

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122921\
 Data File : VL038237.D
 Acq On : 29 Dec 2021 17:59
 Operator : SY/AP
 Sample : M5217-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/30/2021
 Supervised By :Semsettin Yesilyurt 01/02/2022

Quant Time: Dec 29 19:58:56 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec 29 19:58:56 2021

QLast Update : Tue Dec 21 17:47:08 2021

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.671	49	667920	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.179	114	1797414	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.089	117	1469146	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.416	95	1165135	10.291	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.057	85	30849	0.245	ppbv	94
4) Chloromethane	3.147	50	21523m	0.442	ppbv	
9) Propene	3.025	41	127086m	2.608	ppbv	
10) Heptane	8.127	43	32237	0.261	ppbv	98
11) Trichlorofluoromethane	3.957	101	23918	0.207	ppbv	98
13) Ethanol	3.636	45	1215758	147.147	ppbv #	100
15) Acetone	3.857	43	605227	9.029	ppbv	90
19) Isopropyl Alcohol	4.009	45	61006m	1.459	ppbv	
20) Methylene Chloride	4.349	84	5572305	147.236	ppbv	96
26) Hexane	5.693	57	2748925	30.168	ppbv #	45
29) Chloroform	5.758	83	40457	0.299	ppbv	97
30) Cyclohexane	7.140	84	29114m	0.361	ppbv	
34) 2-Butanone	5.259	43	54082m	1.001	ppbv	
35) Carbon Tetrachloride	7.025	117	10136m	0.091	ppbv	
36) Benzene	6.896	78	120968	0.722	ppbv	94
38) Trichloroethene	7.838	130	1955	0.031	ppbv #	46
44) 2,2,4-Trimethylpentane	7.873	57	104716	0.368	ppbv	93
52) Tetrachloroethene	11.220	164	6265m	0.101	ppbv	
53) Toluene	9.806	91	236882	1.224	ppbv	100
58) Ethyl Benzene	12.706	91	59238m	0.260	ppbv	
59) m/p-Xylene	12.970	91	156344	0.802	ppbv	98
60) o-Xylene	13.690	91	52821	0.292	ppbv	97
74) 1,2,4-Trimethylbenzene	16.767	105	48971	0.250	ppbv #	74

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

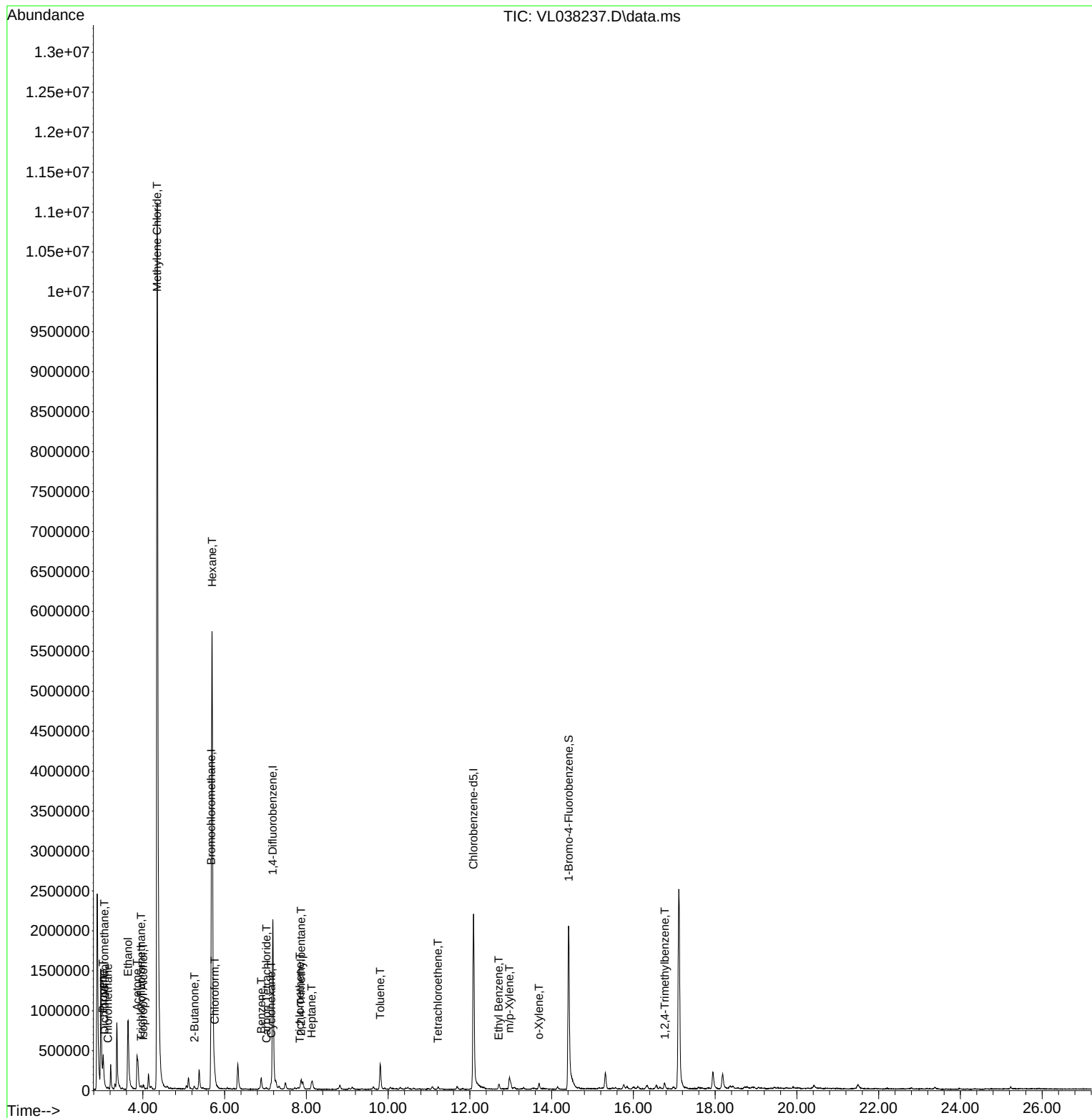
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122921\
Data File : VL038237.D
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Operator : SY/AP
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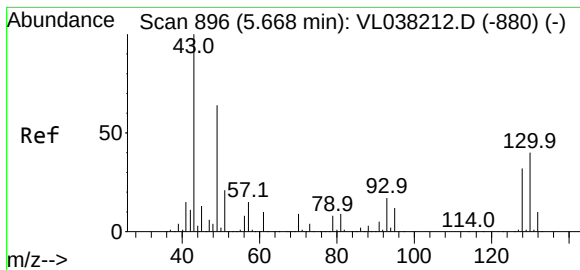
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Dec 29 19:58:56 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec
QLast Update : Tue Dec 21 17:47:08 2021
Response via : Initial Calibration

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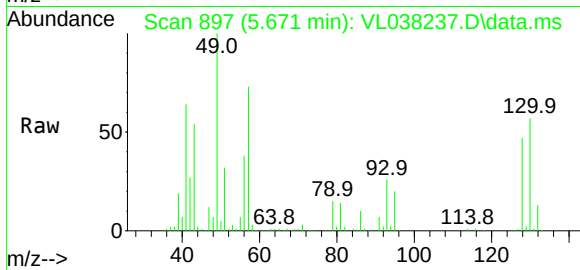
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.671 min Scan# 896
Delta R.T. 0.003 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59

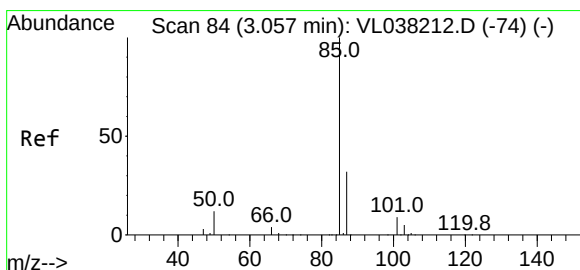
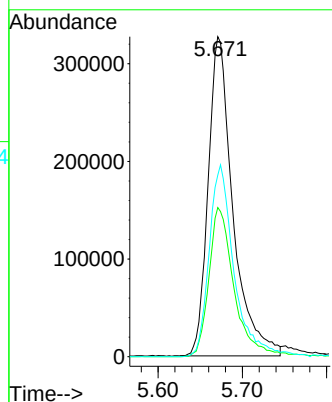
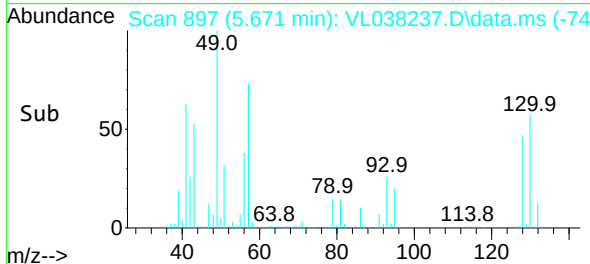
Instrument :
MSVOA_L
ClientSampleId :
SV1



