

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040813.D
 Acq On : 8 Nov 2023 16:38
 Operator : SY/MD
 Sample : 05290-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/11/2023
 Supervised By : Mahesh Dadoda 11/13/2023

Quant Time: Nov 09 00:31:04 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

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

QLast Update : Thu Nov 09 00:25:02 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	975337	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2525620	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.459	117	2093500	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1483782	9.632	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.300%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.771	85	108983	0.635	ppbv	98
3) Chlorodifluoromethane	2.716	51	61791m	0.431	ppbv	
4) Chloromethane	2.851	50	36425	0.644	ppbv	95
9) Propene	2.742	41	89194m	1.675	ppbv	
10) Heptane	7.587	43	31730m	0.237	ppbv	
11) Trichlorofluoromethane	3.591	101	47130	0.356	ppbv	98
13) Ethanol	3.272	45	213953	17.802	ppbv	96
15) Acetone	3.501	43	520739m	5.164	ppbv	
19) Isopropyl Alcohol	3.613	45	338932	5.222	ppbv #	42
20) Methylene Chloride	3.960	84	259040	6.168	ppbv	98
26) Hexane	5.230	57	253445	2.510	ppbv #	44
30) Cyclohexane	6.619	84	11802m	0.137	ppbv	
34) 2-Butanone	4.816	43	82134m	0.718	ppbv	
35) Carbon Tetrachloride	6.501	117	11878m	0.084	ppbv	
36) Benzene	6.378	78	81005	0.417	ppbv	98
44) 2,2,4-Trimethylpentane	7.337	57	77446m	0.236	ppbv	
52) Tetrachloroethene	10.606	164	3318m	0.042	ppbv	
53) Toluene	9.221	91	288578	1.248	ppbv	99
58) Ethyl Benzene	12.086	91	47928m	0.182	ppbv	
59) m/p-Xylene	12.340	91	125920m	0.580	ppbv	
60) o-Xylene	13.050	91	46577m	0.225	ppbv	
61) Styrene	12.886	104	21377m	0.187	ppbv	
74) 1,2,4-Trimethylbenzene	16.089	105	29026m	0.125	ppbv	

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

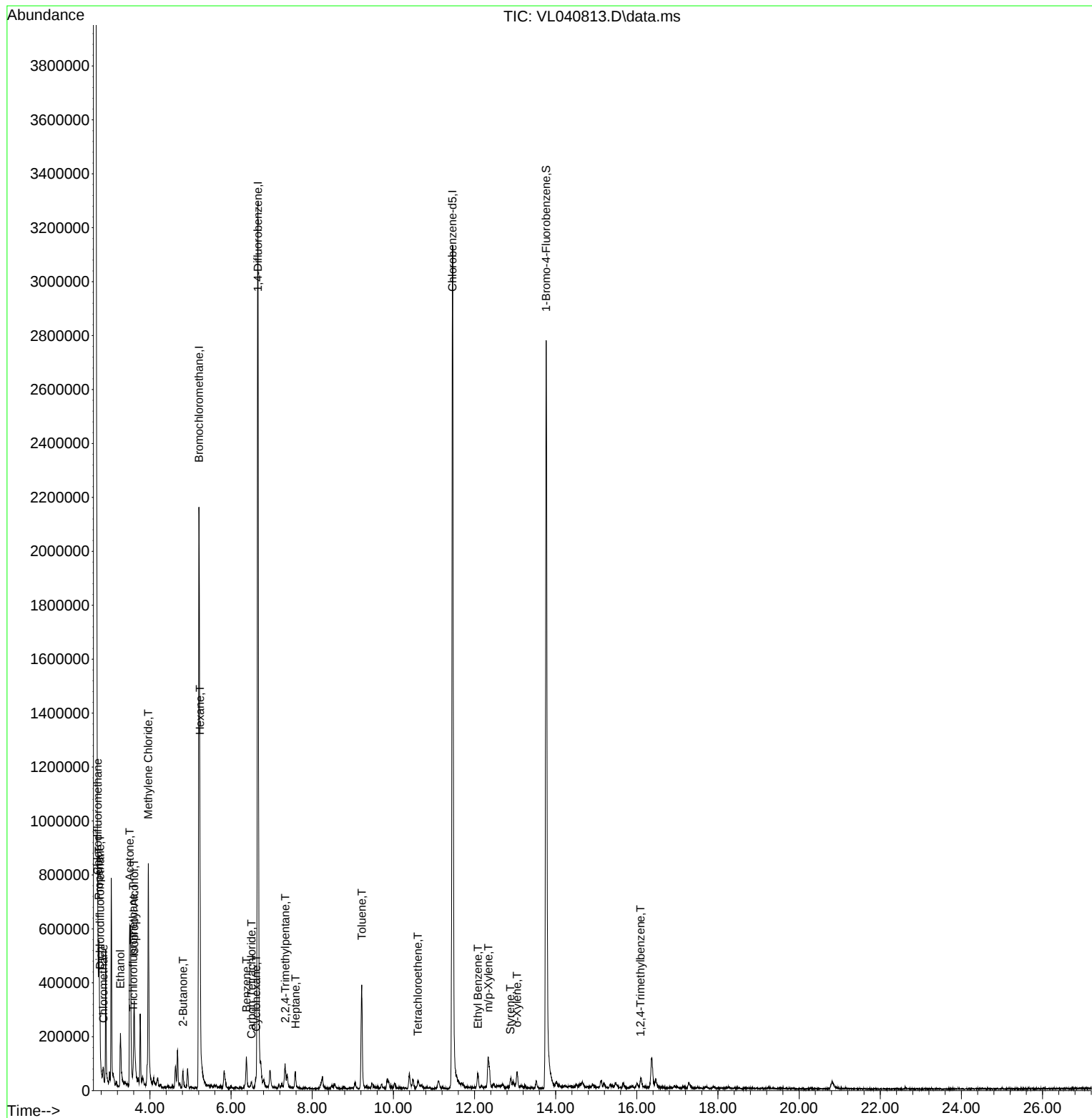
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
Data File : VL040813.D
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Misc : 400mL/MSVOA_L
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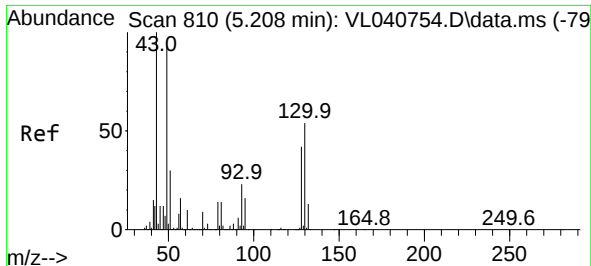
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Quant Time: Nov 09 00:31:04 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Nov 09 00:25:02 2023
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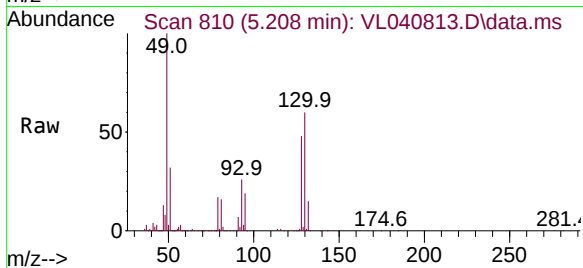
Reviewed By : Semsettin Yesilyurt 11/11/2023
Supervised By : Mahesh Dadoda 11/13/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.000 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

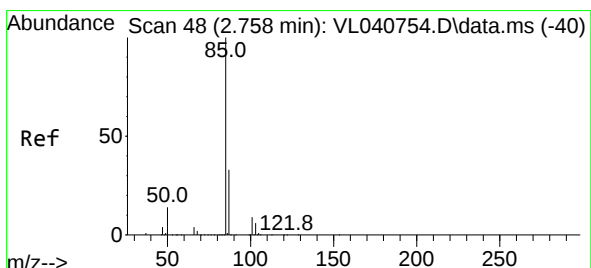
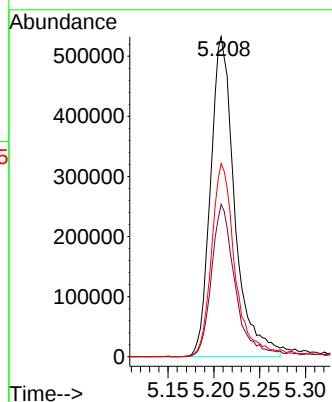
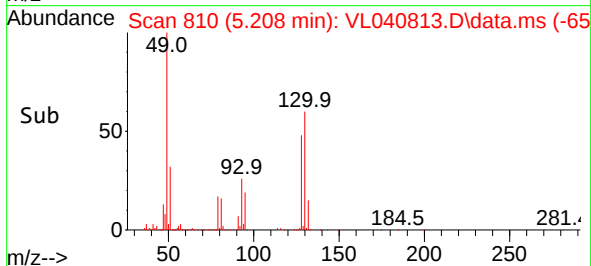
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



