

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041122\
 Data File : VL038880.D
 Acq On : 11 Apr 2022 21:38
 Operator : SY/AP
 Sample : N2332-03DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/13/2022
 Supervised By : Mahesh Dadoda 04/14/2022

Quant Time: Apr 12 02:53:30 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Apr 6 2022

QLast Update : Wed Apr 06 06:12:53 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.665	49	1143552	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.173	114	3257399	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.079	117	3004436	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.401	95	2421426	10.625	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.051	85	25931	0.160	ppbv	97
4) Chloromethane	3.141	50	10563m	0.146	ppbv	
9) Propene	3.012	41	212618	2.879	ppbv	88
10) Heptane	8.115	43	567470	3.051	ppbv	99
13) Ethanol	3.604	45	229229	51.084	ppbv #	100
15) Acetone	3.842	43	7166691	62.948	ppbv	99
17) tert-Butyl alcohol	4.308	59	531451	5.205	ppbv #	72
19) Isopropyl Alcohol	3.960	45	1455419	25.012	ppbv #	100
20) Methylene Chloride	4.343	84	28238m	0.684	ppbv	
25) Ethyl Acetate	5.665	43	8653111	29.954	ppbv #	88
30) Cyclohexane	7.121	84	60808m	0.525	ppbv	
34) 2-Butanone	5.237	43	1745574	13.562	ppbv	97
36) Benzene	6.883	78	225596	0.761	ppbv	95
41) Tetrahydrofuran	6.047	42	135060	1.105	ppbv #	88
44) 2,2,4-Trimethylpentane	7.857	57	377314m	0.752	ppbv	
50) 4-Methyl-2-Pentanone	8.735	43	444836	1.536	ppbv	98
52) Tetrachloroethene	11.208	164	10666m	0.103	ppbv	
53) Toluene	9.803	91	16244626	47.488	ppbv	89
58) Ethyl Benzene	12.703	91	1013000	2.256	ppbv	94
59) m/p-Xylene	12.954	91	2916834	7.733	ppbv	99
60) o-Xylene	13.677	91	940328	2.664	ppbv	94
61) Styrene	13.516	104	1178727	5.482	ppbv	99
62) Isopropylbenzene	14.658	105	40228	0.076	ppbv	95
64) n-propylbenzene	15.545	120	30477m	0.222	ppbv	
72) 4-Ethyltoluene	15.822	105	211074m	0.501	ppbv	
73) 1,3,5-Trimethylbenzene	15.986	105	151510	0.400	ppbv	99
74) 1,2,4-Trimethylbenzene	16.748	105	496821	1.241	ppbv #	71
79) Naphthalene	22.194	128	30350m	0.101	ppbv	

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

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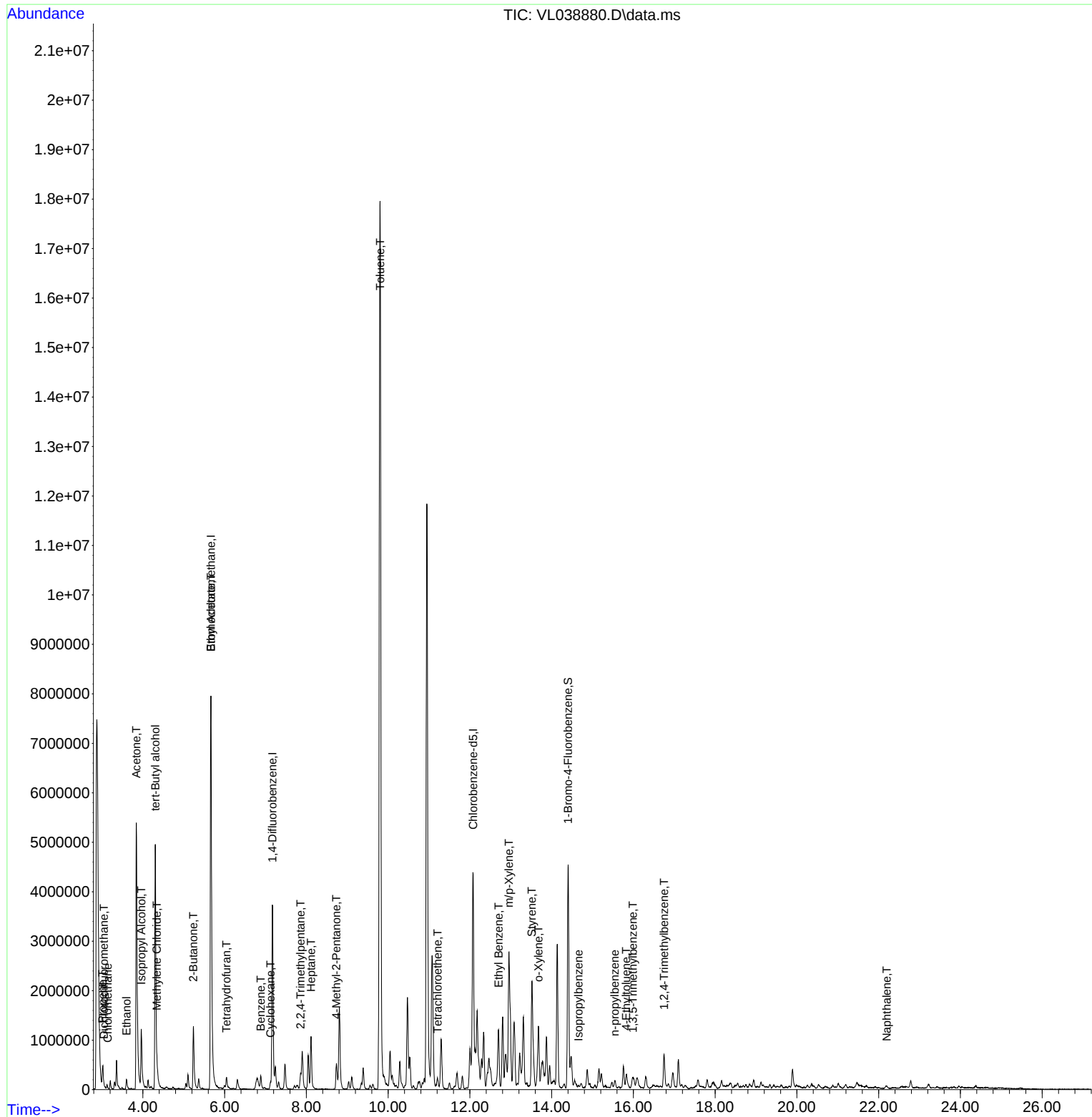
Quant Time: Apr 12 02:53:30 2022

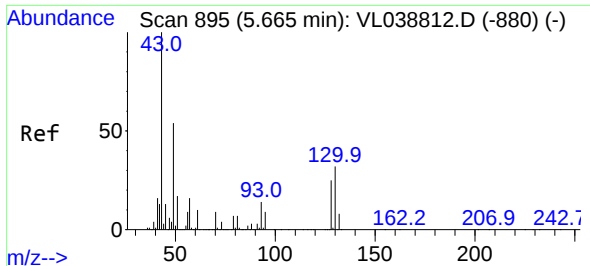
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr

QLast Update : Wed Apr 06 06:12:53 2022

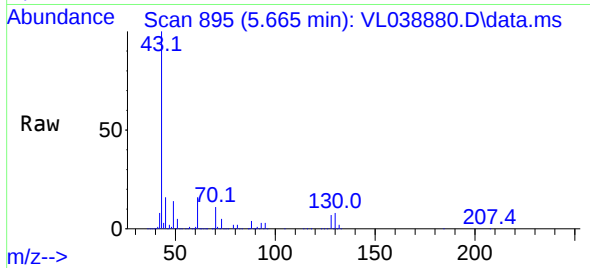
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.665 min Scan# 895
Delta R.T. -0.000 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

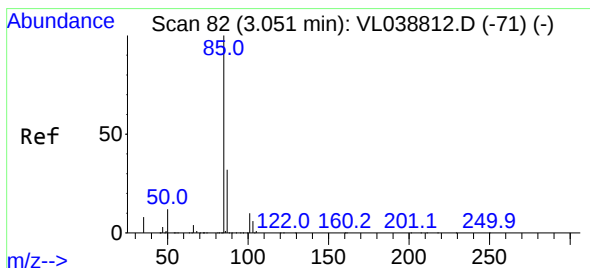
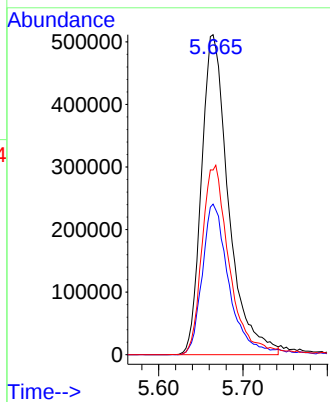
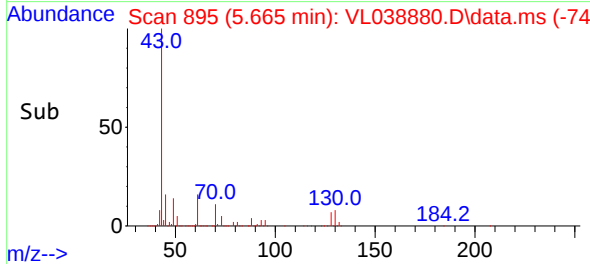
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL



Tgt Ion: 49 Resp: 1143552
Ion Ratio Lower Upper
49 100
128 47.7 24.1 72.3
130 60.9 30.9 92.8

