

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100423\
 Data File : VL040743.D
 Acq On : 4 Oct 2023 16:54
 Operator : SY/MD
 Sample : 04716-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/05/2023
 Supervised By :Mahesh Dadoda 10/05/2023

Quant Time: Oct 05 04:27:49 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M

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

QLast Update : Tue Sep 19 05:12:43 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	955034	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2675255	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.449	117	2269128	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	1724223	9.835	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.745	85	108482	0.516	ppbv	99
3) Chlorodifluoromethane	2.694	51	140381m	0.902	ppbv	
4) Chloromethane	2.829	50	37011m	0.621	ppbv	
9) Propene	2.719	41	126413m	2.820	ppbv	
10) Heptane	7.571	43	33690m	0.334	ppbv	
11) Trichlorofluoromethane	3.575	101	44335	0.240	ppbv	96
13) Ethanol	3.250	45	361731	27.266	ppbv	98
15) Acetone	3.478	43	1238044m	9.828	ppbv	
20) Methylene Chloride	3.941	84	502904	7.417	ppbv	96
26) Hexane	5.214	57	361351	3.761	ppbv #	44
29) Chloroform	5.272	83	16838m	0.102	ppbv	
30) Cyclohexane	6.597	84	17755m	0.245	ppbv	
34) 2-Butanone	4.796	43	78046	0.580	ppbv	97
35) Carbon Tetrachloride	6.494	117	13913m	0.076	ppbv	
36) Benzene	6.369	78	111011	0.560	ppbv	94
38) Trichloroethene	7.285	130	4266m	0.056	ppbv	
44) 2,2,4-Trimethylpentane	7.314	57	120959m	0.383	ppbv	
52) Tetrachloroethene	10.603	164	7497m	0.116	ppbv	
53) Toluene	9.208	91	2660771	12.722	ppbv	99
58) Ethyl Benzene	12.076	91	86350m	0.334	ppbv	
59) m/p-Xylene	12.330	91	333026	1.371	ppbv	96
60) o-Xylene	13.040	91	117781	0.508	ppbv	98
61) Styrene	12.880	104	25009m	0.258	ppbv	
73) 1,3,5-Trimethylbenzene	15.339	105	80735	0.345	ppbv	91
74) 1,2,4-Trimethylbenzene	16.089	105	269088	0.944	ppbv #	68

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

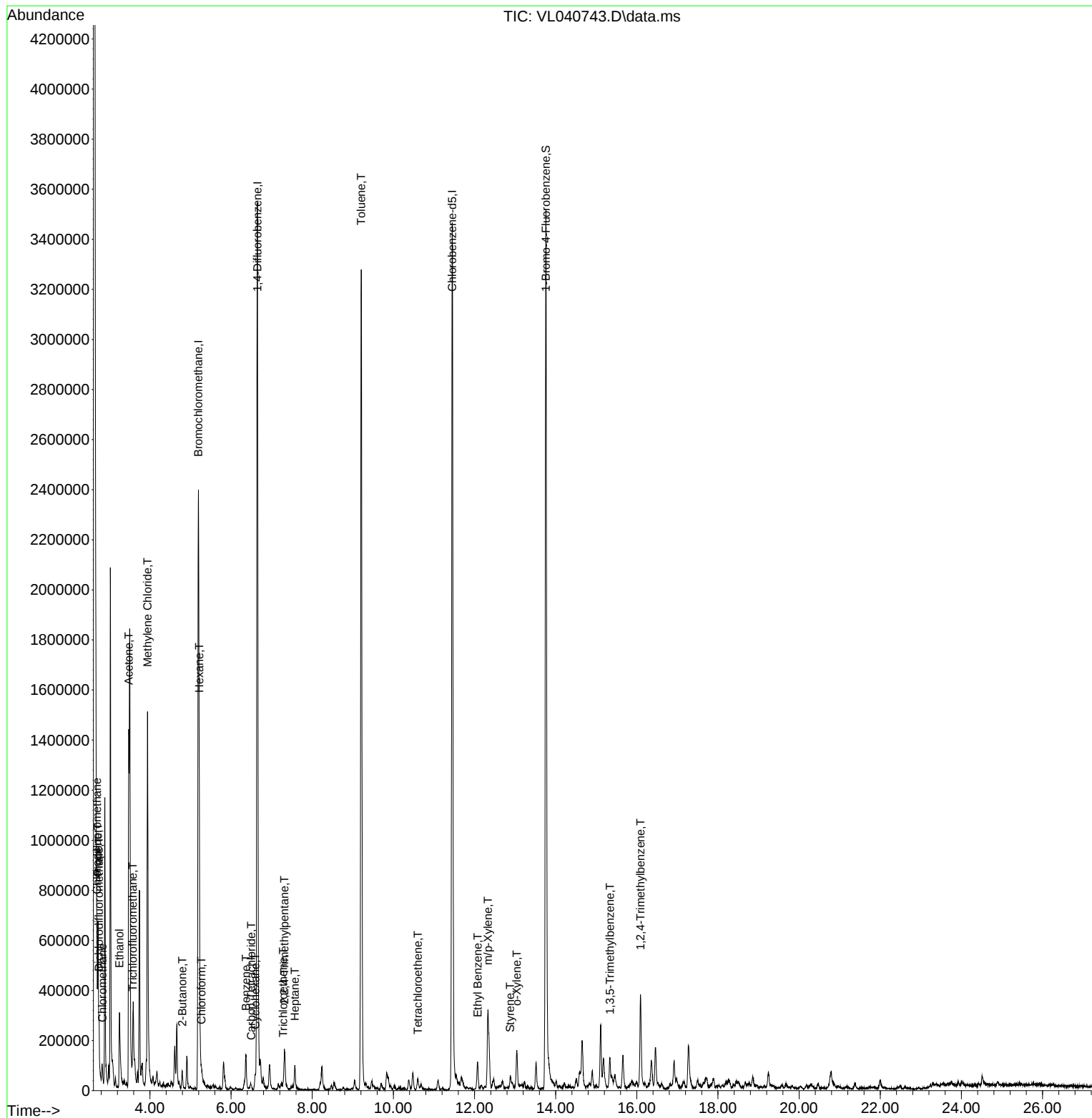
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100423\
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Response via : Initial Calibration

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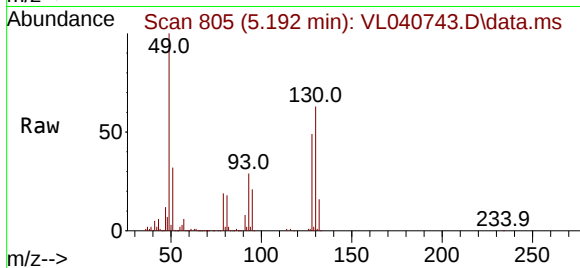
Reviewed By : Semsettin Yesilyurt 10/05/2023
Supervised By : Mahesh Dadoda 10/05/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.006 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

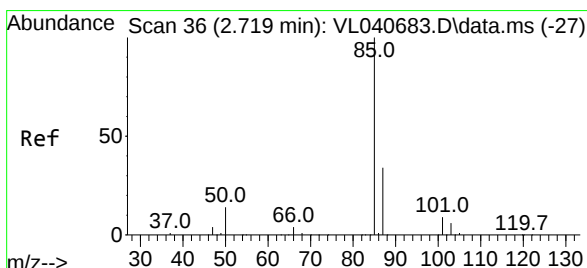
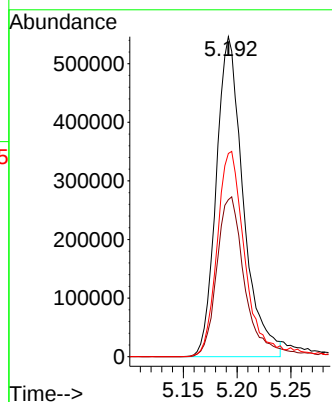
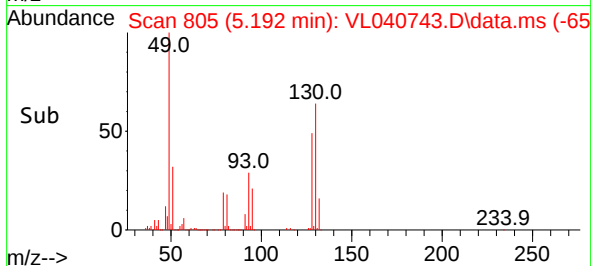
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 955034
Ion Ratio Lower Upper
49 100
128 54.0 25.4 76.0
130 68.6 32.3 96.8

