

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032222\
 Data File : VL038705.D
 Acq On : 23 Mar 2022 5:00
 Operator : SY/AP
 Sample : N2048-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P93

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/23/2022
 Supervised By : Mahesh Dadoda 03/25/2022

Quant Time: Mar 23 07:08:51 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Mar 23 2022

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.649	49	775335	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.156	114	2113496	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.063	117	1977333	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.391	95	1489934	9.828	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.041	85	20610	0.198	ppbv	98
3) Chlorodifluoromethane	2.983	51	43477	0.531	ppbv	96
4) Chloromethane	3.137	50	8326m	0.185	ppbv	
9) Propene	3.009	41	44609	1.128	ppbv	94
11) Trichlorofluoromethane	3.938	101	19207	0.209	ppbv	95
13) Ethanol	3.594	45	152435	34.954	ppbv	95
15) Acetone	3.835	43	898186	13.426	ppbv	93
17) tert-Butyl alcohol	4.285	59	34848	0.596	ppbv #	94
19) Isopropyl Alcohol	3.954	45	65446m	1.764	ppbv	
20) Methylene Chloride	4.333	84	106592	3.783	ppbv	95
26) Hexane	5.671	57	113561	1.506	ppbv #	42
27) Carbon Disulfide	4.539	76	16013	0.216	ppbv #	54
29) Chloroform	5.735	83	23519	0.195	ppbv	99
30) Cyclohexane	7.105	84	7879m	0.120	ppbv	
32) 1,1,1-Trichloroethane	6.491	97	9973m	0.086	ppbv	
34) 2-Butanone	5.224	43	748988	8.954	ppbv	98
35) Carbon Tetrachloride	6.999	117	4588m	0.037	ppbv	
36) Benzene	6.870	78	22996	0.141	ppbv #	93
38) Trichloroethene	7.812	130	18015m	0.264	ppbv	
41) Tetrahydrofuran	6.041	42	17370m	0.279	ppbv	
51) 2-Hexanone	10.118	43	95495	0.855	ppbv #	99
52) Tetrachloroethene	11.227	164	8713994	145.983	ppbv	95
53) Toluene	9.783	91	134290	0.766	ppbv	98
58) Ethyl Benzene	12.687	91	28588m	0.124	ppbv	
59) m/p-Xylene	12.947	91	54504m	0.270	ppbv	
60) o-Xylene	13.667	91	22860m	0.119	ppbv	
74) 1,2,4-Trimethylbenzene	16.735	105	26657m	0.119	ppbv	
75) 1,3-Dichlorobenzene	16.973	146	37800m	0.264	ppbv	

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

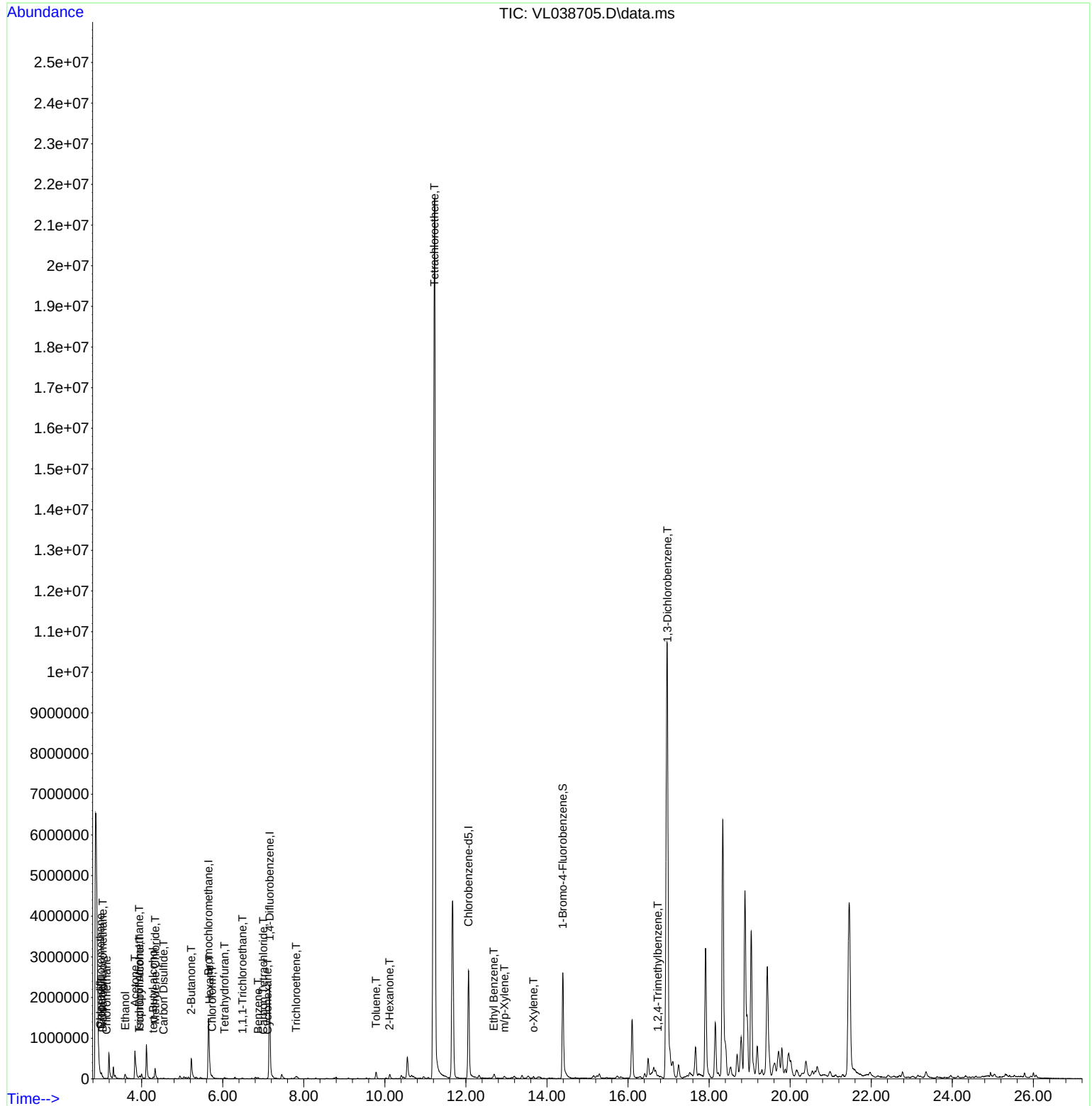
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032222\
Data File : VL038705.D
Acq On : 23 Mar 2022 5:00
Operator : SY/AP
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Misc : 400mL/MSVOA_L
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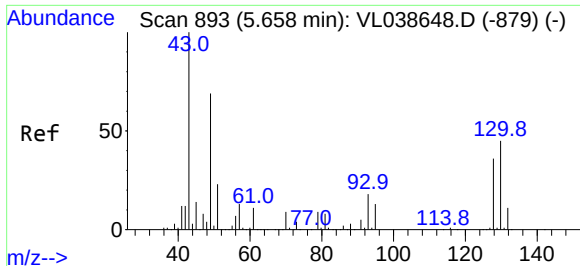
Instrument :
MSVOA_L
ClientSampleId :
C0P93

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

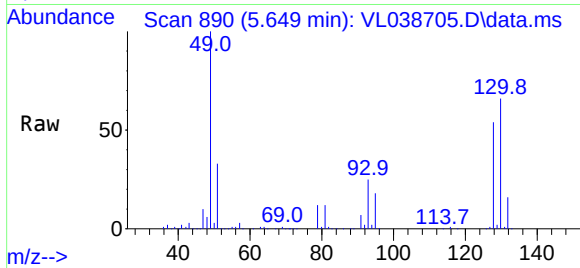
Quant Time: Mar 23 07:08:51 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.649 min Scan# 89
Delta R.T. -0.010 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

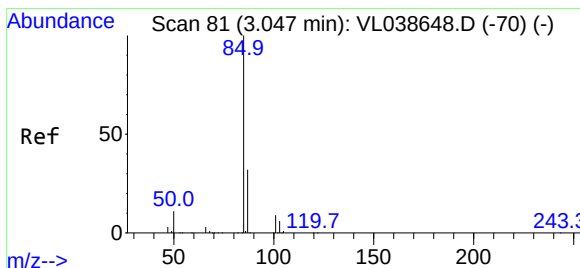
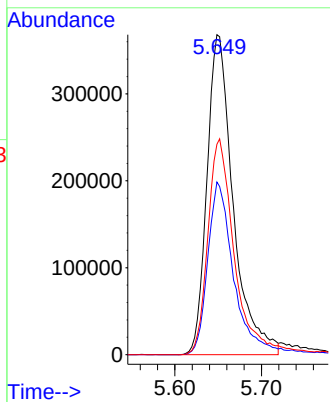
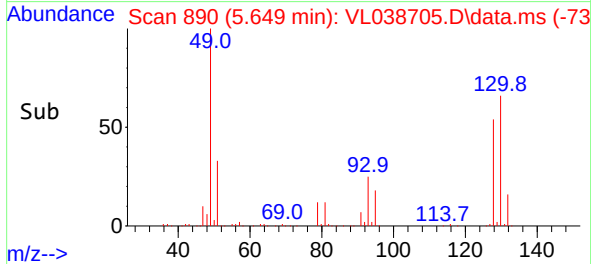
Instrument :
MSVOA_L
ClientSampleId :
COP93



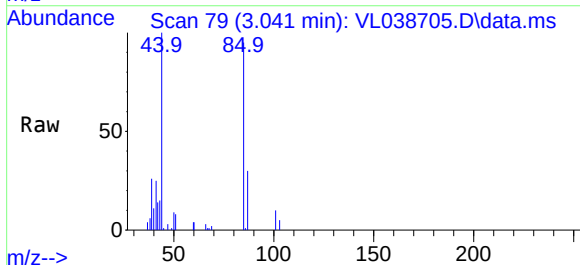
Tgt Ion: 49 Resp: 77533
Ion Ratio Lower Upper
49 100
128 54.7 26.2 78.6
130 69.5 33.7 101.1

