

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040705.D
 Acq On : 18 Sep 2023 19:03
 Operator : SY/MD
 Sample : 04402-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023

Quant Time: Sep 19 05:20:54 2023

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

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

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	5.198	49	982723	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2570390	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2118160	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1626680	9.940	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	105871	0.489	ppbv	98
3) Chlorodifluoromethane	2.674	51	60582m	0.378	ppbv	
4) Chloromethane	2.813	50	35975	0.587	ppbv #	86
9) Propene	2.706	41	39626	0.859	ppbv	85
10) Heptane	7.584	43	33705m	0.324	ppbv	
11) Trichlorofluoromethane	3.565	101	44387	0.233	ppbv	85
13) Ethanol	3.243	45	231981m	16.993	ppbv	
15) Acetone	3.472	43	1148723	8.862	ppbv	97
19) Isopropyl Alcohol	3.587	45	114030	1.460	ppbv #	1
20) Methylene Chloride	3.938	84	2478783	35.529	ppbv	98
26) Hexane	5.221	57	1801437	18.223	ppbv #	39
29) Chloroform	5.285	83	17264m	0.101	ppbv	
30) Cyclohexane	6.607	84	11543m	0.155	ppbv	
34) 2-Butanone	4.800	43	57720m	0.447	ppbv	
35) Carbon Tetrachloride	6.500	117	11426m	0.065	ppbv	
36) Benzene	6.382	78	113231m	0.595	ppbv	
44) 2,2,4-Trimethylpentane	7.340	57	320966	1.059	ppbv #	86
52) Tetrachloroethene	10.613	164	2092m	0.034	ppbv	
53) Toluene	9.230	91	723227	3.599	ppbv	99
59) m/p-Xylene	12.349	91	41646m	0.184	ppbv	

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

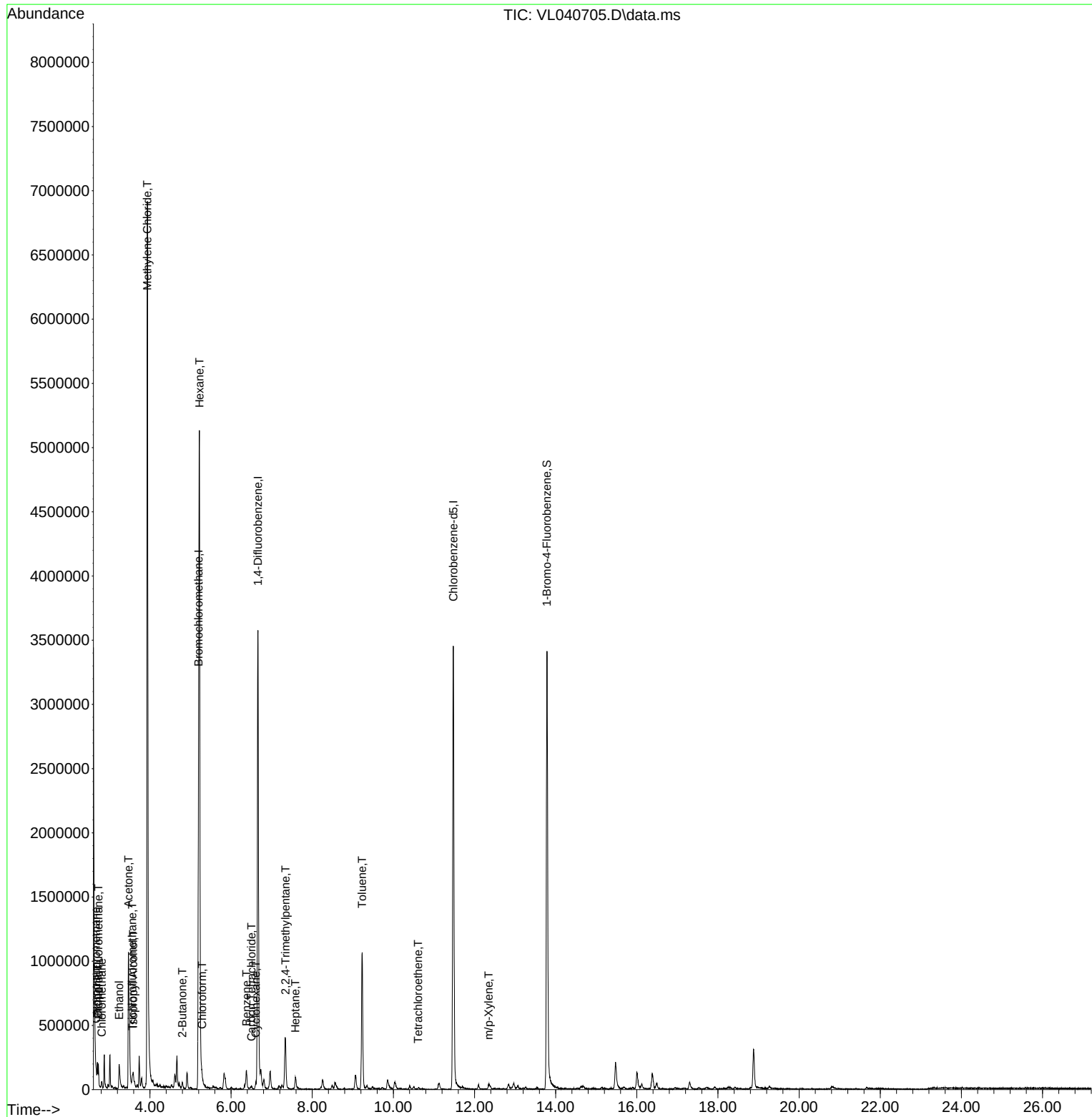
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
Data File : VL040705.D
Acq On : 18 Sep 2023 19:03
Operator : SY/MD
Sample : 04402-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

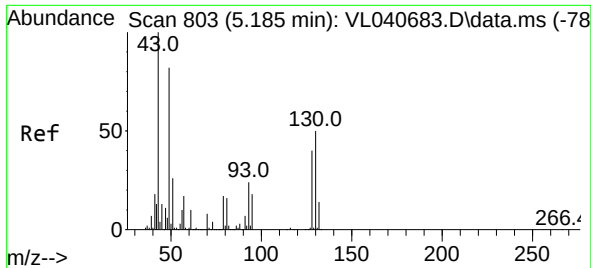
Instrument :
MSVOA_L
ClientSampleId :
ST-5

Quant Time: Sep 19 05:20:54 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 19 05:12:43 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2023
Supervised By : Mahesh Dadoda 09/19/2023





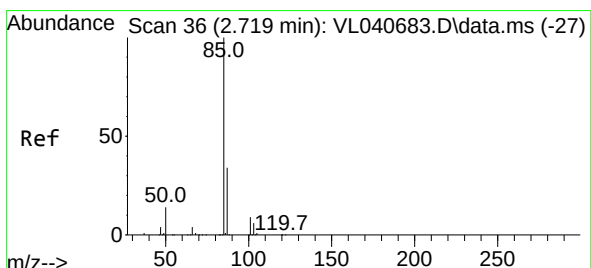
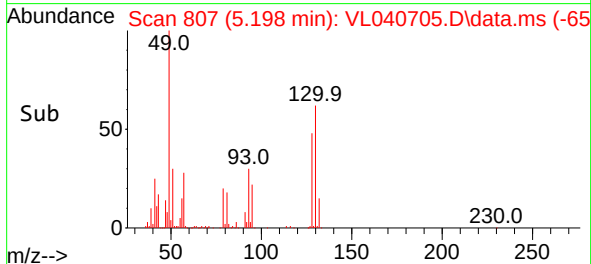
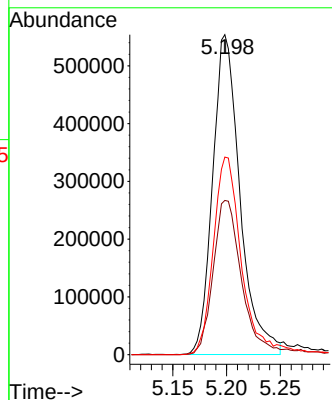
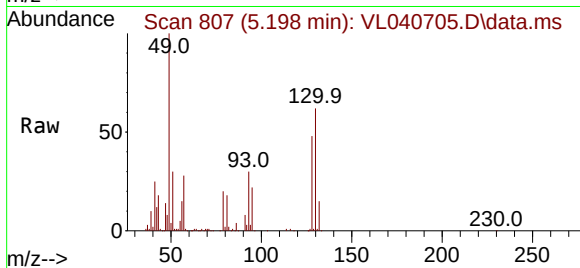
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Instrument :
MSVOA_L
ClientSampleId :
ST-5

