

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011923\
 Data File : VL040110.D
 Acq On : 19 Jan 2023 12:59
 Operator : SY/MD
 Sample : 01223-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/20/2023
 Supervised By :Mahesh Dadoda 01/20/2023

Quant Time: Jan 20 02:05:37 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M

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

QLast Update : Mon Jan 16 14:40:47 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	1020999	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2570723	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2189540	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1745641	9.593	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.719	85	101079	0.565	ppbv	98
3) Chlorodifluoromethane	2.661	51	43431m	0.355	ppbv	
4) Chloromethane	2.806	50	32936	0.435	ppbv	91
9) Propene	2.687	41	74027m	1.455	ppbv	
11) Trichlorofluoromethane	3.552	101	40445	0.226	ppbv	86
13) Ethanol	3.237	45	178417m	38.098	ppbv	
15) Acetone	3.465	43	428258	3.497	ppbv	96
19) Isopropyl Alcohol	3.581	45	125022	2.087	ppbv #	93
20) Methylene Chloride	3.925	84	541457	10.023	ppbv	97
26) Hexane	5.208	57	271610	2.877	ppbv #	43
34) 2-Butanone	4.800	43	32247	0.265	ppbv	97
35) Carbon Tetrachloride	6.497	117	10801m	0.074	ppbv	
36) Benzene	6.369	78	76432	0.402	ppbv	99
44) 2,2,4-Trimethylpentane	7.333	57	33603	0.106	ppbv #	66
52) Tetrachloroethene	10.616	164	2445m	0.039	ppbv	
53) Toluene	9.221	91	169130m	0.834	ppbv	
58) Ethyl Benzene	12.105	91	28723m	0.118	ppbv	
59) m/p-Xylene	12.349	91	78454m	0.357	ppbv	
60) o-Xylene	13.073	91	25098m	0.120	ppbv	

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

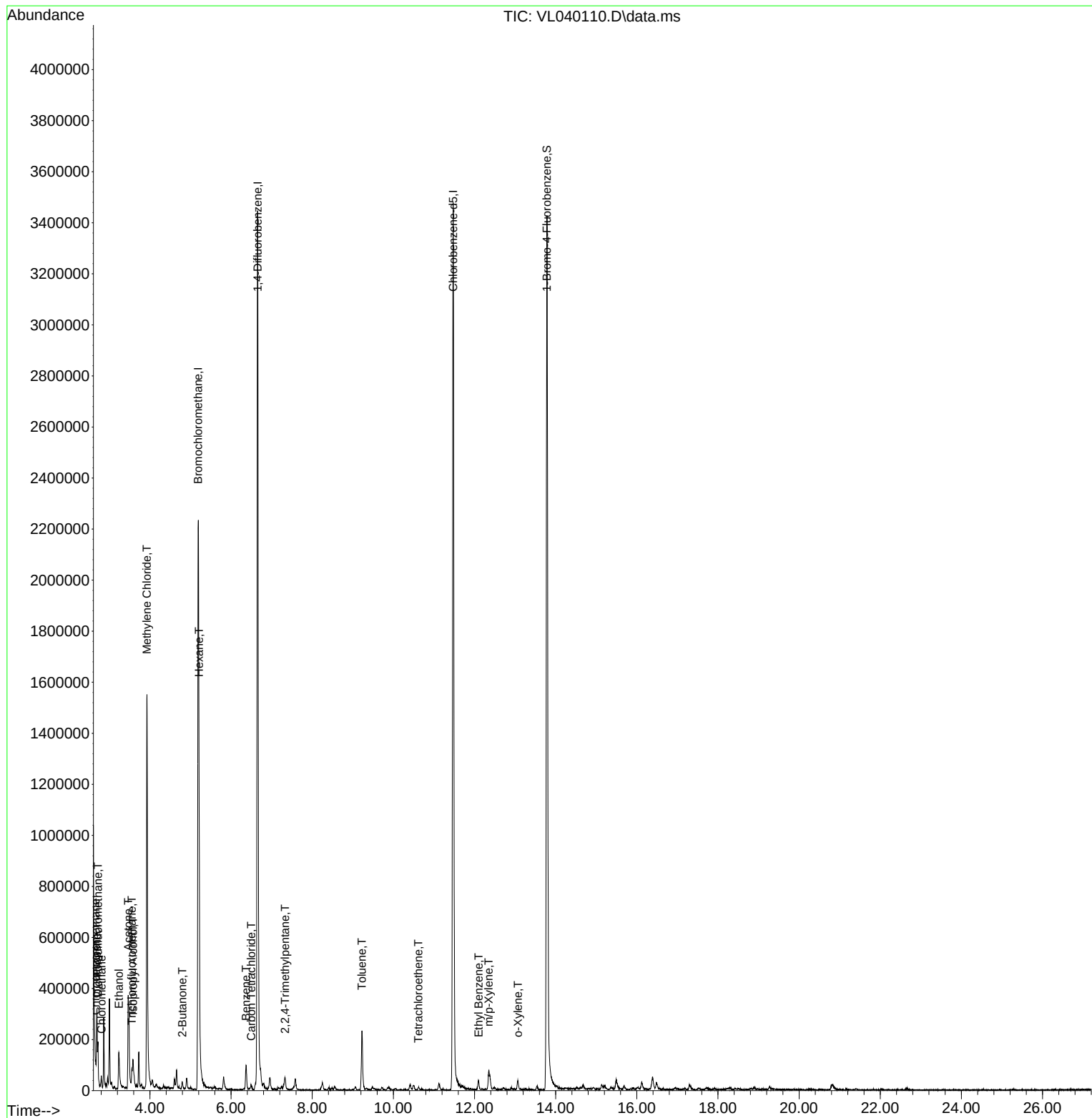
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011923\
Data File : VL040110.D
Acq On : 19 Jan 2023 12:59
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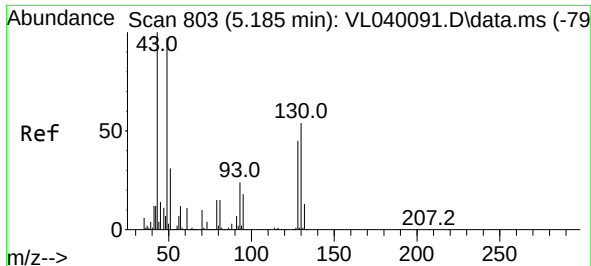
Instrument :
MSVOA_L
ClientSampleId :
AP-1

Quant Time: Jan 20 02:05:37 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Jan 16 14:40:47 2023
Response via : Initial Calibration

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Supervised By : Mahesh Dadoda 01/20/2023





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.189 min Scan# 80

Delta R.T. 0.004 min

Lab File: VL040110.D

Acq: 19 Jan 2023 12:59

Instrument :

MSVOA_L

ClientSampleId :

