

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071423\
 Data File : VL040533.D
 Acq On : 14 Jul 2023 18:57
 Operator : SY/MD
 Sample : 03636-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/17/2023
 Supervised By : Mahesh Dadoda 07/17/2023

Quant Time: Jul 16 23:32:42 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 11 2023

QLast Update : Mon Jul 10 16:32:00 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.192	49	960105	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.655	114	2526246	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2208928	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1682533	9.624	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.732	85	78784m	0.410	ppbv	
3) Chlorodifluoromethane	2.674	51	55673m	0.366	ppbv	
4) Chloromethane	2.816	50	39376	0.653	ppbv	99
9) Propene	2.703	41	63902	1.227	ppbv	84
10) Heptane	7.584	43	29729	0.258	ppbv	90
11) Trichlorofluoromethane	3.561	101	37032	0.239	ppbv	92
13) Ethanol	3.253	45	81362m	7.178	ppbv	
15) Acetone	3.471	43	1063531	9.623	ppbv	100
19) Isopropyl Alcohol	3.590	45	87713	1.383	ppbv #	96
20) Methylene Chloride	3.934	84	537071	11.425	ppbv	94
26) Hexane	5.214	57	408102	4.175	ppbv #	43
30) Cyclohexane	6.606	84	10859m	0.134	ppbv	
34) 2-Butanone	4.799	43	98330	0.788	ppbv	96
35) Carbon Tetrachloride	6.497	117	10232m	0.067	ppbv	
36) Benzene	6.372	78	70898	0.349	ppbv	96
44) 2,2,4-Trimethylpentane	7.333	57	103322m	0.316	ppbv	
52) Tetrachloroethene	10.606	164	6412m	0.097	ppbv	
53) Toluene	9.224	91	242134	1.097	ppbv	97
58) Ethyl Benzene	12.092	91	71291m	0.257	ppbv	
59) m/p-Xylene	12.352	91	289709m	1.171	ppbv	
60) o-Xylene	13.060	91	152131	0.645	ppbv	96
64) n-propylbenzene	14.918	120	45732	0.500	ppbv	88
70) n-Butylbenzene	17.892	91	64703m	0.153	ppbv	
72) 4-Ethyltoluene	15.194	105	315112	1.141	ppbv	99
73) 1,3,5-Trimethylbenzene	15.355	105	301980	1.240	ppbv	98
74) 1,2,4-Trimethylbenzene	16.108	105	1339686	4.718	ppbv #	65
76) 1,4-Dichlorobenzene	16.474	146	27896m	0.165	ppbv	
79) Naphthalene	21.394	128	79917m	0.333	ppbv	

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

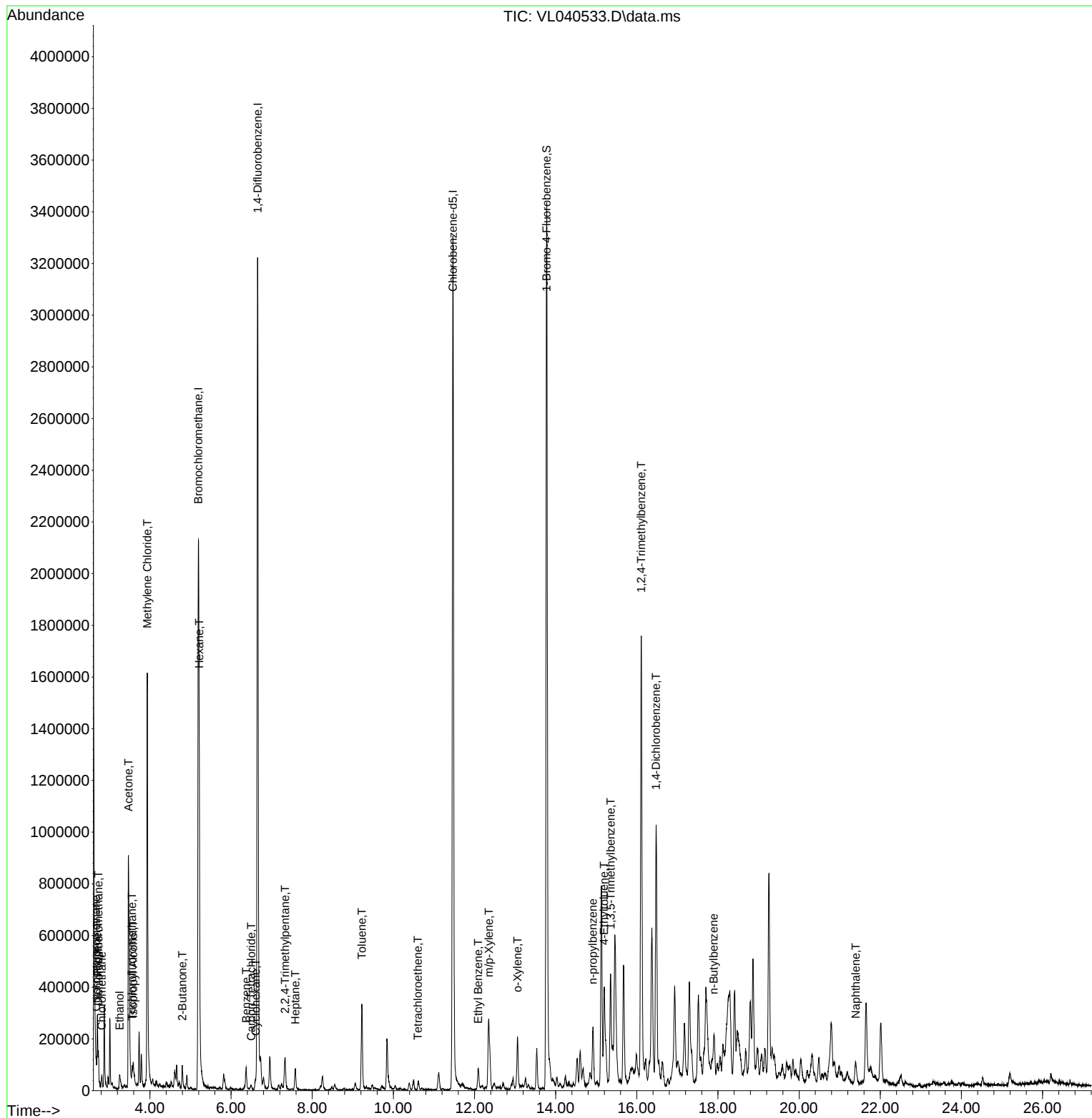
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071423\
Data File : VL040533.D
Acq On : 14 Jul 2023 18:57
Operator : SY/MD
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Misc : 400mL/MSVOA_L
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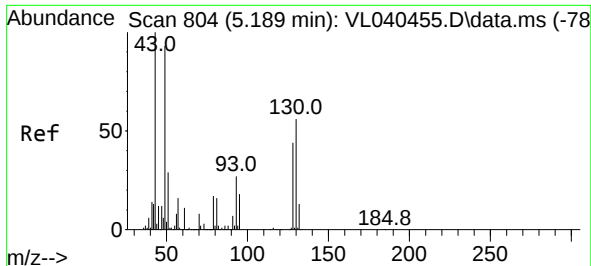
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Jul 16 23:32:42 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Jul 10 16:32:00 2023
Response via : Initial Calibration

Manual Integrations
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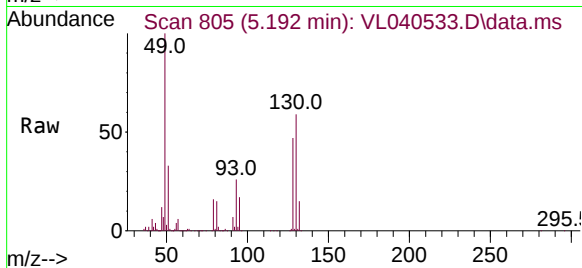
Reviewed By : Semsettin Yesilyurt 07/17/2023
Supervised By : Mahesh Dadoda 07/17/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

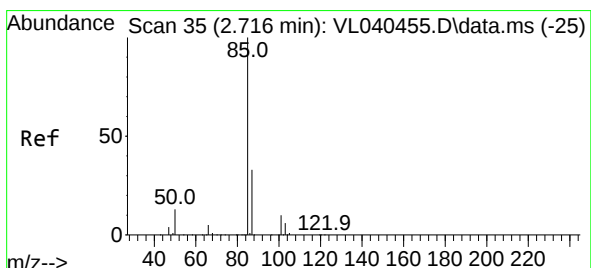
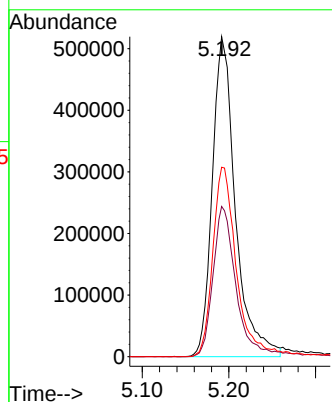
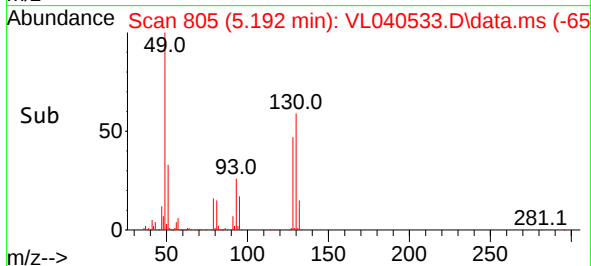
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 96010
Ion Ratio Lower Upper
49 100
128 48.1 25.1 75.4
130 61.9 31.6 94.7