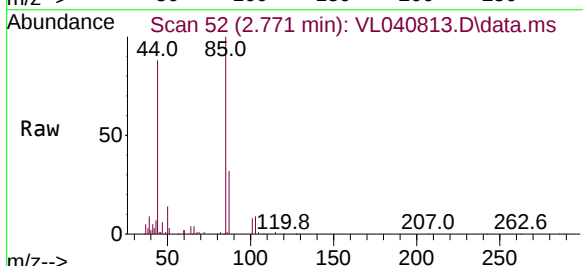
Tgt Ion: 49 Resp: 97533
Ion Ratio Lower Upper
49 100
128 48.6 23.9 71.7
130 61.3 30.7 92.1

Manual Integrations
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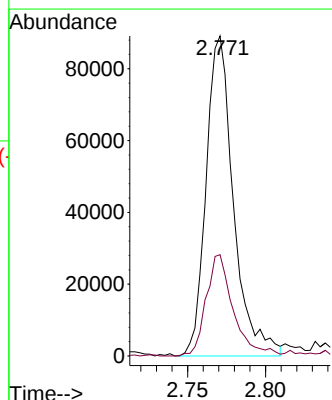
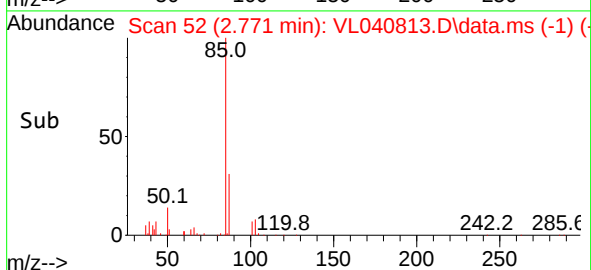
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023

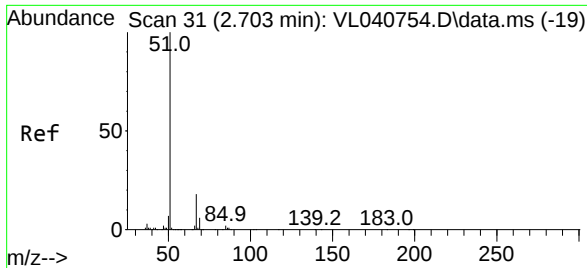


#2
Dichlorodifluoromethane
Concen: 0.635 ppbv
RT: 2.771 min Scan# 52
Delta R.T. 0.000 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38



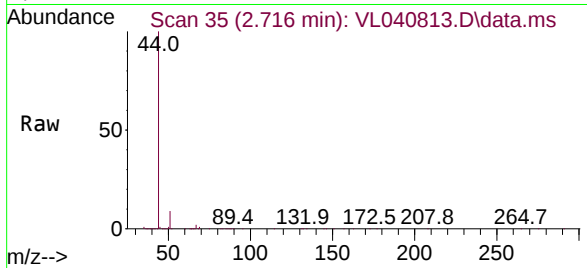
Tgt Ion: 85 Resp: 108983
Ion Ratio Lower Upper
85 100
87 31.5 26.0 39.0





#3
Chlorodifluoromethane
Concen: 0.431 ppbv m
RT: 2.716 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

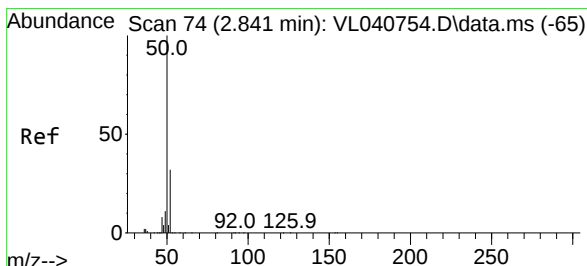
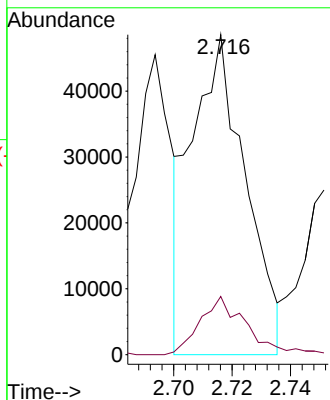
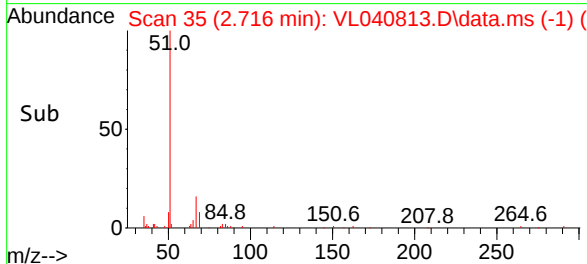
Instrument :
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Tgt Ion: 51 Resp: 6179
Ion Ratio Lower Upper
51 100
67 17.9 13.8 20.6

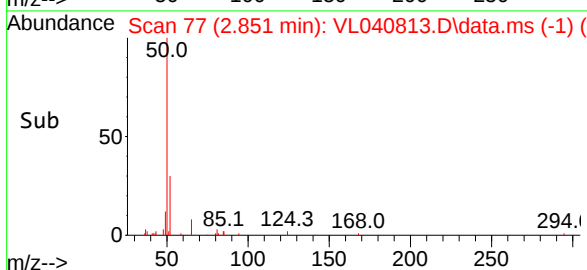
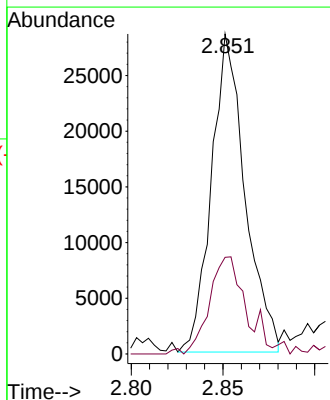
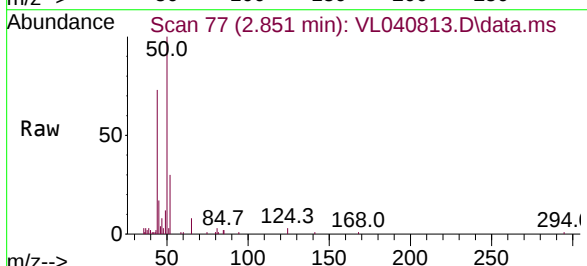
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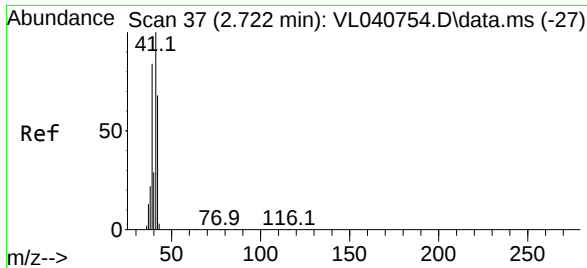
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#4
Chloromethane
Concen: 0.644 ppbv
RT: 2.851 min Scan# 77
Delta R.T. -0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

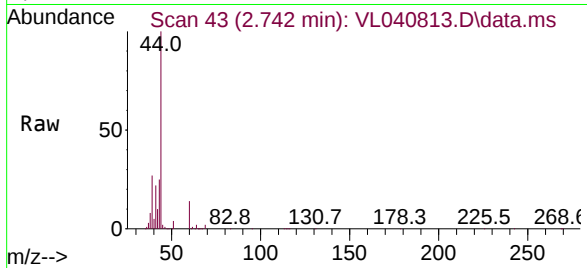
Tgt Ion: 50 Resp: 36425
Ion Ratio Lower Upper
50 100
52 28.7 25.3 37.9





#9
 Propene
 Concen: 1.675 ppbv m
 RT: 2.742 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL040813.D
 Acq: 8 Nov 2023 16:38

