

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071023\
 Data File : VL040516.D
 Acq On : 10 Jul 2023 21:12
 Operator : SY/MD
 Sample : 03535-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/11/2023
 Supervised By :Mahesh Dadoda 07/11/2023

Quant Time: Jul 11 02:10:45 2023

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

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

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	926986	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2367245	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2022078	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1550300	9.687	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.900%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.735	85	80492	0.434	ppbv	97
3) Chlorodifluoromethane	2.681	51	140047	0.953	ppbv	95
4) Chloromethane	2.822	50	33311	0.572	ppbv	100
9) Propene	2.706	41	62546	1.243	ppbv #	76
10) Heptane	7.590	43	25754m	0.232	ppbv	
11) Trichlorofluoromethane	3.568	101	46638	0.312	ppbv	93
13) Ethanol	3.243	45	148802	13.596	ppbv	99
15) Acetone	3.472	43	928343	8.700	ppbv	97
17) tert-Butyl alcohol	3.896	59	25700	0.233	ppbv #	91
20) Methylene Chloride	3.938	84	281401	6.200	ppbv	97
26) Hexane	5.214	57	181888	1.927	ppbv #	41
29) Chloroform	5.275	83	12780m	0.082	ppbv	
34) 2-Butanone	4.796	43	56894	0.486	ppbv	91
35) Carbon Tetrachloride	6.491	117	11157	0.078	ppbv #	64
36) Benzene	6.378	78	56396	0.296	ppbv #	92
44) 2,2,4-Trimethylpentane	7.327	57	76433m	0.249	ppbv	
52) Tetrachloroethene	10.616	164	8767m	0.142	ppbv	
53) Toluene	9.224	91	478880	2.315	ppbv	98
58) Ethyl Benzene	12.092	91	69772	0.275	ppbv	94
59) m/p-Xylene	12.349	91	219658	0.970	ppbv	97
60) o-Xylene	13.060	91	106582	0.494	ppbv	93
61) Styrene	12.905	104	56702	0.570	ppbv #	85
69) p-Isopropyltoluene	16.995	119	80152m	0.231	ppbv	
73) 1,3,5-Trimethylbenzene	15.358	105	35925	0.161	ppbv	94
74) 1,2,4-Trimethylbenzene	16.117	105	148077m	0.570	ppbv	

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

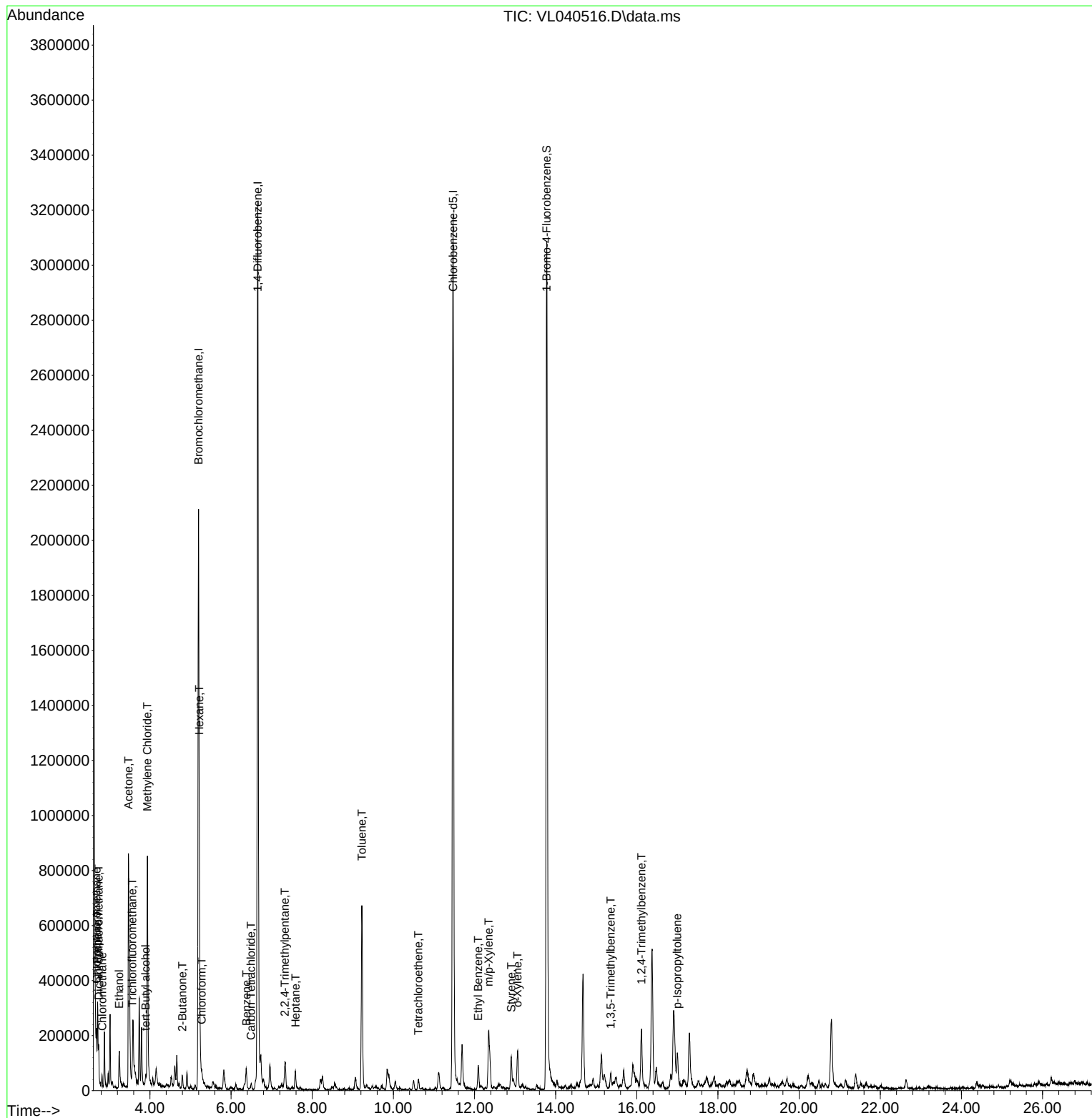
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071023\
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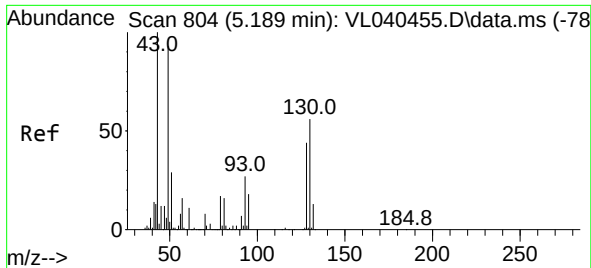
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Jul 11 02:10:45 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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Manual Integrations
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Reviewed By : Semsettin Yesilyurt 07/11/2023
Supervised By : Mahesh Dadoda 07/11/2023





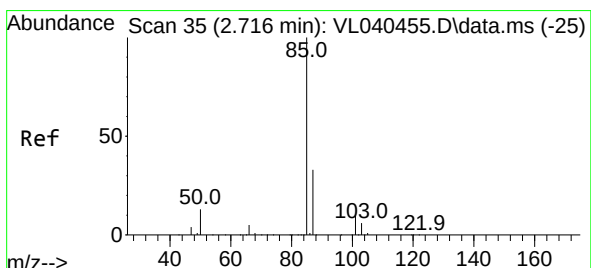
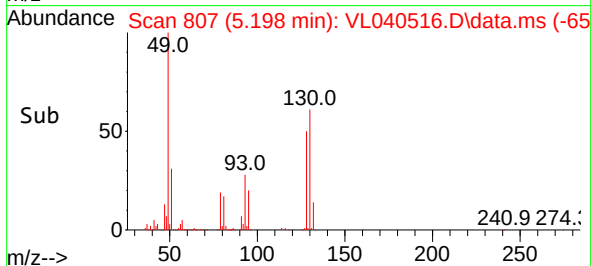
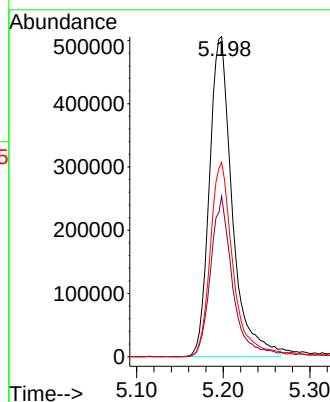
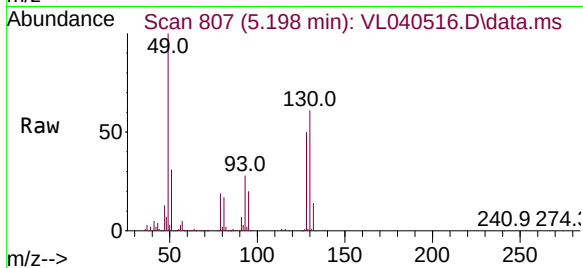
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.004 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 926980
Ion Ratio Lower Upper
49 100
128 49.4 25.1 75.4
130 62.1 31.6 94.7