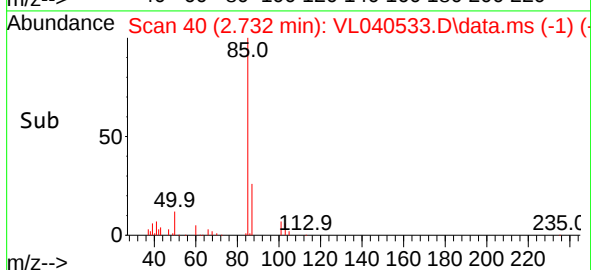
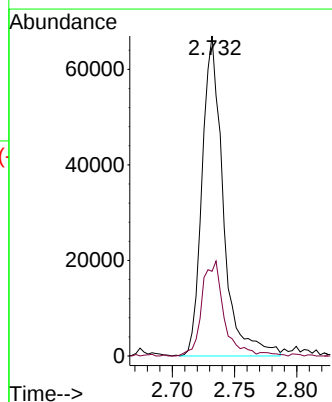
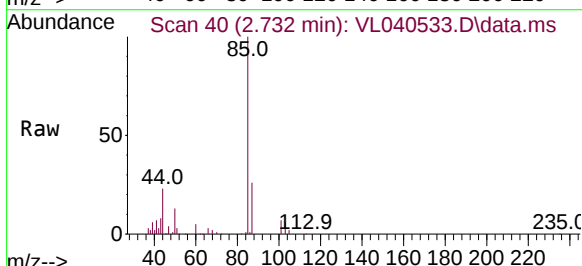
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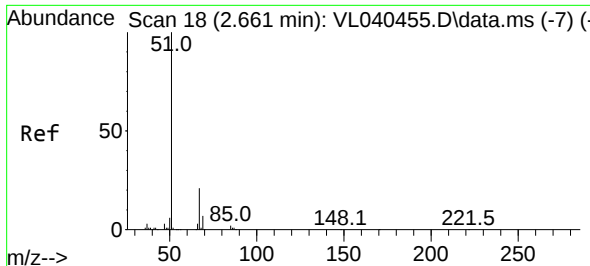
Reviewed By :Semsettin Yesilyurt 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023



#2
Dichlorodifluoromethane
Concen: 0.410 ppbv m
RT: 2.732 min Scan# 40
Delta R.T. -0.007 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

Tgt Ion: 85 Resp: 78784
Ion Ratio Lower Upper
85 100
87 26.5 26.8 40.2#





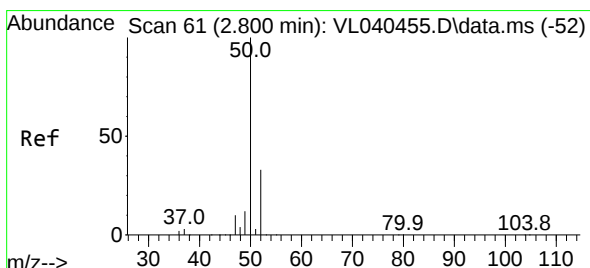
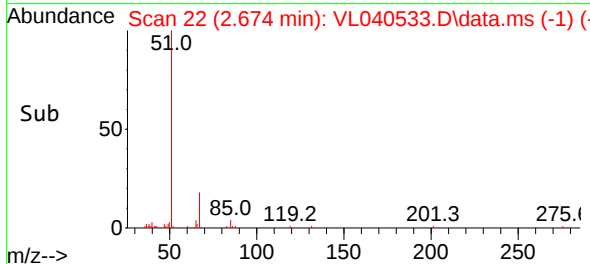
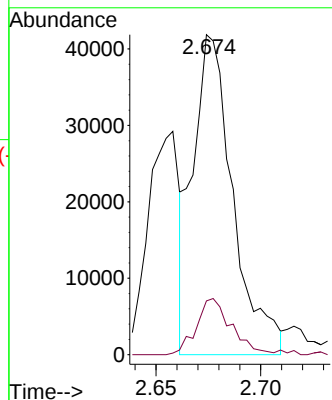
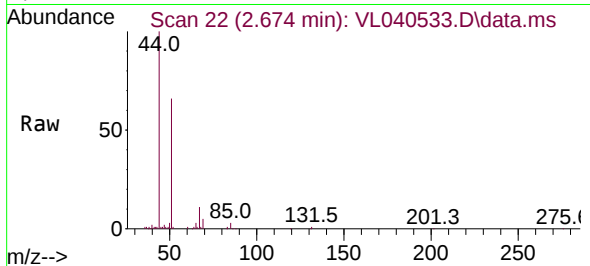
#3
Chlorodifluoromethane
Concen: 0.366 ppbv m
RT: 2.674 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 5567
Ion Ratio Lower Upper
51 100
67 15.8 14.6 21.8

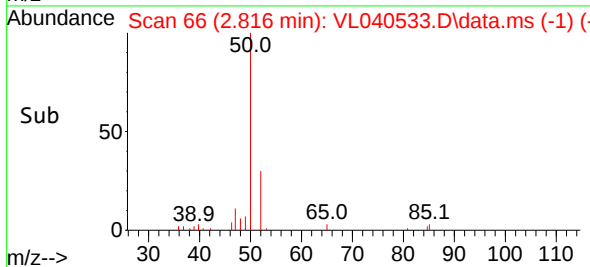
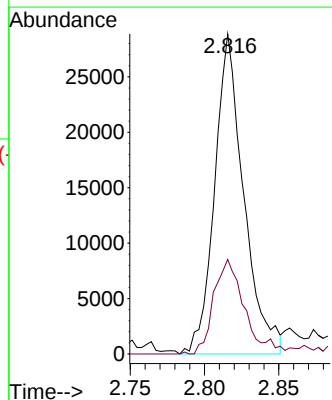
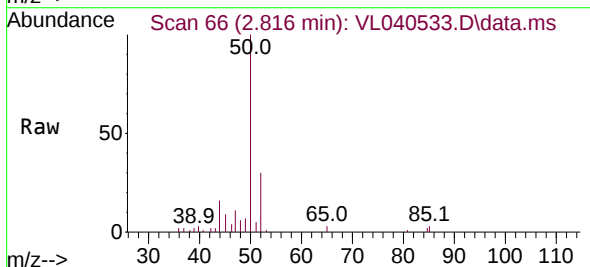
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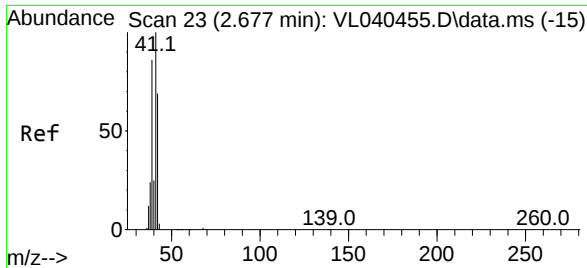
Reviewed By :Semsettin Yesilyurt 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023



#4
Chloromethane
Concen: 0.653 ppbv
RT: 2.816 min Scan# 66
Delta R.T. -0.007 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

Tgt Ion: 50 Resp: 39376
Ion Ratio Lower Upper
50 100
52 30.2 24.4 36.6





#9

Propene

Concen: 1.227 ppbv

RT: 2.703 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL040533.D

Acq: 14 Jul 2023 18:57

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 41 Resp: 63902

Ion Ratio Lower Upper

41 100

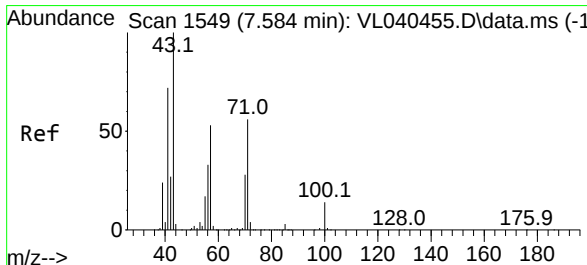
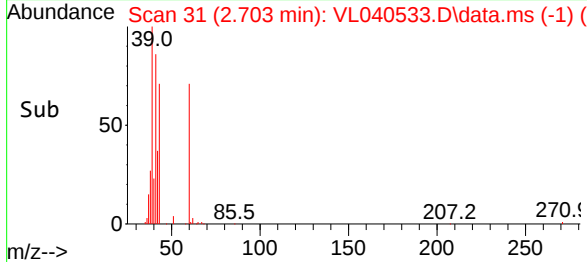
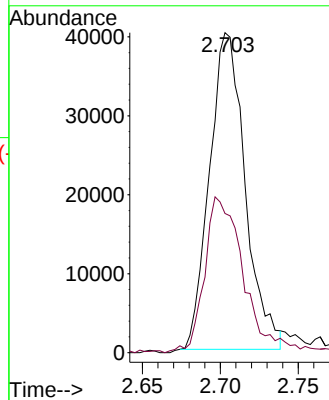
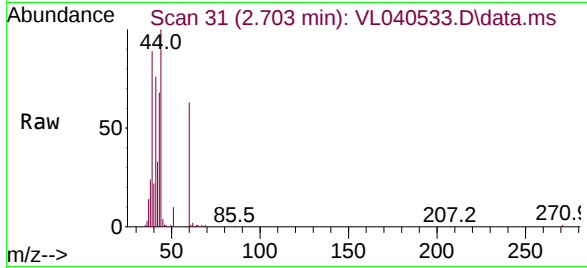
42 55.5 55.0 82.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/17/2023

Supervised By :Mahesh Dadoda 07/17/2023



#10

Heptane

Concen: 0.258 ppbv

RT: 7.584 min Scan# 1549

Delta R.T. -0.007 min

Lab File: VL040533.D

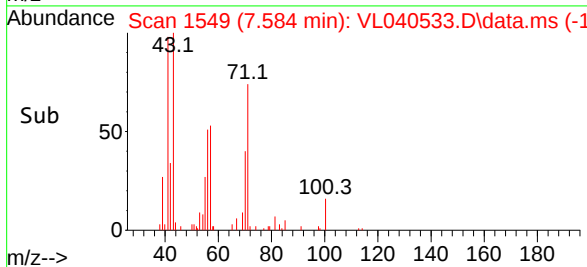
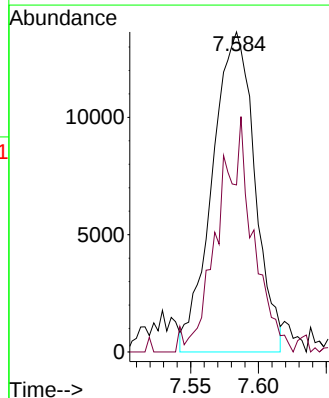
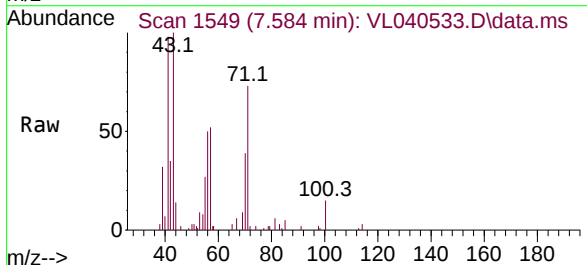
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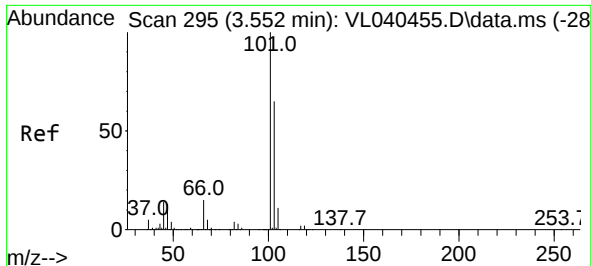
Tgt Ion: 43 Resp: 29729

