

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040701.D
 Acq On : 18 Sep 2023 16:24
 Operator : SY/MD
 Sample : 04402-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023

Quant Time: Sep 19 05:19:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 18 2023
 QLast Update : Tue Sep 19 05:12:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	1043552	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2672014	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	2204657	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1728577	10.148	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.500%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.742	85	116344	0.506	ppbv	100
4) Chloromethane	2.829	50	37636	0.578	ppbv	93
9) Propene	2.716	41	53983m	1.102	ppbv	
10) Heptane	7.597	43	59298	0.537	ppbv	99
11) Trichlorofluoromethane	3.581	101	50145m	0.248	ppbv	
13) Ethanol	3.253	45	1991487	137.379	ppbv	96
15) Acetone	3.481	43	2307792m	16.766	ppbv	
17) tert-Butyl alcohol	3.902	59	46153m	0.327	ppbv	
19) Isopropyl Alcohol	3.594	45	364868	4.399	ppbv #	1
20) Methylene Chloride	3.951	84	3049006	41.155	ppbv	98
26) Hexane	5.230	57	2160150	20.578	ppbv #	39
29) Chloroform	5.288	83	21524m	0.119	ppbv	
30) Cyclohexane	6.619	84	23978m	0.303	ppbv	
34) 2-Butanone	4.803	43	393249	2.926	ppbv	99
35) Carbon Tetrachloride	6.504	117	13049m	0.071	ppbv	
36) Benzene	6.385	78	155799	0.787	ppbv	95
38) Trichloroethene	7.311	130	74395	0.986	ppbv #	84
41) Tetrahydrofuran	5.574	42	184532m	2.678	ppbv	
44) 2,2,4-Trimethylpentane	7.346	57	341594	1.084	ppbv #	84
50) 4-Methyl-2-Pentanone	8.204	43	52780m	0.291	ppbv	
52) Tetrachloroethene	10.626	164	6920m	0.107	ppbv	
53) Toluene	9.237	91	982226	4.702	ppbv	99
58) Ethyl Benzene	12.101	91	71926	0.286	ppbv #	88
59) m/p-Xylene	12.368	91	222613m	0.943	ppbv	
60) o-Xylene	13.076	91	72750	0.323	ppbv	99
72) 4-Ethyltoluene	15.198	105	28865m	0.114	ppbv	
73) 1,3,5-Trimethylbenzene	15.368	105	37540m	0.165	ppbv	
74) 1,2,4-Trimethylbenzene	16.130	105	123047m	0.444	ppbv	

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

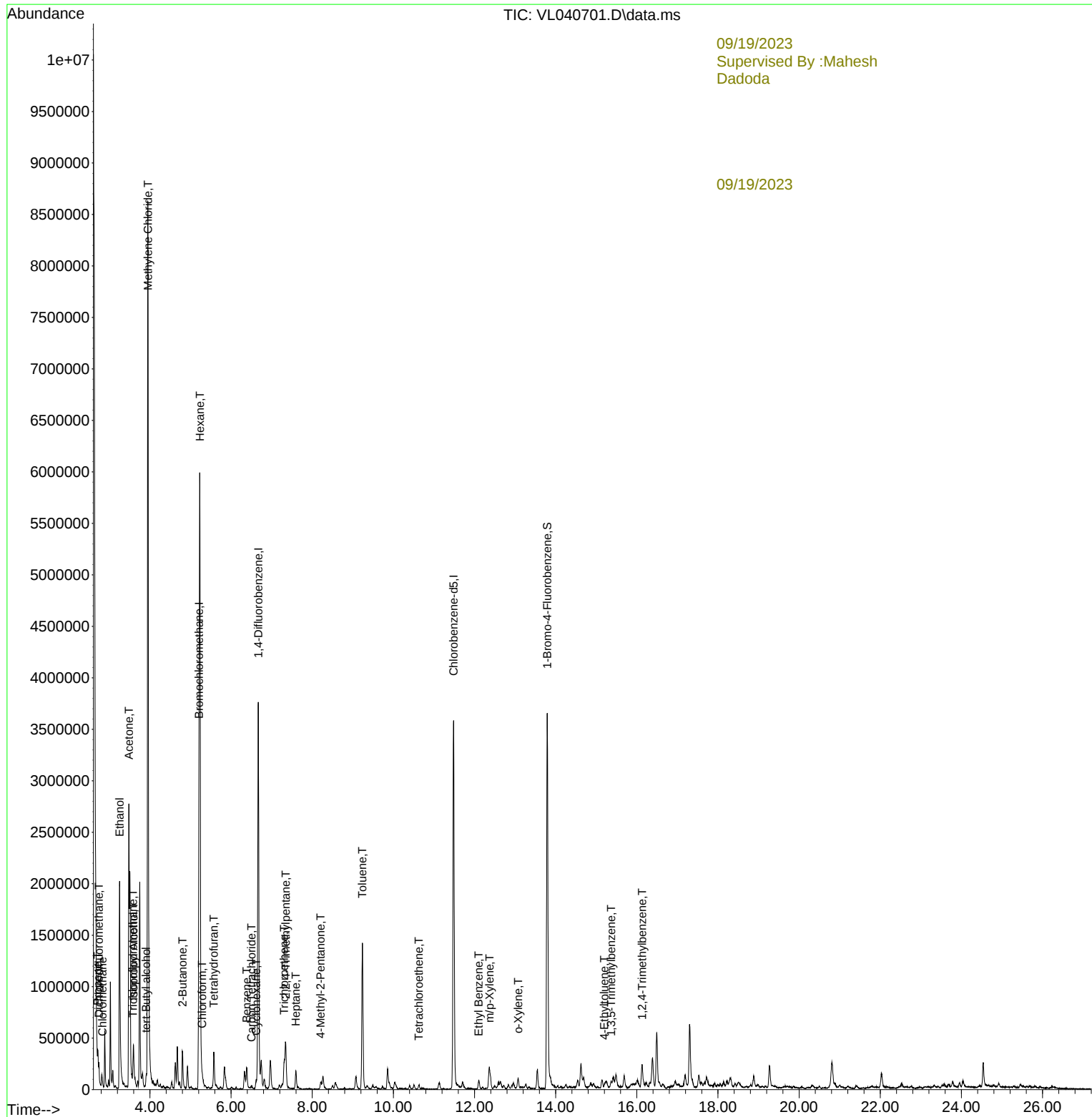
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
Data File : VL040701.D
Acq On : 18 Sep 2023 16:24
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Misc : 400mL/MSVOA_L
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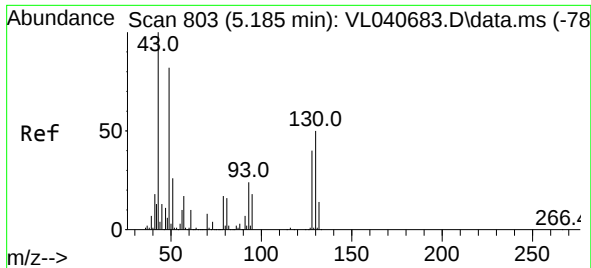
Instrument :
MSVOA_L
ClientSampleId :
ST-3

Quant Time: Sep 19 05:19:19 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 19 05:12:43 2023
Response via : Initial Calibration

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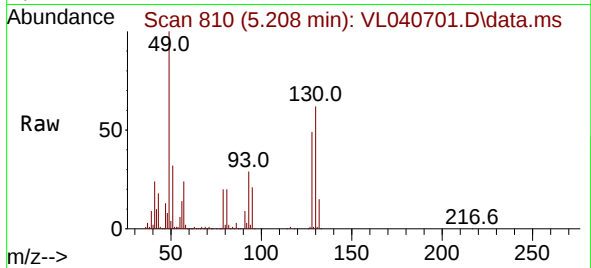
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Supervised By : Mahesh Dadoda 09/19/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

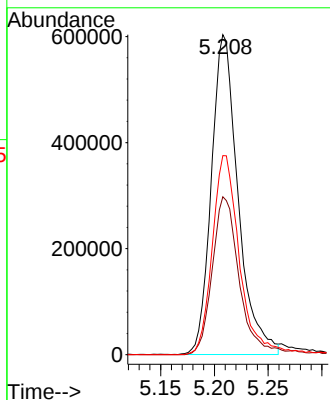
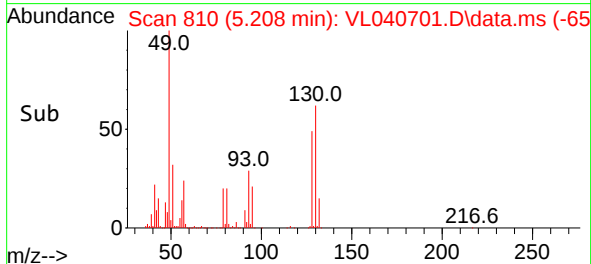
Instrument :
MSVOA_L
ClientSampleId :
ST-3



Tgt Ion: 49 Resp: 104355
Ion Ratio Lower Upper
49 100
128 51.2 25.4 76.0
130 64.7 32.3 96.8

