

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040390.D
 Acq On : 19 Apr 2023 21:45
 Operator : SY/MD
 Sample : 02410-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02-20230417

Quant Time: Apr 20 07:48:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/20/2023
 Supervised By : Mahesh Dadoda 04/22/2023

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

Internal Standards						
1) Bromochloromethane	5.176	49	1066389	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.639	114	2791780	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.459	117	2574910	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2174056	10.210	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.100%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.710	85	27502	0.143	ppbv	98
4) Chloromethane	2.793	50	21722	0.247	ppbv	90
7) Chloroethane	3.176	64	8471	0.308	ppbv	98
9) Propene	2.681	41	1877671m	34.108	ppbv	
10) Heptane	7.565	43	140508	1.123	ppbv	95
11) Trichlorofluoromethane	3.542	101	74849	0.385	ppbv	97
13) Ethanol	3.214	45	17216m	3.746	ppbv	
15) Acetone	3.446	43	753978	4.992	ppbv #	47
17) tert-Butyl alcohol	3.874	59	29802	0.215	ppbv #	72
20) Methylene Chloride	3.915	84	25733	0.427	ppbv	92
26) Hexane	5.198	57	667237	6.227	ppbv #	37
27) Carbon Disulfide	4.108	76	127858	0.922	ppbv	97
29) Chloroform	5.253	83	17988	0.094	ppbv	91
30) Cyclohexane	6.584	84	145322m	1.751	ppbv	
34) 2-Butanone	4.767	43	616519	4.095	ppbv	97
36) Benzene	6.356	78	608309	2.671	ppbv	99
38) Trichloroethene	7.275	130	9412m	0.073	ppbv	
44) 2,2,4-Trimethylpentane	7.314	57	213490	0.561	ppbv #	47
51) 2-Hexanone	9.545	43	118131m	0.700	ppbv	
52) Tetrachloroethene	10.606	164	14159m	0.199	ppbv	
53) Toluene	9.211	91	416679	1.726	ppbv	99
58) Ethyl Benzene	12.079	91	168383	0.532	ppbv	94
59) m/p-Xylene	12.333	91	383572	1.317	ppbv	96
60) o-Xylene	13.050	91	279009	0.998	ppbv	98
62) Isopropylbenzene	14.024	105	39175m	0.097	ppbv	
67) sec-Butylbenzene	16.632	105	52210m	0.103	ppbv	
73) 1,3,5-Trimethylbenzene	15.346	105	274591	0.963	ppbv	96
74) 1,2,4-Trimethylbenzene	16.105	105	307969	0.945	ppbv #	65

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

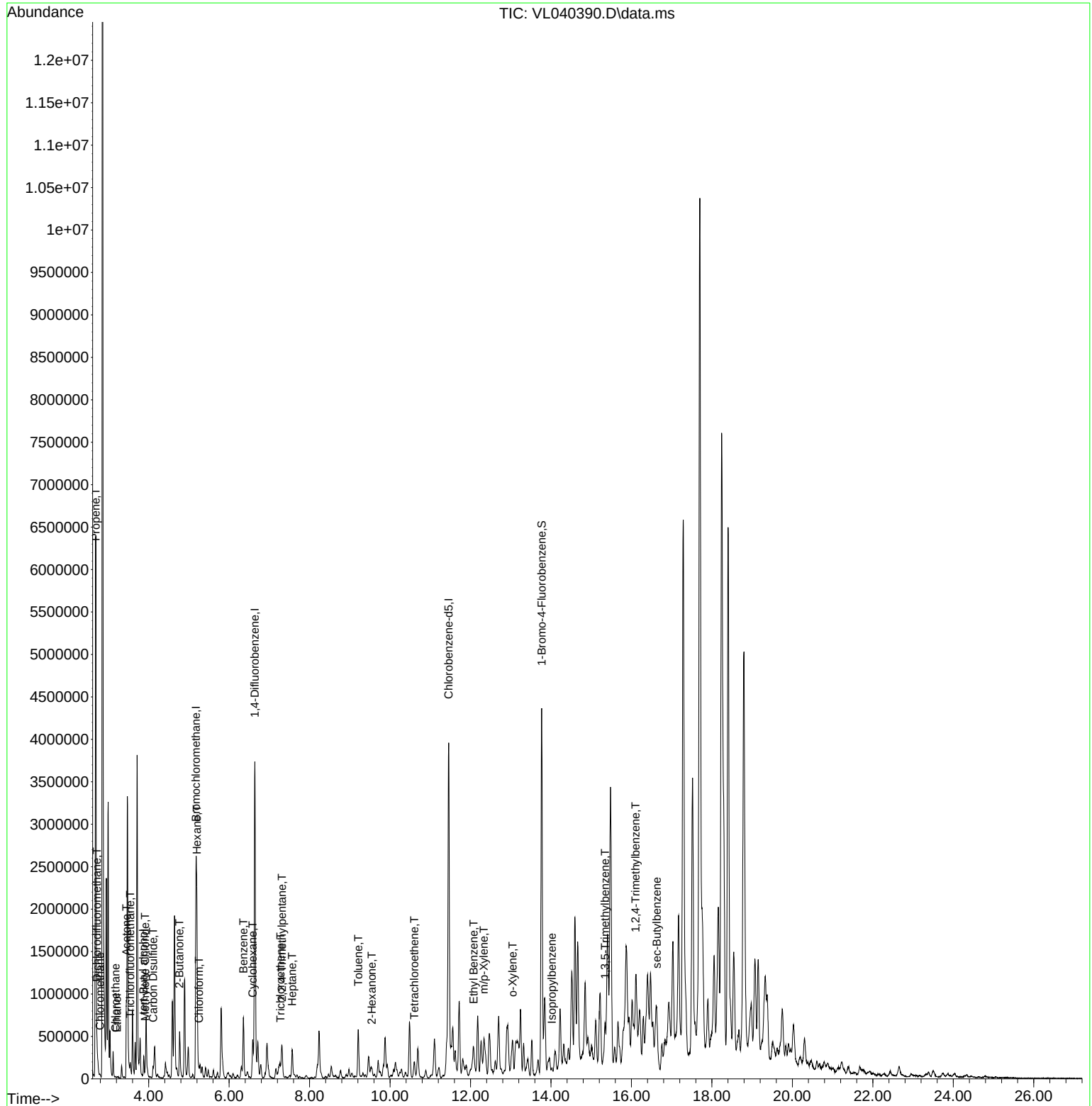
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
Data File : VL040390.D
Acq On : 19 Apr 2023 21:45
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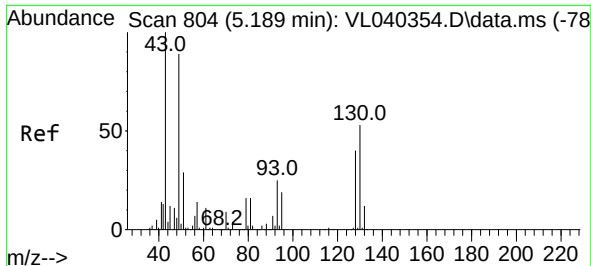
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417

Quant Time: Apr 20 07:48:46 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Apr 13 14:37:02 2023
Response via : Initial Calibration

Manual Integrations
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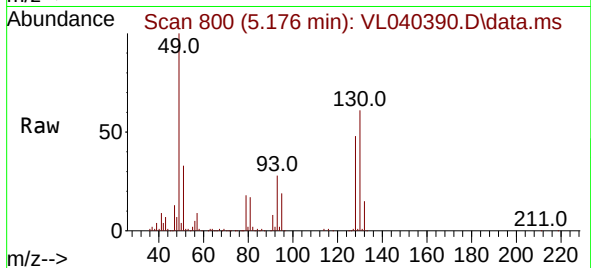
Reviewed By : Semsettin Yesilyurt 04/20/2023
Supervised By : Mahesh Dadoda 04/22/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.013 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

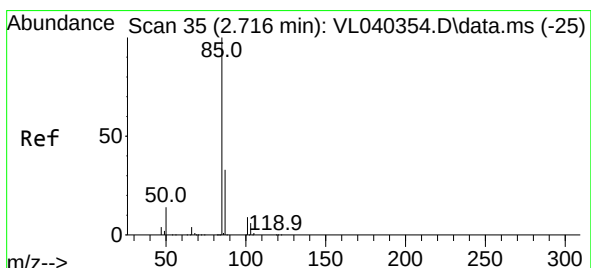
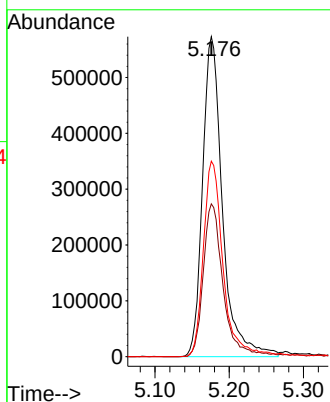
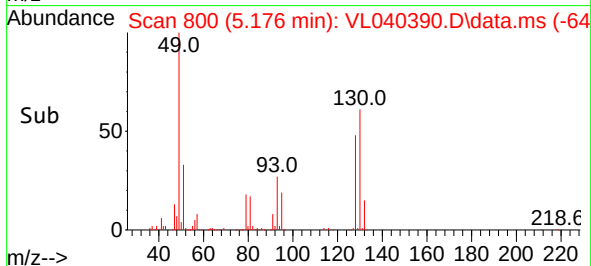
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417



Tgt Ion: 49 Resp: 1066389
Ion Ratio Lower Upper
49 100
128 48.6 23.7 71.1
130 61.2 29.9 89.8

