

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080923\
 Data File : VL040608.D
 Acq On : 9 Aug 2023 16:35
 Operator : SY/MD
 Sample : 03907-03 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/10/2023
 Supervised By :Mahesh Dadoda 08/10/2023

Quant Time: Aug 10 01:29:36 2023

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 10 2023

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

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	1026606	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2537380	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2364421	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1949811	10.420	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.719	85	26195m	0.128	ppbv	
3) Chlorodifluoromethane	2.661	51	16366m	0.101	ppbv	
4) Chloromethane	2.800	50	17395	0.270	ppbv	93
9) Propene	2.681	41	2463700	44.226	ppbv	98
10) Heptane	7.584	43	235809	1.917	ppbv	98
11) Trichlorofluoromethane	3.555	101	28192	0.170	ppbv	89
13) Ethanol	3.231	45	255442	21.075	ppbv	100
15) Acetone	3.459	43	2401570m	20.323	ppbv	
17) tert-Butyl alcohol	3.874	59	366231	2.996	ppbv	98
20) Methylene Chloride	3.928	84	5990896	119.184	ppbv	89
26) Hexane	5.214	57	6423270	61.458	ppbv #	41
27) Carbon Disulfide	4.118	76	422163	3.434	ppbv	98
29) Chloroform	5.276	83	39940m	0.230	ppbv	
30) Cyclohexane	6.607	84	44454	0.511	ppbv #	84
34) 2-Butanone	4.784	43	636260	5.075	ppbv	98
35) Carbon Tetrachloride	6.494	117	7163m	0.047	ppbv	
36) Benzene	6.375	78	301703	1.478	ppbv	98
38) Trichloroethene	7.295	130	509013	6.591	ppbv	94
44) 2,2,4-Trimethylpentane	7.333	57	146461	0.446	ppbv #	60
50) 4-Methyl-2-Pentanone	8.192	43	697430	3.828	ppbv	96
51) 2-Hexanone	9.562	43	164538m	1.277	ppbv	
52) Tetrachloroethene	10.639	164	9807308	148.334	ppbv	91
53) Toluene	9.230	91	413077	1.863	ppbv	99
58) Ethyl Benzene	12.102	91	88901m	0.300	ppbv	
59) m/p-Xylene	12.352	91	271502	1.025	ppbv	100
60) o-Xylene	13.069	91	143577	0.569	ppbv	99
73) 1,3,5-Trimethylbenzene	15.368	105	41922	0.161	ppbv	93
74) 1,2,4-Trimethylbenzene	16.121	105	147227	0.484	ppbv #	64

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

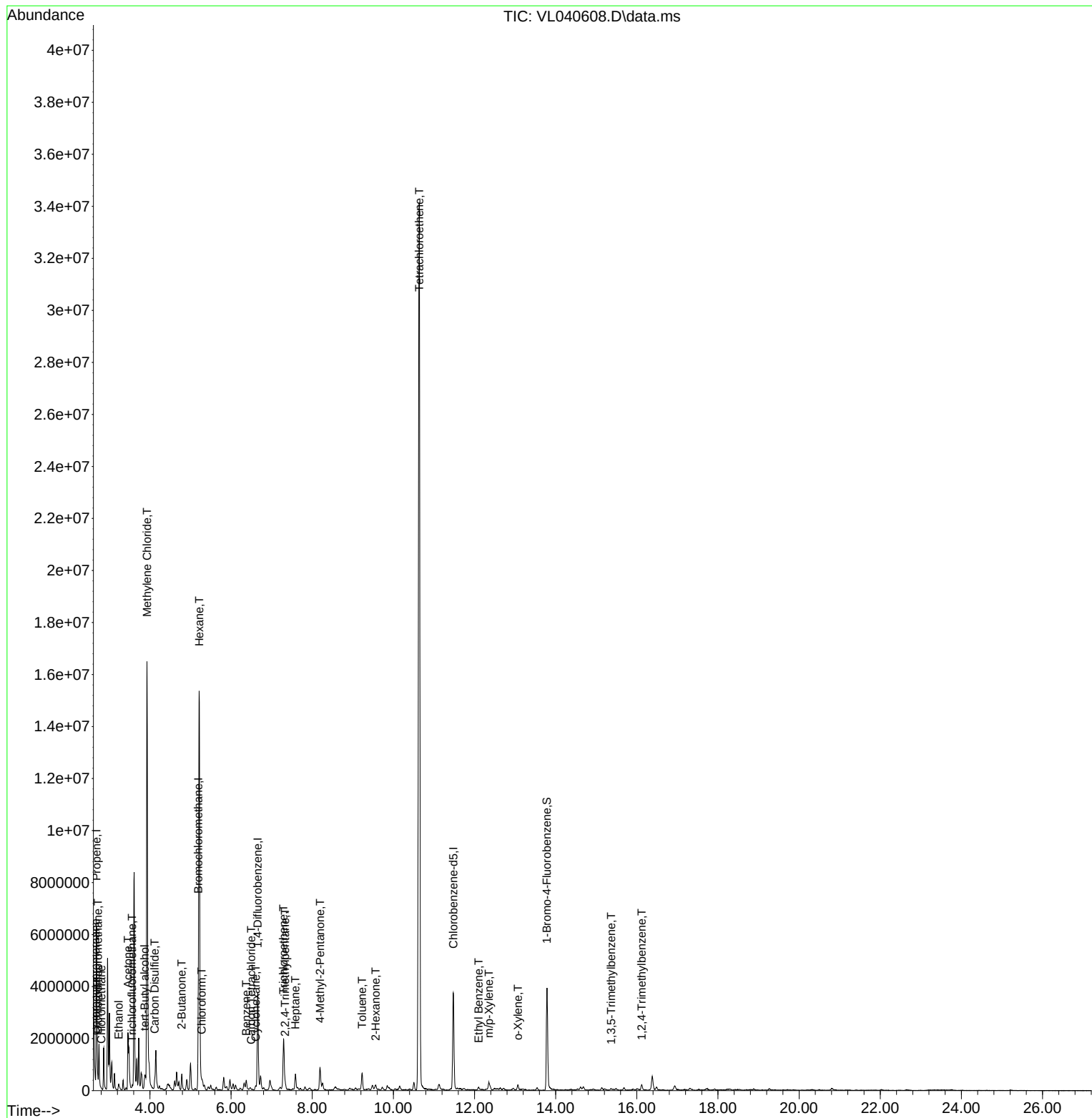
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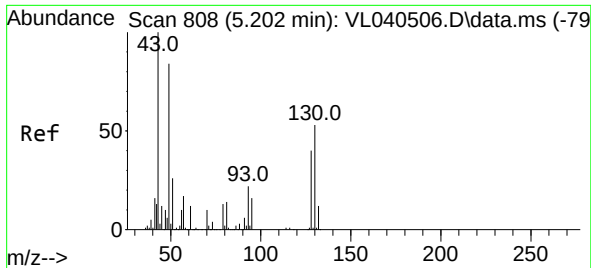
Instrument :
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ClientSampleId :
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Quant Time: Aug 10 01:29:36 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Jul 10 16:32:00 2023
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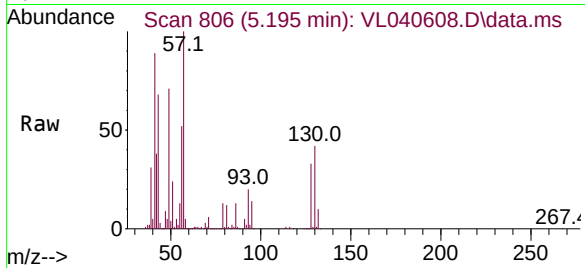
Reviewed By : Semsettin Yesilyurt 08/10/2023
Supervised By : Mahesh Dadoda 08/10/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

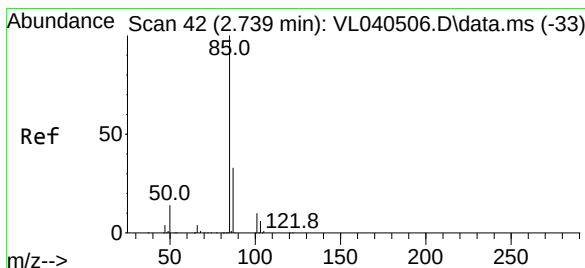
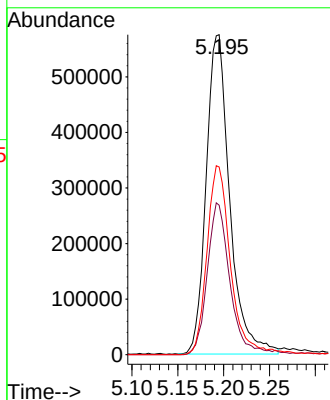
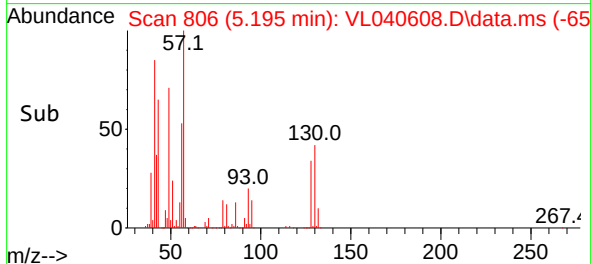
Instrument :
MSVOA_L
ClientSampleId :
SV-2



Tgt Ion: 49 Resp: 1026600
Ion Ratio Lower Upper
49 100
128 46.0 25.1 75.4
130 59.8 31.6 94.7