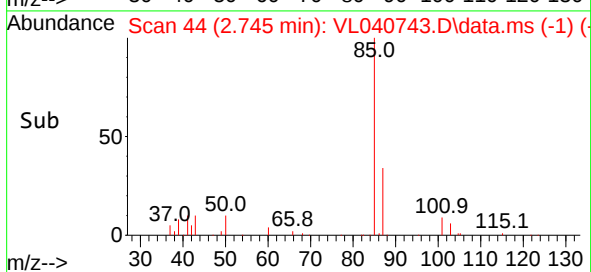
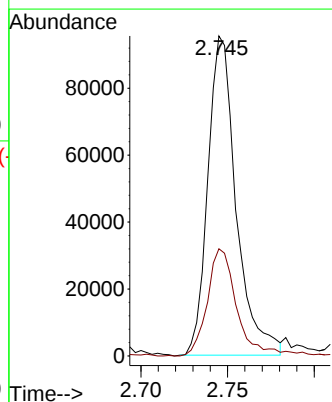
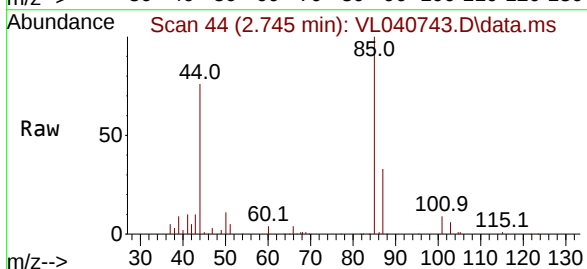
Manual Integrations
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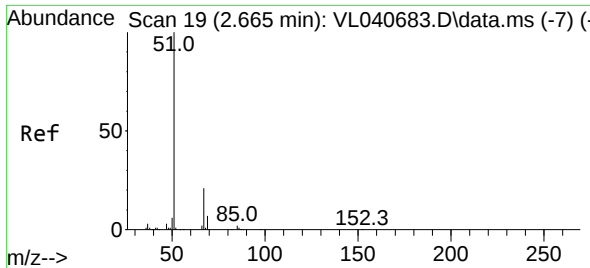
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#2
Dichlorodifluoromethane
Concen: 0.516 ppbv
RT: 2.745 min Scan# 44
Delta R.T. 0.013 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

Tgt Ion: 85 Resp: 108482
Ion Ratio Lower Upper
85 100
87 33.6 27.2 40.8





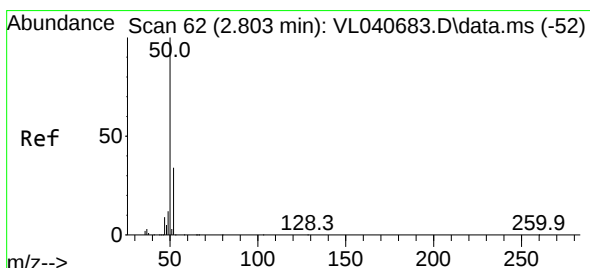
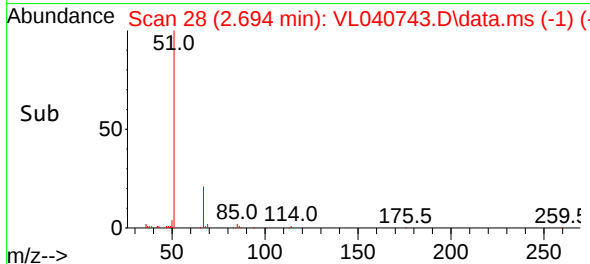
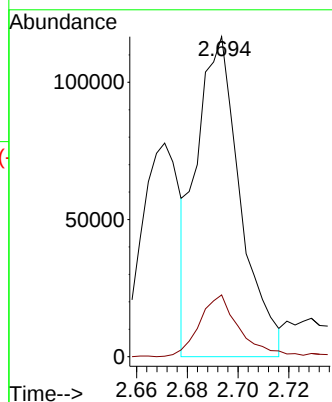
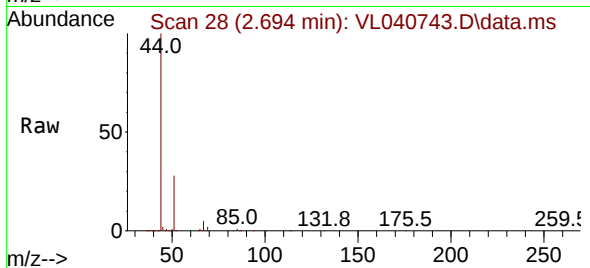
#3
Chlorodifluoromethane
Concen: 0.902 ppbv m
RT: 2.694 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 51 Resp: 14038
Ion Ratio Lower Upper
51 100
67 18.6 16.7 25.1

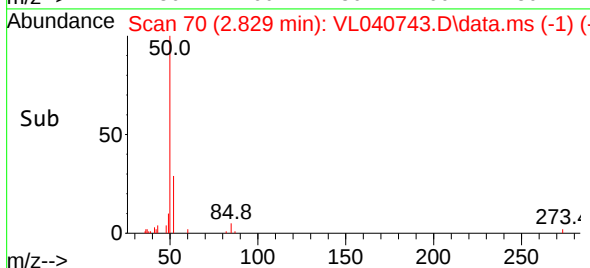
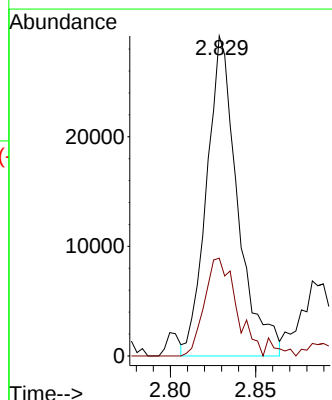
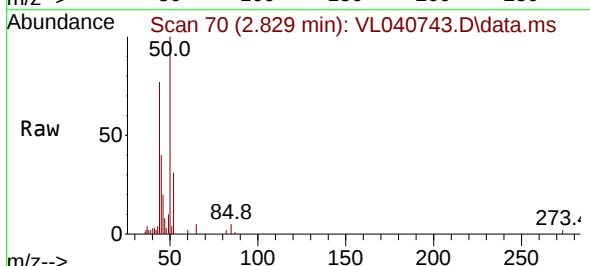
Manual Integrations
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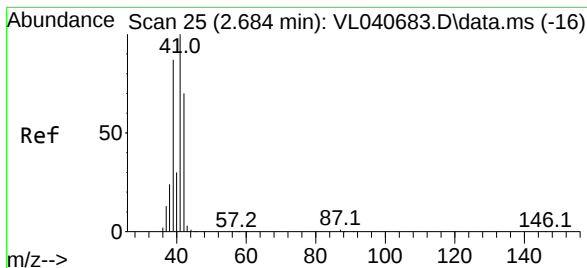
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#4
Chloromethane
Concen: 0.621 ppbv m
RT: 2.829 min Scan# 70
Delta R.T. 0.013 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

Tgt Ion: 50 Resp: 37011
Ion Ratio Lower Upper
50 100
52 30.6 27.1 40.7





#9

Propene

Concen: 2.820 ppbv m

RT: 2.719 min Scan# 30

Delta R.T. 0.023 min

Lab File: VL040743.D

Acq: 4 Oct 2023 16:54

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 41 Resp: 12641

Ion Ratio Lower Upper

41 100

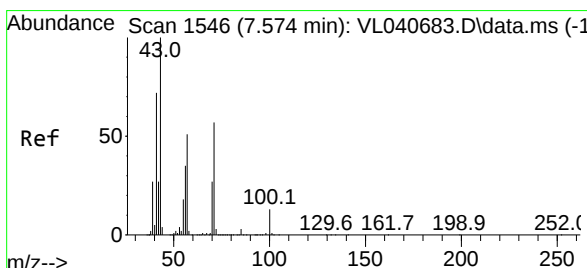
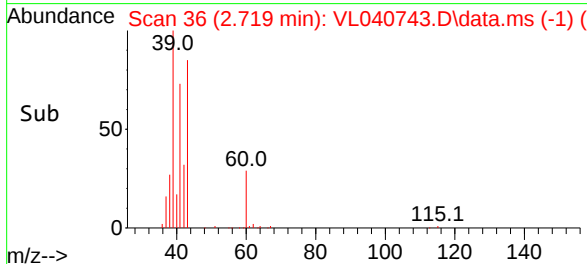
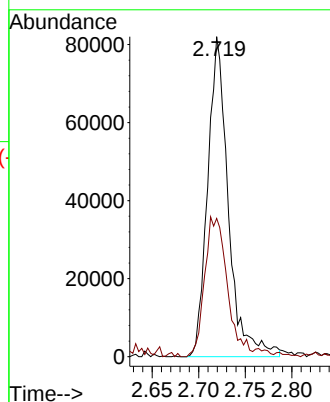
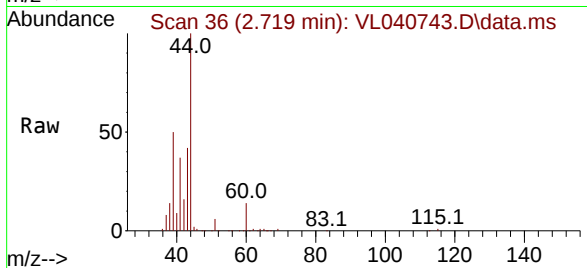
42 162.2 56.7 85.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/05/2023