Tgt Ion: 49 Resp: 98272
Ion Ratio Lower Upper
49 100
128 51.9 25.4 76.0
130 65.1 32.3 96.8

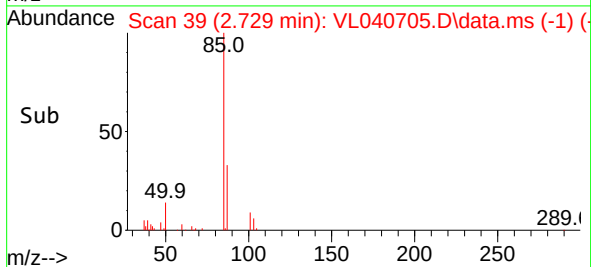
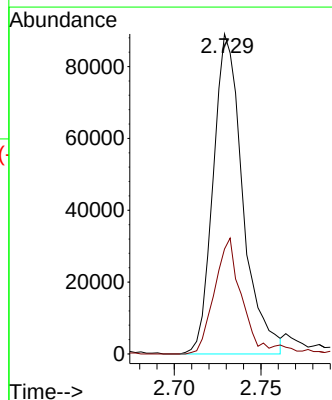
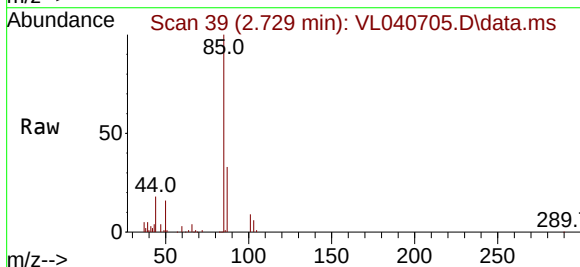
Manual Integrations
APPROVED

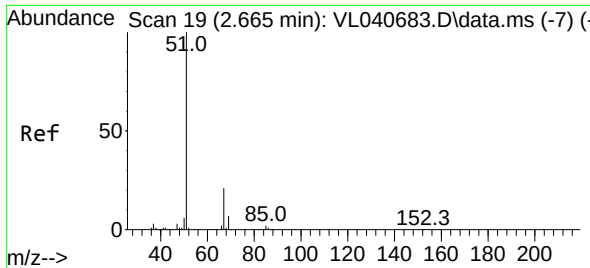
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#2
Dichlorodifluoromethane
Concen: 0.489 ppbv
RT: 2.729 min Scan# 39
Delta R.T. -0.003 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Tgt Ion: 85 Resp: 105871
Ion Ratio Lower Upper
85 100
87 32.8 27.2 40.8





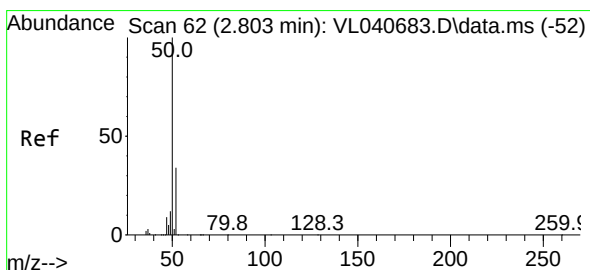
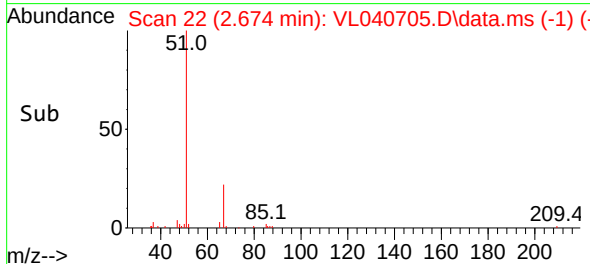
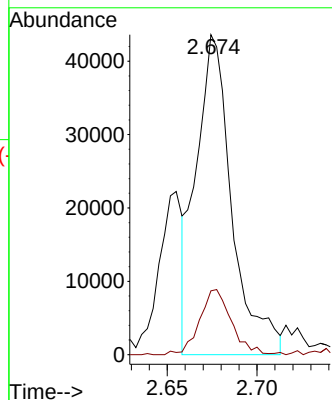
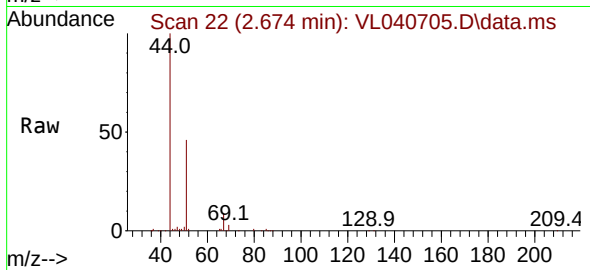
#3
Chlorodifluoromethane
Concen: 0.378 ppbv m
RT: 2.674 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Instrument :
MSVOA_L
ClientSampleId :
ST-5

Tgt Ion: 51 Resp: 60582
Ion Ratio Lower Upper
51 100
67 18.2 16.7 25.1

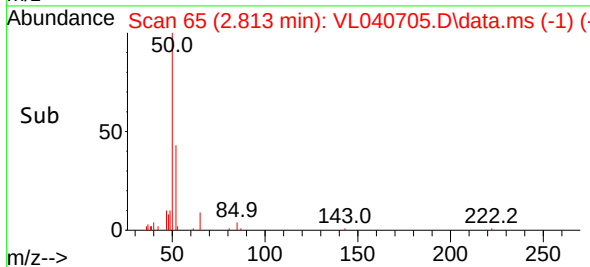
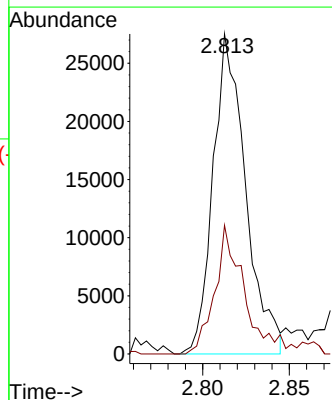
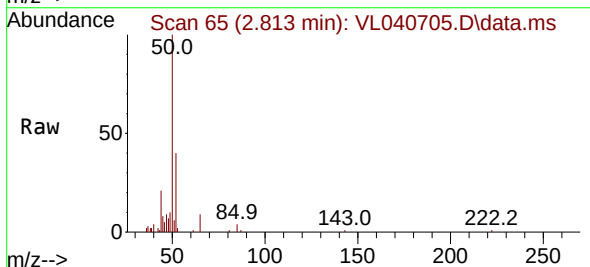
Manual Integrations
APPROVED

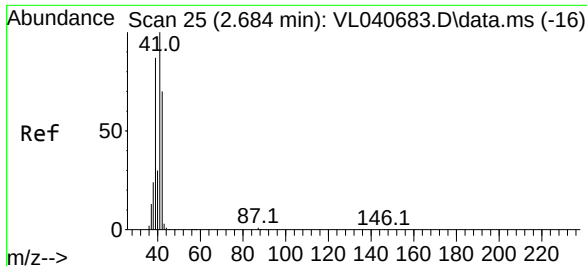
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#4
Chloromethane
Concen: 0.587 ppbv
RT: 2.813 min Scan# 65
Delta R.T. -0.003 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