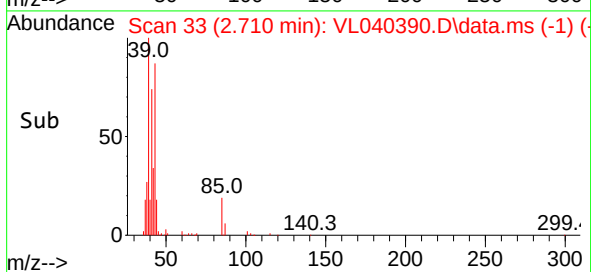
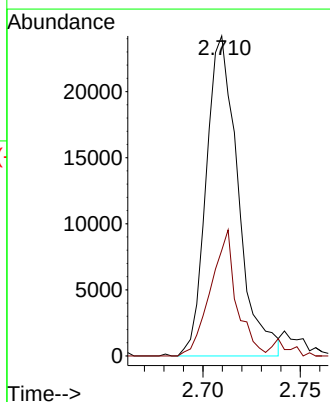
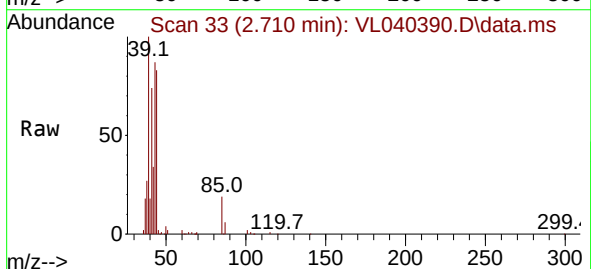
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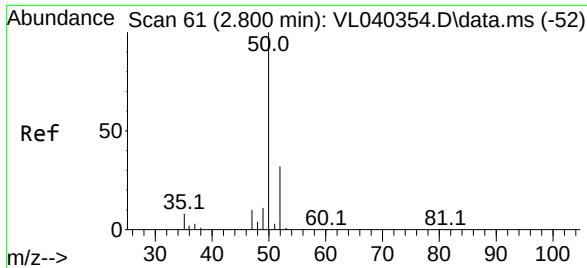
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#2
Dichlorodifluoromethane
Concen: 0.143 ppbv
RT: 2.710 min Scan# 33
Delta R.T. -0.006 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

Tgt Ion: 85 Resp: 27502
Ion Ratio Lower Upper
85 100
87 32.2 26.6 40.0





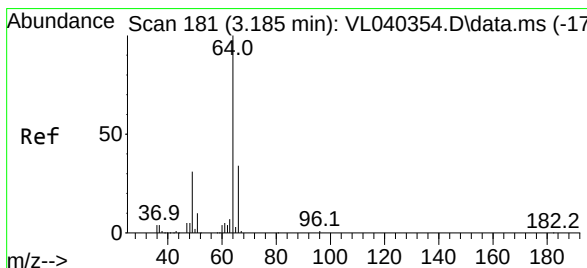
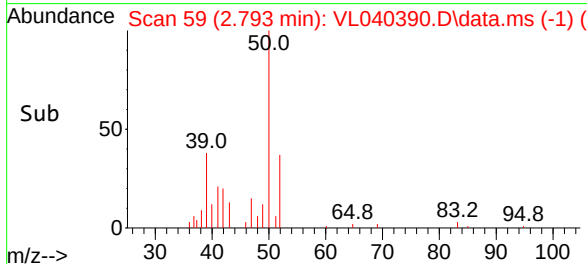
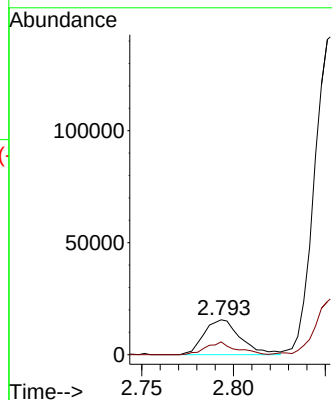
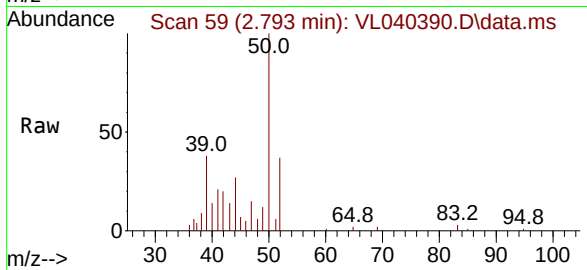
#4
Chloromethane
Concen: 0.247 ppbv
RT: 2.793 min Scan# 50
Delta R.T. -0.007 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417

Tgt Ion: 50 Resp: 2172
Ion Ratio Lower Upper
50 100
52 36.9 25.3 37.9

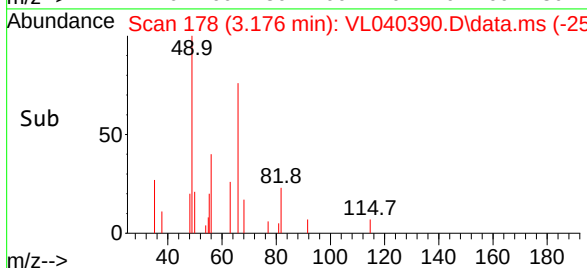
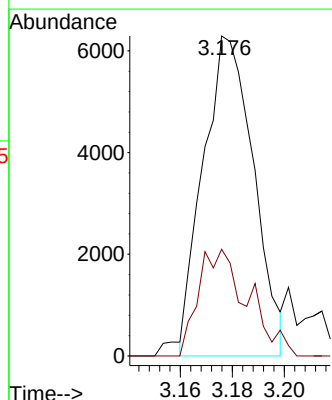
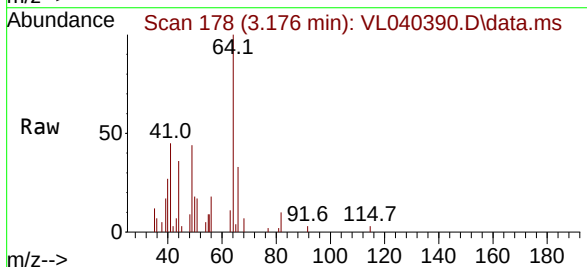
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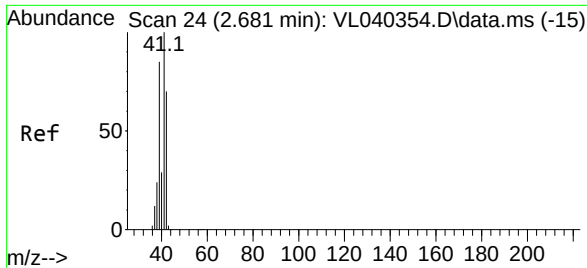
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#7
Chloroethane
Concen: 0.308 ppbv
RT: 3.176 min Scan# 178
Delta R.T. -0.009 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

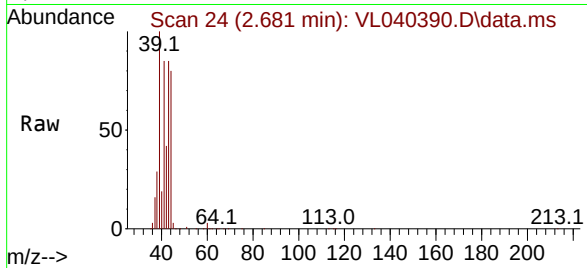
Tgt Ion: 64 Resp: 8471
Ion Ratio Lower Upper
64 100
66 33.3 27.5 41.3





#9
 Propene
 Concen: 34.108 ppbv m
 RT: 2.681 min Scan# 24
 Delta R.T. -0.000 min
 Lab File: VL040390.D
 Acq: 19 Apr 2023 21:45

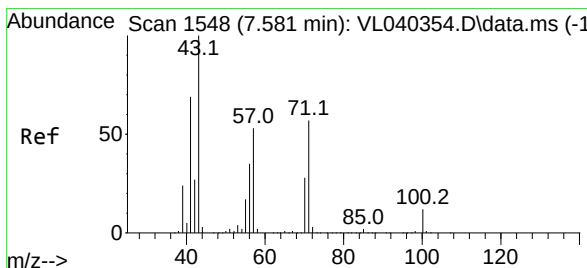
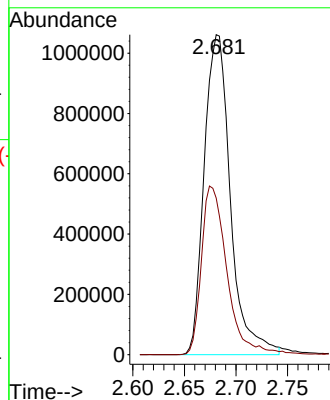
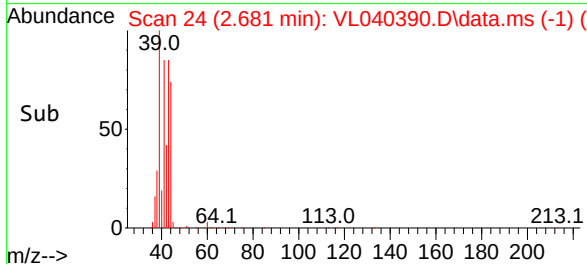
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02-20230417



Tgt Ion: 41 Resp: 187767
 Ion Ratio Lower Upper
 41 100
 42 251.5 56.5 84.7

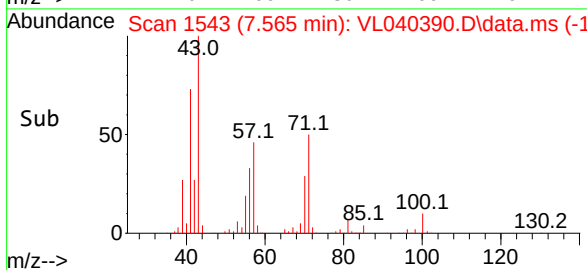
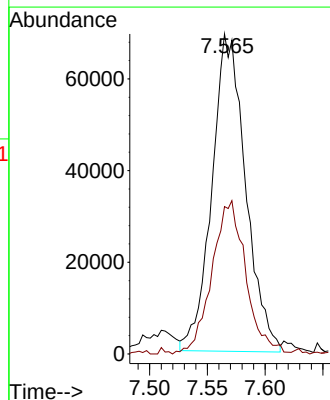
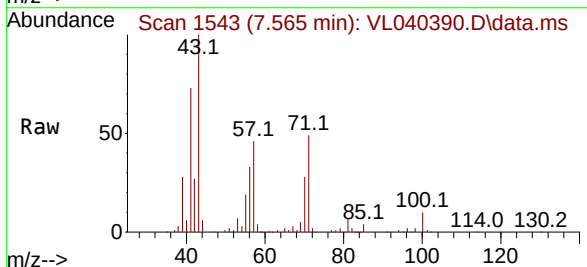
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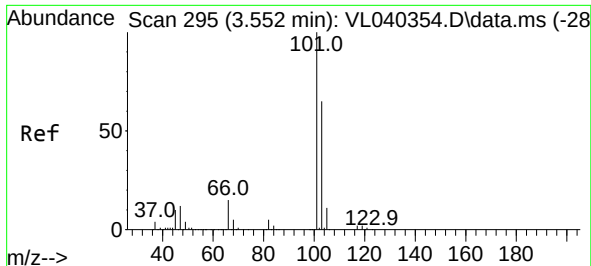
Reviewed By :Semsettin Yesilyurt 04/20/2023
 Supervised By :Mahesh Dadoda 04/22/2023