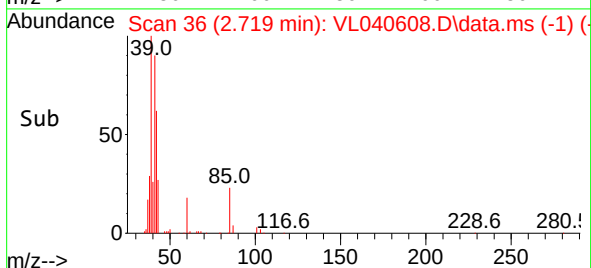
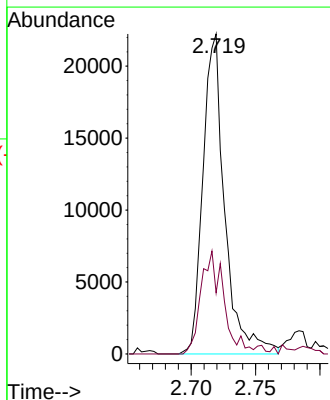
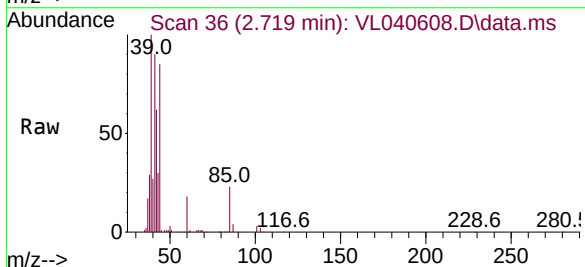
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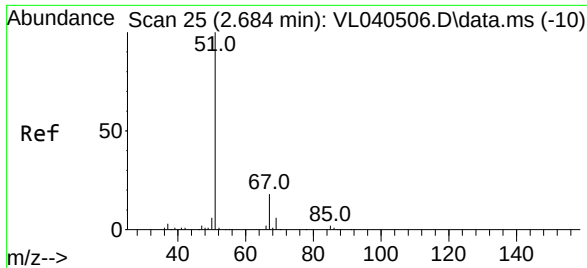
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#2
Dichlorodifluoromethane
Concen: 0.128 ppbv m
RT: 2.719 min Scan# 36
Delta R.T. -0.019 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

Tgt Ion: 85 Resp: 26195
Ion Ratio Lower Upper
85 100
87 19.1 26.8 40.2#





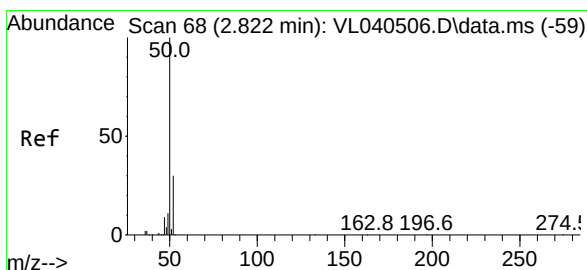
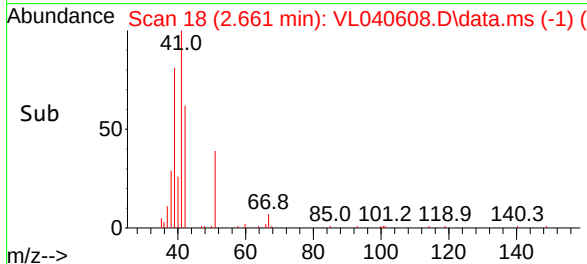
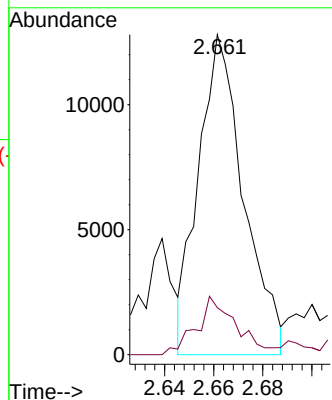
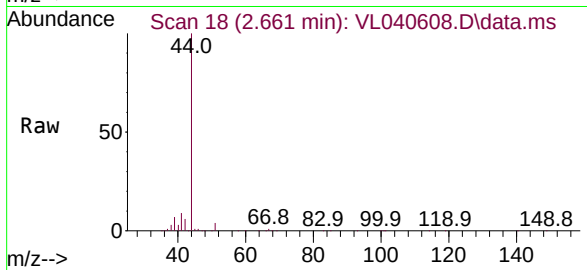
#3
Chlorodifluoromethane
Concen: 0.101 ppbv
RT: 2.661 min Scan# 11
Delta R.T. -0.022 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

Instrument :
MSVOA_L
ClientSampleId :
SV-2

Tgt Ion: 51 Resp: 1636
Ion Ratio Lower Upper
51 100
67 18.2 14.6 21.8

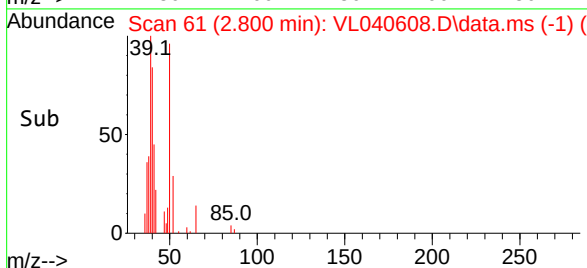
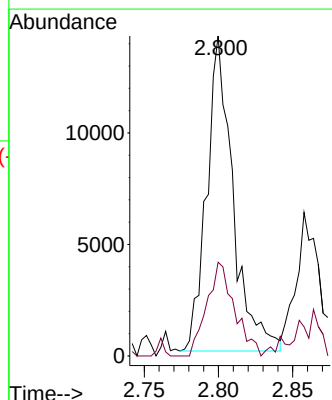
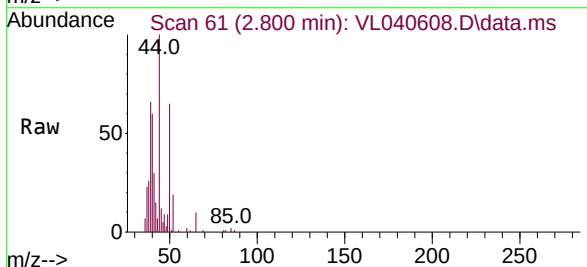
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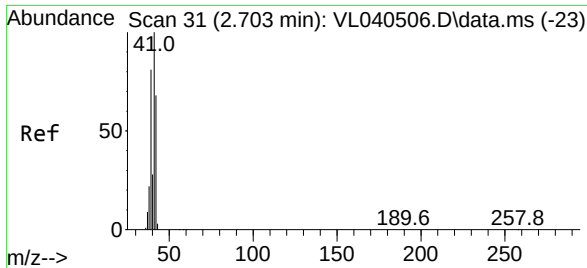
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#4
Chloromethane
Concen: 0.270 ppbv
RT: 2.800 min Scan# 61
Delta R.T. -0.022 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

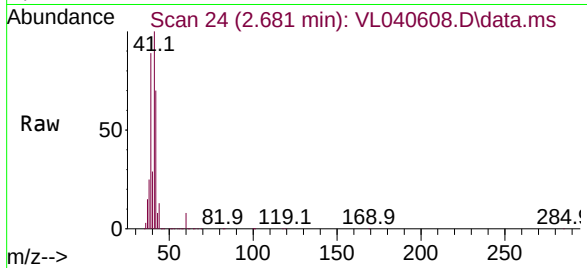
Tgt Ion: 50 Resp: 17395
Ion Ratio Lower Upper
50 100
52 26.6 24.4 36.6





#9
 Propene
 Concen: 44.226 ppbv
 RT: 2.681 min Scan# 24
 Delta R.T. -0.022 min
 Lab File: VL040608.D
 Acq: 9 Aug 2023 16:35

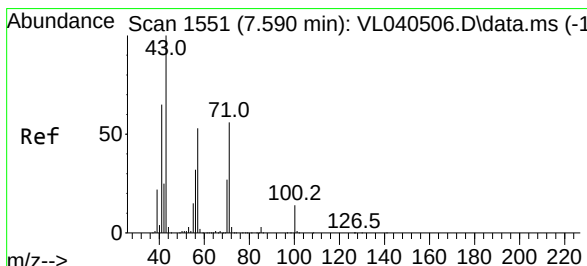
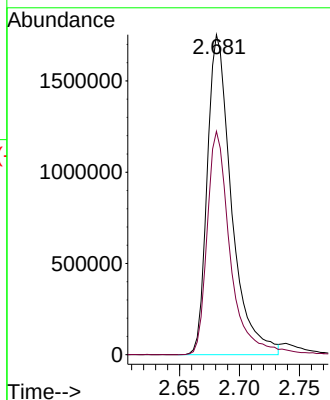
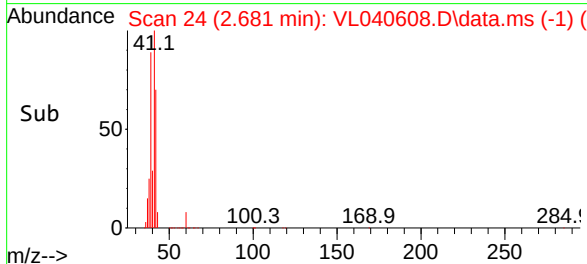
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2



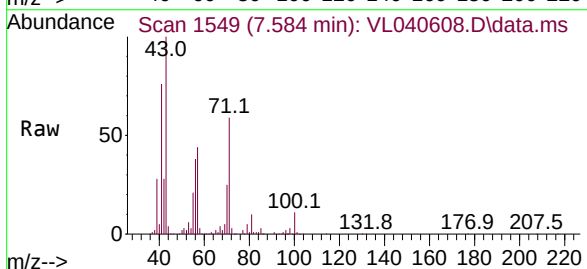
Tgt Ion: 41 Resp: 2463700
 Ion Ratio Lower Upper
 41 100
 42 67.2 55.0 82.6

Manual Integrations
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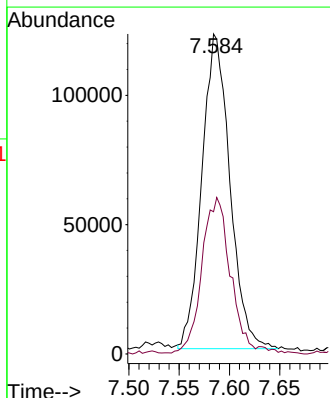
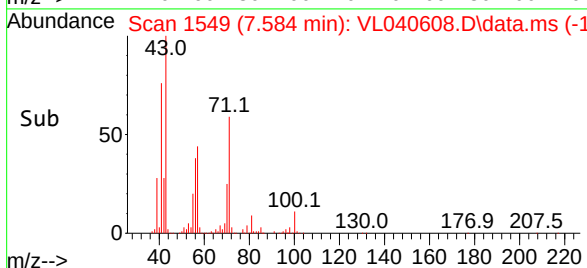
Reviewed By :Semsettin Yesilyurt 08/10/2023
 Supervised By :Mahesh Dadoda 08/10/2023

