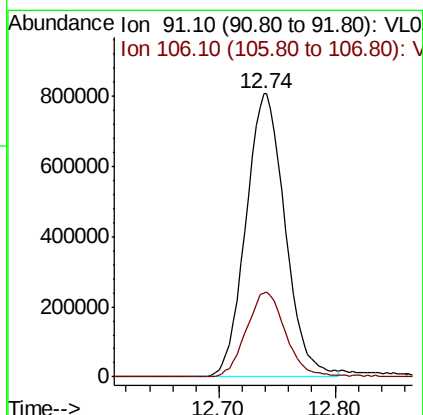
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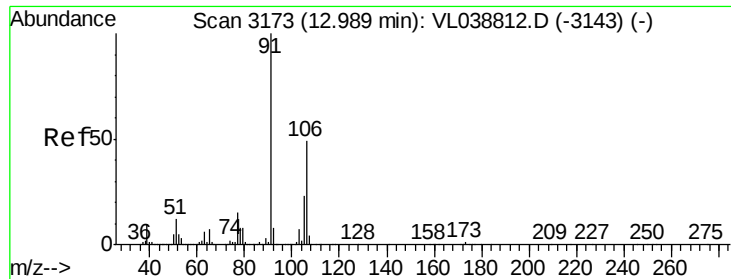
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#58
Ethyl Benzene
Concen: 4.671 ppbv
RT: 12.74 min Scan# 3095
Delta R.T.: 0.04 min
Lab File: VL038850.D
Acq: 7 Apr 2022 20:52

Tgt Ion: 91 Resp: 1898620
Ion Ratio Lower Upper
91 100
106 29.8 26.7 40.1



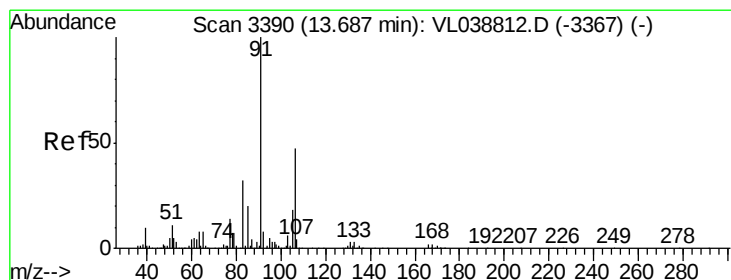
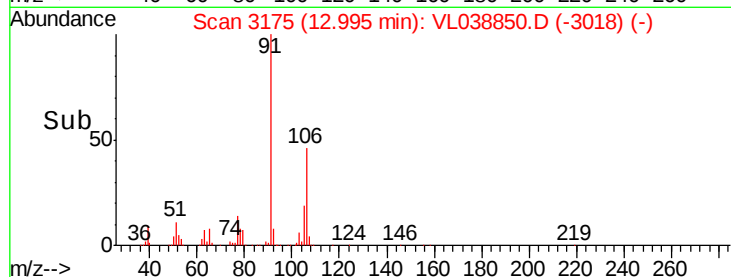
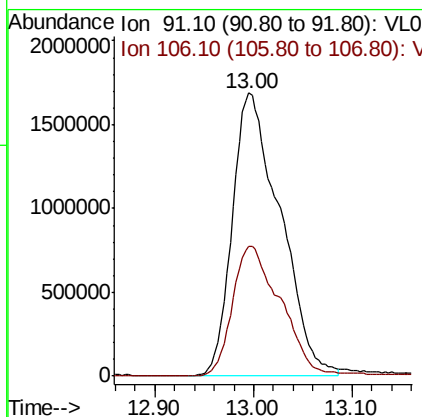
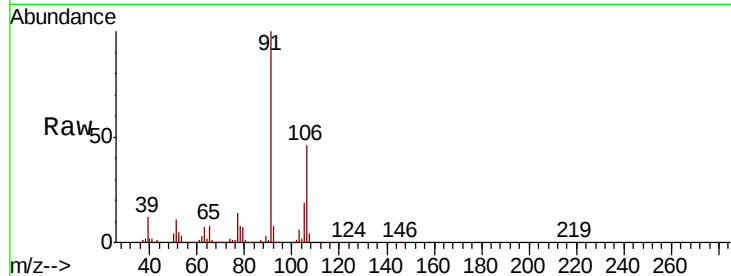


#59
m/p-Xylene
Concen: 16.539 ppbv
RT: 13.00
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 7 Apr 2022 20:52

Tot Ion:
Ion Ratio
91 100
106 47.

