

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020924\
 Data File : VL041054.D
 Acq On : 9 Feb 2024 12:23
 Operator : SY/MD
 Sample : P1420-05 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/12/2024
 Supervised By :Mahesh Dadoda 02/12/2024

Quant Time: Feb 12 00:45:17 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Mon Feb 12 00:40:04 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	1255804	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	3437275	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	3206783	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	2536412	10.472	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	26931	0.097	ppbv	95
10) Heptane	7.568	43	72910	0.428	ppbv	100
13) Ethanol	3.240	45	51962m	3.147	ppbv	
15) Acetone	3.465	43	341068	2.124	ppbv #	83
17) tert-Butyl alcohol	3.886	59	13263m	0.101	ppbv	
19) Isopropyl Alcohol	3.578	45	81264	0.874	ppbv #	81
20) Methylene Chloride	3.925	84	210604	3.408	ppbv	94
26) Hexane	5.208	57	619137	4.988	ppbv #	39
29) Chloroform	5.269	83	24630m	0.112	ppbv	
34) 2-Butanone	4.780	43	554228	3.384	ppbv	99
41) Tetrahydrofuran	5.574	42	28472m	0.256	ppbv	
51) 2-Hexanone	9.545	43	463820	2.231	ppbv #	86
52) Tetrachloroethene	10.603	164	119464	1.267	ppbv	91
53) Toluene	9.211	91	440439	1.416	ppbv	99
58) Ethyl Benzene	12.079	91	197241	0.458	ppbv	97
59) m/p-Xylene	12.336	91	610606	1.626	ppbv	93
60) o-Xylene	13.053	91	264405m	0.734	ppbv	
62) Isopropylbenzene	14.021	105	77552	0.146	ppbv	100
64) n-propylbenzene	14.915	120	29395m	0.218	ppbv	
72) 4-Ethyltoluene	15.185	105	88826	0.221	ppbv #	87
73) 1,3,5-Trimethylbenzene	15.339	105	102648m	0.287	ppbv	
74) 1,2,4-Trimethylbenzene	16.095	105	210502	0.520	ppbv #	61

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

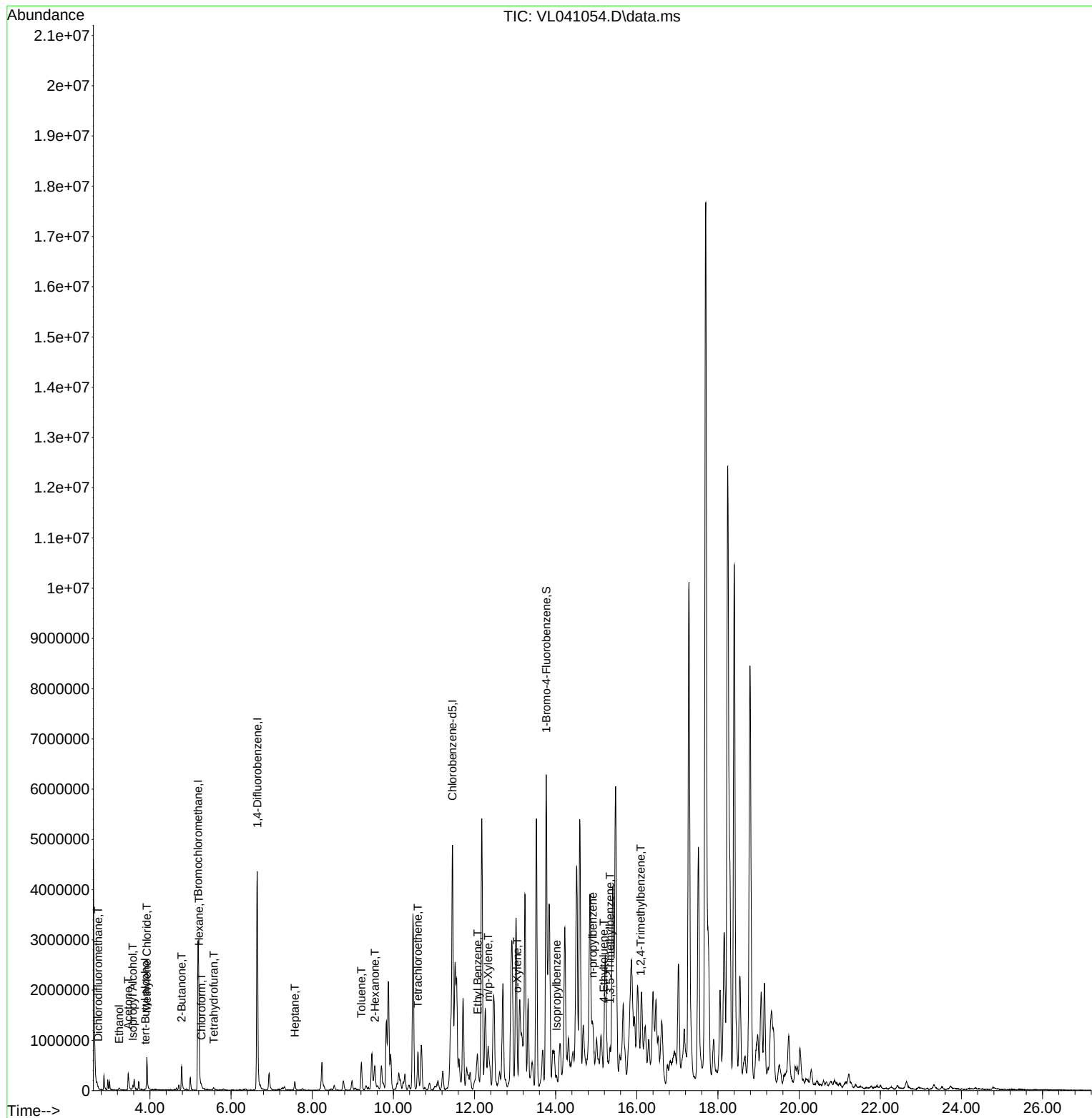
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020924\
Data File : VL041054.D
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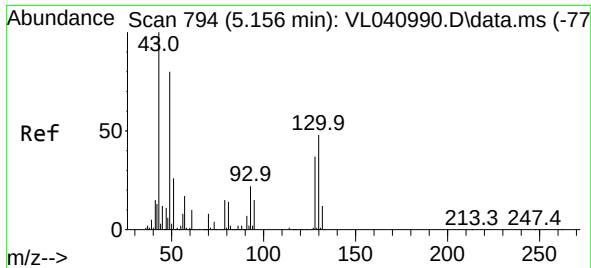
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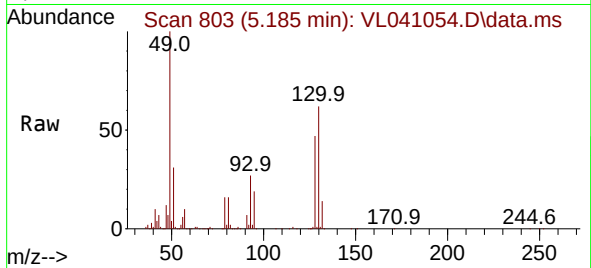
Quant Time: Feb 12 00:45:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Feb 12 00:40:04 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. 0.009 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

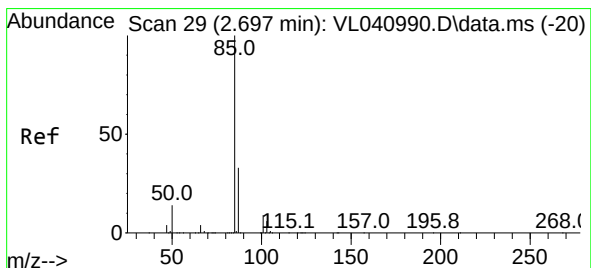
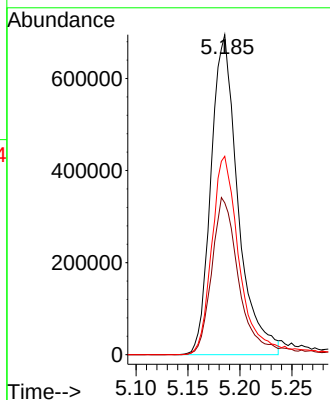
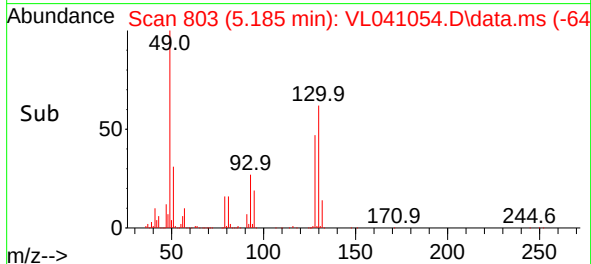
Instrument :
MSVOA_L
ClientSampleId :
SS3



