

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062223\
 Data File : VL040496.D
 Acq On : 22 Jun 2023 22:07
 Operator : SY/MD
 Sample : 03300-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/26/2023
 Supervised By :Mahesh Dadoda 06/27/2023

Quant Time: Jun 23 01:32:40 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M

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

QLast Update : Tue Jun 06 06:22:12 2023

Response via : Initial Calibration

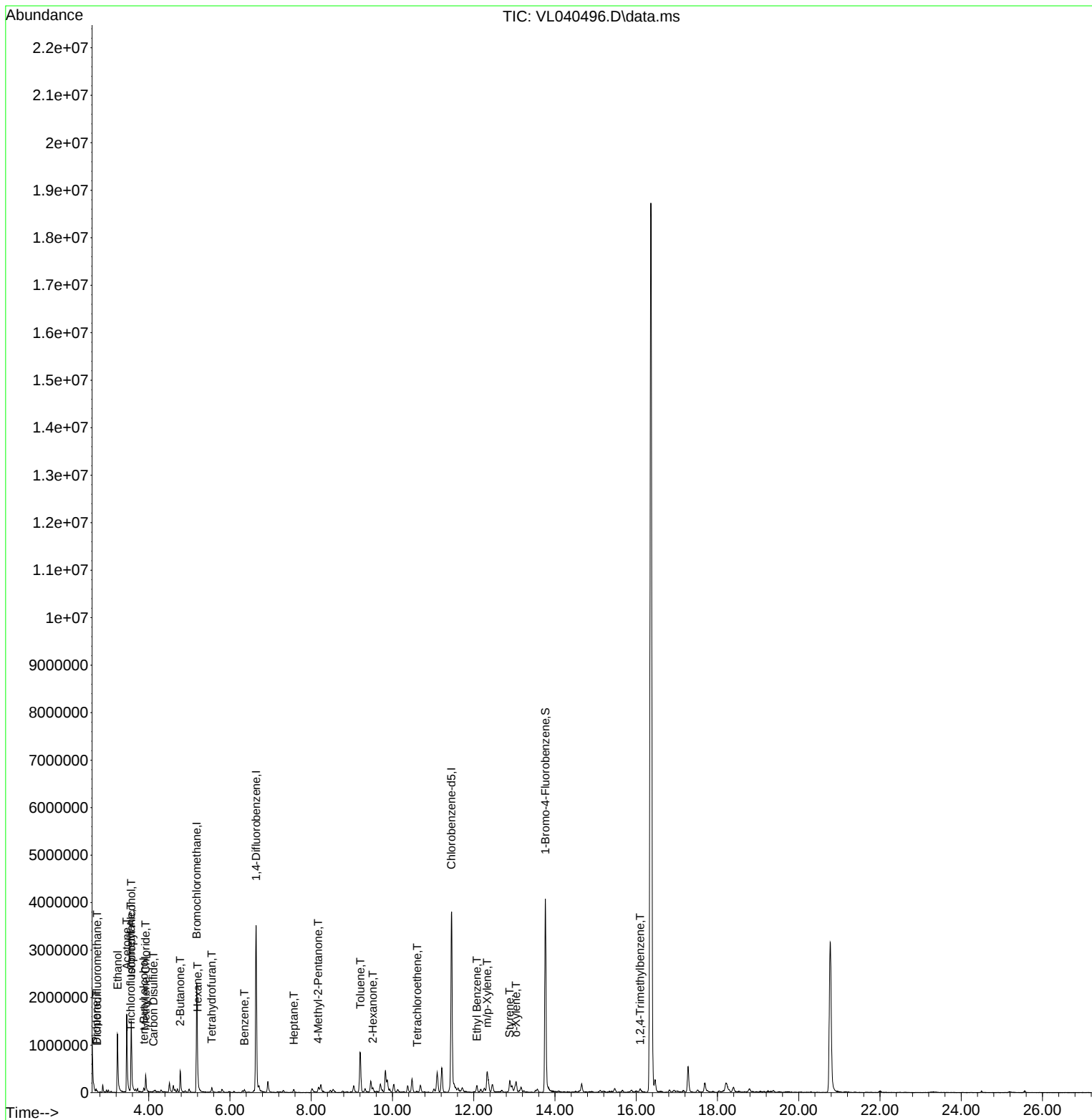
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

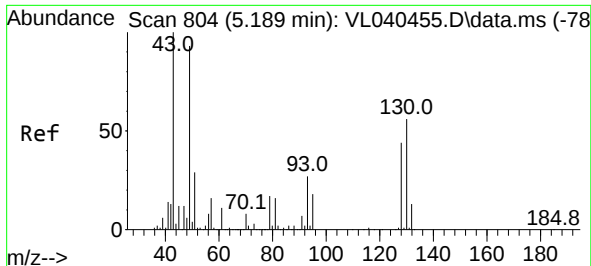
Internal Standards						
1) Bromochloromethane	5.182	49	1019605	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	2517915	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.452	117	2397210	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1977178	9.993	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.729	85	24693	0.111	ppbv	98
9) Propene	2.703	41	12863	0.250	ppbv	86
10) Heptane	7.568	43	17658	0.151	ppbv	86
11) Trichlorofluoromethane	3.555	101	22642m	0.125	ppbv	
13) Ethanol	3.234	45	1234973	115.806	ppbv	98
15) Acetone	3.462	43	1626606	13.227	ppbv	97
17) tert-Butyl alcohol	3.883	59	62497	0.618	ppbv	97
19) Isopropyl Alcohol	3.571	45	1502271	25.344	ppbv #	95
20) Methylene Chloride	3.925	84	108152	2.061	ppbv	98
26) Hexane	5.205	57	82809	0.785	ppbv #	56
27) Carbon Disulfide	4.118	76	17736	0.134	ppbv #	74
34) 2-Butanone	4.777	43	483431	3.982	ppbv	100
36) Benzene	6.356	78	38886	0.194	ppbv #	92
41) Tetrahydrofuran	5.552	42	43427	0.654	ppbv	94
50) 4-Methyl-2-Pentanone	8.172	43	74300m	0.457	ppbv	
51) 2-Hexanone	9.516	43	35245	0.312	ppbv #	49
52) Tetrachloroethene	10.610	164	2518m	0.040	ppbv	
53) Toluene	9.211	91	346363	1.642	ppbv	100
58) Ethyl Benzene	12.079	91	113450	0.391	ppbv	95
59) m/p-Xylene	12.333	91	437511	1.639	ppbv	96
60) o-Xylene	13.044	91	157033	0.620	ppbv	99
61) Styrene	12.883	104	83043m	0.762	ppbv	
74) 1,2,4-Trimethylbenzene	16.095	105	47979m	0.162	ppbv	

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

Manual Integrations

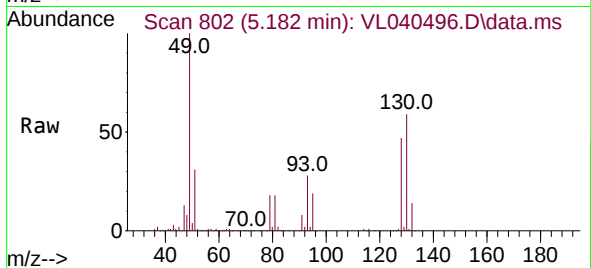
Quant Time: Jun 23 01:32:40 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jun 06 06:22:12 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

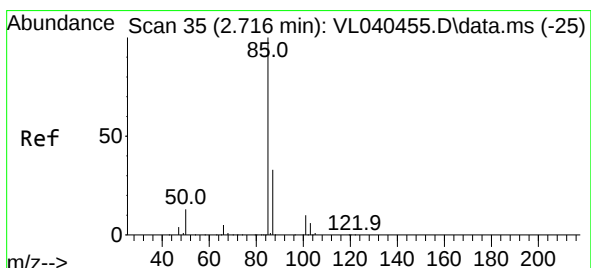
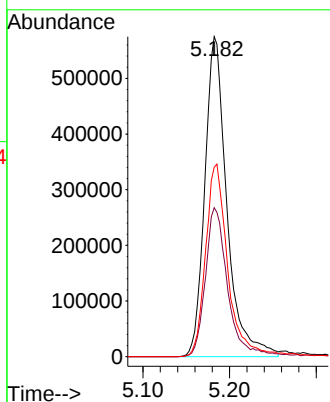
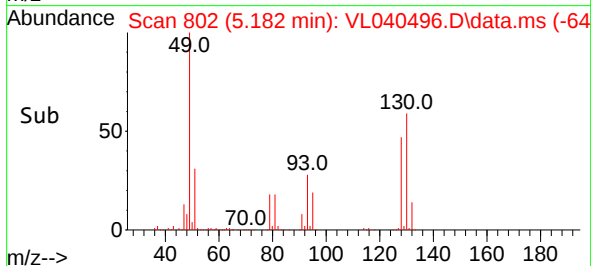
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 49 Resp: 101960
Ion Ratio Lower Upper
49 100
128 48.2 24.7 74.1
130 61.9 31.4 94.2

