

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040702.D
 Acq On : 18 Sep 2023 17:03
 Operator : SY/MD
 Sample : 04402-02DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-3DL

Manual Integrations
 APPROVED

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

Quant Time: Sep 19 05:19:48 2023

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 18 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	5.205	49	1253486	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	3359493	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	2735591	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	2105401	9.961	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
4) Chloromethane	2.819	50	9131	0.117	ppbv #	80
9) Propene	2.706	41	15015m	0.255	ppbv	
13) Ethanol	3.243	45	409752m	23.532	ppbv	
15) Acetone	3.478	43	617138	3.733	ppbv	95
19) Isopropyl Alcohol	3.590	45	80443m	0.807	ppbv	
20) Methylene Chloride	3.941	84	882452	9.916	ppbv	97
26) Hexane	5.227	57	617535	4.898	ppbv #	38
34) 2-Butanone	4.806	43	80998m	0.479	ppbv	
36) Benzene	6.385	78	30775m	0.124	ppbv	
38) Trichloroethene	7.298	130	13397m	0.141	ppbv	
41) Tetrahydrofuran	5.581	42	34490m	0.398	ppbv	
44) 2,2,4-Trimethylpentane	7.343	57	56741m	0.143	ppbv	
53) Toluene	9.240	91	152563	0.581	ppbv	99

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

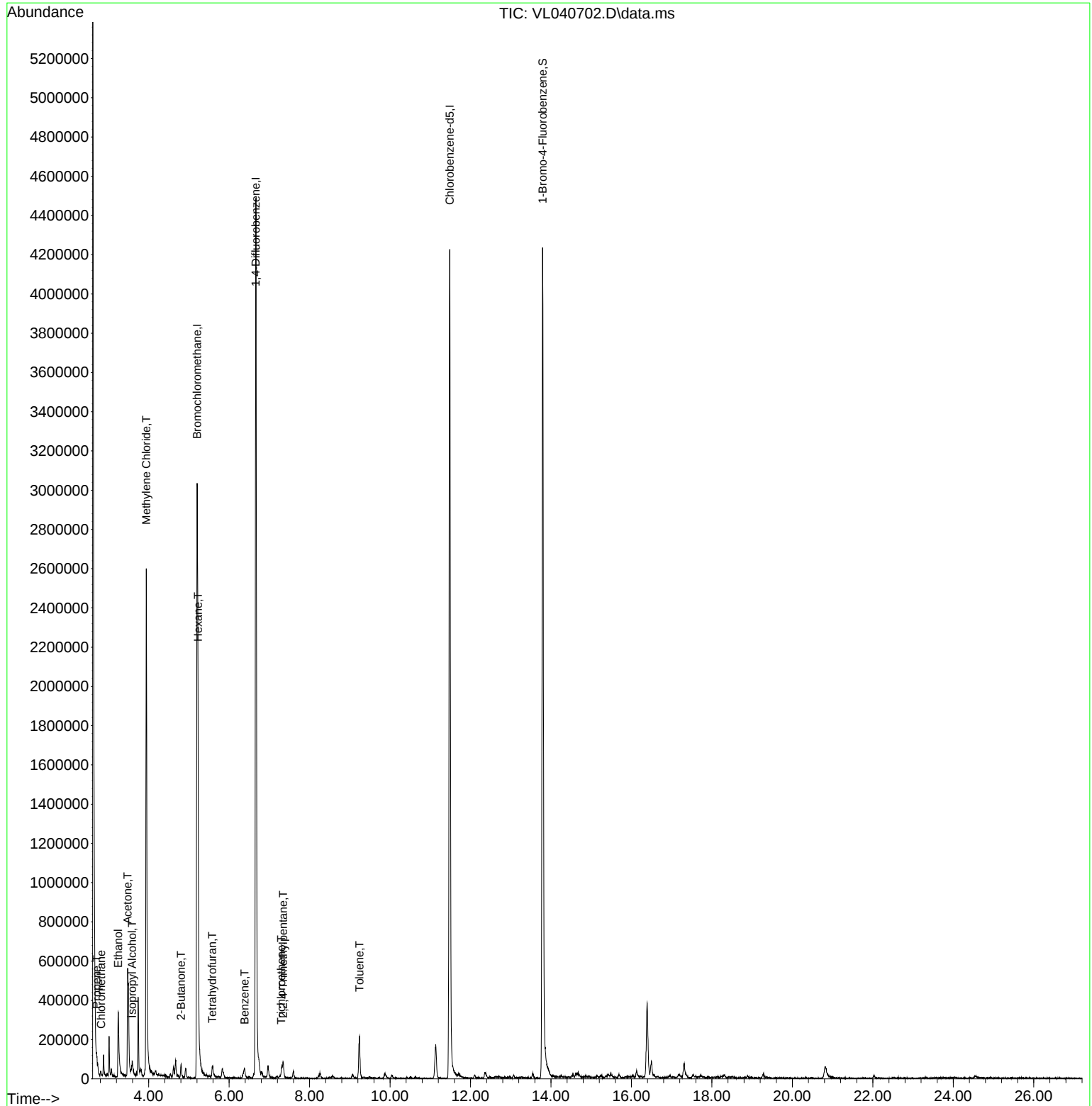
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
Data File : VL040702.D
Acq On : 18 Sep 2023 17:03
Operator : SY/MD
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Misc : 400mL/MSVOA_L
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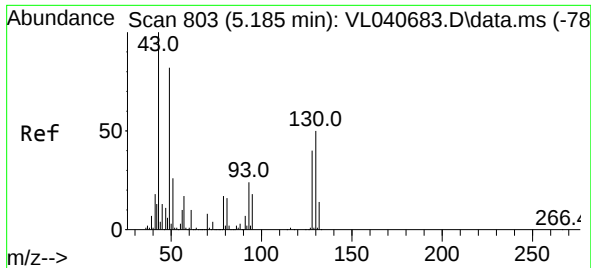
Instrument :
MSVOA_L
ClientSampleId :
ST-3DL

