

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080723\
 Data File : VL040598.D
 Acq On : 7 Aug 2023 14:34
 Operator : SY/MD
 Sample : 03907-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/08/2023
 Supervised By : Mahesh Dadoda 08/09/2023

Quant Time: Aug 08 01:41:15 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Mon Jul 10 16:32:00 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	1052546	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2565084	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2201573	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.790	95	1756172	10.079	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.735	85	68994	0.328	ppbv	99
3) Chlorodifluoromethane	2.684	51	51036	0.306	ppbv	93
4) Chloromethane	2.819	50	30821	0.466	ppbv	93
9) Propene	2.703	41	51137	0.895	ppbv	100
10) Heptane	7.584	43	37644m	0.298	ppbv	
11) Trichlorofluoromethane	3.568	101	40684	0.239	ppbv	89
13) Ethanol	3.240	45	1357389	109.233	ppbv	96
15) Acetone	3.468	43	4225659	34.878	ppbv	98
19) Isopropyl Alcohol	3.581	45	1209023	17.383	ppbv #	96
20) Methylene Chloride	3.938	84	1038700	20.155	ppbv	99
26) Hexane	5.221	57	997192	9.306	ppbv #	47
32) 1,1,1-Trichloroethane	6.005	97	15206m	0.087	ppbv	
34) 2-Butanone	4.796	43	158973	1.254	ppbv	99
35) Carbon Tetrachloride	6.510	117	11937m	0.077	ppbv	
36) Benzene	6.381	78	118517	0.574	ppbv	98
44) 2,2,4-Trimethylpentane	7.333	57	101693	0.306	ppbv #	64
50) 4-Methyl-2-Pentanone	8.195	43	349468	1.898	ppbv	93
52) Tetrachloroethene	10.613	164	3943m	0.059	ppbv	
53) Toluene	9.230	91	2427929	10.830	ppbv	99
58) Ethyl Benzene	12.101	91	318859	1.154	ppbv	98
59) m/p-Xylene	12.355	91	1196506	4.852	ppbv	98
60) o-Xylene	13.069	91	382848	1.630	ppbv	97
61) Styrene	12.909	104	17904m	0.165	ppbv	
72) 4-Ethyltoluene	15.207	105	43363	0.157	ppbv #	88
73) 1,3,5-Trimethylbenzene	15.368	105	35812m	0.148	ppbv	
74) 1,2,4-Trimethylbenzene	16.121	105	125923	0.445	ppbv #	66

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

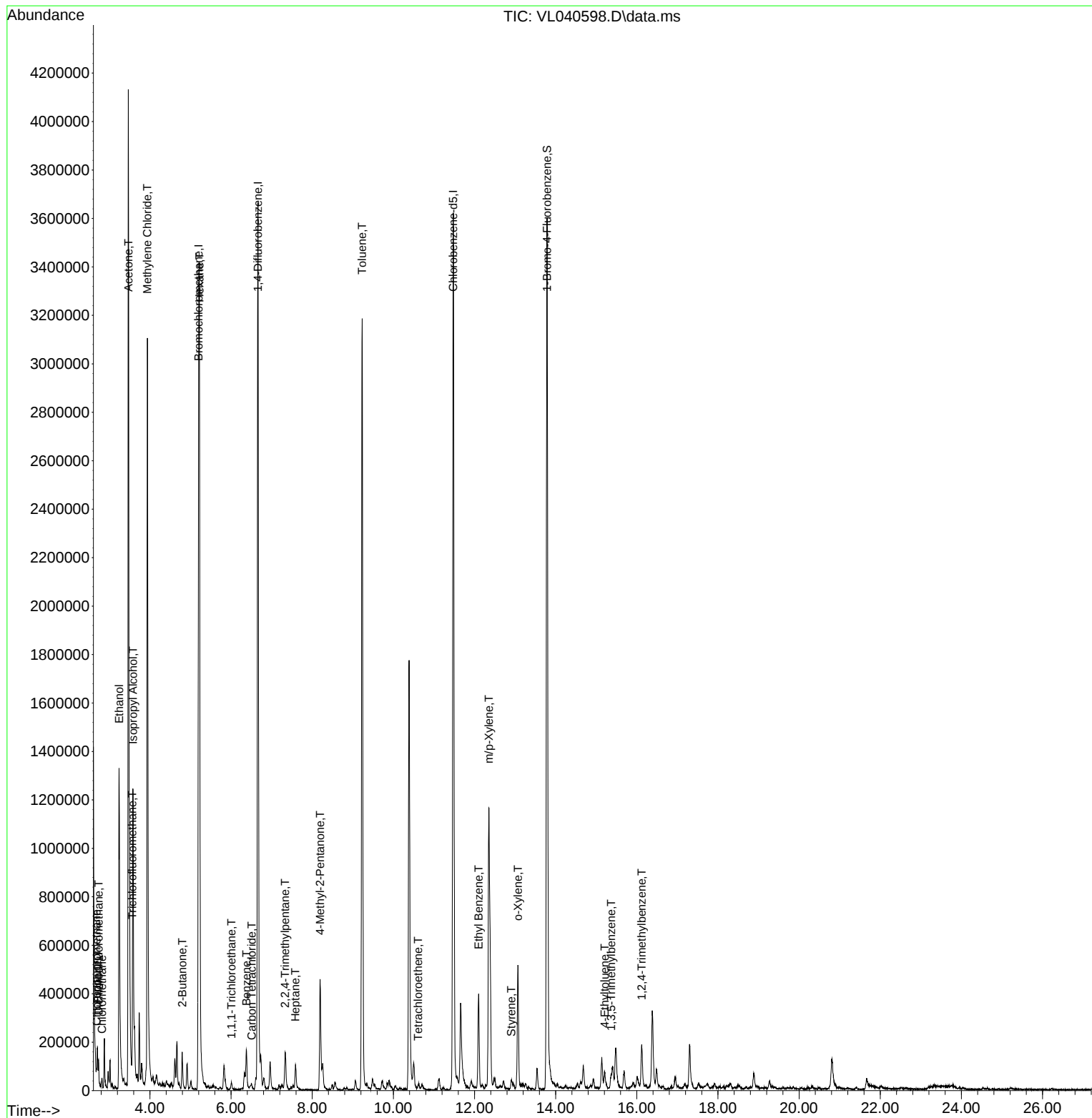
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080723\
Data File : VL040598.D
Acq On : 7 Aug 2023 14:34
Operator : SY/MD
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ALS Vial : 1 Sample Multiplier: 1

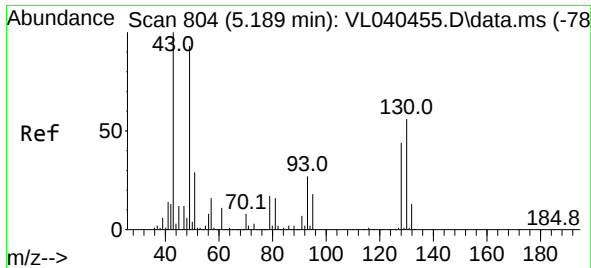
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP

Quant Time: Aug 08 01:41:15 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Jul 10 16:32:00 2023
Response via : Initial Calibration

Manual Integrations
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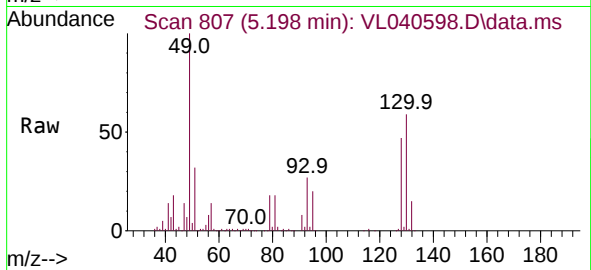
Reviewed By : Semsettin Yesilyurt 08/08/2023
Supervised By : Mahesh Dadoda 08/09/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 804
Delta R.T. -0.004 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

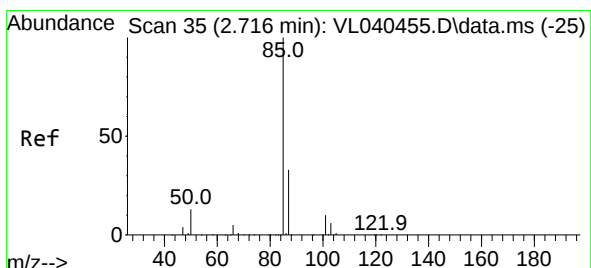
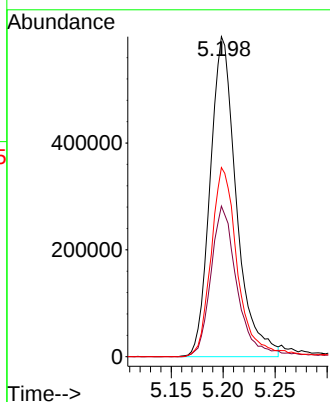
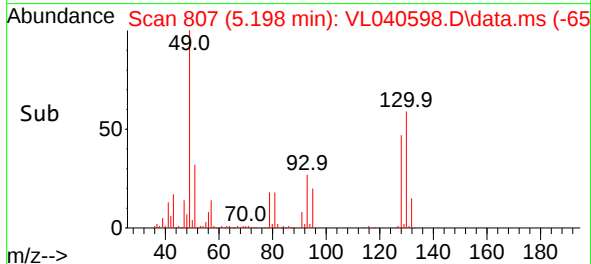
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP



Tgt Ion: 49 Resp: 1052540
Ion Ratio Lower Upper
49 100
128 48.0 25.1 75.4
130 61.1 31.6 94.7