AP-1

Tgt Ion: 49 Resp: 102099

Ion Ratio Lower Upper

49 100

128 47.2 23.6 71.0

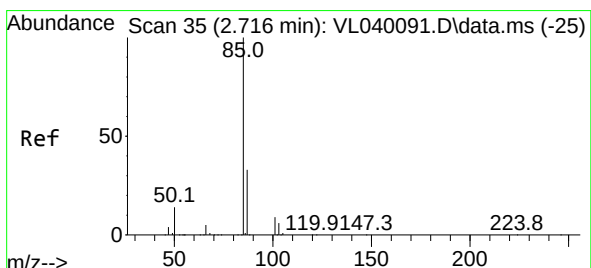
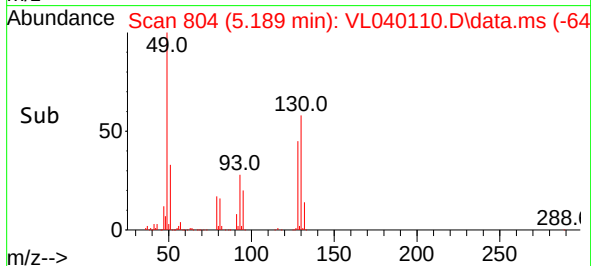
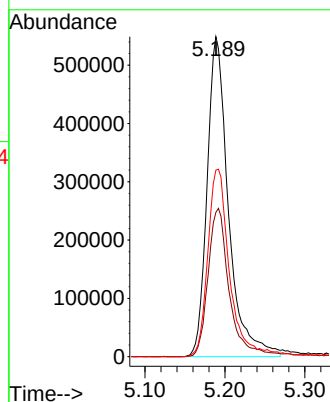
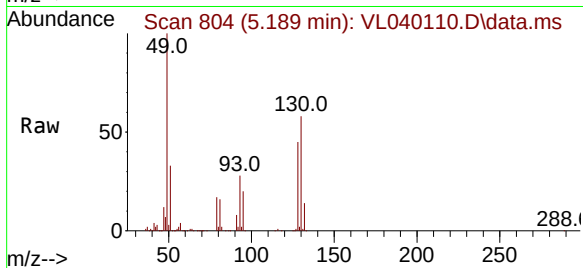
130 61.1 29.8 89.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/20/2023

Supervised By :Mahesh Dadoda 01/20/2023



#2

Dichlorodifluoromethane

Concen: 0.565 ppbv

RT: 2.719 min Scan# 36

Delta R.T. 0.003 min

Lab File: VL040110.D

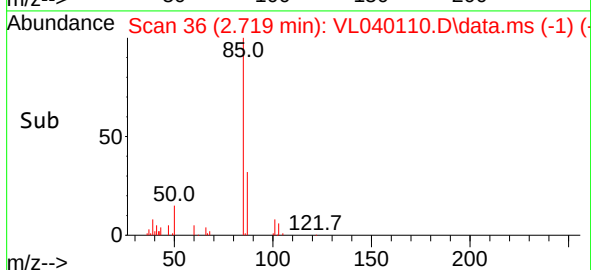
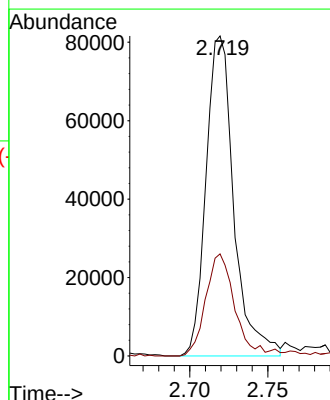
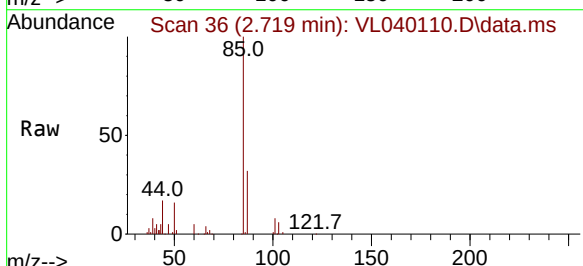
Acq: 19 Jan 2023 12:59

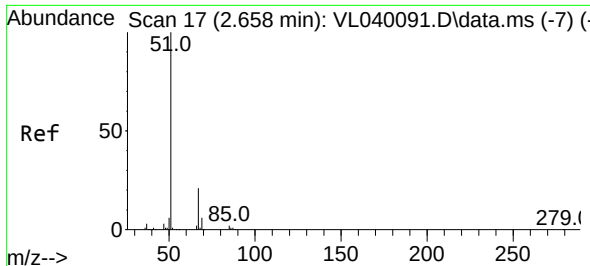
Tgt Ion: 85 Resp: 101079

Ion Ratio Lower Upper

85 100

87 31.9 26.5 39.7





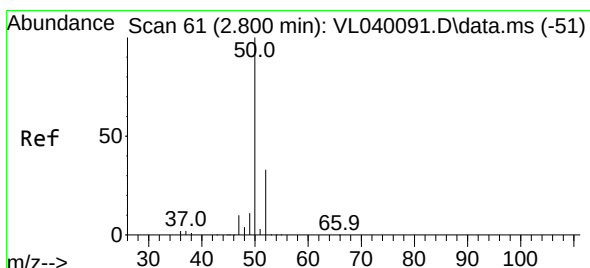
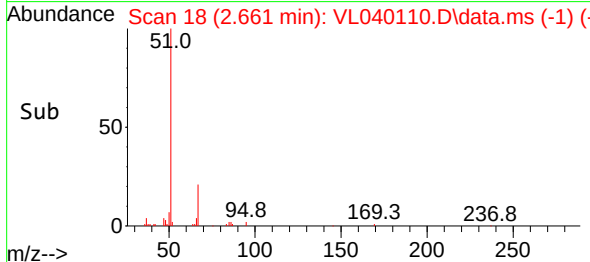
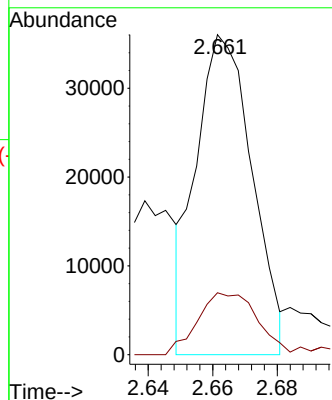
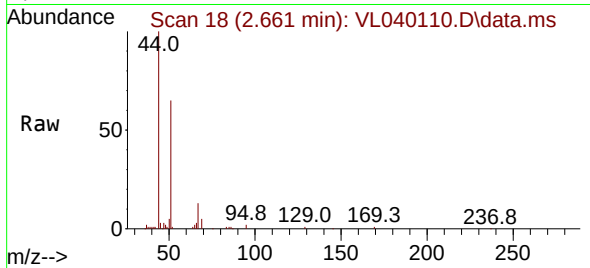
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Chlorodifluoromethane
Concen: 0.355 ppbv
RT: 2.661 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

Instrument :
MSVOA_L
ClientSampleId :
AP-1

Tgt Ion: 51 Resp: 4343
Ion Ratio Lower Upper
51 100
67 23.9 16.4 24.6

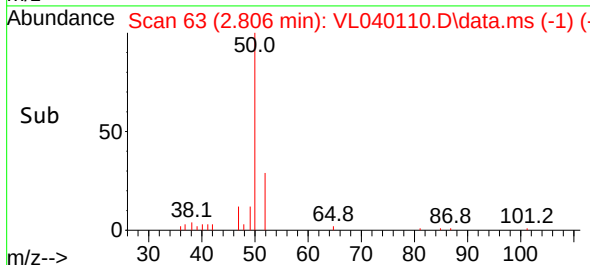
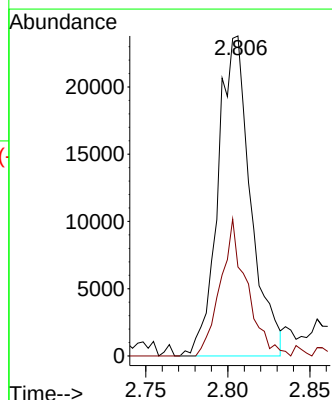
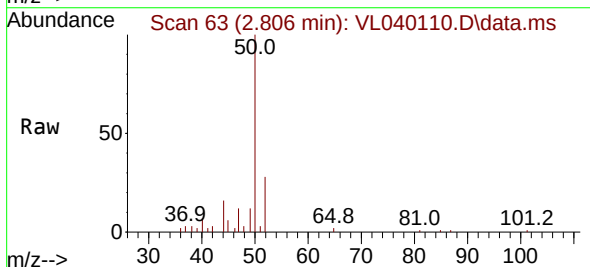
Manual Integrations
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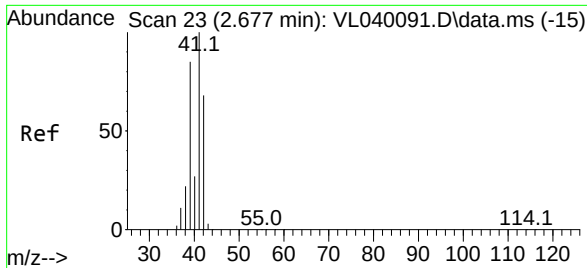
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023