Quant Time: Sep 19 05:19:48 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
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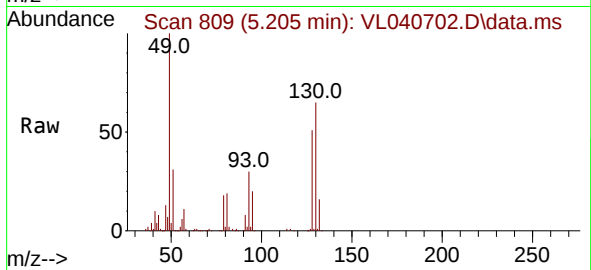
Reviewed By : Semsettin Yesilyurt 09/19/2023
Supervised By : Mahesh Dadoda 09/19/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.205 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL040702.D
Acq: 18 Sep 2023 17:03

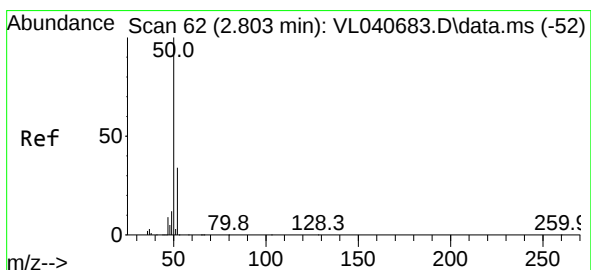
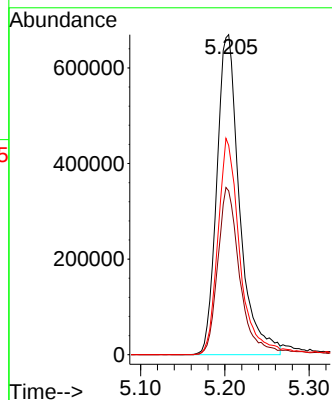
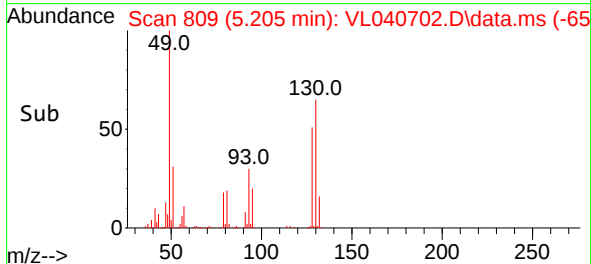
Instrument :
MSVOA_L
Client SampleId :
ST-3DL



Tgt Ion: 49 Resp: 125348
Ion Ratio Lower Upper
49 100
128 52.5 25.4 76.0
130 67.5 32.3 96.8

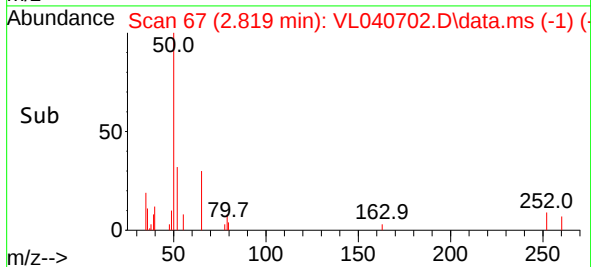
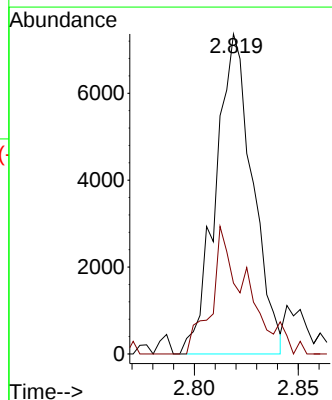
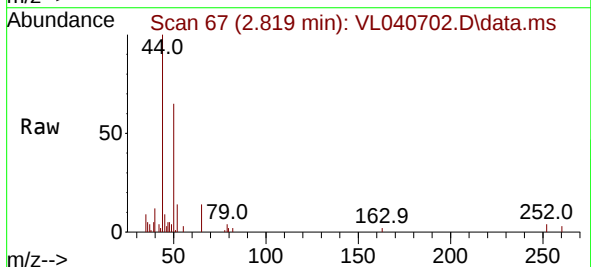
Manual Integrations
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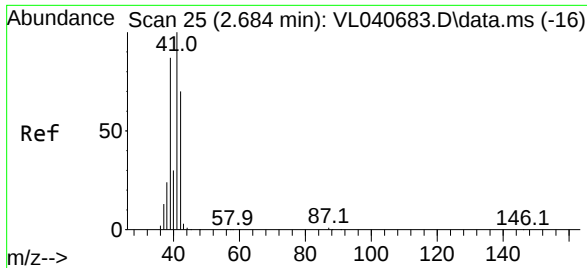
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#4
Chloromethane
Concen: 0.117 ppbv
RT: 2.819 min Scan# 67
Delta R.T. 0.003 min
Lab File: VL040702.D
Acq: 18 Sep 2023 17:03

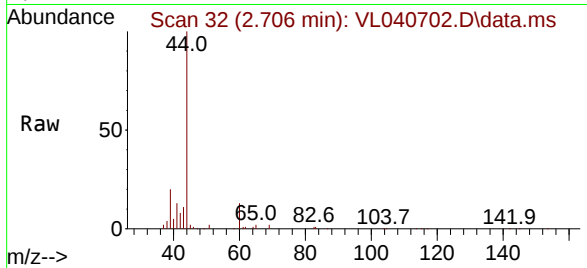
Tgt Ion: 50 Resp: 9131
Ion Ratio Lower Upper
50 100
52 22.2 27.1 40.7#





#9
 Propene
 Concen: 0.255 ppbv m
 RT: 2.706 min Scan# 31
 Delta R.T. 0.010 min
 Lab File: VL040702.D
 Acq: 18 Sep 2023 17:03