Manual Integrations
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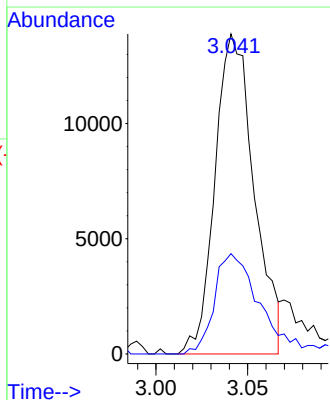
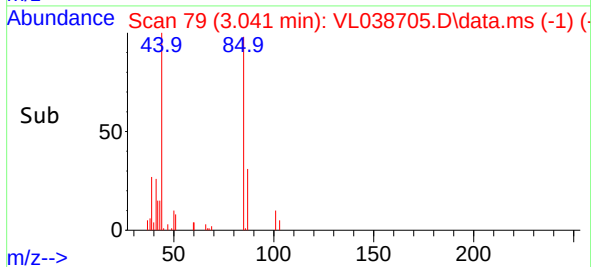
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

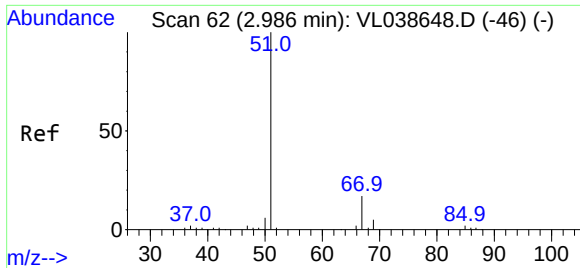


#2
Dichlorodifluoromethane
Concen: 0.198 ppbv
RT: 3.041 min Scan# 79
Delta R.T. -0.006 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00



Tgt Ion: 85 Resp: 20610
Ion Ratio Lower Upper
85 100
87 31.4 26.0 39.0





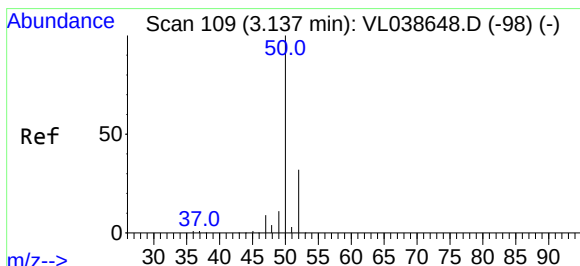
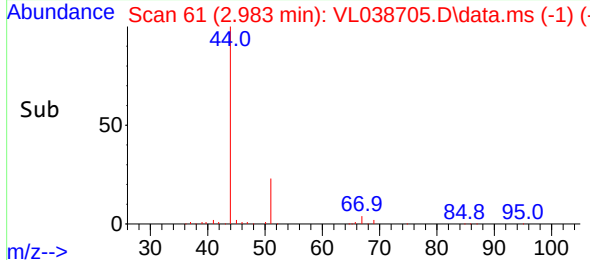
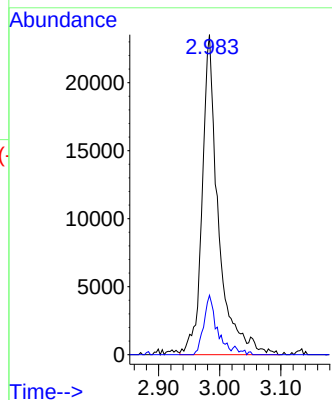
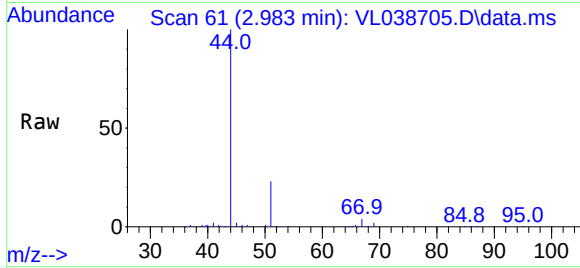
#3
Chlorodifluoromethane
Concen: 0.531 ppbv
RT: 2.983 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

Instrument :
MSVOA_L
ClientSampleId :
COP93

Tgt Ion: 51 Resp: 4347
Ion Ratio Lower Upper
51 100
67 16.0 14.1 21.1

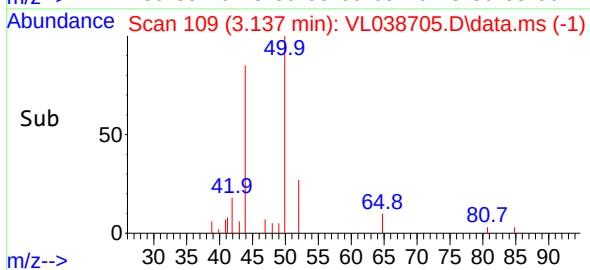
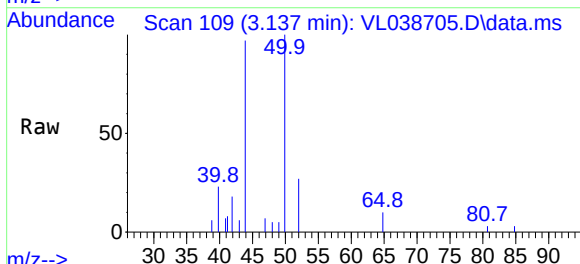
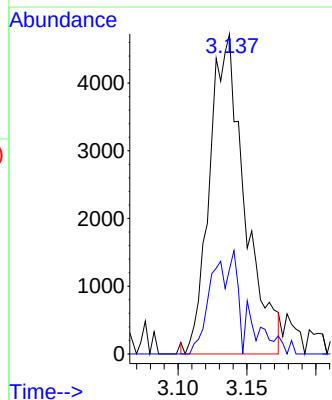
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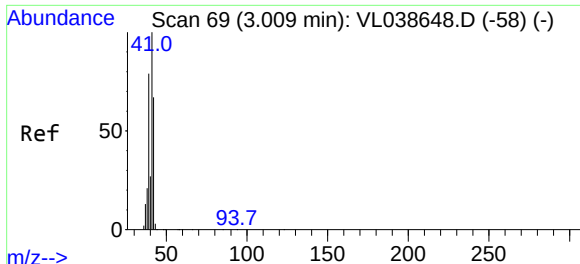
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#4
Chloromethane
Concen: 0.185 ppbv m
RT: 3.137 min Scan# 109
Delta R.T. 0.000 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

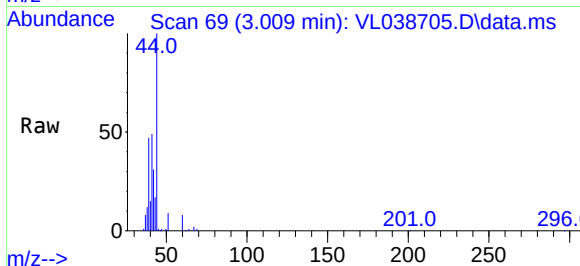
Tgt Ion: 50 Resp: 8326
Ion Ratio Lower Upper
50 100
52 26.5 25.5 38.3





#9
 Propene
 Concen: 1.128 ppbv
 RT: 3.009 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL038705.D
 Acq: 23 Mar 2022 5:00

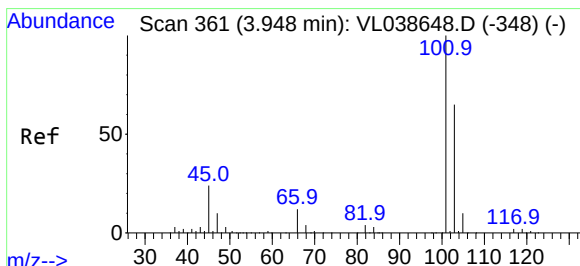
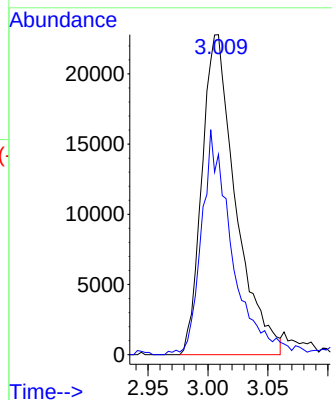
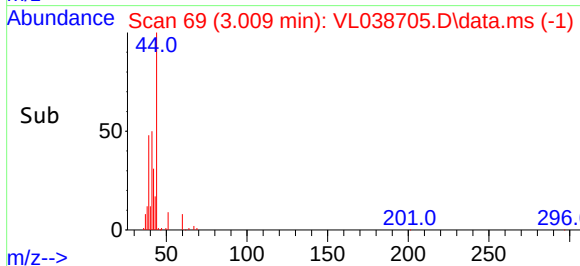
Instrument :
 MSVOA_L
 ClientSampleId :
 C0P93



Tgt Ion: 41 Resp: 44609
 Ion Ratio Lower Upper
 41 100
 42 65.1 56.2 84.4

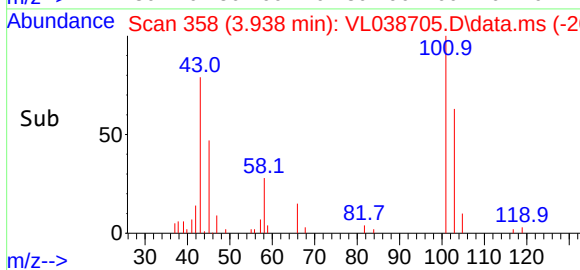
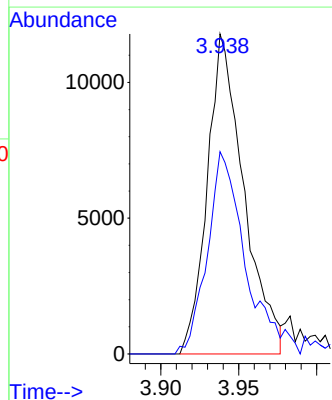
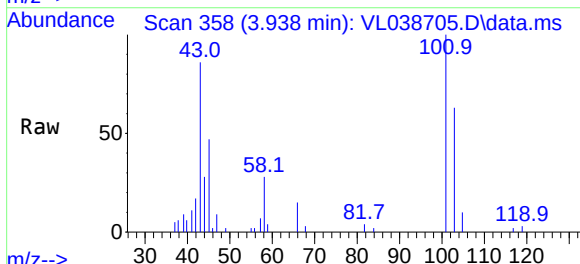
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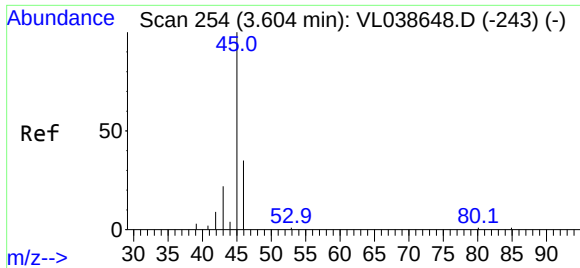
Reviewed By :Semsettin Yesilyurt 03/23/2022
 Supervised By :Mahesh Dadoda 03/25/2022