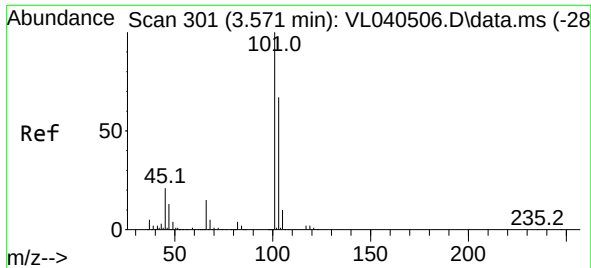


#10
 Heptane
 Concen: 1.917 ppbv
 RT: 7.584 min Scan# 1549
 Delta R.T. -0.006 min
 Lab File: VL040608.D
 Acq: 9 Aug 2023 16:35



Tgt Ion: 43 Resp: 235809
 Ion Ratio Lower Upper
 43 100
 57 51.9 42.5 63.7





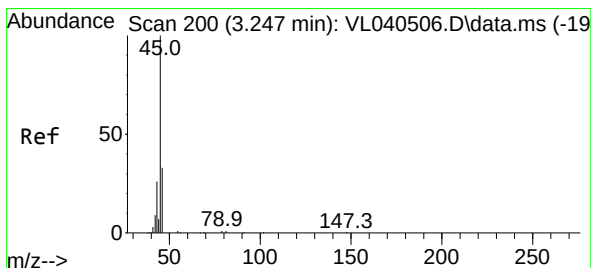
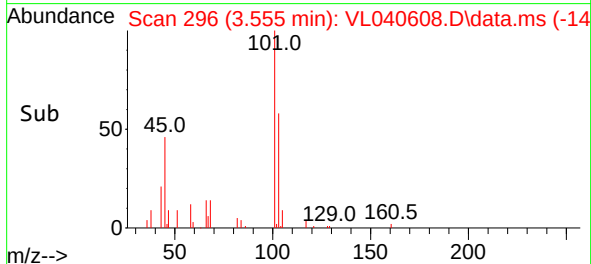
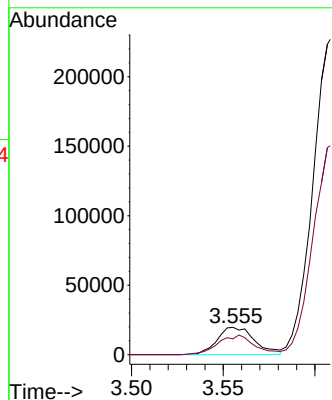
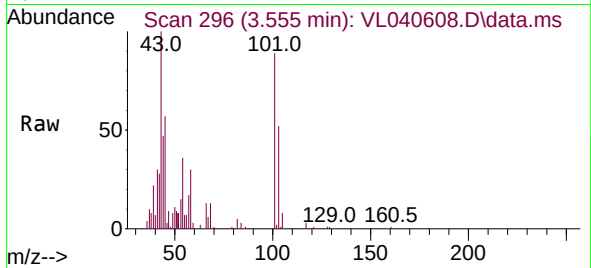
#11
Trichlorofluoromethane
Concen: 0.170 ppbv
RT: 3.555 min Scan# 296
Delta R.T. -0.016 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

Instrument :
MSVOA_L
ClientSampleId :
SV-2

Tgt Ion:101 Resp: 28192
Ion Ratio Lower Upper
101 100
103 58.3 53.4 80.0

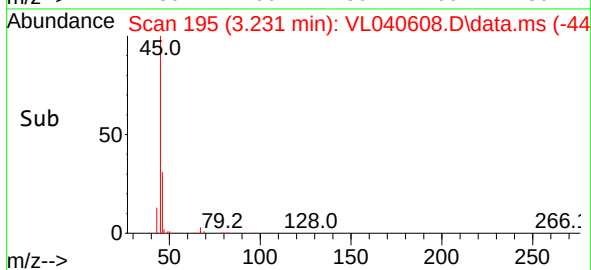
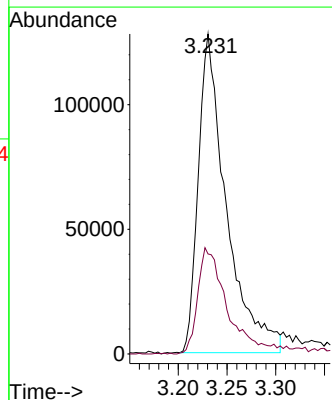
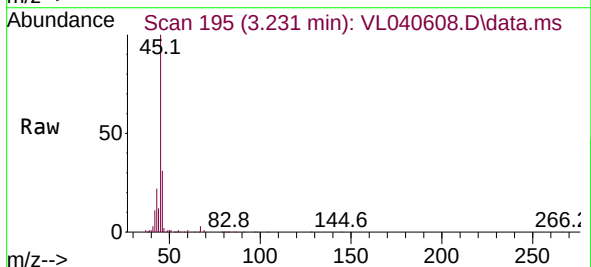
Manual Integrations
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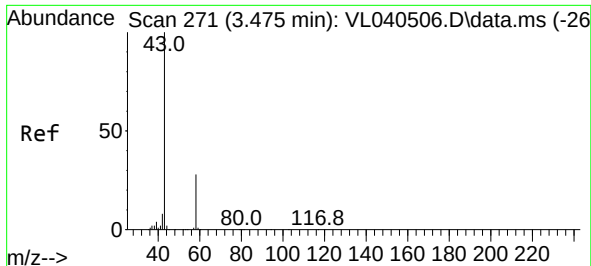
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#13
Ethanol
Concen: 21.075 ppbv
RT: 3.231 min Scan# 195
Delta R.T. -0.016 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

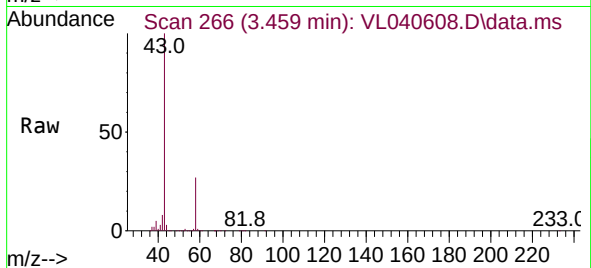
Tgt Ion: 45 Resp: 255442
Ion Ratio Lower Upper
45 100
46 38.1 15.3 61.1





#15
Acetone
Concen: 20.323 ppbv m
RT: 3.459 min Scan# 20
Delta R.T. -0.016 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

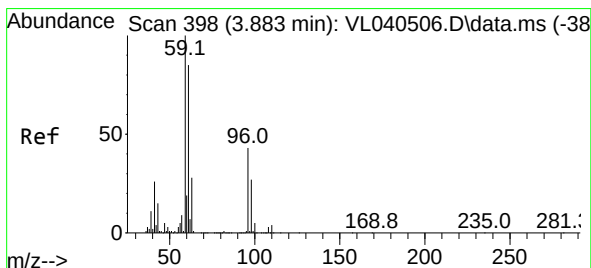
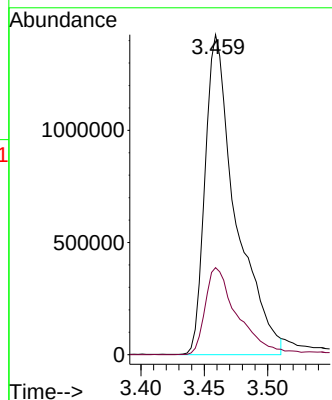
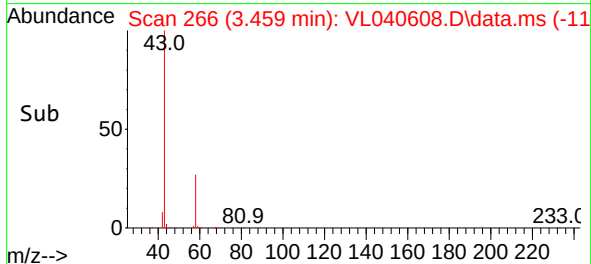
Instrument :
MSVOA_L
ClientSampleId :
SV-2



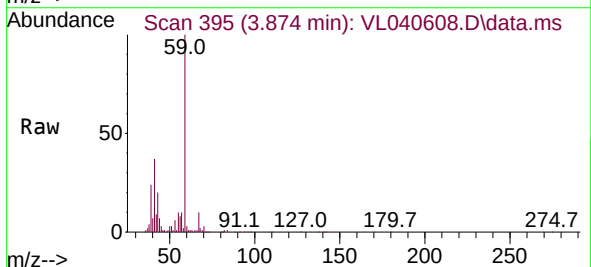
Tgt Ion: 43 Resp: 2401570
Ion Ratio Lower Upper
43 100
58 30.2 22.9 34.3

Manual Integrations
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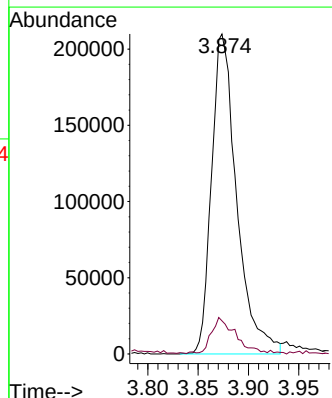
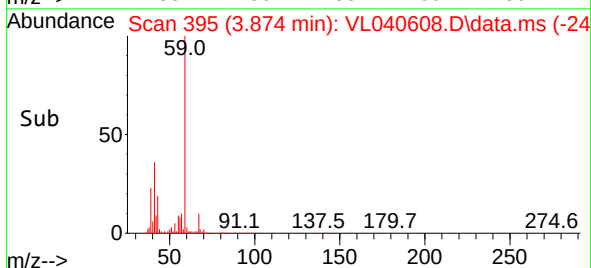
Reviewed By :Semsettin Yesilyurt 08/10/2023
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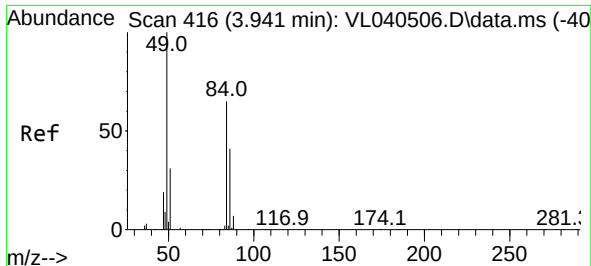