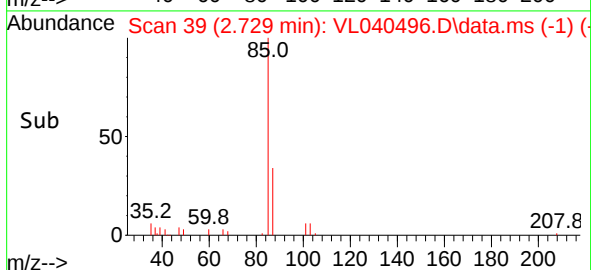
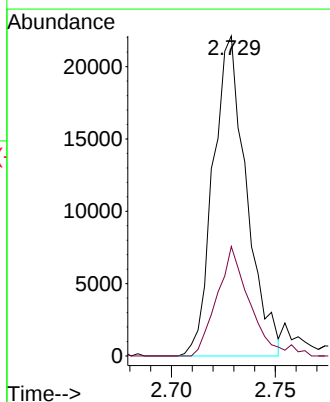
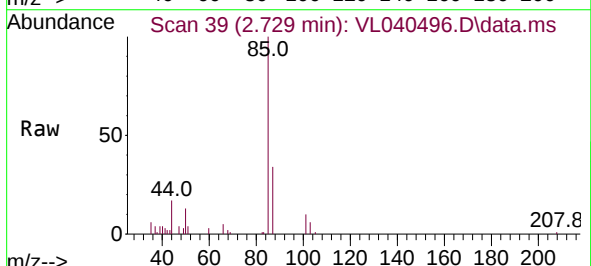
Manual Integrations
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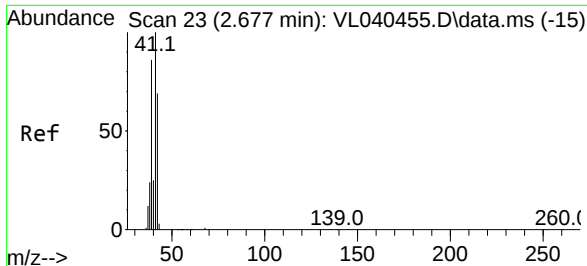
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#2
Dichlorodifluoromethane
Concen: 0.111 ppbv
RT: 2.729 min Scan# 39
Delta R.T. 0.013 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

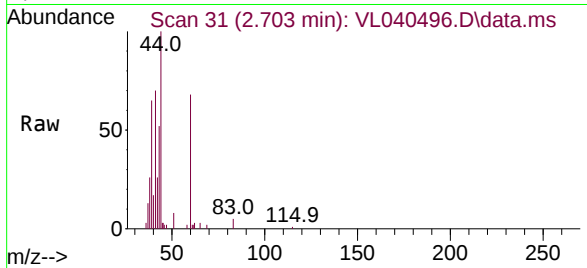
Tgt Ion: 85 Resp: 24693
Ion Ratio Lower Upper
85 100
87 34.2 26.6 39.8





#9
 Propene
 Concen: 0.250 ppbv
 RT: 2.703 min Scan# 31
 Delta R.T. 0.026 min
 Lab File: VL040496.D
 Acq: 22 Jun 2023 22:07

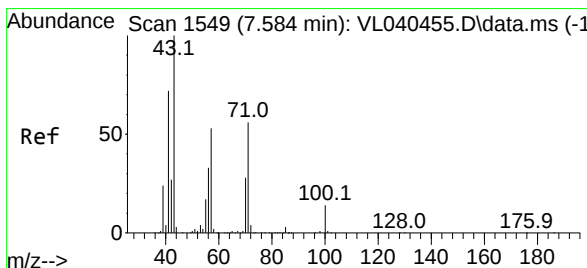
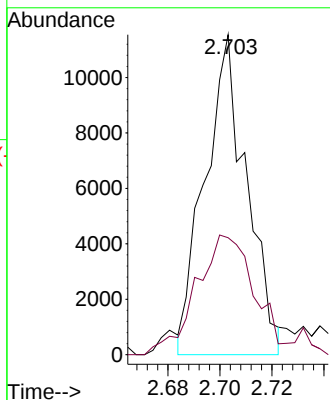
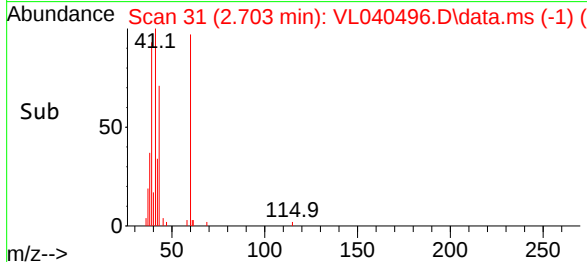
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1



Tgt Ion: 41 Resp: 1286
 Ion Ratio Lower Upper
 41 100
 42 58.4 56.2 84.2

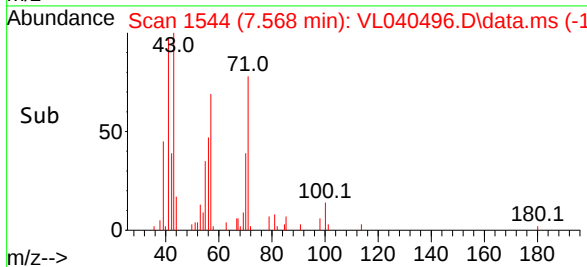
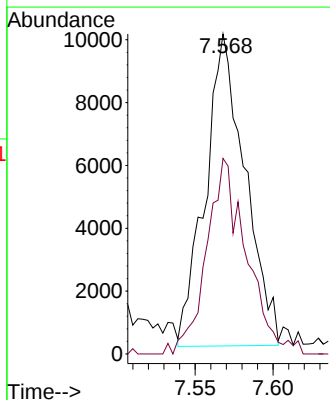
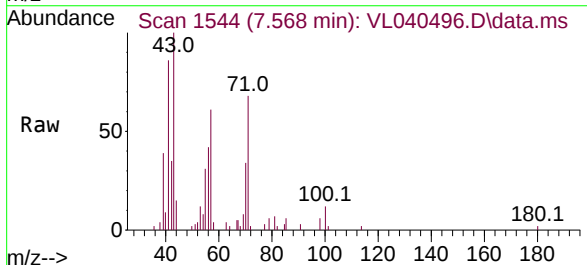
Manual Integrations
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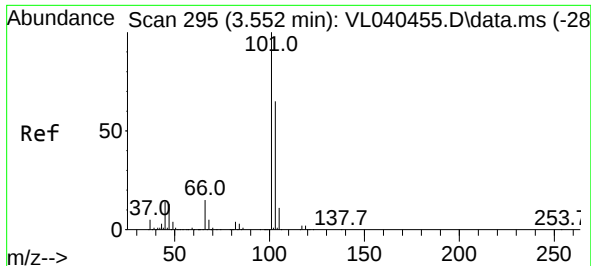
Reviewed By :Semsettin Yesilyurt 06/26/2023
 Supervised By :Mahesh Dadoda 06/27/2023



#10
 Heptane
 Concen: 0.151 ppbv
 RT: 7.568 min Scan# 1544
 Delta R.T. -0.016 min
 Lab File: VL040496.D
 Acq: 22 Jun 2023 22:07

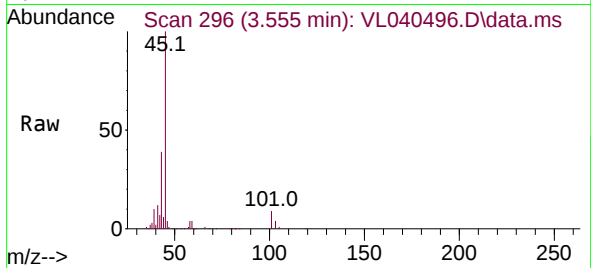
Tgt Ion: 43 Resp: 17658
 Ion Ratio Lower Upper
 43 100
 57 62.8 42.5 63.7





#11
Trichlorofluoromethane
Concen: 0.125 ppbv m
RT: 3.555 min Scan# 295
Delta R.T. 0.003 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