#11
 Trichlorofluoromethane
 Concen: 0.209 ppbv
 RT: 3.938 min Scan# 358
 Delta R.T. -0.010 min
 Lab File: VL038705.D
 Acq: 23 Mar 2022 5:00

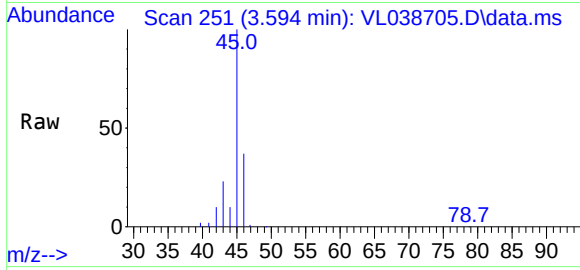
Tgt Ion:101 Resp: 19207
 Ion Ratio Lower Upper
 101 100
 103 60.8 51.9 77.9





#13
Ethanol
Concen: 34.954 ppbv
RT: 3.594 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

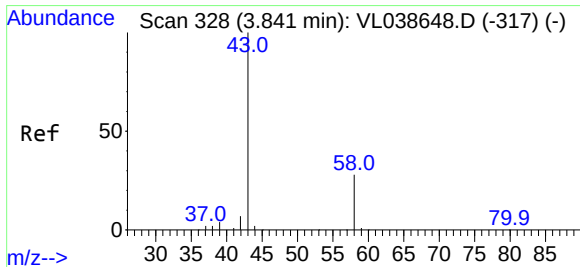
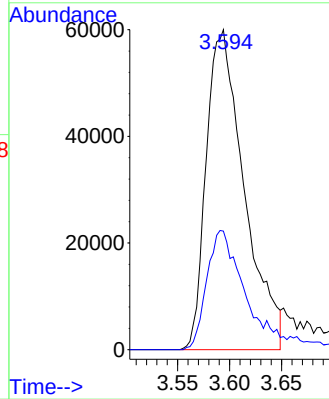
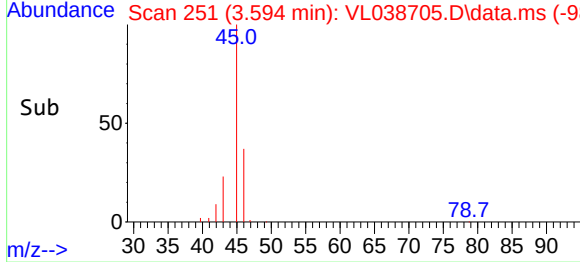
Instrument :
MSVOA_L
ClientSampleId :
COP93



Tgt Ion: 45 Resp: 15243
Ion Ratio Lower Upper
45 100
46 40.9 15.1 60.5

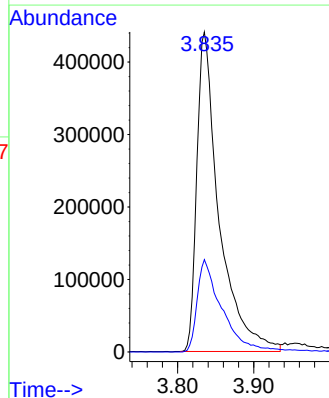
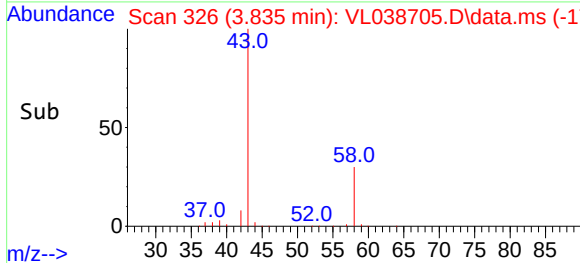
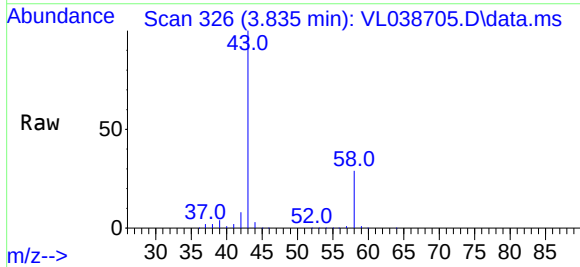
Manual Integrations
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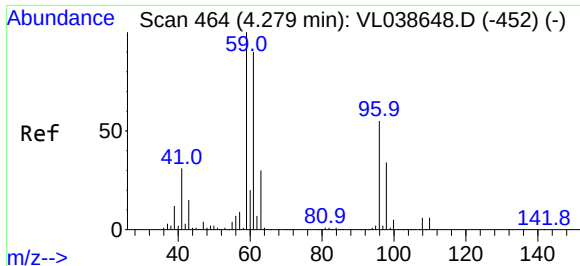
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#15
Acetone
Concen: 13.426 ppbv
RT: 3.835 min Scan# 326
Delta R.T. -0.006 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

Tgt Ion: 43 Resp: 898186
Ion Ratio Lower Upper
43 100
58 33.1 23.3 34.9





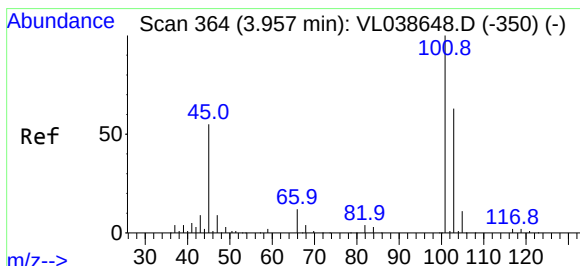
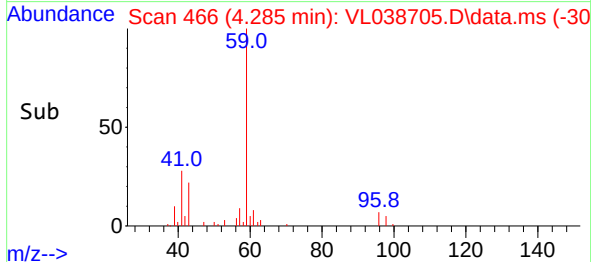
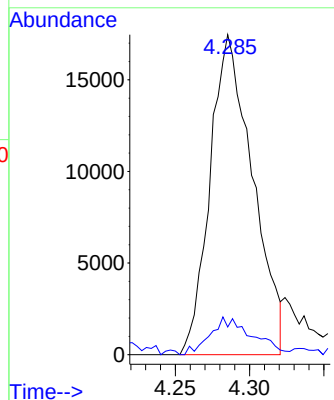
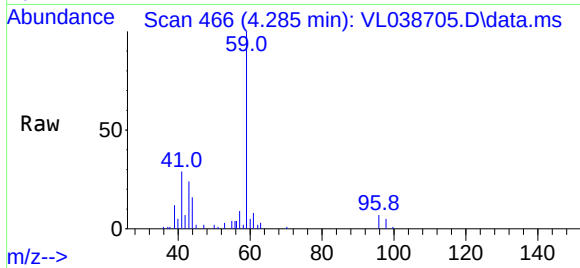
#17
tert-Butyl alcohol
Concen: 0.596 ppbv
RT: 4.285 min Scan# 40
Delta R.T. 0.006 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

Instrument :
MSVOA_L
ClientSampleId :
COP93

Tgt Ion: 59 Resp: 3484
Ion Ratio Lower Upper
59 100
57 12.5 8.2 12.2

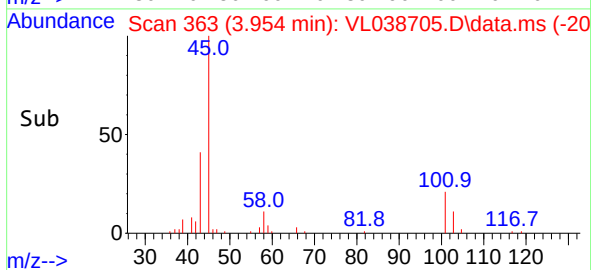
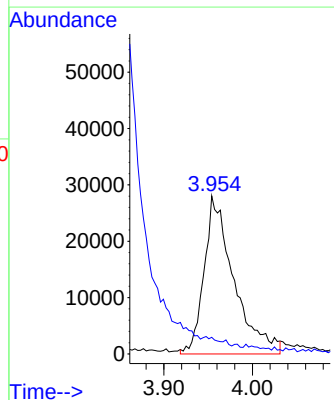
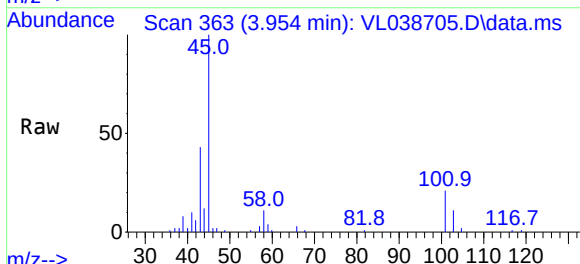
Manual Integrations
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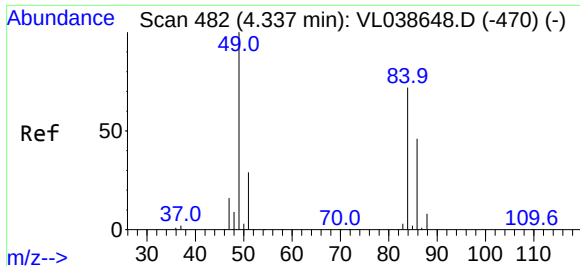
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#19
Isopropyl Alcohol
Concen: 1.764 ppbv m
RT: 3.954 min Scan# 363
Delta R.T. -0.003 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