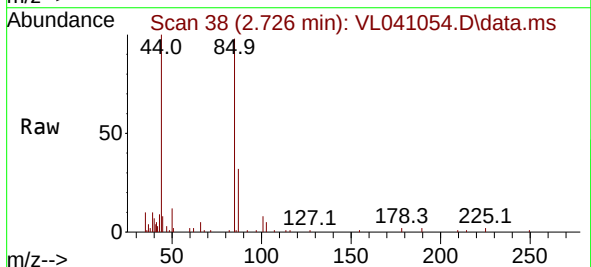
Tgt Ion: 49 Resp: 125580
Ion Ratio Lower Upper
49 100
128 51.9 23.9 71.7
130 66.1 31.1 93.5

Manual Integrations
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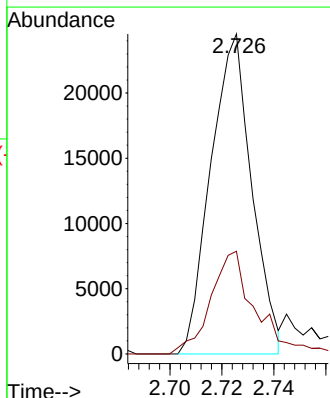
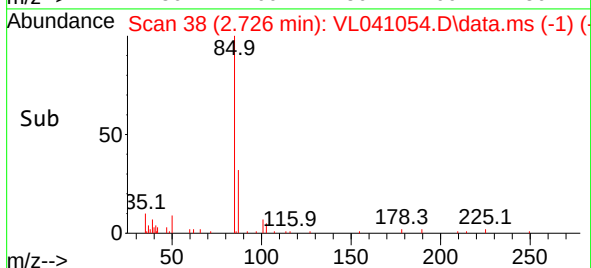
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024

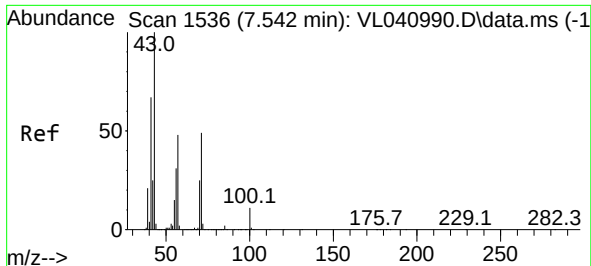


#2
Dichlorodifluoromethane
Concen: 0.097 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.010 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23



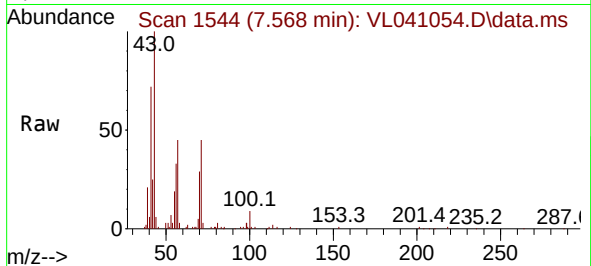
Tgt Ion: 85 Resp: 26931
Ion Ratio Lower Upper
85 100
87 30.2 26.3 39.5





#10
Heptane
Concen: 0.428 ppbv
RT: 7.568 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

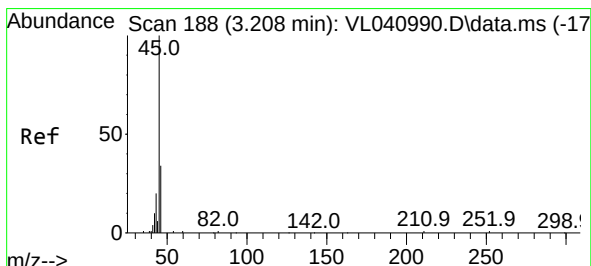
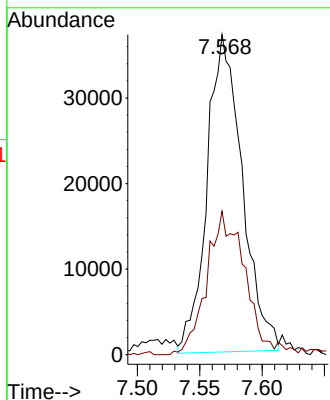
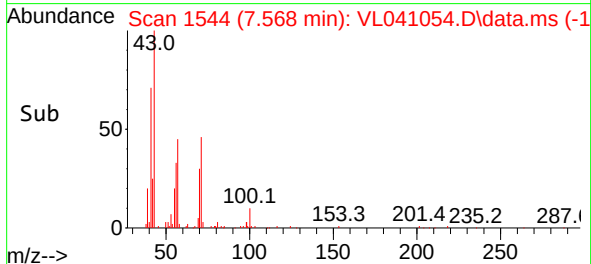
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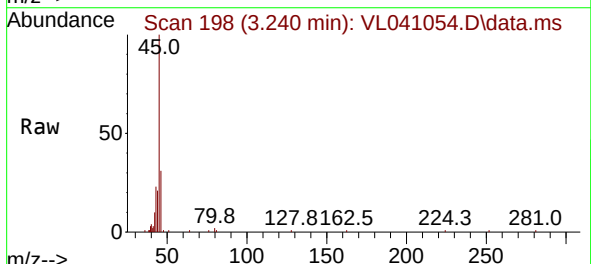
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Ion Ratio Lower Upper
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57 49.1 39.4 59.2

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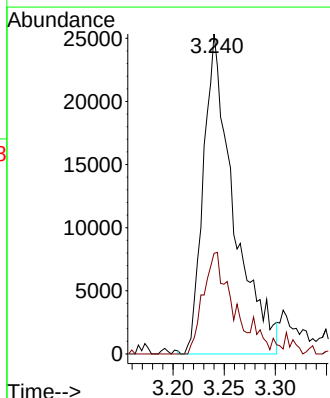
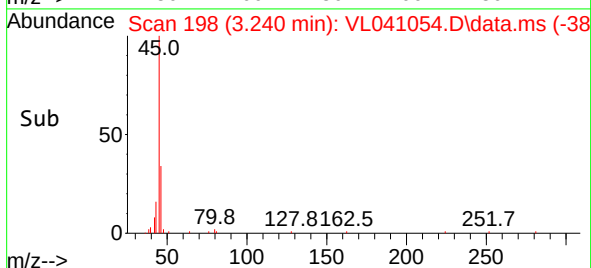
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024

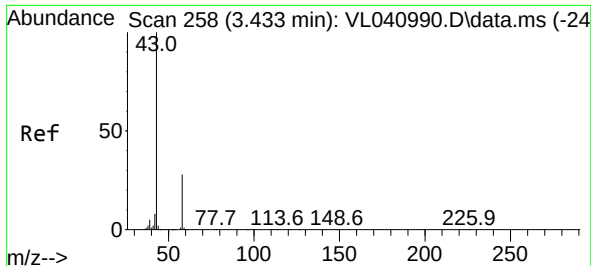


#13
Ethanol
Concen: 3.147 ppbv m
RT: 3.240 min Scan# 198
Delta R.T. 0.016 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23



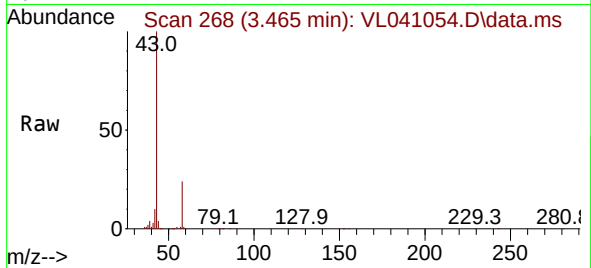
Tgt Ion: 45 Resp: 51962
Ion Ratio Lower Upper
45 100
46 35.8 16.2 64.8





#15
Acetone
Concen: 2.124 ppbv
RT: 3.465 min Scan# 20
Delta R.T. 0.013 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