Ion Ratio Lower Upper

43 100

57 60.2 42.5 63.7





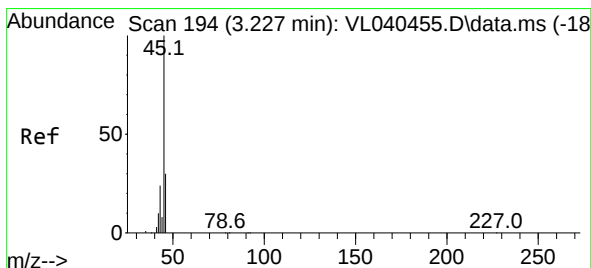
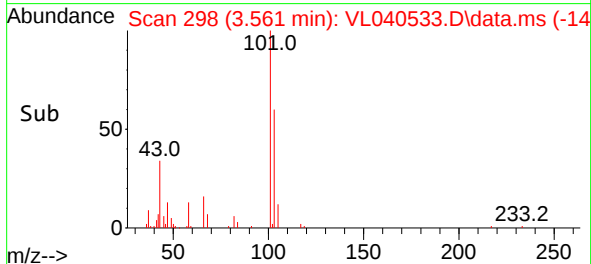
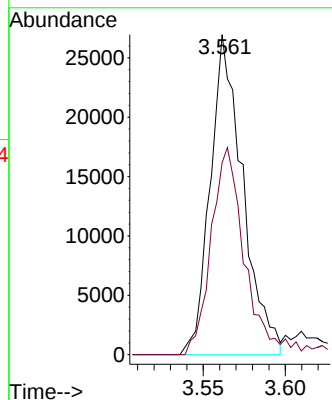
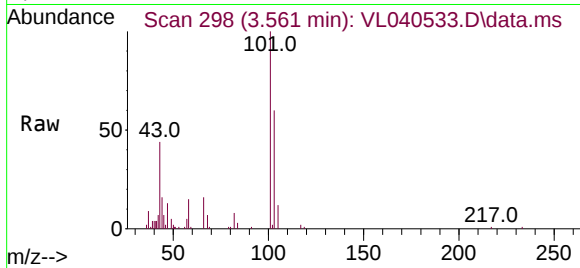
#11
 Trichlorofluoromethane
 Concen: 0.239 ppbv
 RT: 3.561 min Scan# 201
 Delta R.T. -0.010 min
 Lab File: VL040533.D
 Acq: 14 Jul 2023 18:57

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion:101 Resp: 37032
 Ion Ratio Lower Upper
 101 100
 103 60.0 53.4 80.0

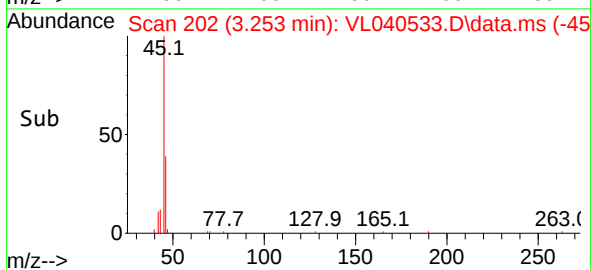
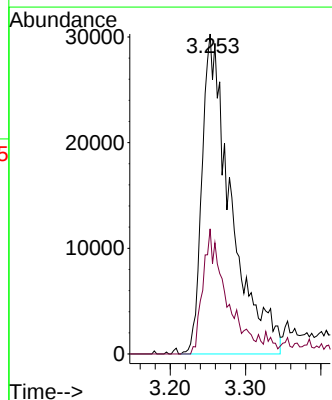
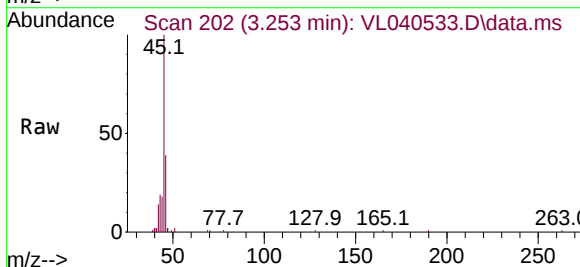
Manual Integrations
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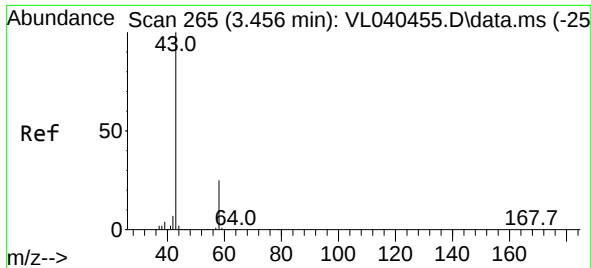
Reviewed By :Semsettin Yesilyurt 07/17/2023
 Supervised By :Mahesh Dadoda 07/17/2023



#13
 Ethanol
 Concen: 7.178 ppbv m
 RT: 3.253 min Scan# 202
 Delta R.T. 0.006 min
 Lab File: VL040533.D
 Acq: 14 Jul 2023 18:57

Tgt Ion: 45 Resp: 81362
 Ion Ratio Lower Upper
 45 100
 46 37.2 15.3 61.1





#15

Acetone

Concen: 9.623 ppbv

RT: 3.471 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL040533.D

Acq: 14 Jul 2023 18:57

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 43 Resp: 106353

Ion Ratio Lower Upper

43 100

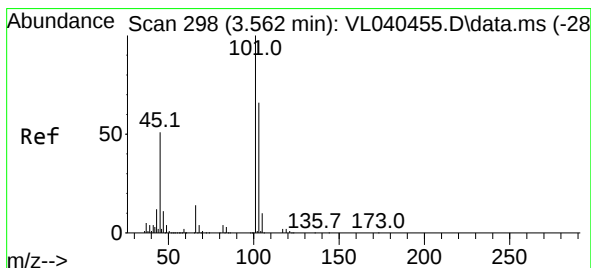
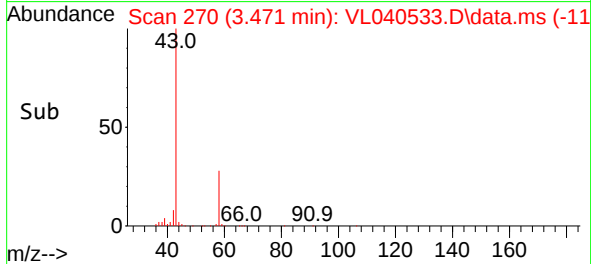
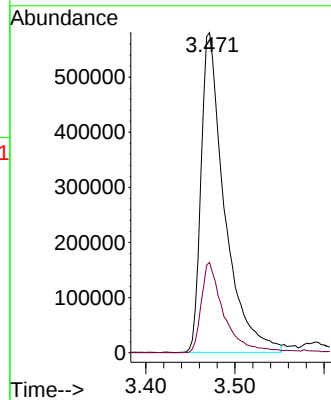
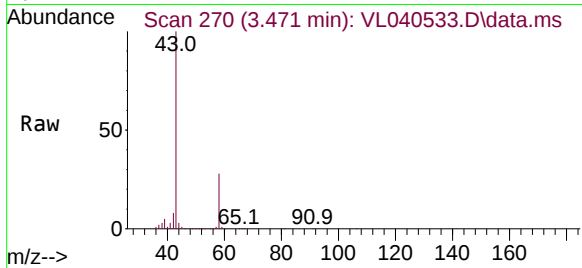
58 28.4 22.9 34.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/17/2023

Supervised By :Mahesh Dadoda 07/17/2023



#19

Isopropyl Alcohol

Concen: 1.383 ppbv

RT: 3.590 min Scan# 307

Delta R.T. 0.009 min

Lab File: VL040533.D

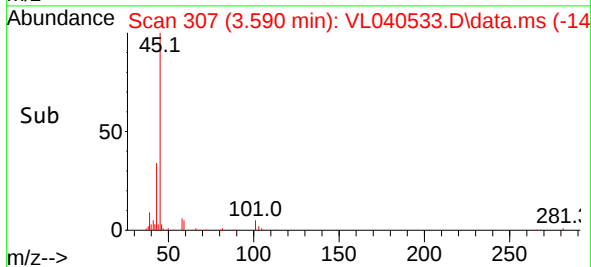
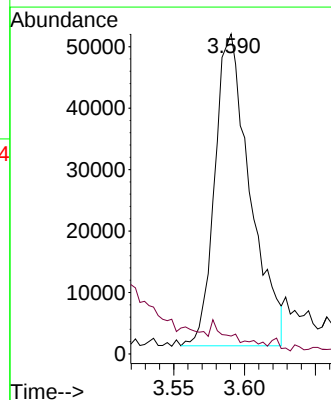
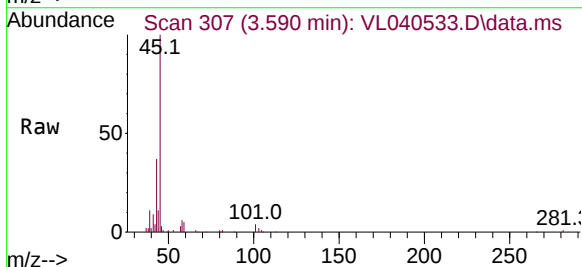
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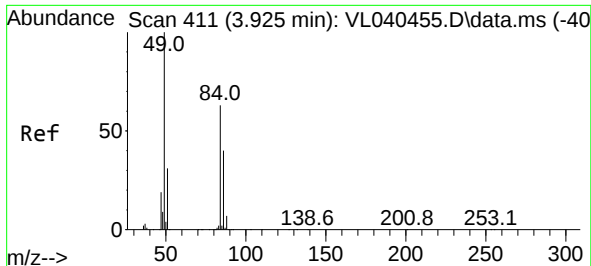
Tgt Ion: 45 Resp: 87713