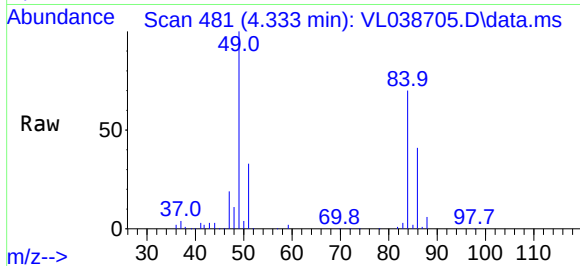
Tgt Ion: 45 Resp: 65446
Ion Ratio Lower Upper
45 100
58 0.0 2.3 3.5





#20
Methylene Chloride
Concen: 3.783 ppbv
RT: 4.333 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

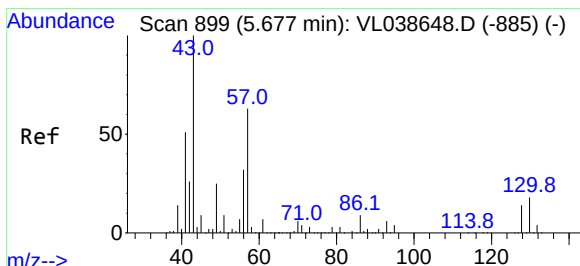
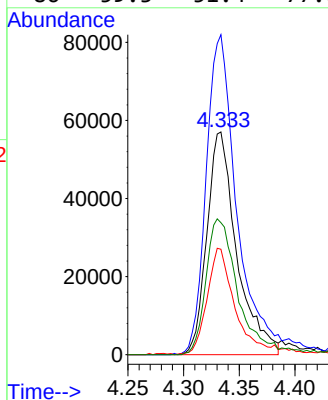
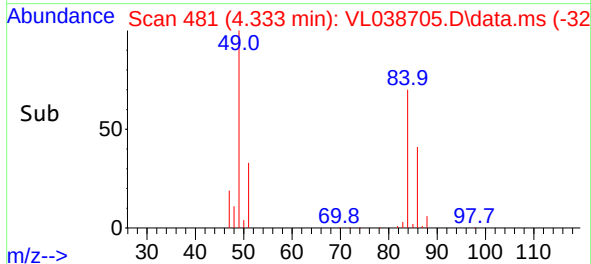
Instrument :
MSVOA_L
ClientSampleId :
COP93



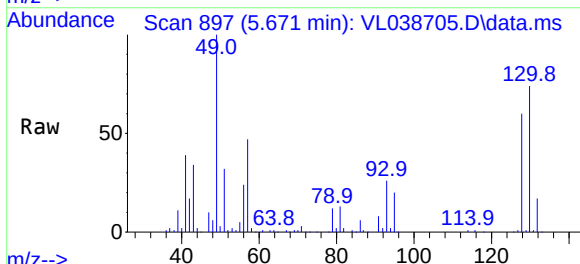
Tgt Ion: 84 Resp: 106592
Ion Ratio Lower Upper
84 100
49 143.7 111.2 166.8
51 47.0 32.8 49.2
86 59.3 51.4 77.0

Manual Integrations
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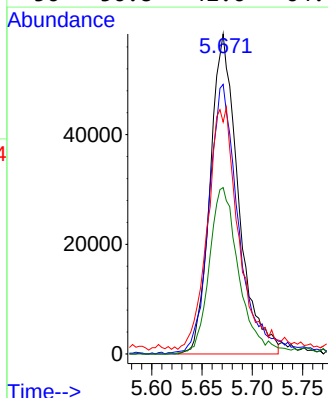
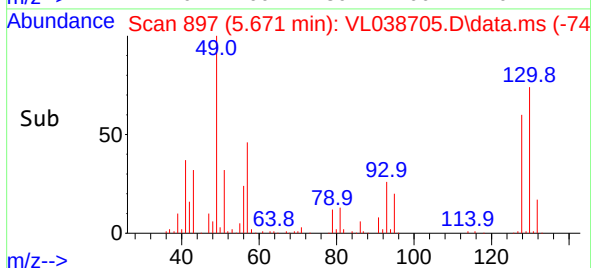
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

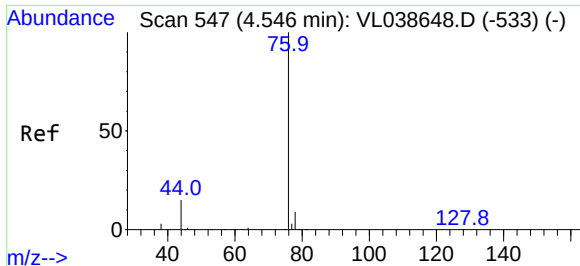


#26
Hexane
Concen: 1.506 ppbv
RT: 5.671 min Scan# 897
Delta R.T. -0.006 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00



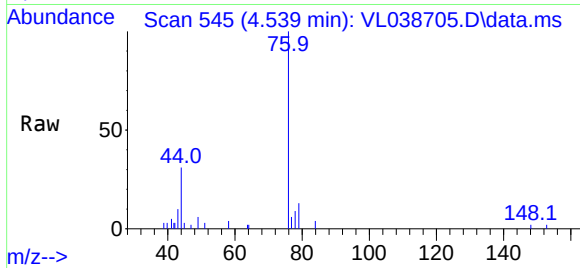
Tgt Ion: 57 Resp: 113561
Ion Ratio Lower Upper
57 100
41 91.7 67.0 100.4
43 85.2 184.2 276.2#
56 56.8 42.6 64.0





#27
Carbon Disulfide
Concen: 0.216 ppbv
RT: 4.539 min Scan# 547
Delta R.T. -0.006 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

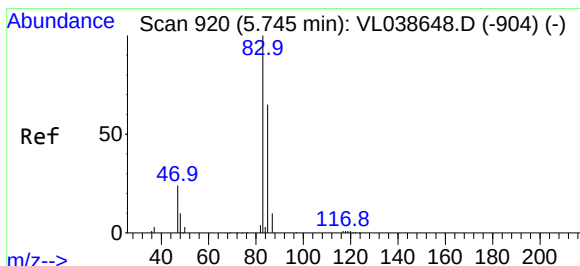
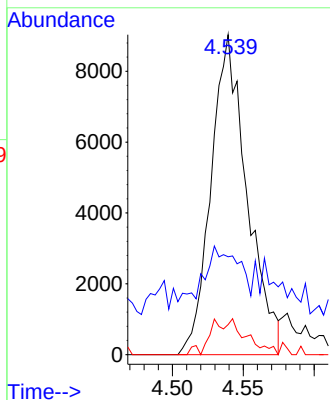
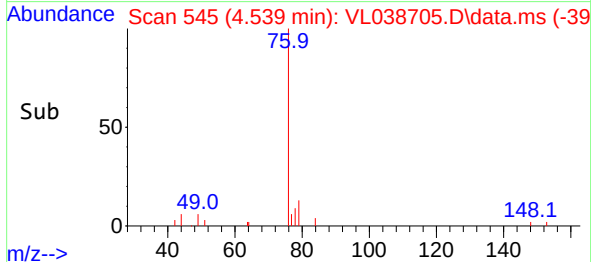
Instrument :
MSVOA_L
ClientSampleId :
COP93



Tgt Ion: 76 Resp: 1601
Ion Ratio Lower Upper
76 100
44 45.4 12.4 18.6
78 11.9 7.8 11.8

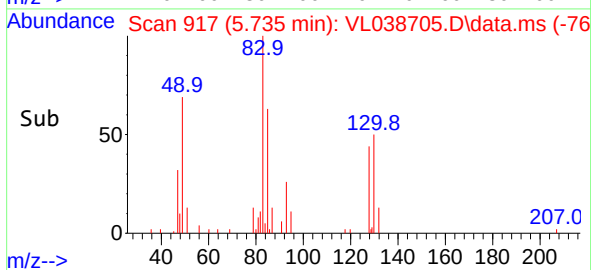
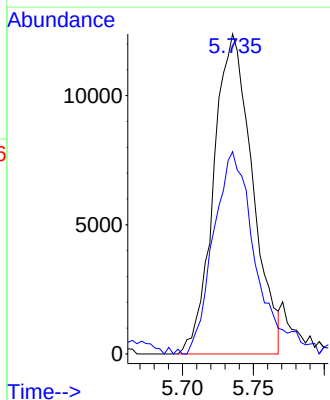
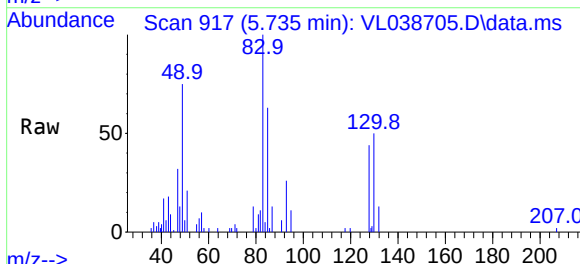
Manual Integrations
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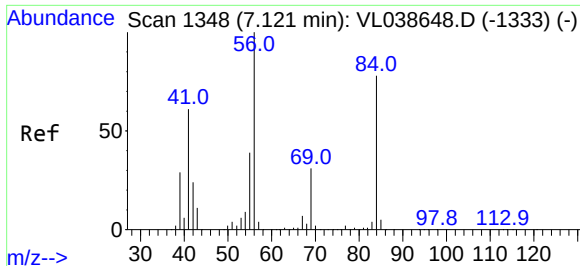
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#29
Chloroform
Concen: 0.195 ppbv
RT: 5.735 min Scan# 917
Delta R.T. -0.010 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

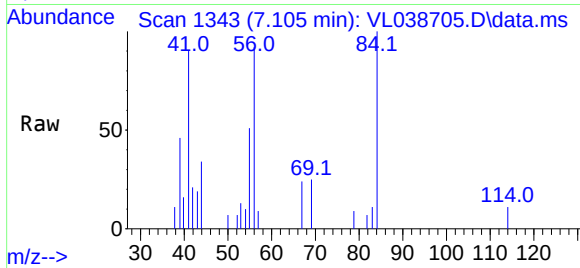
Tgt Ion: 83 Resp: 23519
Ion Ratio Lower Upper
83 100
85 64.1 51.7 77.5