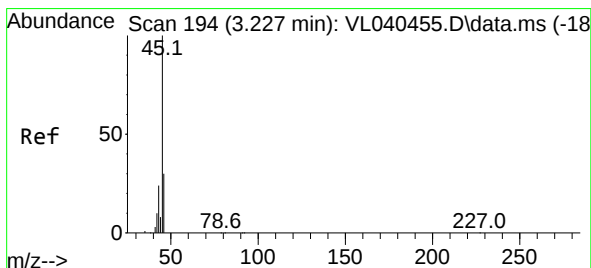
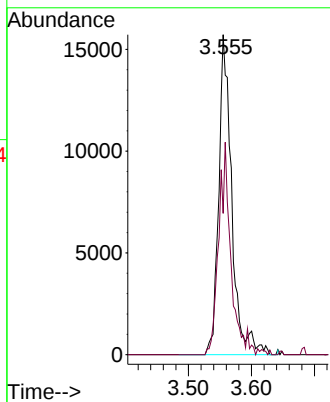
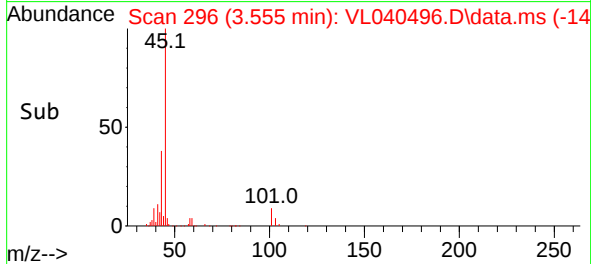
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion:101 Resp: 22642
Ion Ratio Lower Upper
101 100
103 44.1 51.7 77.5

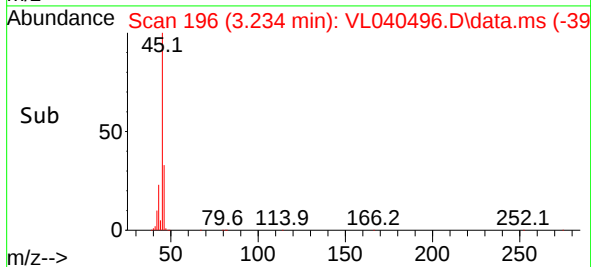
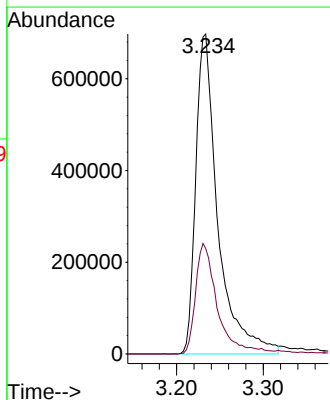
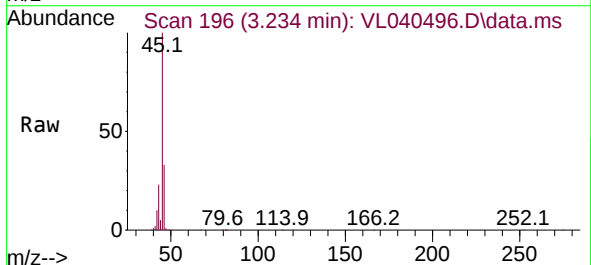
Manual Integrations
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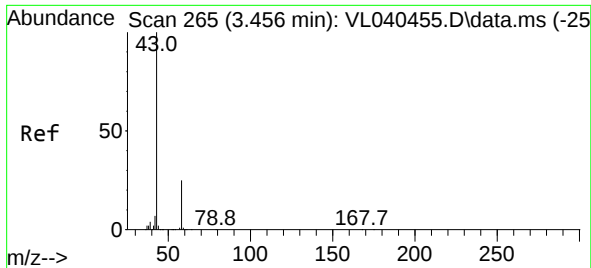
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#13
Ethanol
Concen: 115.806 ppbv
RT: 3.234 min Scan# 196
Delta R.T. 0.006 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

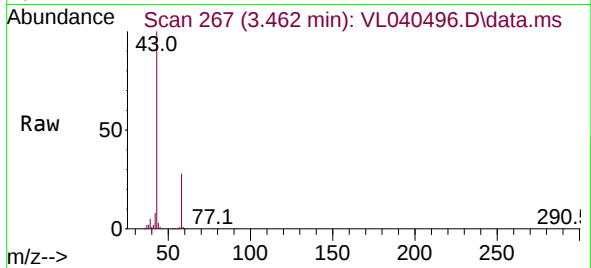
Tgt Ion: 45 Resp: 1234973
Ion Ratio Lower Upper
45 100
46 35.3 14.5 58.1





#15
Acetone
Concen: 13.227 ppbv
RT: 3.462 min Scan# 20
Delta R.T. 0.006 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

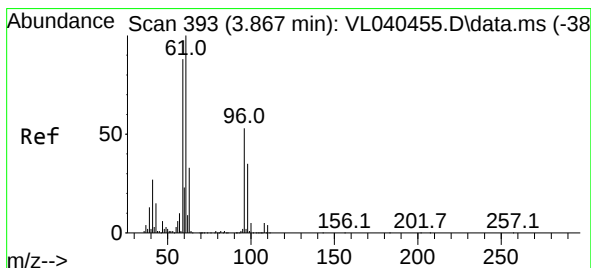
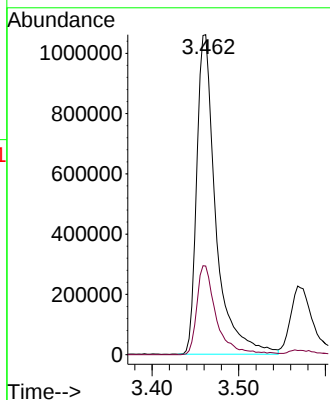
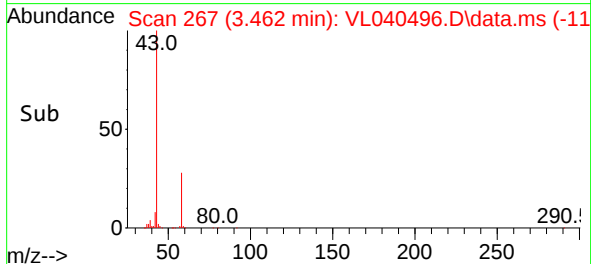
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 43 Resp: 1626600
Ion Ratio Lower Upper
43 100
58 28.4 21.6 32.4

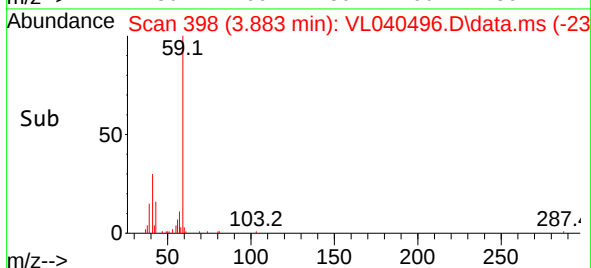
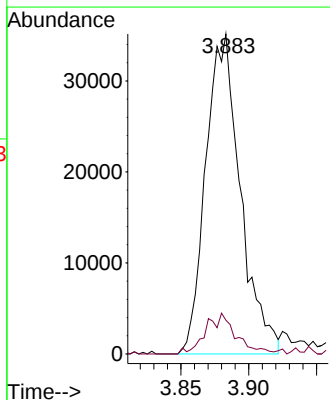
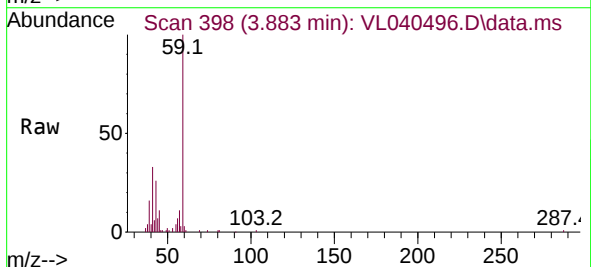
Manual Integrations
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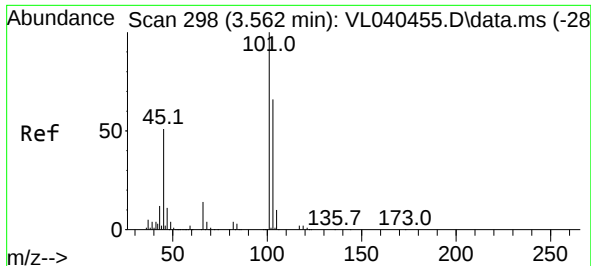
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#17
tert-Butyl alcohol
Concen: 0.618 ppbv
RT: 3.883 min Scan# 398
Delta R.T. 0.016 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion: 59 Resp: 62497
Ion Ratio Lower Upper
59 100
57 12.3 8.8 13.2





#19

Isopropyl Alcohol

Concen: 25.344 ppbv

RT: 3.571 min Scan# 301

Delta R.T. 0.010 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tgt Ion: 45 Resp: 150227