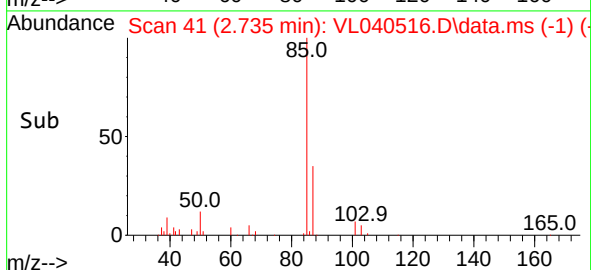
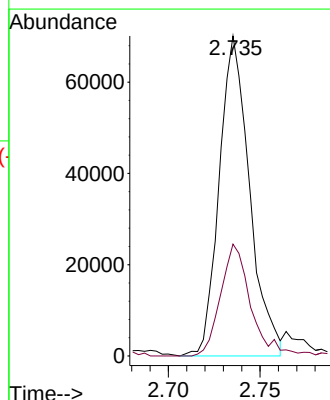
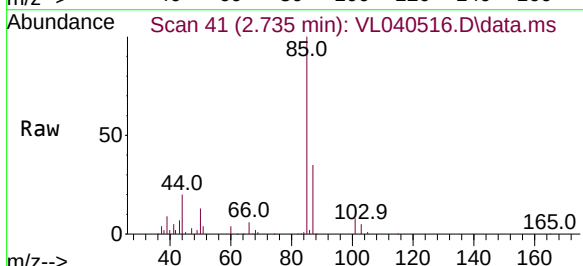
Manual Integrations
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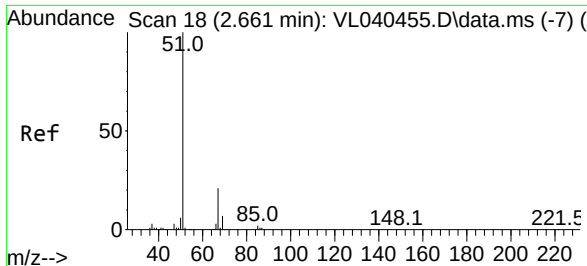
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#2
Dichlorodifluoromethane
Concen: 0.434 ppbv
RT: 2.735 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

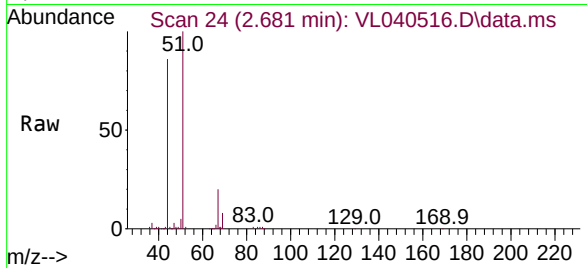
Tgt Ion: 85 Resp: 80492
Ion Ratio Lower Upper
85 100
87 35.0 26.8 40.2





#3
Chlorodifluoromethane
Concen: 0.953 ppbv
RT: 2.681 min Scan# 24
Delta R.T. -0.003 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

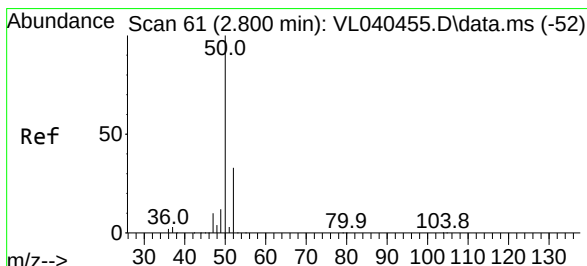
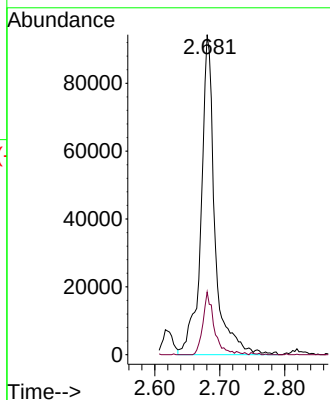
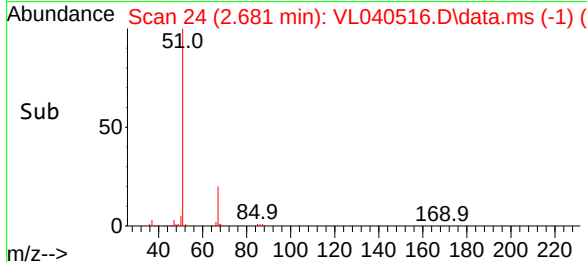
Instrument :
MSVOA_L
ClientSampleId :
IA1



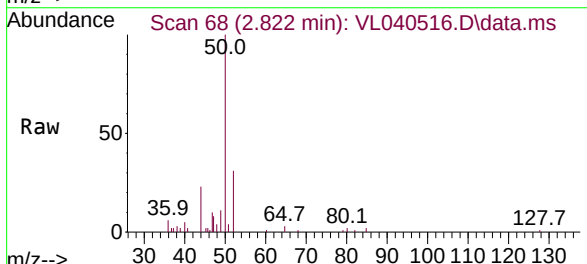
Tgt Ion: 51 Resp: 14004
Ion Ratio Lower Upper
51 100
67 16.2 14.6 21.8

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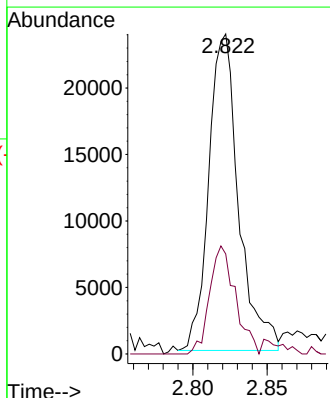
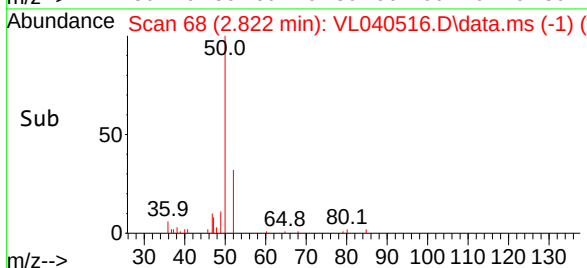
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

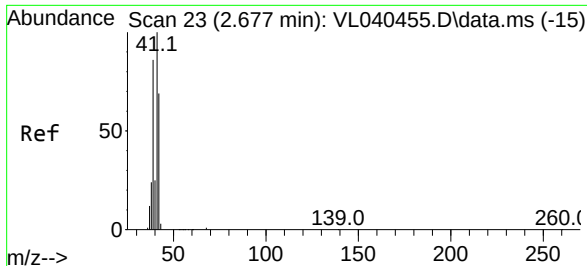


#4
Chloromethane
Concen: 0.572 ppbv
RT: 2.822 min Scan# 68
Delta R.T. -0.000 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12



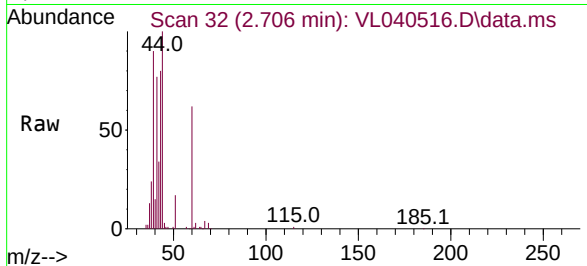
Tgt Ion: 50 Resp: 33311
Ion Ratio Lower Upper
50 100
52 30.5 24.4 36.6





#9
Propene
Concen: 1.243 ppbv
RT: 2.706 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

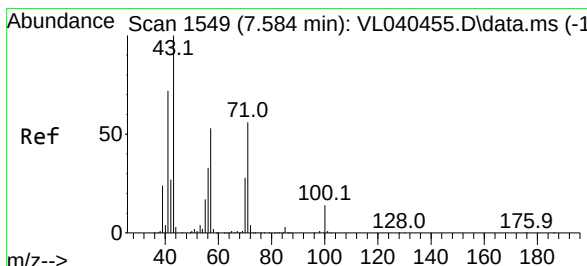
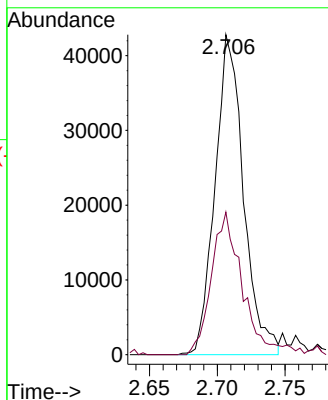
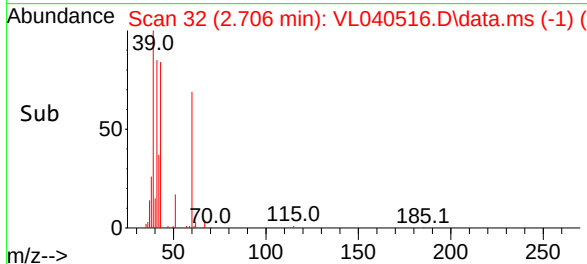
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 41 Resp: 62540
Ion Ratio Lower Upper
41 100
42 49.6 55.0 82.6