#30
Cyclohexane
Concen: 0.120 ppbv m
RT: 7.105 min Scan# 1110
Delta R.T. -0.016 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

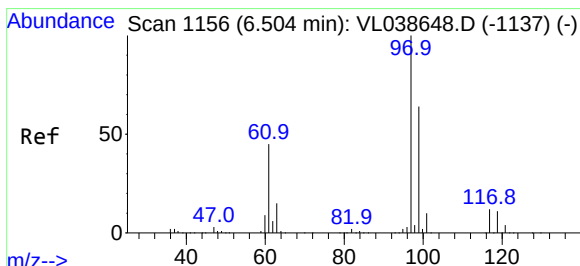
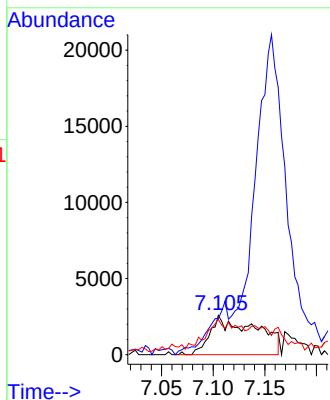
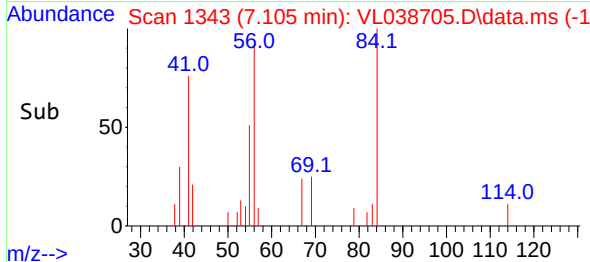
Instrument :
MSVOA_L
ClientSampleId :
COP93



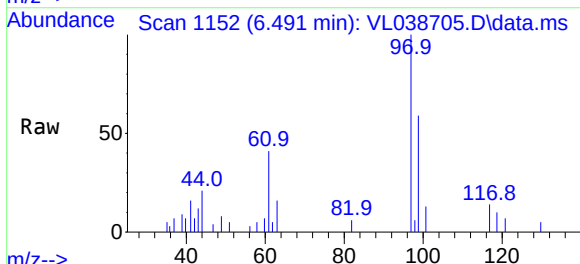
Tgt Ion: 84 Resp: 7879
Ion Ratio Lower Upper
84 100
56 0.0 108.2 162.4
41 79.0 61.8 92.6

Manual Integrations
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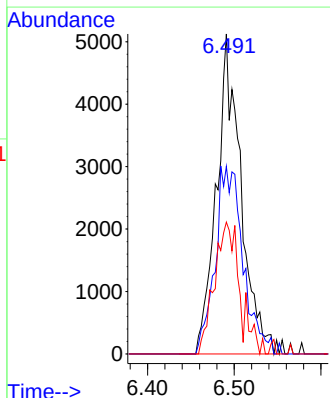
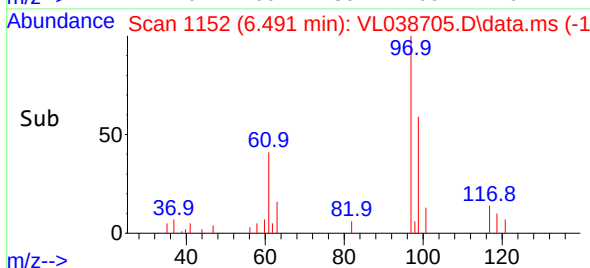
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

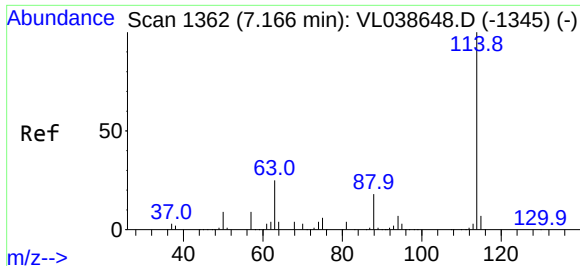


#32
1,1,1-Trichloroethane
Concen: 0.086 ppbv m
RT: 6.491 min Scan# 1152
Delta R.T. -0.013 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00



Tgt Ion: 97 Resp: 9973
Ion Ratio Lower Upper
97 100
99 67.2 51.8 77.8
61 43.9 36.7 55.1





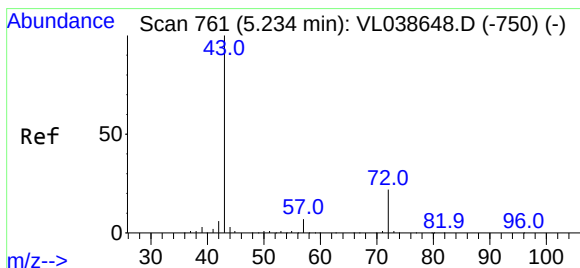
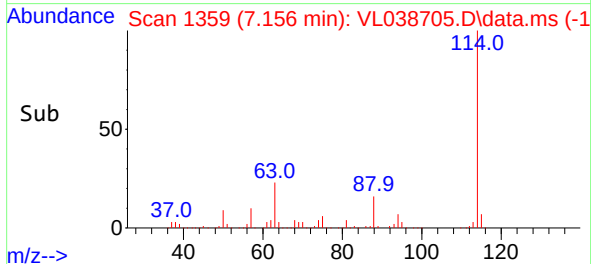
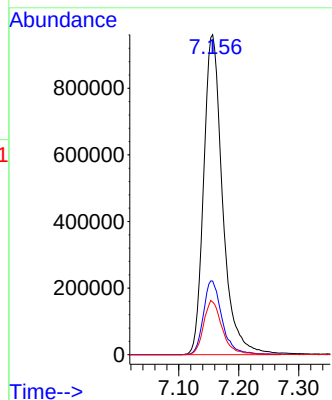
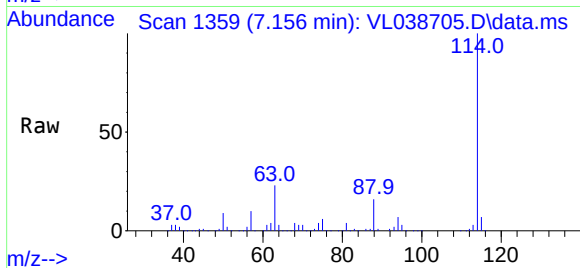
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.156 min Scan# 1114
Delta R.T. -0.010 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

Instrument :
MSVOA_L
ClientSampleId :
COP93

Tgt Ion:114 Resp: 2113490
Ion Ratio Lower Upper
114 100
63 23.0 19.4 29.0
88 16.8 13.9 20.9

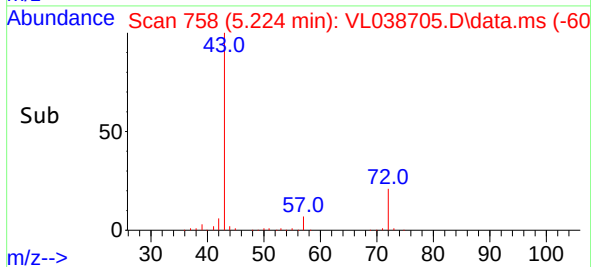
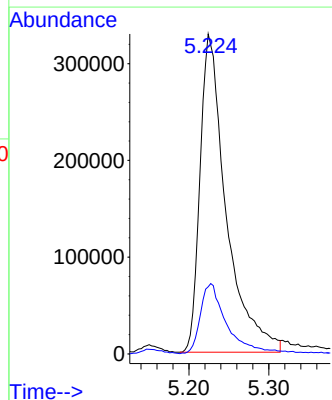
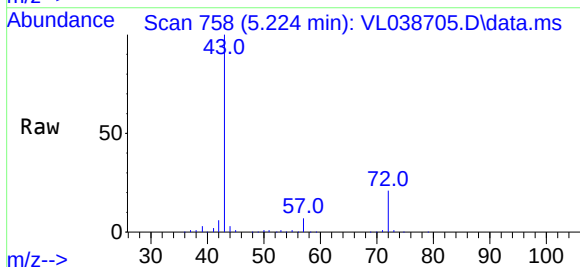
Manual Integrations
APPROVED

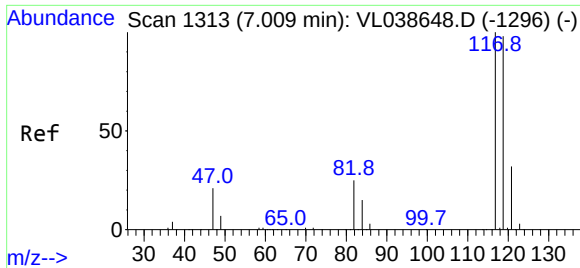
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#34
2-Butanone
Concen: 8.954 ppbv
RT: 5.224 min Scan# 758
Delta R.T. -0.010 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

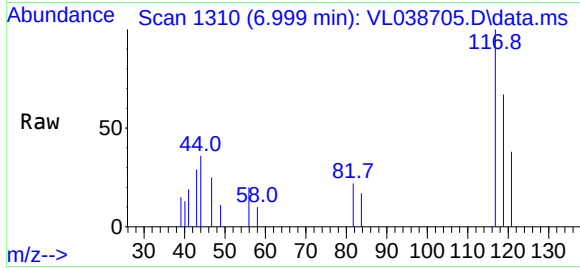
Tgt Ion: 43 Resp: 748988
Ion Ratio Lower Upper
43 100
72 23.5 17.8 26.8





#35
Carbon Tetrachloride
Concen: 0.037 ppbv m
RT: 6.999 min Scan# 117
Delta R.T. -0.010 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