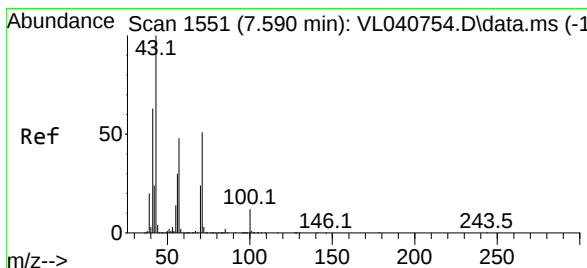
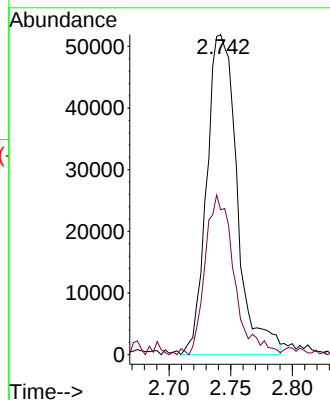
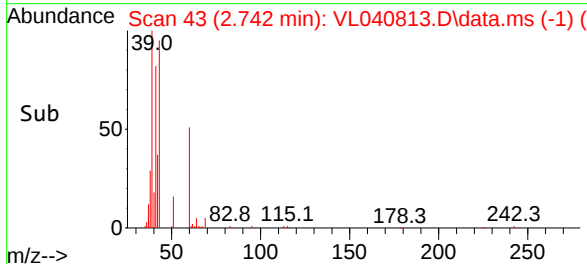
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP



Tgt Ion: 41 Resp: 89194
 Ion Ratio Lower Upper
 41 100
 42 94.0 57.1 85.7

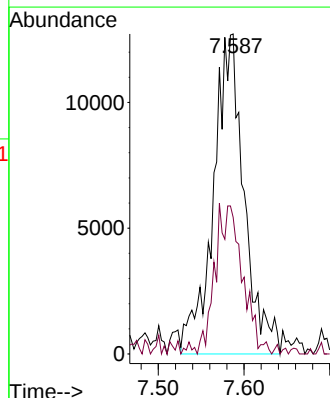
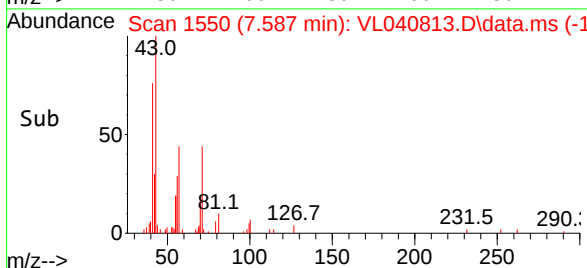
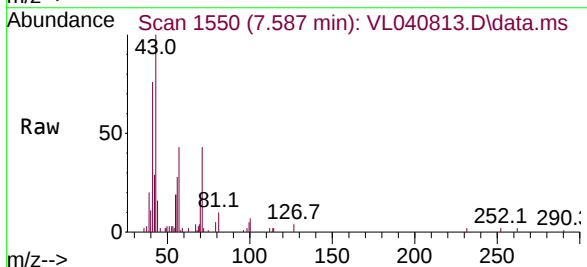
Manual Integrations
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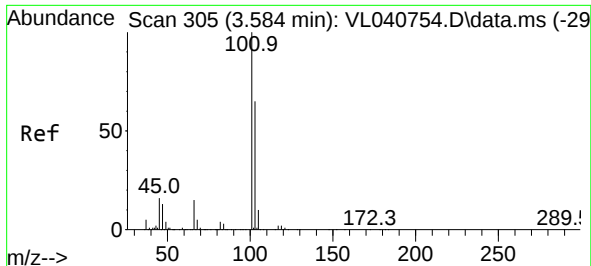
Reviewed By :Semsettin Yesilyurt 11/11/2023
 Supervised By :Mahesh Dadoda 11/13/2023



#10
 Heptane
 Concen: 0.237 ppbv m
 RT: 7.587 min Scan# 1550
 Delta R.T. 0.000 min
 Lab File: VL040813.D
 Acq: 8 Nov 2023 16:38

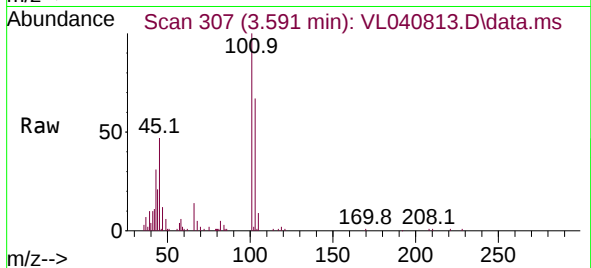
Tgt Ion: 43 Resp: 31730
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.0 60.0





#11
Trichlorofluoromethane
Concen: 0.356 ppbv
RT: 3.591 min Scan# 305
Delta R.T. -0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

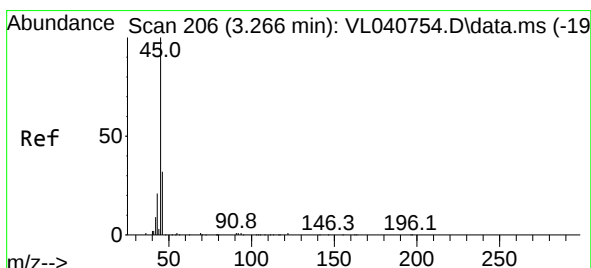
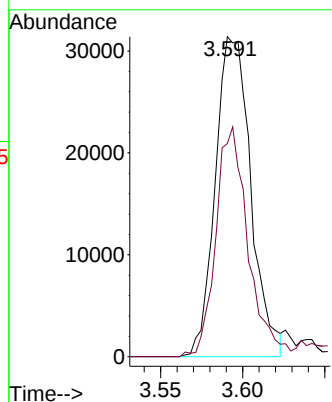
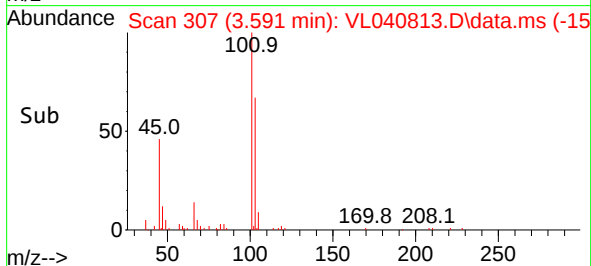
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



Tgt Ion:101 Resp: 47130
Ion Ratio Lower Upper
101 100
103 66.7 52.2 78.2

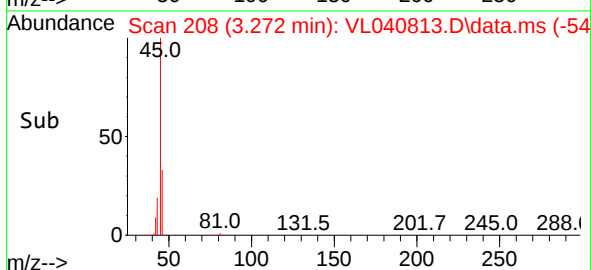
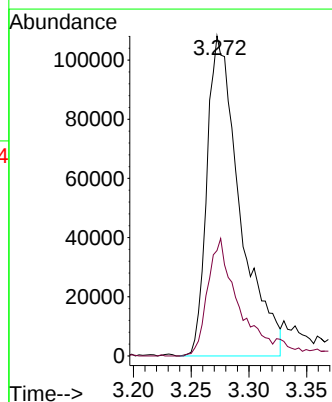
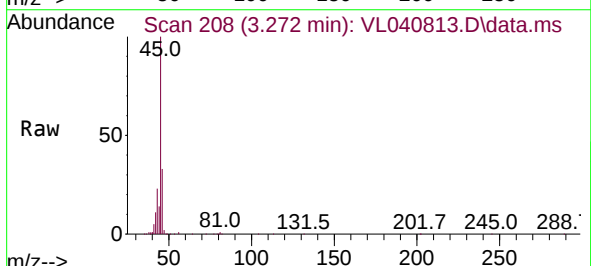
Manual Integrations
APPROVED

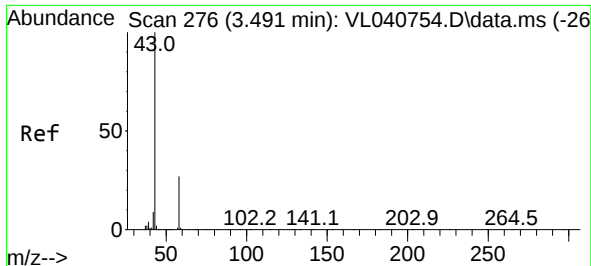
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#13
Ethanol
Concen: 17.802 ppbv
RT: 3.272 min Scan# 208
Delta R.T. -0.006 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

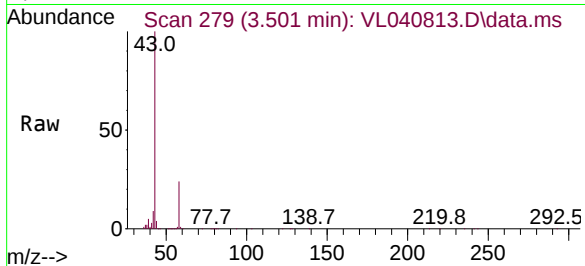
Tgt Ion: 45 Resp: 213953
Ion Ratio Lower Upper
45 100
46 38.5 14.6 58.2





