

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011524\
 Data File : VL040974.D
 Acq On : 15 Jan 2024 17:35
 Operator : SY/MD
 Sample : P1138-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/16/2024
 Supervised By :Mahesh Dadoda 01/16/2024

Quant Time: Jan 16 03:39:03 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M

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

QLast Update : Tue Jan 16 03:31:29 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	1385587	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.648	114	3667347	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.449	117	3261869	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	2499968	10.405	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.745	85	30916	0.117	ppbv	98
9) Propene	2.713	41	192021	2.791	ppbv	92
10) Heptane	7.571	43	196828	1.151	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.079	101	15125m	0.094	ppbv	
13) Ethanol	3.256	45	28317m	1.632	ppbv	
15) Acetone	3.481	43	1766778	10.632	ppbv	92
20) Methylene Chloride	3.947	84	217507	3.672	ppbv	93
26) Hexane	5.221	57	415054	3.252	ppbv #	38
29) Chloroform	5.275	83	81554	0.379	ppbv	88
30) Cyclohexane	6.594	84	33931m	0.319	ppbv	
32) 1,1,1-Trichloroethane	6.002	97	403375	1.937	ppbv	99
34) 2-Butanone	4.787	43	3428801	17.674	ppbv	98
36) Benzene	6.369	78	68916	0.240	ppbv	95
38) Trichloroethene	7.285	130	653585	6.070	ppbv	99
51) 2-Hexanone	9.542	43	352691	1.668	ppbv #	86
52) Tetrachloroethene	10.600	164	20225m	0.209	ppbv	
53) Toluene	9.204	91	348672	1.097	ppbv	97
58) Ethyl Benzene	12.072	91	213940	0.511	ppbv	94
59) m/p-Xylene	12.326	91	729719	2.048	ppbv #	100
60) o-Xylene	13.040	91	312711	0.931	ppbv	99
62) Isopropylbenzene	14.008	105	82050m	0.165	ppbv	
64) n-propylbenzene	14.902	120	33630m	0.269	ppbv	
65) tert-Butylbenzene	16.088	119	61550m	0.145	ppbv	
67) sec-Butylbenzene	16.619	105	55723	0.091	ppbv	99
69) p-Isopropyltoluene	16.976	119	54841m	0.115	ppbv	
72) 4-Ethyltoluene	15.169	105	167040	0.453	ppbv #	96
73) 1,3,5-Trimethylbenzene	15.333	105	202733	0.637	ppbv	99
74) 1,2,4-Trimethylbenzene	16.085	105	494877	1.398	ppbv #	70

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

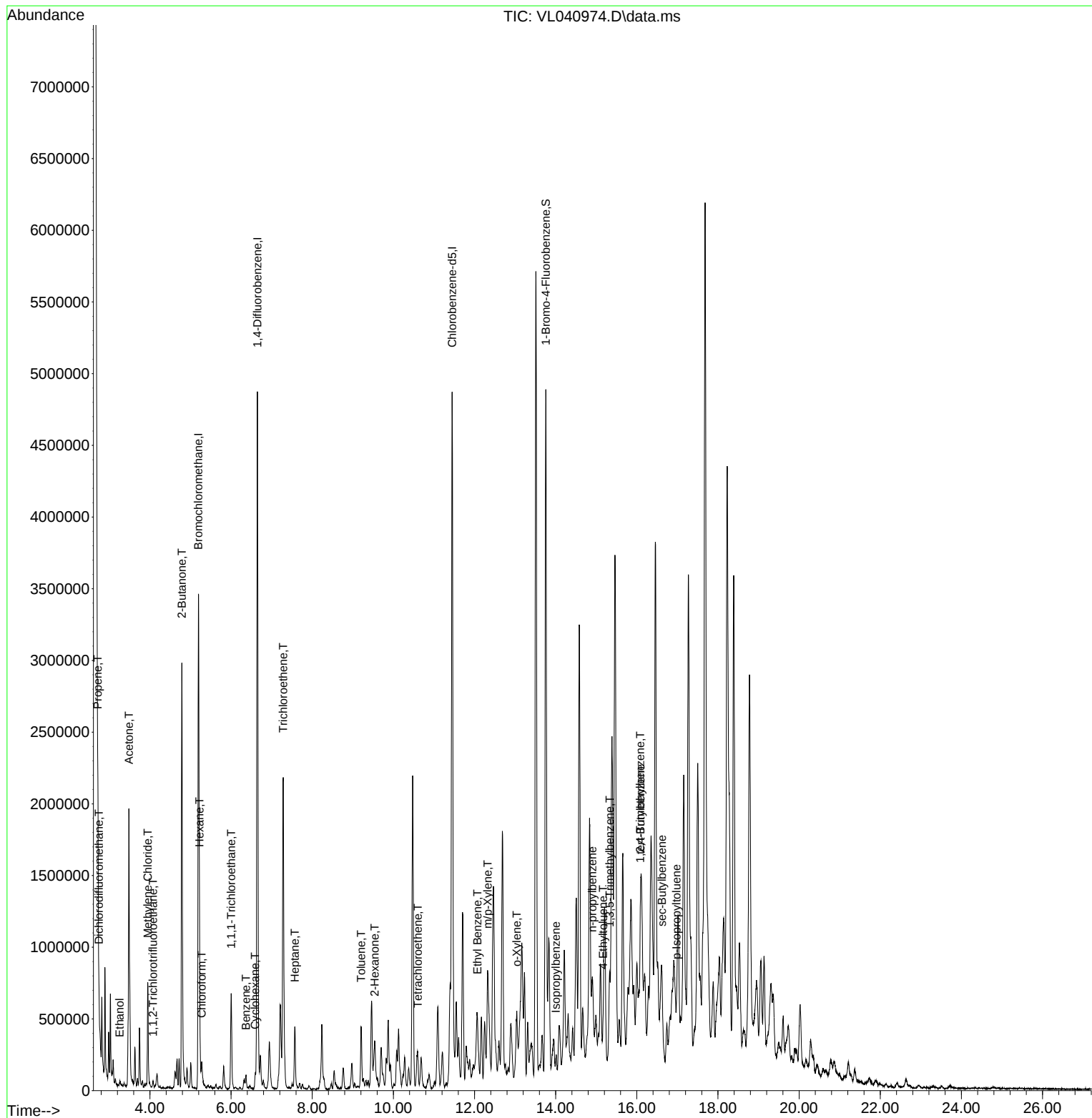
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011524\
Data File : VL040974.D
Acq On : 15 Jan 2024 17:35
Operator : SY/MD
Sample : P1138-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

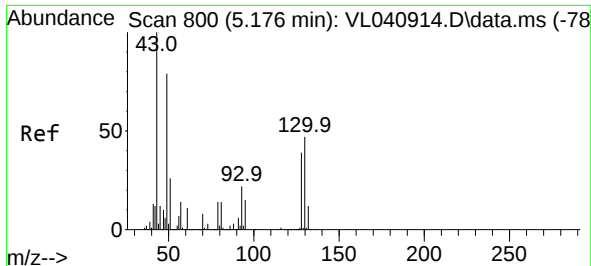
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Jan 16 03:39:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 16 03:31:29 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

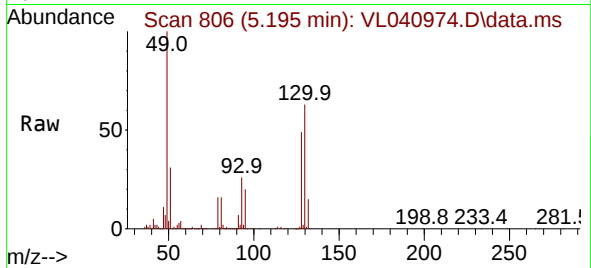
Reviewed By : Semsettin Yesilyurt 01/16/2024
Supervised By : Mahesh Dadoda 01/16/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.019 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

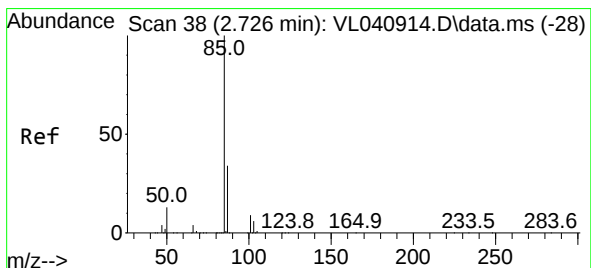
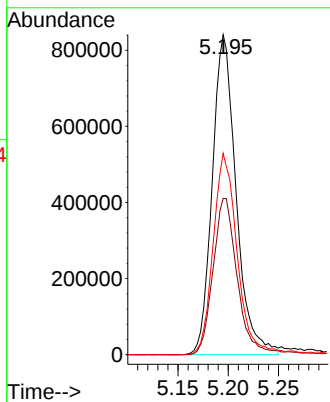
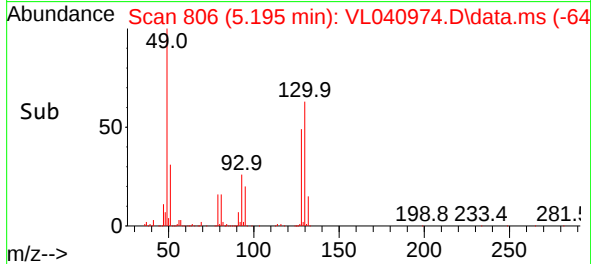
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 138558
Ion Ratio Lower Upper
49 100
128 50.5 23.8 71.2
130 64.6 30.1 90.5

