

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061422\
 Data File : VL039288.D
 Acq On : 14 Jun 2022 20:06
 Operator : SY/AP
 Sample : N3306-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/16/2022
 Supervised By : Mahesh Dadoda 06/16/2022

Quant Time: Jun 15 03:20:36 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 15 03:20:36 2022

QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.674	49	1343970	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.182	114	3775068	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.089	117	3459567	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.416	95	2727895	9.538	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.057	85	23842	0.101	ppbv #	88
4) Chloromethane	3.153	50	17745	0.202	ppbv #	87
9) Propene	3.025	41	178900	2.399	ppbv	88
10) Heptane	8.127	43	246486	1.417	ppbv #	26
12) 1,1,2-Trichlorotrifluo...	4.494	101	23366m	0.165	ppbv	
13) Ethanol	3.610	45	477479	117.420	ppbv #	100
15) Acetone	3.851	43	3129707	22.355	ppbv	99
17) tert-Butyl alcohol	4.301	59	92055	0.848	ppbv	96
19) Isopropyl Alcohol	3.973	45	479855	7.308	ppbv #	1
20) Methylene Chloride	4.353	84	316112	5.358	ppbv	90
26) Hexane	5.693	57	397710	2.868	ppbv #	39
27) Carbon Disulfide	4.558	76	87492	0.609	ppbv #	91
29) Chloroform	5.761	83	35729m	0.153	ppbv	
34) 2-Butanone	5.246	43	1378073	6.719	ppbv	100
36) Benzene	6.899	78	246842	0.805	ppbv	98
41) Tetrahydrofuran	6.053	42	417756	3.387	ppbv	98
44) 2,2,4-Trimethylpentane	7.877	57	9042576	16.866	ppbv	95
50) 4-Methyl-2-Pentanone	8.748	43	339356m	1.105	ppbv	
52) Tetrachloroethene	11.227	164	124323	1.039	ppbv	98
53) Toluene	9.812	91	331991	0.941	ppbv	99
58) Ethyl Benzene	12.712	91	146308	0.307	ppbv	98
59) m/p-Xylene	12.970	91	715679m	1.705	ppbv	
60) o-Xylene	13.696	91	327201m	0.830	ppbv	
65) tert-Butylbenzene	16.760	119	69546m	0.130	ppbv	
72) 4-Ethyltoluene	15.838	105	186276	0.403	ppbv #	92
73) 1,3,5-Trimethylbenzene	15.998	105	193665m	0.465	ppbv	
74) 1,2,4-Trimethylbenzene	16.760	105	620143	1.333	ppbv #	65
79) Naphthalene	22.194	128	57633m	0.161	ppbv	

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

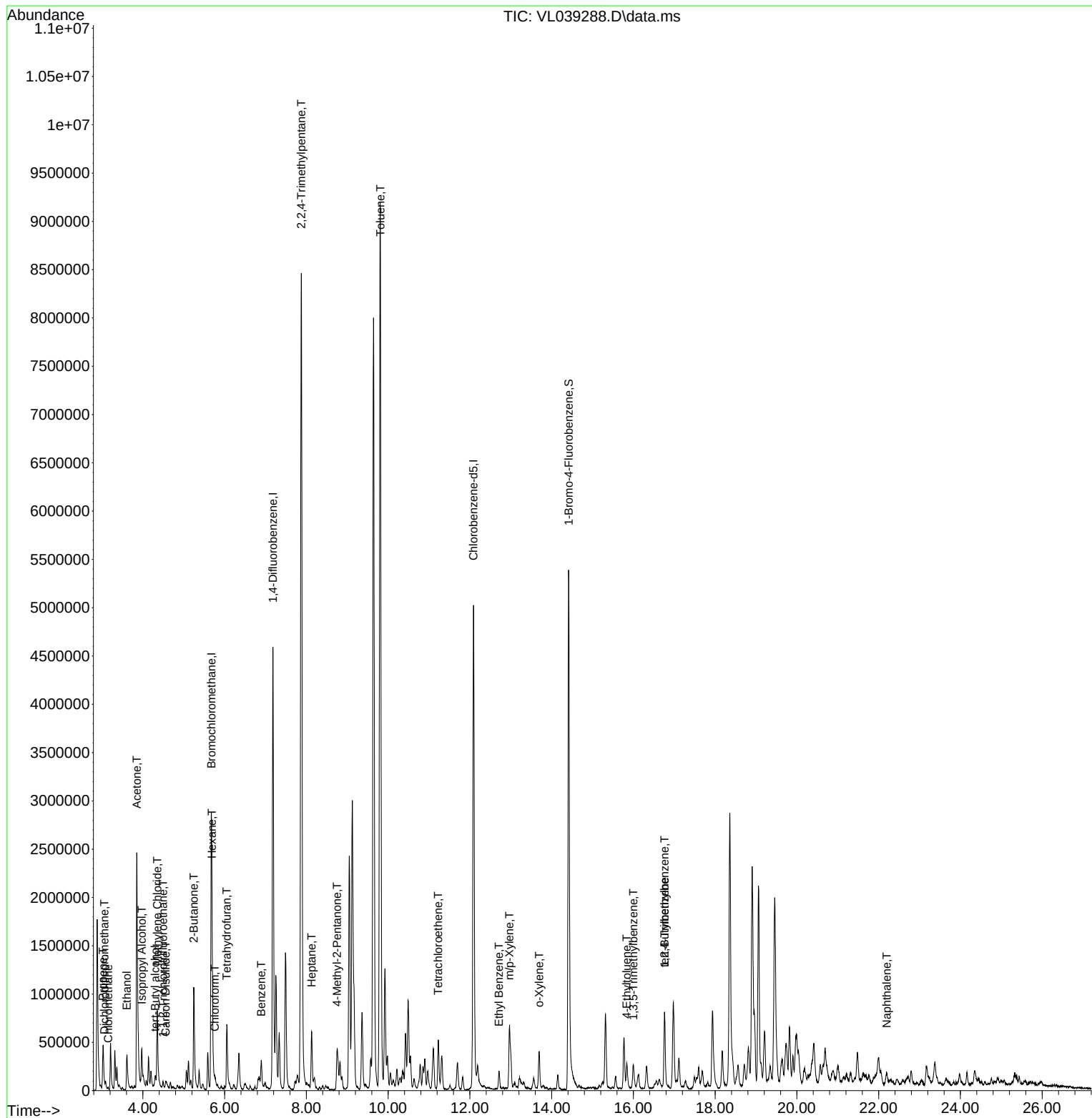
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061422\
Data File : VL039288.D
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Sample : N3306-04 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

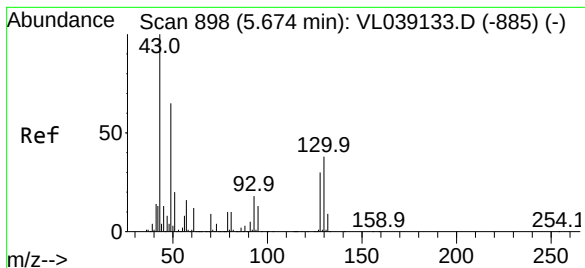
Instrument :
MSVOA_L
ClientSampleId :
SS-2

Quant Time: Jun 15 03:20:36 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun
QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration

Manual Integrations
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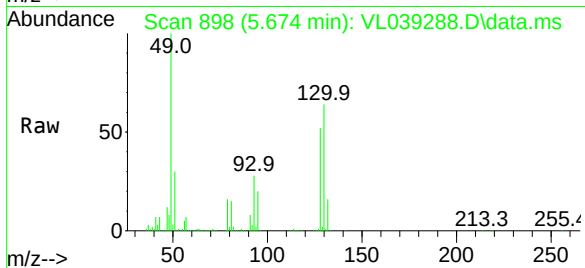
Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.674 min Scan# 898
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

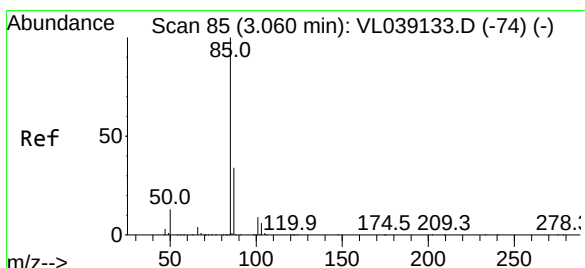
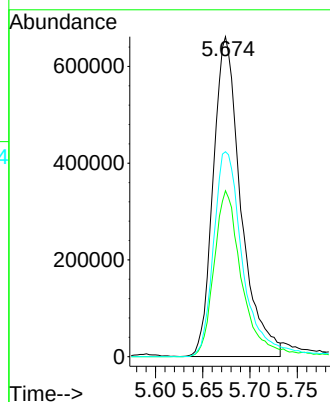
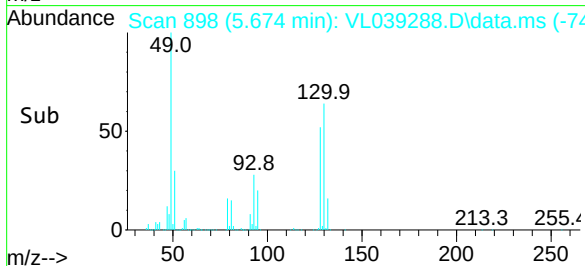
Instrument :
MSVOA_L
ClientSampleId :
SS-2



Tgt Ion: 49 Resp: 1343970
Ion Ratio Lower Upper
49 100
128 53.8 24.7 74.1
130 70.1 31.4 94.0