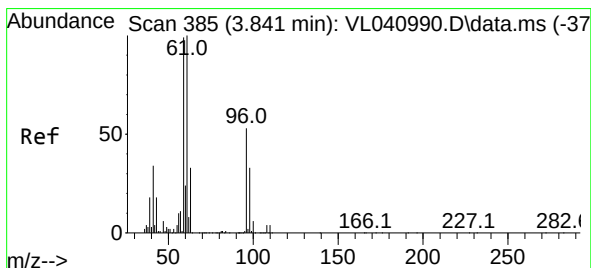
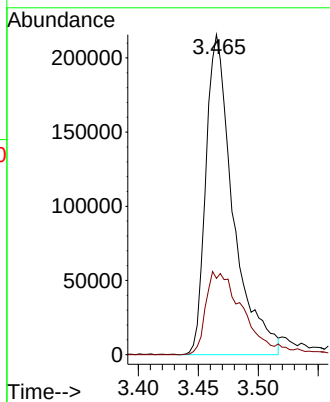
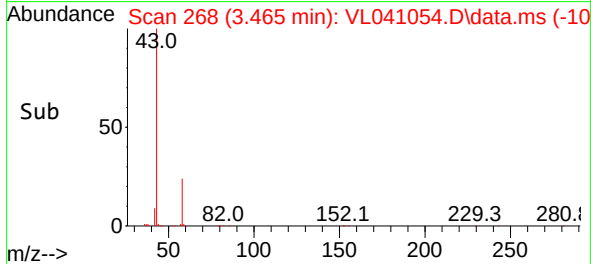
Instrument :
MSVOA_L
ClientSampleId :
SS3



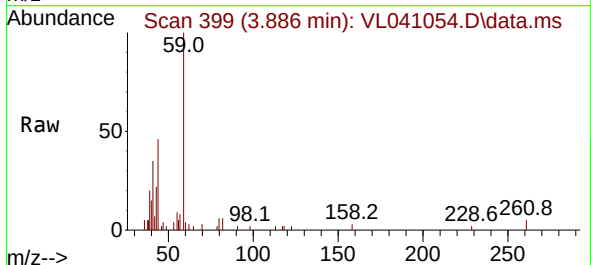
Tgt Ion: 43 Resp: 341068
Ion Ratio Lower Upper
43 100
58 36.6 22.2 33.2

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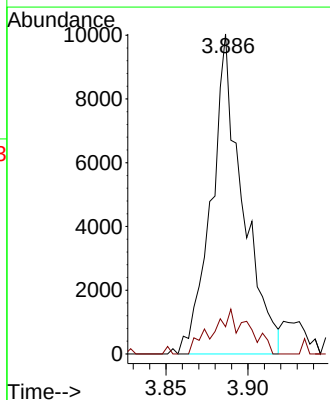
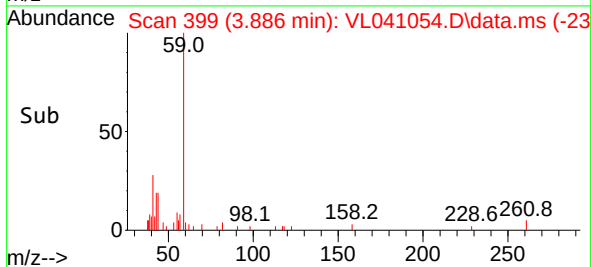
Reviewed By :Semsettin Yesilyurt 02/12/2024
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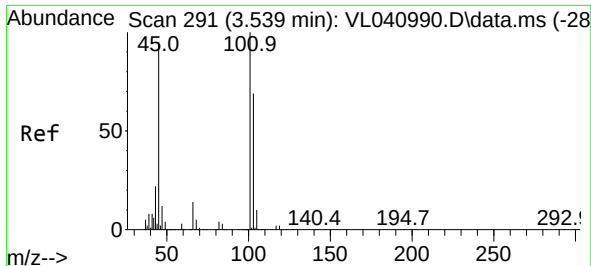


#17
tert-Butyl alcohol
Concen: 0.101 ppbv m
RT: 3.886 min Scan# 399
Delta R.T. 0.022 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23



Tgt Ion: 59 Resp: 13263
Ion Ratio Lower Upper
59 100
57 5.0 8.7 13.1





#19

Isopropyl Alcohol

Concen: 0.874 ppbv

RT: 3.578 min Scan# 303

Delta R.T. 0.016 min

Lab File: VL041054.D

Acq: 9 Feb 2024 12:23

Instrument :

MSVOA_L

ClientSampleId :

SS3

Tgt Ion: 45 Resp: 81264

Ion Ratio Lower Upper

45 100

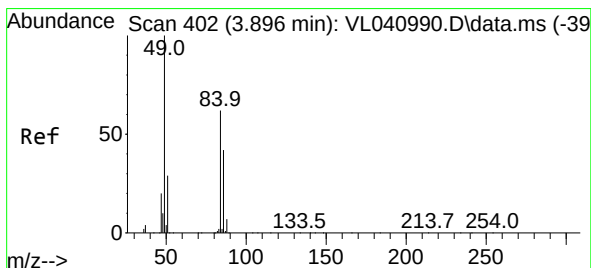
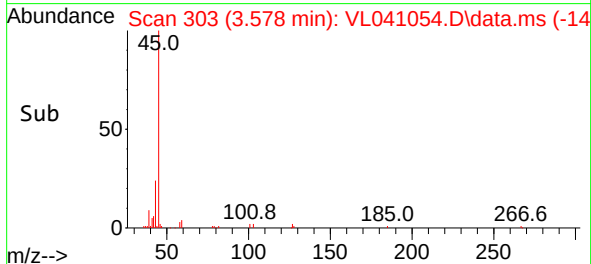
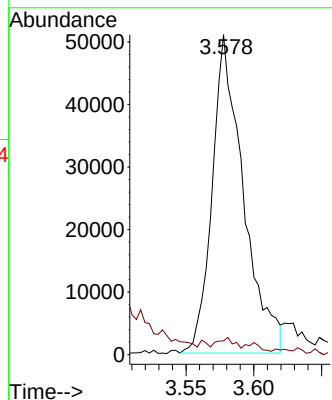
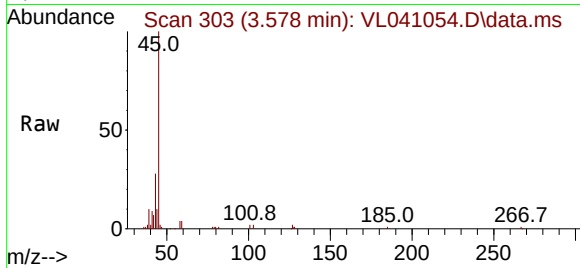
58 9.1 2.2 3.4

Manual Integrations

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Supervised By :Mahesh Dadoda 02/12/2024



#20

Methylene Chloride

Concen: 3.408 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.006 min

Lab File: VL041054.D

Acq: 9 Feb 2024 12:23

Tgt Ion: 84 Resp: 210604

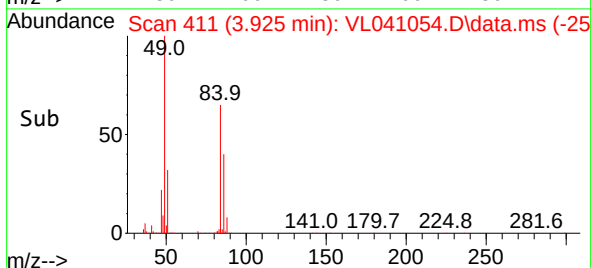
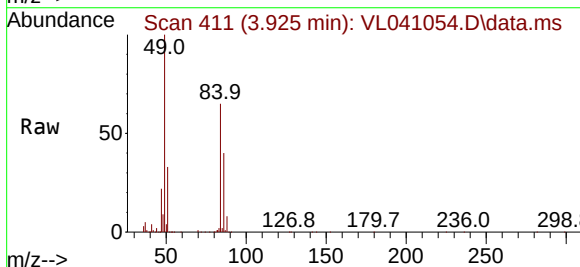
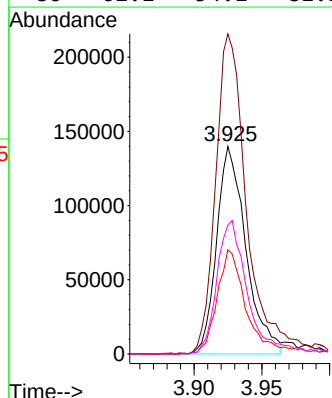
Ion Ratio Lower Upper