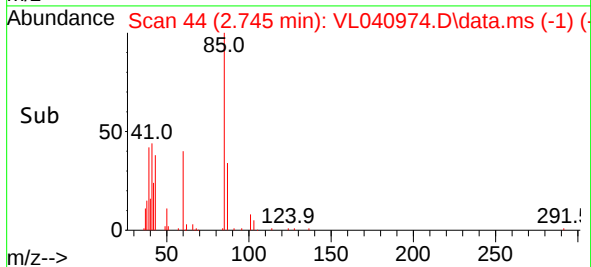
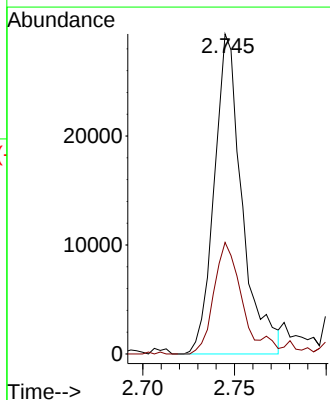
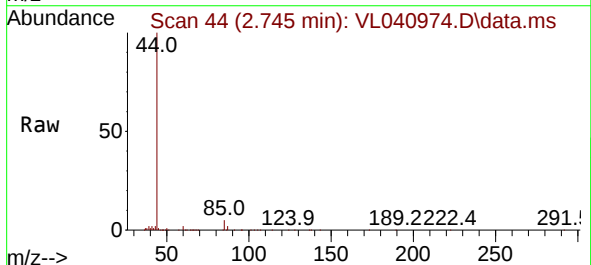
Manual Integrations
APPROVED

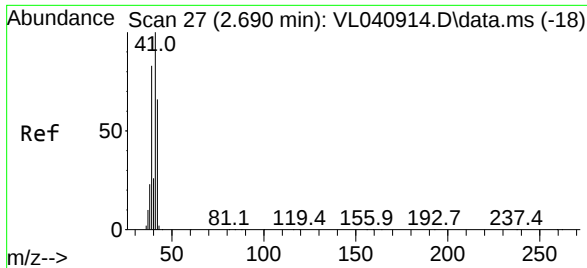
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#2
Dichlorodifluoromethane
Concen: 0.117 ppbv
RT: 2.745 min Scan# 44
Delta R.T. 0.022 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

Tgt Ion: 85 Resp: 30916
Ion Ratio Lower Upper
85 100
87 34.8 27.0 40.6





#9

Propene

Concen: 2.791 ppbv

RT: 2.713 min Scan# 34

Delta R.T. 0.026 min

Lab File: VL040974.D

Acq: 15 Jan 2024 17:35

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 41 Resp: 19202

Ion Ratio Lower Upper

41 100

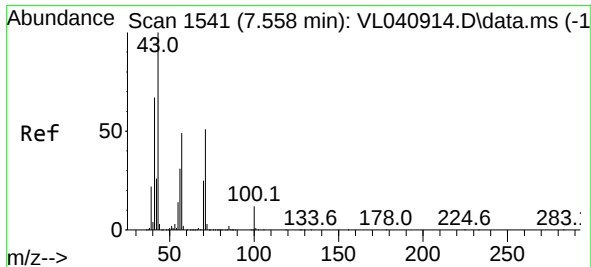
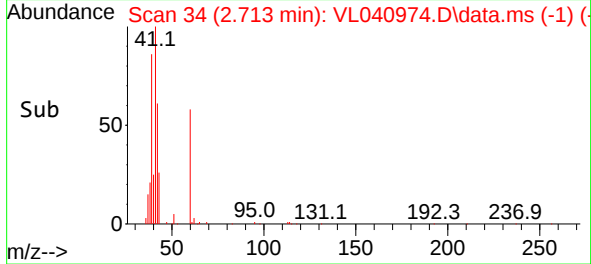
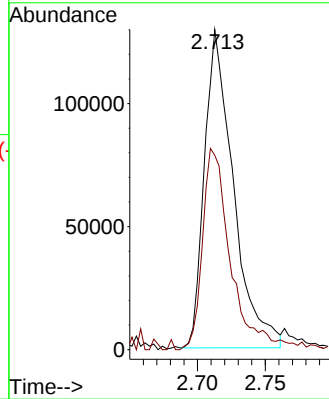
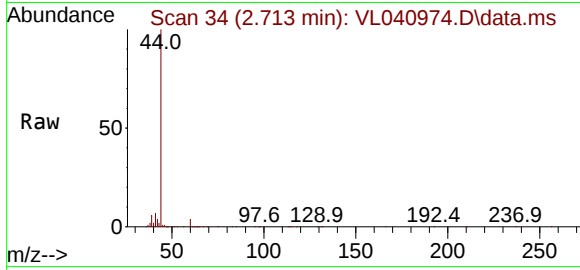
42 63.0 55.8 83.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/16/2024

Supervised By :Mahesh Dadoda 01/16/2024



#10

Heptane

Concen: 1.151 ppbv

RT: 7.571 min Scan# 1545

Delta R.T. 0.013 min

Lab File: VL040974.D

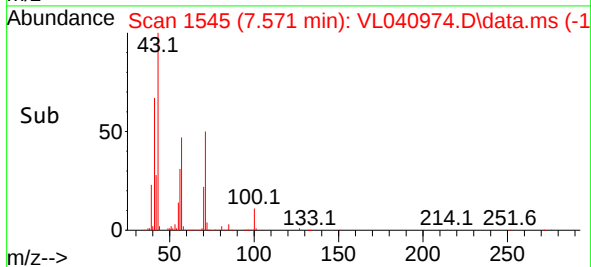
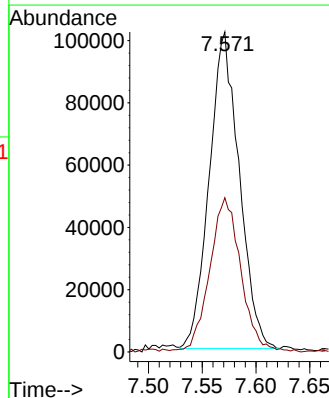
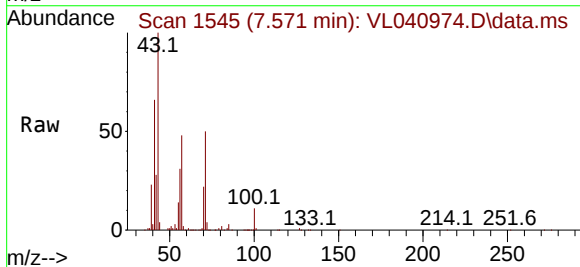
Acq: 15 Jan 2024 17:35

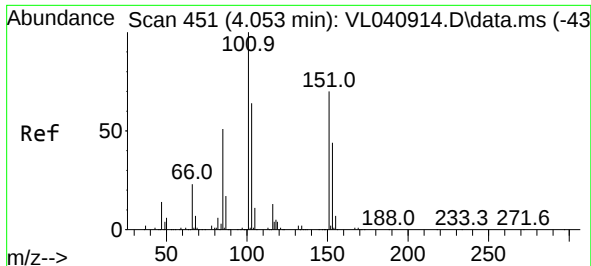
Tgt Ion: 43 Resp: 196828

Ion Ratio Lower Upper

43 100

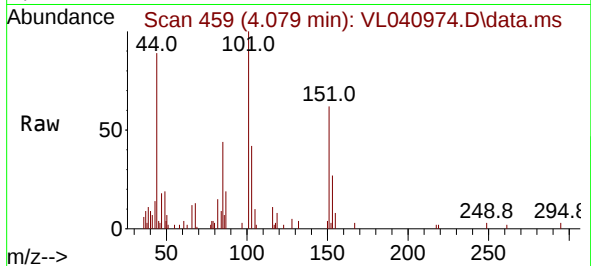
57 50.5 39.3 58.9





#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.094 ppbv m
RT: 4.079 min Scan# 41
Delta R.T. 0.026 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

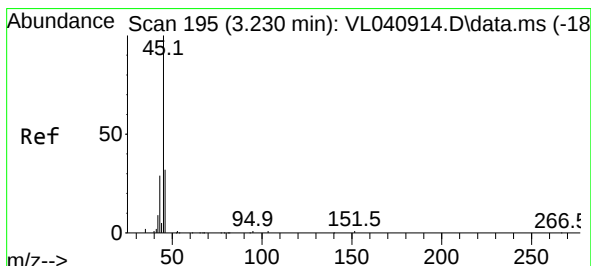
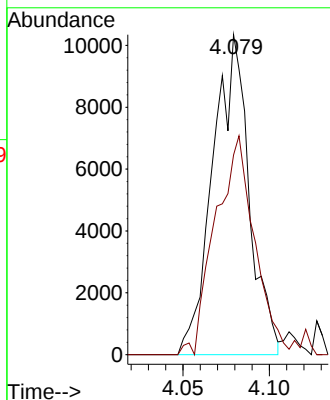
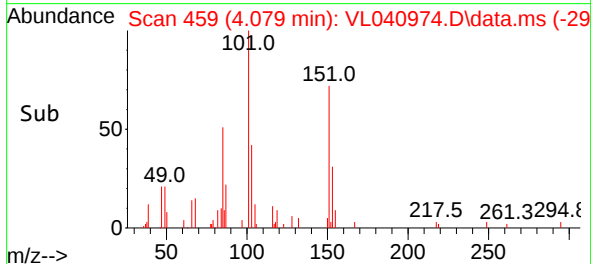
Instrument :
MSVOA_L
ClientSampleId :
SV1



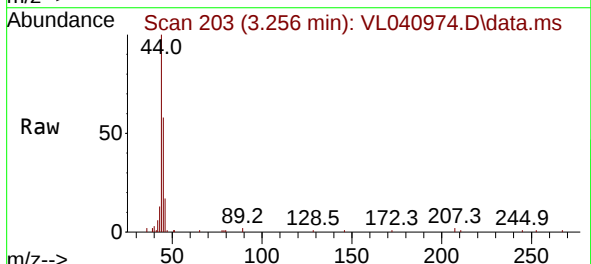
Tgt Ion:101 Resp: 1512
Ion Ratio Lower Upper
101 100
151 0.0 55.8 83.8

Manual Integrations
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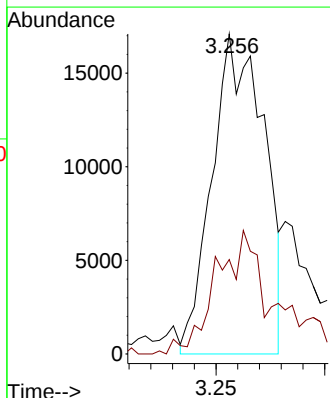
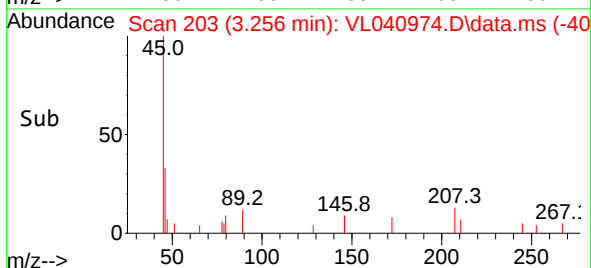
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024