Supervised By :Mahesh Dadoda 10/05/2023



#10

Heptane

Concen: 0.334 ppbv m

RT: 7.571 min Scan# 1545

Delta R.T. -0.016 min

Lab File: VL040743.D

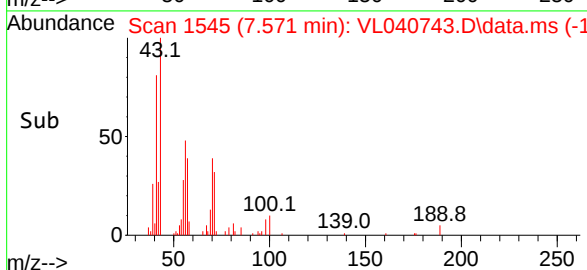
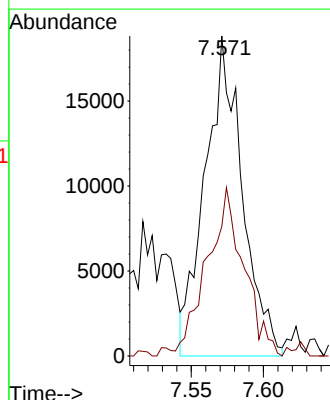
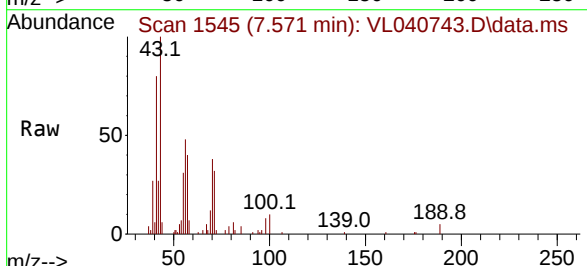
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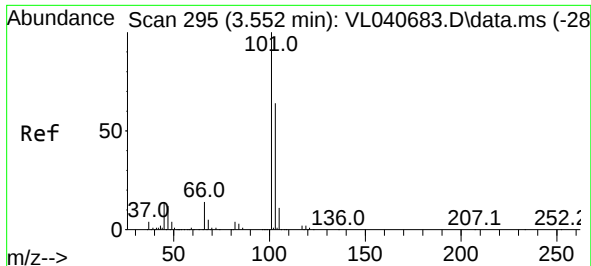
Tgt Ion: 43 Resp: 33690

Ion Ratio Lower Upper

43 100

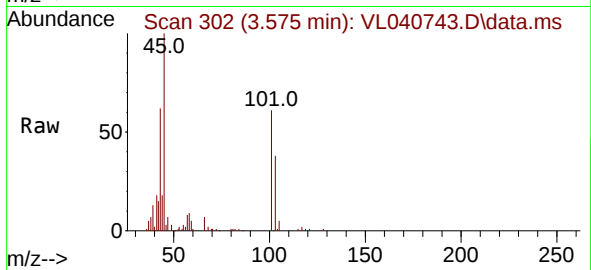
57 0.0 41.8 62.6





#11
Trichlorofluoromethane
Concen: 0.240 ppbv
RT: 3.575 min Scan# 302
Delta R.T. 0.007 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

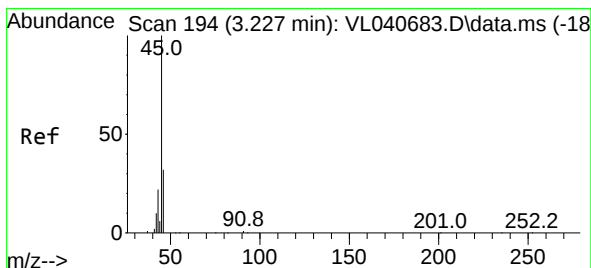
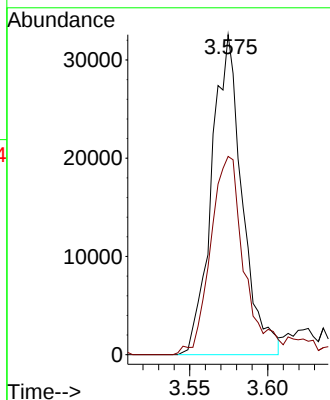
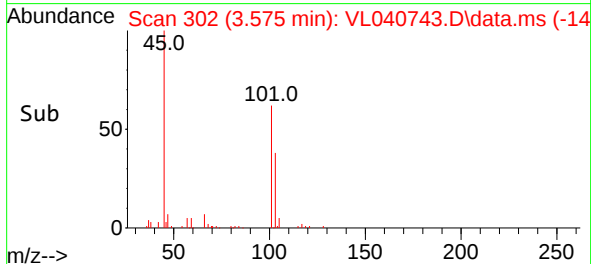
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:101 Resp: 4433
Ion Ratio Lower Upper
101 100
103 61.3 51.3 76.9

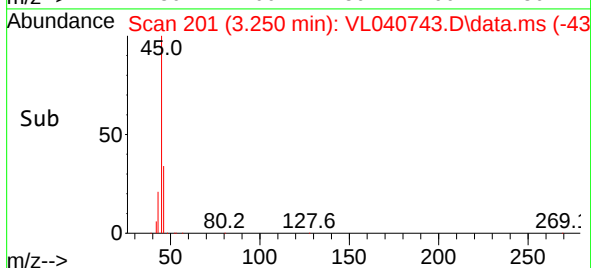
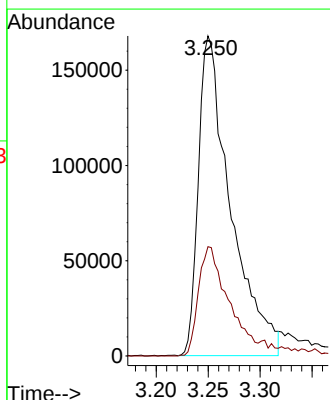
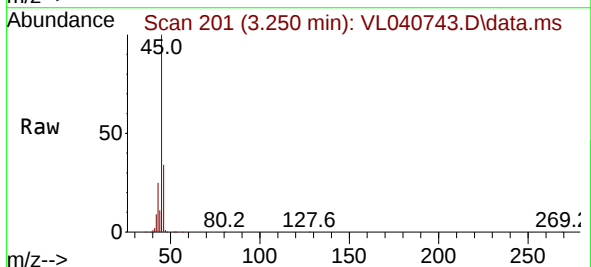
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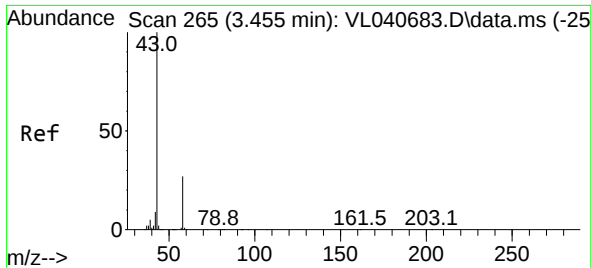
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#13
Ethanol
Concen: 27.266 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.007 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

Tgt Ion: 45 Resp: 361731
Ion Ratio Lower Upper
45 100
46 37.1 15.2 61.0





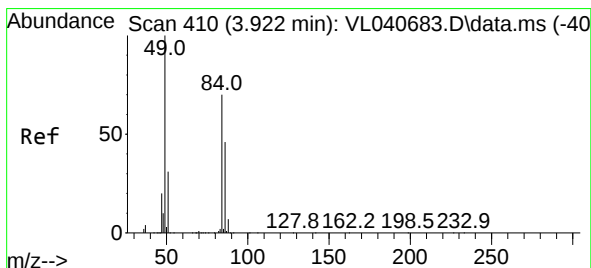
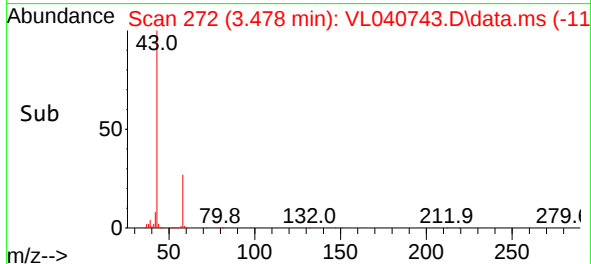
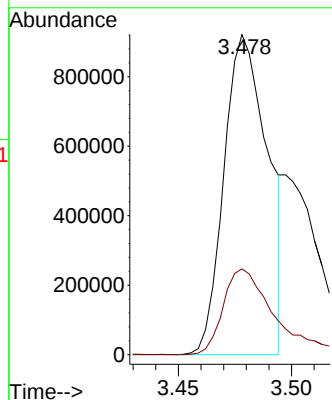
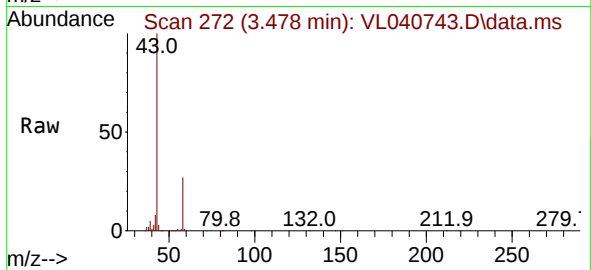
#15
Acetone
Concen: 9.828 ppbv m
RT: 3.478 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 123804
Ion Ratio Lower Upper
43 100
58 33.6 22.6 34.0