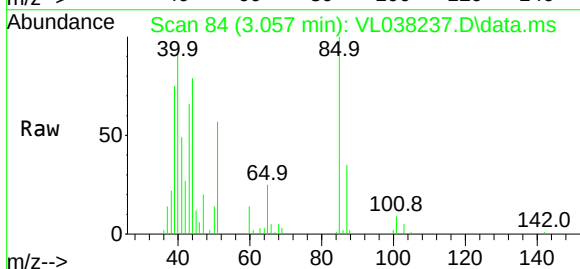
Tgt Ion: 49 Resp: 667920
Ion Ratio Lower Upper
49 100
128 48.3 26.9 80.6
130 61.3 32.3 96.9

Manual Integrations
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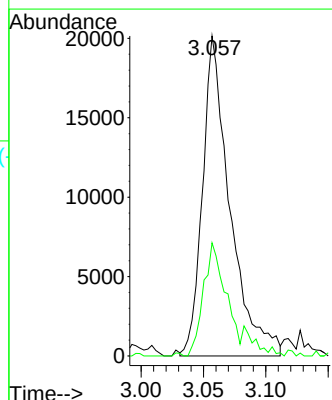
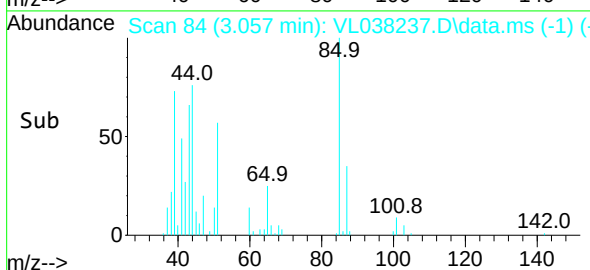
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

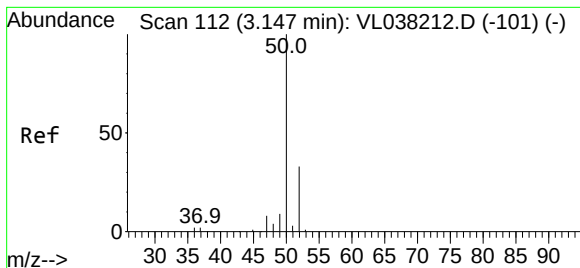


#2
Dichlorodifluoromethane
Concen: 0.245 ppbv
RT: 3.057 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59



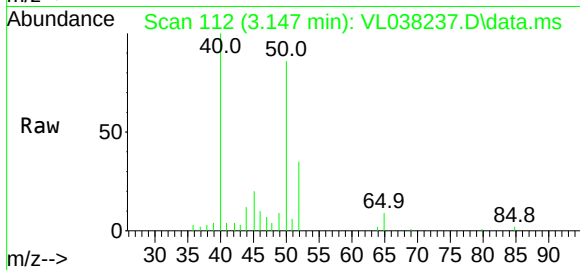
Tgt Ion: 85 Resp: 30849
Ion Ratio Lower Upper
85 100
87 34.9 25.4 38.2





#4
Chloromethane
Concen: 0.442 ppbv m
RT: 3.147 min Scan# 112
Delta R.T. -0.000 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59

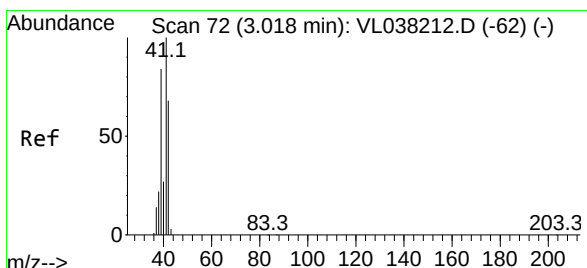
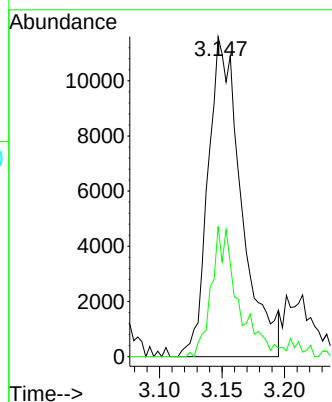
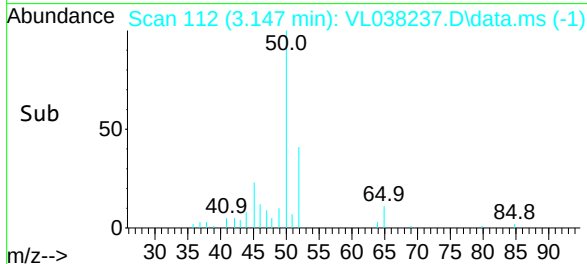
Instrument :
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SV1



Tgt Ion: 50 Resp: 2152
Ion Ratio Lower Upper
50 100
52 40.7 26.2 39.2

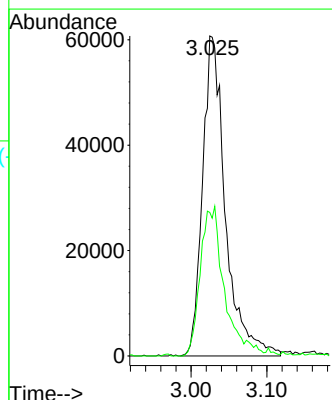
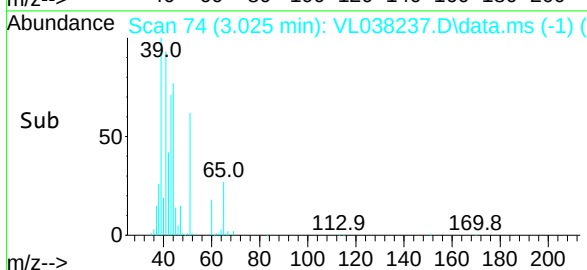
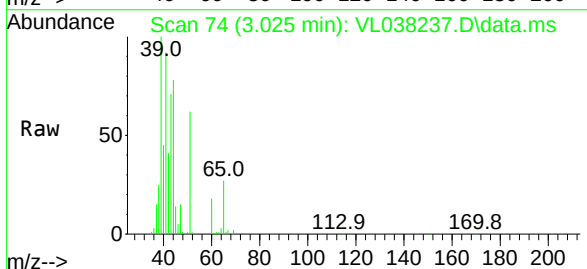
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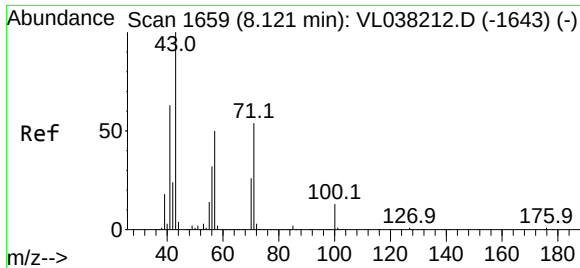
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#9
Propene
Concen: 2.608 ppbv m
RT: 3.025 min Scan# 74
Delta R.T. 0.006 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59

Tgt Ion: 41 Resp: 127086
Ion Ratio Lower Upper
41 100
42 49.1 55.5 83.3





#10

Heptane

Concen: 0.261 ppbv

RT: 8.127 min Scan# 1

Delta R.T. 0.006 min

Lab File: VL038237.D

Acq: 29 Dec 2021 17:59

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 43 Resp: 3223

Ion Ratio Lower Upper

43 100

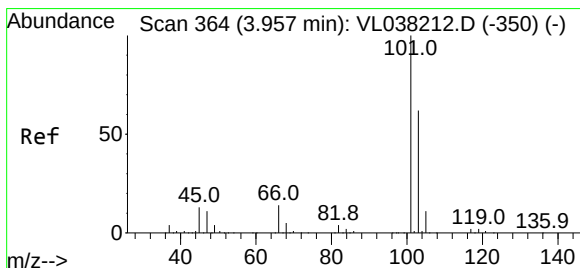
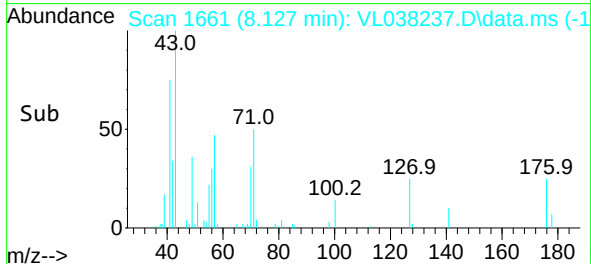
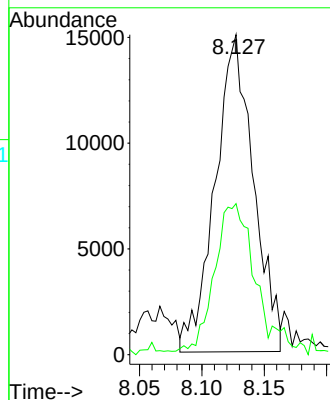
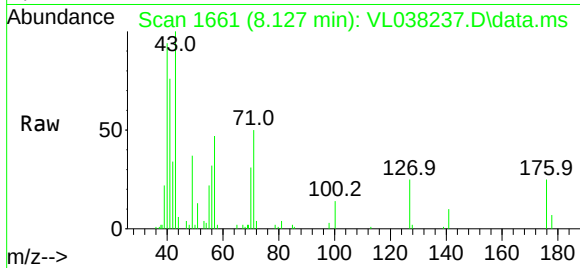
57 52.1 40.3 60.5

