

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080723\
 Data File : VL040600.D
 Acq On : 7 Aug 2023 15:53
 Operator : SY/MD
 Sample : 03907-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/08/2023
 Supervised By : Mahesh Dadoda 08/09/2023

Quant Time: Aug 08 01:41:51 2023

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 4 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	5.198	49	1172274	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	3015325	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2853455	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.789	95	2290441	10.142	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	36568	0.156	ppbv	96
7) Chloroethane	3.198	64	7456	0.275	ppbv #	77
9) Propene	2.693	41	3113225	48.941	ppbv	96
10) Heptane	7.590	43	199778	1.422	ppbv	100
11) Trichlorofluoromethane	3.568	101	407871	2.156	ppbv	98
13) Ethanol	3.240	45	95998	6.936	ppbv	99
15) Acetone	3.471	43	1071684m	7.942	ppbv	
17) tert-Butyl alcohol	3.889	59	127638	0.915	ppbv	95
20) Methylene Chloride	3.938	84	1688768	29.422	ppbv	98
26) Hexane	5.221	57	1582550	13.260	ppbv #	40
27) Carbon Disulfide	4.131	76	234803	1.673	ppbv #	93
28) Methyl tert-Butyl Ether	4.597	73	123493	1.285	ppbv	99
29) Chloroform	5.278	83	193462	0.977	ppbv	89
30) Cyclohexane	6.613	84	66272	0.667	ppbv #	69
34) 2-Butanone	4.796	43	253946	1.704	ppbv	99
36) Benzene	6.381	78	206125	0.850	ppbv	95
38) Trichloroethene	7.301	130	144595m	1.576	ppbv	
44) 2,2,4-Trimethylpentane	7.333	57	1513261	3.877	ppbv #	79
50) 4-Methyl-2-Pentanone	8.195	43	474021	2.190	ppbv	96
52) Tetrachloroethene	10.629	164	929466	11.830	ppbv	96
53) Toluene	9.230	91	2126604	8.069	ppbv	100
58) Ethyl Benzene	12.101	91	205910	0.575	ppbv	97
59) m/p-Xylene	12.352	91	496734	1.554	ppbv	99
60) o-Xylene	13.072	91	187877	0.617	ppbv	99
73) 1,3,5-Trimethylbenzene	15.368	105	24714m	0.079	ppbv	
74) 1,2,4-Trimethylbenzene	16.120	105	70593	0.192	ppbv #	66

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

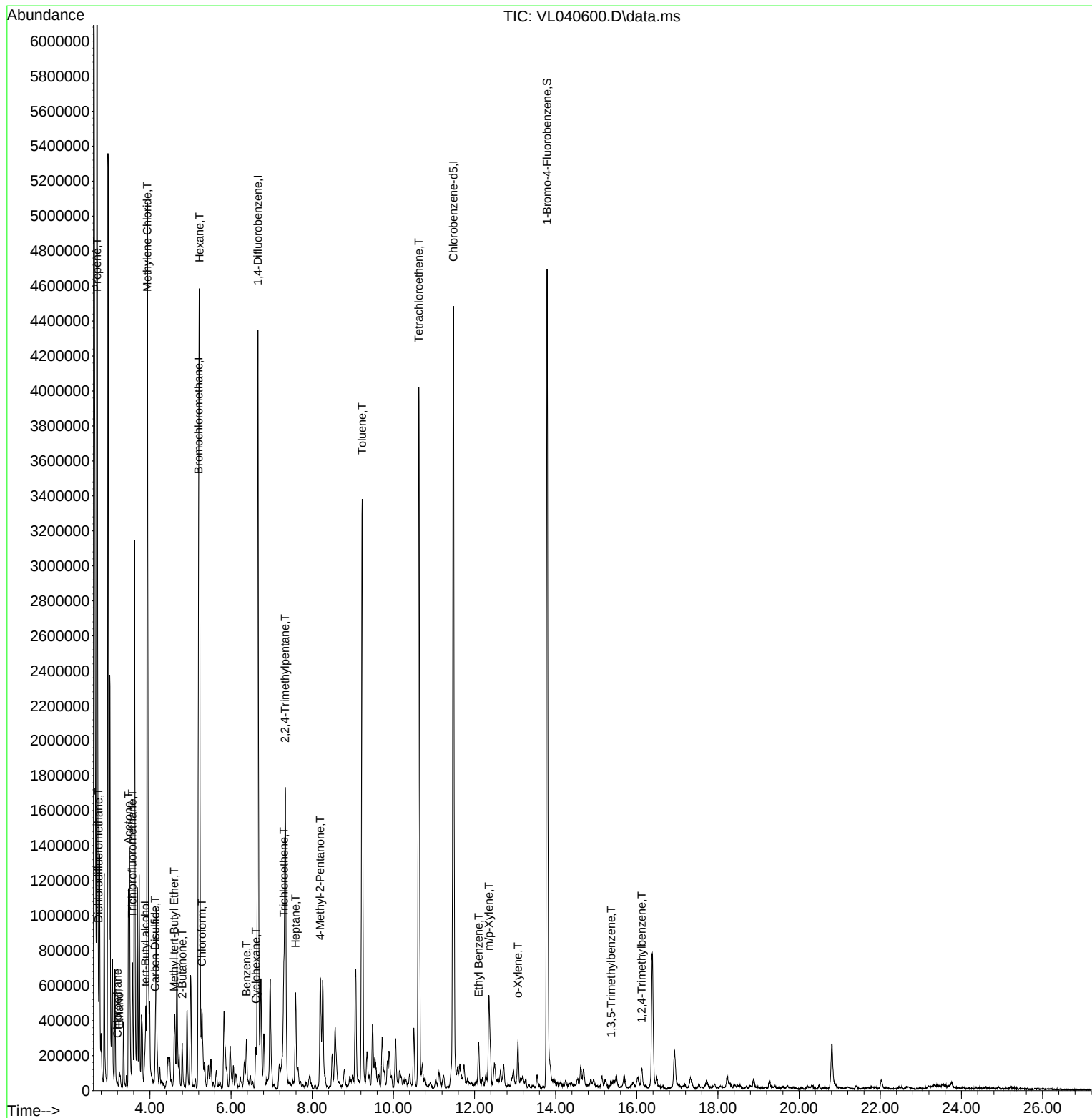
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080723\
Data File : VL040600.D
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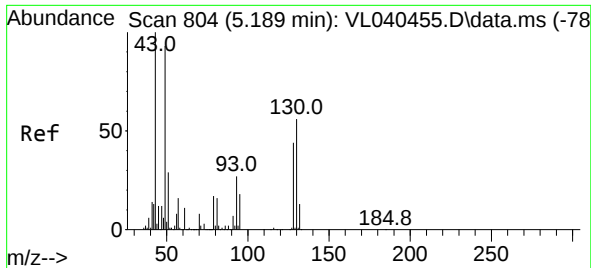
Instrument :
MSVOA_L
ClientSampleId :
SV-1

Quant Time: Aug 08 01:41:51 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
Response via : Initial Calibration

Manual Integrations
APPROVED

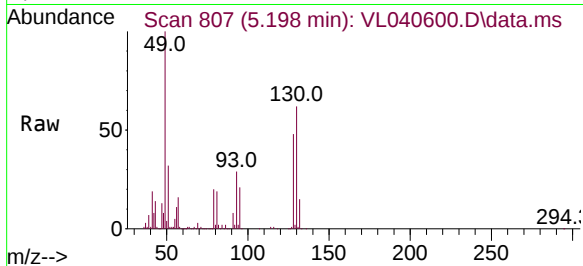
Reviewed By : Semsettin Yesilyurt 08/08/2023
Supervised By : Mahesh Dadoda 08/09/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.004 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

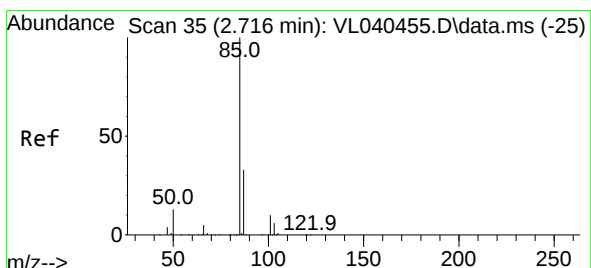
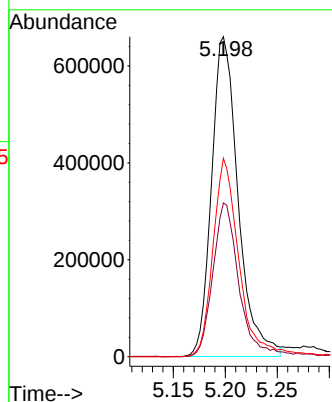
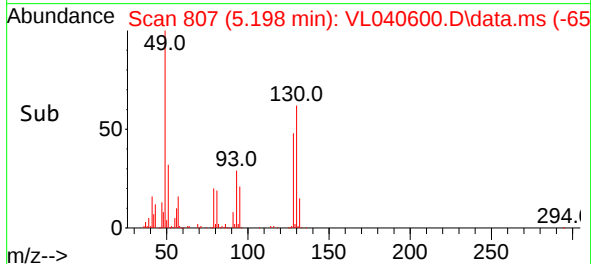
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 49 Resp: 1172274
Ion Ratio Lower Upper
49 100
128 48.6 25.1 75.4
130 61.6 31.6 94.7