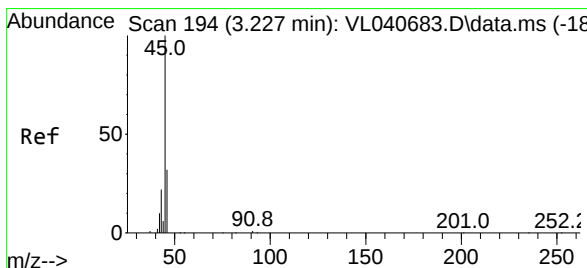
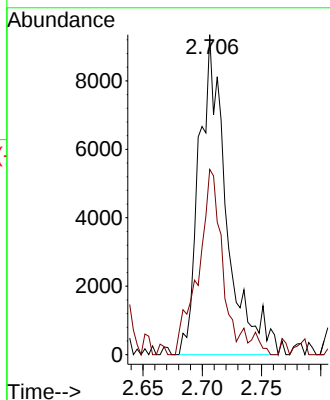
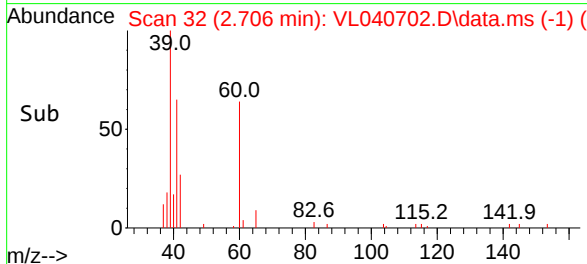
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-3DL



Tgt Ion: 41 Resp: 15015
 Ion Ratio Lower Upper
 41 100
 42 53.8 56.7 85.1

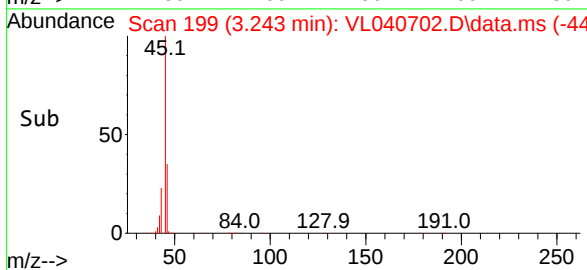
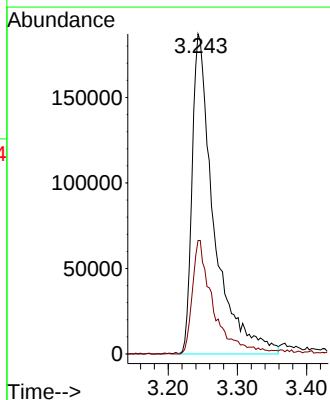
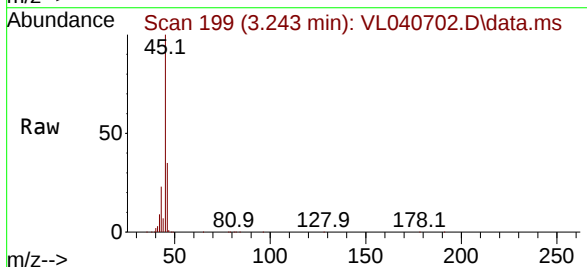
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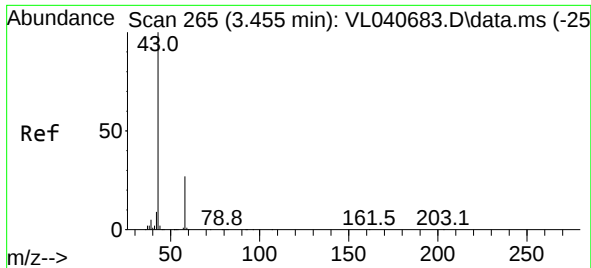
Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023



#13
 Ethanol
 Concen: 23.532 ppbv m
 RT: 3.243 min Scan# 199
 Delta R.T. -0.000 min
 Lab File: VL040702.D
 Acq: 18 Sep 2023 17:03

Tgt Ion: 45 Resp: 409752
 Ion Ratio Lower Upper
 45 100
 46 35.3 15.2 61.0





#15

Acetone

Concen: 3.733 ppbv

RT: 3.478 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL040702.D

Acq: 18 Sep 2023 17:03

Instrument :

MSVOA_L

ClientSampleId :

ST-3DL

Tgt Ion: 43 Resp: 617138

Ion Ratio Lower Upper

43 100

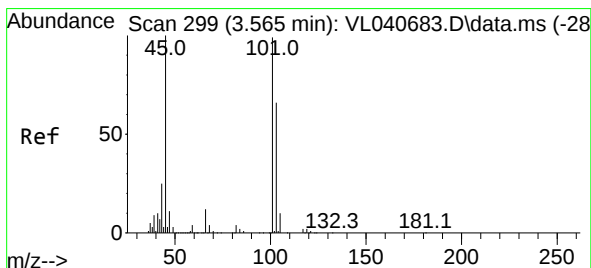
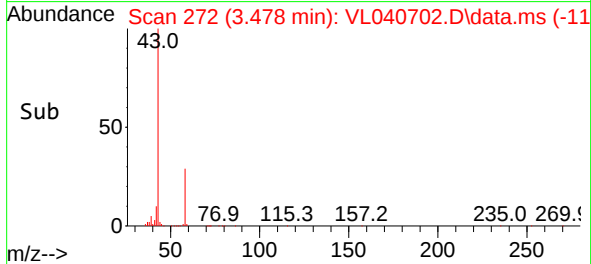
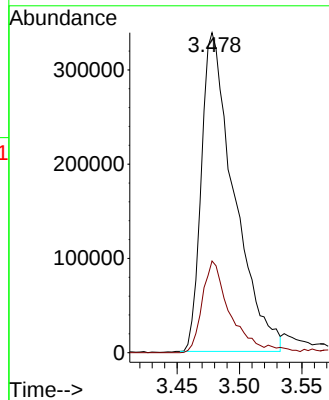
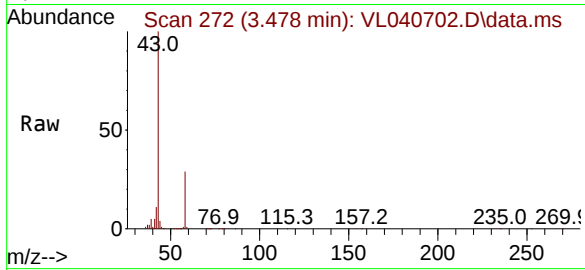
58 25.6 22.6 34.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023



