

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051722\
 Data File : VL039077.D
 Acq On : 17 May 2022 20:19
 Operator : SY/AP
 Sample : N2854-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1161-8.01-SG-4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/18/2022
 Supervised By :Mahesh Dadoda 05/20/2022

Quant Time: May 18 01:53:02 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 05 10:12:15 2022

QLast Update : Thu May 05 10:12:15 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.677	49	861898	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	7.182	114	1990030	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.092	117	1689163	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.416	95	1401435	10.476	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.063	85	35253	0.261	ppbv	99
3) Chlorodifluoromethane	2.989	51	101087m	0.945	ppbv	
4) Chloromethane	3.150	50	28578	0.534	ppbv	89
9) Propene	3.037	41	43251m	0.926	ppbv	
10) Heptane	8.131	43	41194	0.360	ppbv	92
11) Trichlorofluoromethane	3.963	101	30104	0.260	ppbv	92
13) Ethanol	3.607	45	749214	226.672	ppbv	86
15) Acetone	3.854	43	1783853	21.941	ppbv	95
19) Isopropyl Alcohol	3.976	45	485269	12.553	ppbv #	1
20) Methylene Chloride	4.356	84	954348	31.144	ppbv	97
26) Hexane	5.700	57	998194	11.545	ppbv #	39
30) Cyclohexane	7.134	84	17669m	0.244	ppbv	
34) 2-Butanone	5.256	43	159942	1.575	ppbv	95
35) Carbon Tetrachloride	7.024	117	9447m	0.072	ppbv	
36) Benzene	6.899	78	75206	0.442	ppbv	92
41) Tetrahydrofuran	6.063	42	48758	0.715	ppbv #	86
44) 2,2,4-Trimethylpentane	7.880	57	150180	0.503	ppbv	91
50) 4-Methyl-2-Pentanone	8.767	43	43114m	0.242	ppbv	
52) Tetrachloroethene	11.233	164	2690m	0.044	ppbv	
53) Toluene	9.812	91	796963	4.175	ppbv	99
58) Ethyl Benzene	12.716	91	174876	0.719	ppbv	97
59) m/p-Xylene	12.970	91	593389m	2.859	ppbv	
60) o-Xylene	13.693	91	197677	1.012	ppbv	100
72) 4-Ethyltoluene	15.838	105	67268m	0.302	ppbv	
73) 1,3,5-Trimethylbenzene	15.992	105	49667m	0.248	ppbv	
74) 1,2,4-Trimethylbenzene	16.760	105	175682	0.801	ppbv #	62

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

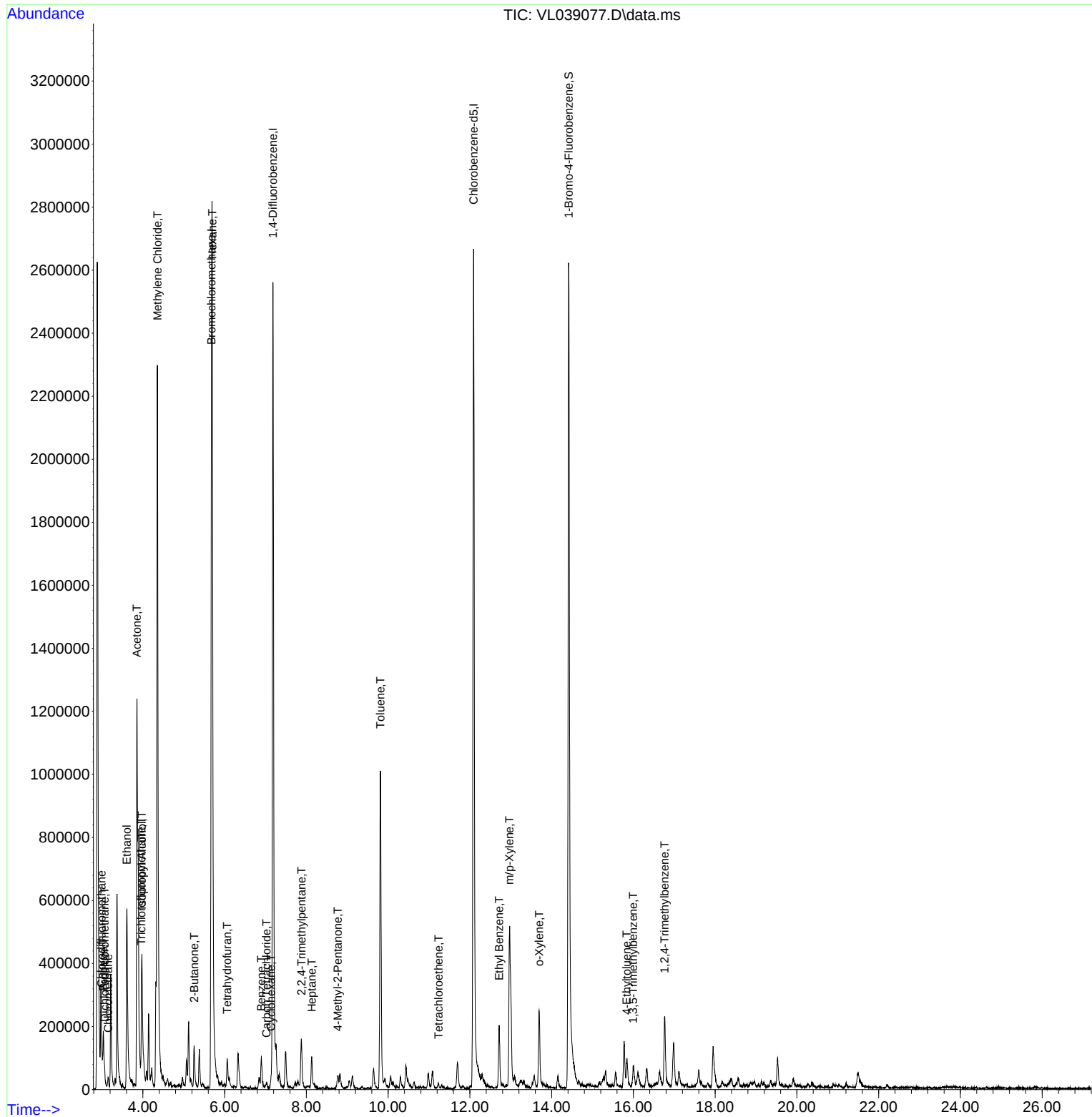
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051722\
Data File : VL039077.D
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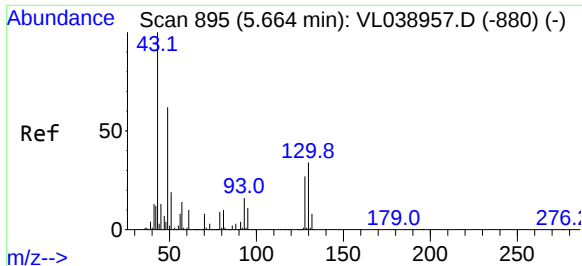
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-4

Quant Time: May 18 01:53:02 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May
QLast Update : Thu May 05 10:12:15 2022
Response via : Initial Calibration

Manual Integrations
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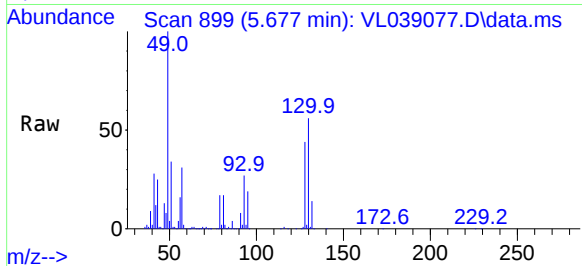
Reviewed By : Semsettin Yesilyurt 05/18/2022
Supervised By : Mahesh Dadoda 05/20/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.677 min Scan# 89
Delta R.T. 0.013 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

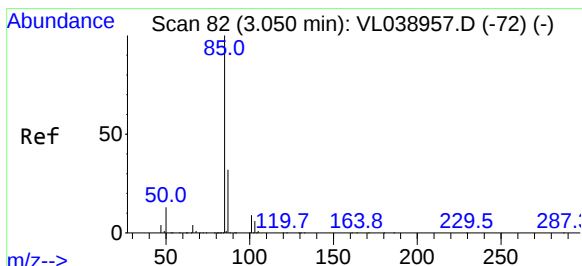
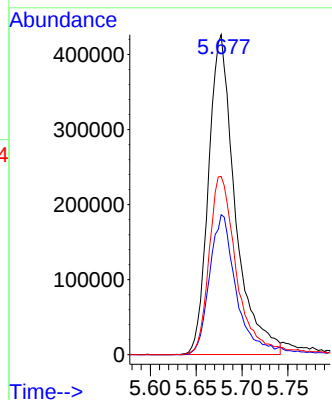
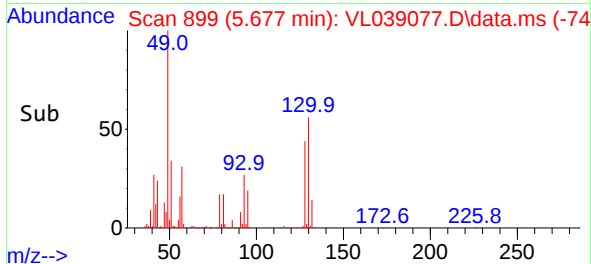
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-4