#10
 Heptane
 Concen: 1.123 ppbv
 RT: 7.565 min Scan# 1543
 Delta R.T. -0.016 min
 Lab File: VL040390.D
 Acq: 19 Apr 2023 21:45

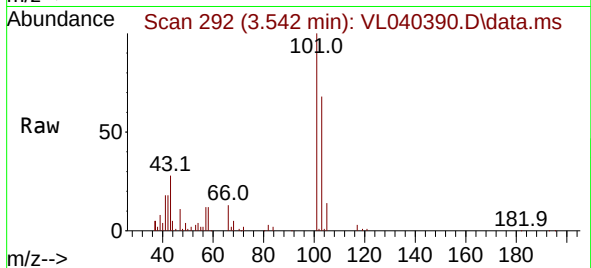
Tgt Ion: 43 Resp: 140508
 Ion Ratio Lower Upper
 43 100
 57 49.5 42.2 63.4





#11
 Trichlorofluoromethane
 Concen: 0.385 ppbv
 RT: 3.542 min Scan# 295
 Delta R.T. -0.010 min
 Lab File: VL040390.D
 Acq: 19 Apr 2023 21:45

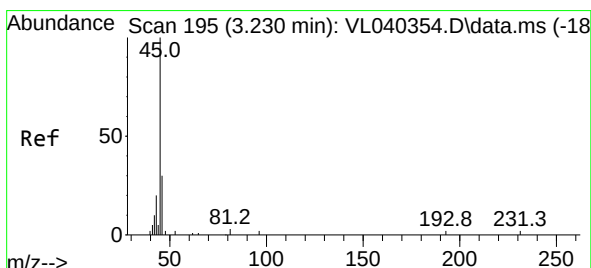
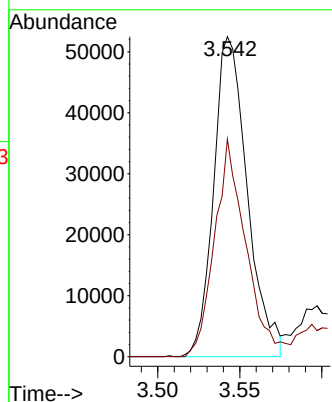
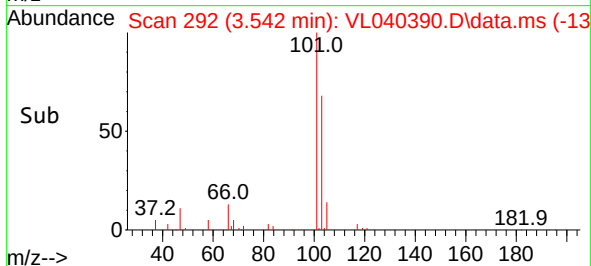
Instrument : MSVOA_L
 ClientSampleId : SV-02-20230417



Tgt Ion:101 Resp: 74849
 Ion Ratio Lower Upper
 101 100
 103 68.0 52.2 78.4

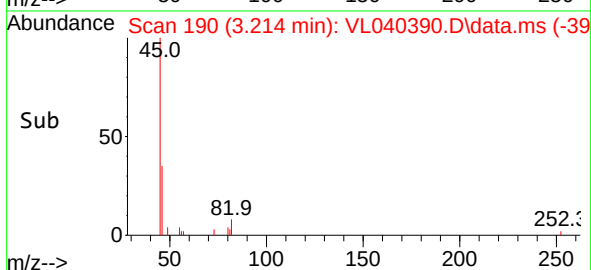
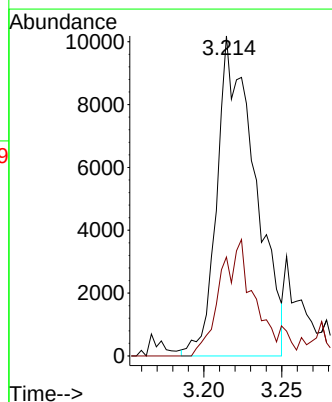
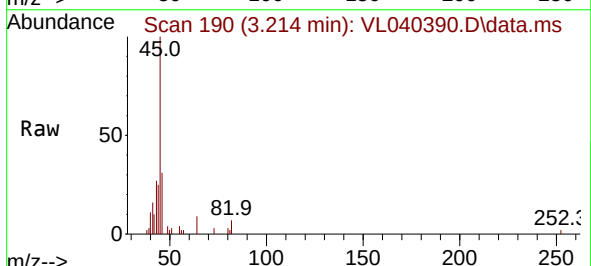
Manual Integrations
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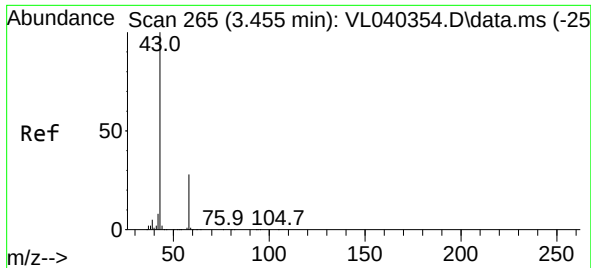
Reviewed By :Semsettin Yesilyurt 04/20/2023
 Supervised By :Mahesh Dadoda 04/22/2023



#13
 Ethanol
 Concen: 3.746 ppbv m
 RT: 3.214 min Scan# 190
 Delta R.T. -0.016 min
 Lab File: VL040390.D
 Acq: 19 Apr 2023 21:45

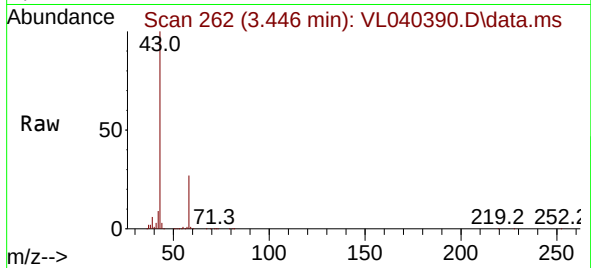
Tgt Ion: 45 Resp: 17216
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.3 61.3#





#15
Acetone
Concen: 4.992 ppbv
RT: 3.446 min Scan# 20
Delta R.T. -0.009 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

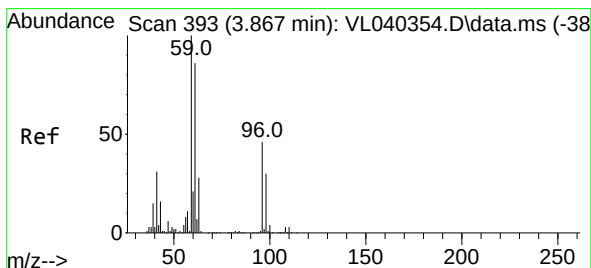
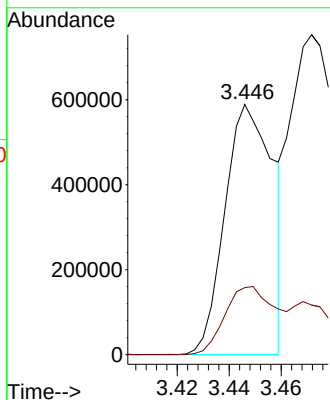
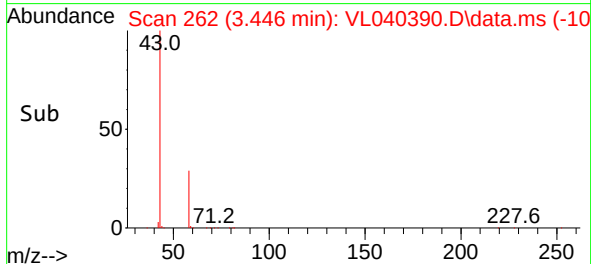
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417



Tgt Ion: 43 Resp: 753978
Ion Ratio Lower Upper
43 100
58 55.3 22.2 33.2

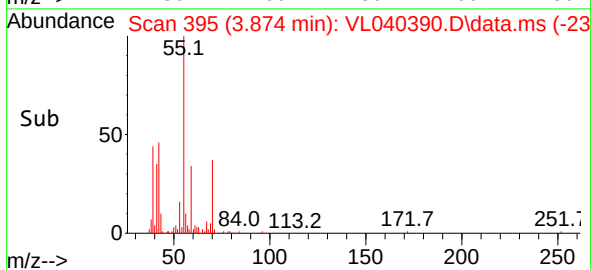
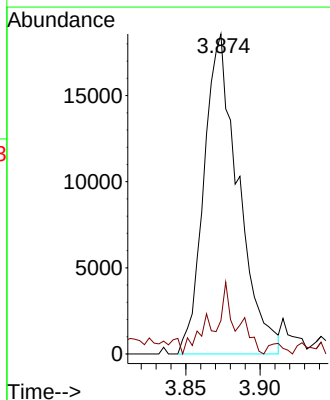
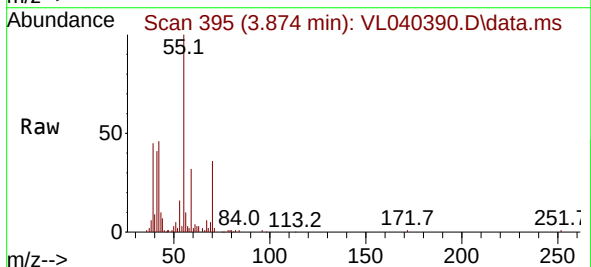
Manual Integrations
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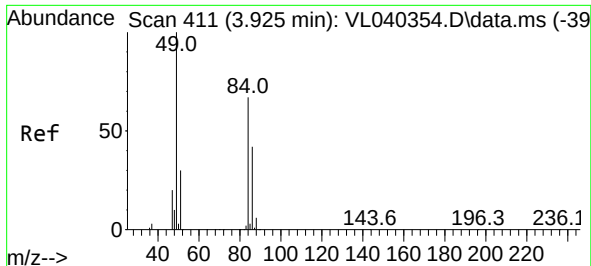
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#17
tert-Butyl alcohol
Concen: 0.215 ppbv
RT: 3.874 min Scan# 395
Delta R.T. 0.007 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

