

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022723\
 Data File : VL040237.D
 Acq On : 27 Feb 2023 15:54
 Operator : SY/MD
 Sample : 01705-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 02212023-EFFLUENTDUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/28/2023
 Supervised By : Mahesh Dadoda 02/28/2023

Quant Time: Feb 28 00:19:51 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 28 00:12:21 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	870097	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2163347	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	1808997	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1428411	9.603	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.726	85	56267	0.347	ppbv	96
3) Chlorodifluoromethane	2.671	51	31815m	0.306	ppbv	
4) Chloromethane	2.806	50	11958	0.183	ppbv	90
9) Propene	2.700	41	40433	0.954	ppbv	85
10) Heptane	7.587	43	14885m	0.148	ppbv	
11) Trichlorofluoromethane	3.559	101	42269	0.291	ppbv	90
13) Ethanol	3.234	45	200829	51.488	ppbv	91
15) Acetone	3.465	43	828894	7.913	ppbv	96
17) tert-Butyl alcohol	3.886	59	16078m	0.168	ppbv	
19) Isopropyl Alcohol	3.578	45	153201	3.077	ppbv #	95
20) Methylene Chloride	3.931	84	1019332	18.692	ppbv	95
26) Hexane	5.214	57	1384593	16.562	ppbv #	38
29) Chloroform	5.275	83	28476	0.198	ppbv	94
30) Cyclohexane	6.600	84	8699m	0.133	ppbv	
31) cis-1,2-Dichloroethene	5.079	61	96044	1.209	ppbv	96
32) 1,1,1-Trichloroethane	6.005	97	171802	1.274	ppbv	98
34) 2-Butanone	4.790	43	74507m	0.698	ppbv	
35) Carbon Tetrachloride	6.497	117	7741m	0.061	ppbv	
36) Benzene	6.375	78	50559	0.300	ppbv #	92
38) Trichloroethene	7.295	130	449322	4.843	ppbv	98
50) 4-Methyl-2-Pentanone	8.211	43	43226m	0.261	ppbv	
52) Tetrachloroethene	10.623	164	340242m	6.472	ppbv	
53) Toluene	9.227	91	104154m	0.578	ppbv	
59) m/p-Xylene	12.356	91	40510m	0.208	ppbv	

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

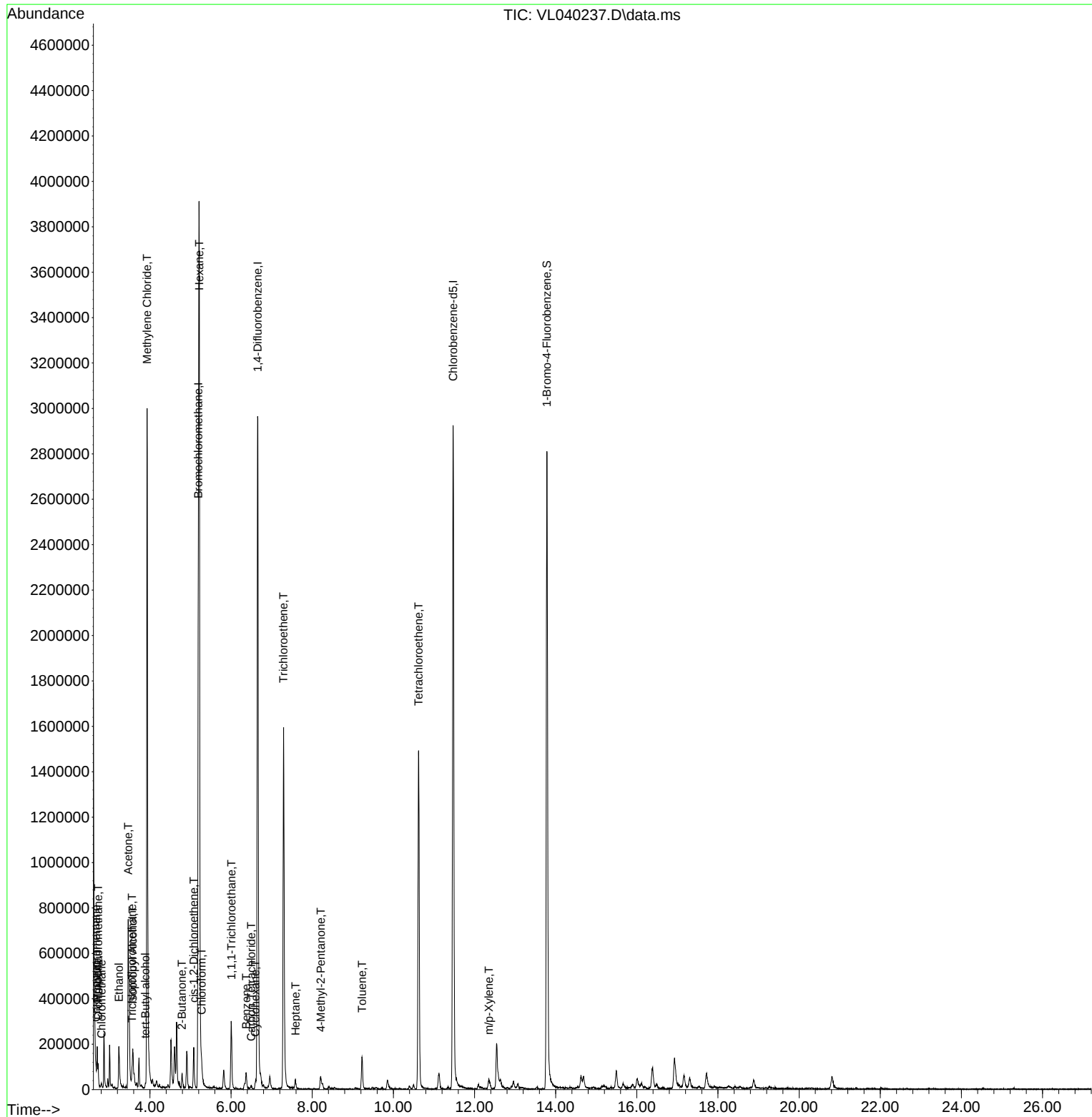
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022723\
Data File : VL040237.D
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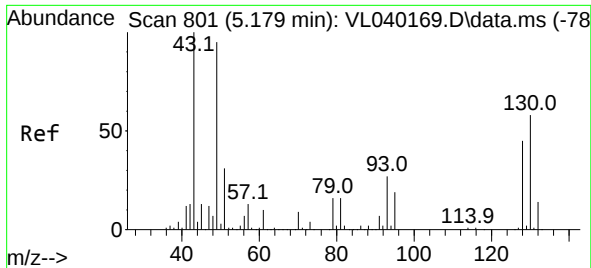
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENTDUP

Quant Time: Feb 28 00:19:51 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 28 00:12:21 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 02/28/2023
Supervised By : Mahesh Dadoda 02/28/2023





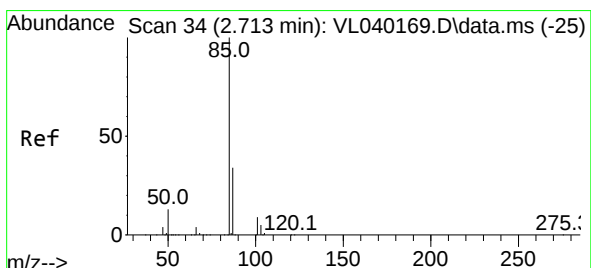
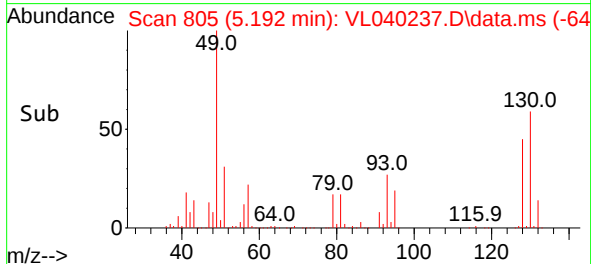
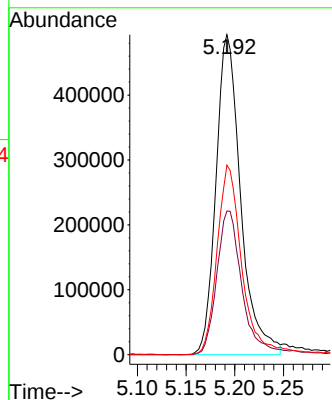
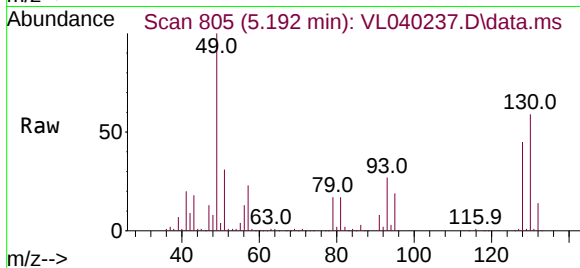
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.010 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENTDUP

Tgt Ion: 49 Resp: 87009
Ion Ratio Lower Upper
49 100
128 47.3 24.1 72.3
130 61.1 30.9 92.8