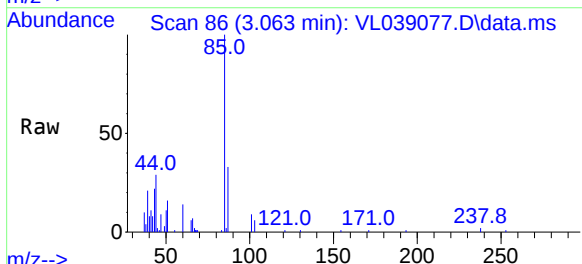
Tgt Ion: 49 Resp: 86189
Ion Ratio Lower Upper
49 100
128 45.3 23.3 69.8
130 59.4 29.8 89.3

Manual Integrations
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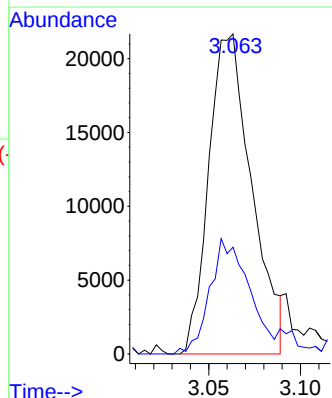
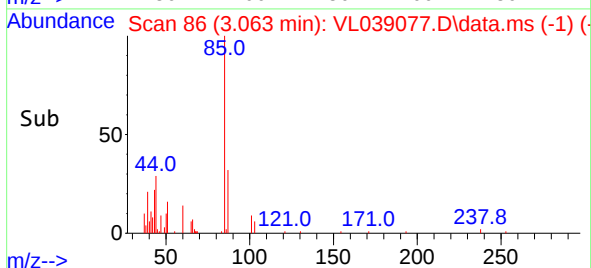
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022

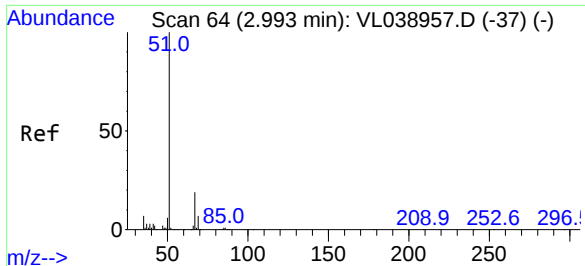


#2
Dichlorodifluoromethane
Concen: 0.261 ppbv
RT: 3.063 min Scan# 86
Delta R.T. 0.013 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19



Tgt Ion: 85 Resp: 35253
Ion Ratio Lower Upper
85 100
87 31.6 25.7 38.5





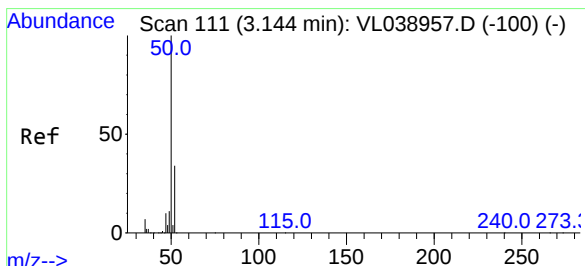
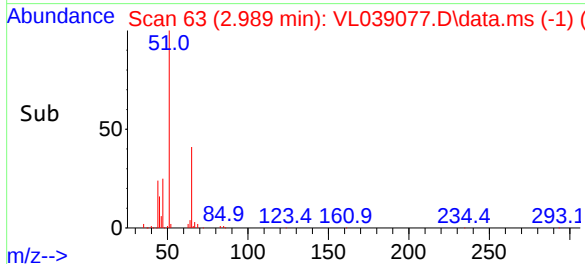
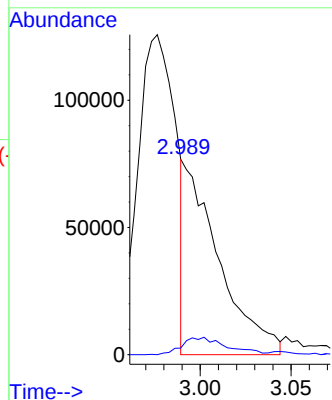
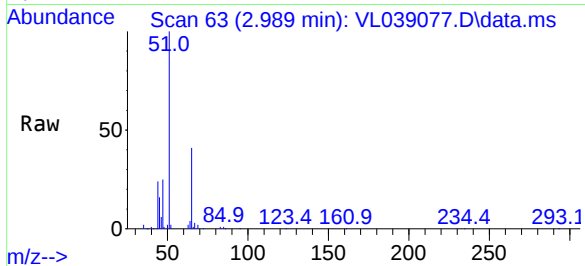
#3
Chlorodifluoromethane
Concen: 0.945 ppbv m
RT: 2.989 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

Instrument :
MSVOA_L
ClientSampleId :
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Tgt Ion: 51 Resp: 10108
Ion Ratio Lower Upper
51 100
67 12.8 15.8 23.8

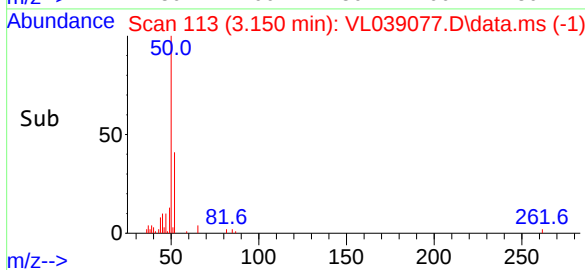
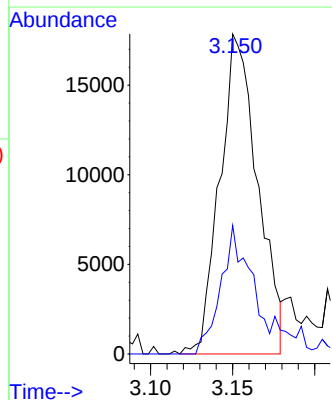
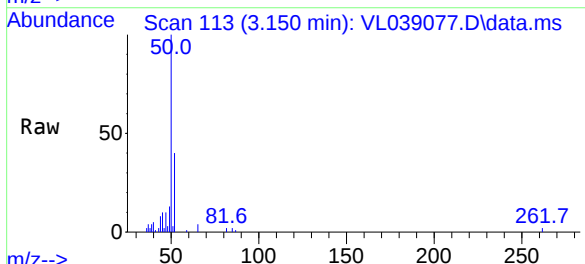
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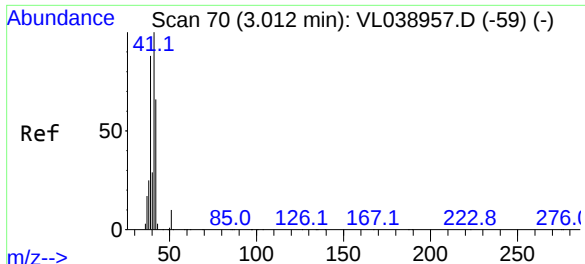
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#4
Chloromethane
Concen: 0.534 ppbv
RT: 3.150 min Scan# 113
Delta R.T. 0.006 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

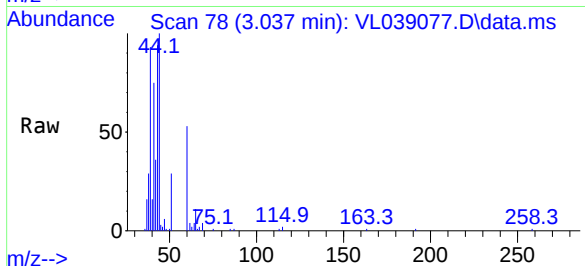
Tgt Ion: 50 Resp: 28578
Ion Ratio Lower Upper
50 100
52 40.1 27.3 40.9





#9
Propene
Concen: 0.926 ppbv m
RT: 3.037 min Scan# 70
Delta R.T. 0.026 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

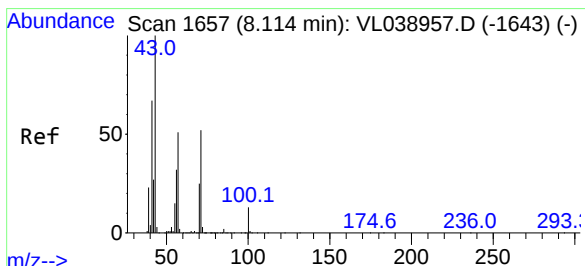
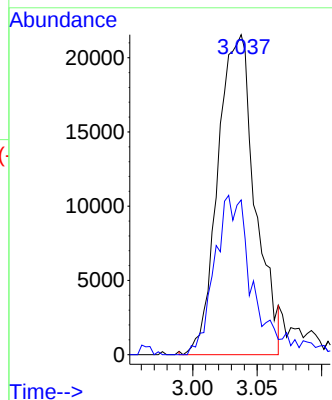
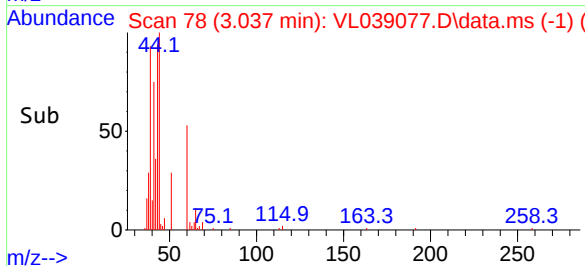
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-4



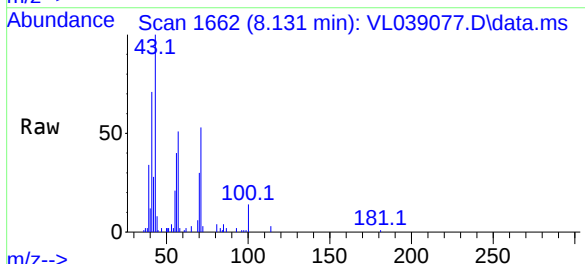
Tgt Ion: 41 Resp: 4325
Ion Ratio Lower Upper
41 100
42 200.7 58.3 87.5