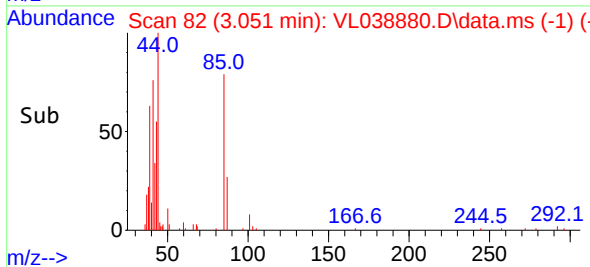
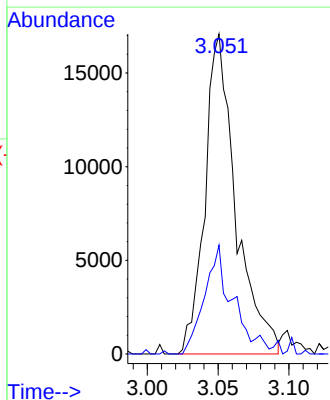
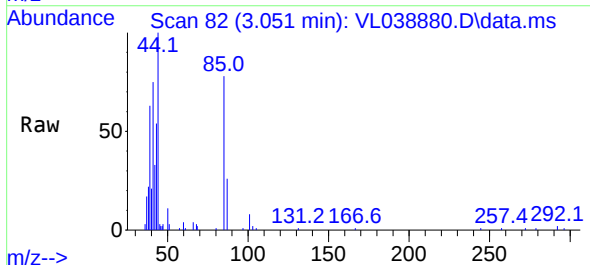
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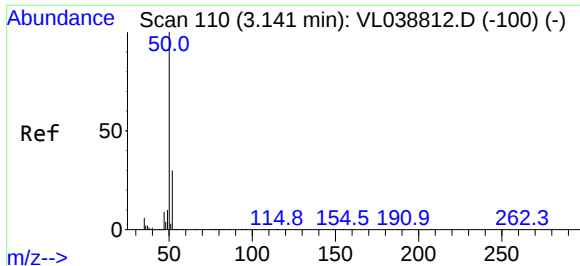
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#2
Dichlorodifluoromethane
Concen: 0.160 ppbv
RT: 3.051 min Scan# 82
Delta R.T. -0.000 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

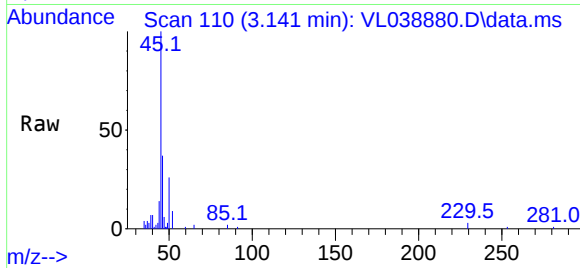
Tgt Ion: 85 Resp: 25931
Ion Ratio Lower Upper
85 100
87 34.0 25.9 38.9





#4
Chloromethane
Concen: 0.146 ppbv m
RT: 3.141 min Scan# 110
Delta R.T. -0.000 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

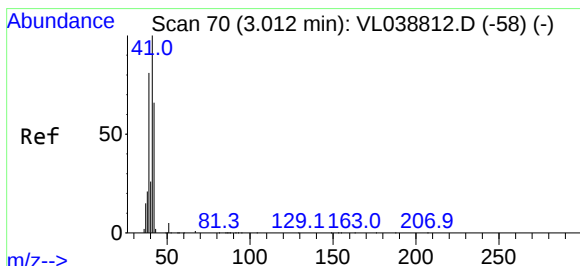
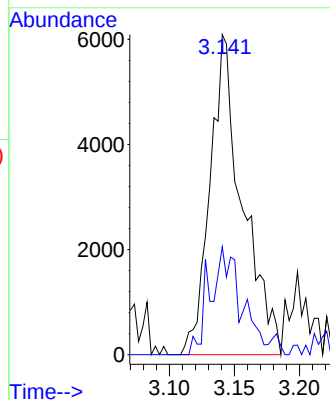
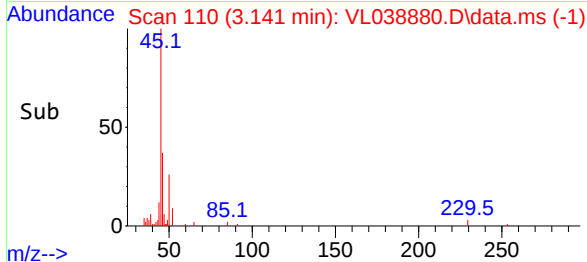
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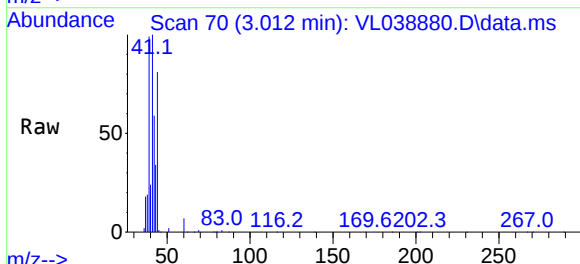
Tgt Ion: 50 Resp: 1056
Ion Ratio Lower Upper
50 100
52 33.7 24.3 36.5

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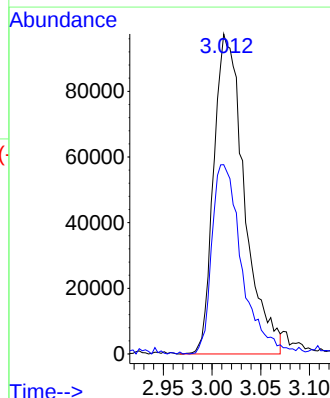
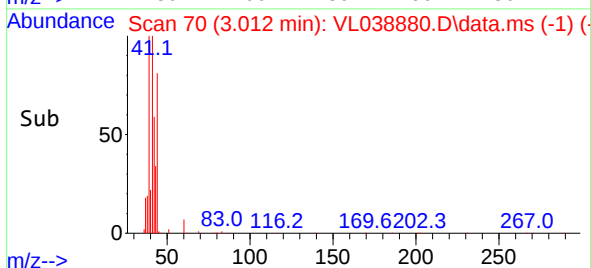
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

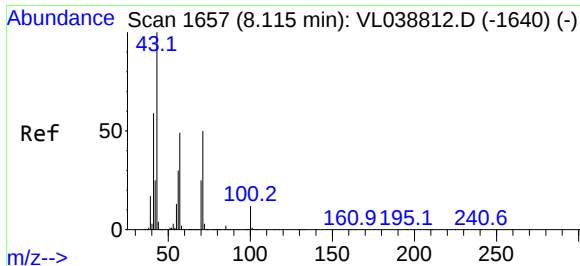


#9
Propene
Concen: 2.879 ppbv
RT: 3.012 min Scan# 70
Delta R.T. -0.000 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38



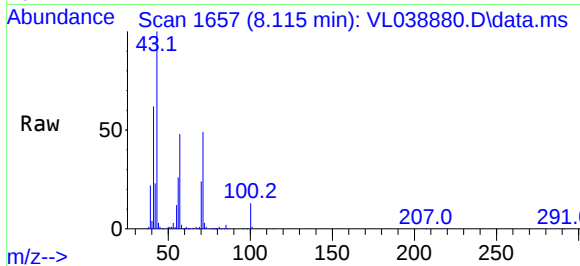
Tgt Ion: 41 Resp: 212618
Ion Ratio Lower Upper
41 100
42 58.4 54.2 81.4





#10
Heptane
Concen: 3.051 ppbv
RT: 8.115 min Scan# 1657
Delta R.T. -0.000 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

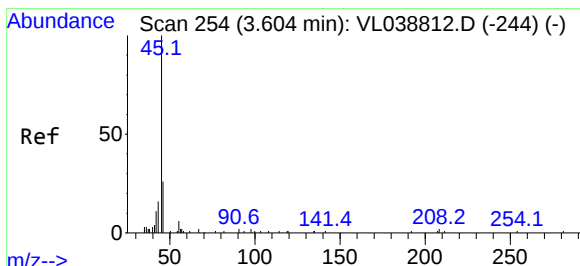
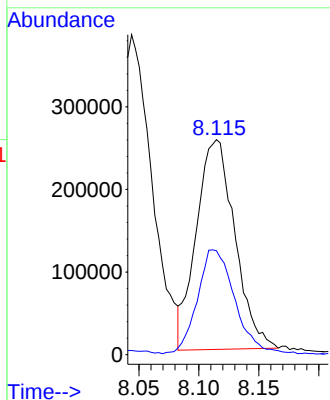
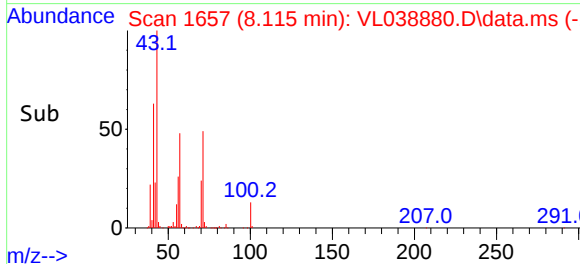
Instrument :
MSVOA_L
ClientSampleId :
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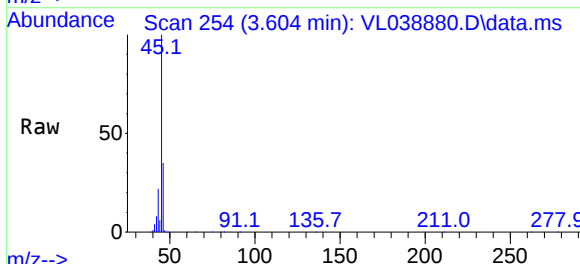
Tgt Ion: 43 Resp: 567470
Ion Ratio Lower Upper
43 100
57 49.7 39.3 58.9

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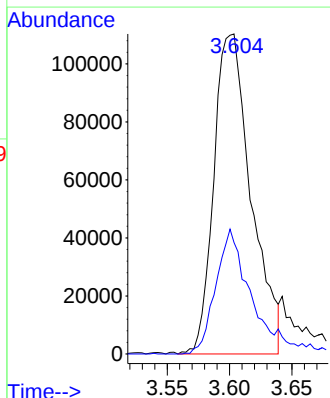
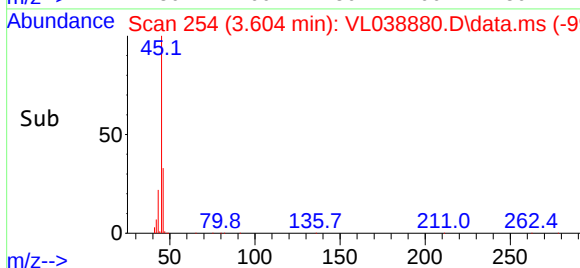
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