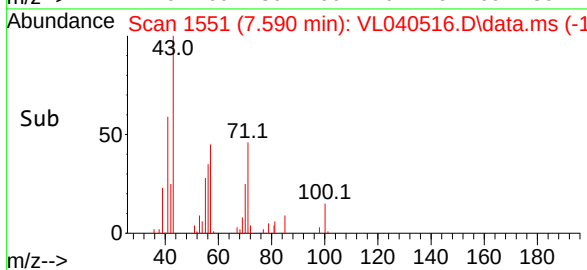
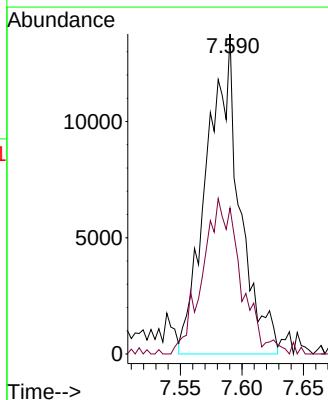
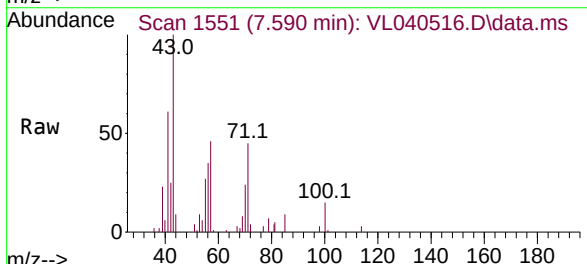
Manual Integrations
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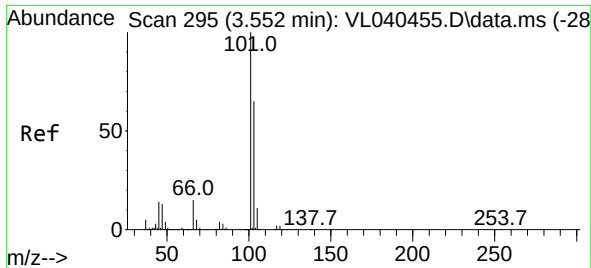
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#10
Heptane
Concen: 0.232 ppbv m
RT: 7.590 min Scan# 1551
Delta R.T. -0.000 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

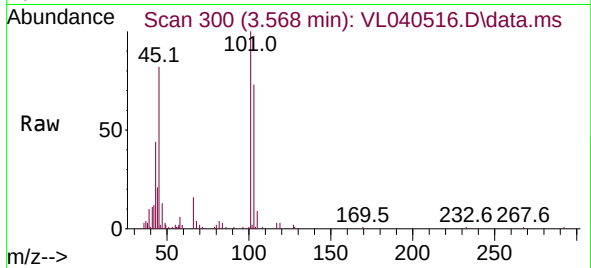
Tgt Ion: 43 Resp: 25754
Ion Ratio Lower Upper
43 100
57 56.6 42.5 63.7





#11
 Trichlorofluoromethane
 Concen: 0.312 ppbv
 RT: 3.568 min Scan# 300
 Delta R.T. -0.003 min
 Lab File: VL040516.D
 Acq: 10 Jul 2023 21:12

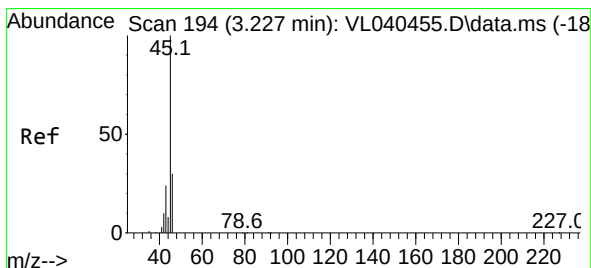
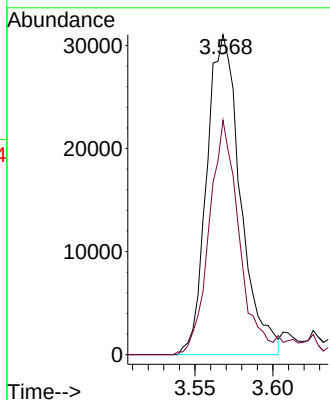
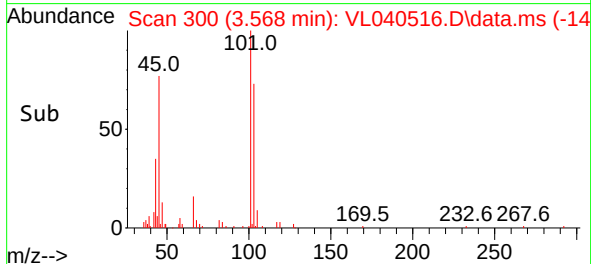
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



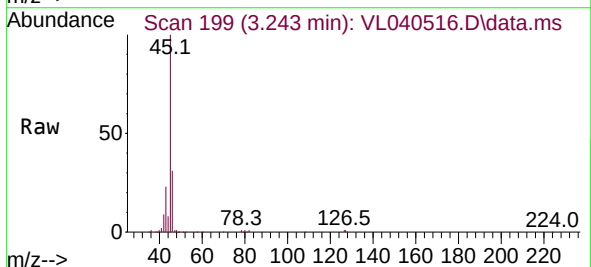
Tgt Ion:101 Resp: 46638
 Ion Ratio Lower Upper
 101 100
 103 72.4 53.4 80.0

Manual Integrations
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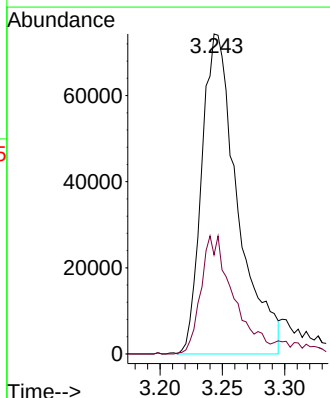
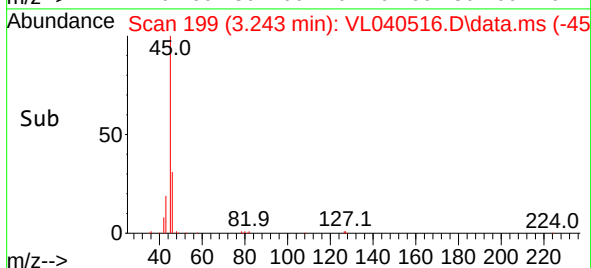
Reviewed By :Semsettin Yesilyurt 07/11/2023
 Supervised By :Mahesh Dadoda 07/11/2023

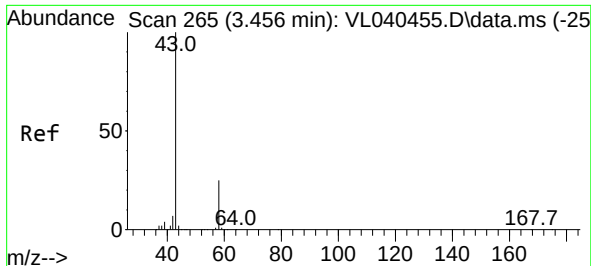


#13
 Ethanol
 Concen: 13.596 ppbv
 RT: 3.243 min Scan# 199
 Delta R.T. -0.003 min
 Lab File: VL040516.D
 Acq: 10 Jul 2023 21:12



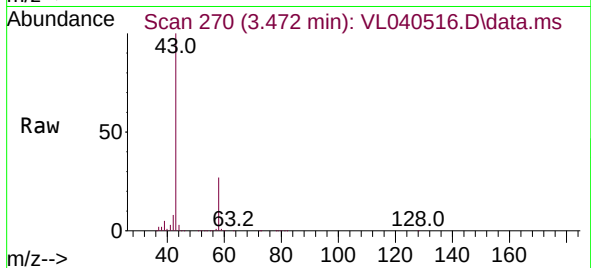
Tgt Ion: 45 Resp: 148802
 Ion Ratio Lower Upper
 45 100
 46 38.8 15.3 61.1





#15
Acetone
Concen: 8.700 ppbv
RT: 3.472 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

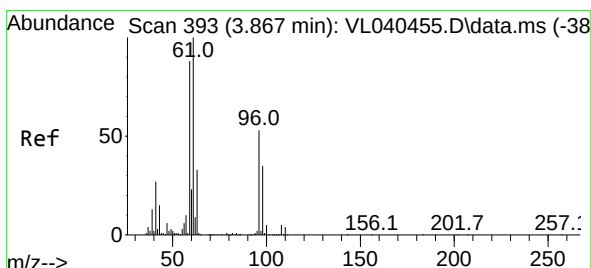
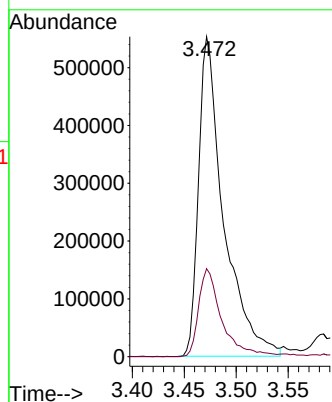
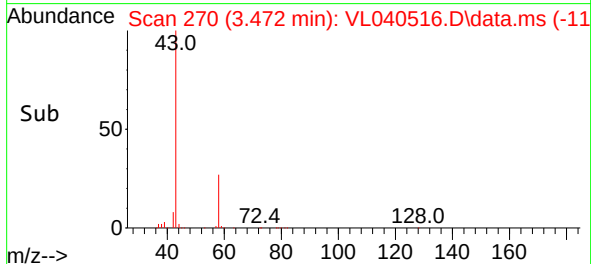
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 92834
Ion Ratio Lower Upper
43 100
58 26.9 22.9 34.3