Manual Integrations
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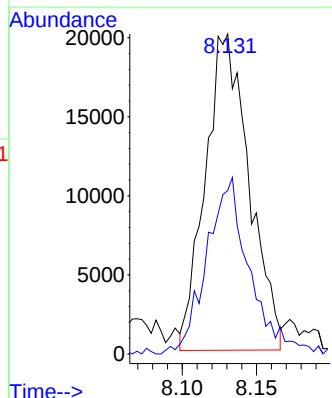
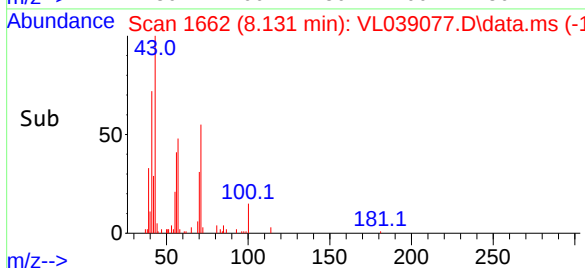
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022

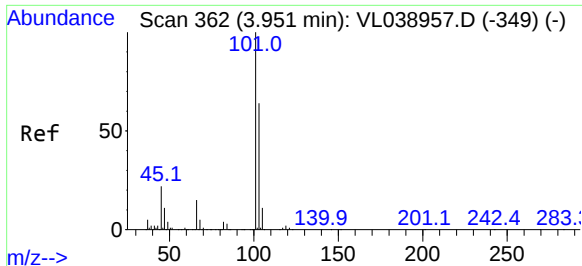


#10
Heptane
Concen: 0.360 ppbv
RT: 8.131 min Scan# 1662
Delta R.T. 0.016 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19



Tgt Ion: 43 Resp: 41194
Ion Ratio Lower Upper
43 100
57 56.3 40.5 60.7





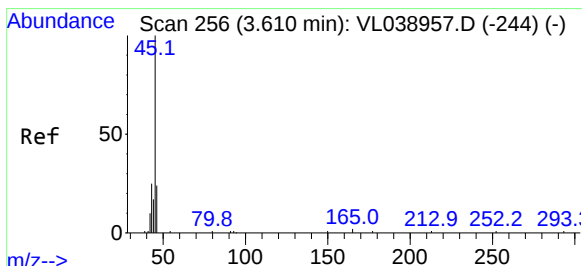
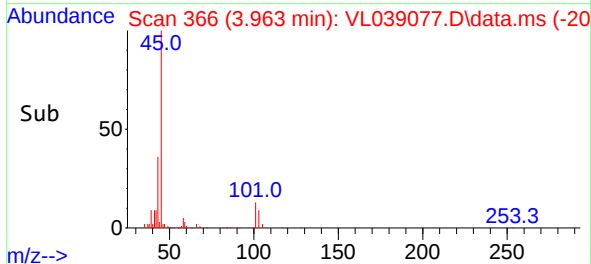
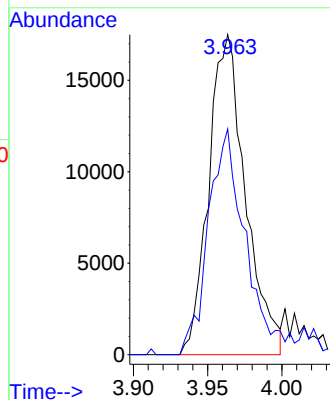
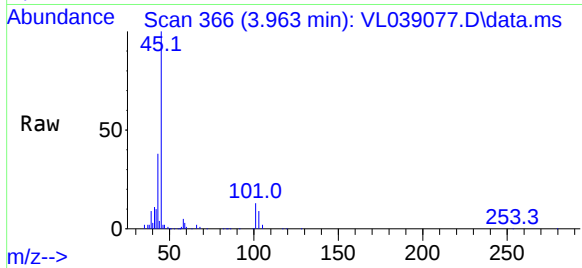
#11
Trichlorofluoromethane
Concen: 0.260 ppbv
RT: 3.963 min Scan# 301
Delta R.T. 0.013 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-4

Tgt Ion: 101 Resp: 30104
Ion Ratio Lower Upper
101 100
103 70.5 51.5 77.3

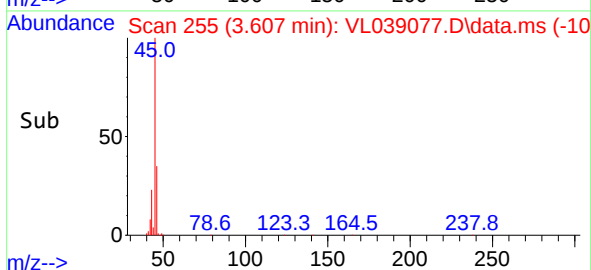
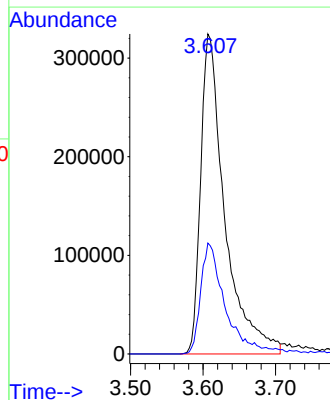
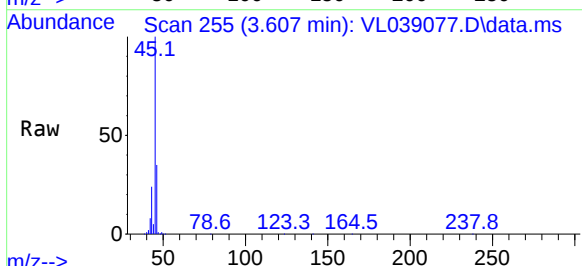
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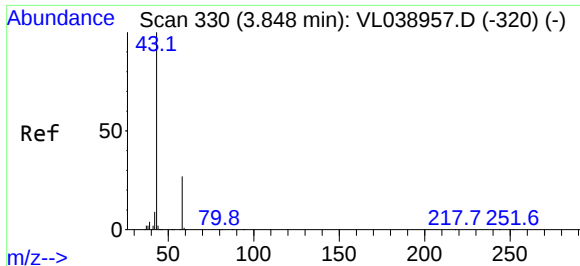
Reviewed By : Semsettin Yesilyurt 05/18/2022
Supervised By : Mahesh Dadoda 05/20/2022



#13
Ethanol
Concen: 226.672 ppbv
RT: 3.607 min Scan# 255
Delta R.T. -0.003 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

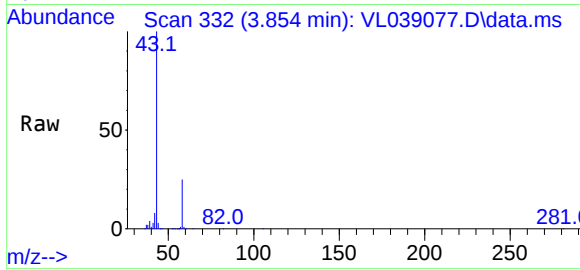
Tgt Ion: 45 Resp: 749214
Ion Ratio Lower Upper
45 100
46 36.0 18.0 72.2





#15
Acetone
Concen: 21.941 ppbv
RT: 3.854 min Scan# 311
Delta R.T. 0.006 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

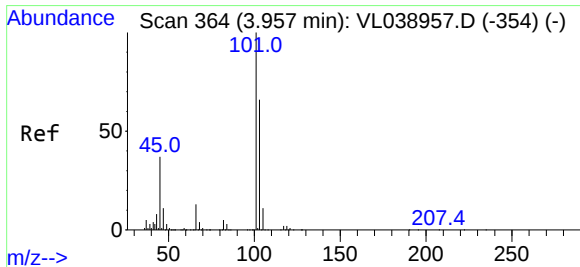
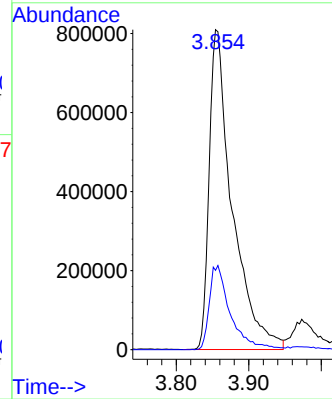
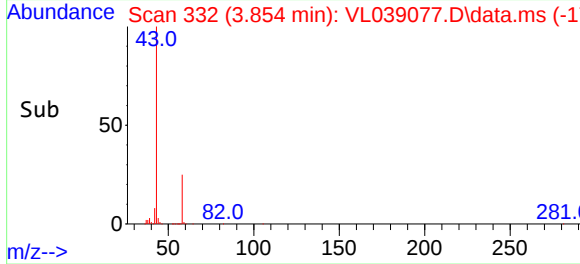
Instrument :
MSVOA_L
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1161-8.01-SG-4



