

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038175.D
 Acq On : 14 Dec 2021 20:44
 Operator : SY/AP
 Sample : M5075-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 AA-DSW

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/15/2021
 Supervised By :Semsettin Yesilyurt 12/16/2021

Quant Time: Dec 15 06:44:27 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.63	49	881750	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	2310559	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.03	117	2058100	10.00	ppbv	-0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.36	95	1649200	11.11	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.10%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	34094	0.234	ppbv	92
3) Chlorodifluoromethane	2.97	51	46453m	0.251	ppbv	
4) Chloromethane	3.12	50	29086	0.461	ppbv	93
9) Propene	3.00	41	64066	0.939	ppbv	88
10) Heptane	8.08	43	21878m	0.130	ppbv	
11) Trichlorofluoromethane	3.92	101	28348	0.205	ppbv	97
13) Ethanol	3.58	45	176180	26.733	ppbv	92
15) Acetone	3.82	43	602462	7.881	ppbv	94
19) Isopropyl Alcohol	3.95	45	88961	1.611	ppbv #	1
20) Methylene Chloride	4.31	84	646817	15.105	ppbv	94
26) Hexane	5.65	57	548198	4.476	ppbv #	45
30) Cyclohexane	7.09	84	31267m	0.281	ppbv	
34) 2-Butanone	5.21	43	23300	0.250	ppbv #	86
35) Carbon Tetrachloride	6.97	117	11222	0.069	ppbv #	90
36) Benzene	6.85	78	66316	0.288	ppbv #	92
41) Tetrahydrofuran	6.01	42	53592	0.927	ppbv	98
44) 2,2,4-Trimethylpentane	7.83	57	55554	0.144	ppbv #	61
53) Toluene	9.76	91	181056	0.683	ppbv	97
59) m/p-Xylene	12.91	91	74077m	0.259	ppbv	
60) o-Xylene	13.64	91	36222m	0.136	ppbv	
61) Styrene	13.48	104	7517686	52.787	ppbv	89
74) 1,2,4-Trimethylbenzene	16.71	105	30183m	0.104	ppbv	

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

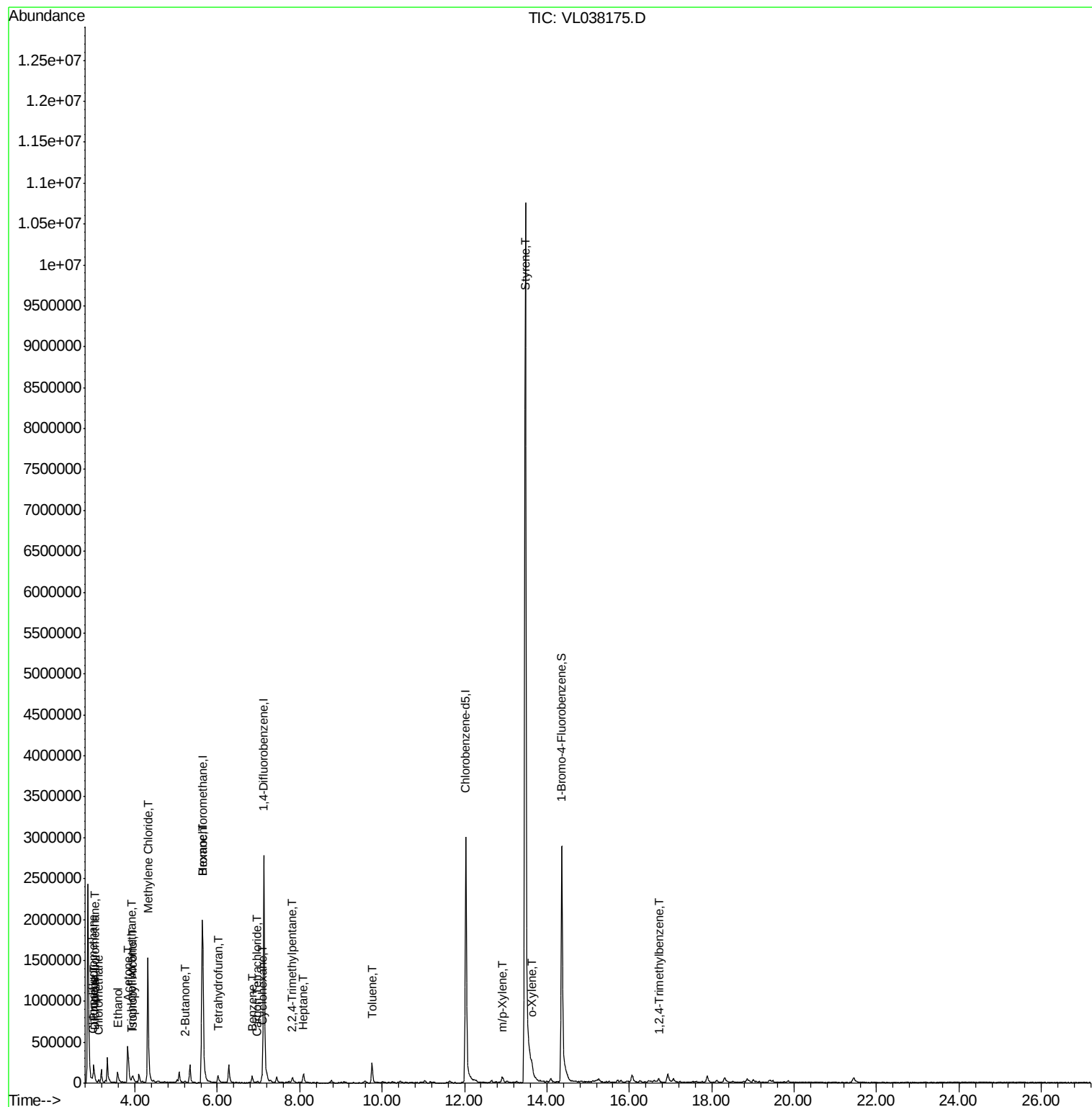
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121421\
Data File : VL038175.D
Acq On : 14 Dec 2021 20:44
Operator : SY/AP
Sample : M5075-02
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

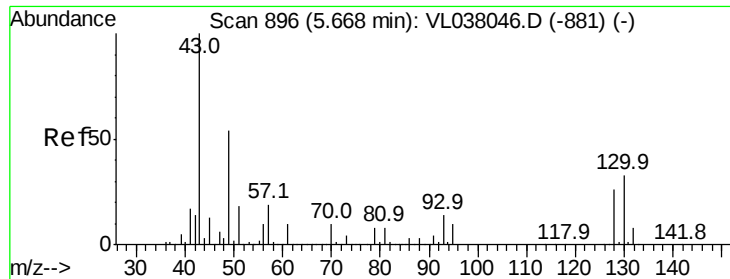
Instrument :
MSVOA_L
ClientSampleId :
AA-DSW

Quant Time: Dec 15 06:44:27 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration

Manual Integrations
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Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: AA-DSW

Acq: 14 Dec 2021 20:44

Tot Ion:

Ion Ratio

49 100

128 47.

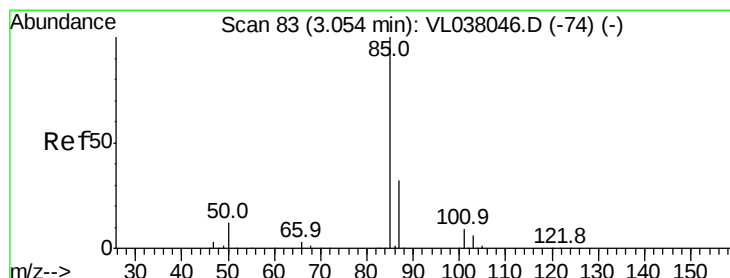
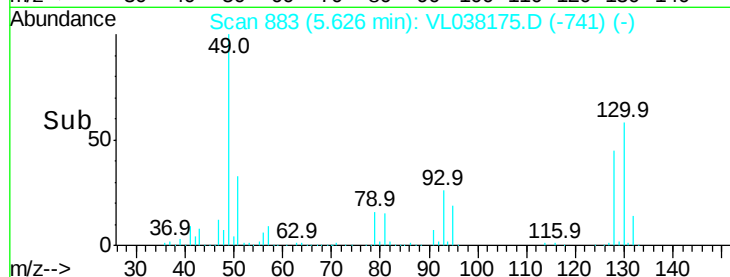
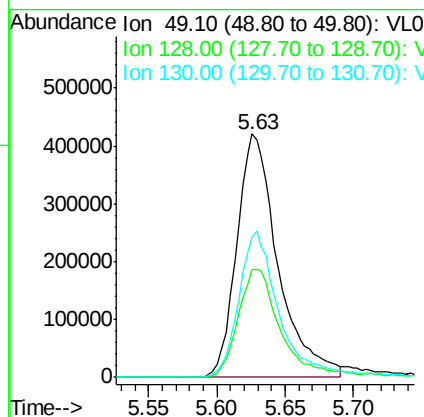
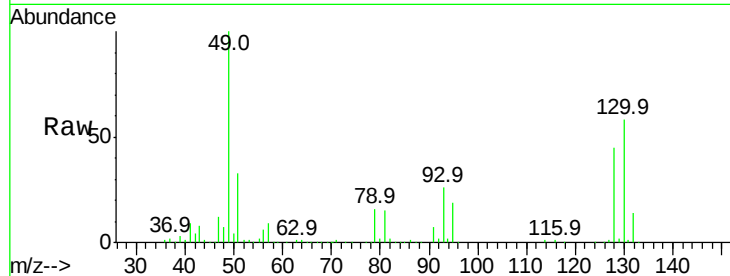
130 59.