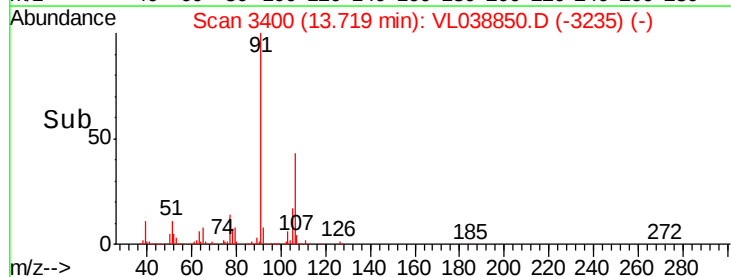
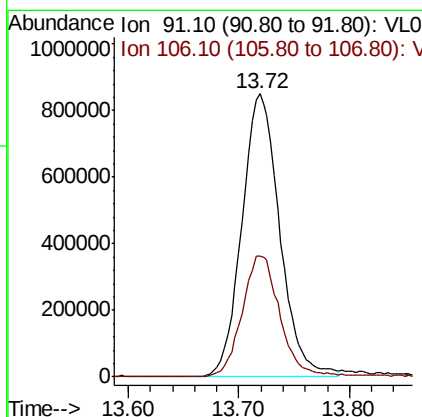
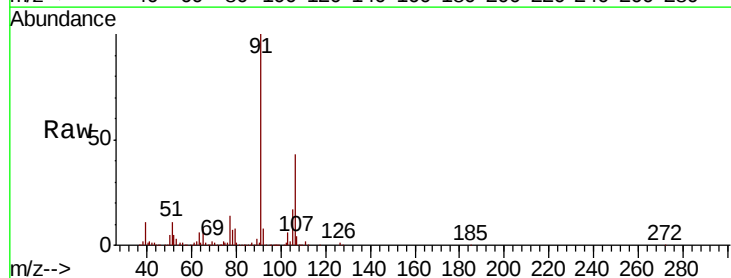
Manual Integrations
APPROVED

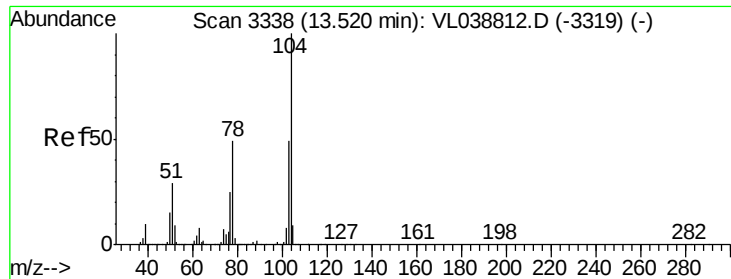
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#60
o-Xylene
Concen: 6.305 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. 0.03 min
Lab File: VL038850.D
Acq: 7 Apr 2022 20:52

Tgt Ion: 91 Resp: 2014710
Ion Ratio Lower Upper
91 100
106 43.6 23.8 71.4





#61

Stvrene

Concen: 0.358 ppbv m

RT: 13.56

Delta R.T.

Lab File:

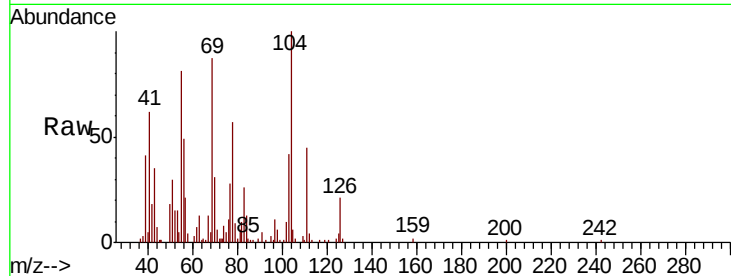
Acq: 7 Apr 2022 20:52

Instrument :

MSVOA_L

ClientSampleId :

1160-1-SG-1



Tot Ion:1

Ion Rati

104 100

78 56.