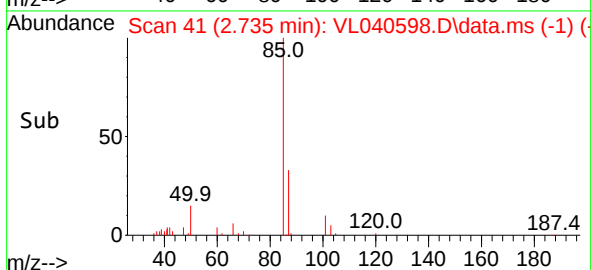
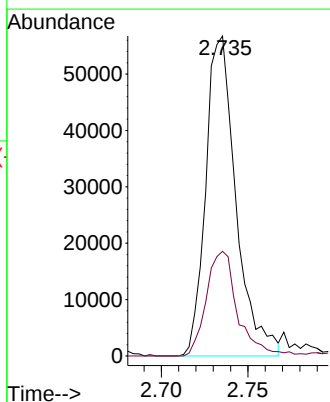
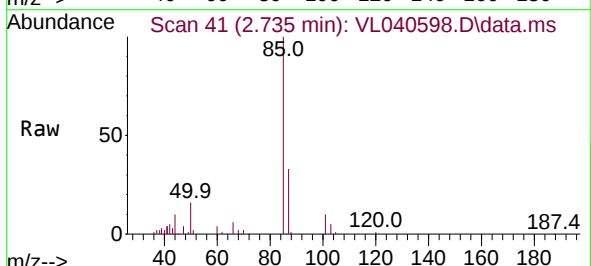
Manual Integrations
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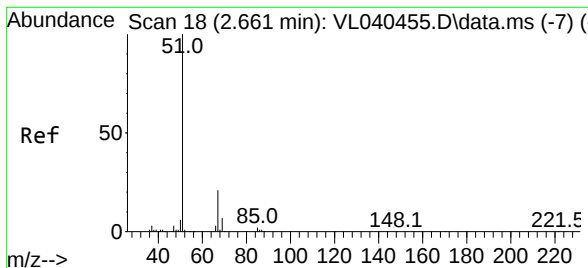
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#2
Dichlorodifluoromethane
Concen: 0.328 ppbv
RT: 2.735 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

Tgt Ion: 85 Resp: 68994
Ion Ratio Lower Upper
85 100
87 32.7 26.8 40.2





#3

Chlorodifluoromethane

Concen: 0.306 ppbv

RT: 2.684 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL040598.D

Acq: 7 Aug 2023 14:34

Instrument :

MSVOA_L

ClientSampleId :

OA-1DUP

Tgt Ion: 51 Resp: 5103

Ion Ratio Lower Upper

51 100

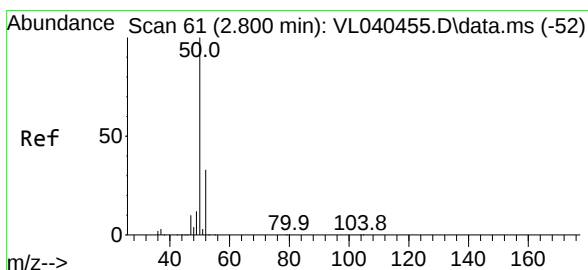
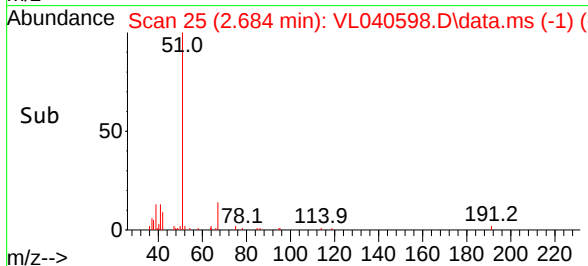
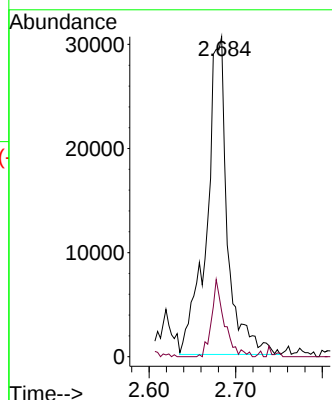
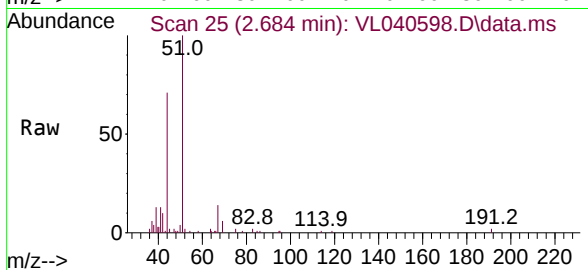
67 15.0 14.6 21.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/08/2023

Supervised By :Mahesh Dadoda 08/09/2023



#4

Chloromethane

Concen: 0.466 ppbv

RT: 2.819 min Scan# 67

Delta R.T. -0.003 min

Lab File: VL040598.D

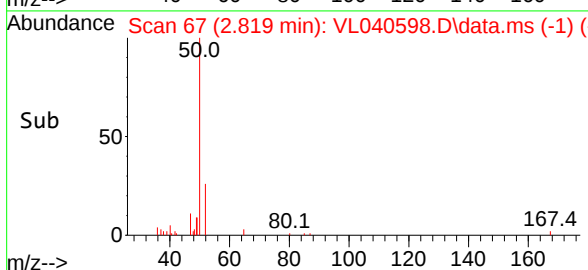
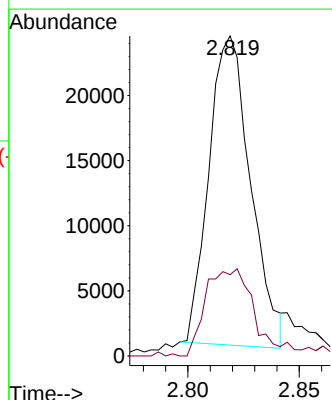
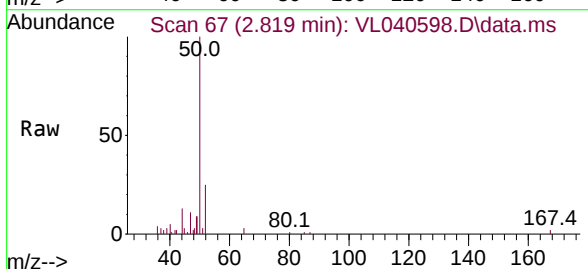
Acq: 7 Aug 2023 14:34

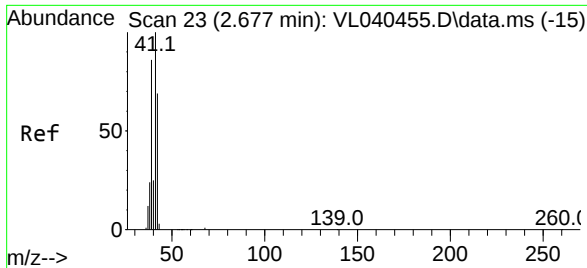
Tgt Ion: 50 Resp: 30821

Ion Ratio Lower Upper

50 100

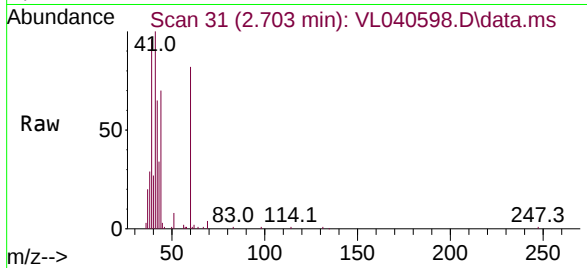
52 26.6 24.4 36.6





#9
 Propene
 Concen: 0.895 ppbv
 RT: 2.703 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VL040598.D
 Acq: 7 Aug 2023 14:34

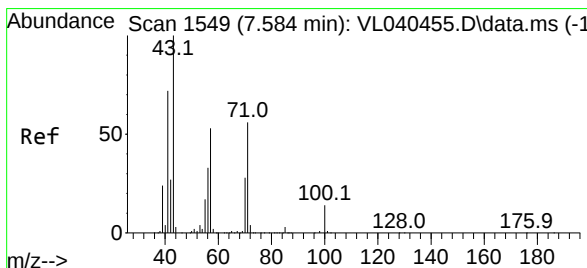
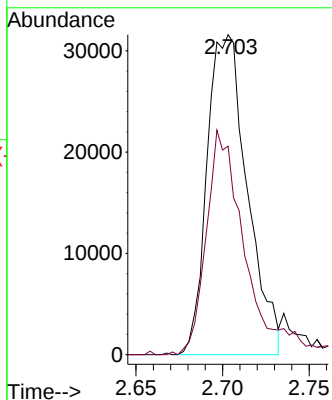
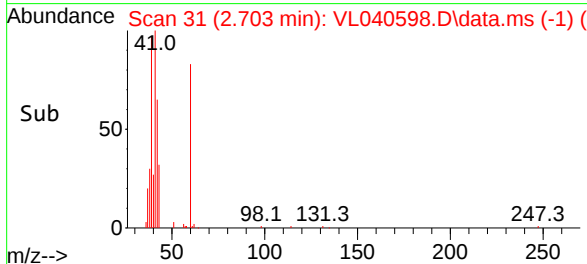
Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1DUP