#15
Acetone
Concen: 5.164 ppbv m
RT: 3.501 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

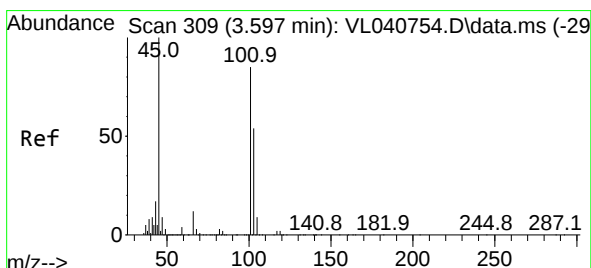
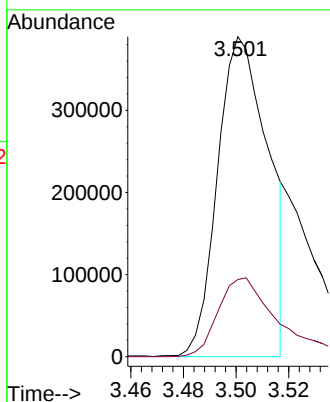
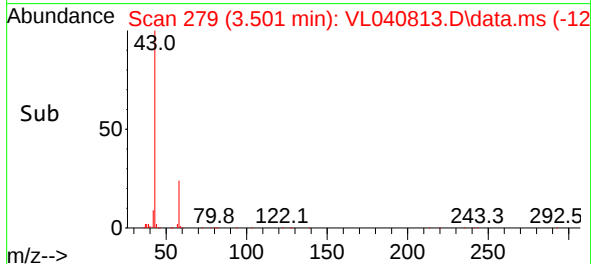
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



Tgt Ion: 43 Resp: 520739
Ion Ratio Lower Upper
43 100
58 31.4 21.6 32.4

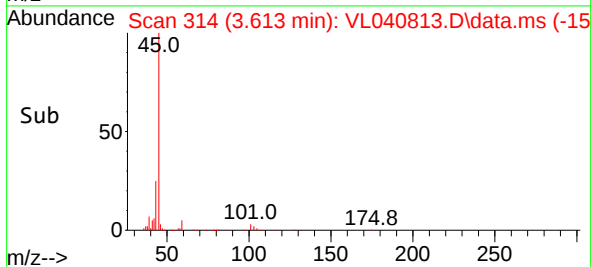
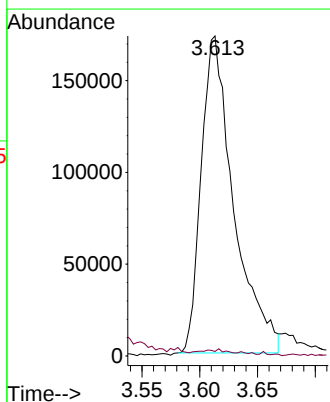
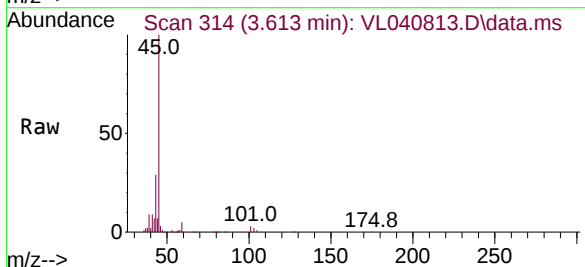
Manual Integrations
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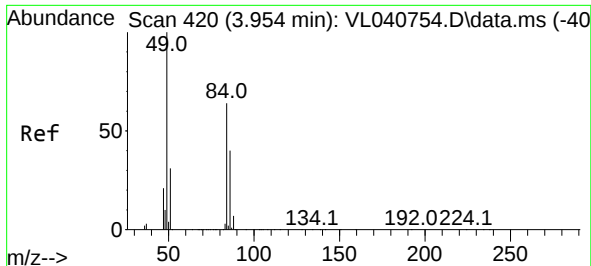
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#19
Isopropyl Alcohol
Concen: 5.222 ppbv
RT: 3.613 min Scan# 314
Delta R.T. 0.007 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

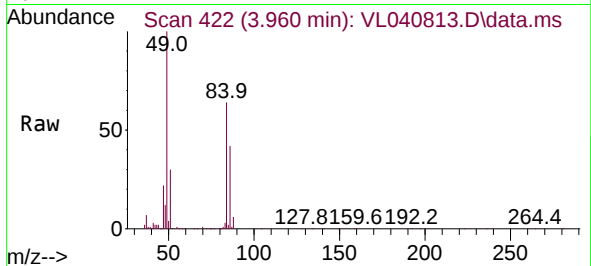
Tgt Ion: 45 Resp: 338932
Ion Ratio Lower Upper
45 100
58 2.7 30.3 45.5#





#20
Methylene Chloride
Concen: 6.168 ppbv
RT: 3.960 min Scan# 420
Delta R.T. 0.000 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

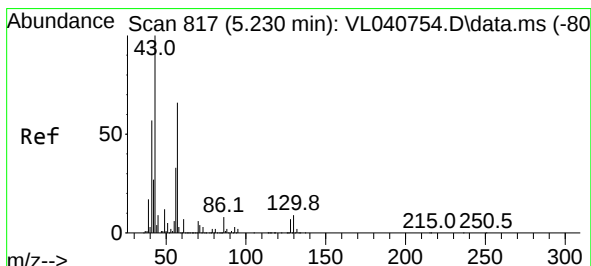
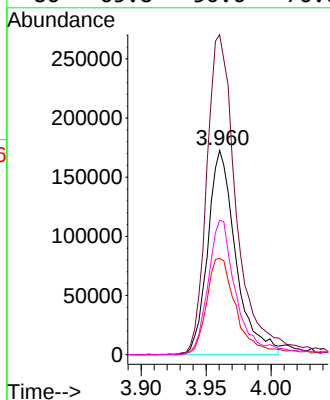
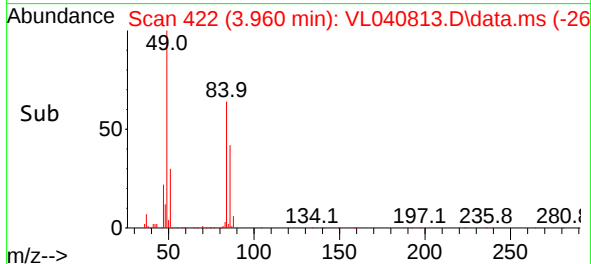
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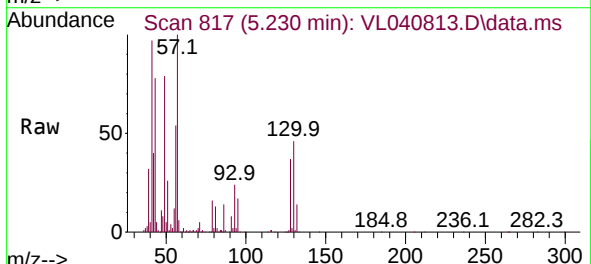
Tgt Ion: 84 Resp: 259040
Ion Ratio Lower Upper
84 100
49 156.2 125.6 188.4
51 46.7 38.9 58.3
86 65.8 50.6 76.0

Manual Integrations
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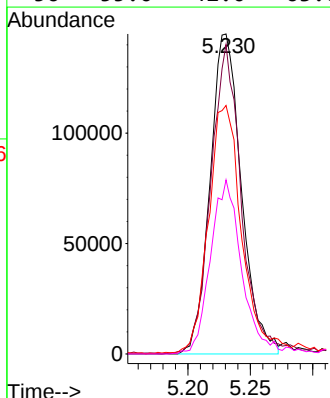
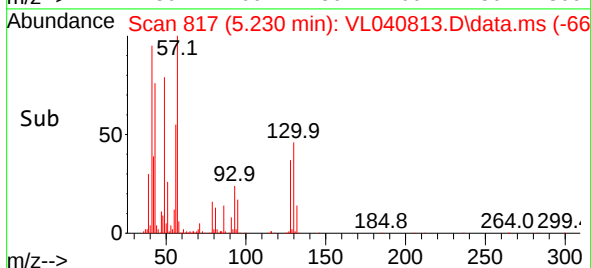
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Supervised By :Mahesh Dadoda 11/13/2023