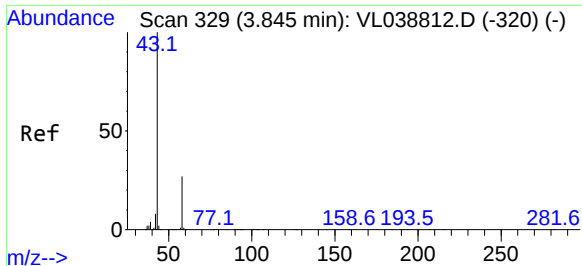


#13
Ethanol
Concen: 51.084 ppbv
RT: 3.604 min Scan# 254
Delta R.T. -0.000 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38



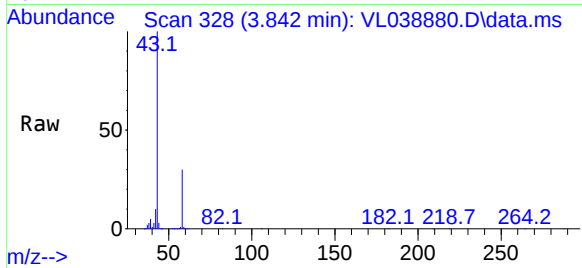
Tgt Ion: 45 Resp: 229229
Ion Ratio Lower Upper
45 100
46 39.7 0.0 0.0#





#15
Acetone
Concen: 62.948 ppbv
RT: 3.842 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

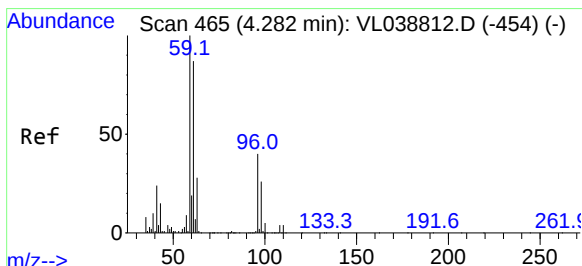
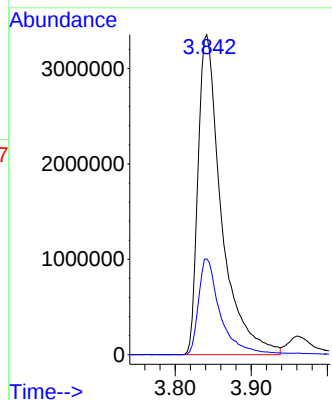
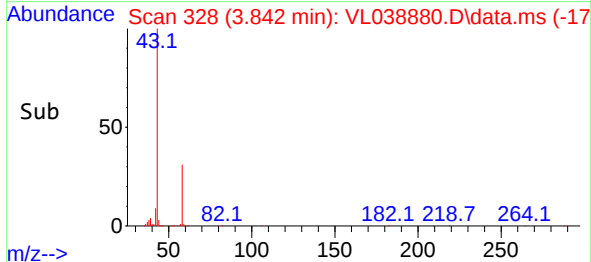
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL



Tgt Ion: 43 Resp: 716669
Ion Ratio Lower Upper
43 100
58 28.8 22.5 33.7

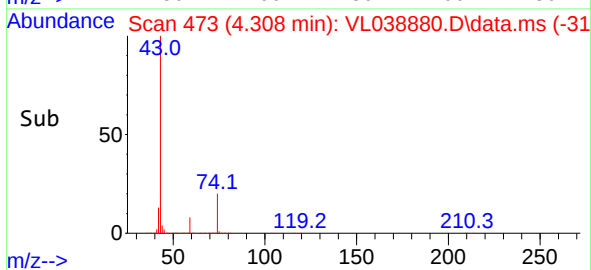
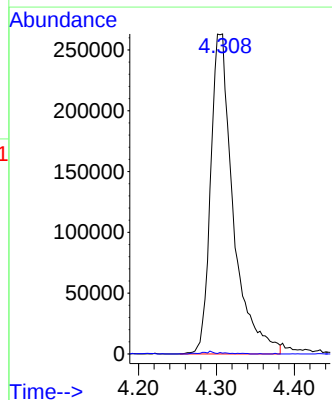
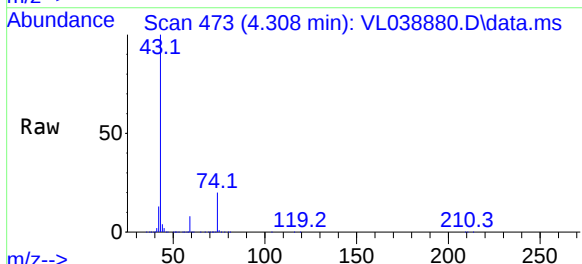
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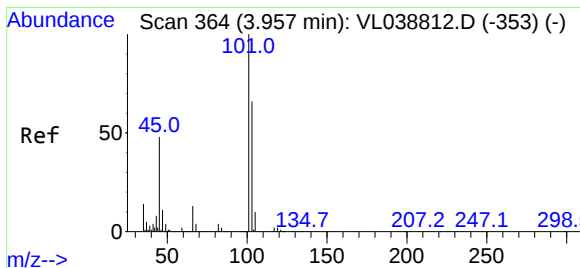
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#17
tert-Butyl alcohol
Concen: 5.205 ppbv
RT: 4.308 min Scan# 473
Delta R.T. 0.026 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

Tgt Ion: 59 Resp: 531451
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





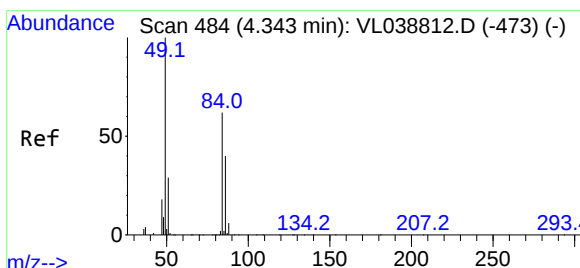
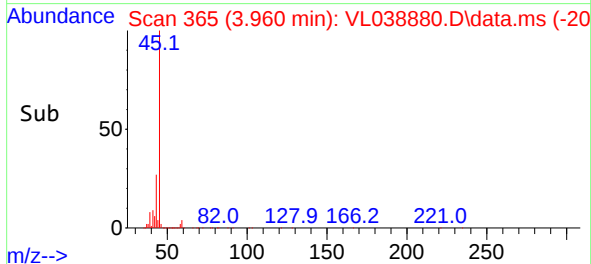
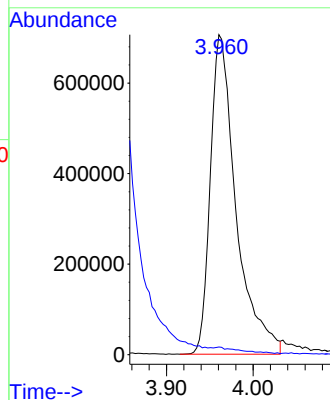
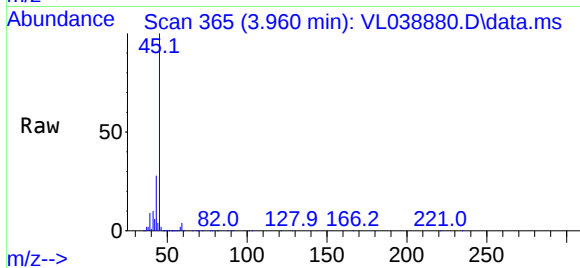
#19
Isopropyl Alcohol
Concen: 25.012 ppbv
RT: 3.960 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

Instrument :
MSVOA_L
ClientSampleId :
IA-3DL

Tgt Ion: 45 Resp: 1455419
Ion Ratio Lower Upper
45 100
58 141.9 0.0 0.0

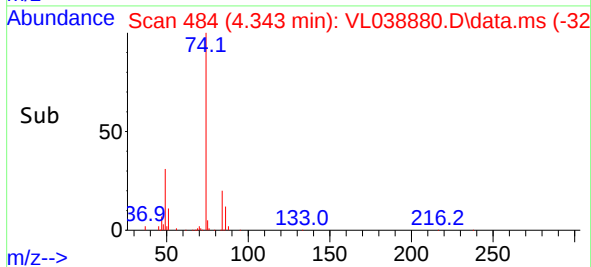
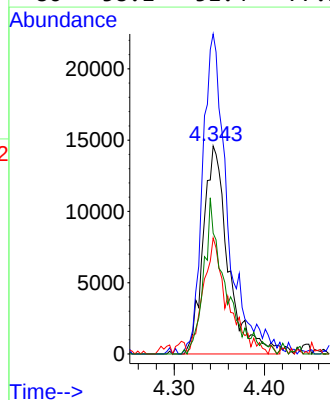
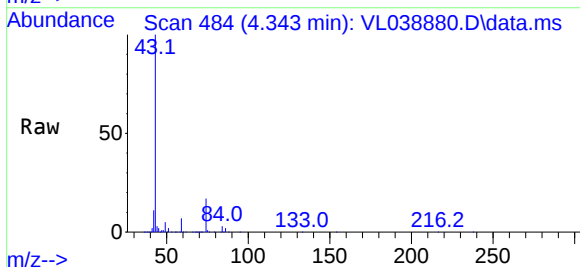
Manual Integrations
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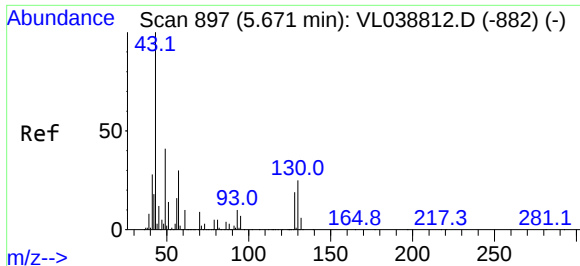
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#20
Methylene Chloride
Concen: 0.684 ppbv m
RT: 4.343 min Scan# 484
Delta R.T. -0.000 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

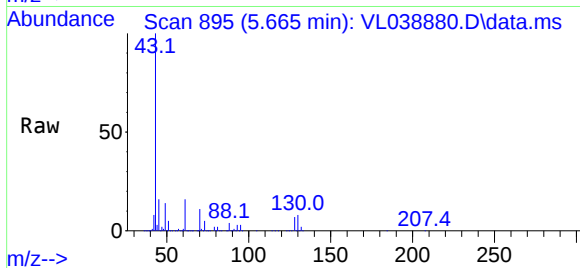
Tgt Ion: 84 Resp: 28238
Ion Ratio Lower Upper
84 100
49 153.9 129.4 194.0
51 55.8 37.4 56.2
86 58.1 51.4 77.2