#17
tert-Butyl alcohol
Concen: 2.996 ppbv
RT: 3.874 min Scan# 395
Delta R.T. -0.010 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35



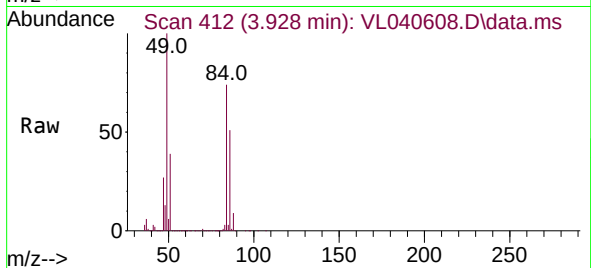
Tgt Ion: 59 Resp: 366231
Ion Ratio Lower Upper
59 100
57 11.6 8.7 13.1





#20
Methylene Chloride
Concen: 119.184 ppbv
RT: 3.928 min Scan# 416
Delta R.T. -0.013 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

Instrument :
MSVOA_L
ClientSampleId :
SV-2

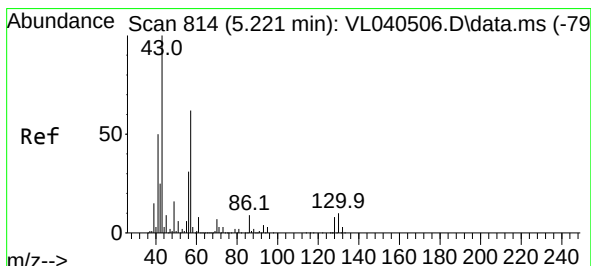
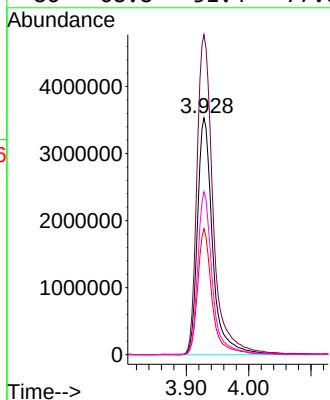
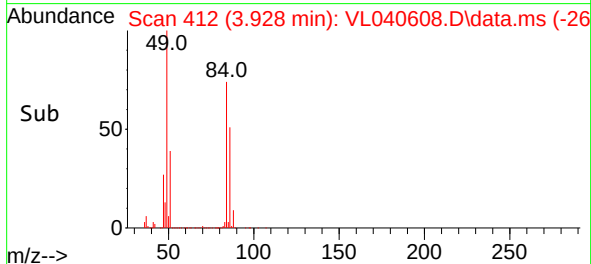


Tgt Ion: 84 Resp: 5990890

Ion	Ratio	Lower	Upper
84	100		
49	135.2	123.4	185.2
51	53.0	38.3	57.5
86	68.8	51.4	77.0

Manual Integrations
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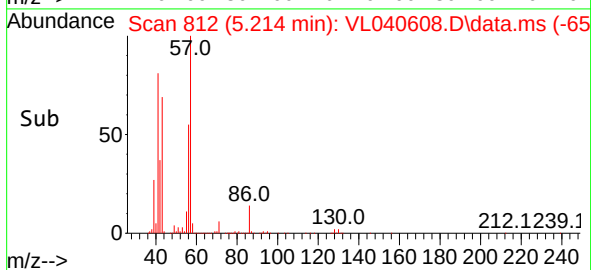
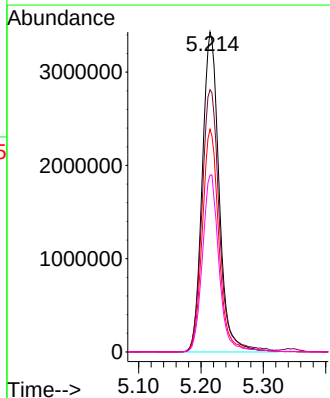
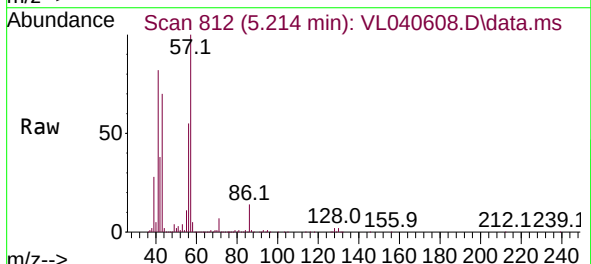
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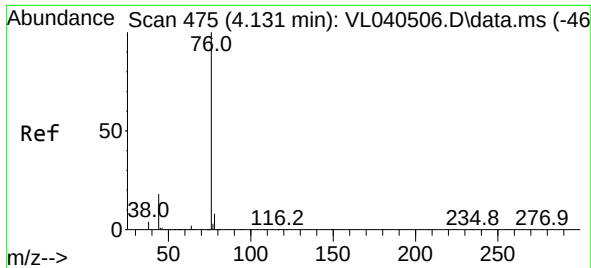


#26
Hexane
Concen: 61.458 ppbv
RT: 5.214 min Scan# 812
Delta R.T. -0.006 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

Tgt Ion: 57 Resp: 6423270

Ion	Ratio	Lower	Upper
57	100		
41	86.2	69.5	104.3
43	68.9	177.1	265.7#
56	55.0	42.3	63.5





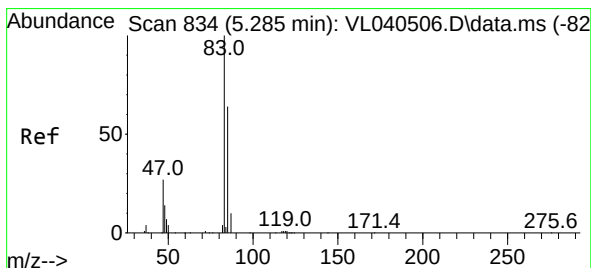
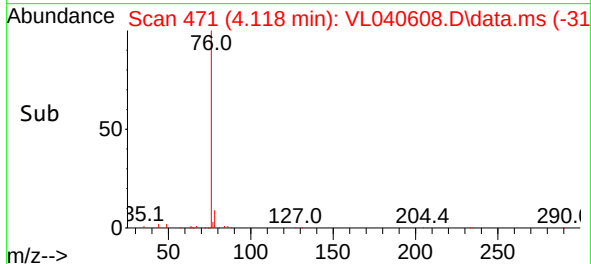
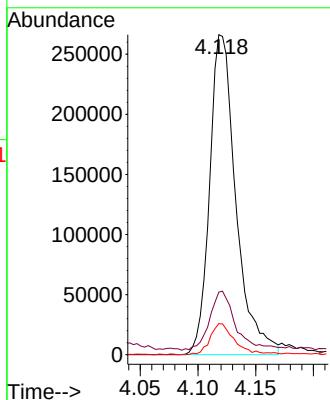
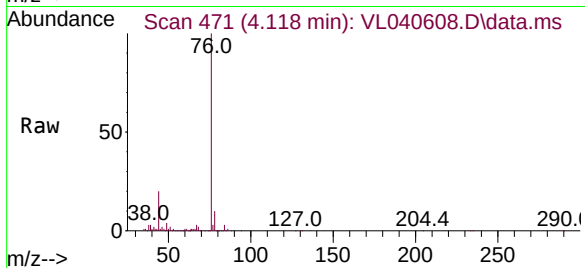
#27
Carbon Disulfide
Concen: 3.434 ppbv
RT: 4.118 min Scan# 411
Delta R.T. -0.013 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

Instrument :
MSVOA_L
ClientSampleId :
SV-2

Tgt Ion: 76 Resp: 42216
Ion Ratio Lower Upper
76 100
44 18.0 15.1 22.7
78 9.8 7.5 11.3

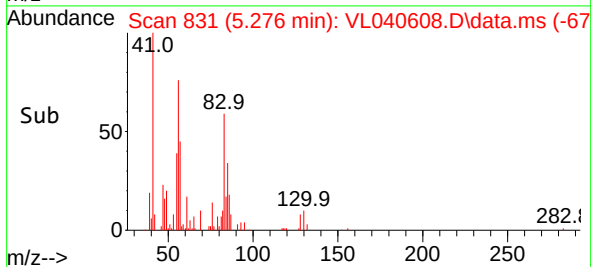
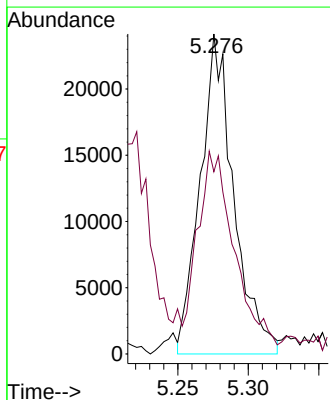
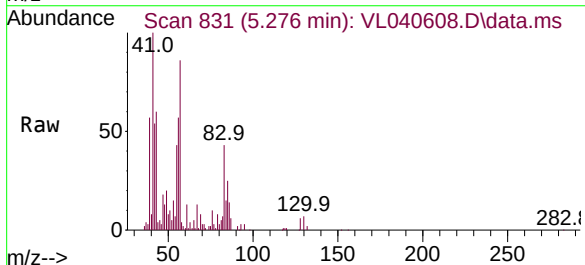
Manual Integrations
APPROVED

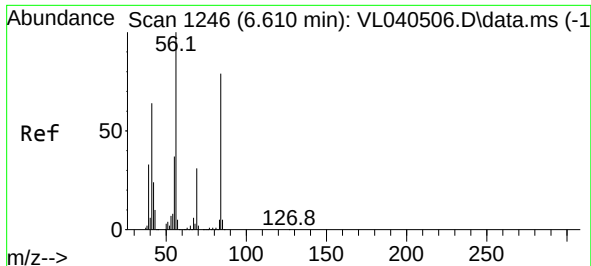
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#29
Chloroform
Concen: 0.230 ppbv m
RT: 5.276 min Scan# 831
Delta R.T. -0.010 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

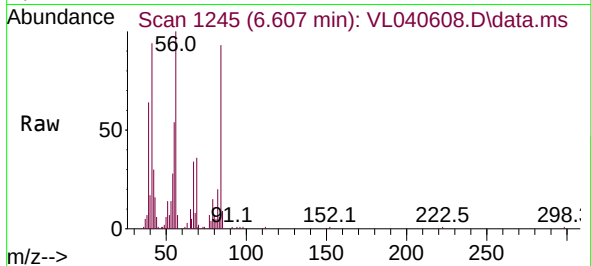
Tgt Ion: 83 Resp: 39940
Ion Ratio Lower Upper
83 100
85 57.0 51.1 76.7