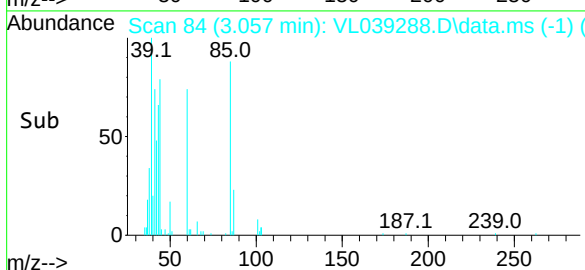
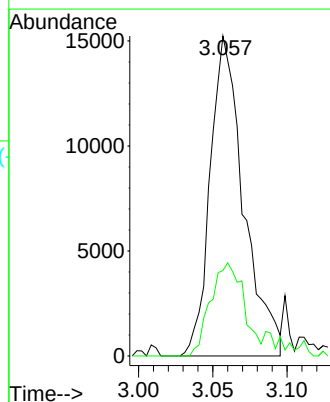
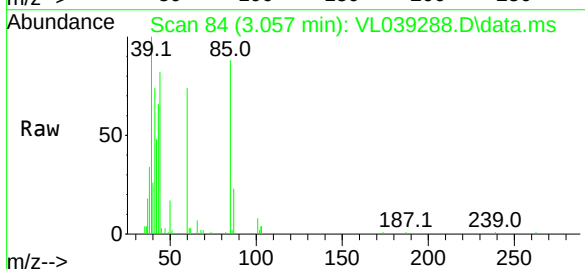
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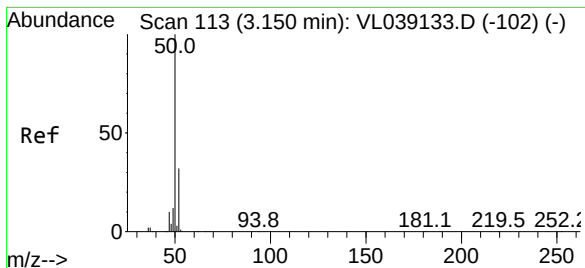
Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022



#2
Dichlorodifluoromethane
Concen: 0.101 ppbv
RT: 3.057 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

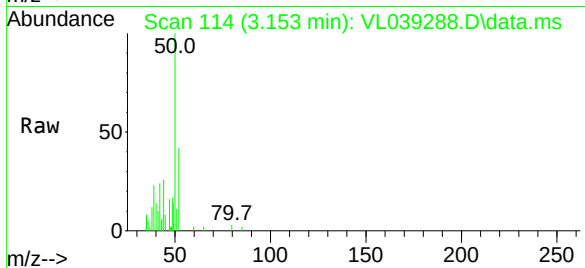
Tgt Ion: 85 Resp: 23842
Ion Ratio Lower Upper
85 100
87 26.7 26.9 40.3





#4
Chloromethane
Concen: 0.202 ppbv
RT: 3.153 min Scan# 113
Delta R.T. 0.003 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

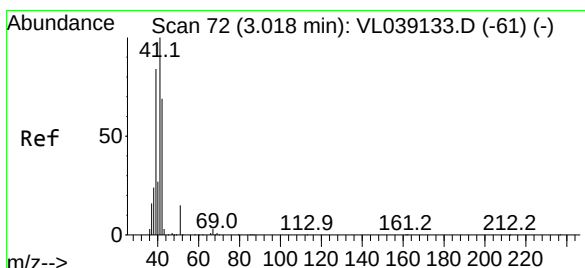
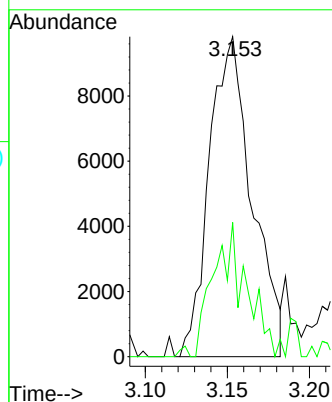
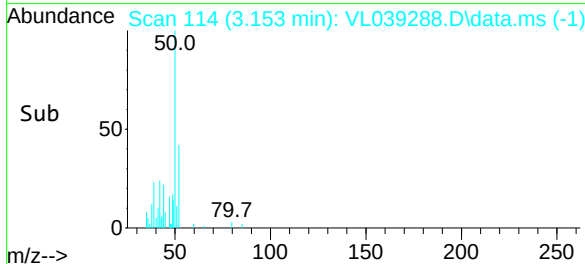
Instrument :
MSVOA_L
ClientSampleId :
SS-2



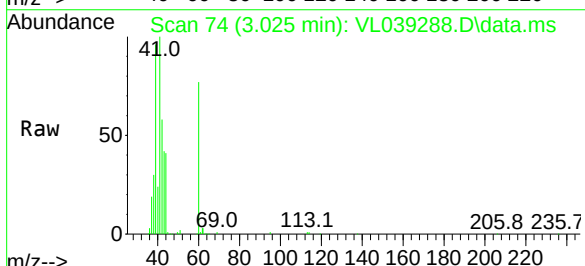
Tgt Ion: 50 Resp: 17749
Ion Ratio Lower Upper
50 100
52 40.0 25.9 38.9

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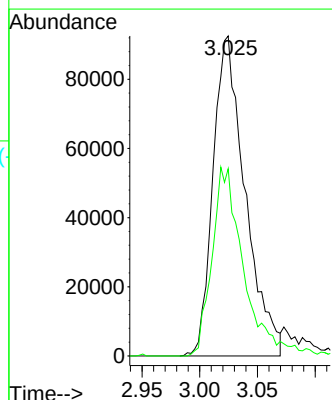
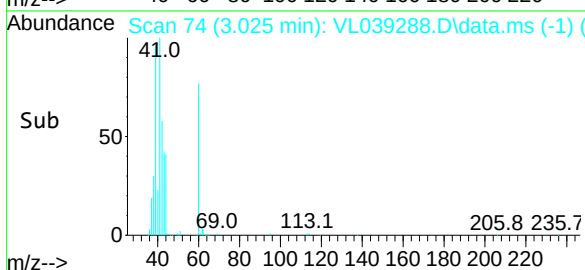
Reviewed By :Semsettin Yesilyurt 06/16/2022
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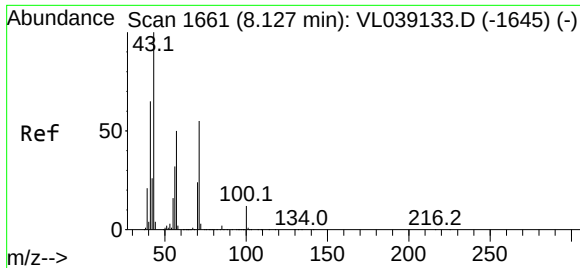


#9
Propene
Concen: 2.399 ppbv
RT: 3.025 min Scan# 74
Delta R.T. 0.006 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06



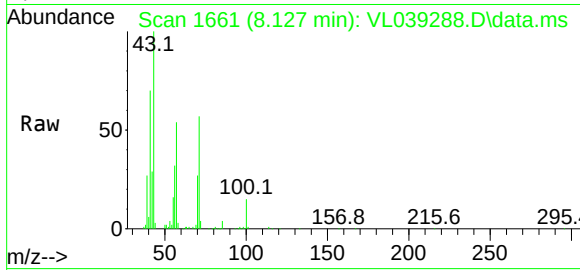
Tgt Ion: 41 Resp: 178900
Ion Ratio Lower Upper
41 100
42 59.2 55.4 83.2





#10
Heptane
Concen: 1.417 ppbv
RT: 8.127 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

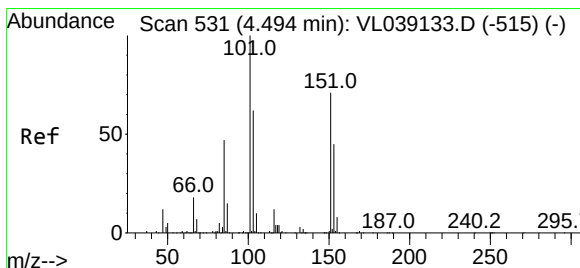
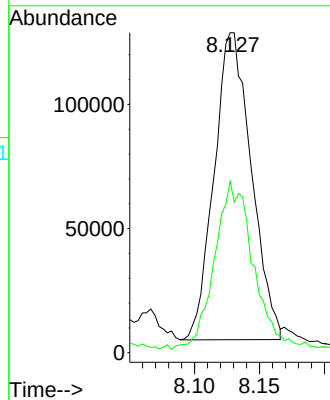
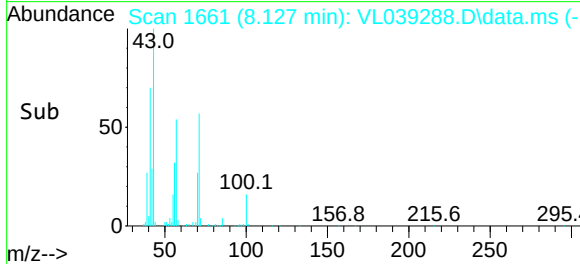
Instrument :
MSVOA_L
ClientSampleId :
SS-2



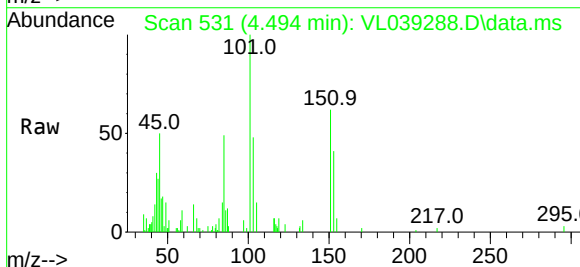
Tgt Ion: 43 Resp: 246480
Ion Ratio Lower Upper
43 100
57 0.0 41.4 62.2

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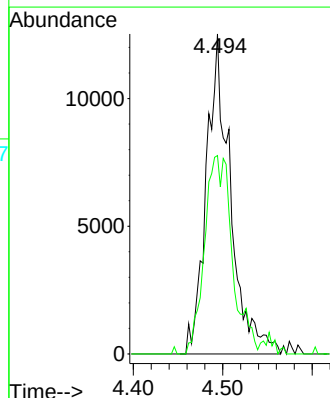
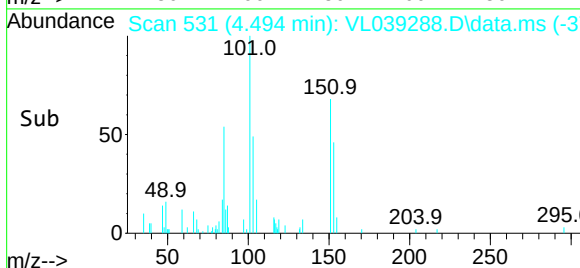
Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022