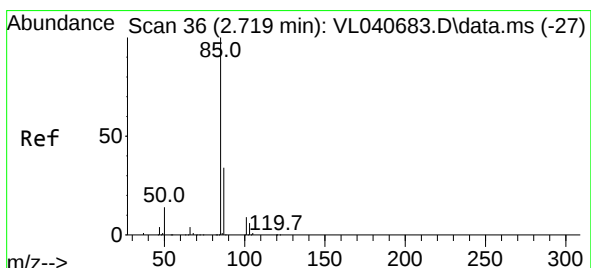
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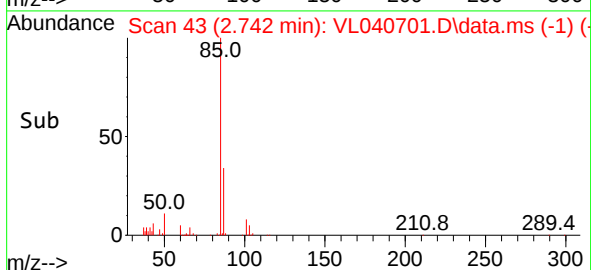
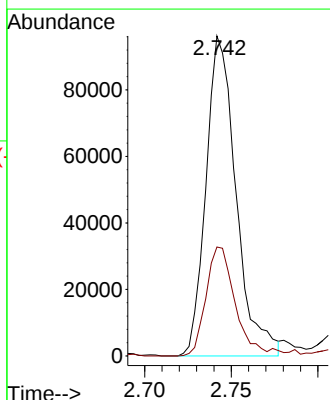
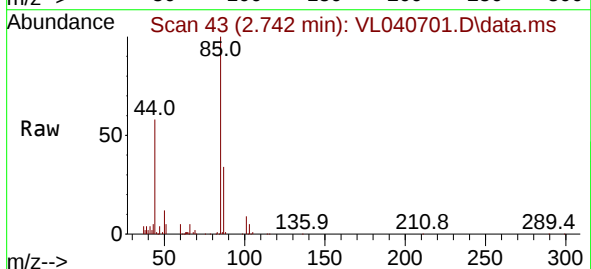
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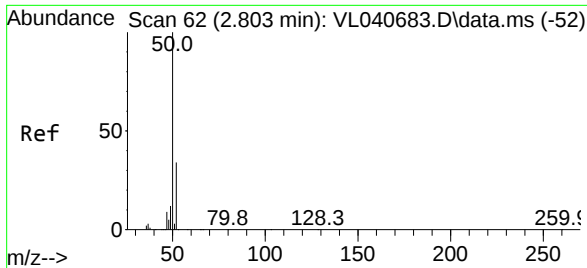
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#2
Dichlorodifluoromethane
Concen: 0.506 ppbv
RT: 2.742 min Scan# 43
Delta R.T. 0.010 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

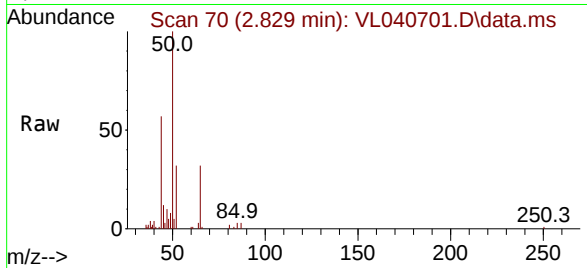
Tgt Ion: 85 Resp: 116344
Ion Ratio Lower Upper
85 100
87 34.1 27.2 40.8





#4
Chloromethane
Concen: 0.578 ppbv
RT: 2.829 min Scan# 70
Delta R.T. 0.013 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

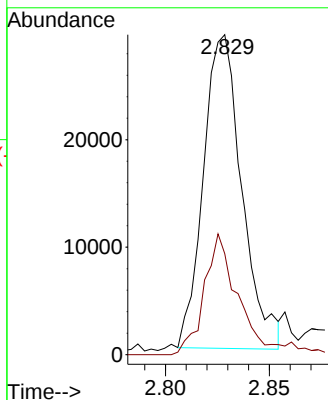
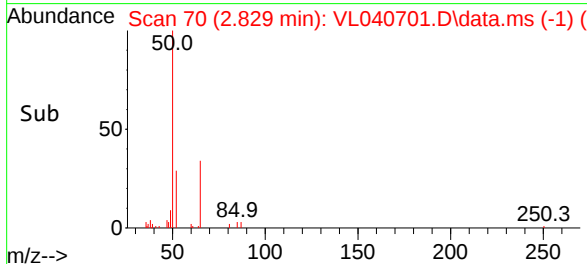
Instrument :
MSVOA_L
ClientSampleId :
ST-3



Tgt Ion: 50 Resp: 37630
Ion Ratio Lower Upper
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52 30.0 27.1 40.7

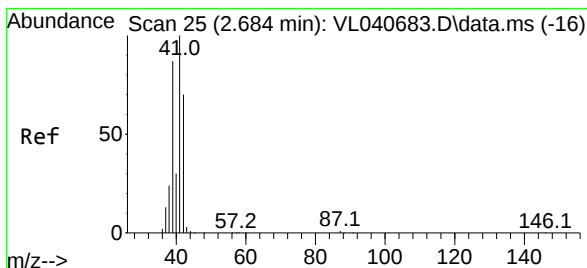
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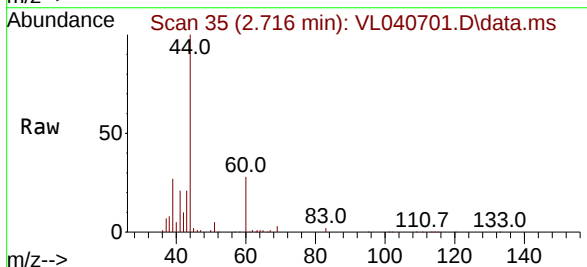


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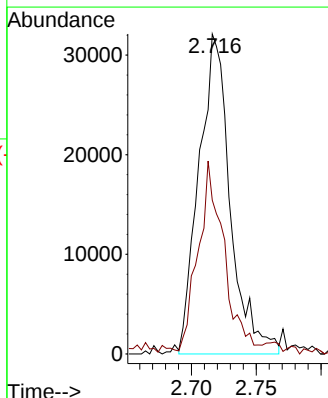
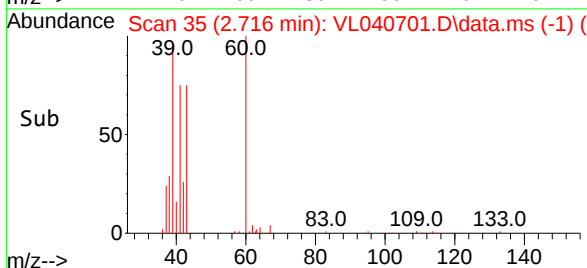
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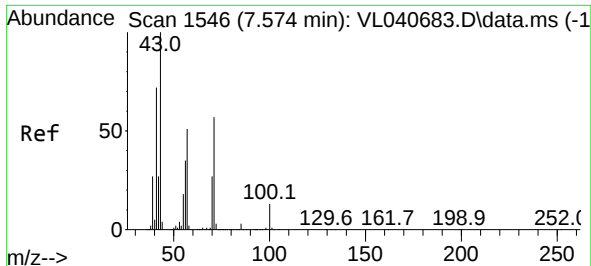


#9
Propene
Concen: 1.102 ppbv m
RT: 2.716 min Scan# 35
Delta R.T. 0.019 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24



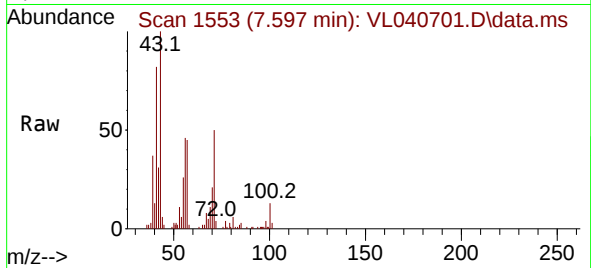
Tgt Ion: 41 Resp: 53983
Ion Ratio Lower Upper
41 100
42 55.0 56.7 85.1#





#10
Heptane
Concen: 0.537 ppbv
RT: 7.597 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

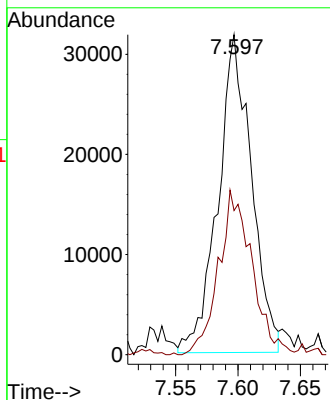
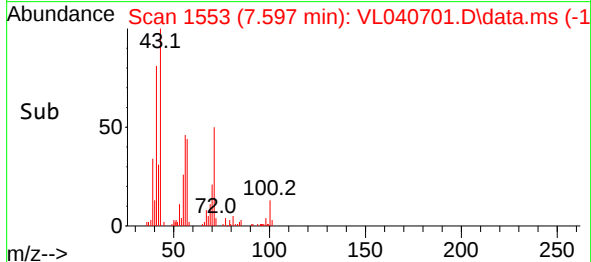
Instrument :
MSVOA_L
ClientSampleId :
ST-3



Tgt Ion: 43 Resp: 59298
Ion Ratio Lower Upper
43 100
57 52.7 41.8 62.6

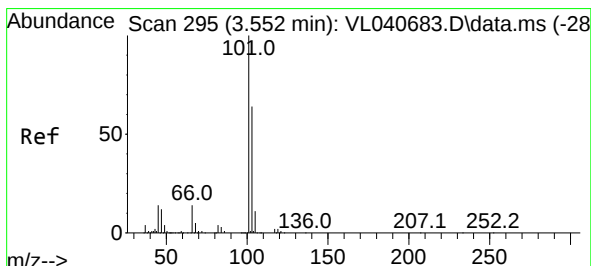
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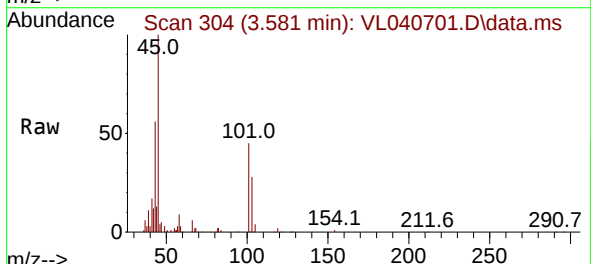


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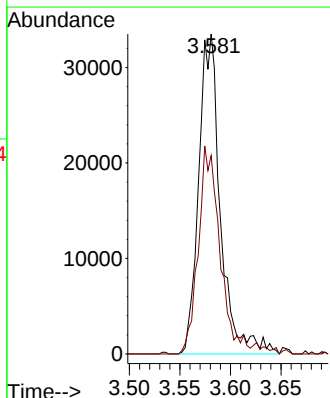
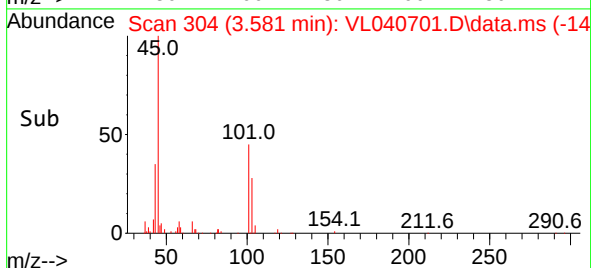
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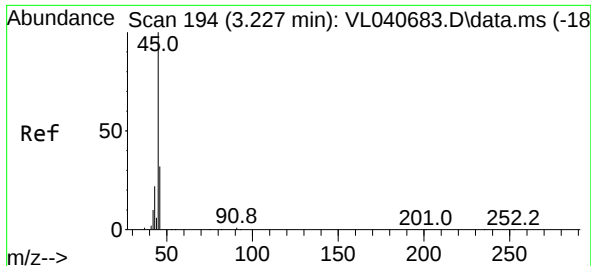


