

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042524\
 Data File : VL041173.D
 Acq On : 25 Apr 2024 16:36
 Operator : SY/MD
 Sample : P2253-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/26/2024
 Supervised By :Mahesh Dadoda 04/26/2024

Quant Time: Apr 26 03:14:49 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M

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

QLast Update : Fri Apr 26 03:09:28 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.182	49	1163646	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	3023210	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2674108	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	2040569	9.490	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.735	85	59851	0.301	ppbv	98
3) Chlorodifluoromethane	2.677	51	76233	0.425	ppbv #	88
4) Chloromethane	2.816	50	39961	0.589	ppbv	97
9) Propene	2.710	41	187123m	3.282	ppbv	
10) Heptane	7.558	43	51823m	0.383	ppbv	
11) Trichlorofluoromethane	3.562	101	39368	0.218	ppbv	97
13) Ethanol	3.237	45	442219	32.609	ppbv	100
19) Isopropyl Alcohol	3.578	45	197675	2.583	ppbv #	97
20) Methylene Chloride	3.928	84	180971	3.482	ppbv	94
26) Hexane	5.201	57	315016	2.967	ppbv #	42
29) Chloroform	5.256	83	11899	0.066	ppbv	88
30) Cyclohexane	6.587	84	33537m	0.388	ppbv	
34) 2-Butanone	4.783	43	38833	0.304	ppbv #	89
35) Carbon Tetrachloride	6.478	117	12493m	0.073	ppbv	
36) Benzene	6.352	78	220088	0.991	ppbv	94
44) 2,2,4-Trimethylpentane	7.311	57	201944	0.549	ppbv #	85
52) Tetrachloroethene	10.590	164	8355m	0.118	ppbv	
53) Toluene	9.198	91	384895	1.647	ppbv	100
58) Ethyl Benzene	12.063	91	65839m	0.225	ppbv	
59) m/p-Xylene	12.326	91	213923m	0.809	ppbv	
60) o-Xylene	13.040	91	77686	0.310	ppbv	97
73) 1,3,5-Trimethylbenzene	15.330	105	22676m	0.092	ppbv	
74) 1,2,4-Trimethylbenzene	16.082	105	102646	0.363	ppbv #	69

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

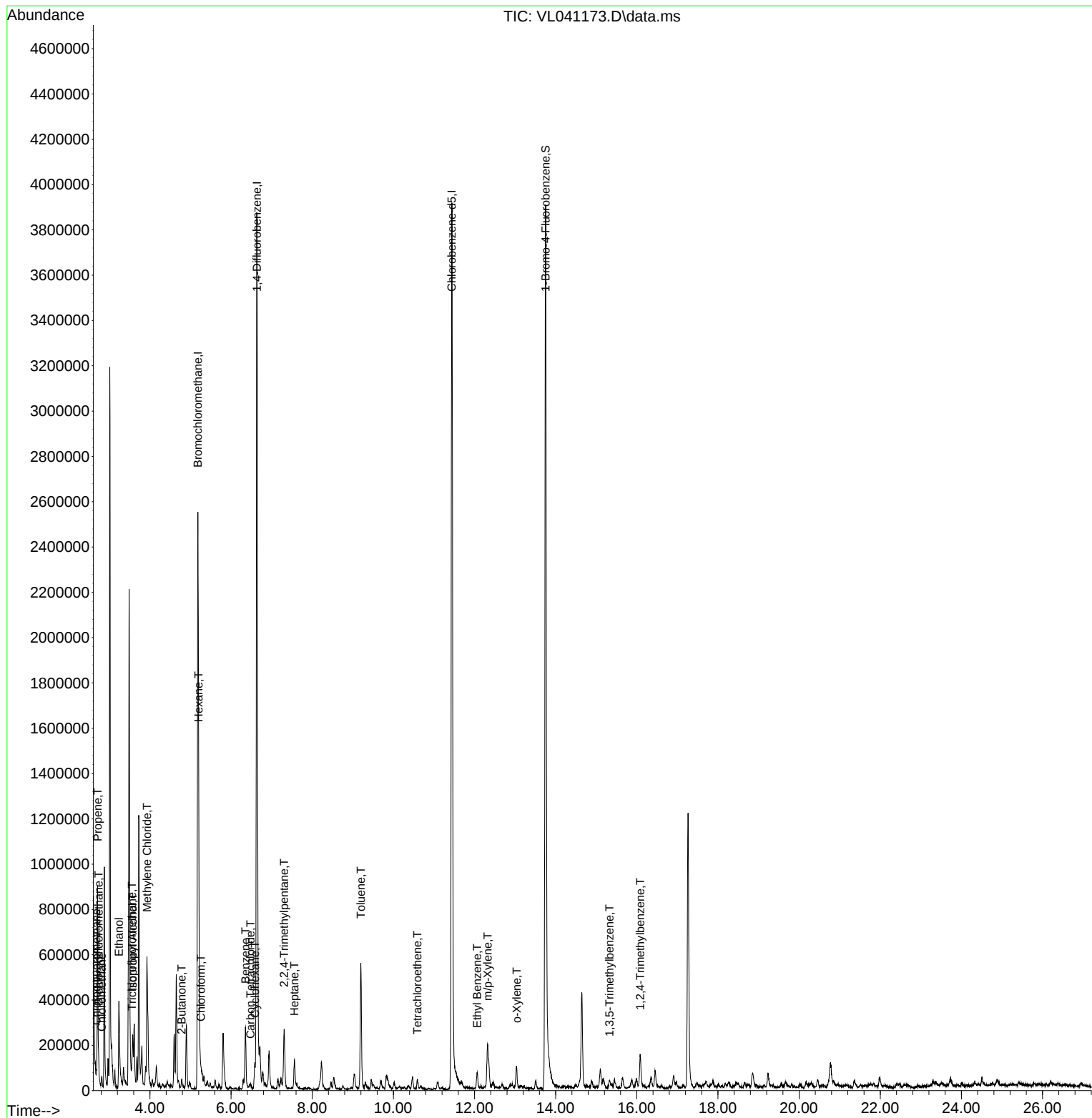
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042524\
Data File : VL041173.D
Acq On : 25 Apr 2024 16:36
Operator : SY/MD
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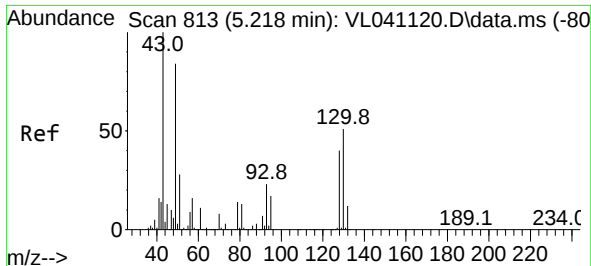
Instrument :
MSVOA_L
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Supervised By : Mahesh Dadoda 04/26/2024

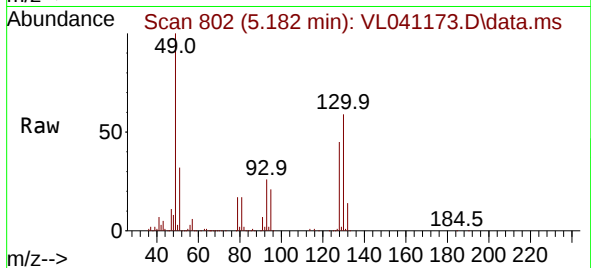
Quant Time: Apr 26 03:14:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 26 03:09:28 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

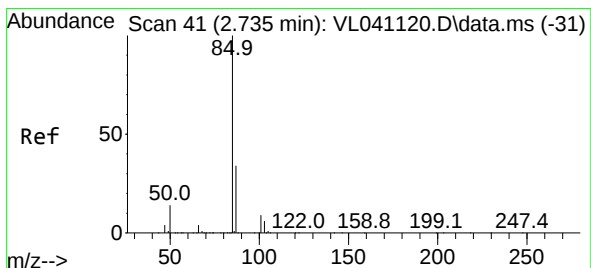
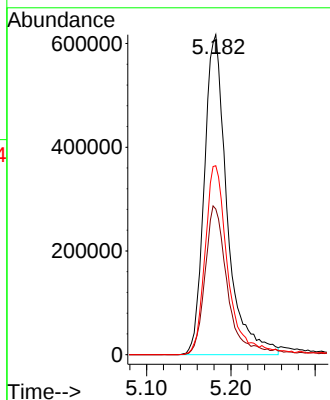
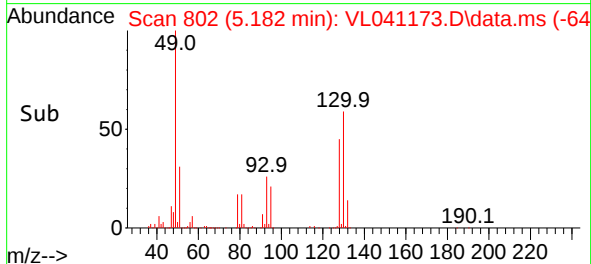
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 49 Resp: 116364
Ion Ratio Lower Upper
49 100
128 46.3 23.6 71.0
130 60.6 30.1 90.5