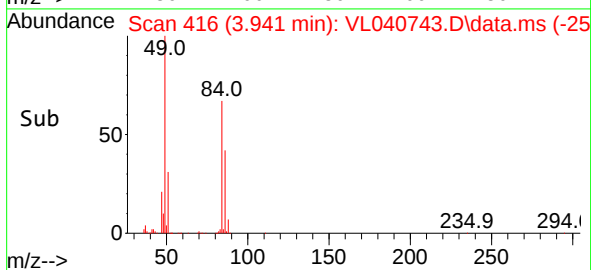
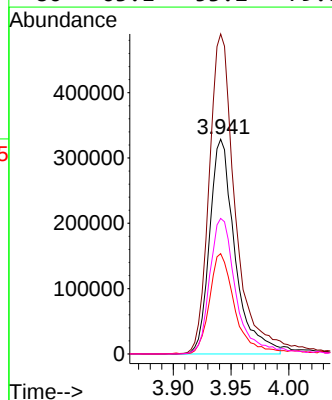
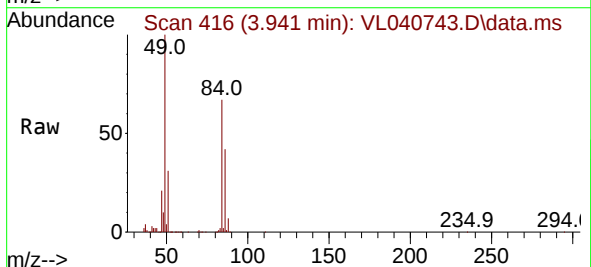
Manual Integrations
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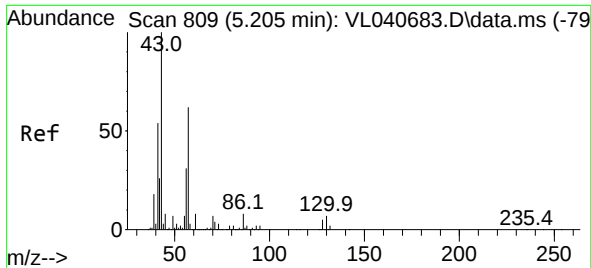
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#20
Methylene Chloride
Concen: 7.417 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.003 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

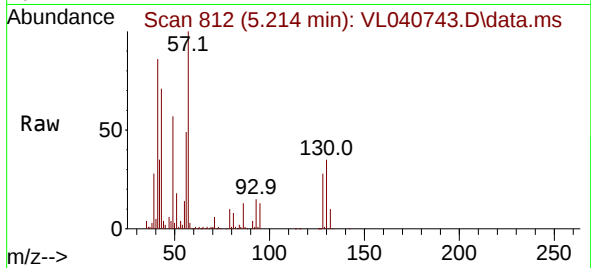
Tgt Ion: 84 Resp: 502904
Ion Ratio Lower Upper
84 100
49 148.6 114.4 171.6
51 46.5 35.5 53.3
86 63.1 53.2 79.8





#26
Hexane
Concen: 3.761 ppbv
RT: 5.214 min Scan# 812
Delta R.T. -0.006 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

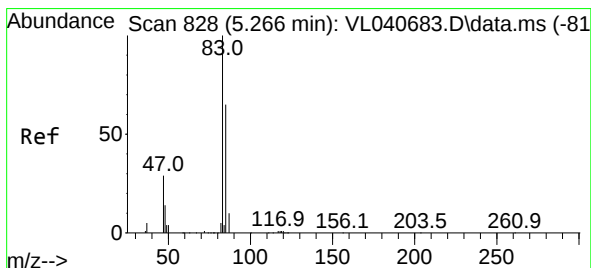
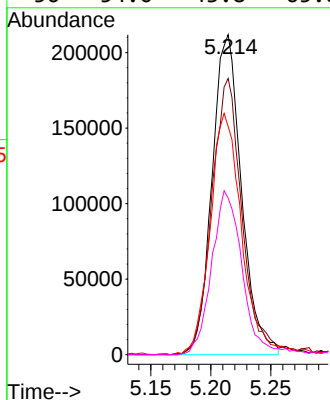
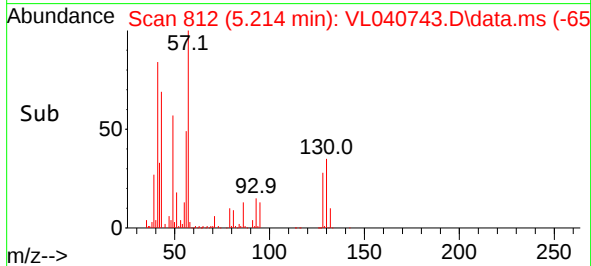
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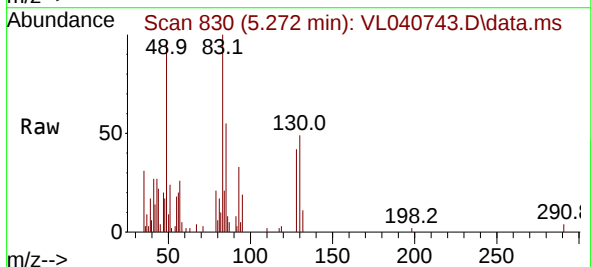
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Ion Ratio Lower Upper
57 100
41 90.6 75.2 112.8
43 82.5 185.6 278.4
56 54.0 43.8 65.8

Manual Integrations
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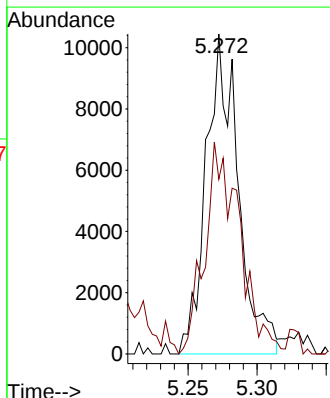
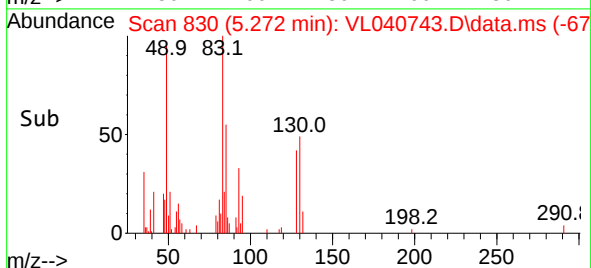
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

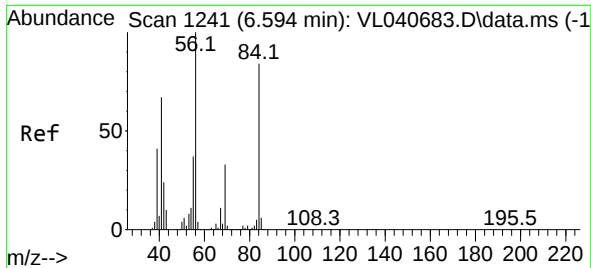


#29
Chloroform
Concen: 0.102 ppbv m
RT: 5.272 min Scan# 830
Delta R.T. -0.010 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54



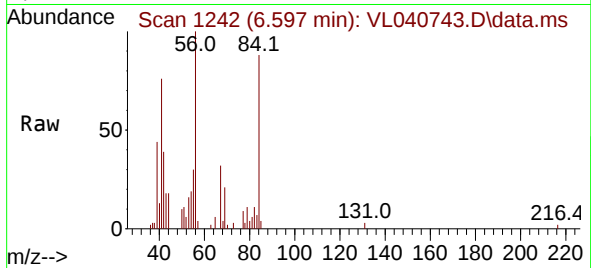
Tgt Ion: 83 Resp: 16838
Ion Ratio Lower Upper
83 100
85 54.6 51.8 77.8





#30
Cyclohexane
Concen: 0.245 ppbv m
RT: 6.597 min Scan# 1241
Delta R.T. -0.013 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

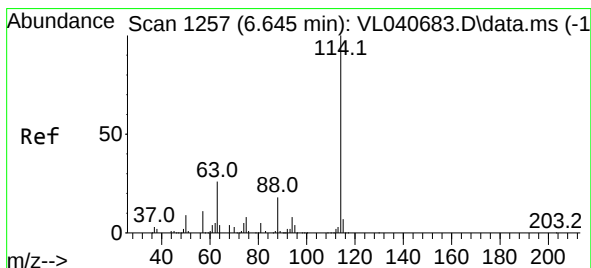
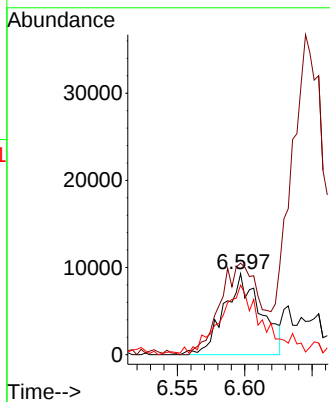
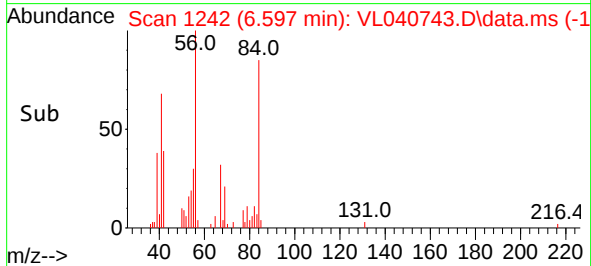
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 84 Resp: 1775
Ion Ratio Lower Upper
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56 0.0 103.2 154.8
41 0.0 65.5 98.3