#11
Trichlorofluoromethane
Concen: 0.248 ppbv m
RT: 3.581 min Scan# 304
Delta R.T. 0.013 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24



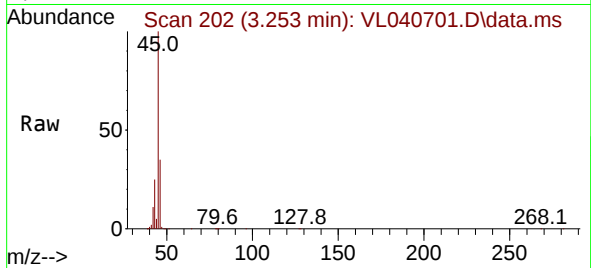
Tgt Ion:101 Resp: 50145
Ion Ratio Lower Upper
101 100
103 62.0 51.3 76.9





#13
Ethanol
Concen: 137.379 ppbv
RT: 3.253 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

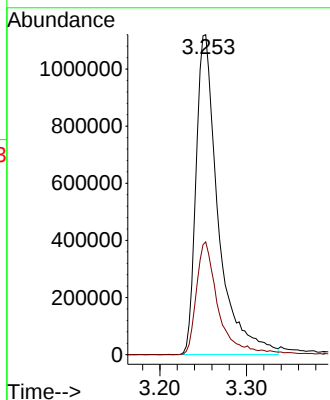
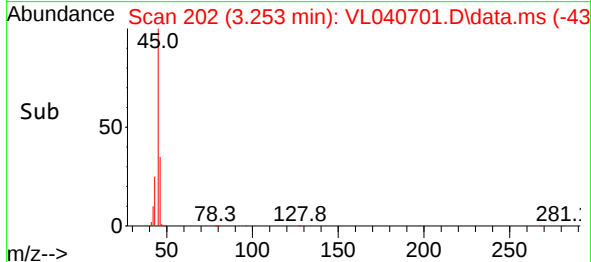
Instrument :
MSVOA_L
ClientSampleId :
ST-3



Tgt Ion: 45 Resp: 199148
Ion Ratio Lower Upper
45 100
46 35.8 15.2 61.0

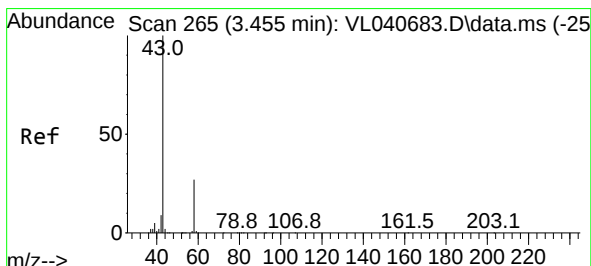
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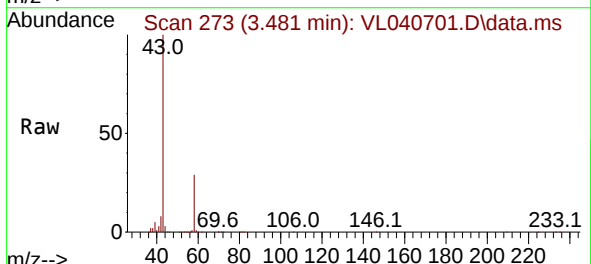


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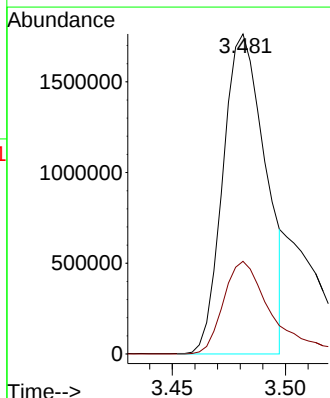
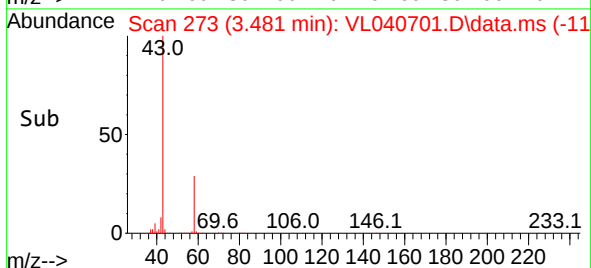
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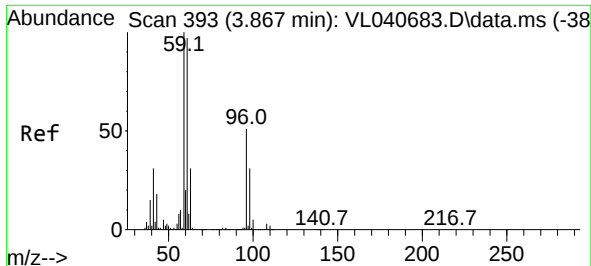


#15
Acetone
Concen: 16.766 ppbv m
RT: 3.481 min Scan# 273
Delta R.T. 0.010 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24



Tgt Ion: 43 Resp: 2307792
Ion Ratio Lower Upper
43 100
58 34.3 22.6 34.0#





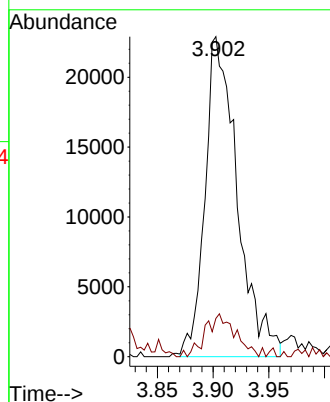
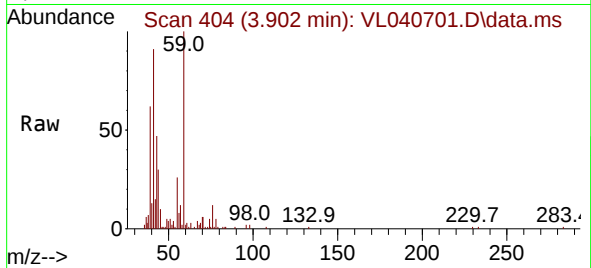
#17
tert-Butyl alcohol
Concen: 0.327 ppbv m
RT: 3.902 min Scan# 40
Delta R.T. 0.019 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

Instrument :
MSVOA_L
ClientSampleId :
ST-3

Tgt Ion: 59 Resp: 4615
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1

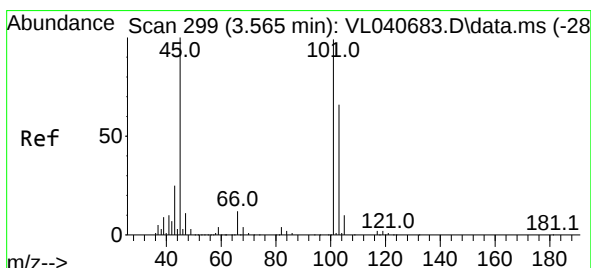
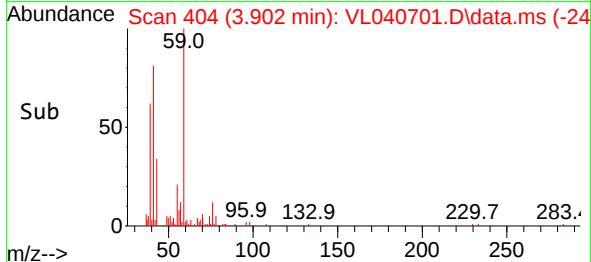
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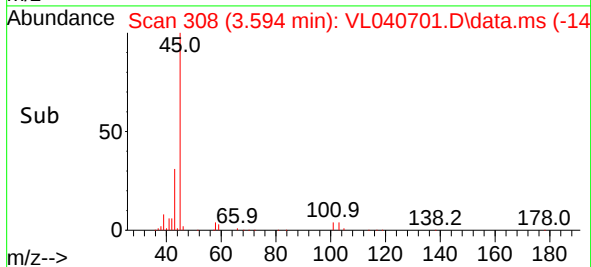
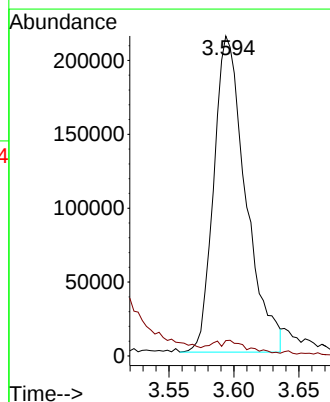
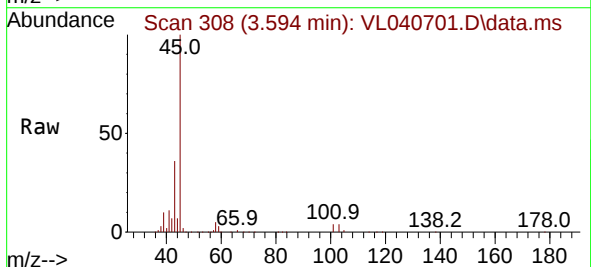
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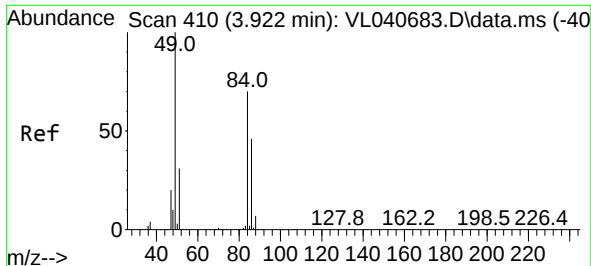
09/19/2023



#19
Isopropyl Alcohol
Concen: 4.399 ppbv
RT: 3.594 min Scan# 308
Delta R.T. 0.016 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

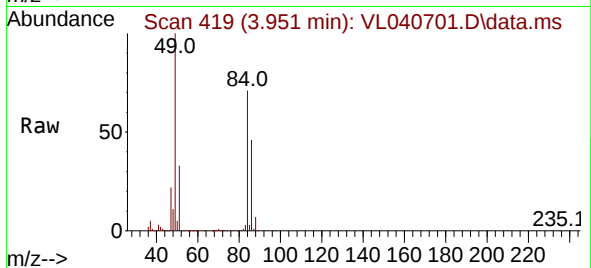
Tgt Ion: 45 Resp: 364868
Ion Ratio Lower Upper
45 100
58 216.9 1.9 2.9