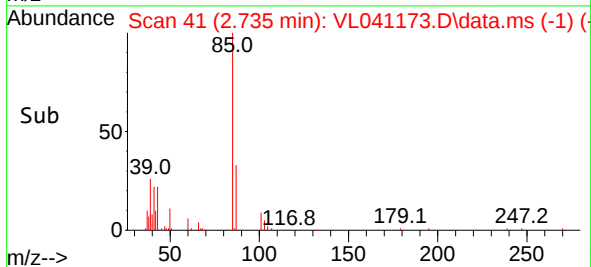
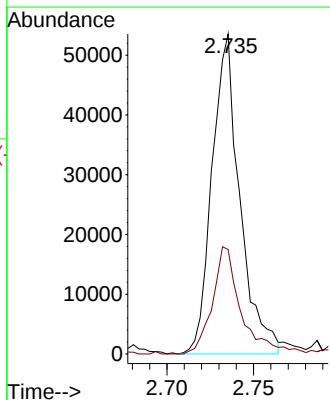
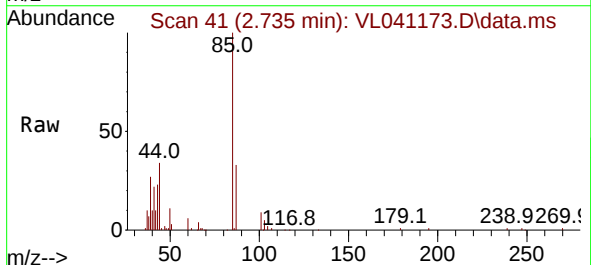
Manual Integrations
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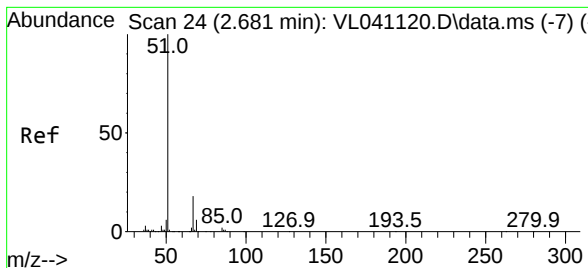
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#2
Dichlorodifluoromethane
Concen: 0.301 ppbv
RT: 2.735 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

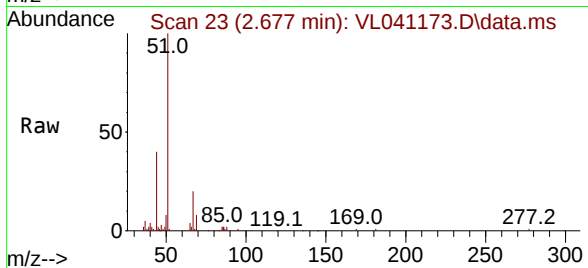
Tgt Ion: 85 Resp: 59851
Ion Ratio Lower Upper
85 100
87 32.7 27.0 40.6





#3
Chlorodifluoromethane
Concen: 0.425 ppbv
RT: 2.677 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

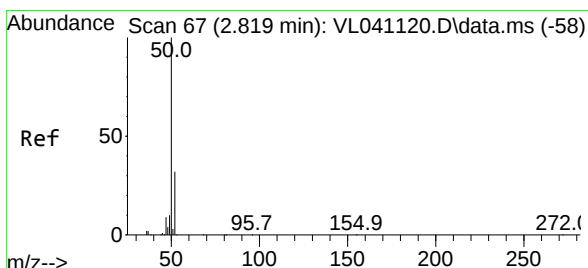
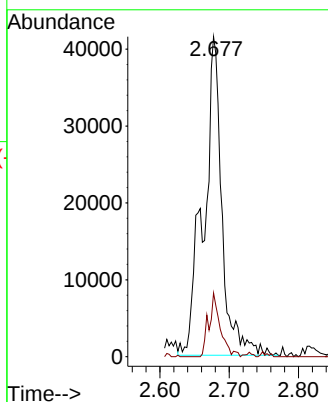
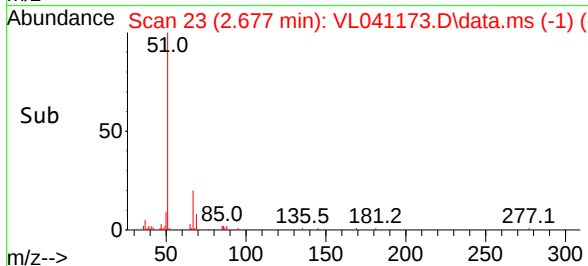
Instrument :
MSVOA_L
ClientSampleId :
IA2



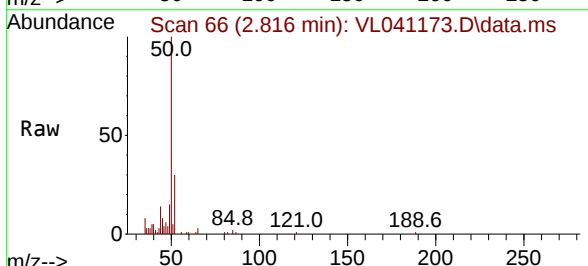
Tgt Ion: 51 Resp: 7623
Ion Ratio Lower Upper
51 100
67 13.1 14.9 22.3

Manual Integrations
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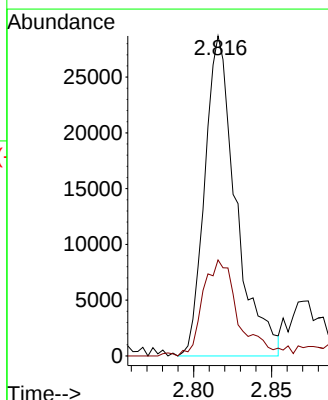
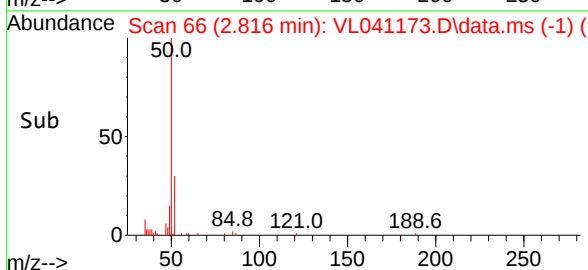
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024

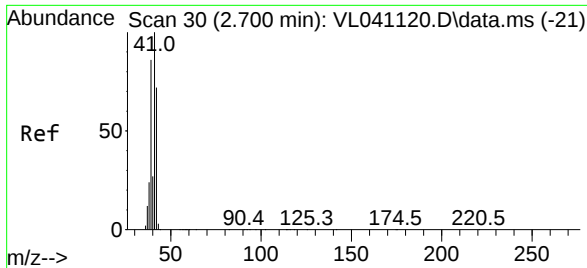


#4
Chloromethane
Concen: 0.589 ppbv
RT: 2.816 min Scan# 66
Delta R.T. 0.006 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36



Tgt Ion: 50 Resp: 39961
Ion Ratio Lower Upper
50 100
52 30.6 26.0 39.0





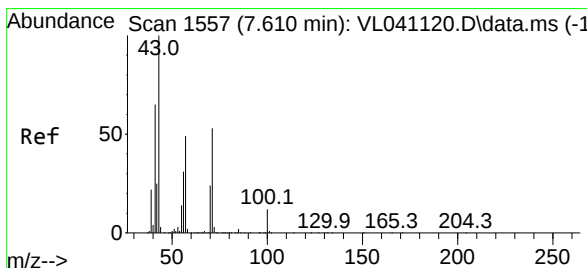
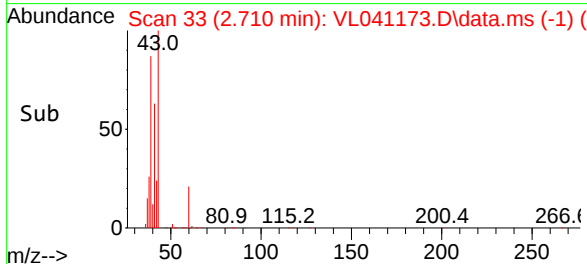
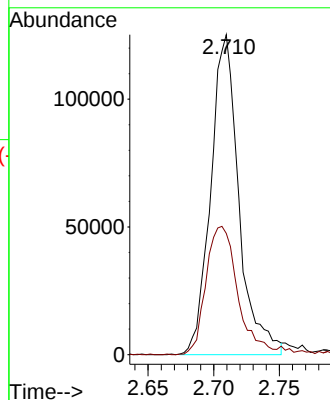
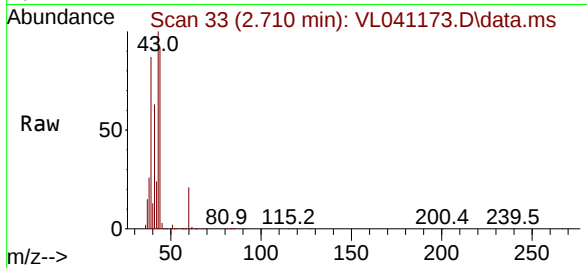
#9
 Propene
 Concen: 3.282 ppbv m
 RT: 2.710 min Scan# 31
 Delta R.T. 0.016 min
 Lab File: VL041173.D
 Acq: 25 Apr 2024 16:36