#30
Cyclohexane
Concen: 0.511 ppbv
RT: 6.607 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

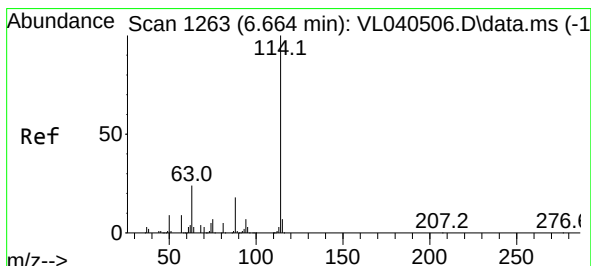
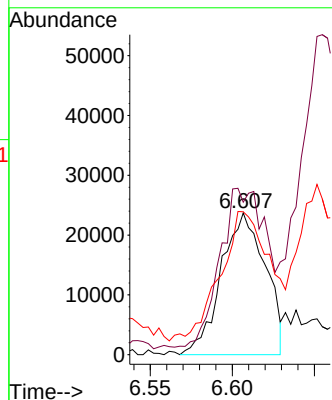
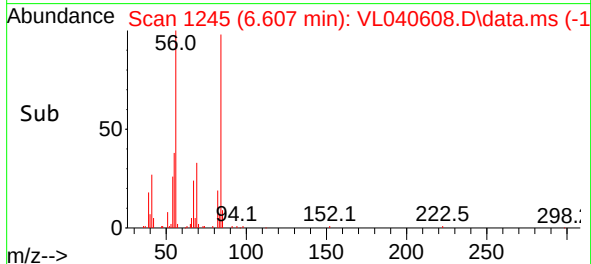
Instrument :
MSVOA_L
ClientSampleId :
SV-2



Tgt Ion: 84 Resp: 44454
Ion Ratio Lower Upper
84 100
56 128.9 108.7 163.1
41 109.7 64.5 96.7

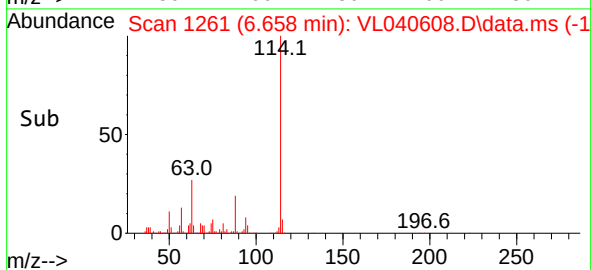
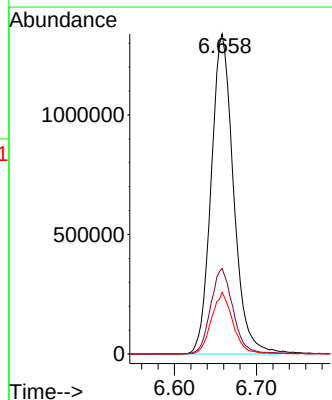
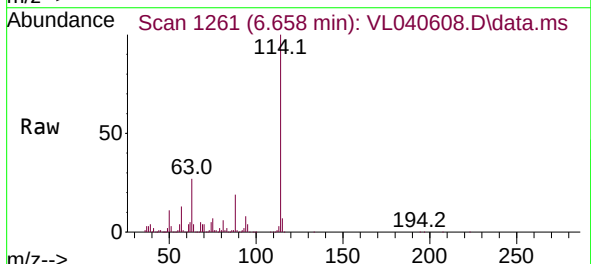
Manual Integrations
APPROVED

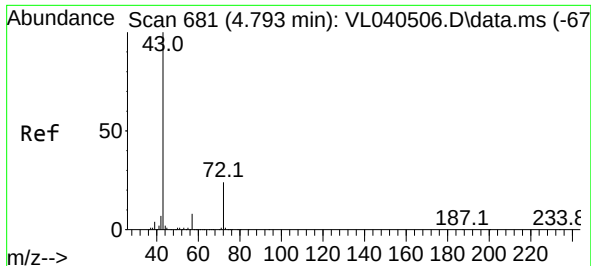
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.006 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

Tgt Ion:114 Resp: 2537380
Ion Ratio Lower Upper
114 100
63 27.2 19.6 29.4
88 18.5 14.2 21.2





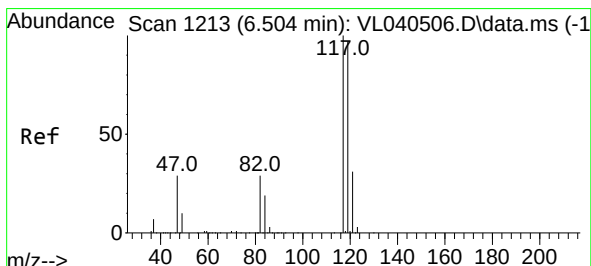
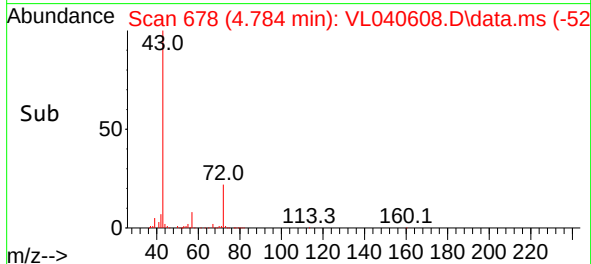
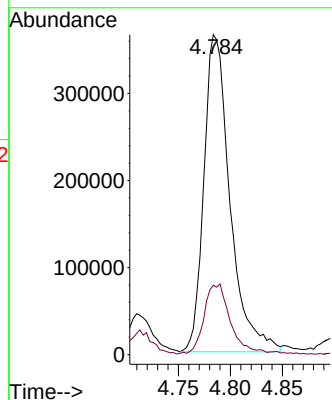
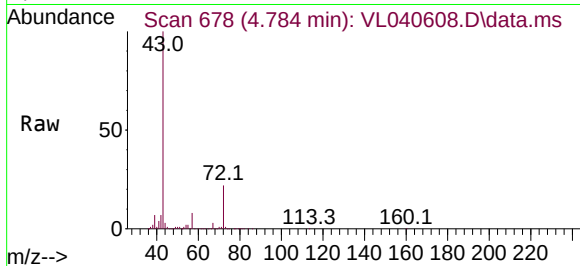
#34
2-Butanone
Concen: 5.075 ppbv
RT: 4.784 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

Instrument :
MSVOA_L
ClientSampleId :
SV-2

Tgt Ion: 43 Resp: 636260
Ion Ratio Lower Upper
43 100
72 23.1 19.1 28.7

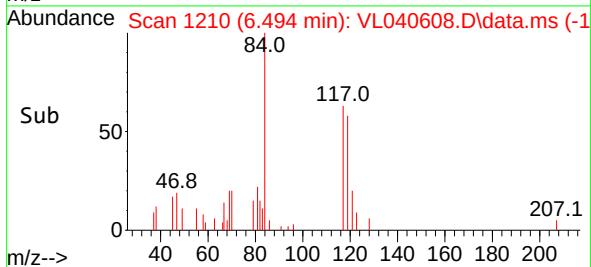
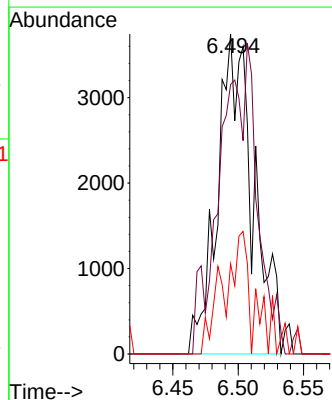
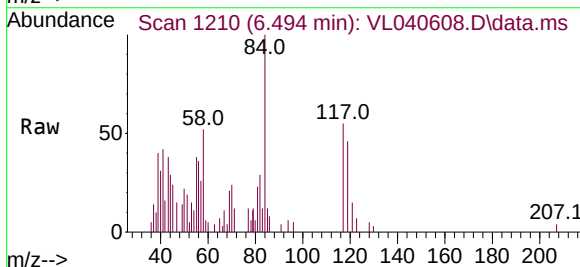
Manual Integrations
APPROVED

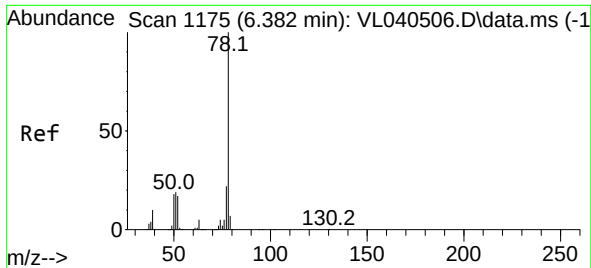
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#35
Carbon Tetrachloride
Concen: 0.047 ppbv m
RT: 6.494 min Scan# 1210
Delta R.T. -0.010 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

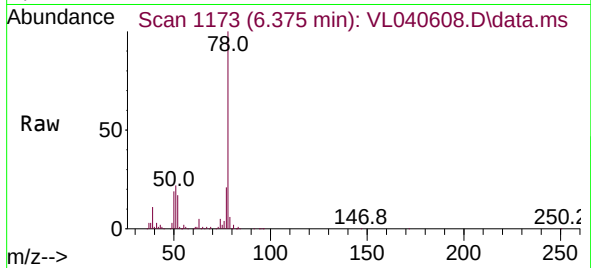
Tgt Ion:117 Resp: 7163
Ion Ratio Lower Upper
117 100
119 84.2 77.8 116.6
121 28.2 24.8 37.2





#36
Benzene
Concen: 1.478 ppbv
RT: 6.375 min Scan# 1175
Delta R.T. -0.006 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