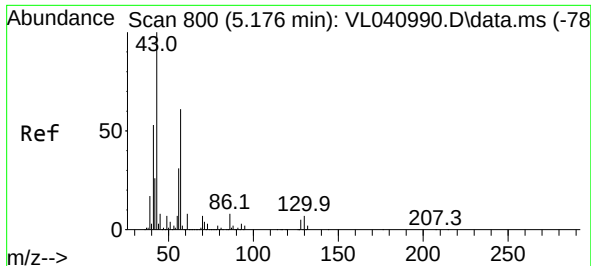
84 100

49 153.6 128.1 192.1

51 50.1 36.5 54.7

86 62.1 54.1 81.1





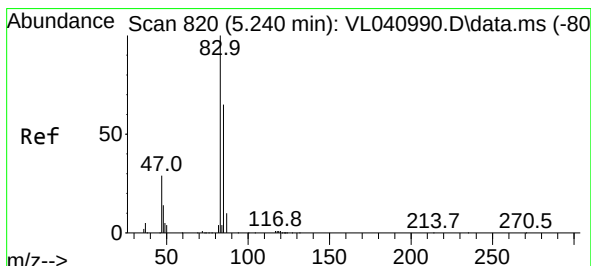
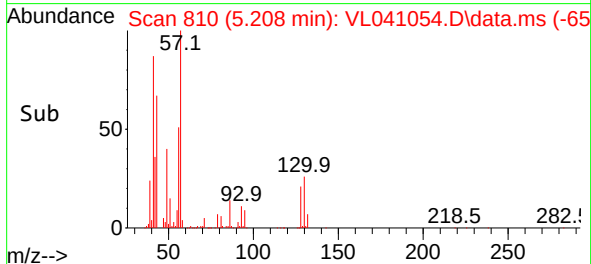
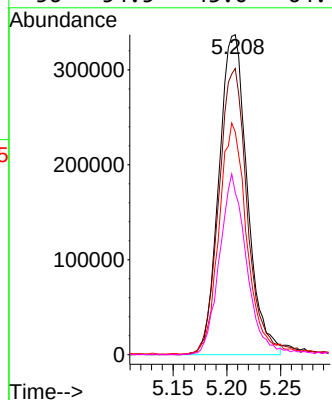
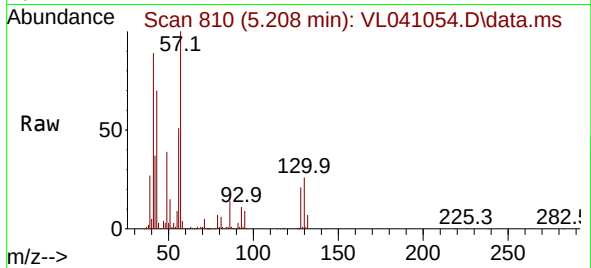
#26
Hexane
Concen: 4.988 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.010 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

Instrument :
MSVOA_L
ClientSampleId :
SS3

Tgt Ion: 57 Resp: 61913
Ion Ratio Lower Upper
57 100
41 91.7 74.4 111.6
43 71.6 190.6 285.8
56 54.5 43.0 64.4

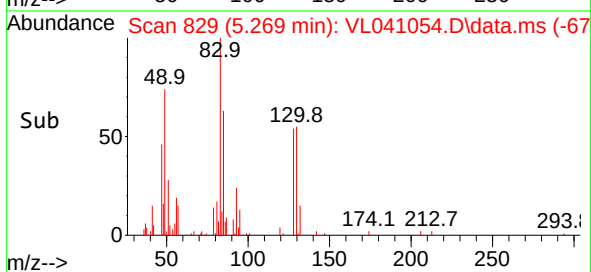
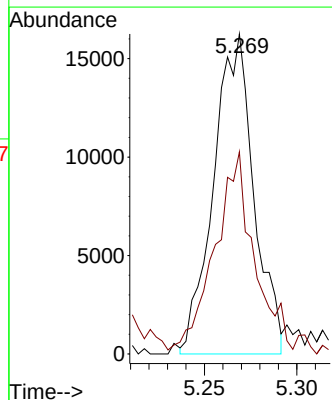
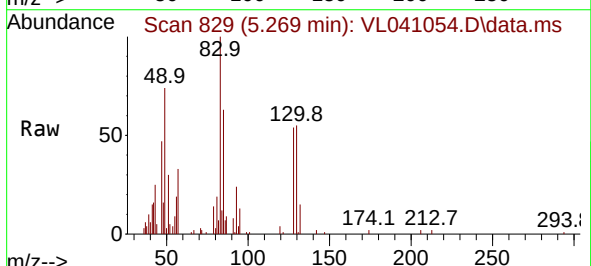
Manual Integrations
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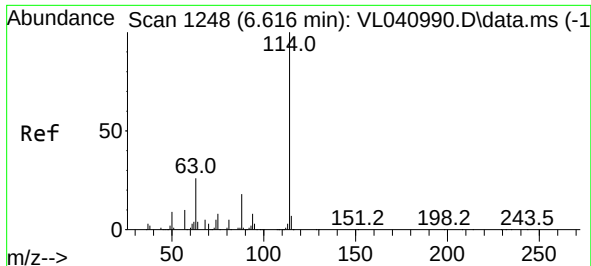
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#29
Chloroform
Concen: 0.112 ppbv m
RT: 5.269 min Scan# 829
Delta R.T. 0.010 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

Tgt Ion: 83 Resp: 24630
Ion Ratio Lower Upper
83 100
85 63.1 51.6 77.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 114

Delta R.T. 0.003 min

Lab File: VL041054.D

Acq: 9 Feb 2024 12:23

Instrument :

MSVOA_L

ClientSampleId :

SS3

Tgt Ion:114 Resp: 343727

Ion Ratio Lower Upper

114 100

63 24.4 20.8 31.2

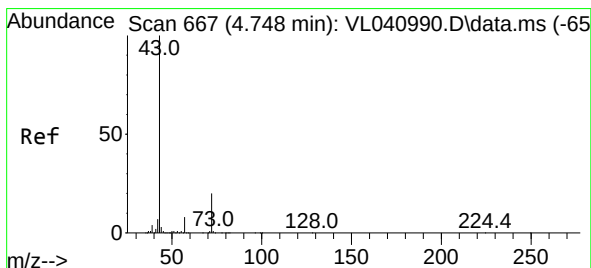
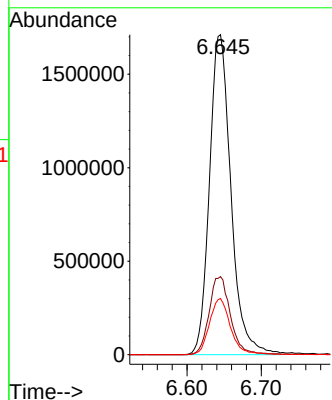
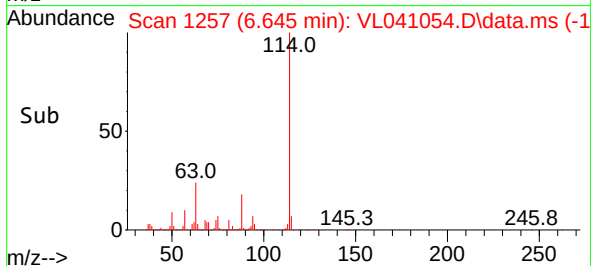
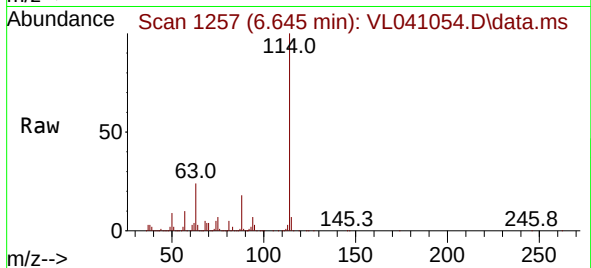
88 17.2 14.3 21.5