Manual Integrations

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#11

Trichlorofluoromethane

Concen: 0.207 ppbv

RT: 3.957 min Scan# 364

Delta R.T. -0.000 min

Lab File: VL038237.D

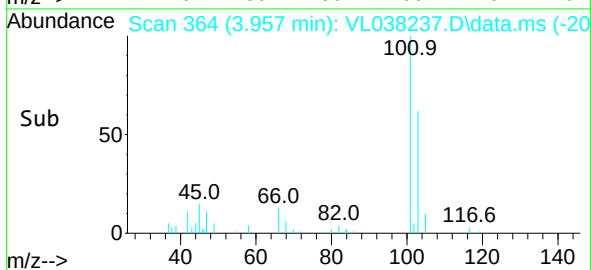
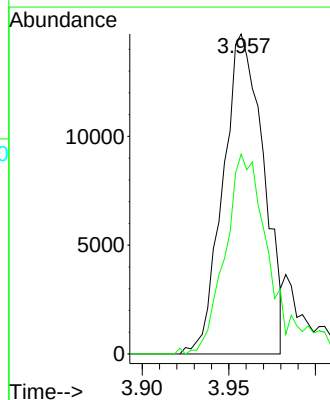
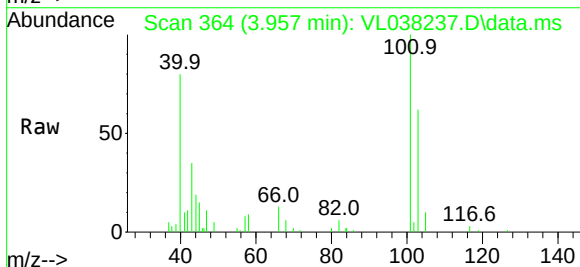
Acq: 29 Dec 2021 17:59

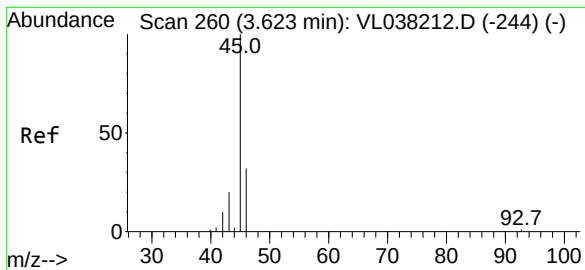
Tgt Ion:101 Resp: 23918

Ion Ratio Lower Upper

101 100

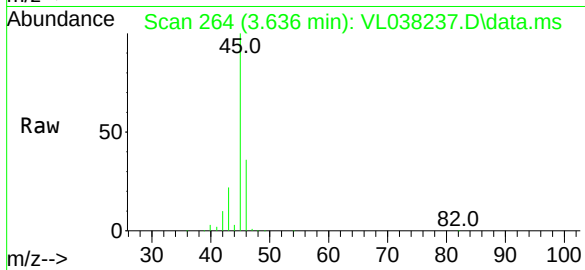
103 60.7 49.9 74.9





#13
Ethanol
Concen: 147.147 ppbv
RT: 3.636 min Scan# 20
Delta R.T. 0.013 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59

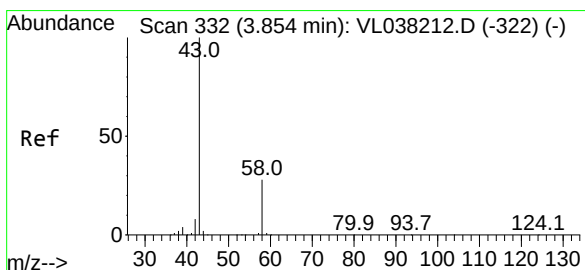
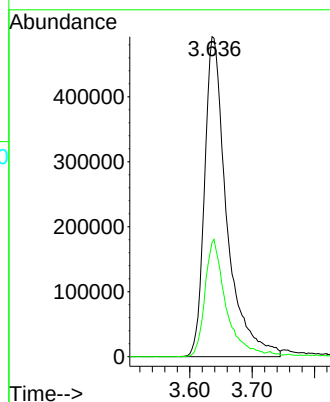
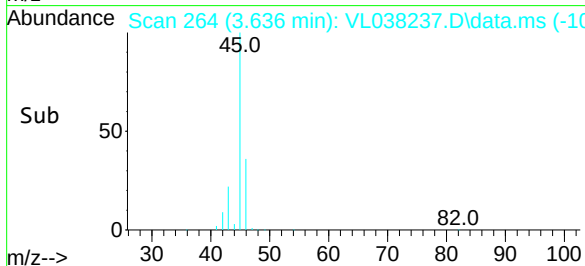
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 45 Resp: 1215758
Ion Ratio Lower Upper
45 100
46 36.3 0.0 0.0

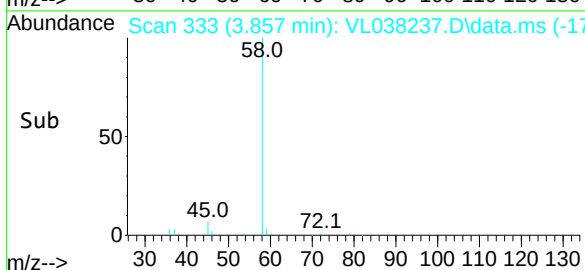
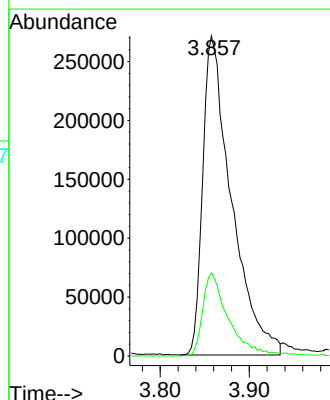
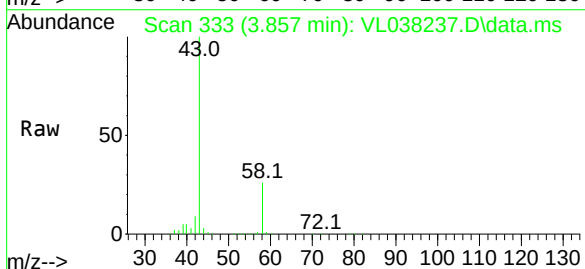
Manual Integrations
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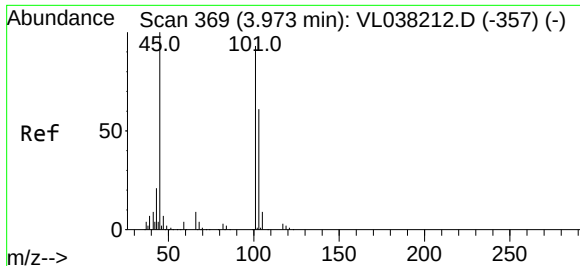
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#15
Acetone
Concen: 9.029 ppbv
RT: 3.857 min Scan# 333
Delta R.T. 0.003 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59

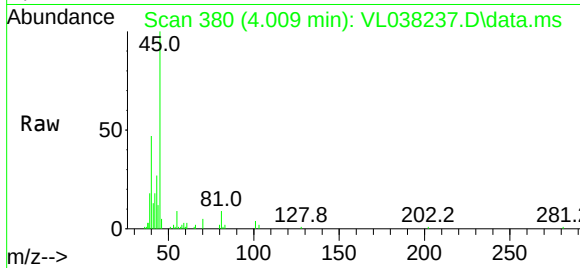
Tgt Ion: 43 Resp: 605227
Ion Ratio Lower Upper
43 100
58 23.6 23.3 34.9