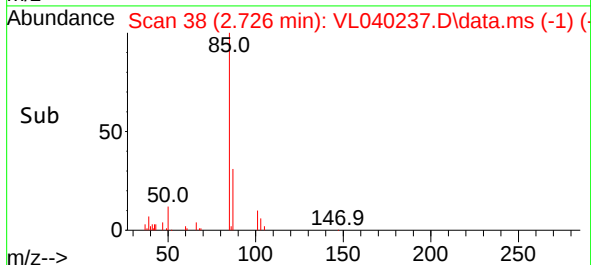
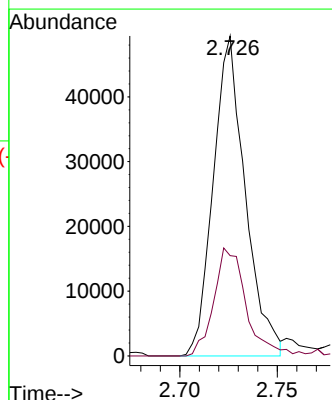
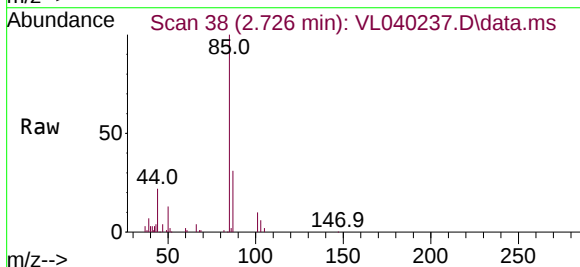
Manual Integrations
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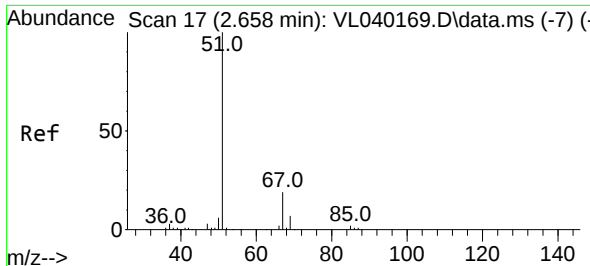
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#2
Dichlorodifluoromethane
Concen: 0.347 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.010 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

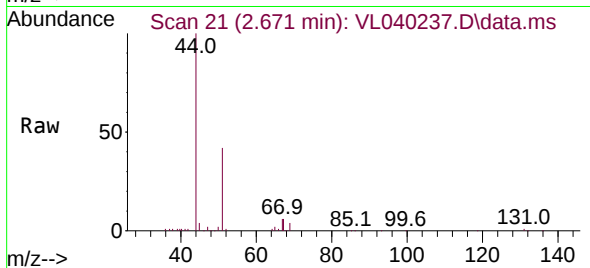
Tgt Ion: 85 Resp: 56267
Ion Ratio Lower Upper
85 100
87 31.4 27.0 40.6





#3
Chlorodifluoromethane
Concen: 0.306 ppbv m
RT: 2.671 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

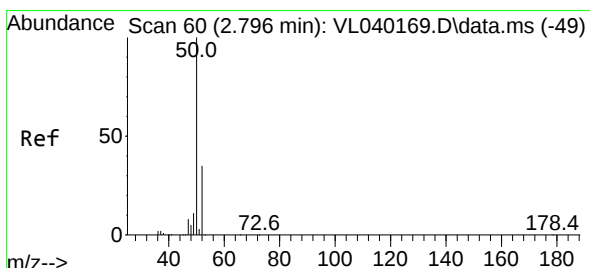
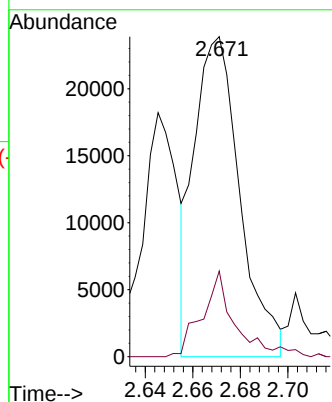
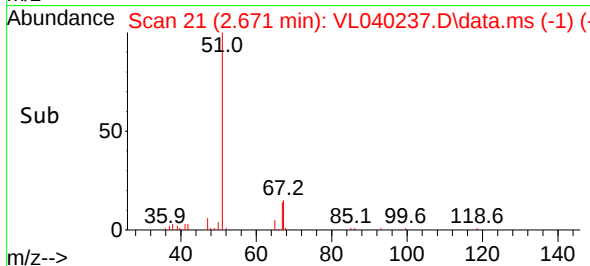
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENTDUP



Tgt Ion: 51 Resp: 3181
Ion Ratio Lower Upper
51 100
67 19.7 15.4 23.2

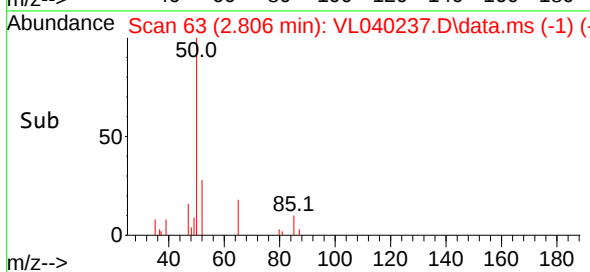
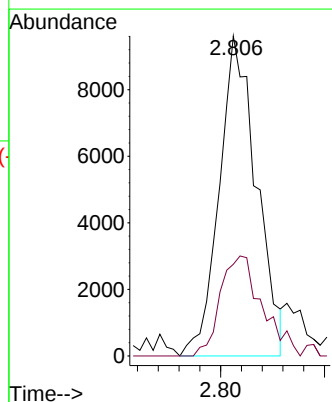
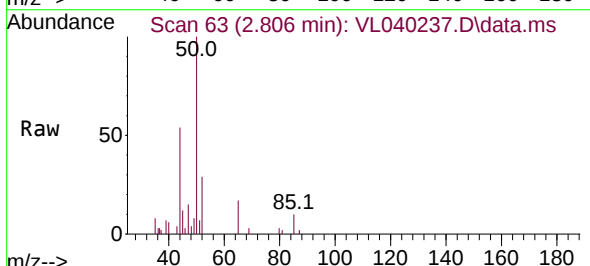
Manual Integrations
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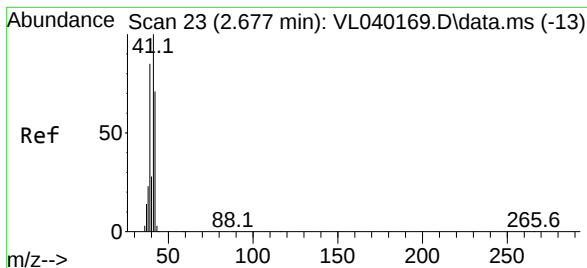
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#4
Chloromethane
Concen: 0.183 ppbv
RT: 2.806 min Scan# 63
Delta R.T. 0.010 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

Tgt Ion: 50 Resp: 11958
Ion Ratio Lower Upper
50 100
52 29.4 28.3 42.5





#9

Propene

Concen: 0.954 ppbv

RT: 2.700 min Scan# 30

Delta R.T. 0.020 min

Lab File: VL040237.D

Acq: 27 Feb 2023 15:54

Instrument :

MSVOA_L

ClientSampleId :

02212023-EFFLUENTDUP

Tgt Ion: 41 Resp: 4043

Ion Ratio Lower Upper

41 100

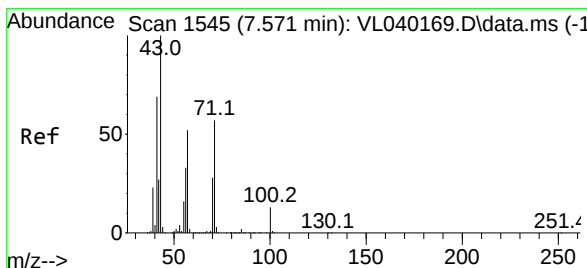
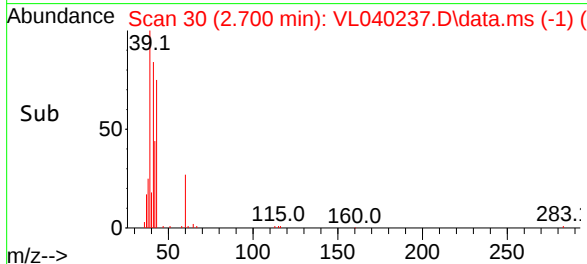
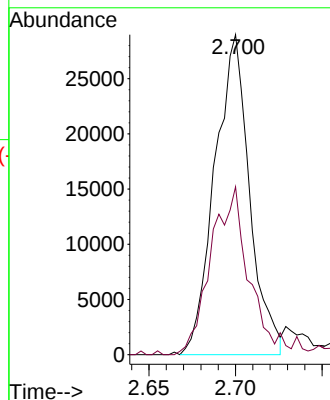
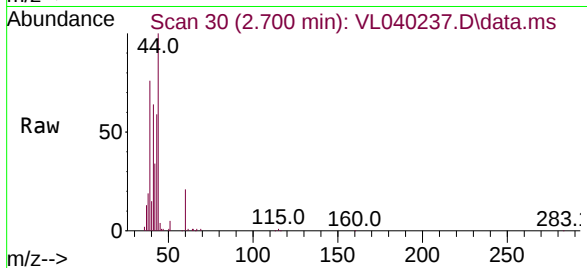
42 58.9 56.9 85.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/28/2023