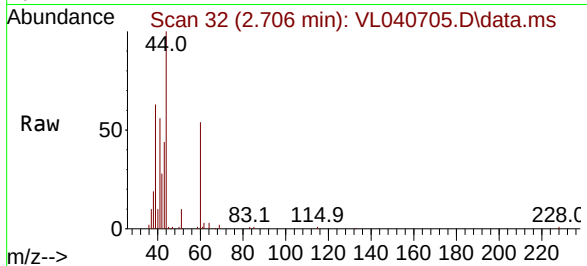
Tgt Ion: 50 Resp: 35975
Ion Ratio Lower Upper
50 100
52 41.9 27.1 40.7#





#9
 Propene
 Concen: 0.859 ppbv
 RT: 2.706 min Scan# 31
 Delta R.T. 0.010 min
 Lab File: VL040705.D
 Acq: 18 Sep 2023 19:03

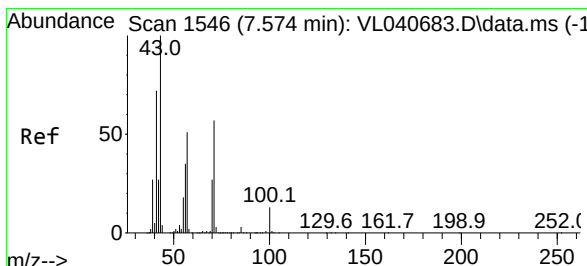
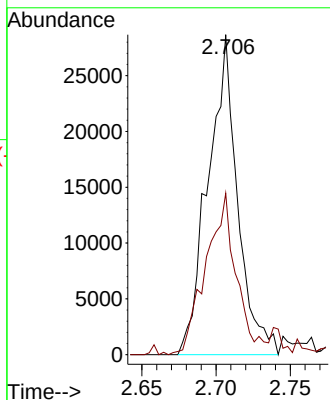
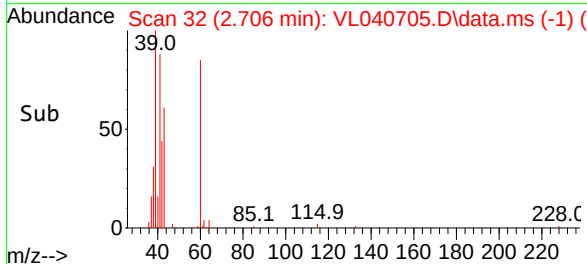
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-5



Tgt Ion: 41 Resp: 39620
 Ion Ratio Lower Upper
 41 100
 42 58.4 56.7 85.1

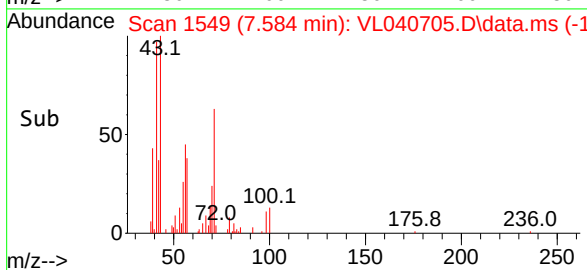
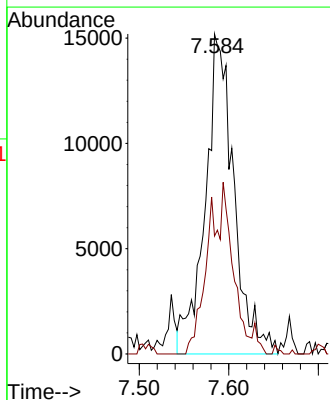
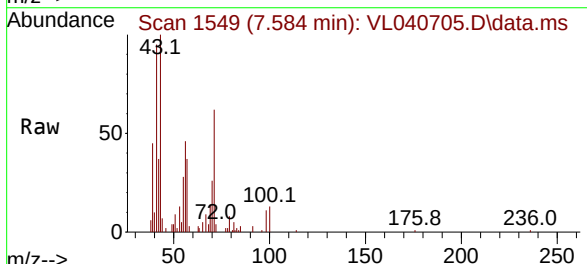
Manual Integrations
 APPROVED

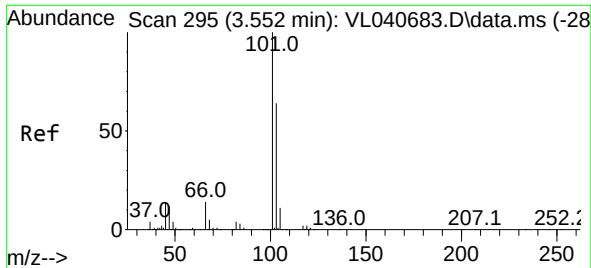
Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023



#10
 Heptane
 Concen: 0.324 ppbv m
 RT: 7.584 min Scan# 1549
 Delta R.T. -0.003 min
 Lab File: VL040705.D
 Acq: 18 Sep 2023 19:03

Tgt Ion: 43 Resp: 33705
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.8 62.6#





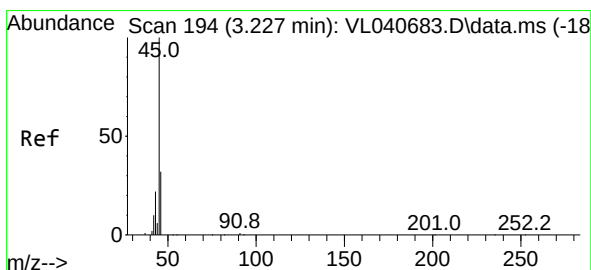
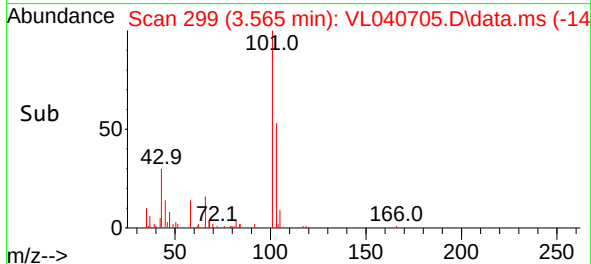
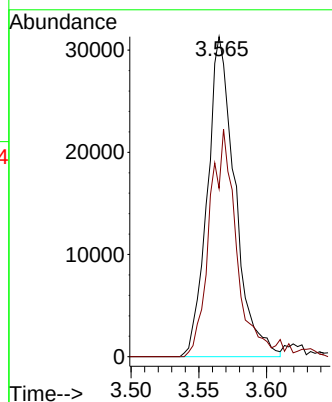
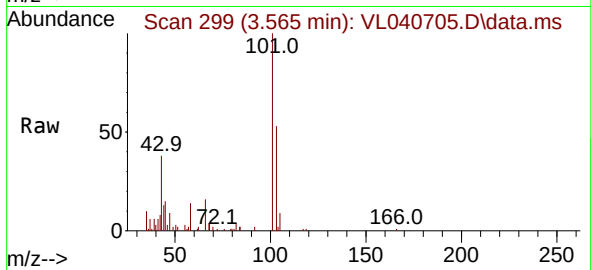
#11
Trichlorofluoromethane
Concen: 0.233 ppbv
RT: 3.565 min Scan# 295
Delta R.T. -0.003 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Instrument :
MSVOA_L
ClientSampleId :
ST-5