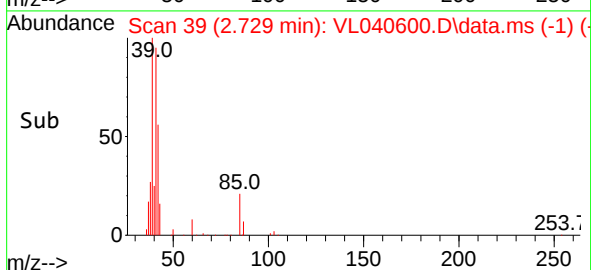
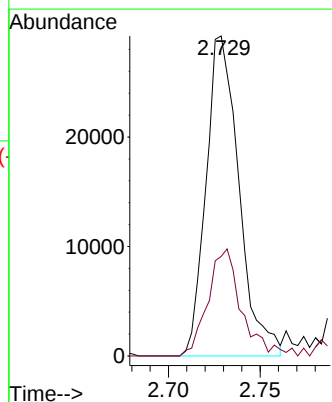
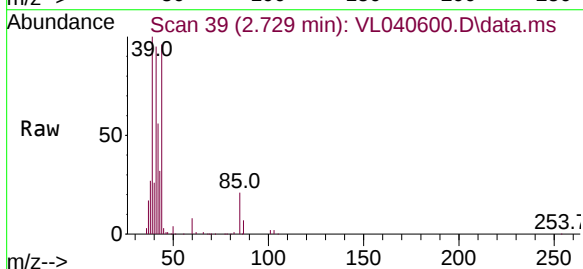
Manual Integrations
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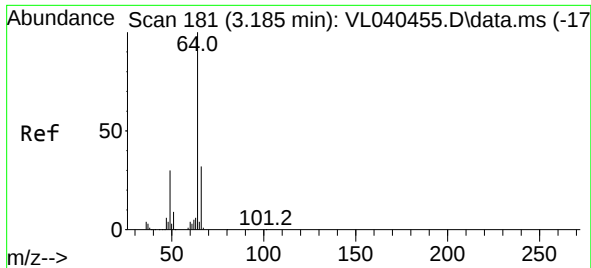
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#2
Dichlorodifluoromethane
Concen: 0.156 ppbv
RT: 2.729 min Scan# 39
Delta R.T. -0.010 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

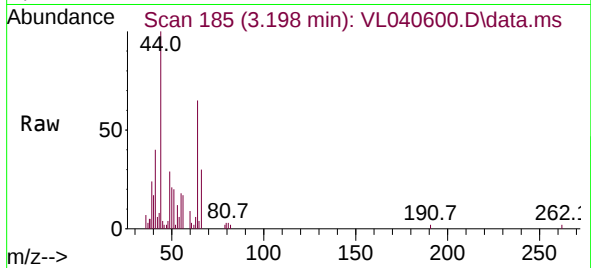
Tgt Ion: 85 Resp: 36568
Ion Ratio Lower Upper
85 100
87 31.1 26.8 40.2





#7
Chloroethane
Concen: 0.275 ppbv
RT: 3.198 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

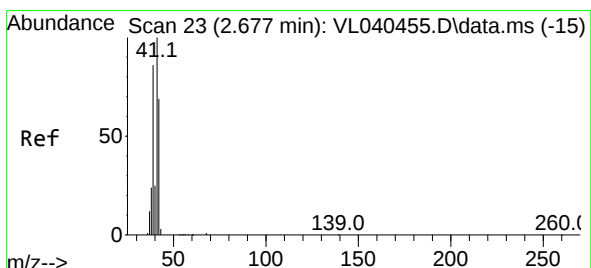
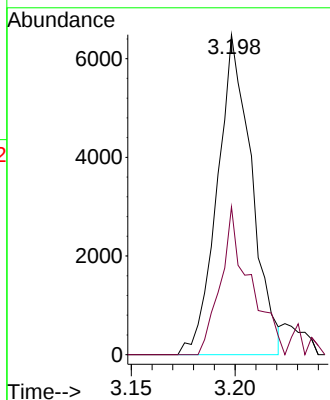
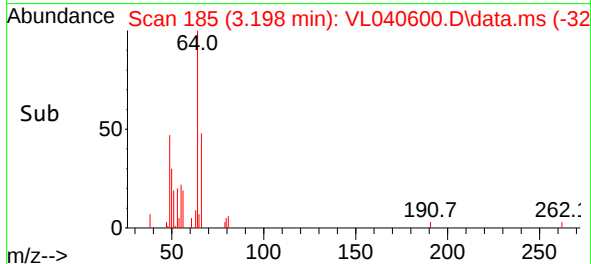
Instrument :
MSVOA_L
ClientSampleId :
SV-1



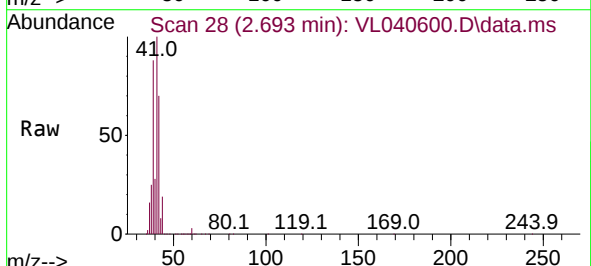
Tgt Ion: 64 Resp: 7450
Ion Ratio Lower Upper
64 100
66 43.3 24.4 36.6

Manual Integrations
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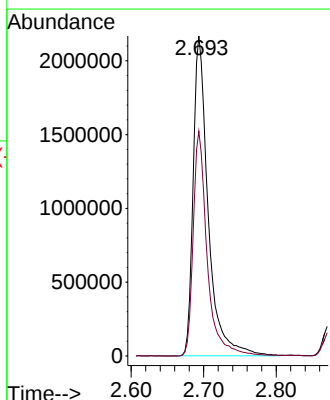
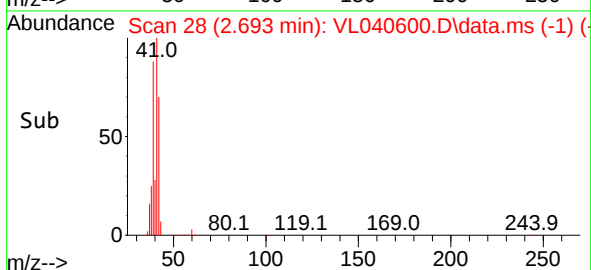
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023

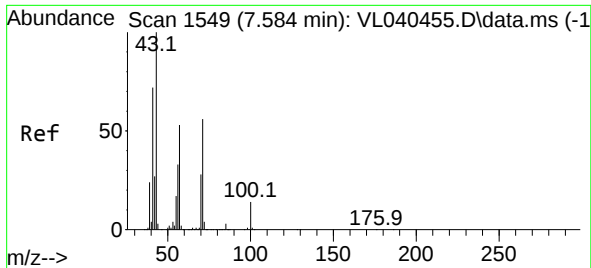


#9
Propene
Concen: 48.941 ppbv
RT: 2.693 min Scan# 28
Delta R.T. -0.010 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53



Tgt Ion: 41 Resp: 3113225
Ion Ratio Lower Upper
41 100
42 65.8 55.0 82.6





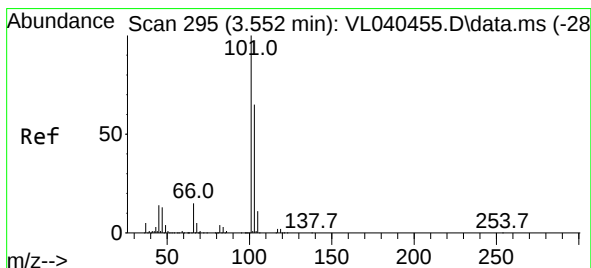
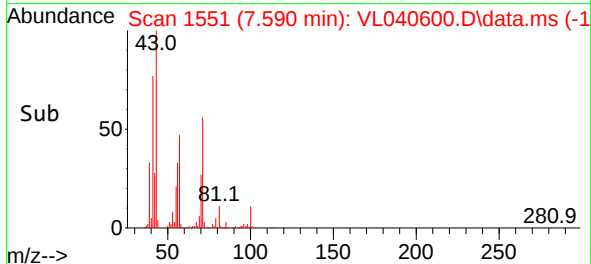
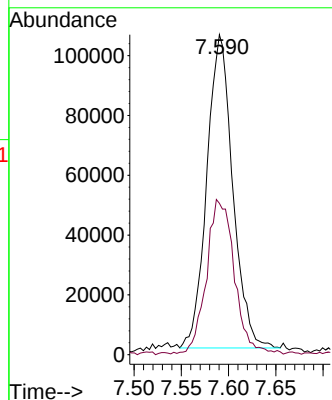
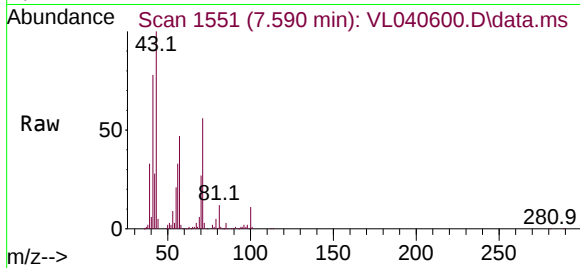
#10
Heptane
Concen: 1.422 ppbv
RT: 7.590 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 43 Resp: 199778
Ion Ratio Lower Upper
43 100
57 53.2 42.5 63.7