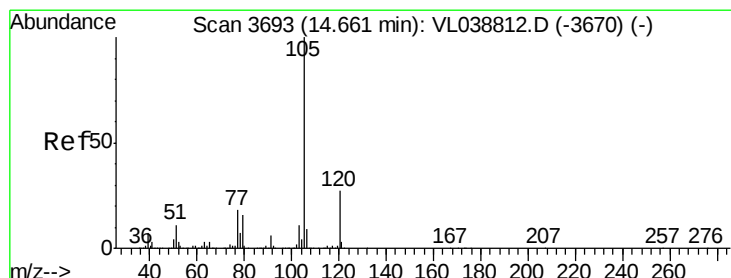
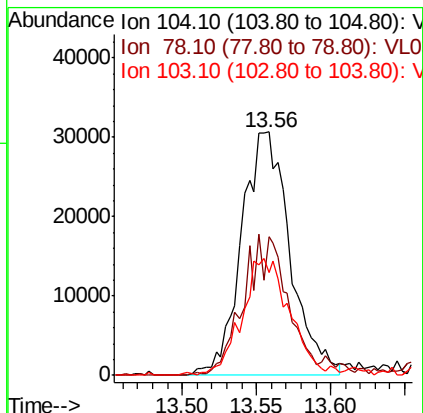
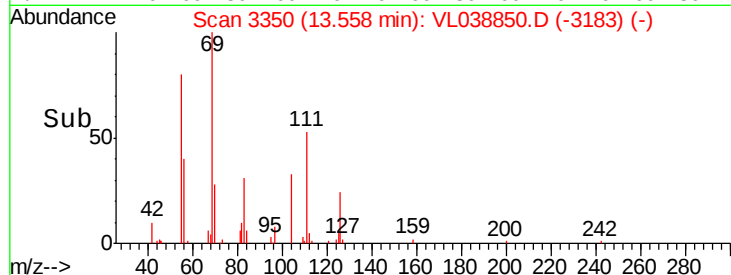
103 49.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#62

Isopropylbenzene

Concen: 0.253 ppbv m

RT: 14.69 min Scan# 3701

Delta R.T. 0.03 min

Lab File: VL038850.D

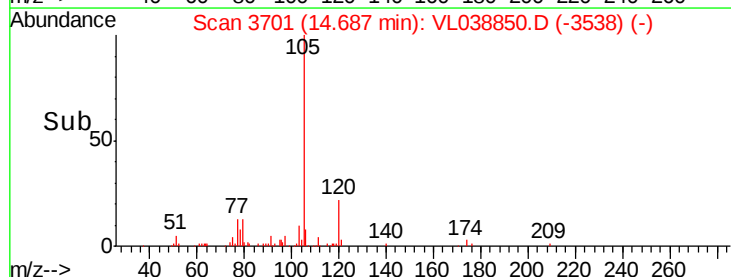
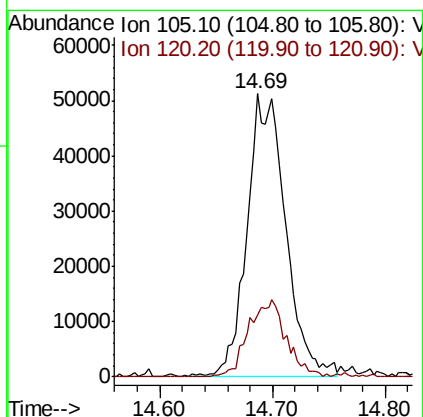
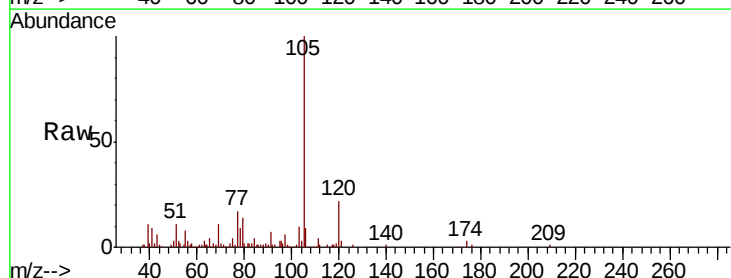
Acq: 7 Apr 2022 20:52