Ion Ratio Lower Upper

45 100

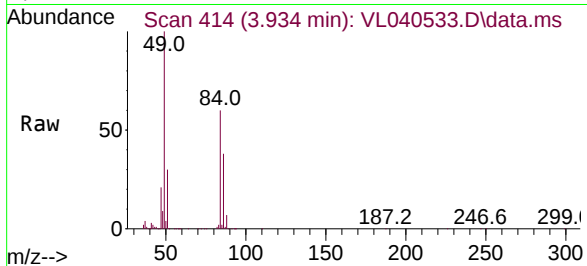
58 0.0 1.1 1.7#





#20
Methylene Chloride
Concen: 11.425 ppbv
RT: 3.934 min Scan# 411
Delta R.T. -0.007 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

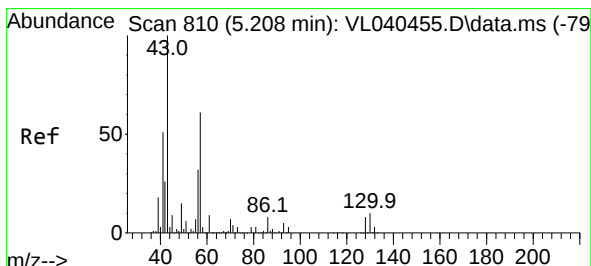
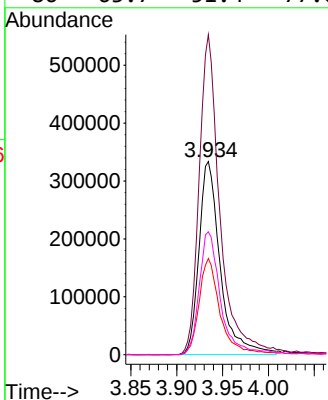
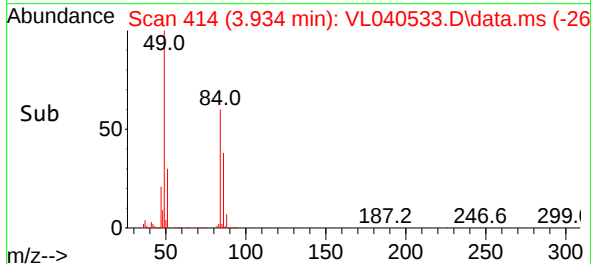
Instrument :
MSVOA_L
ClientSampleId :
OA1



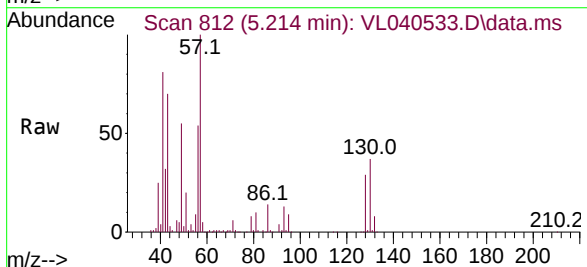
Tgt Ion: 84 Resp: 537072
Ion Ratio Lower Upper
84 100
49 165.8 123.4 185.2
51 49.7 38.3 57.5
86 63.7 51.4 77.0

Manual Integrations
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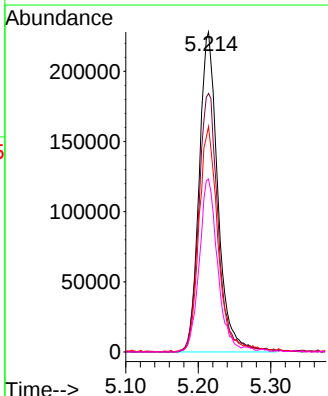
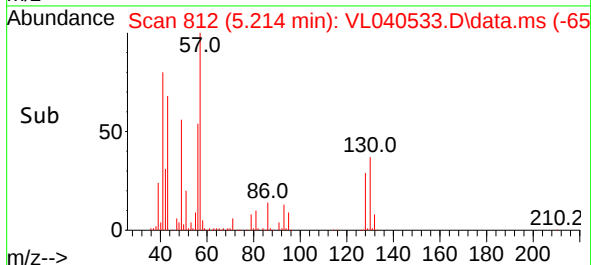
Reviewed By :Semsettin Yesilyurt 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

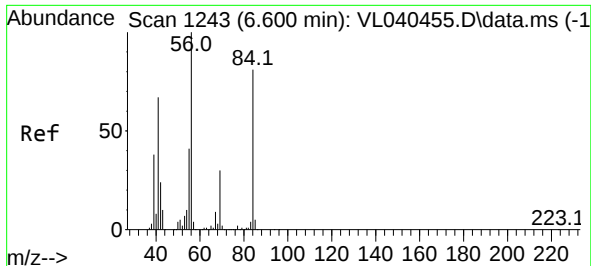


#26
Hexane
Concen: 4.175 ppbv
RT: 5.214 min Scan# 812
Delta R.T. -0.007 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57



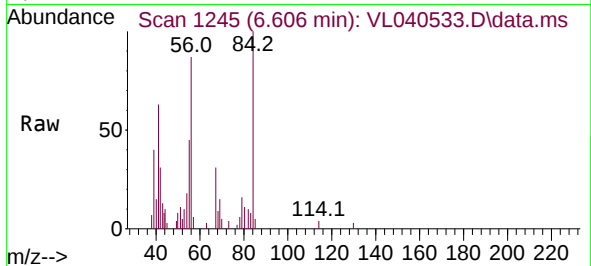
Tgt Ion: 57 Resp: 408102
Ion Ratio Lower Upper
57 100
41 85.3 69.5 104.3
43 72.9 177.1 265.7#
56 54.3 42.3 63.5





#30
Cyclohexane
Concen: 0.134 ppbv m
RT: 6.606 min Scan# 1243
Delta R.T. -0.003 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

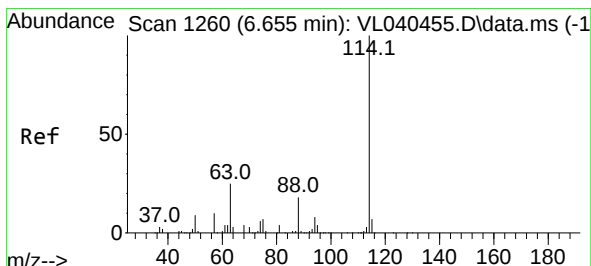
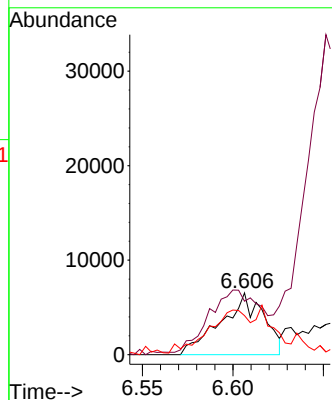
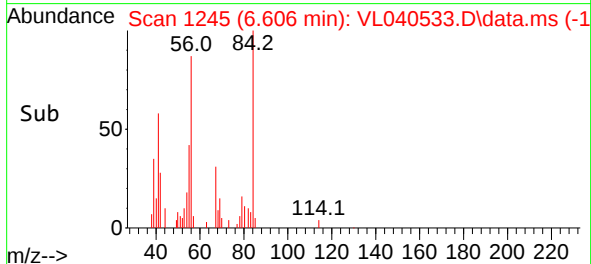
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 84 Resp: 10859
Ion Ratio Lower Upper
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41 0.0 64.5 96.7

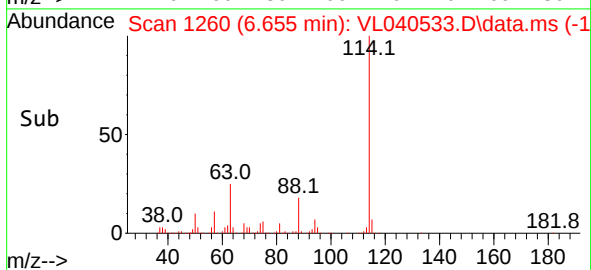
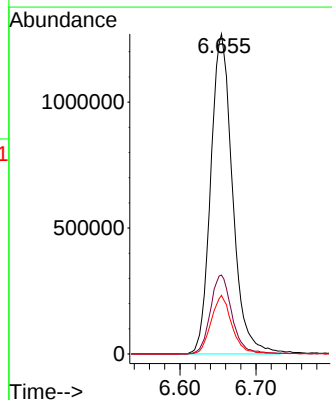
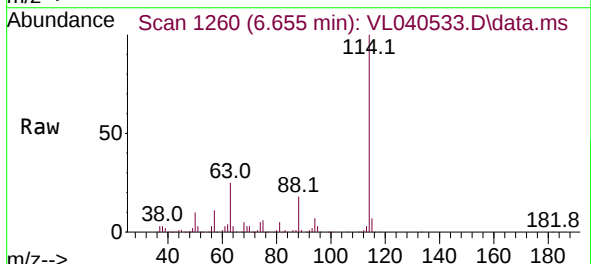
Manual Integrations
APPROVED

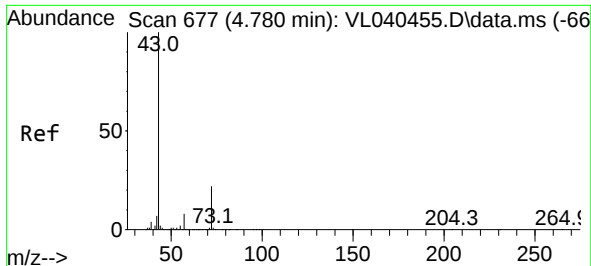
Reviewed By :Semsettin Yesilyurt 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.010 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

Tgt Ion:114 Resp: 2526246
Ion Ratio Lower Upper
114 100
63 24.8 19.6 29.4
88 17.7 14.2 21.2