Supervised By :Mahesh Dadoda 02/28/2023



#10

Heptane

Concen: 0.148 ppbv m

RT: 7.587 min Scan# 1550

Delta R.T. 0.010 min

Lab File: VL040237.D

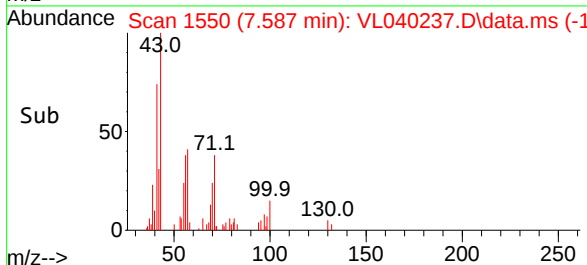
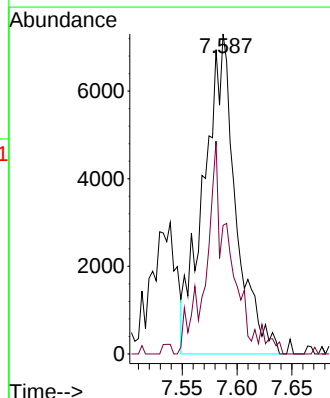
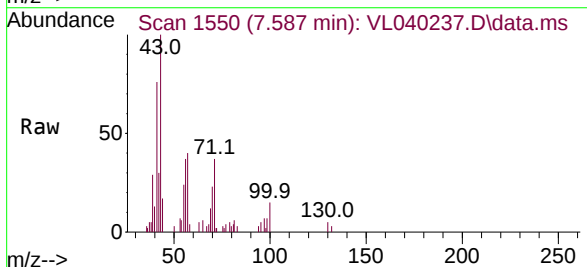
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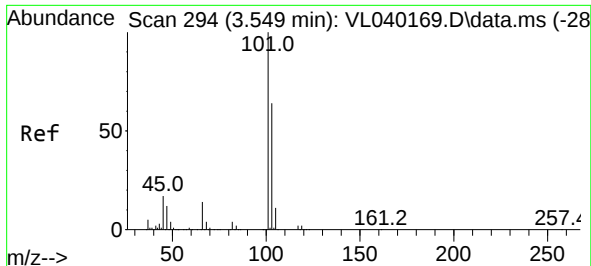
Tgt Ion: 43 Resp: 14885

Ion Ratio Lower Upper

43 100

57 51.0 41.4 62.2





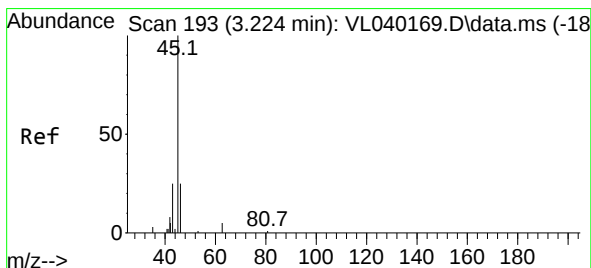
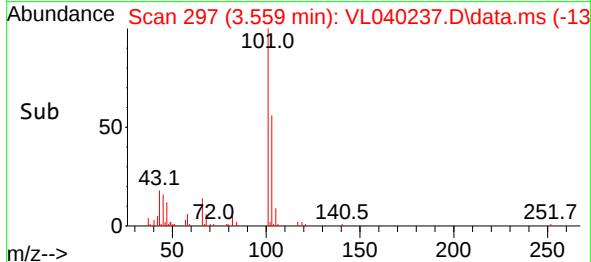
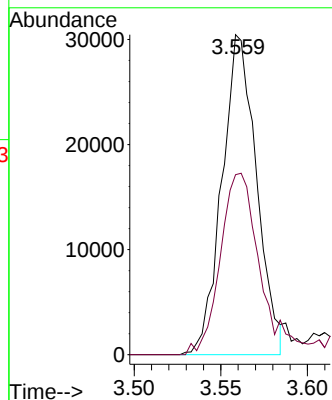
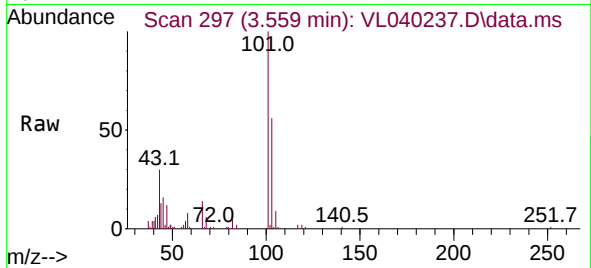
#11
Trichlorofluoromethane
Concen: 0.291 ppbv
RT: 3.559 min Scan# 294
Delta R.T. 0.010 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENTDUP

Tgt Ion:101 Resp: 42269
Ion Ratio Lower Upper
101 100
103 56.3 51.0 76.6

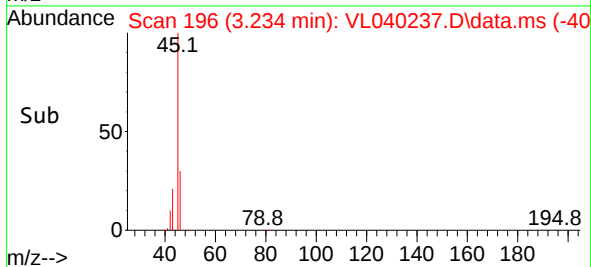
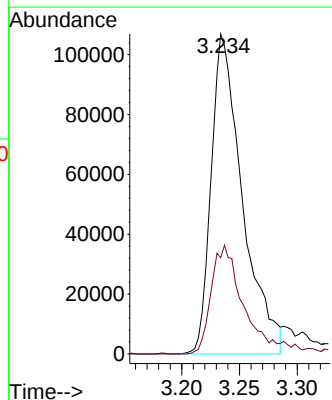
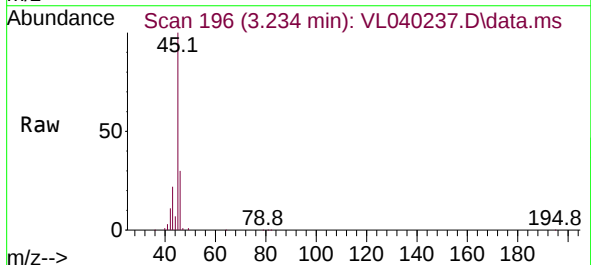
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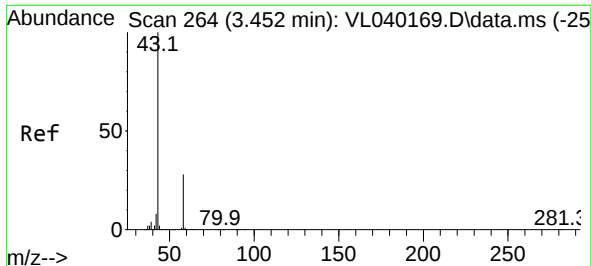
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#13
Ethanol
Concen: 51.488 ppbv
RT: 3.234 min Scan# 196
Delta R.T. 0.000 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

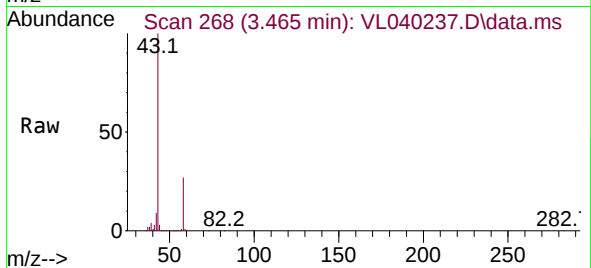
Tgt Ion: 45 Resp: 200829
Ion Ratio Lower Upper
45 100
46 38.2 13.3 53.1





#15
Acetone
Concen: 7.913 ppbv
RT: 3.465 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

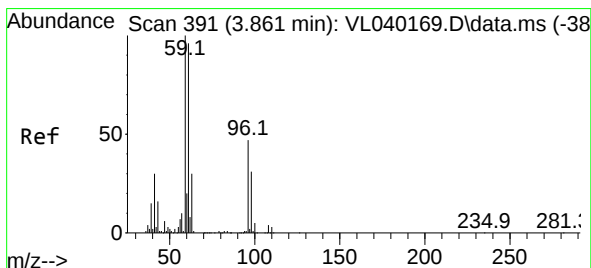
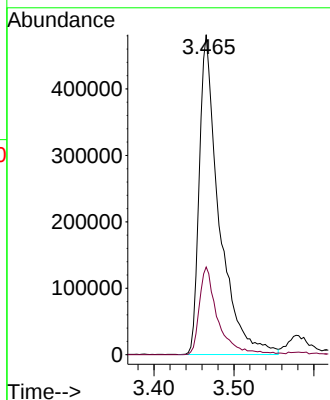
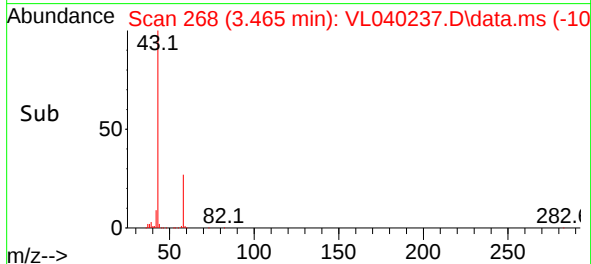
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENTDUP



Tgt Ion: 43 Resp: 828894
Ion Ratio Lower Upper
43 100
58 25.7 22.4 33.6

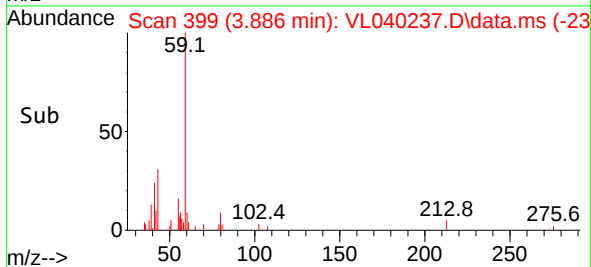
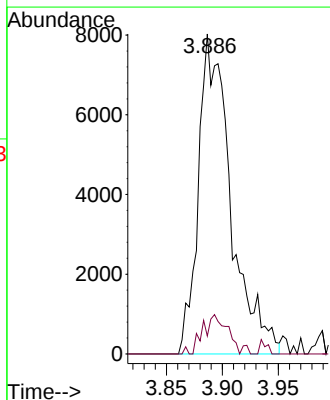
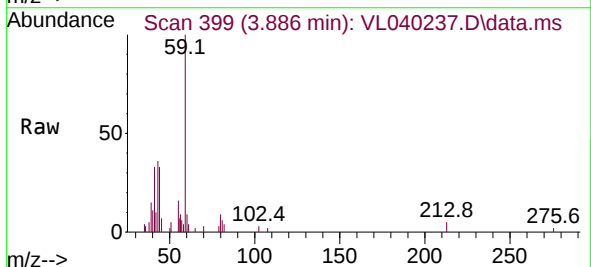
Manual Integrations
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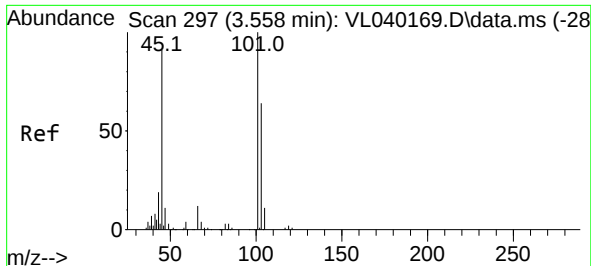
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#17
tert-Butyl alcohol
Concen: 0.168 ppbv m
RT: 3.886 min Scan# 399
Delta R.T. 0.023 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

Tgt Ion: 59 Resp: 16078
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 3.077 ppbv

RT: 3.578 min Scan# 303

Delta R.T. 0.013 min

Lab File: VL040237.D

Acq: 27 Feb 2023 15:54

Instrument :

MSVOA_L

ClientSampleId :

02212023-EFFLUENTDUP

Tgt Ion: 45 Resp: 15320

Ion Ratio Lower Upper

45 100

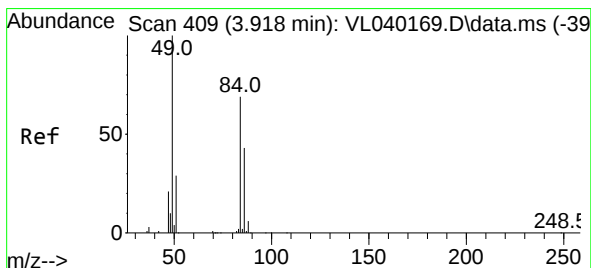
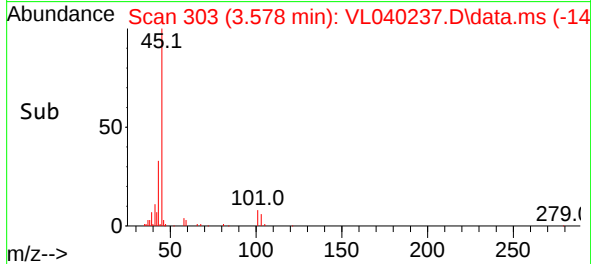
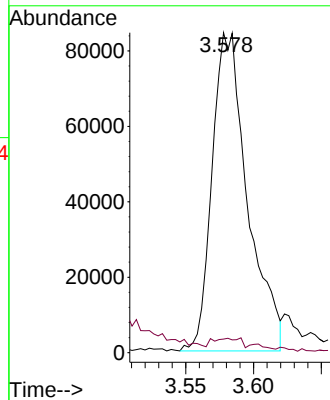
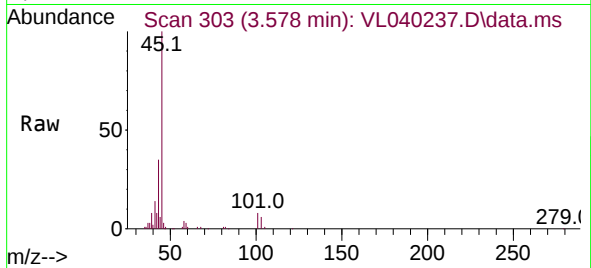
58 4.9 2.6 3.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/28/2023

Supervised By :Mahesh Dadoda 02/28/2023



#20

Methylene Chloride

Concen: 18.692 ppbv

RT: 3.931 min Scan# 413

Delta R.T. 0.010 min

Lab File: VL040237.D

Acq: 27 Feb 2023 15:54

Tgt Ion: 84 Resp: 1019332

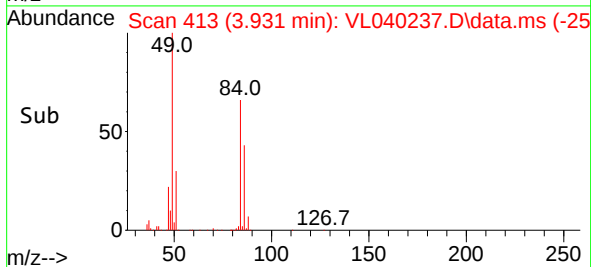
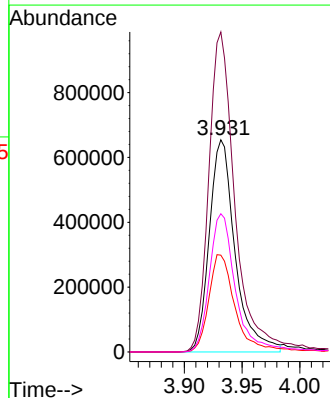
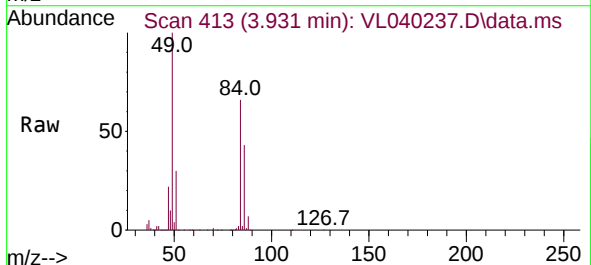
Ion Ratio Lower Upper

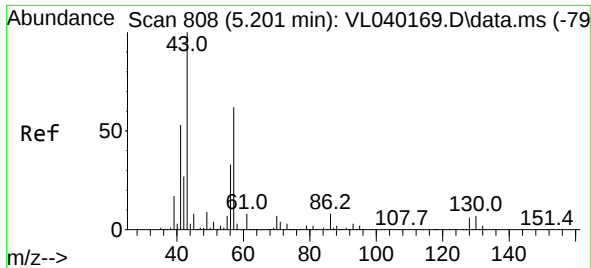
84 100

49 150.8 115.5 173.3

51 45.5 33.1 49.7

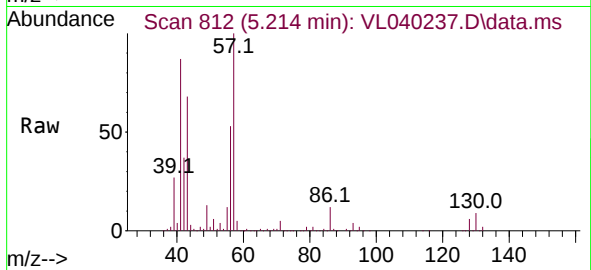
86 65.2 50.2 75.2





#26
Hexane
Concen: 16.562 ppbv
RT: 5.214 min Scan# 811
Delta R.T. 0.010 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