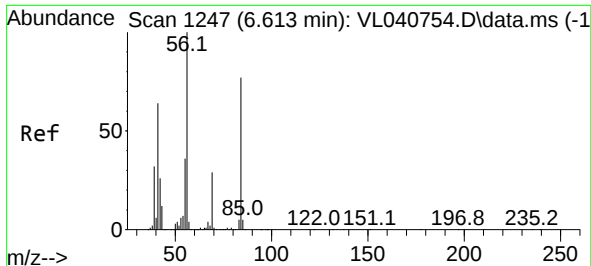


#26
Hexane
Concen: 2.510 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38



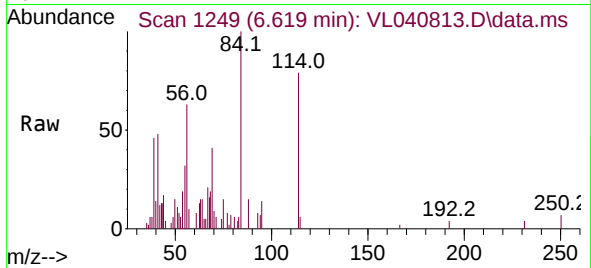
Tgt Ion: 57 Resp: 253445
Ion Ratio Lower Upper
57 100
41 95.3 71.4 107.2
43 83.8 182.3 273.5#
56 55.0 42.0 63.0





#30
Cyclohexane
Concen: 0.137 ppbv m
RT: 6.619 min Scan# 1180
Delta R.T. 0.010 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

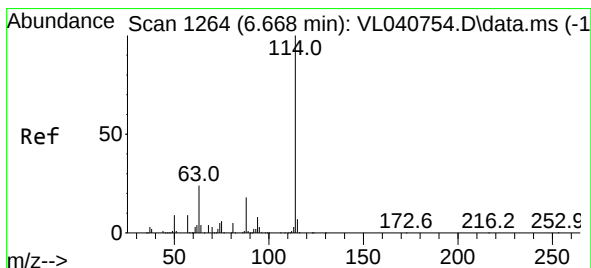
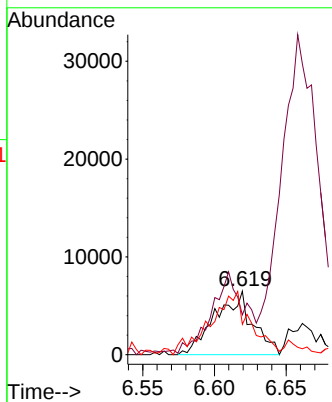
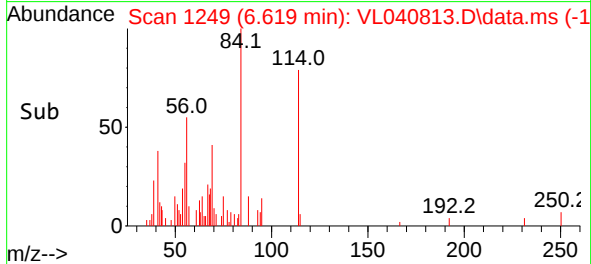
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



Tgt Ion: 84 Resp: 1180
Ion Ratio Lower Upper
84 100
56 107.8 110.3 165.5
41 0.0 67.4 101.2

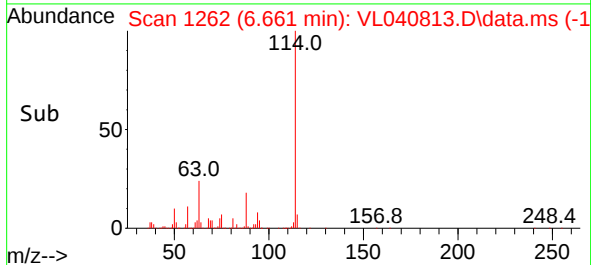
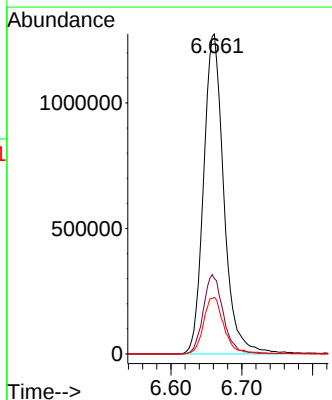
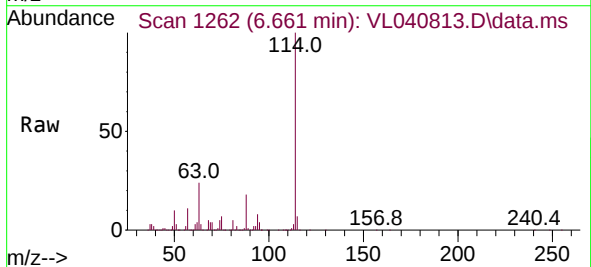
Manual Integrations
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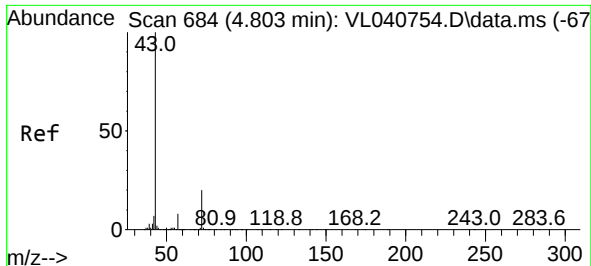
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

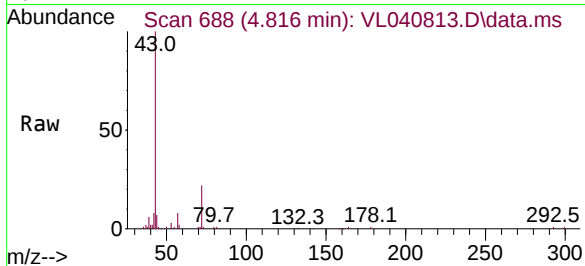
Tgt Ion:114 Resp: 2525620
Ion Ratio Lower Upper
114 100
63 24.7 19.8 29.6
88 17.8 14.2 21.2





#34
2-Butanone
Concen: 0.718 ppbv m
RT: 4.816 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

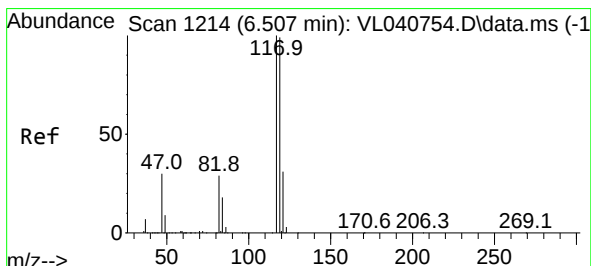
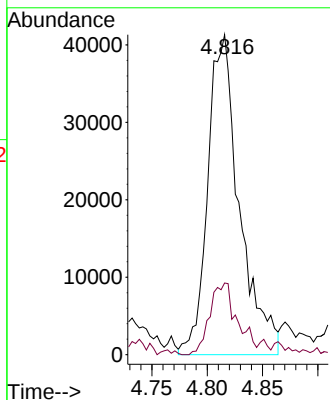
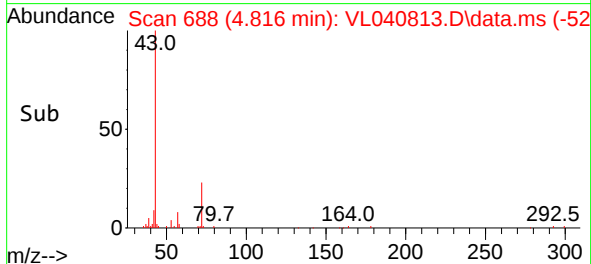
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



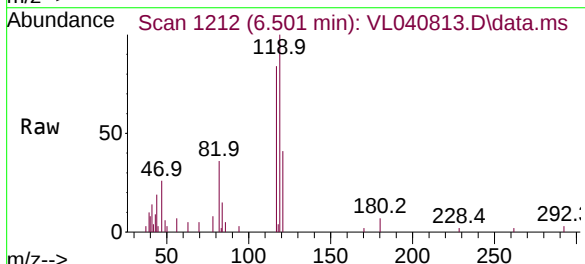
Tgt Ion: 43 Resp: 82134
Ion Ratio Lower Upper
43 100
72 20.5 16.8 25.2

Manual Integrations
APPROVED

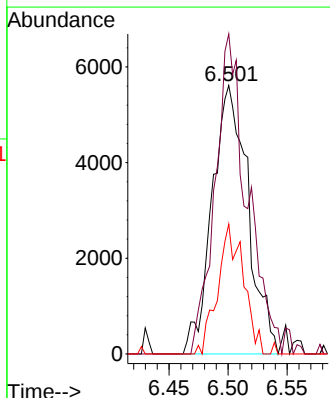
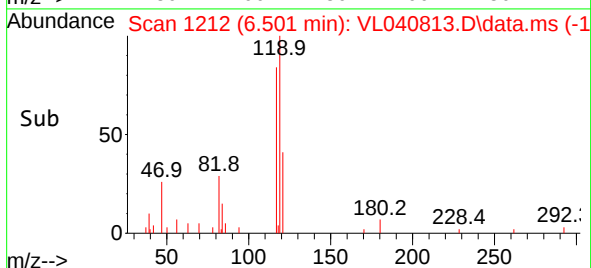
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023