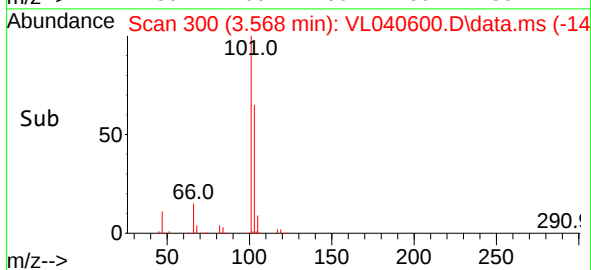
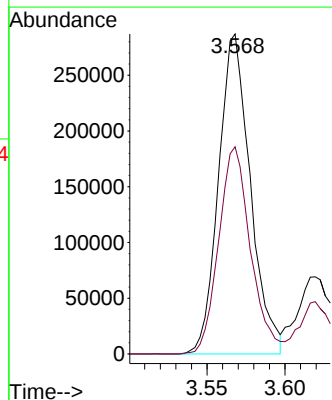
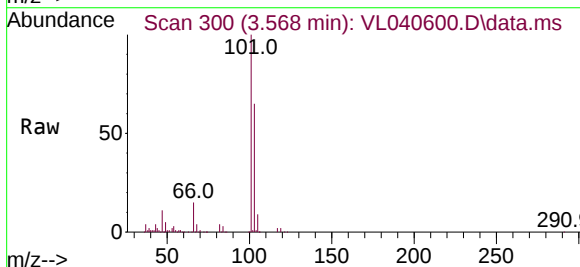
Manual Integrations
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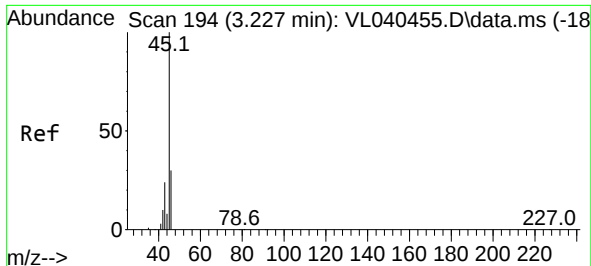
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#11
Trichlorofluoromethane
Concen: 2.156 ppbv
RT: 3.568 min Scan# 300
Delta R.T. -0.003 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

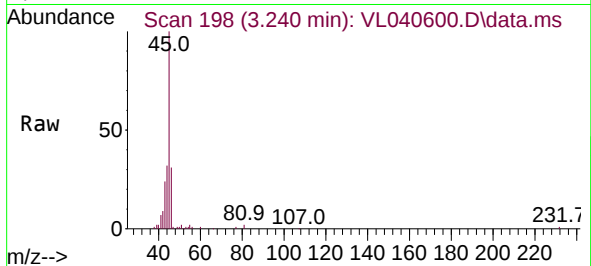
Tgt Ion:101 Resp: 407871
Ion Ratio Lower Upper
101 100
103 64.7 53.4 80.0





#13
Ethanol
Concen: 6.936 ppbv
RT: 3.240 min Scan# 194
Delta R.T. -0.007 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

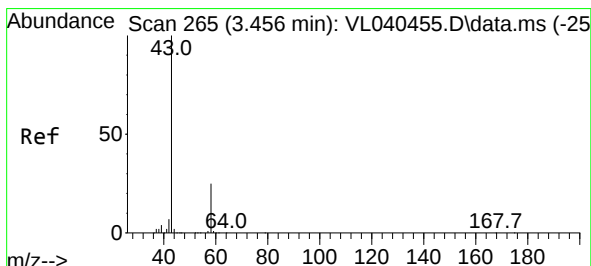
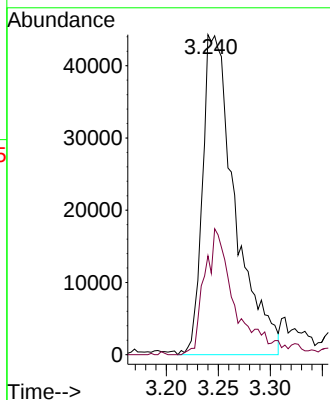
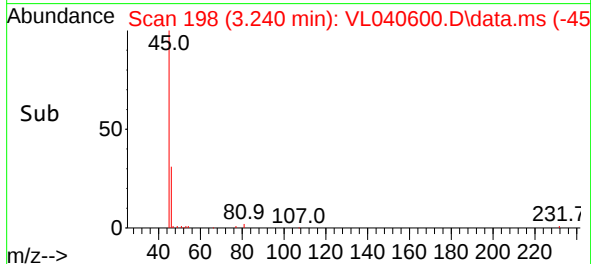
Instrument :
MSVOA_L
ClientSampleId :
SV-1



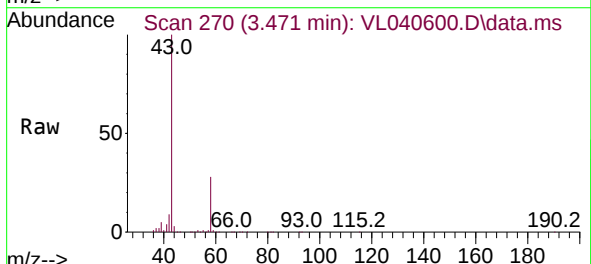
Tgt Ion: 45 Resp: 9598
Ion Ratio Lower Upper
45 100
46 38.7 15.3 61.1

Manual Integrations
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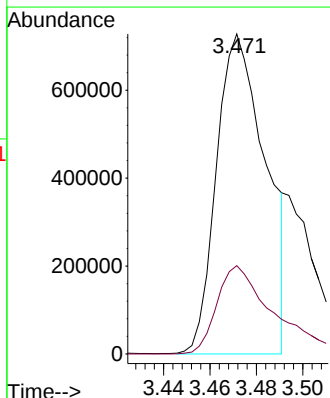
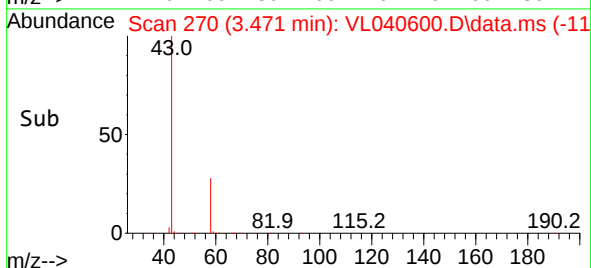
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023

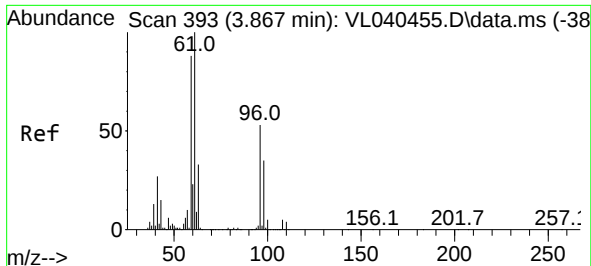


#15
Acetone
Concen: 7.942 ppbv m
RT: 3.471 min Scan# 270
Delta R.T. -0.003 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53



Tgt Ion: 43 Resp: 1071684
Ion Ratio Lower Upper
43 100
58 34.7 22.9 34.3#





#17

tert-Butyl alcohol

Concen: 0.915 ppbv

RT: 3.889 min Scan# 400

Delta R.T. 0.006 min

Lab File: VL040600.D

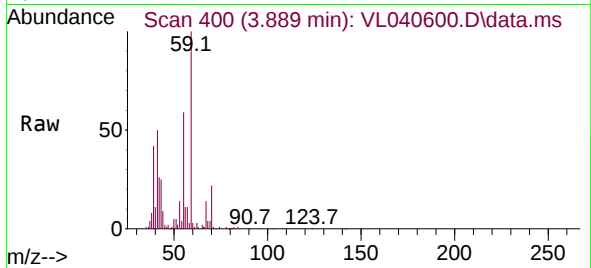
Acq: 7 Aug 2023 15:53

Instrument :

MSVOA_L

ClientSampleId :

SV-1



Tgt Ion: 59 Resp: 127638

Ion Ratio Lower Upper

59 100

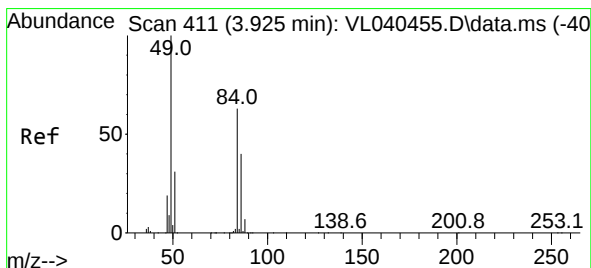
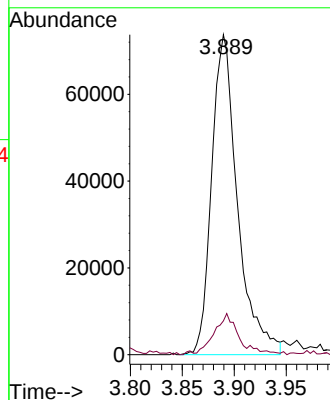
57 12.7 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/08/2023