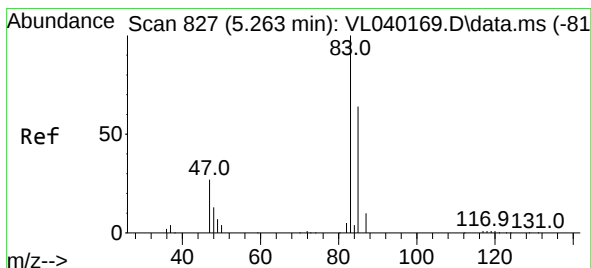
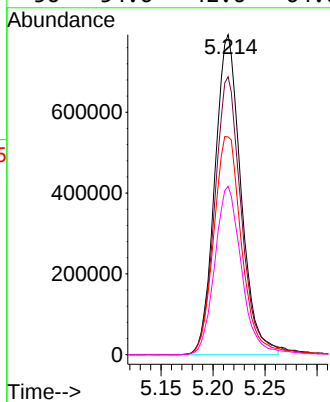
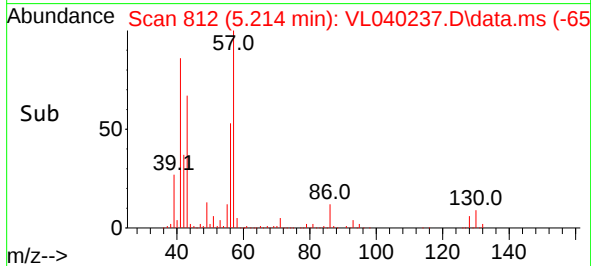
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENTDUP



Tgt Ion: 57 Resp: 138459
Ion Ratio Lower Upper
57 100
41 89.7 74.3 111.5
43 73.7 193.0 289.4
56 54.6 42.6 64.0

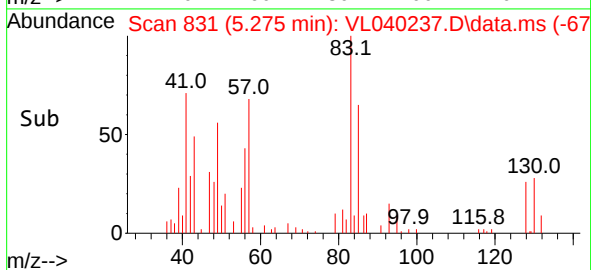
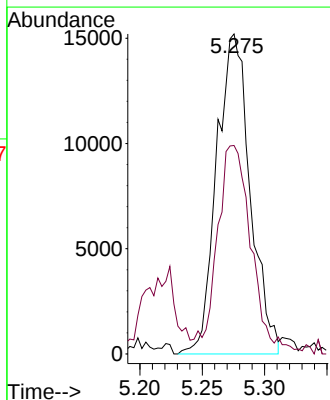
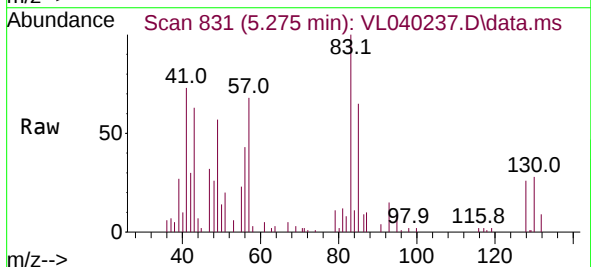
Manual Integrations
APPROVED

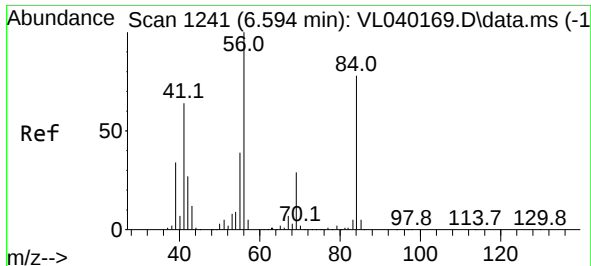
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#29
Chloroform
Concen: 0.198 ppbv
RT: 5.275 min Scan# 831
Delta R.T. 0.010 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

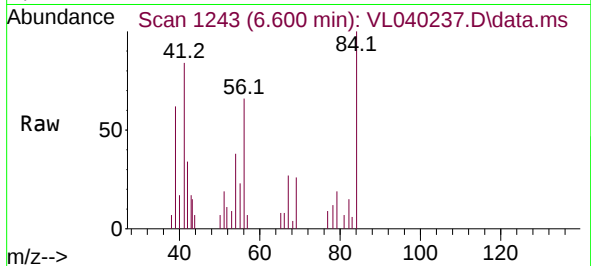
Tgt Ion: 83 Resp: 28476
Ion Ratio Lower Upper
83 100
85 59.8 51.5 77.3





#30
Cyclohexane
Concen: 0.133 ppbv m
RT: 6.600 min Scan# 1
Delta R.T. 0.007 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

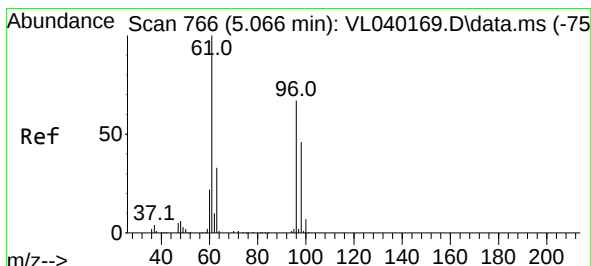
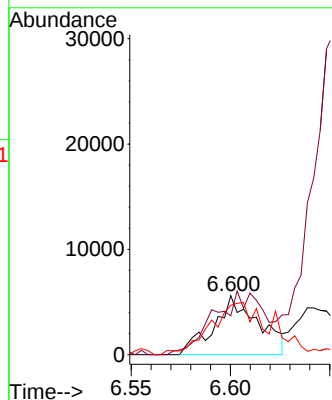
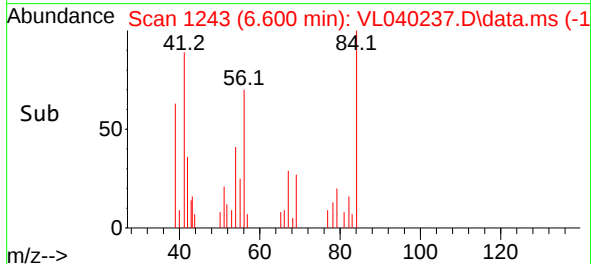
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENTDUP



Tgt Ion: 84 Resp: 869
Ion Ratio Lower Upper
84 100
56 0.0 109.9 164.9
41 131.7 67.8 101.6

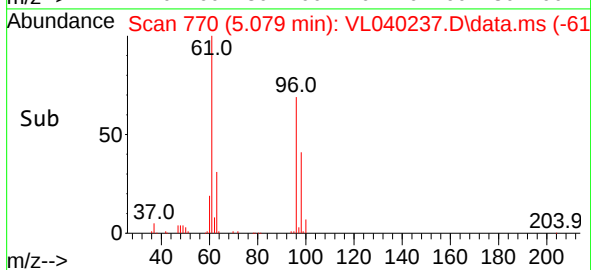
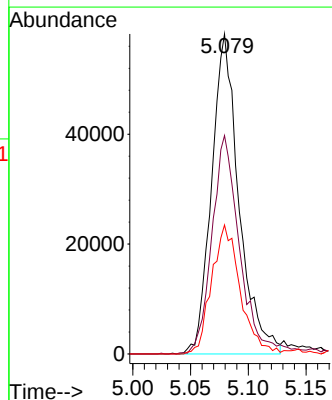
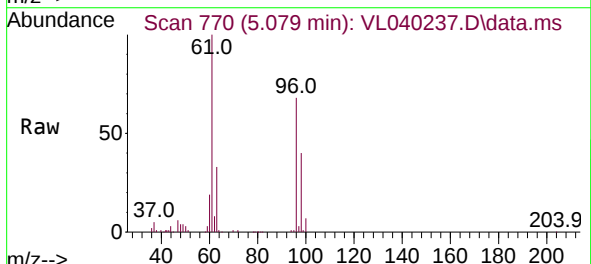
Manual Integrations
APPROVED

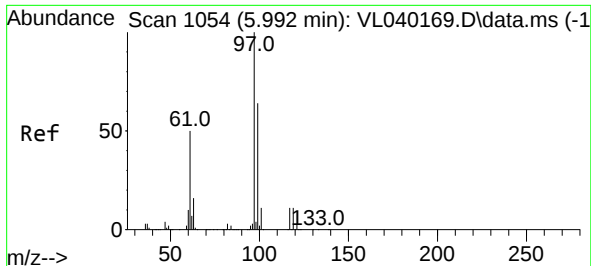
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#31
cis-1,2-Dichloroethene
Concen: 1.209 ppbv
RT: 5.079 min Scan# 770
Delta R.T. 0.010 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