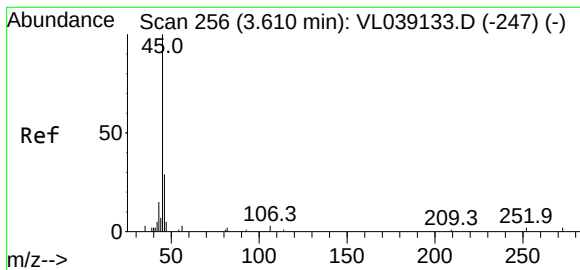


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.165 ppbv m
RT: 4.494 min Scan# 531
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06



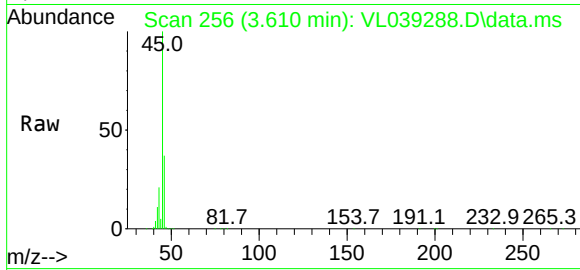
Tgt Ion:101 Resp: 23366
Ion Ratio Lower Upper
101 100
151 74.8 59.4 89.0





#13
Ethanol
Concen: 117.420 ppbv
RT: 3.610 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

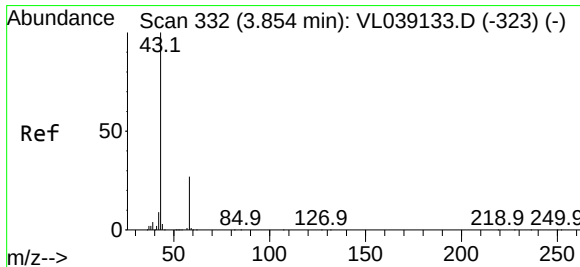
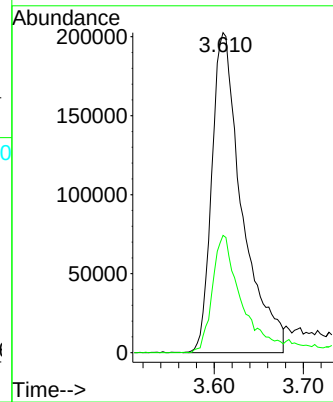
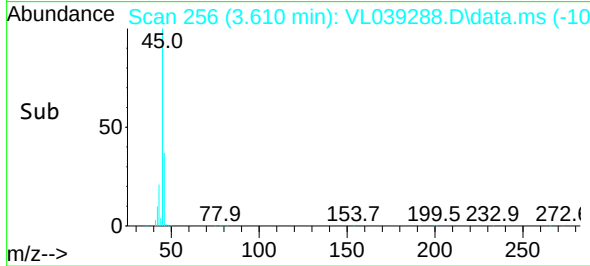
Instrument :
MSVOA_L
ClientSampleId :
SS-2



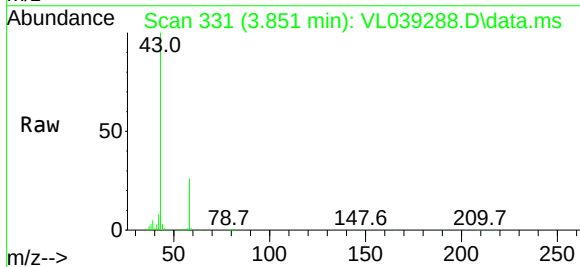
Tgt Ion: 45 Resp: 477479
Ion Ratio Lower Upper
45 100
46 37.9 0.0 0.0

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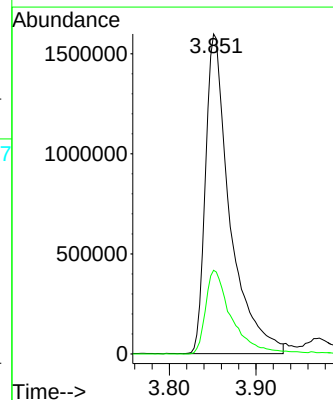
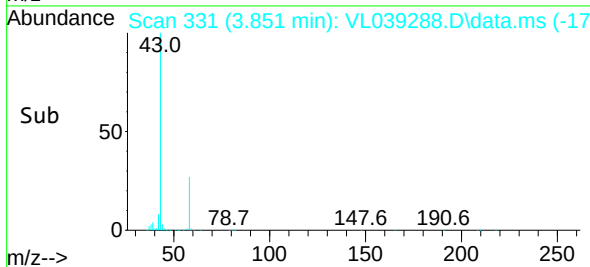
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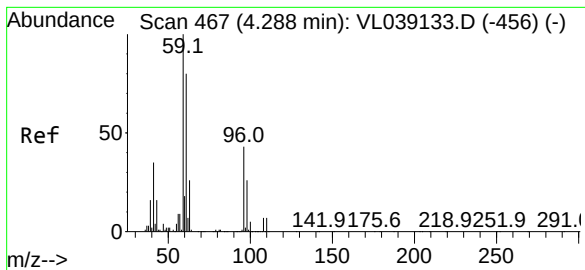


#15
Acetone
Concen: 22.355 ppbv
RT: 3.851 min Scan# 331
Delta R.T. -0.003 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06



Tgt Ion: 43 Resp: 3129707
Ion Ratio Lower Upper
43 100
58 28.7 22.5 33.7





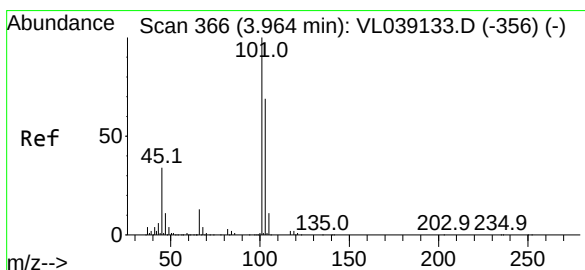
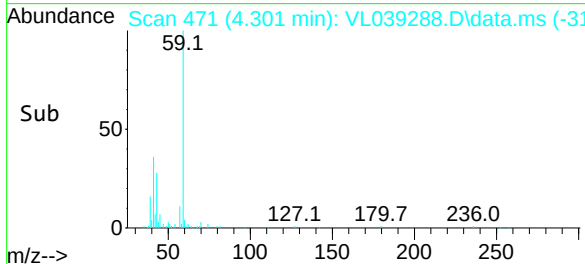
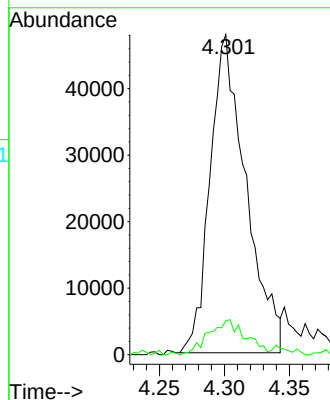
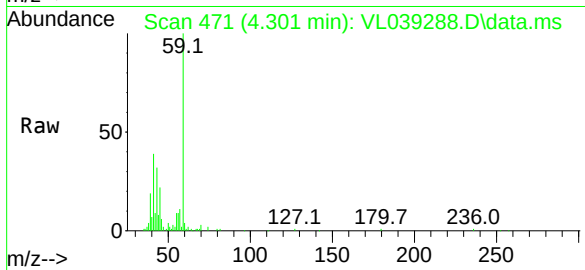
#17
tert-Butyl alcohol
Concen: 0.848 ppbv
RT: 4.301 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

Instrument :
MSVOA_L
ClientSampleId :
SS-2

Tgt Ion: 59 Resp: 9205
Ion Ratio Lower Upper
59 100
57 12.7 9.1 13.7

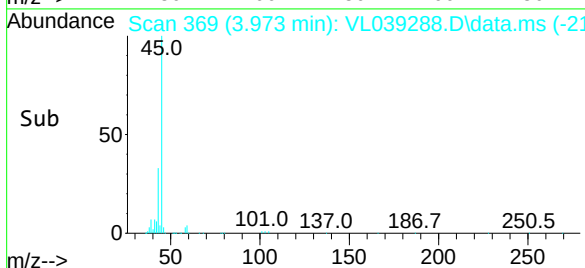
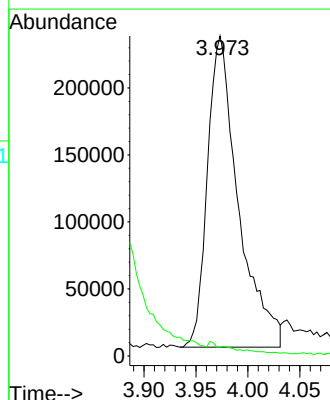
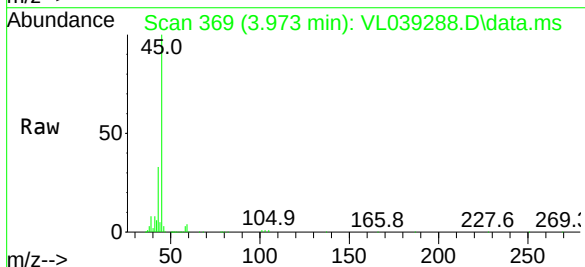
Manual Integrations
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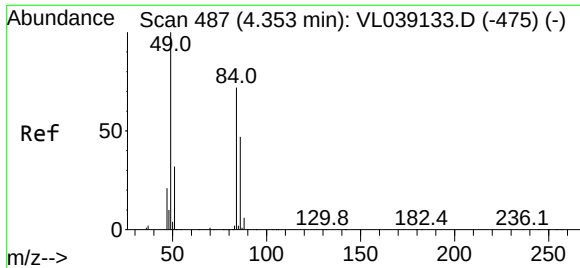
Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022



#19
Isopropyl Alcohol
Concen: 7.308 ppbv
RT: 3.973 min Scan# 369
Delta R.T. 0.010 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