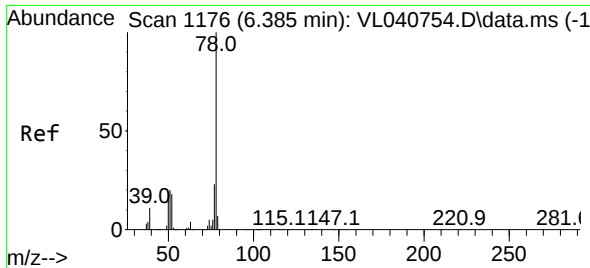


#35
Carbon Tetrachloride
Concen: 0.084 ppbv m
RT: 6.501 min Scan# 1212
Delta R.T. -0.006 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38



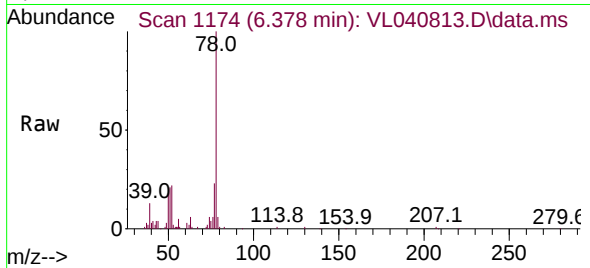
Tgt Ion:117 Resp: 11878
Ion Ratio Lower Upper
117 100
119 119.2 79.4 119.0#
121 48.4 25.0 37.4#





#36
Benzene
Concen: 0.417 ppbv
RT: 6.378 min Scan# 1176
Delta R.T. -0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

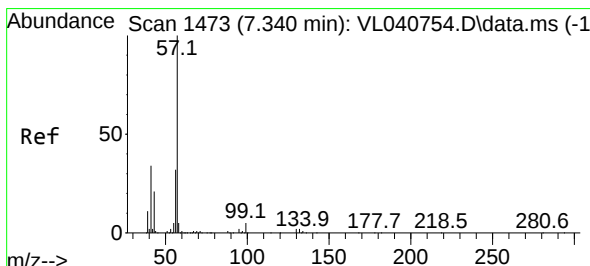
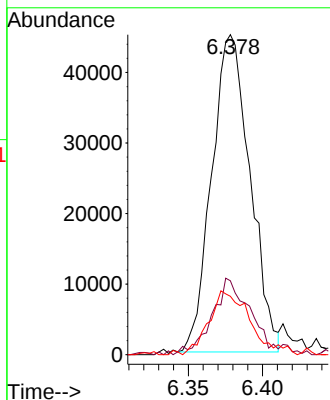
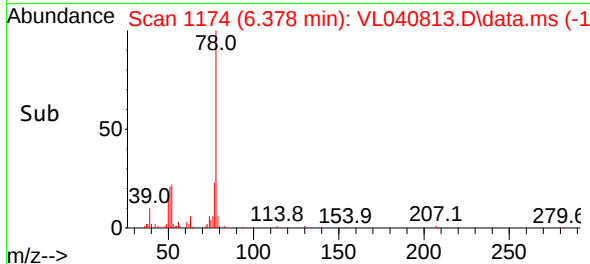
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



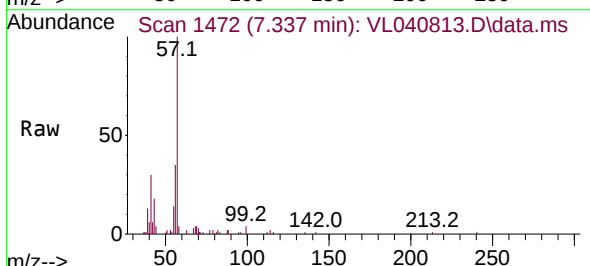
Tgt Ion: 78 Resp: 8100
Ion Ratio Lower Upper
78 100
77 22.4 18.4 27.6
50 17.6 15.0 22.4

Manual Integrations
APPROVED

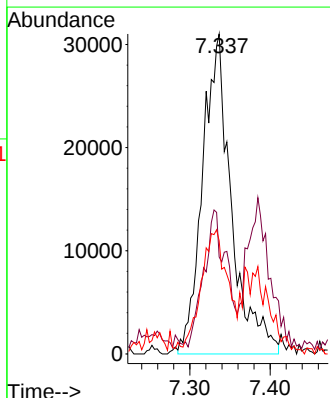
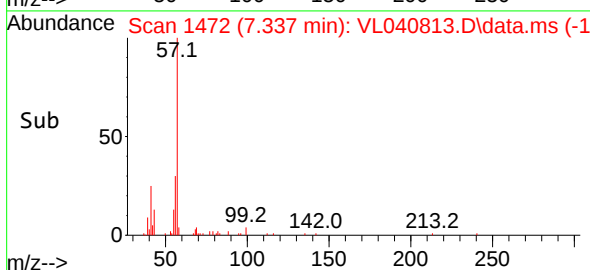
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023

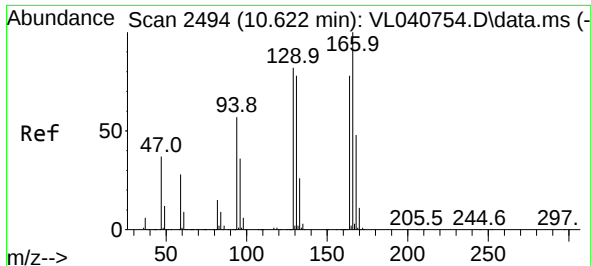


#44
2,2,4-Trimethylpentane
Concen: 0.236 ppbv m
RT: 7.337 min Scan# 1472
Delta R.T. 0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38



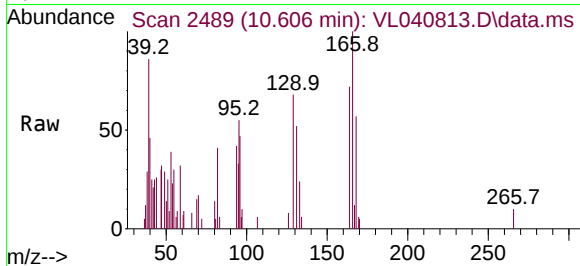
Tgt Ion: 57 Resp: 77446
Ion Ratio Lower Upper
57 100
41 36.5 27.4 41.0
56 36.5 25.0 37.6





#52
Tetrachloroethene
Concen: 0.042 ppbv m
RT: 10.606 min Scan# 2494
Delta R.T. -0.006 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

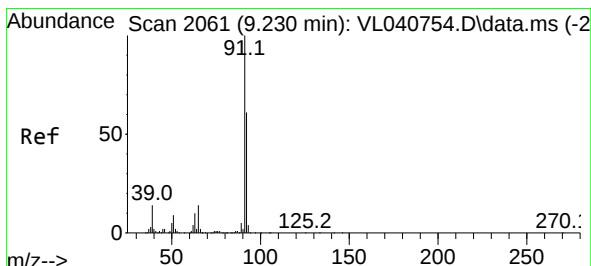
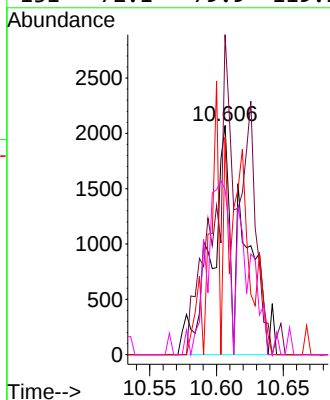
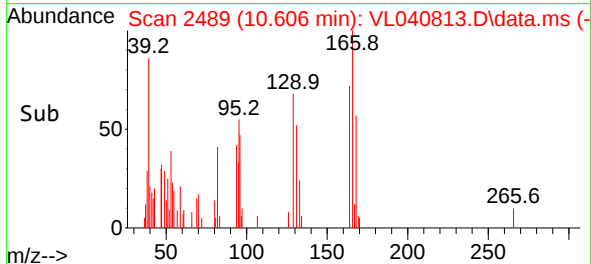
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



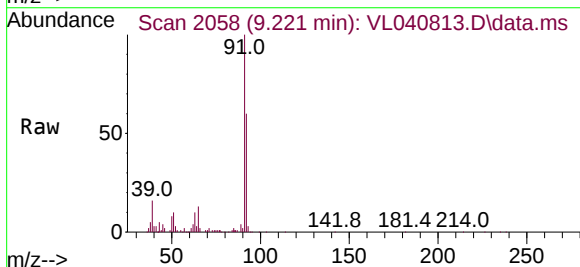
Tgt Ion:164 Resp: 3318
Ion Ratio Lower Upper
164 100
166 139.6 102.4 153.6
129 94.9 84.2 126.4
131 72.1 79.9 119.9#