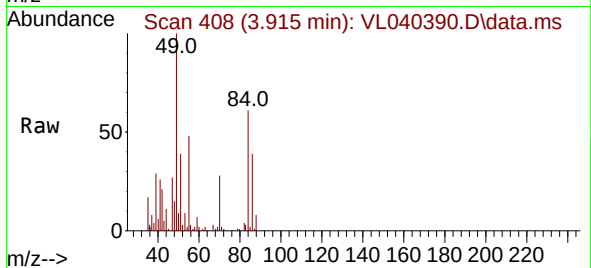
Tgt Ion: 59 Resp: 29802
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7





#20
Methylene Chloride
Concen: 0.427 ppbv
RT: 3.915 min Scan# 408
Delta R.T. -0.010 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

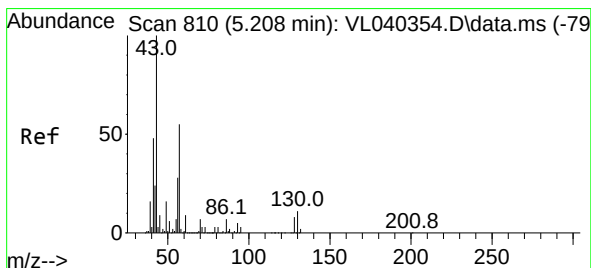
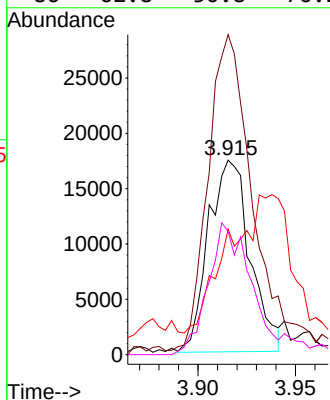
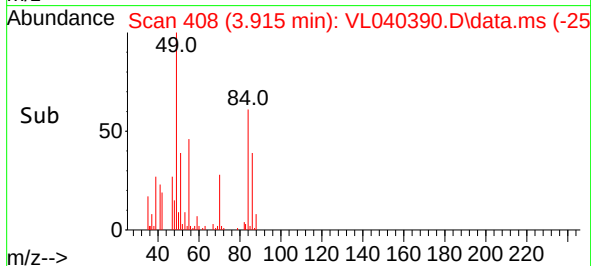
Instrument :
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Tgt Ion: 84 Resp: 2573
Ion Ratio Lower Upper
84 100
49 163.2 120.1 180.1
51 53.8 36.3 54.5
86 62.8 50.8 76.2

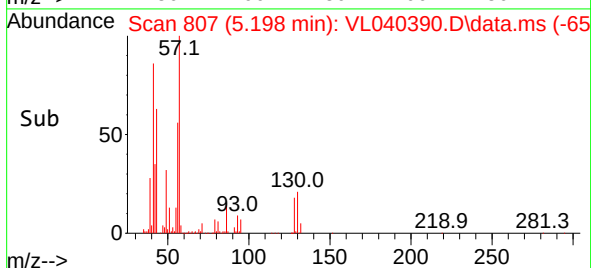
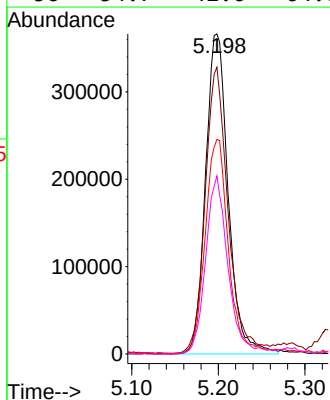
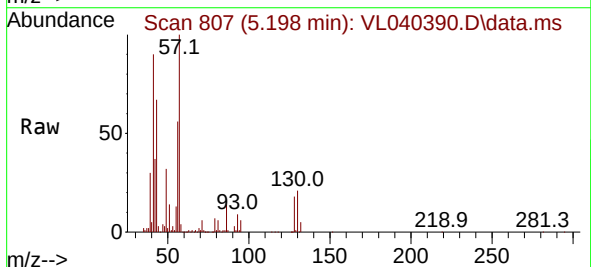
Manual Integrations
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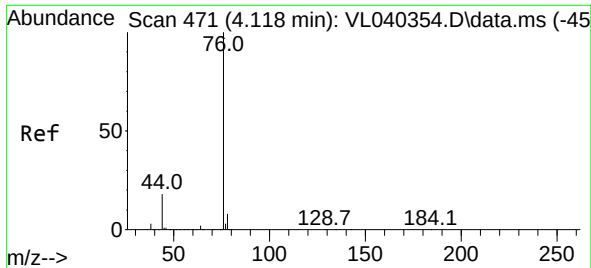
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#26
Hexane
Concen: 6.227 ppbv
RT: 5.198 min Scan# 807
Delta R.T. -0.010 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

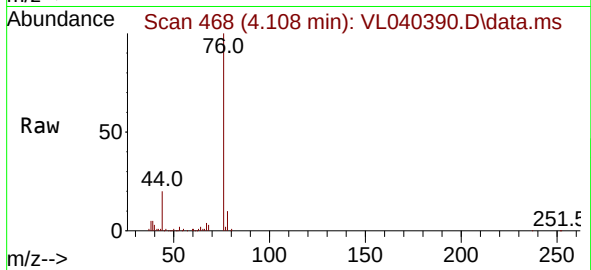
Tgt Ion: 57 Resp: 667237
Ion Ratio Lower Upper
57 100
41 91.2 74.8 112.2
43 70.2 192.7 289.1#
56 54.7 42.6 64.0





#27
Carbon Disulfide
Concen: 0.922 ppbv
RT: 4.108 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

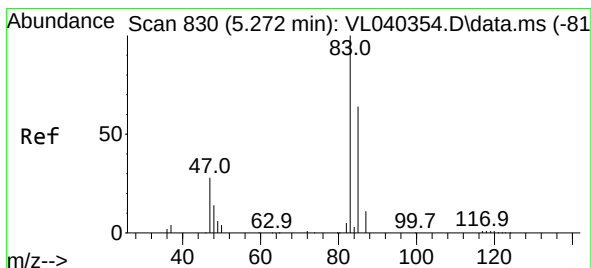
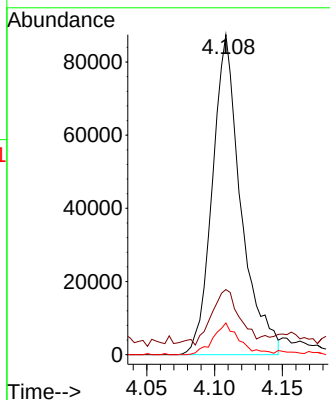
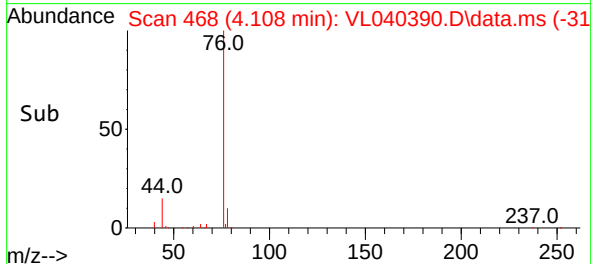
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417



Tgt Ion: 76 Resp: 12785
Ion Ratio Lower Upper
76 100
44 19.8 14.7 22.1
78 10.4 7.7 11.5

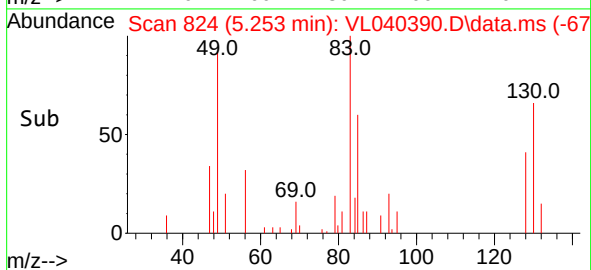
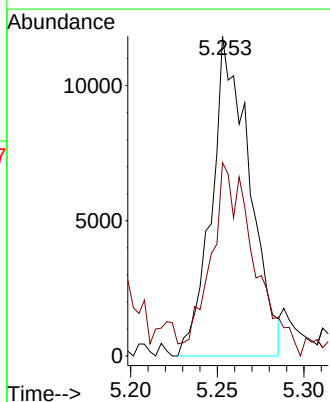
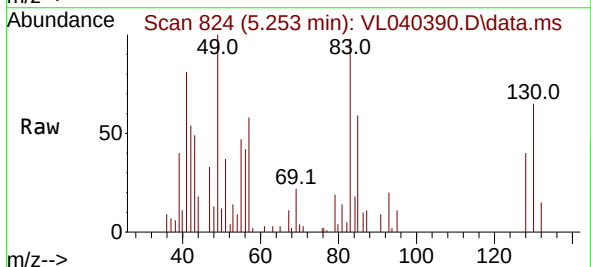
Manual Integrations
APPROVED

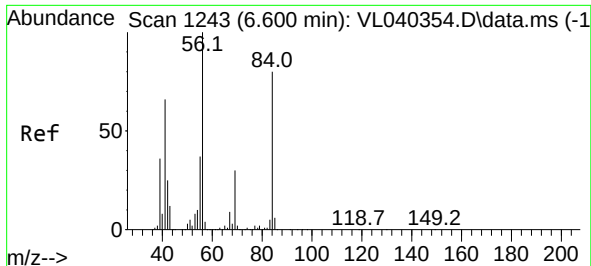
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#29
Chloroform
Concen: 0.094 ppbv
RT: 5.253 min Scan# 824
Delta R.T. -0.019 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

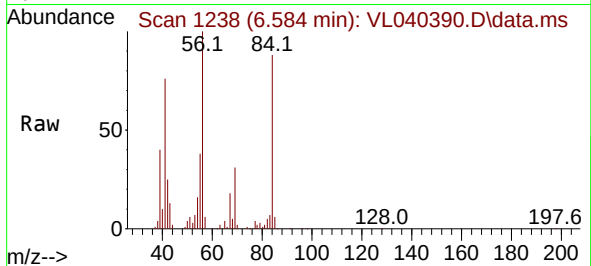
Tgt Ion: 83 Resp: 17988
Ion Ratio Lower Upper
83 100
85 56.7 51.0 76.4