Tgt Ion:101 Resp: 4438
Ion Ratio Lower Upper
101 100
103 52.6 51.3 76.9

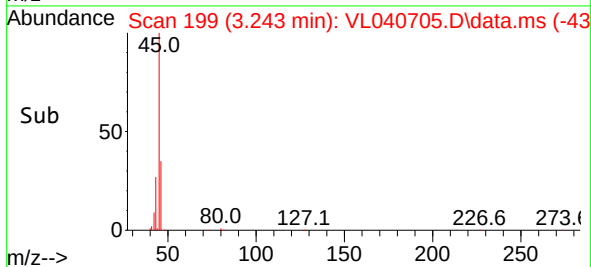
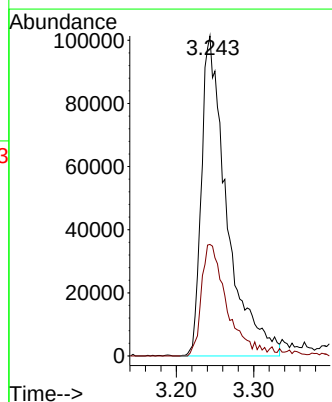
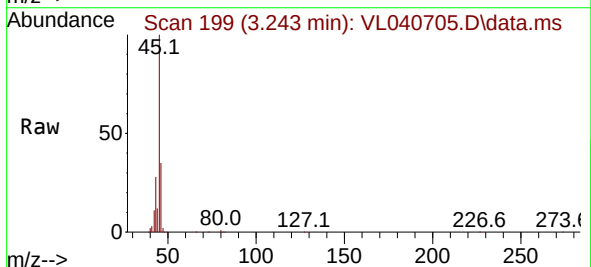
Manual Integrations
APPROVED

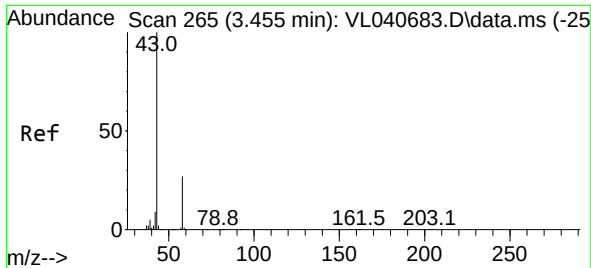
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#13
Ethanol
Concen: 16.993 ppbv m
RT: 3.243 min Scan# 199
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Tgt Ion: 45 Resp: 231981
Ion Ratio Lower Upper
45 100
46 37.3 15.2 61.0





#15

Acetone

Concen: 8.862 ppbv

RT: 3.472 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL040705.D

Acq: 18 Sep 2023 19:03

Instrument :

MSVOA_L

ClientSampleId :

ST-5

Tgt Ion: 43 Resp: 114872

Ion Ratio Lower Upper

43 100

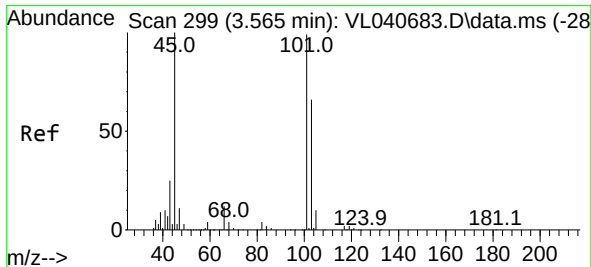
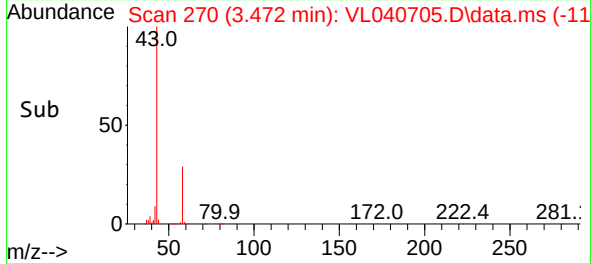
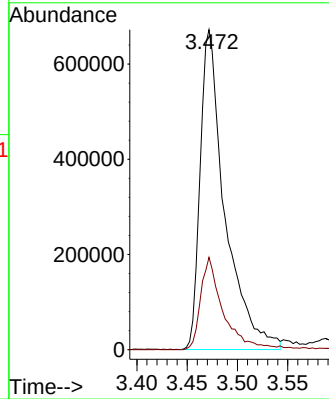
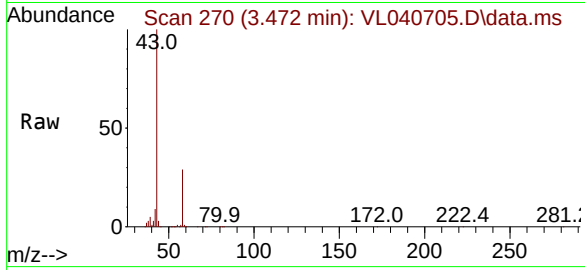
58 26.9 22.6 34.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023



#19

Isopropyl Alcohol

Concen: 1.460 ppbv

RT: 3.587 min Scan# 306

Delta R.T. 0.010 min

Lab File: VL040705.D

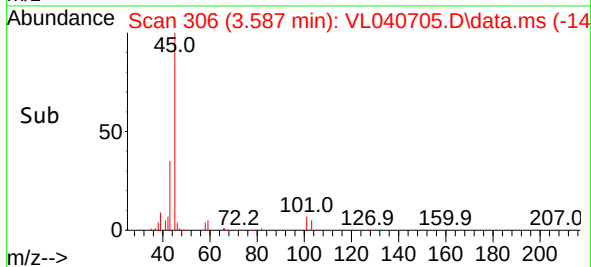
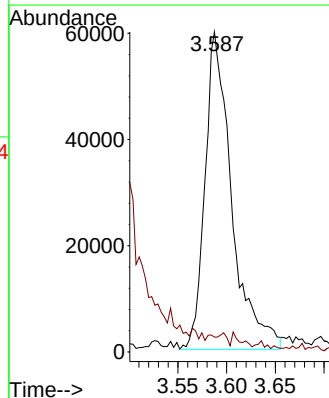
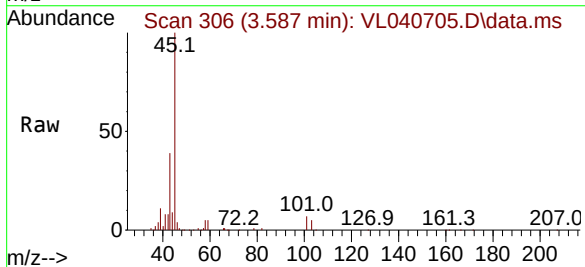
Acq: 18 Sep 2023 19:03

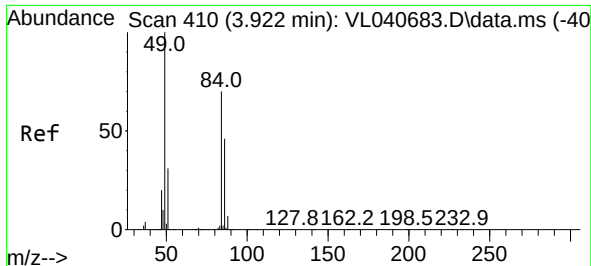
Tgt Ion: 45 Resp: 114030

Ion Ratio Lower Upper

45 100

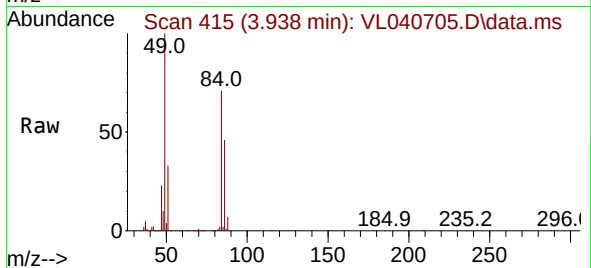
58 271.0 1.9 2.9#





#20
Methylene Chloride
Concen: 35.529 ppbv
RT: 3.938 min Scan# 410
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Instrument :
MSVOA_L
ClientSampleId :
ST-5