Ion Ratio Lower Upper

45 100

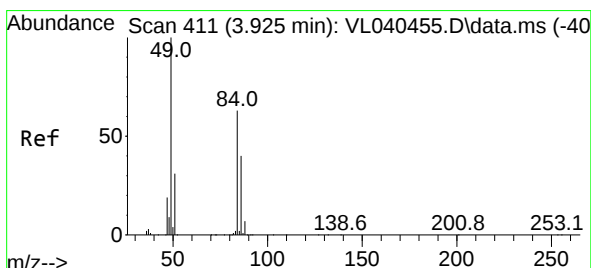
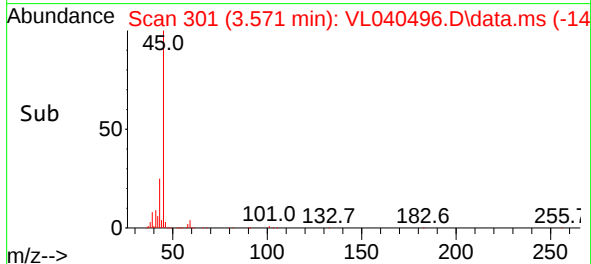
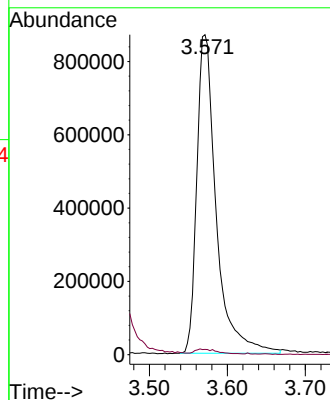
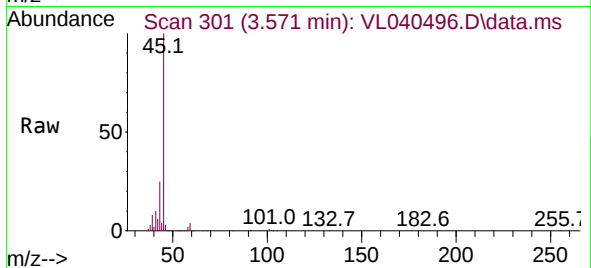
58 1.6 2.6 4.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/26/2023

Supervised By :Mahesh Dadoda 06/27/2023



#20

Methylene Chloride

Concen: 2.061 ppbv

RT: 3.925 min Scan# 411

Delta R.T. -0.000 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

Tgt Ion: 84 Resp: 108152

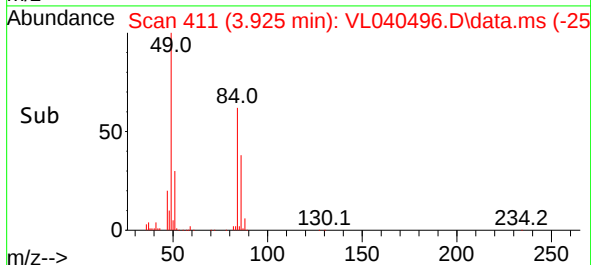
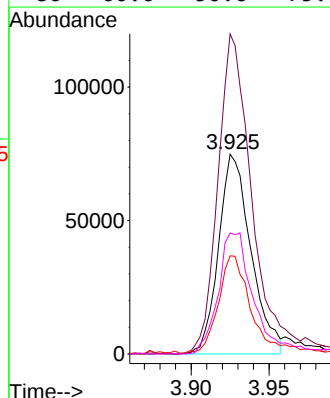
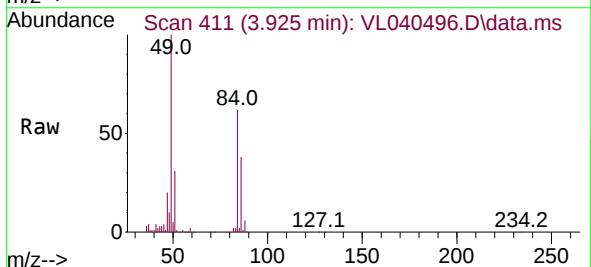
Ion Ratio Lower Upper

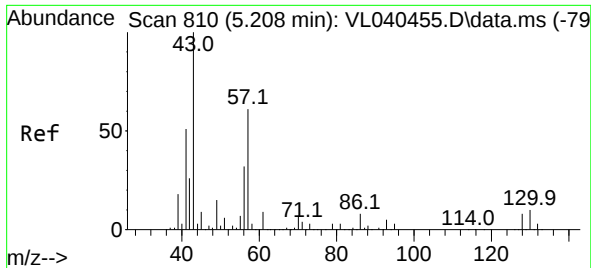
84 100

49 160.1 126.2 189.2

51 48.7 38.7 58.1

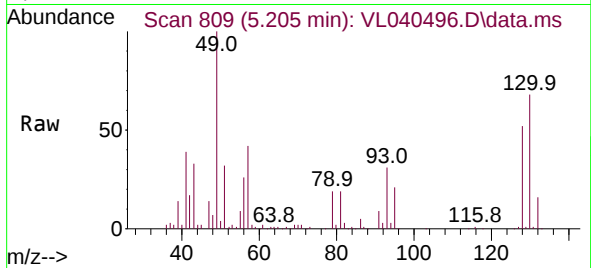
86 60.6 50.6 75.8





#26
Hexane
Concen: 0.785 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.003 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

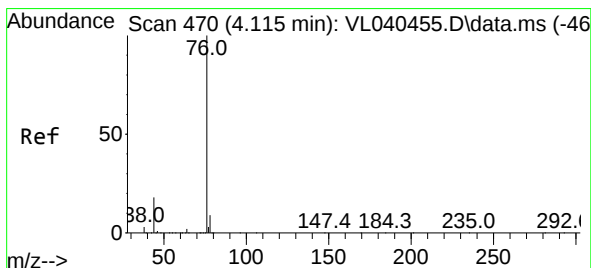
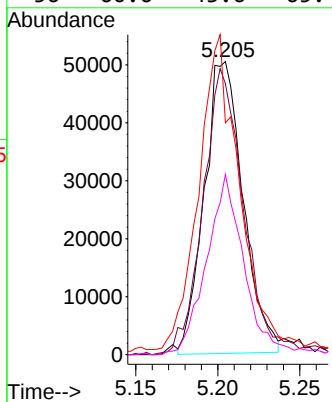
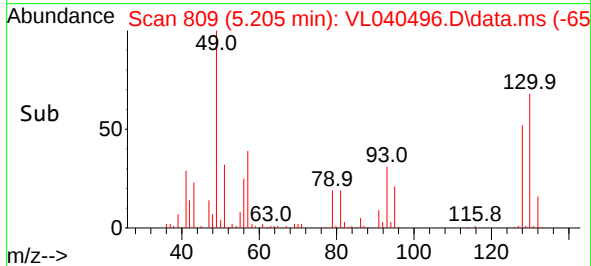
Instrument :
MSVOA_L
ClientSampleId :
SV-1



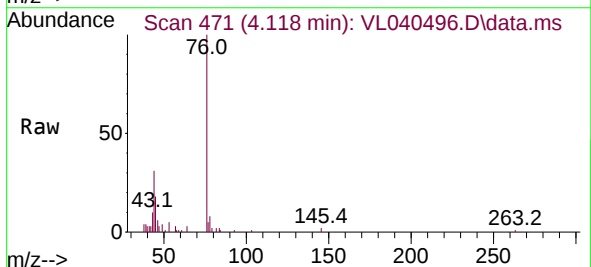
Tgt Ion: 57 Resp: 82809
Ion Ratio Lower Upper
57 100
41 105.8 73.0 109.6
43 118.4 177.5 266.3
56 60.6 43.6 65.4

Manual Integrations
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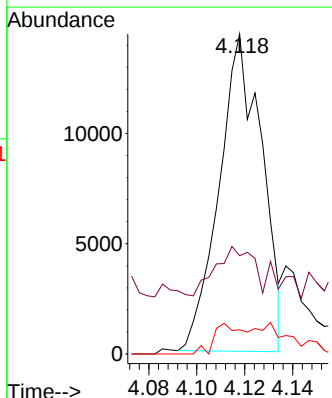
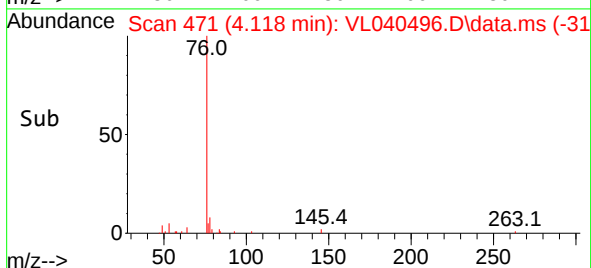
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023