#20
Methylene Chloride
Concen: 41.155 ppbv
RT: 3.951 min Scan# 411
Delta R.T. 0.013 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

Instrument :
MSVOA_L
ClientSampleId :
ST-3

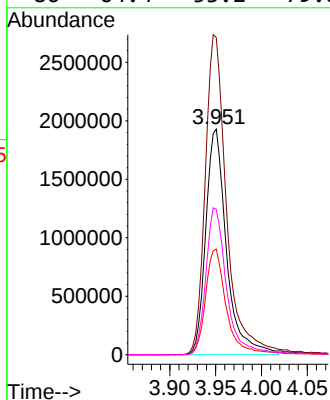
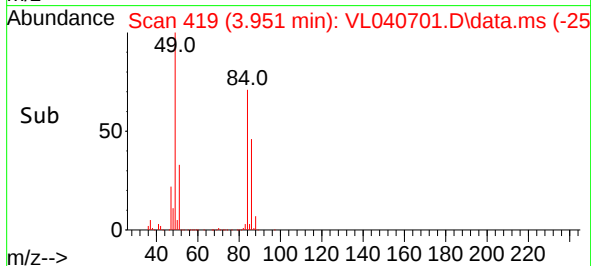


Tgt Ion: 84 Resp: 3049000

Ion	Ratio	Lower	Upper
84	100		
49	140.5	114.4	171.6
51	46.7	35.5	53.3
86	64.4	53.2	79.8

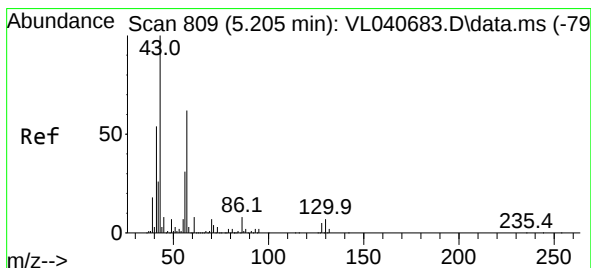
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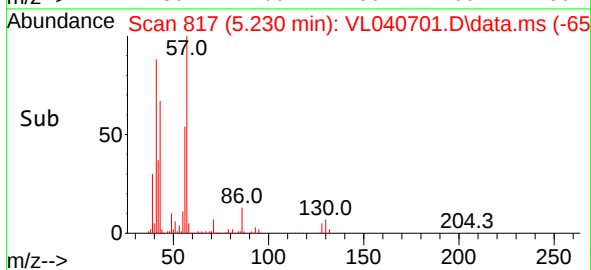
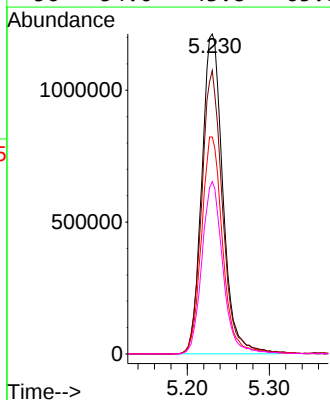
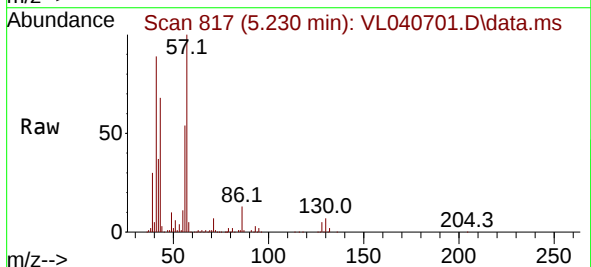
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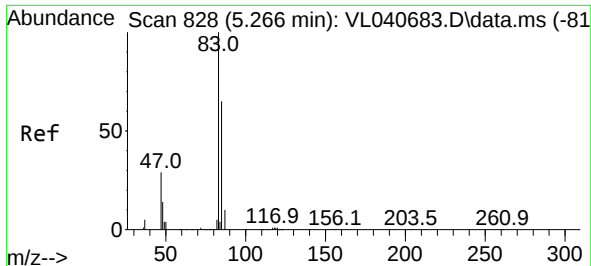


#26
Hexane
Concen: 20.578 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.010 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

Tgt Ion: 57 Resp: 2160150

Ion	Ratio	Lower	Upper
57	100		
41	89.0	75.2	112.8
43	68.4	185.6	278.4#
56	54.0	43.8	65.8





#29

Chloroform

Concen: 0.119 ppbv m

RT: 5.288 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL040701.D

Acq: 18 Sep 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :

ST-3

Tgt Ion: 83 Resp: 21524

Ion Ratio Lower Upper

83 100

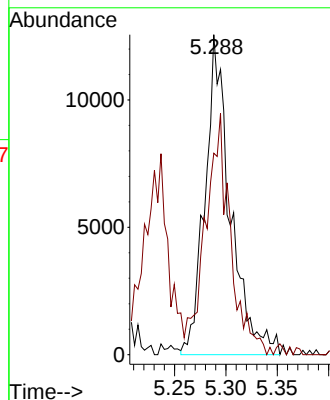
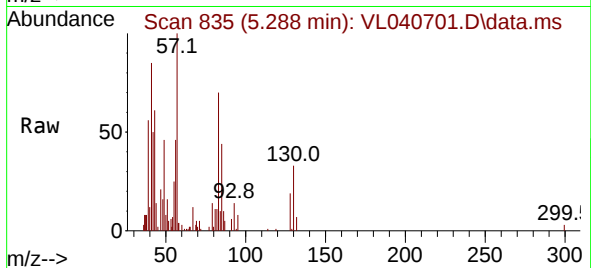
85 62.9 51.8 77.8

Manual Integrations

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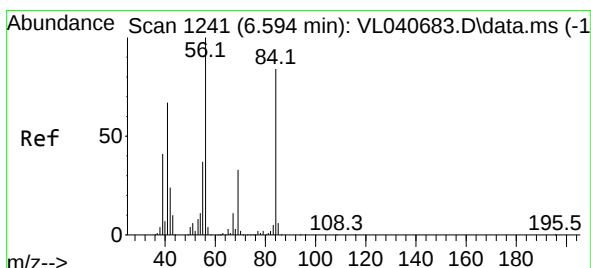
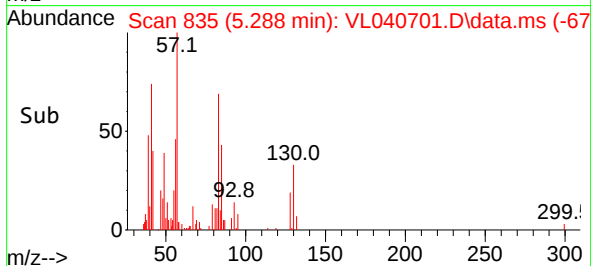
Supervised By :Mahesh Dadoda 09/19/2023



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Dadoda

09/19/2023



#30

Cyclohexane

Concen: 0.303 ppbv m

RT: 6.619 min Scan# 1249

Delta R.T. 0.010 min

Lab File: VL040701.D

Acq: 18 Sep 2023 16:24

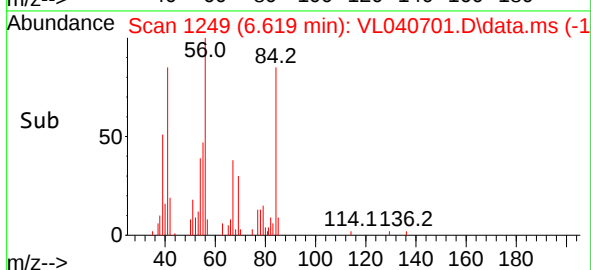
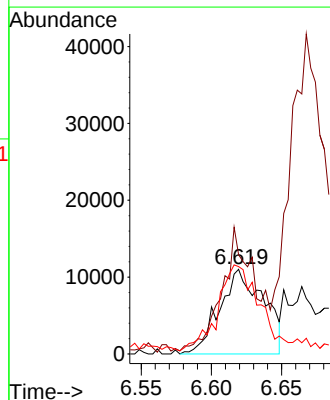
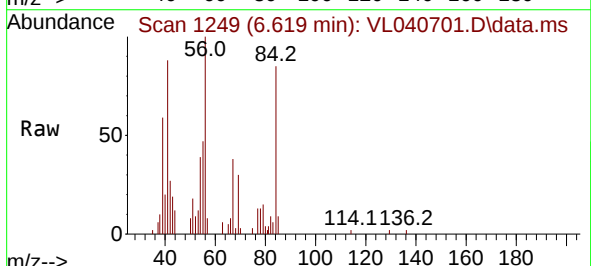
Tgt Ion: 84 Resp: 23978

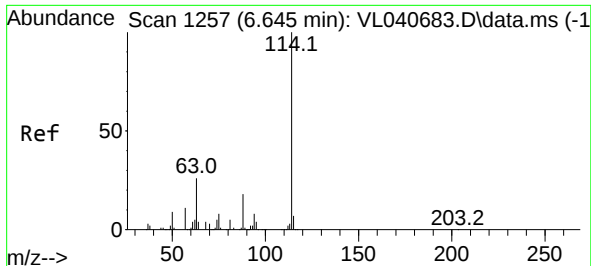
Ion Ratio Lower Upper

84 100

56 102.6 103.2 154.8#

41 98.8 65.5 98.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 114

Delta R.T. 0.010 min

Lab File: VL040701.D

Acq: 18 Sep 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :

ST-3

Tgt Ion:114 Resp: 2672014

Ion Ratio Lower Upper

114 100

63 26.0 21.1 31.7

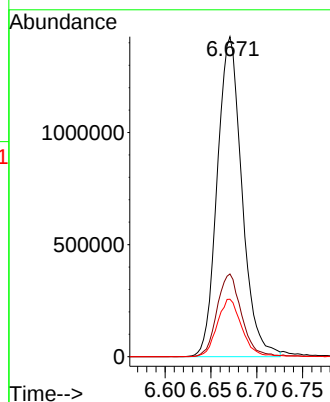
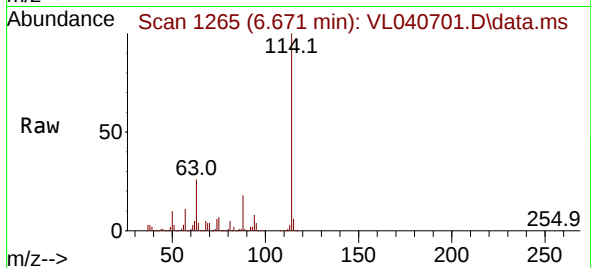
88 18.1 14.5 21.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2023