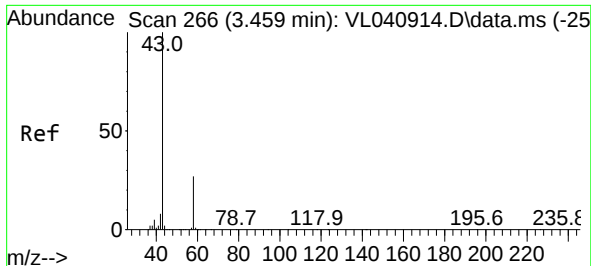


#13
Ethanol
Concen: 1.632 ppbv m
RT: 3.256 min Scan# 203
Delta R.T. 0.026 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35



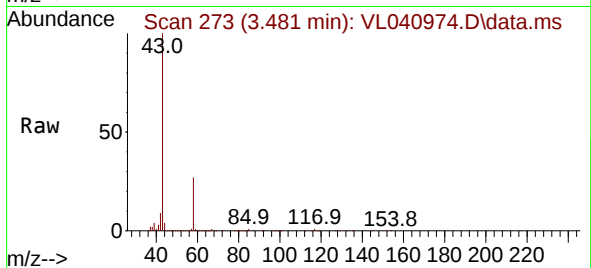
Tgt Ion: 45 Resp: 28317
Ion Ratio Lower Upper
45 100
46 45.4 15.0 60.0





#15
Acetone
Concen: 10.632 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

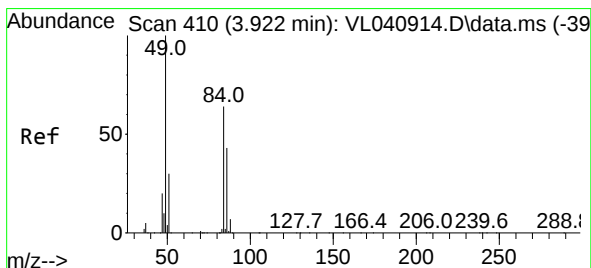
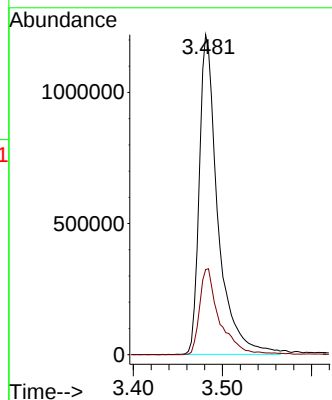
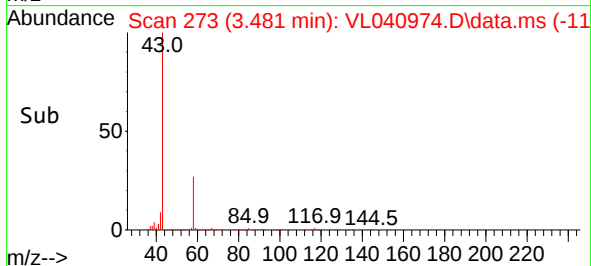
Instrument :
MSVOA_L
ClientSampleId :
SV1



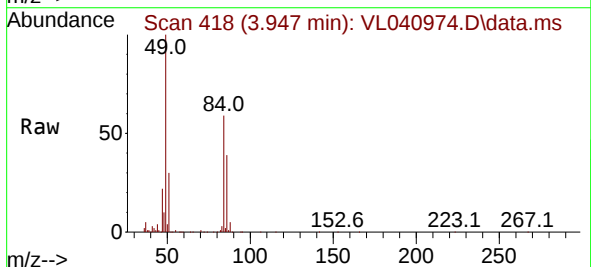
Tgt Ion: 43 Resp: 1766778
Ion Ratio Lower Upper
43 100
58 29.5 20.6 30.8

Manual Integrations
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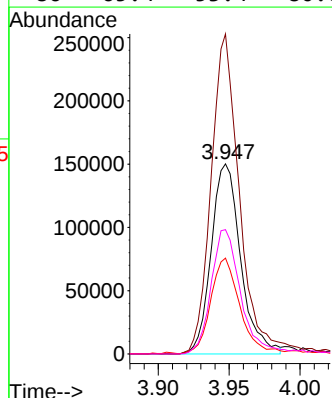
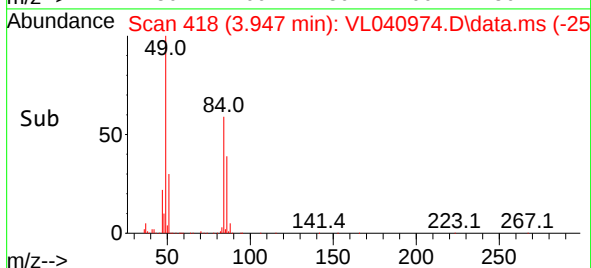
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024

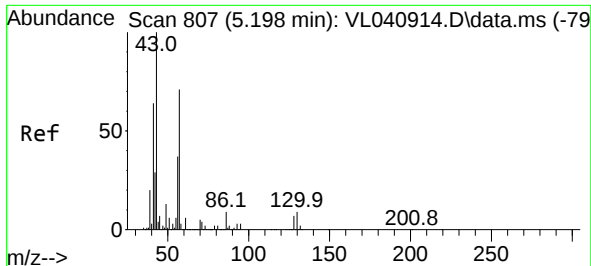


#20
Methylene Chloride
Concen: 3.672 ppbv
RT: 3.947 min Scan# 418
Delta R.T. 0.029 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35



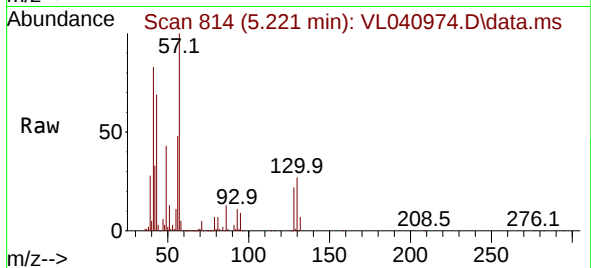
Tgt Ion: 84 Resp: 217507
Ion Ratio Lower Upper
84 100
49 168.2 124.6 187.0
51 50.3 37.2 55.8
86 65.4 53.4 80.0





#26
Hexane
Concen: 3.252 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.026 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

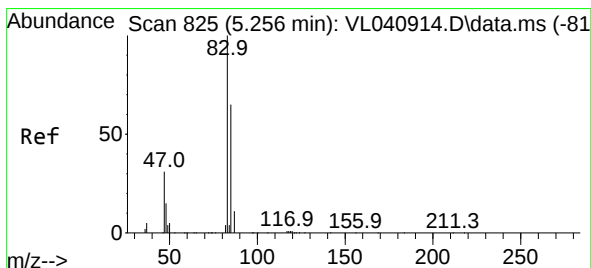
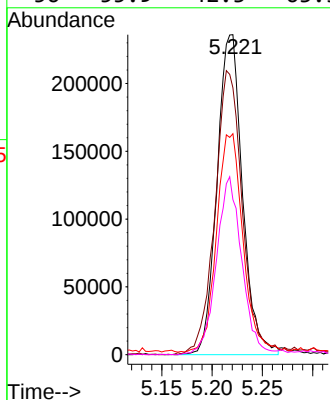
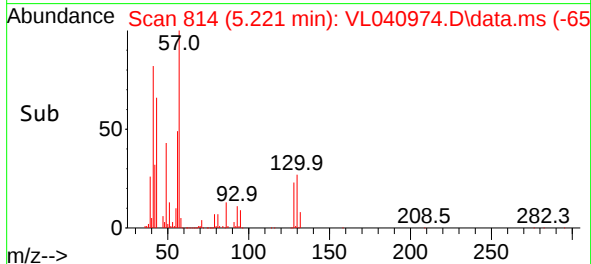
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 415054
Ion Ratio Lower Upper
57 100
41 98.5 75.2 112.8
43 71.3 188.0 282.0
56 55.9 42.3 63.5

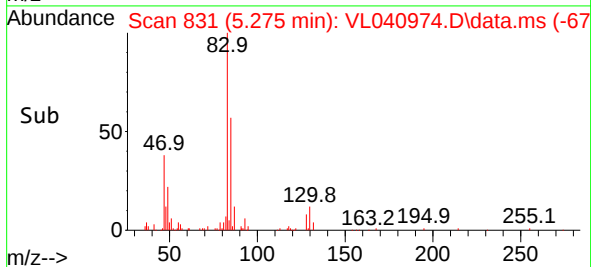
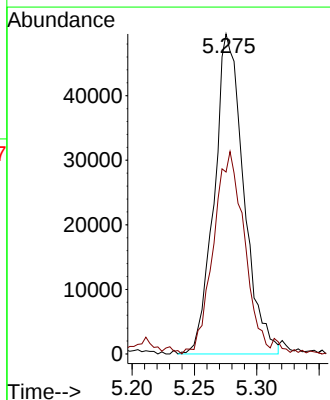
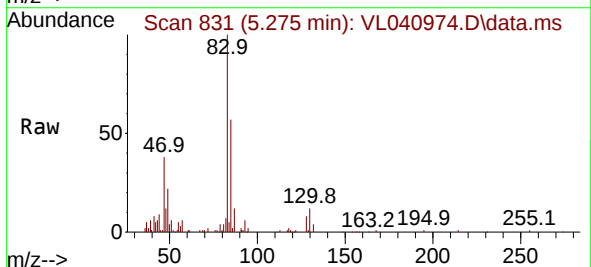
Manual Integrations
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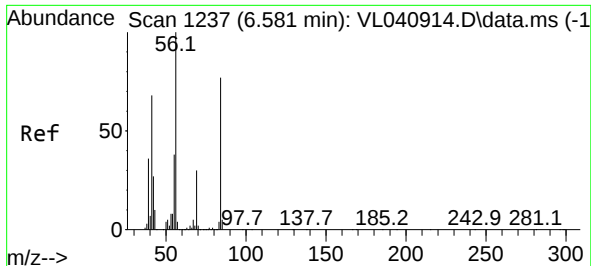
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#29
Chloroform
Concen: 0.379 ppbv
RT: 5.275 min Scan# 831
Delta R.T. 0.016 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