Manual Integrations

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Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#2

Dichlorodifluoromethane

Concen: 0.234 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.03 min

Lab File: VL038175.D

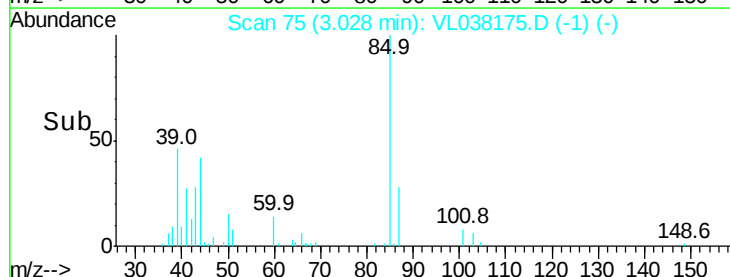
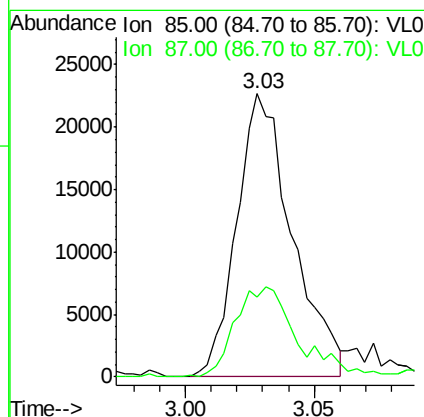
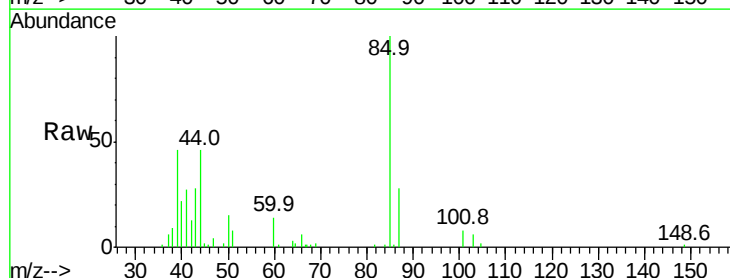
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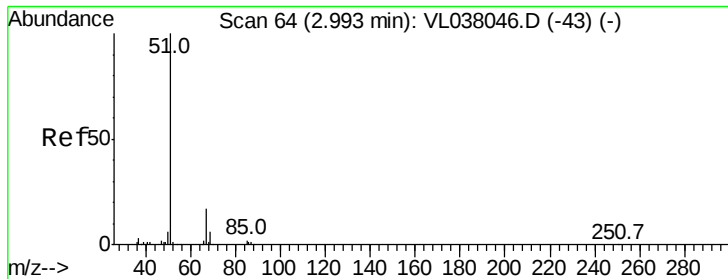
Tgt Ion: 85 Resp: 34094

Ion Ratio Lower Upper

85 100

87 27.7 25.8 38.6





#3

Chlorodifluoromethane

Concen: 0.251 ppbv m

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 20:44 AA-DSW

Tot Ion:

Ion Ratio

51 100

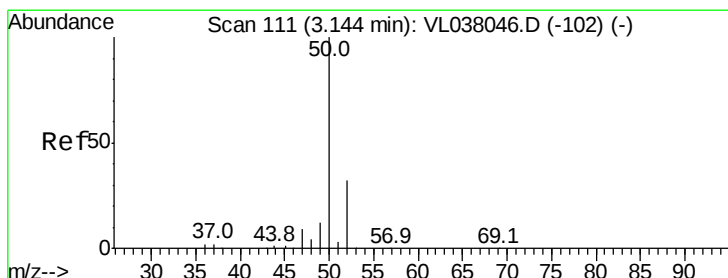
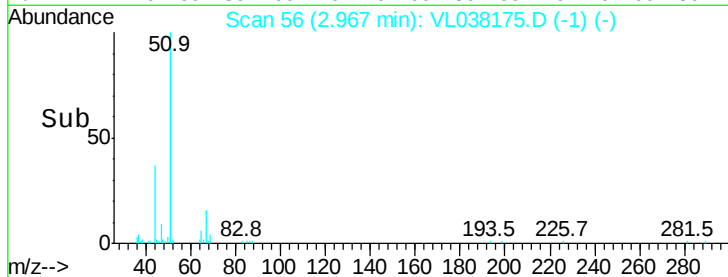
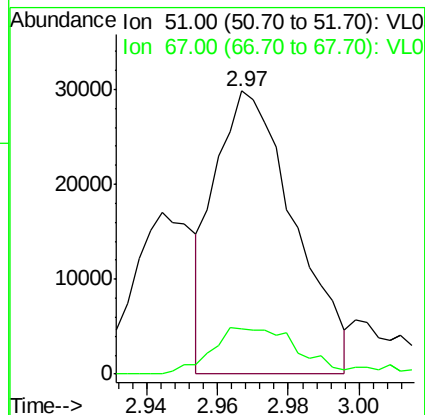
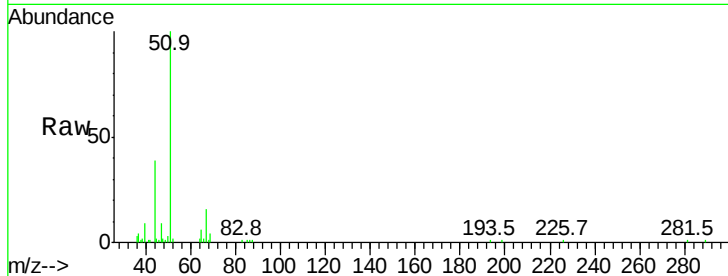
67 20.

Manual Integrations

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Supervised By :Semsettin Yesilyurt 12/16/2021



#4

Chloromethane

Concen: 0.461 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL038175.D

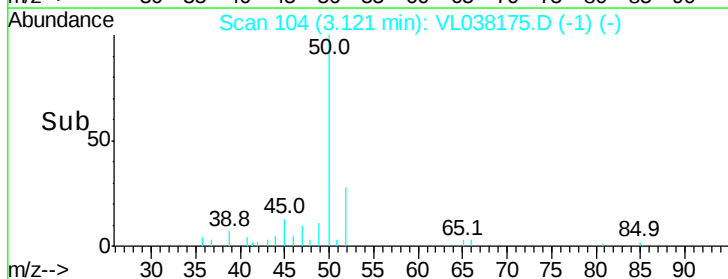
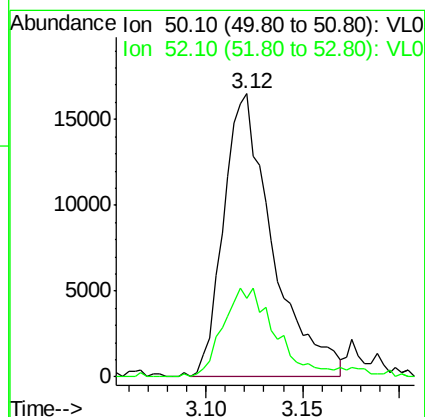
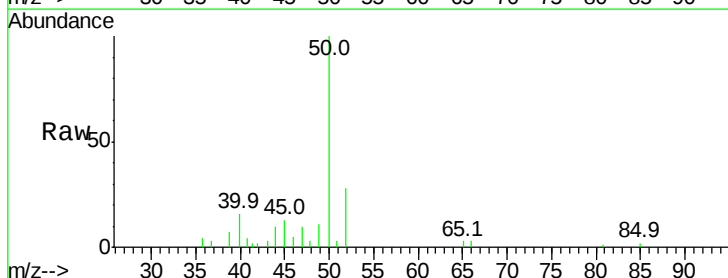
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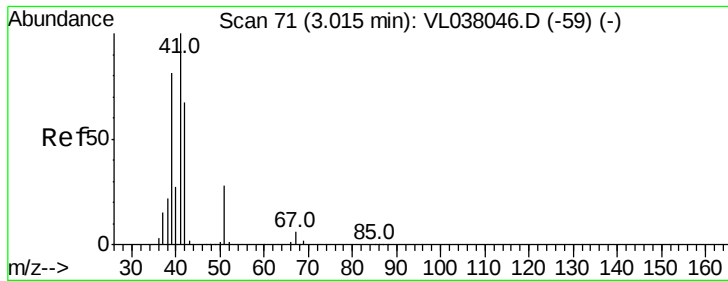
Tgt Ion: 50 Resp: 29086

Ion Ratio Lower Upper

50 100

52 27.8 25.4 38.0





#9

Propene

Concen: 0.939 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 20:44

Tot Ion:

Ion Ratio

41 100

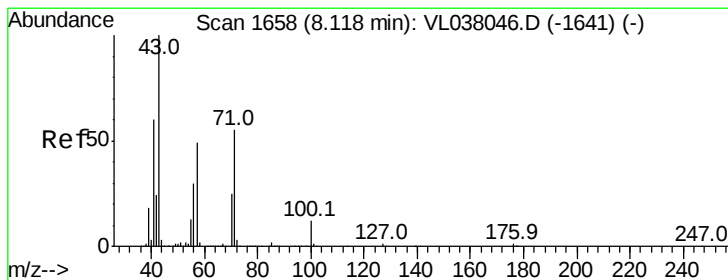
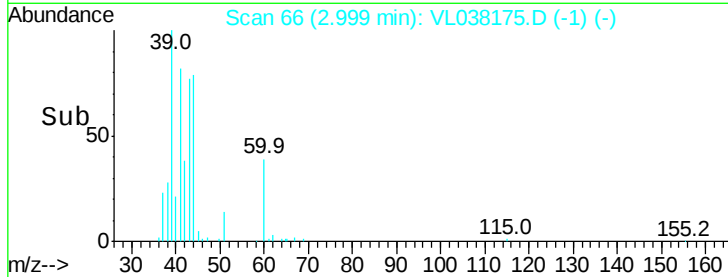
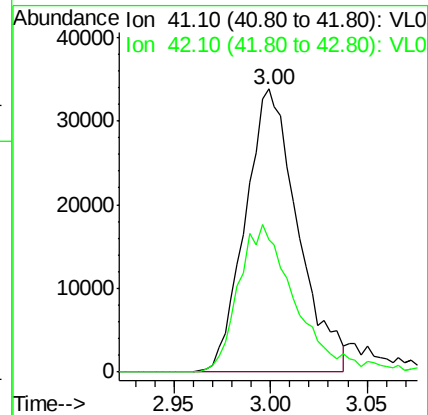
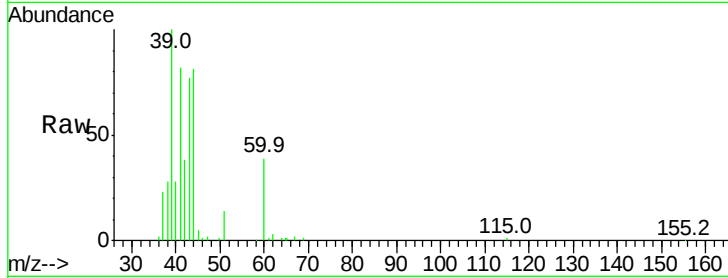
42 57.