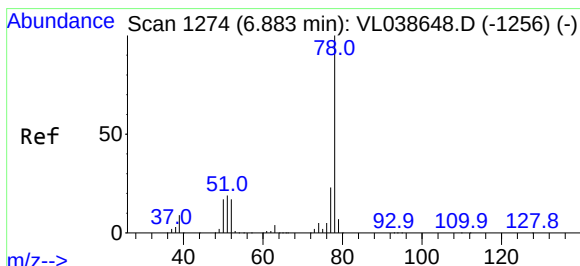
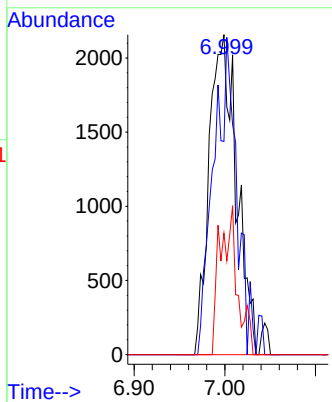
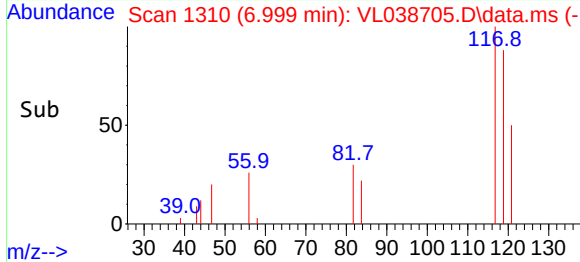
Instrument :
MSVOA_L
ClientSampleId :
COP93



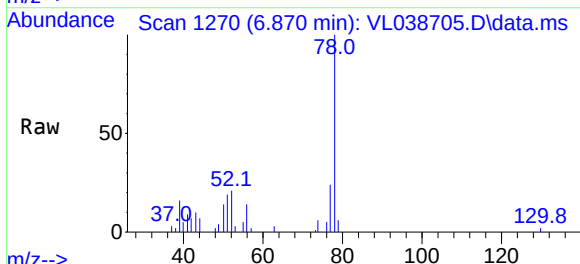
Tgt Ion: 117 Resp: 4588
Ion Ratio Lower Upper
117 100
119 66.7 78.1 117.1
121 37.9 25.8 38.6

Manual Integrations
APPROVED

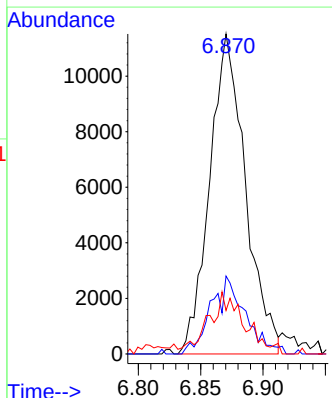
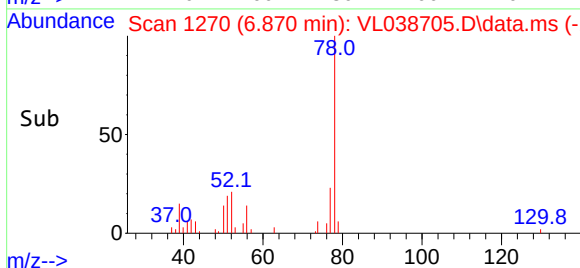
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

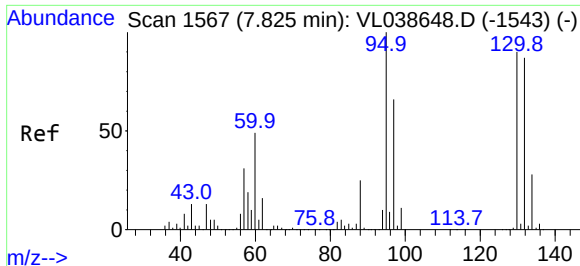


#36
Benzene
Concen: 0.141 ppbv
RT: 6.870 min Scan# 1270
Delta R.T. -0.013 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00



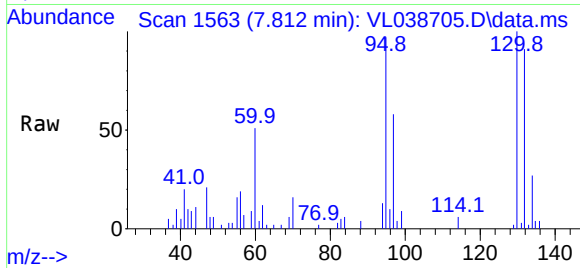
Tgt Ion: 78 Resp: 22996
Ion Ratio Lower Upper
78 100
77 24.4 18.1 27.1
50 12.2 13.6 20.4#





#38
Trichloroethene
Concen: 0.264 ppbv m
RT: 7.812 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

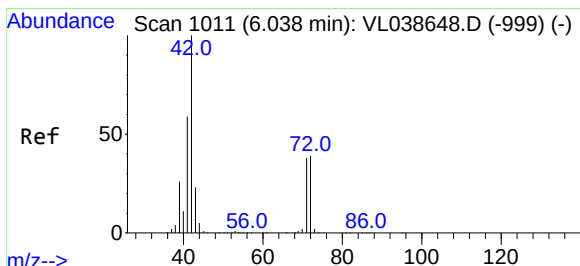
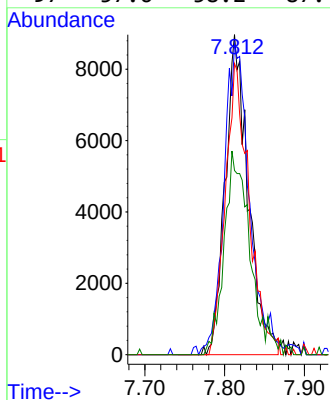
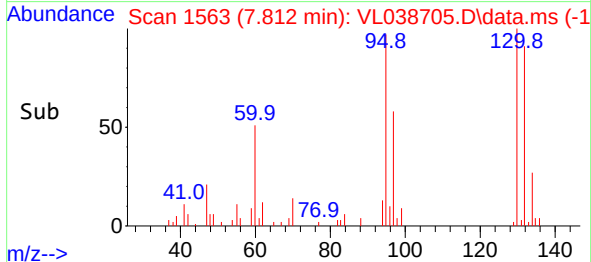
Instrument :
MSVOA_L
ClientSampleId :
COP93



Tgt Ion:130 Resp: 1801
Ion Ratio Lower Upper
130 100
95 97.3 88.9 133.3
132 91.0 77.4 116.0
97 57.6 58.2 87.4#

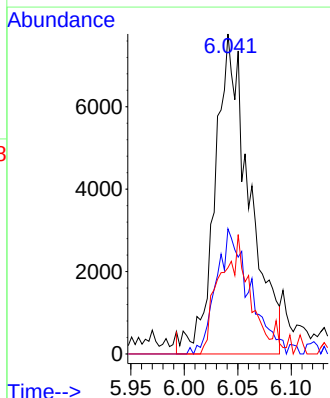
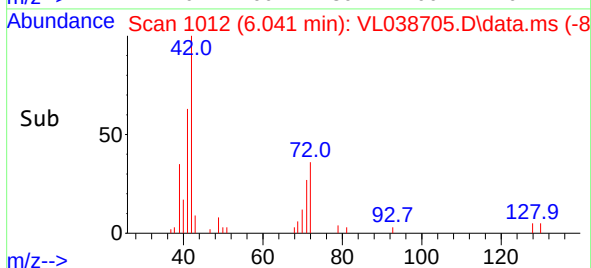
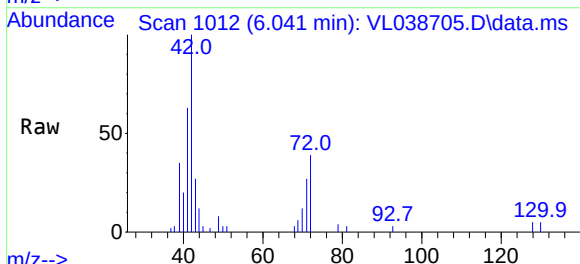
Manual Integrations
APPROVED

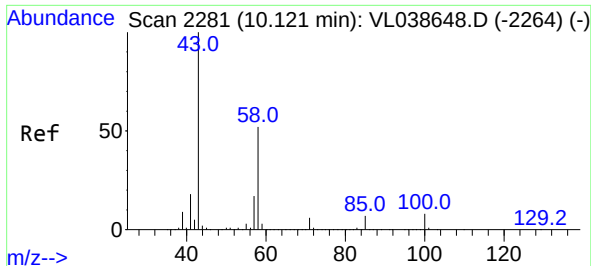
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#41
Tetrahydrofuran
Concen: 0.279 ppbv m
RT: 6.041 min Scan# 1012
Delta R.T. 0.003 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

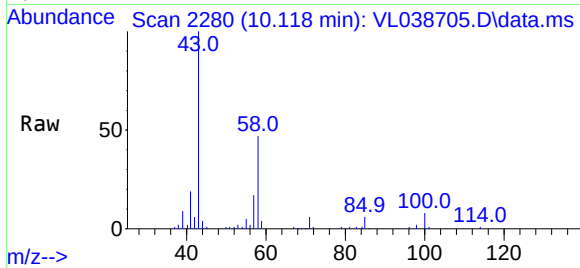
Tgt Ion: 42 Resp: 17370
Ion Ratio Lower Upper
42 100
72 39.9 32.5 48.7
71 0.0 31.4 47.2#





#51
2-Hexanone
Concen: 0.855 ppbv
RT: 10.118 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

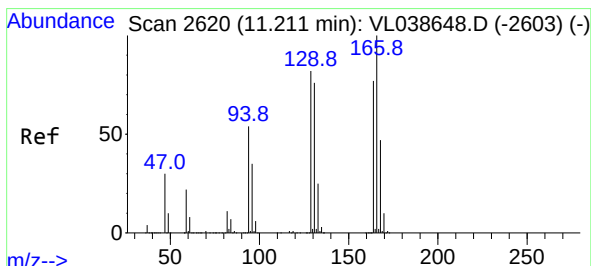
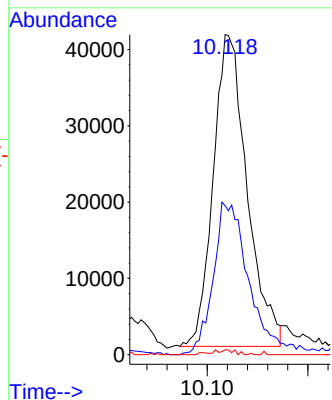
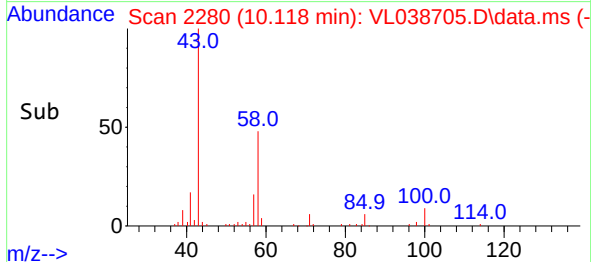
Instrument :
MSVOA_L
ClientSampleId :
COP93