#19
Isopropyl Alcohol
Concen: 1.459 ppbv m
RT: 4.009 min Scan# 380
Delta R.T. 0.035 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59

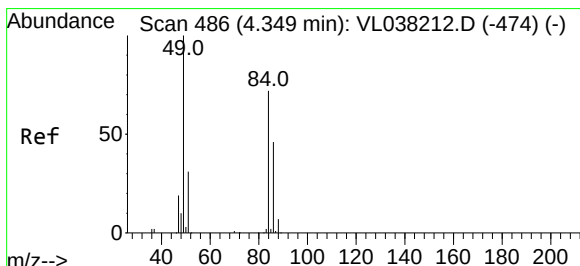
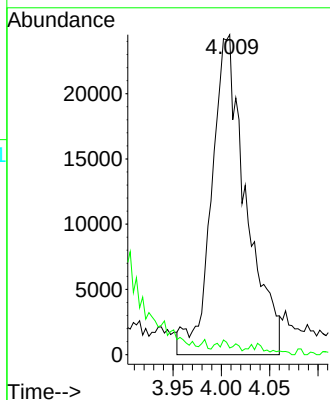
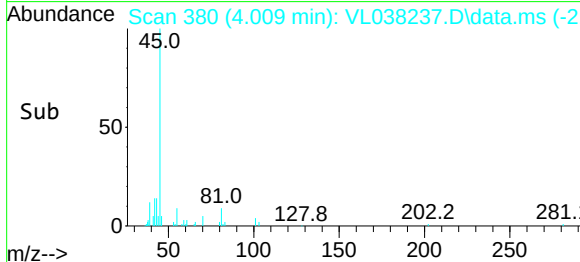
Instrument :
MSVOA_L
ClientSampleId :
SV1



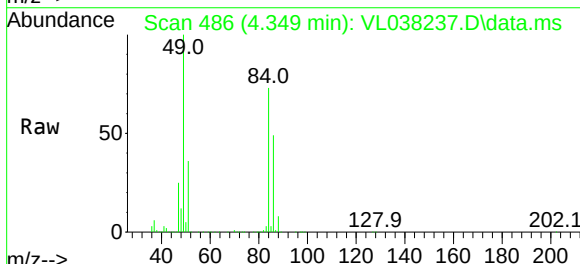
Tgt Ion: 45 Resp: 61000
Ion Ratio Lower Upper
45 100
58 235.5 32.4 48.6

Manual Integrations
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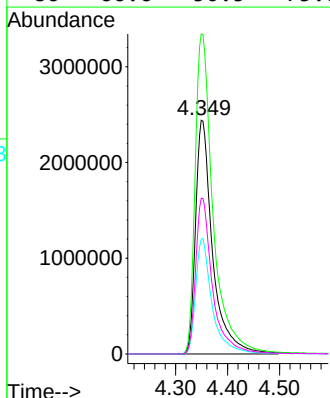
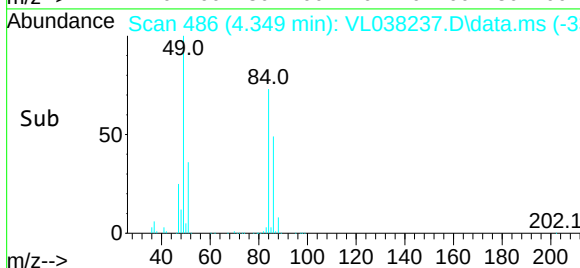
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

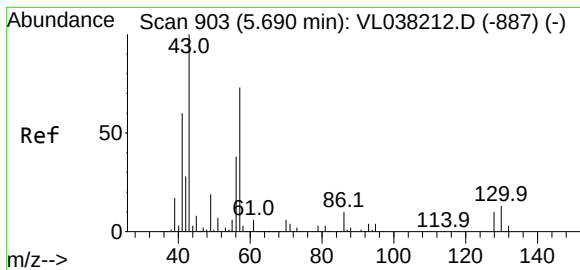


#20
Methylene Chloride
Concen: 147.236 ppbv
RT: 4.349 min Scan# 486
Delta R.T. -0.000 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59



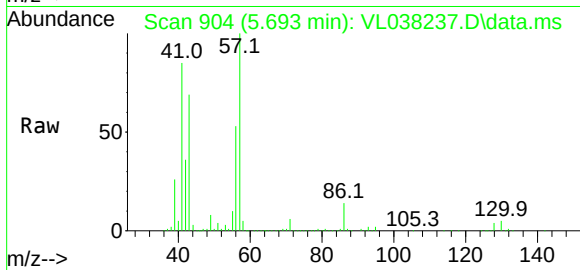
Tgt Ion: 84 Resp: 5572305
Ion Ratio Lower Upper
84 100
49 136.8 110.6 166.0
51 49.0 34.2 51.2
86 66.6 50.5 75.7





#26
Hexane
Concen: 30.168 ppbv
RT: 5.693 min Scan# 903
Delta R.T. 0.003 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59

Instrument :
MSVOA_L
ClientSampleId :
SV1

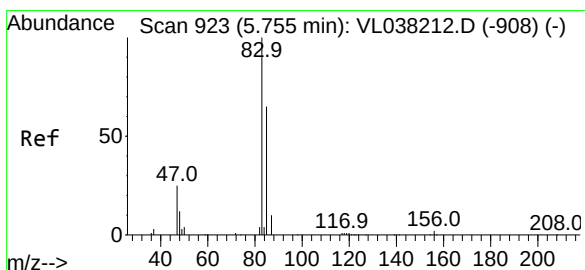
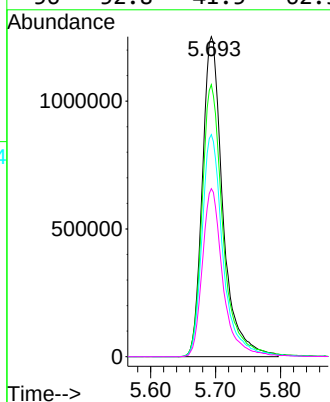
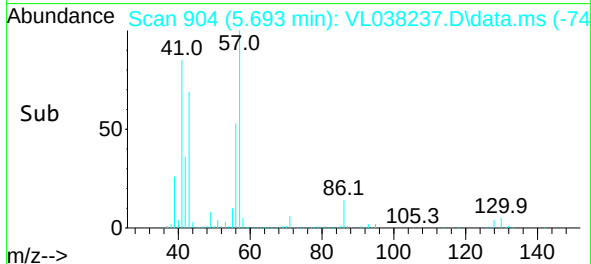


Tgt Ion: 57 Resp: 274892

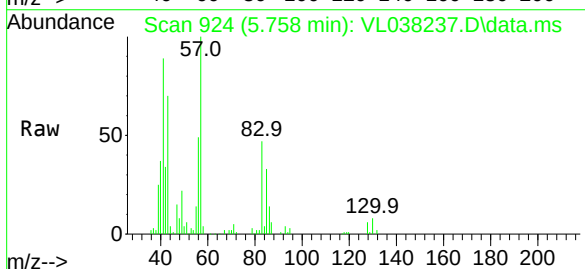
Ion	Ratio	Lower	Upper
57	100		
41	87.1	69.0	103.6
43	71.0	171.2	256.8
56	52.8	41.5	62.3

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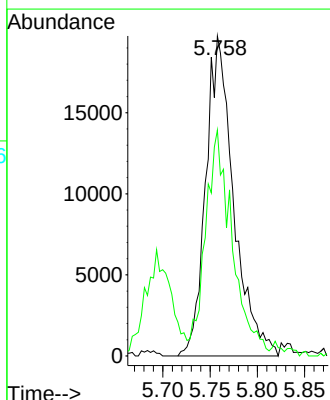
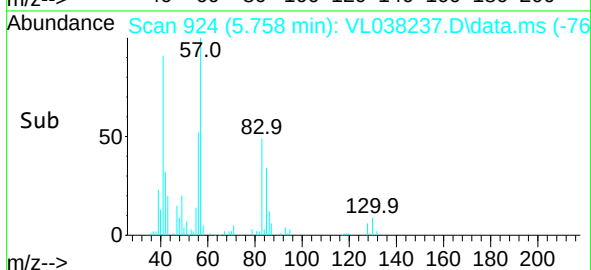


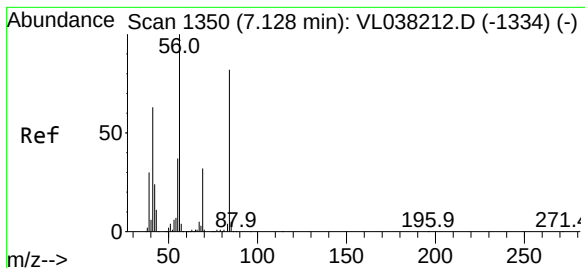
#29
Chloroform
Concen: 0.299 ppbv
RT: 5.758 min Scan# 924
Delta R.T. 0.003 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59