Manual Integrations
APPROVED

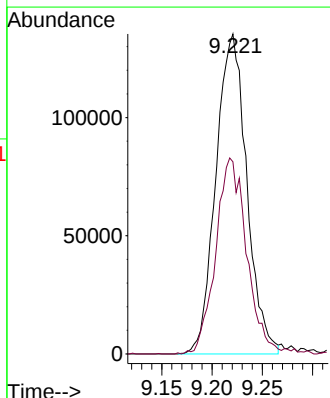
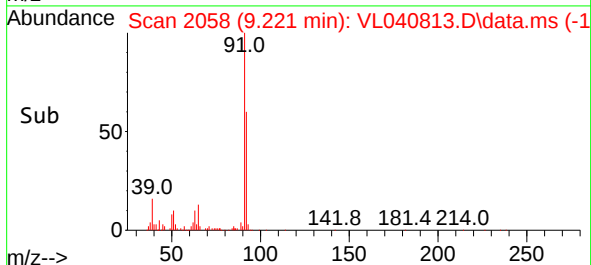
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023

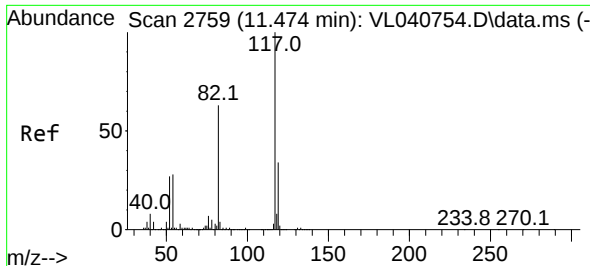


#53
Toluene
Concen: 1.248 ppbv
RT: 9.221 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38



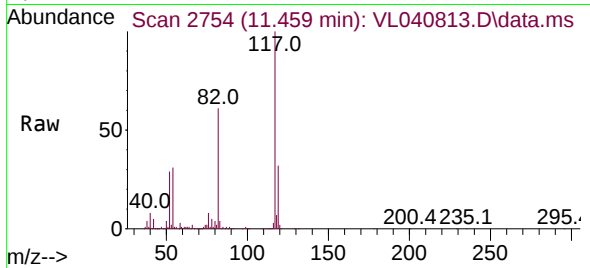
Tgt Ion: 91 Resp: 288578
Ion Ratio Lower Upper
91 100
92 62.0 50.2 75.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.459 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

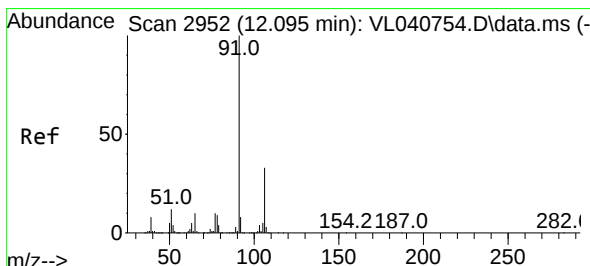
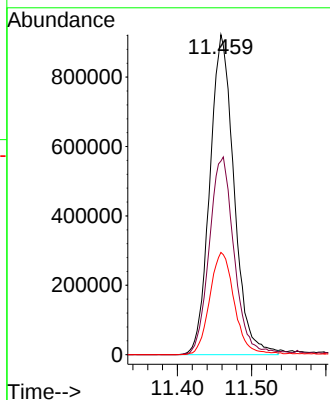
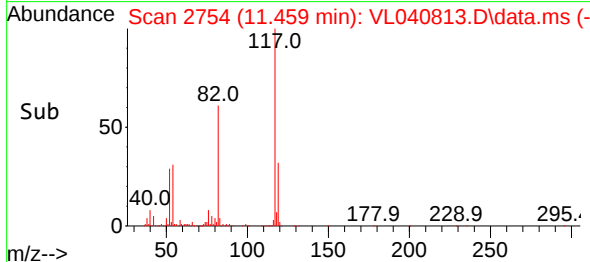
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



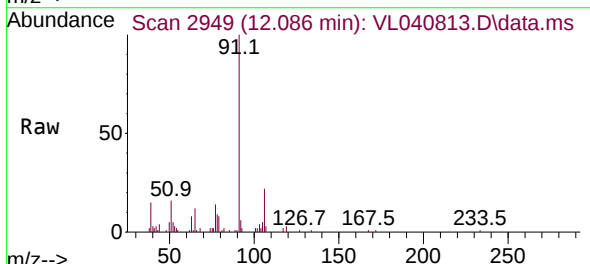
Tgt Ion:117 Resp: 2093500
Ion Ratio Lower Upper
117 100
82 65.3 46.6 70.0
119 33.0 26.0 39.0

Manual Integrations
APPROVED

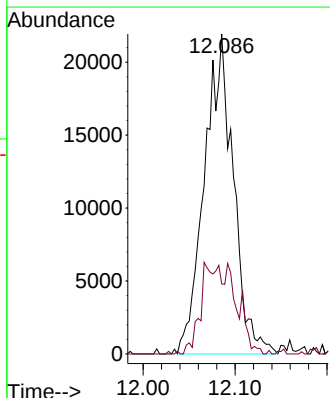
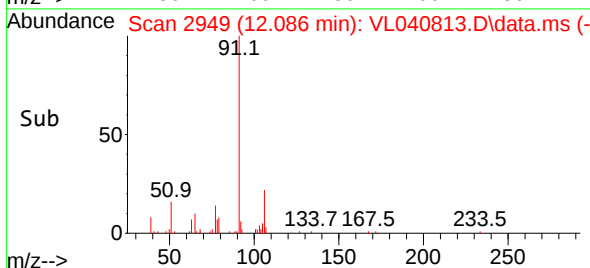
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023

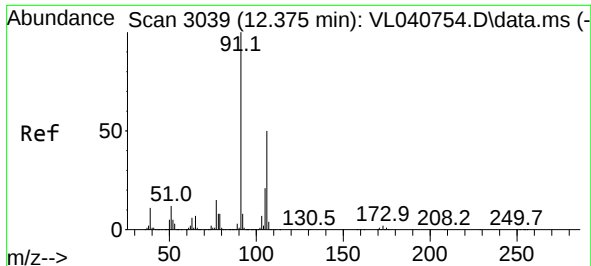


#58
Ethyl Benzene
Concen: 0.182 ppbv m
RT: 12.086 min Scan# 2949
Delta R.T. 0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38



Tgt Ion: 91 Resp: 47928
Ion Ratio Lower Upper
91 100
106 21.9 26.7 40.1#





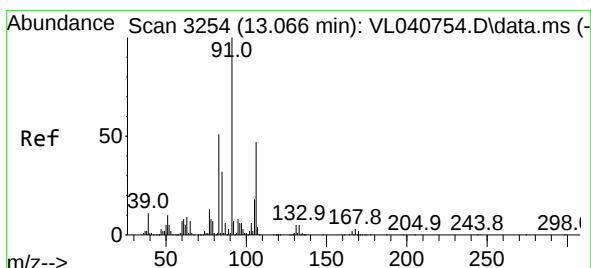
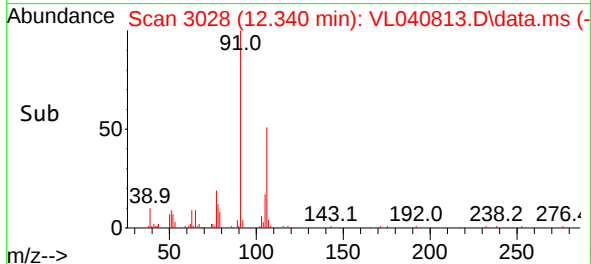
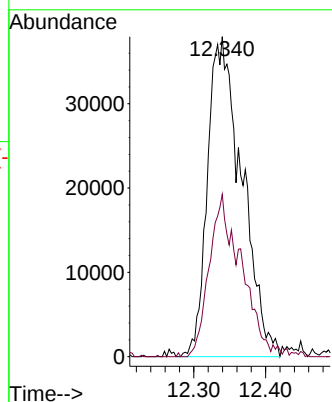
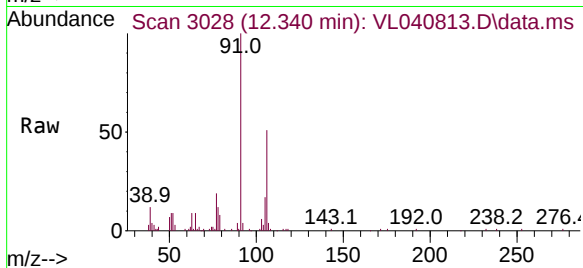
#59
m/p-Xylene
Concen: 0.580 ppbv m
RT: 12.340 min Scan# 3039
Delta R.T. -0.029 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Tgt Ion: 91 Resp: 125920
Ion Ratio Lower Upper
91 100
106 0.0 37.7 56.5