#4
Chloromethane
Concen: 0.435 ppbv
RT: 2.806 min Scan# 63
Delta R.T. 0.007 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

Tgt Ion: 50 Resp: 32936
Ion Ratio Lower Upper
50 100
52 27.8 26.5 39.7





#9

Propene

Concen: 1.455 ppbv m

RT: 2.687 min Scan# 2

Delta R.T. 0.010 min

Lab File: VL040110.D

Acq: 19 Jan 2023 12:59

Instrument :

MSVOA_L

ClientSampleId :

AP-1

Tgt Ion: 41 Resp: 7402

Ion Ratio Lower Upper

41 100

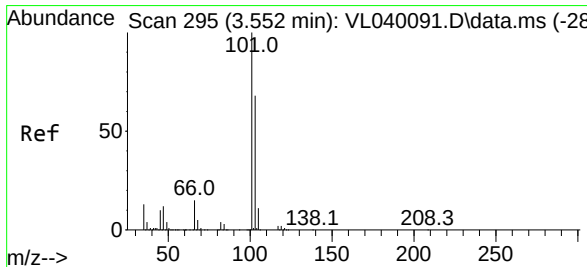
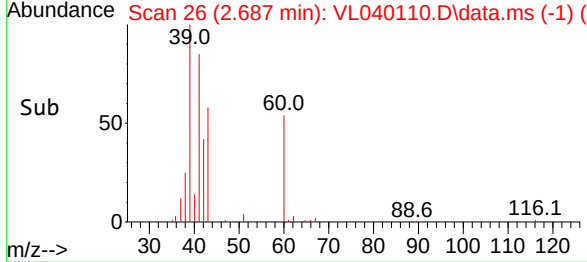
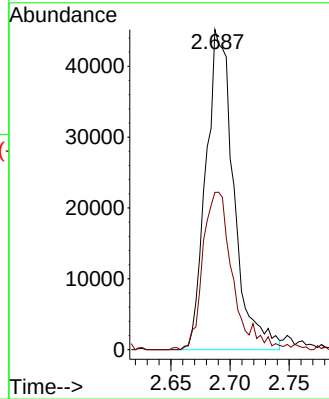
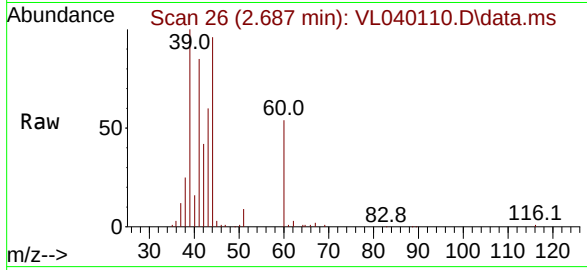
42 62.4 55.6 83.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/20/2023

Supervised By :Mahesh Dadoda 01/20/2023



#11

Trichlorofluoromethane

Concen: 0.226 ppbv

RT: 3.552 min Scan# 295

Delta R.T. 0.000 min

Lab File: VL040110.D

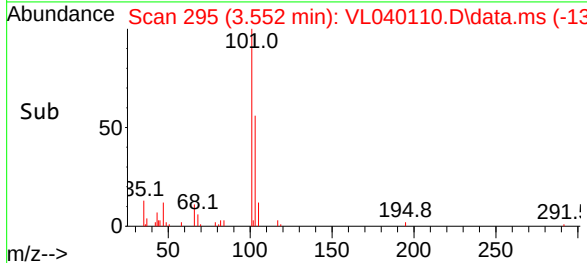
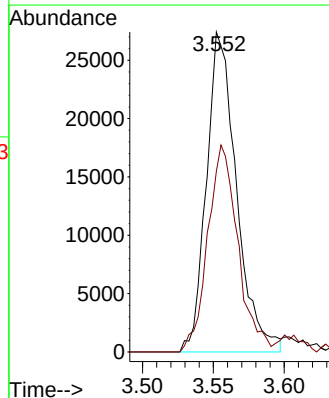
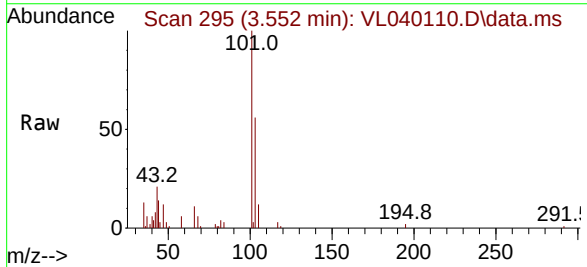
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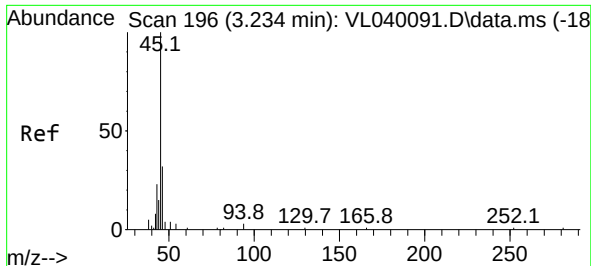
Tgt Ion:101 Resp: 40445

Ion Ratio Lower Upper

101 100

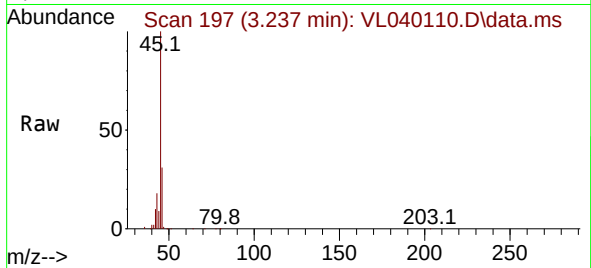
103 56.5 54.0 81.0





#13
Ethanol
Concen: 38.098 ppbv m
RT: 3.237 min Scan# 197
Delta R.T. 0.003 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

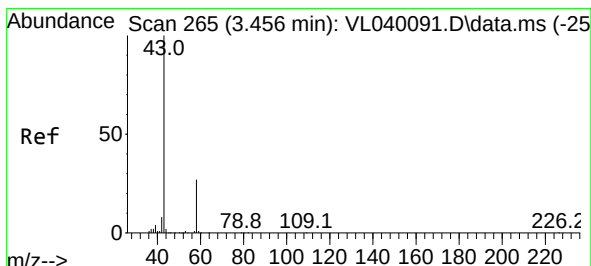
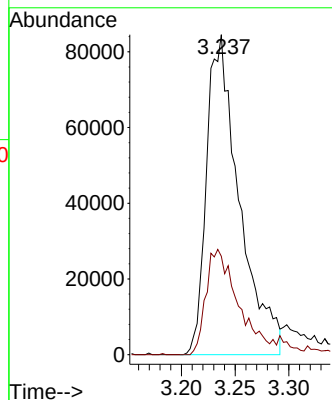
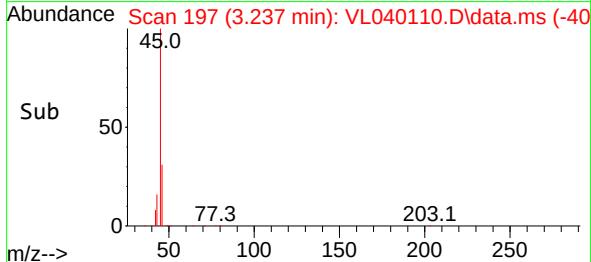
Instrument :
MSVOA_L
ClientSampleId :
AP-1