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Tgt Ion: 41 Resp: 187123
 Ion Ratio Lower Upper
 41 100
 42 92.1 60.1 90.1

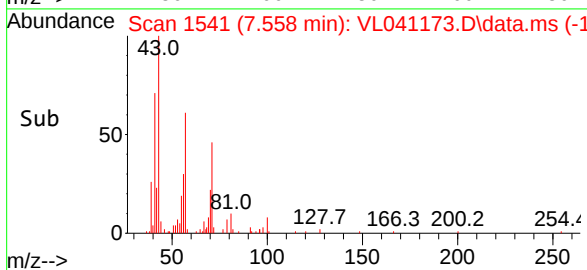
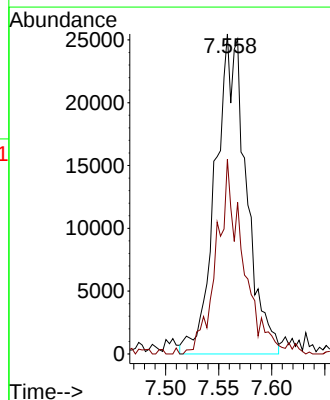
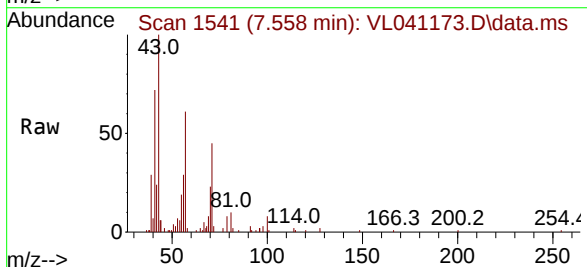
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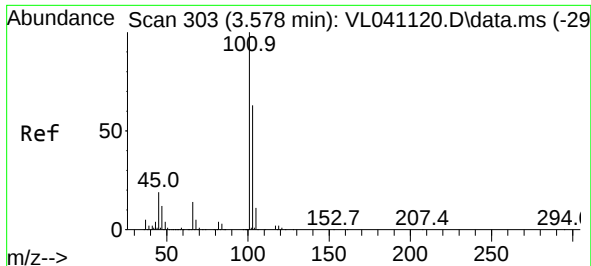
Reviewed By :Semsettin Yesilyurt 04/26/2024
 Supervised By :Mahesh Dadoda 04/26/2024



#10
 Heptane
 Concen: 0.383 ppbv m
 RT: 7.558 min Scan# 1541
 Delta R.T. 0.000 min
 Lab File: VL041173.D
 Acq: 25 Apr 2024 16:36

Tgt Ion: 43 Resp: 51823
 Ion Ratio Lower Upper
 43 100
 57 53.0 39.9 59.9





#11

Trichlorofluoromethane

Concen: 0.218 ppbv

RT: 3.562 min Scan# 298

Delta R.T. 0.006 min

Lab File: VL041173.D

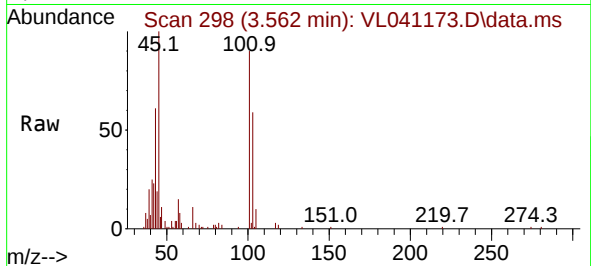
Acq: 25 Apr 2024 16:36

Instrument :

MSVOA_L

ClientSampleId :

IA2



Tgt Ion:101 Resp: 3936

Ion Ratio Lower Upper

101 100

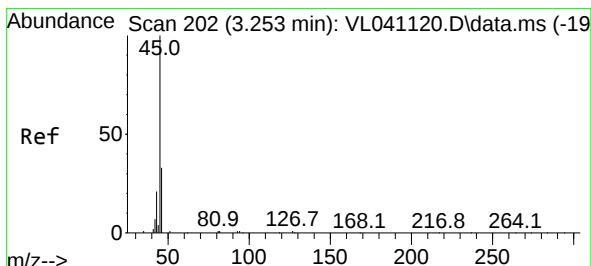
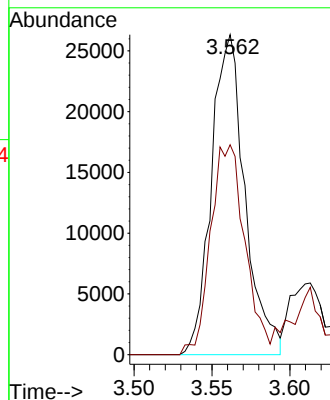
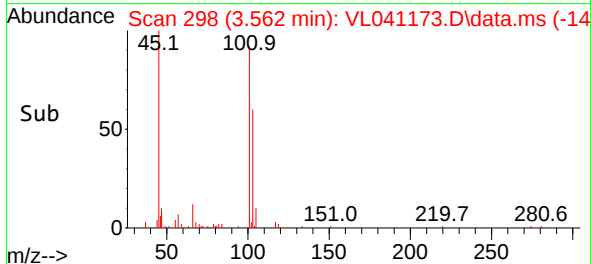
103 65.6 50.6 75.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/26/2024

Supervised By :Mahesh Dadoda 04/26/2024



#13

Ethanol

Concen: 32.609 ppbv

RT: 3.237 min Scan# 197

Delta R.T. 0.003 min

Lab File: VL041173.D

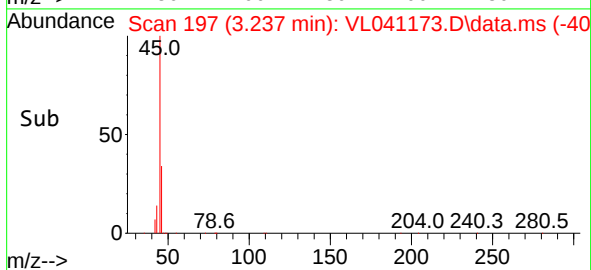
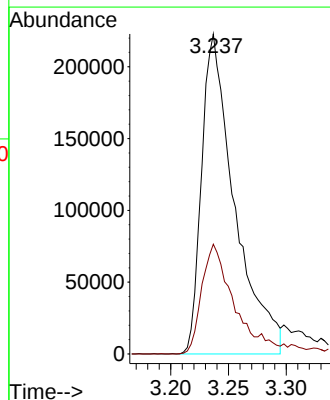
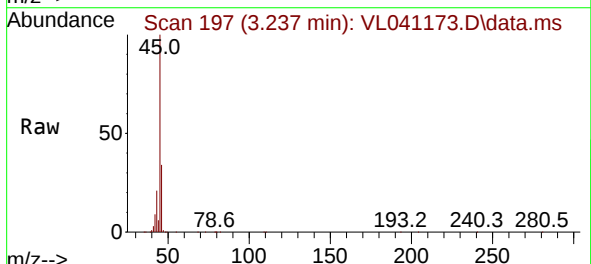
Acq: 25 Apr 2024 16:36