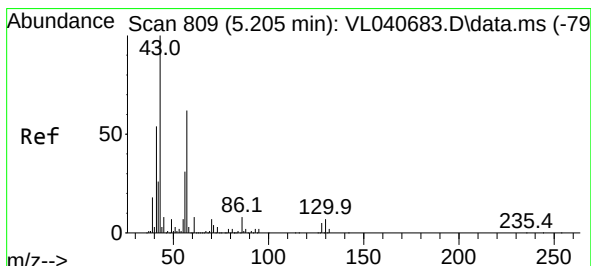
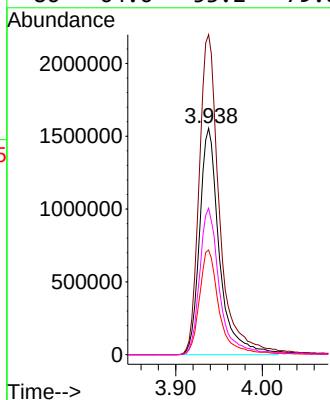
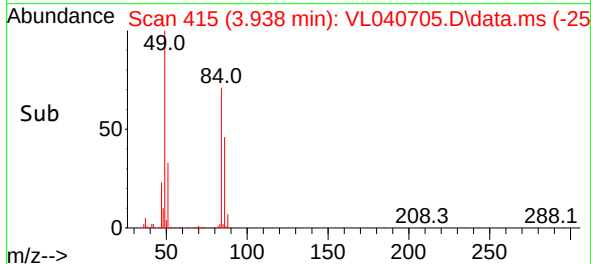


Tgt Ion: 84 Resp: 247878

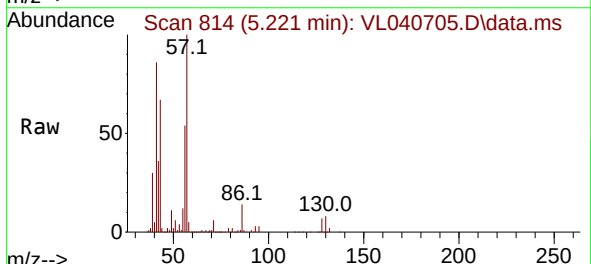
Ion	Ratio	Lower	Upper
84	100		
49	141.3	114.4	171.6
51	46.2	35.5	53.3
86	64.6	53.2	79.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

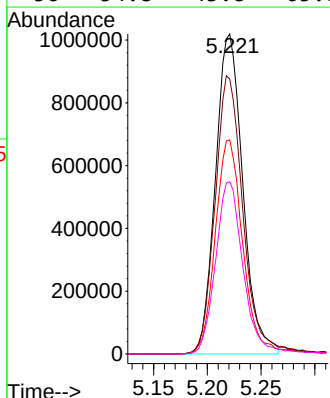
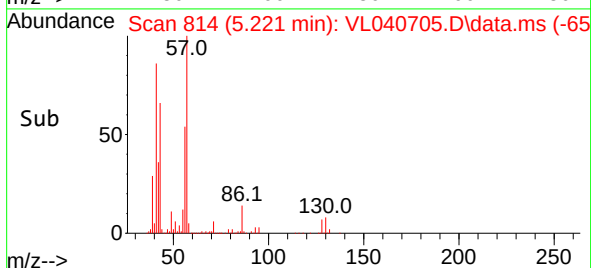


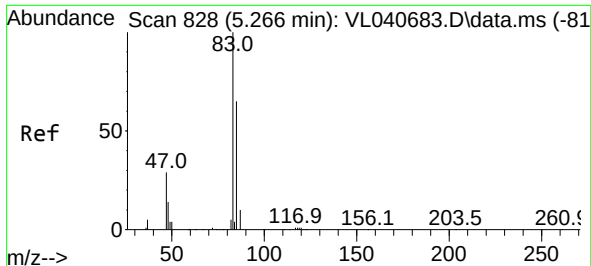
#26
Hexane
Concen: 18.223 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03



Tgt Ion: 57 Resp: 1801437

Ion	Ratio	Lower	Upper
57	100		
41	89.7	75.2	112.8
43	68.1	185.6	278.4#
56	54.8	43.8	65.8





#29

Chloroform

Concen: 0.101 ppbv m

RT: 5.285 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL040705.D

Acq: 18 Sep 2023 19:03

Instrument :

MSVOA_L

ClientSampleId :

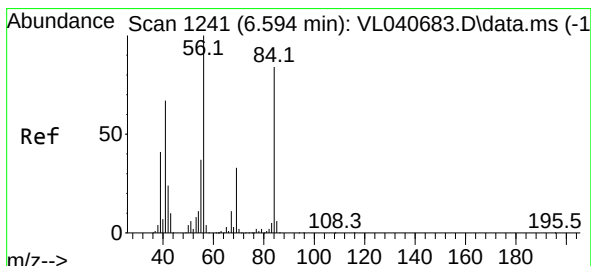
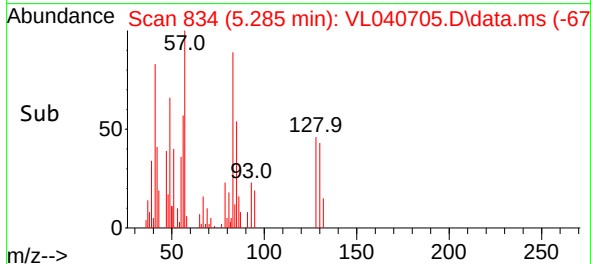
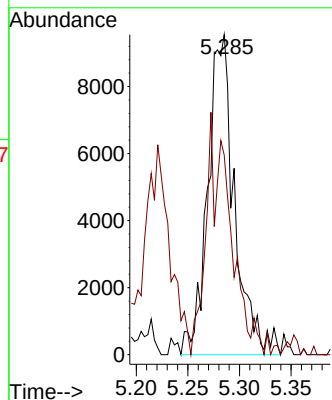
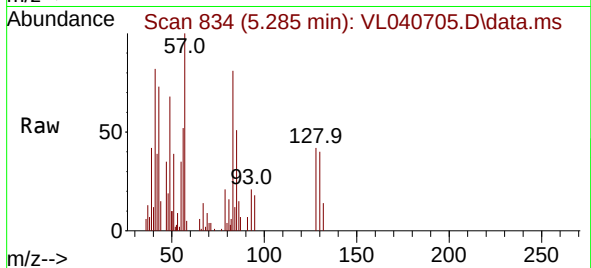
ST-5

Tgt Ion: 83 Resp: 17264
 Ion Ratio Lower Upper
 83 100
 85 62.4 51.8 77.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023



#30

Cyclohexane

Concen: 0.155 ppbv m

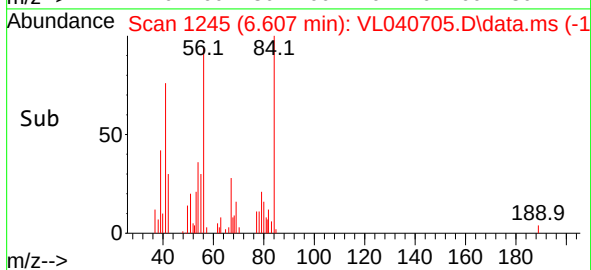
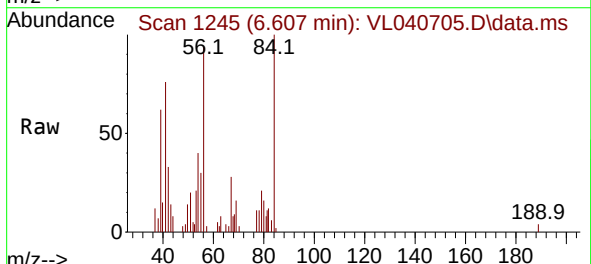
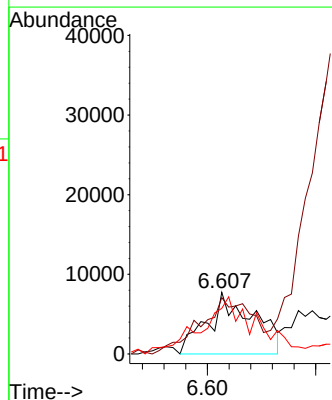
RT: 6.607 min Scan# 1245