Manual Integrations

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#34

2-Butanone

Concen: 3.384 ppbv

RT: 4.780 min Scan# 677

Delta R.T. 0.010 min

Lab File: VL041054.D

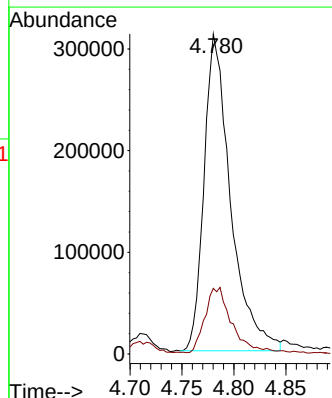
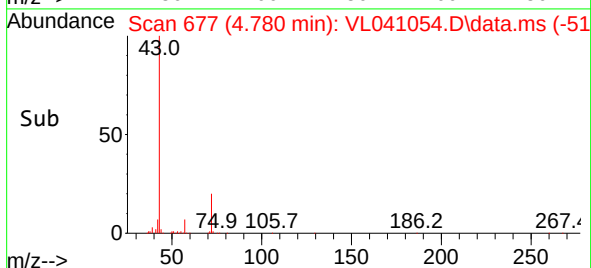
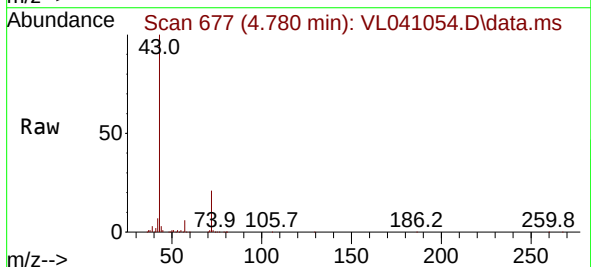
Acq: 9 Feb 2024 12:23

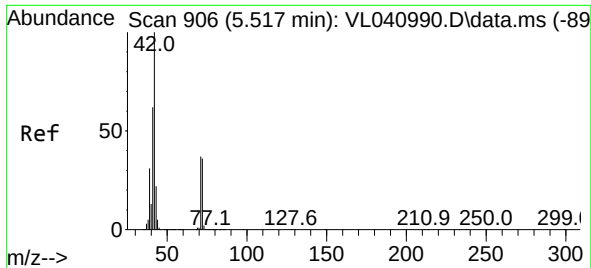
Tgt Ion: 43 Resp: 554228

Ion Ratio Lower Upper

43 100

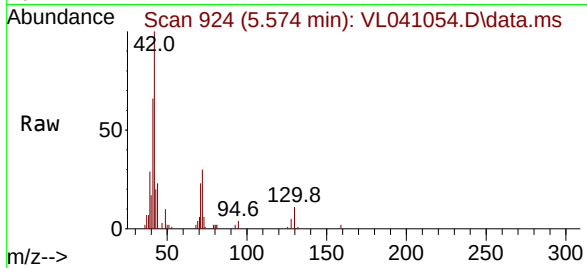
72 22.2 17.5 26.3





#41
Tetrahydrofuran
Concen: 0.256 ppbv m
RT: 5.574 min Scan# 91
Delta R.T. 0.035 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

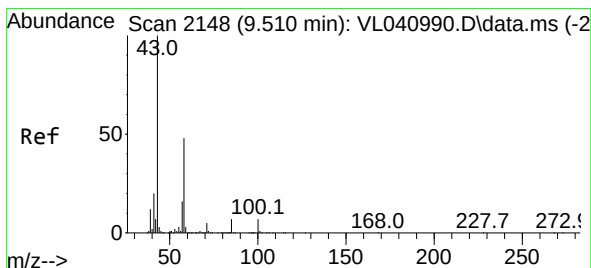
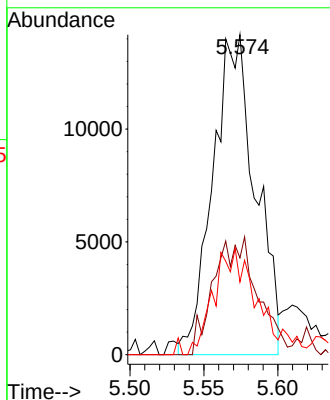
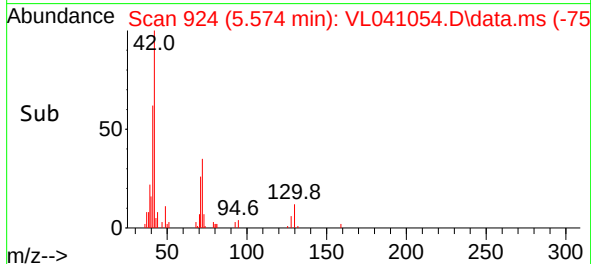
Instrument :
MSVOA_L
ClientSampleId :
SS3



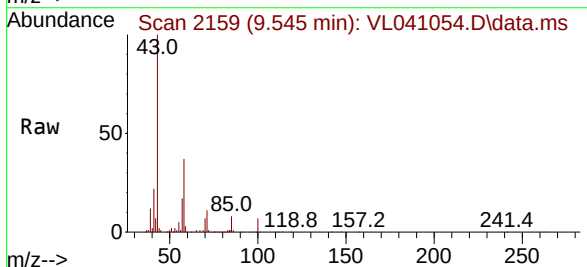
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Ion Ratio Lower Upper
42 100
72 40.4 30.0 45.0
71 35.0 29.5 44.3

Manual Integrations
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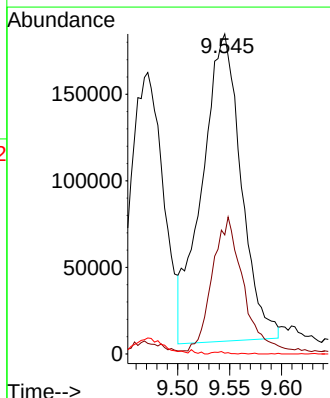
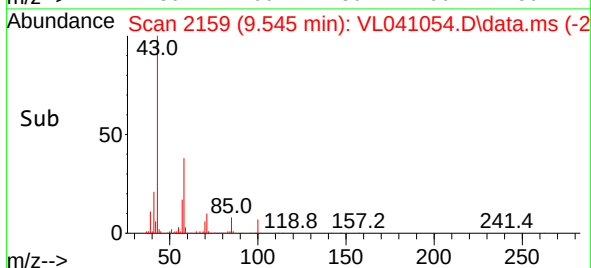
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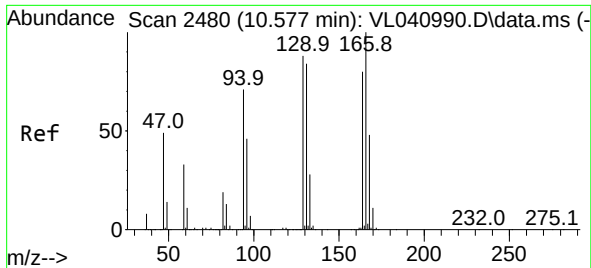


#51
2-Hexanone
Concen: 2.231 ppbv
RT: 9.545 min Scan# 2159
Delta R.T. 0.010 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23



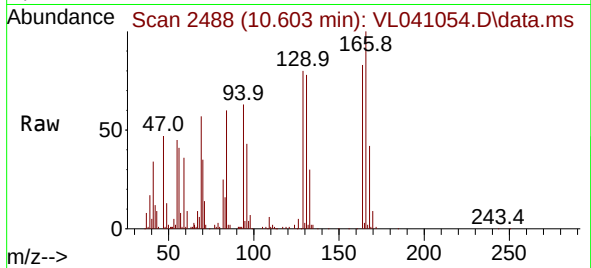
Tgt Ion: 43 Resp: 463820
Ion Ratio Lower Upper
43 100
58 36.7 36.8 55.2#
98 0.0 0.3 0.5#





#52
Tetrachloroethene
Concen: 1.267 ppbv
RT: 10.603 min Scan# 2488
Delta R.T. -0.000 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

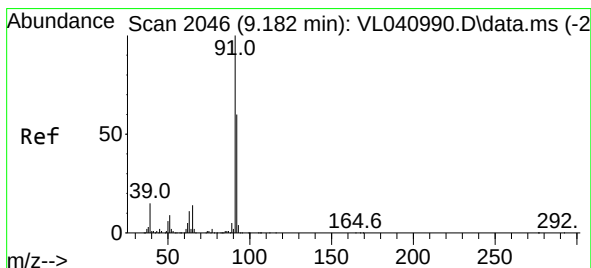
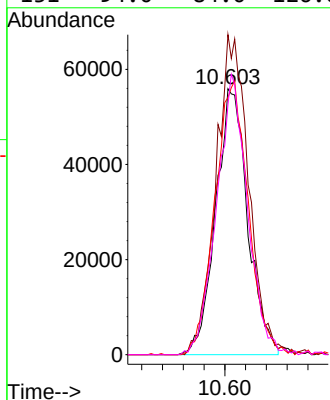
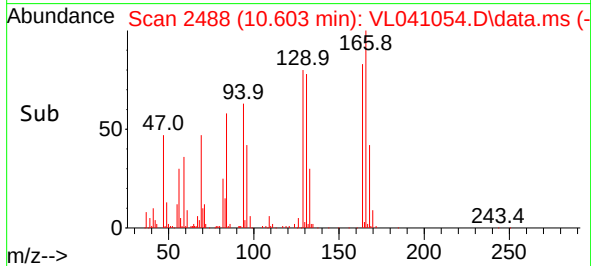
Instrument :
MSVOA_L
ClientSampleId :
SS3