Manual Integrations

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Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#10

Heptane

Concen: 0.130 ppbv m

RT: 8.08 min Scan# 1646

Delta R.T. -0.04 min

Lab File: VL038175.D

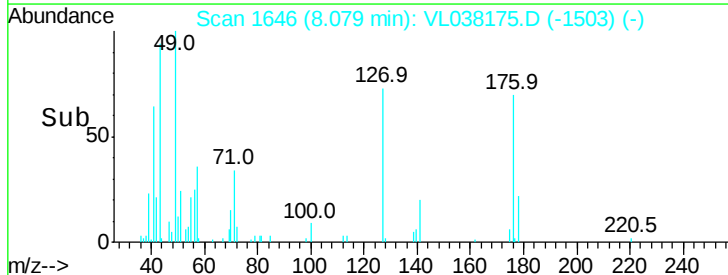
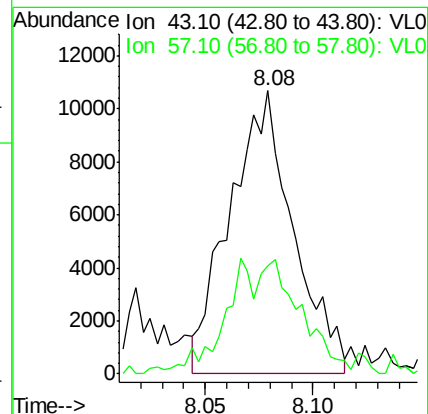
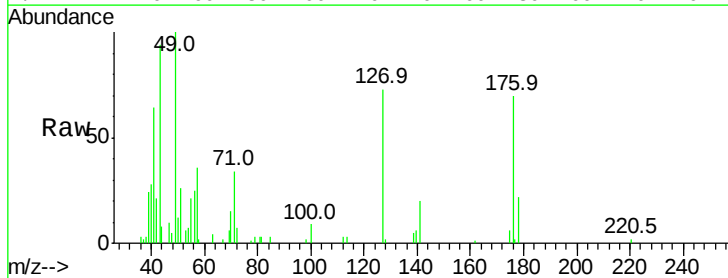
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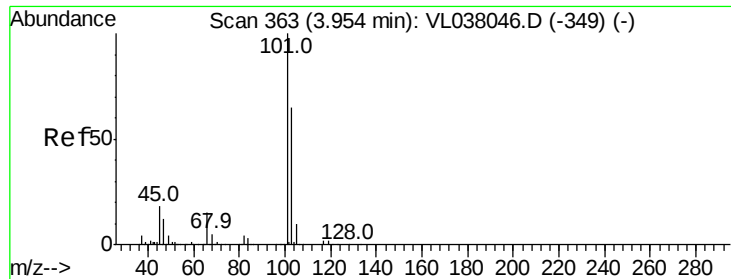
Tgt Ion: 43 Resp: 21878

Ion Ratio Lower Upper

43 100

57 49.9 40.4 60.6



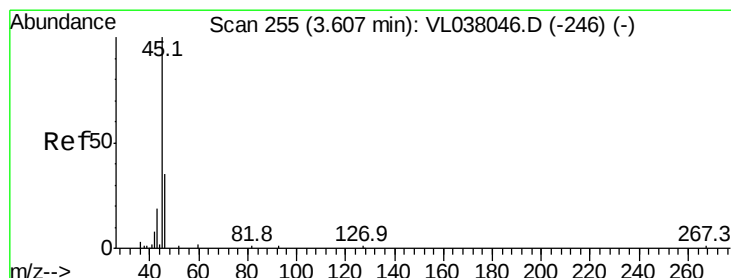
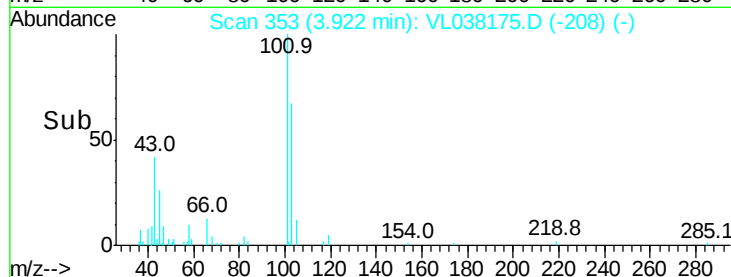
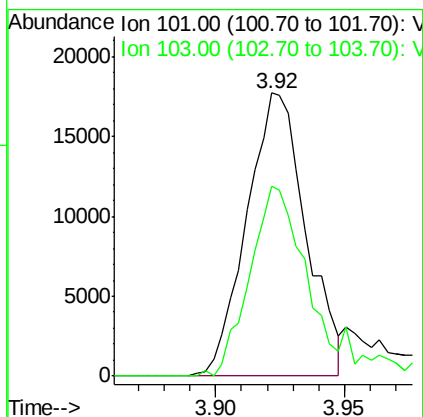
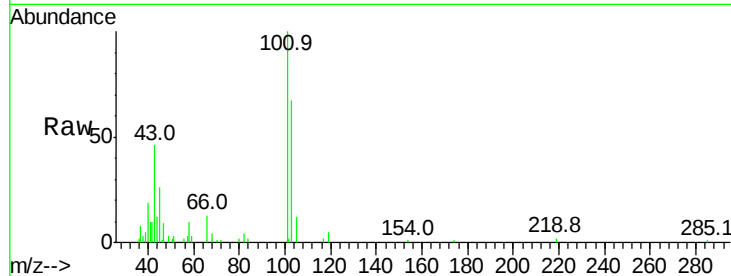


#11
Trichlorofluoromethane
Concen: 0.205 ppbv
RT: 3.92
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
AA-DSW
Acq: 14 Dec 2021 20:44

Tot Ion: 1
Ion Ratio
101 100
103 67.

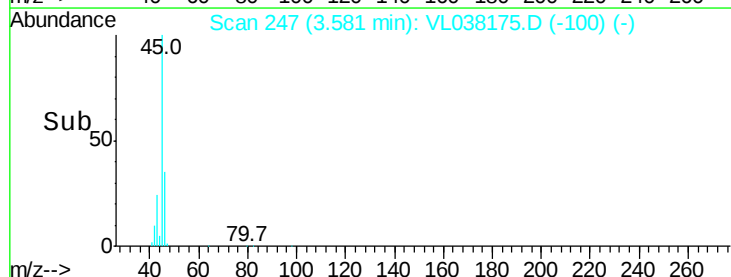
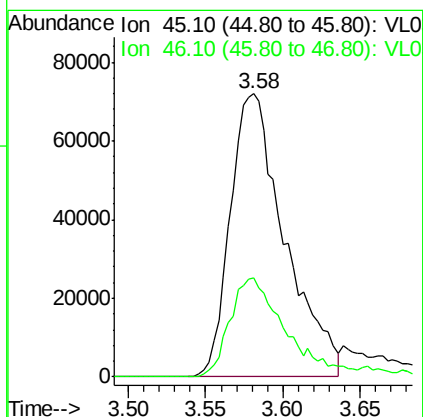
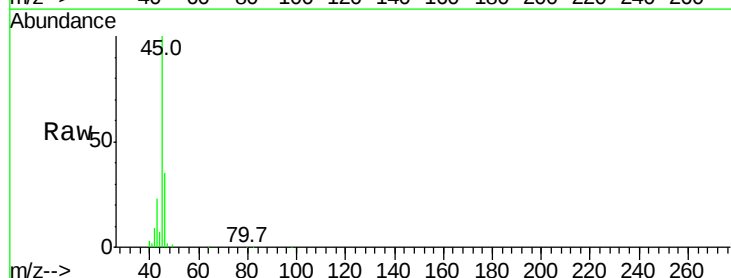
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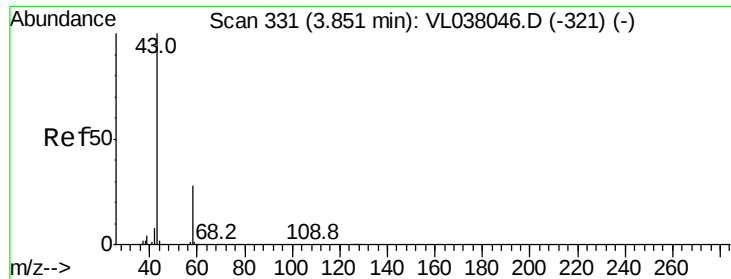
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#13
Ethanol
Concen: 26.733 ppbv
RT: 3.58 min Scan# 247
Delta R.T. -0.03 min
Lab File: VL038175.D
Acq: 14 Dec 2021 20:44

Tgt Ion: 45 Resp: 176180
Ion Ratio Lower Upper
45 100
46 38.4 17.6 70.2





#15

Acetone

Concen: 7.881 ppbv

RT: 3.82

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 20:44

Tot Ion:

Ion Ratio

43 100

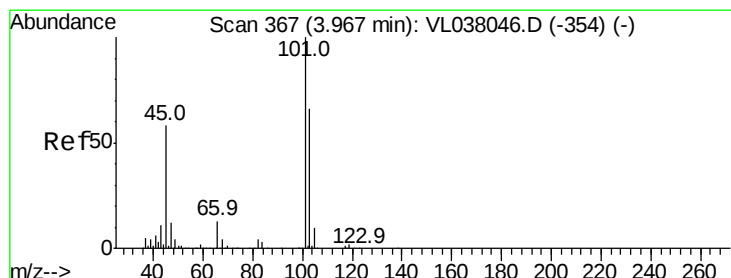
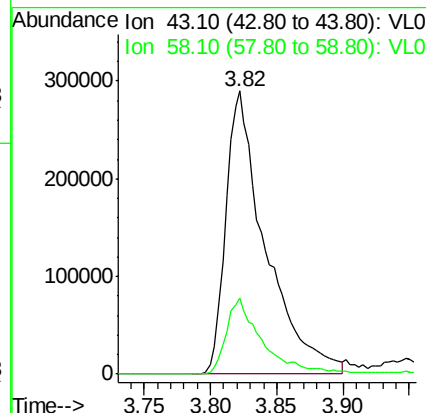
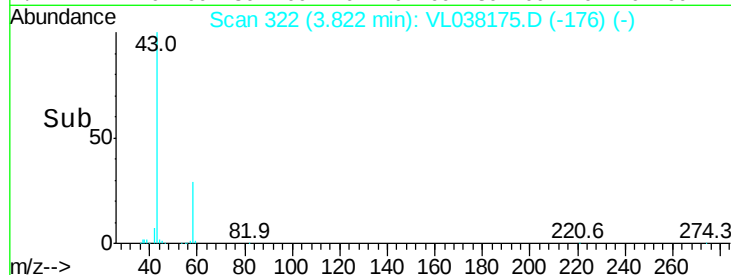
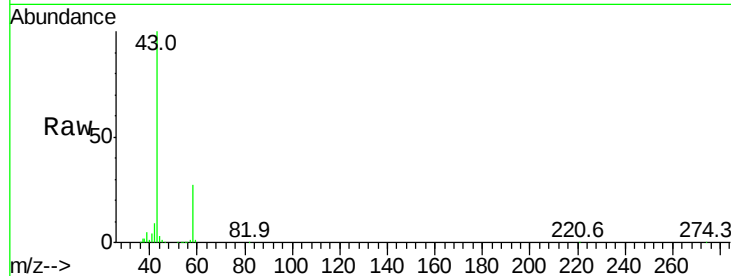
58 24.

Manual Integrations

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Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#19

Isopropyl Alcohol

Concen: 1.611 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.02 min

Lab File: VL038175.D

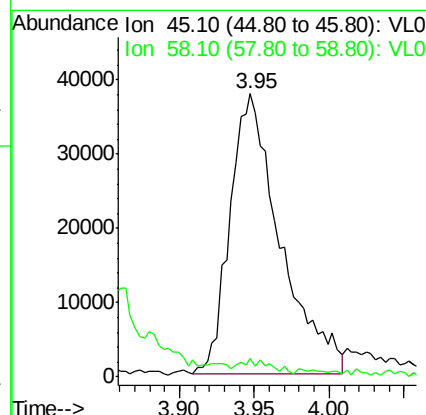
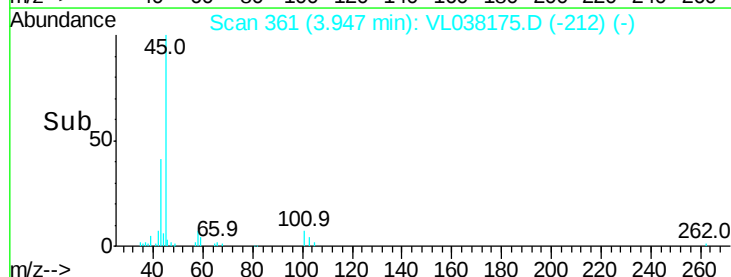
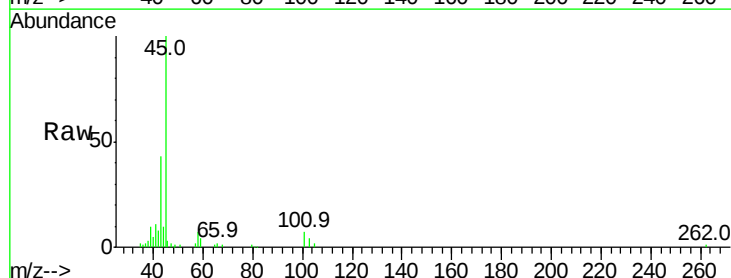
Acq: 14 Dec 2021 20:44

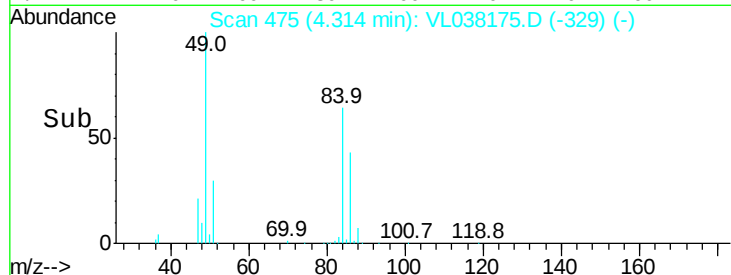
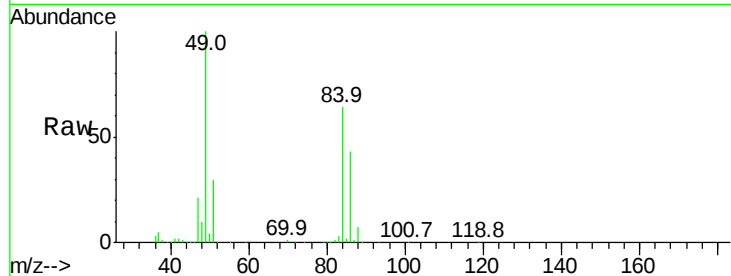
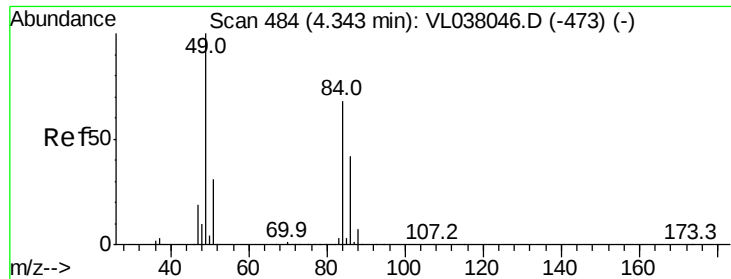
Tgt Ion: 45 Resp: 88961

Ion Ratio Lower Upper

45 100

58 167.7 1.4 2.0#



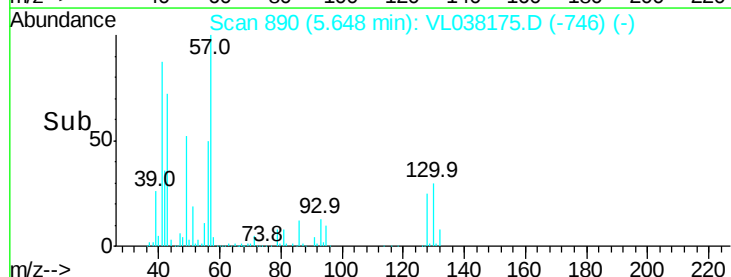
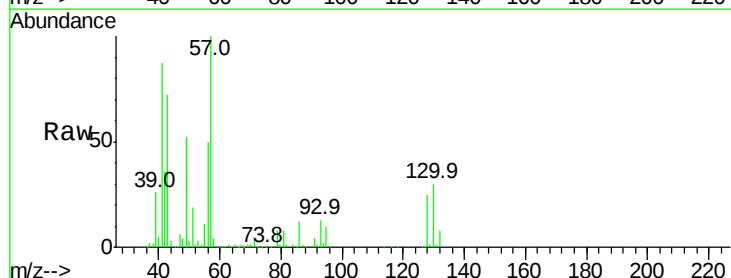
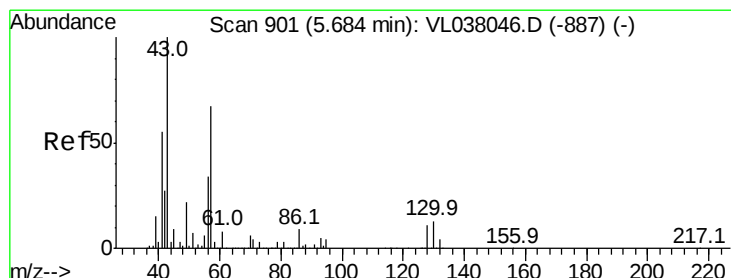
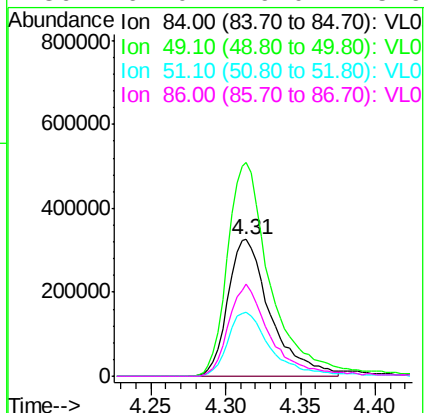


#20
Methvlene Chloride
Concen: 15.105 ppbv
RT: 4.31
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Dec 2021 20:44