Tgt Ion: 83 Resp: 40457

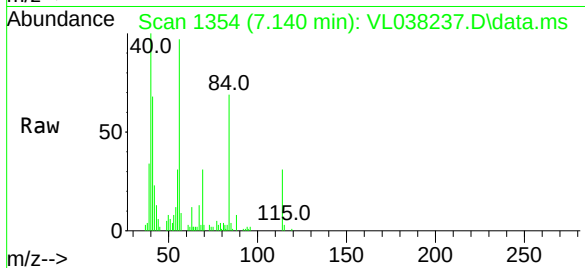
Ion	Ratio	Lower	Upper
83	100		
85	68.0	52.2	78.4





#30
Cyclohexane
Concen: 0.361 ppbv m
RT: 7.140 min Scan# 1350
Delta R.T. 0.013 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59

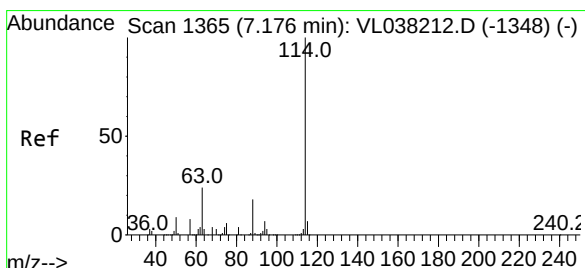
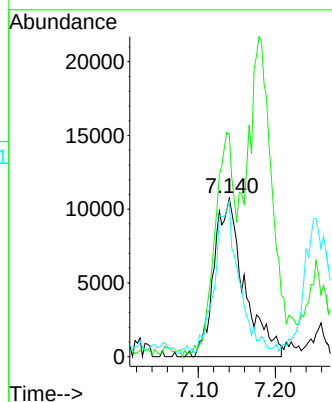
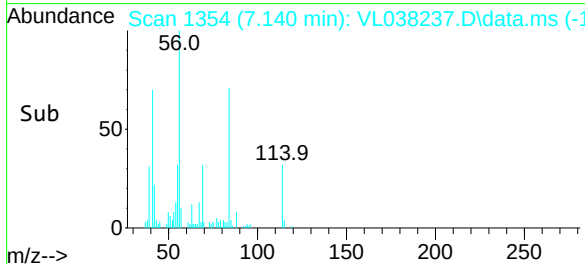
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 29114
Ion Ratio Lower Upper
84 100
56 0.0 105.2 157.8
41 0.0 63.2 94.8

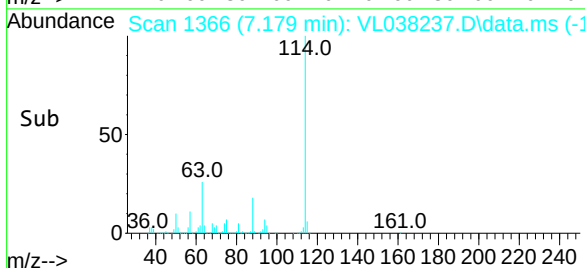
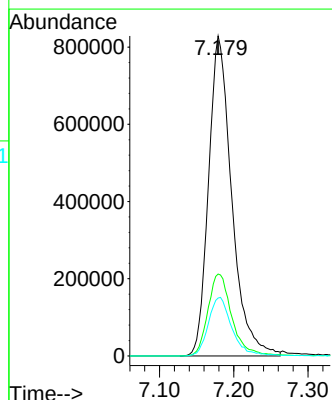
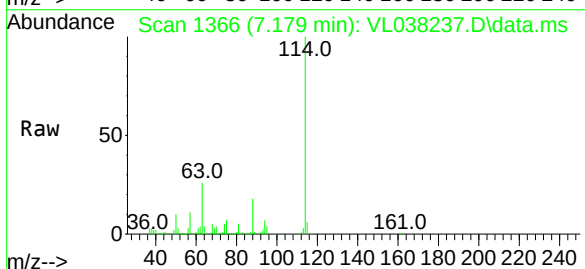
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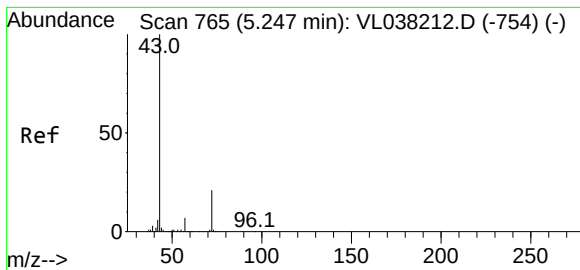
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.179 min Scan# 1366
Delta R.T. 0.003 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59

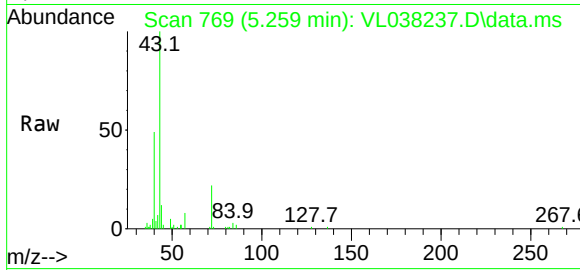
Tgt Ion:114 Resp: 1797414
Ion Ratio Lower Upper
114 100
63 26.7 19.7 29.5
88 18.7 14.3 21.5





#34
2-Butanone
Concen: 1.001 ppbv m
RT: 5.259 min Scan# 769
Delta R.T. 0.013 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59

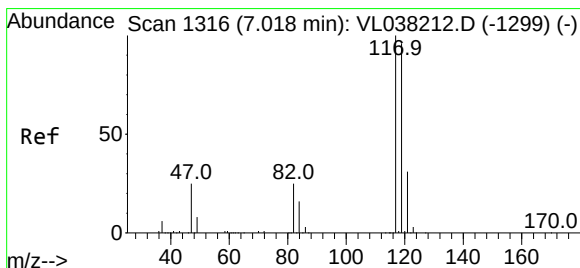
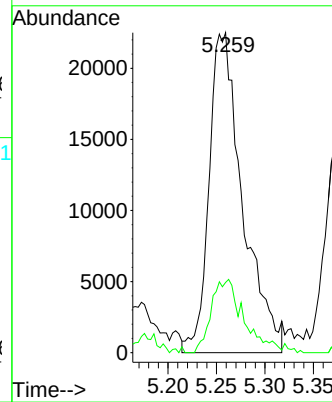
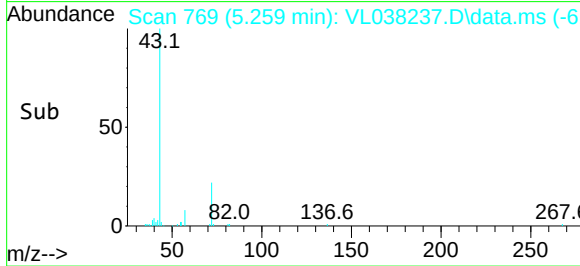
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 5408
Ion Ratio Lower Upper
43 100
72 22.7 18.3 27.5

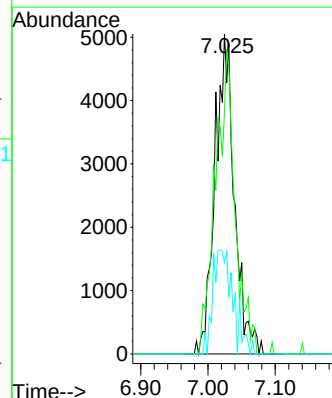
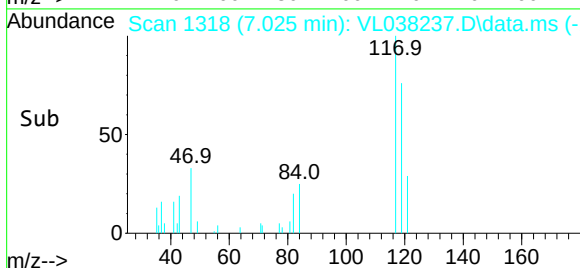
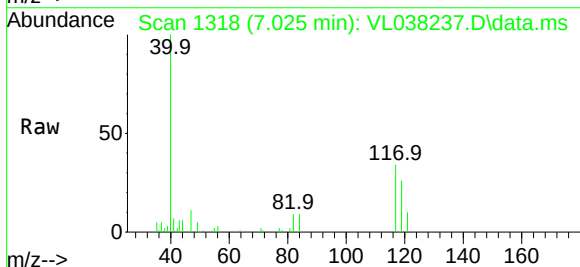
Manual Integrations
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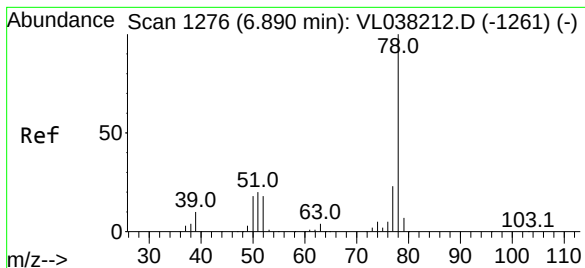
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#35
Carbon Tetrachloride
Concen: 0.091 ppbv m
RT: 7.025 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59