Tgt Ion:164 Resp: 119464
Ion Ratio Lower Upper
164 100
166 120.3 100.2 150.2
129 96.7 87.9 131.9
131 94.0 84.0 126.0

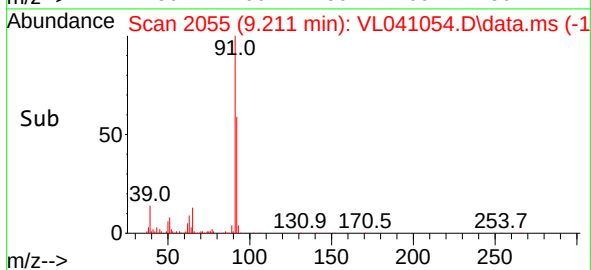
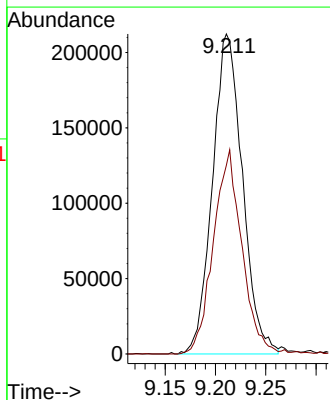
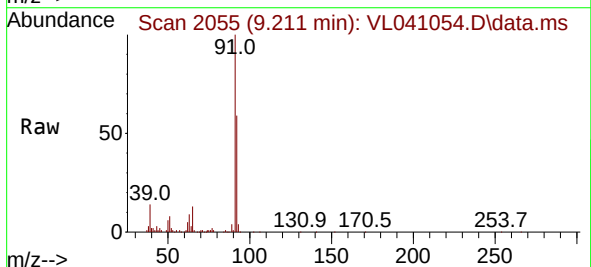
Manual Integrations
APPROVED

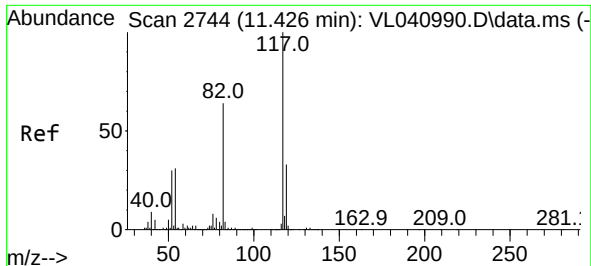
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#53
Toluene
Concen: 1.416 ppbv
RT: 9.211 min Scan# 2055
Delta R.T. 0.003 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

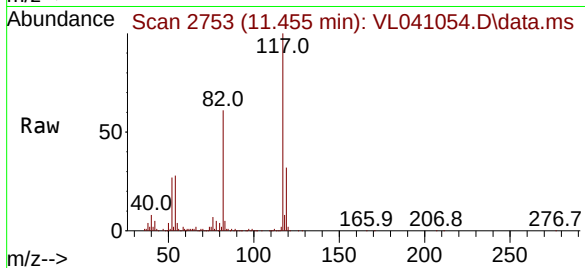
Tgt Ion: 91 Resp: 440439
Ion Ratio Lower Upper
91 100
92 61.4 48.6 72.8





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

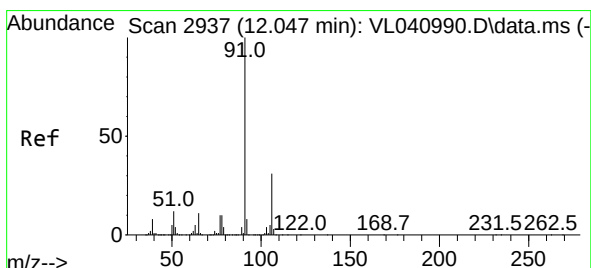
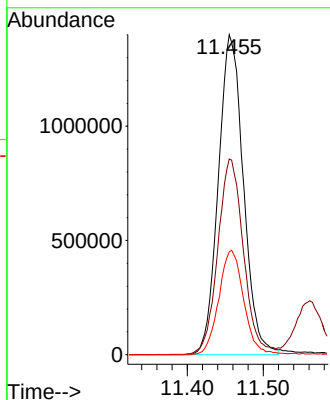
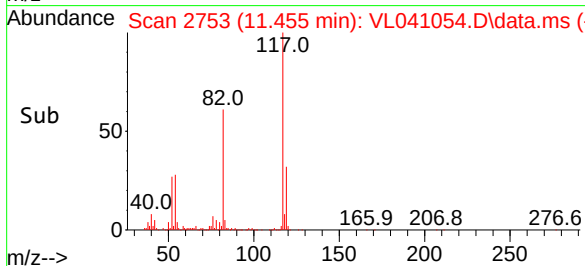
Instrument :
MSVOA_L
ClientSampleId :
SS3



Tgt Ion:117 Resp: 320678
Ion Ratio Lower Upper
117 100
82 62.8 51.7 77.5
119 32.6 23.8 35.6

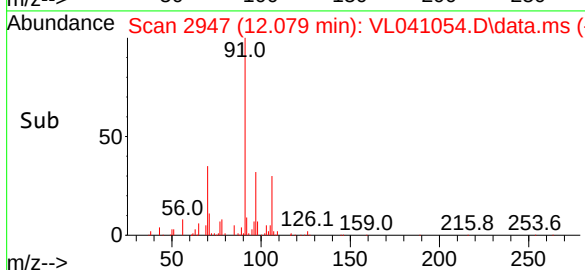
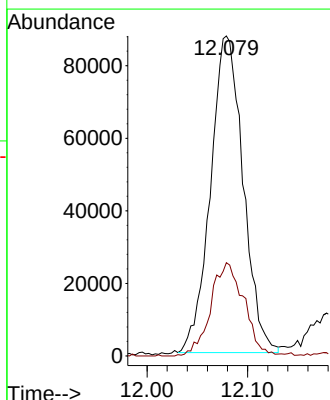
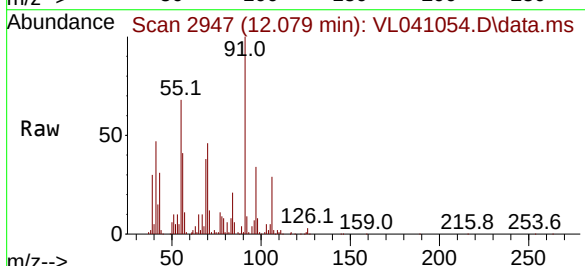
Manual Integrations
APPROVED

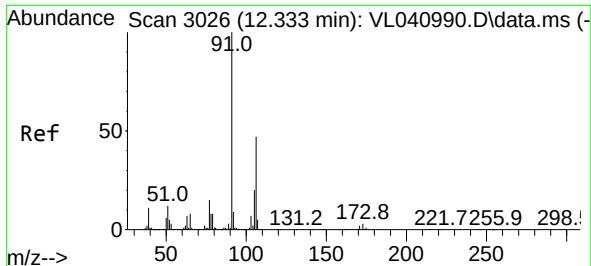
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#58
Ethyl Benzene
Concen: 0.458 ppbv
RT: 12.079 min Scan# 2947
Delta R.T. 0.003 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