#25
Ethyl Acetate
Concen: 29.954 ppbv
RT: 5.665 min Scan# 895
Delta R.T. -0.006 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

Instrument :
MSVOA_L
Client Sample Id :
IA-3DL

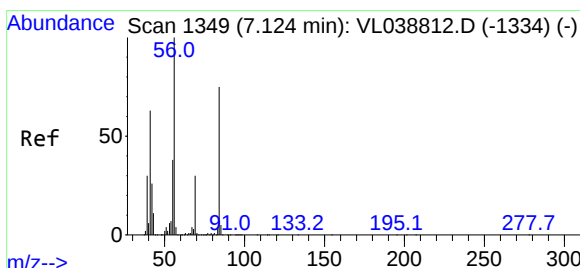
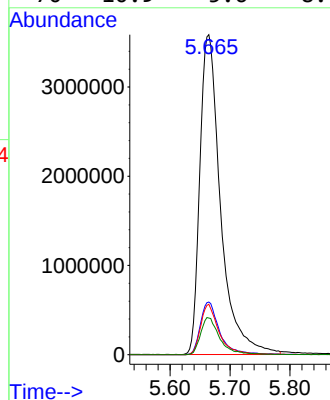
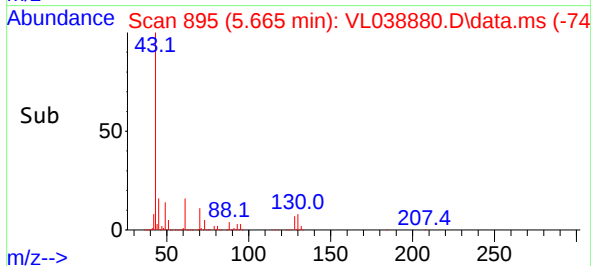


Tgt Ion: 43 Resp: 865311

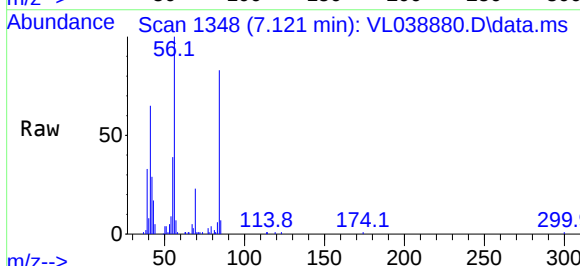
Ion	Ratio	Lower	Upper
43	100		
45	15.3	8.4	12.6
61	14.2	7.9	11.9
70	10.9	5.6	8.4

Manual Integrations
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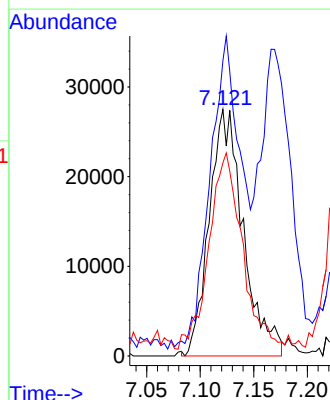
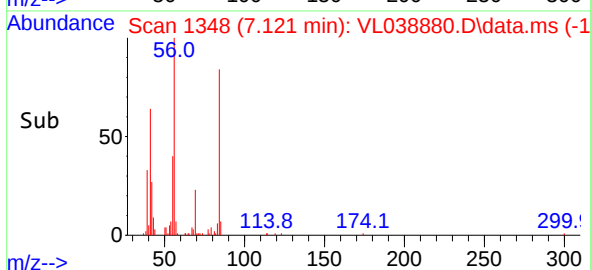


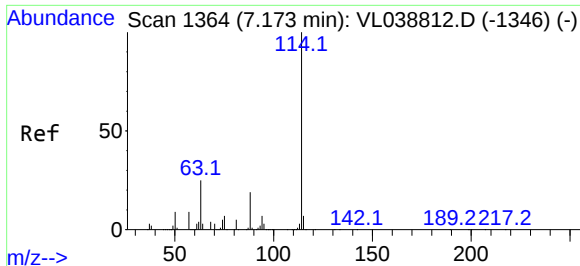
#30
Cyclohexane
Concen: 0.525 ppbv m
RT: 7.121 min Scan# 1348
Delta R.T. -0.003 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38



Tgt Ion: 84 Resp: 60808

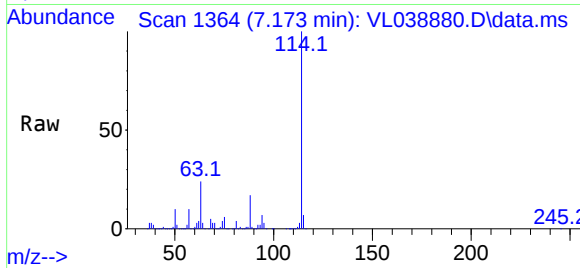
Ion	Ratio	Lower	Upper
84	100		
56	109.0	114.4	171.6
41	78.1	69.0	103.4





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.173 min Scan# 114
Delta R.T. -0.000 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

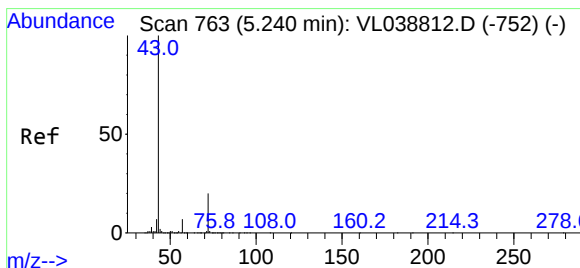
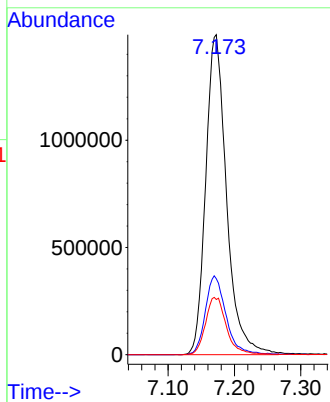
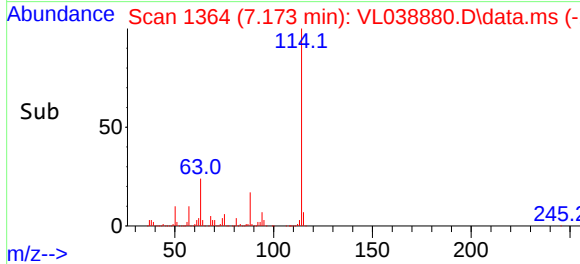
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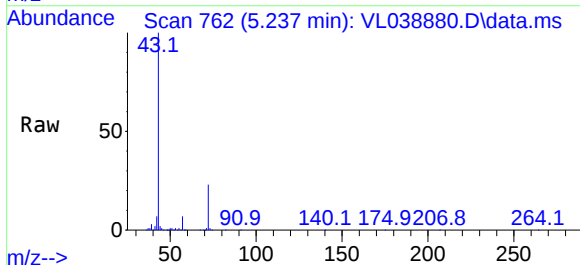
Tgt Ion:114 Resp: 3257399
Ion Ratio Lower Upper
114 100
63 24.7 19.8 29.8
88 18.1 14.2 21.4

Manual Integrations
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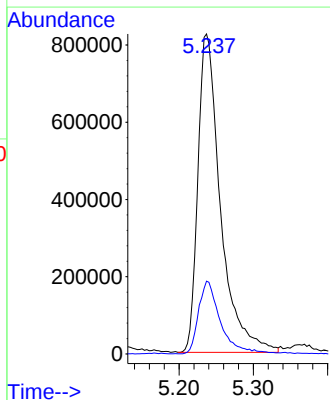
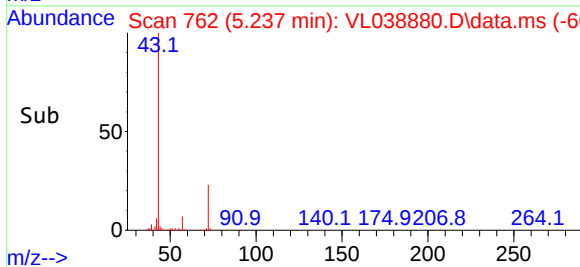
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

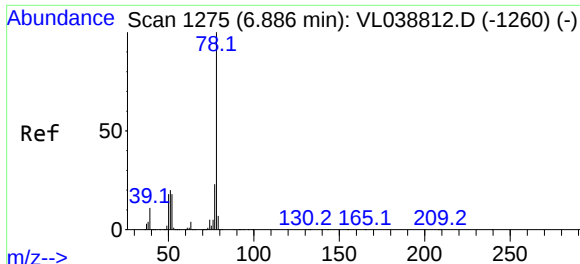


#34
2-Butanone
Concen: 13.562 ppbv
RT: 5.237 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38



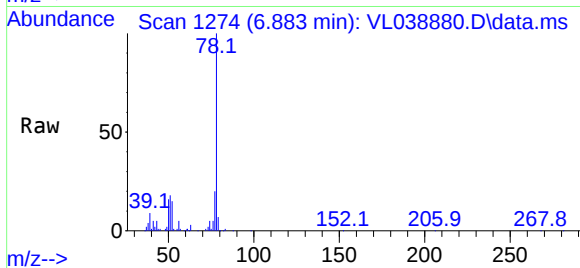
Tgt Ion: 43 Resp: 1745574
Ion Ratio Lower Upper
43 100
72 22.5 16.9 25.3





#36
Benzene
Concen: 0.761 ppbv
RT: 6.883 min Scan# 1014
Delta R.T. -0.003 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