#30
Cyclohexane
Concen: 1.751 ppbv m
RT: 6.584 min Scan# 1238
Delta R.T. -0.016 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

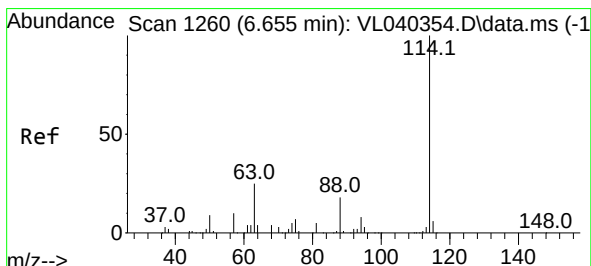
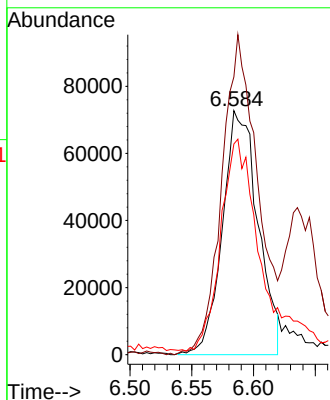
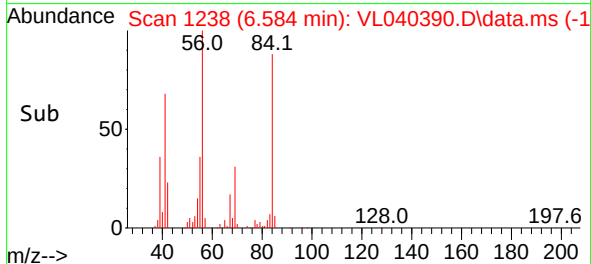
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417



Tgt Ion: 84 Resp: 14532
Ion Ratio Lower Upper
84 100
56 129.0 107.0 160.6
41 98.2 66.7 100.1

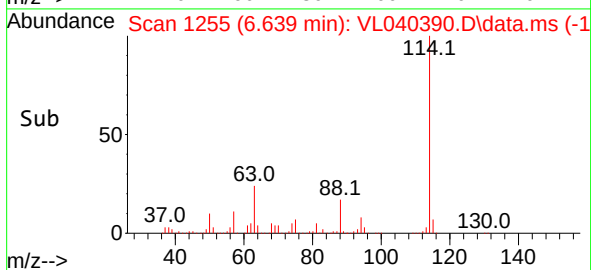
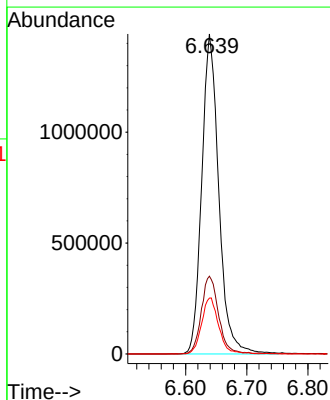
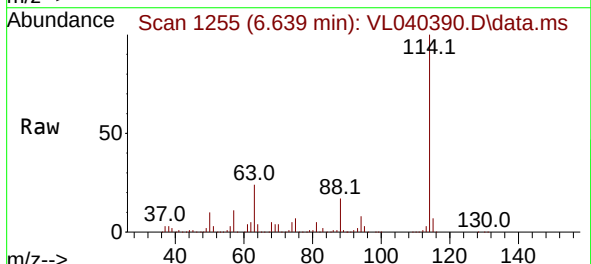
Manual Integrations
APPROVED

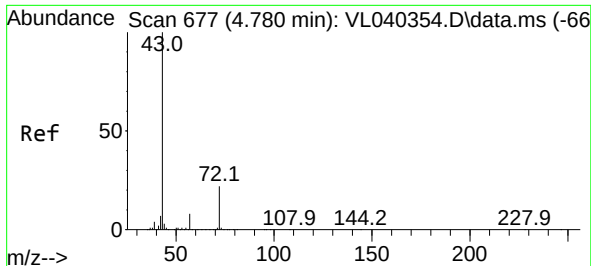
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.016 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

Tgt Ion:114 Resp: 2791780
Ion Ratio Lower Upper
114 100
63 24.9 21.4 32.0
88 17.6 14.6 22.0





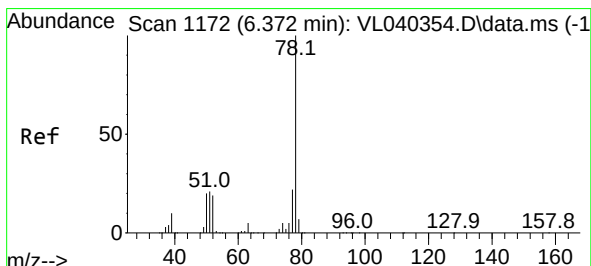
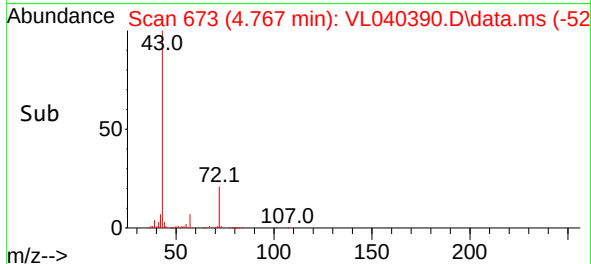
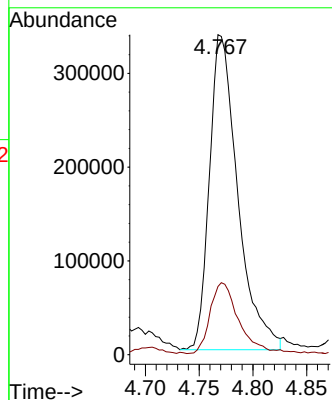
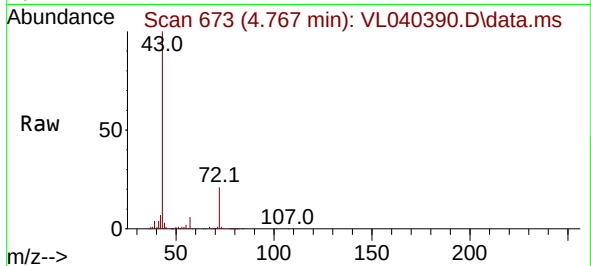
#34
2-Butanone
Concen: 4.095 ppbv
RT: 4.767 min Scan# 616519
Delta R.T. -0.013 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

Instrument : MSVOA_L
ClientSampleId : SV-02-20230417

Tgt Ion: 43 Resp: 616519
Ion Ratio Lower Upper
43 100
72 24.6 18.4 27.6

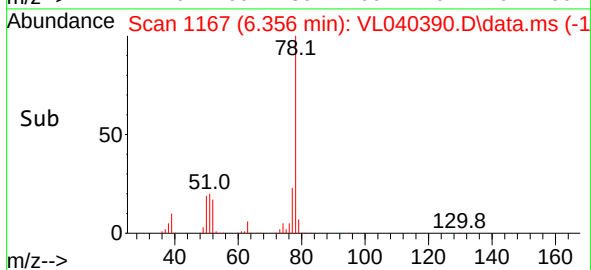
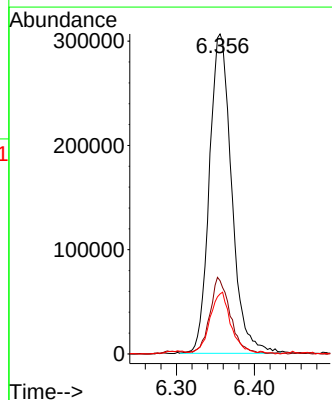
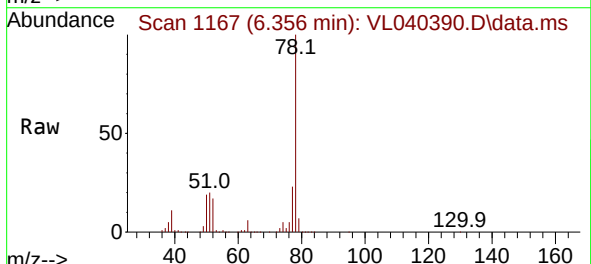
Manual Integrations
APPROVED

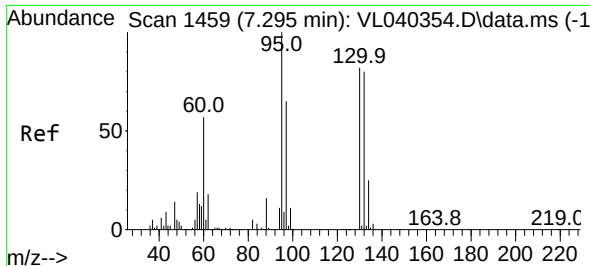
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#36
Benzene
Concen: 2.671 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.016 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

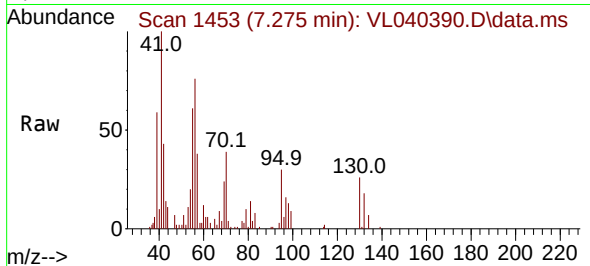
Tgt Ion: 78 Resp: 608309
Ion Ratio Lower Upper
78 100
77 22.7 17.8 26.8
50 18.8 15.6 23.4





#38
Trichloroethene
Concen: 0.073 ppbv m
RT: 7.275 min Scan# 1459
Delta R.T. -0.020 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