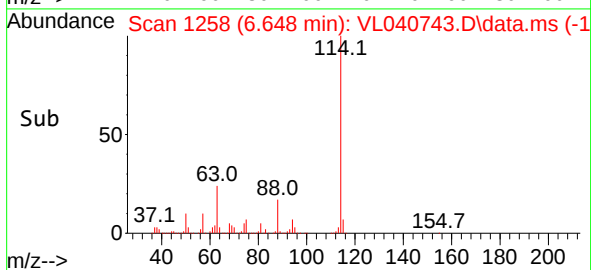
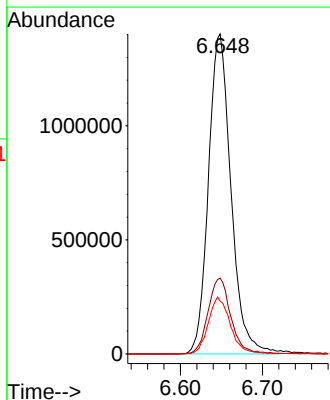
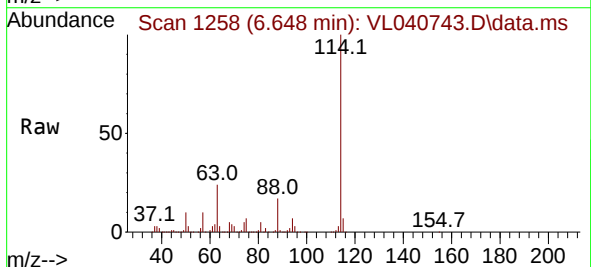
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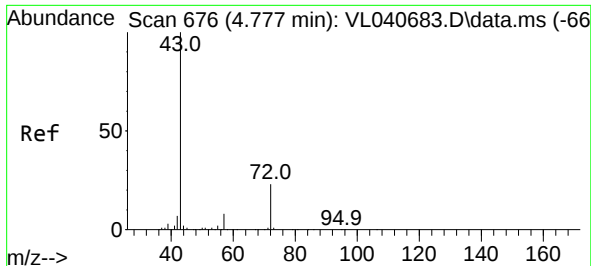
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. -0.013 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

Tgt Ion:114 Resp: 2675255
Ion Ratio Lower Upper
114 100
63 24.1 21.1 31.7
88 17.5 14.5 21.7





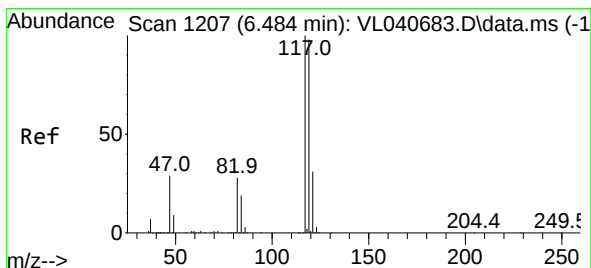
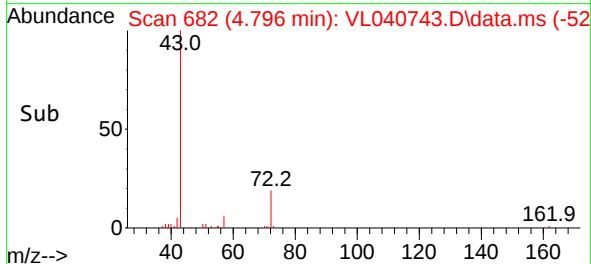
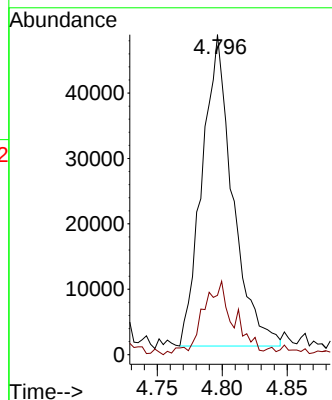
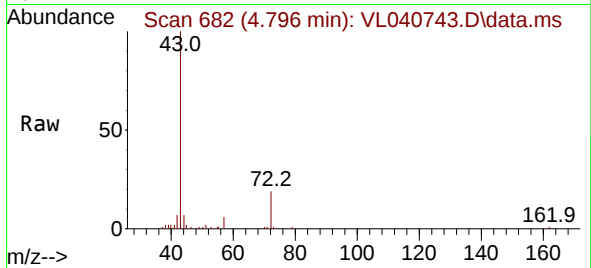
#34
2-Butanone
Concen: 0.580 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 7804
Ion Ratio Lower Upper
43 100
72 24.6 18.6 27.8

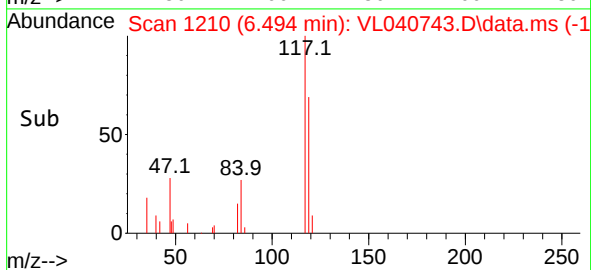
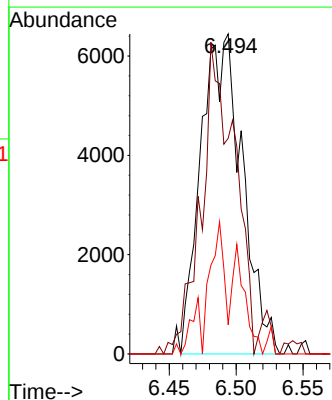
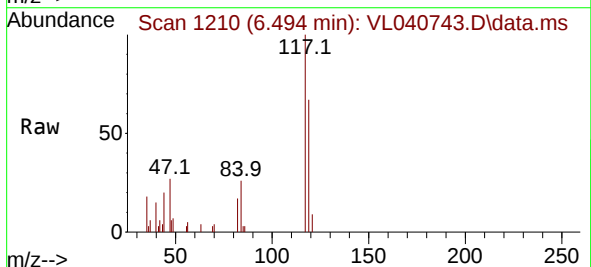
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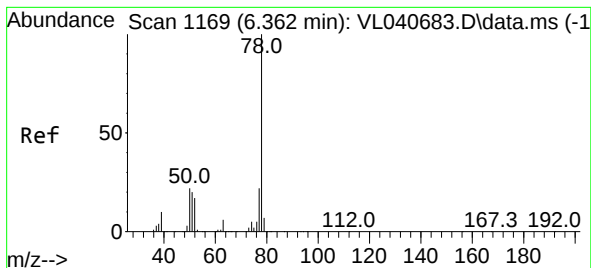
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 6.494 min Scan# 1210
Delta R.T. -0.010 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

Tgt Ion:117 Resp: 13913
Ion Ratio Lower Upper
117 100
119 67.4 78.6 117.8#
121 9.1 24.7 37.1#





#36

Benzene

Concen: 0.560 ppbv

RT: 6.369 min Scan# 11101

Delta R.T. -0.013 min

Lab File: VL040743.D

Acq: 4 Oct 2023 16:54

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

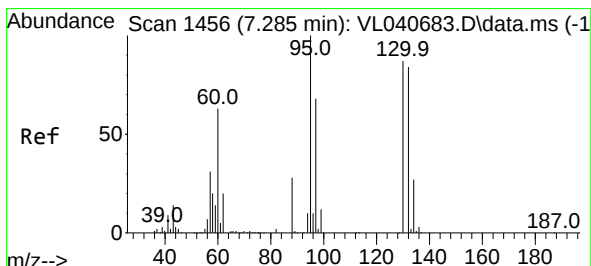
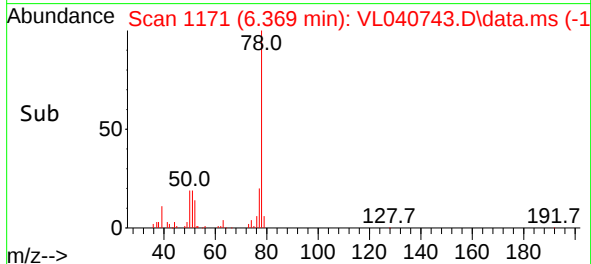
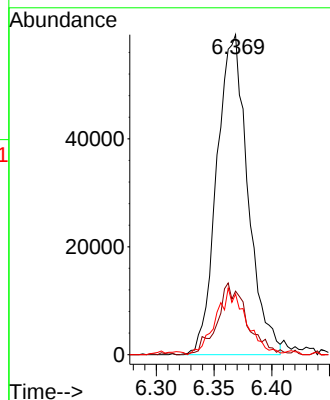
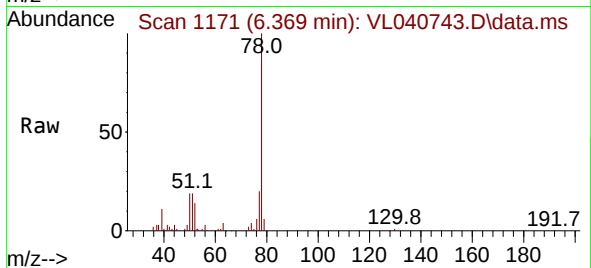
Tgt Ion: 78 Resp: 11101