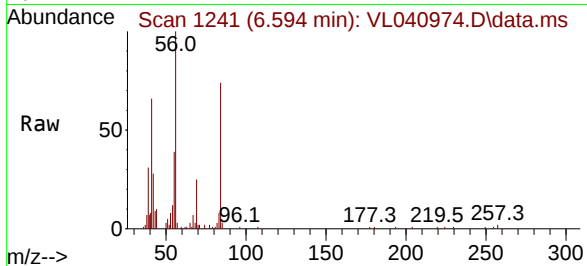
Tgt Ion: 83 Resp: 81554
Ion Ratio Lower Upper
83 100
85 55.8 52.3 78.5





#30
Cyclohexane
Concen: 0.319 ppbv m
RT: 6.594 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

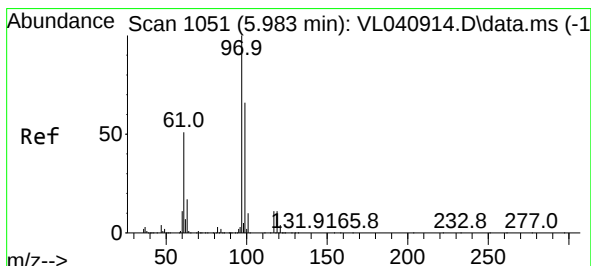
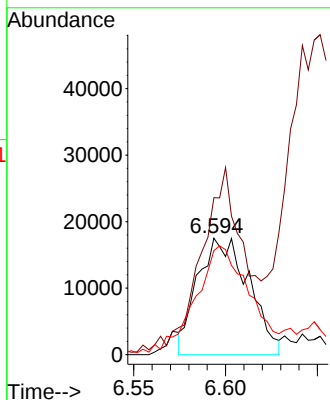
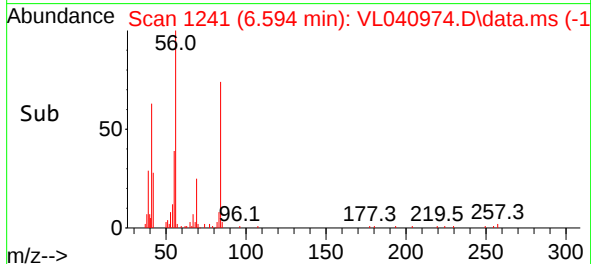
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 3393
Ion Ratio Lower Upper
84 100
56 0.0 111.4 167.2
41 0.0 70.0 105.0

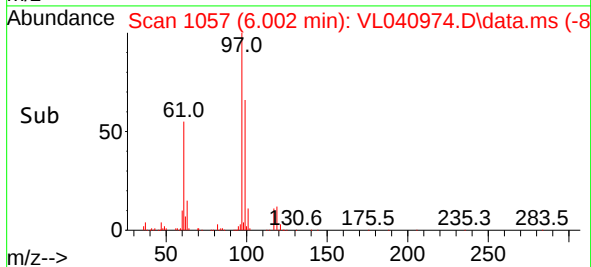
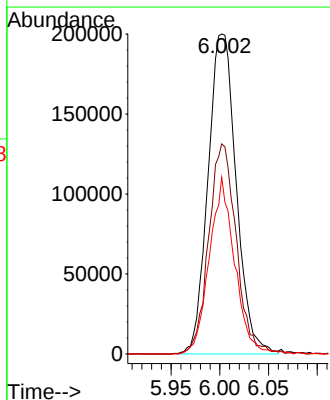
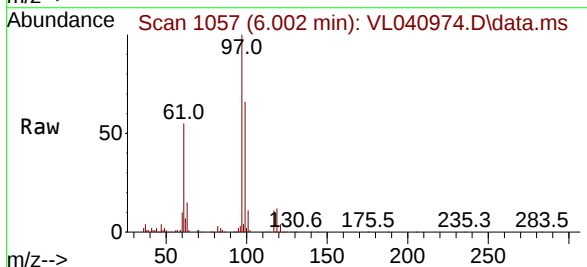
Manual Integrations
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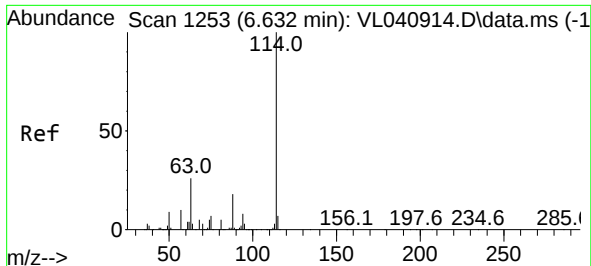
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#32
1,1,1-Trichloroethane
Concen: 1.937 ppbv
RT: 6.002 min Scan# 1057
Delta R.T. 0.016 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

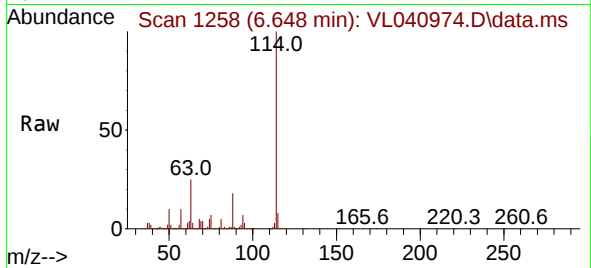
Tgt Ion: 97 Resp: 403375
Ion Ratio Lower Upper
97 100
99 64.2 51.8 77.6
61 49.6 41.0 61.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 114
Delta R.T. 0.013 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

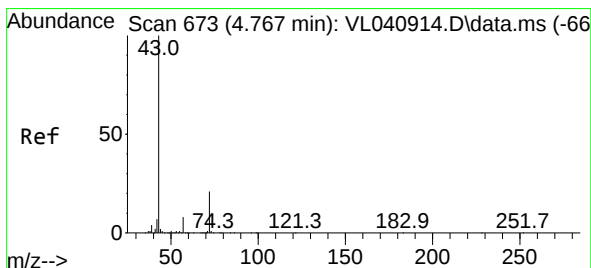
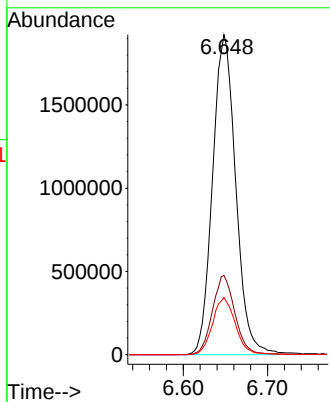
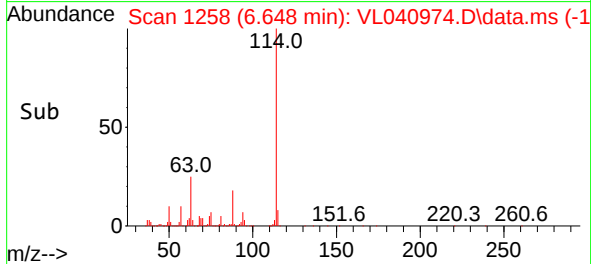
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:114 Resp: 366734
Ion Ratio Lower Upper
114 100
63 24.2 21.0 31.6
88 17.6 14.3 21.5

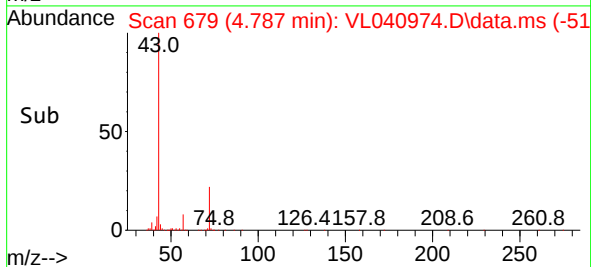
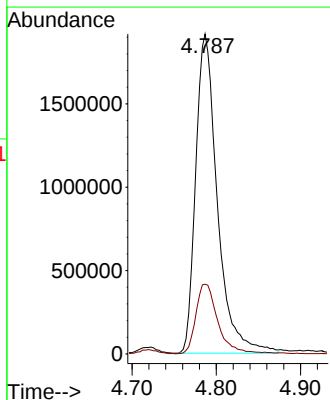
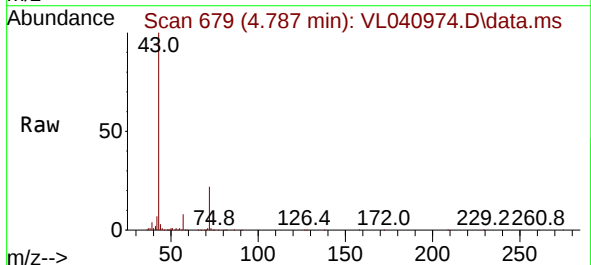
Manual Integrations
APPROVED

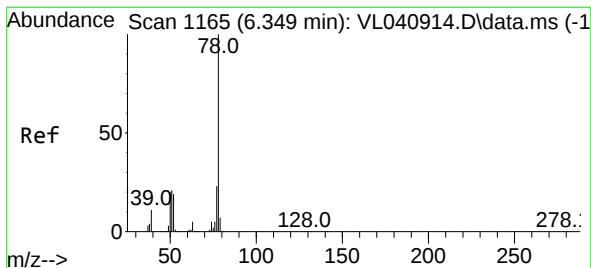
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#34
2-Butanone
Concen: 17.674 ppbv
RT: 4.787 min Scan# 679
Delta R.T. 0.016 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

Tgt Ion: 43 Resp: 3428801
Ion Ratio Lower Upper
43 100
72 22.4 17.2 25.8





#36

Benzene

Concen: 0.240 ppbv

RT: 6.369 min Scan# 1165

Delta R.T. 0.016 min

Lab File: VL040974.D

Acq: 15 Jan 2024 17:35

Instrument :

MSVOA_L

ClientSampleId :