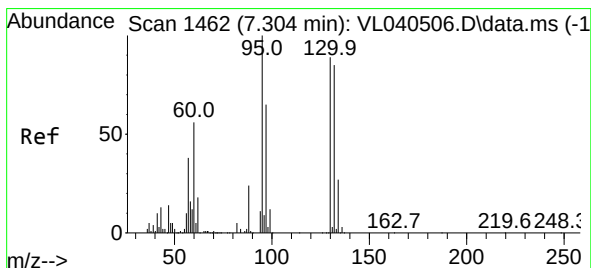
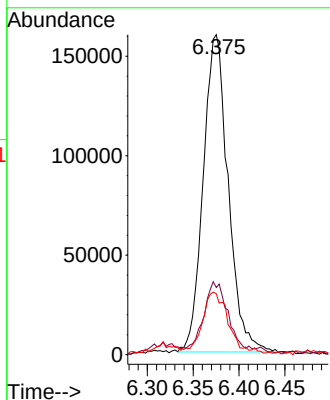
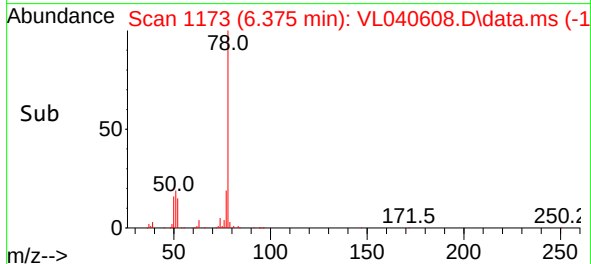
Instrument :
MSVOA_L
ClientSampleId :
SV-2



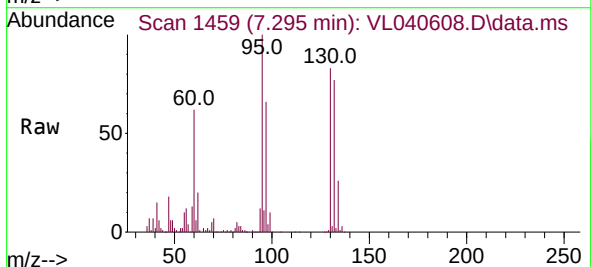
Tgt Ion: 78 Resp: 30170
Ion Ratio Lower Upper
78 100
77 20.4 17.4 26.0
50 18.3 14.4 21.6

Manual Integrations
APPROVED

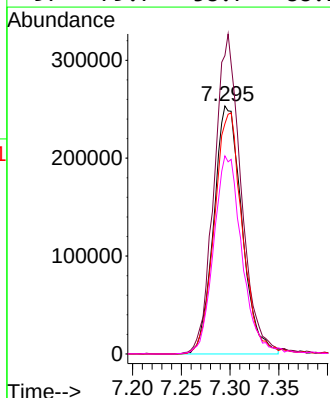
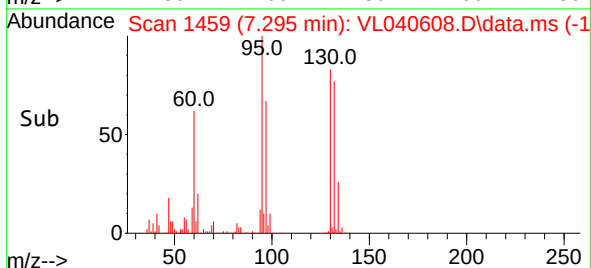
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

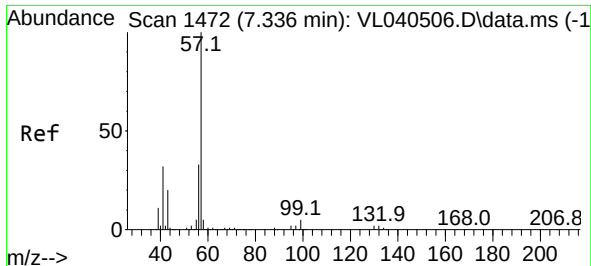


#38
Trichloroethene
Concen: 6.591 ppbv
RT: 7.295 min Scan# 1459
Delta R.T. -0.010 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35



Tgt Ion:130 Resp: 509013
Ion Ratio Lower Upper
130 100
95 120.2 90.2 135.2
132 92.8 76.3 114.5
97 79.7 58.7 88.1





#44

2,2,4-Trimethylpentane

Concen: 0.446 ppbv

RT: 7.333 min Scan# 1472

Delta R.T. -0.003 min

Lab File: VL040608.D

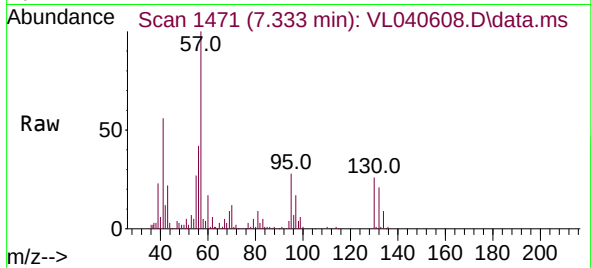
Acq: 9 Aug 2023 16:35

Instrument :

MSVOA_L

ClientSampleId :

SV-2



Tgt Ion: 57 Resp: 14646

Ion Ratio Lower Upper

57 100

41 58.8 25.5 38.3

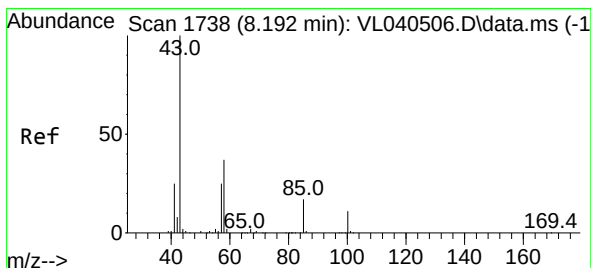
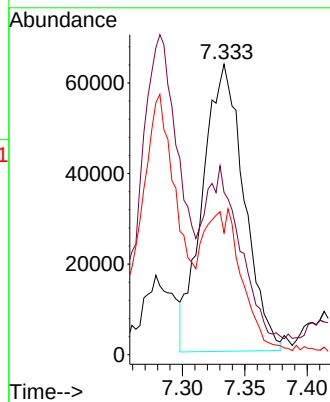
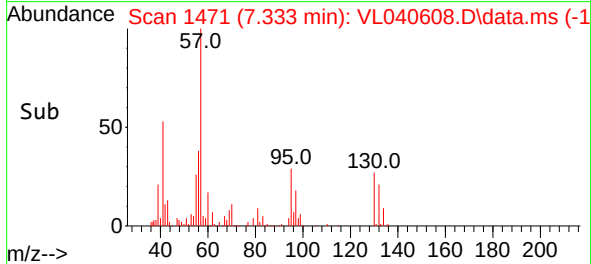
56 49.3 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/10/2023

Supervised By :Mahesh Dadoda 08/10/2023



#50

4-Methyl-2-Pentanone

Concen: 3.828 ppbv

RT: 8.192 min Scan# 1738

Delta R.T. 0.000 min

Lab File: VL040608.D

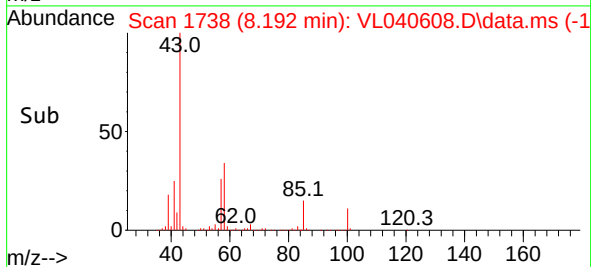
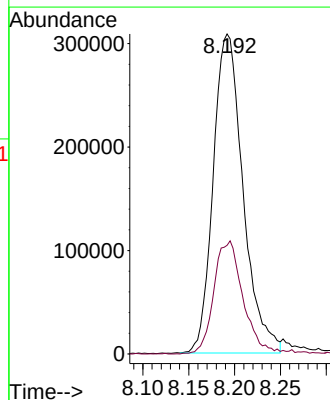
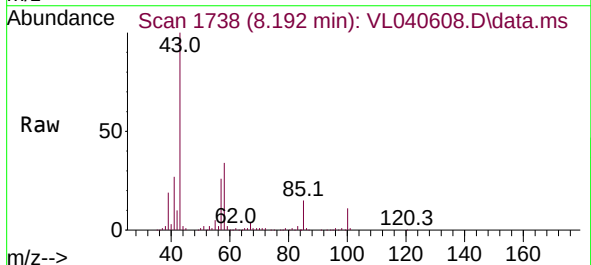
Acq: 9 Aug 2023 16:35

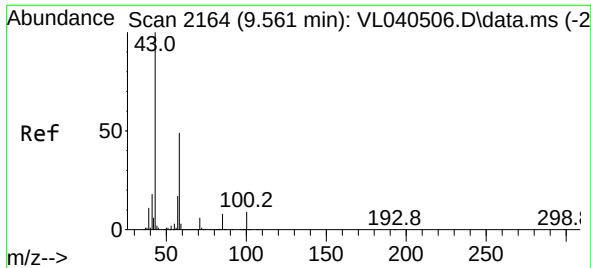
Tgt Ion: 43 Resp: 697430

Ion Ratio Lower Upper

43 100

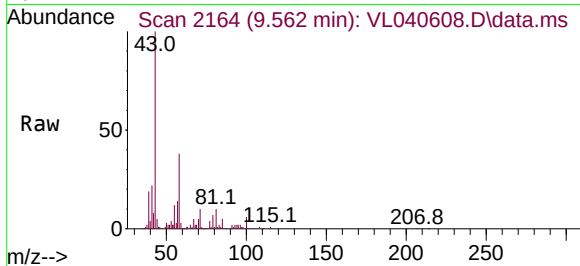
58 35.2 30.2 45.2





#51
2-Hexanone
Concen: 1.277 ppbv m
RT: 9.562 min Scan# 2164
Delta R.T. 0.001 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