#19

Isopropyl Alcohol

Concen: 0.807 ppbv m

RT: 3.590 min Scan# 307

Delta R.T. 0.013 min

Lab File: VL040702.D

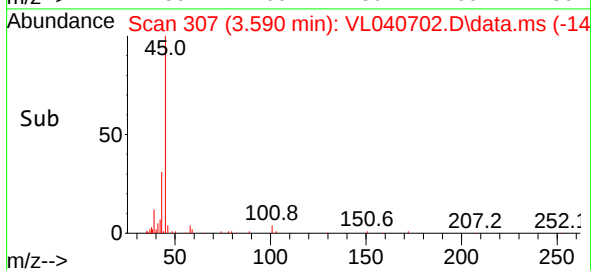
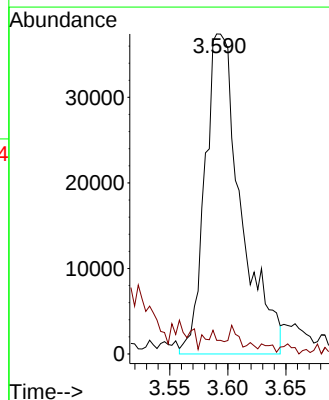
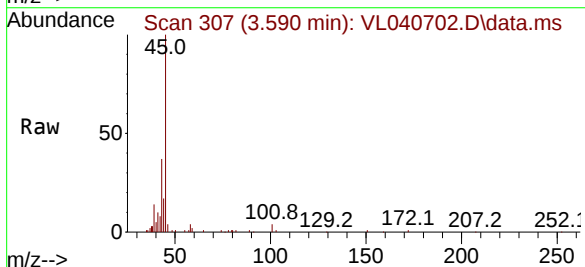
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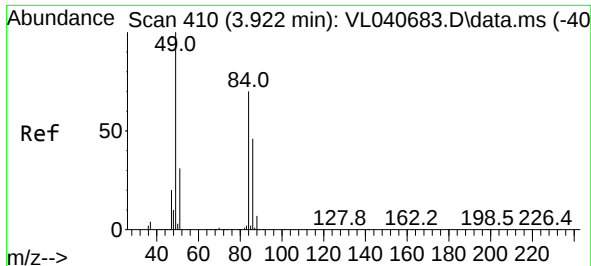
Tgt Ion: 45 Resp: 80443

Ion Ratio Lower Upper

45 100

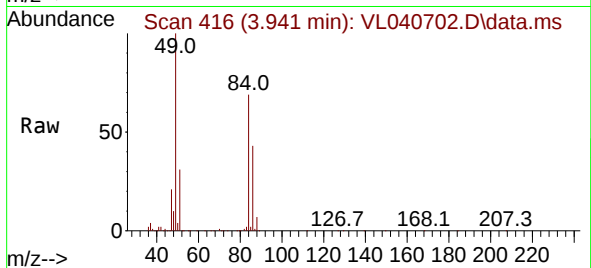
58 9.2 1.9 2.9#





#20
Methylene Chloride
Concen: 9.916 ppbv
RT: 3.941 min Scan# 410
Delta R.T. 0.003 min
Lab File: VL040702.D
Acq: 18 Sep 2023 17:03

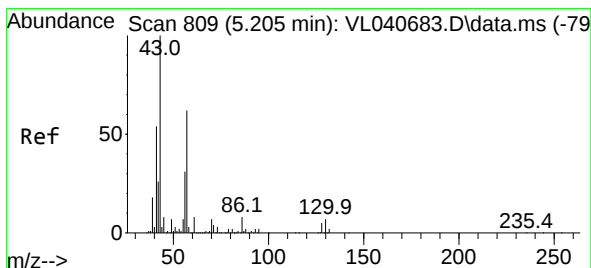
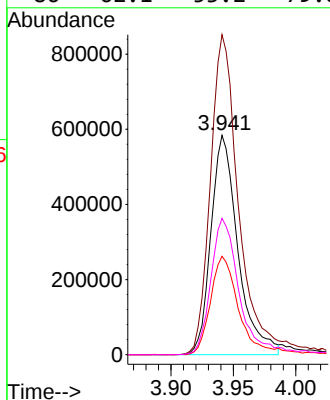
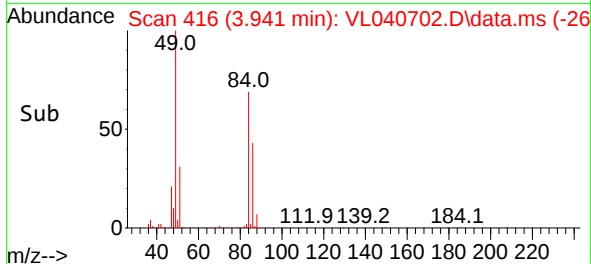
Instrument :
MSVOA_L
ClientSampleId :
ST-3DL



Tgt Ion: 84 Resp: 882452
Ion Ratio Lower Upper
84 100
49 145.8 114.4 171.6
51 44.8 35.5 53.3
86 62.1 53.2 79.8