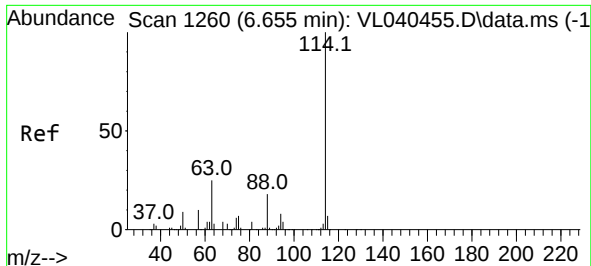


#27
Carbon Disulfide
Concen: 0.134 ppbv
RT: 4.118 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07



Tgt Ion: 76 Resp: 17736
Ion Ratio Lower Upper
76 100
44 29.9 14.6 22.0#
78 0.0 7.6 11.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 114

Delta R.T. -0.013 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tgt Ion:114 Resp: 251791

Ion Ratio Lower Upper

114 100

63 26.3 21.0 31.6

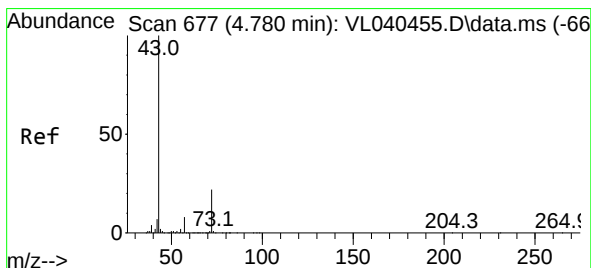
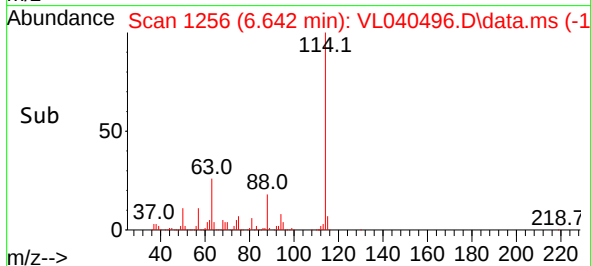
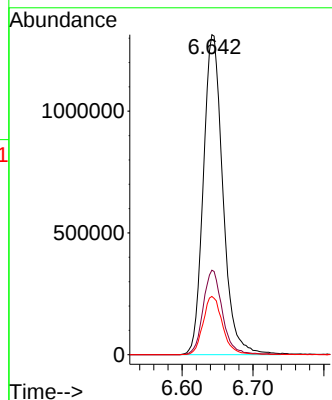
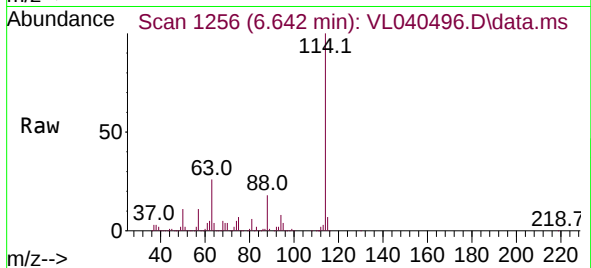
88 18.2 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/26/2023

Supervised By :Mahesh Dadoda 06/27/2023



#34

2-Butanone

Concen: 3.982 ppbv

RT: 4.777 min Scan# 676

Delta R.T. -0.003 min

Lab File: VL040496.D

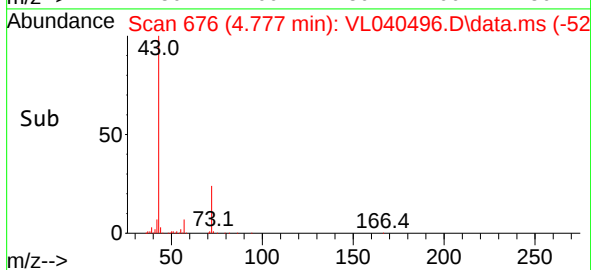
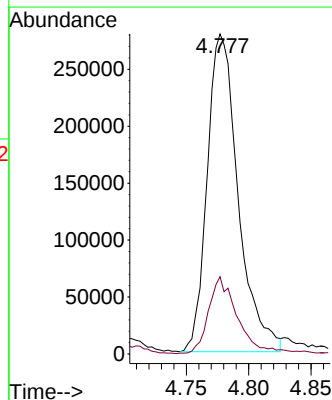
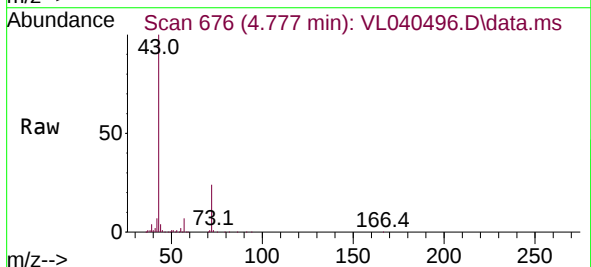
Acq: 22 Jun 2023 22:07

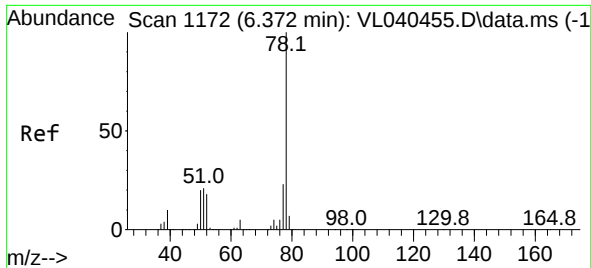
Tgt Ion: 43 Resp: 483431

Ion Ratio Lower Upper

43 100

72 22.8 18.1 27.1





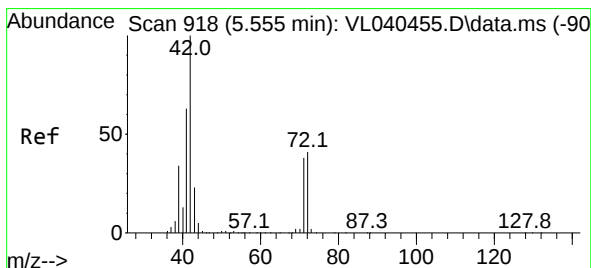
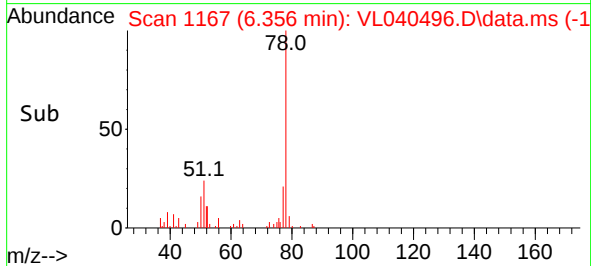
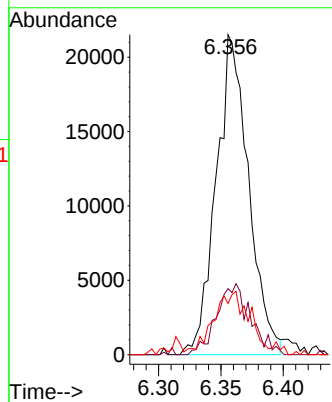
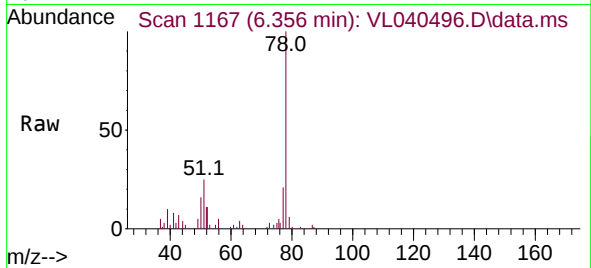
#36
Benzene
Concen: 0.194 ppbv
RT: 6.356 min Scan# 1172
Delta R.T. -0.016 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 78 Resp: 3888
Ion Ratio Lower Upper
78 100
77 20.6 18.5 27.7
50 14.5 16.1 24.1