Tgt Ion: 43 Resp: 178385
Ion Ratio Lower Upper
43 100
58 24.0 21.3 31.9

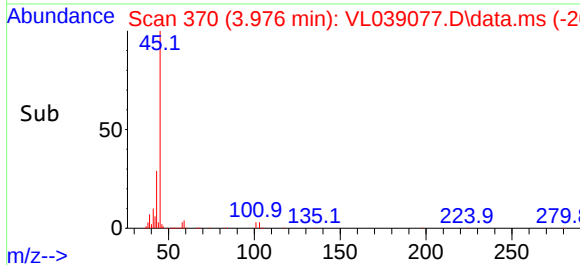
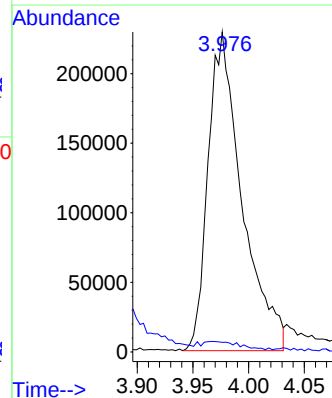
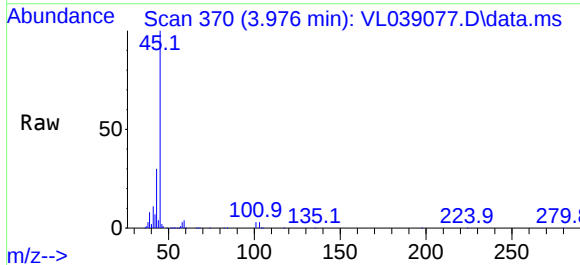
Manual Integrations
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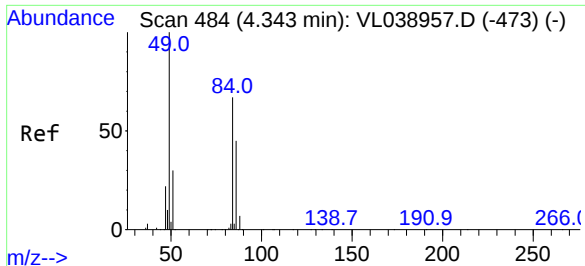
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#19
Isopropyl Alcohol
Concen: 12.553 ppbv
RT: 3.976 min Scan# 370
Delta R.T. 0.019 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

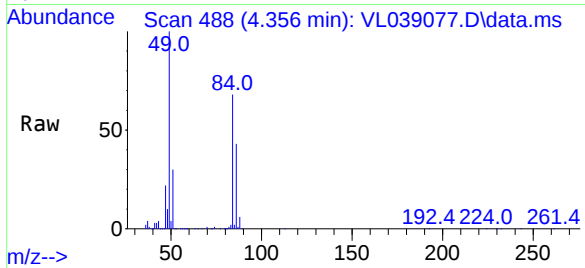
Tgt Ion: 45 Resp: 485269
Ion Ratio Lower Upper
45 100
58 89.1 1.4 2.2#





#20
Methylene Chloride
Concen: 31.144 ppbv
RT: 4.356 min Scan# 411
Delta R.T. 0.013 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

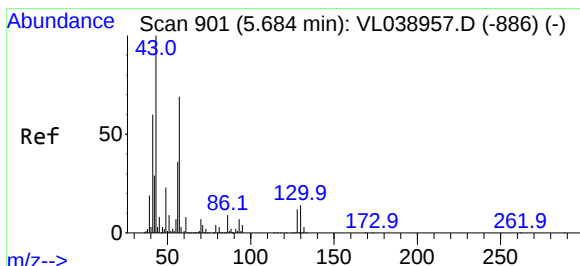
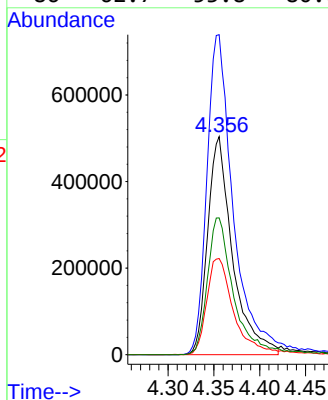
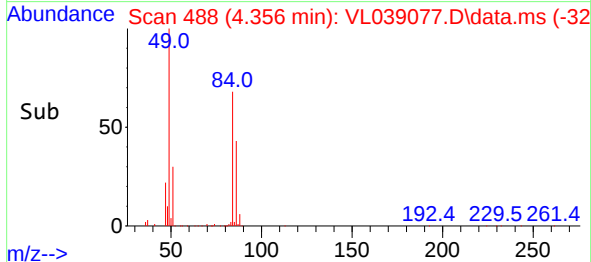
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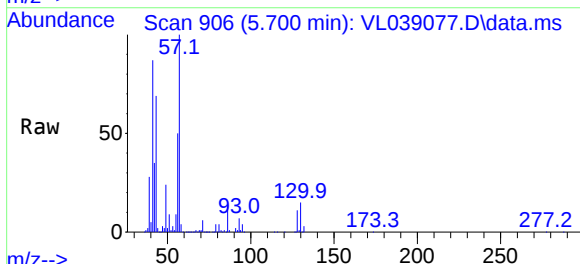
Tgt Ion: 84 Resp: 954348
Ion Ratio Lower Upper
84 100
49 146.7 119.9 179.9
51 44.0 35.7 53.5
86 62.7 53.8 80.6

Manual Integrations
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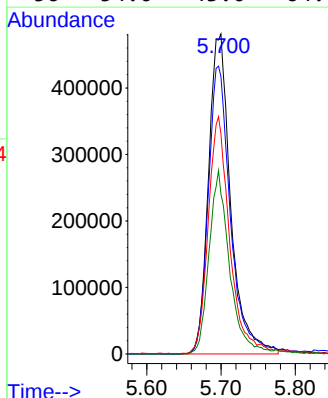
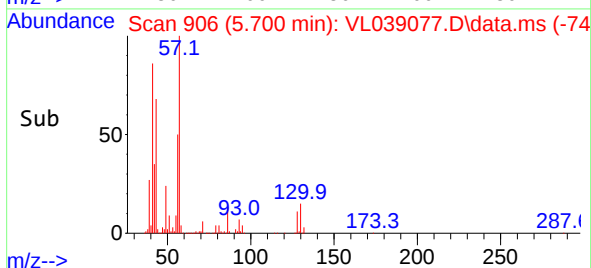
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022

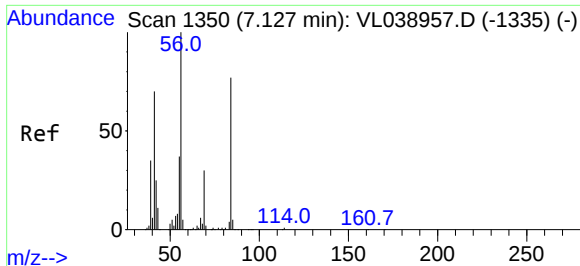


#26
Hexane
Concen: 11.545 ppbv
RT: 5.700 min Scan# 906
Delta R.T. 0.016 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19



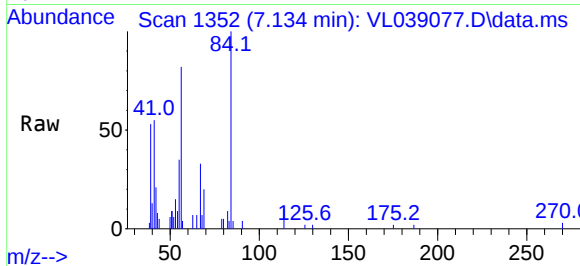
Tgt Ion: 57 Resp: 998194
Ion Ratio Lower Upper
57 100
41 91.5 75.2 112.8
43 72.7 190.8 286.2#
56 54.0 43.0 64.6





#30
Cyclohexane
Concen: 0.244 ppbv m
RT: 7.134 min Scan# 1161
Delta R.T. 0.006 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

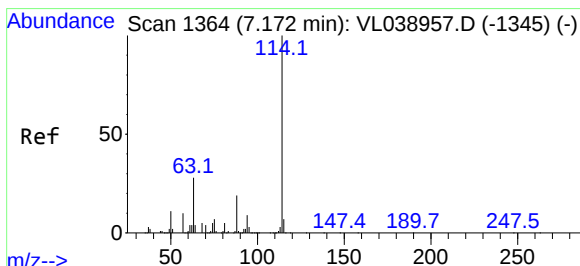
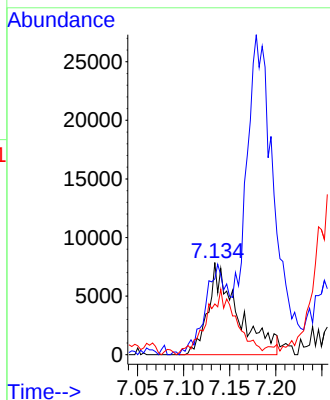
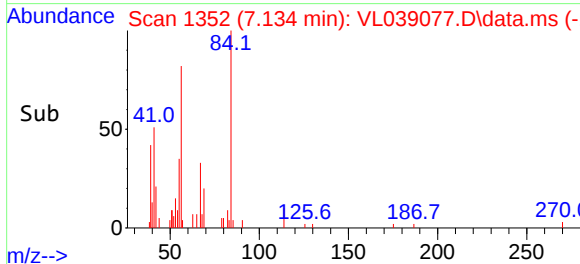
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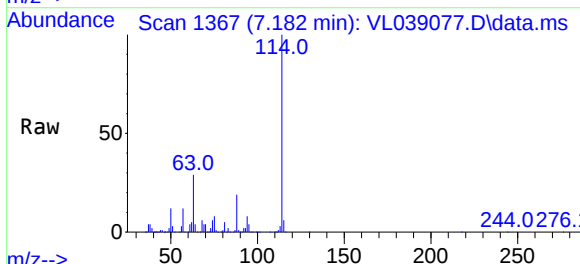
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Ion Ratio Lower Upper
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41 66.5 72.0 108.0