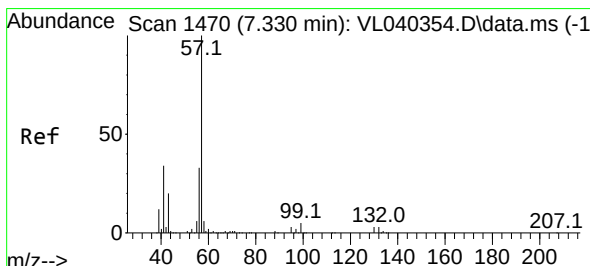
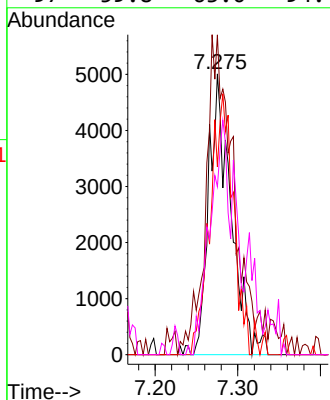
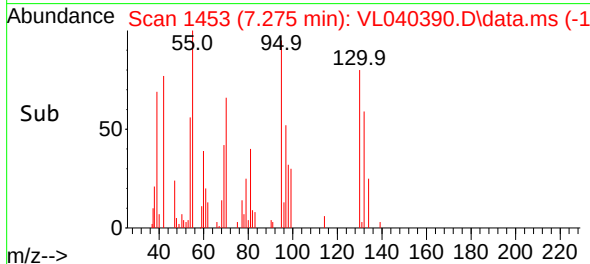
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417



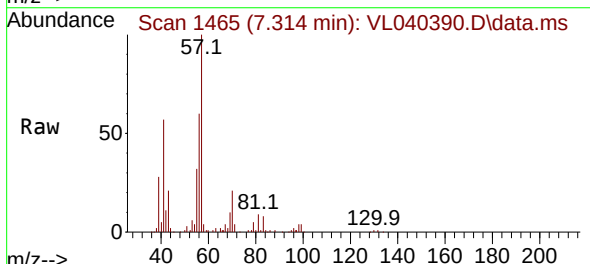
Tgt Ion:130 Resp: 9412
Ion Ratio Lower Upper
130 100
95 113.9 97.4 146.0
132 66.8 77.5 116.3
97 59.8 63.0 94.4#

Manual Integrations
APPROVED

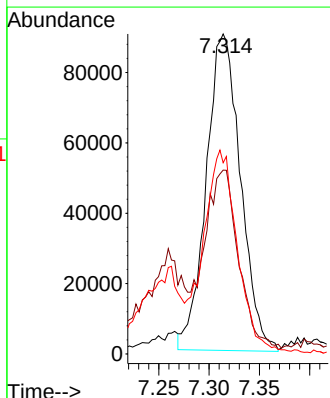
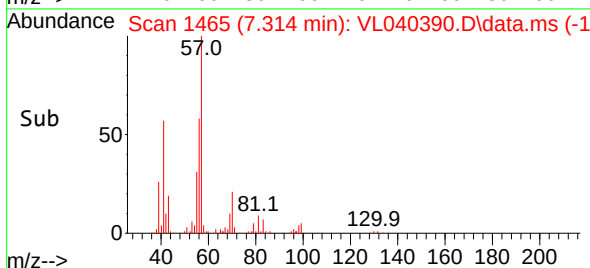
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

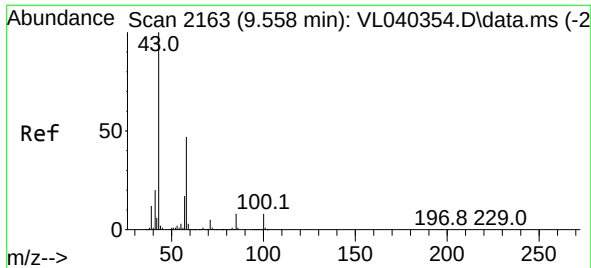


#44
2,2,4-Trimethylpentane
Concen: 0.561 ppbv
RT: 7.314 min Scan# 1465
Delta R.T. -0.016 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45



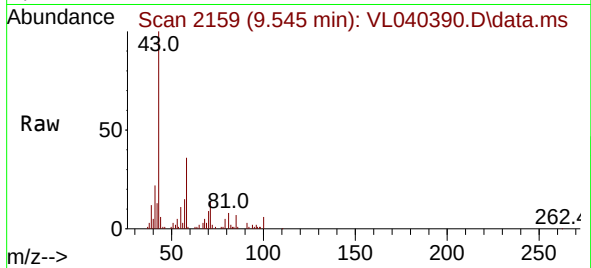
Tgt Ion: 57 Resp: 213490
Ion Ratio Lower Upper
57 100
41 60.7 26.9 40.3#
56 64.4 25.1 37.7#





#51
2-Hexanone
Concen: 0.700 ppbv m
RT: 9.545 min Scan# 2163
Delta R.T. -0.013 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

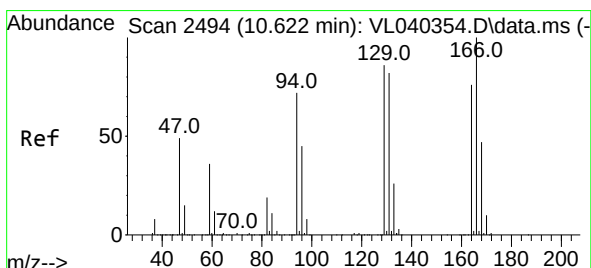
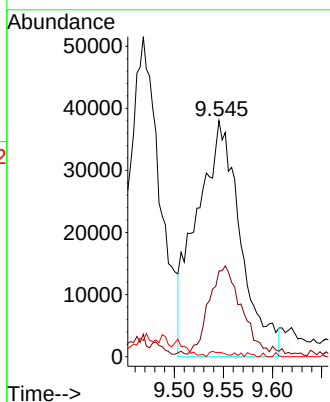
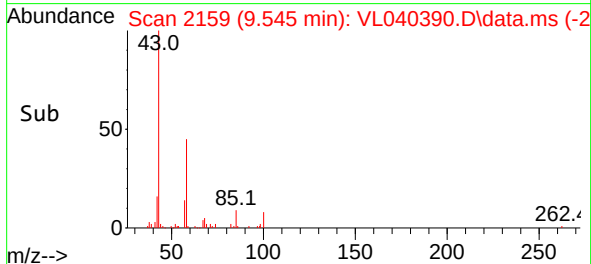
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417



Tgt Ion: 43 Resp: 11813
Ion Ratio Lower Upper
43 100
58 0.0 38.3 57.5
98 0.0 0.4 0.6

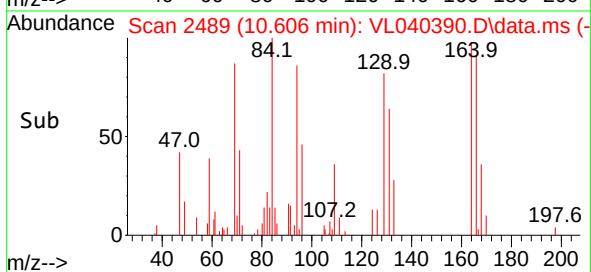
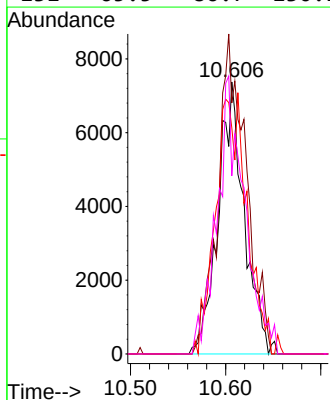
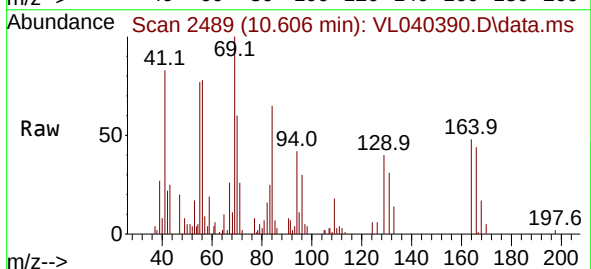
Manual Integrations
APPROVED

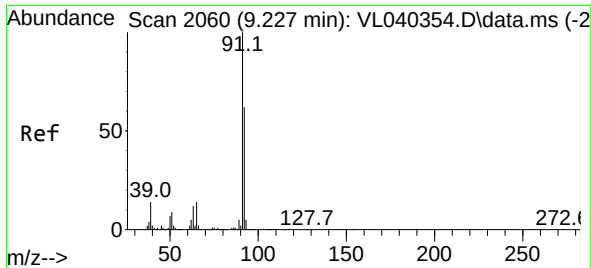
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#52
Tetrachloroethene
Concen: 0.199 ppbv m
RT: 10.606 min Scan# 2489
Delta R.T. -0.016 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

Tgt Ion:164 Resp: 14159
Ion Ratio Lower Upper
164 100
166 92.3 105.2 157.8#
129 83.2 90.3 135.5#
131 65.5 86.7 130.1#





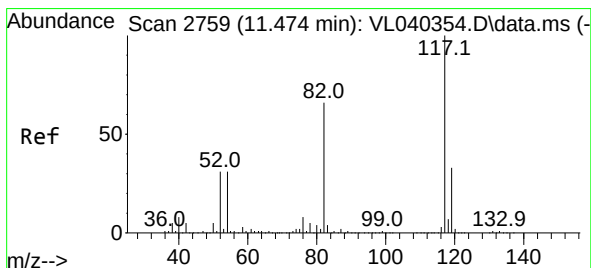
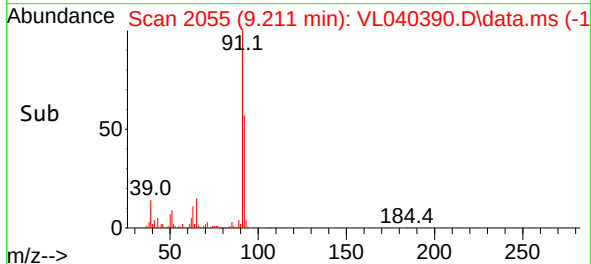
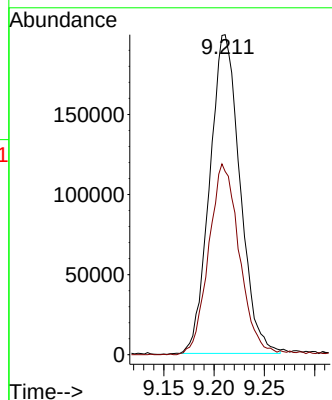
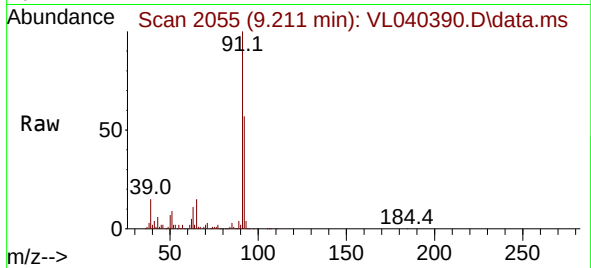
#53
Toluene
Concen: 1.726 ppbv
RT: 9.211 min Scan# 2060
Delta R.T. -0.016 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417