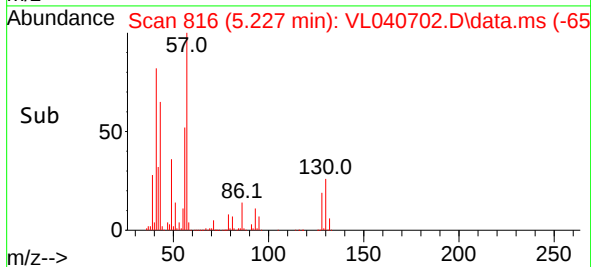
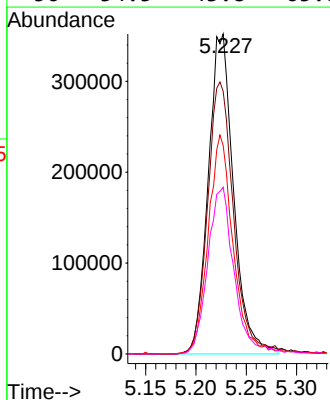
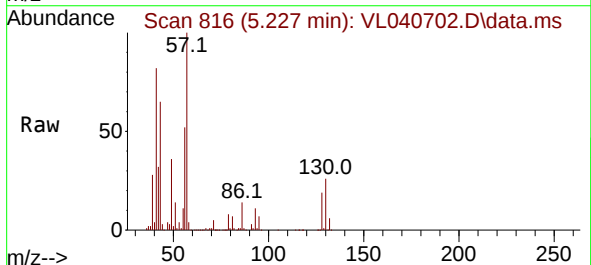
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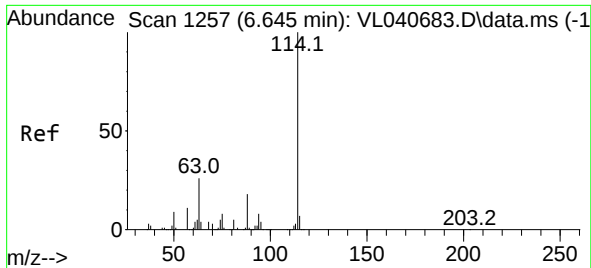
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#26
Hexane
Concen: 4.898 ppbv
RT: 5.227 min Scan# 816
Delta R.T. 0.006 min
Lab File: VL040702.D
Acq: 18 Sep 2023 17:03

Tgt Ion: 57 Resp: 617535
Ion Ratio Lower Upper
57 100
41 88.4 75.2 112.8
43 67.8 185.6 278.4#
56 54.5 43.8 65.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.664 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL040702.D

Acq: 18 Sep 2023 17:03

Instrument :

MSVOA_L

ClientSampleId :

ST-3DL

Tgt Ion:114 Resp: 335949

Ion Ratio Lower Upper

114 100

63 25.3 21.1 31.7

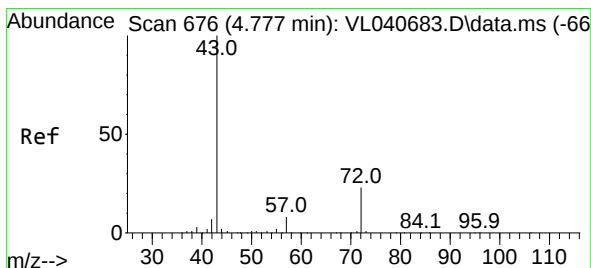
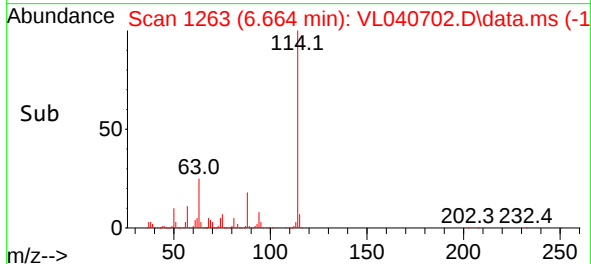
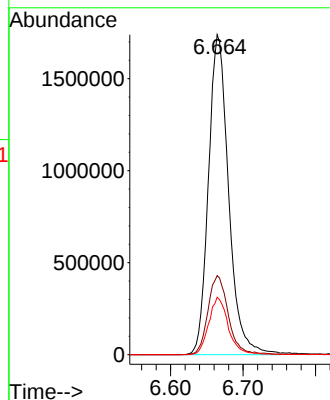
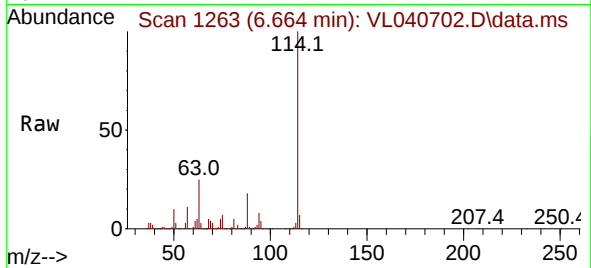
88 17.5 14.5 21.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023



#34

2-Butanone

Concen: 0.479 ppbv m

RT: 4.806 min Scan# 685

Delta R.T. 0.016 min

Lab File: VL040702.D

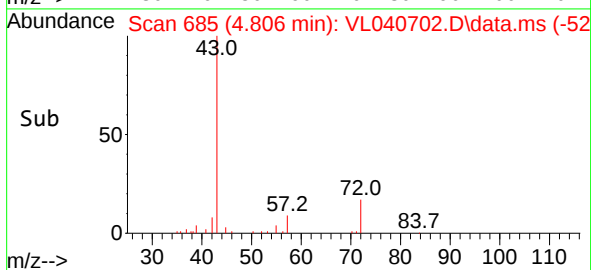
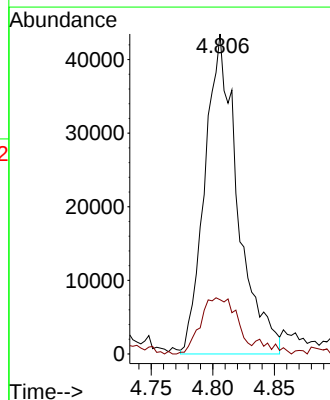
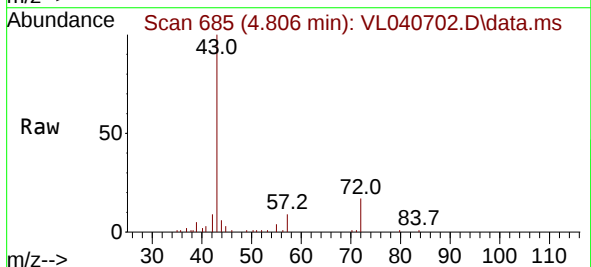
Acq: 18 Sep 2023 17:03