Manual Integrations
APPROVED

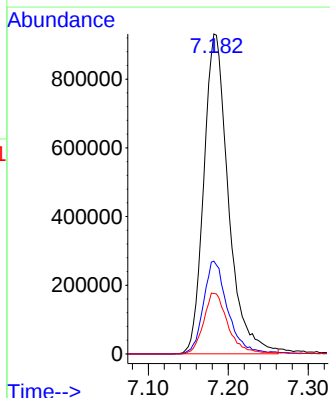
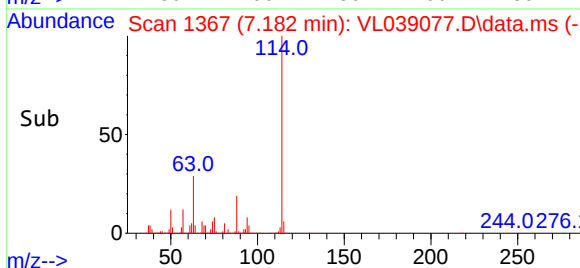
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022

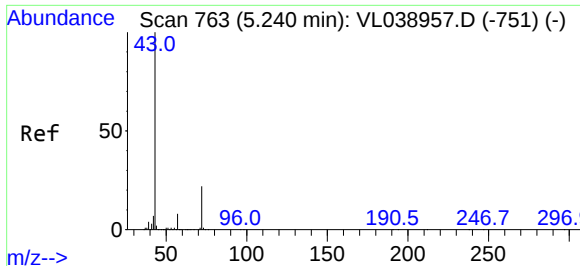


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.182 min Scan# 1367
Delta R.T. 0.010 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19



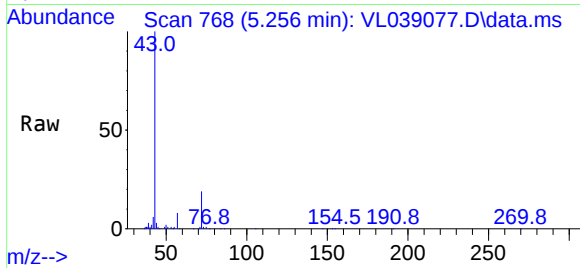
Tgt Ion:114 Resp: 1990030
Ion Ratio Lower Upper
114 100
63 29.2 22.6 33.8
88 19.1 15.4 23.0





#34
2-Butanone
Concen: 1.575 ppbv
RT: 5.256 min Scan# 70
Delta R.T. 0.016 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

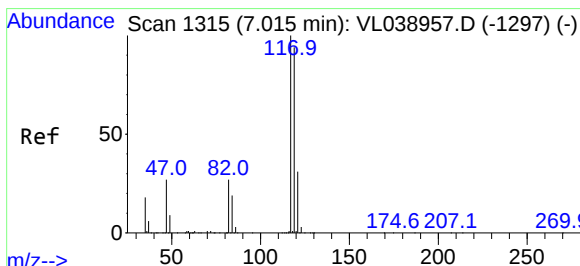
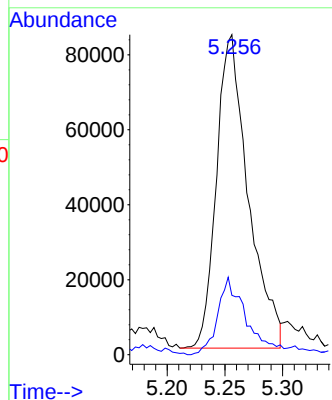
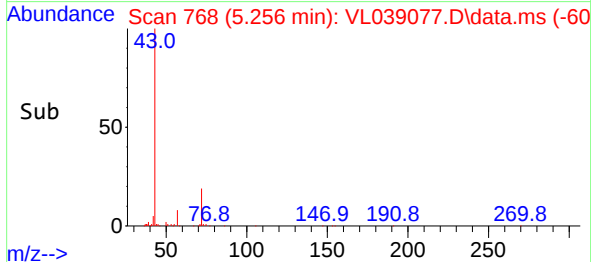
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-4



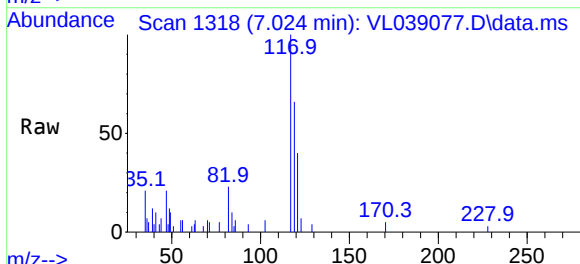
Tgt Ion: 43 Resp: 15994
Ion Ratio Lower Upper
43 100
72 24.4 17.8 26.6

Manual Integrations
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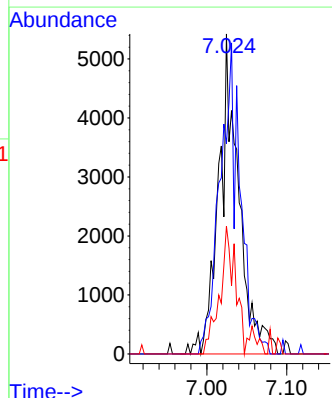
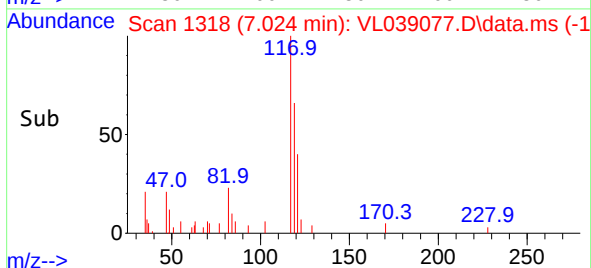
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022

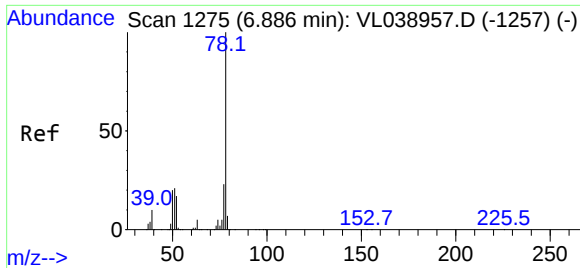


#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 7.024 min Scan# 1318
Delta R.T. 0.010 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19



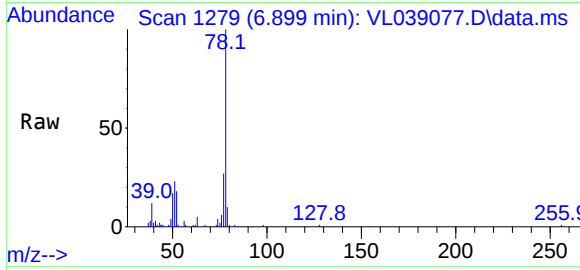
Tgt Ion:117 Resp: 9447
Ion Ratio Lower Upper
117 100
119 65.7 75.2 112.8#
121 40.0 24.6 37.0#





#36
Benzene
Concen: 0.442 ppbv
RT: 6.899 min Scan# 1161
Delta R.T. 0.013 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-4

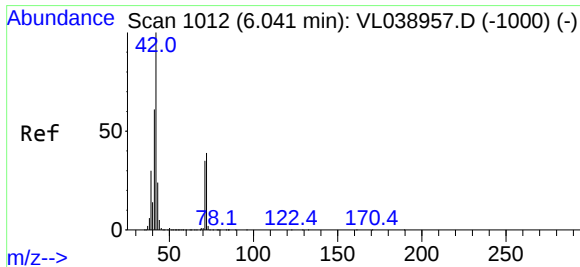
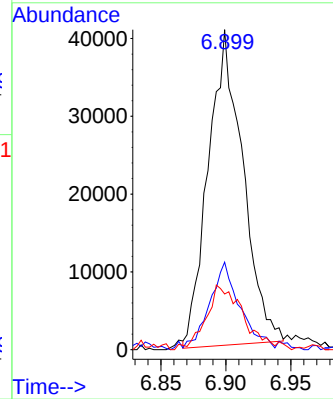
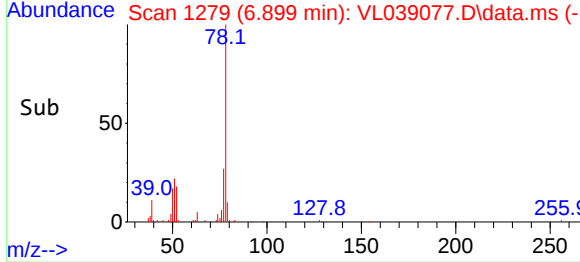


Tgt Ion: 78 Resp: 75200

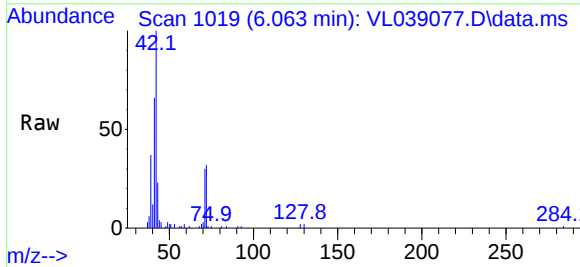
Ion	Ratio	Lower	Upper
78	100		
77	27.6	18.6	28.0
50	16.5	15.6	23.4