Tgt Ion:117 Resp: 10136
Ion Ratio Lower Upper
117 100
119 75.8 76.7 115.1#
121 28.7 25.0 37.4





#36

Benzene

Concen: 0.722 ppbv

RT: 6.896 min Scan# 1

Delta R.T. 0.006 min

Lab File: VL038237.D

Acq: 29 Dec 2021 17:59

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 78 Resp: 12096

Ion Ratio Lower Upper

78 100

77 18.7 18.2 27.4

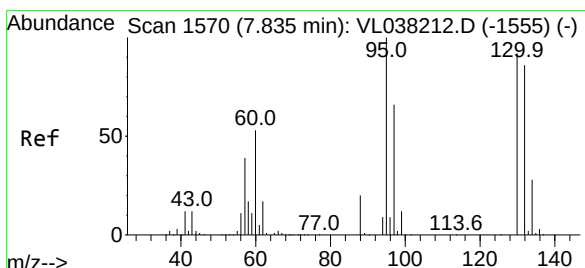
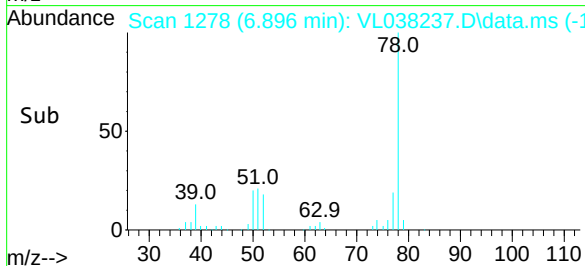
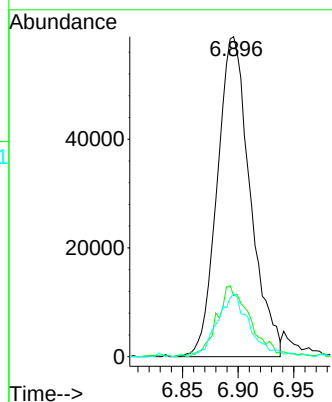
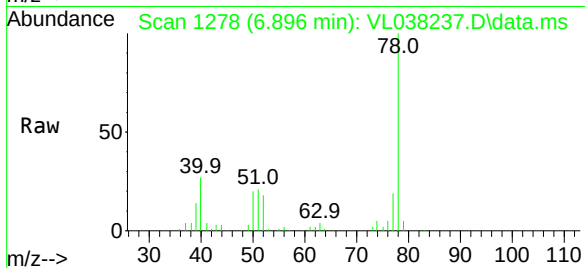
50 18.9 14.3 21.5

Manual Integrations

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Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022



#38

Trichloroethene

Concen: 0.031 ppbv

RT: 7.838 min Scan# 1571

Delta R.T. 0.003 min

Lab File: VL038237.D

Acq: 29 Dec 2021 17:59

Tgt Ion:130 Resp: 1955

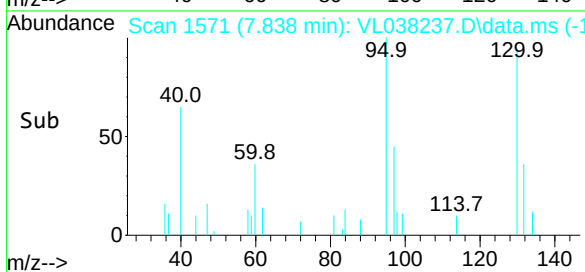
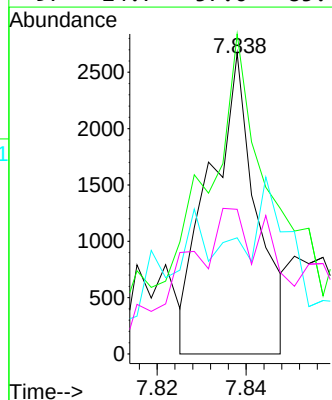
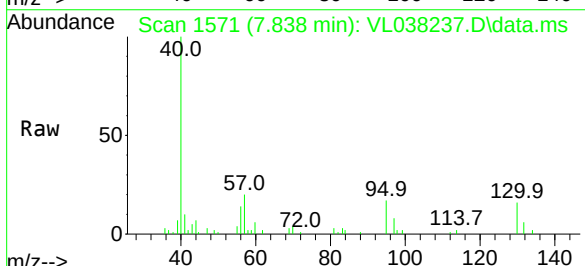
Ion Ratio Lower Upper

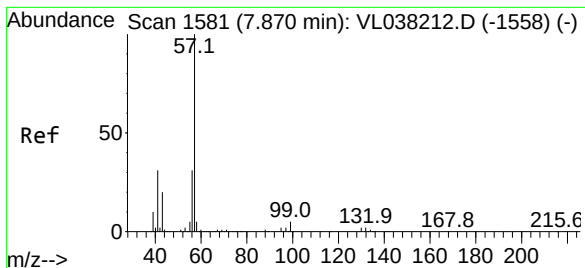
130 100

95 81.5 87.0 130.4#

132 12.7 75.1 112.7#

97 24.7 57.0 85.4#





#44

2,2,4-Trimethylpentane

Concen: 0.368 ppbv

RT: 7.873 min Scan# 1581

Delta R.T. 0.003 min

Lab File: VL038237.D

Acq: 29 Dec 2021 17:59

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 57 Resp: 104710

Ion Ratio Lower Upper

57 100

41 33.2 24.9 37.3

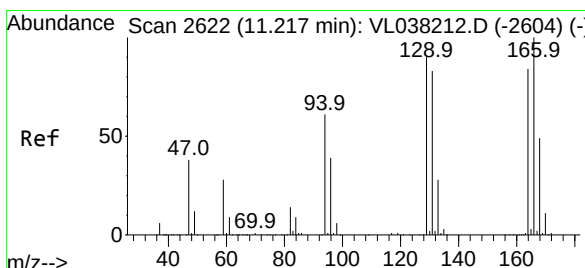
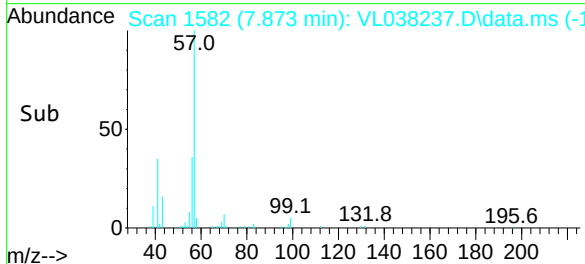
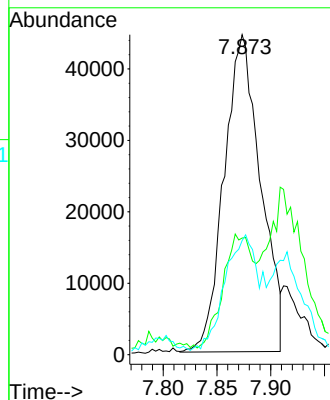
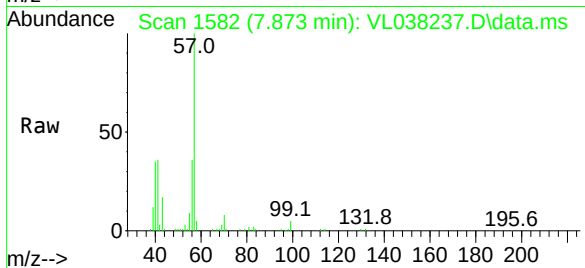
56 36.7 24.8 37.2

Manual Integrations

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Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022