Tgt Ion: 41 Resp: 5113
 Ion Ratio Lower Upper
 41 100
 42 68.9 55.0 82.6

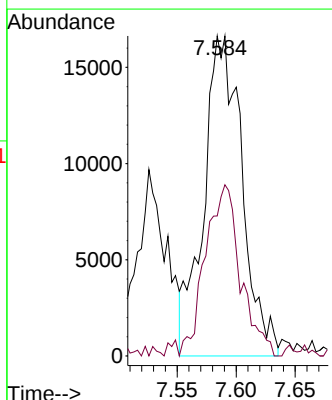
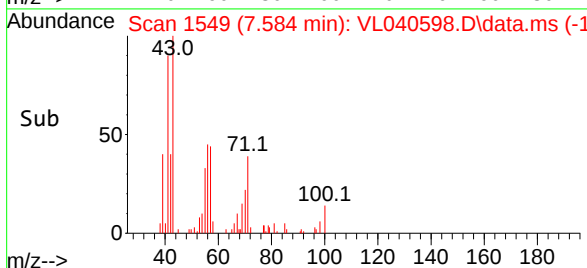
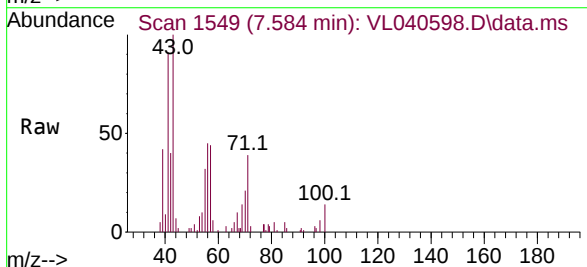
Manual Integrations
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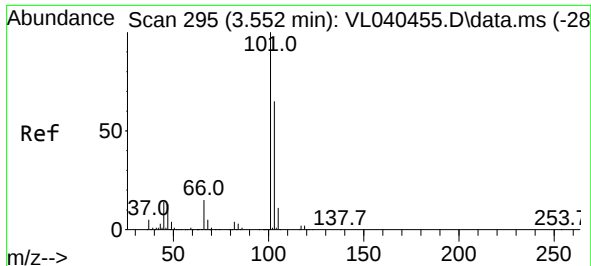
Reviewed By :Semsettin Yesilyurt 08/08/2023
 Supervised By :Mahesh Dadoda 08/09/2023



#10
 Heptane
 Concen: 0.298 ppbv m
 RT: 7.584 min Scan# 1549
 Delta R.T. -0.006 min
 Lab File: VL040598.D
 Acq: 7 Aug 2023 14:34

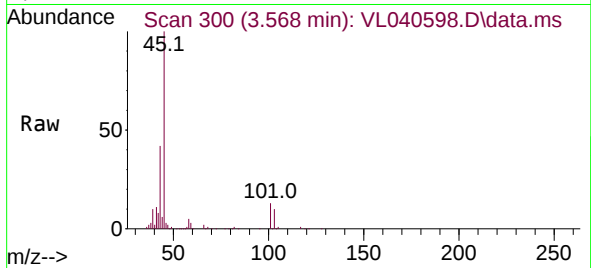
Tgt Ion: 43 Resp: 37644
 Ion Ratio Lower Upper
 43 100
 57 50.7 42.5 63.7





#11
Trichlorofluoromethane
Concen: 0.239 ppbv
RT: 3.568 min Scan# 300
Delta R.T. -0.003 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

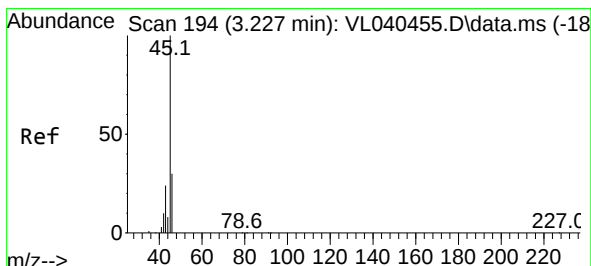
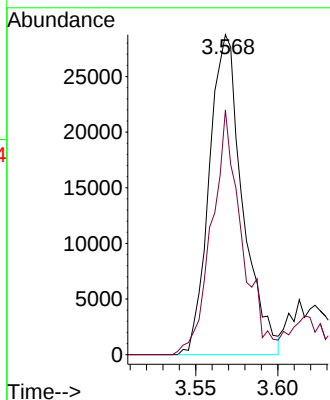
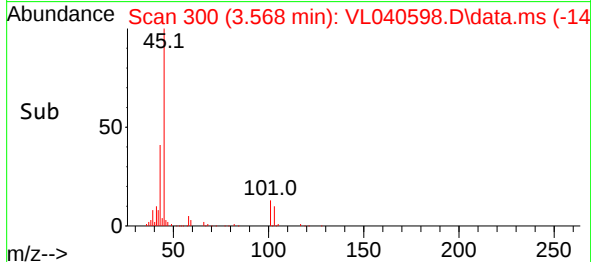
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP



Tgt Ion:101 Resp: 40684
Ion Ratio Lower Upper
101 100
103 75.4 53.4 80.0

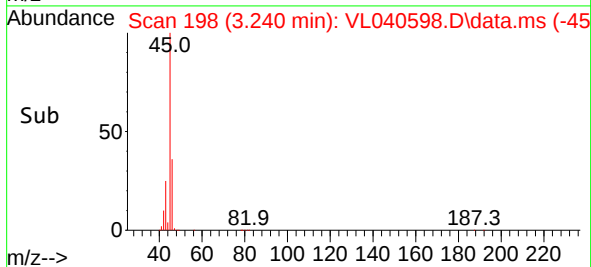
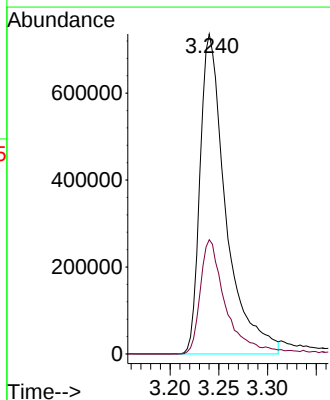
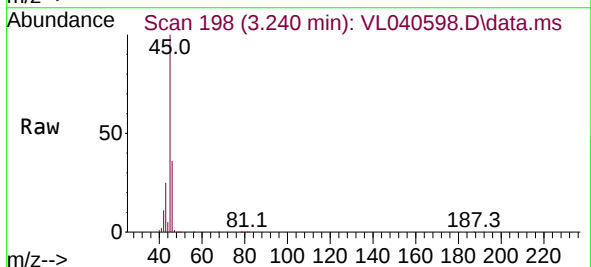
Manual Integrations
APPROVED

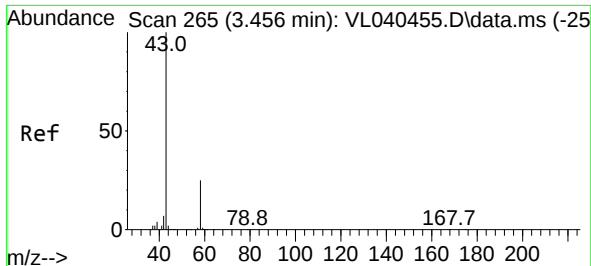
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#13
Ethanol
Concen: 109.233 ppbv
RT: 3.240 min Scan# 198
Delta R.T. -0.006 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

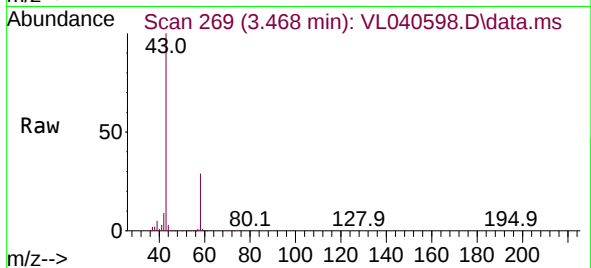
Tgt Ion: 45 Resp: 1357389
Ion Ratio Lower Upper
45 100
46 35.9 15.3 61.1





#15
Acetone
Concen: 34.878 ppbv
RT: 3.468 min Scan# 20
Delta R.T. -0.007 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

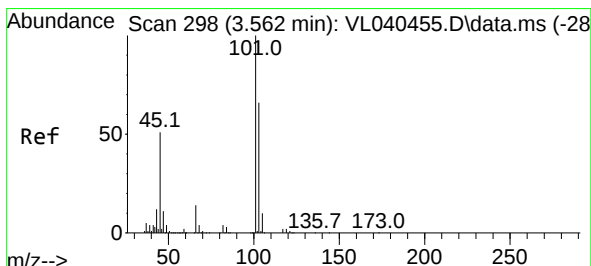
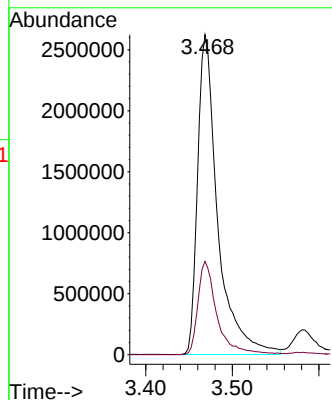
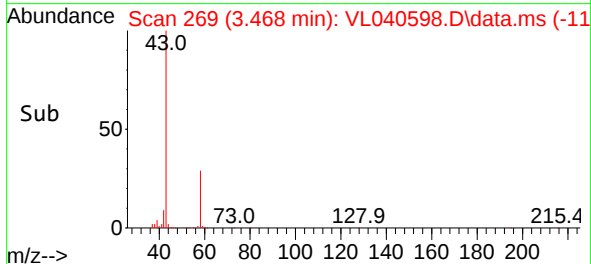
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP



Tgt Ion: 43 Resp: 4225659
Ion Ratio Lower Upper
43 100
58 27.8 22.9 34.3

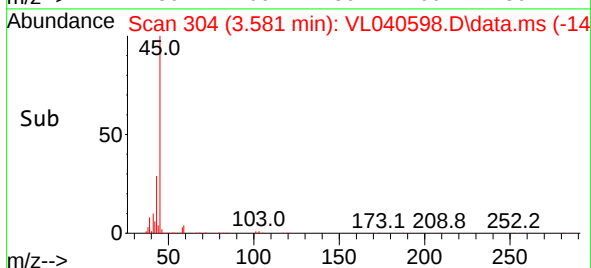
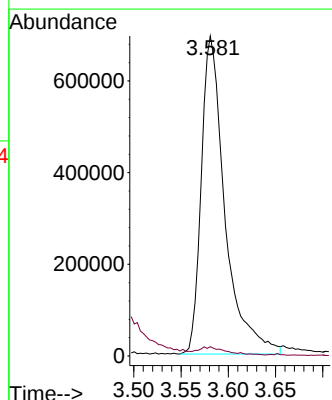
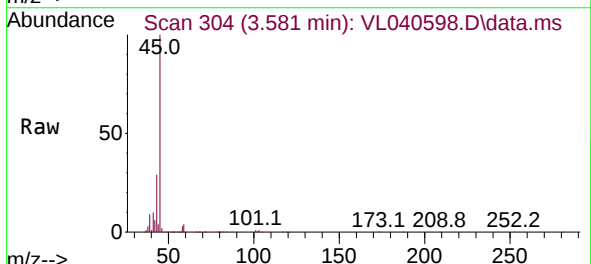
Manual Integrations
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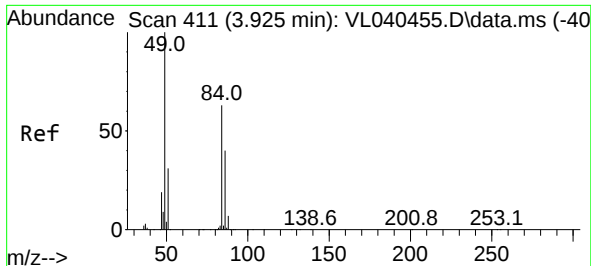
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#19
Isopropyl Alcohol
Concen: 17.383 ppbv
RT: 3.581 min Scan# 304
Delta R.T. -0.000 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

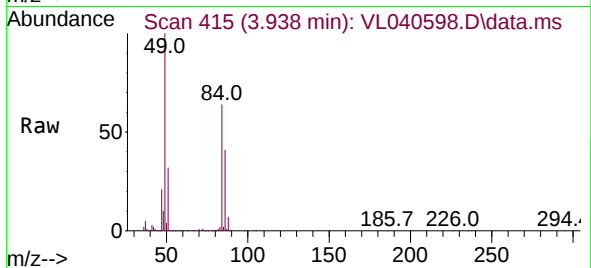
Tgt Ion: 45 Resp: 1209023
Ion Ratio Lower Upper
45 100
58 3.0 1.1 1.7#





#20
Methylene Chloride
Concen: 20.155 ppbv
RT: 3.938 min Scan# 411
Delta R.T. -0.003 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

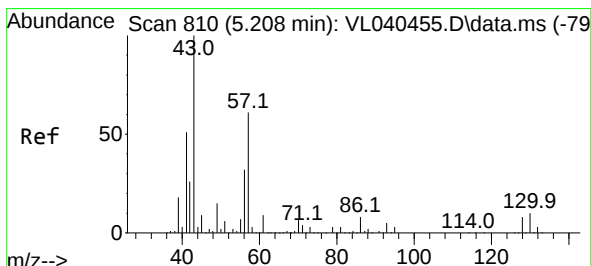
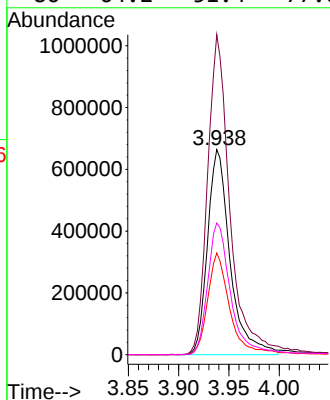
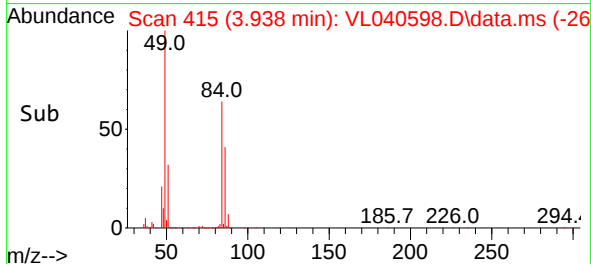
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP



Tgt Ion: 84 Resp: 1038700
Ion Ratio Lower Upper
84 100
49 156.0 123.4 185.2
51 49.4 38.3 57.5
86 64.2 51.4 77.0

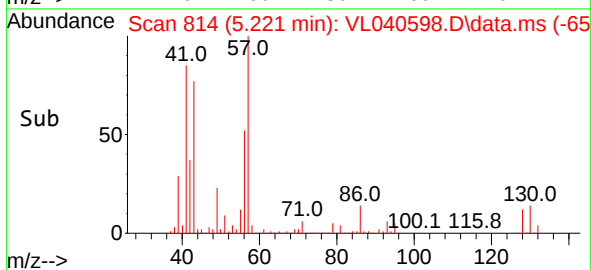
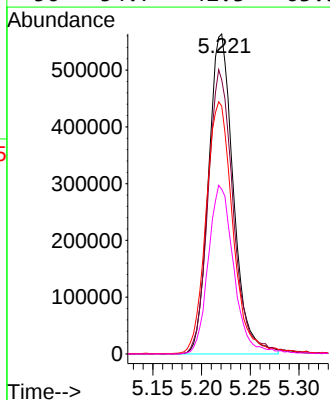
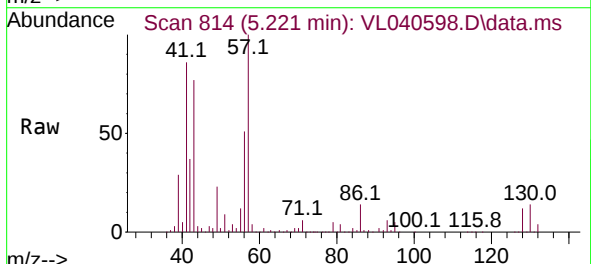
Manual Integrations
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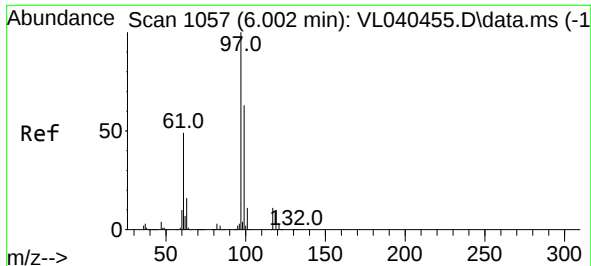
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#26
Hexane
Concen: 9.306 ppbv
RT: 5.221 min Scan# 814
Delta R.T. -0.000 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

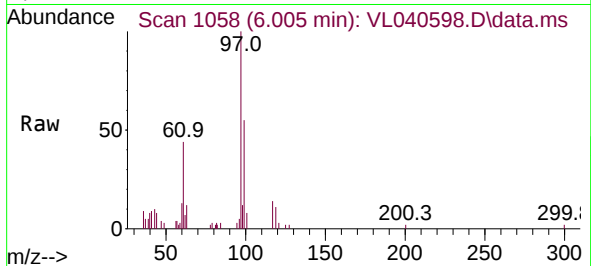
Tgt Ion: 57 Resp: 997192
Ion Ratio Lower Upper
57 100
41 91.4 69.5 104.3
43 86.2 177.1 265.7#
56 54.7 42.3 63.5





#32
1,1,1-Trichloroethane
Concen: 0.087 ppbv m
RT: 6.005 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

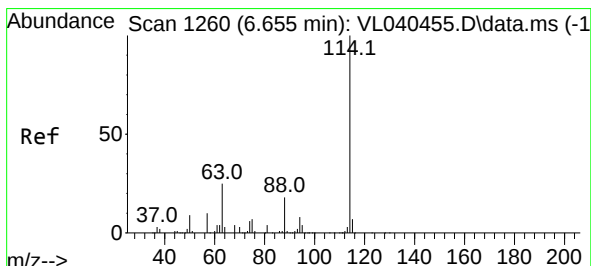
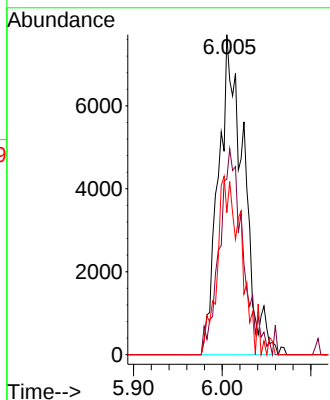
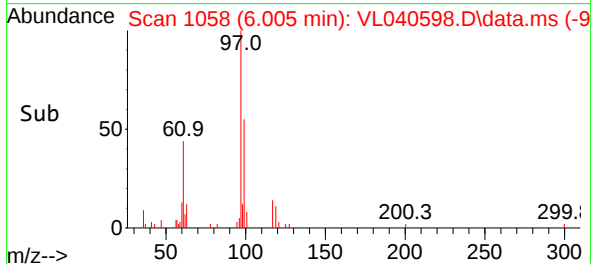
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP



Tgt Ion: 97 Resp: 15200
Ion Ratio Lower Upper
97 100
99 61.7 52.0 78.0
61 54.7 38.9 58.3