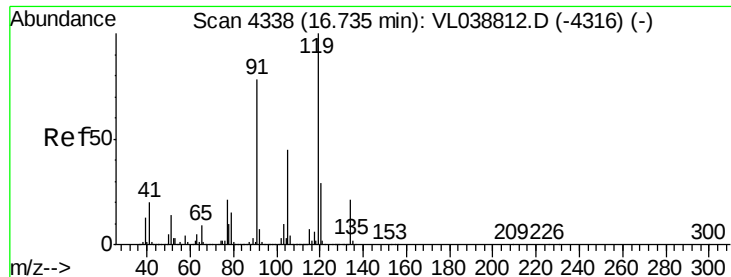
Tgt Ion:105 Resp: 121549

Ion Ratio Lower Upper

105 100

120 27.4 21.8 32.8





#65

tert-Butylbenzene

Concen: 0.529 ppbv

RT: 16.79

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Apr 2022 20:52

Tot Ion:1

Ion Ratio

119 100

91 0.

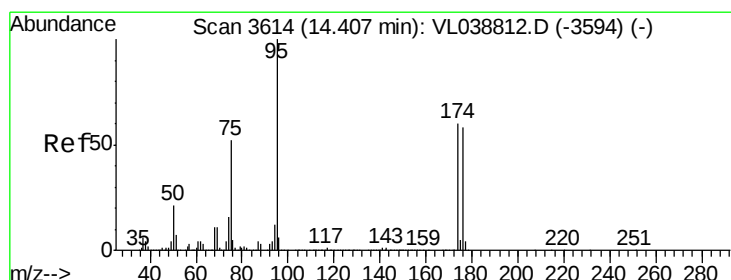
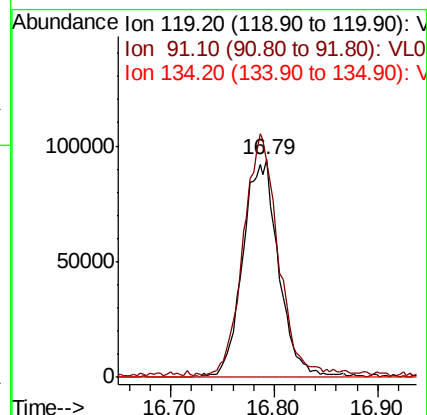
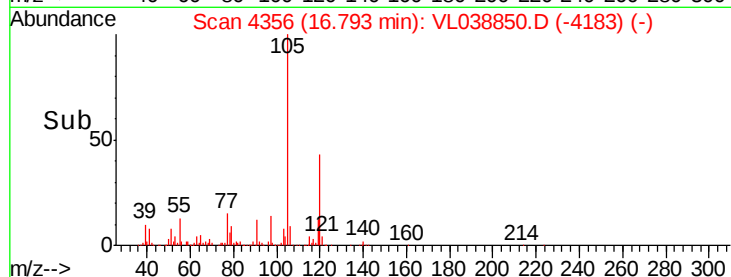
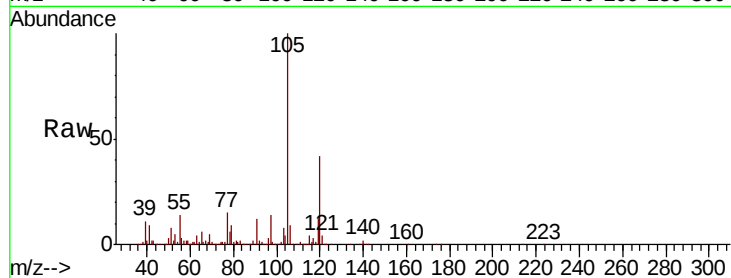
134 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#68