SV1

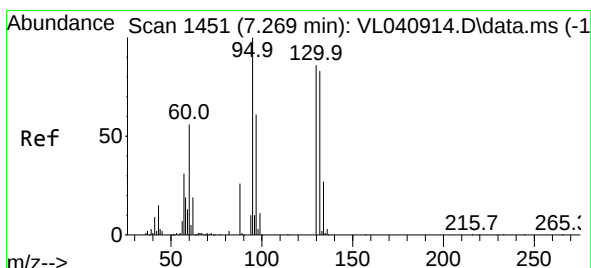
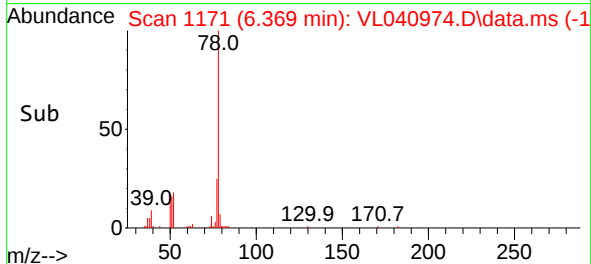
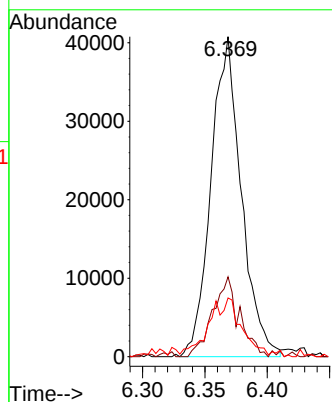
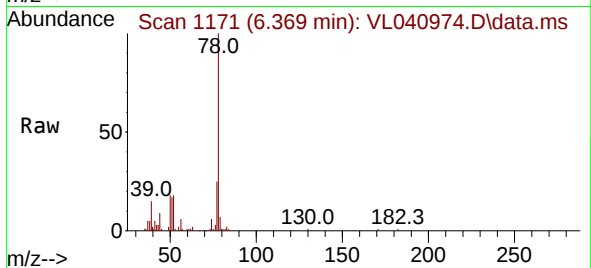
Tgt Ion: 78 Resp: 68910

Ion	Ratio	Lower	Upper
78	100		
77	25.5	18.4	27.6
50	17.9	16.0	24.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#38

Trichloroethene

Concen: 6.070 ppbv

RT: 7.285 min Scan# 1456

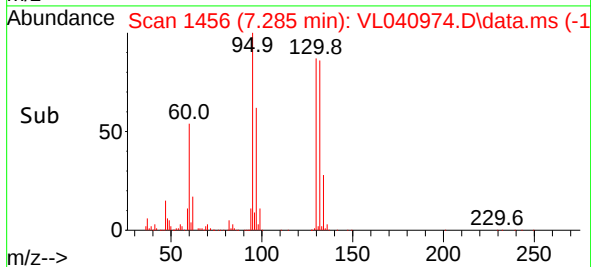
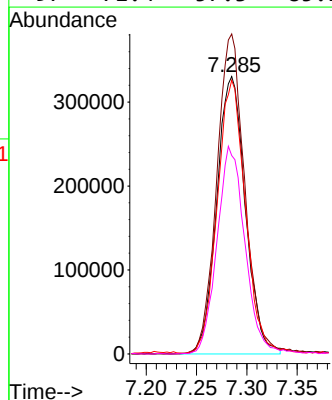
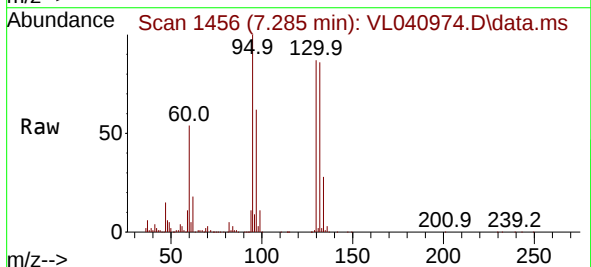
Delta R.T. 0.016 min

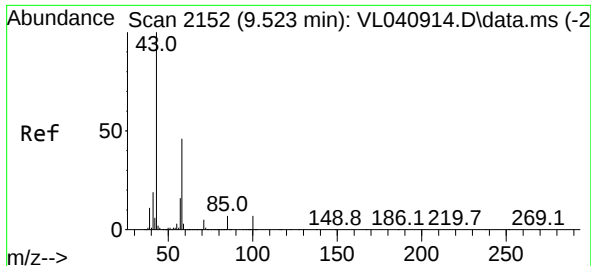
Lab File: VL040974.D

Acq: 15 Jan 2024 17:35

Tgt Ion:130 Resp: 653585

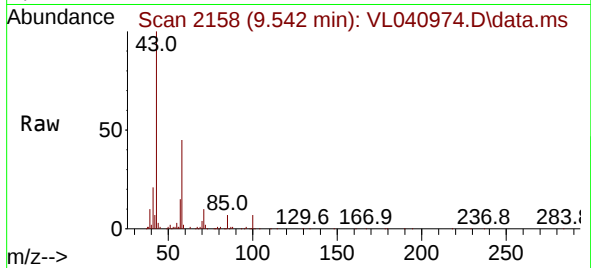
Ion	Ratio	Lower	Upper
130	100		
95	115.2	93.5	140.3
132	98.3	77.4	116.2
97	71.4	57.3	85.9





#51
2-Hexanone
Concen: 1.668 ppbv
RT: 9.542 min Scan# 2152
Delta R.T. 0.013 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

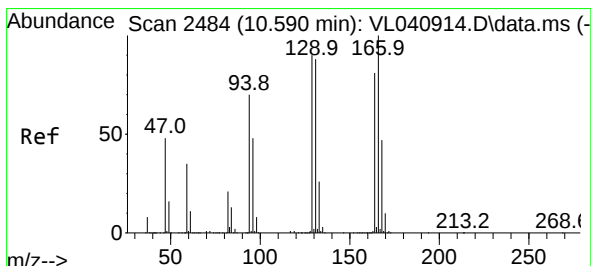
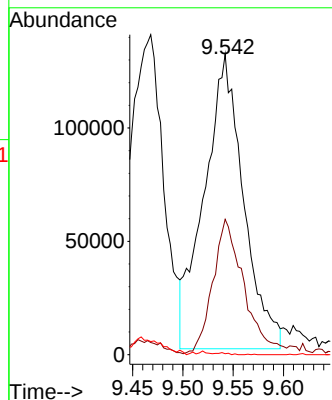
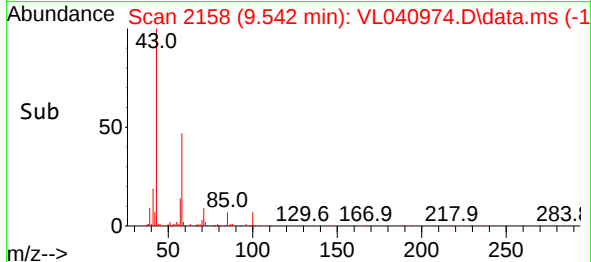
Instrument :
MSVOA_L
ClientSampleId :
SV1



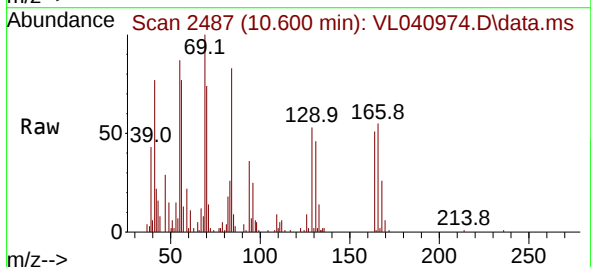
Tgt Ion: 43 Resp: 35269
Ion Ratio Lower Upper
43 100
58 37.0 37.3 55.9
98 0.0 0.2 0.2

Manual Integrations
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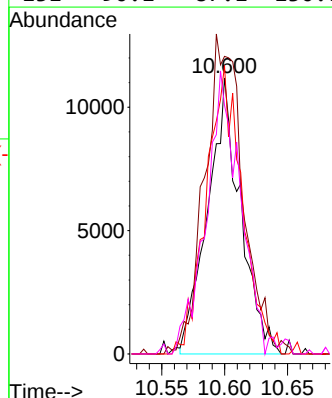
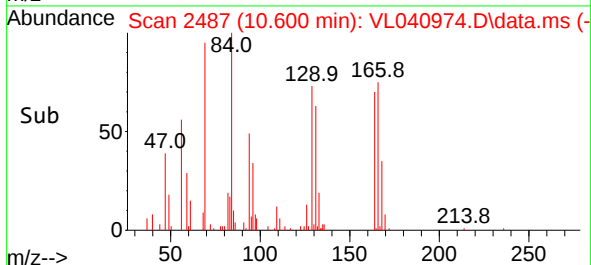
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024

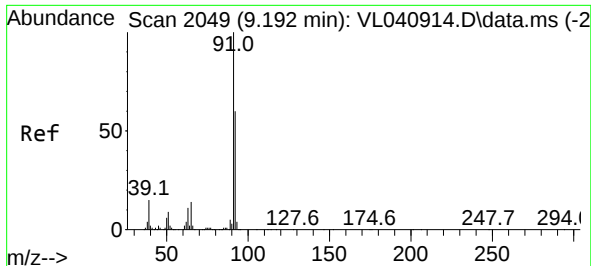


#52
Tetrachloroethene
Concen: 0.209 ppbv m
RT: 10.600 min Scan# 2487
Delta R.T. 0.006 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35



Tgt Ion:164 Resp: 20225
Ion Ratio Lower Upper
164 100
166 107.8 98.9 148.3
129 104.4 88.7 133.1
131 90.1 87.1 130.7