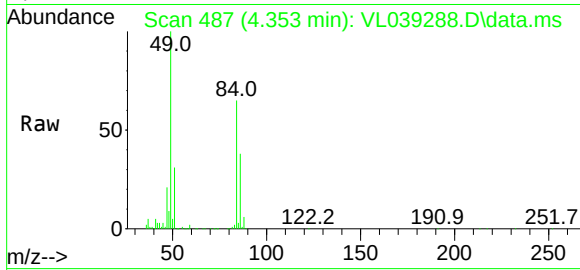
Tgt Ion: 45 Resp: 479855
Ion Ratio Lower Upper
45 100
58 187.8 1.8 2.8#





#20
Methylene Chloride
Concen: 5.358 ppbv
RT: 4.353 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

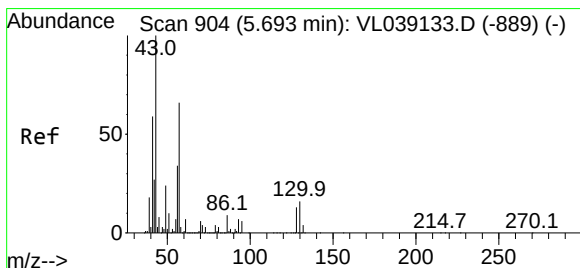
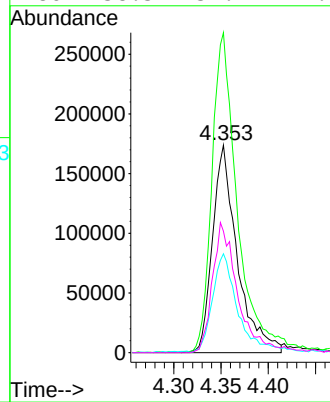
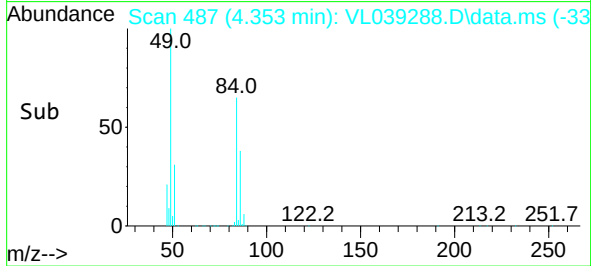
Instrument :
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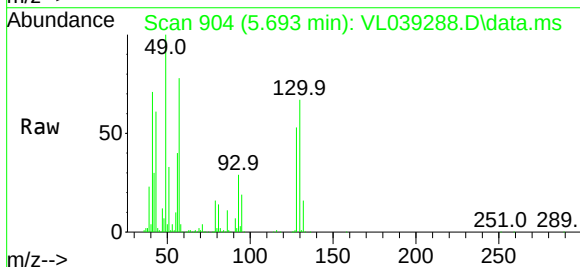
Tgt Ion: 84 Resp: 316112
Ion Ratio Lower Upper
84 100
49 154.0 111.1 166.7
51 47.0 35.3 52.9
86 58.5 51.9 77.9

Manual Integrations
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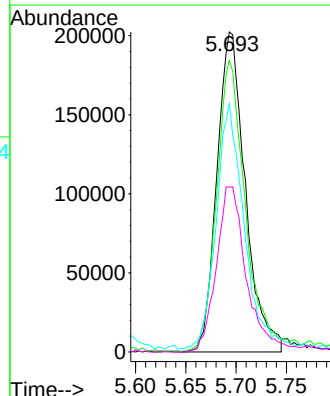
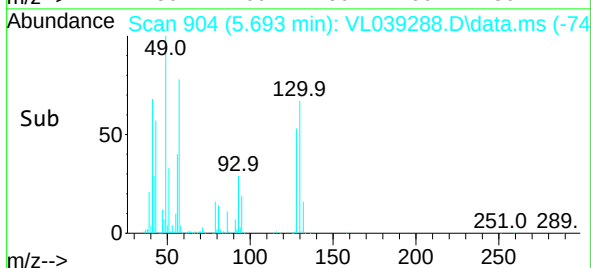
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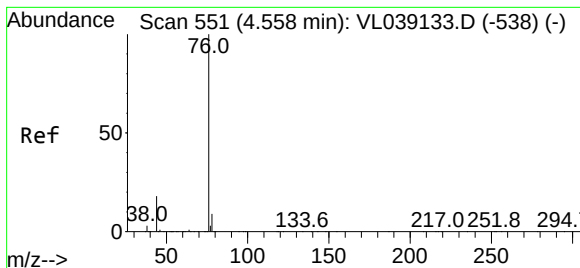


#26
Hexane
Concen: 2.868 ppbv
RT: 5.693 min Scan# 904
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06



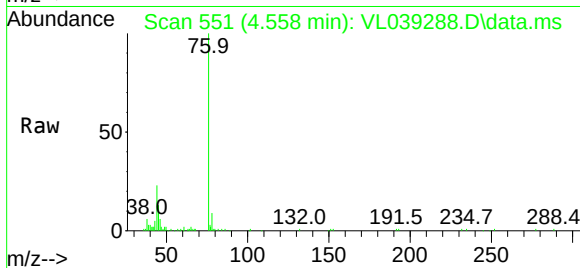
Tgt Ion: 57 Resp: 397710
Ion Ratio Lower Upper
57 100
41 95.7 72.4 108.6
43 75.6 187.0 280.6#
56 56.1 41.8 62.6





#27
Carbon Disulfide
Concen: 0.609 ppbv
RT: 4.558 min Scan# 551
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

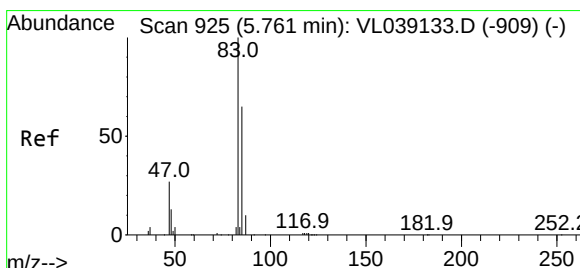
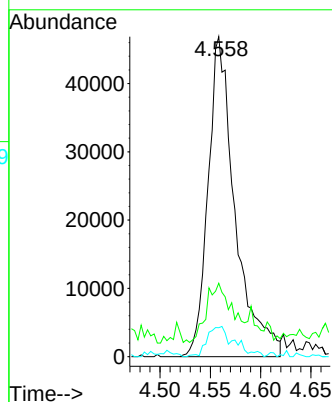
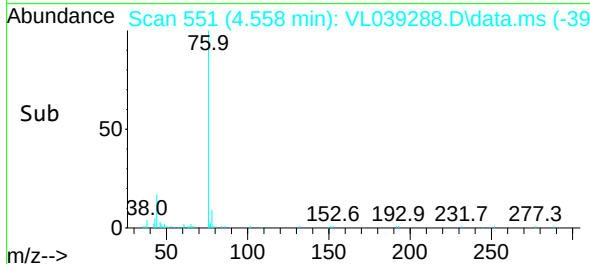
Instrument :
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ClientSampleId :
SS-2



Tgt Ion: 76 Resp: 87492
Ion Ratio Lower Upper
76 100
44 23.7 14.4 21.6
78 10.1 7.7 11.5

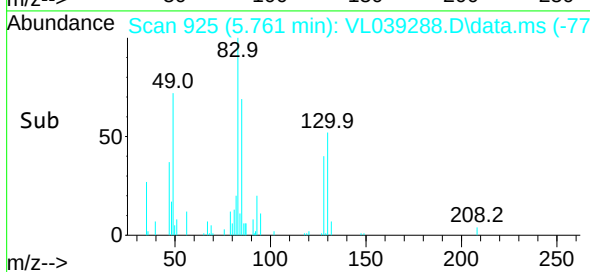
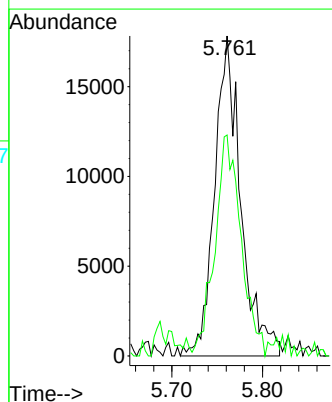
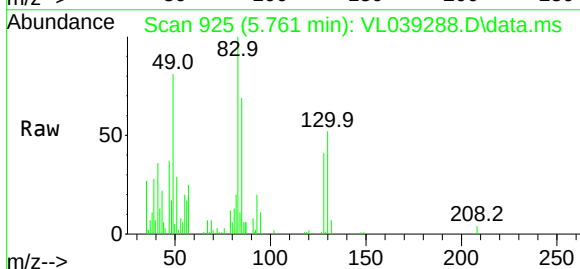
Manual Integrations
APPROVED

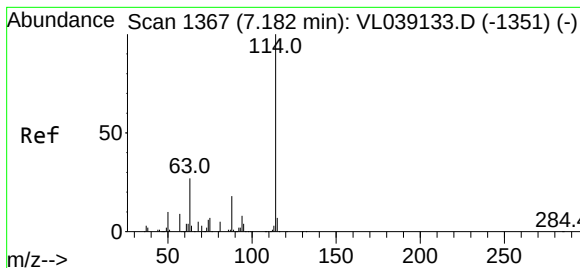
Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022



#29
Chloroform
Concen: 0.153 ppbv m
RT: 5.761 min Scan# 925
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

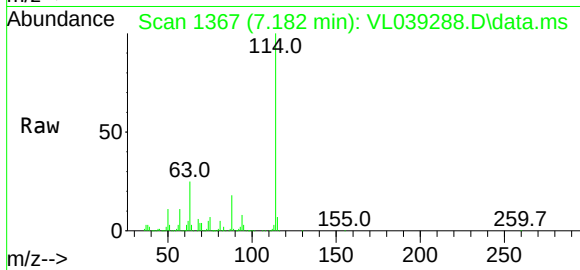
Tgt Ion: 83 Resp: 35729
Ion Ratio Lower Upper
83 100
85 69.1 52.4 78.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.182 min Scan# 114
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