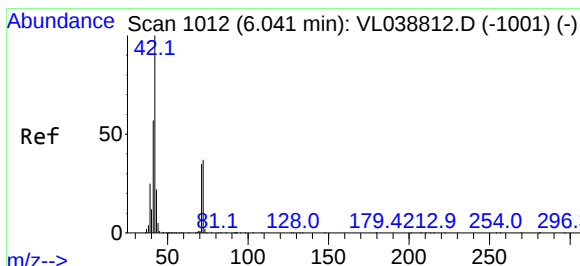
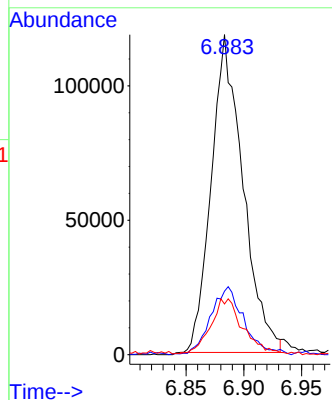
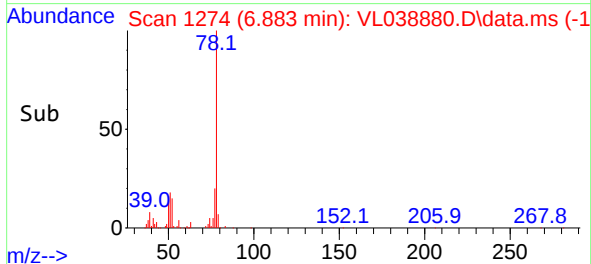
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL



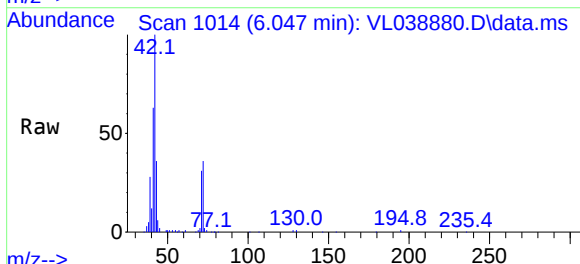
Tgt Ion: 78 Resp: 225590
Ion Ratio Lower Upper
78 100
77 19.8 18.2 27.2
50 15.6 14.0 21.0

Manual Integrations
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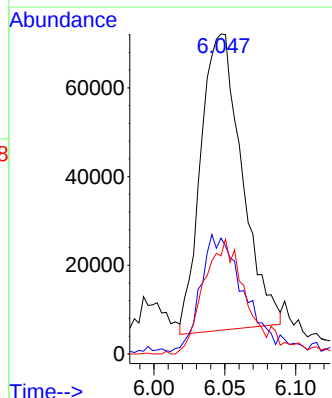
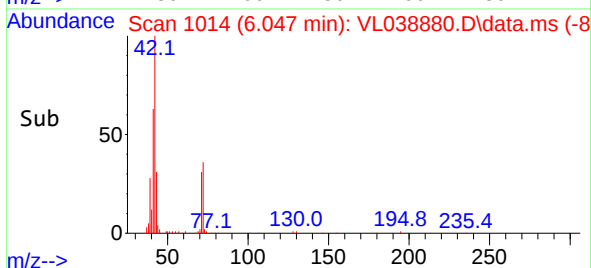
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

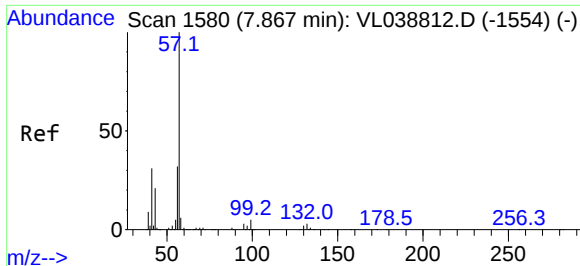


#41
Tetrahydrofuran
Concen: 1.105 ppbv
RT: 6.047 min Scan# 1014
Delta R.T. 0.006 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38



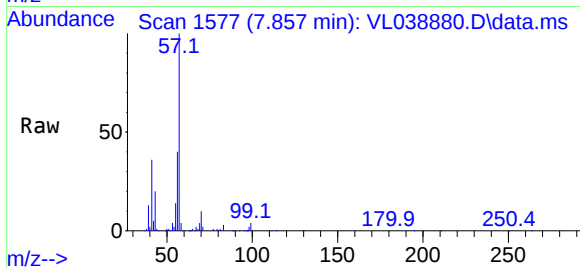
Tgt Ion: 42 Resp: 135060
Ion Ratio Lower Upper
42 100
72 47.1 31.4 47.0#
71 43.8 30.2 45.4





#44
2,2,4-Trimethylpentane
Concen: 0.752 ppbv m
RT: 7.857 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

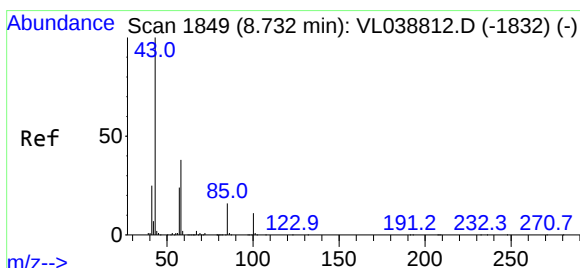
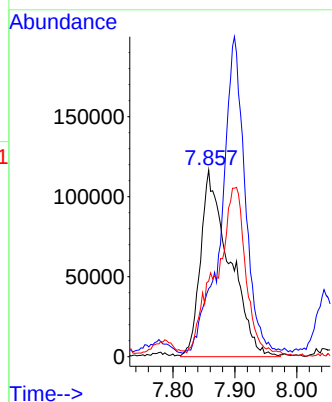
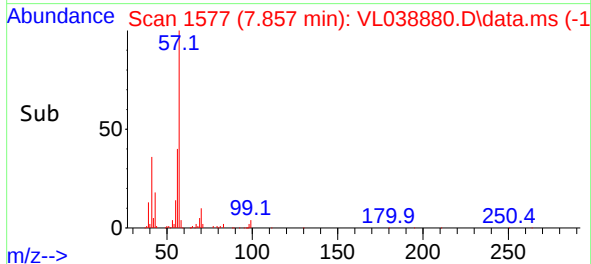
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL



Tgt Ion: 57 Resp: 377314
Ion Ratio Lower Upper
57 100
41 0.0 25.0 37.4
56 0.0 25.3 37.9

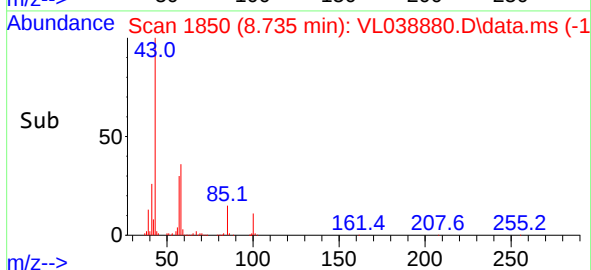
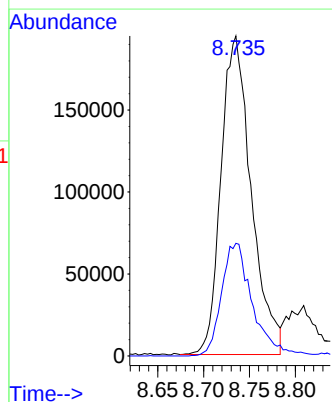
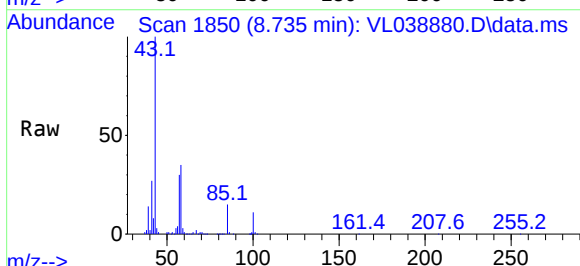
Manual Integrations
APPROVED

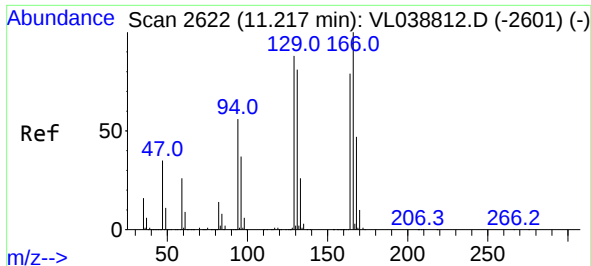
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#50
4-Methyl-2-Pentanone
Concen: 1.536 ppbv
RT: 8.735 min Scan# 1850
Delta R.T. 0.003 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

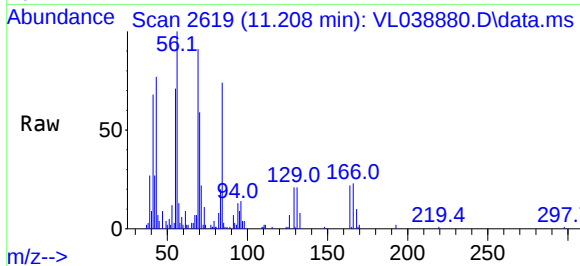
Tgt Ion: 43 Resp: 444836
Ion Ratio Lower Upper
43 100
58 37.3 29.0 43.6





#52
Tetrachloroethene
Concen: 0.103 ppbv m
RT: 11.208 min Scan# 2619
Delta R.T. -0.010 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

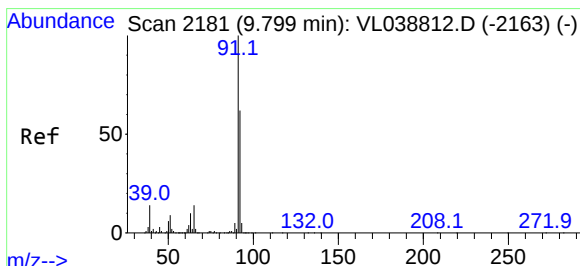
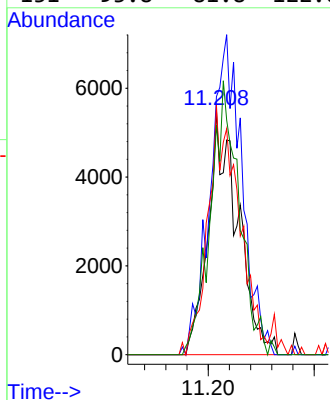
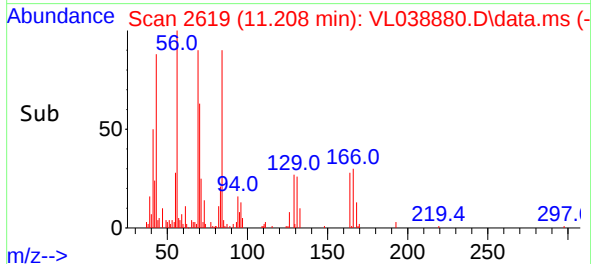
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL