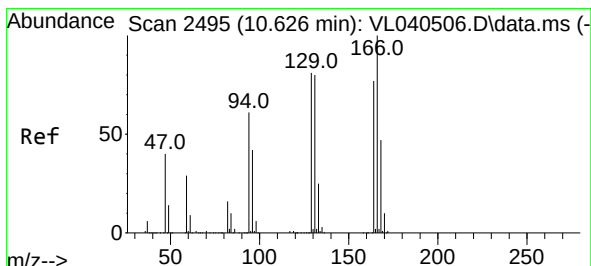
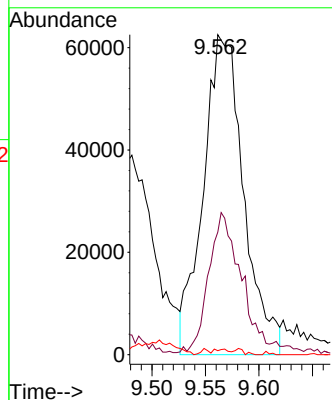
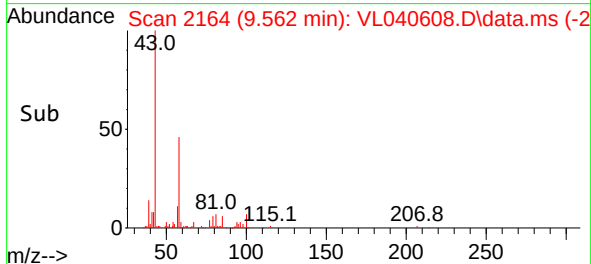
Instrument :
MSVOA_L
ClientSampleId :
SV-2



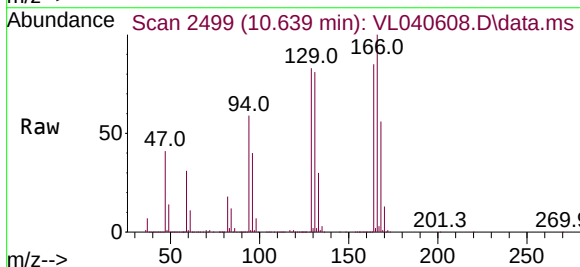
Tgt Ion: 43 Resp: 164538
Ion Ratio Lower Upper
43 100
58 35.8 39.7 59.5
98 0.0 0.3 0.5

Manual Integrations
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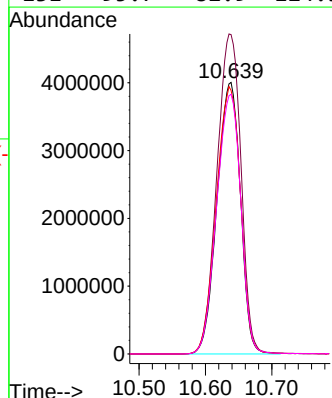
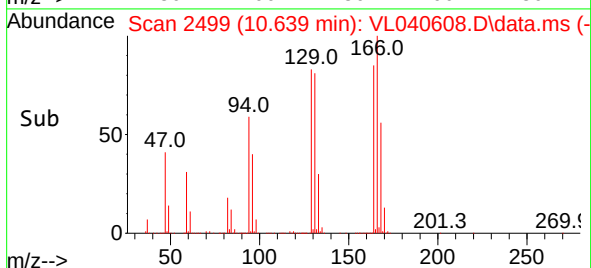
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

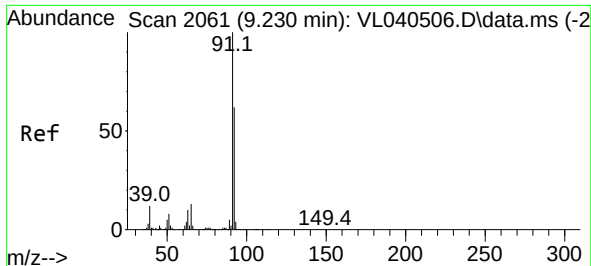


#52
Tetrachloroethene
Concen: 148.334 ppbv
RT: 10.639 min Scan# 2499
Delta R.T. 0.013 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35



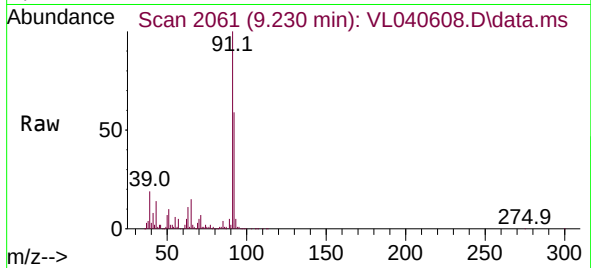
Tgt Ion:164 Resp: 9807308
Ion Ratio Lower Upper
164 100
166 117.6 103.9 155.9
129 97.1 84.6 126.8
131 95.7 82.9 124.3





#53
Toluene
Concen: 1.863 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

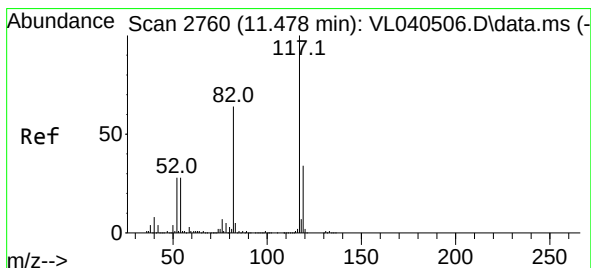
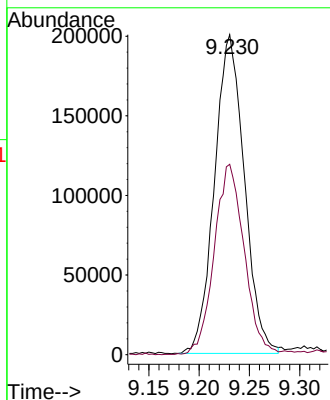
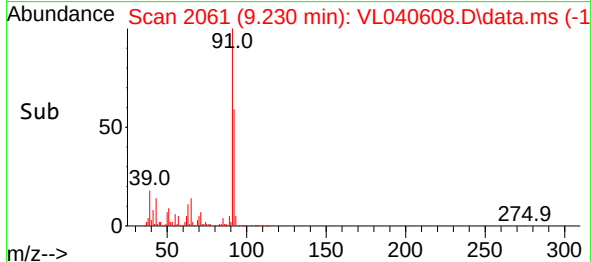
Instrument :
MSVOA_L
ClientSampleId :
SV-2



Tgt Ion: 91 Resp: 41307
Ion Ratio Lower Upper
91 100
92 60.5 49.1 73.7

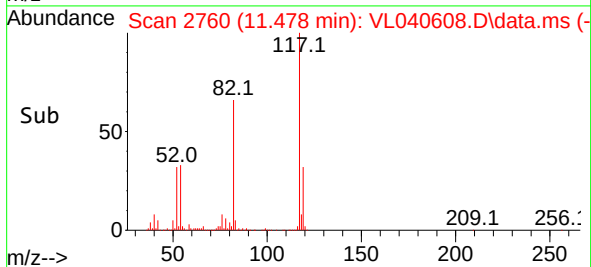
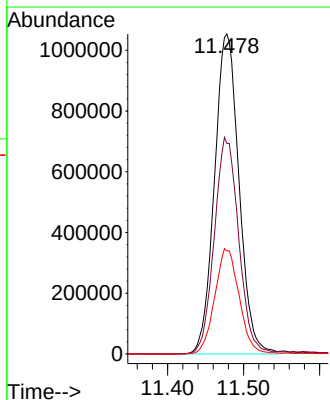
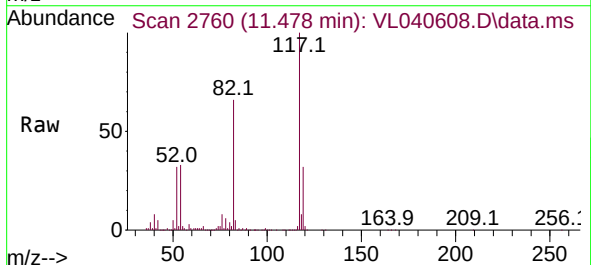
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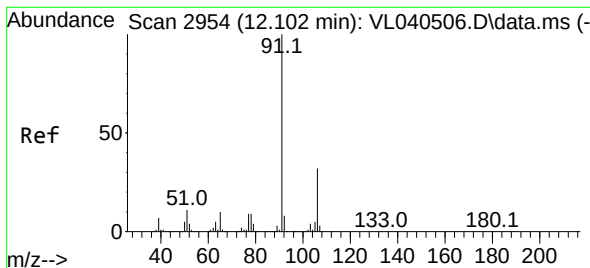
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 2760
Delta R.T. 0.000 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

Tgt Ion:117 Resp: 2364421
Ion Ratio Lower Upper
117 100
82 67.5 50.2 75.4
119 33.0 26.9 40.3





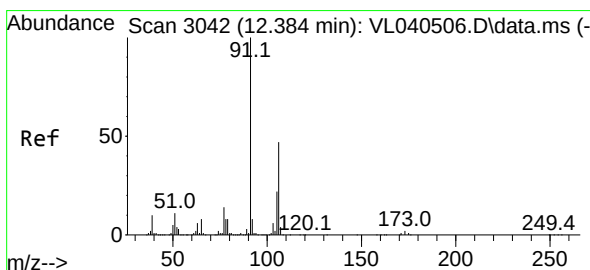
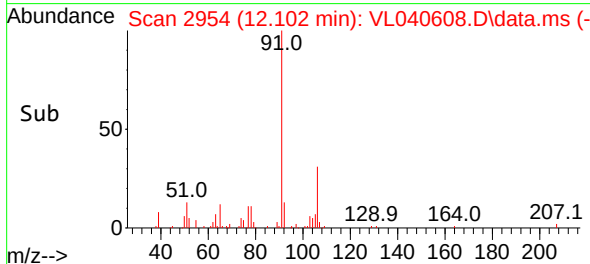
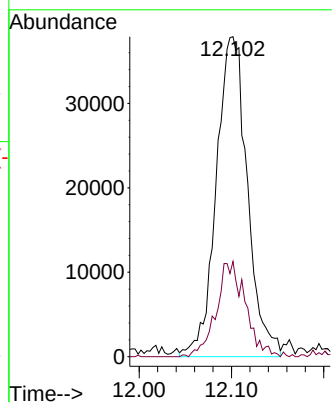
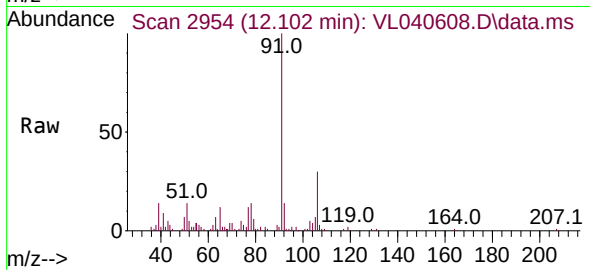
#58
Ethyl Benzene
Concen: 0.300 ppbv m
RT: 12.102 min Scan# 2954
Delta R.T. 0.000 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