Tot Ion:
Ion Ratio
84 100
49 155.
51 46.
86 67.0 49.0 73.6

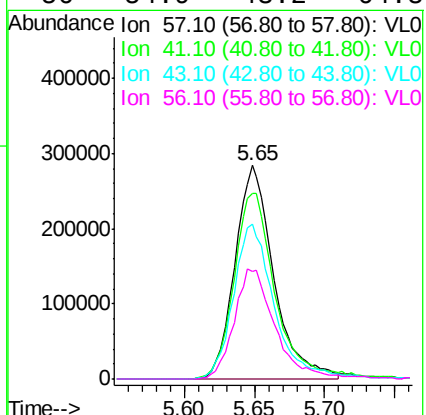
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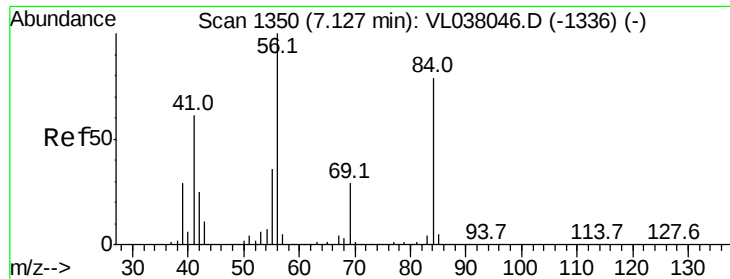
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#26
Hexane
Concen: 4.476 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.04 min
Lab File: VL038175.D
Acq: 14 Dec 2021 20:44

Tgt Ion: 57 Resp: 548198
Ion Ratio Lower Upper
57 100
41 93.6 71.4 107.2
43 77.1 174.6 261.8#
56 54.9 43.2 64.8



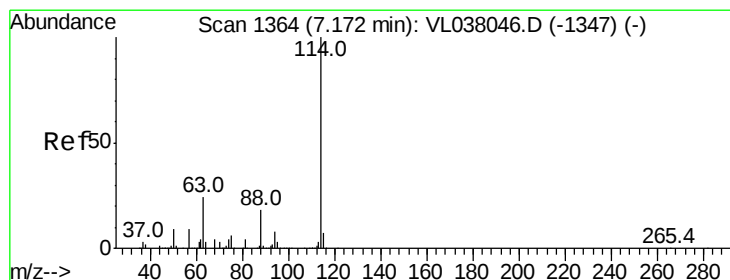
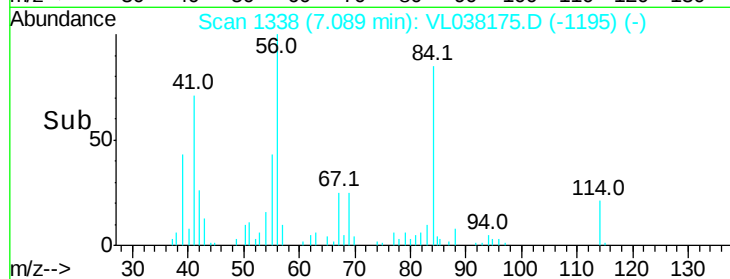
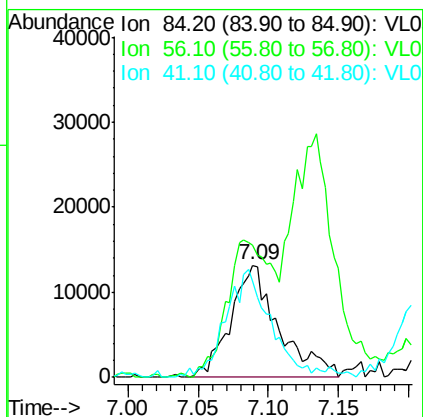
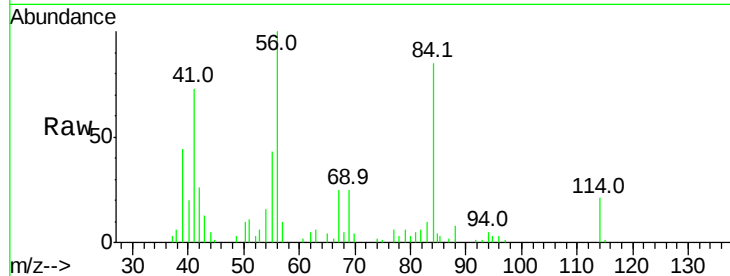


#30
Cyclohexane
Concen: 0.281 ppbv m
RT: 7.09
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Dec 2021 20:44

Tot Ion:
Ion Ratio
84 100
56 0.
41 0.

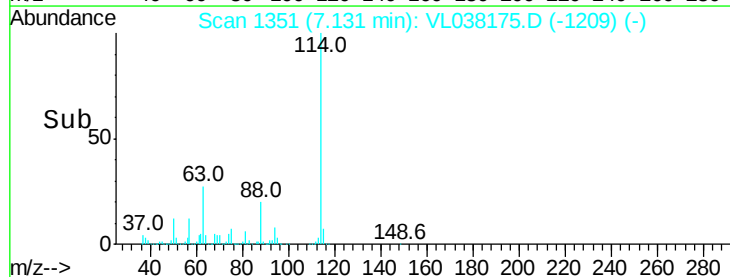
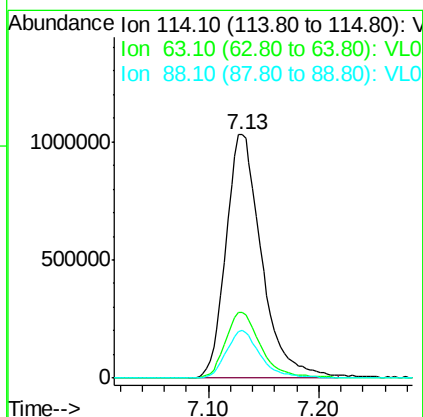
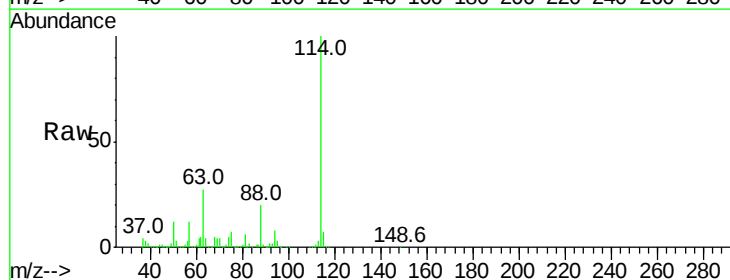
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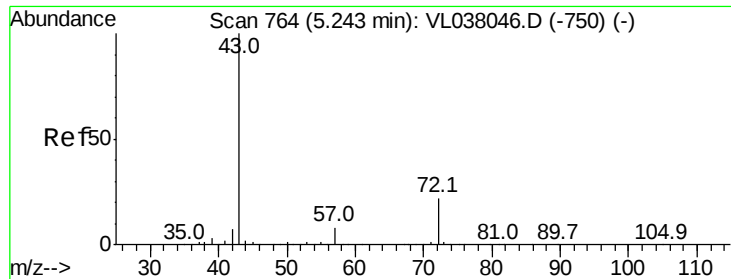
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.04 min
Lab File: VL038175.D
Acq: 14 Dec 2021 20:44

Tgt Ion:114 Resp: 2310559
Ion Ratio Lower Upper
114 100
63 27.1 19.7 29.5
88 19.0 14.4 21.6



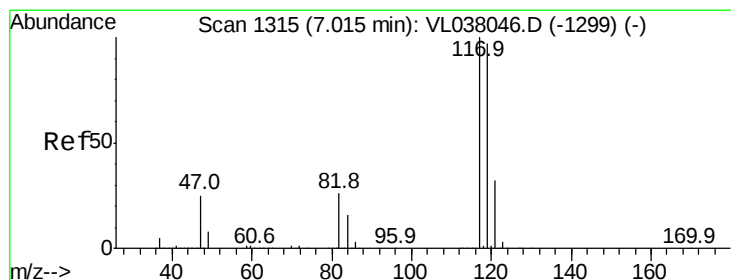
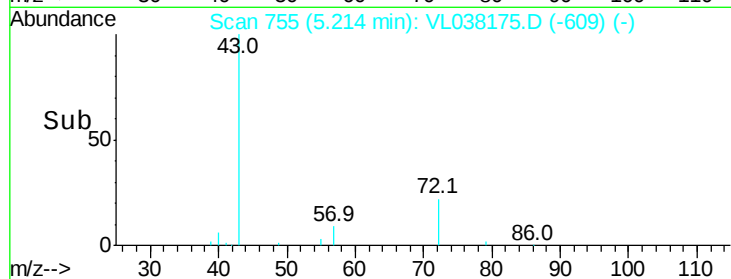
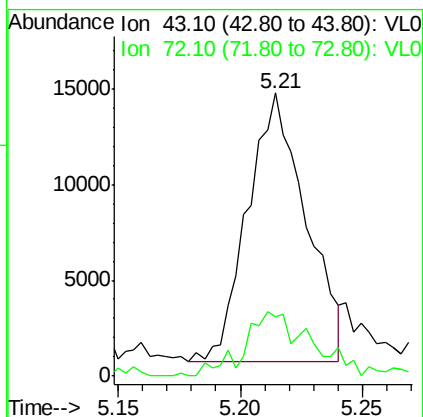
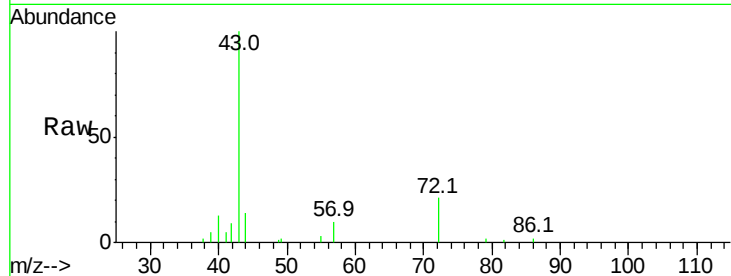


#34
2-Butanone
Concen: 0.250 ppbv
RT: 5.21
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 20:44

Tot Ion:
Ion Ratio
43 100
72 30.