Supervised By :Mahesh Dadoda 08/09/2023



#20

Methylene Chloride

Concen: 29.422 ppbv

RT: 3.938 min Scan# 415

Delta R.T. -0.003 min

Lab File: VL040600.D

Acq: 7 Aug 2023 15:53

Tgt Ion: 84 Resp: 1688768

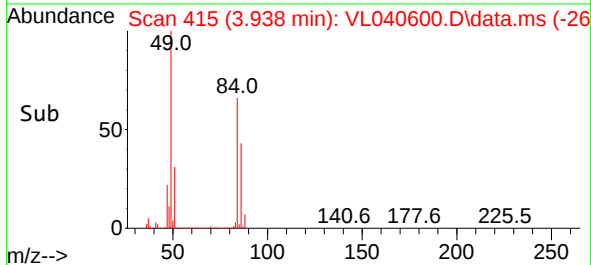
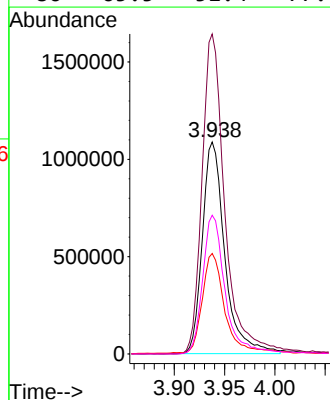
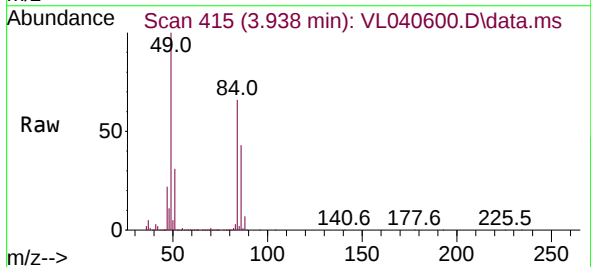
Ion Ratio Lower Upper

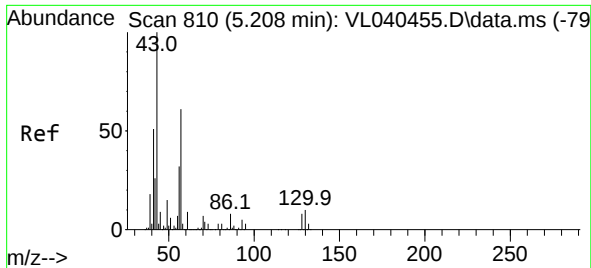
84 100

49 150.9 123.4 185.2

51 46.8 38.3 57.5

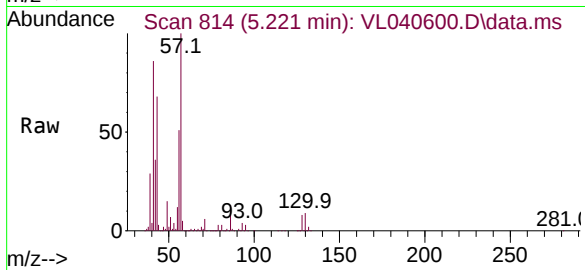
86 65.5 51.4 77.0





#26
Hexane
Concen: 13.260 ppbv
RT: 5.221 min Scan# 814
Delta R.T. -0.000 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

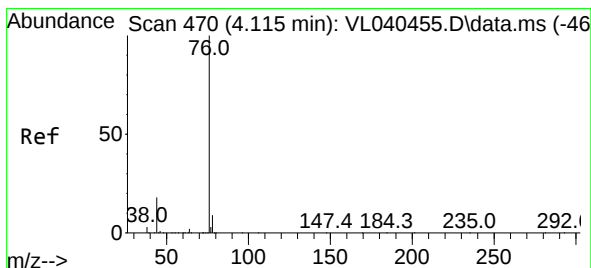
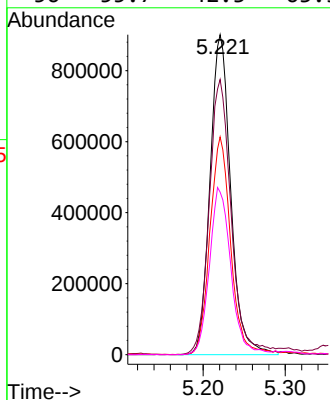
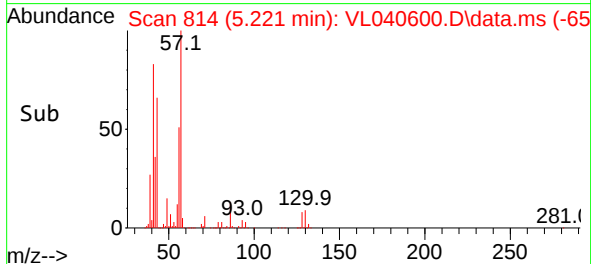
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 57 Resp: 1582550
Ion Ratio Lower Upper
57 100
41 93.9 69.5 104.3
43 69.4 177.1 265.7
56 55.7 42.3 63.5

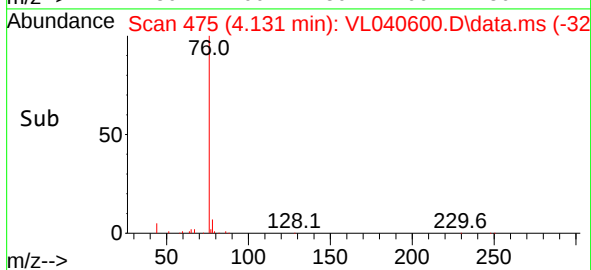
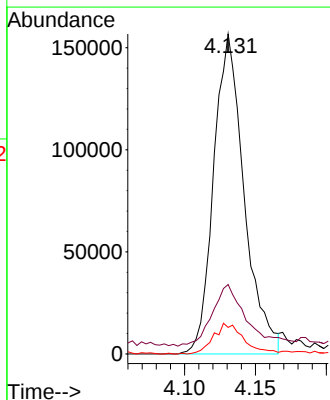
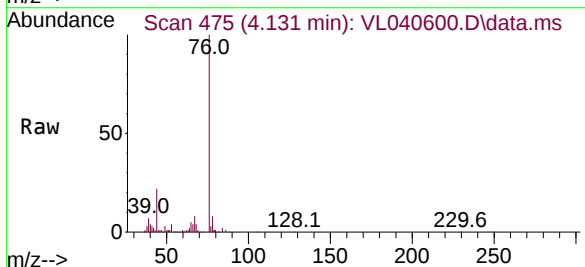
Manual Integrations
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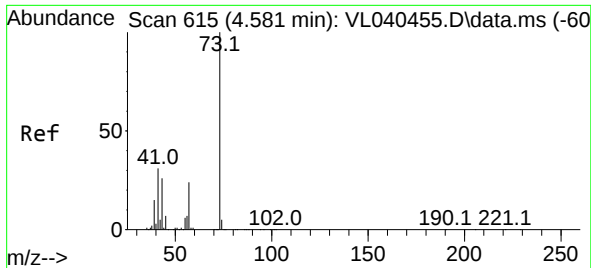
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#27
Carbon Disulfide
Concen: 1.673 ppbv
RT: 4.131 min Scan# 475
Delta R.T. -0.000 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

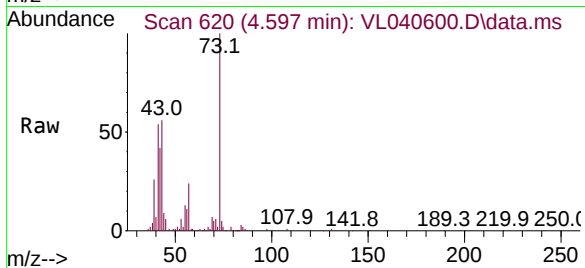
Tgt Ion: 76 Resp: 234803
Ion Ratio Lower Upper
76 100
44 23.0 15.1 22.7
78 10.4 7.5 11.3





#28
Methyl tert-Butyl Ether
Concen: 1.285 ppbv
RT: 4.597 min Scan# 615
Delta R.T. 0.003 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

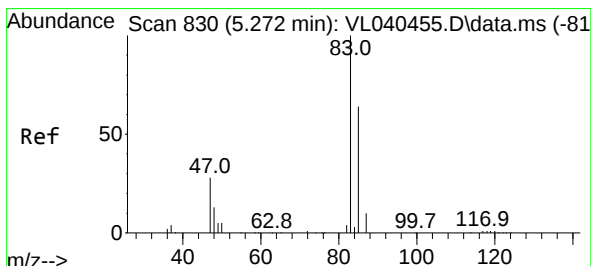
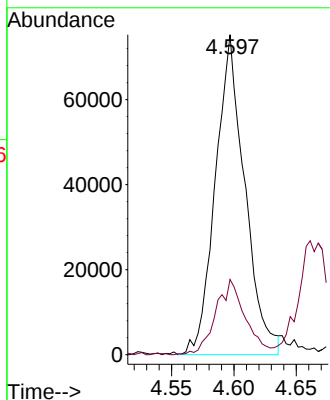
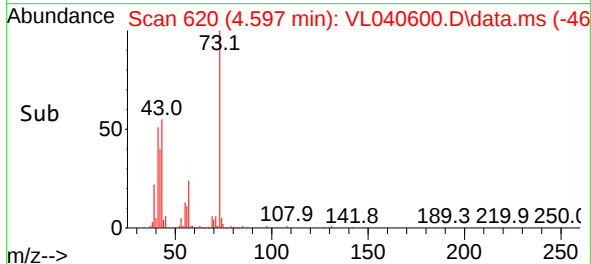
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 73 Resp: 12349
Ion Ratio Lower Upper
73 100
57 22.9 18.8 28.2

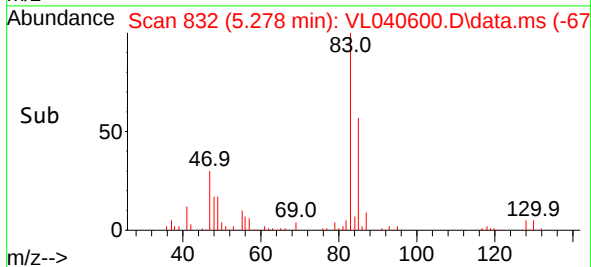
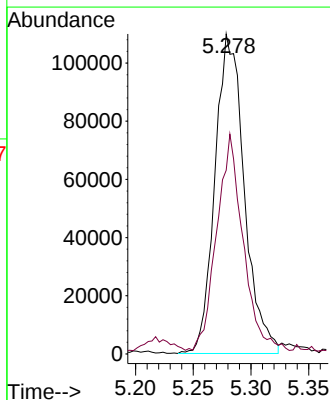
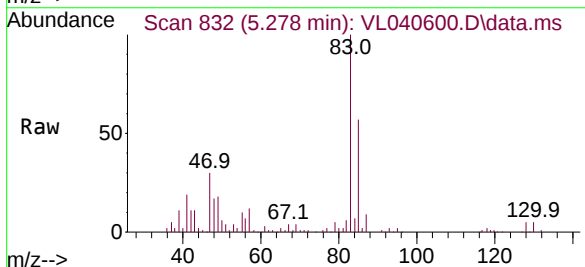
Manual Integrations
APPROVED