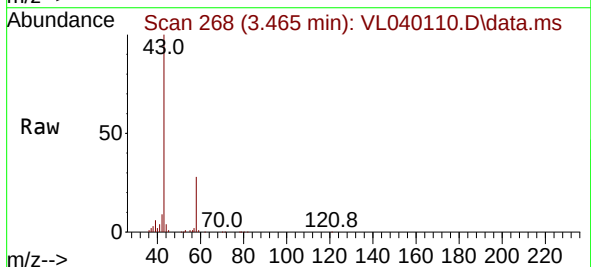
Tgt Ion: 45 Resp: 17841
Ion Ratio Lower Upper
45 100
46 35.1 14.8 59.2

Manual Integrations
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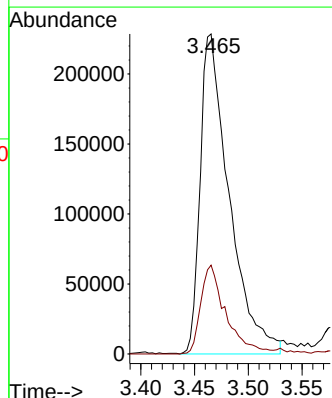
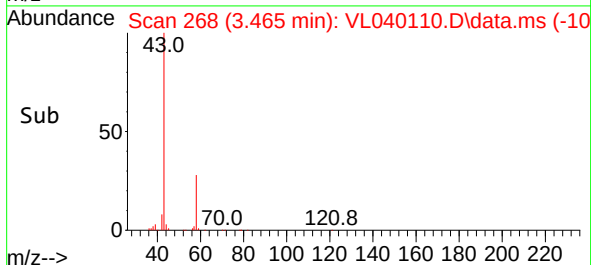
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023

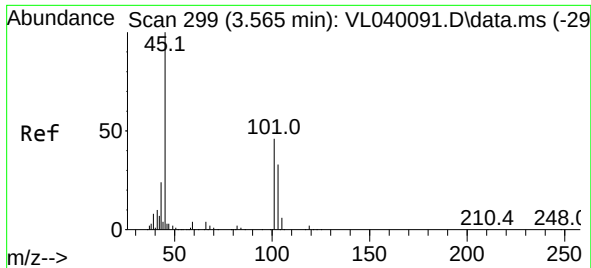


#15
Acetone
Concen: 3.497 ppbv
RT: 3.465 min Scan# 268
Delta R.T. 0.010 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59



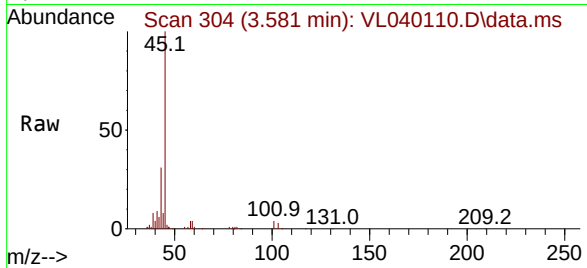
Tgt Ion: 43 Resp: 428258
Ion Ratio Lower Upper
43 100
58 25.0 21.8 32.8





#19
Isopropyl Alcohol
Concen: 2.087 ppbv
RT: 3.581 min Scan# 304
Delta R.T. 0.016 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

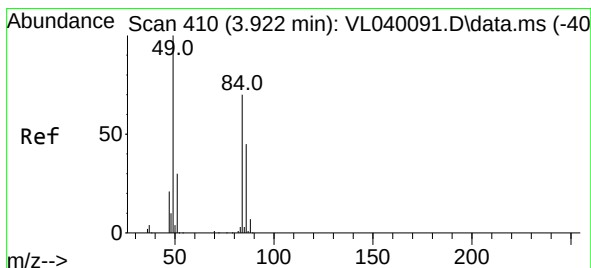
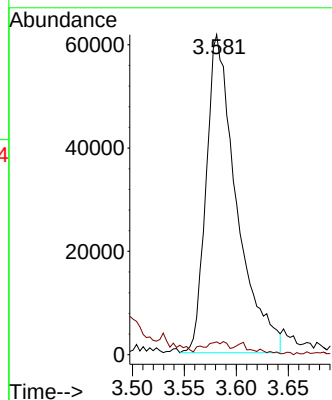
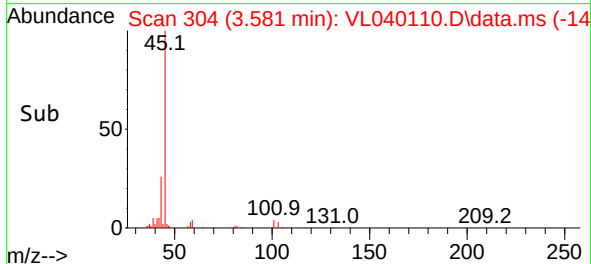
Instrument :
MSVOA_L
ClientSampleId :
AP-1



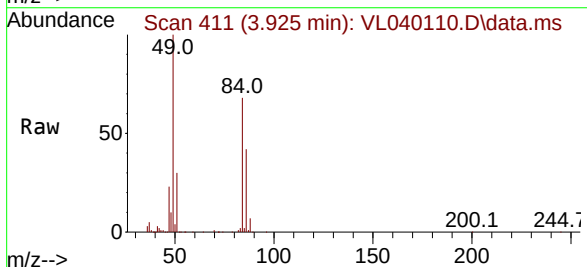
Tgt Ion: 45 Resp: 12502
Ion Ratio Lower Upper
45 100
58 5.7 2.6 4.0

Manual Integrations
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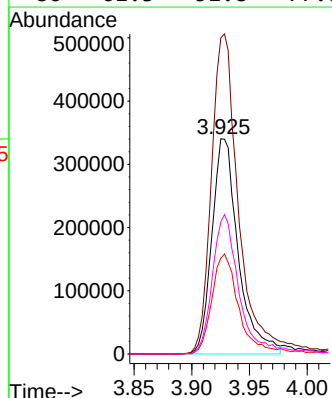
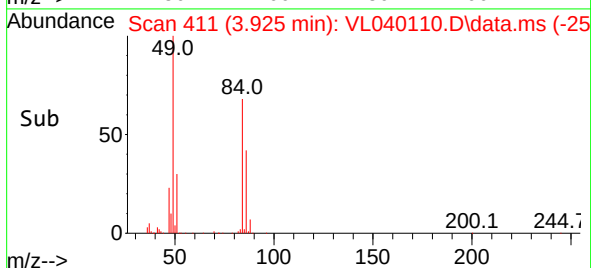
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023

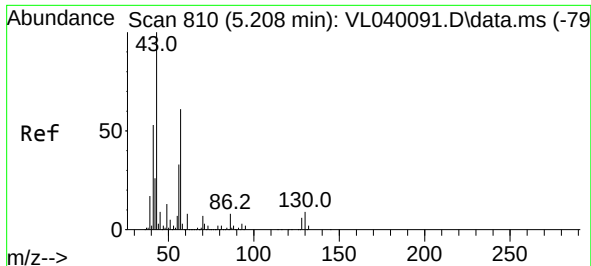


#20
Methylene Chloride
Concen: 10.023 ppbv
RT: 3.925 min Scan# 411
Delta R.T. 0.003 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59