Tgt Ion: 91 Resp: 416679
Ion Ratio Lower Upper
91 100
92 61.9 48.9 73.3

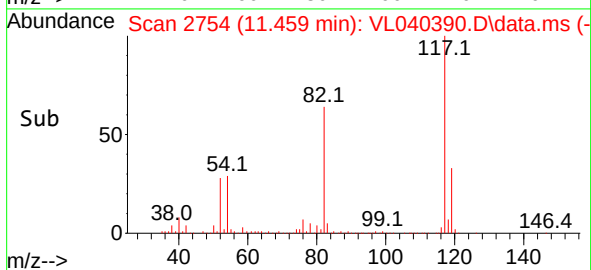
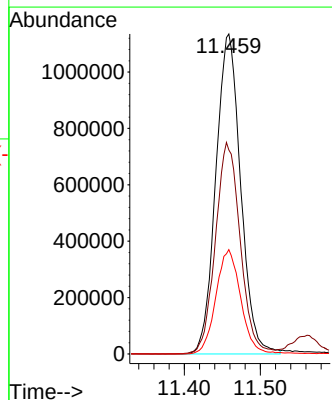
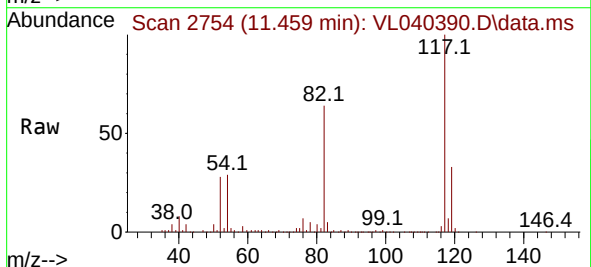
Manual Integrations
APPROVED

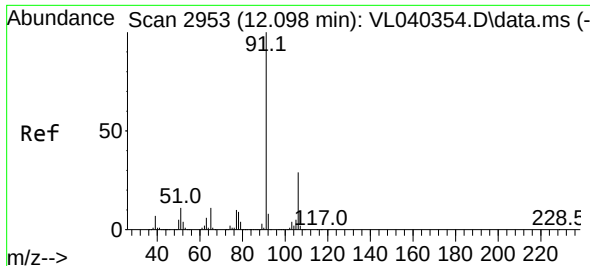
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.459 min Scan# 2754
Delta R.T. -0.015 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

Tgt Ion:117 Resp: 2574910
Ion Ratio Lower Upper
117 100
82 65.9 52.5 78.7
119 33.1 24.3 36.5





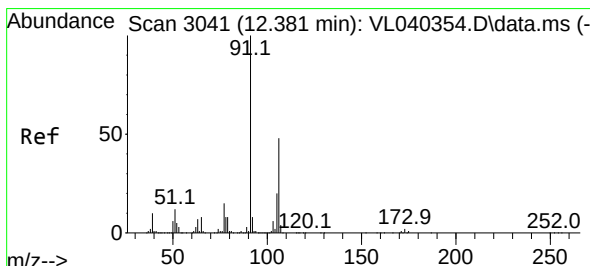
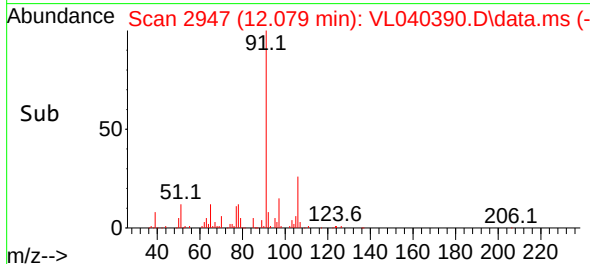
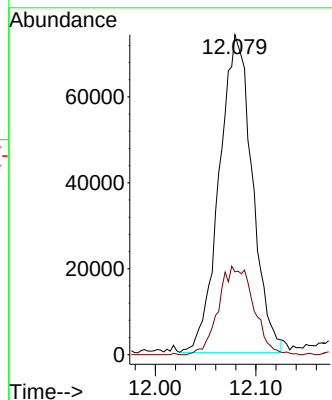
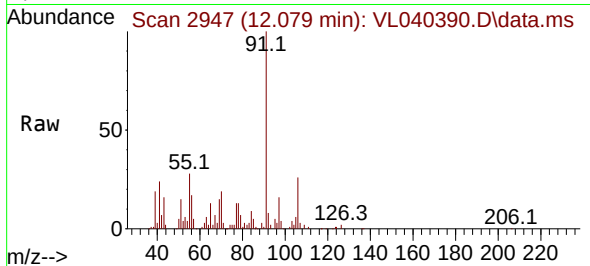
#58
Ethyl Benzene
Concen: 0.532 ppbv
RT: 12.079 min Scan# 2953
Delta R.T. -0.019 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417

Tgt Ion: 91 Resp: 16838
Ion Ratio Lower Upper
91 100
106 26.1 23.5 35.3

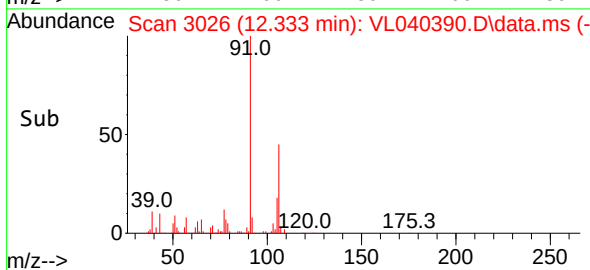
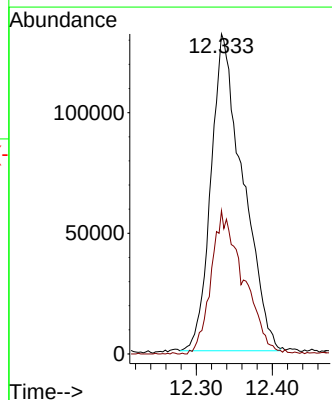
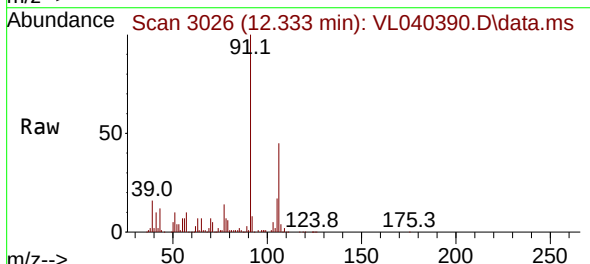
Manual Integrations
APPROVED

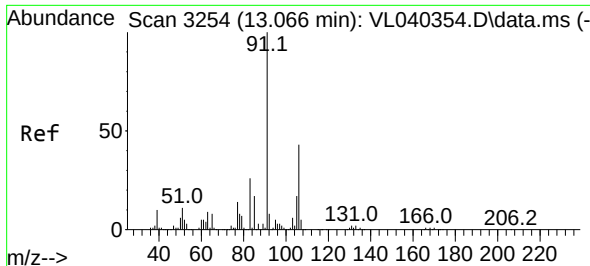
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#59
m/p-Xylene
Concen: 1.317 ppbv
RT: 12.333 min Scan# 3026
Delta R.T. -0.048 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

Tgt Ion: 91 Resp: 383572
Ion Ratio Lower Upper
91 100
106 45.9 34.7 52.1





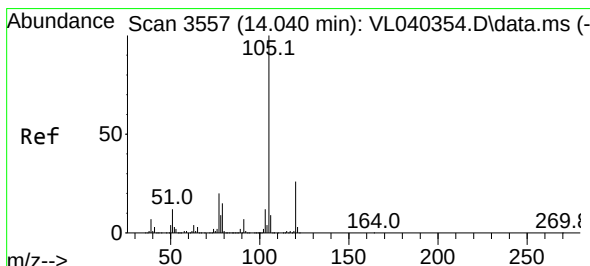
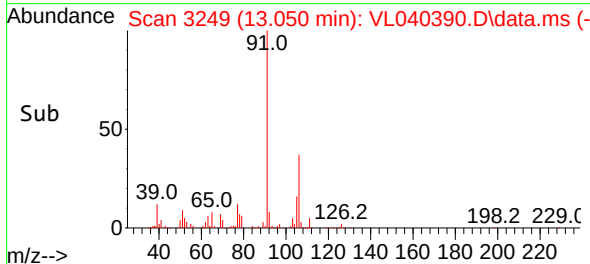
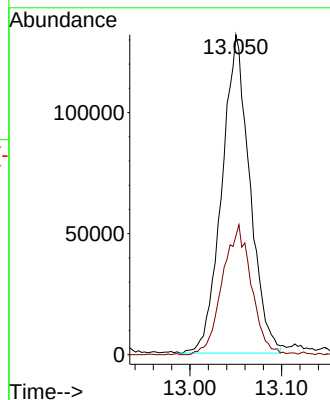
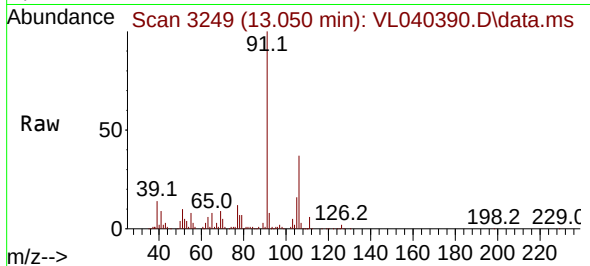
#60
o-Xylene
Concen: 0.998 ppbv
RT: 13.050 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417