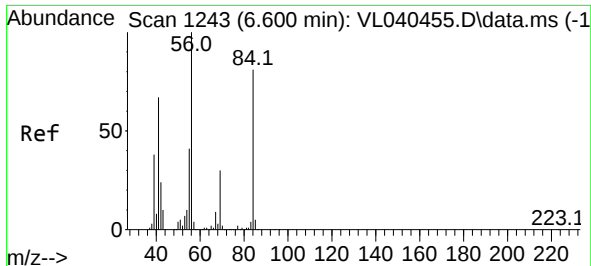
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#29
Chloroform
Concen: 0.977 ppbv
RT: 5.278 min Scan# 832
Delta R.T. -0.007 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

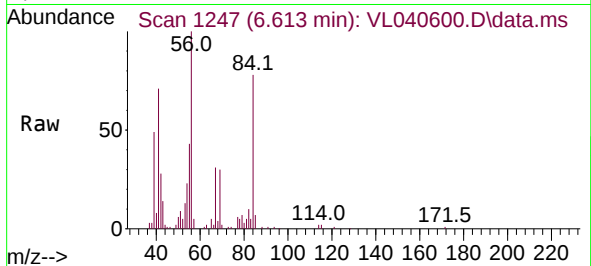
Tgt Ion: 83 Resp: 193462
Ion Ratio Lower Upper
83 100
85 55.1 51.1 76.7





#30
Cyclohexane
Concen: 0.667 ppbv
RT: 6.613 min Scan# 1247
Delta R.T. 0.003 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

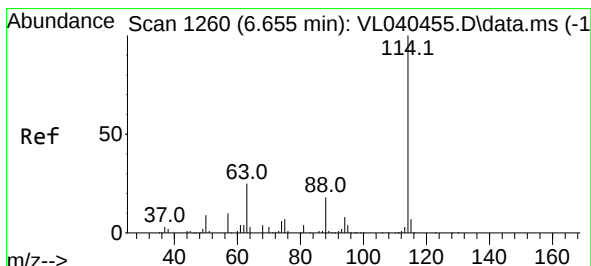
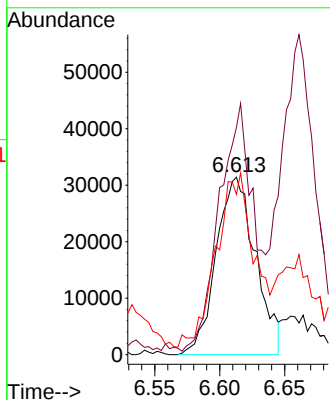
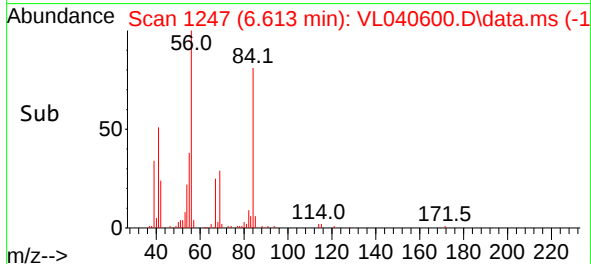
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 84 Resp: 66272
Ion Ratio Lower Upper
84 100
56 124.0 108.7 163.1
41 140.6 64.5 96.7

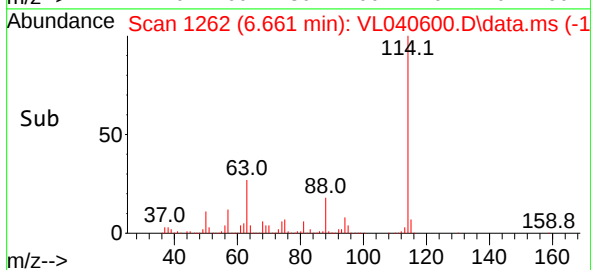
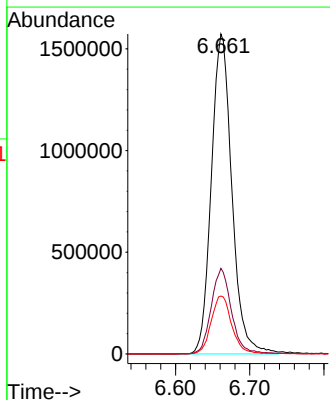
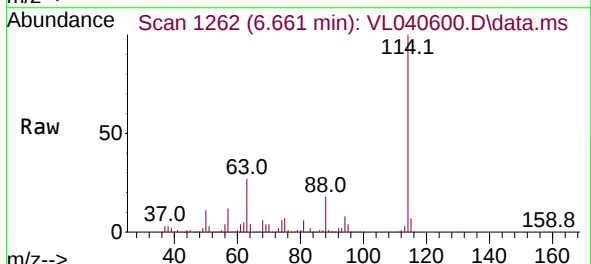
Manual Integrations
APPROVED

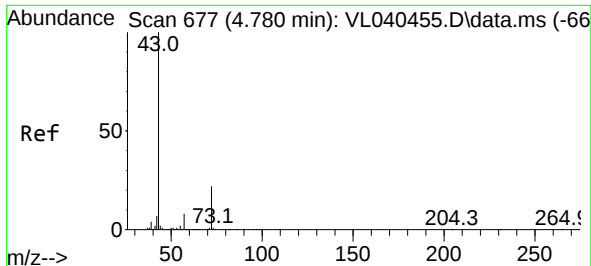
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.003 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

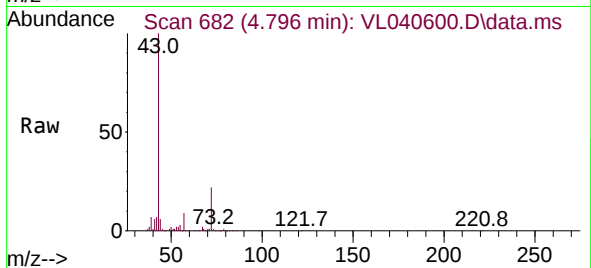
Tgt Ion:114 Resp: 3015325
Ion Ratio Lower Upper
114 100
63 26.7 19.6 29.4
88 18.4 14.2 21.2





#34
2-Butanone
Concen: 1.704 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

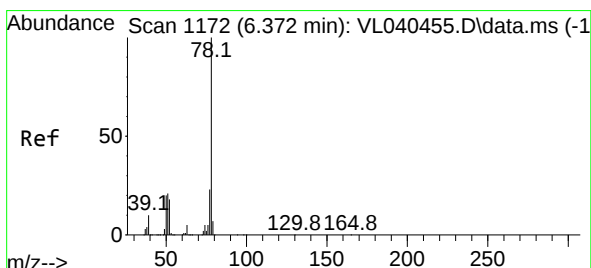
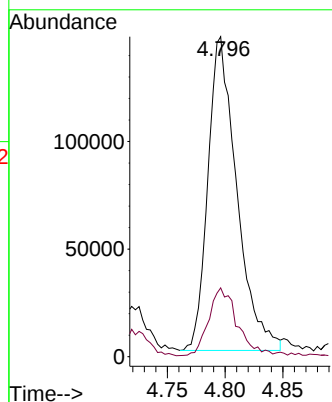
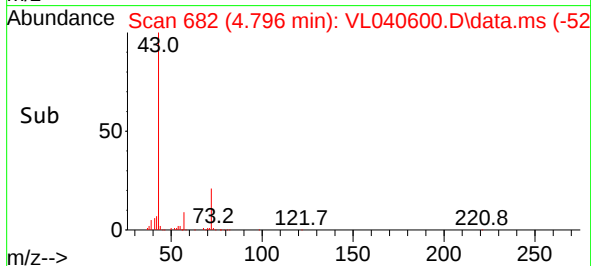
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 43 Resp: 253940
Ion Ratio Lower Upper
43 100
72 23.3 19.1 28.7

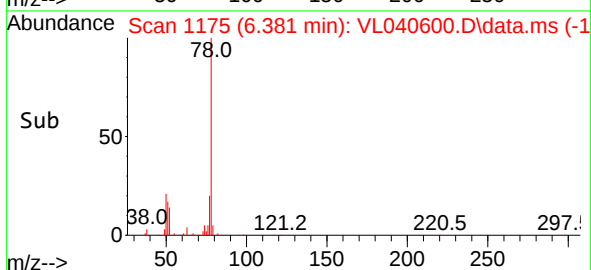
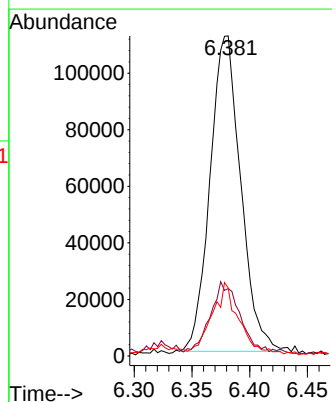
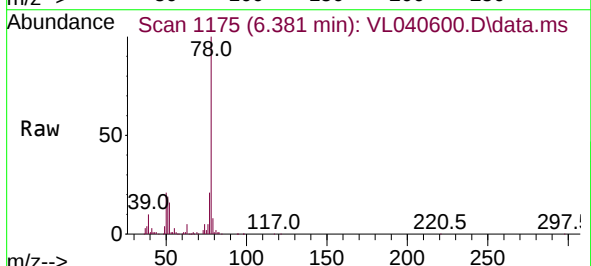
Manual Integrations
APPROVED