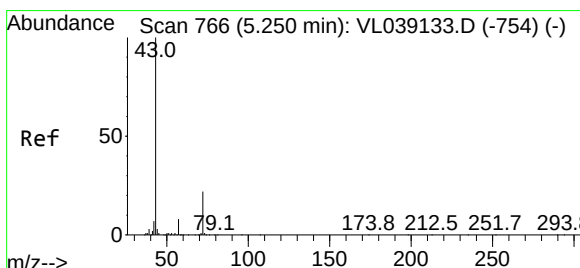
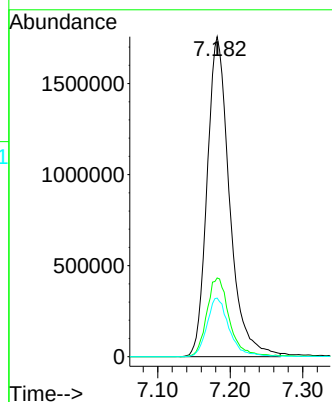
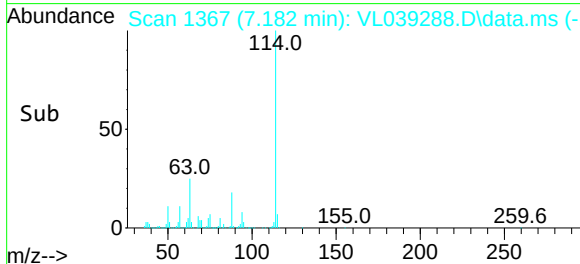
Instrument :
MSVOA_L
ClientSampleId :
SS-2



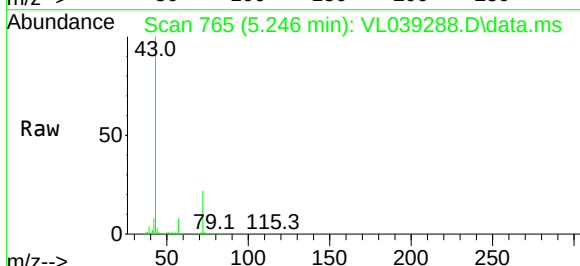
Tgt Ion:114 Resp: 3775068
Ion Ratio Lower Upper
114 100
63 25.2 21.7 32.5
88 18.4 14.8 22.2

Manual Integrations
APPROVED

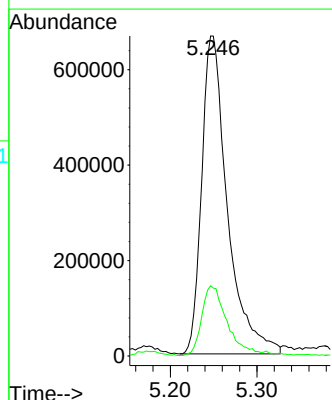
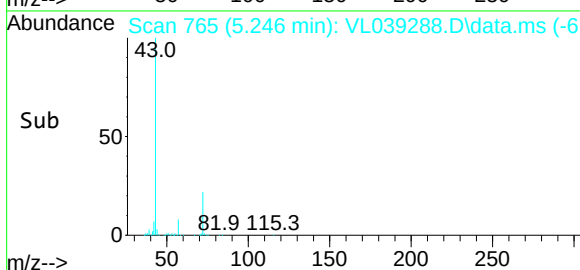
Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022

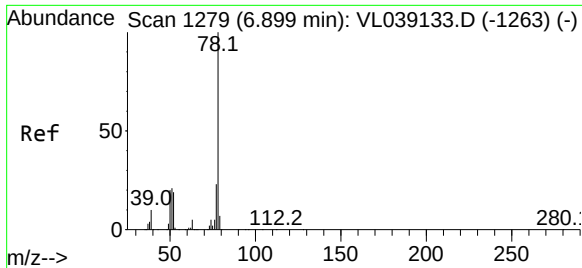


#34
2-Butanone
Concen: 6.719 ppbv
RT: 5.246 min Scan# 765
Delta R.T. -0.003 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06



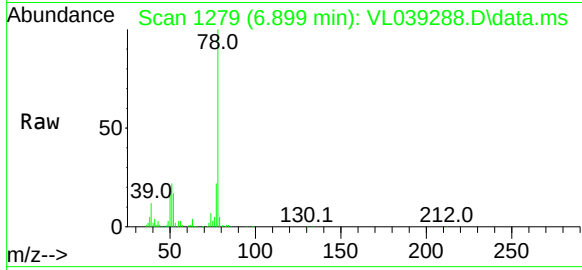
Tgt Ion: 43 Resp: 1378073
Ion Ratio Lower Upper
43 100
72 22.6 18.2 27.2





#36
Benzene
Concen: 0.805 ppbv
RT: 6.899 min Scan# 1279
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

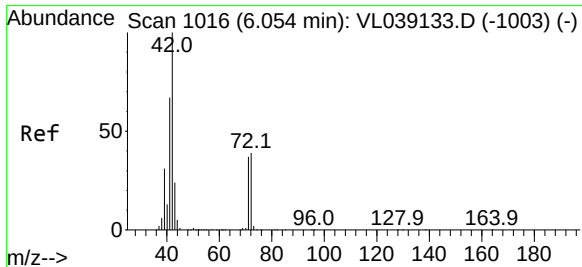
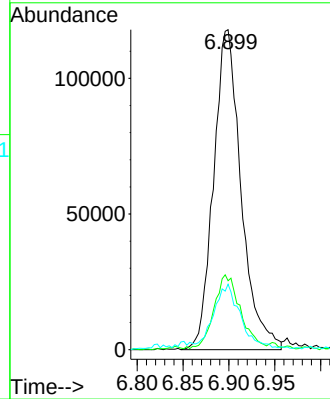
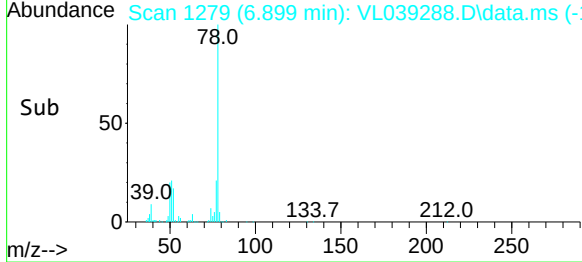
Instrument : MSVOA_L
ClientSampleId : SS-2



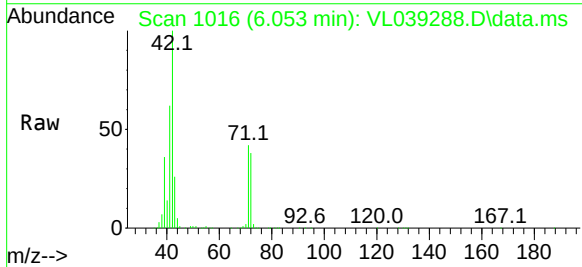
Tgt Ion: 78 Resp: 24684
Ion Ratio Lower Upper
78 100
77 21.2 18.6 27.8
50 19.7 15.8 23.8

Manual Integrations
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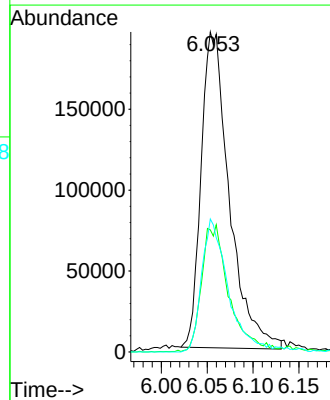
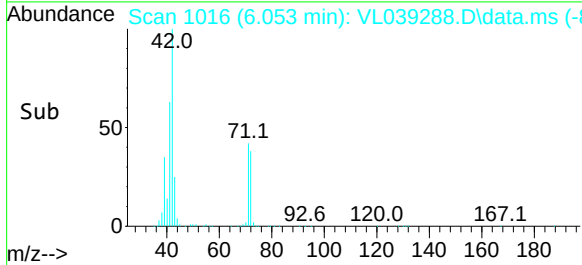
Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022

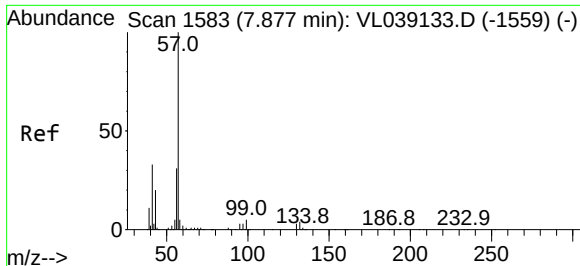


#41
Tetrahydrofuran
Concen: 3.387 ppbv
RT: 6.053 min Scan# 1016
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06



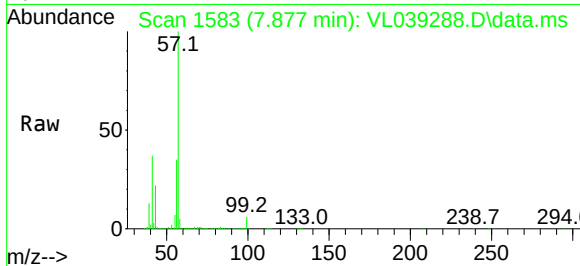
Tgt Ion: 42 Resp: 417756
Ion Ratio Lower Upper
42 100
72 40.6 32.0 48.0
71 40.5 31.1 46.7





#44
2,2,4-Trimethylpentane
Concen: 16.866 ppbv
RT: 7.877 min Scan# 1583
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

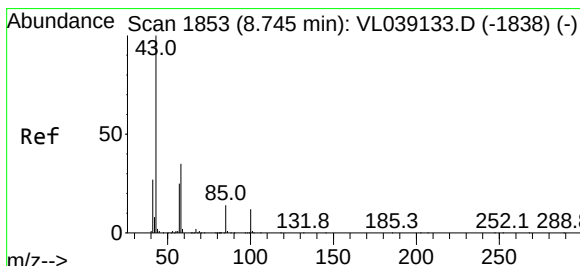
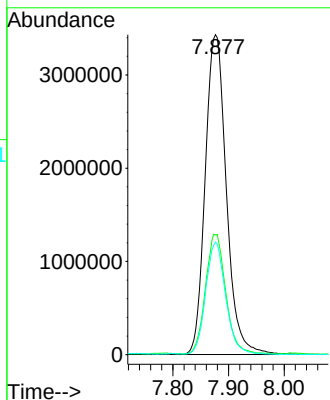
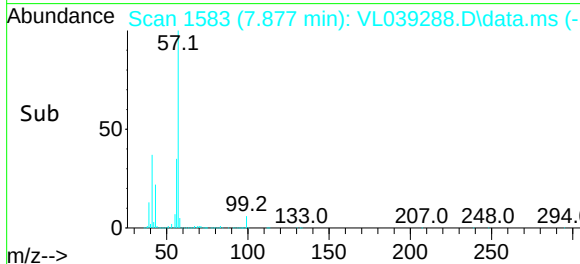
Instrument :
MSVOA_L
ClientSampleId :
SS-2