1-Bromo-4-Fluorobenzene

Concen: 10.638 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. 0.04 min

Lab File: VL038850.D

Acq: 7 Apr 2022 20:52

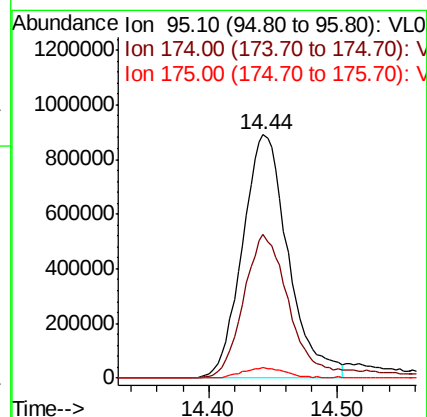
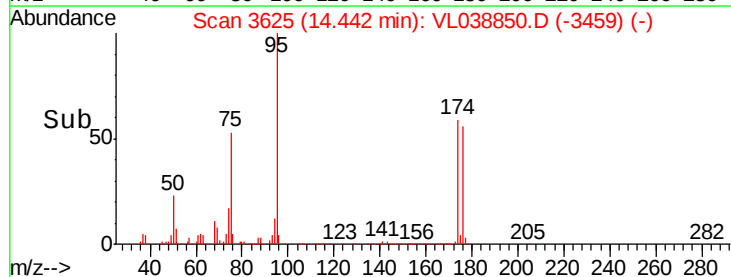
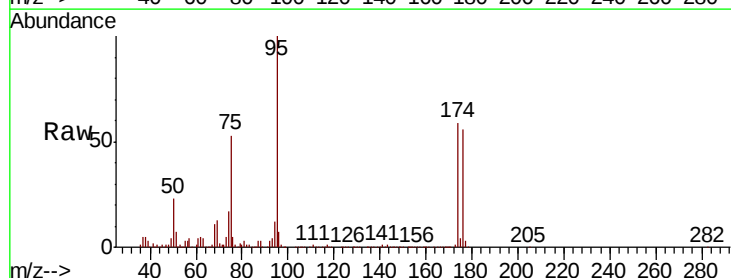
Tgt Ion: 95 Resp: 2194870