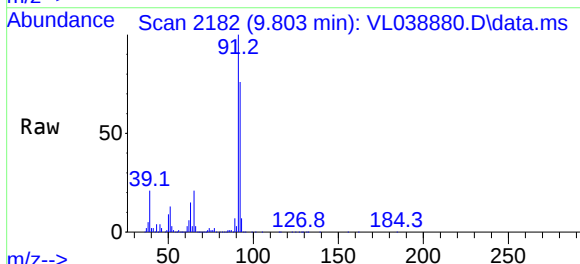
Tgt Ion:164 Resp: 10660
Ion Ratio Lower Upper
164 100
166 105.6 101.0 151.6
129 96.3 88.7 133.1
131 93.8 81.8 122.6

Manual Integrations
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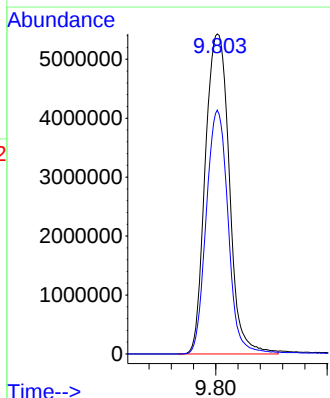
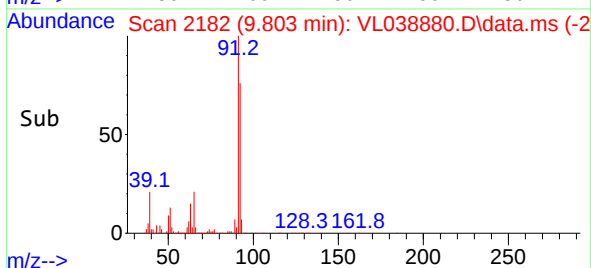
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

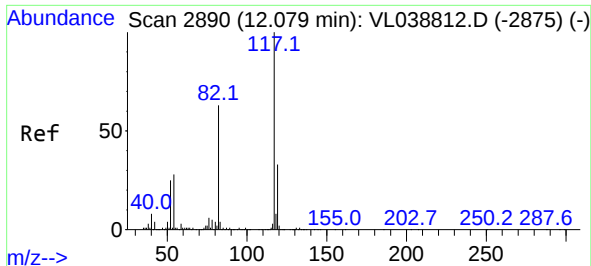


#53
Toluene
Concen: 47.488 ppbv
RT: 9.803 min Scan# 2182
Delta R.T. 0.003 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38



Tgt Ion: 91 Resp:16244626
Ion Ratio Lower Upper
91 100
92 70.2 49.2 73.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.079 min Scan# 2890

Delta R.T. -0.000 min

Lab File: VL038880.D

Acq: 11 Apr 2022 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-3DL

Tgt Ion:117 Resp: 3004430

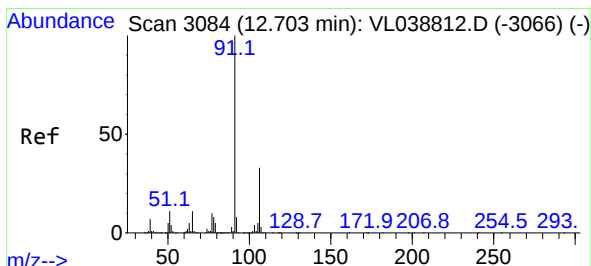
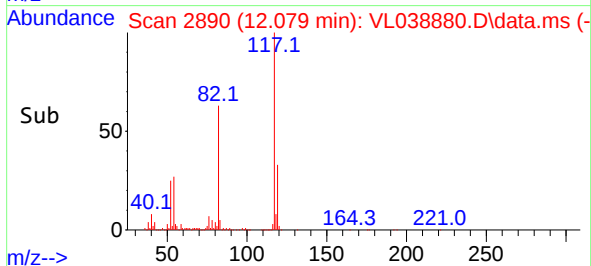
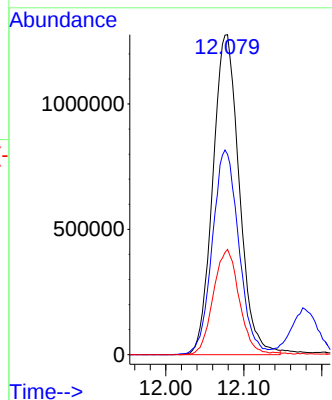
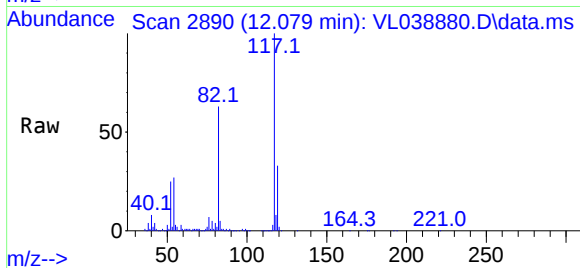
Ion	Ratio	Lower	Upper
117	100		
82	64.4	53.0	79.6
119	32.7	24.9	37.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/13/2022

Supervised By :Mahesh Dadoda 04/14/2022



#58

Ethyl Benzene

Concen: 2.256 ppbv

RT: 12.703 min Scan# 3084

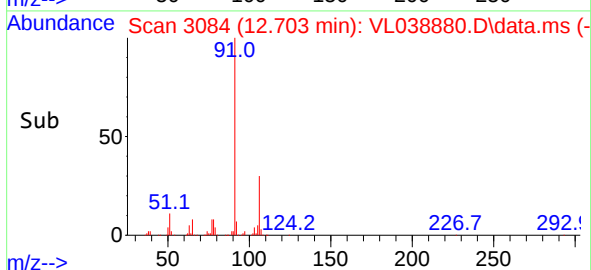
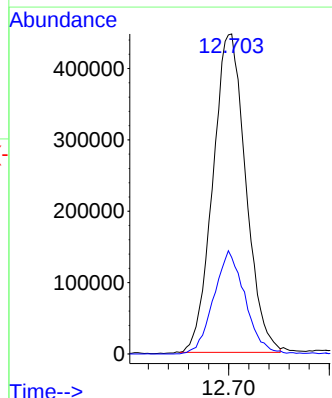
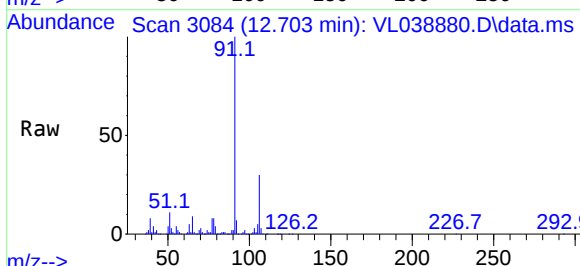
Delta R.T. -0.000 min

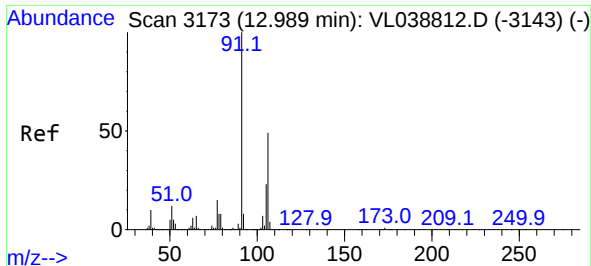
Lab File: VL038880.D

Acq: 11 Apr 2022 21:38

Tgt Ion: 91 Resp: 1013000

Ion	Ratio	Lower	Upper
91	100		
106	30.3	26.7	40.1





#59

m/p-Xylene

Concen: 7.733 ppbv

RT: 12.954 min Scan# 3173

Delta R.T. -0.035 min

Lab File: VL038880.D

Acq: 11 Apr 2022 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-3DL

Tgt Ion: 91 Resp: 2916834

Ion Ratio Lower Upper

91 100

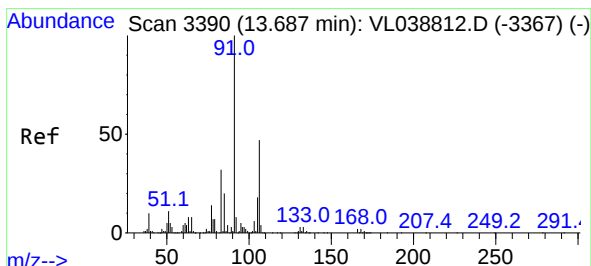
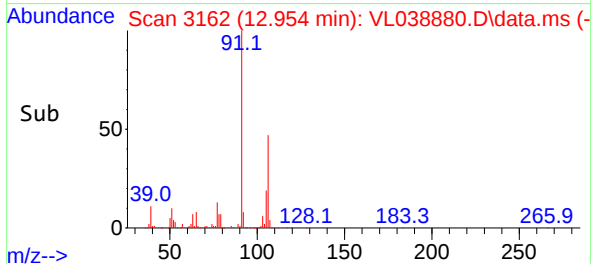
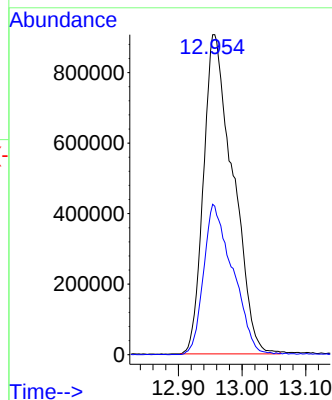
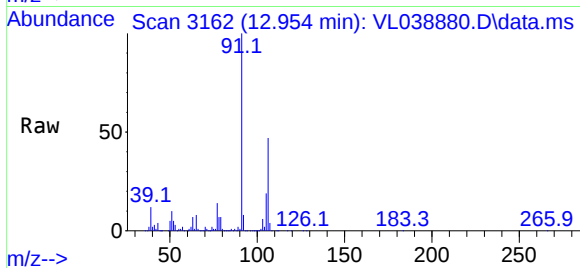
106 46.9 37.1 55.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/13/2022