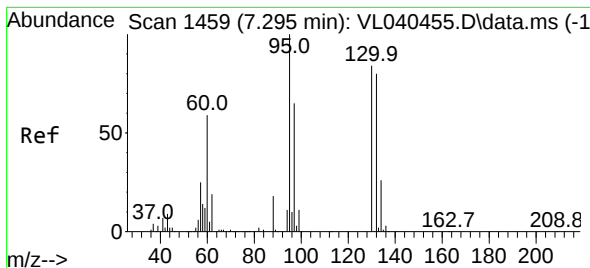
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#36
Benzene
Concen: 0.850 ppbv
RT: 6.381 min Scan# 1175
Delta R.T. -0.000 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

Tgt Ion: 78 Resp: 206125
Ion Ratio Lower Upper
78 100
77 19.5 17.4 26.0
50 20.2 14.4 21.6





#38

Trichloroethene

Concen: 1.576 ppbv

RT: 7.301 min Scan# 1459

Delta R.T. -0.003 min

Lab File: VL040600.D

Acq: 7 Aug 2023 15:53

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tgt Ion:130 Resp: 14459

Ion Ratio Lower Upper

130 100

95 135.4 90.2 135.2

132 101.8 76.3 114.5

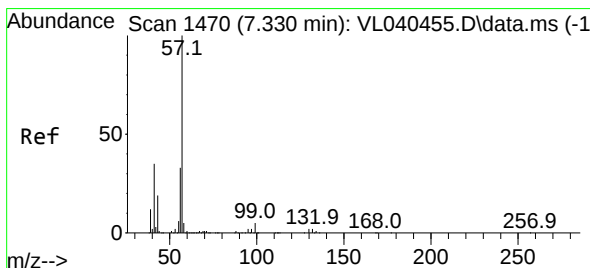
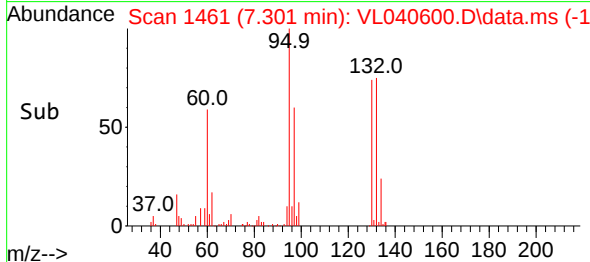
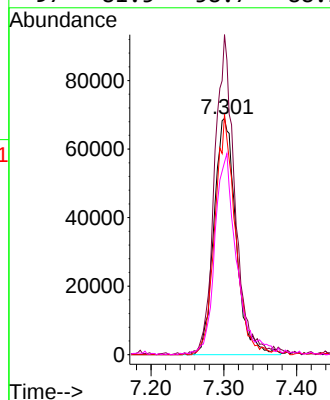
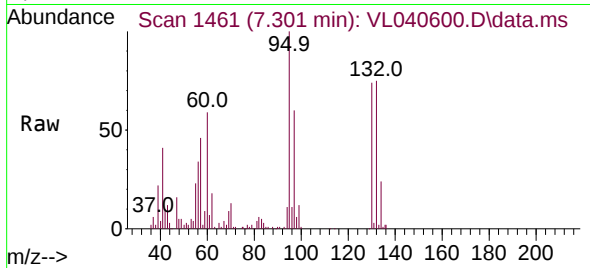
97 81.5 58.7 88.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/08/2023

Supervised By :Mahesh Dadoda 08/09/2023



#44

2,2,4-Trimethylpentane

Concen: 3.877 ppbv

RT: 7.333 min Scan# 1471

Delta R.T. -0.003 min

Lab File: VL040600.D

Acq: 7 Aug 2023 15:53

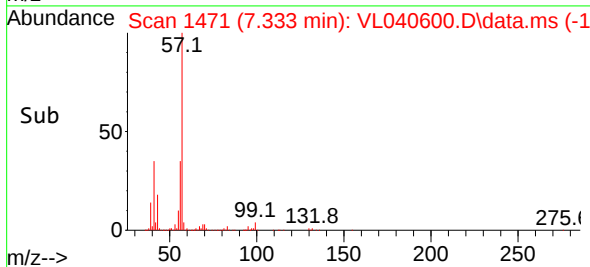
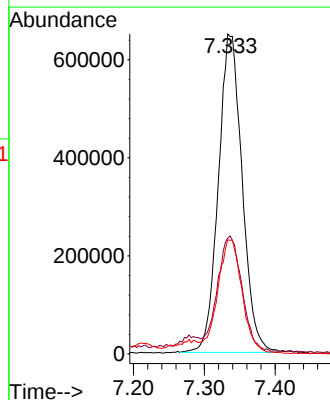
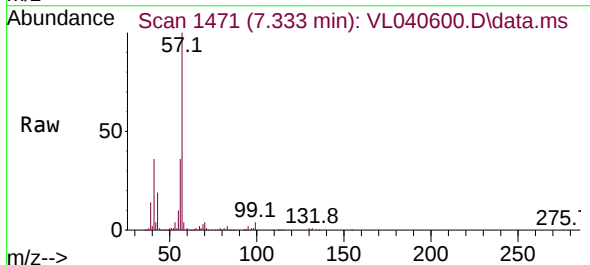
Tgt Ion: 57 Resp: 1513261

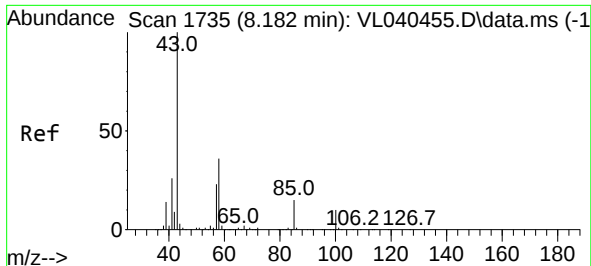
Ion Ratio Lower Upper

57 100

41 44.1 25.5 38.3#

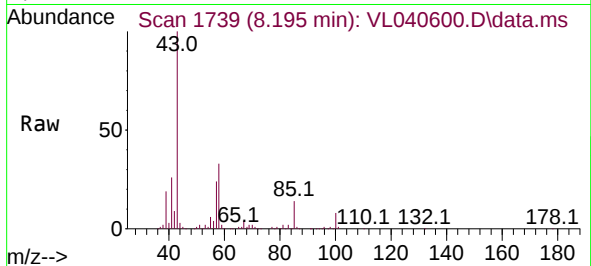
56 42.0 25.1 37.7#





#50
4-Methyl-2-Pentanone
Concen: 2.190 ppbv
RT: 8.195 min Scan# 1739
Delta R.T. 0.003 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

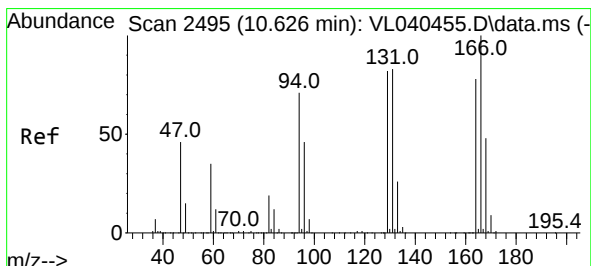
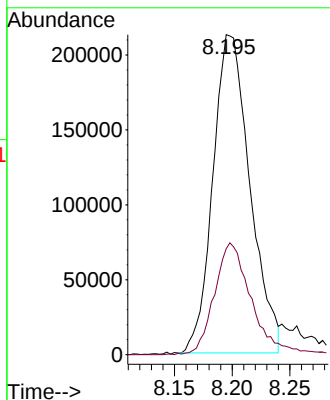
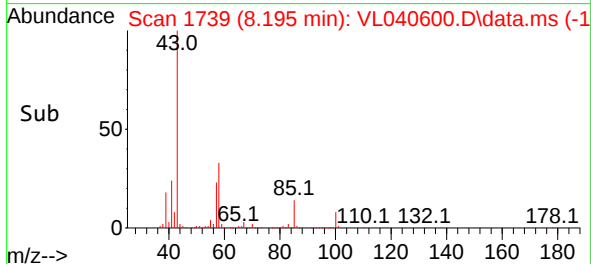
Instrument :
MSVOA_L
ClientSampleId :
SV-1