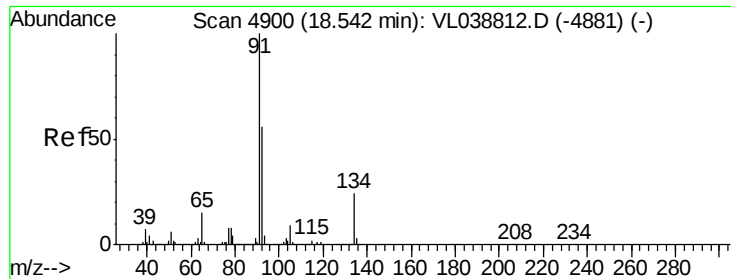
Ion Ratio Lower Upper

95 100

174 63.5 52.0 78.0

175 4.2 4.0 6.0



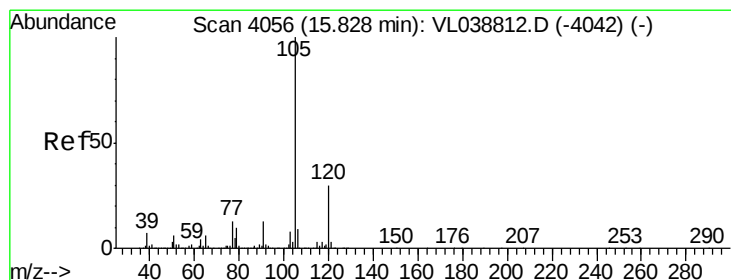
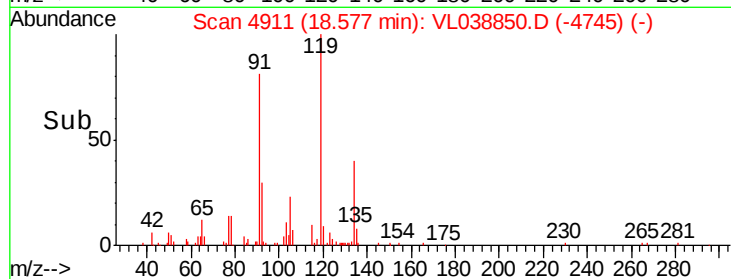
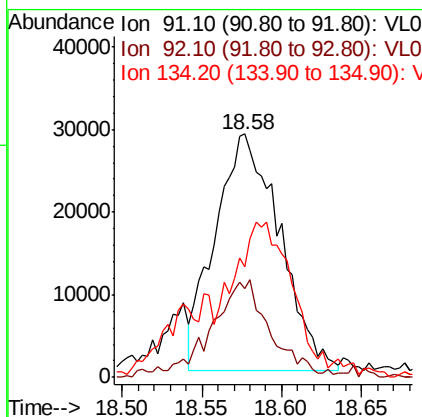
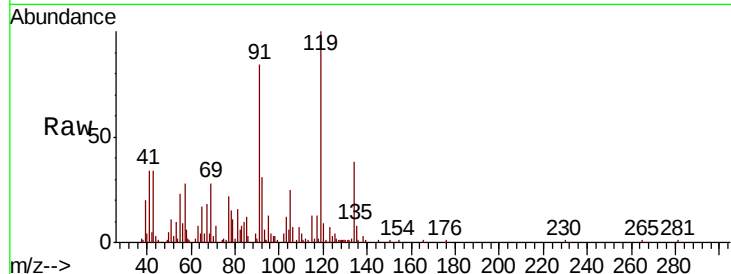


#70
n-Butylbenzene
Concen: 0.161 ppbv
RT: 18.58 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Apr 2022 20:52

Tot Ion:
Ion Ratio
91 100
92 39.
134 87.

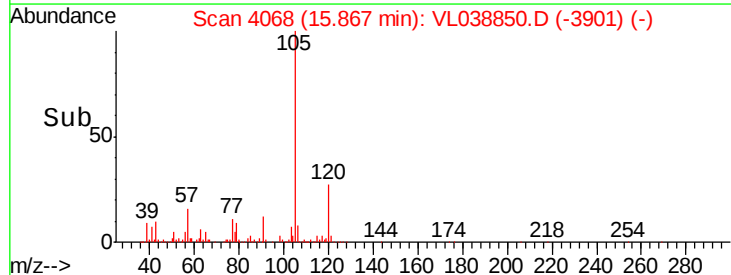
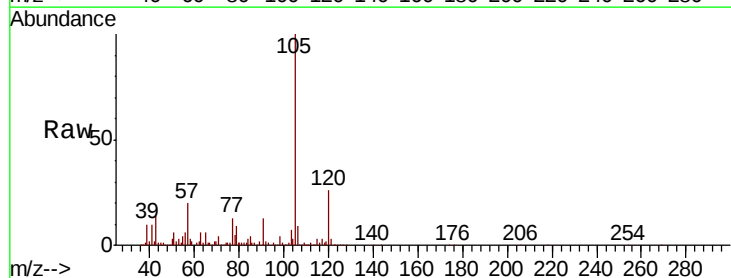
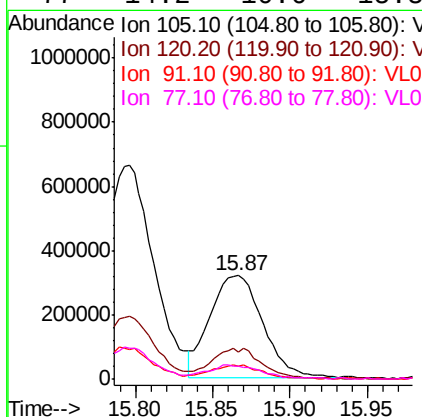
Manual Integrations
APPROVED