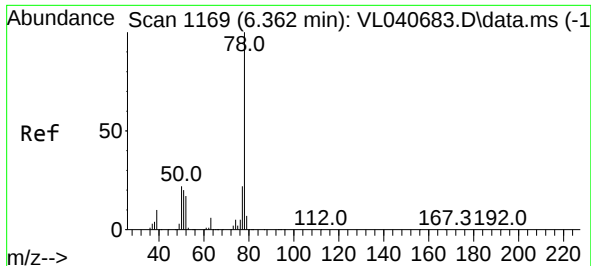
Tgt Ion: 43 Resp: 80998

Ion Ratio Lower Upper

43 100

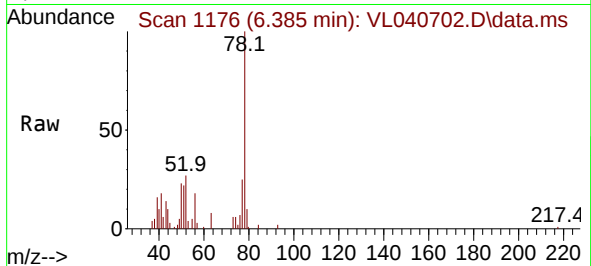
72 22.0 18.6 27.8





#36
Benzene
Concen: 0.124 ppbv m
RT: 6.385 min Scan# 1169
Delta R.T. 0.003 min
Lab File: VL040702.D
Acq: 18 Sep 2023 17:03

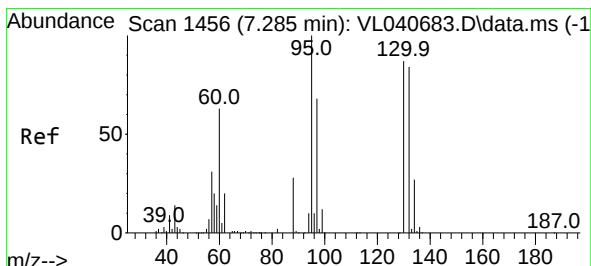
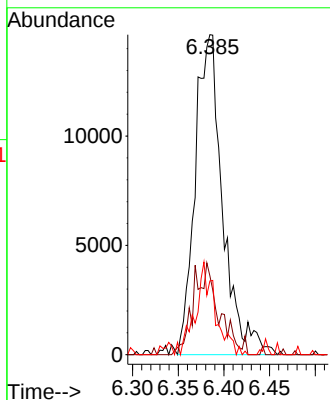
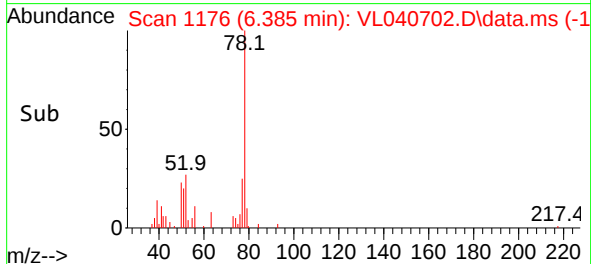
Instrument :
MSVOA_L
ClientSampleId :
ST-3DL



Tgt Ion: 78 Resp: 3077
Ion Ratio Lower Upper
78 100
77 24.6 17.9 26.9
50 23.1 17.3 25.9

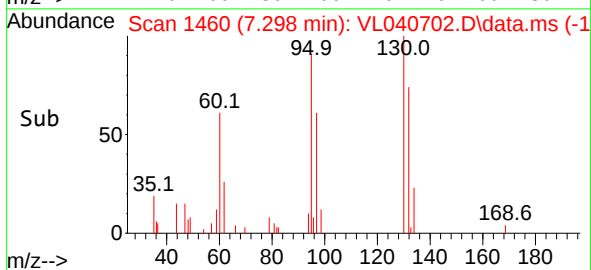
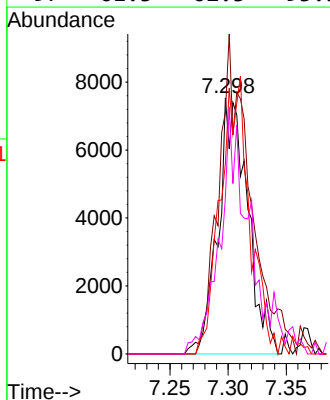
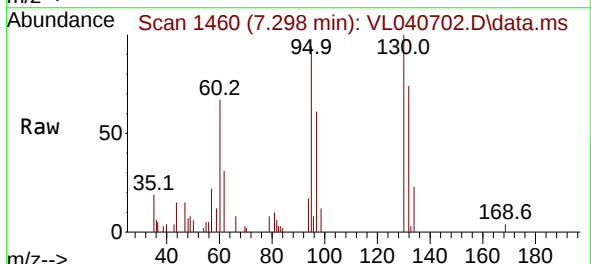
Manual Integrations
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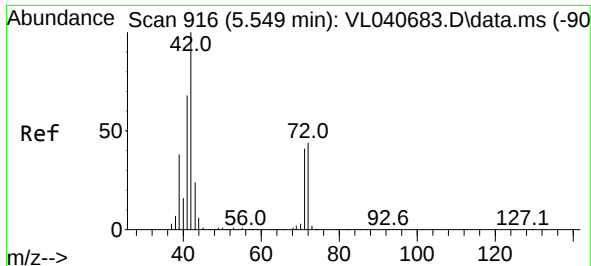
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#38
Trichloroethene
Concen: 0.141 ppbv m
RT: 7.298 min Scan# 1460
Delta R.T. -0.003 min
Lab File: VL040702.D
Acq: 18 Sep 2023 17:03