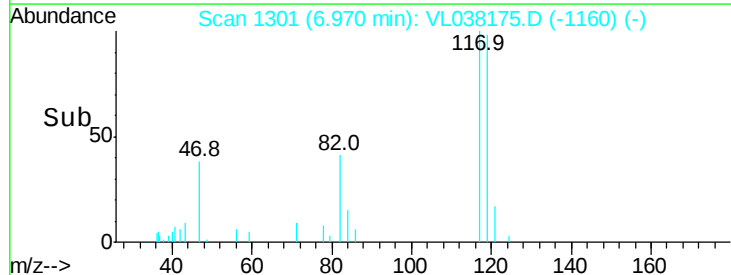
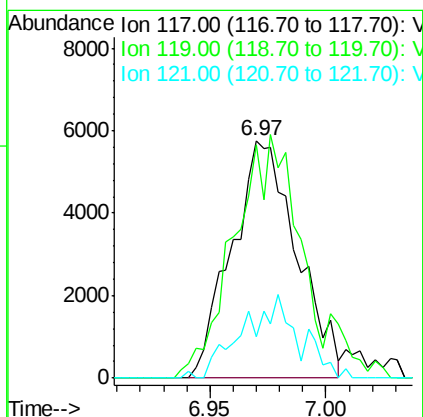
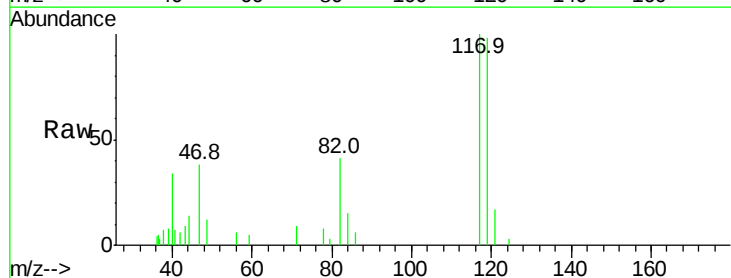
Manual Integrations
APPROVED

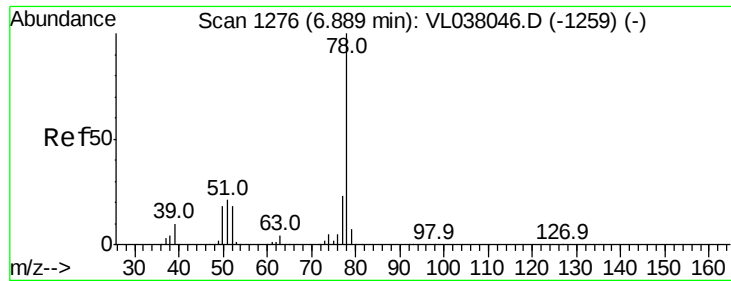
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#35
Carbon Tetrachloride
Concen: 0.069 ppbv
RT: 6.97 min Scan# 1301
Delta R.T. -0.05 min
Lab File: VL038175.D
Acq: 14 Dec 2021 20:44

Tgt Ion:117 Resp: 11222
Ion Ratio Lower Upper
117 100
119 92.2 77.7 116.5
121 17.3 25.6 38.4#



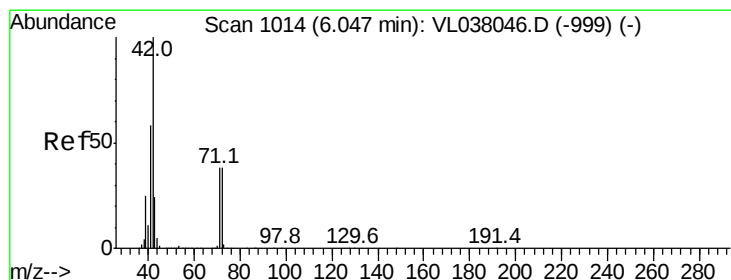
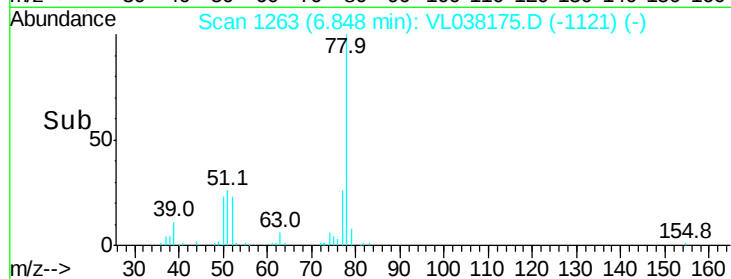
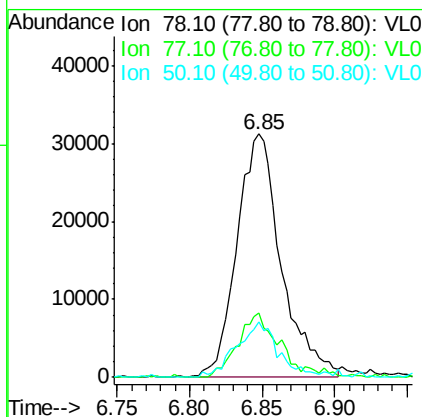
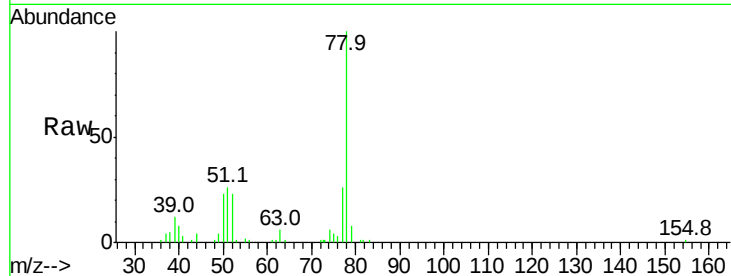


#36
Benzene
Concen: 0.288 ppbv
RT: 6.85
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 20:44

Tot Ion:
Ion Ratio
78 100
77 26.
50 22.

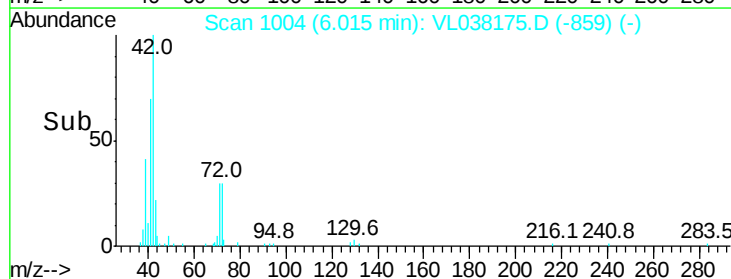
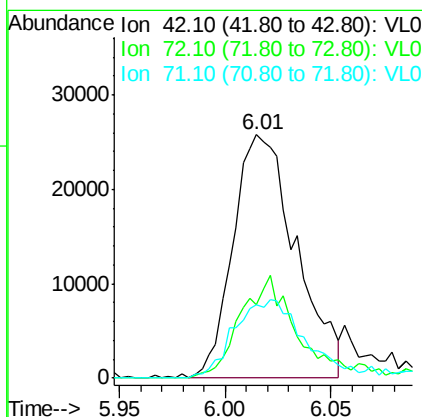
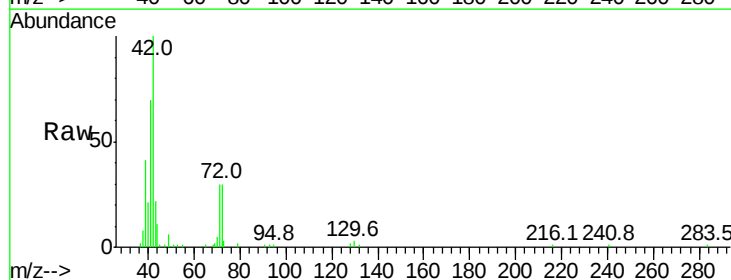
Manual Integrations
APPROVED

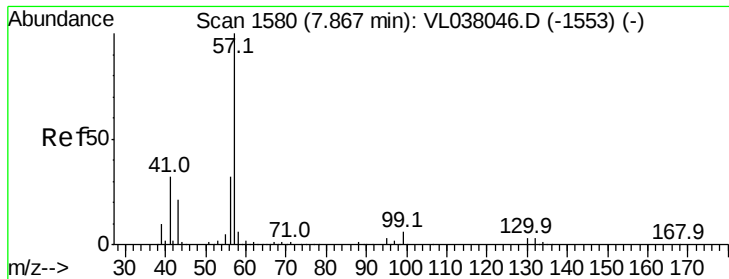
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#41
Tetrahydrofuran
Concen: 0.927 ppbv
RT: 6.01 min Scan# 1004
Delta R.T. -0.03 min
Lab File: VL038175.D
Acq: 14 Dec 2021 20:44

Tgt Ion: 42 Resp: 53592
Ion Ratio Lower Upper
42 100
72 40.8 31.7 47.5
71 36.6 30.6 46.0





#44

2,2,4-Trimethylpentane

Concen: 0.144 ppbv

RT: 7.83 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

AA-DSW

Acq: 14 Dec 2021 20:44

Tot Ion:

Ion Ratio

57 100

41 60.