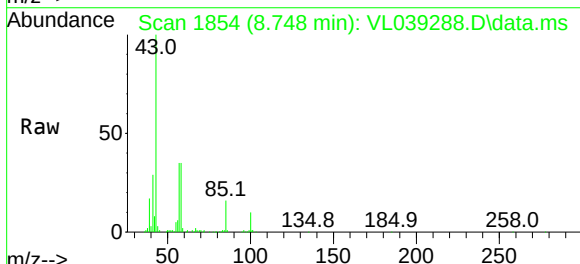
Tgt Ion: 57 Resp: 9042570
Ion Ratio Lower Upper
57 100
41 35.9 26.2 39.4
56 33.3 24.7 37.1

Manual Integrations
APPROVED

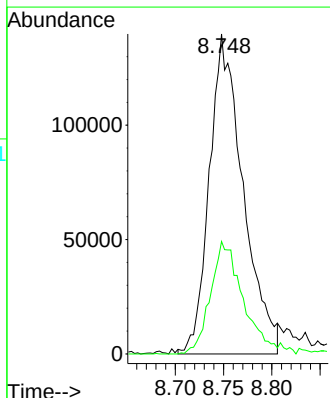
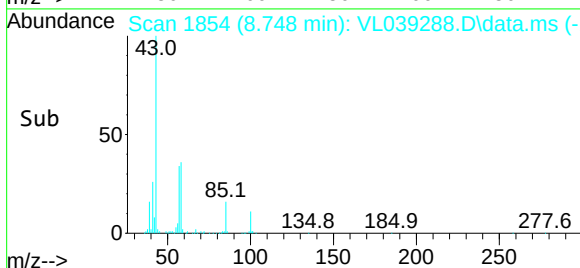
Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022

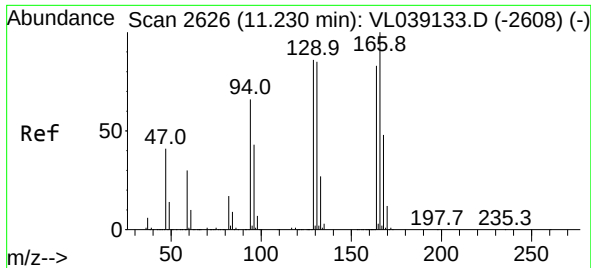


#50
4-Methyl-2-Pentanone
Concen: 1.105 ppbv m
RT: 8.748 min Scan# 1854
Delta R.T. 0.003 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06



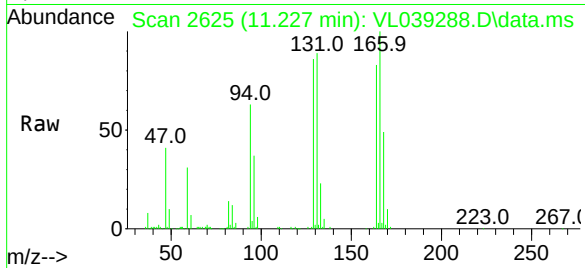
Tgt Ion: 43 Resp: 339356
Ion Ratio Lower Upper
43 100
58 34.9 28.7 43.1





#52
Tetrachloroethene
Concen: 1.039 ppbv
RT: 11.227 min Scan# 2127
Delta R.T. -0.003 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

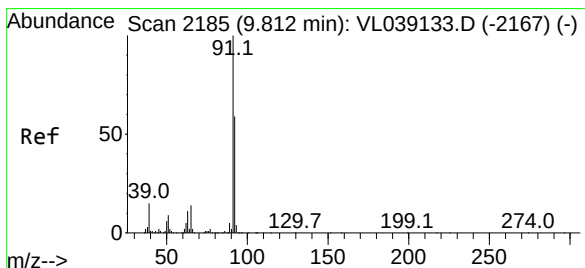
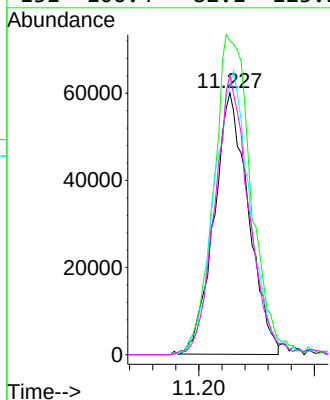
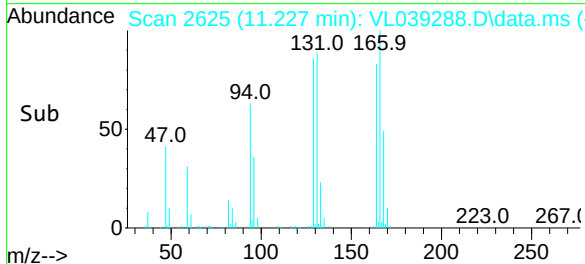
Instrument :
MSVOA_L
ClientSampleId :
SS-2



Tgt Ion:164 Resp: 12432
Ion Ratio Lower Upper
164 100
166 119.9 96.3 144.5
129 102.6 82.5 123.7
131 106.4 82.1 123.1

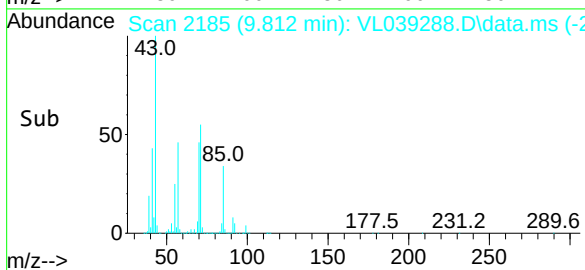
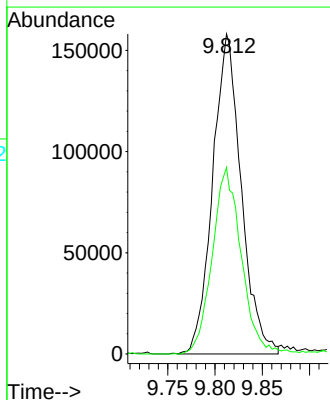
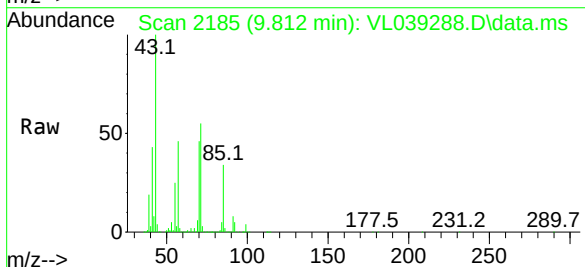
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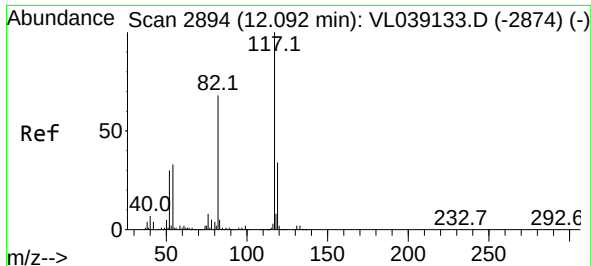
Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022



#53
Toluene
Concen: 0.941 ppbv
RT: 9.812 min Scan# 2185
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

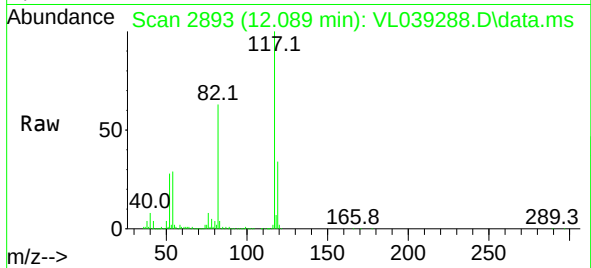
Tgt Ion: 91 Resp: 331991
Ion Ratio Lower Upper
91 100
92 59.3 48.1 72.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.089 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

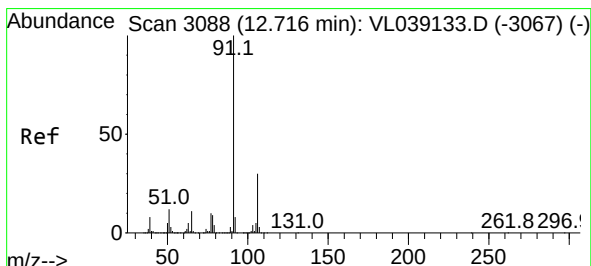
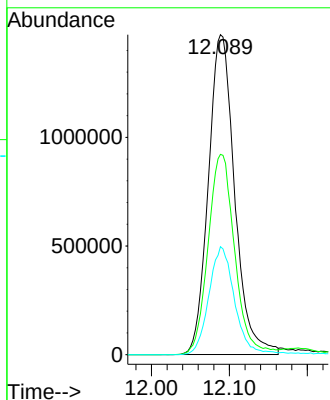
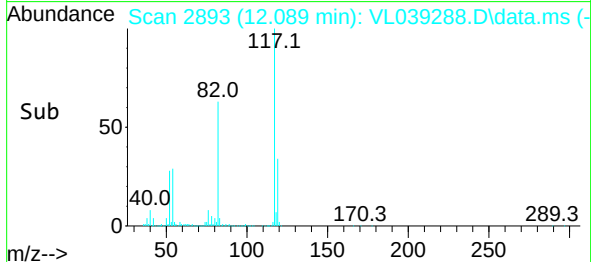
Instrument :
MSVOA_L
ClientSampleId :
SS-2