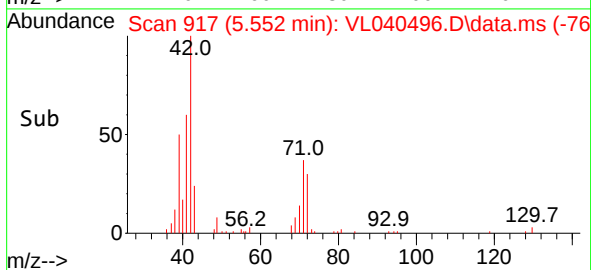
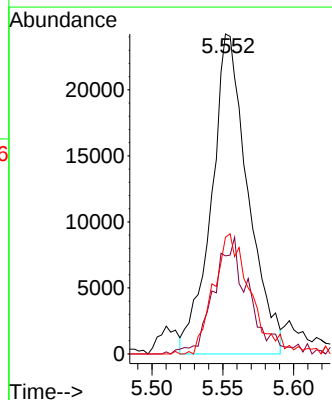
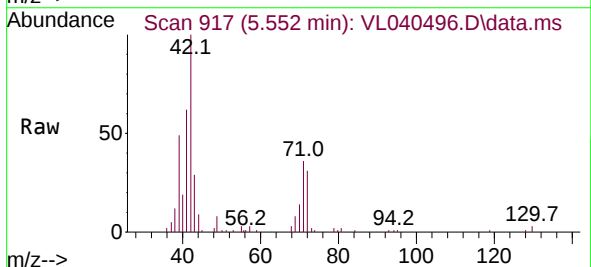
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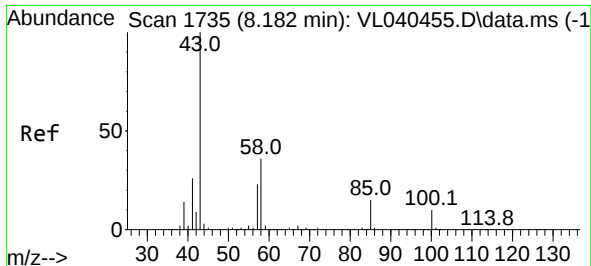
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#41
Tetrahydrofuran
Concen: 0.654 ppbv
RT: 5.552 min Scan# 917
Delta R.T. -0.003 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

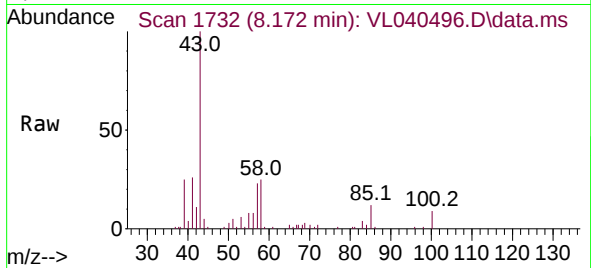
Tgt Ion: 42 Resp: 43427
Ion Ratio Lower Upper
42 100
72 36.1 33.8 50.8
71 39.3 32.3 48.5





#50
4-Methyl-2-Pentanone
Concen: 0.457 ppbv m
RT: 8.172 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

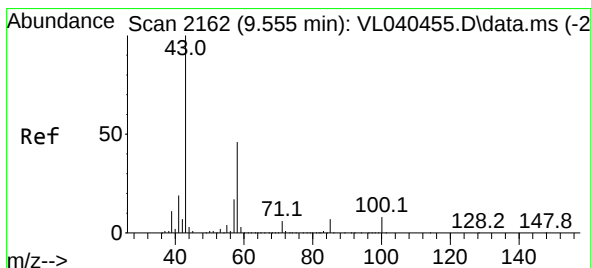
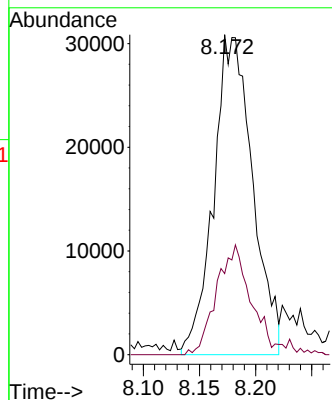
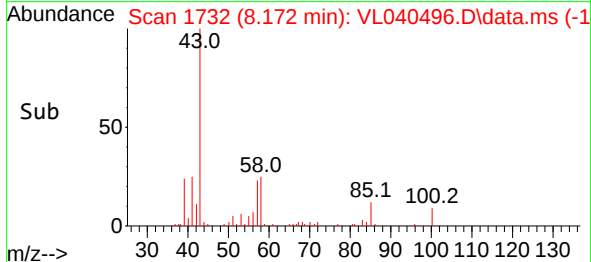
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 43 Resp: 74300
Ion Ratio Lower Upper
43 100
58 0.0 28.2 42.4

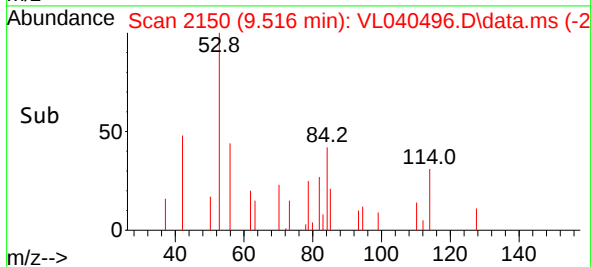
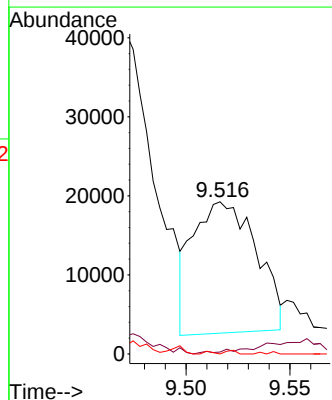
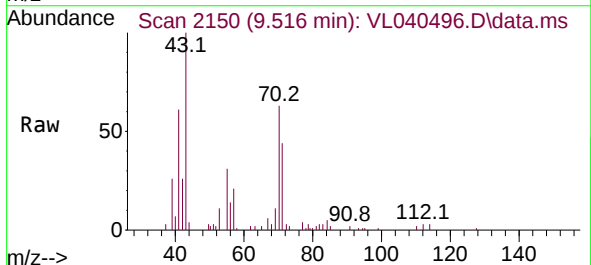
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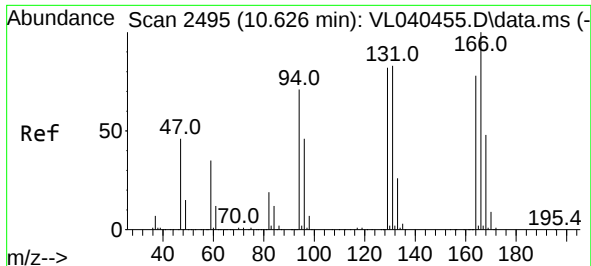
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#51
2-Hexanone
Concen: 0.312 ppbv
RT: 9.516 min Scan# 2150
Delta R.T. -0.039 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

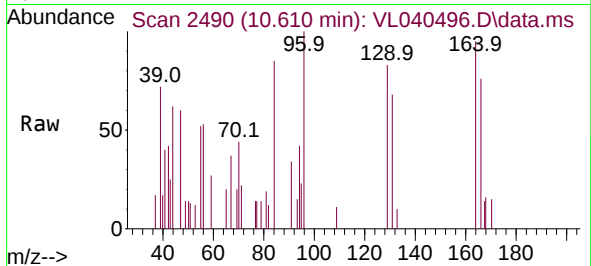
Tgt Ion: 43 Resp: 35245
Ion Ratio Lower Upper
43 100
58 11.8 37.1 55.7#
98 0.0 0.5 0.7#





#52
Tetrachloroethene
Concen: 0.040 ppbv m
RT: 10.610 min Scan# 2495
Delta R.T. -0.016 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

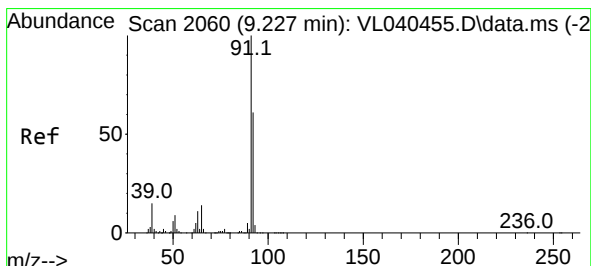
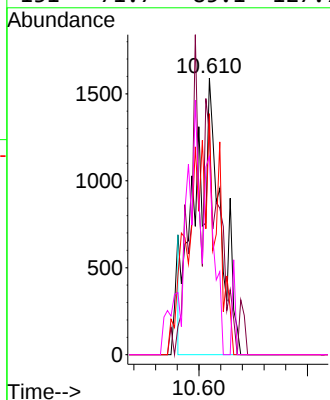
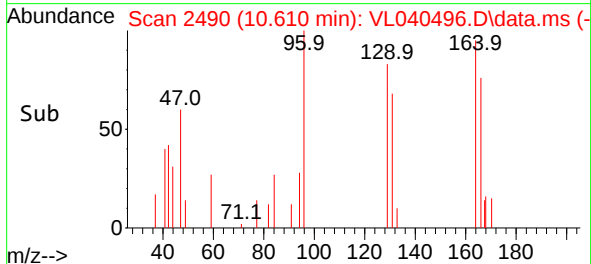
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion:164 Resp: 2518
Ion Ratio Lower Upper
164 100
166 79.8 102.7 154.1
129 87.1 84.6 126.8
131 71.7 85.1 127.7#