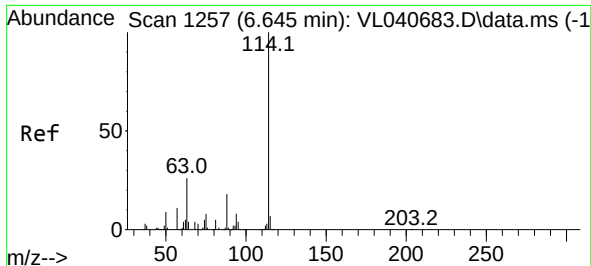
Delta R.T. -0.003 min

Lab File: VL040705.D

Acq: 18 Sep 2023 19:03

Tgt Ion: 84 Resp: 11543
 Ion Ratio Lower Upper
 84 100
 56 0.0 103.2 154.8#
 41 116.4 65.5 98.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 114

Delta R.T. 0.000 min

Lab File: VL040705.D

Acq: 18 Sep 2023 19:03

Instrument :

MSVOA_L

ClientSampleId :

ST-5

Tgt Ion:114 Resp: 2570390

Ion Ratio Lower Upper

114 100

63 25.8 21.1 31.7

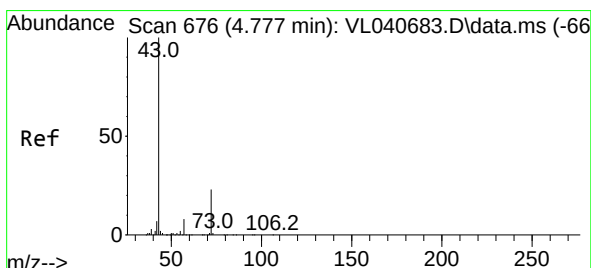
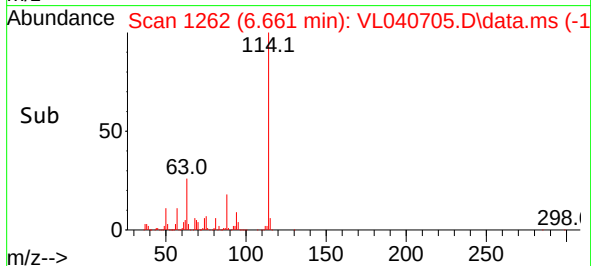
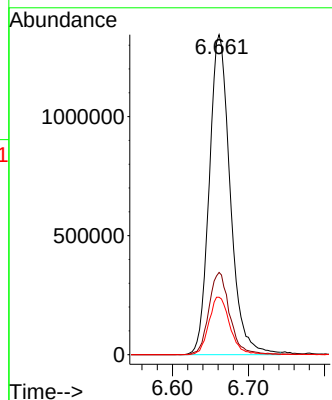
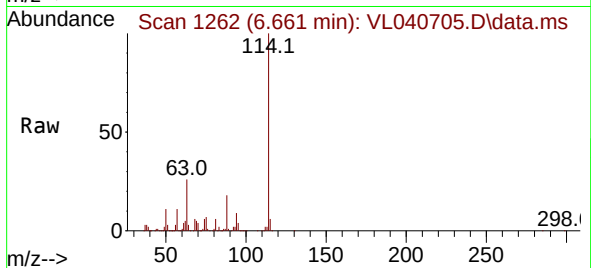
88 18.2 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023



#34

2-Butanone

Concen: 0.447 ppbv m

RT: 4.800 min Scan# 683

Delta R.T. 0.010 min

Lab File: VL040705.D

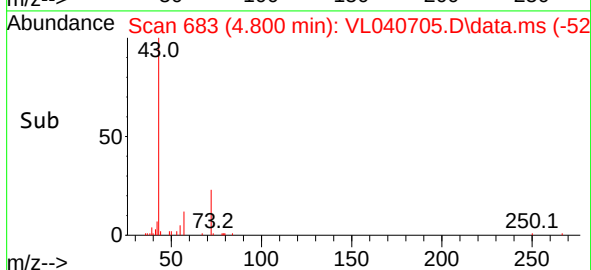
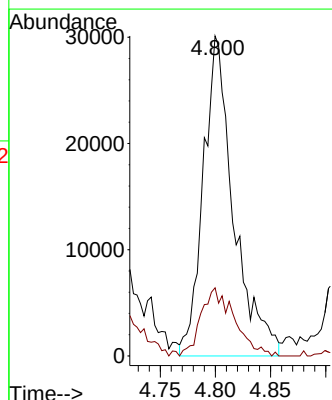
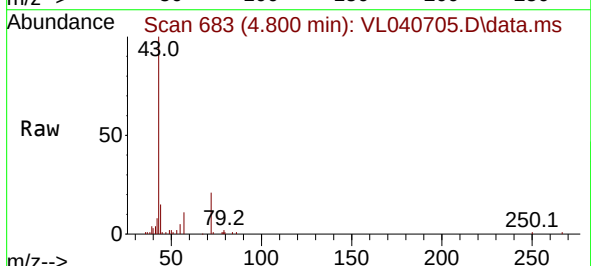
Acq: 18 Sep 2023 19:03

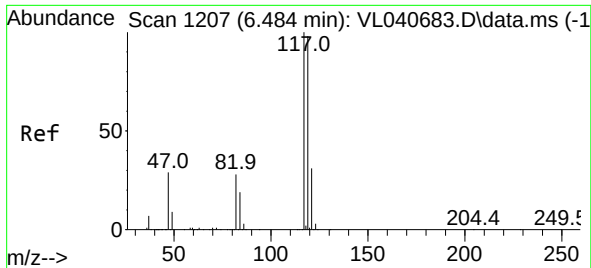
Tgt Ion: 43 Resp: 57720

Ion Ratio Lower Upper

43 100

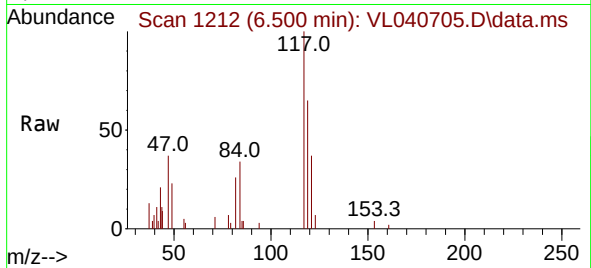
72 23.6 18.6 27.8





#35
Carbon Tetrachloride
Concen: 0.065 ppbv m
RT: 6.500 min Scan# 1142
Delta R.T. -0.003 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

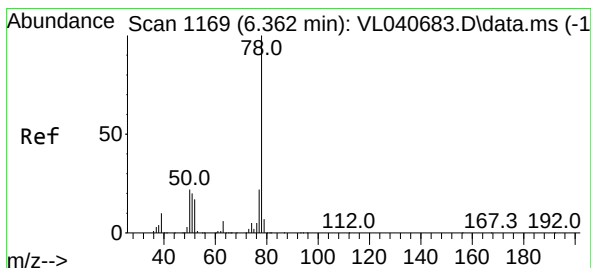
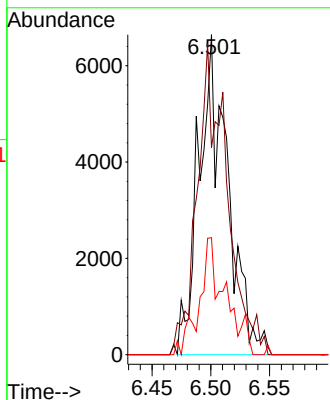
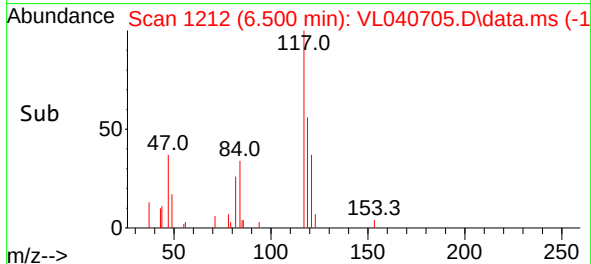
Instrument :
MSVOA_L
ClientSampleId :
ST-5