Tgt Ion: 43 Resp: 47402
Ion Ratio Lower Upper
43 100
58 35.1 30.2 45.2

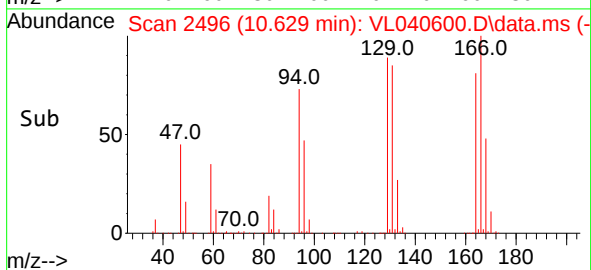
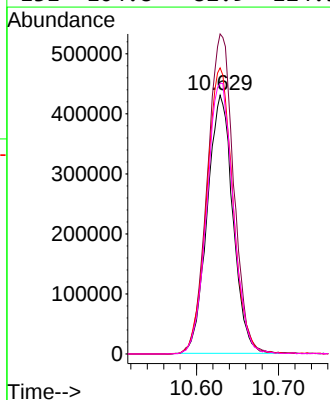
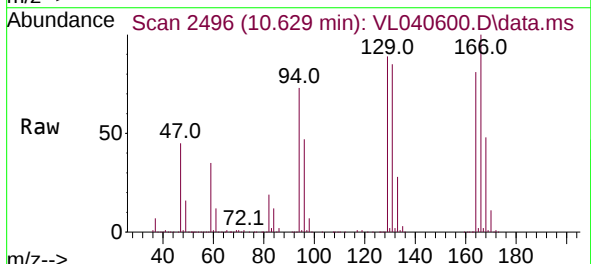
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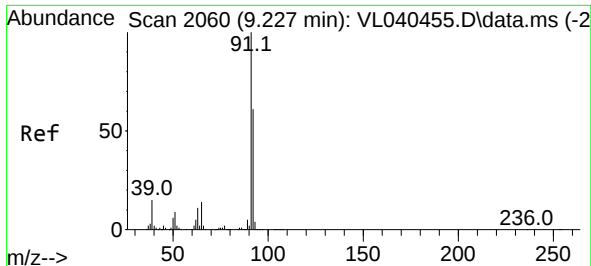
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#52
Tetrachloroethene
Concen: 11.830 ppbv
RT: 10.629 min Scan# 2496
Delta R.T. 0.003 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

Tgt Ion:164 Resp: 929466
Ion Ratio Lower Upper
164 100
166 123.9 103.9 155.9
129 110.6 84.6 126.8
131 104.8 82.9 124.3





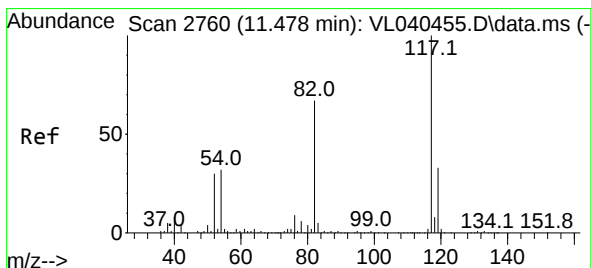
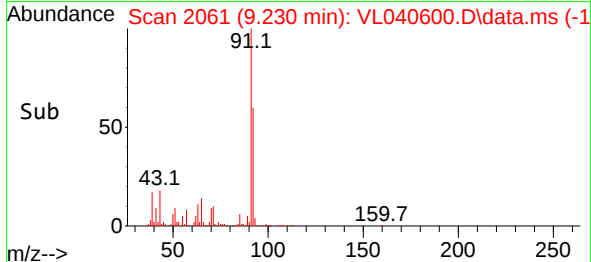
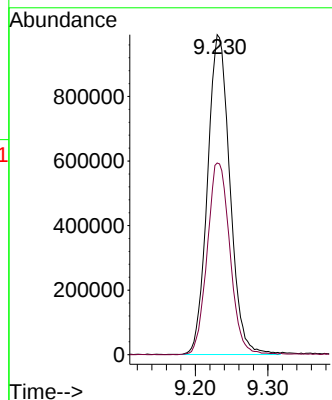
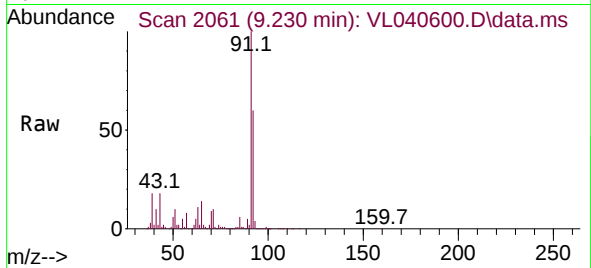
#53
Toluene
Concen: 8.069 ppbv
RT: 9.230 min Scan# 2060
Delta R.T. -0.000 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 91 Resp: 2126604
Ion Ratio Lower Upper
91 100
92 61.2 49.1 73.7

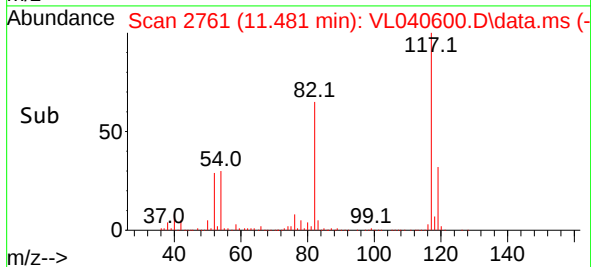
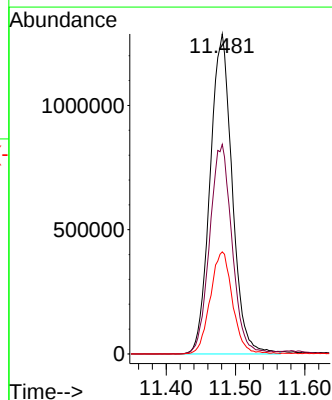
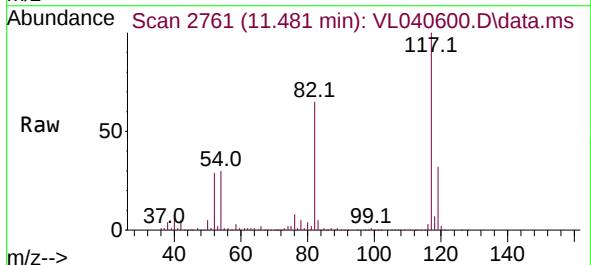
Manual Integrations
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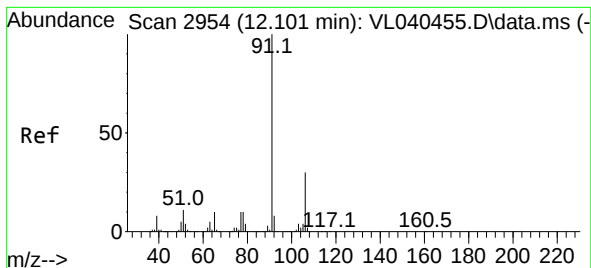
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. 0.003 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

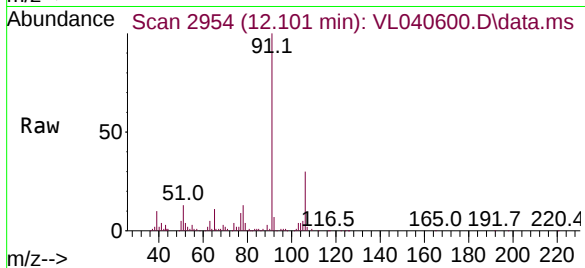
Tgt Ion:117 Resp: 2853455
Ion Ratio Lower Upper
117 100
82 66.7 50.2 75.4
119 32.4 26.9 40.3





#58
Ethyl Benzene
Concen: 0.575 ppbv
RT: 12.101 min Scan# 2954
Delta R.T. -0.000 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

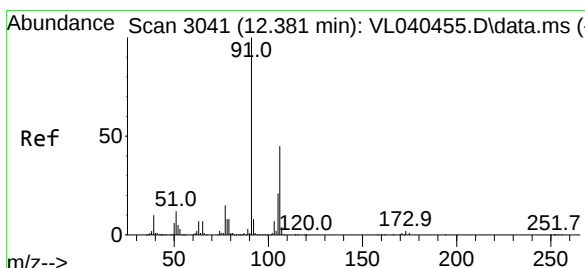
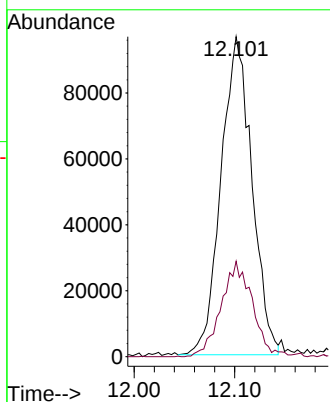
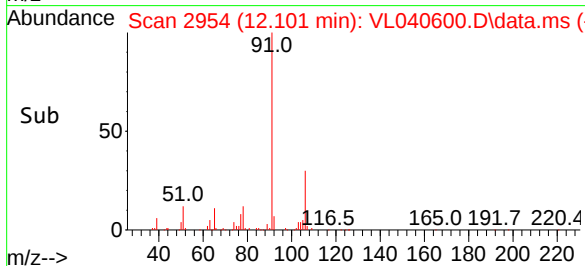
Instrument :
MSVOA_L
ClientSampleId :
SV-1



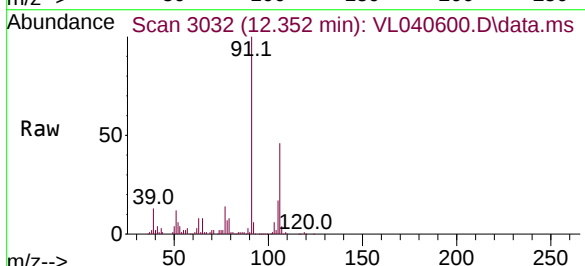
Tgt Ion: 91 Resp: 205910
Ion Ratio Lower Upper
91 100
106 29.9 25.4 38.0