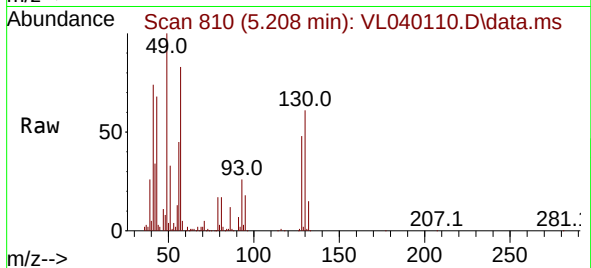
Tgt Ion: 84 Resp: 541457
Ion Ratio Lower Upper
84 100
49 146.8 114.6 171.8
51 44.4 34.3 51.5
86 61.3 51.8 77.8





#26
Hexane
Concen: 2.877 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.000 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

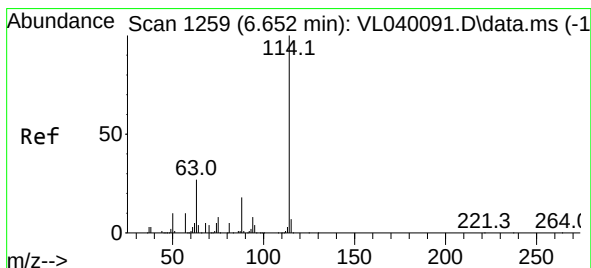
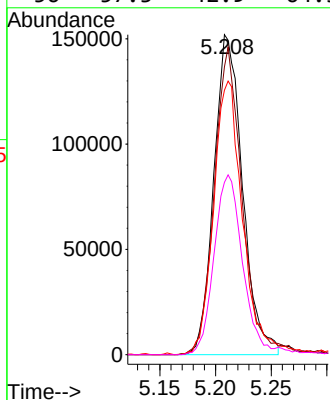
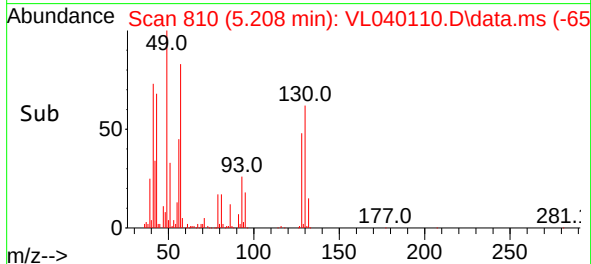
Instrument :
MSVOA_L
ClientSampleId :
AP-1



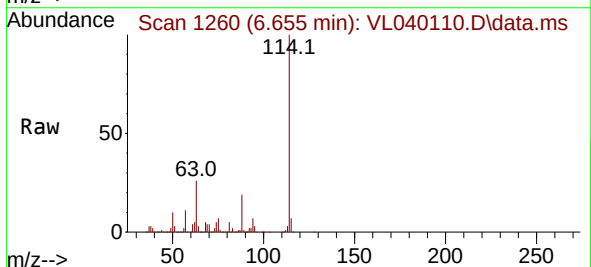
Tgt Ion: 57 Resp: 271610
Ion Ratio Lower Upper
57 100
41 94.9 72.2 108.4
43 89.0 192.1 288.1
56 57.3 42.9 64.3

Manual Integrations
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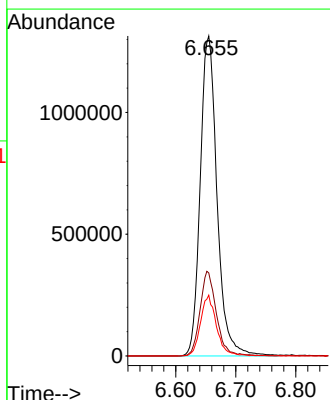
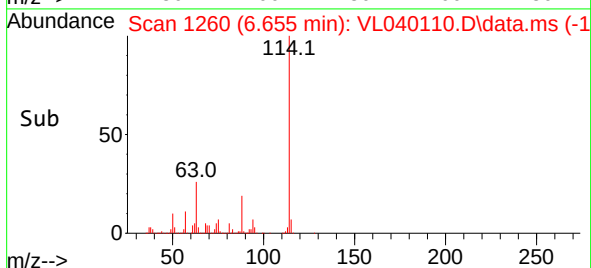
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023

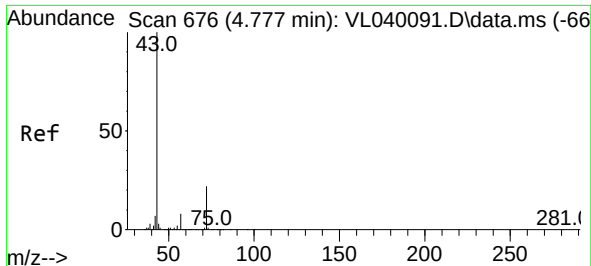


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. 0.003 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59



Tgt Ion:114 Resp: 2570723
Ion Ratio Lower Upper
114 100
63 25.8 21.8 32.8
88 18.1 14.8 22.2





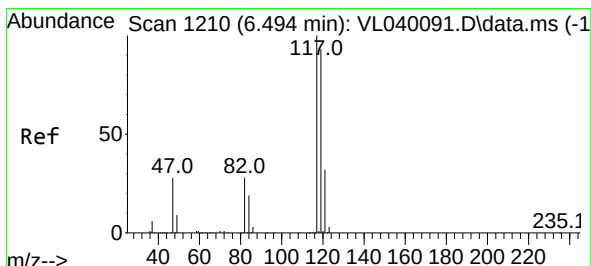
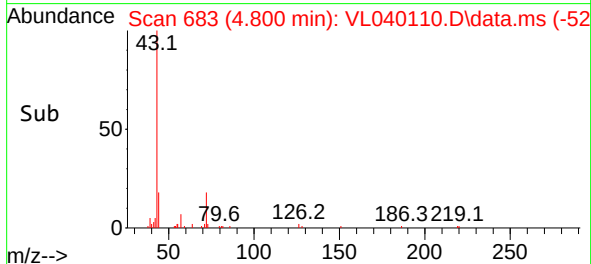
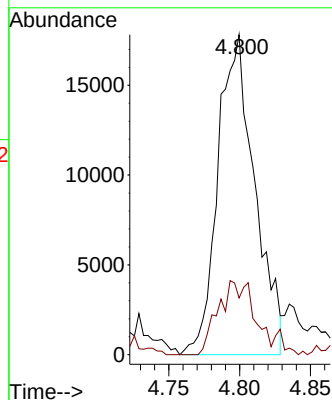
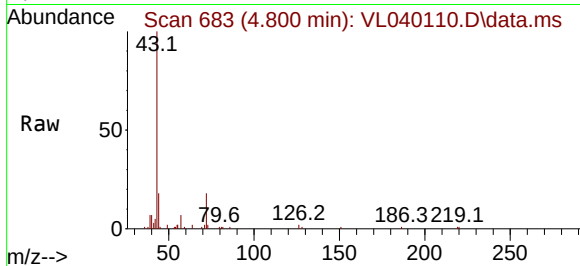
#34
2-Butanone
Concen: 0.265 ppbv
RT: 4.800 min Scan# 61
Delta R.T. 0.023 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