Supervised By :Mahesh Dadoda 04/14/2022



#60

o-Xylene

Concen: 2.664 ppbv

RT: 13.677 min Scan# 3387

Delta R.T. -0.010 min

Lab File: VL038880.D

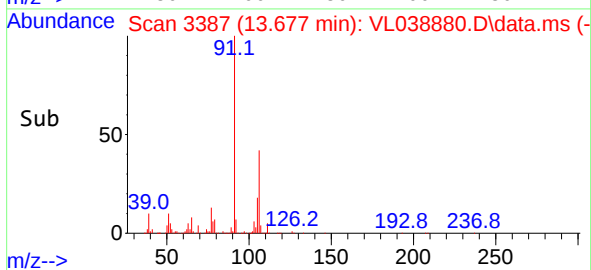
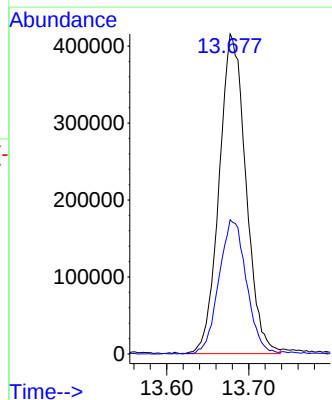
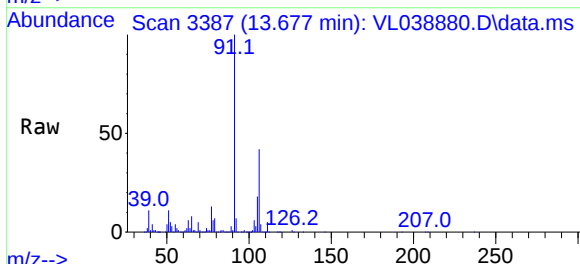
Acq: 11 Apr 2022 21:38

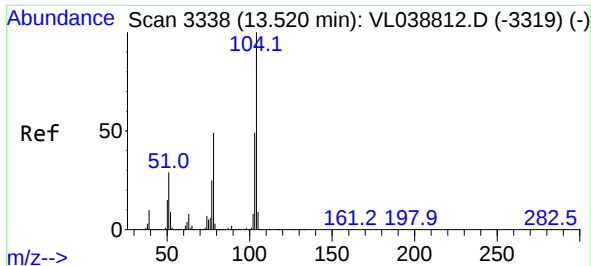
Tgt Ion: 91 Resp: 940328

Ion Ratio Lower Upper

91 100

106 43.9 23.8 71.4





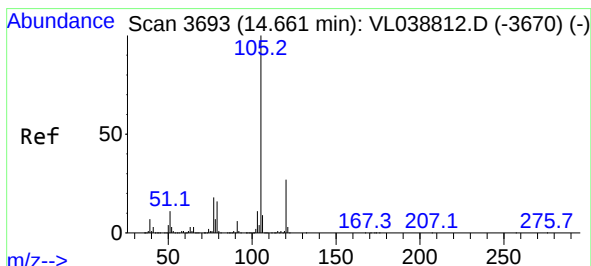
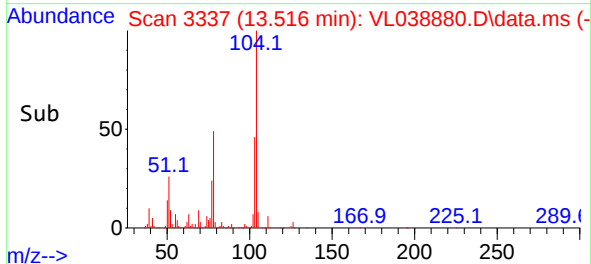
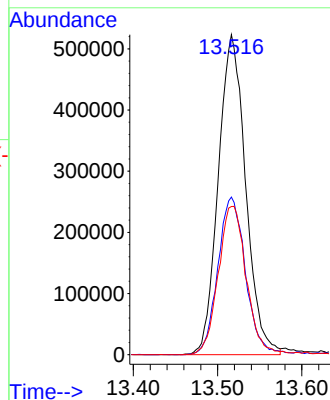
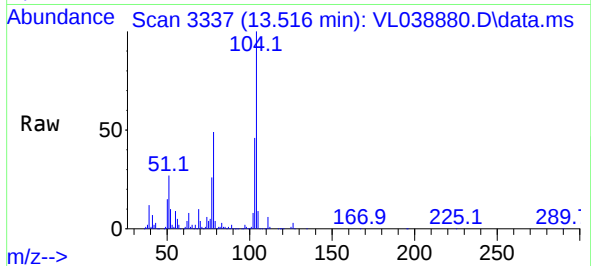
#61
Styrene
Concen: 5.482 ppbv
RT: 13.516 min Scan# 311
Delta R.T. -0.003 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

Instrument : MSVOA_L
Client Sample Id : IA-3DL

Tgt Ion:104 Resp: 117872
Ion Ratio Lower Upper
104 100
78 50.1 40.5 60.7
103 48.0 39.0 58.4

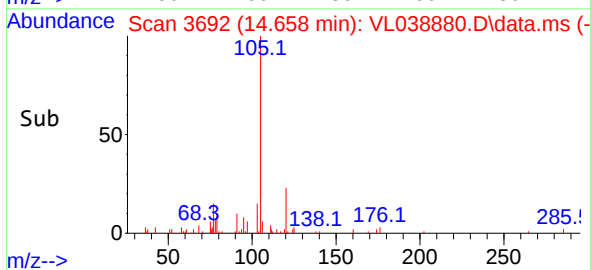
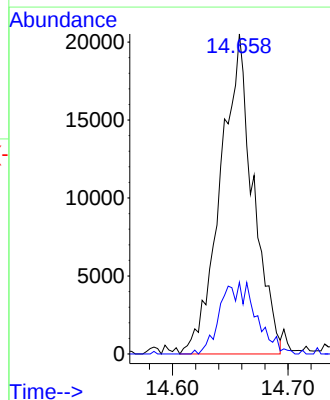
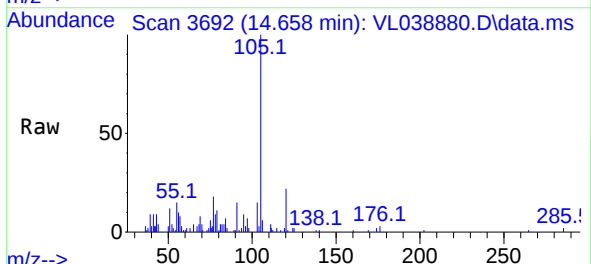
Manual Integrations
APPROVED

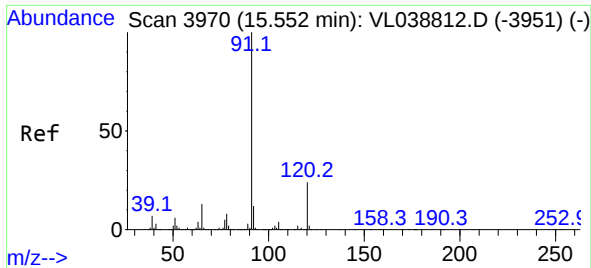
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#62
Isopropylbenzene
Concen: 0.076 ppbv
RT: 14.658 min Scan# 3692
Delta R.T. -0.003 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

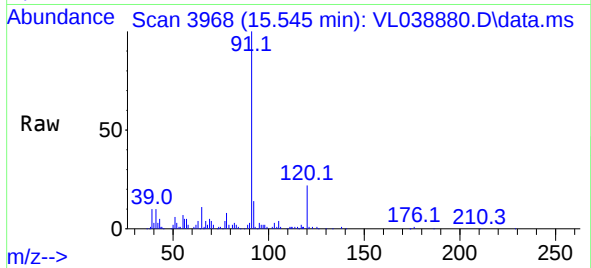
Tgt Ion:105 Resp: 40228
Ion Ratio Lower Upper
105 100
120 24.9 21.8 32.8





#64
n-propylbenzene
Concen: 0.222 ppbv m
RT: 15.545 min Scan# 3968
Delta R.T. -0.006 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

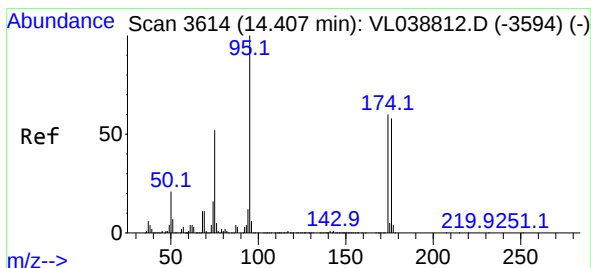
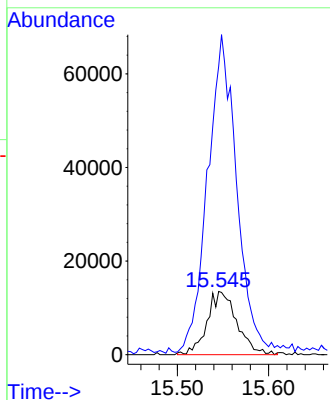
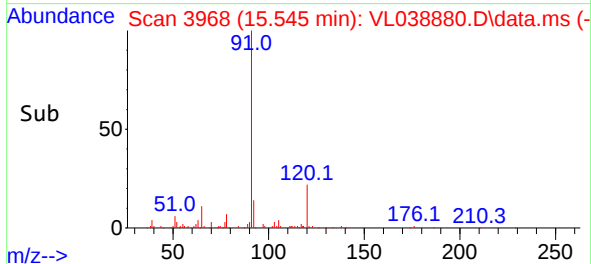
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL



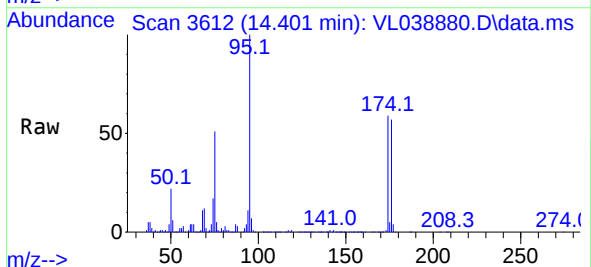
Tgt Ion:120 Resp: 3047
Ion Ratio Lower Upper
120 100
91 495.4 360.6 540.8