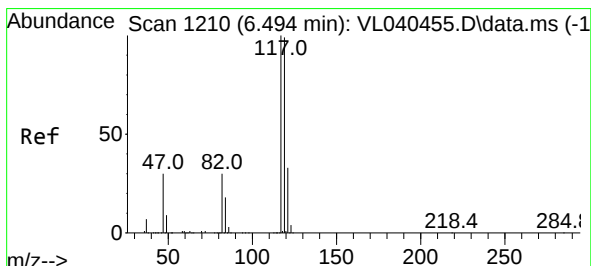
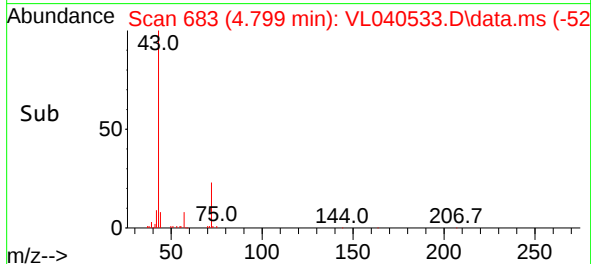
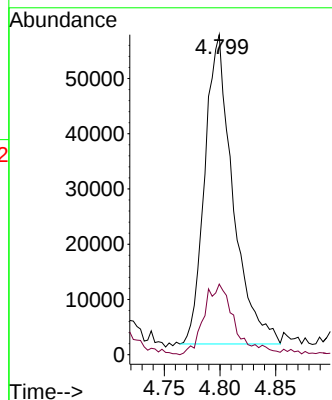
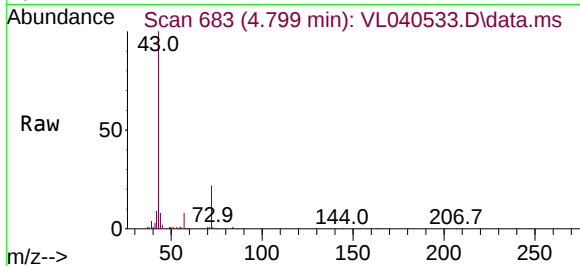
#34
2-Butanone
Concen: 0.788 ppbv
RT: 4.799 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 43 Resp: 98330
Ion Ratio Lower Upper
43 100
72 26.1 19.1 28.7

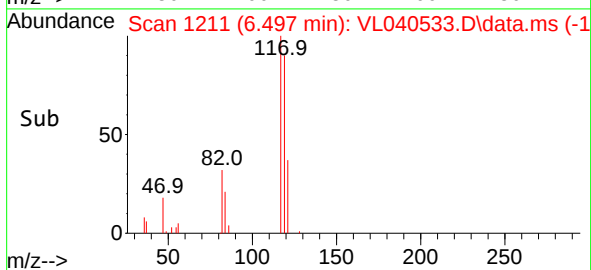
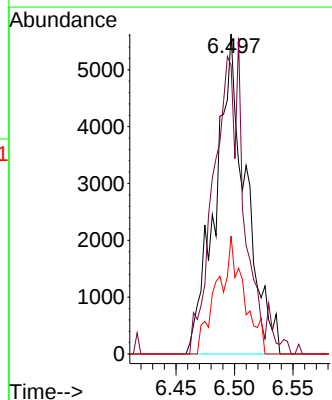
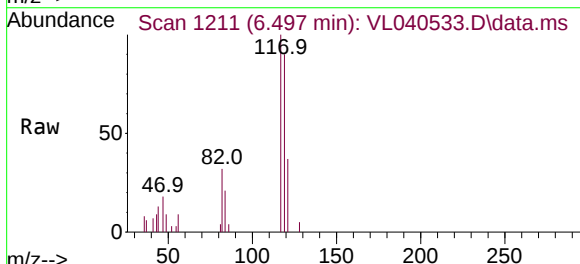
Manual Integrations
APPROVED

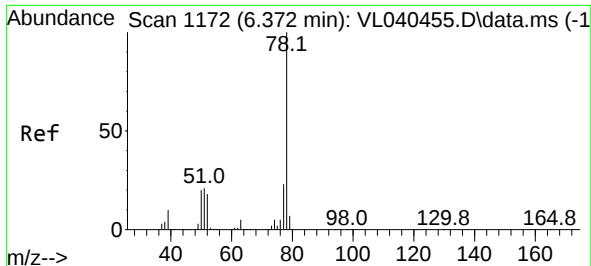
Reviewed By :Semsettin Yesilyurt 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023



#35
Carbon Tetrachloride
Concen: 0.067 ppbv m
RT: 6.497 min Scan# 1211
Delta R.T. -0.007 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

Tgt Ion:117 Resp: 10232
Ion Ratio Lower Upper
117 100
119 90.2 77.8 116.6
121 36.8 24.8 37.2





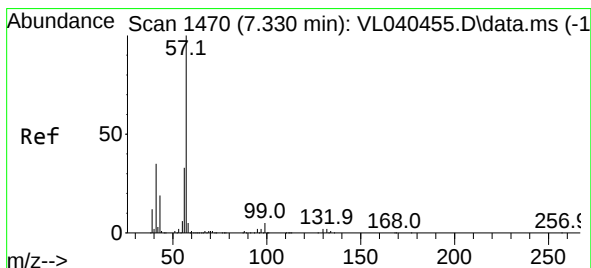
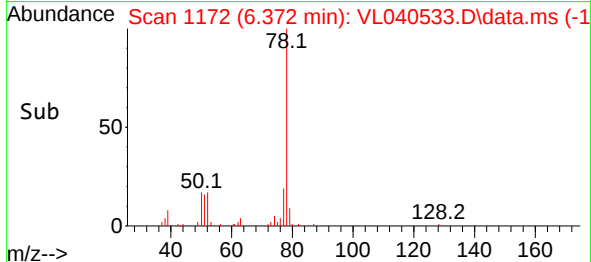
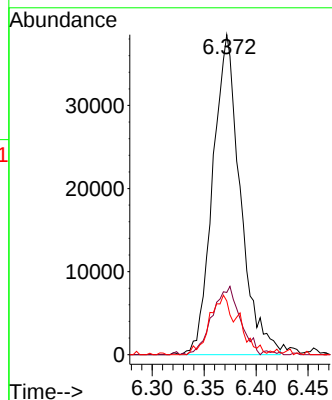
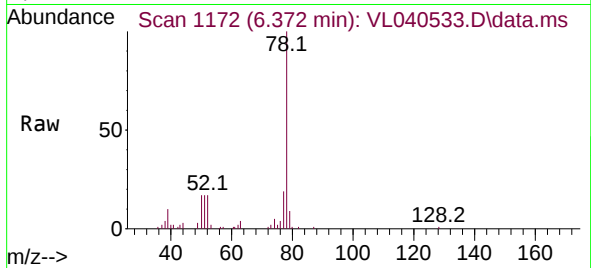
#36
Benzene
Concen: 0.349 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. -0.010 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 78 Resp: 70898
Ion Ratio Lower Upper
78 100
77 19.5 17.4 26.0
50 16.8 14.4 21.6

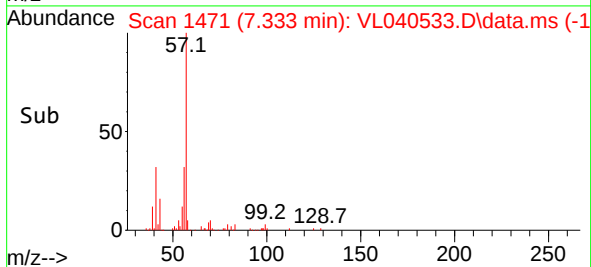
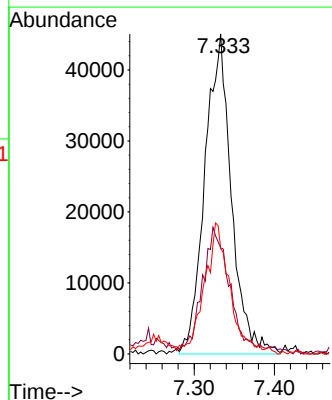
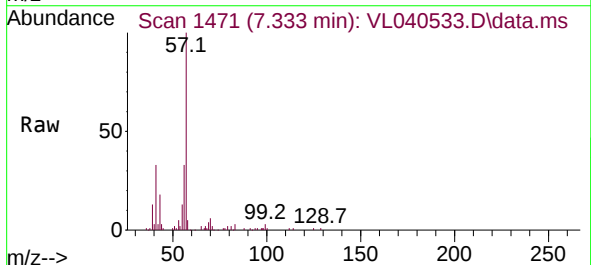
Manual Integrations
APPROVED

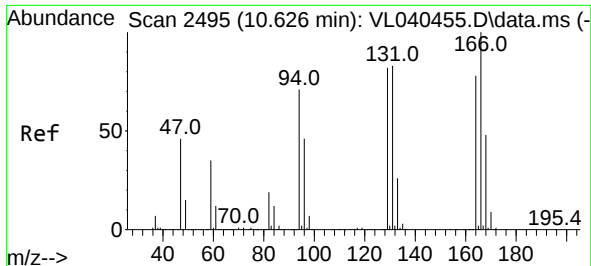
Reviewed By :Semsettin Yesilyurt 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023



#44
2,2,4-Trimethylpentane
Concen: 0.316 ppbv m
RT: 7.333 min Scan# 1471
Delta R.T. -0.003 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

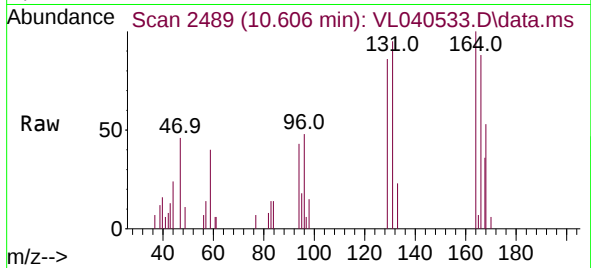
Tgt Ion: 57 Resp: 103322
Ion Ratio Lower Upper
57 100
41 43.0 25.5 38.3#
56 38.7 25.1 37.7#





#52
Tetrachloroethene
Concen: 0.097 ppbv m
RT: 10.606 min Scan# 2495
Delta R.T. -0.020 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