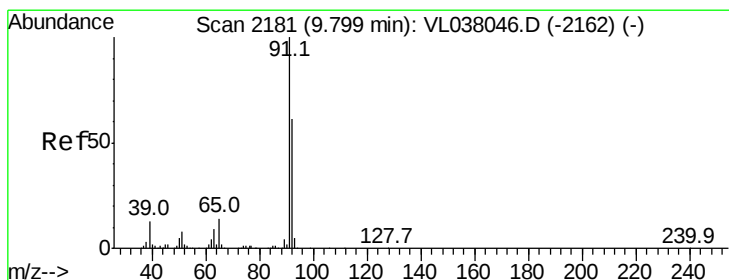
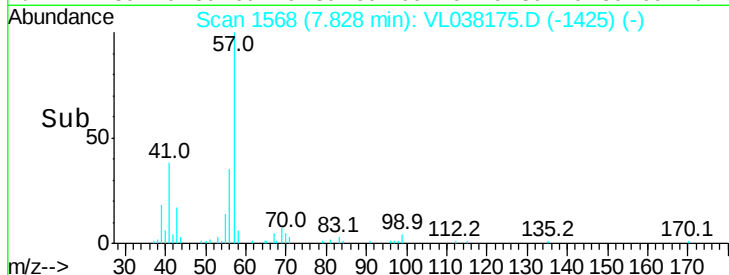
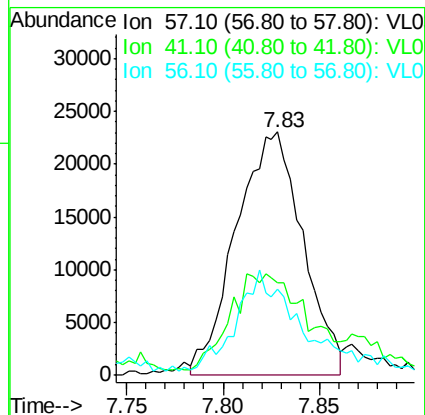
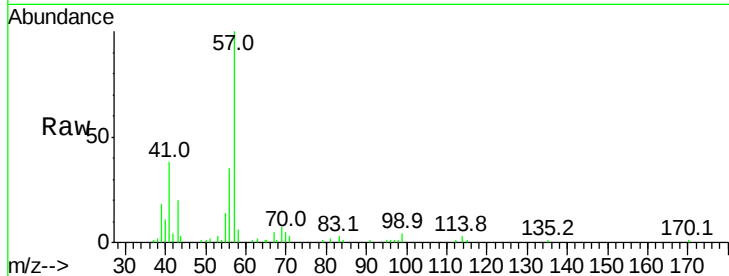
56 46.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#53

Toluene

Concen: 0.683 ppbv

RT: 9.76 min Scan# 2168

Delta R.T. -0.04 min

Lab File: VL038175.D

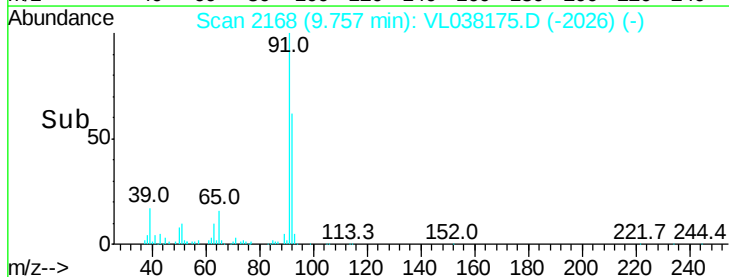
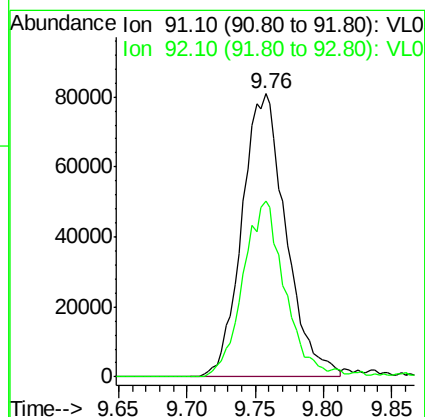
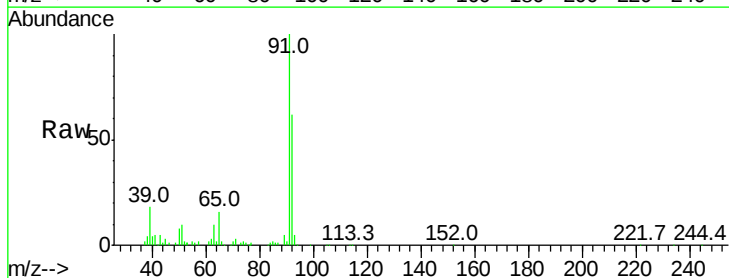
Acq: 14 Dec 2021 20:44

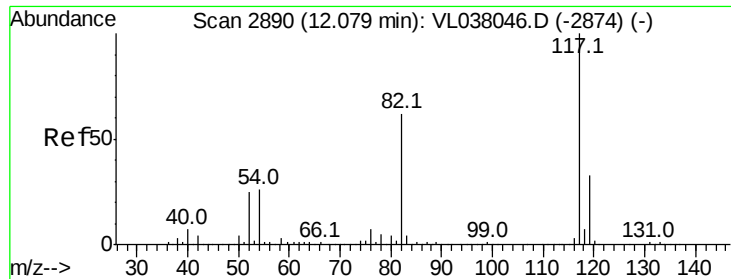
Tgt Ion: 91 Resp: 181056

Ion Ratio Lower Upper

91 100

92 59.8 49.7 74.5



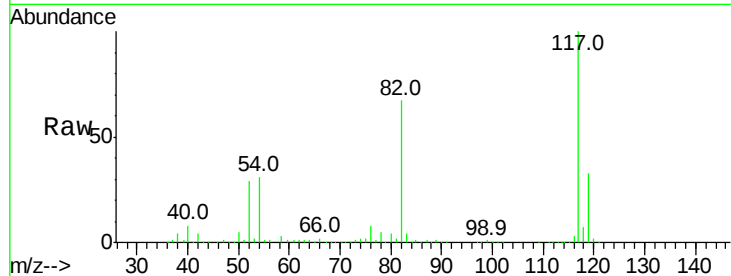


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.03 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Dec 2021 20:44

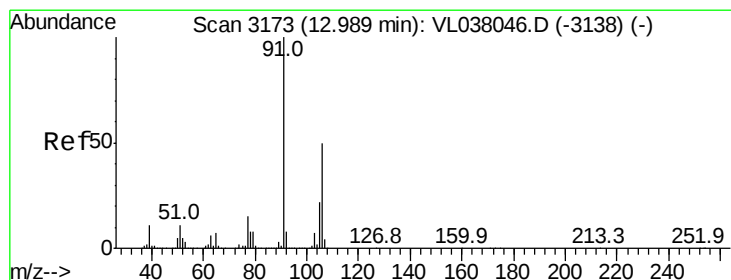
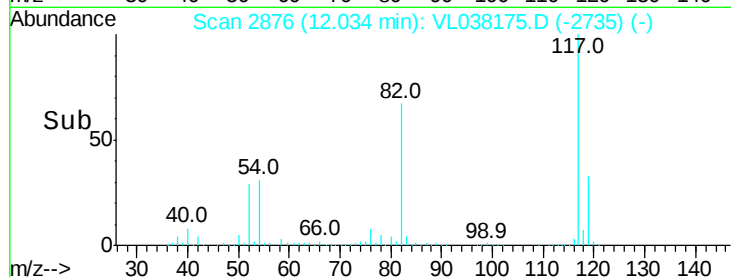
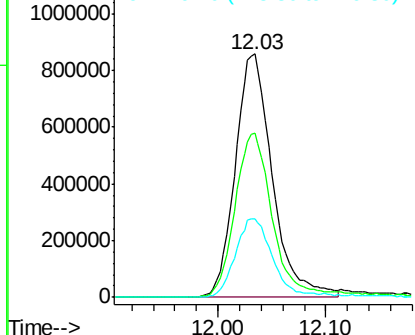
Tot Ion: 1
Ion Ratio
117 100
82 71.
119 33.

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Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021

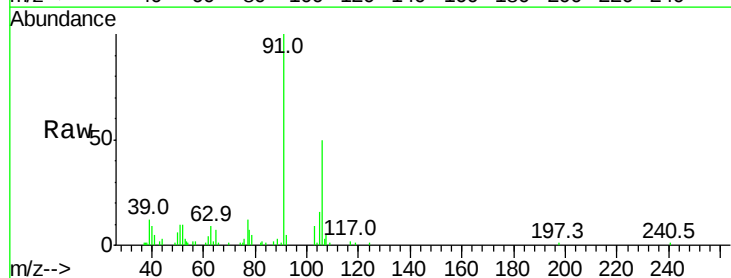


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

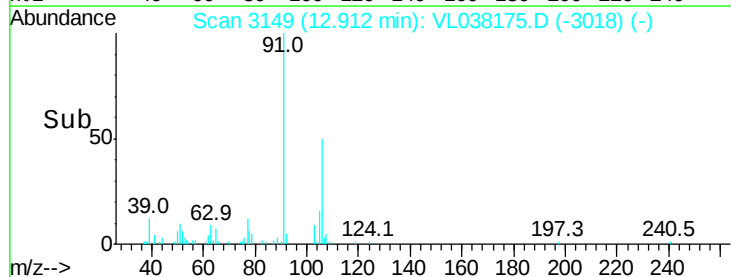
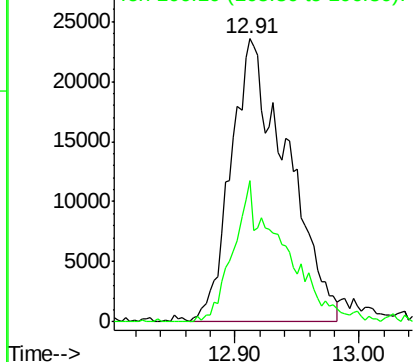