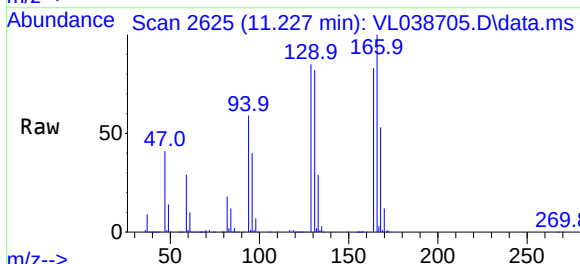
Tgt Ion: 43 Resp: 9549
Ion Ratio Lower Upper
43 100
58 51.9 41.2 61.8
98 1.0 0.2 0.4

Manual Integrations
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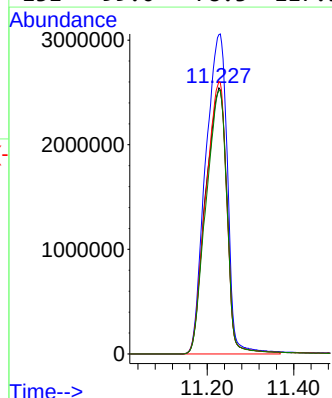
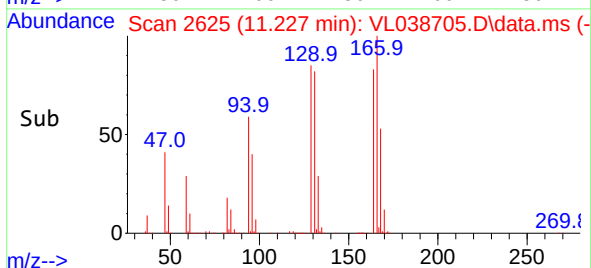
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022

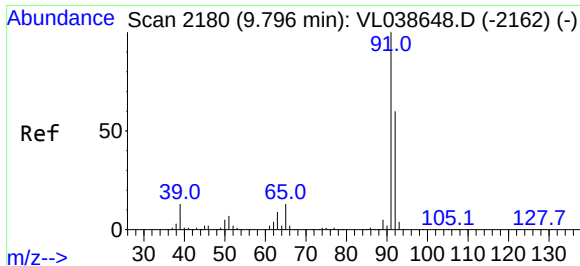


#52
Tetrachloroethene
Concen: 145.983 ppbv
RT: 11.227 min Scan# 2625
Delta R.T. 0.016 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00



Tgt Ion:164 Resp: 8713994
Ion Ratio Lower Upper
164 100
166 120.0 103.3 154.9
129 102.4 85.2 127.8
131 99.0 78.3 117.5





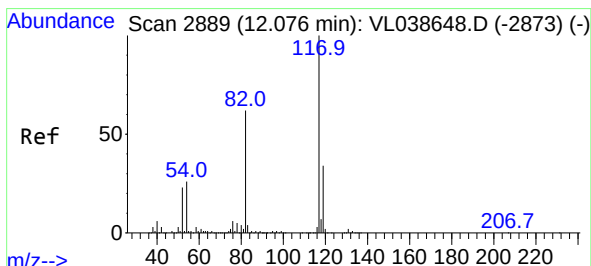
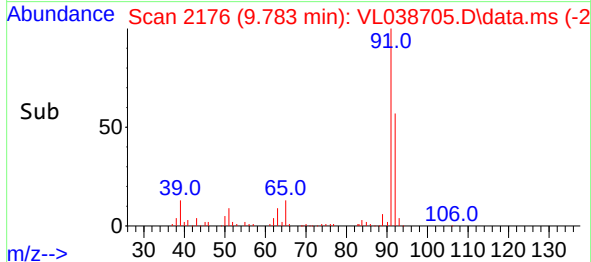
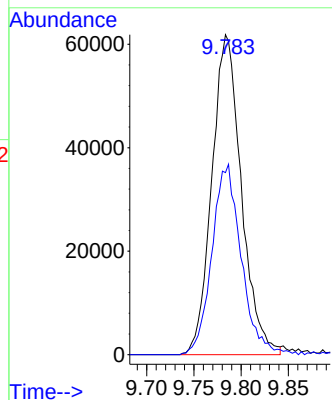
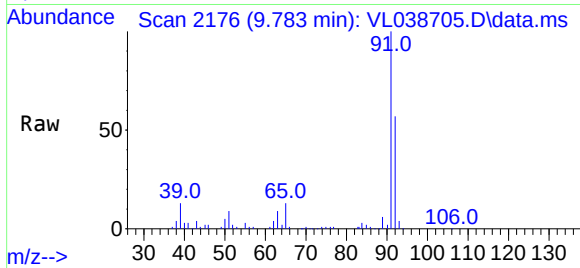
#53
Toluene
Concen: 0.766 ppbv
RT: 9.783 min Scan# 2180
Delta R.T. -0.013 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

Instrument :
MSVOA_L
ClientSampleId :
COP93

Tgt Ion: 91 Resp: 134290
Ion Ratio Lower Upper
91 100
92 59.7 48.7 73.1

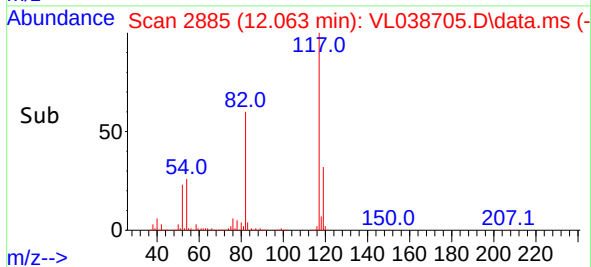
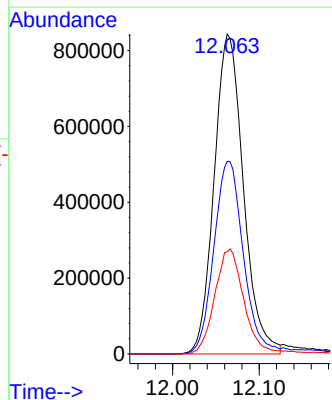
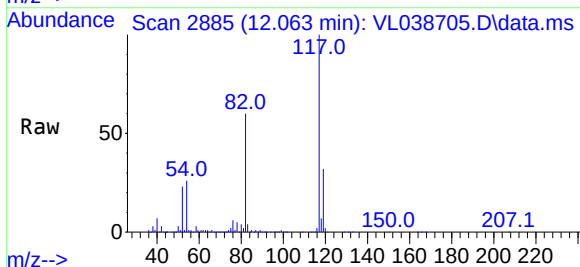
Manual Integrations
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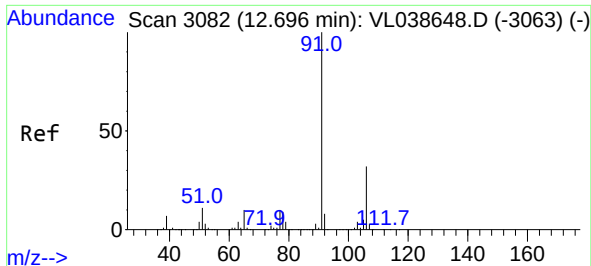
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.063 min Scan# 2885
Delta R.T. -0.013 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

Tgt Ion:117 Resp: 1977333
Ion Ratio Lower Upper
117 100
82 63.7 51.6 77.4
119 34.1 26.9 40.3





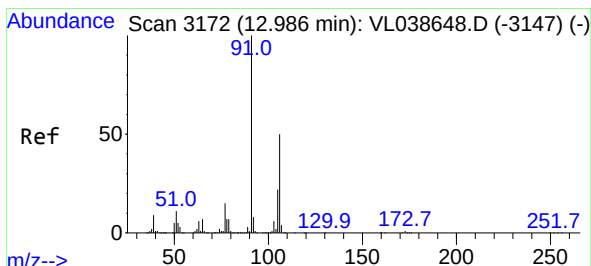
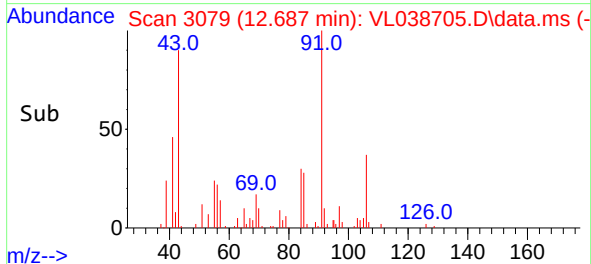
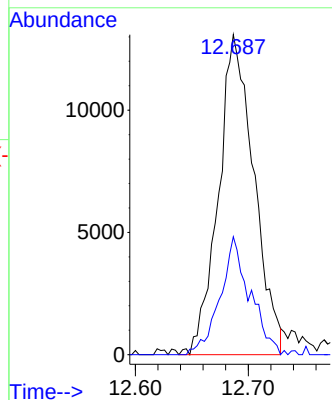
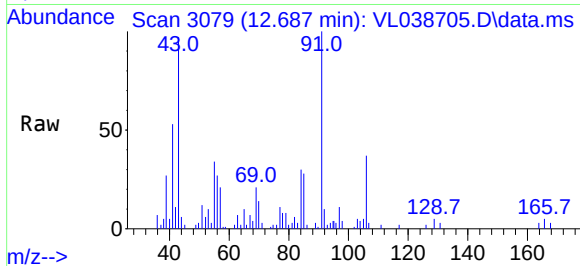
#58
Ethyl Benzene
Concen: 0.124 ppbv m
RT: 12.687 min Scan# 3082
Delta R.T. -0.010 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