Instrument :
MSVOA_L
ClientSampleId :
AP-1

Tgt Ion: 43 Resp: 3224
Ion Ratio Lower Upper
43 100
72 24.5 18.4 27.6

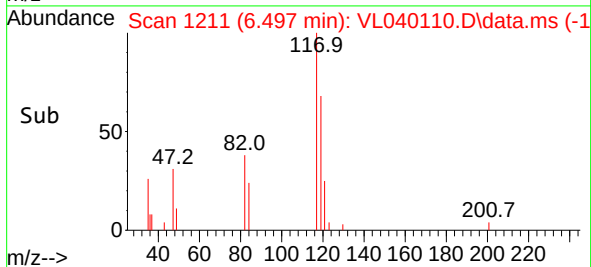
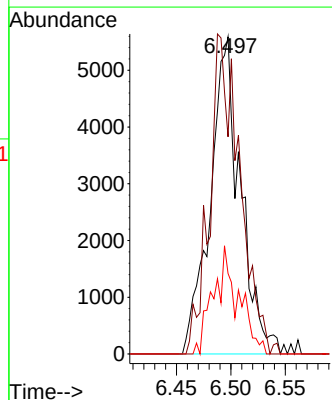
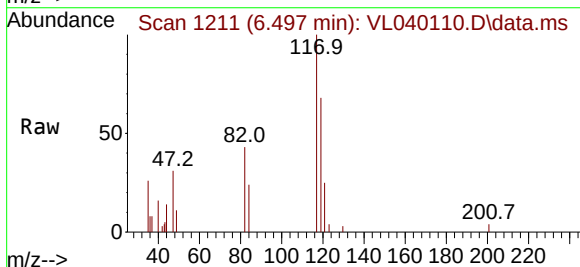
Manual Integrations
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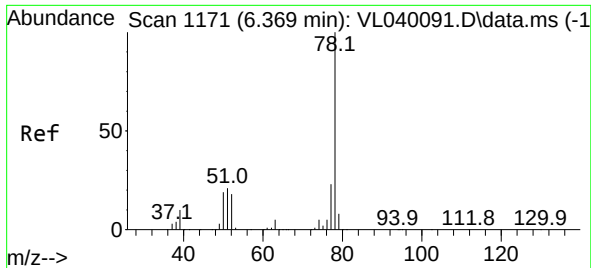
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023



#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 6.497 min Scan# 1211
Delta R.T. 0.003 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

Tgt Ion:117 Resp: 10801
Ion Ratio Lower Upper
117 100
119 68.5 74.5 111.7#
121 25.4 25.4 38.0





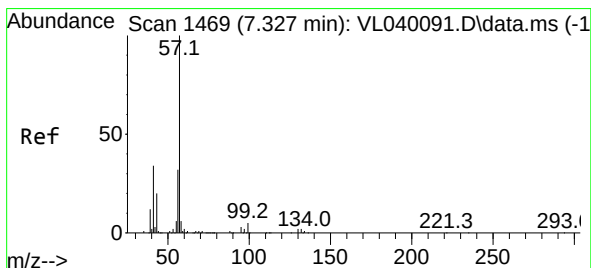
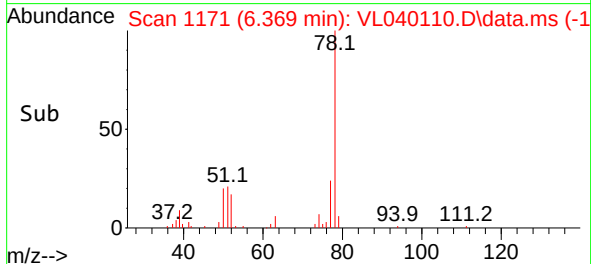
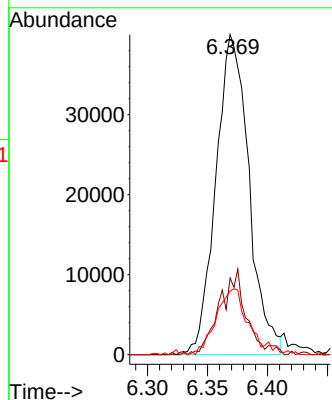
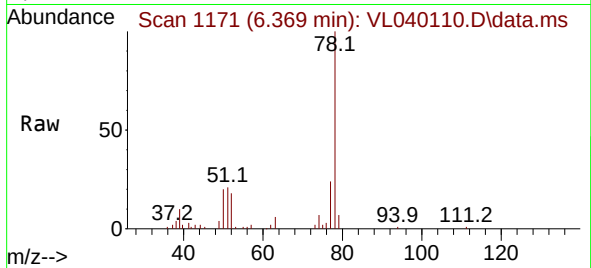
#36
Benzene
Concen: 0.402 ppbv
RT: 6.369 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

Instrument :
MSVOA_L
ClientSampleId :
AP-1

Tgt Ion: 78 Resp: 7643
Ion Ratio Lower Upper
78 100
77 23.3 18.1 27.1
50 19.9 15.6 23.4

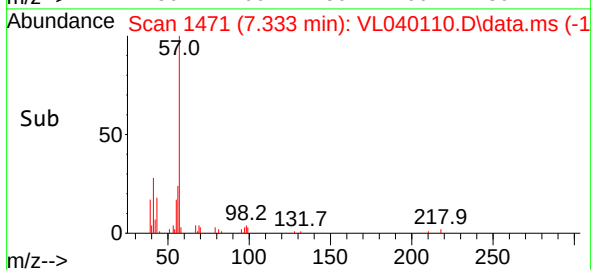
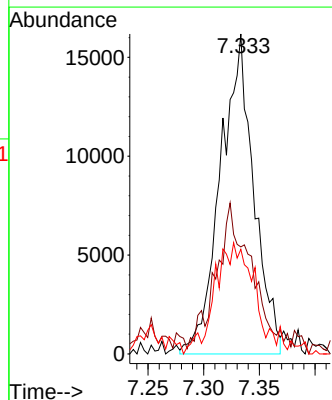
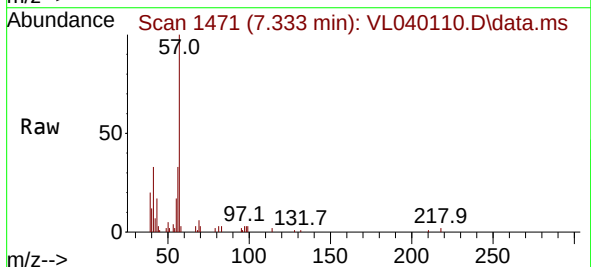
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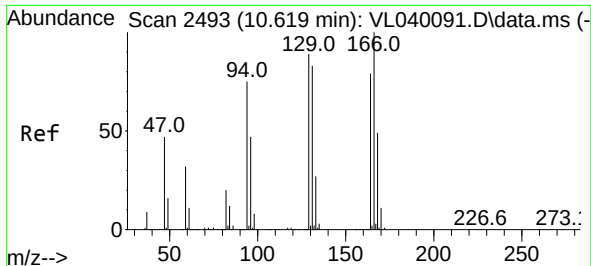
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023



#44
2,2,4-Trimethylpentane
Concen: 0.106 ppbv
RT: 7.333 min Scan# 1471
Delta R.T. 0.007 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

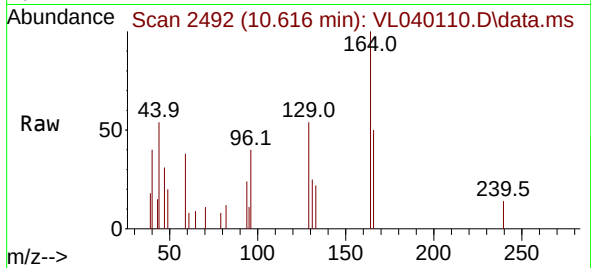
Tgt Ion: 57 Resp: 33603
Ion Ratio Lower Upper
57 100
41 58.1 27.1 40.7#
56 45.2 25.0 37.4#