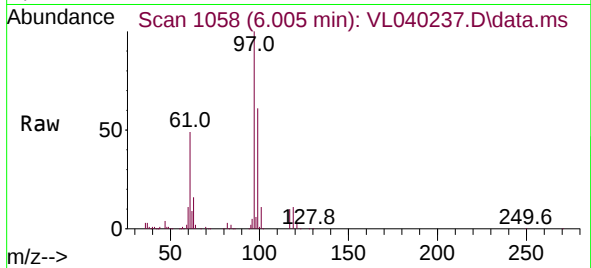
Tgt Ion: 61 Resp: 96044
Ion Ratio Lower Upper
61 100
96 67.9 53.7 80.5
98 40.3 36.4 54.6





#32
1,1,1-Trichloroethane
Concen: 1.274 ppbv
RT: 6.005 min Scan# 1054
Delta R.T. 0.010 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

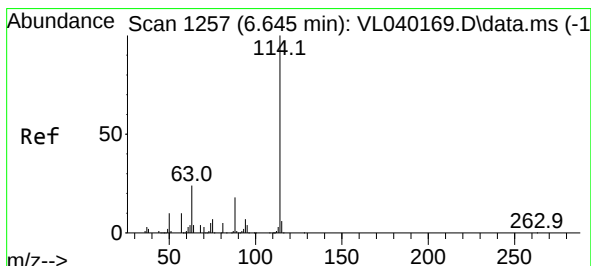
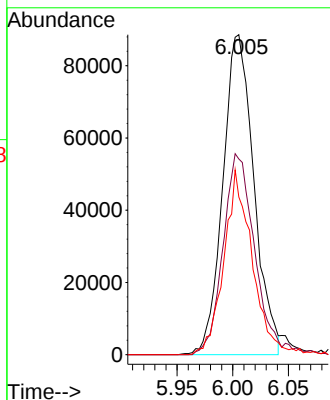
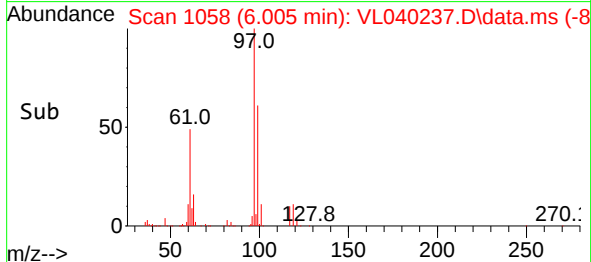
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENTDUP



Tgt Ion: 97 Resp: 171802
Ion Ratio Lower Upper
97 100
99 64.7 51.5 77.3
61 53.1 40.6 60.8

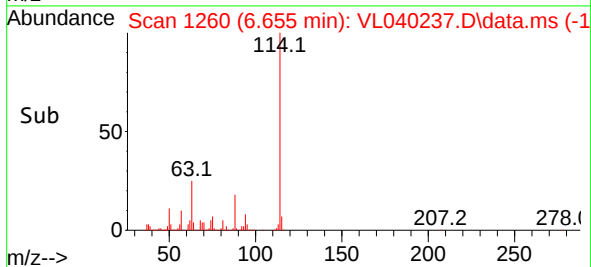
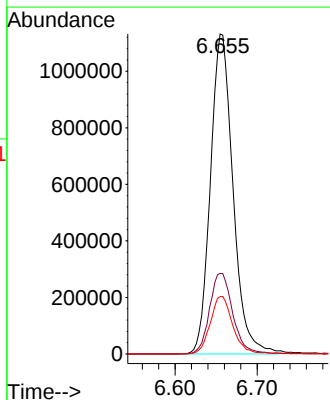
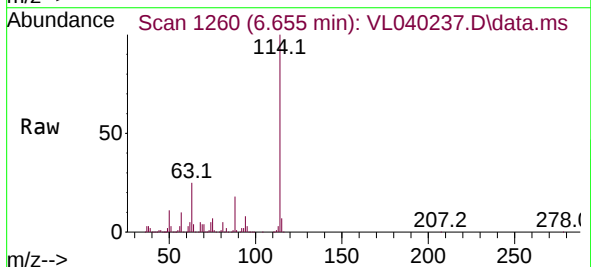
Manual Integrations
APPROVED

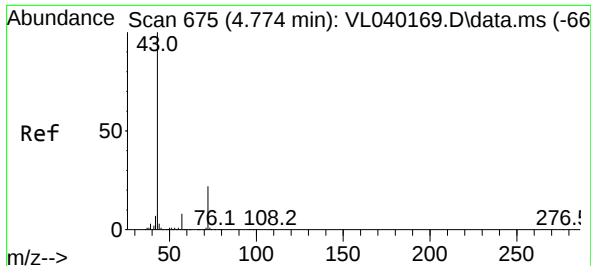
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. 0.007 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

Tgt Ion:114 Resp: 2163347
Ion Ratio Lower Upper
114 100
63 26.2 20.4 30.6
88 18.1 14.3 21.5





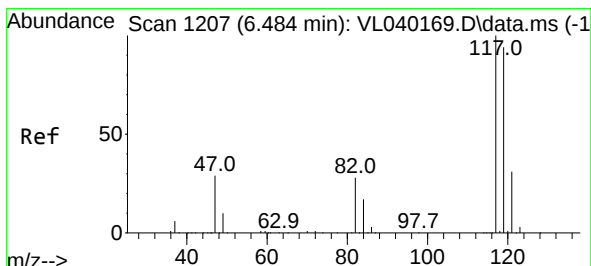
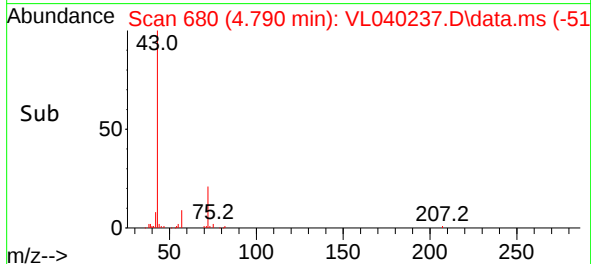
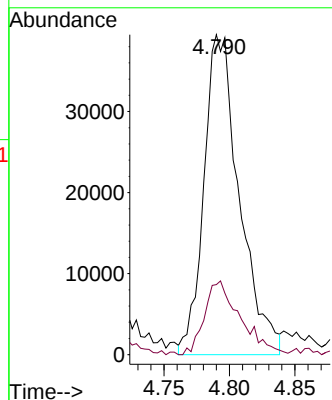
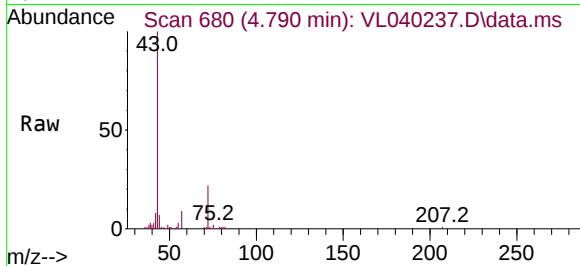
#34
2-Butanone
Concen: 0.698 ppbv m
RT: 4.790 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENTDUP

Tgt Ion: 43 Resp: 7450
Ion Ratio Lower Upper
43 100
72 23.4 17.8 26.8

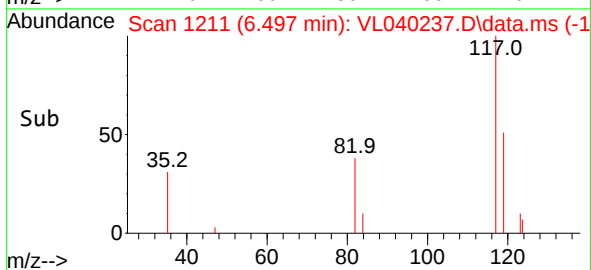
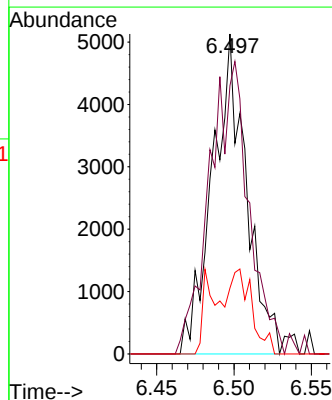
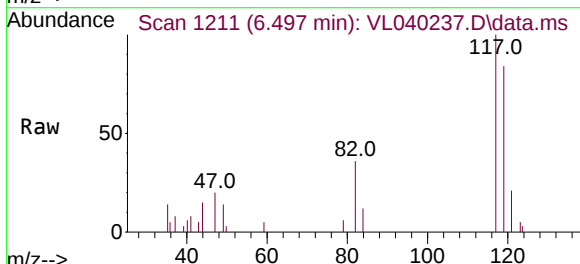
Manual Integrations
APPROVED

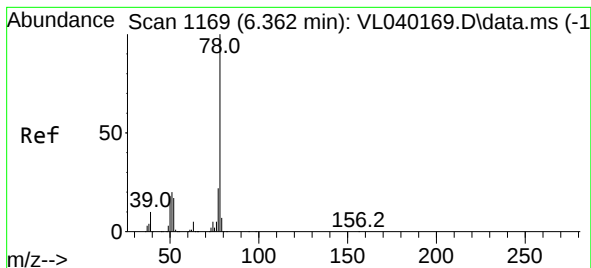
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 6.497 min Scan# 1211
Delta R.T. 0.010 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