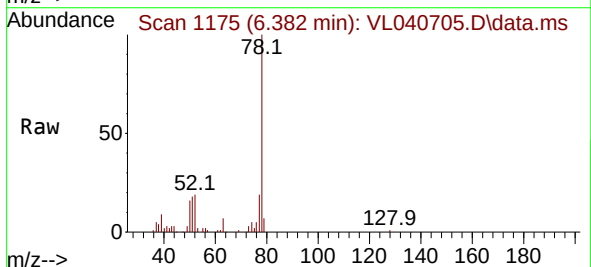
Tgt Ion: 117 Resp: 11420
Ion Ratio Lower Upper
117 100
119 64.8 78.6 117.8
121 36.5 24.7 37.1

Manual Integrations
APPROVED

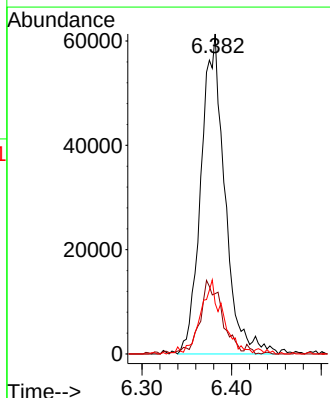
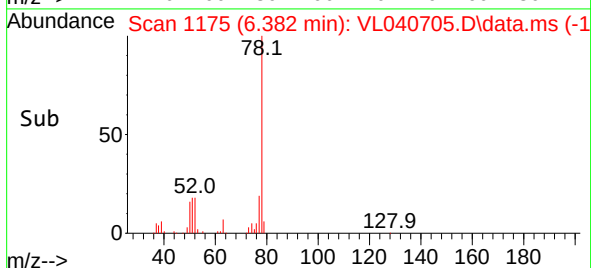
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

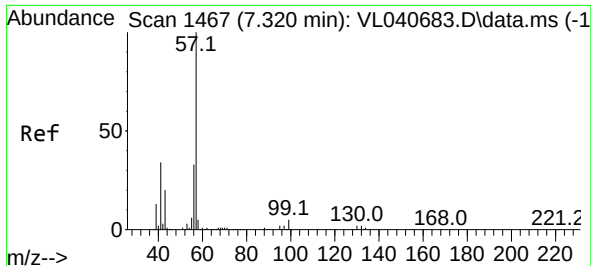


#36
Benzene
Concen: 0.595 ppbv m
RT: 6.382 min Scan# 1175
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03



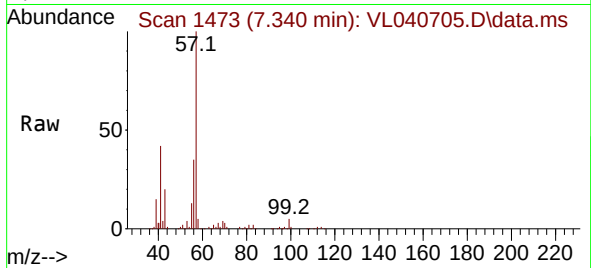
Tgt Ion: 78 Resp: 113231
Ion Ratio Lower Upper
78 100
77 18.8 17.9 26.9
50 15.8 17.3 25.9#





#44
2,2,4-Trimethylpentane
Concen: 1.059 ppbv
RT: 7.340 min Scan# 1467
Delta R.T. 0.003 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

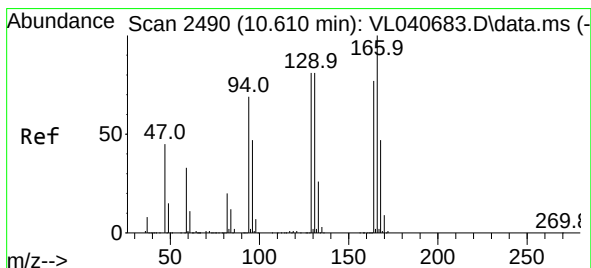
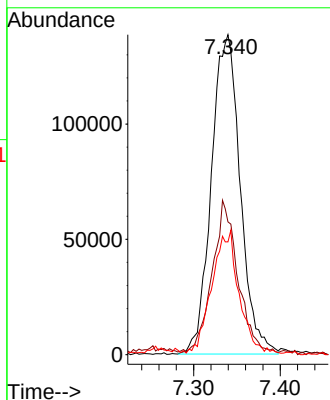
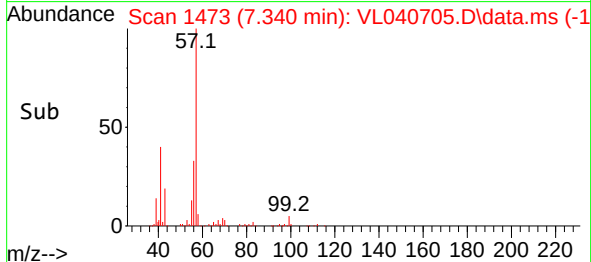
Instrument :
MSVOA_L
ClientSampleId :
ST-5



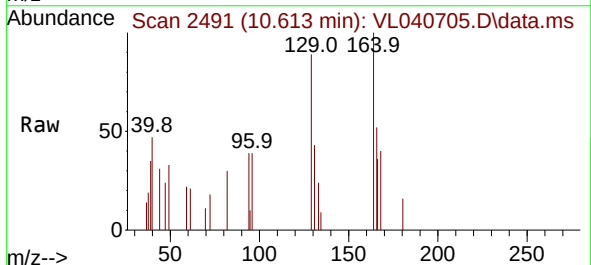
Tgt Ion: 57 Resp: 320960
Ion Ratio Lower Upper
57 100
41 43.3 28.5 42.7
56 39.9 25.4 38.2

Manual Integrations
APPROVED

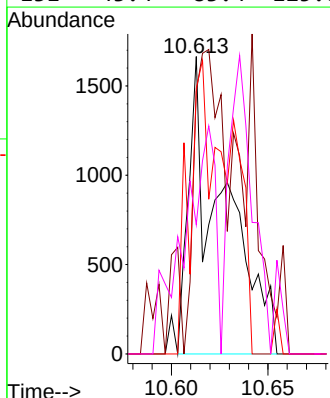
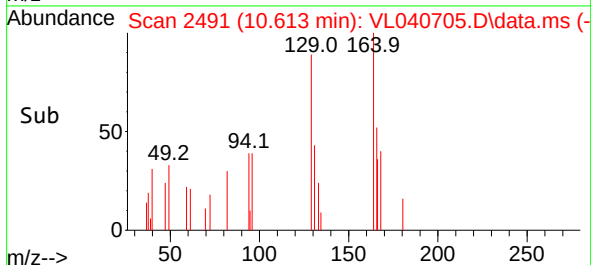
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

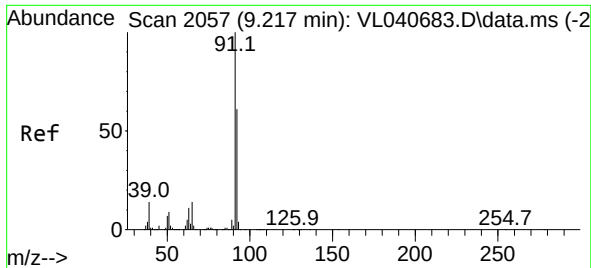


#52
Tetrachloroethene
Concen: 0.034 ppbv m
RT: 10.613 min Scan# 2491
Delta R.T. -0.013 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03