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022

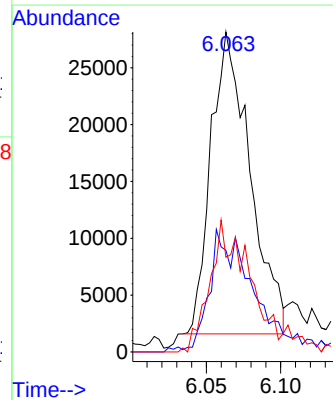
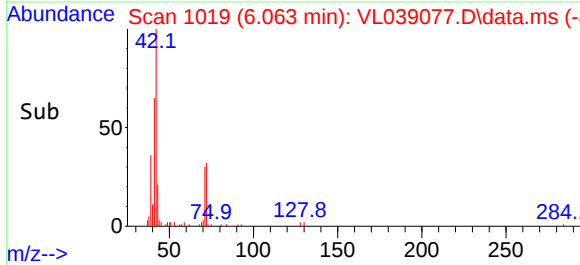


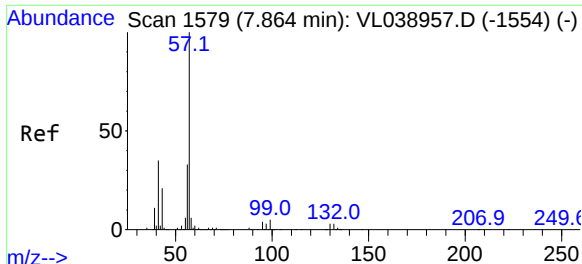
#41
Tetrahydrofuran
Concen: 0.715 ppbv
RT: 6.063 min Scan# 1019
Delta R.T. 0.022 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19



Tgt Ion: 42 Resp: 48758

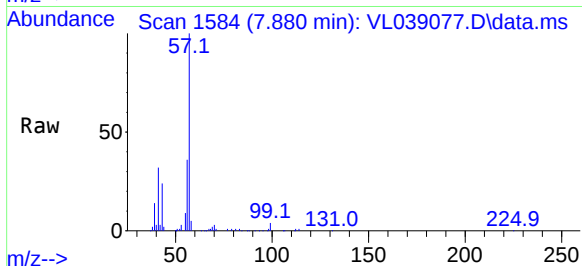
Ion	Ratio	Lower	Upper
42	100		
72	48.0	31.8	47.6#
71	47.1	30.6	45.8#





#44
2,2,4-Trimethylpentane
Concen: 0.503 ppbv
RT: 7.880 min Scan# 1161
Delta R.T. 0.016 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

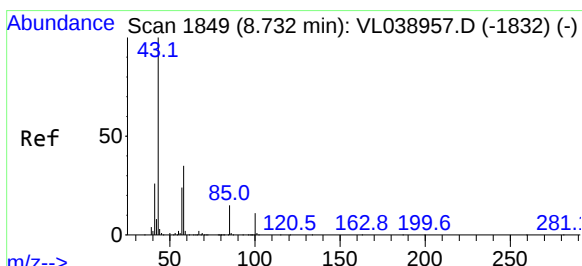
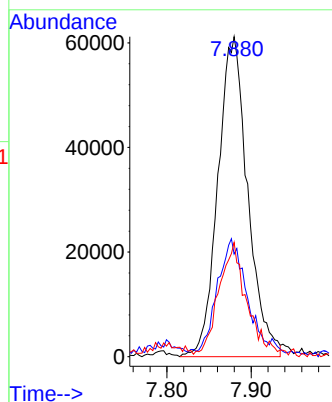
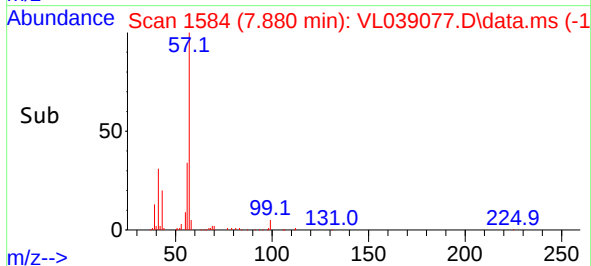
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-4



Tgt Ion: 57 Resp: 150180
Ion Ratio Lower Upper
57 100
41 38.7 26.3 39.5
56 35.5 24.6 37.0

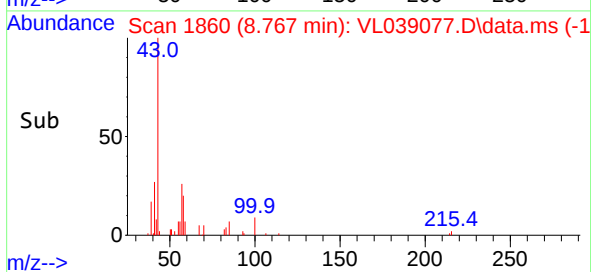
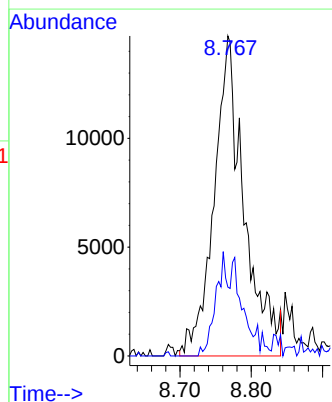
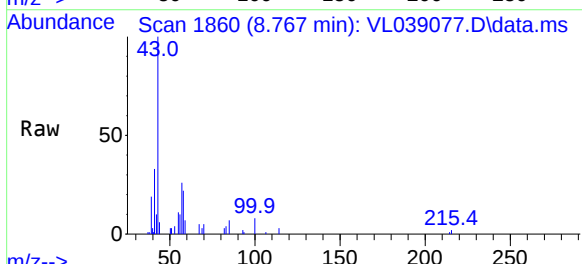
Manual Integrations
APPROVED

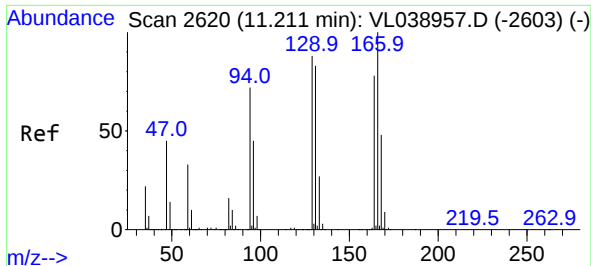
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#50
4-Methyl-2-Pentanone
Concen: 0.242 ppbv m
RT: 8.767 min Scan# 1860
Delta R.T. 0.035 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

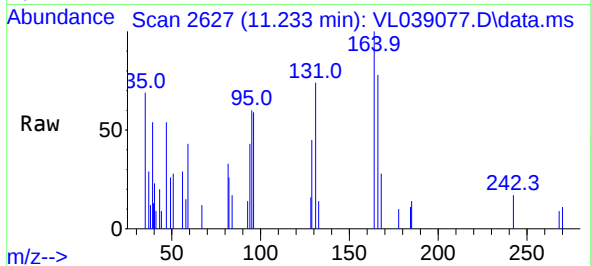
Tgt Ion: 43 Resp: 43114
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6#





#52
Tetrachloroethene
Concen: 0.044 ppbv m
RT: 11.233 min Scan# 2627
Delta R.T. 0.022 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

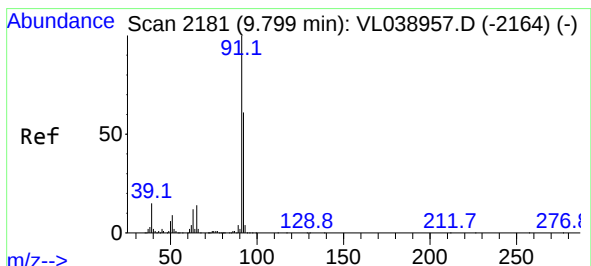
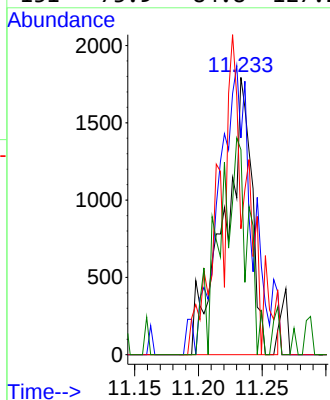
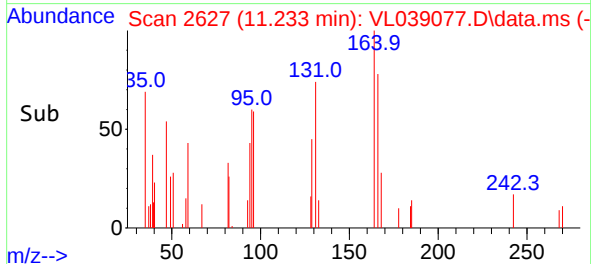
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-4



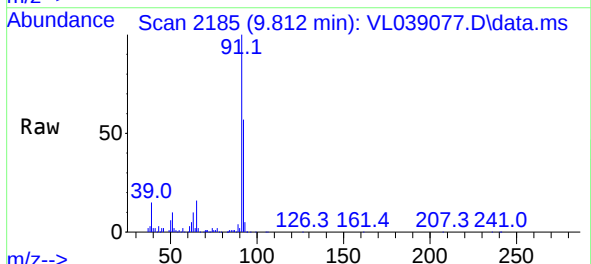
Tgt Ion:164 Resp: 2690
Ion Ratio Lower Upper
164 100
166 78.2 102.5 153.7
129 45.4 90.1 135.1
131 73.9 84.8 127.2