Instrument :
MSVOA_L
ClientSampleId :
SV-2

Tgt Ion: 91 Resp: 8890
Ion Ratio Lower Upper
91 100
106 29.7 25.4 38.0

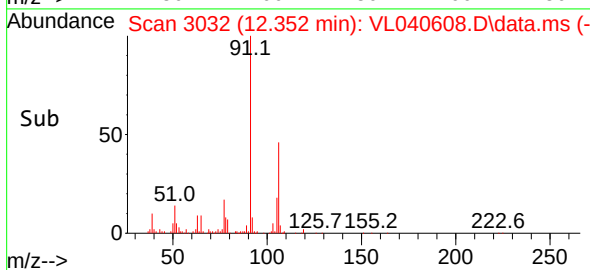
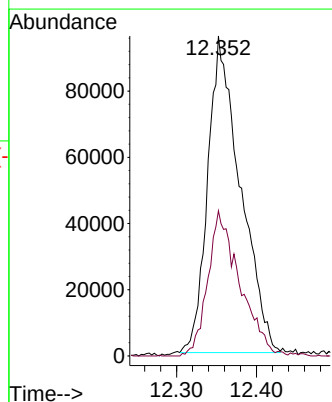
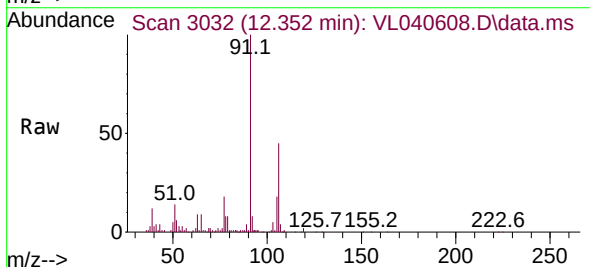
Manual Integrations
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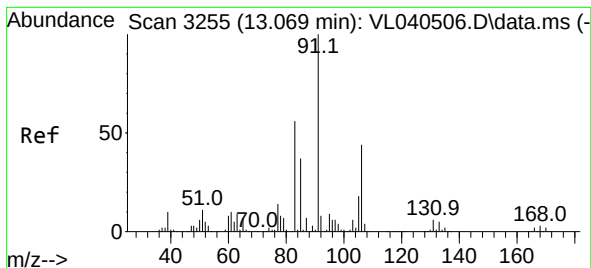
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#59
m/p-Xylene
Concen: 1.025 ppbv
RT: 12.352 min Scan# 3032
Delta R.T. -0.032 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

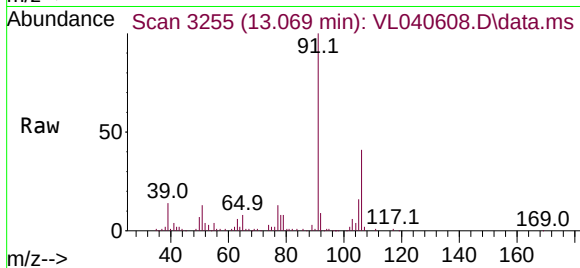
Tgt Ion: 91 Resp: 271502
Ion Ratio Lower Upper
91 100
106 45.2 35.9 53.9





#60
o-Xylene
Concen: 0.569 ppbv
RT: 13.069 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

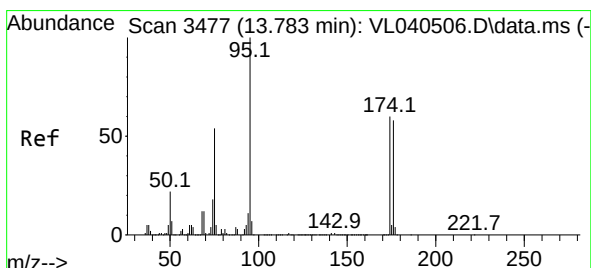
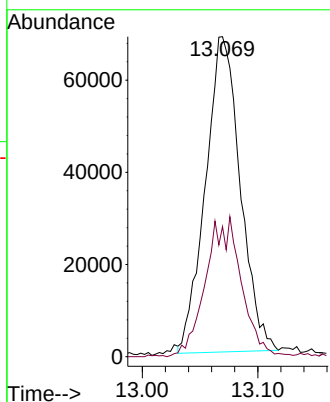
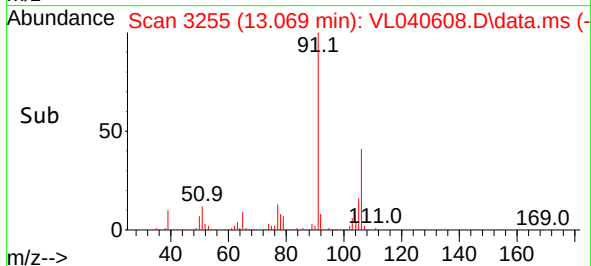
Instrument :
MSVOA_L
ClientSampleId :
SV-2



Tgt Ion: 91 Resp: 14357
Ion Ratio Lower Upper
91 100
106 46.2 22.7 68.0

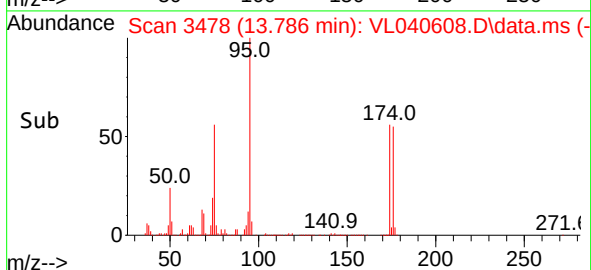
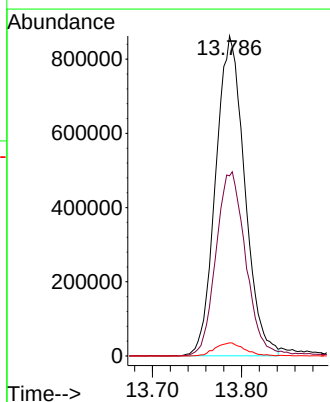
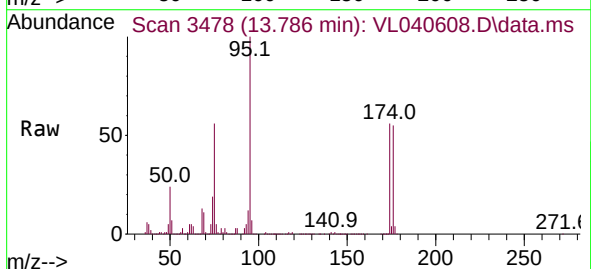
Manual Integrations
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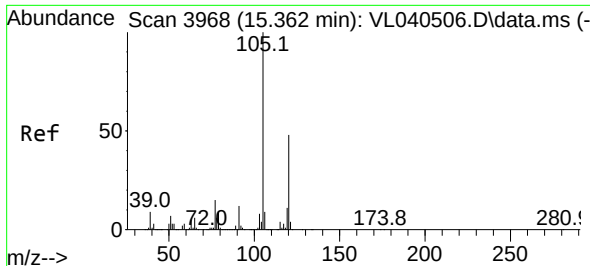
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 10.420 ppbv
RT: 13.786 min Scan# 3478
Delta R.T. 0.003 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

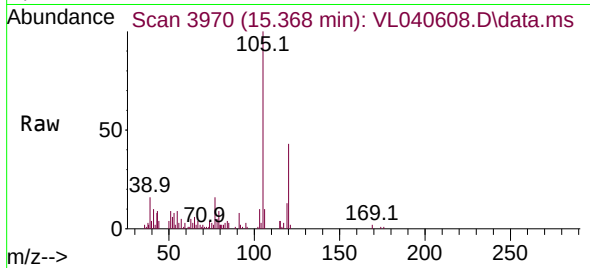
Tgt Ion: 95 Resp: 1949811
Ion Ratio Lower Upper
95 100
174 60.3 50.6 75.8
175 4.3 3.7 5.5





#73
1,3,5-Trimethylbenzene
Concen: 0.161 ppbv
RT: 15.368 min Scan# 3968
Delta R.T. 0.006 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

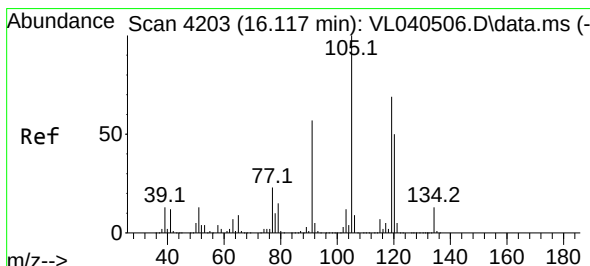
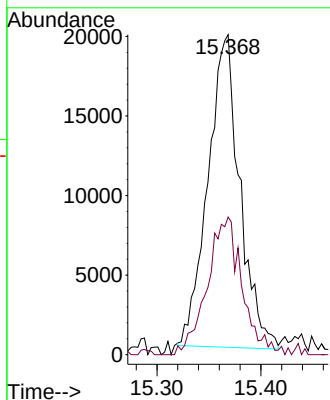
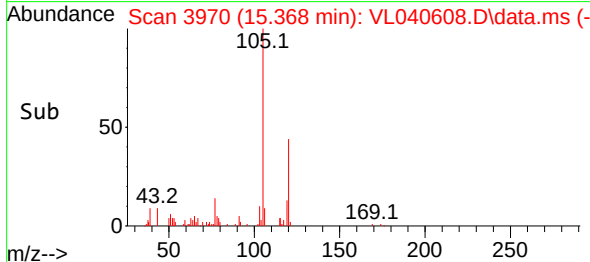
Instrument :
MSVOA_L
ClientSampleId :
SV-2



Tgt Ion:105 Resp: 41922
Ion Ratio Lower Upper
105 100
120 42.9 38.2 57.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.484 ppbv
RT: 16.121 min Scan# 4204
Delta R.T. 0.003 min
Lab File: VL040608.D
Acq: 9 Aug 2023 16:35

Tgt Ion:105 Resp: 147227
Ion Ratio Lower Upper
105 100
120 39.0 40.3 60.5#
91 12.1 46.8 70.2#
77 16.2 18.6 28.0#