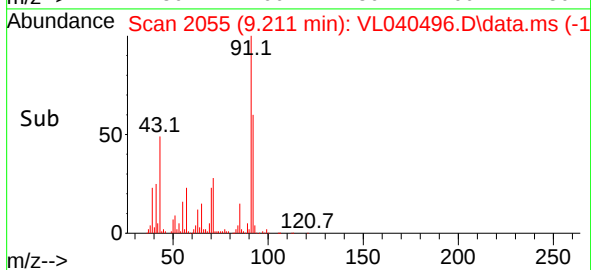
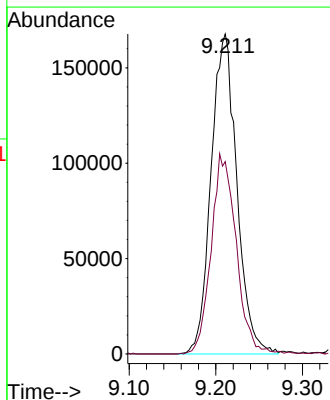
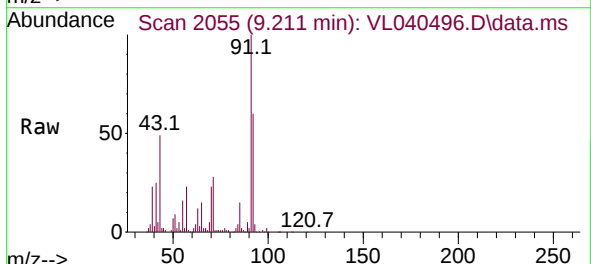
Manual Integrations
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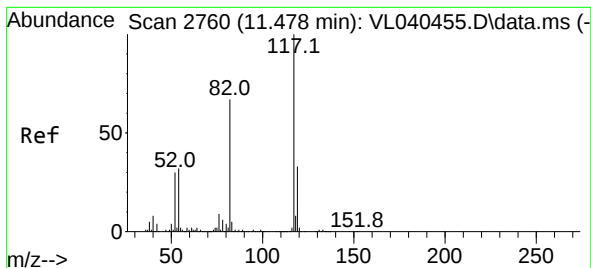
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#53
Toluene
Concen: 1.642 ppbv
RT: 9.211 min Scan# 2055
Delta R.T. -0.016 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

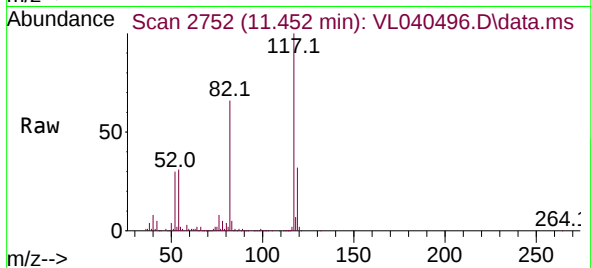
Tgt Ion: 91 Resp: 346363
Ion Ratio Lower Upper
91 100
92 61.2 49.1 73.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

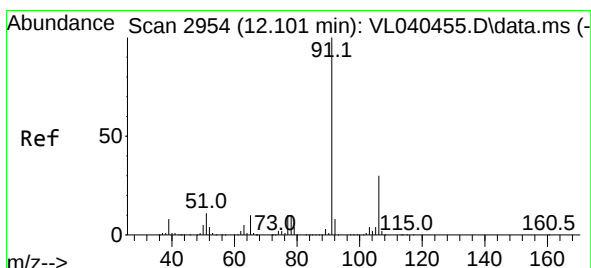
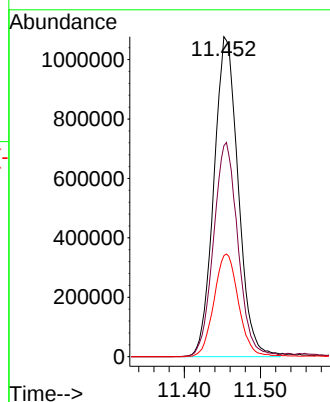
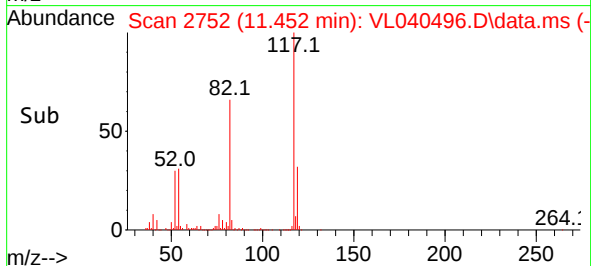
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion:117 Resp: 2397210
Ion Ratio Lower Upper
117 100
82 67.3 53.0 79.4
119 32.7 24.4 36.6

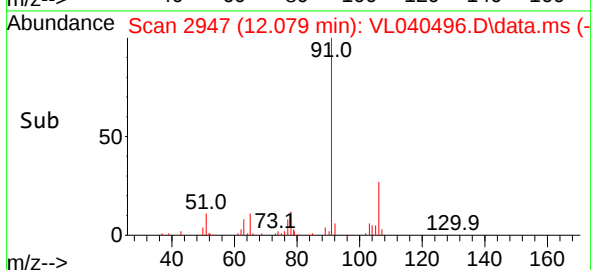
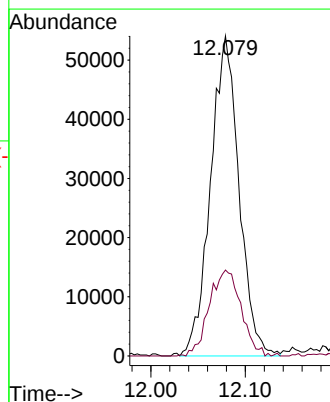
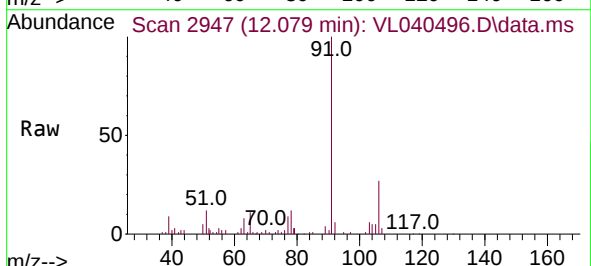
Manual Integrations
APPROVED

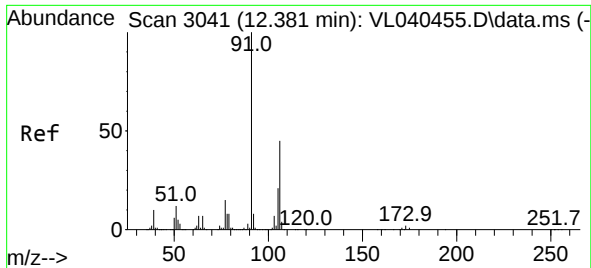
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#58
Ethyl Benzene
Concen: 0.391 ppbv
RT: 12.079 min Scan# 2947
Delta R.T. -0.023 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion: 91 Resp: 113450
Ion Ratio Lower Upper
91 100
106 26.8 23.7 35.5





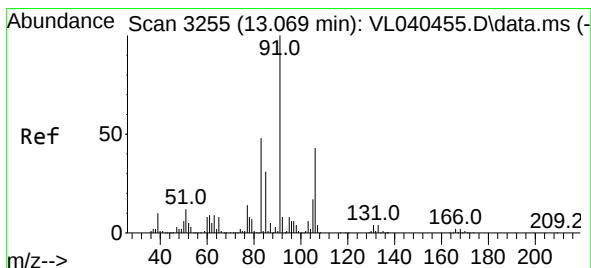
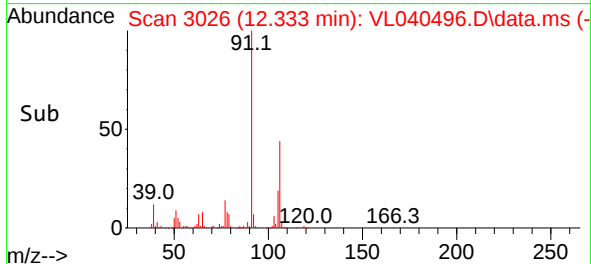
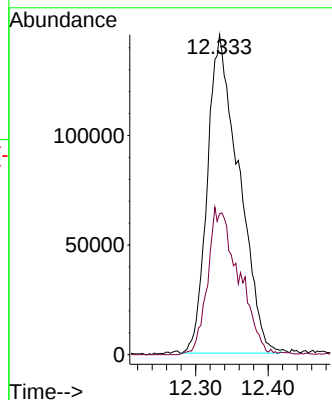
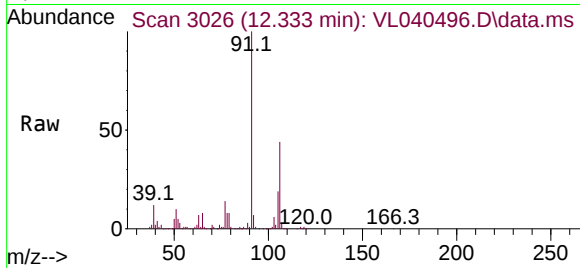
#59
m/p-Xylene
Concen: 1.639 ppbv
RT: 12.333 min Scan# 3041
Delta R.T. -0.048 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 91 Resp: 43751
Ion Ratio Lower Upper
91 100
106 45.9 34.6 52.0