Manual Integrations
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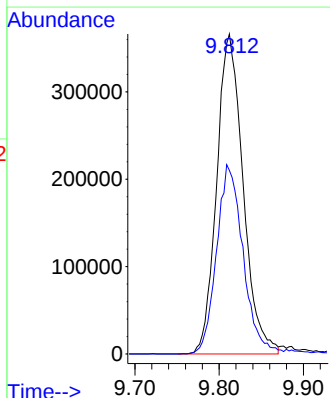
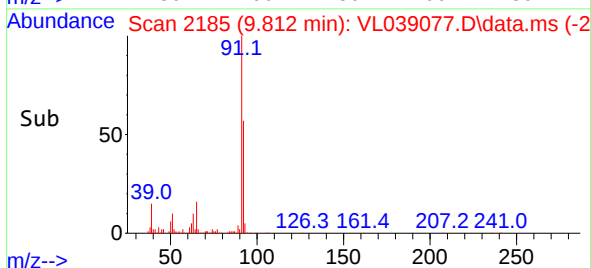
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022

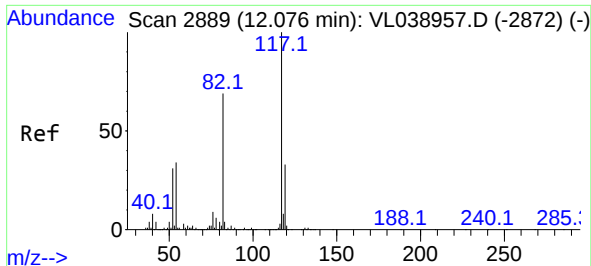


#53
Toluene
Concen: 4.175 ppbv
RT: 9.812 min Scan# 2185
Delta R.T. 0.013 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19



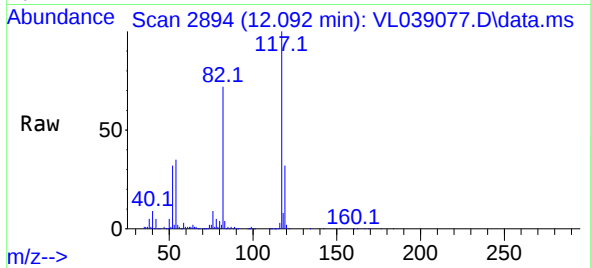
Tgt Ion: 91 Resp: 796963
Ion Ratio Lower Upper
91 100
92 60.6 48.2 72.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.092 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

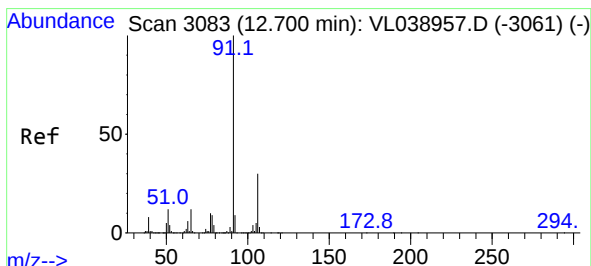
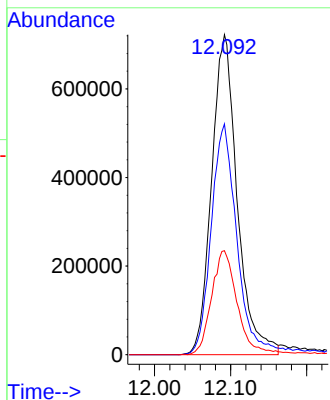
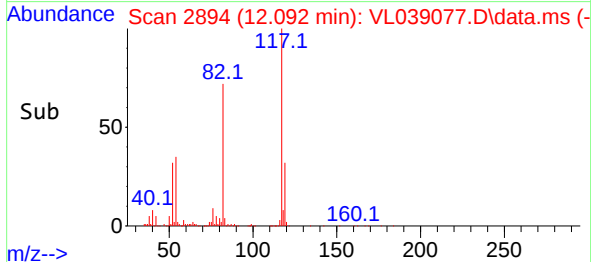
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-4



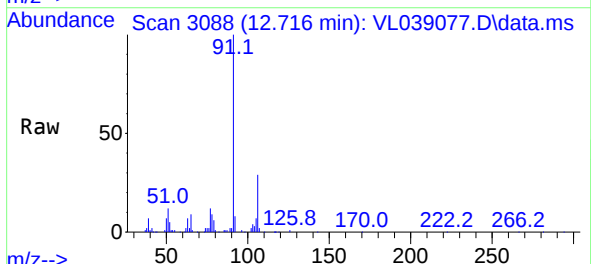
Tgt Ion: 117 Resp: 168916
Ion Ratio Lower Upper
117 100
82 74.7 57.0 85.6
119 33.3 27.2 40.8

Manual Integrations
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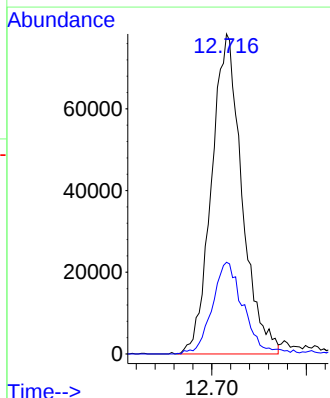
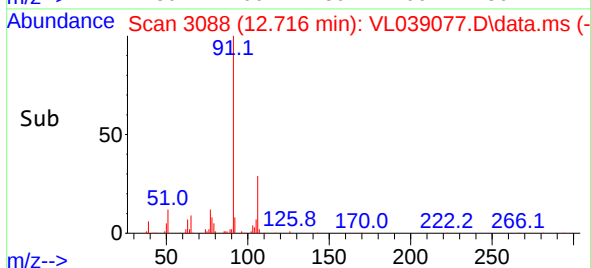
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022

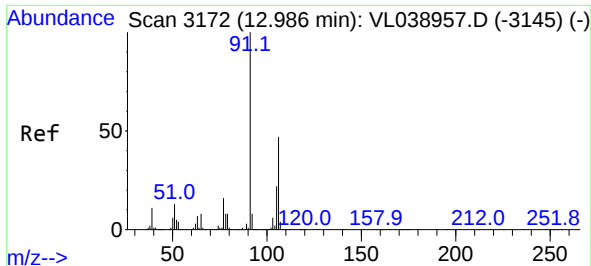


#58
Ethyl Benzene
Concen: 0.719 ppbv
RT: 12.716 min Scan# 3088
Delta R.T. 0.016 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19



Tgt Ion: 91 Resp: 174876
Ion Ratio Lower Upper
91 100
106 28.4 24.2 36.4





#59

m/p-Xylene

Concen: 2.859 ppbv m

RT: 12.970 min Scan# 3172

Delta R.T. -0.016 min

Lab File: VL039077.D

Acq: 17 May 2022 20:19

Instrument :

MSVOA_L

ClientSampleId :

1161-8.01-SG-4

Tgt Ion: 91 Resp: 593389

Ion Ratio Lower Upper

91 100

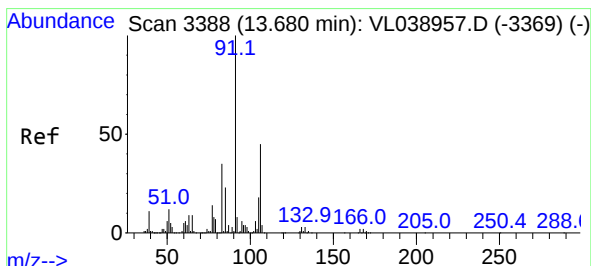
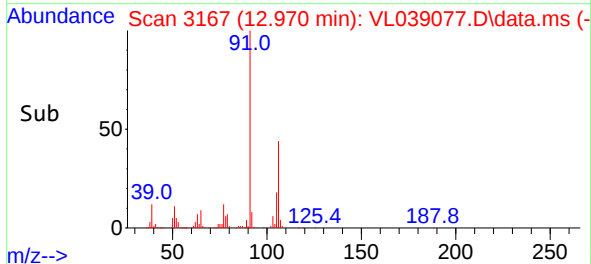
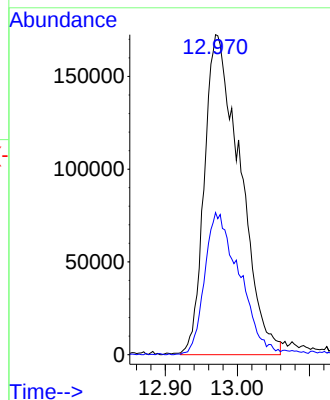
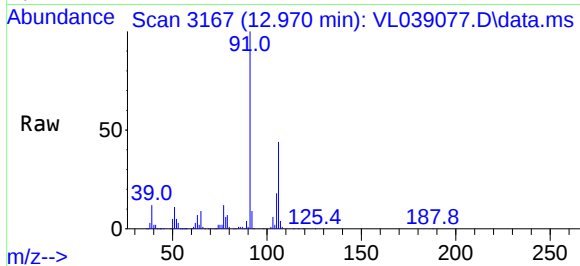
106 0.0 34.6 52.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/18/2022