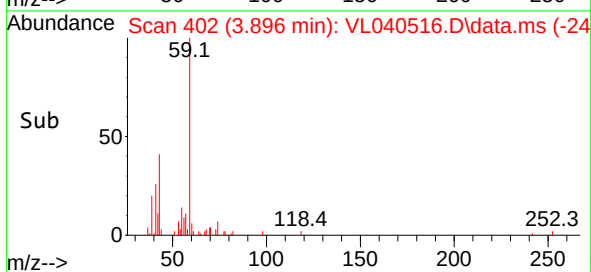
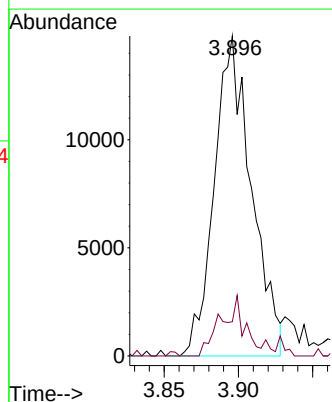
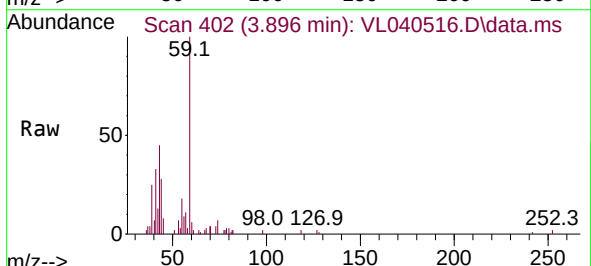
Manual Integrations
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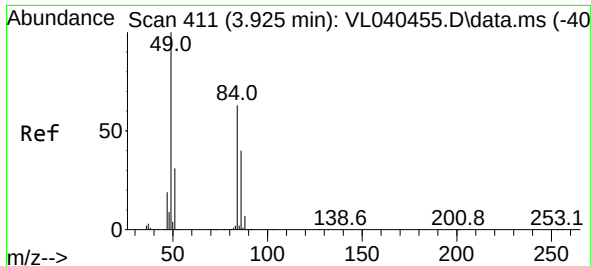
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#17
tert-Butyl alcohol
Concen: 0.233 ppbv
RT: 3.896 min Scan# 402
Delta R.T. 0.013 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

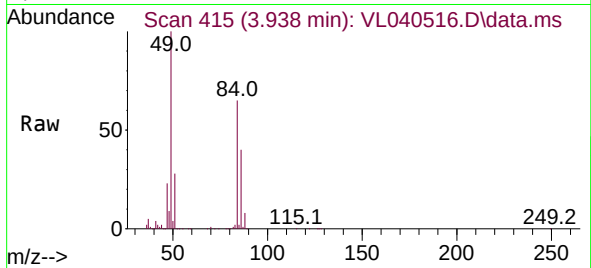
Tgt Ion: 59 Resp: 25700
Ion Ratio Lower Upper
59 100
57 14.3 8.7 13.1#





#20
Methylene Chloride
Concen: 6.200 ppbv
RT: 3.938 min Scan# 411
Delta R.T. -0.003 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

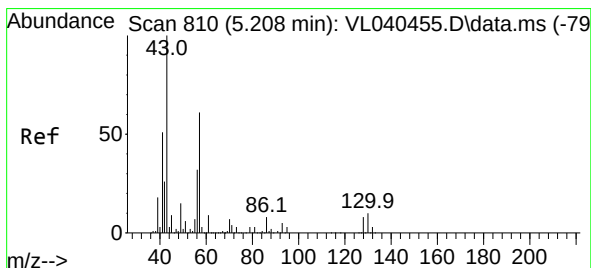
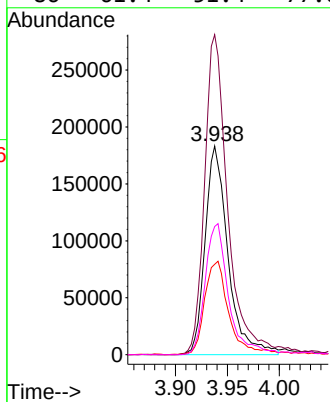
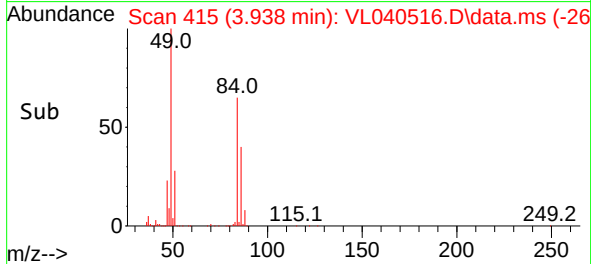
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 28140
Ion Ratio Lower Upper
84 100
49 153.2 123.4 185.2
51 43.2 38.3 57.5
86 61.4 51.4 77.0

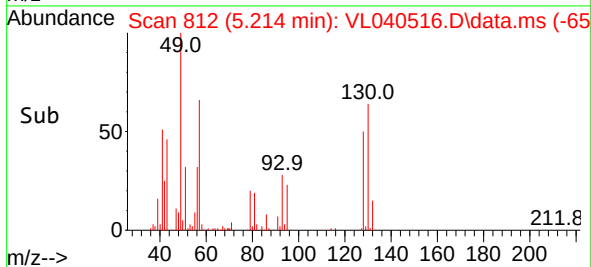
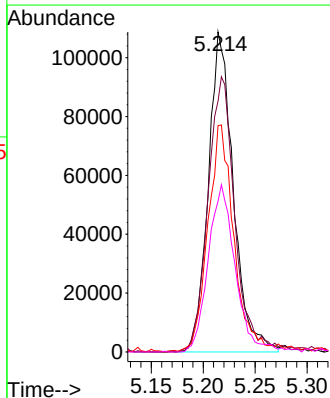
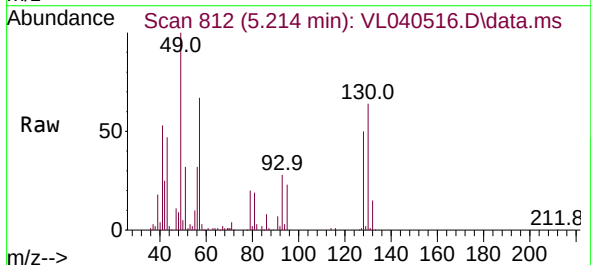
Manual Integrations
APPROVED

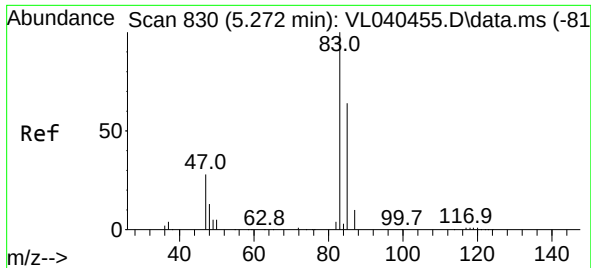
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#26
Hexane
Concen: 1.927 ppbv
RT: 5.214 min Scan# 812
Delta R.T. -0.007 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

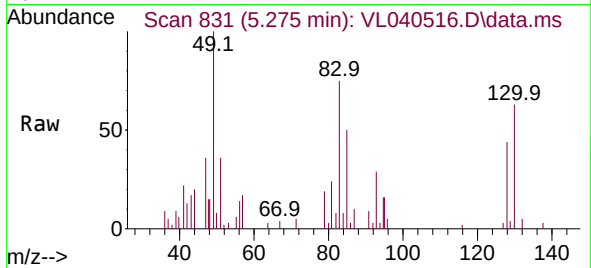
Tgt Ion: 57 Resp: 181888
Ion Ratio Lower Upper
57 100
41 94.5 69.5 104.3
43 74.1 177.1 265.7#
56 56.7 42.3 63.5





#29
Chloroform
Concen: 0.082 ppbv m
RT: 5.275 min Scan# 81
Delta R.T. -0.010 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

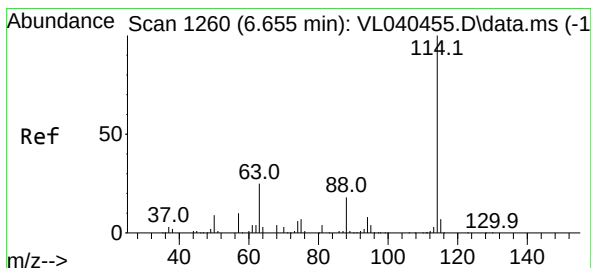
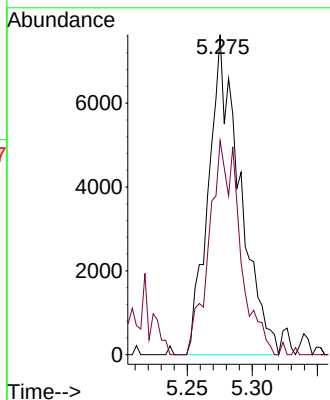
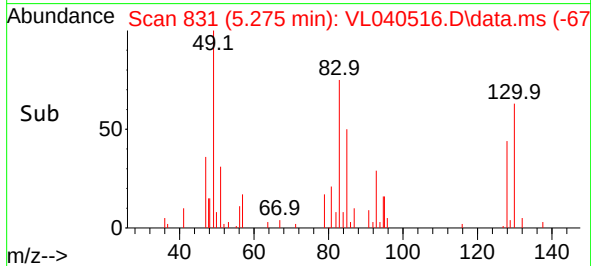
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 83 Resp: 12780
Ion Ratio Lower Upper
83 100
85 66.9 51.1 76.7