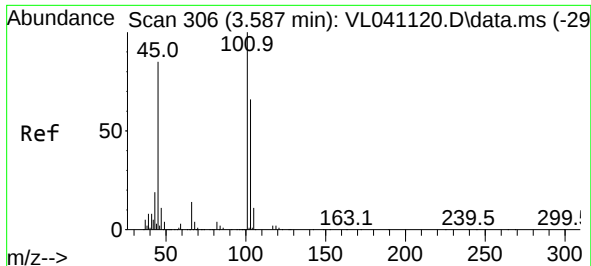
Tgt Ion: 45 Resp: 442219

Ion Ratio Lower Upper

45 100

46 37.3 15.0 59.8





#19

Isopropyl Alcohol

Concen: 2.583 ppbv

RT: 3.578 min Scan# 306

Delta R.T. 0.010 min

Lab File: VL041173.D

Acq: 25 Apr 2024 16:36

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 45 Resp: 197679

Ion Ratio Lower Upper

45 100

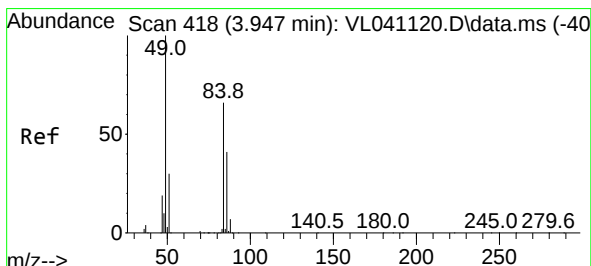
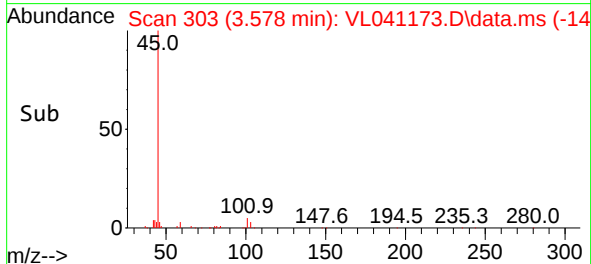
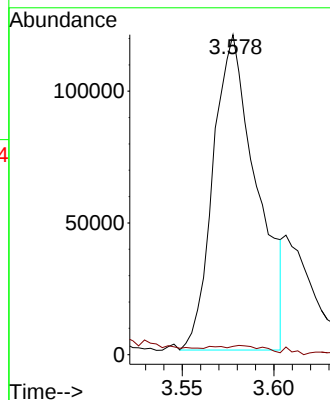
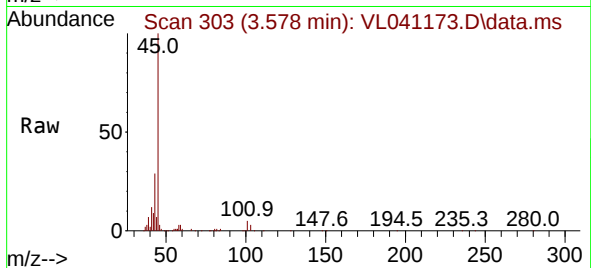
58 4.6 2.8 4.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/26/2024

Supervised By :Mahesh Dadoda 04/26/2024



#20

Methylene Chloride

Concen: 3.482 ppbv

RT: 3.928 min Scan# 412

Delta R.T. 0.003 min

Lab File: VL041173.D

Acq: 25 Apr 2024 16:36

Tgt Ion: 84 Resp: 180971

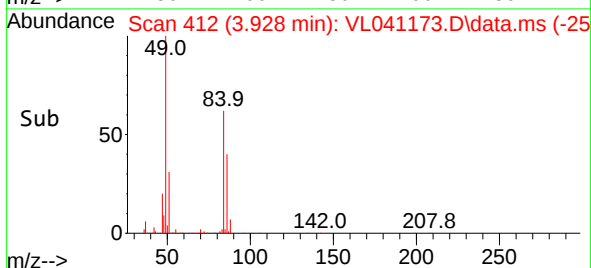
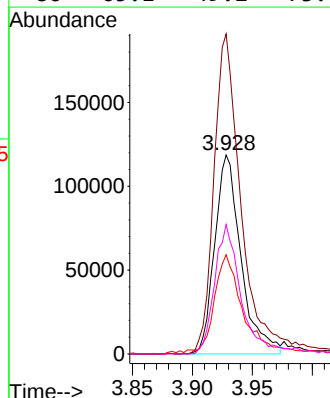
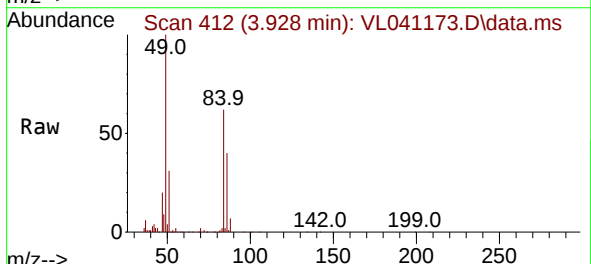
Ion Ratio Lower Upper

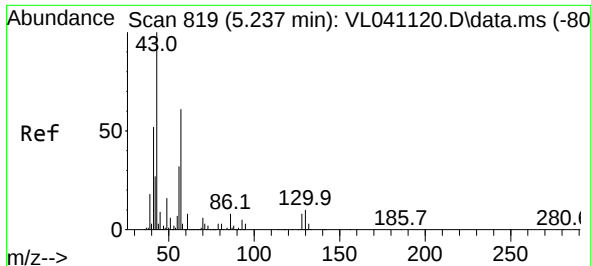
84 100

49 160.9 120.7 181.1

51 48.3 36.6 54.8

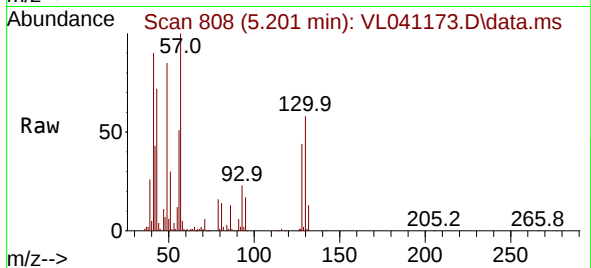
86 65.1 49.2 73.8





#26
Hexane
Concen: 2.967 ppbv
RT: 5.201 min Scan# 808
Delta R.T. 0.006 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

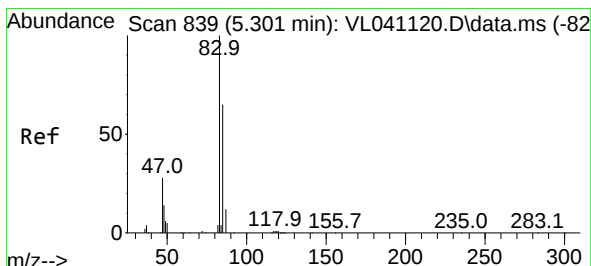
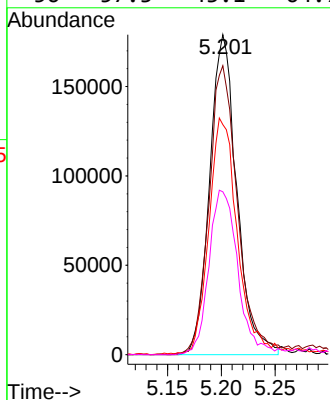
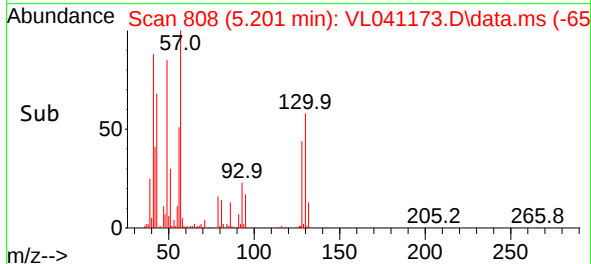
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 57 Resp: 315010
Ion Ratio Lower Upper
57 100
41 95.4 73.8 110.8
43 79.7 186.2 279.2
56 57.3 43.1 64.7

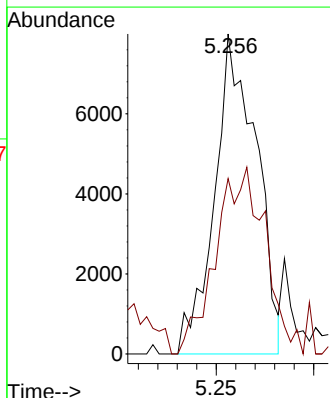
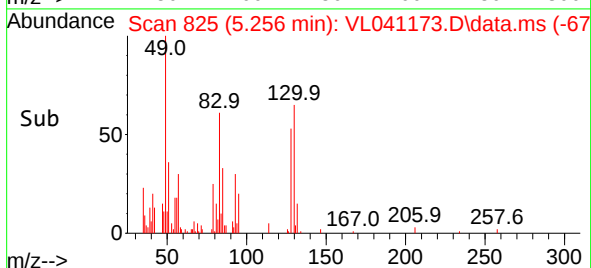
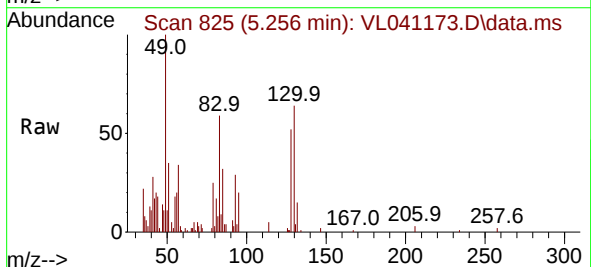
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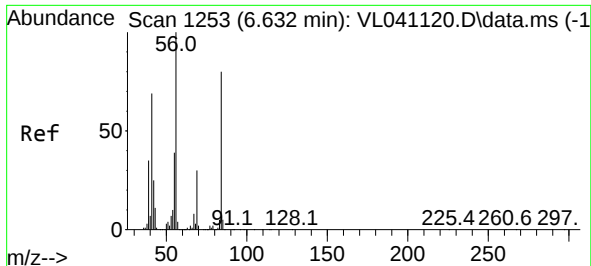
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#29
Chloroform
Concen: 0.066 ppbv
RT: 5.256 min Scan# 825
Delta R.T. -0.003 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