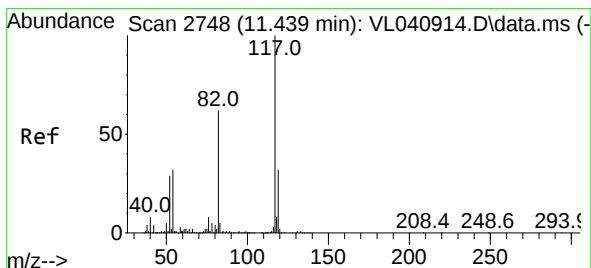
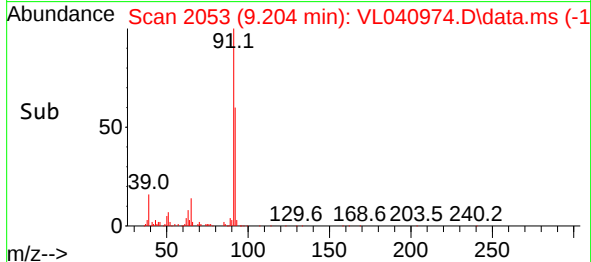
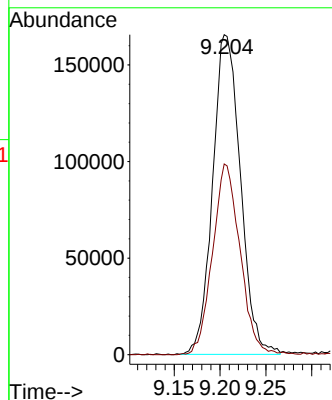
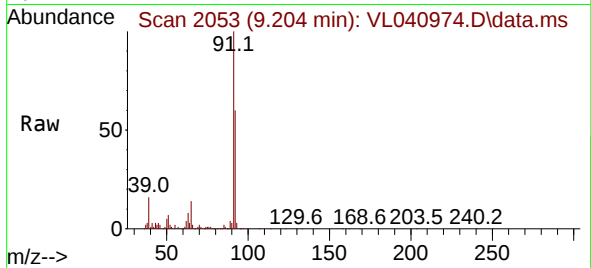
#53
Toluene
Concen: 1.097 ppbv
RT: 9.204 min Scan# 2049
Delta R.T. 0.006 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 348672
Ion Ratio Lower Upper
91 100
92 59.1 49.2 73.8

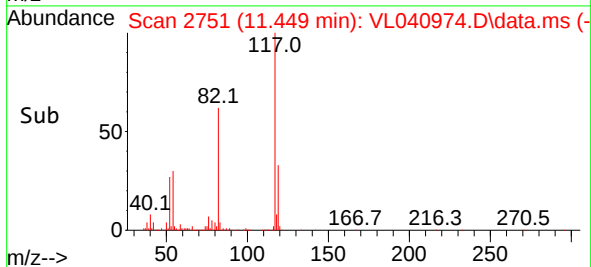
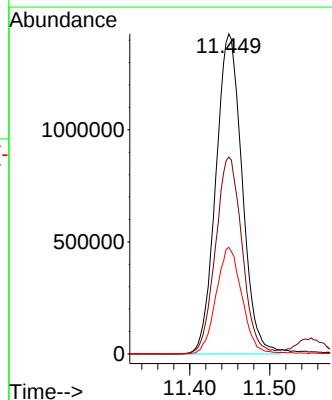
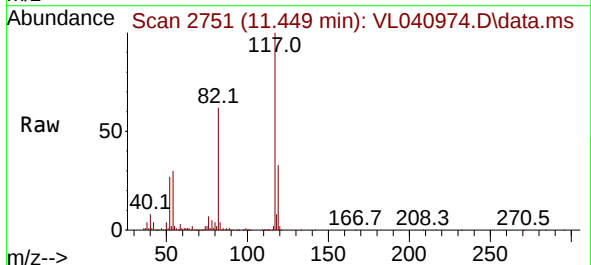
Manual Integrations
APPROVED

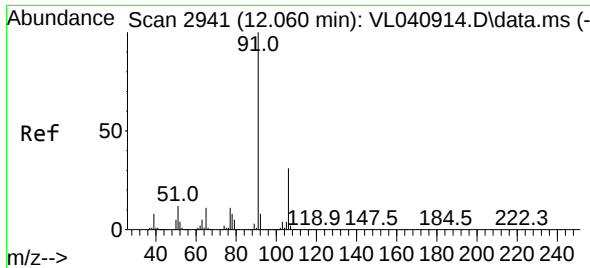
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. 0.006 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

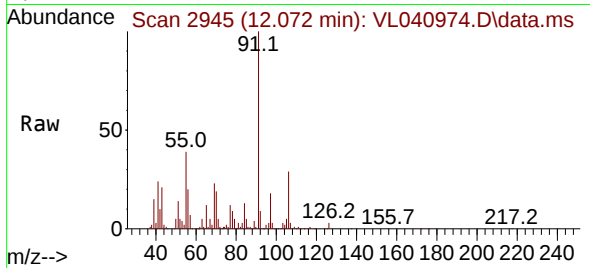
Tgt Ion:117 Resp: 3261869
Ion Ratio Lower Upper
117 100
82 62.3 49.6 74.4
119 33.0 23.4 35.0





#58
Ethyl Benzene
Concen: 0.511 ppbv
RT: 12.072 min Scan# 2941
Delta R.T. 0.010 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

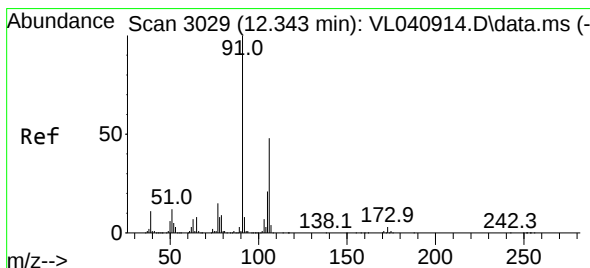
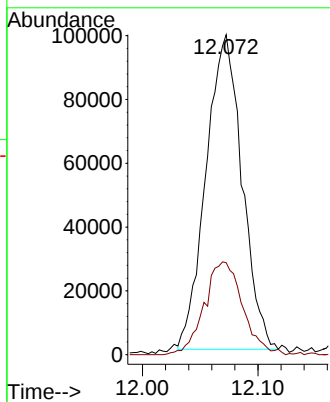
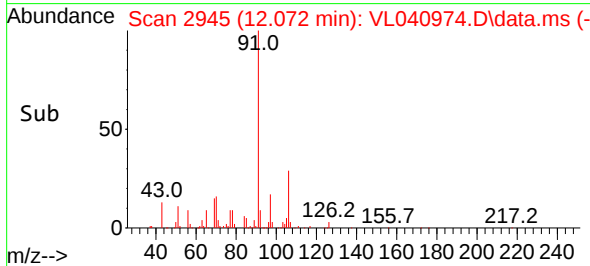
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 91 Resp: 213940
Ion Ratio Lower Upper
91 100
106 27.9 24.9 37.3

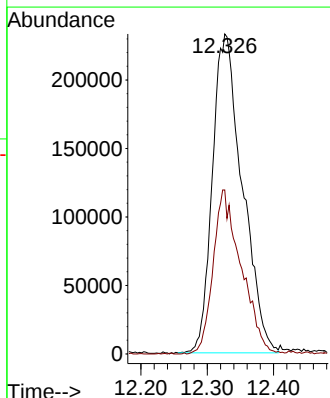
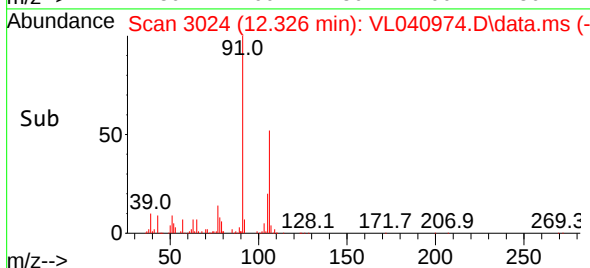
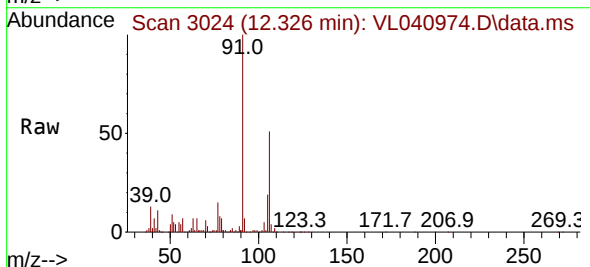
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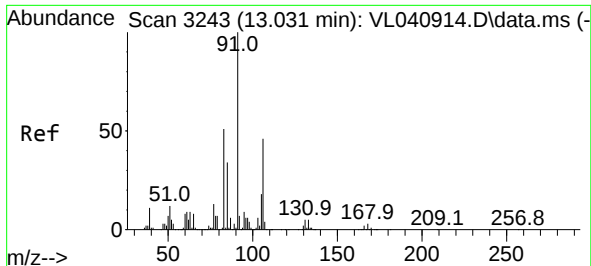
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#59
m/p-Xylene
Concen: 2.048 ppbv
RT: 12.326 min Scan# 3024
Delta R.T. -0.023 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

Tgt Ion: 91 Resp: 729719
Ion Ratio Lower Upper
91 100
106 48.8 0.0 0.0#





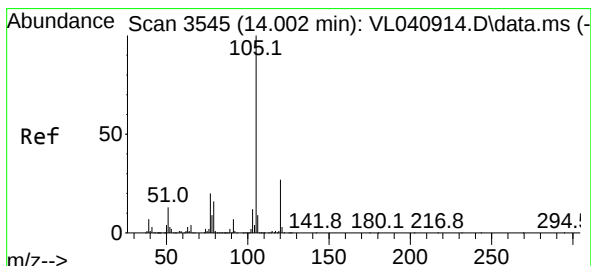
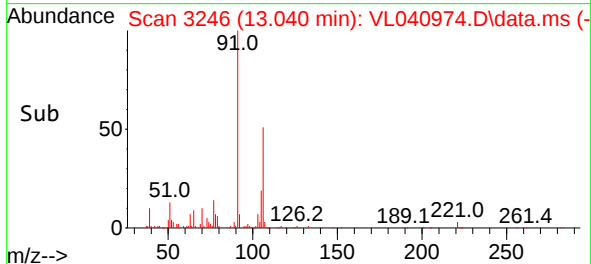
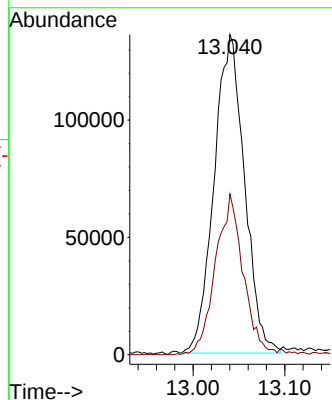
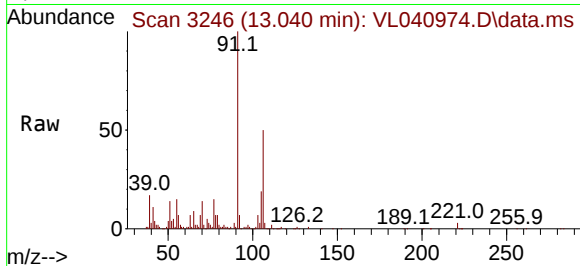
#60
o-Xylene
Concen: 0.931 ppbv
RT: 13.040 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 31271
Ion Ratio Lower Upper
91 100
106 46.0 22.6 67.7