#52

Tetrachloroethene

Concen: 0.101 ppbv m

RT: 11.220 min Scan# 2623

Delta R.T. 0.003 min

Lab File: VL038237.D

Acq: 29 Dec 2021 17:59

Tgt Ion:164 Resp: 6265

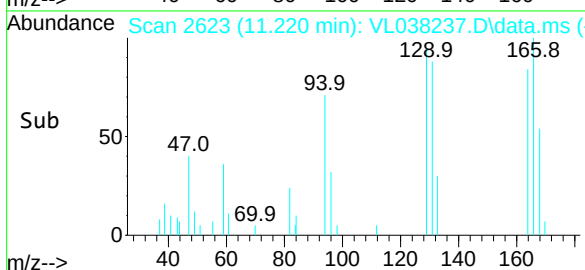
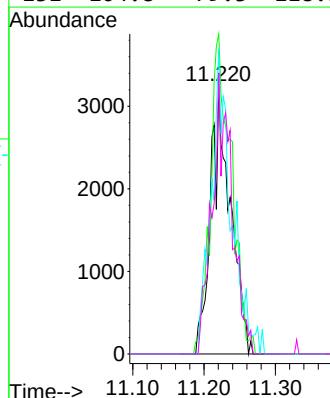
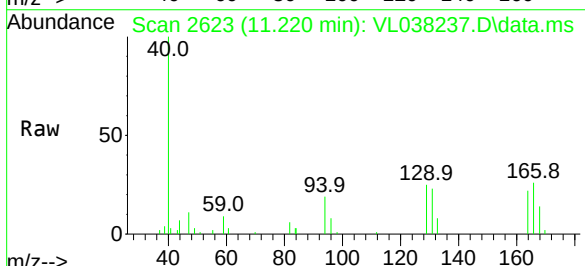
Ion Ratio Lower Upper

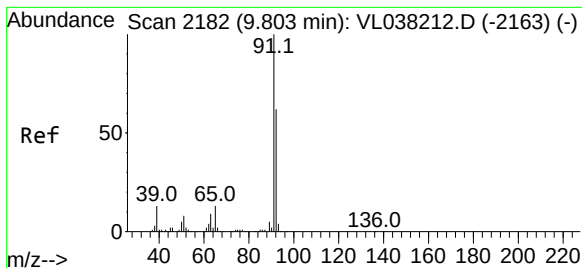
164 100

166 119.3 95.6 143.4

129 113.8 85.8 128.8

131 104.8 79.3 118.9





#53

Toluene

Concen: 1.224 ppbv

RT: 9.806 min Scan# 2182

Delta R.T. 0.003 min

Lab File: VL038237.D

Acq: 29 Dec 2021 17:59

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 23688

Ion Ratio Lower Upper

91 100

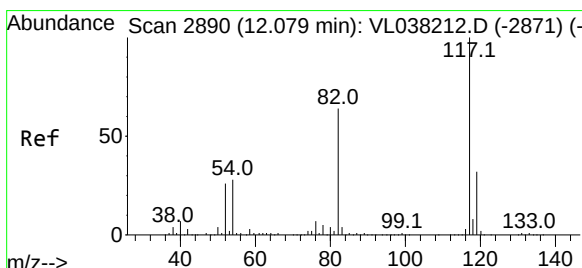
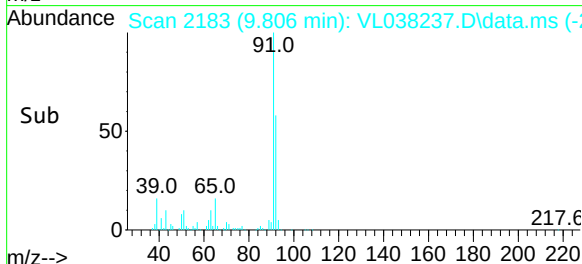
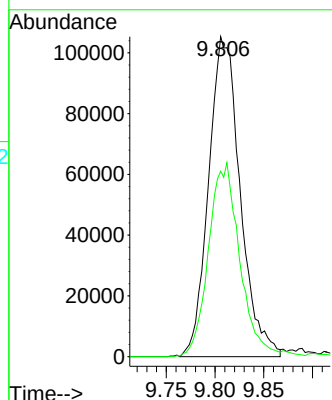
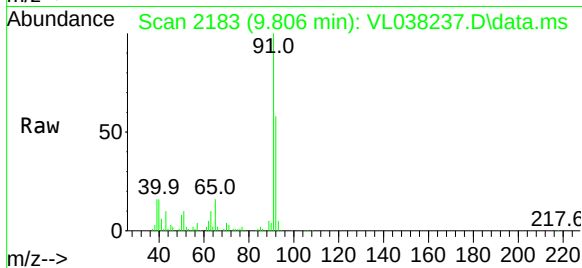
92 61.2 48.9 73.3

Manual Integrations

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Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.089 min Scan# 2893

Delta R.T. 0.010 min

Lab File: VL038237.D

Acq: 29 Dec 2021 17:59

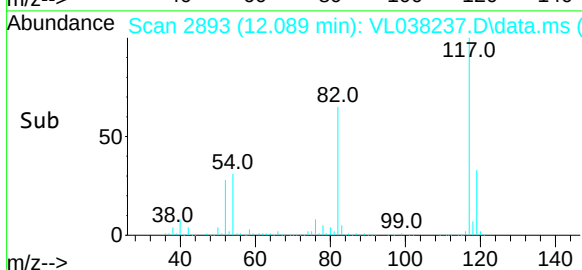
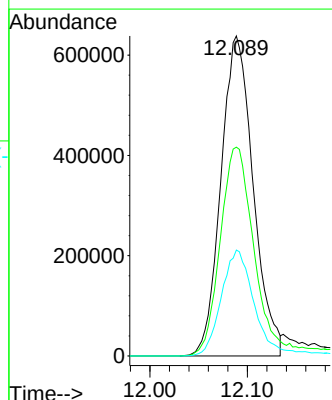
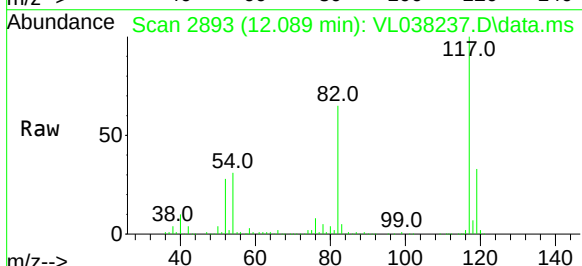
Tgt Ion:117 Resp: 1469146

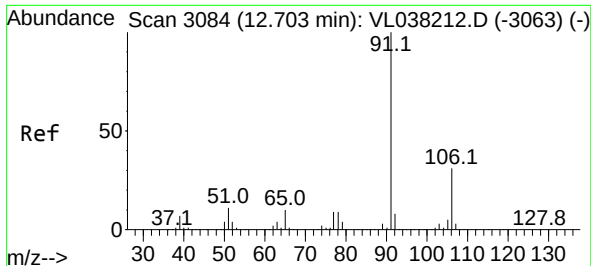
Ion Ratio Lower Upper

117 100

82 74.0 53.3 79.9

119 35.5 25.5 38.3





#58

Ethyl Benzene

Concen: 0.260 ppbv m

RT: 12.706 min Scan# 3084

Delta R.T. 0.003 min

Lab File: VL038237.D

Acq: 29 Dec 2021 17:59

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 59238

Ion Ratio Lower Upper

91 100

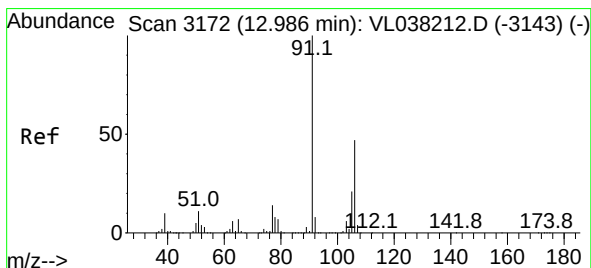
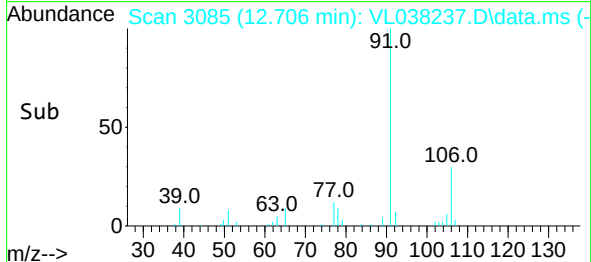
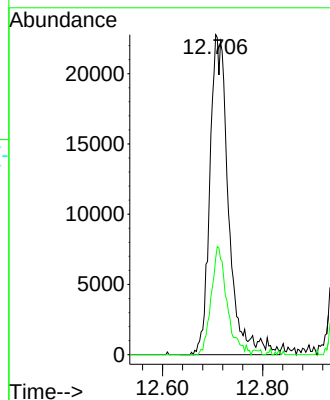
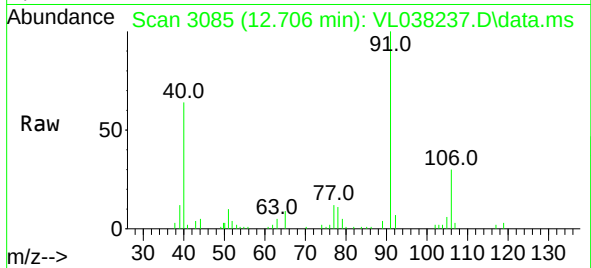
106 30.3 25.0 37.4