Ion	Ratio	Lower	Upper
78	100		
77	19.9	17.9	26.9
50	18.4	17.3	25.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#38

Trichloroethene

Concen: 0.056 ppbv m

RT: 7.285 min Scan# 1456

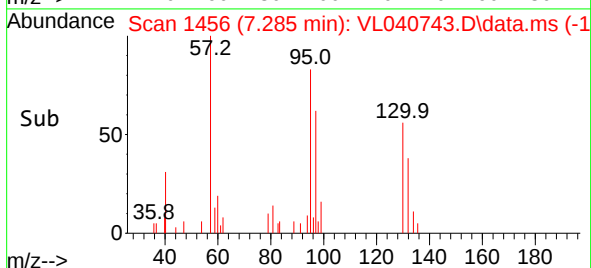
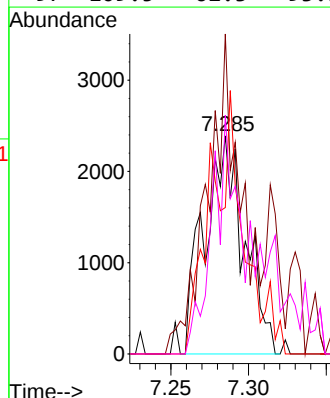
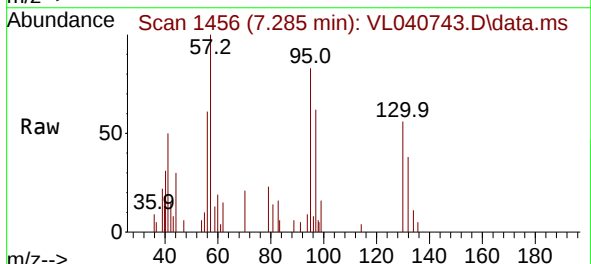
Delta R.T. -0.016 min

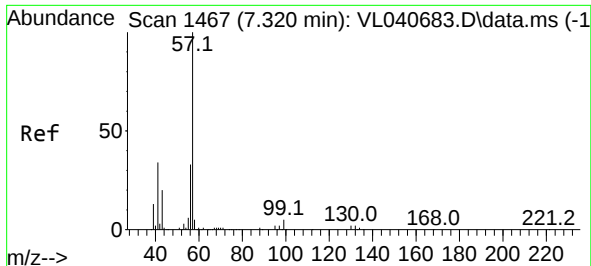
Lab File: VL040743.D

Acq: 4 Oct 2023 16:54

Tgt Ion:130 Resp: 4266

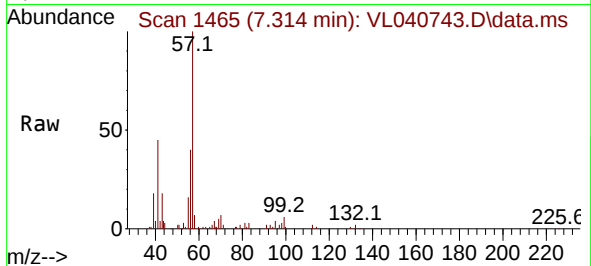
Ion	Ratio	Lower	Upper
130	100		
95	146.8	91.9	137.9#
132	67.1	77.3	115.9#
97	109.5	62.3	93.5#





#44
2,2,4-Trimethylpentane
Concen: 0.383 ppbv m
RT: 7.314 min Scan# 1465
Delta R.T. -0.022 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

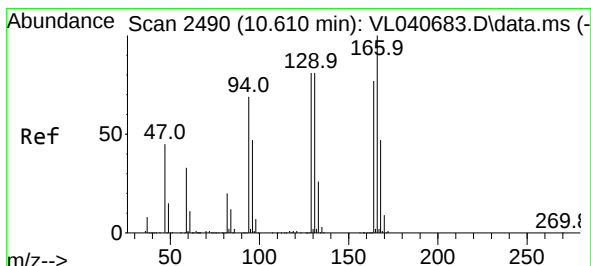
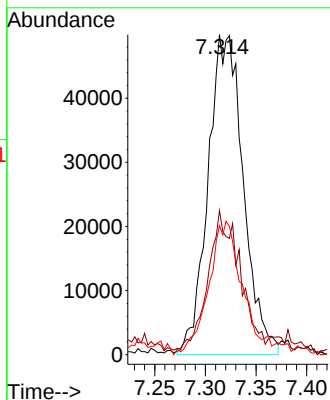
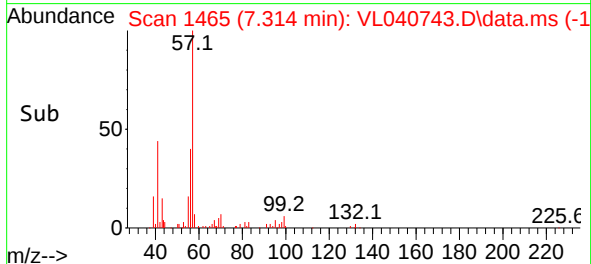
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



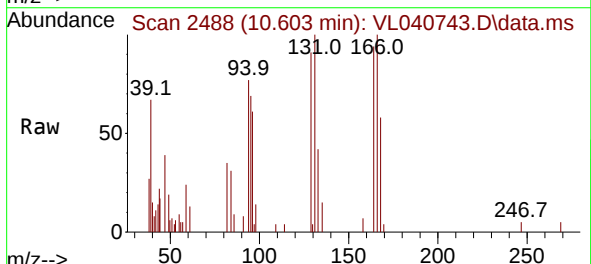
Tgt Ion: 57 Resp: 12095
Ion Ratio Lower Upper
57 100
41 0.0 28.5 42.7
56 40.9 25.4 38.2

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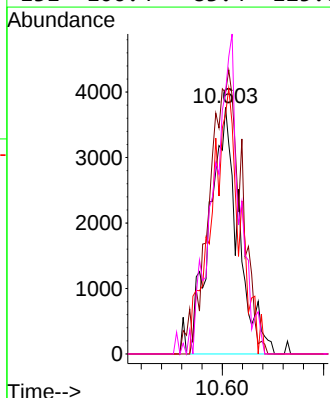
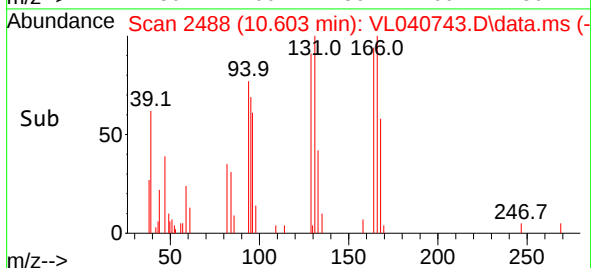
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

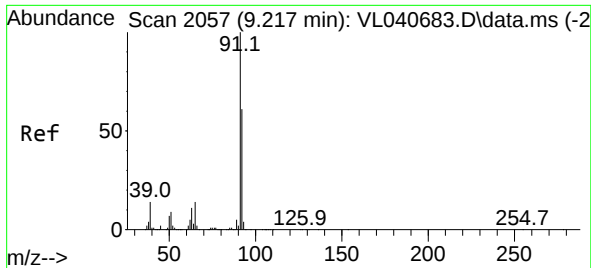


#52
Tetrachloroethene
Concen: 0.116 ppbv m
RT: 10.603 min Scan# 2488
Delta R.T. -0.022 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54



Tgt Ion:164 Resp: 7497
Ion Ratio Lower Upper
164 100
166 106.0 103.4 155.2
129 97.3 83.5 125.3
131 106.4 83.4 125.0





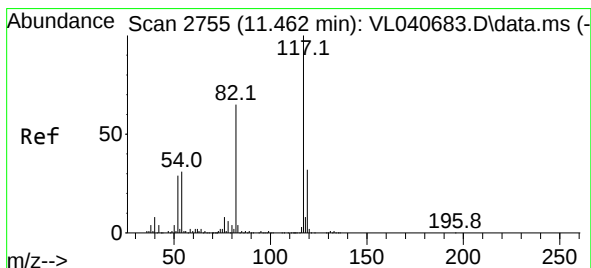
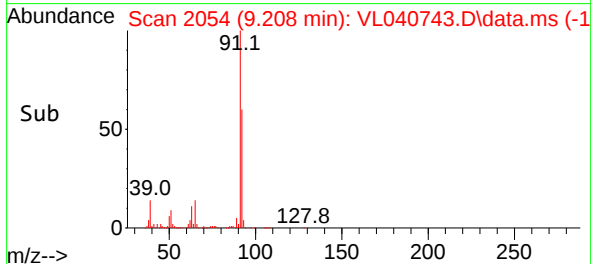
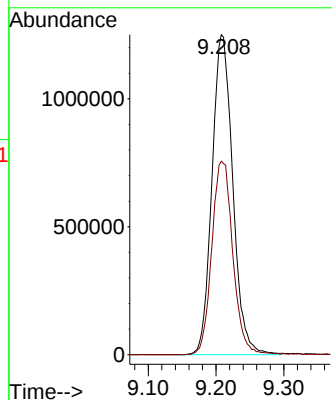
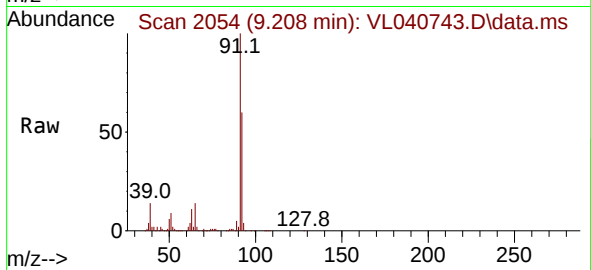
#53
Toluene
Concen: 12.722 ppbv
RT: 9.208 min Scan# 2057
Delta R.T. -0.022 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 266077
Ion Ratio Lower Upper
91 100
92 61.6 48.5 72.7