#52
Tetrachloroethene
Concen: 0.039 ppbv m
RT: 10.616 min Scan# 2492
Delta R.T. -0.003 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

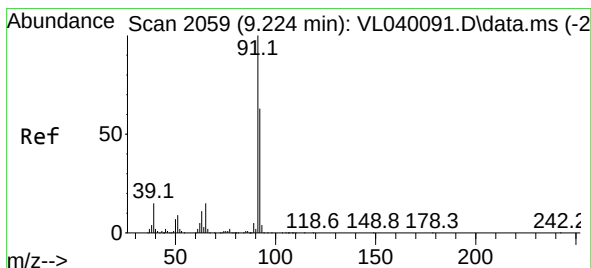
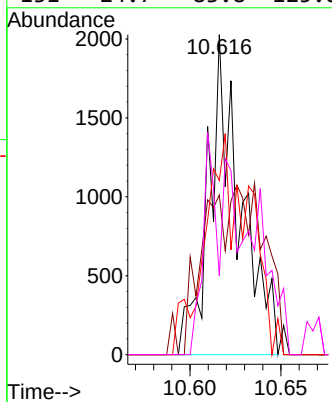
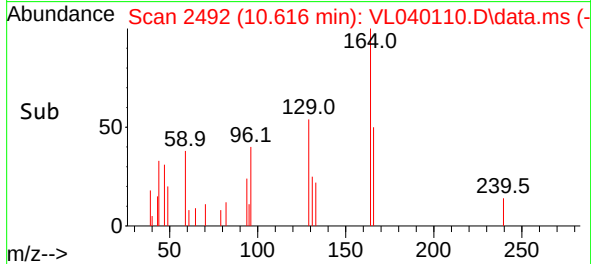
Instrument : MSVOA_L
ClientSampleId : AP-1



Tgt Ion:164 Resp: 2449
Ion Ratio Lower Upper
164 100
166 49.9 101.2 151.8
129 54.5 90.2 135.2
131 24.7 83.8 125.8

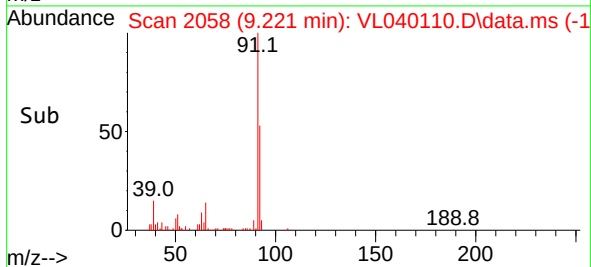
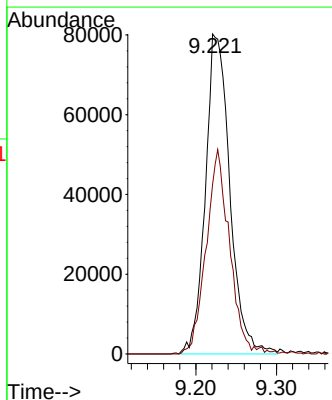
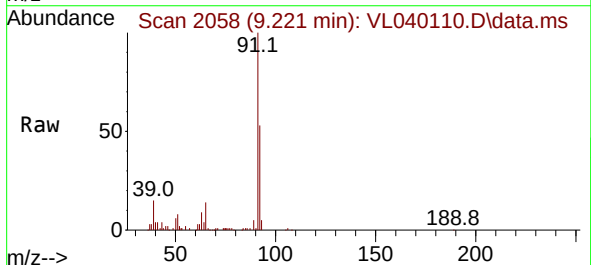
Manual Integrations
APPROVED

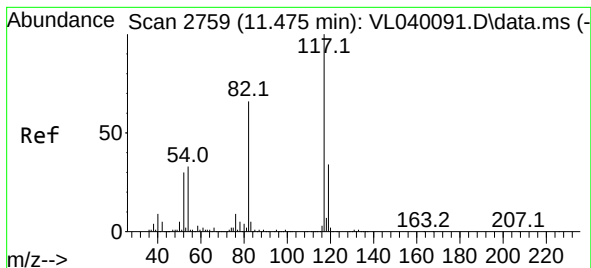
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023



#53
Toluene
Concen: 0.834 ppbv m
RT: 9.221 min Scan# 2058
Delta R.T. -0.003 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

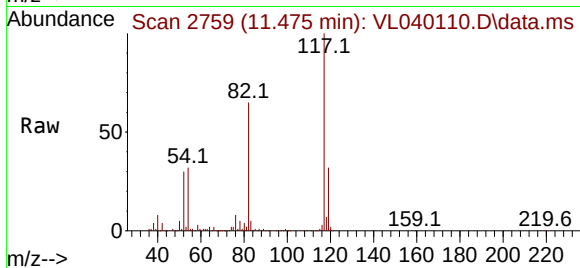
Tgt Ion: 91 Resp: 169130
Ion Ratio Lower Upper
91 100
92 61.6 48.3 72.5





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.475 min Scan# 2759
Delta R.T. 0.000 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59

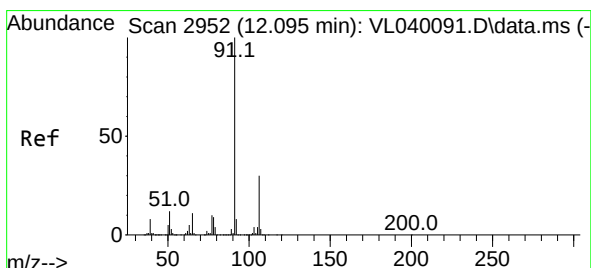
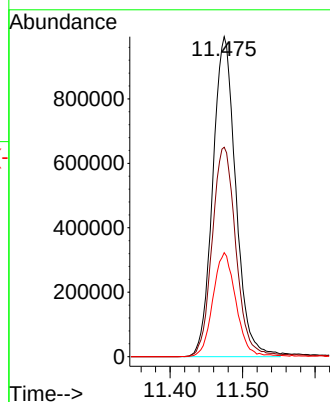
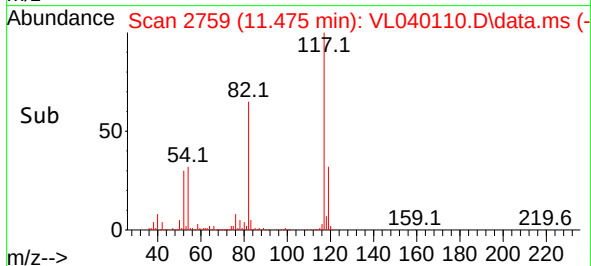
Instrument :
MSVOA_L
ClientSampleId :
AP-1



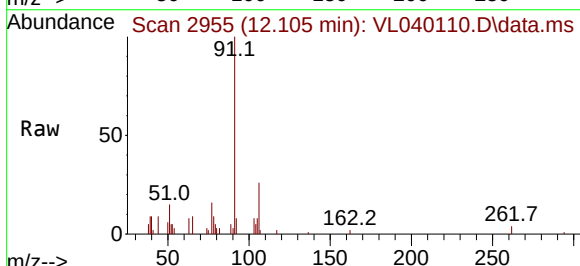
Tgt Ion: 117 Resp: 2189540
Ion Ratio Lower Upper
117 100
82 68.5 54.4 81.6
119 32.9 26.8 40.2