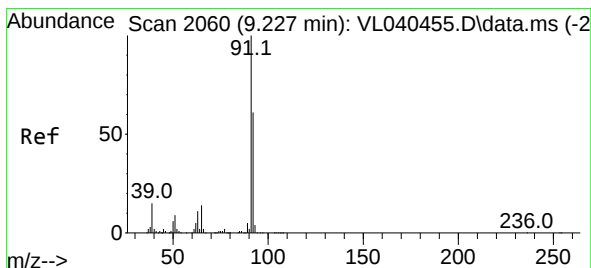
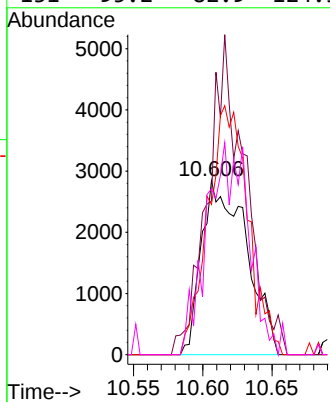
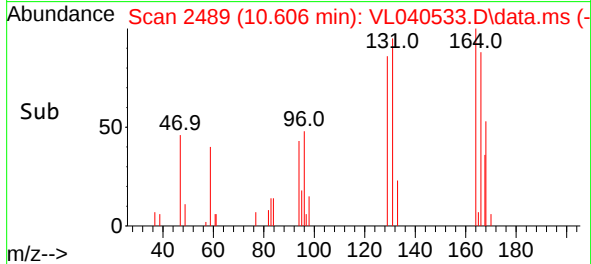
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:164 Resp: 6412
Ion Ratio Lower Upper
164 100
166 88.3 103.9 155.9
129 86.3 84.6 126.8
131 95.2 82.9 124.3

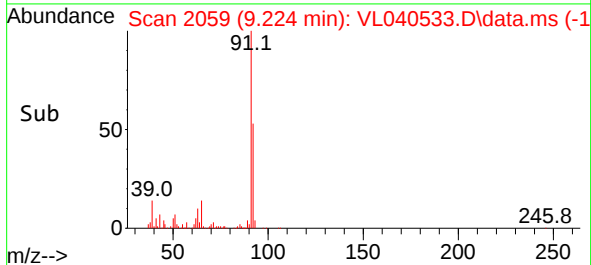
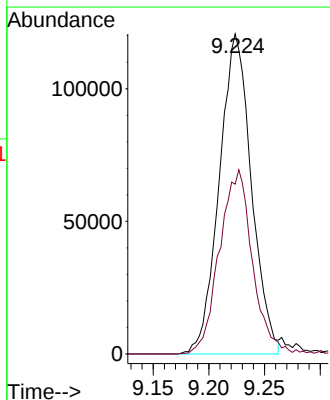
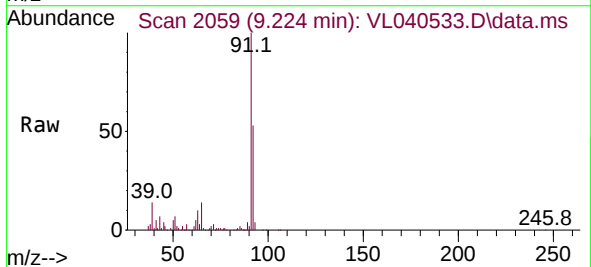
Manual Integrations
APPROVED

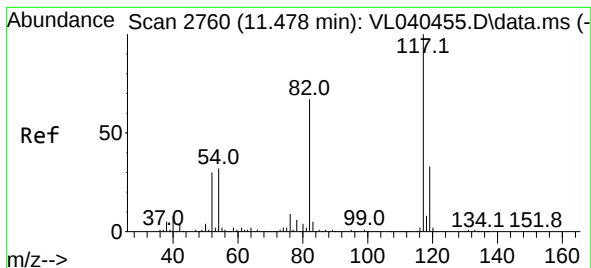
Reviewed By :Semsettin Yesilyurt 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023



#53
Toluene
Concen: 1.097 ppbv
RT: 9.224 min Scan# 2059
Delta R.T. -0.007 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

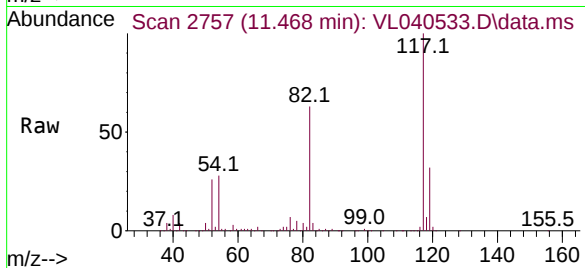
Tgt Ion: 91 Resp: 242134
Ion Ratio Lower Upper
91 100
92 59.5 49.1 73.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

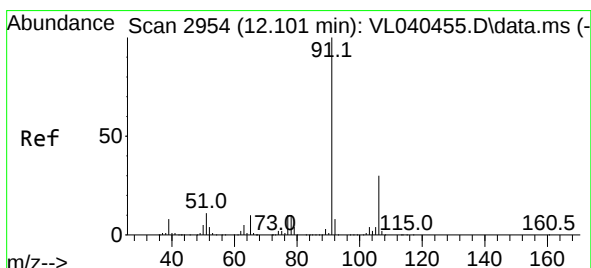
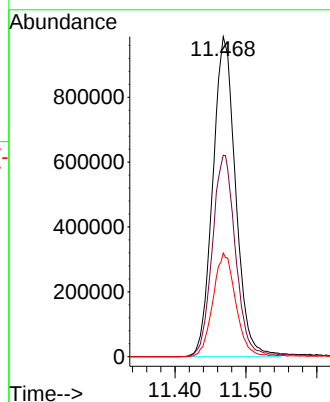
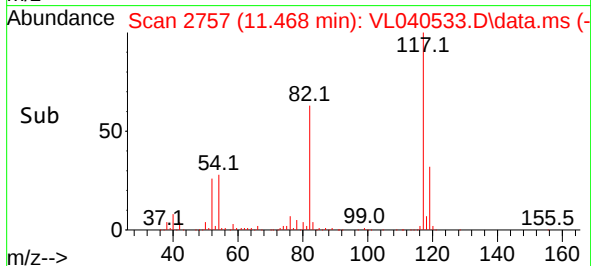
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:117 Resp: 2208928
Ion Ratio Lower Upper
117 100
82 65.1 50.2 75.4
119 32.6 26.9 40.3

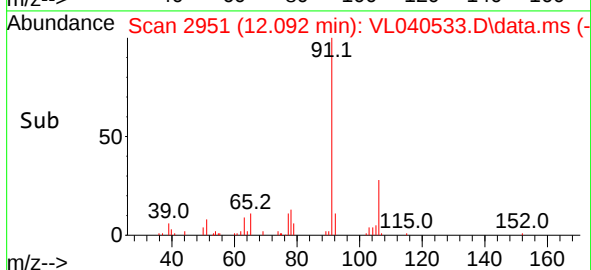
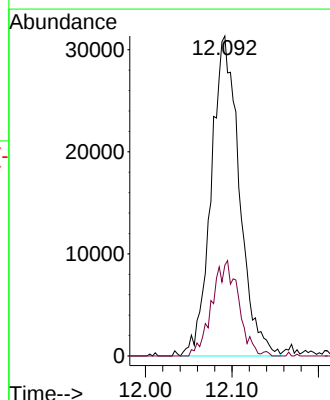
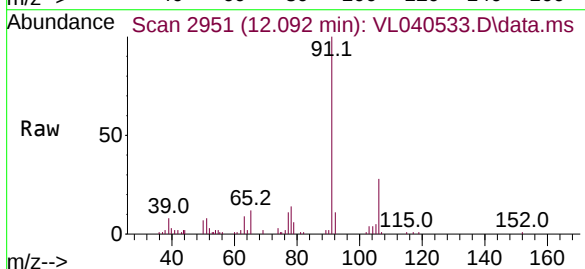
Manual Integrations
APPROVED

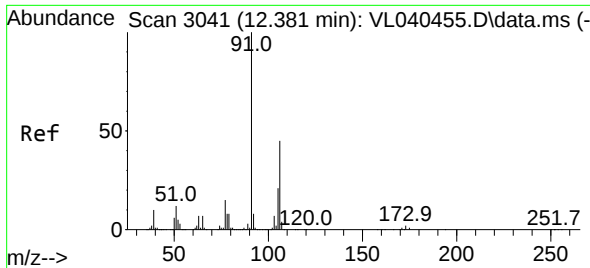
Reviewed By :Semsettin Yesilyurt 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023



#58
Ethyl Benzene
Concen: 0.257 ppbv m
RT: 12.092 min Scan# 2951
Delta R.T. -0.010 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

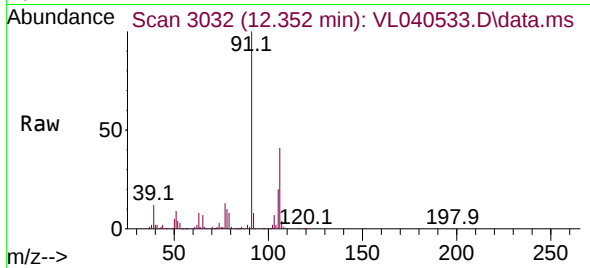
Tgt Ion: 91 Resp: 71291
Ion Ratio Lower Upper
91 100
106 28.3 25.4 38.0





#59
m/p-Xylene
Concen: 1.171 ppbv m
RT: 12.352 min Scan# 3041
Delta R.T. -0.032 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

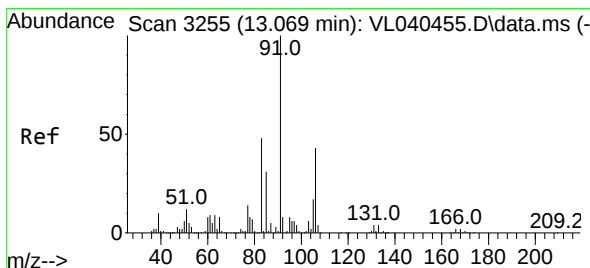
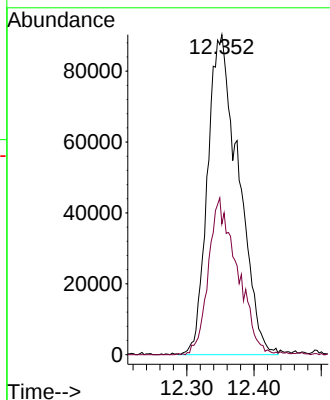
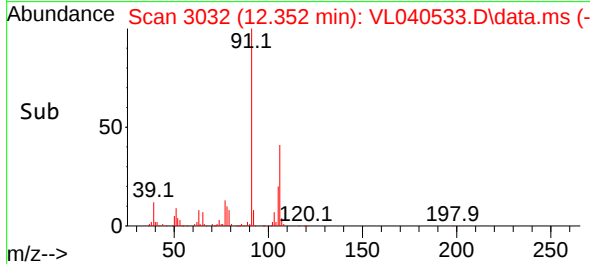
Instrument :
MSVOA_L
ClientSampleId :
OA1