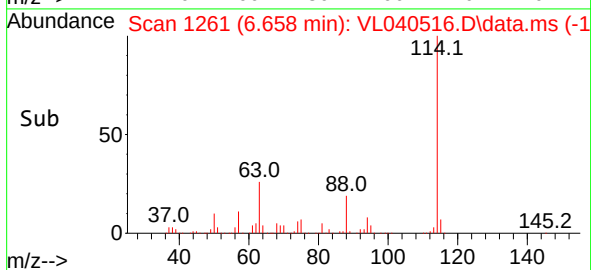
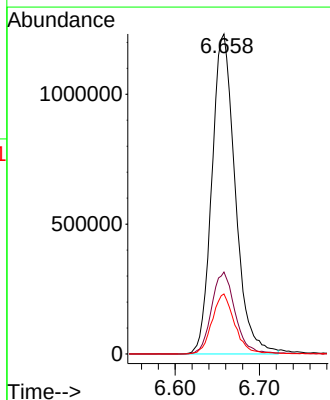
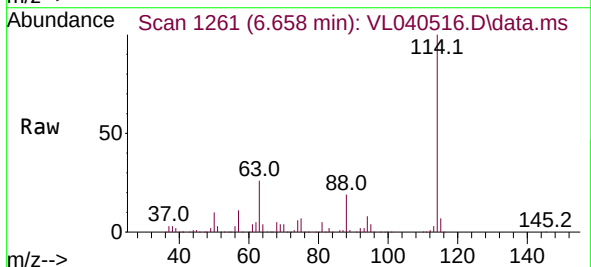
Manual Integrations
APPROVED

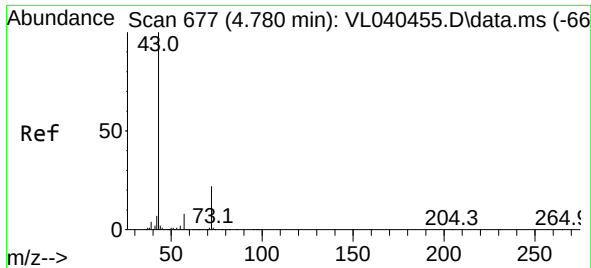
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.007 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

Tgt Ion:114 Resp: 2367245
Ion Ratio Lower Upper
114 100
63 26.1 19.6 29.4
88 18.5 14.2 21.2





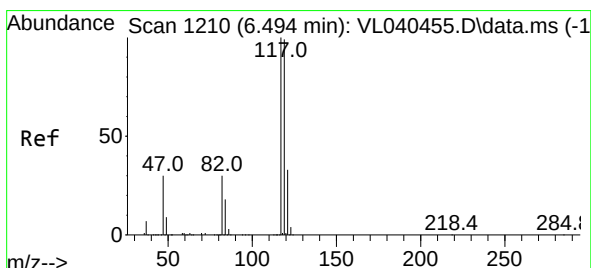
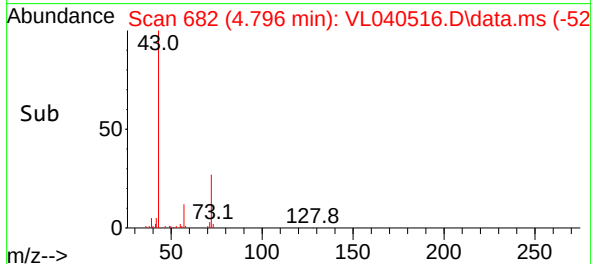
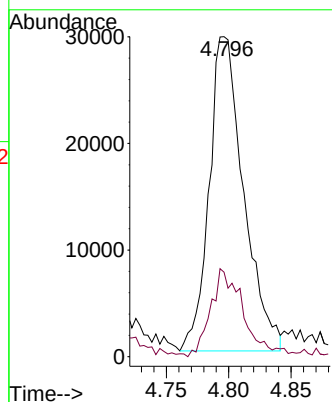
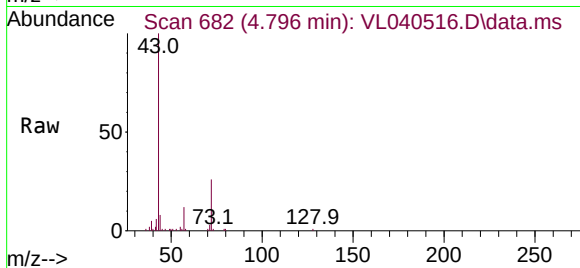
#34
2-Butanone
Concen: 0.486 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 56894
Ion Ratio Lower Upper
43 100
72 28.3 19.1 28.7

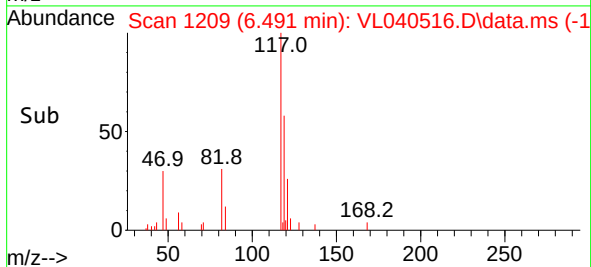
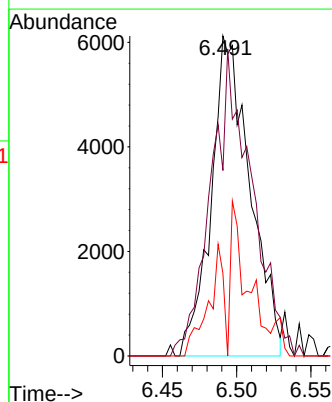
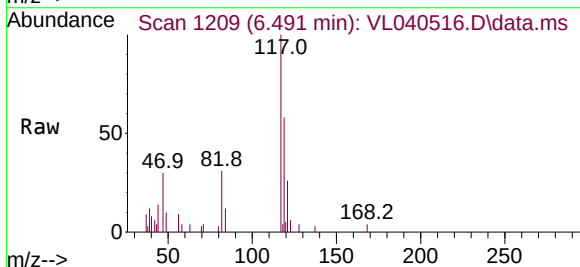
Manual Integrations
APPROVED

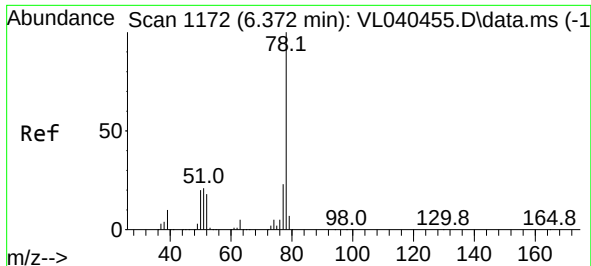
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#35
Carbon Tetrachloride
Concen: 0.078 ppbv
RT: 6.491 min Scan# 1209
Delta R.T. -0.013 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

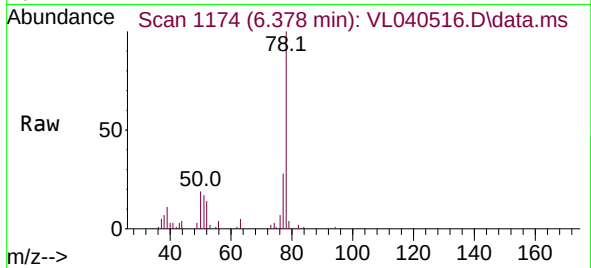
Tgt Ion:117 Resp: 11157
Ion Ratio Lower Upper
117 100
119 52.9 77.8 116.6#
121 25.8 24.8 37.2





#36
Benzene
Concen: 0.296 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. -0.003 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

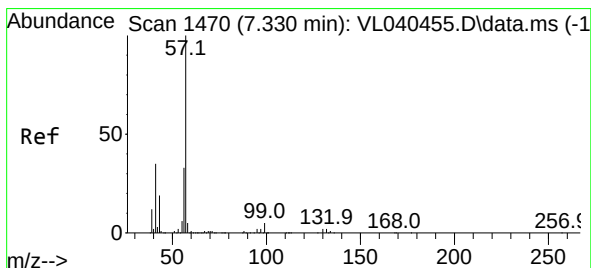
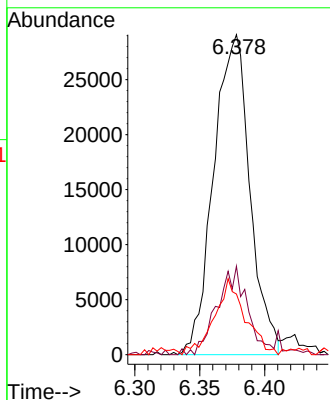
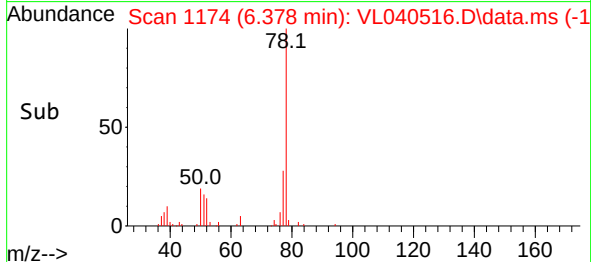
Instrument :
MSVOA_L
ClientSampleId :
IA1