Tgt Ion:164 Resp: 2092
Ion Ratio Lower Upper
164 100
166 52.0 103.4 155.2#
129 89.3 83.5 125.3
131 43.4 83.4 125.0#





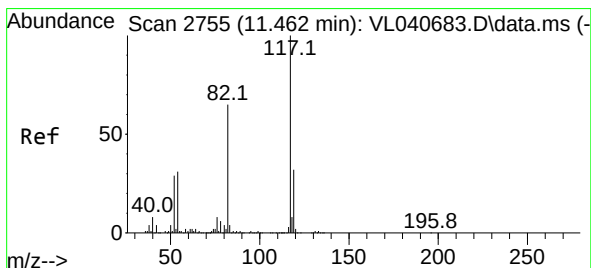
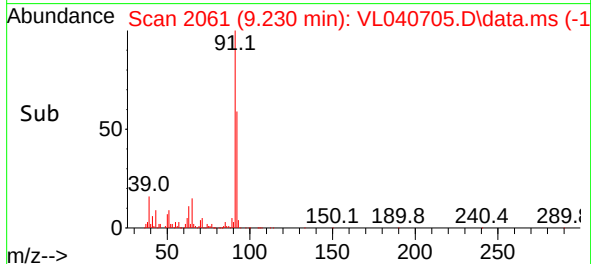
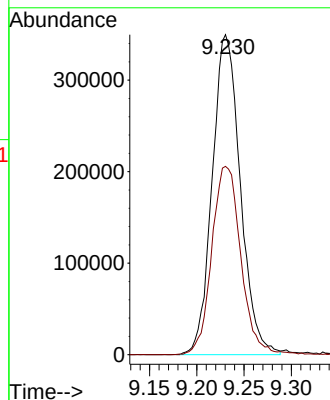
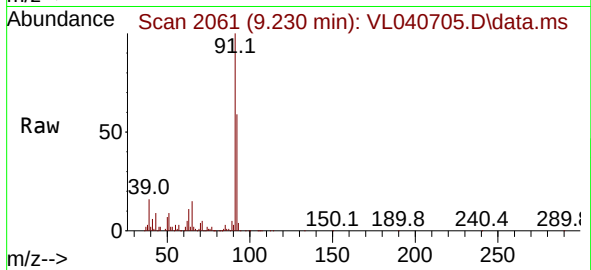
#53
Toluene
Concen: 3.599 ppbv
RT: 9.230 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Instrument :
MSVOA_L
ClientSampleId :
ST-5

Tgt Ion: 91 Resp: 72322
Ion Ratio Lower Upper
91 100
92 61.0 48.5 72.7

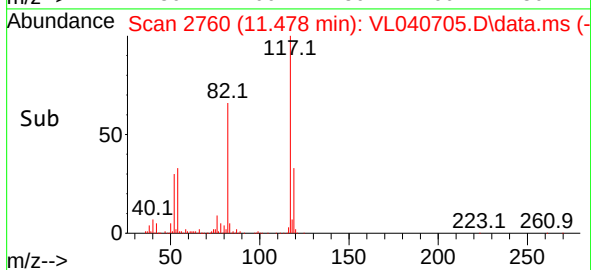
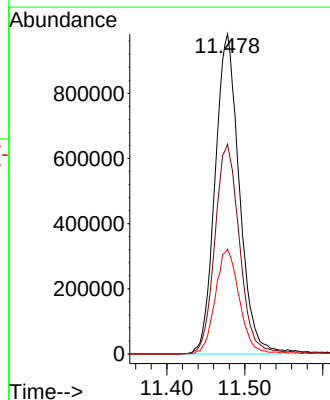
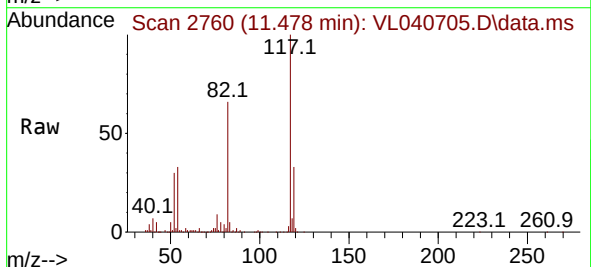
Manual Integrations
APPROVED

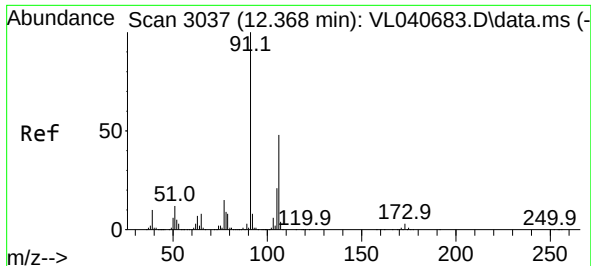
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 2760
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Tgt Ion:117 Resp: 2118160
Ion Ratio Lower Upper
117 100
82 67.6 51.4 77.0
119 33.1 24.7 37.1





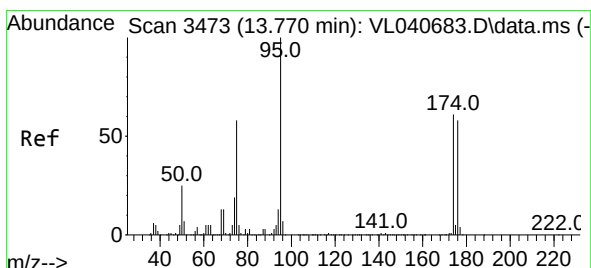
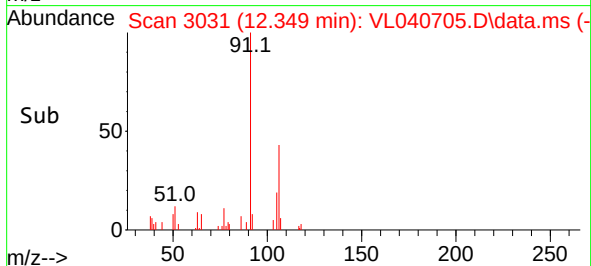
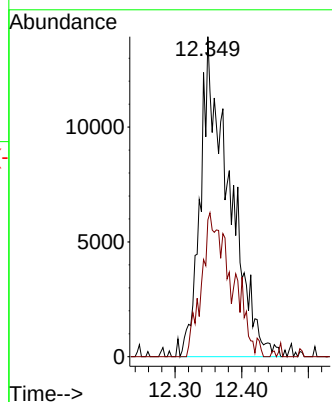
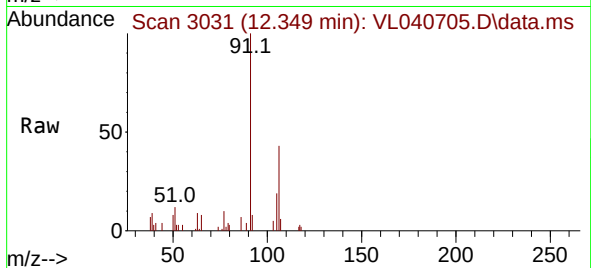
#59
m/p-Xylene
Concen: 0.184 ppbv m
RT: 12.349 min Scan# 3031
Delta R.T. -0.032 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Instrument :
MSVOA_L
ClientSampleId :
ST-5

Tgt Ion: 91 Resp: 41640
Ion Ratio Lower Upper
91 100
106 0.0 34.8 52.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.940 ppbv
RT: 13.786 min Scan# 3478
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Tgt Ion: 95 Resp: 1626680
Ion Ratio Lower Upper
95 100
174 61.4 48.9 73.3
175 4.4 3.5 5.3