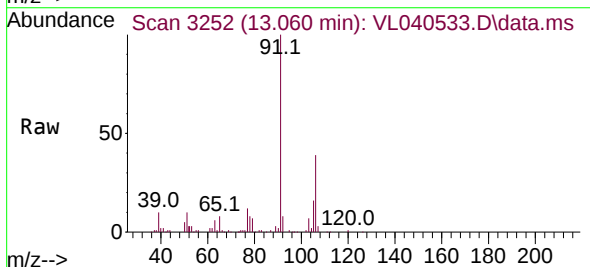
Tgt Ion: 91 Resp: 289709
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9

Manual Integrations
APPROVED

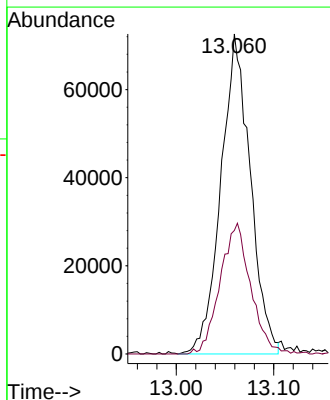
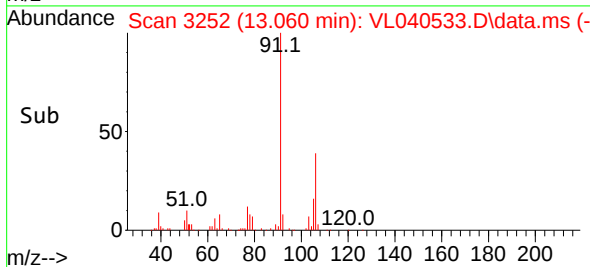
Reviewed By :Semsettin Yesilyurt 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

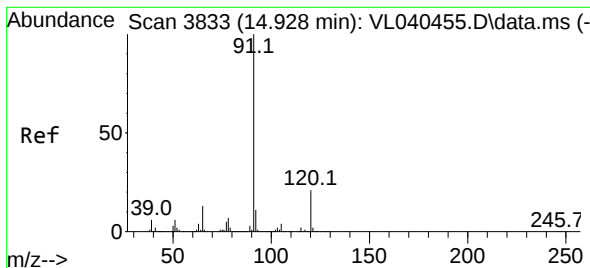


#60
o-Xylene
Concen: 0.645 ppbv
RT: 13.060 min Scan# 3252
Delta R.T. -0.010 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57



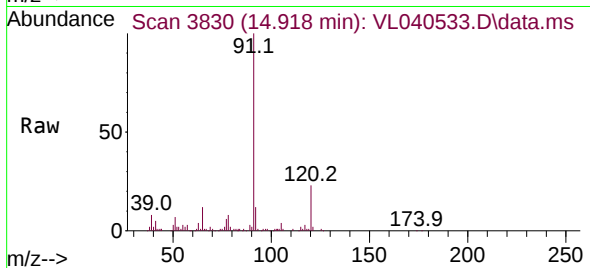
Tgt Ion: 91 Resp: 152131
Ion Ratio Lower Upper
91 100
106 42.7 22.7 68.0





#64
n-propylbenzene
Concen: 0.500 ppbv
RT: 14.918 min Scan# 3830
Delta R.T. -0.013 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

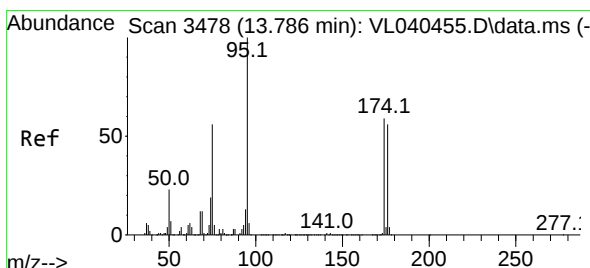
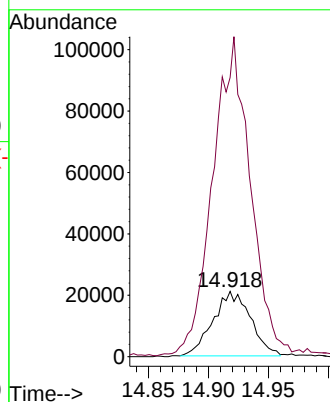
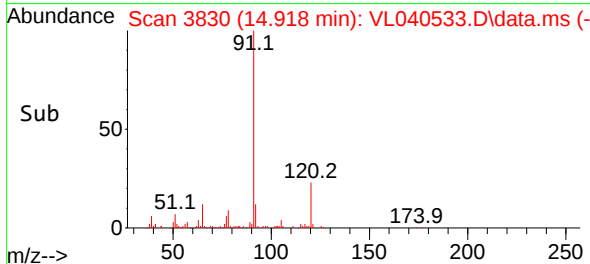
Instrument :
MSVOA_L
ClientSampleId :
OA1



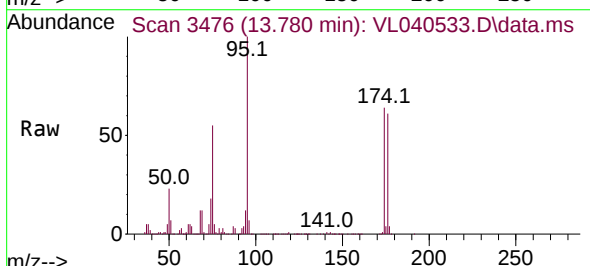
Tgt Ion: 120 Resp: 45732
Ion Ratio Lower Upper
120 100
91 500.6 374.3 561.5

Manual Integrations
APPROVED

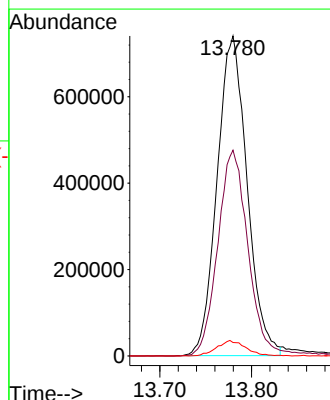
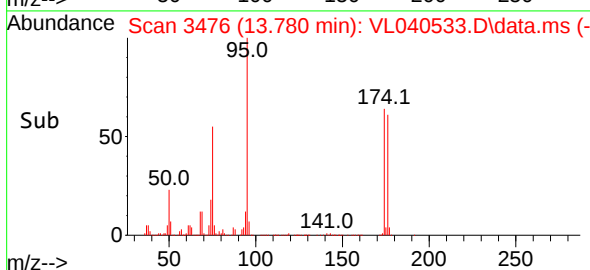
Reviewed By :Semsettin Yesilyurt 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

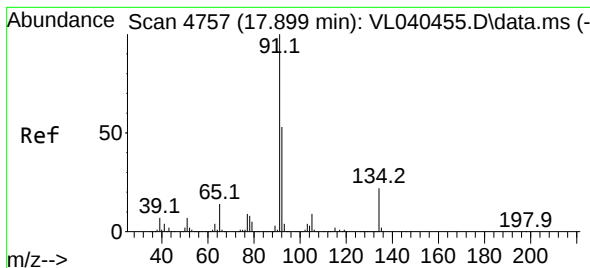


#68
1-Bromo-4-Fluorobenzene
Concen: 9.624 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. -0.003 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57



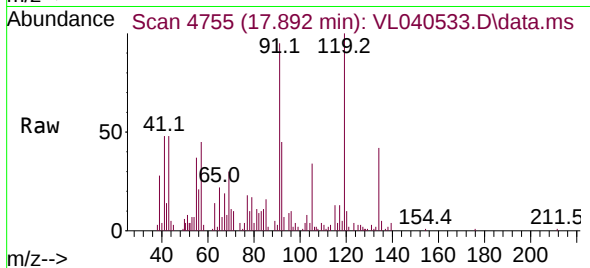
Tgt Ion: 95 Resp: 1682533
Ion Ratio Lower Upper
95 100
174 66.5 50.6 75.8
175 4.8 3.7 5.5





#70
n-Butylbenzene
Concen: 0.153 ppbv m
RT: 17.892 min Scan# 4755
Delta R.T. -0.003 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

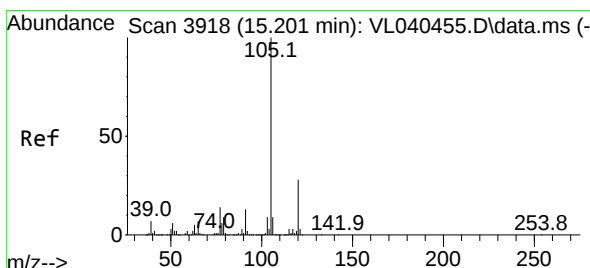
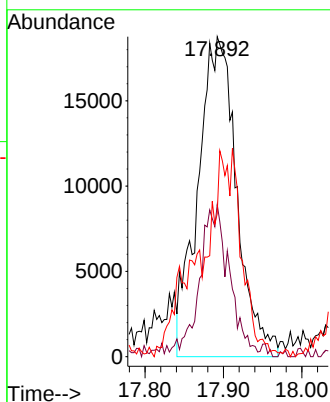
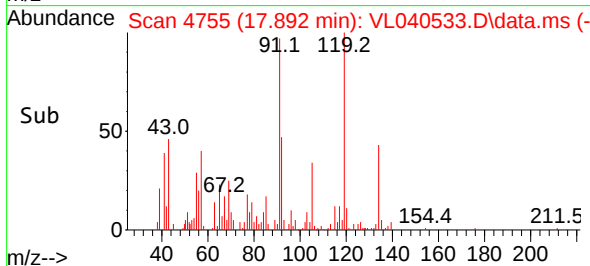
Instrument :
MSVOA_L
ClientSampleId :
OA1