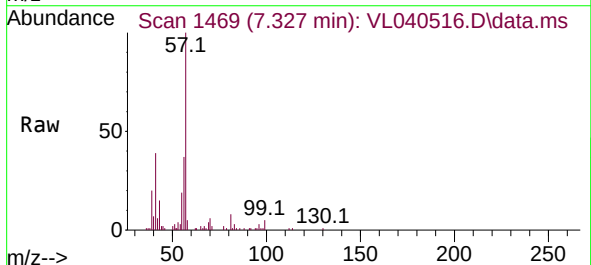
Tgt Ion: 78 Resp: 56390
Ion Ratio Lower Upper
78 100
77 27.7 17.4 26.0#
50 18.9 14.4 21.6#

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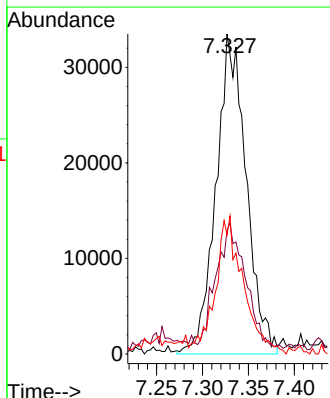
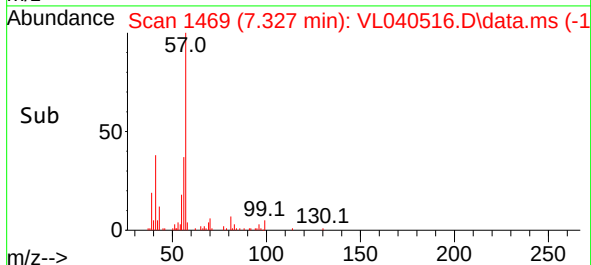
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

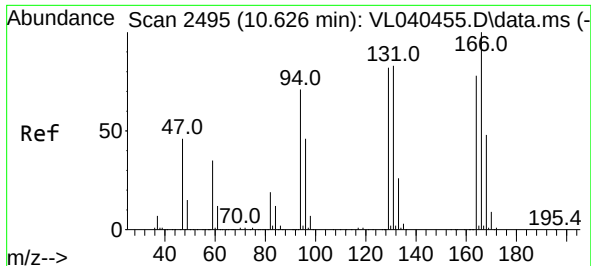


#44
2,2,4-Trimethylpentane
Concen: 0.249 ppbv m
RT: 7.327 min Scan# 1469
Delta R.T. -0.010 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12



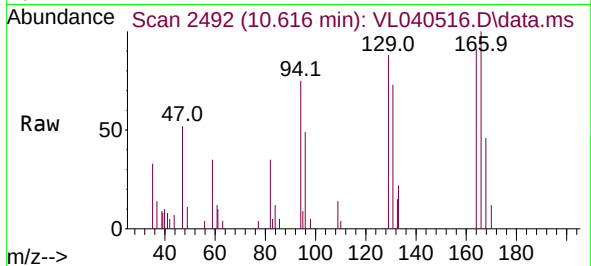
Tgt Ion: 57 Resp: 76433
Ion Ratio Lower Upper
57 100
41 44.0 25.5 38.3#
56 42.2 25.1 37.7#





#52
Tetrachloroethene
Concen: 0.142 ppbv m
RT: 10.616 min Scan# 2495
Delta R.T. -0.010 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

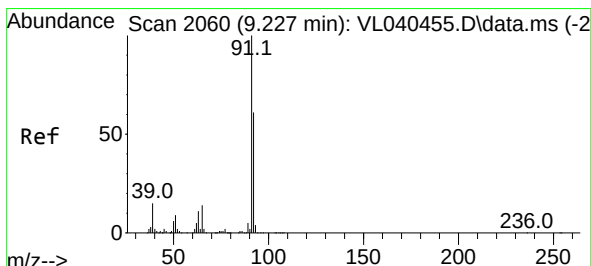
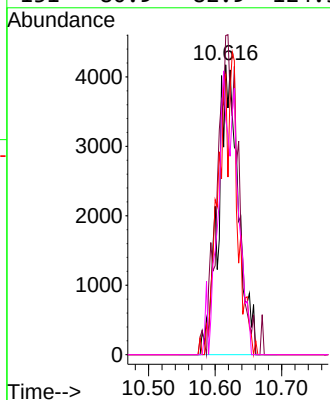
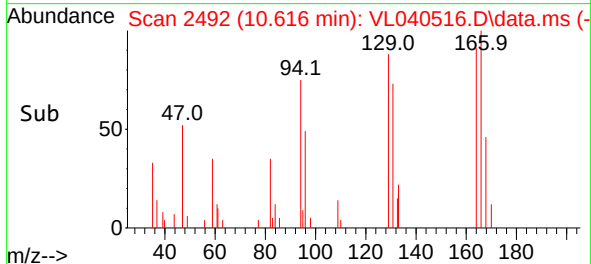
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 876
Ion Ratio Lower Upper
164 100
166 110.1 103.9 155.9
129 96.7 84.6 126.8
131 80.9 82.9 124.3#

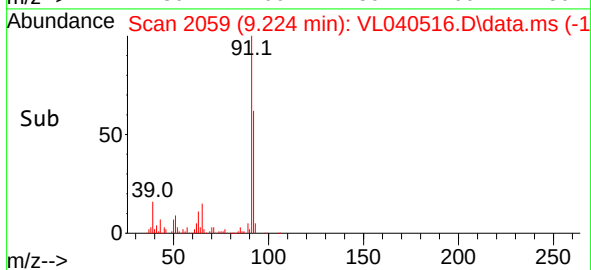
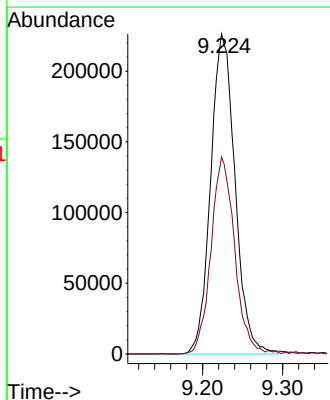
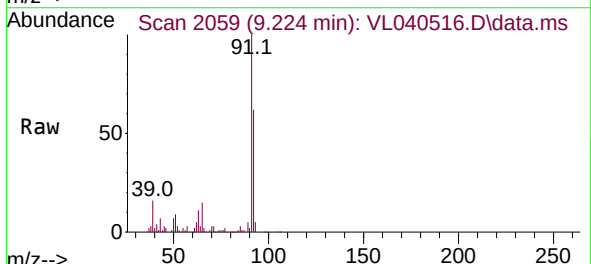
Manual Integrations
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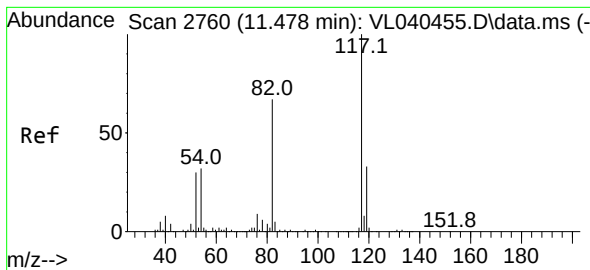
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#53
Toluene
Concen: 2.315 ppbv
RT: 9.224 min Scan# 2059
Delta R.T. -0.007 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

Tgt Ion: 91 Resp: 478880
Ion Ratio Lower Upper
91 100
92 60.0 49.1 73.7





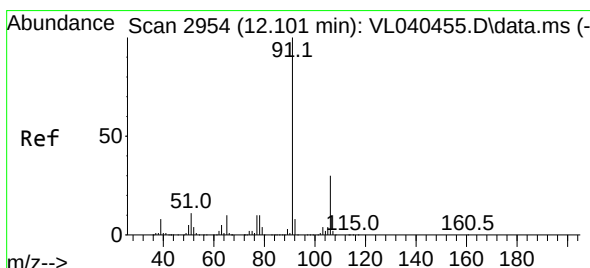
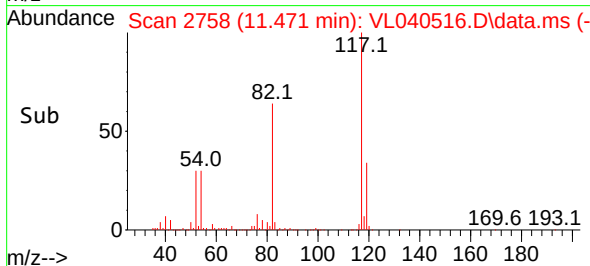
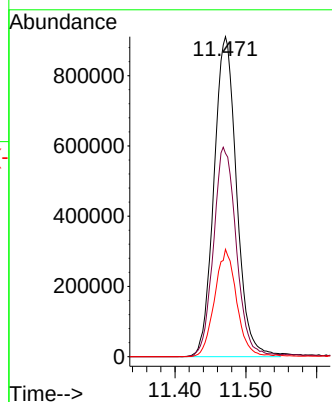
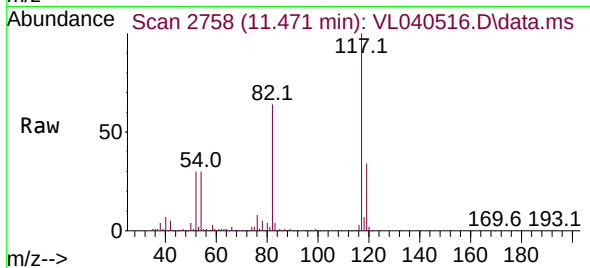
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:117 Resp: 2022078
Ion Ratio Lower Upper
117 100
82 67.2 50.2 75.4
119 33.0 26.9 40.3