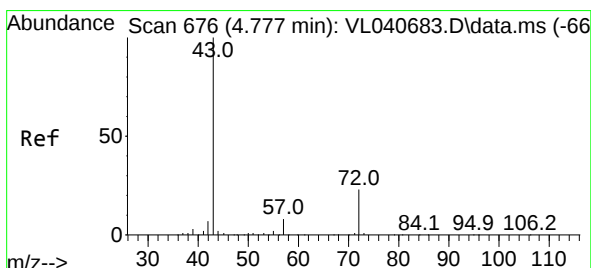
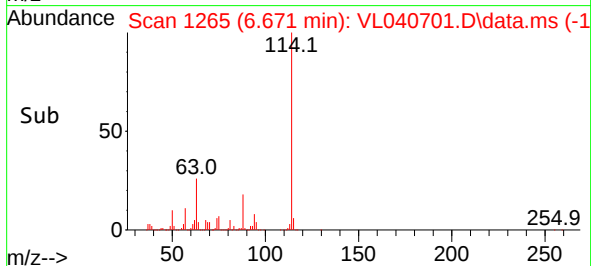
Supervised By :Mahesh Dadoda 09/19/2023



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Supervised By :Mahesh Dadoda

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#34

2-Butanone

Concen: 2.926 ppbv

RT: 4.803 min Scan# 684

Delta R.T. 0.013 min

Lab File: VL040701.D

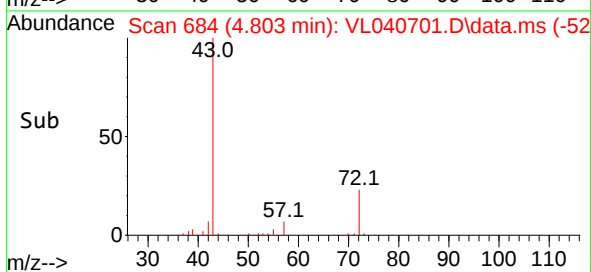
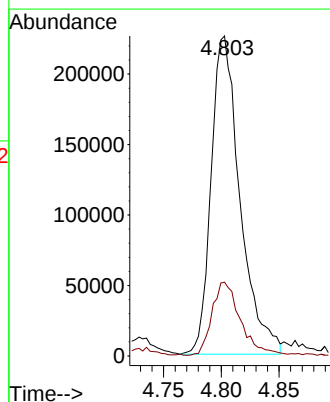
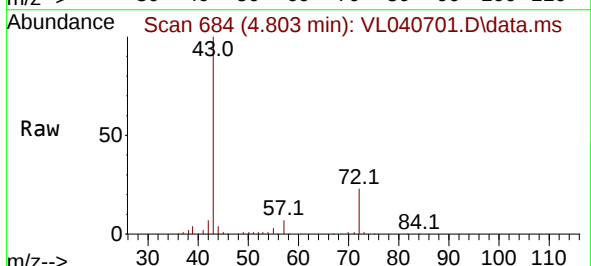
Acq: 18 Sep 2023 16:24

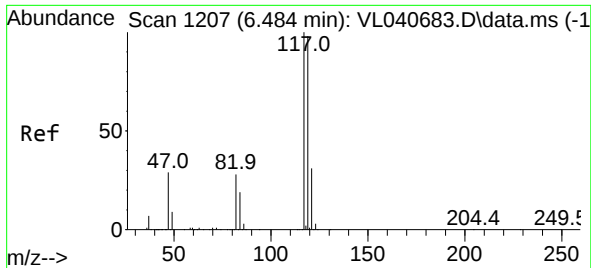
Tgt Ion: 43 Resp: 393249

Ion Ratio Lower Upper

43 100

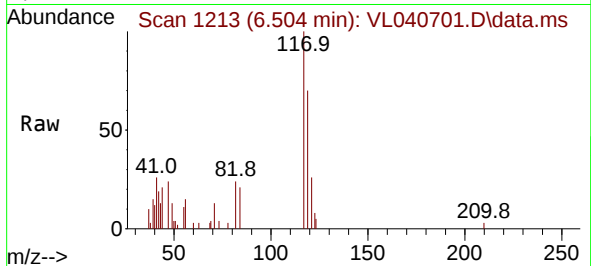
72 23.8 18.6 27.8





#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 6.504 min Scan# 1176
Delta R.T. 0.000 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

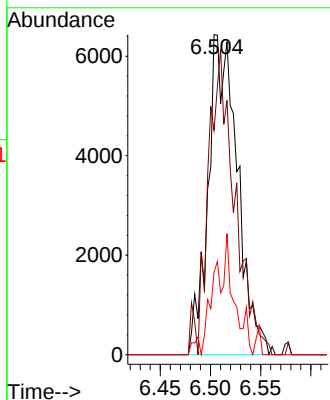
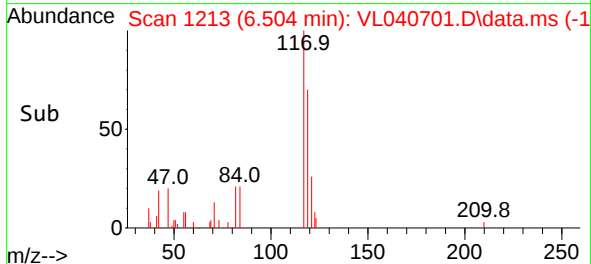
Instrument :
MSVOA_L
ClientSampleId :
ST-3



Tgt Ion: 117 Resp: 13049
Ion Ratio Lower Upper
117 100
119 70.1 78.6 117.8
121 25.7 24.7 37.1

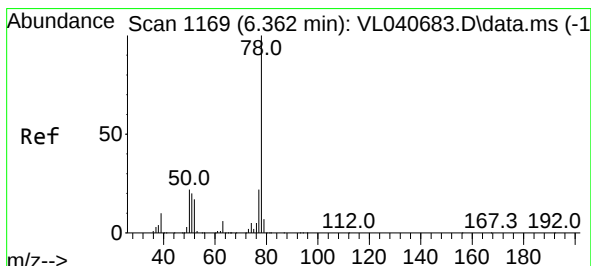
Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



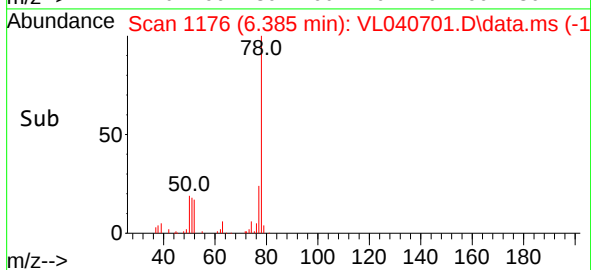
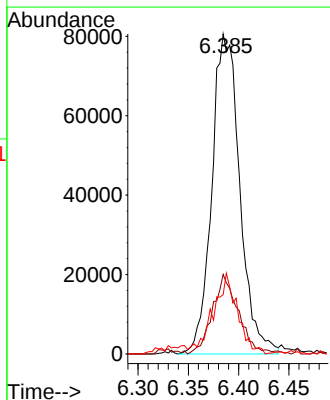
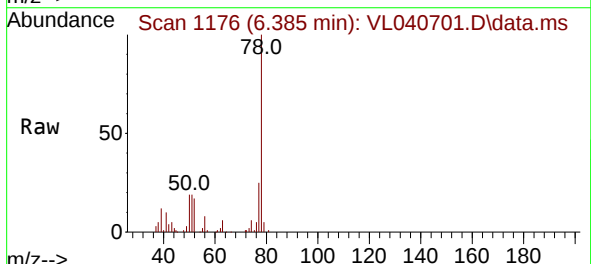
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Dadoda

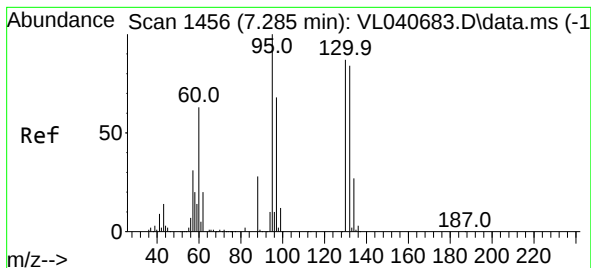
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#36
Benzene
Concen: 0.787 ppbv
RT: 6.385 min Scan# 1176
Delta R.T. 0.003 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

Tgt Ion: 78 Resp: 155799
Ion Ratio Lower Upper
78 100
77 24.0 17.9 26.9
50 18.0 17.3 25.9





#38

Trichloroethene

Concen: 0.986 ppbv

RT: 7.311 min Scan# 1456

Delta R.T. 0.010 min

Lab File: VL040701.D

Acq: 18 Sep 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :

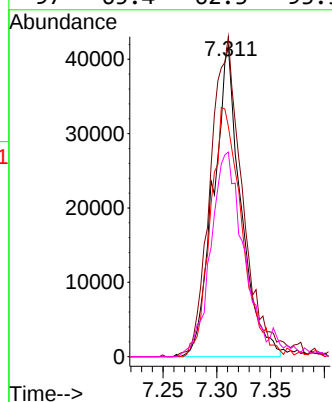
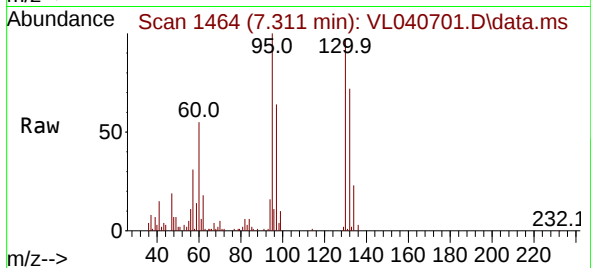
ST-3

Tgt Ion:130	Resp:	7439
Ion Ratio	Lower	Upper
130	100	
95	102.0	91.9 137.9
132	74.2	77.3 115.9
97	65.4	62.3 93.5