Tgt Ion:130 Resp: 13397
Ion Ratio Lower Upper
130 100
95 94.3 91.9 137.9
132 74.4 77.3 115.9#
97 61.3 62.3 93.5#





#41

Tetrahydrofuran

Concen: 0.398 ppbv m

RT: 5.581 min Scan# 916

Delta R.T. 0.019 min

Lab File: VL040702.D

Acq: 18 Sep 2023 17:03

Instrument :

MSVOA_L

ClientSampleId :

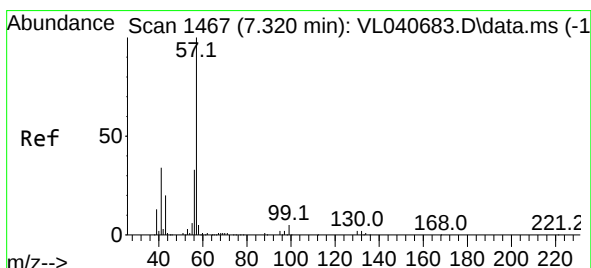
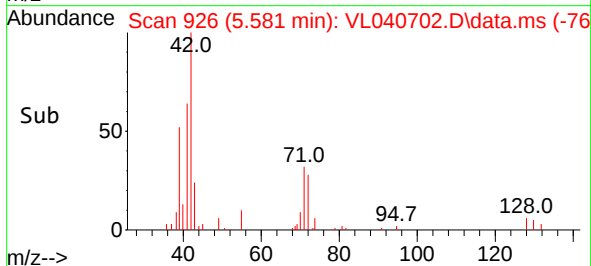
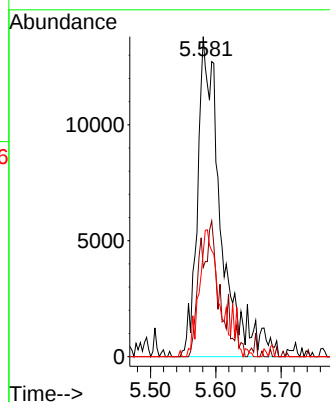
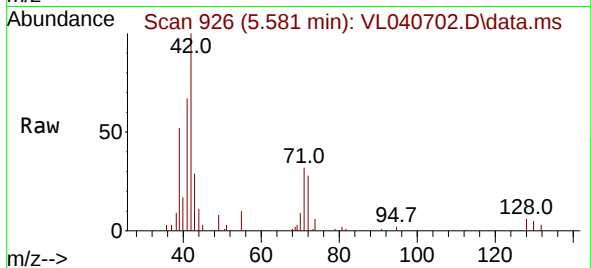
ST-3DL

Tgt Ion:	42	Resp:	34490
Ion Ratio	Lower	Upper	
42	100		
72	0.0	34.9	52.3#
71	35.6	33.8	50.8#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2023
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#44

2,2,4-Trimethylpentane

Concen: 0.143 ppbv m

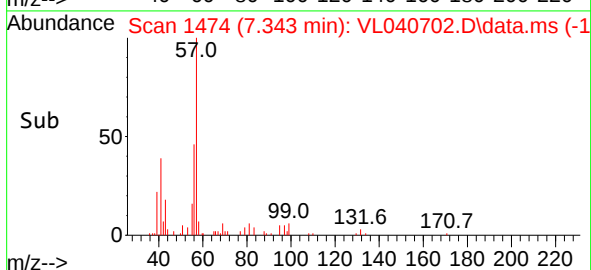
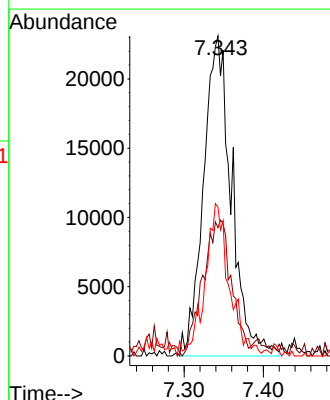
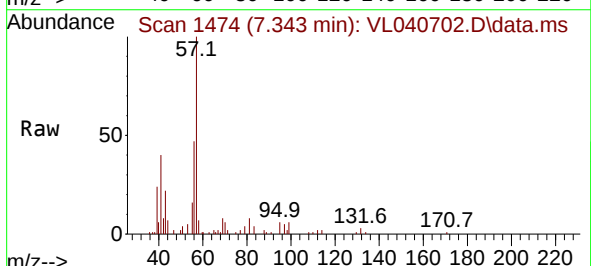
RT: 7.343 min Scan# 1474

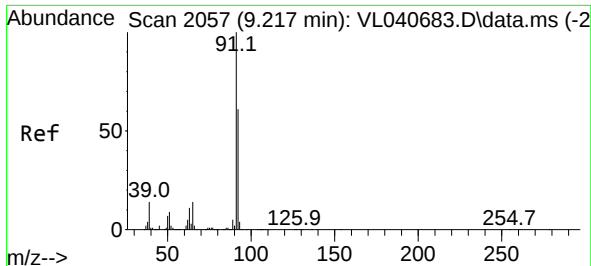
Delta R.T. 0.006 min

Lab File: VL040702.D

Acq: 18 Sep 2023 17:03

Tgt Ion:	57	Resp:	56741
Ion Ratio	Lower	Upper	
57	100		
41	45.7	28.5	42.7#
56	43.1	25.4	38.2#