Supervised By :Mahesh Dadoda 05/20/2022



#60

o-Xylene

Concen: 1.012 ppbv

RT: 13.693 min Scan# 3392

Delta R.T. 0.013 min

Lab File: VL039077.D

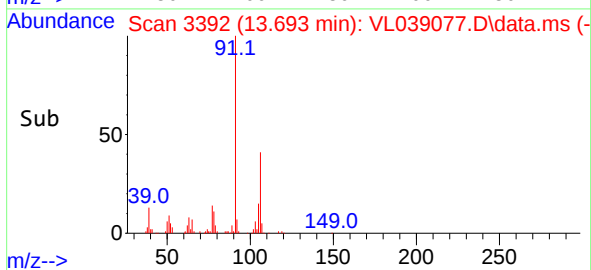
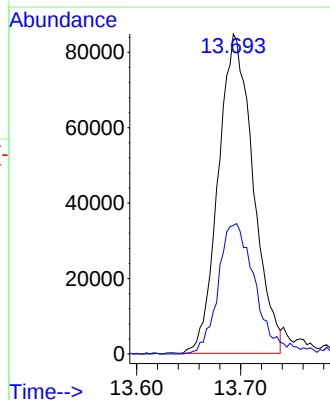
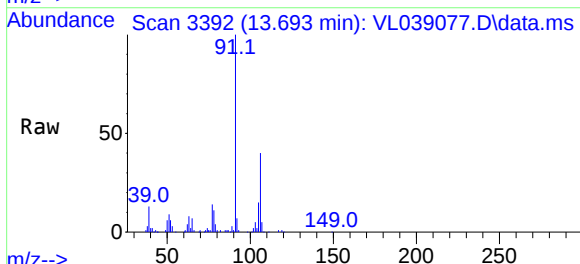
Acq: 17 May 2022 20:19

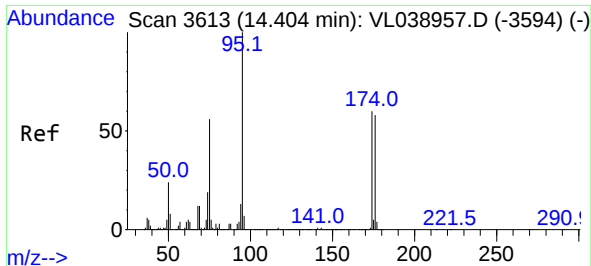
Tgt Ion: 91 Resp: 197677

Ion Ratio Lower Upper

91 100

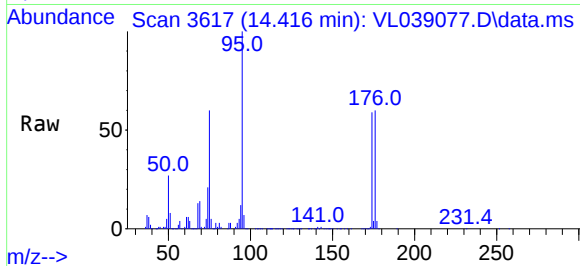
106 44.3 22.2 66.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.476 ppbv
RT: 14.416 min Scan# 30
Delta R.T. 0.013 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

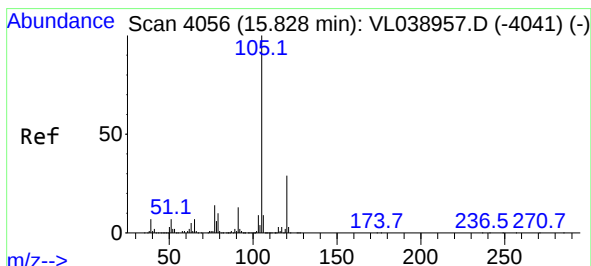
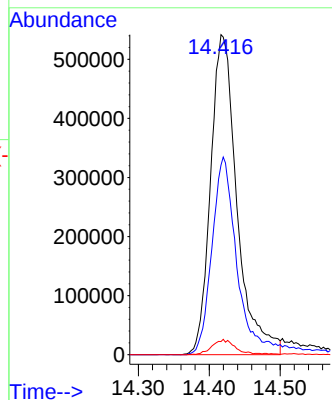
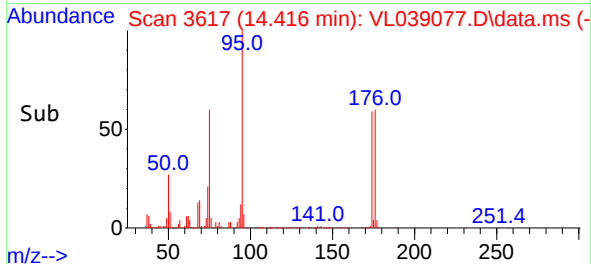
Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-4



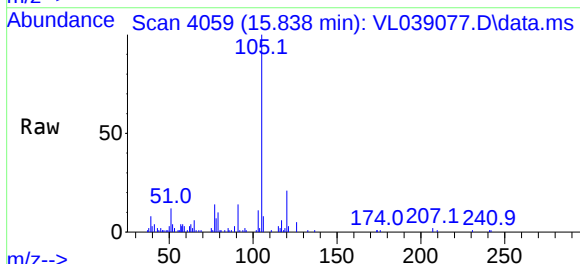
Tgt Ion: 95 Resp: 140143
Ion Ratio Lower Upper
95 100
174 62.3 50.8 76.2
175 4.3 3.8 5.6

Manual Integrations
APPROVED

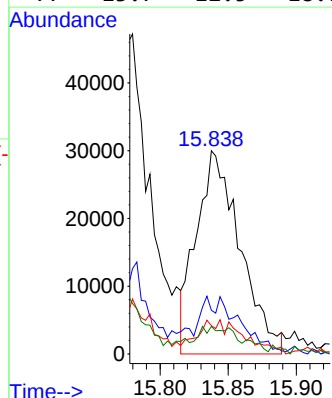
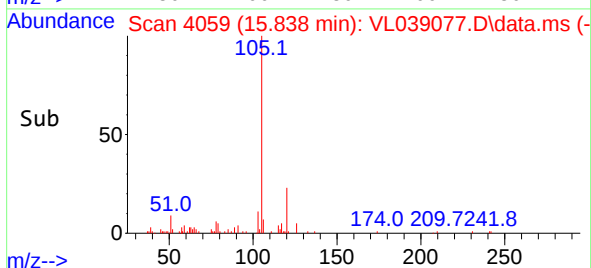
Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022

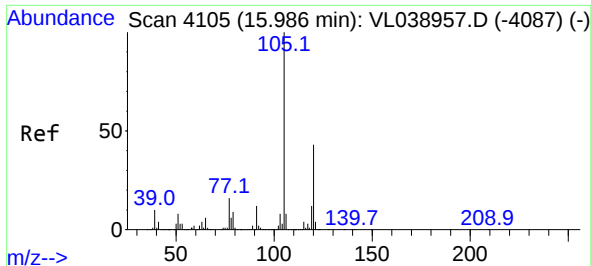


#72
4-Ethyltoluene
Concen: 0.302 ppbv m
RT: 15.838 min Scan# 4059
Delta R.T. 0.010 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19



Tgt Ion:105 Resp: 67268
Ion Ratio Lower Upper
105 100
120 29.7 23.4 35.0
91 16.2 10.6 16.0#
77 13.7 12.5 18.7





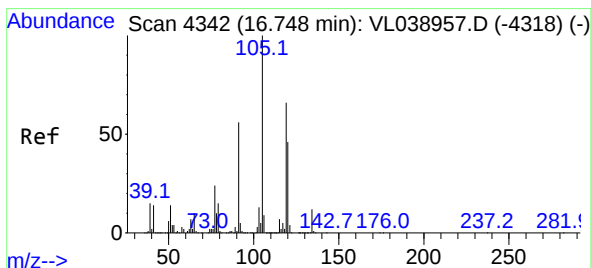
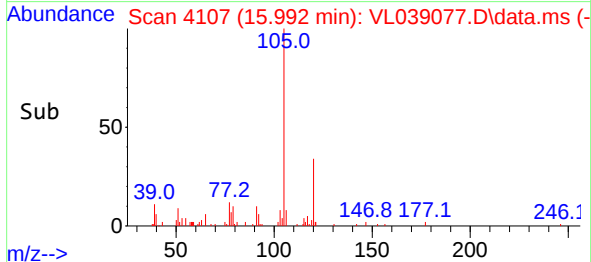
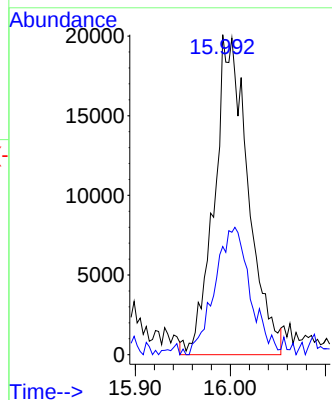
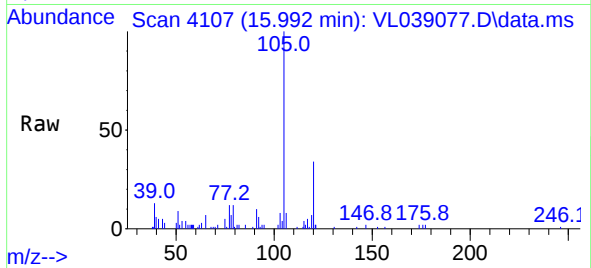
#73
1,3,5-Trimethylbenzene
Concen: 0.248 ppbv m
RT: 15.992 min Scan# 4105
Delta R.T. 0.006 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-SG-4

Tgt Ion:105 Resp: 4966
Ion Ratio Lower Upper
105 100
120 33.8 34.4 51.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/18/2022
Supervised By :Mahesh Dadoda 05/20/2022



#74
1,2,4-Trimethylbenzene
Concen: 0.801 ppbv
RT: 16.760 min Scan# 4346
Delta R.T. 0.013 min
Lab File: VL039077.D
Acq: 17 May 2022 20:19

Tgt Ion:105 Resp: 175682
Ion Ratio Lower Upper
105 100
120 35.7 36.9 55.3#
91 11.5 45.0 67.4#
77 12.1 19.2 28.8#