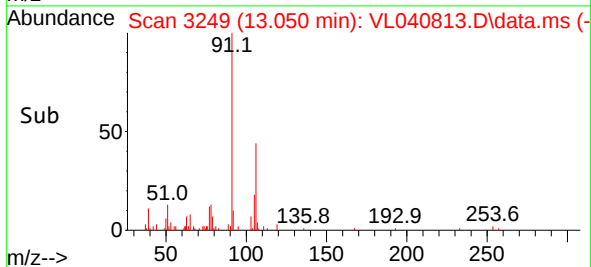
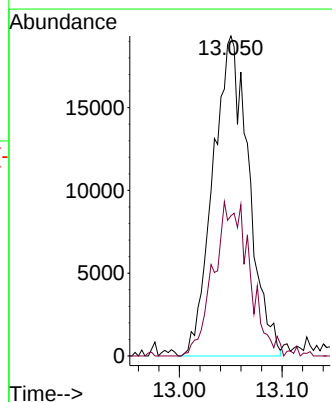
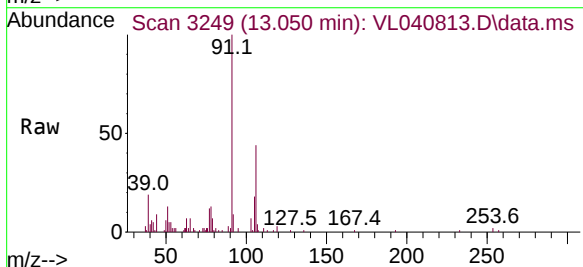
Manual Integrations
APPROVED

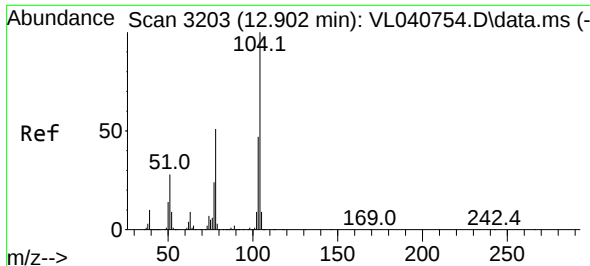
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#60
o-Xylene
Concen: 0.225 ppbv m
RT: 13.050 min Scan# 3249
Delta R.T. -0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

Tgt Ion: 91 Resp: 46577
Ion Ratio Lower Upper
91 100
106 49.6 23.5 70.5





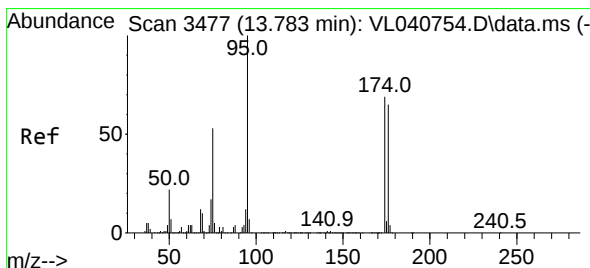
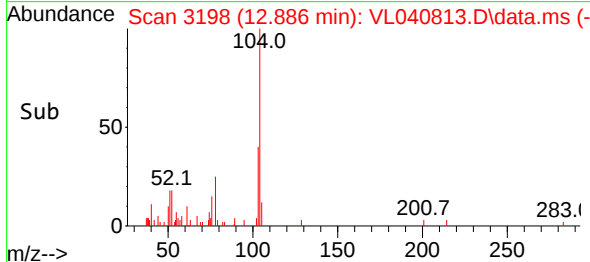
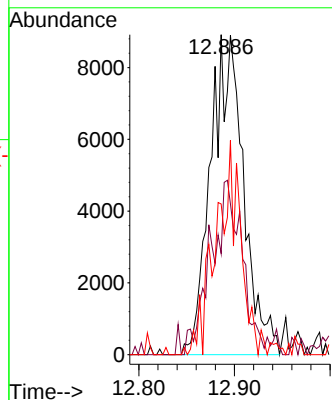
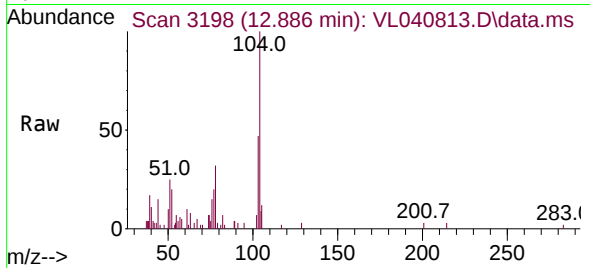
#61
Styrene
Concen: 0.187 ppbv m
RT: 12.886 min Scan# 3198
Delta R.T. -0.006 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Tgt Ion:104 Resp: 2137
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6
103 0.0 37.5 56.3

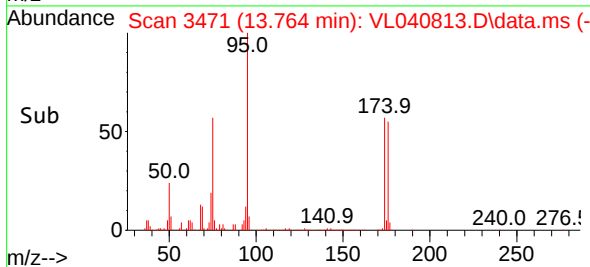
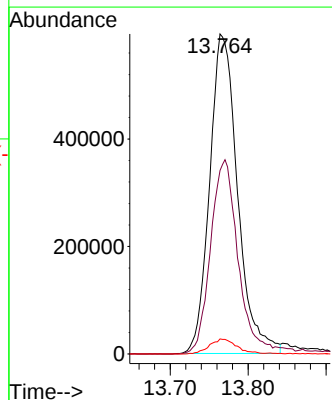
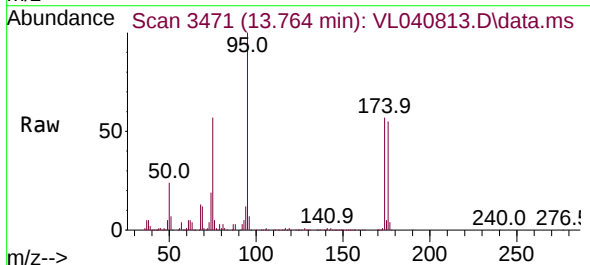
Manual Integrations
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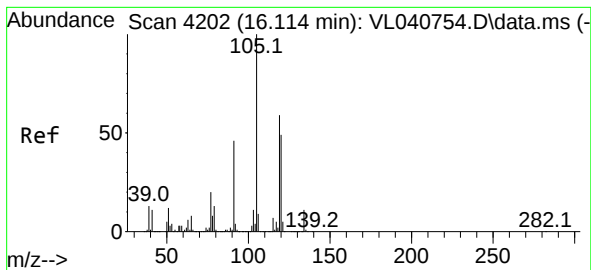
Reviewed By :Semsettin Yesilyurt 11/11/2023
Supervised By :Mahesh Dadoda 11/13/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.632 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. -0.006 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

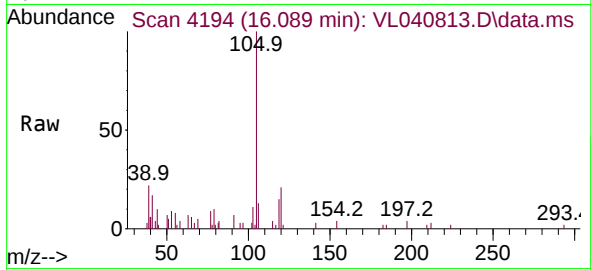
Tgt Ion: 95 Resp: 1483782
Ion Ratio Lower Upper
95 100
174 62.0 54.7 82.1
175 4.8 4.2 6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.125 ppbv m
 RT: 16.089 min Scan# 41
 Delta R.T. -0.013 min
 Lab File: VL040813.D
 Acq: 8 Nov 2023 16:38

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP



Tgt Ion:	105	Resp:	2902
Ion	Ratio	Lower	Upper
105	100		
120	21.5	39.4	59.2
91	6.8	38.6	58.0
77	8.9	16.6	25.0

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/11/2023
 Supervised By :Mahesh Dadoda 11/13/2023