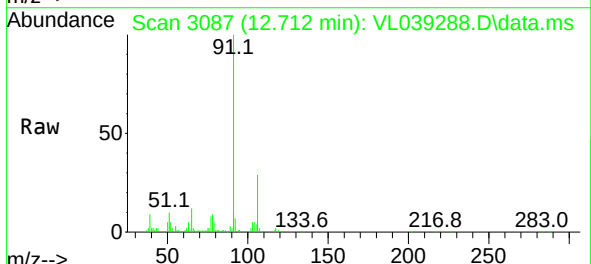
Tgt Ion: 117 Resp: 345956
Ion Ratio Lower Upper
117 100
82 63.3 55.1 82.7
119 33.6 24.7 37.1

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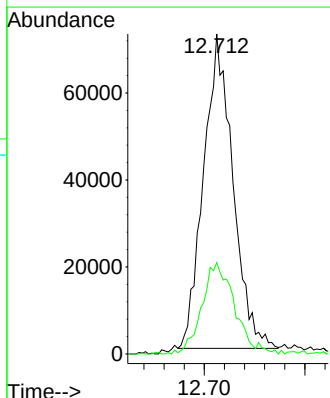
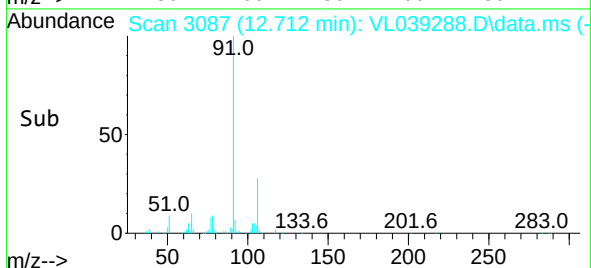
Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022

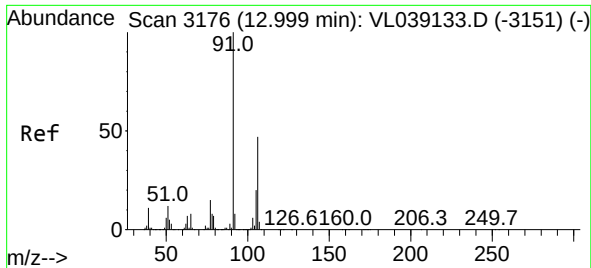


#58
Ethyl Benzene
Concen: 0.307 ppbv
RT: 12.712 min Scan# 3087
Delta R.T. -0.003 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06



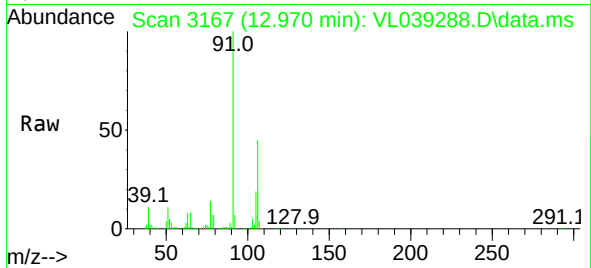
Tgt Ion: 91 Resp: 146308
Ion Ratio Lower Upper
91 100
106 29.0 24.2 36.4





#59
m/p-Xylene
Concen: 1.705 ppbv m
RT: 12.970 min Scan# 3176
Delta R.T. -0.029 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

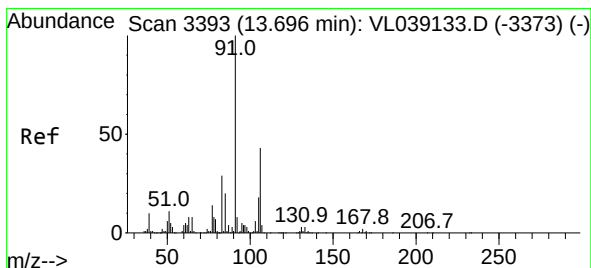
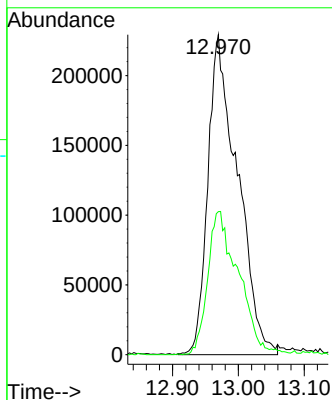
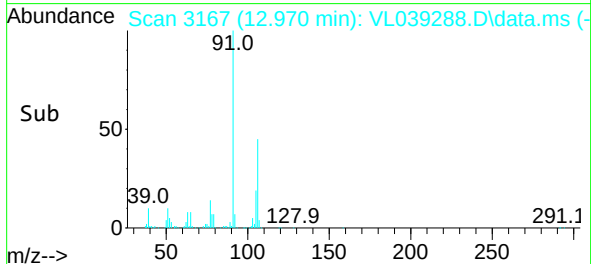
Instrument :
MSVOA_L
ClientSampleId :
SS-2



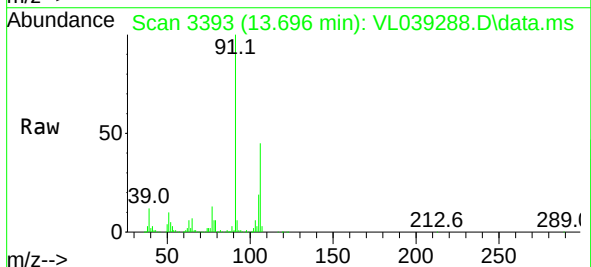
Tgt Ion: 91 Resp: 715679
Ion Ratio Lower Upper
91 100
106 0.0 34.3 51.5

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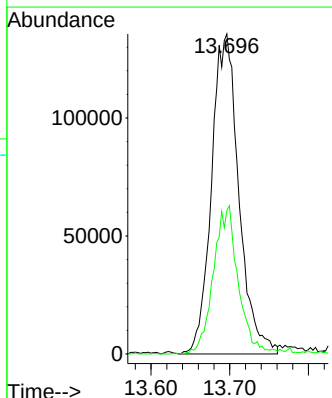
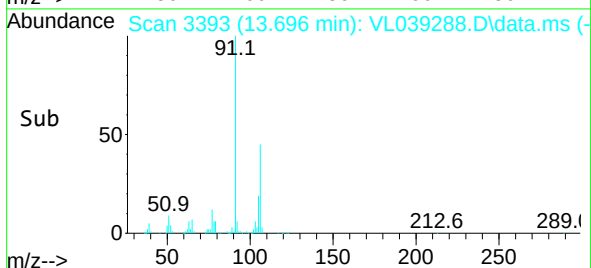
Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022

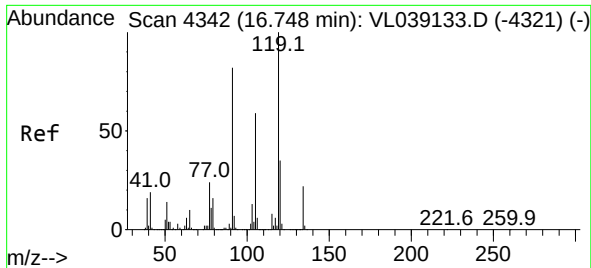


#60
o-Xylene
Concen: 0.830 ppbv m
RT: 13.696 min Scan# 3393
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06



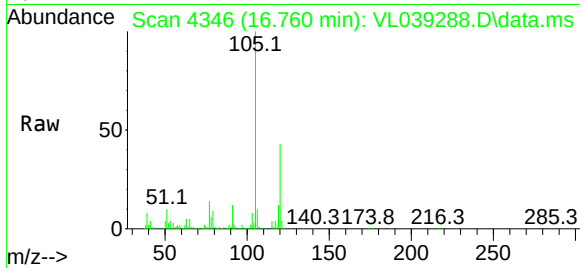
Tgt Ion: 91 Resp: 327201
Ion Ratio Lower Upper
91 100
106 42.8 22.3 66.9





#65
tert-Butylbenzene
Concen: 0.130 ppbv m
RT: 16.760 min Scan# 4342
Delta R.T. 0.013 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

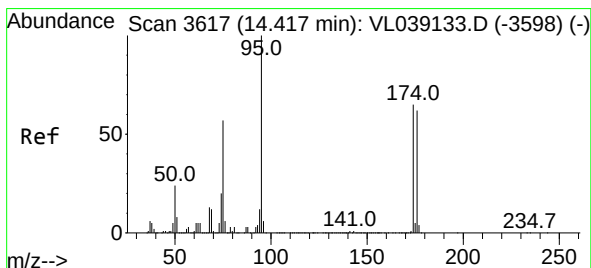
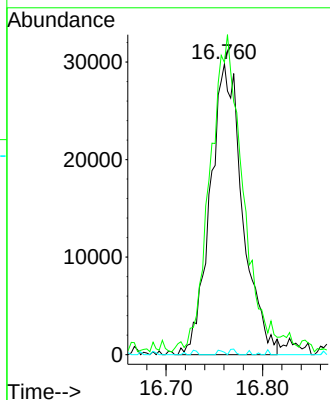
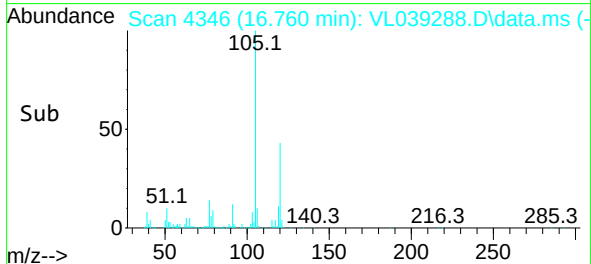
Instrument :
MSVOA_L
ClientSampleId :
SS-2



Tgt Ion: 119 Resp: 69540
Ion Ratio Lower Upper
119 100
91 115.8 67.1 100.7
134 0.0 15.8 23.8