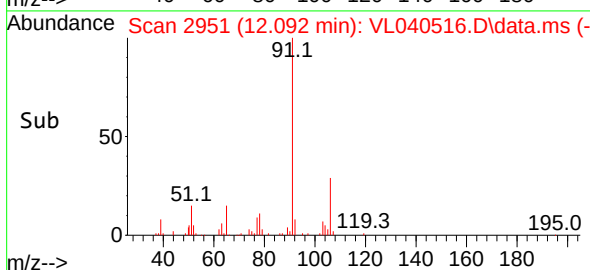
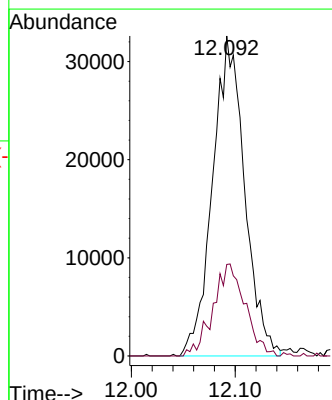
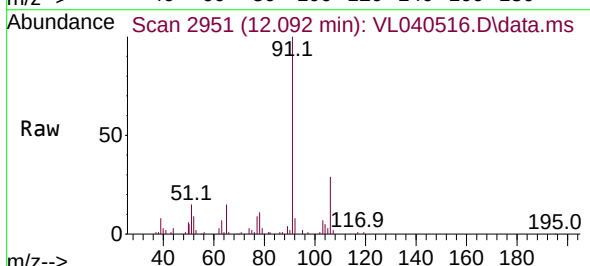
Manual Integrations
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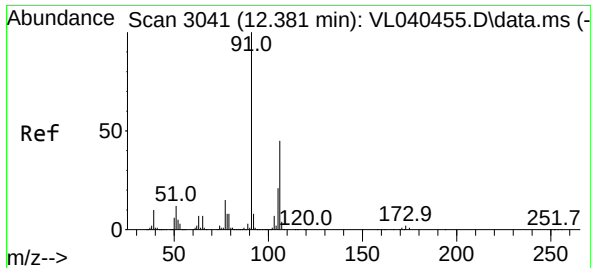
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#58
Ethyl Benzene
Concen: 0.275 ppbv
RT: 12.092 min Scan# 2951
Delta R.T. -0.010 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

Tgt Ion: 91 Resp: 69772
Ion Ratio Lower Upper
91 100
106 28.6 25.4 38.0





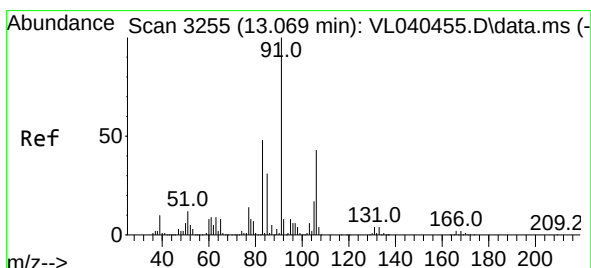
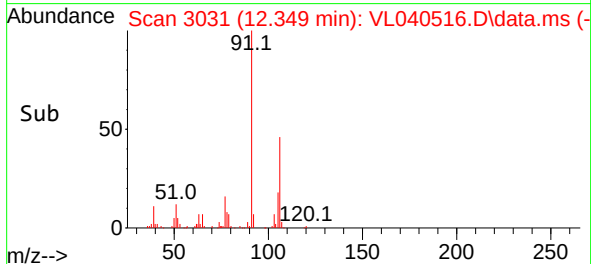
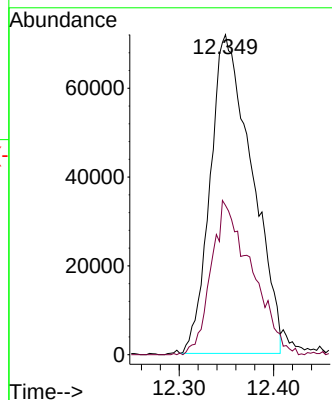
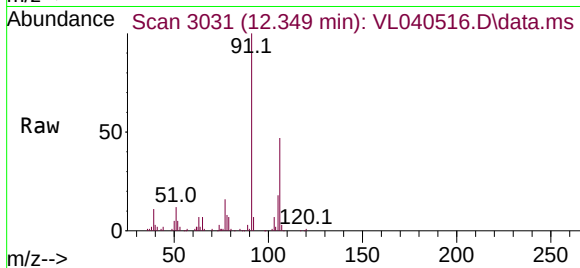
#59
m/p-Xylene
Concen: 0.970 ppbv
RT: 12.349 min Scan# 3041
Delta R.T. -0.036 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 219658
Ion Ratio Lower Upper
91 100
106 47.0 35.9 53.9

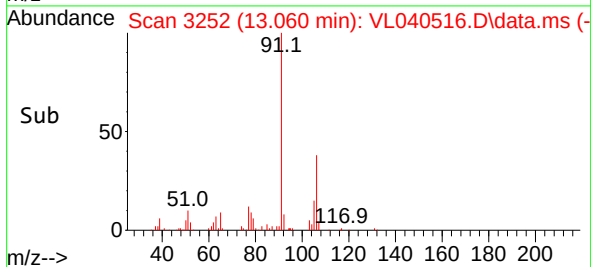
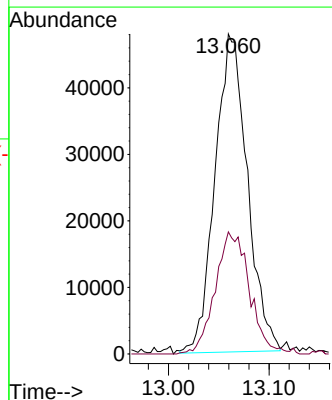
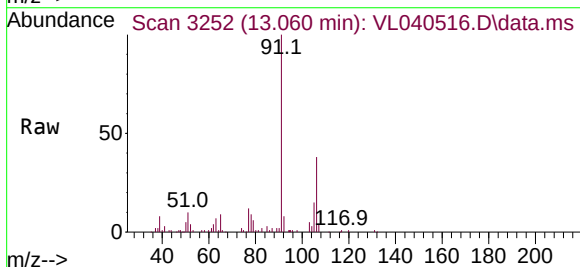
Manual Integrations
APPROVED

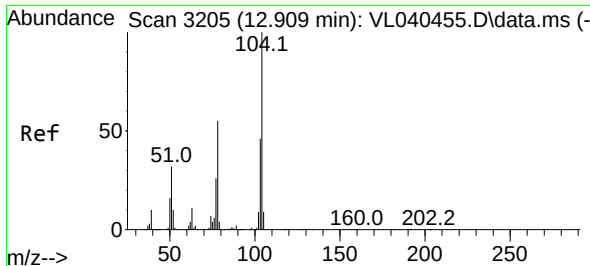
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#60
o-Xylene
Concen: 0.494 ppbv
RT: 13.060 min Scan# 3252
Delta R.T. -0.010 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

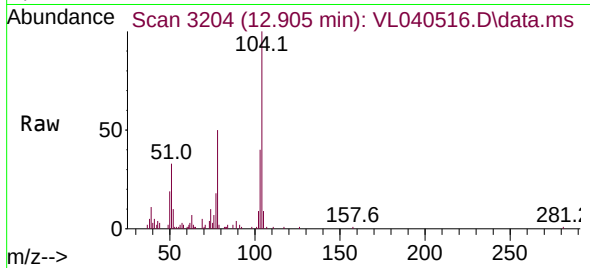
Tgt Ion: 91 Resp: 106582
Ion Ratio Lower Upper
91 100
106 40.9 22.7 68.0





#61
Styrene
Concen: 0.570 ppbv
RT: 12.905 min Scan# 31
Delta R.T. -0.007 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