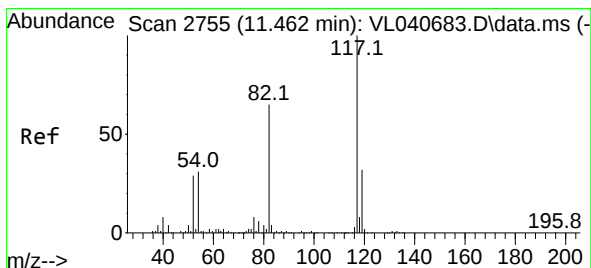
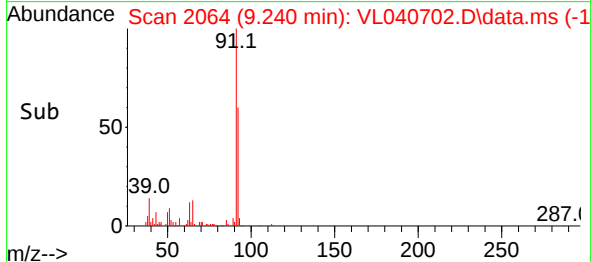
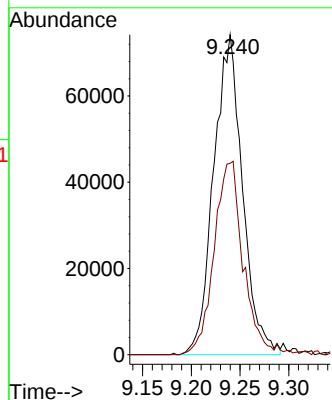
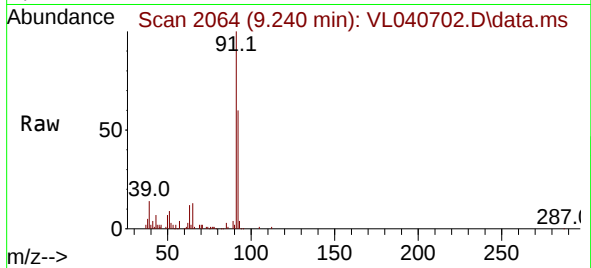
#53
Toluene
Concen: 0.581 ppbv
RT: 9.240 min Scan# 2057
Delta R.T. 0.010 min
Lab File: VL040702.D
Acq: 18 Sep 2023 17:03

Instrument :
MSVOA_L
ClientSampleId :
ST-3DL

Tgt Ion: 91 Resp: 15256
Ion Ratio Lower Upper
91 100
92 61.7 48.5 72.7

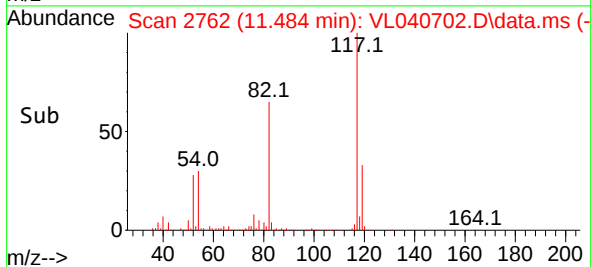
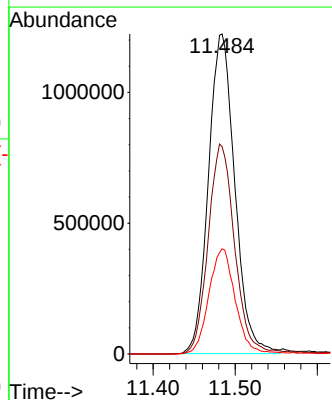
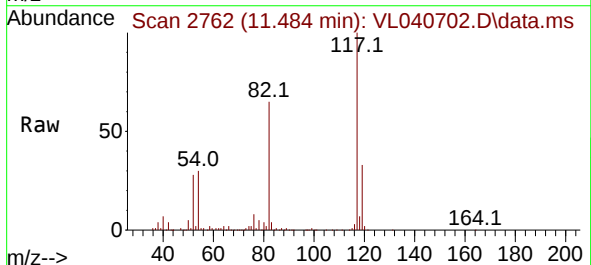
Manual Integrations
APPROVED

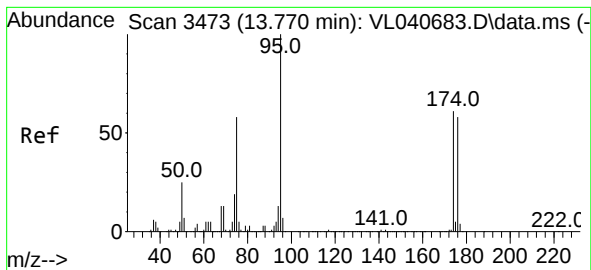
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 2762
Delta R.T. 0.006 min
Lab File: VL040702.D
Acq: 18 Sep 2023 17:03

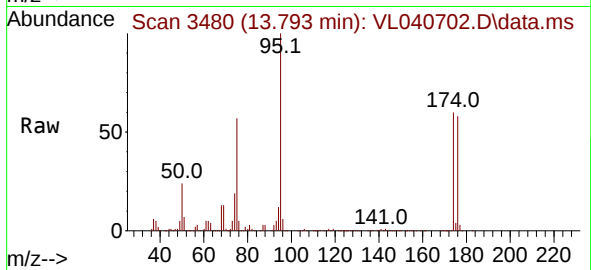
Tgt Ion:117 Resp: 2735591
Ion Ratio Lower Upper
117 100
82 66.6 51.4 77.0
119 33.2 24.7 37.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.961 ppbv
 RT: 13.793 min Scan# 3473
 Delta R.T. 0.006 min
 Lab File: VL040702.D
 Acq: 18 Sep 2023 17:03

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-3DL



Tgt Ion: 95 Resp: 210540

Ion	Ratio	Lower	Upper
95	100		
174	62.4	48.9	73.3
175	4.1	3.5	5.3

Manual Integrations
 APPROVED

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