Tgt Ion:117 Resp: 7741
Ion Ratio Lower Upper
117 100
119 83.9 75.0 112.6
121 20.6 25.0 37.4#





#36

Benzene

Concen: 0.300 ppbv

RT: 6.375 min Scan# 1173

Delta R.T. 0.010 min

Lab File: VL040237.D

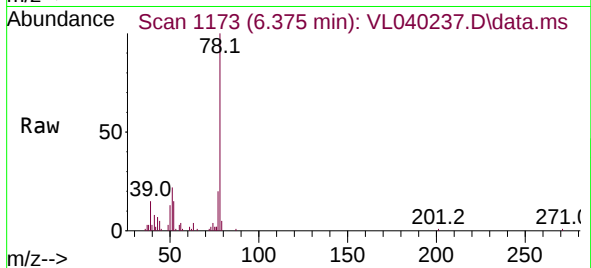
Acq: 27 Feb 2023 15:54

Instrument :

MSVOA_L

ClientSampleId :

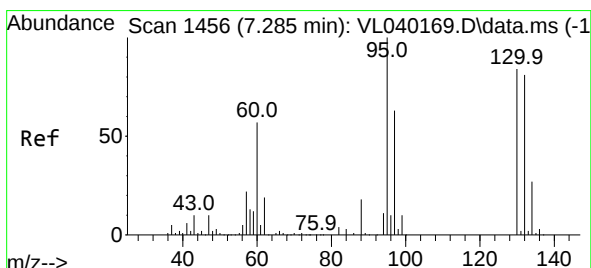
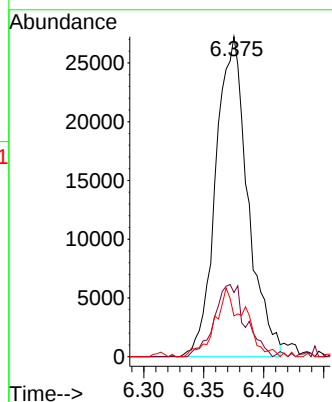
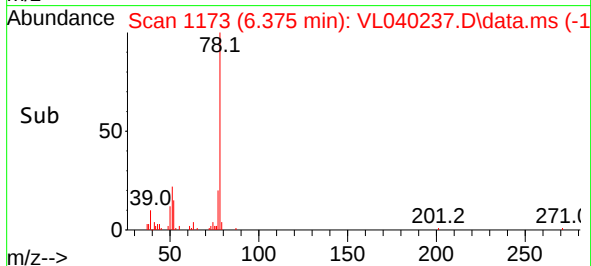
02212023-EFFLUENTDUP



Tgt Ion: 78	Resp: 5055
Ion Ratio	Lower Upper
78 100	
77 20.0	17.5 26.3
50 12.8	14.6 22.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#38

Trichloroethene

Concen: 4.843 ppbv

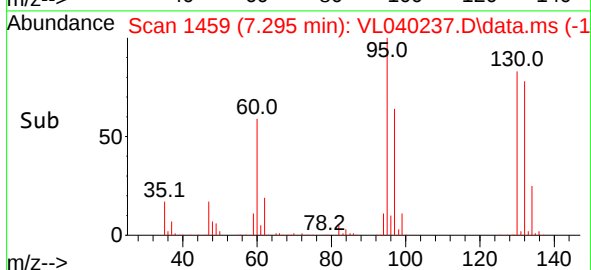
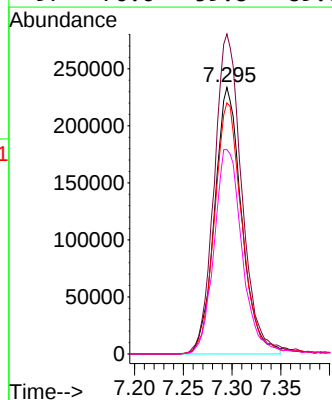
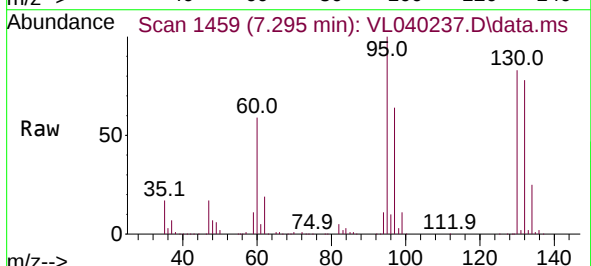
RT: 7.295 min Scan# 1459

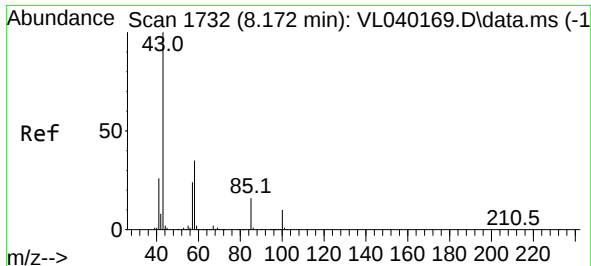
Delta R.T. 0.007 min

Lab File: VL040237.D

Acq: 27 Feb 2023 15:54

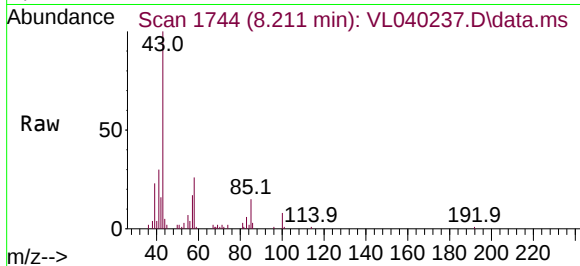
Tgt Ion:130	Resp: 449322
Ion Ratio	Lower Upper
130 100	
95 120.0	94.7 142.1
132 94.2	76.4 114.6
97 76.6	59.8 89.6





#50
4-Methyl-2-Pentanone
Concen: 0.261 ppbv m
RT: 8.211 min Scan# 1732
Delta R.T. 0.036 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

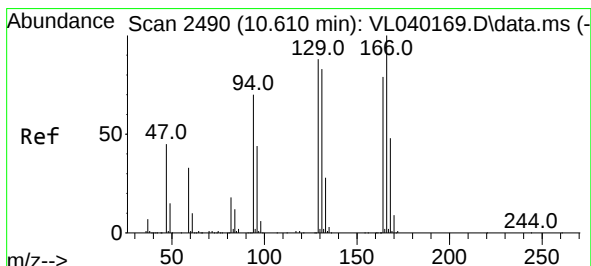
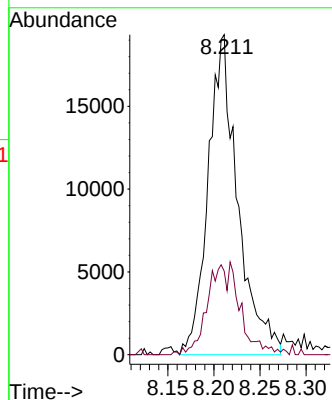
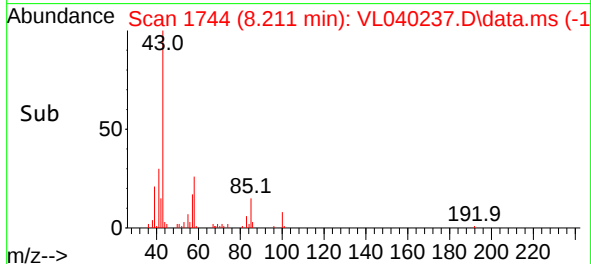
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENTDUP



Tgt Ion: 43 Resp: 43220
Ion Ratio Lower Upper
43 100
58 0.0 29.2 43.8

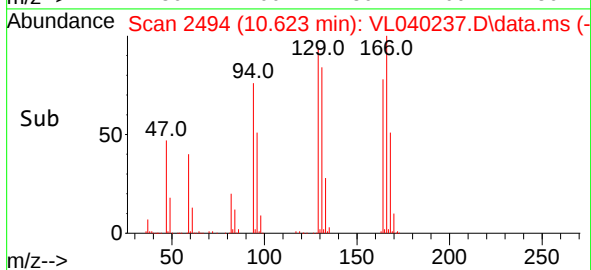
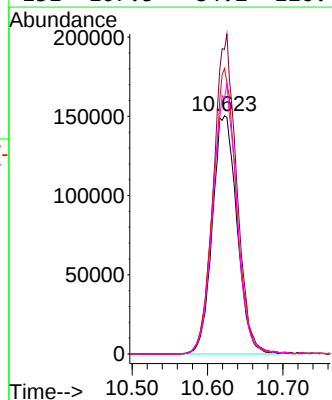
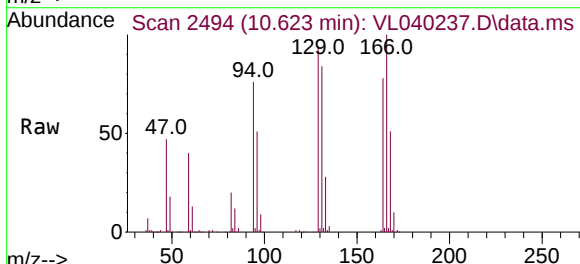
Manual Integrations
APPROVED