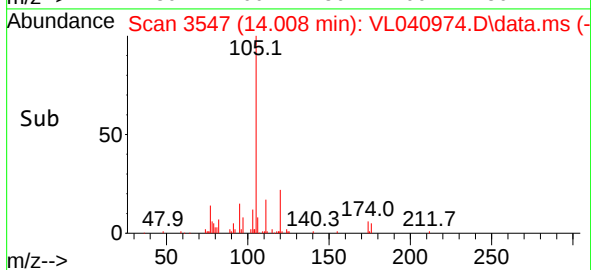
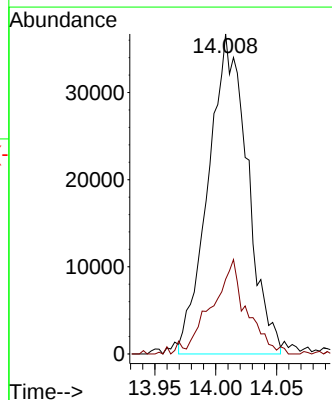
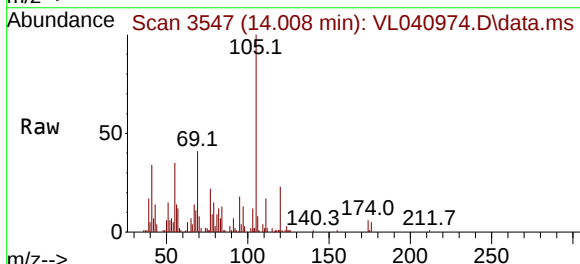
Manual Integrations
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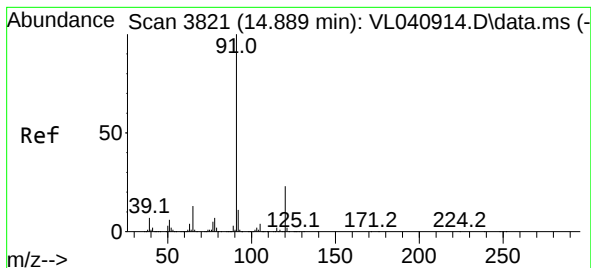
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#62
Isopropylbenzene
Concen: 0.165 ppbv m
RT: 14.008 min Scan# 3547
Delta R.T. 0.003 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

Tgt Ion:105 Resp: 82050
Ion Ratio Lower Upper
105 100
120 26.8 20.7 31.1





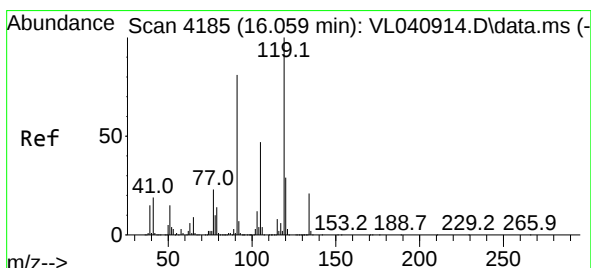
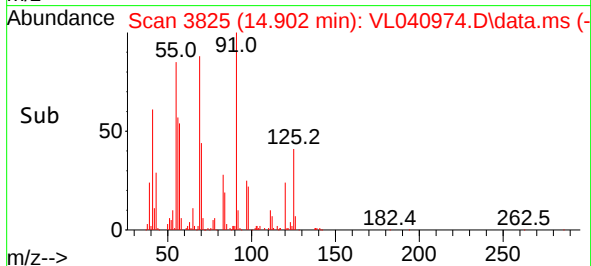
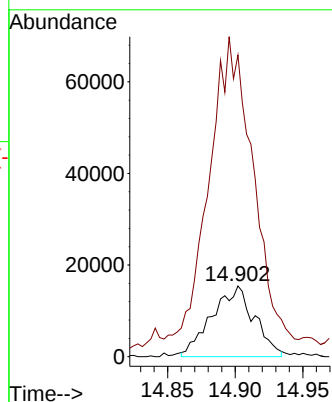
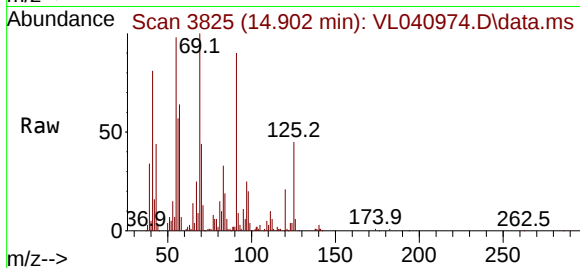
#64
n-propylbenzene
Concen: 0.269 ppbv m
RT: 14.902 min Scan# 3825
Delta R.T. 0.010 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:120 Resp: 33630
Ion Ratio Lower Upper
120 100
91 0.0 381.9 572.9

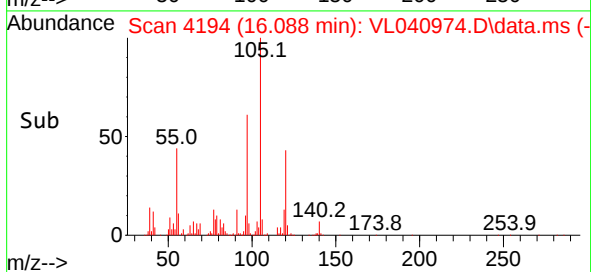
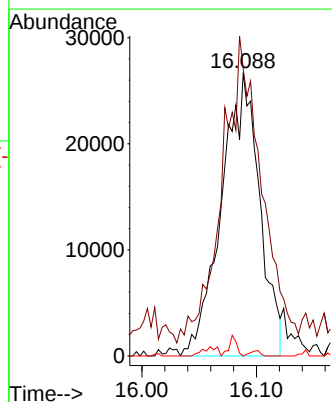
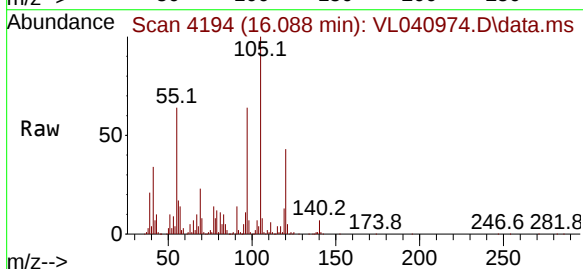
Manual Integrations
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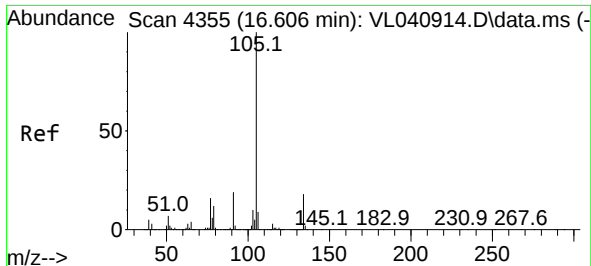
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#65
tert-Butylbenzene
Concen: 0.145 ppbv m
RT: 16.088 min Scan# 4194
Delta R.T. 0.022 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

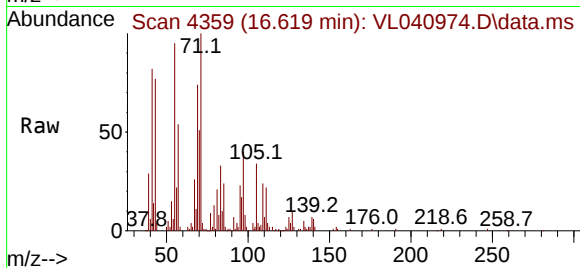
Tgt Ion:119 Resp: 61550
Ion Ratio Lower Upper
119 100
91 0.0 67.2 100.8#
134 3.2 15.8 23.6#





#67
 sec-Butylbenzene
 Concen: 0.091 ppbv
 RT: 16.619 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL040974.D
 Acq: 15 Jan 2024 17:35

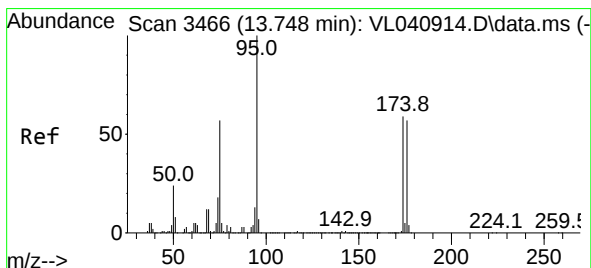
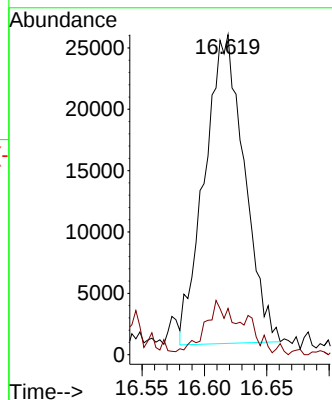
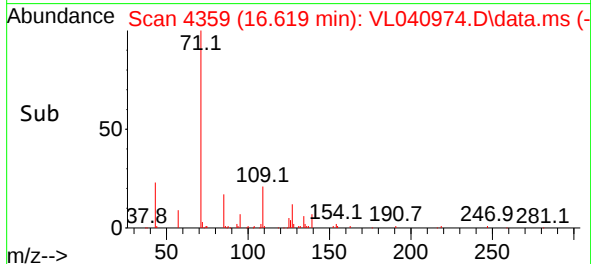
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion: 105 Resp: 5572
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.4 21.6