Tgt Ion: 91 Resp: 197241
Ion Ratio Lower Upper
91 100
106 29.2 24.8 37.2





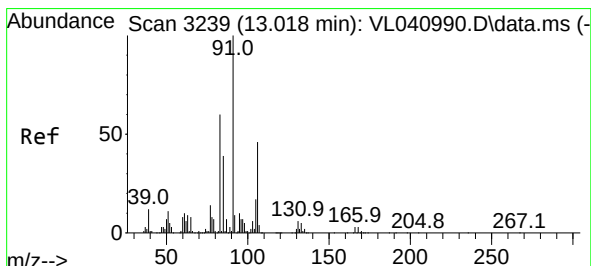
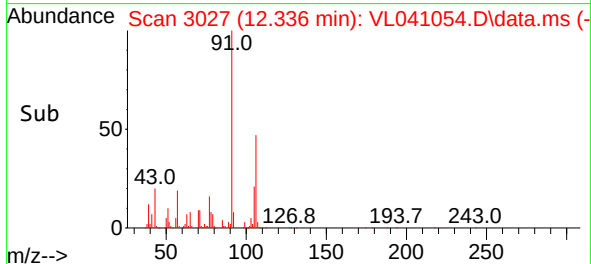
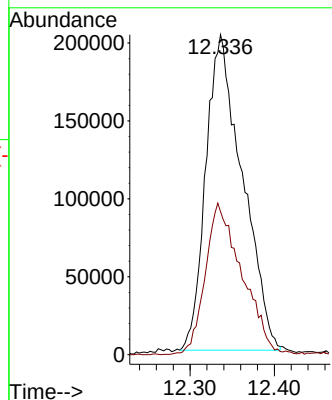
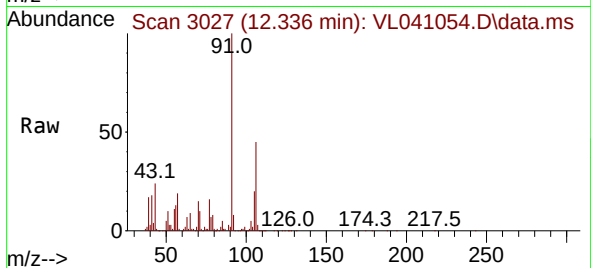
#59
m/p-Xylene
Concen: 1.626 ppbv
RT: 12.336 min Scan# 3026
Delta R.T. -0.019 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

Instrument :
MSVOA_L
ClientSampleId :
SS3

Tgt Ion: 91 Resp: 610600
Ion Ratio Lower Upper
91 100
106 48.4 34.9 52.3

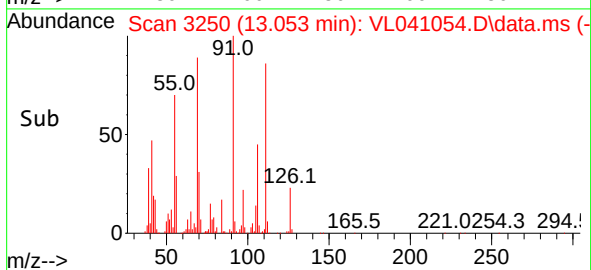
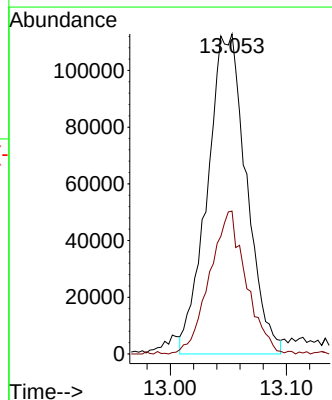
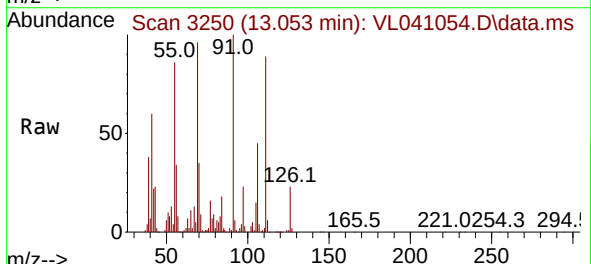
Manual Integrations
APPROVED

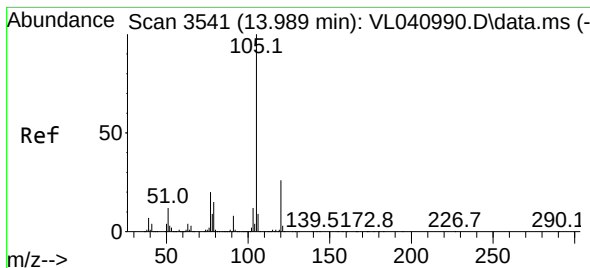
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024



#60
o-Xylene
Concen: 0.734 ppbv m
RT: 13.053 min Scan# 3250
Delta R.T. 0.013 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

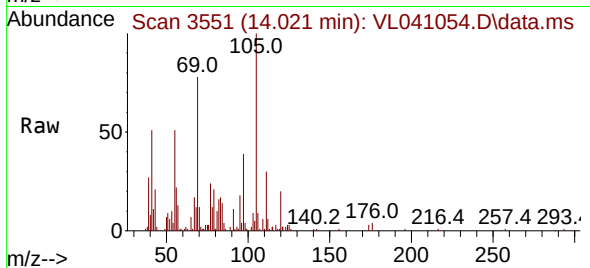
Tgt Ion: 91 Resp: 264405
Ion Ratio Lower Upper
91 100
106 0.0 22.6 67.7#





#62
Isopropylbenzene
Concen: 0.146 ppbv
RT: 14.021 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

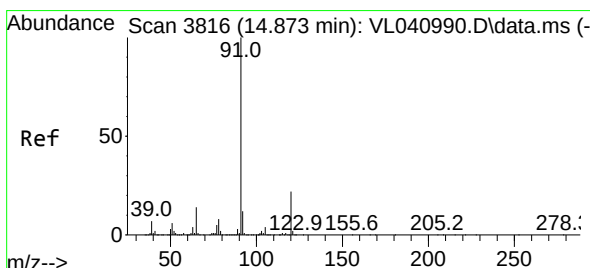
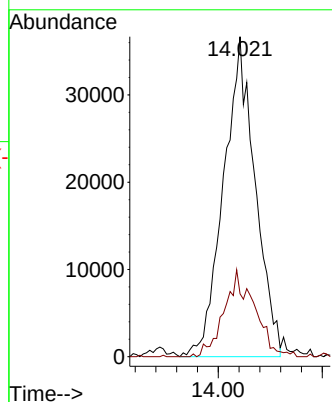
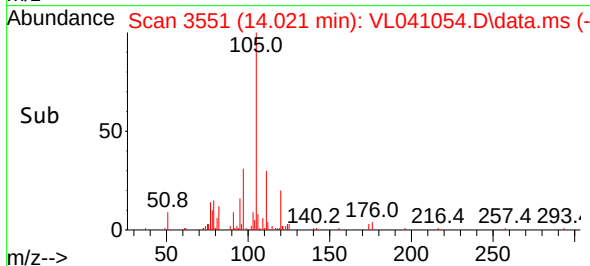
Instrument :
MSVOA_L
ClientSampleId :
SS3



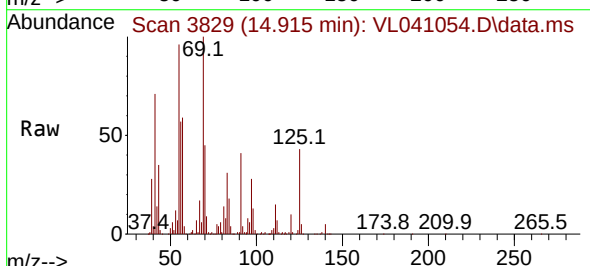
Tgt Ion:105 Resp: 77552
Ion Ratio Lower Upper
105 100
120 26.0 20.9 31.3

Manual Integrations
APPROVED

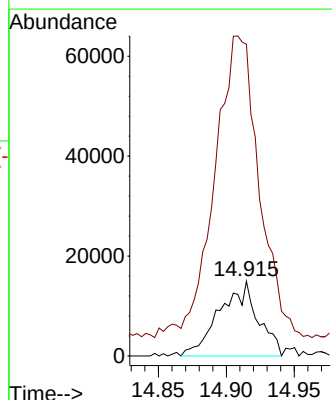
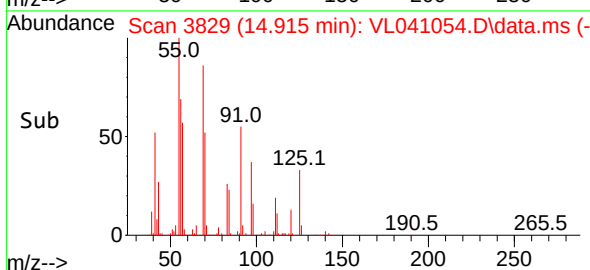
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024

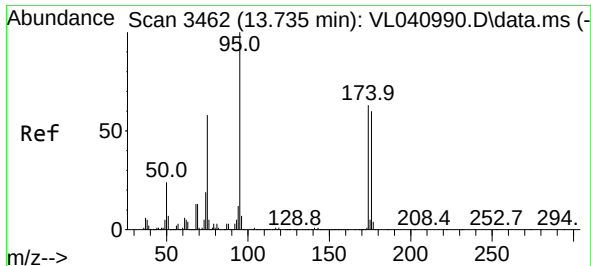


#64
n-propylbenzene
Concen: 0.218 ppbv m
RT: 14.915 min Scan# 3829
Delta R.T. 0.010 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23