Manual Integrations
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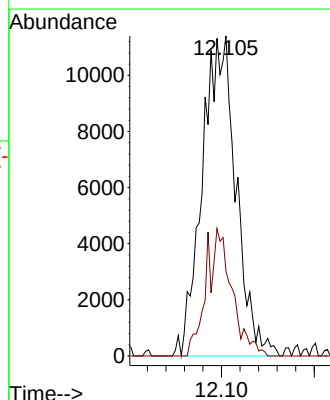
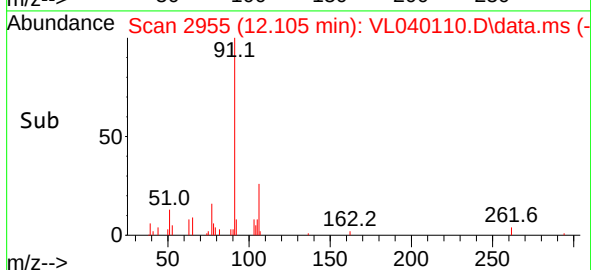
Reviewed By :Semsettin Yesilyurt 01/20/2023
Supervised By :Mahesh Dadoda 01/20/2023

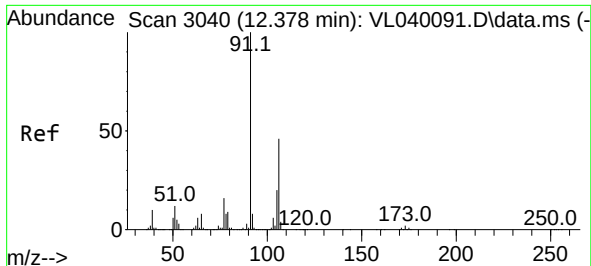


#58
Ethyl Benzene
Concen: 0.118 ppbv m
RT: 12.105 min Scan# 2955
Delta R.T. 0.010 min
Lab File: VL040110.D
Acq: 19 Jan 2023 12:59



Tgt Ion: 91 Resp: 28723
Ion Ratio Lower Upper
91 100
106 26.4 23.7 35.5





#59

m/p-Xylene

Concen: 0.357 ppbv m

RT: 12.349 min Scan# 3040

Delta R.T. -0.029 min

Lab File: VL040110.D

Acq: 19 Jan 2023 12:59

Instrument :

MSVOA_L

ClientSampleId :

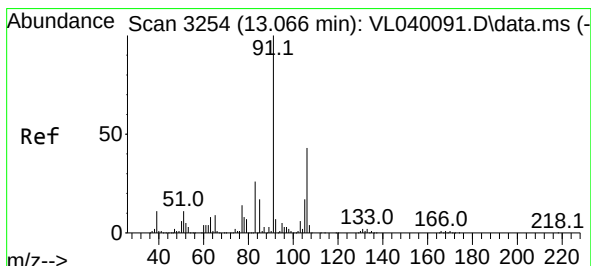
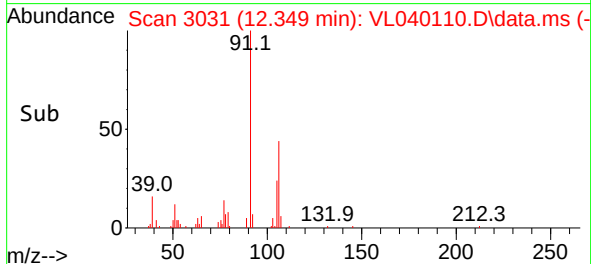
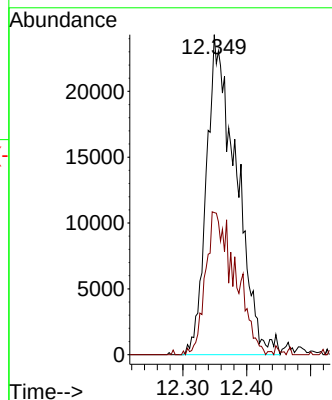
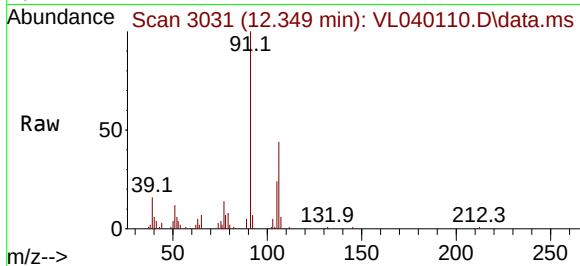
AP-1

Tgt Ion: 91 Resp: 78454
 Ion Ratio Lower Upper
 91 100
 106 0.0 34.2 51.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/20/2023
 Supervised By :Mahesh Dadoda 01/20/2023



#60

o-Xylene

Concen: 0.120 ppbv m

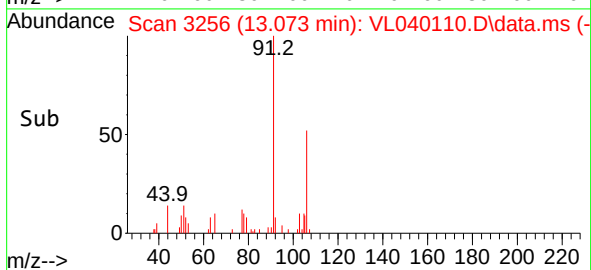
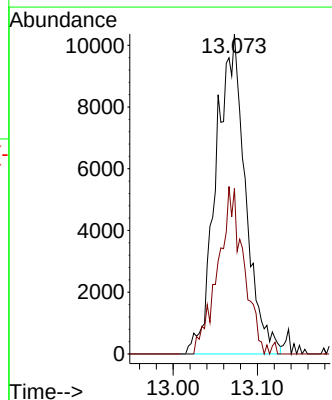
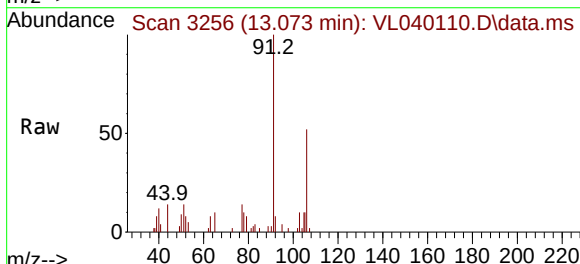
RT: 13.073 min Scan# 3256

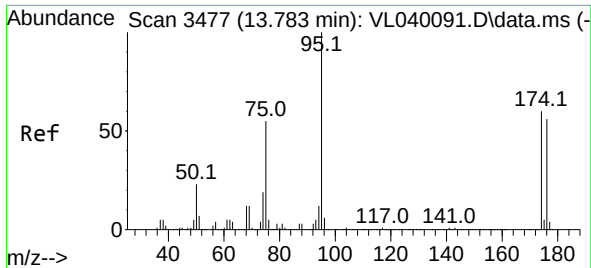
Delta R.T. 0.007 min

Lab File: VL040110.D

Acq: 19 Jan 2023 12:59

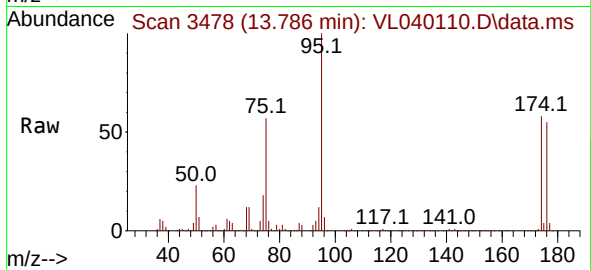
Tgt Ion: 91 Resp: 25098
 Ion Ratio Lower Upper
 91 100
 106 46.3 21.6 64.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.593 ppbv
 RT: 13.786 min Scan# 3478
 Delta R.T. 0.003 min
 Lab File: VL040110.D
 Acq: 19 Jan 2023 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-1



Tgt Ion: 95 Resp: 174564
 Ion Ratio Lower Upper
 95 100
 174 58.8 47.7 71.5
 175 4.4 3.4 5.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/20/2023
 Supervised By :Mahesh Dadoda 01/20/2023