Manual Integrations
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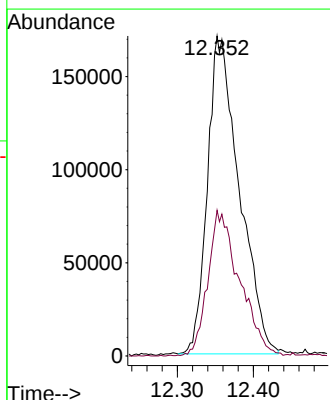
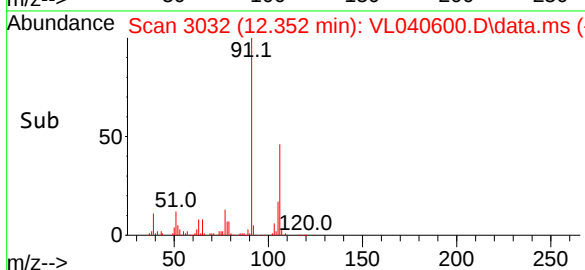
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023

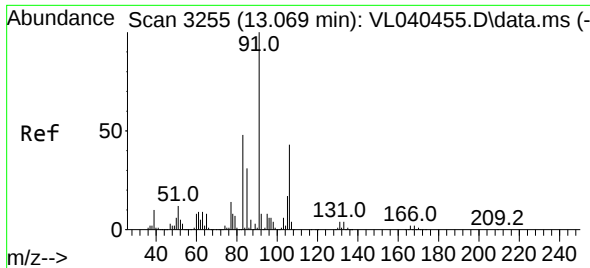


#59
m/p-Xylene
Concen: 1.554 ppbv
RT: 12.352 min Scan# 3032
Delta R.T. -0.032 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53



Tgt Ion: 91 Resp: 496734
Ion Ratio Lower Upper
91 100
106 45.8 35.9 53.9





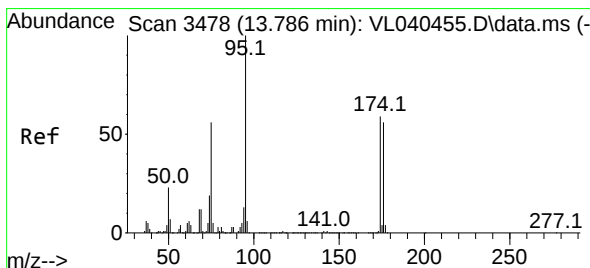
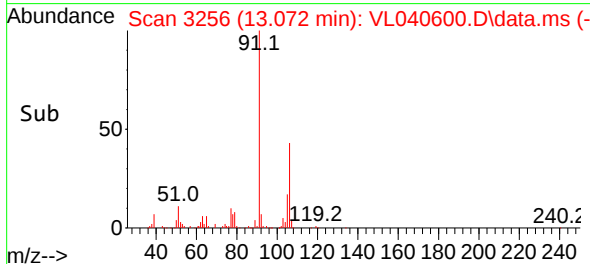
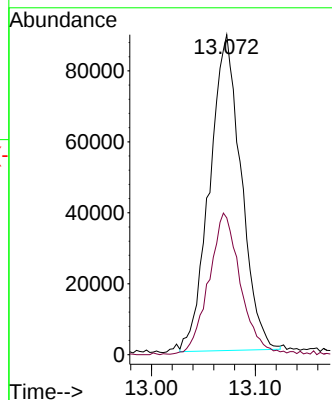
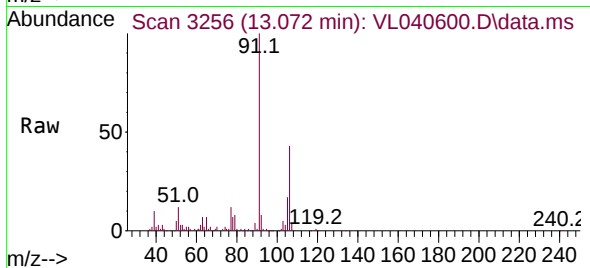
#60
o-Xylene
Concen: 0.617 ppbv
RT: 13.072 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 91 Resp: 18787
Ion Ratio Lower Upper
91 100
106 45.9 22.7 68.0

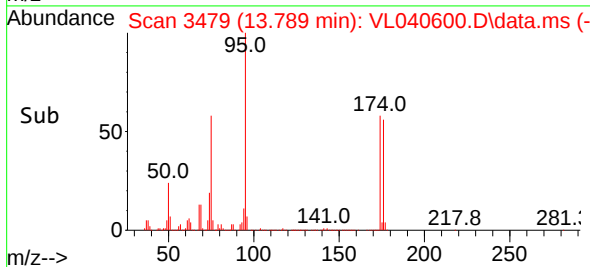
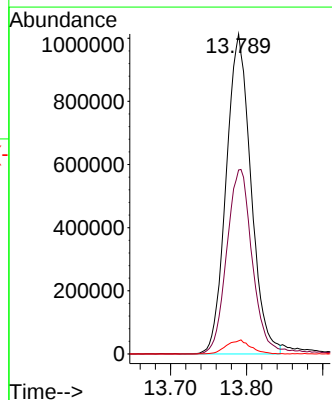
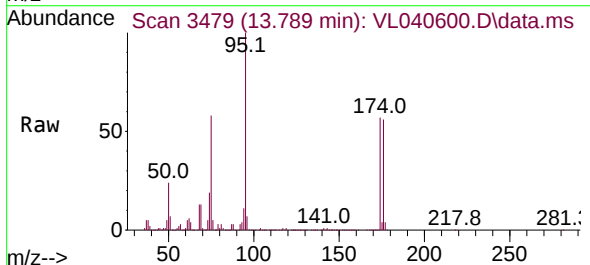
Manual Integrations
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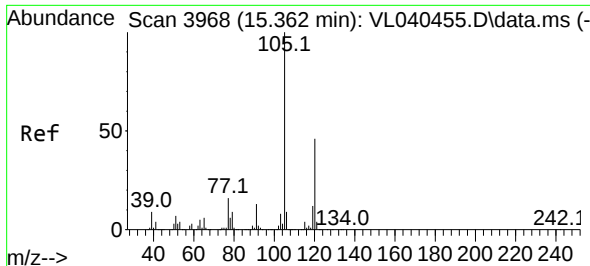
Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 10.142 ppbv
RT: 13.789 min Scan# 3479
Delta R.T. 0.006 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

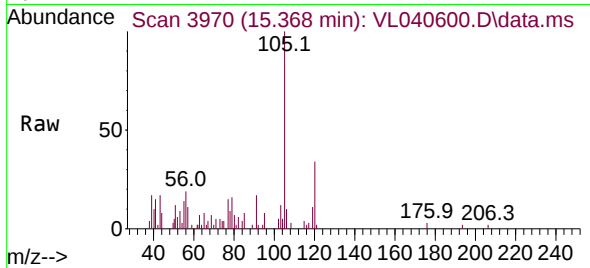
Tgt Ion: 95 Resp: 2290441
Ion Ratio Lower Upper
95 100
174 60.7 50.6 75.8
175 4.3 3.7 5.5





#73
1,3,5-Trimethylbenzene
Concen: 0.079 ppbv m
RT: 15.368 min Scan# 3968
Delta R.T. 0.006 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53

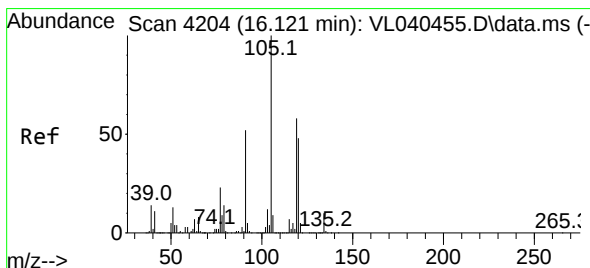
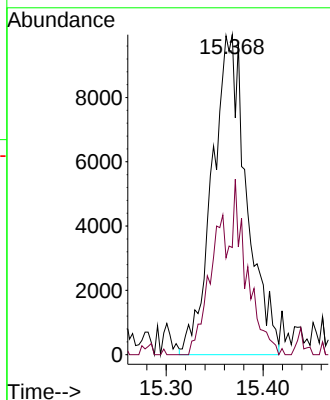
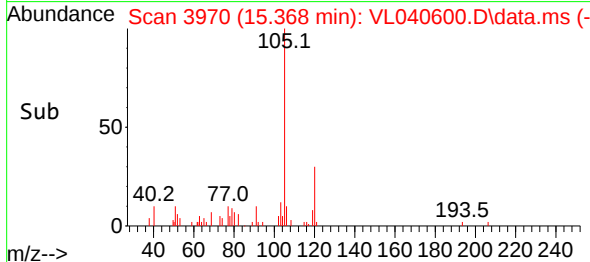
Instrument :
MSVOA_L
ClientSampleId :
SV-1



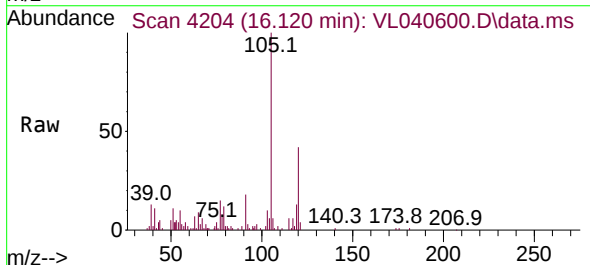
Tgt Ion:105 Resp: 24714
Ion Ratio Lower Upper
105 100
120 33.5 38.2 57.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/08/2023
Supervised By :Mahesh Dadoda 08/09/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.192 ppbv
RT: 16.120 min Scan# 4204
Delta R.T. 0.003 min
Lab File: VL040600.D
Acq: 7 Aug 2023 15:53



Tgt Ion:105 Resp: 70593
Ion Ratio Lower Upper
105 100
120 41.6 40.3 60.5
91 15.8 46.8 70.2#
77 11.6 18.6 28.0#