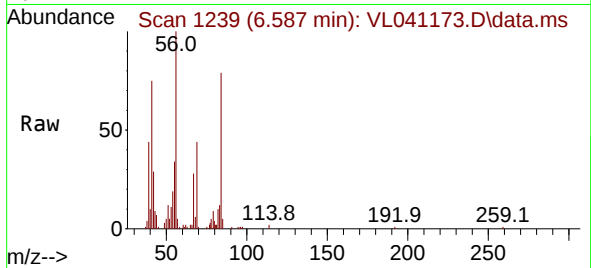
Tgt Ion: 83 Resp: 11899
Ion Ratio Lower Upper
83 100
85 54.8 51.5 77.3





#30
Cyclohexane
Concen: 0.388 ppbv m
RT: 6.587 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

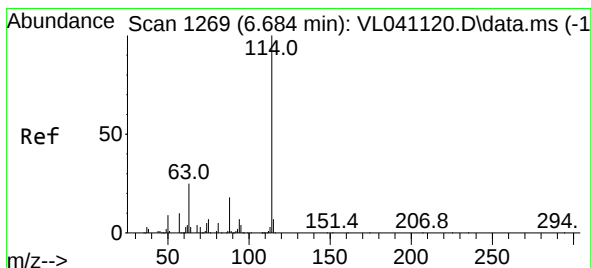
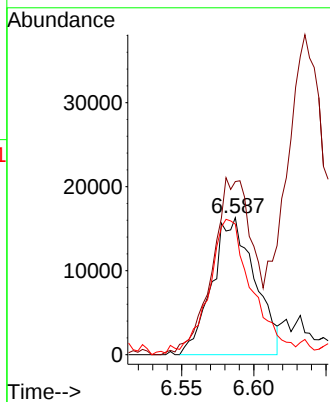
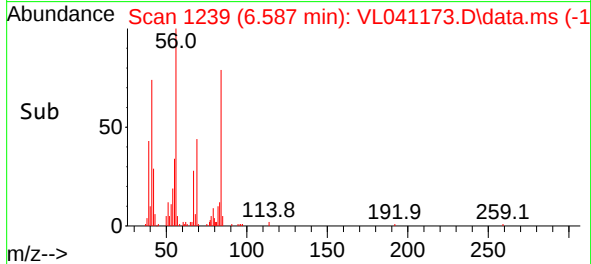
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 84 Resp: 3353
Ion Ratio Lower Upper
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56 0.0 111.9 167.9
41 0.0 71.0 106.6

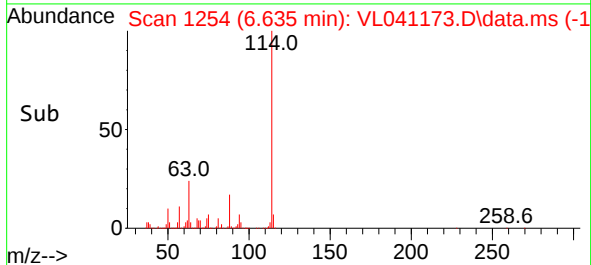
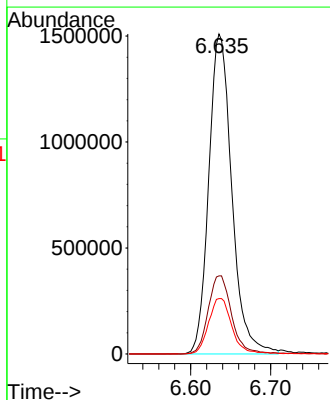
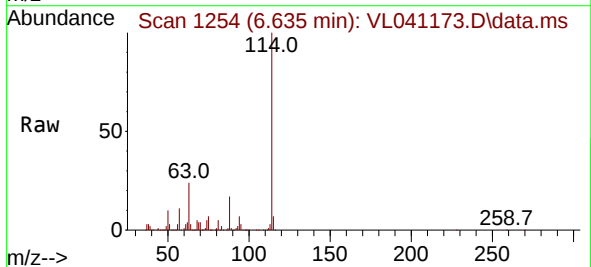
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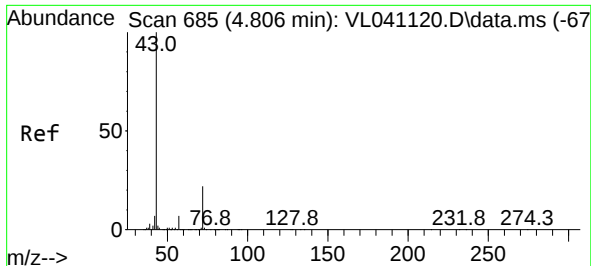
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.635 min Scan# 1254
Delta R.T. 0.000 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

Tgt Ion:114 Resp: 3023210
Ion Ratio Lower Upper
114 100
63 25.1 20.9 31.3
88 17.6 14.5 21.7





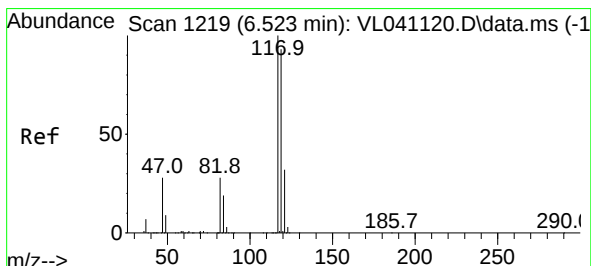
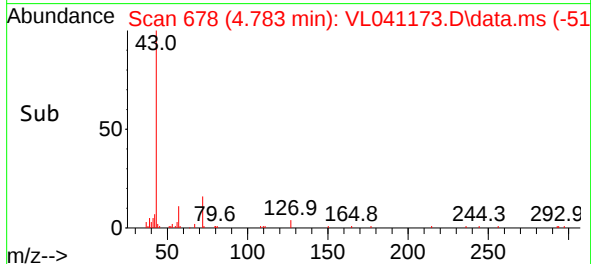
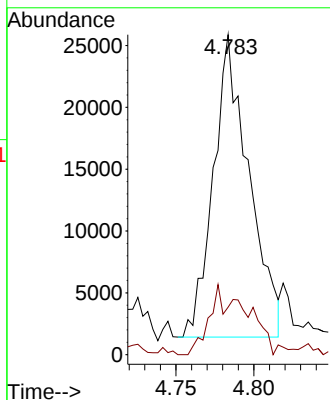
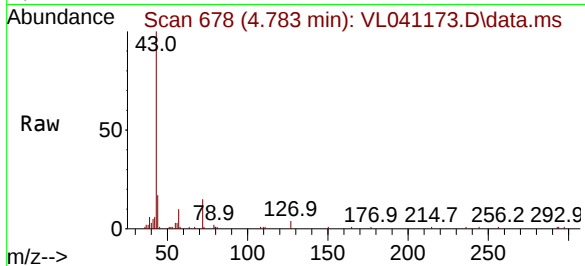
#34
2-Butanone
Concen: 0.304 ppbv
RT: 4.783 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 43 Resp: 3883
Ion Ratio Lower Upper
43 100
72 27.5 17.6 26.4