Instrument :
MSVOA_L
ClientSampleId :
COP93

Tgt Ion: 91 Resp: 2858
Ion Ratio Lower Upper
91 100
106 36.9 25.4 38.0

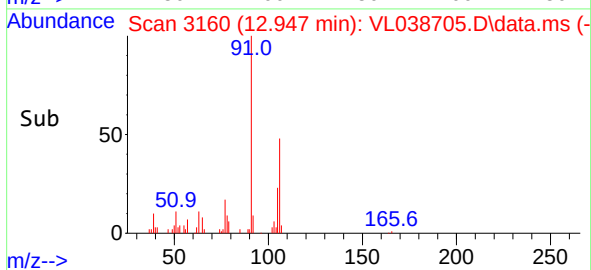
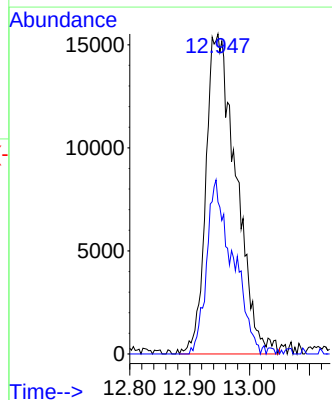
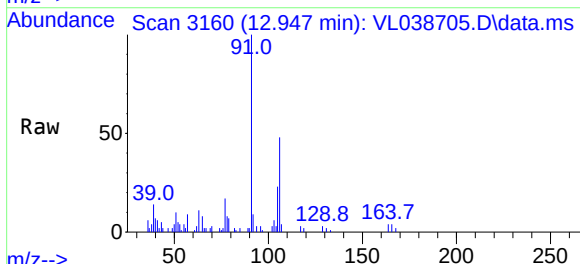
Manual Integrations
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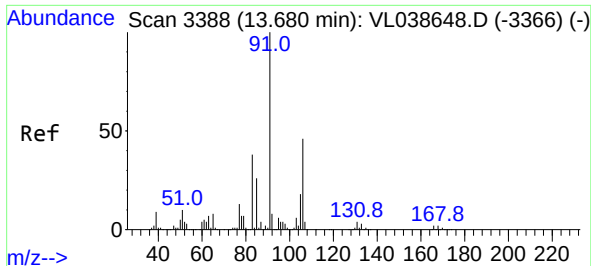
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#59
m/p-Xylene
Concen: 0.270 ppbv m
RT: 12.947 min Scan# 3160
Delta R.T. -0.039 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

Tgt Ion: 91 Resp: 54504
Ion Ratio Lower Upper
91 100
106 0.0 37.2 55.8#





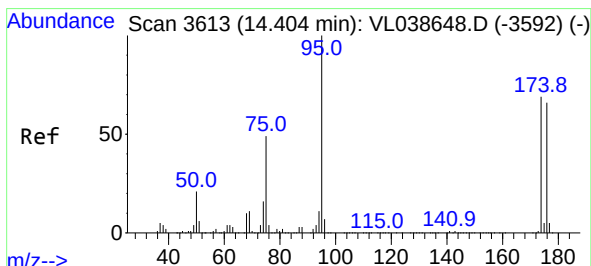
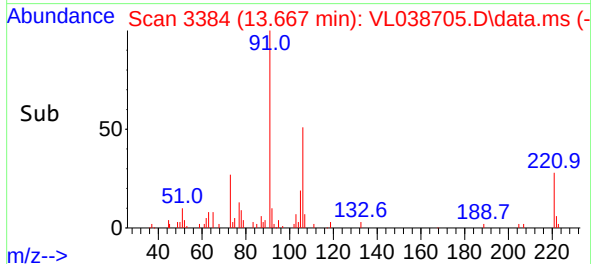
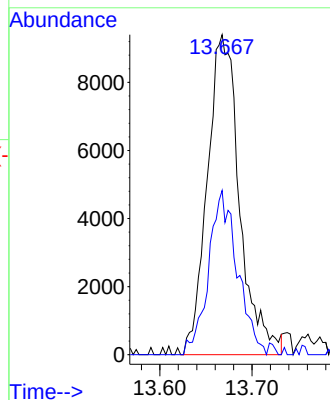
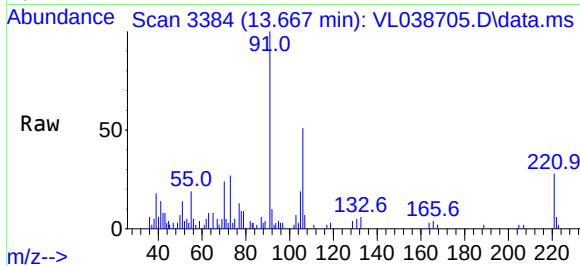
#60
o-Xylene
Concen: 0.119 ppbv m
RT: 13.667 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

Instrument :
MSVOA_L
ClientSampleId :
COP93

Tgt Ion: 91 Resp: 22860
Ion Ratio Lower Upper
91 100
106 46.6 23.5 70.5

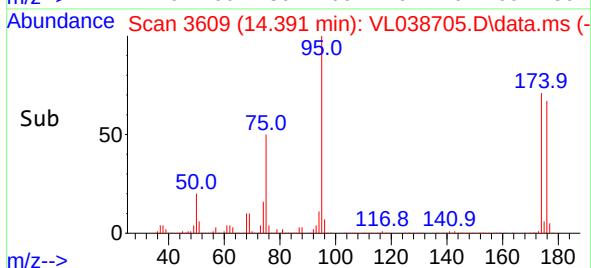
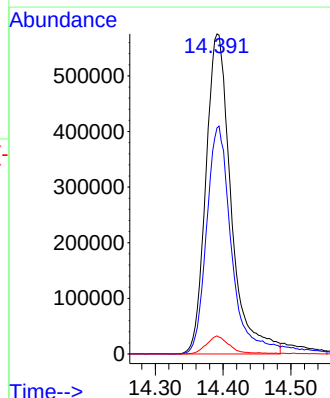
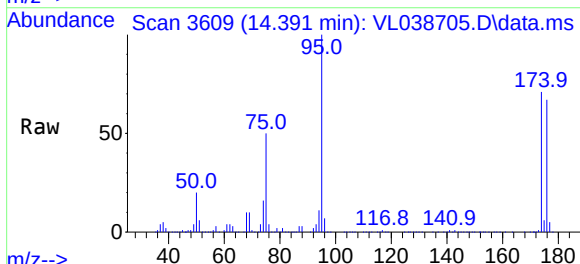
Manual Integrations
APPROVED

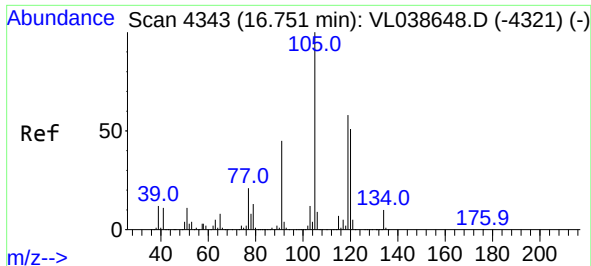
Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 9.828 ppbv
RT: 14.391 min Scan# 3609
Delta R.T. -0.013 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

Tgt Ion: 95 Resp: 1489934
Ion Ratio Lower Upper
95 100
174 72.8 56.1 84.1
175 5.2 4.2 6.2





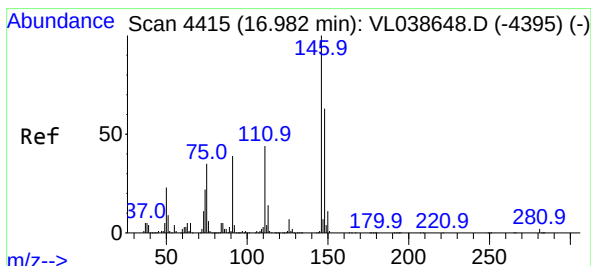
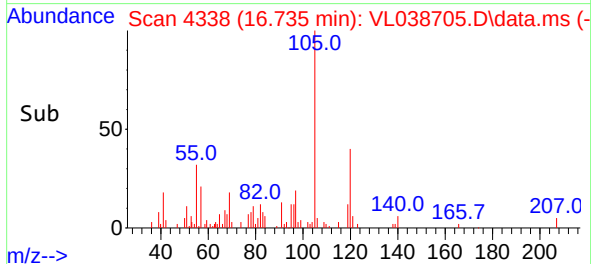
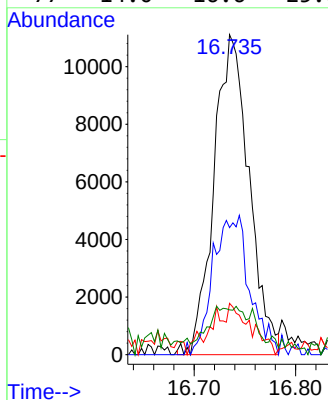
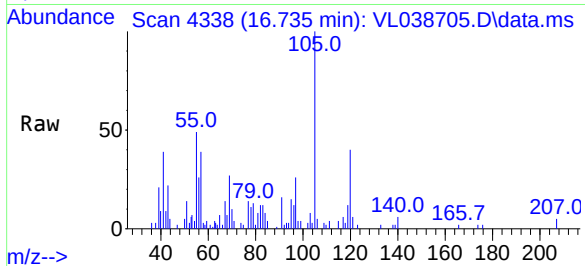
#74
1,2,4-Trimethylbenzene
Concen: 0.119 ppbv m
RT: 16.735 min Scan# 41
Delta R.T. -0.016 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

Instrument :
MSVOA_L
ClientSampleId :
COP93

Tgt Ion:	105	Resp:	2665
Ion Ratio	Lower	Upper	
105	100		
120	39.7	40.5	60.7
91	16.1	35.9	53.9
77	14.0	16.6	25.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/23/2022
Supervised By :Mahesh Dadoda 03/25/2022



#75
1,3-Dichlorobenzene
Concen: 0.264 ppbv m
RT: 16.973 min Scan# 4412
Delta R.T. -0.010 min
Lab File: VL038705.D
Acq: 23 Mar 2022 5:00

Tgt Ion:	146	Resp:	37800
Ion Ratio	Lower	Upper	
146	100		
111	211.3	22.2	66.6
148	0.0	32.5	97.5