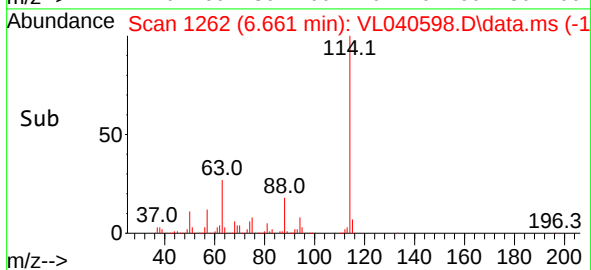
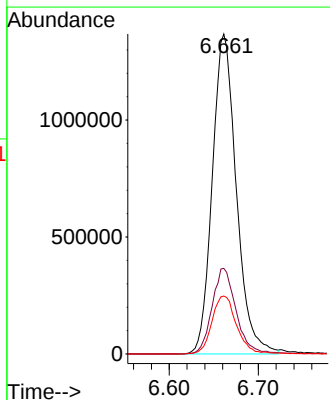
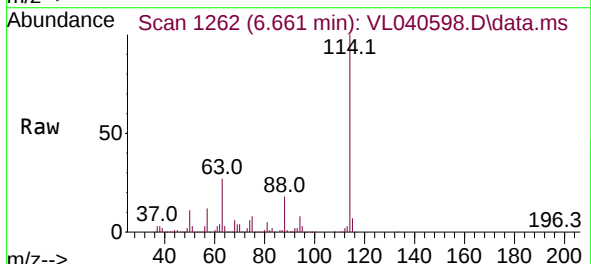
Manual Integrations
APPROVED

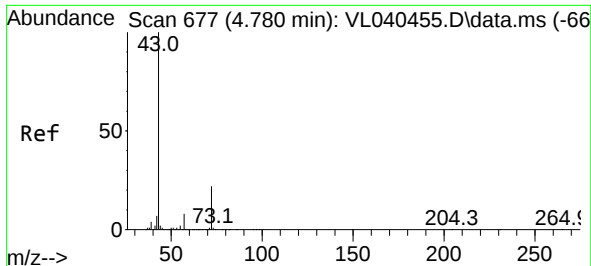
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.003 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

Tgt Ion:114 Resp: 2565084
Ion Ratio Lower Upper
114 100
63 27.0 19.6 29.4
88 18.7 14.2 21.2





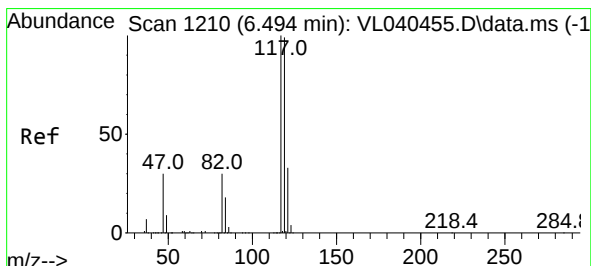
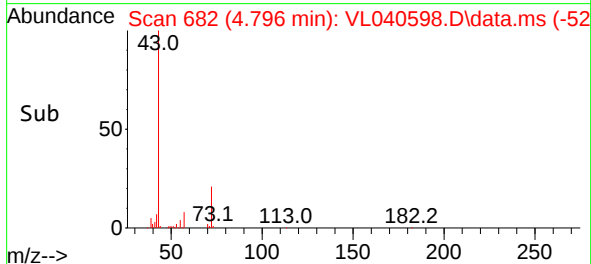
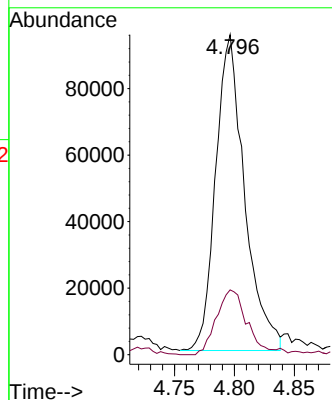
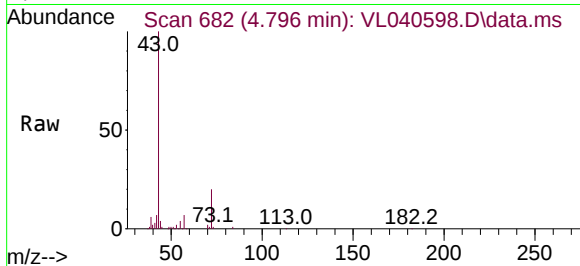
#34
2-Butanone
Concen: 1.254 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP

Tgt Ion: 43 Resp: 15897
Ion Ratio Lower Upper
43 100
72 23.2 19.1 28.7

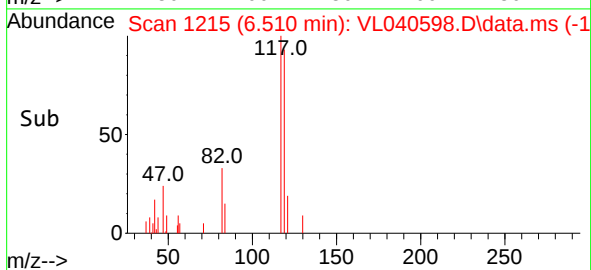
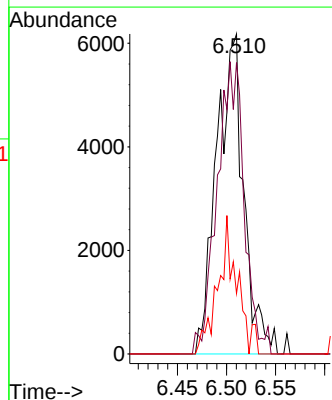
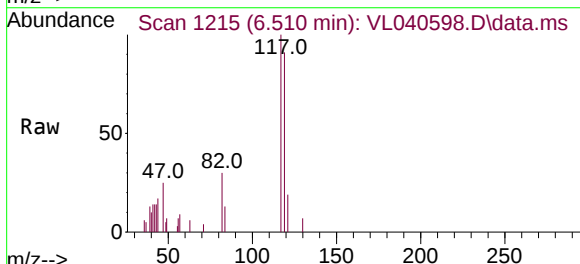
Manual Integrations
APPROVED

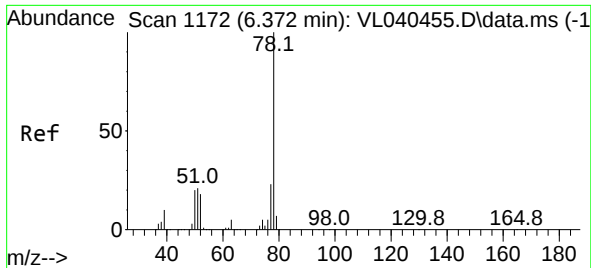
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 6.510 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

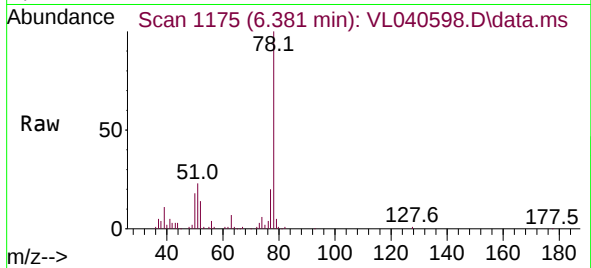
Tgt Ion:117 Resp: 11937
Ion Ratio Lower Upper
117 100
119 91.1 77.8 116.6
121 18.9 24.8 37.2#





#36
Benzene
Concen: 0.574 ppbv
RT: 6.381 min Scan# 1175
Delta R.T. -0.000 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

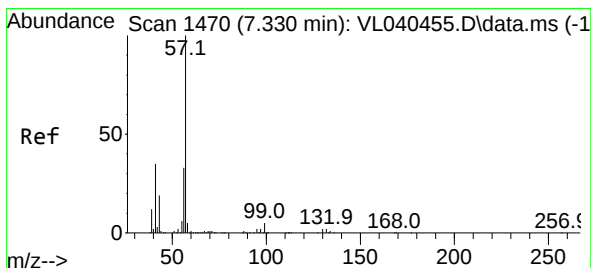
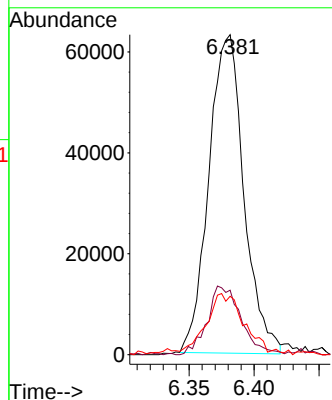
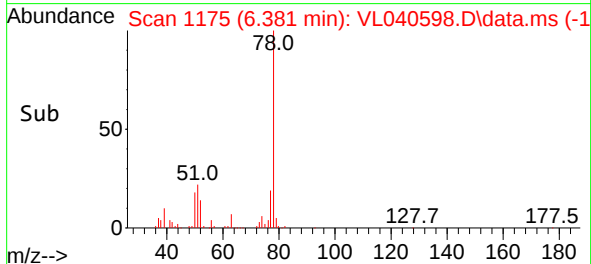
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP



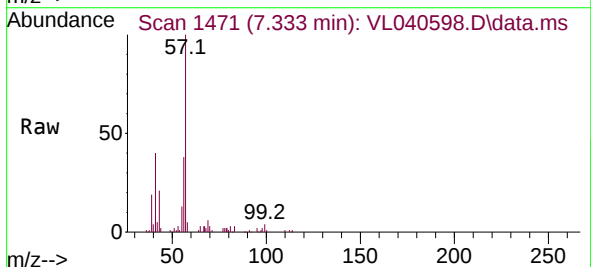
Tgt Ion: 78 Resp: 11851
Ion Ratio Lower Upper
78 100
77 20.3 17.4 26.0
50 17.6 14.4 21.6