Manual Integrations

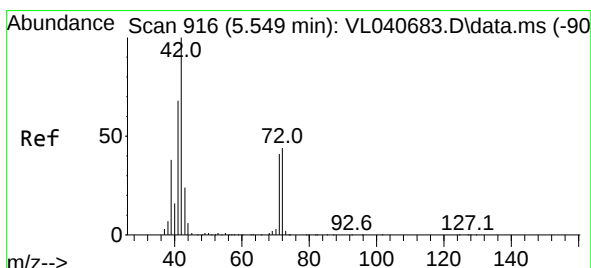
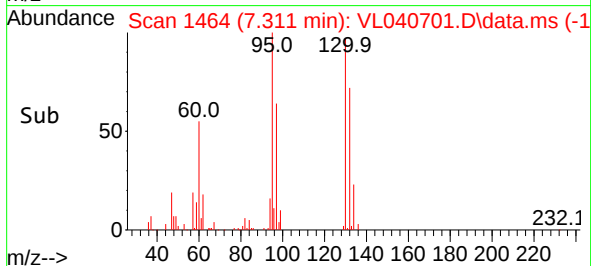
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Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



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Dadoda

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#41

Tetrahydrofuran

Concen: 2.678 ppbv m

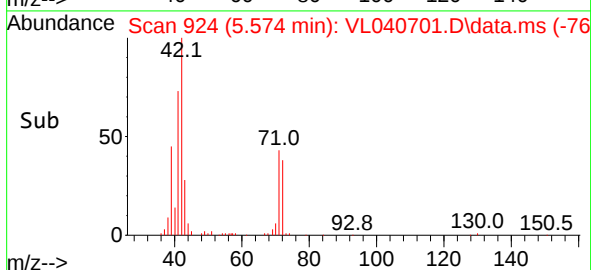
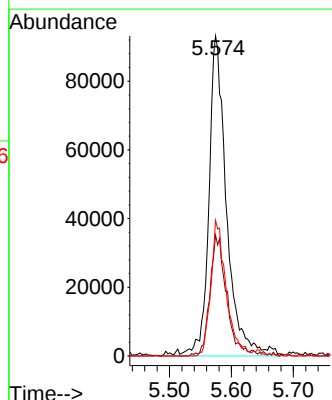
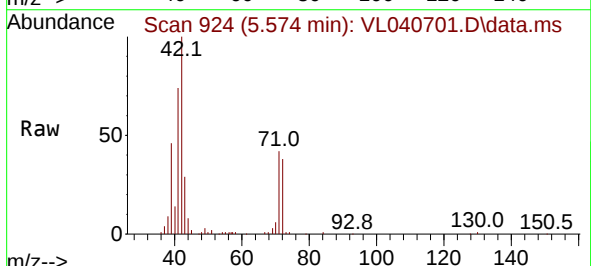
RT: 5.574 min Scan# 924

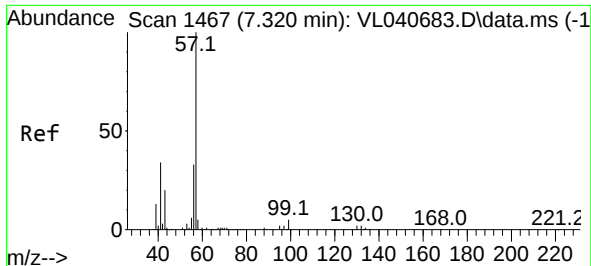
Delta R.T. 0.013 min

Lab File: VL040701.D

Acq: 18 Sep 2023 16:24

Tgt Ion: 42	Resp:	184532
Ion Ratio	Lower	Upper
42	100	
72	36.2	34.9 52.3
71	38.0	33.8 50.8





#44

2,2,4-Trimethylpentane

Concen: 1.084 ppbv

RT: 7.346 min Scan# 1467

Delta R.T. 0.010 min

Lab File: VL040701.D

Acq: 18 Sep 2023 16:24

Instrument :

MSVOA_L

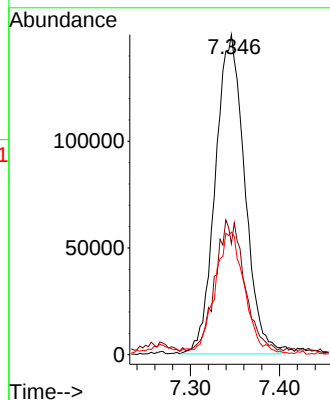
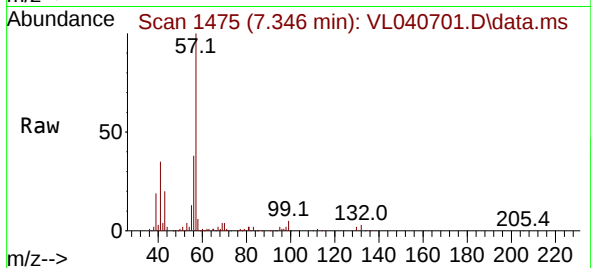
ClientSampleId :

ST-3

Tgt Ion: 57 Resp: 341594
 Ion Ratio Lower Upper
 57 100
 41 45.5 28.5 42.7
 56 40.3 25.4 38.2

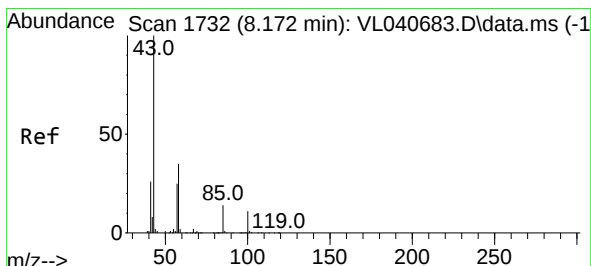
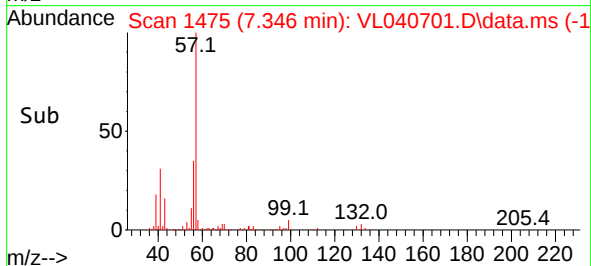
Manual Integrations
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 Supervised By :Mahesh Dadoda 09/19/2023



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 Dadoda

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#50

4-Methyl-2-Pentanone

Concen: 0.291 ppbv m

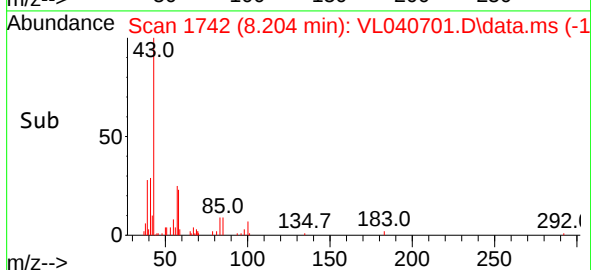
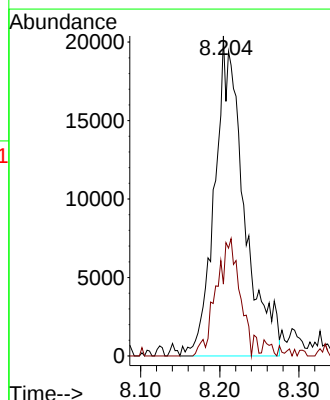
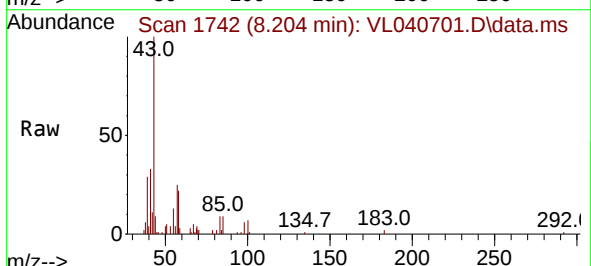
RT: 8.204 min Scan# 1742

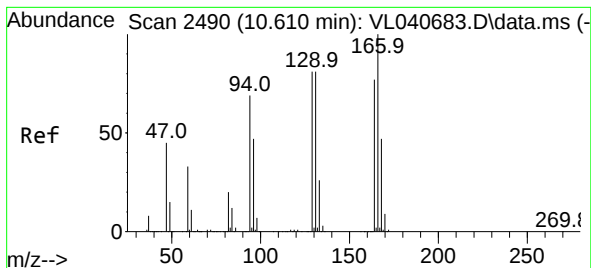
Delta R.T. 0.013 min

Lab File: VL040701.D

Acq: 18 Sep 2023 16:24

Tgt Ion: 43 Resp: 52780
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.2 42.4





#52

Tetrachloroethene

Concen: 0.107 ppbv m

RT: 10.626 min Scan# 2490

Delta R.T. 0.000 min

Lab File: VL040701.D

Acq: 18 Sep 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :

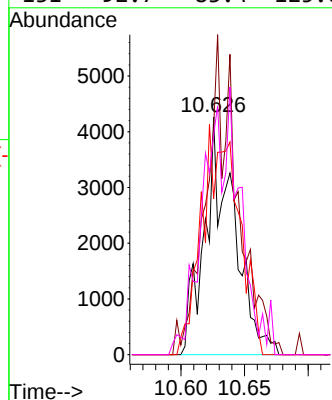
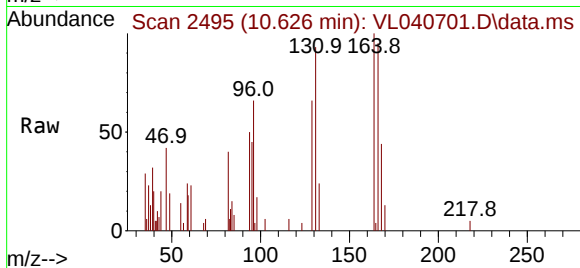
ST-3

Tgt Ion:164	Resp:	6920
Ion Ratio	Lower	Upper
164	100	
166	95.4	103.4 155.2
129	65.6	83.5 125.3
131	92.7	83.4 125.0