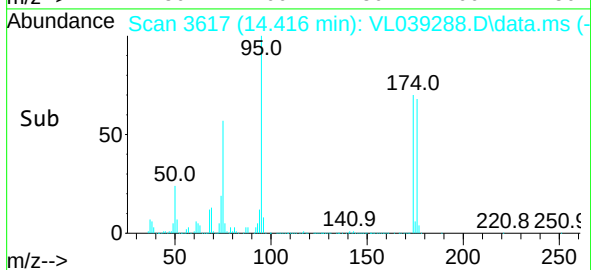
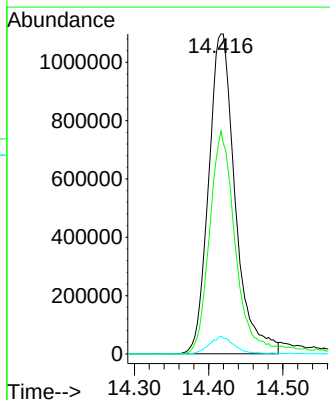
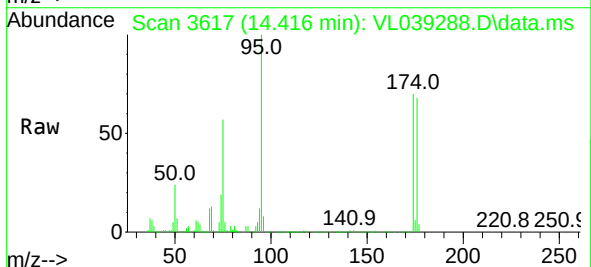
Manual Integrations
APPROVED

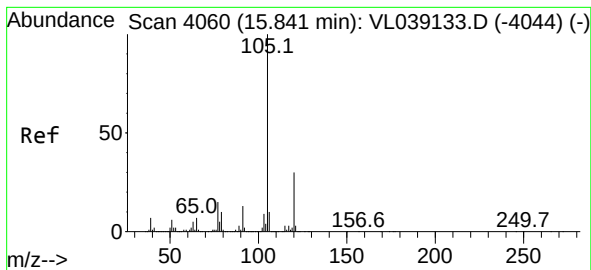
Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 9.538 ppbv
RT: 14.416 min Scan# 3617
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

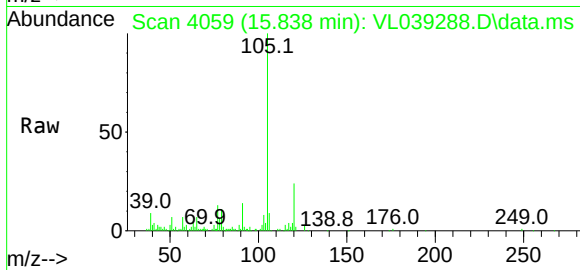
Tgt Ion: 95 Resp: 2727895
Ion Ratio Lower Upper
95 100
174 70.9 53.8 80.8
175 5.2 4.1 6.1





#72
4-Ethyltoluene
Concen: 0.403 ppbv
RT: 15.838 min Scan# 4059
Delta R.T. -0.003 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

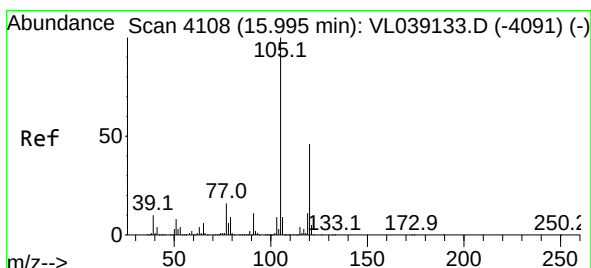
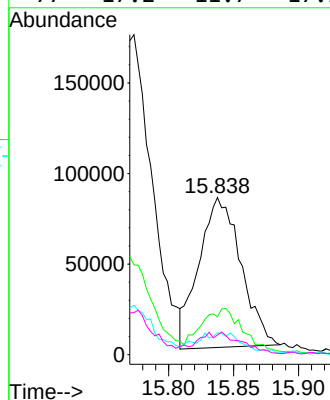
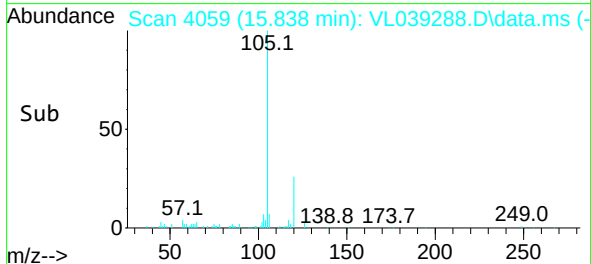
Instrument : MSVOA_L
ClientSampleId : SS-2



Tgt Ion:105 Resp: 186270
Ion Ratio Lower Upper
105 100
120 33.8 23.9 35.9
91 17.7 10.6 16.0
77 17.2 11.7 17.5

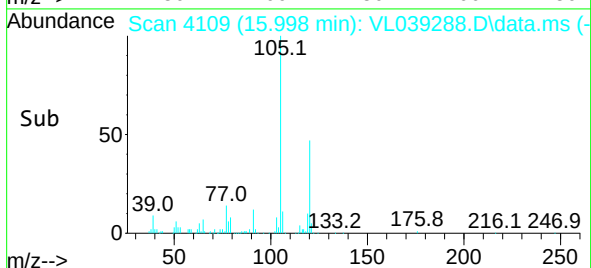
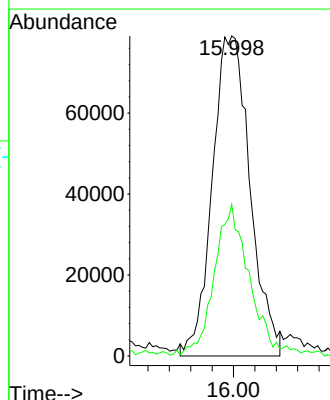
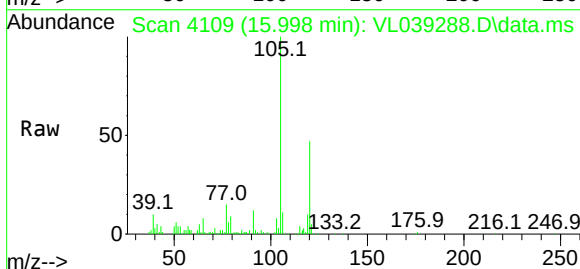
Manual Integrations
APPROVED

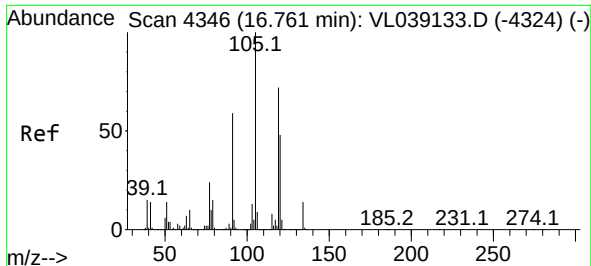
Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022



#73
1,3,5-Trimethylbenzene
Concen: 0.465 ppbv m
RT: 15.998 min Scan# 4109
Delta R.T. 0.003 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

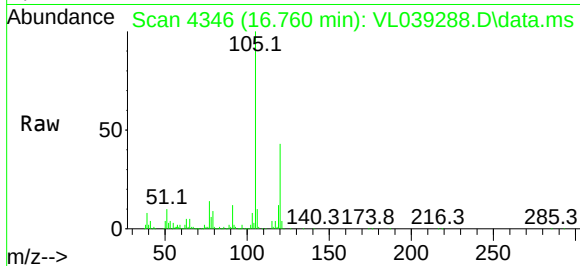
Tgt Ion:105 Resp: 193665
Ion Ratio Lower Upper
105 100
120 47.3 36.7 55.1





#74
1,2,4-Trimethylbenzene
Concen: 1.333 ppbv
RT: 16.760 min Scan# 4346
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06

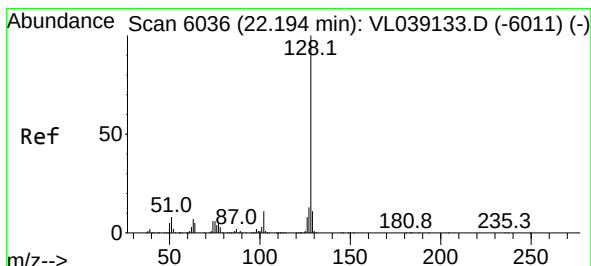
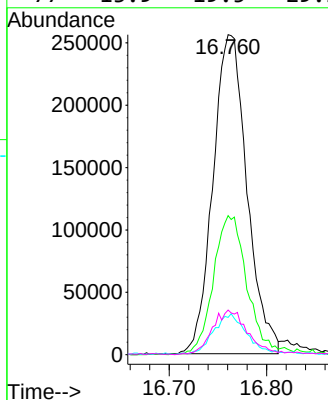
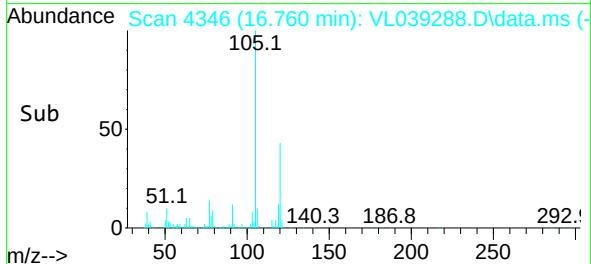
Instrument : MSVOA_L
ClientSampleId : SS-2



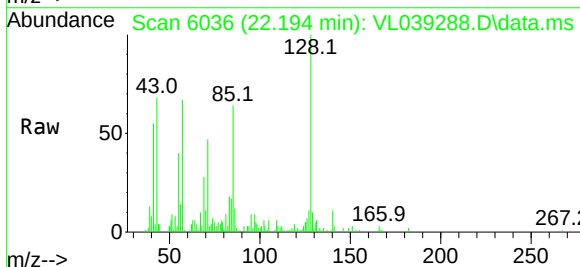
Tgt Ion:105 Resp: 62014
Ion Ratio Lower Upper
105 100
120 43.3 38.1 57.1
91 11.4 47.4 71.0
77 13.9 19.5 29.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/16/2022
Supervised By :Mahesh Dadoda 06/16/2022



#79
Naphthalene
Concen: 0.161 ppbv m
RT: 22.194 min Scan# 6036
Delta R.T. -0.000 min
Lab File: VL039288.D
Acq: 14 Jun 2022 20:06



Tgt Ion:128 Resp: 57633
Ion Ratio Lower Upper
128 100
127 11.3 10.4 15.6
129 9.7 9.0 13.6