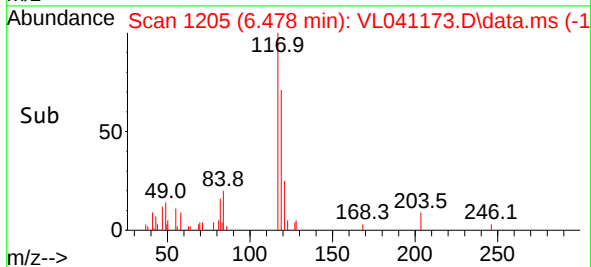
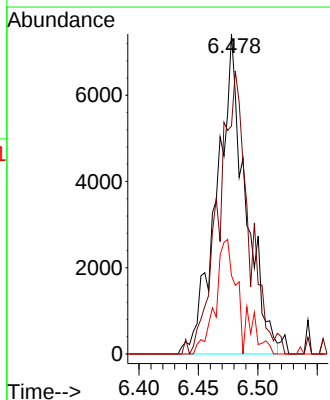
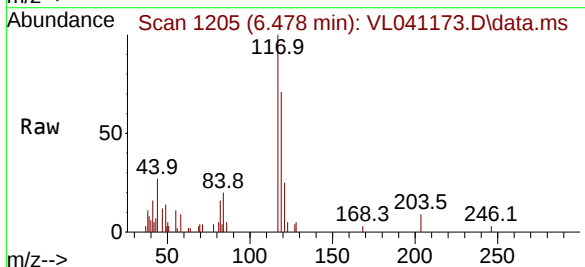
Manual Integrations
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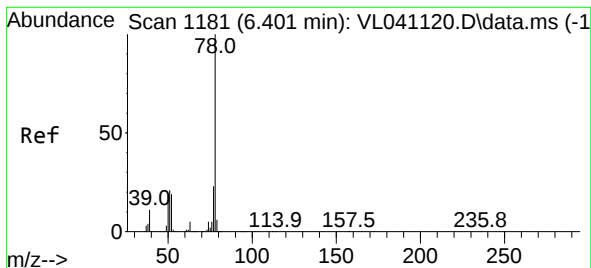
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 6.478 min Scan# 1205
Delta R.T. 0.003 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

Tgt Ion:117 Resp: 12493
Ion Ratio Lower Upper
117 100
119 71.3 74.2 111.4#
121 24.5 25.4 38.2#





#36

Benzene

Concen: 0.991 ppbv

RT: 6.352 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VL041173.D

Acq: 25 Apr 2024 16:36

Instrument :

MSVOA_L

ClientSampleId :

IA2

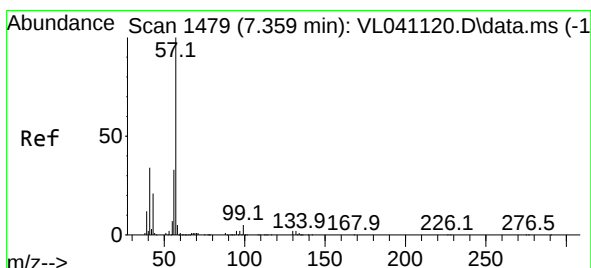
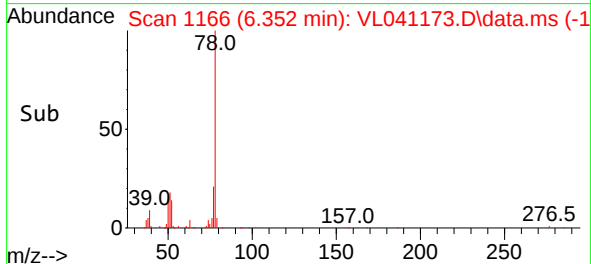
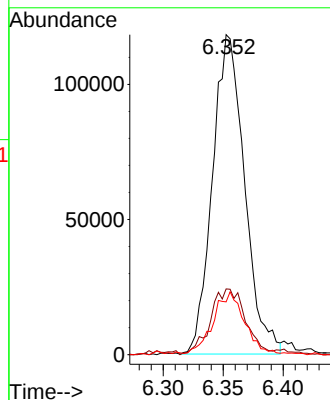
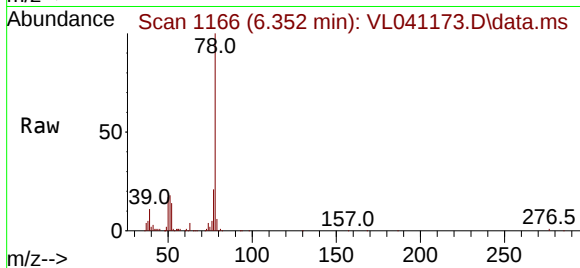
Tgt Ion: 78 Resp: 220088

Ion	Ratio	Lower	Upper
78	100		
77	20.4	18.2	27.4
50	16.1	15.4	23.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#44

2,2,4-Trimethylpentane

Concen: 0.549 ppbv

RT: 7.311 min Scan# 1464

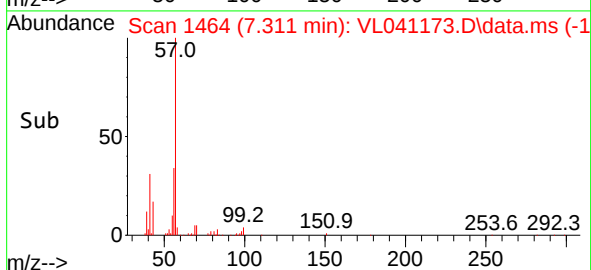
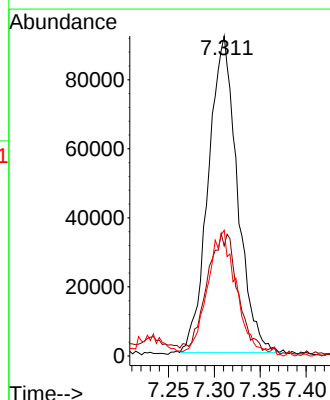
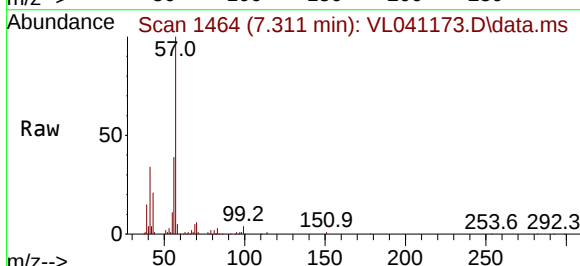
Delta R.T. 0.006 min

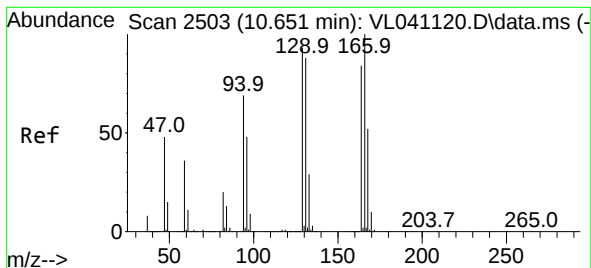
Lab File: VL041173.D

Acq: 25 Apr 2024 16:36

Tgt Ion: 57 Resp: 201944

Ion	Ratio	Lower	Upper
57	100		
41	42.5	28.2	42.2#
56	40.9	25.2	37.8#





#52

Tetrachloroethene

Concen: 0.118 ppbv m

RT: 10.590 min Scan# 2484

Delta R.T. 0.000 min

Lab File: VL041173.D

Acq: 25 Apr 2024 16:36

Instrument :

MSVOA_L

ClientSampleId :

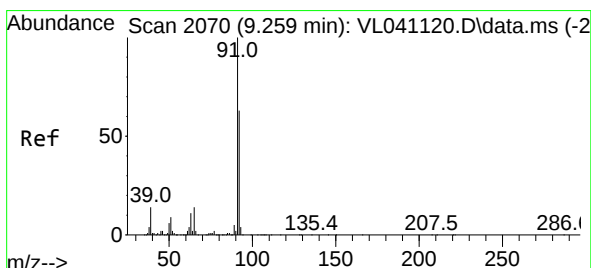
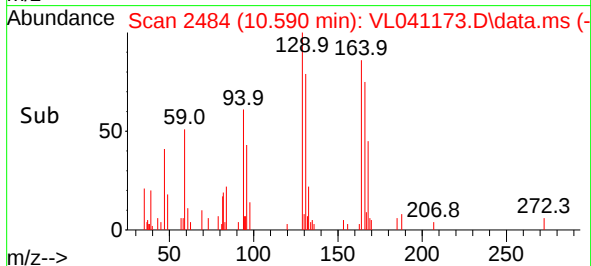
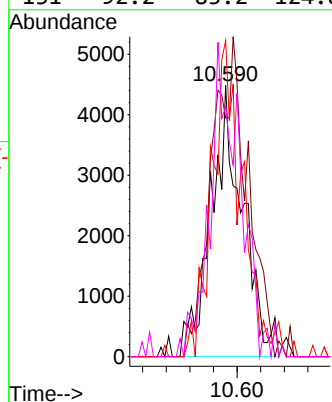
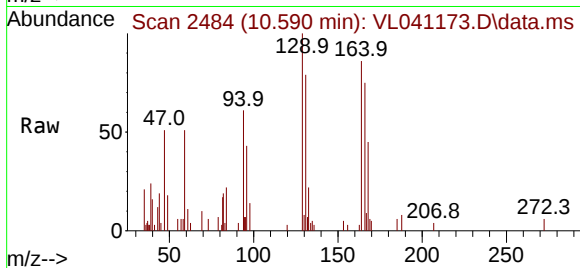
IA2

Tgt Ion:	164	Resp:	835
Ion Ratio	Lower	Upper	
164	100		
166	88.0	95.0	142.6
129	116.5	88.7	133.1
131	92.2	83.2	124.8