Manual Integrations

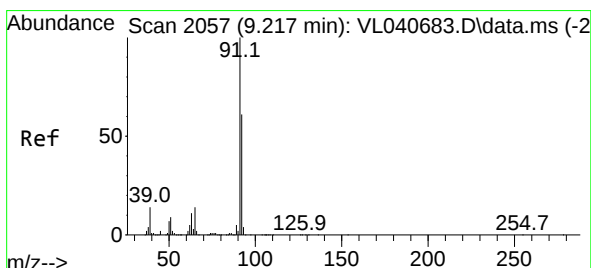
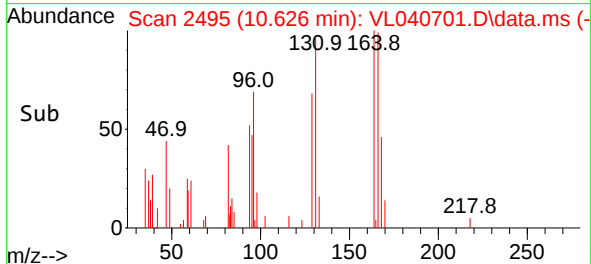
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Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



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Dadoda

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#53

Toluene

Concen: 4.702 ppbv

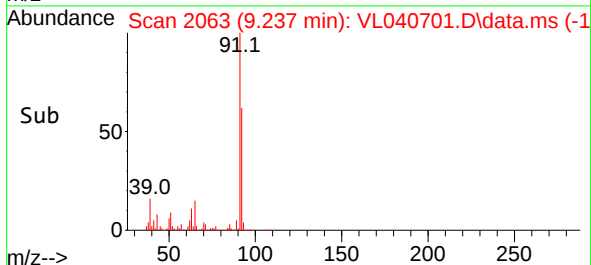
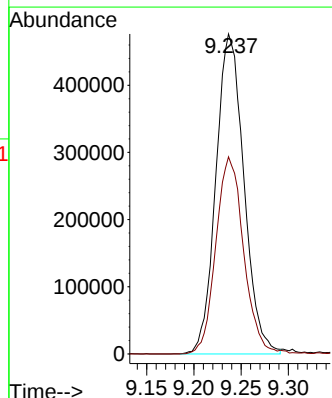
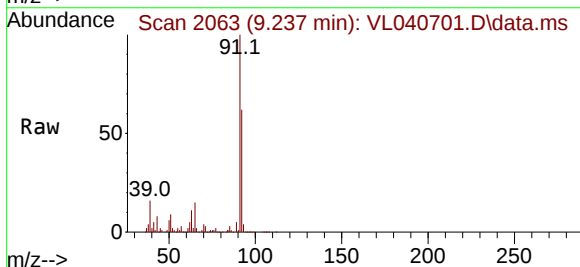
RT: 9.237 min Scan# 2063

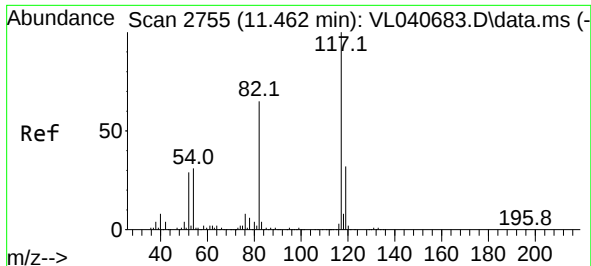
Delta R.T. 0.006 min

Lab File: VL040701.D

Acq: 18 Sep 2023 16:24

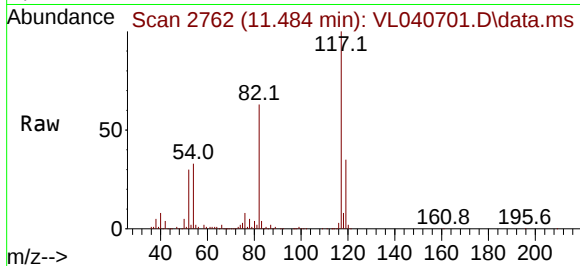
Tgt Ion: 91	Resp:	982226
Ion Ratio	Lower	Upper
91	100	
92	61.3	48.5 72.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

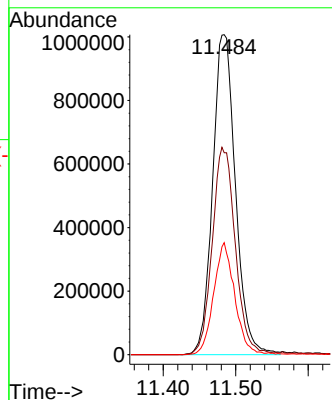
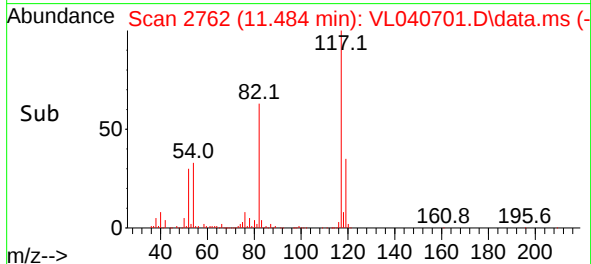
Instrument :
MSVOA_L
ClientSampleId :
ST-3



Tgt Ion: 117 Resp: 220465
Ion Ratio Lower Upper
117 100
82 65.9 51.4 77.0
119 32.8 24.7 37.1

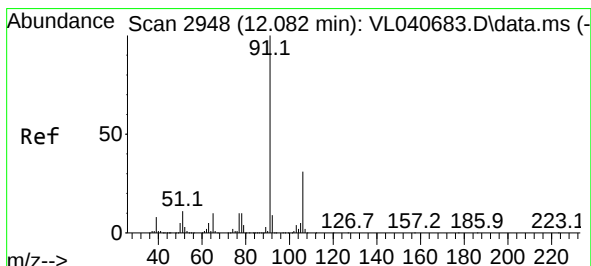
Manual Integrations
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Supervised By :Mahesh Dadoda 09/19/2023



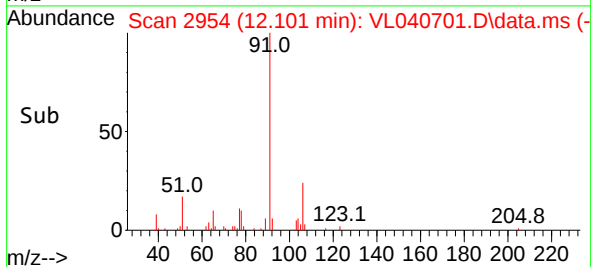
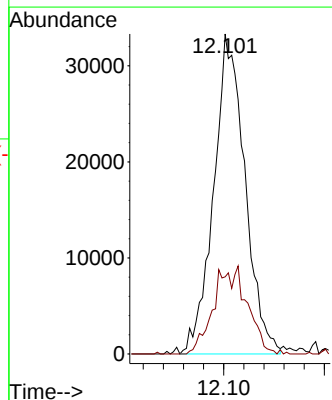
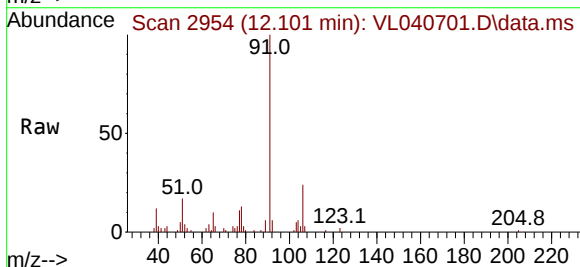
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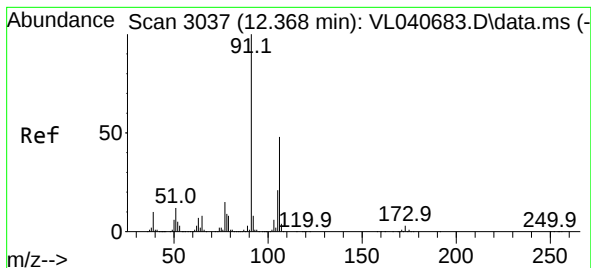
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#58
Ethyl Benzene
Concen: 0.286 ppbv
RT: 12.101 min Scan# 2954
Delta R.T. 0.000 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

Tgt Ion: 91 Resp: 71926
Ion Ratio Lower Upper
91 100
106 24.1 24.7 37.1#





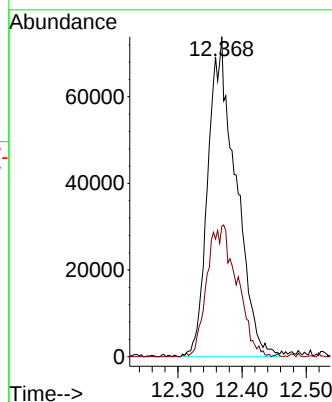
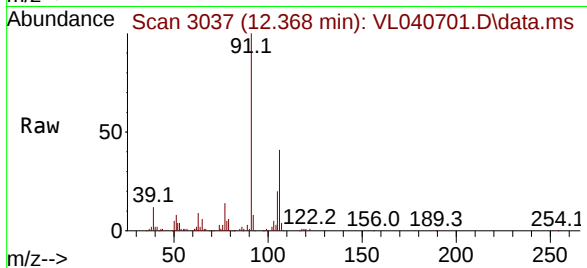
#59
m/p-Xylene
Concen: 0.943 ppbv m
RT: 12.368 min Scan# 3037
Delta R.T. -0.013 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

Instrument :
MSVOA_L
ClientSampleId :
ST-3

Tgt Ion: 91 Resp: 22261
Ion Ratio Lower Upper
91 100
106 44.6 34.8 52.2

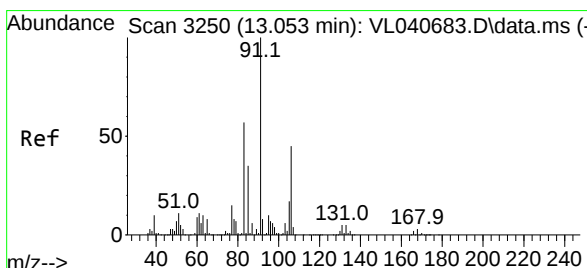
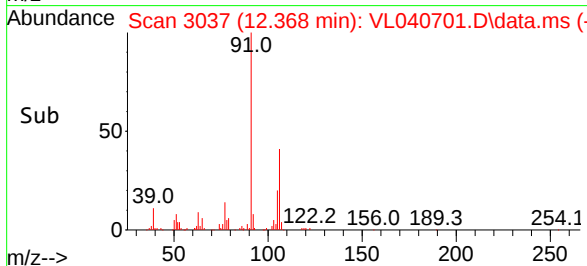
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Supervised By :Mahesh Dadoda 09/19/2023