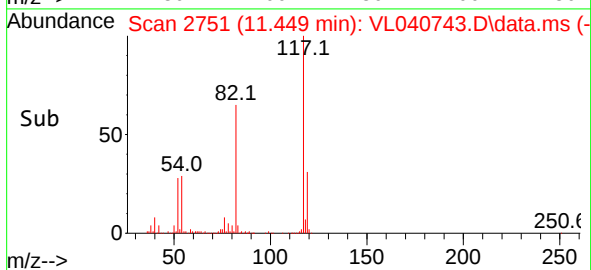
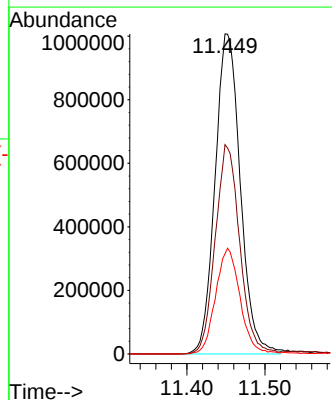
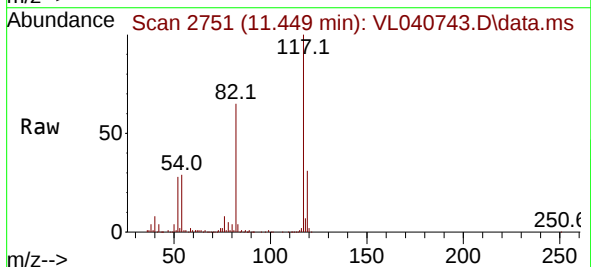
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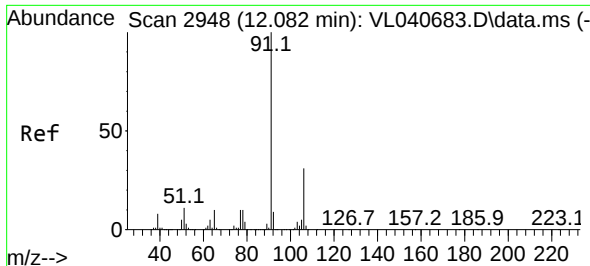
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. -0.029 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

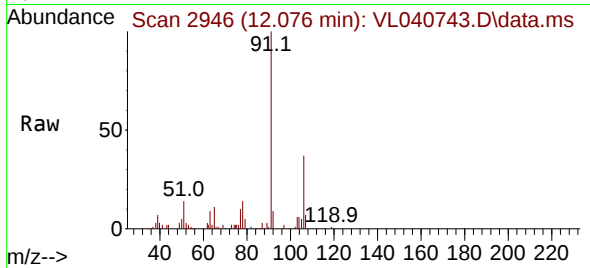
Tgt Ion:117 Resp: 2269128
Ion Ratio Lower Upper
117 100
82 63.5 51.4 77.0
119 32.3 24.7 37.1





#58
Ethyl Benzene
Concen: 0.334 ppbv m
RT: 12.076 min Scan# 2946
Delta R.T. -0.026 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

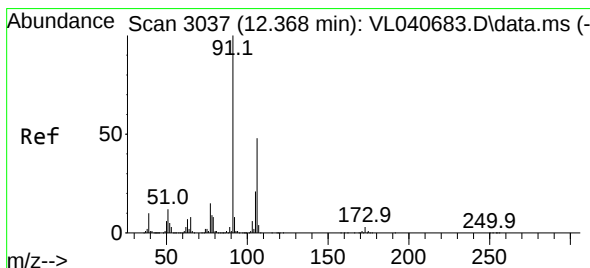
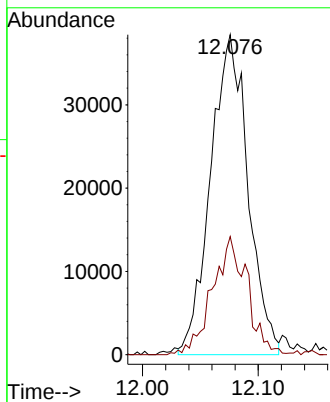
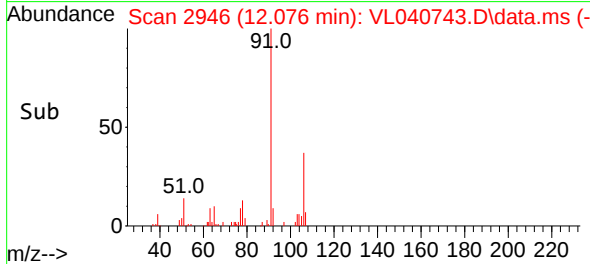
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



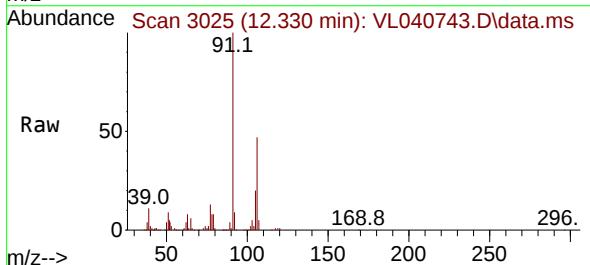
Tgt Ion: 91 Resp: 86350
Ion Ratio Lower Upper
91 100
106 36.9 24.7 37.1

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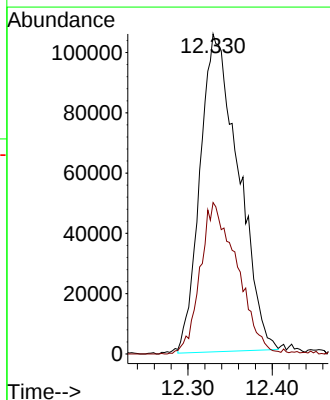
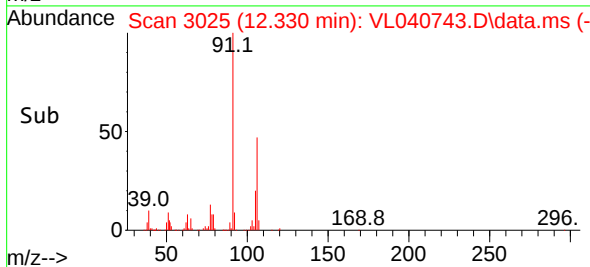
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

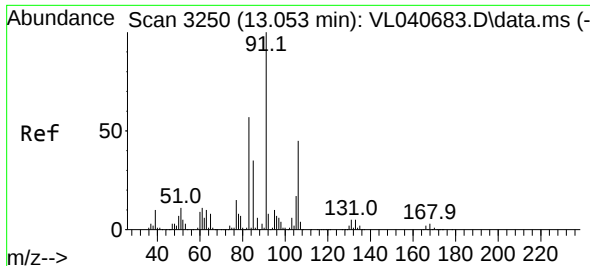


#59
m/p-Xylene
Concen: 1.371 ppbv
RT: 12.330 min Scan# 3025
Delta R.T. -0.051 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54



Tgt Ion: 91 Resp: 333026
Ion Ratio Lower Upper
91 100
106 45.9 34.8 52.2





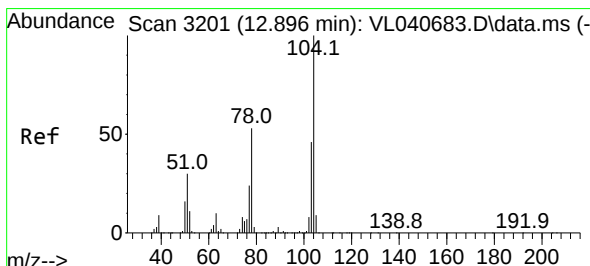
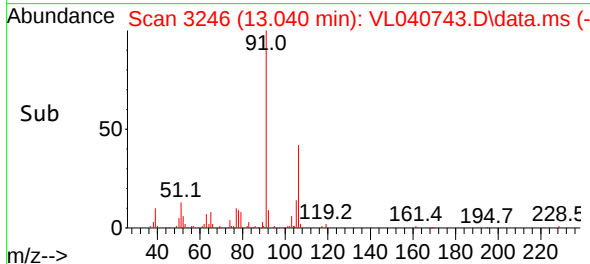
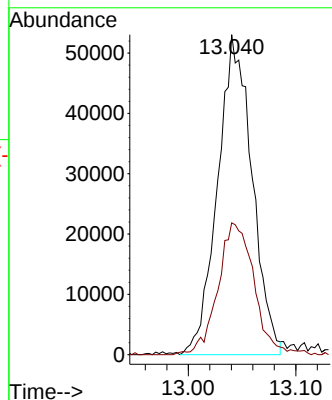
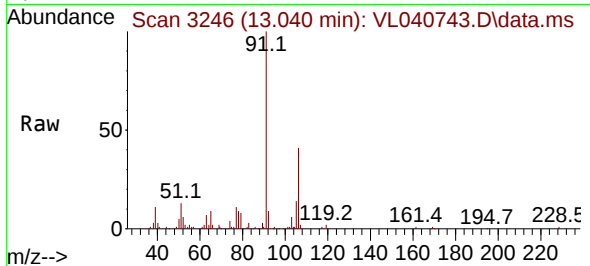
#60
o-Xylene
Concen: 0.508 ppbv
RT: 13.040 min Scan# 3195
Delta R.T. -0.029 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 11778
Ion Ratio Lower Upper
91 100
106 43.6 22.3 66.9