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Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#53

Toluene

Concen: 1.647 ppbv

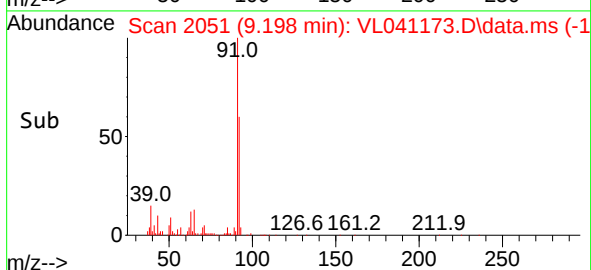
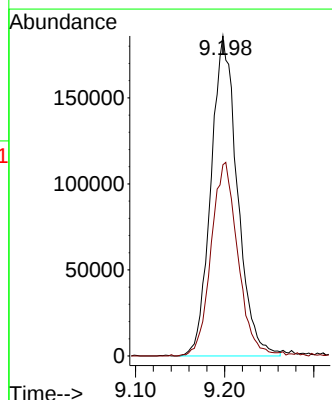
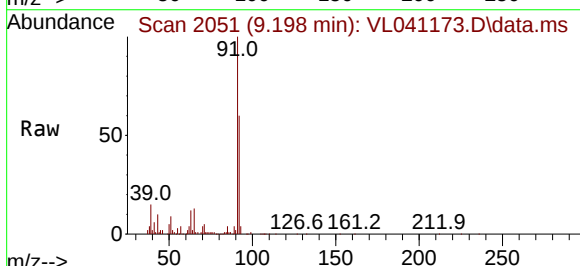
RT: 9.198 min Scan# 2051

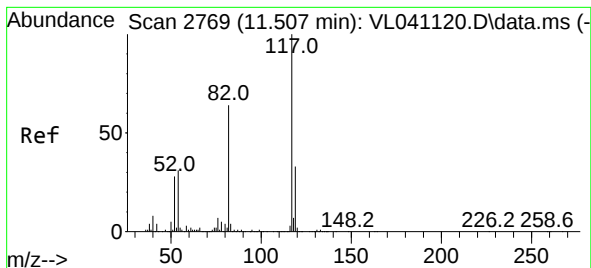
Delta R.T. 0.000 min

Lab File: VL041173.D

Acq: 25 Apr 2024 16:36

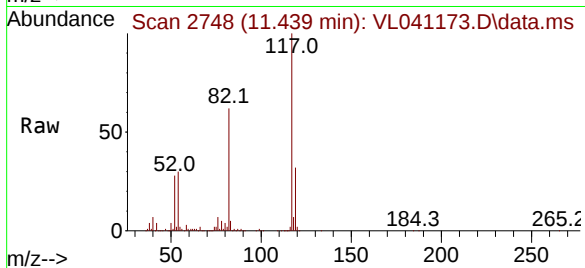
Tgt Ion:	91	Resp:	384895
Ion Ratio	Lower	Upper	
91	100		
92	61.5	49.0	73.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

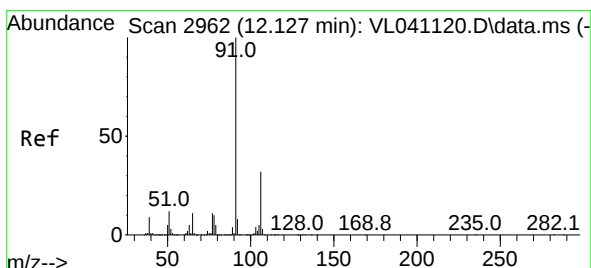
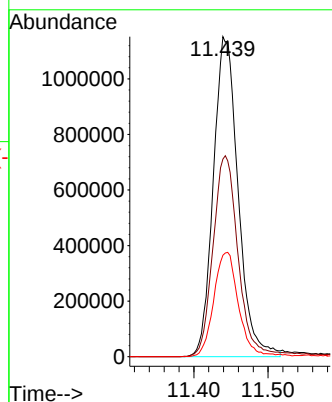
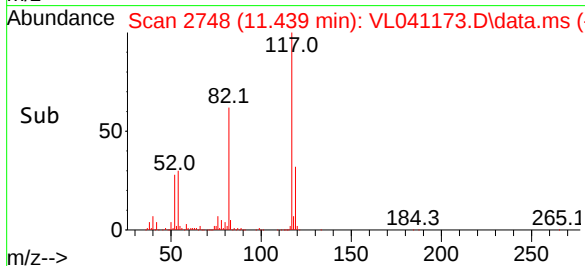
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:117 Resp: 2674108
Ion Ratio Lower Upper
117 100
82 65.3 51.0 76.6
119 32.9 25.2 37.8

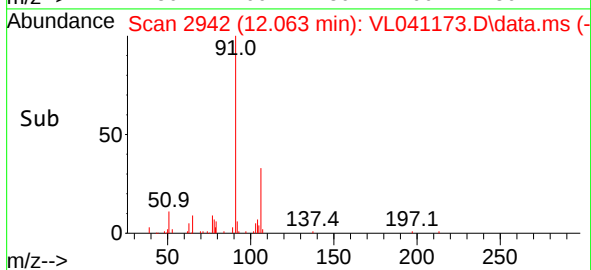
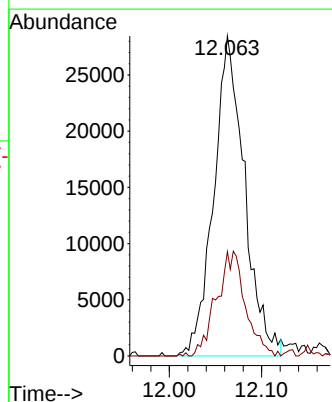
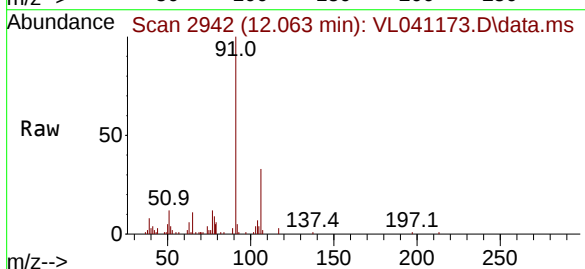
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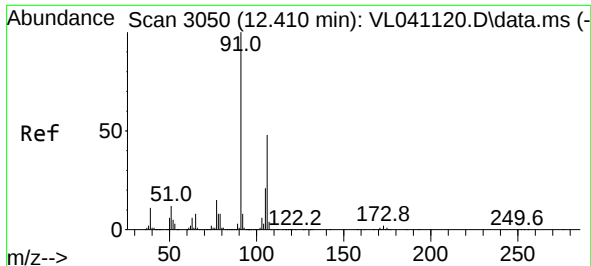
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#58
Ethyl Benzene
Concen: 0.225 ppbv m
RT: 12.063 min Scan# 2942
Delta R.T. 0.000 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

Tgt Ion: 91 Resp: 65839
Ion Ratio Lower Upper
91 100
106 32.6 25.6 38.4





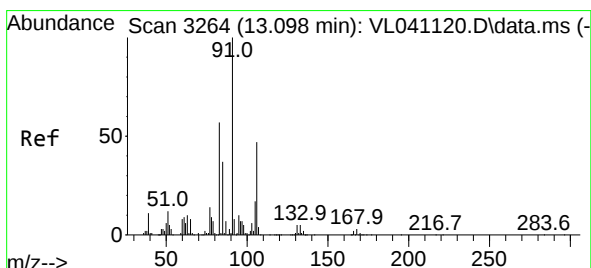
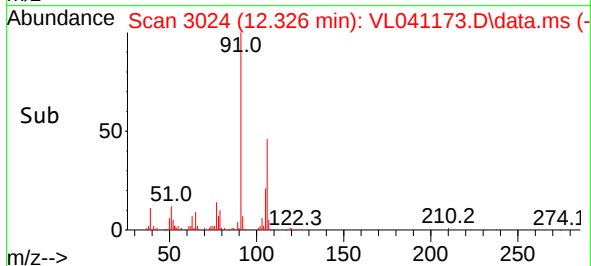
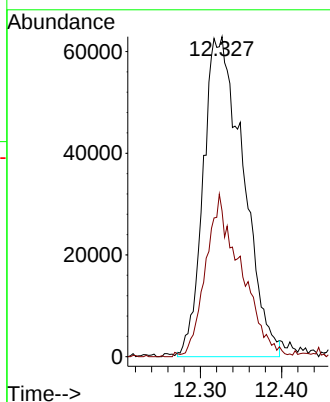
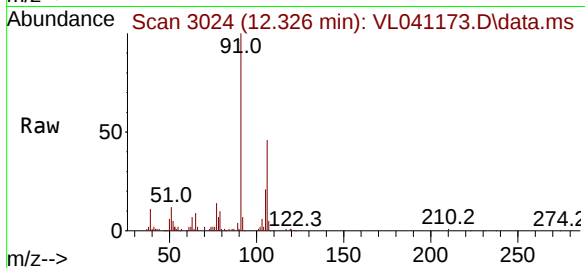
#59
m/p-Xylene
Concen: 0.809 ppbv m
RT: 12.326 min Scan# 3050
Delta R.T. -0.022 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 91 Resp: 21392
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2