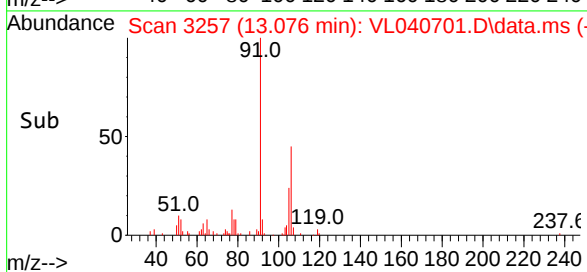
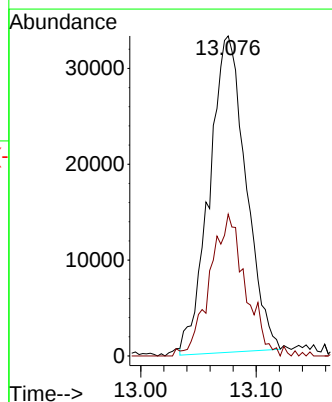
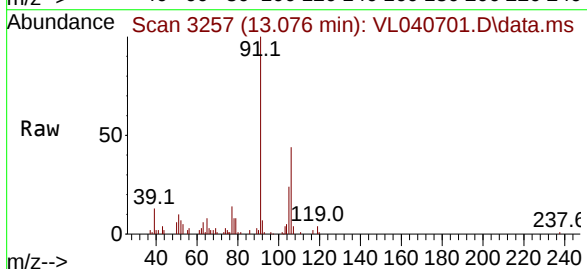
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Dadoda

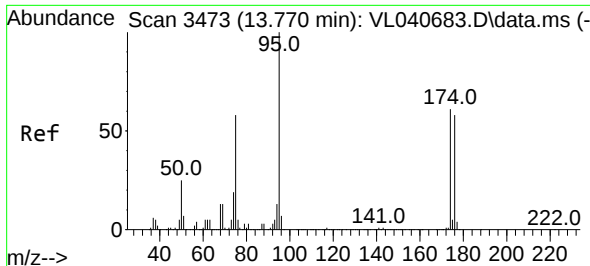
09/19/2023



#60
o-Xylene
Concen: 0.323 ppbv
RT: 13.076 min Scan# 3257
Delta R.T. 0.006 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

Tgt Ion: 91 Resp: 72750
Ion Ratio Lower Upper
91 100
106 43.7 22.3 66.9





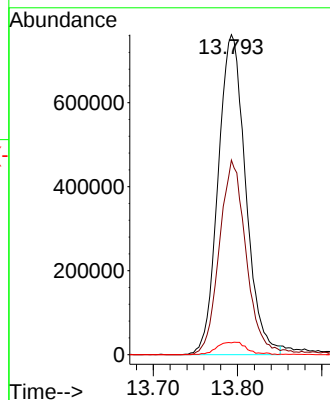
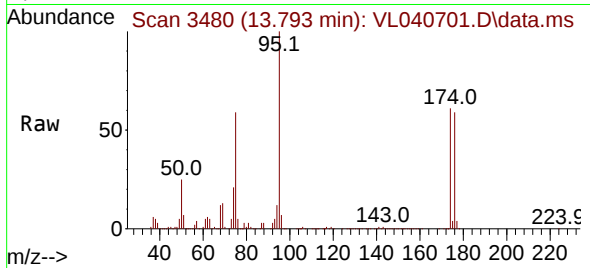
#68
1-Bromo-4-Fluorobenzene
Concen: 10.148 ppbv
RT: 13.793 min Scan# 3473
Delta R.T. 0.006 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

Instrument :
MSVOA_L
ClientSampleId :
ST-3

Tgt Ion: 95 Resp: 172857
Ion Ratio Lower Upper
95 100
174 60.9 48.9 73.3
175 4.4 3.5 5.3

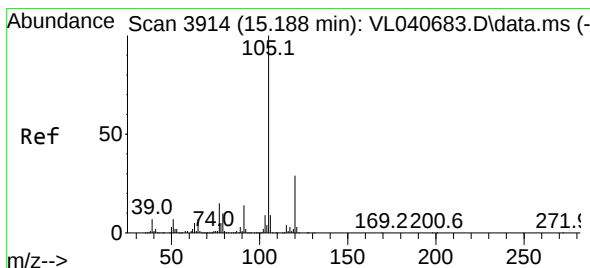
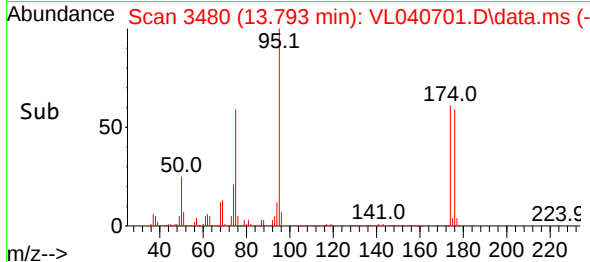
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Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



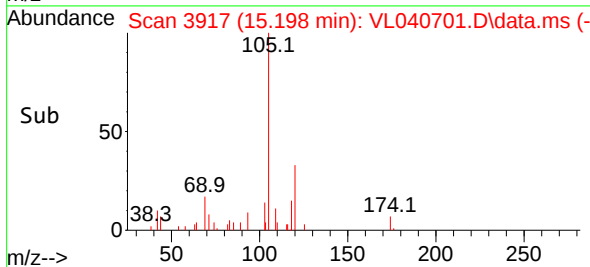
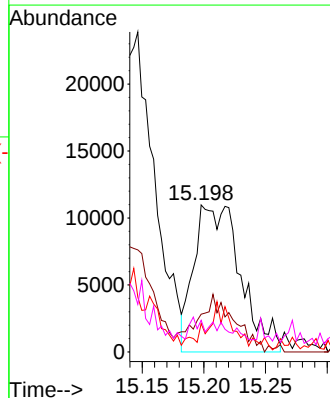
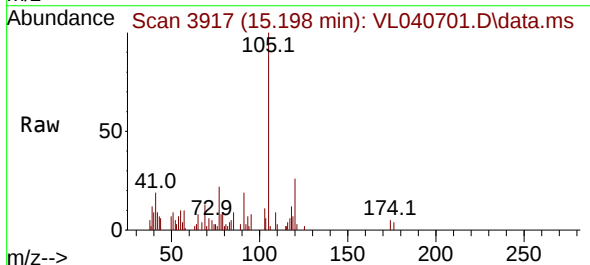
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Dadoda

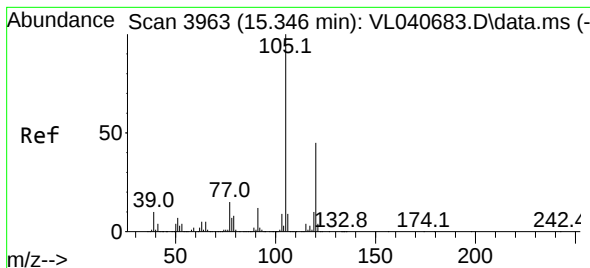
09/19/2023



#72
4-Ethyltoluene
Concen: 0.114 ppbv m
RT: 15.198 min Scan# 3917
Delta R.T. -0.003 min
Lab File: VL040701.D
Acq: 18 Sep 2023 16:24

Tgt Ion:105 Resp: 28865
Ion Ratio Lower Upper
105 100
120 30.8 23.9 35.9
91 20.2 11.0 16.4#
77 0.0 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.165 ppbv m

RT: 15.368 min Scan# 3963

Delta R.T. 0.006 min

Lab File: VL040701.D

Acq: 18 Sep 2023 16:24

Instrument :

MSVOA_L

ClientSampleId :

ST-3

Tgt Ion:105 Resp: 37540

Ion Ratio Lower Upper

105 100

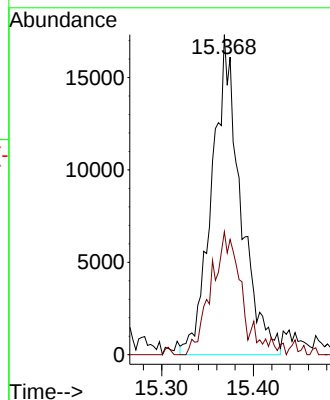
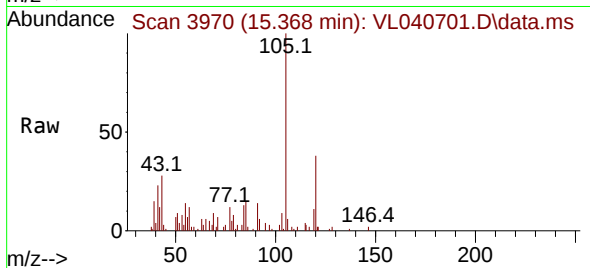
120 38.4 36.1 54.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023

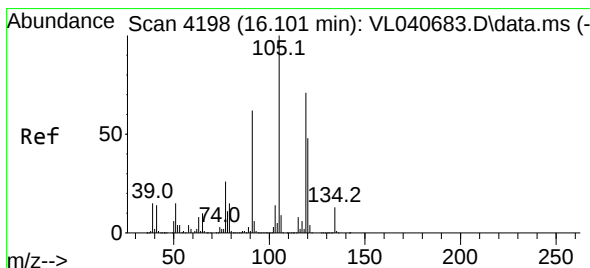
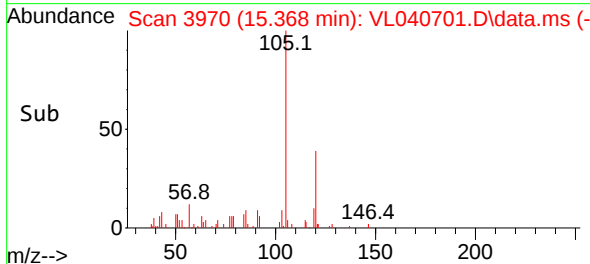
Supervised By :Mahesh Dadoda 09/19/2023



09/19/2023

Supervised By :Mahesh
Dadoda

09/19/2023



#74

1,2,4-Trimethylbenzene

Concen: 0.444 ppbv m

RT: 16.130 min Scan# 4207

Delta R.T. 0.013 min

Lab File: VL040701.D

Acq: 18 Sep 2023 16:24

Tgt Ion:105 Resp: 123047

Ion Ratio Lower Upper

105 100

120 36.9 38.6 57.8#

91 11.2 50.0 75.0#

77 13.9 20.6 31.0#