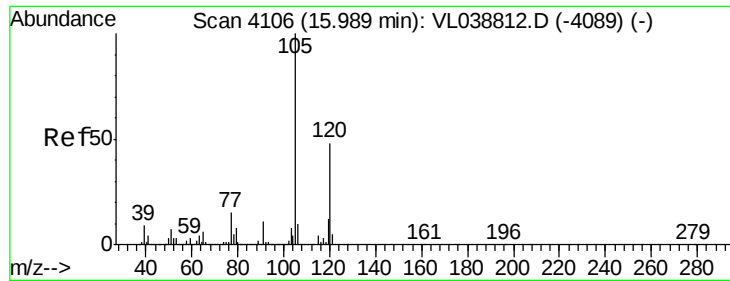
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#72
4-Ethyltoluene
Concen: 1.977 ppbv
RT: 15.87 min Scan# 4068
Delta R.T. 0.04 min
Lab File: VL038850.D
Acq: 7 Apr 2022 20:52

Tgt Ion:105 Resp: 754291
Ion Ratio Lower Upper
105 100
120 29.5 24.3 36.5
91 12.8 9.4 14.2
77 14.2 10.6 15.8

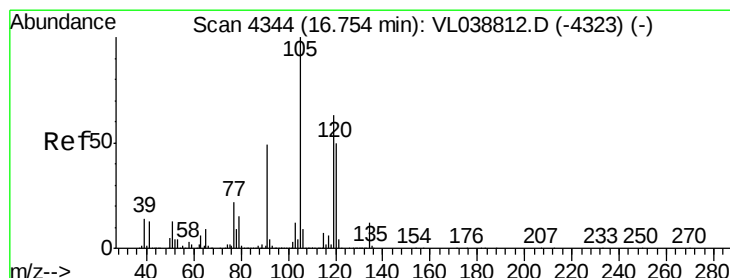
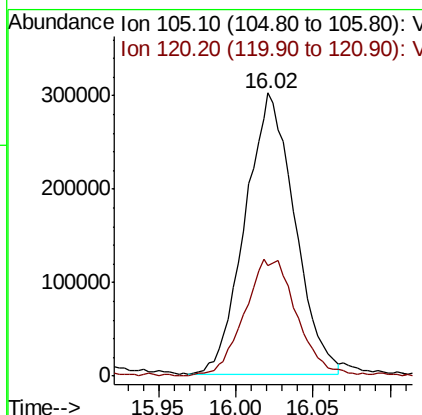
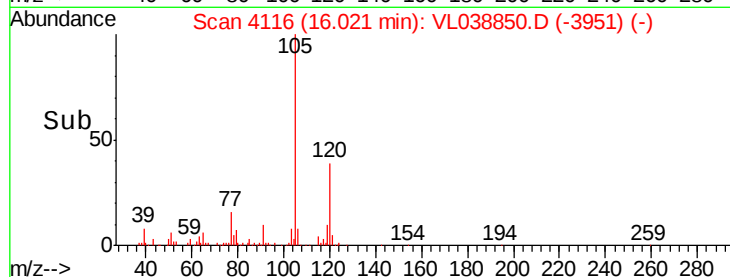
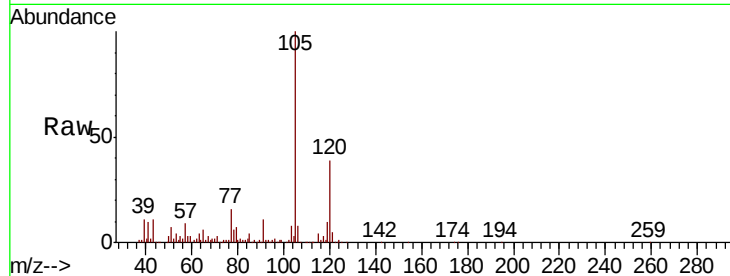




#73
 1,3,5-Trimethylbenzene
 Concen: 1.963 ppbv
 RT: 16.02 min
 Delta R.T. 0.04 min
 Lab File: VL038850.D
 Acq: 7 Apr 2022 20:52

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#74
 1,2,4-Trimethylbenzene
 Concen: 5.640 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. 0.04 min
 Lab File: VL038850.D
 Acq: 7 Apr 2022 20:52

Tgt Ion:105 Resp: 2043532
 Ion Ratio Lower Upper
 105 100
 120 43.1 39.8 59.8
 91 12.1 39.4 59.0#
 77 13.6 17.3 25.9#