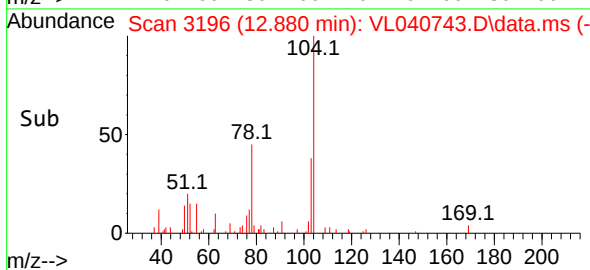
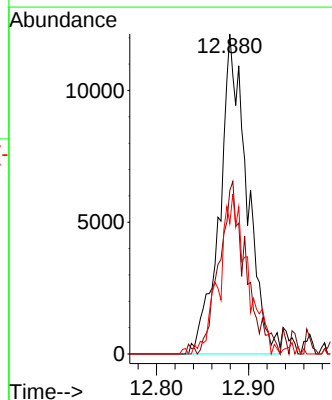
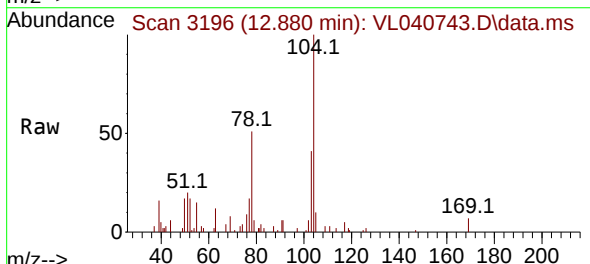
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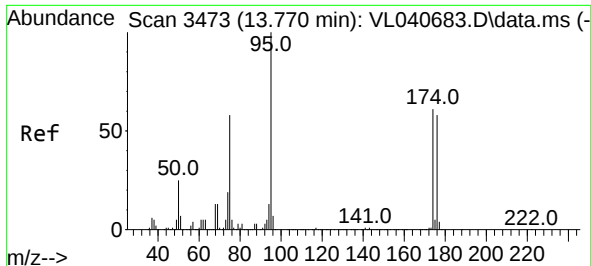
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023



#61
Styrene
Concen: 0.258 ppbv m
RT: 12.880 min Scan# 3196
Delta R.T. -0.026 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

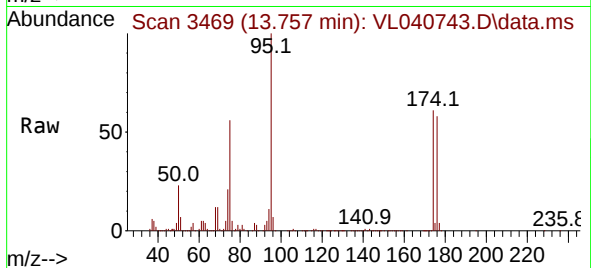
Tgt Ion:104 Resp: 25009
Ion Ratio Lower Upper
104 100
78 0.0 43.4 65.0#
103 0.0 37.2 55.8#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.835 ppbv
RT: 13.757 min Scan# 3473
Delta R.T. -0.029 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54

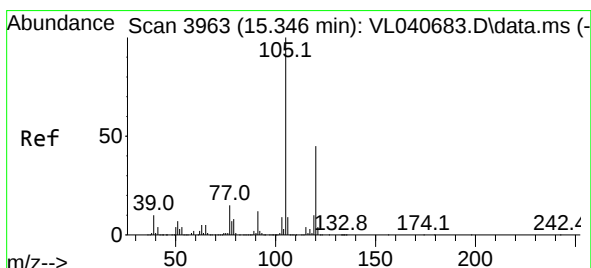
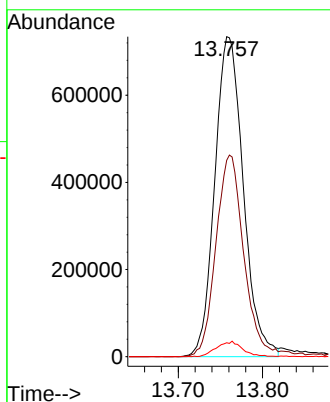
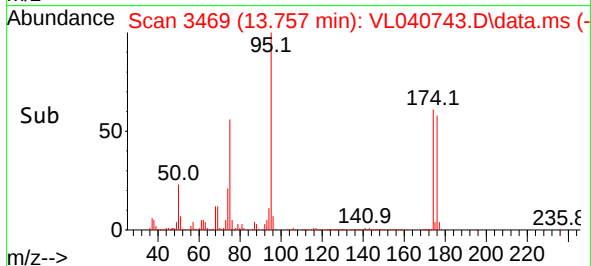
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



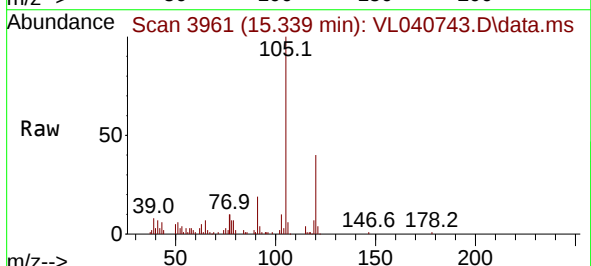
Tgt Ion: 95 Resp: 172422
Ion Ratio Lower Upper
95 100
174 62.3 48.9 73.3
175 4.5 3.5 5.3

Manual Integrations
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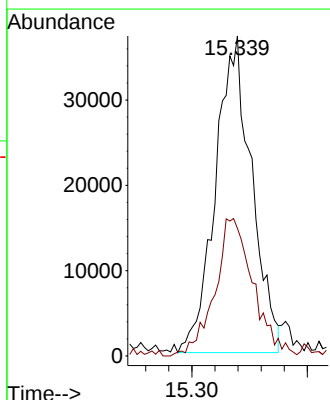
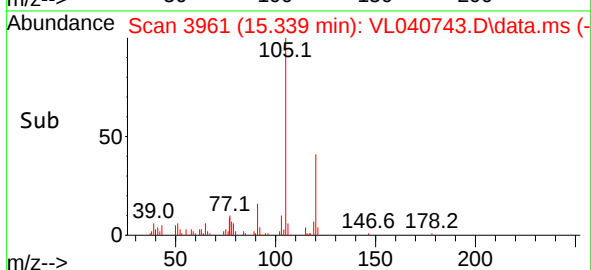
Reviewed By :Semsettin Yesilyurt 10/05/2023
Supervised By :Mahesh Dadoda 10/05/2023

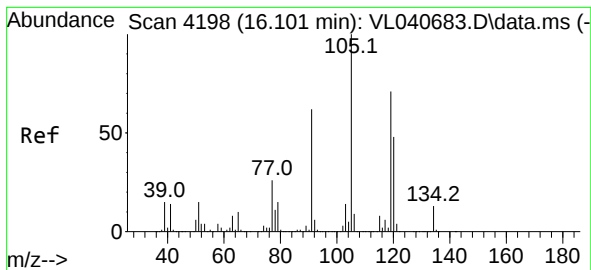


#73
1,3,5-Trimethylbenzene
Concen: 0.345 ppbv
RT: 15.339 min Scan# 3961
Delta R.T. -0.022 min
Lab File: VL040743.D
Acq: 4 Oct 2023 16:54



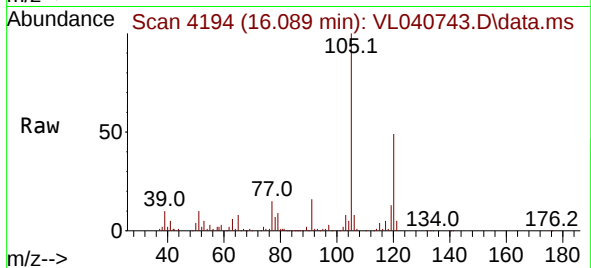
Tgt Ion:105 Resp: 80735
Ion Ratio Lower Upper
105 100
120 39.1 36.1 54.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.944 ppbv
 RT: 16.089 min Scan# 4194
 Delta R.T. -0.029 min
 Lab File: VL040743.D
 Acq: 4 Oct 2023 16:54

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



Tgt Ion:105 Resp: 26908

Ion	Ratio	Lower	Upper
105	100		
120	49.1	38.6	57.8
91	15.3	50.0	75.0
77	14.9	20.6	31.0

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/05/2023
 Supervised By :Mahesh Dadoda 10/05/2023