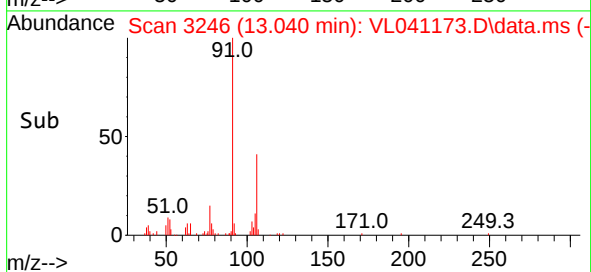
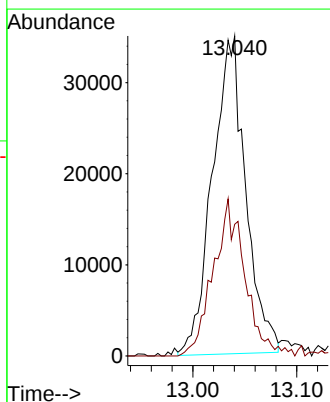
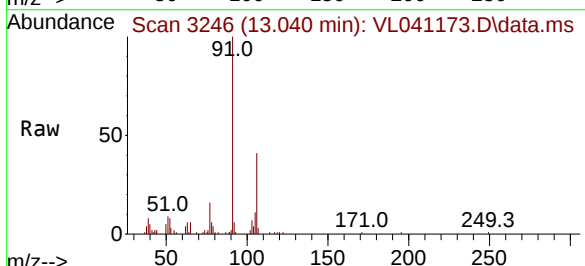
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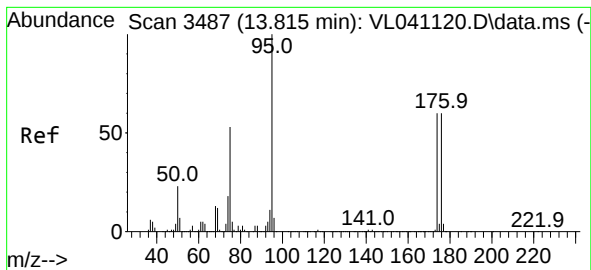
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#60
o-Xylene
Concen: 0.310 ppbv
RT: 13.040 min Scan# 3246
Delta R.T. 0.006 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

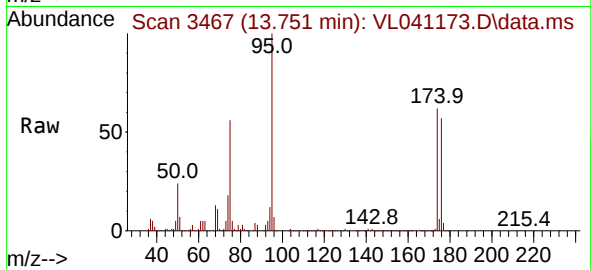
Tgt Ion: 91 Resp: 77686
Ion Ratio Lower Upper
91 100
106 47.6 22.9 68.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.490 ppbv
RT: 13.751 min Scan# 3487
Delta R.T. 0.003 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36

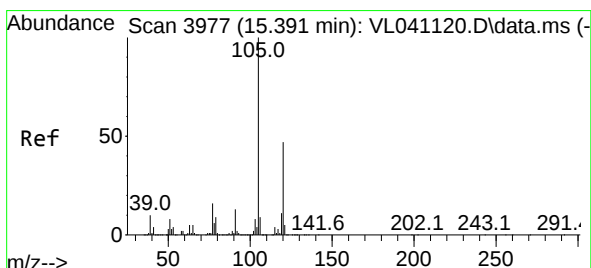
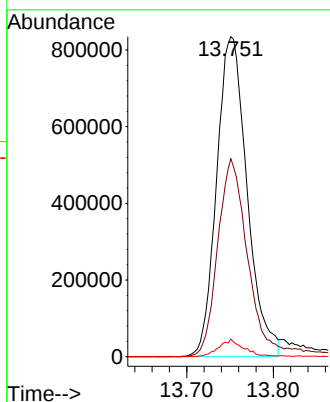
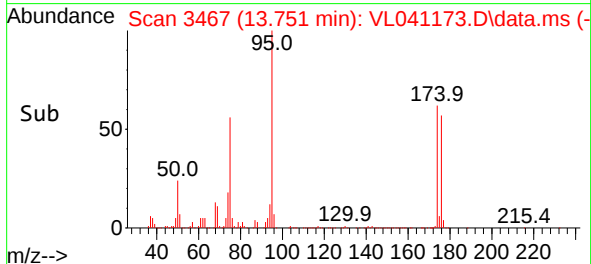
Instrument :
MSVOA_L
ClientSampleId :
IA2



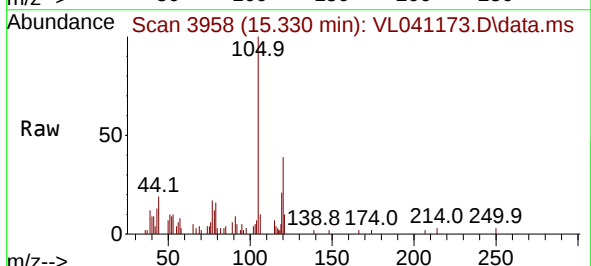
Tgt Ion: 95 Resp: 2040569
Ion Ratio Lower Upper
95 100
174 63.8 49.3 73.9
175 4.7 3.6 5.4

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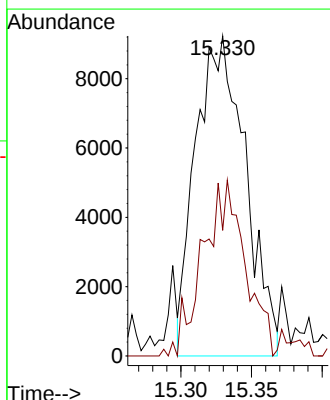
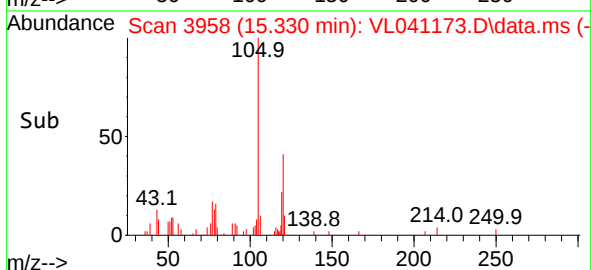
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024

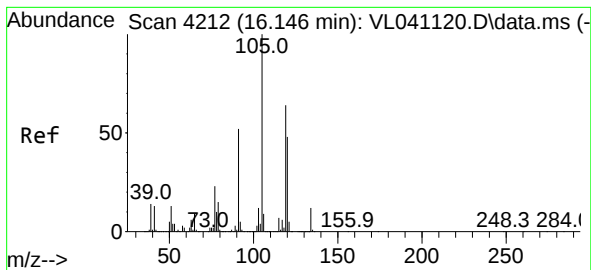


#73
1,3,5-Trimethylbenzene
Concen: 0.092 ppbv m
RT: 15.330 min Scan# 3958
Delta R.T. 0.003 min
Lab File: VL041173.D
Acq: 25 Apr 2024 16:36



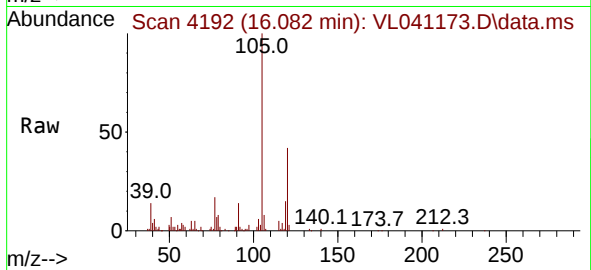
Tgt Ion:105 Resp: 22676
Ion Ratio Lower Upper
105 100
120 39.2 37.8 56.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.363 ppbv
 RT: 16.082 min Scan# 4192
 Delta R.T. 0.000 min
 Lab File: VL041173.D
 Acq: 25 Apr 2024 16:36

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion:	105	Resp:	102640
Ion	Ratio	Lower	Upper
105	100		
120	41.6	38.9	58.3
91	13.8	43.0	64.6
77	16.2	18.6	28.0

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/26/2024
 Supervised By :Mahesh Dadoda 04/26/2024