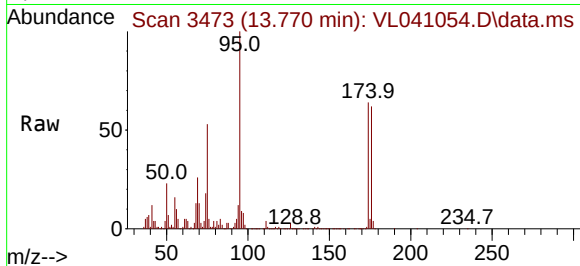
Tgt Ion:120 Resp: 29395
Ion Ratio Lower Upper
120 100
91 630.7 390.6 585.8#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.472 ppbv
RT: 13.770 min Scan# 3462
Delta R.T. 0.010 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23

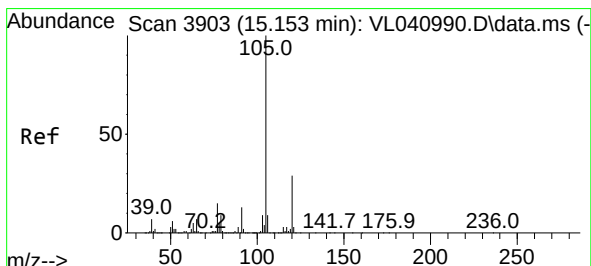
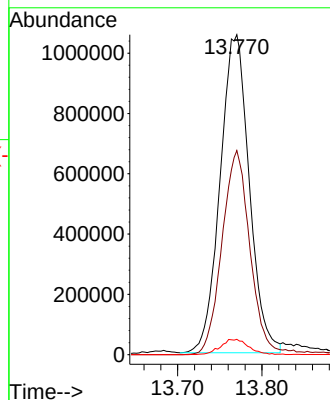
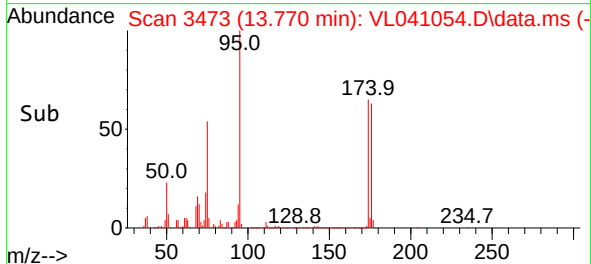
Instrument :
MSVOA_L
ClientSampleId :
SS3



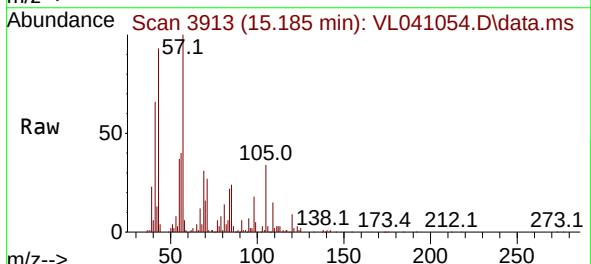
Tgt Ion: 95 Resp: 253641
Ion Ratio Lower Upper
95 100
174 63.3 49.1 73.7
175 4.8 3.7 5.5

Manual Integrations
APPROVED

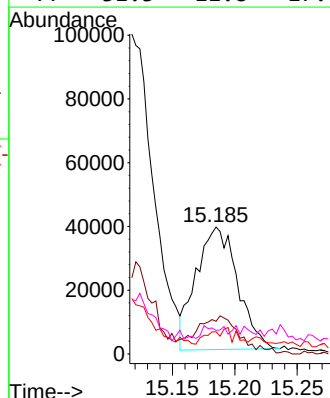
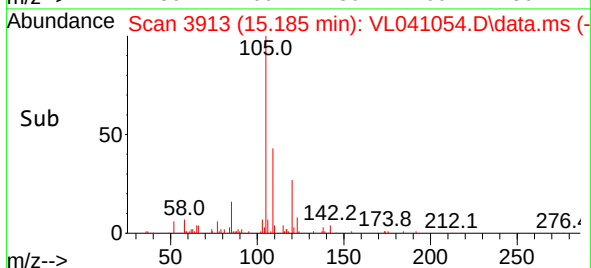
Reviewed By :Semsettin Yesilyurt 02/12/2024
Supervised By :Mahesh Dadoda 02/12/2024

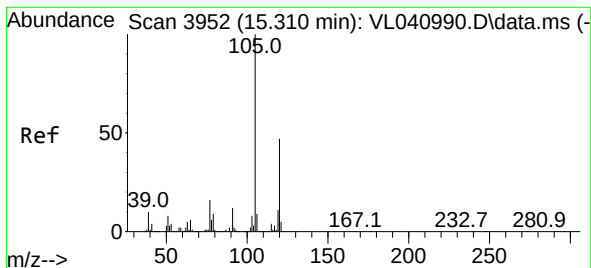


#72
4-Ethyltoluene
Concen: 0.221 ppbv
RT: 15.185 min Scan# 3913
Delta R.T. 0.006 min
Lab File: VL041054.D
Acq: 9 Feb 2024 12:23



Tgt Ion:105 Resp: 88826
Ion Ratio Lower Upper
105 100
120 32.6 24.3 36.5
91 15.4 11.0 16.4
77 31.3 11.8 17.8#





#73

1,3,5-Trimethylbenzene

Concen: 0.287 ppbv m

RT: 15.339 min Scan# 3952

Delta R.T. 0.003 min

Lab File: VL041054.D

Acq: 9 Feb 2024 12:23

Instrument :

MSVOA_L

ClientSampleId :

SS3

Tgt Ion:105 Resp: 10264

Ion Ratio Lower Upper

105 100

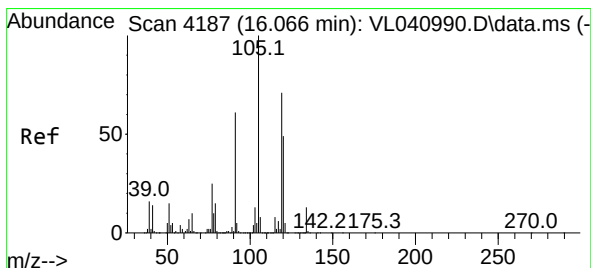
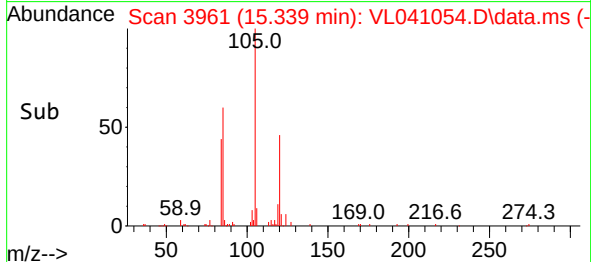
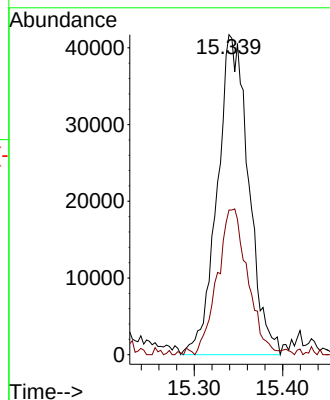
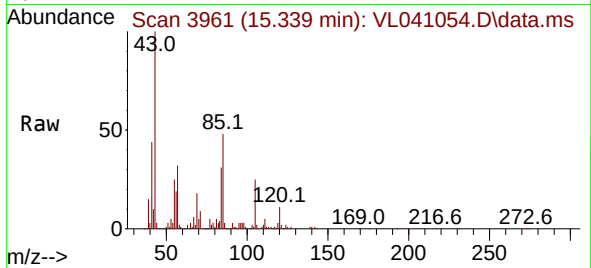
120 45.2 37.2 55.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/12/2024

Supervised By :Mahesh Dadoda 02/12/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.520 ppbv

RT: 16.095 min Scan# 4196

Delta R.T. -0.000 min

Lab File: VL041054.D

Acq: 9 Feb 2024 12:23

Tgt Ion:105 Resp: 210502

Ion Ratio Lower Upper

105 100

120 36.8 39.3 58.9#

91 11.3 48.7 73.1#

77 17.2 19.8 29.8#