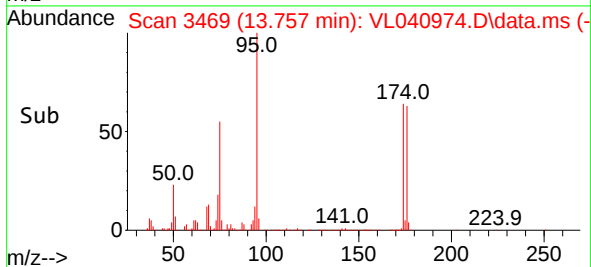
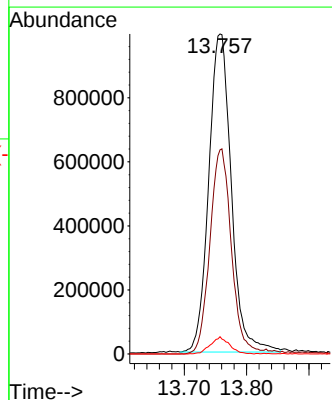
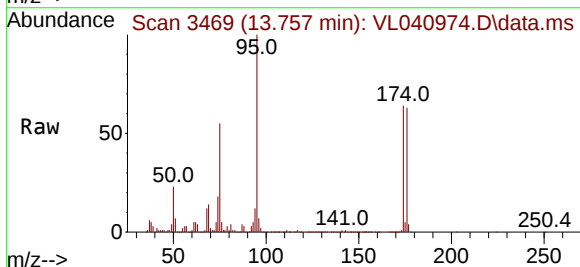
Manual Integrations
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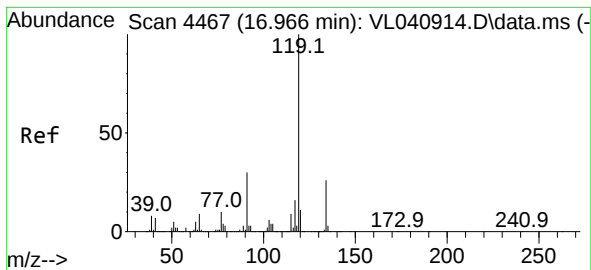
Reviewed By :Semsettin Yesilyurt 01/16/2024
 Supervised By :Mahesh Dadoda 01/16/2024



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.405 ppbv
 RT: 13.757 min Scan# 3469
 Delta R.T. 0.003 min
 Lab File: VL040974.D
 Acq: 15 Jan 2024 17:35

Tgt Ion: 95 Resp: 2499968
 Ion Ratio Lower Upper
 95 100
 174 61.9 48.0 72.0
 175 4.6 3.7 5.5





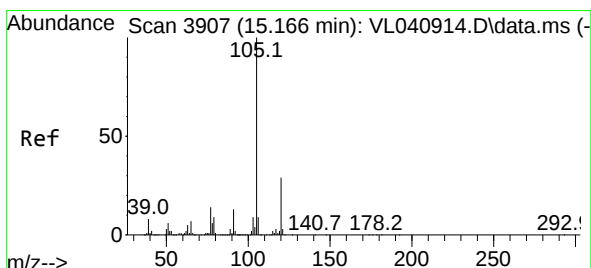
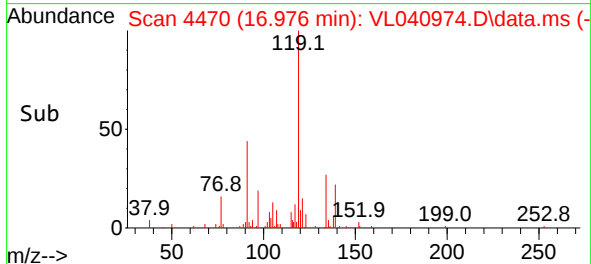
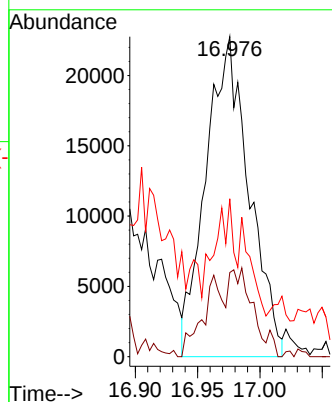
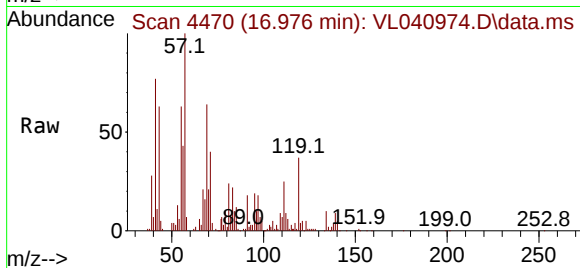
#69
p-Isopropyltoluene
Concen: 0.115 ppbv m
RT: 16.976 min Scan# 4467
Delta R.T. 0.006 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:119 Resp: 5484
Ion Ratio Lower Upper
119 100
134 50.7 20.3 30.5
91 55.9 24.1 36.1

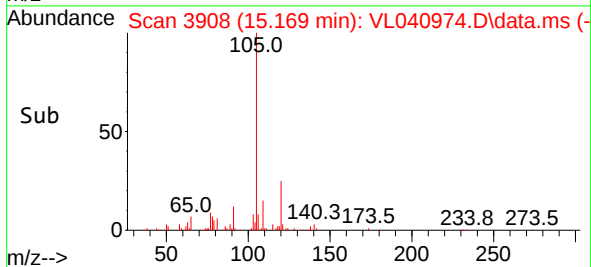
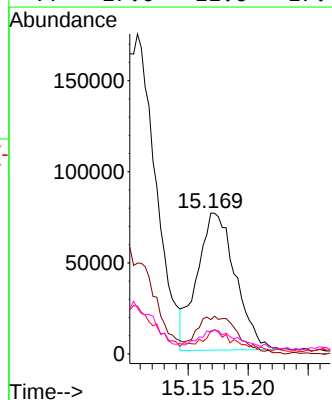
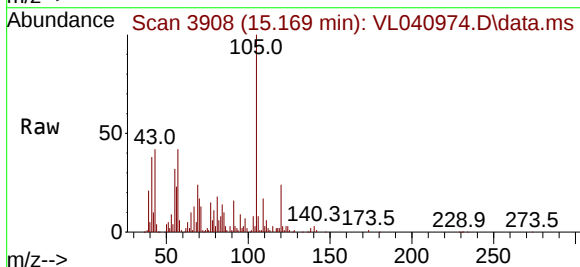
Manual Integrations
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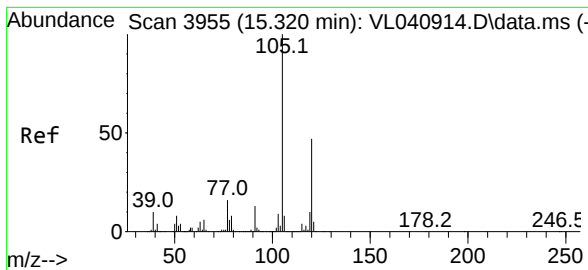
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#72
4-Ethyltoluene
Concen: 0.453 ppbv
RT: 15.169 min Scan# 3908
Delta R.T. -0.000 min
Lab File: VL040974.D
Acq: 15 Jan 2024 17:35

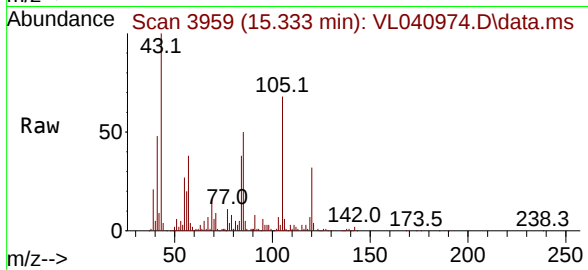
Tgt Ion:105 Resp: 167040
Ion Ratio Lower Upper
105 100
120 29.4 23.8 35.8
91 17.2 10.9 16.3
77 17.0 11.6 17.4





#73
 1,3,5-Trimethylbenzene
 Concen: 0.637 ppbv
 RT: 15.333 min Scan# 3955
 Delta R.T. 0.003 min
 Lab File: VL040974.D
 Acq: 15 Jan 2024 17:35

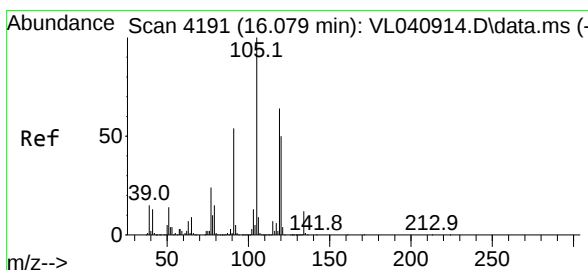
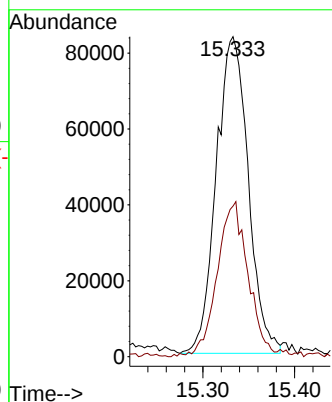
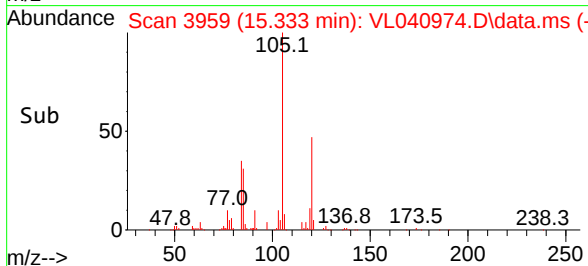
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:105 Resp: 20273
 Ion Ratio Lower Upper
 105 100
 120 46.5 37.8 56.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/16/2024
 Supervised By :Mahesh Dadoda 01/16/2024



#74
 1,2,4-Trimethylbenzene
 Concen: 1.398 ppbv
 RT: 16.085 min Scan# 4193
 Delta R.T. -0.000 min
 Lab File: VL040974.D
 Acq: 15 Jan 2024 17:35

Tgt Ion:105 Resp: 494877
 Ion Ratio Lower Upper
 105 100
 120 45.8 40.2 60.4
 91 13.2 43.0 64.6#
 77 14.7 18.9 28.3#