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Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022



#59

m/p-Xylene

Concen: 0.802 ppbv

RT: 12.970 min Scan# 3167

Delta R.T. -0.016 min

Lab File: VL038237.D

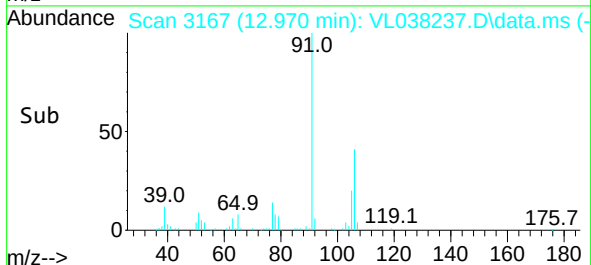
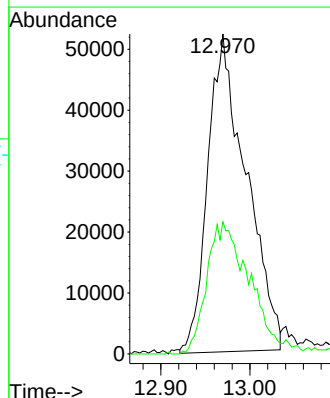
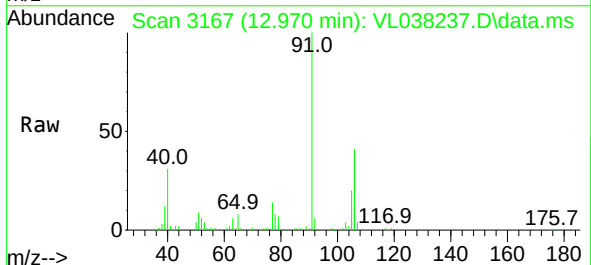
Acq: 29 Dec 2021 17:59

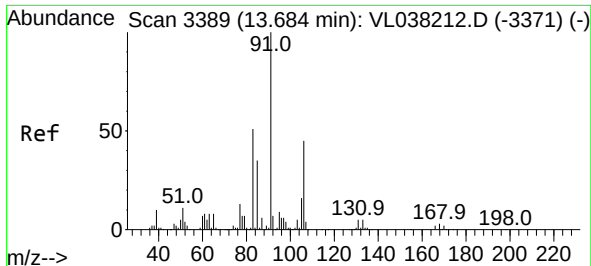
Tgt Ion: 91 Resp: 156344

Ion Ratio Lower Upper

91 100

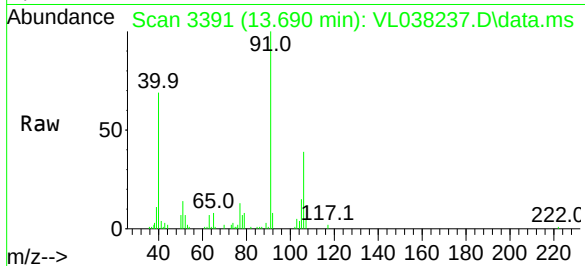
106 47.7 36.9 55.3





#60
o-Xylene
Concen: 0.292 ppbv
RT: 13.690 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59

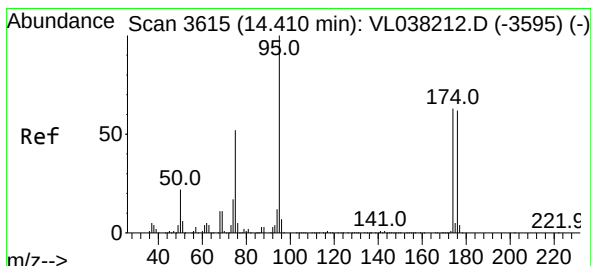
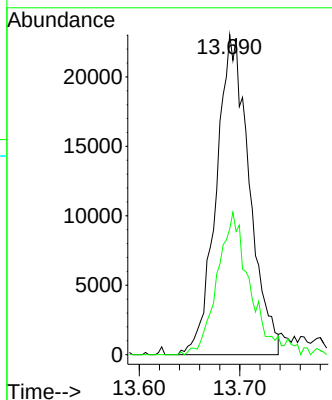
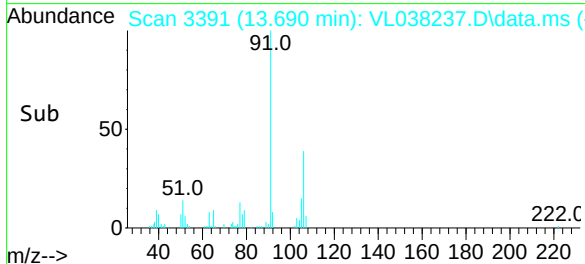
Instrument :
MSVOA_L
ClientSampleId :
SV1



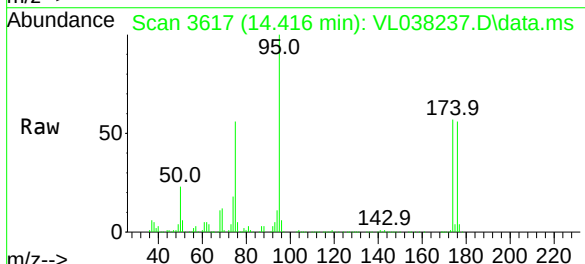
Tgt Ion: 91 Resp: 5282
Ion Ratio Lower Upper
91 100
106 45.1 23.5 70.5

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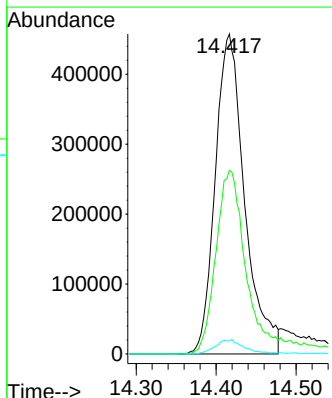
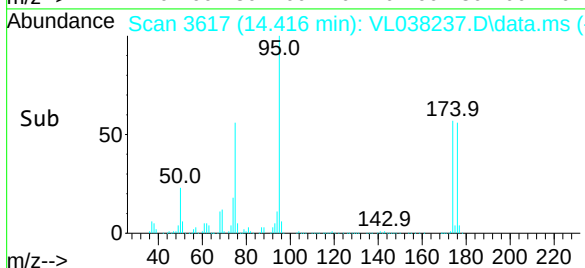
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

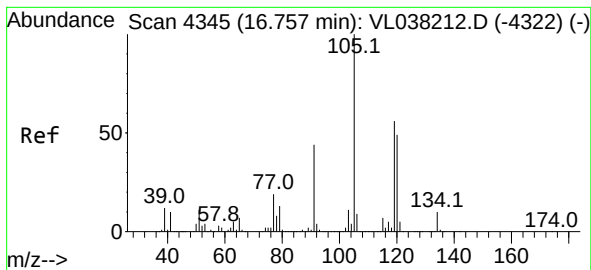


#68
1-Bromo-4-Fluorobenzene
Concen: 10.291 ppbv
RT: 14.416 min Scan# 3617
Delta R.T. 0.006 min
Lab File: VL038237.D
Acq: 29 Dec 2021 17:59



Tgt Ion: 95 Resp: 1165135
Ion Ratio Lower Upper
95 100
174 64.6 54.6 81.8
175 4.7 4.1 6.1





#74

1,2,4-Trimethylbenzene

Concen: 0.250 ppbv

RT: 16.767 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL038237.D

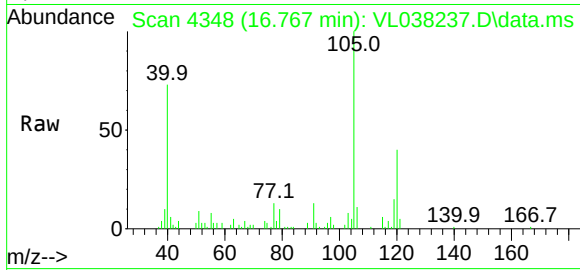
Acq: 29 Dec 2021 17:59

Instrument :

MSVOA_L

ClientSampleId :

SV1



Tgt Ion:105 Resp: 4897

Ion Ratio Lower Upper

105 100

120 40.6 39.4 59.2

91 13.6 35.0 52.4

77 12.9 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022