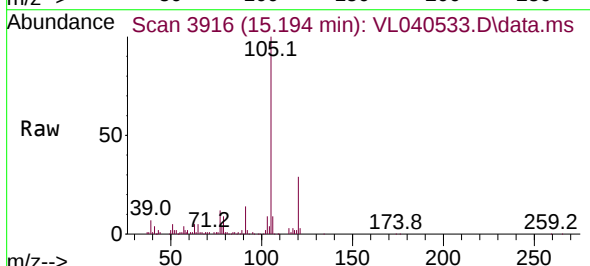
Tgt Ion: 91 Resp: 6470
Ion Ratio Lower Upper
91 100
92 0.0 43.4 65.0
134 0.0 18.1 27.1

Manual Integrations
APPROVED

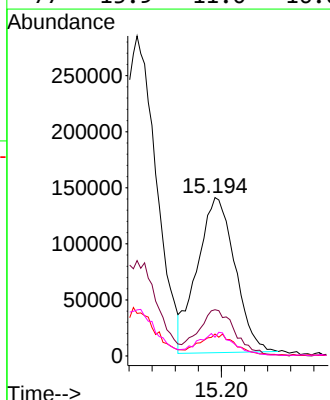
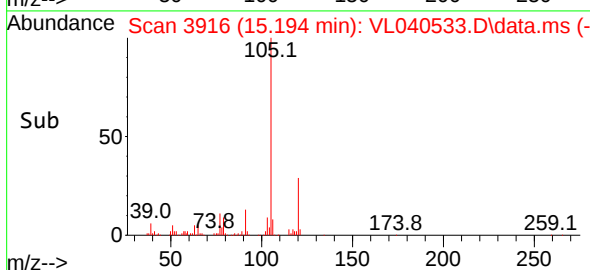
Reviewed By :Semsettin Yesilyurt 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

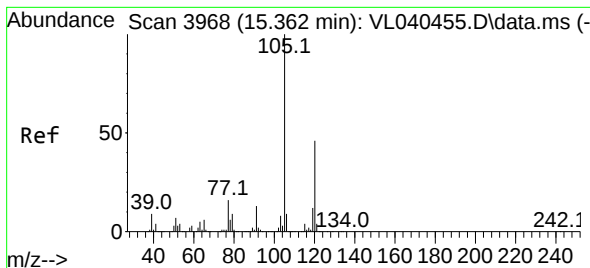


#72
4-Ethyltoluene
Concen: 1.141 ppbv
RT: 15.194 min Scan# 3916
Delta R.T. -0.010 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57



Tgt Ion:105 Resp: 315112
Ion Ratio Lower Upper
105 100
120 29.5 24.6 37.0
91 13.6 10.7 16.1
77 13.9 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 1.240 ppbv

RT: 15.355 min Scan# 3966

Delta R.T. -0.007 min

Lab File: VL040533.D

Acq: 14 Jul 2023 18:57

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion:105 Resp: 301980

Ion Ratio Lower Upper

105 100

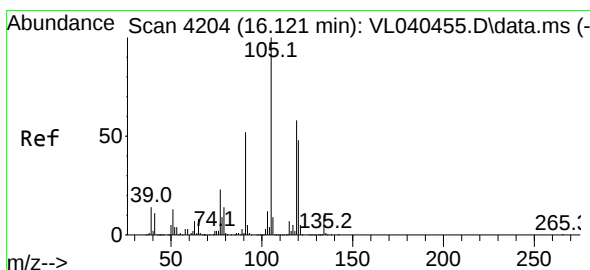
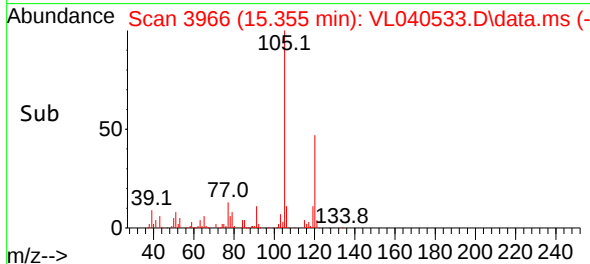
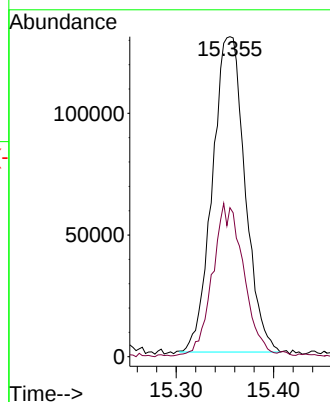
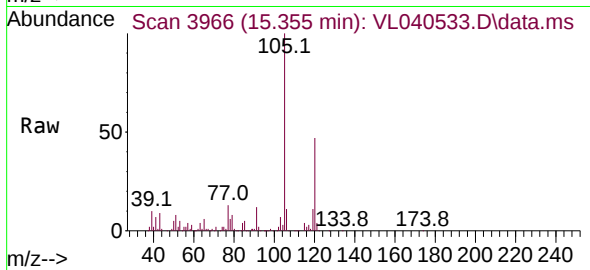
120 46.5 38.2 57.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/17/2023

Supervised By :Mahesh Dadoda 07/17/2023



#74

1,2,4-Trimethylbenzene

Concen: 4.718 ppbv

RT: 16.108 min Scan# 4200

Delta R.T. -0.010 min

Lab File: VL040533.D

Acq: 14 Jul 2023 18:57

Tgt Ion:105 Resp: 1339686

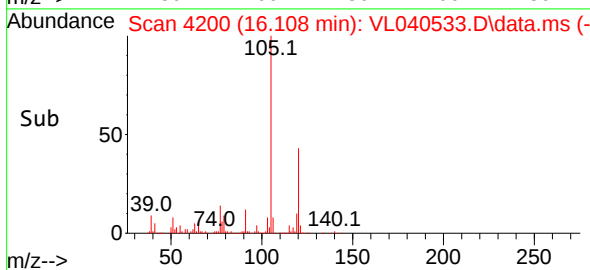
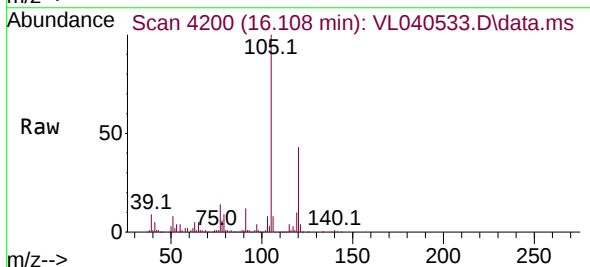
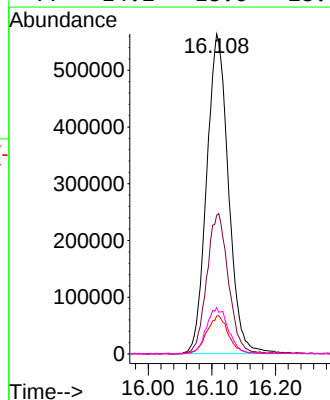
Ion Ratio Lower Upper

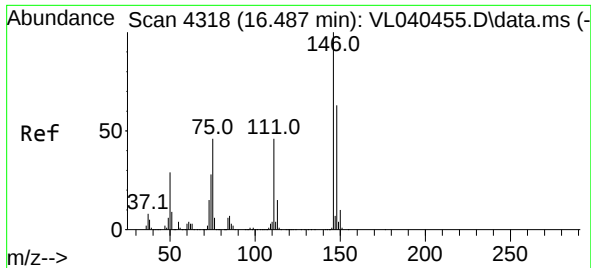
105 100

120 43.4 40.3 60.5

91 11.8 46.8 70.2#

77 14.2 18.6 28.0#





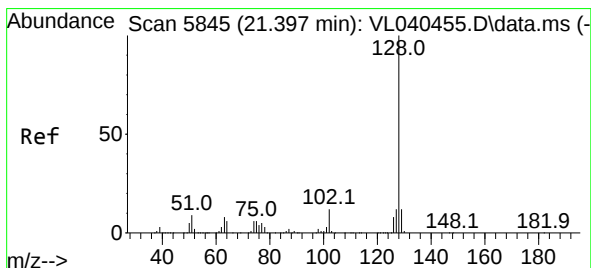
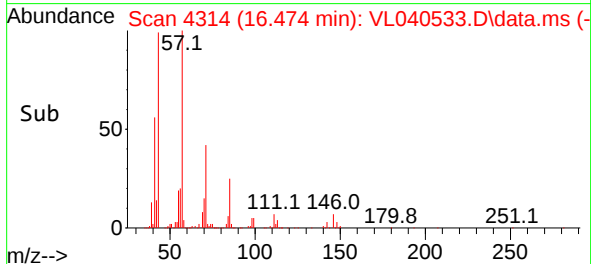
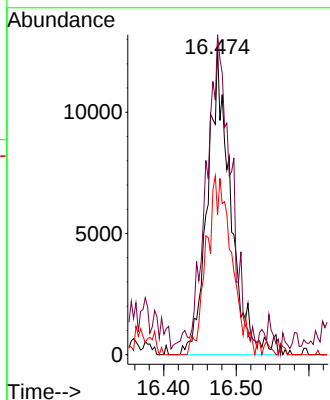
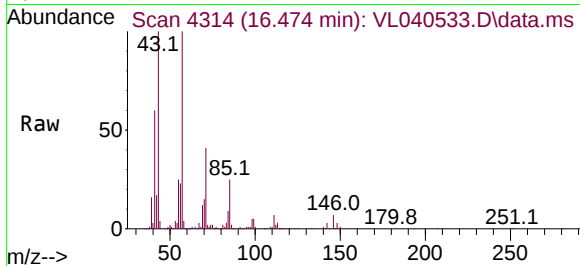
#76
1,4-Dichlorobenzene
Concen: 0.165 ppbv m
RT: 16.474 min Scan# 4318
Delta R.T. -0.013 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:146 Resp: 27890
Ion Ratio Lower Upper
146 100
111 120.4 22.8 68.3
148 66.5 32.6 97.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023



#79
Naphthalene
Concen: 0.333 ppbv m
RT: 21.394 min Scan# 5844
Delta R.T. -0.000 min
Lab File: VL040533.D
Acq: 14 Jul 2023 18:57

Tgt Ion:128 Resp: 79917
Ion Ratio Lower Upper
128 100
127 14.2 10.7 16.1
129 10.7 9.2 13.8