Manual Integrations
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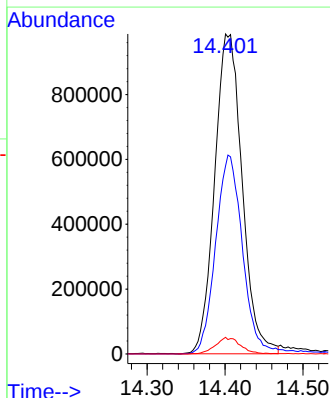
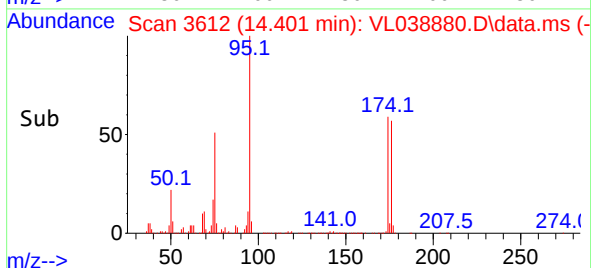
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

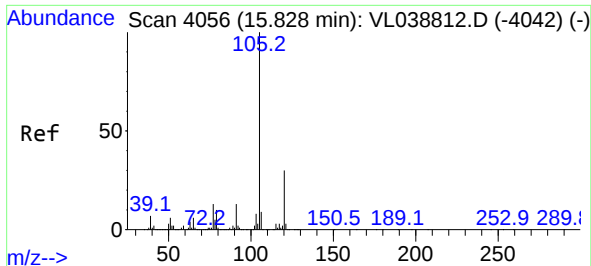


#68
1-Bromo-4-Fluorobenzene
Concen: 10.625 ppbv
RT: 14.401 min Scan# 3612
Delta R.T. -0.006 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38



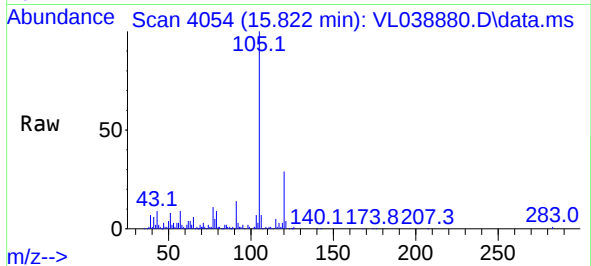
Tgt Ion: 95 Resp: 2421426
Ion Ratio Lower Upper
95 100
174 62.3 52.0 78.0
175 4.8 4.0 6.0





#72
4-Ethyltoluene
Concen: 0.501 ppbv m
RT: 15.822 min Scan# 4056
Delta R.T. -0.006 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

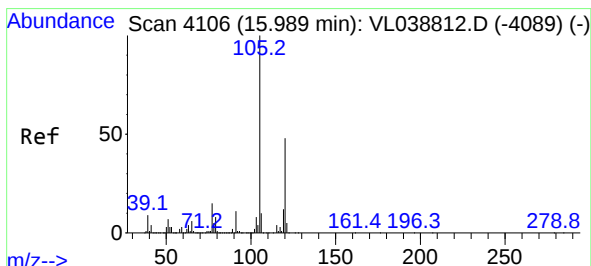
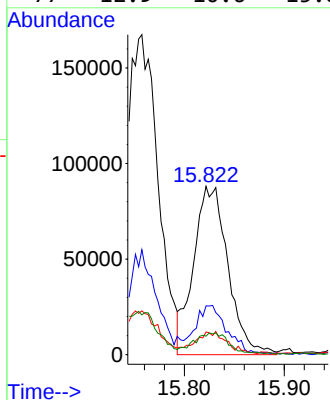
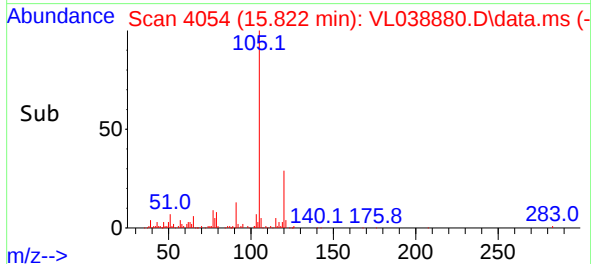
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL



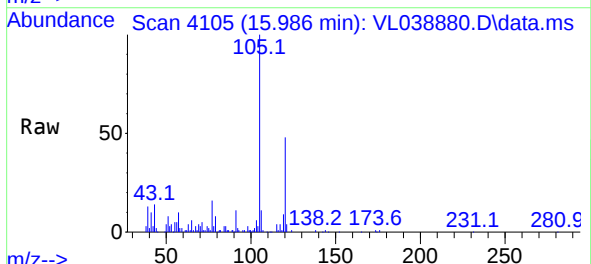
Tgt Ion:105 Resp: 211074
Ion Ratio Lower Upper
105 100
120 29.2 24.3 36.5
91 11.4 9.4 14.2
77 12.9 10.6 15.8

Manual Integrations
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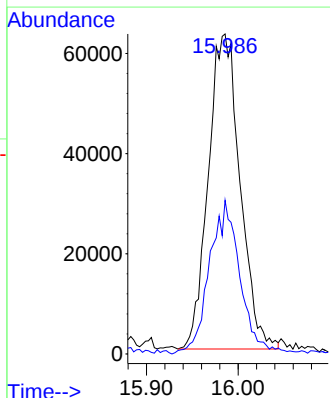
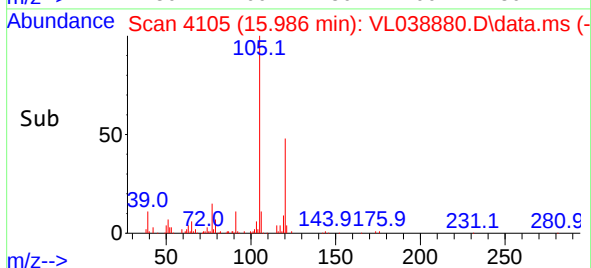
Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022

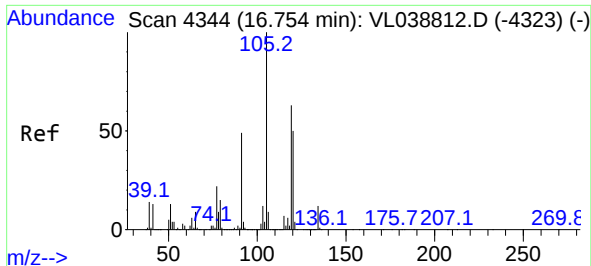


#73
1,3,5-Trimethylbenzene
Concen: 0.400 ppbv
RT: 15.986 min Scan# 4105
Delta R.T. -0.003 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38



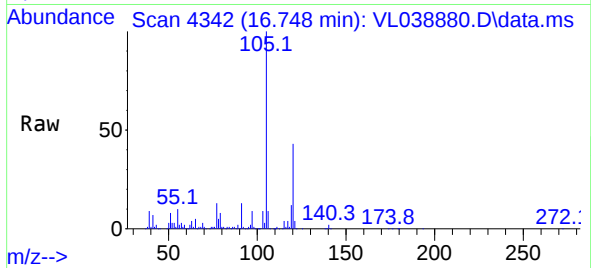
Tgt Ion:105 Resp: 151510
Ion Ratio Lower Upper
105 100
120 47.7 38.7 58.1





#74
1,2,4-Trimethylbenzene
Concen: 1.241 ppbv
RT: 16.748 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38

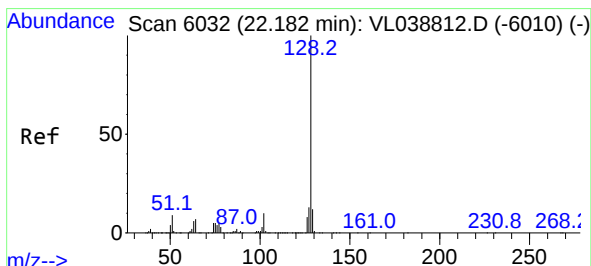
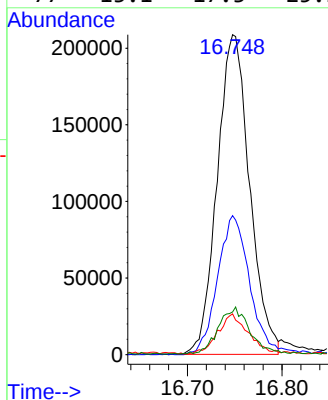
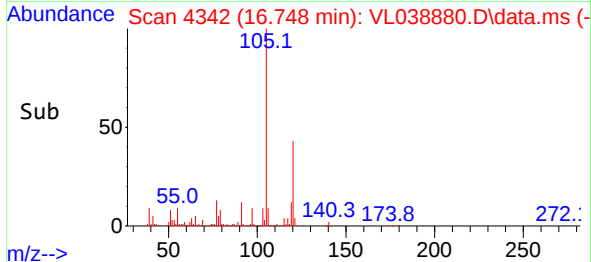
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL



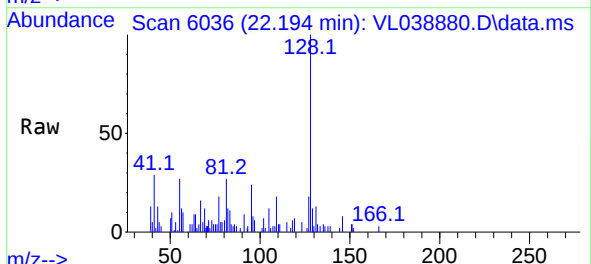
Tgt Ion:105 Resp: 49682
Ion Ratio Lower Upper
105 100
120 43.5 39.8 59.8
91 12.5 39.4 59.0
77 13.1 17.3 25.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/13/2022
Supervised By :Mahesh Dadoda 04/14/2022



#79
Naphthalene
Concen: 0.101 ppbv m
RT: 22.194 min Scan# 6036
Delta R.T. 0.013 min
Lab File: VL038880.D
Acq: 11 Apr 2022 21:38



Tgt Ion:128 Resp: 30350
Ion Ratio Lower Upper
128 100
127 18.5 10.6 15.8
129 11.5 9.4 14.0