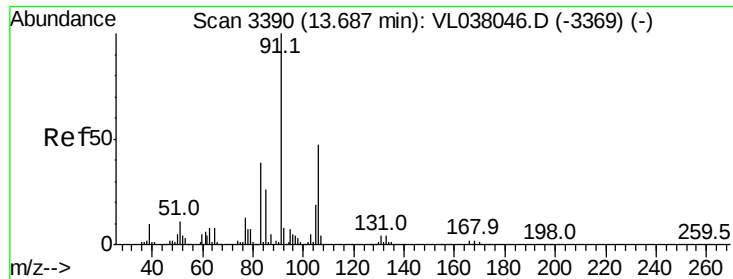
#59
m/p-Xylene
Concen: 0.259 ppbv m
RT: 12.91 min Scan# 3149
Delta R.T. -0.08 min
Lab File: VL038175.D
Acq: 14 Dec 2021 20:44

Tgt Ion: 91 Resp: 74077
Ion Ratio Lower Upper
91 100
106 0.0 38.1 57.1#



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





#60

o-Xylene

Concen: 0.136 ppbv m

RT: 13.64

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 20:44

Tot Ion:

Ion Ratio

91 100

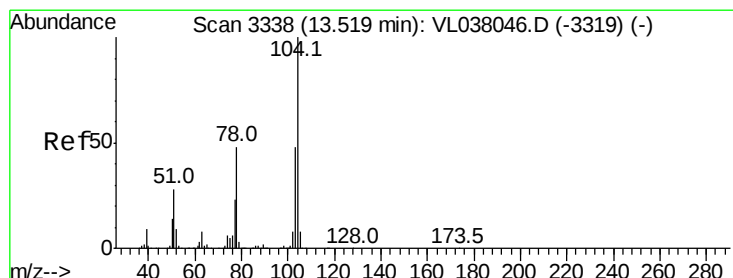
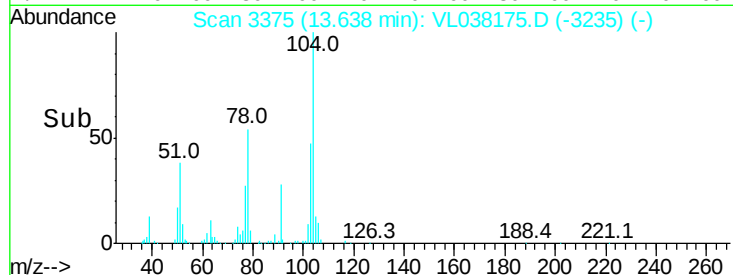
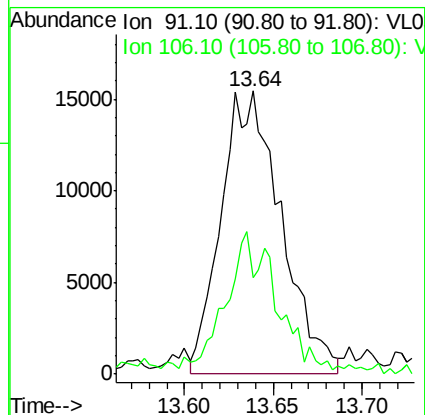
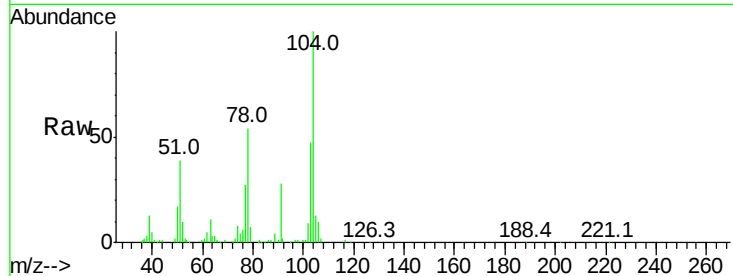
106 45.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#61

Styrene

Concen: 52.787 ppbv

RT: 13.48 min Scan# 3325

Delta R.T. -0.04 min

Lab File: VL038175.D

Acq: 14 Dec 2021 20:44

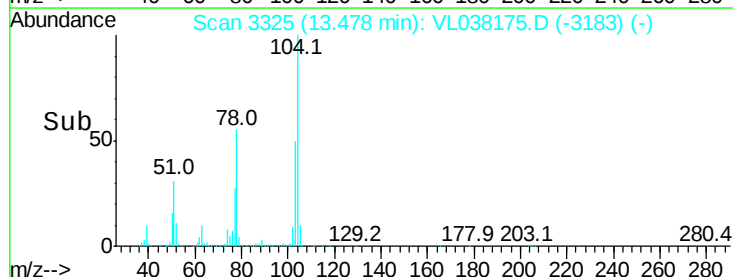
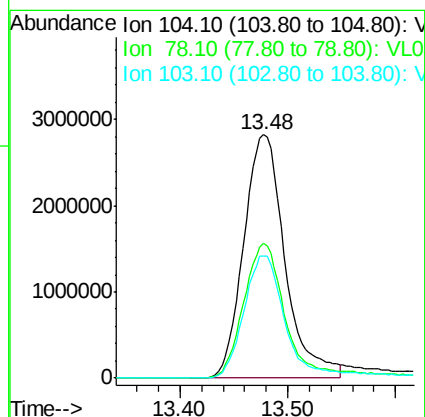
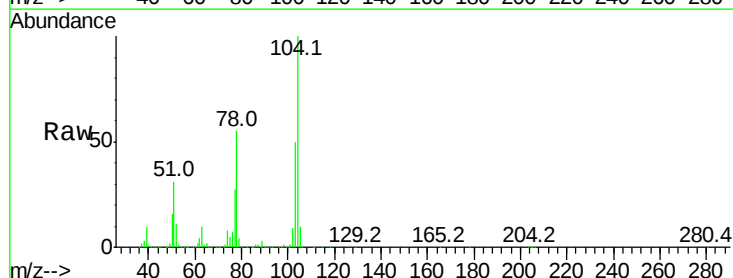
Tgt Ion:104 Resp: 7517686

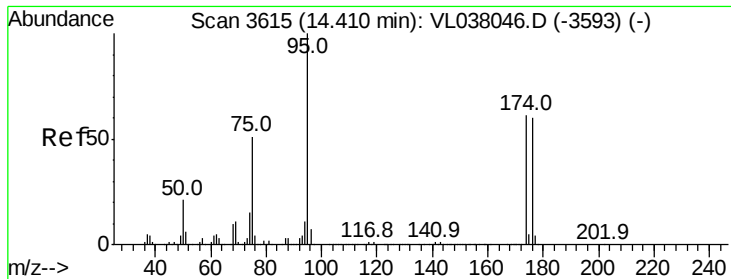
Ion Ratio Lower Upper

104 100

78 59.4 39.8 59.6

103 53.1 38.2 57.2





#68

1-Bromo-4-Fluorobenzene

Concen: 11.109 ppbv

RT: 14.36

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 20:44

Tot Ion:

Ion Ratio

95 100

174 65.

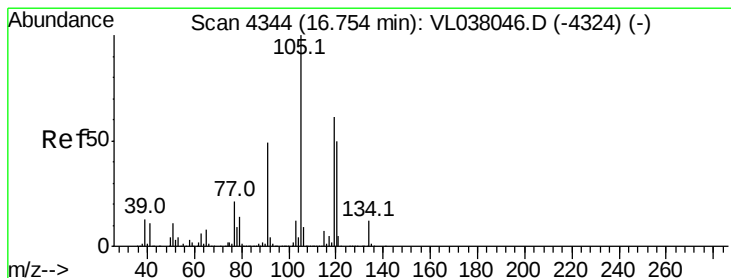
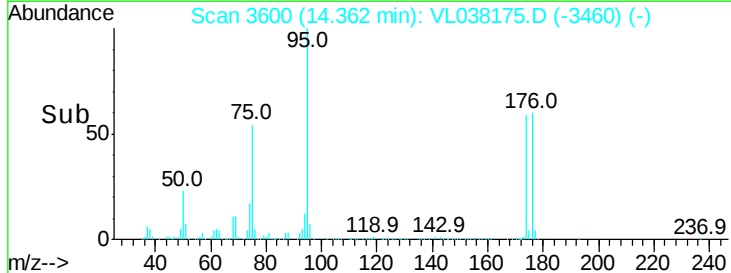
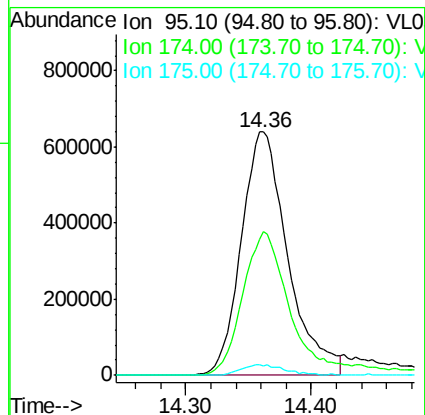
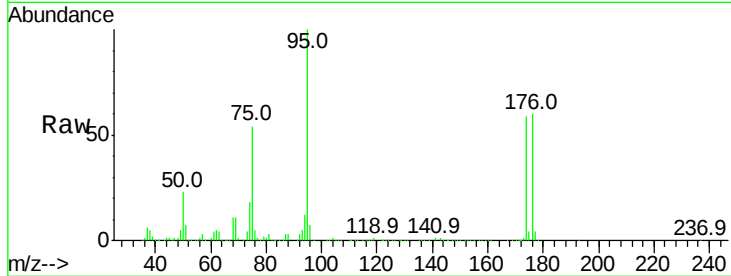
175 4.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/15/2021

Supervised By :Semsettin Yesilyurt 12/16/2021



#74

1,2,4-Trimethylbenzene

Concen: 0.104 ppbv m

RT: 16.71 min Scan# 4331

Delta R.T. -0.04 min

Lab File: VL038175.D

Acq: 14 Dec 2021 20:44

Tgt Ion:105 Resp: 30183

Ion Ratio Lower Upper

105 100

120 41.0 40.1 60.1

91 21.9 39.8 59.8#

77 11.5 16.6 25.0#