Tgt Ion: 91 Resp: 279009
Ion Ratio Lower Upper
91 100
106 42.6 21.9 65.8

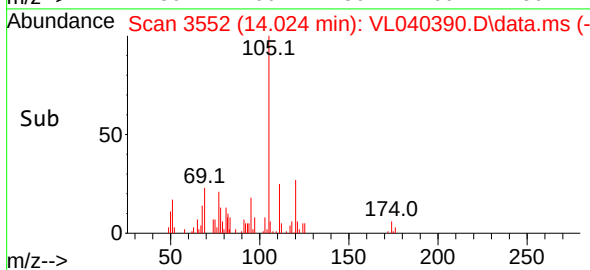
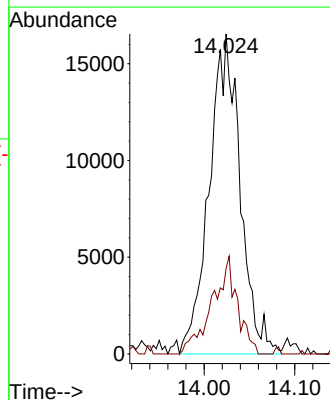
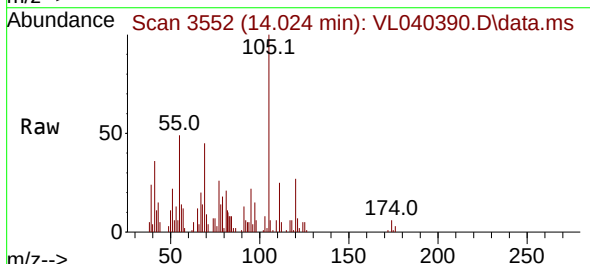
Manual Integrations
APPROVED

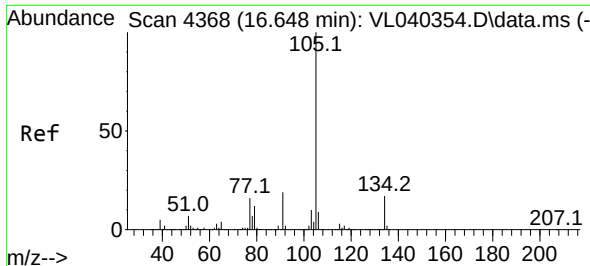
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#62
Isopropylbenzene
Concen: 0.097 ppbv m
RT: 14.024 min Scan# 3552
Delta R.T. -0.016 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

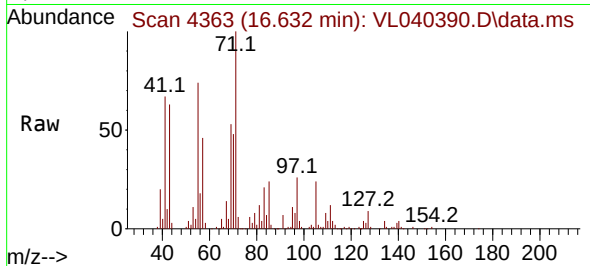
Tgt Ion:105 Resp: 39175
Ion Ratio Lower Upper
105 100
120 0.0 19.9 29.9#





#67
 sec-Butylbenzene
 Concen: 0.103 ppbv m
 RT: 16.632 min Scan# 41
 Delta R.T. -0.016 min
 Lab File: VL040390.D
 Acq: 19 Apr 2023 21:45

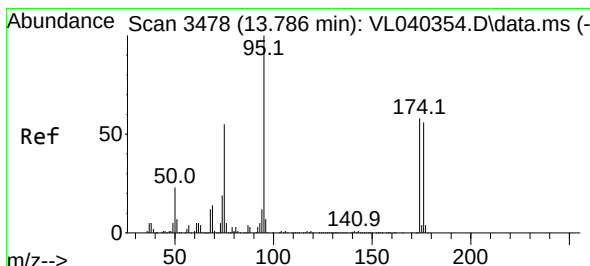
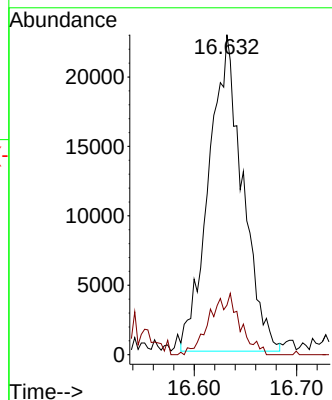
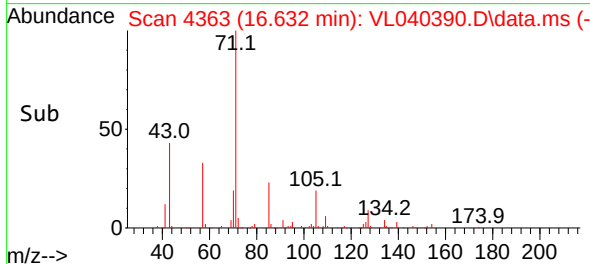
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02-20230417



Tgt Ion: 105 Resp: 52210
 Ion Ratio Lower Upper
 105 100
 134 17.3 13.8 20.6

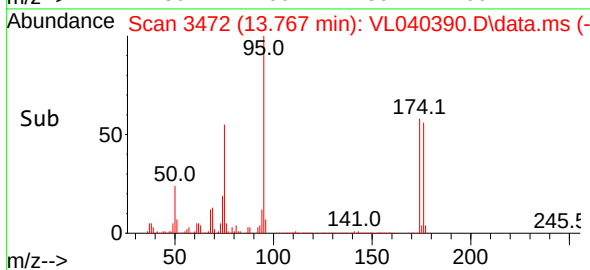
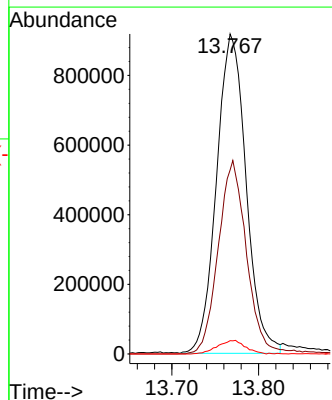
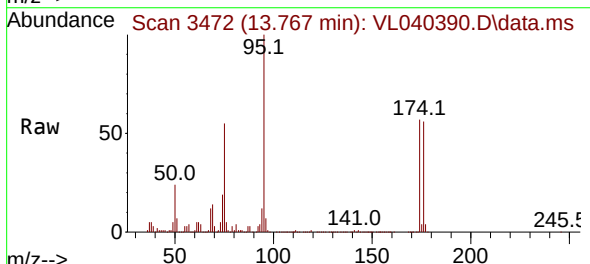
Manual Integrations
 APPROVED

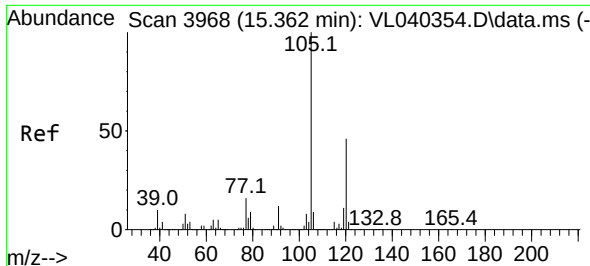
Reviewed By :Semsettin Yesilyurt 04/20/2023
 Supervised By :Mahesh Dadoda 04/22/2023



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.210 ppbv
 RT: 13.767 min Scan# 3472
 Delta R.T. -0.019 min
 Lab File: VL040390.D
 Acq: 19 Apr 2023 21:45

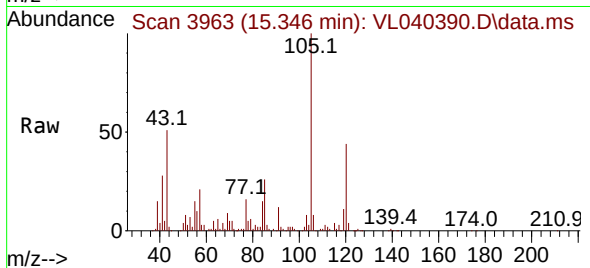
Tgt Ion: 95 Resp: 2174056
 Ion Ratio Lower Upper
 95 100
 174 59.0 47.2 70.8
 175 4.1 3.5 5.3





#73
1,3,5-Trimethylbenzene
Concen: 0.963 ppbv
RT: 15.346 min Scan# 3968
Delta R.T. -0.016 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

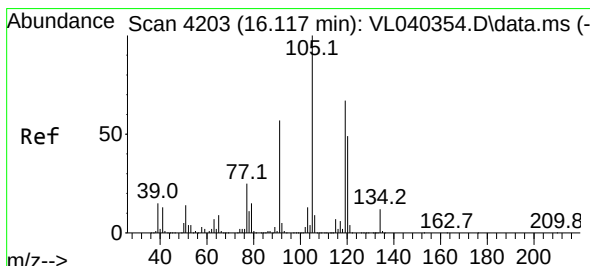
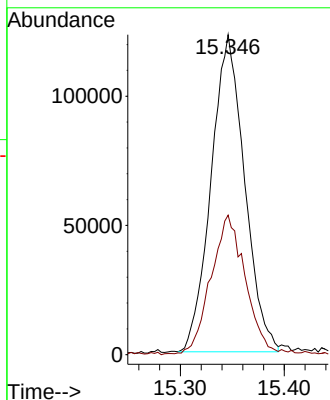
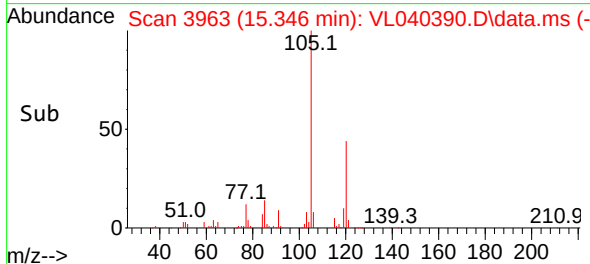
Instrument :
MSVOA_L
ClientSampleId :
SV-02-20230417



Tgt Ion:105 Resp: 27459
Ion Ratio Lower Upper
105 100
120 43.4 36.9 55.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.945 ppbv
RT: 16.105 min Scan# 4199
Delta R.T. -0.012 min
Lab File: VL040390.D
Acq: 19 Apr 2023 21:45

Tgt Ion:105 Resp: 307969
Ion Ratio Lower Upper
105 100
120 40.7 38.9 58.3
91 12.3 46.0 69.0#
77 15.1 20.0 30.0#