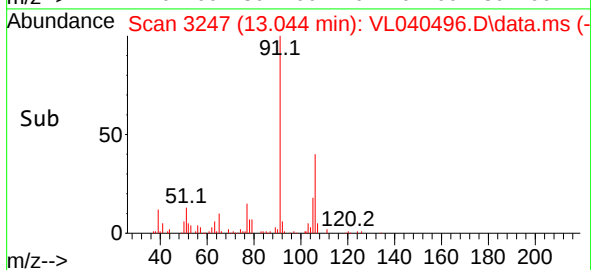
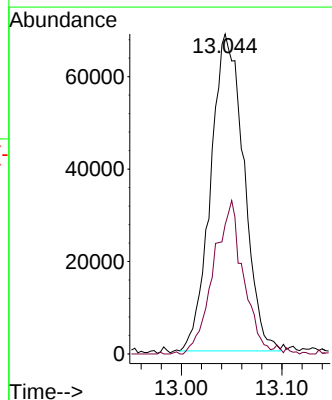
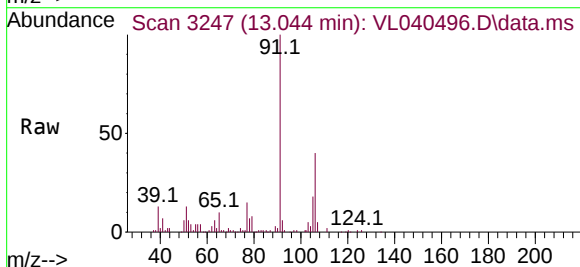
Manual Integrations
APPROVED

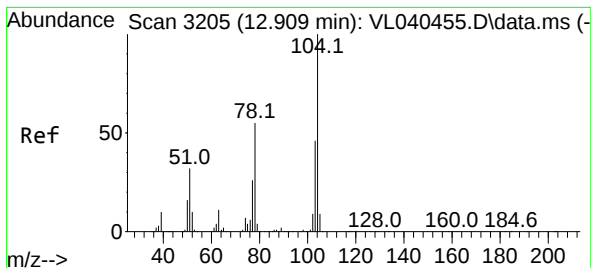
Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#60
o-Xylene
Concen: 0.620 ppbv
RT: 13.044 min Scan# 3247
Delta R.T. -0.026 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Tgt Ion: 91 Resp: 157033
Ion Ratio Lower Upper
91 100
106 44.5 22.1 66.1





#61

Styrene

Concen: 0.762 ppbv m

RT: 12.883 min Scan# 3197

Delta R.T. -0.026 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

Instrument :

MSVOA_L

ClientSampleId :

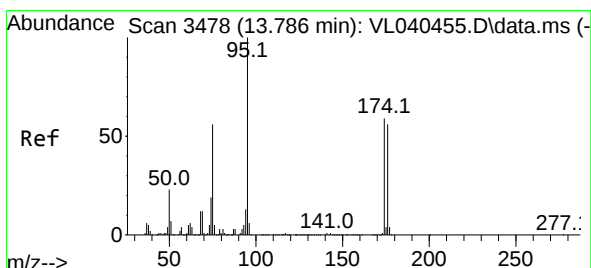
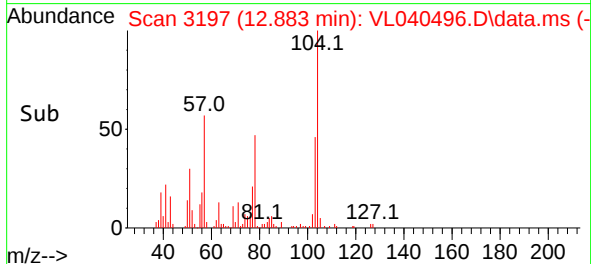
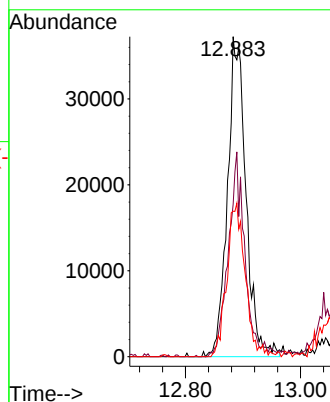
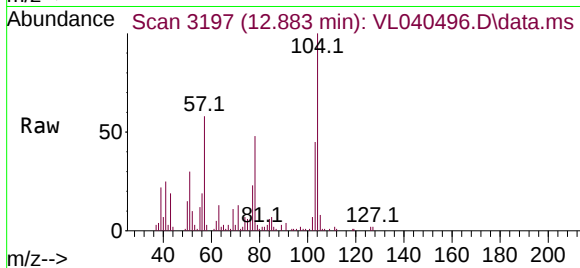
SV-1

Tgt Ion:	104	Resp:	8304
Ion Ratio	Lower	Upper	
104	100		
78	0.0	43.1	64.7
103	0.0	37.1	55.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023



#68

1-Bromo-4-Fluorobenzene

Concen: 9.993 ppbv

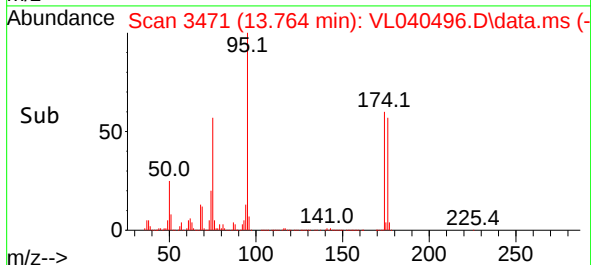
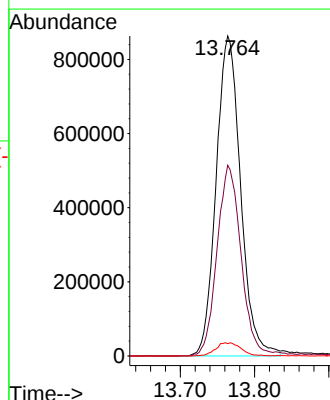
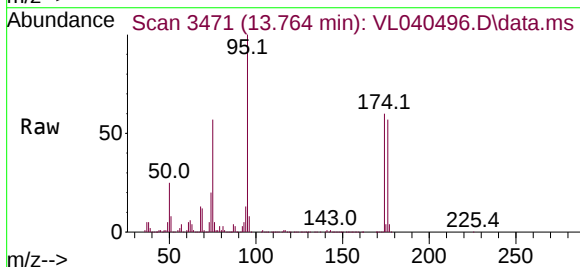
RT: 13.764 min Scan# 3471

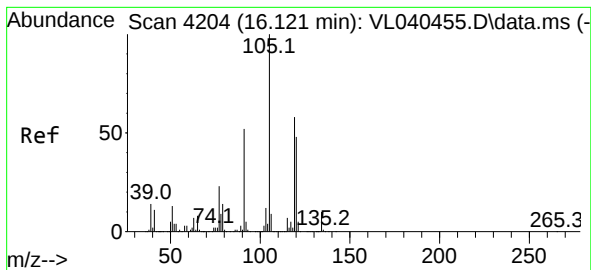
Delta R.T. -0.023 min

Lab File: VL040496.D

Acq: 22 Jun 2023 22:07

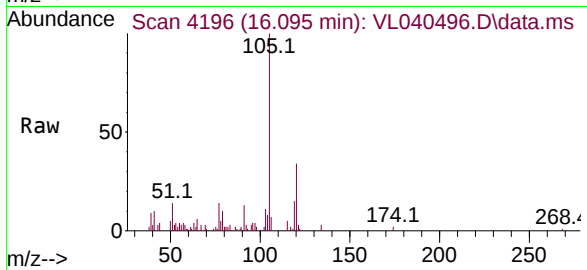
Tgt Ion:	95	Resp:	1977178
Ion Ratio	Lower	Upper	
95	100		
174	58.9	47.7	71.5
175	4.4	3.5	5.3





#74
1,2,4-Trimethylbenzene
Concen: 0.162 ppbv m
RT: 16.095 min Scan# 4196
Delta R.T. -0.026 min
Lab File: VL040496.D
Acq: 22 Jun 2023 22:07

Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion:	105	Resp:	47979
Ion	Ratio	Lower	Upper
105	100		
120	33.7	38.4	57.6
91	12.9	41.3	61.9
77	14.4	18.6	28.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/26/2023
Supervised By :Mahesh Dadoda 06/27/2023