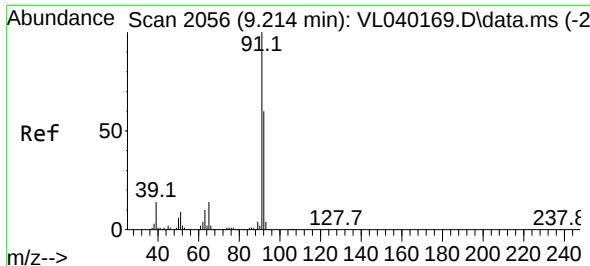
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#52
Tetrachloroethene
Concen: 6.472 ppbv m
RT: 10.623 min Scan# 2494
Delta R.T. 0.003 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

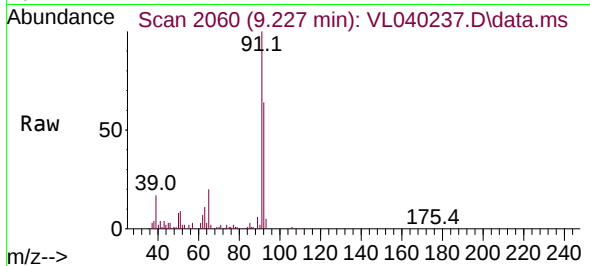
Tgt Ion:164 Resp: 340242
Ion Ratio Lower Upper
164 100
166 127.9 101.5 152.3
129 119.9 89.0 133.4
131 107.5 84.2 126.4





#53
Toluene
Concen: 0.578 ppbv m
RT: 9.227 min Scan# 2056
Delta R.T. 0.010 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

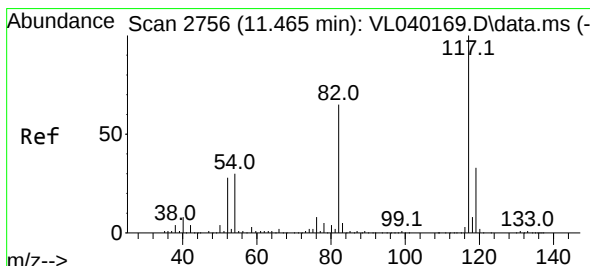
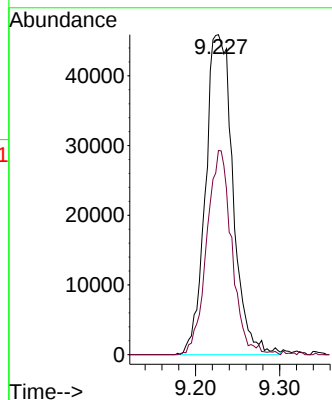
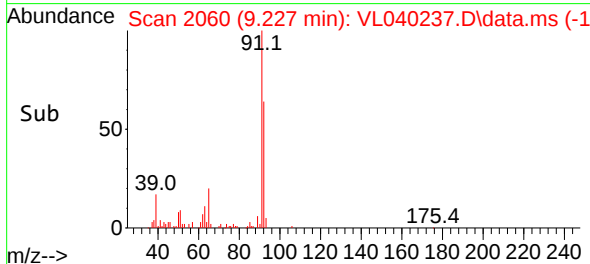
Instrument :
MSVOA_L
ClientSampleId :
02212023-EFFLUENTDUP



Tgt Ion: 91 Resp: 104154
Ion Ratio Lower Upper
91 100
92 58.8 48.9 73.3

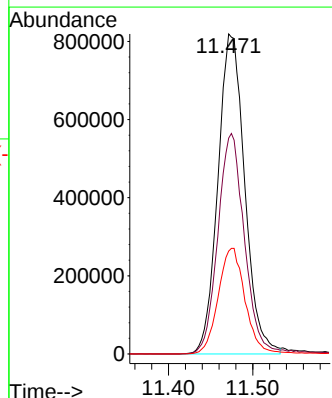
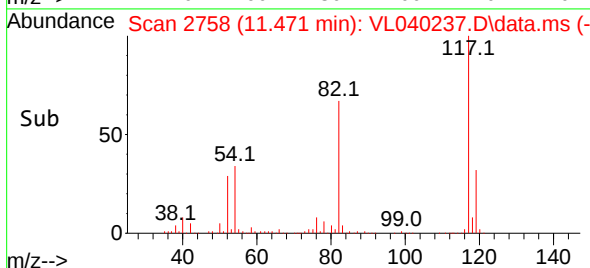
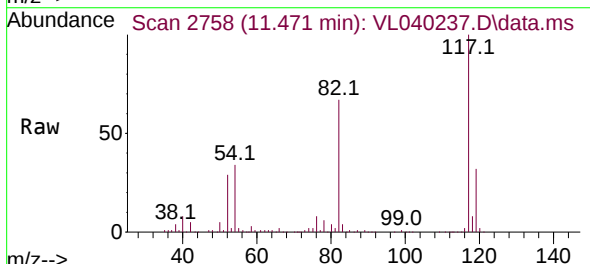
Manual Integrations
APPROVED

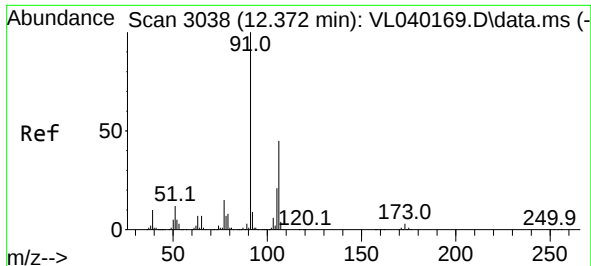
Reviewed By :Semsettin Yesilyurt 02/28/2023
Supervised By :Mahesh Dadoda 02/28/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. 0.003 min
Lab File: VL040237.D
Acq: 27 Feb 2023 15:54

Tgt Ion:117 Resp: 1808997
Ion Ratio Lower Upper
117 100
82 69.4 53.3 79.9
119 33.4 24.6 37.0





#59

m/p-Xylene

Concen: 0.208 ppbv m

RT: 12.356 min Scan# 3033

Delta R.T. -0.019 min

Lab File: VL040237.D

Acq: 27 Feb 2023 15:54

Instrument :

MSVOA_L

ClientSampleId :

02212023-EFFLUENTDUP

Tgt Ion: 91 Resp: 40510

Ion Ratio Lower Upper

91 100

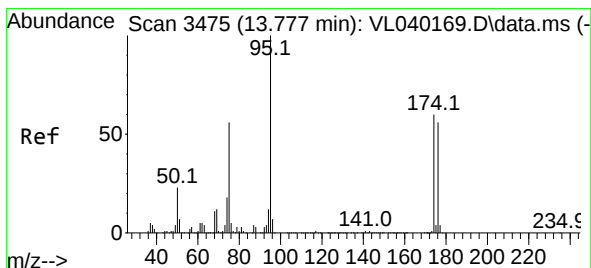
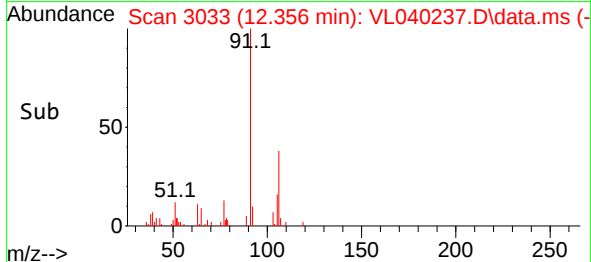
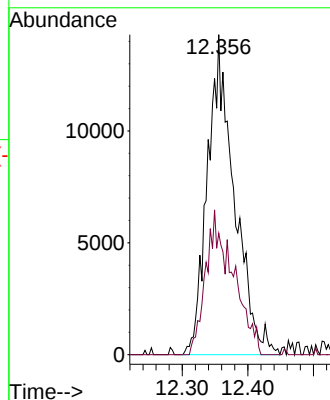
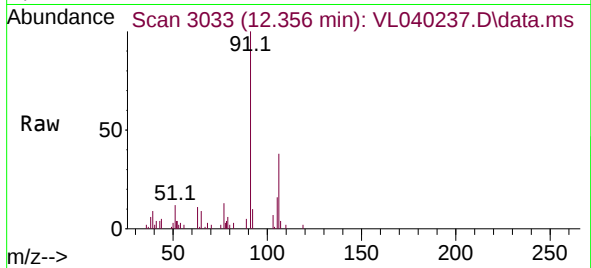
106 0.0 34.6 51.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/28/2023

Supervised By :Mahesh Dadoda 02/28/2023



#68

1-Bromo-4-Fluorobenzene

Concen: 9.603 ppbv

RT: 13.783 min Scan# 3477

Delta R.T. 0.007 min

Lab File: VL040237.D

Acq: 27 Feb 2023 15:54

Tgt Ion: 95 Resp: 1428411

Ion Ratio Lower Upper

95 100

174 57.9 48.2 72.2

175 4.2 3.4 5.2