Manual Integrations
APPROVED

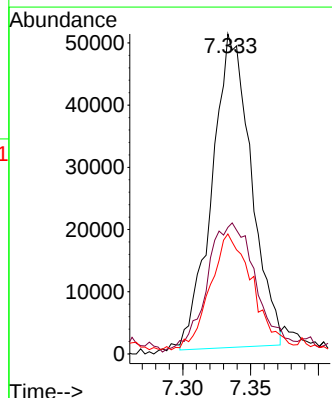
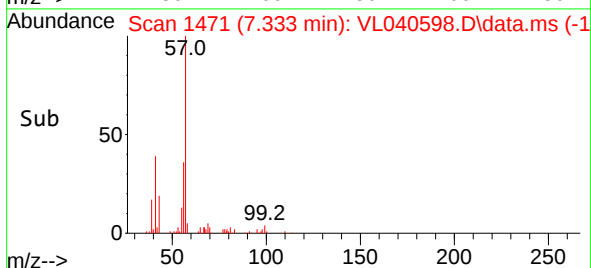
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023

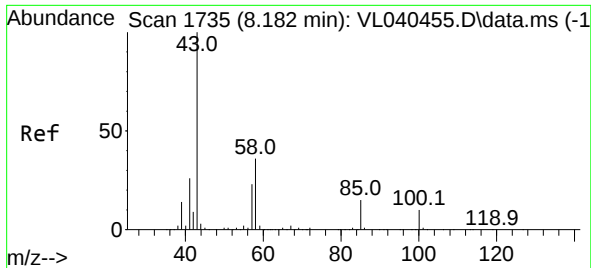


#44
2,2,4-Trimethylpentane
Concen: 0.306 ppbv
RT: 7.333 min Scan# 1471
Delta R.T. -0.003 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34



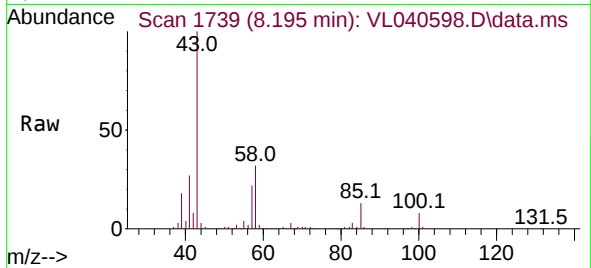
Tgt Ion: 57 Resp: 101693
Ion Ratio Lower Upper
57 100
41 55.9 25.5 38.3#
56 46.9 25.1 37.7#





#50
4-Methyl-2-Pentanone
Concen: 1.898 ppbv
RT: 8.195 min Scan# 1739
Delta R.T. 0.003 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

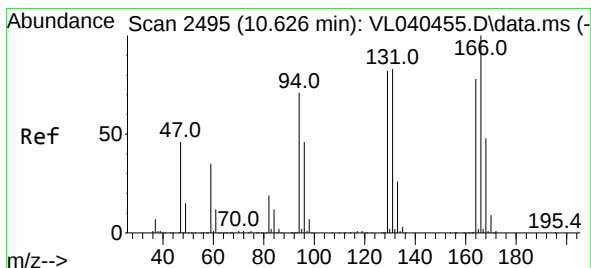
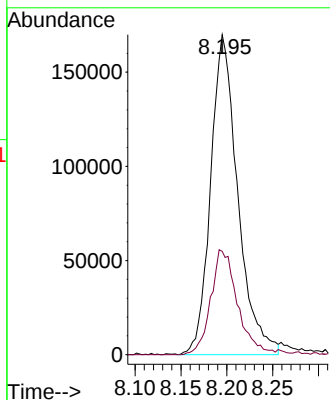
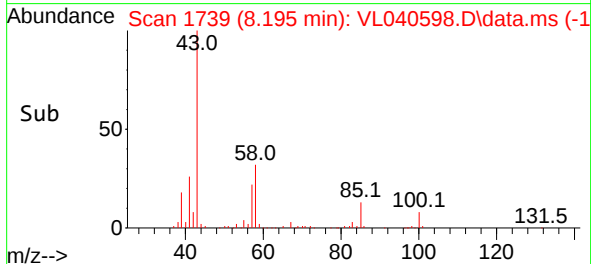
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP



Tgt Ion: 43 Resp: 34946
Ion Ratio Lower Upper
43 100
58 33.3 30.2 45.2

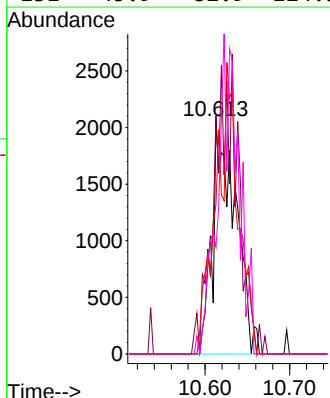
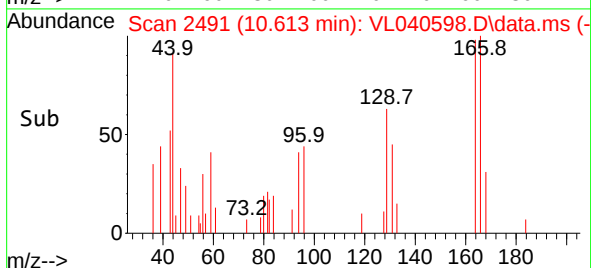
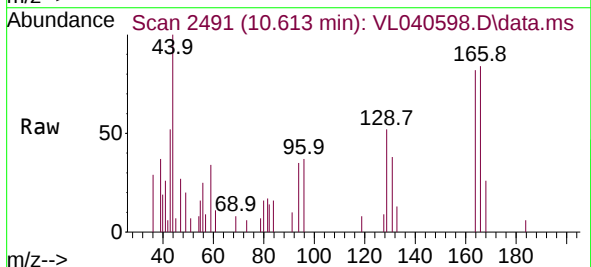
Manual Integrations
APPROVED

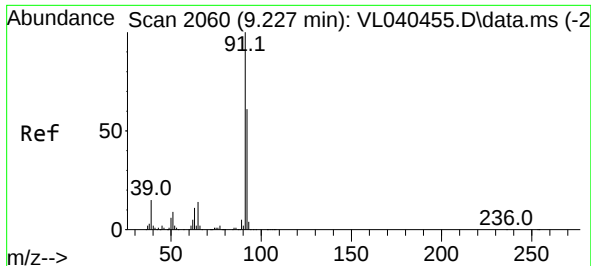
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#52
Tetrachloroethene
Concen: 0.059 ppbv m
RT: 10.613 min Scan# 2491
Delta R.T. -0.013 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

Tgt Ion:164 Resp: 3943
Ion Ratio Lower Upper
164 100
166 102.2 103.9 155.9#
129 64.0 84.6 126.8#
131 45.9 82.9 124.3#





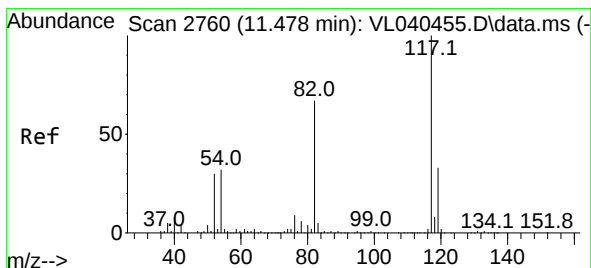
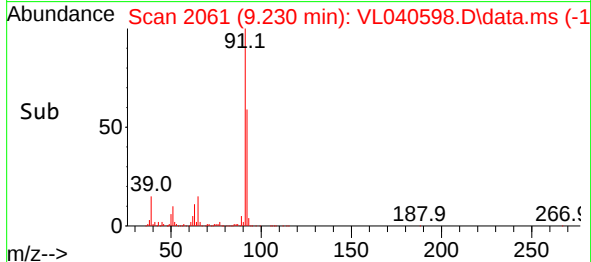
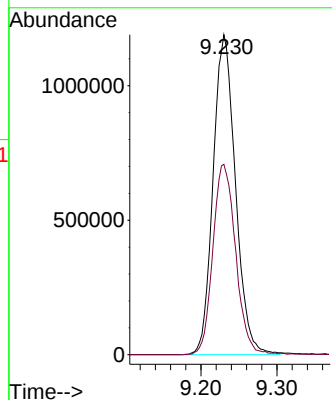
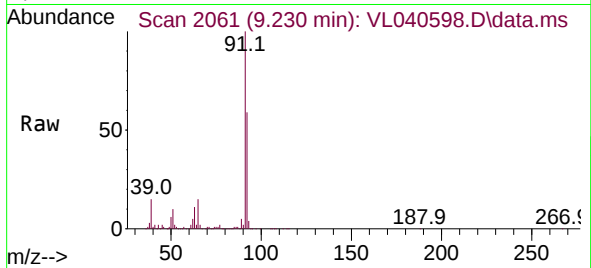
#53
Toluene
Concen: 10.830 ppbv
RT: 9.230 min Scan# 2060
Delta R.T. -0.000 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP

Tgt Ion: 91 Resp: 2427929
Ion Ratio Lower Upper
91 100
92 60.8 49.1 73.7

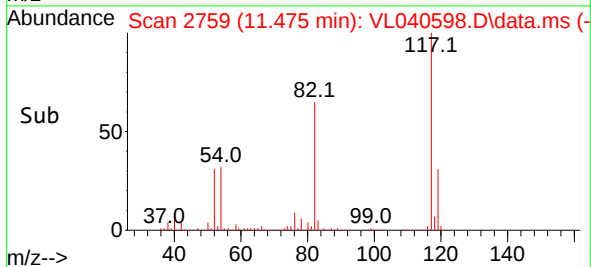
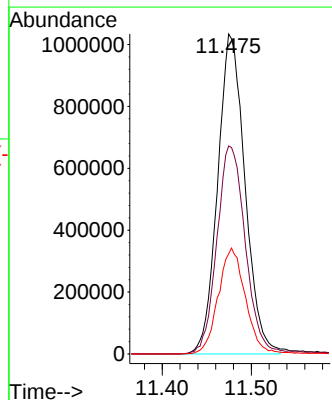
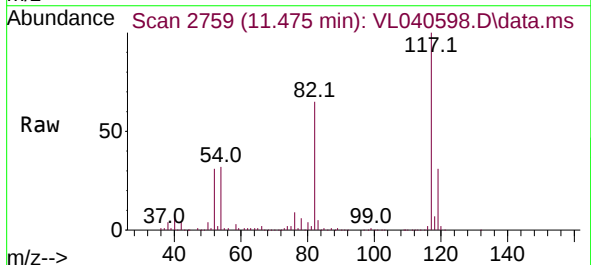
Manual Integrations
APPROVED

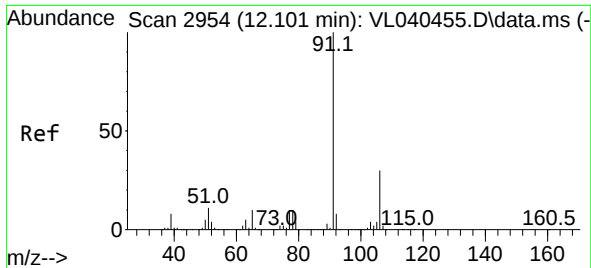
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.475 min Scan# 2759
Delta R.T. -0.003 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

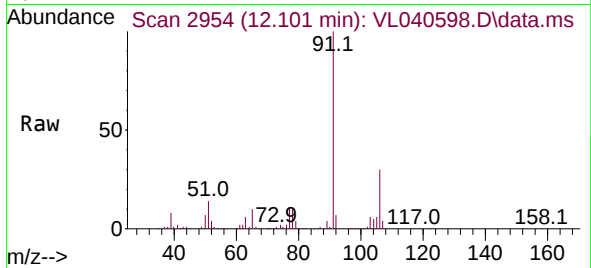
Tgt Ion:117 Resp: 2201573
Ion Ratio Lower Upper
117 100
82 68.6 50.2 75.4
119 33.2 26.9 40.3





#58
Ethyl Benzene
Concen: 1.154 ppbv
RT: 12.101 min Scan# 2954
Delta R.T. -0.000 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

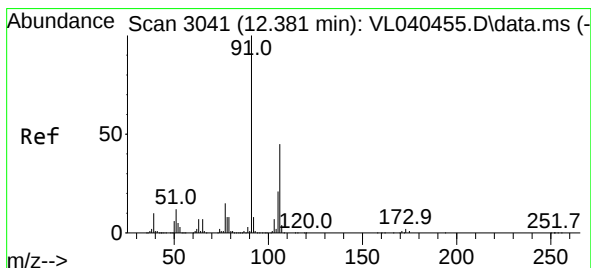
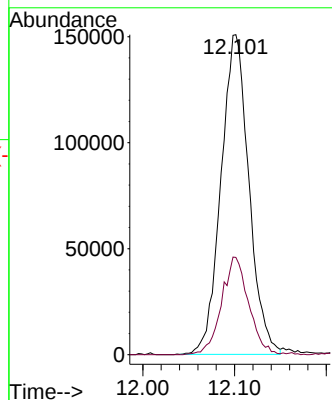
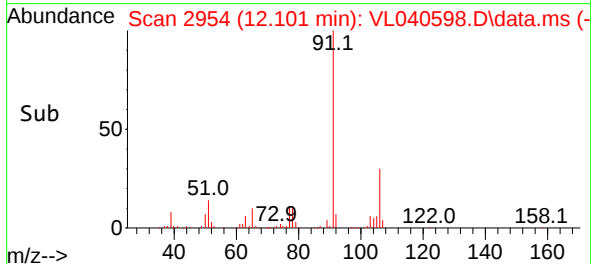
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP



Tgt Ion: 91 Resp: 318859
Ion Ratio Lower Upper
91 100
106 30.4 25.4 38.0

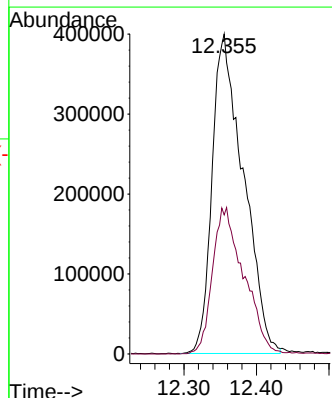
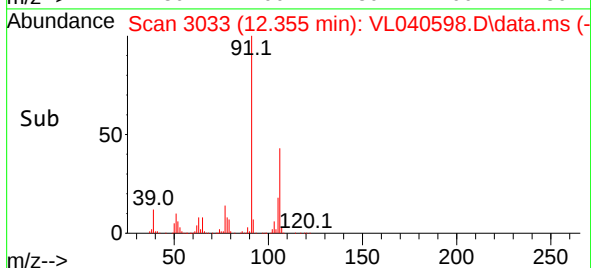
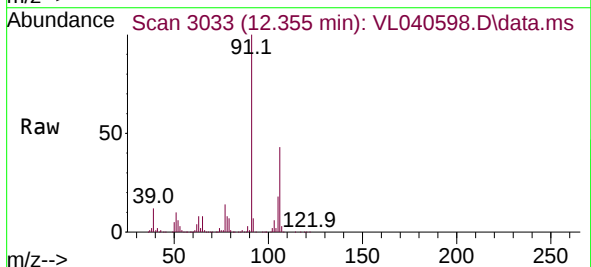
Manual Integrations
APPROVED

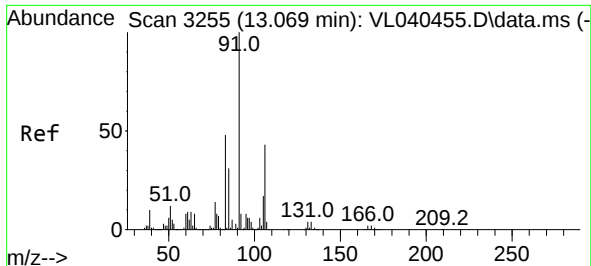
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#59
m/p-Xylene
Concen: 4.852 ppbv
RT: 12.355 min Scan# 3033
Delta R.T. -0.029 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

Tgt Ion: 91 Resp: 1196506
Ion Ratio Lower Upper
91 100
106 46.4 35.9 53.9





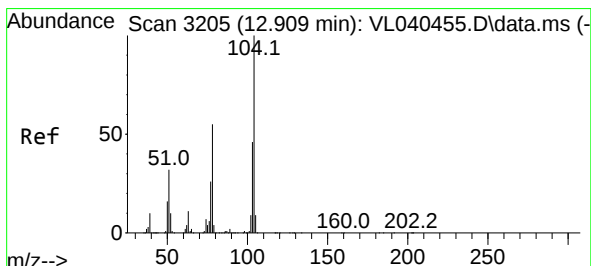
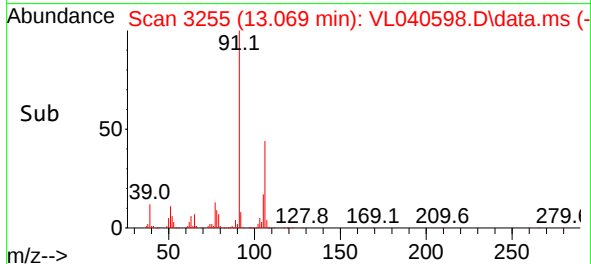
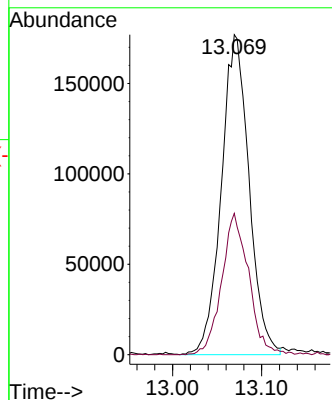
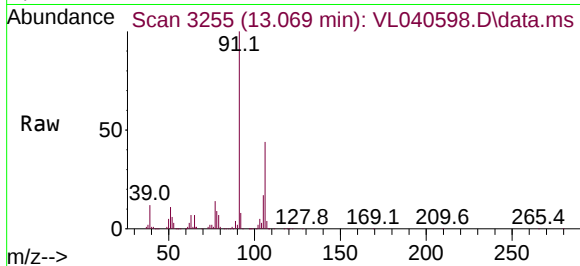
#60
o-Xylene
Concen: 1.630 ppbv
RT: 13.069 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP

Tgt Ion: 91 Resp: 38284
Ion Ratio Lower Upper
91 100
106 43.4 22.7 68.0

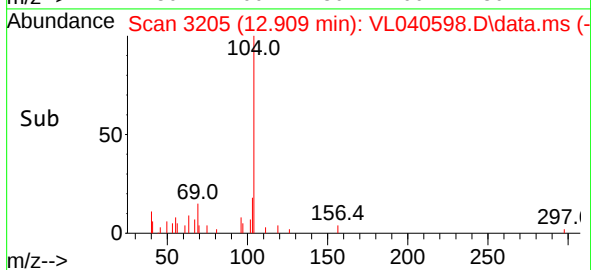
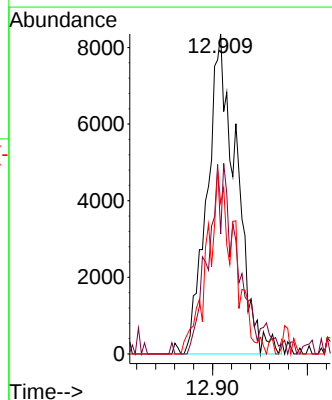
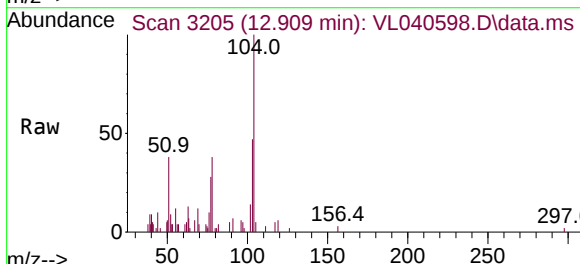
Manual Integrations
APPROVED

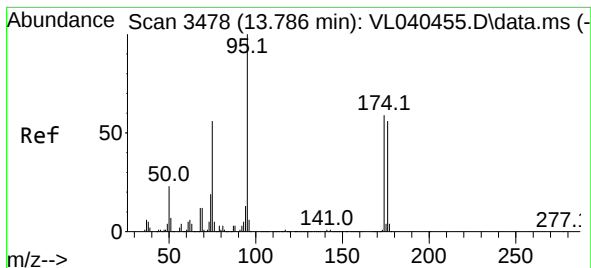
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#61
Styrene
Concen: 0.165 ppbv m
RT: 12.909 min Scan# 3205
Delta R.T. -0.003 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

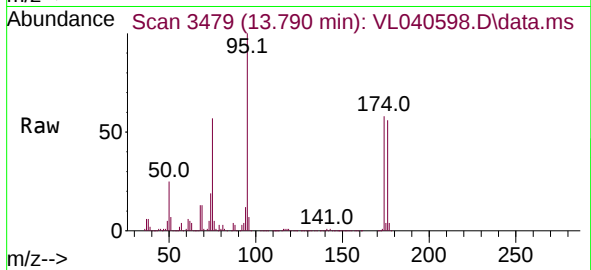
Tgt Ion:104 Resp: 17904
Ion Ratio Lower Upper
104 100
78 62.0 40.1 60.1#
103 54.2 37.0 55.4





#68
1-Bromo-4-Fluorobenzene
Concen: 10.079 ppbv
RT: 13.790 min Scan# 3478
Delta R.T. 0.006 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

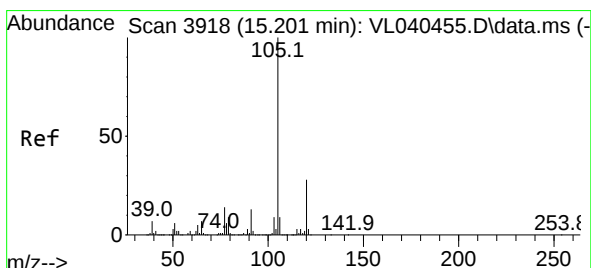
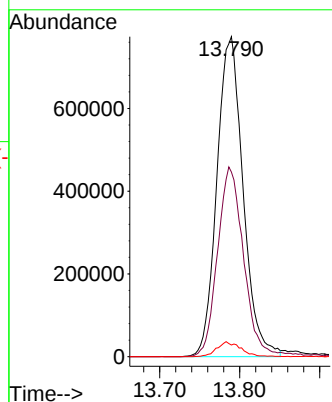
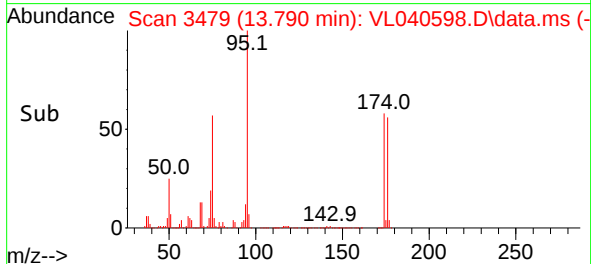
Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP



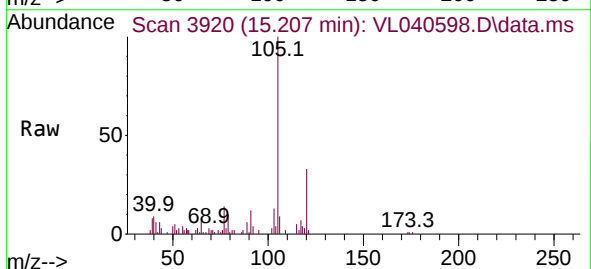
Tgt Ion: 95 Resp: 175617
Ion Ratio Lower Upper
95 100
174 60.0 50.6 75.8
175 4.3 3.7 5.5

Manual Integrations
APPROVED

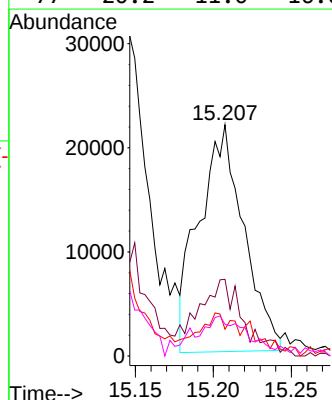
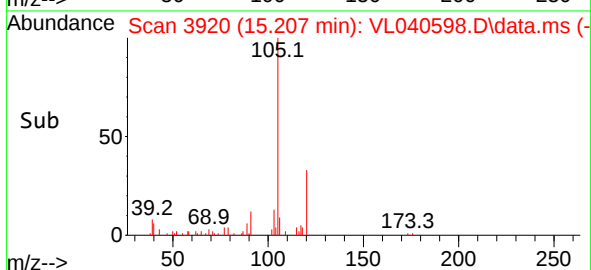
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023

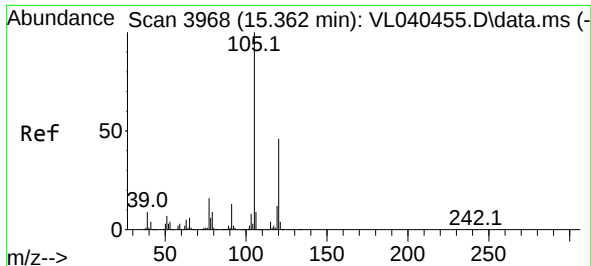


#72
4-Ethyltoluene
Concen: 0.157 ppbv
RT: 15.207 min Scan# 3920
Delta R.T. 0.003 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34



Tgt Ion:105 Resp: 43363
Ion Ratio Lower Upper
105 100
120 36.1 24.6 37.0
91 19.7 10.7 16.1#
77 20.2 11.0 16.6#





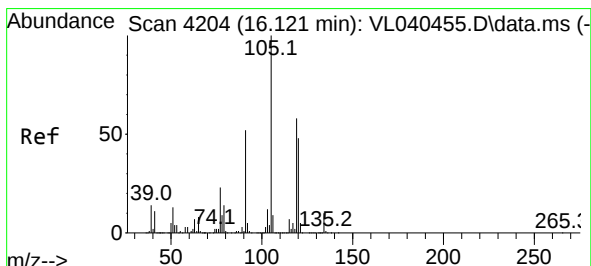
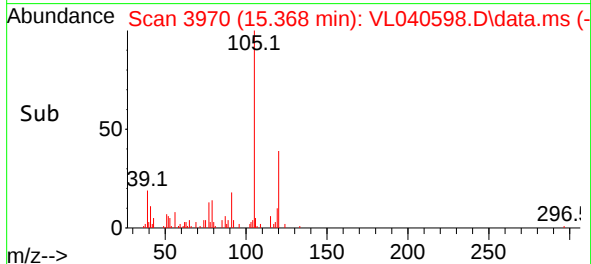
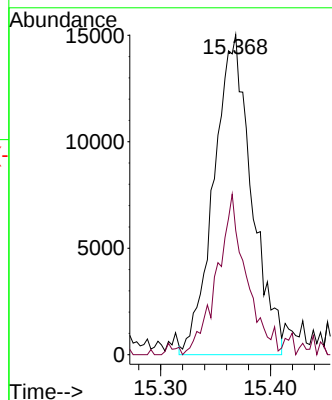
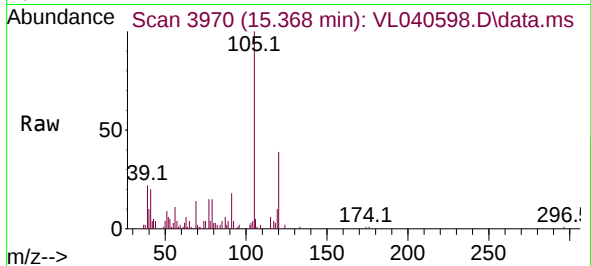
#73
1,3,5-Trimethylbenzene
Concen: 0.148 ppbv m
RT: 15.368 min Scan# 3968
Delta R.T. 0.006 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

Instrument :
MSVOA_L
ClientSampleId :
OA-1DUP

Tgt Ion:105 Resp: 35812
Ion Ratio Lower Upper
105 100
120 38.9 38.2 57.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.445 ppbv
RT: 16.121 min Scan# 4204
Delta R.T. 0.003 min
Lab File: VL040598.D
Acq: 7 Aug 2023 14:34

Tgt Ion:105 Resp: 125923
Ion Ratio Lower Upper
105 100
120 40.7 40.3 60.5
91 14.1 46.8 70.2#
77 16.6 18.6 28.0#