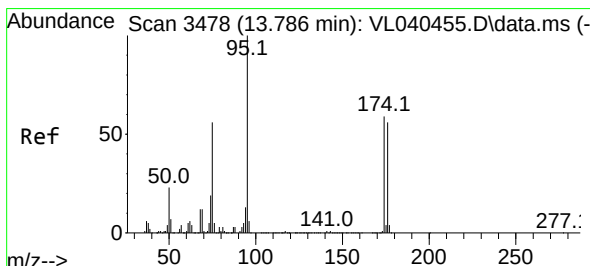
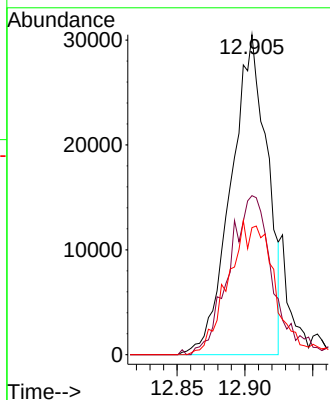
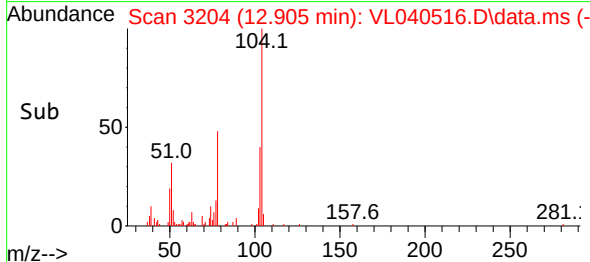
Instrument :
MSVOA_L
ClientSampleId :
IA1



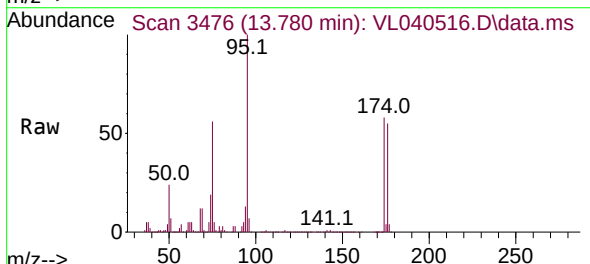
Tgt Ion:104 Resp: 56702
Ion Ratio Lower Upper
104 100
78 62.1 40.1 60.1
103 54.5 37.0 55.4

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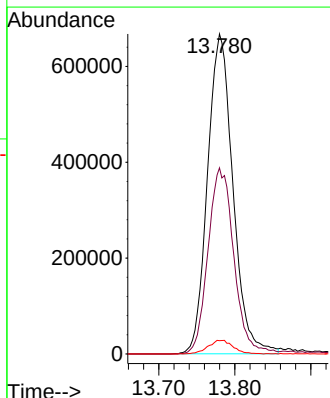
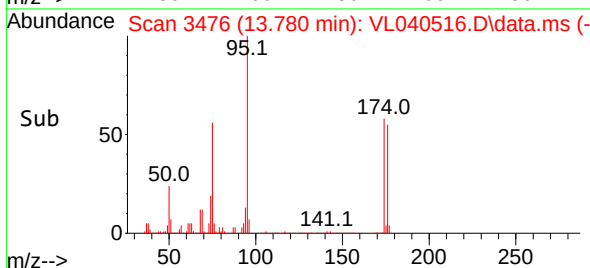
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

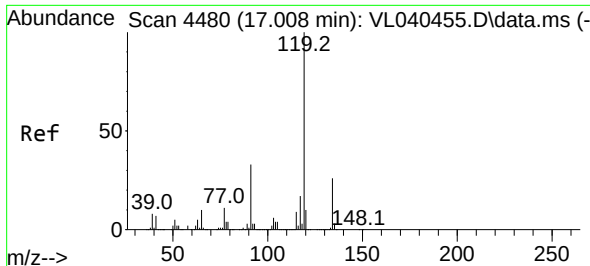


#68
1-Bromo-4-Fluorobenzene
Concen: 9.687 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. -0.003 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12



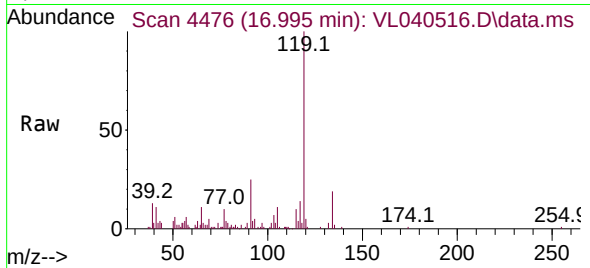
Tgt Ion: 95 Resp: 1550300
Ion Ratio Lower Upper
95 100
174 59.7 50.6 75.8
175 4.3 3.7 5.5





#69
p-Isopropyltoluene
Concen: 0.231 ppbv m
RT: 16.995 min Scan# 4480
Delta R.T. -0.010 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

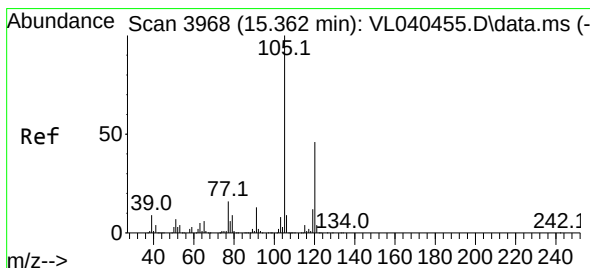
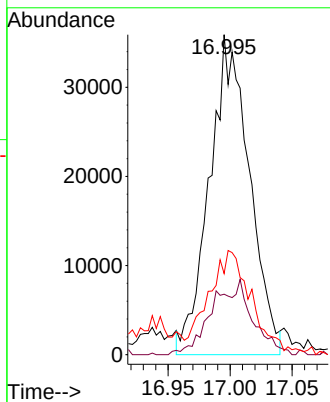
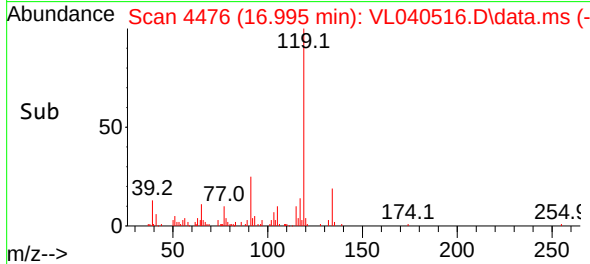
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:119 Resp: 80152
Ion Ratio Lower Upper
119 100
134 0.0 20.5 30.7
91 36.9 23.8 35.8

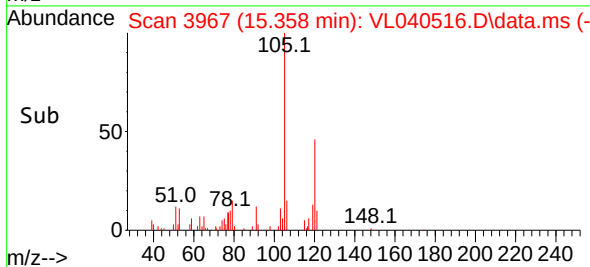
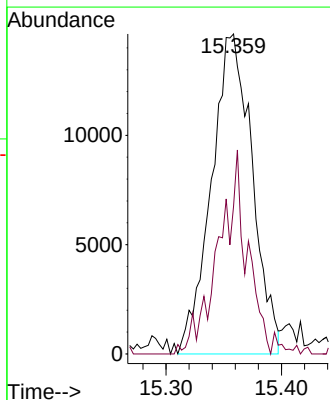
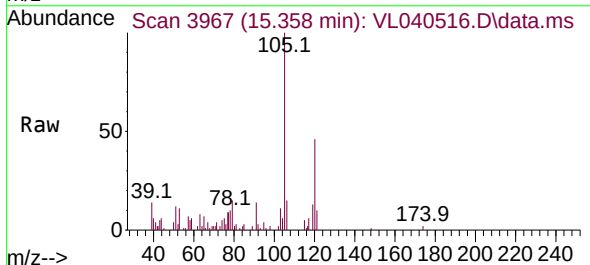
Manual Integrations
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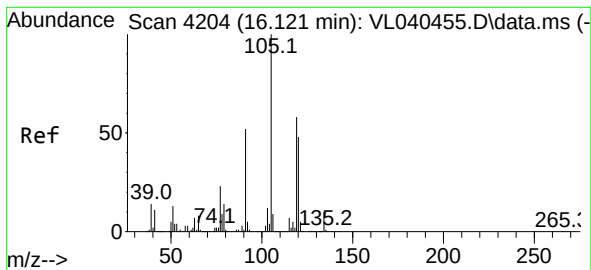
Reviewed By :Semsettin Yesilyurt 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#73
1,3,5-Trimethylbenzene
Concen: 0.161 ppbv
RT: 15.358 min Scan# 3967
Delta R.T. -0.003 min
Lab File: VL040516.D
Acq: 10 Jul 2023 21:12

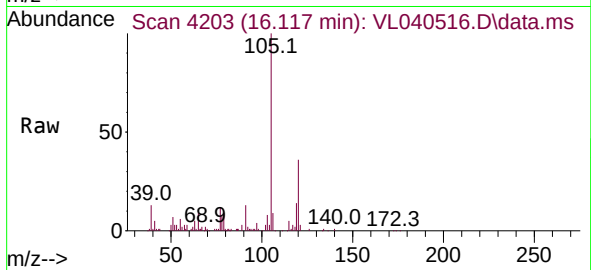
Tgt Ion:105 Resp: 35925
Ion Ratio Lower Upper
105 100
120 43.4 38.2 57.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.570 ppbv m
 RT: 16.117 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL040516.D
 Acq: 10 Jul 2023 21:12

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:105 Resp: 14807
 Ion Ratio Lower Upper
 105 100
 120 36.5 40.3 60.5
 91 12.8 46.8 70.2
 77 12.4 18.6 28.0#

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/11/2023
 Supervised By :Mahesh Dadoda 07/11/2023

