

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060622\
 Data File : VL039185.D
 Acq On : 6 Jun 2022 14:13
 Operator : SY/AP
 Sample : N3110-06 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-8DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/07/2022
 Supervised By :Mahesh Dadoda 06/07/2022

Quant Time: Jun 06 14:45:07 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 06 14:45:07 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	5.665	49	1284182	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.169	114	3439577	10.000	ppbv	-0.01
55) Chlorobenzene-d5	12.073	117	3088538	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.404	95	2433455	9.530	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.051	85	23048	0.102	ppbv	99
4) Chloromethane	3.141	50	14936	0.178	ppbv #	86
9) Propene	3.022	41	35872m	0.503	ppbv	
10) Heptane	8.111	43	32403m	0.195	ppbv	
11) Trichlorofluoromethane	3.948	101	32516m	0.159	ppbv	
13) Ethanol	3.597	45	383515	98.704	ppbv #	100
15) Acetone	3.845	43	1187612	8.878	ppbv	97
17) tert-Butyl alcohol	4.301	59	26171	0.252	ppbv #	92
19) Isopropyl Alcohol	3.964	45	90785	1.447	ppbv #	1
20) Methylene Chloride	4.340	84	344027	6.103	ppbv	93
26) Hexane	5.684	57	681142	5.141	ppbv #	45
27) Carbon Disulfide	4.552	76	47972	0.349	ppbv #	79
29) Chloroform	5.751	83	34920m	0.157	ppbv	
34) 2-Butanone	5.247	43	167886	0.898	ppbv	96
36) Benzene	6.883	78	67791	0.243	ppbv	95
51) 2-Hexanone	10.143	43	68720m	0.316	ppbv	
52) Tetrachloroethene	11.214	164	137477	1.261	ppbv	94
53) Toluene	9.799	91	268821	0.836	ppbv	98
58) Ethyl Benzene	12.700	91	178808	0.420	ppbv	93
59) m/p-Xylene	12.954	91	665265	1.776	ppbv	94
60) o-Xylene	13.677	91	272641	0.774	ppbv	99
61) Styrene	13.520	104	22523m	0.119	ppbv	
64) n-propylbenzene	15.548	120	29745m	0.231	ppbv	
70) n-Butylbenzene	18.542	91	65419m	0.116	ppbv	
72) 4-Ethyltoluene	15.825	105	189860m	0.460	ppbv	
73) 1,3,5-Trimethylbenzene	15.986	105	138952	0.373	ppbv	95
74) 1,2,4-Trimethylbenzene	16.744	105	539651	1.299	ppbv #	67
79) Naphthalene	22.185	128	33615m	0.105	ppbv	

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

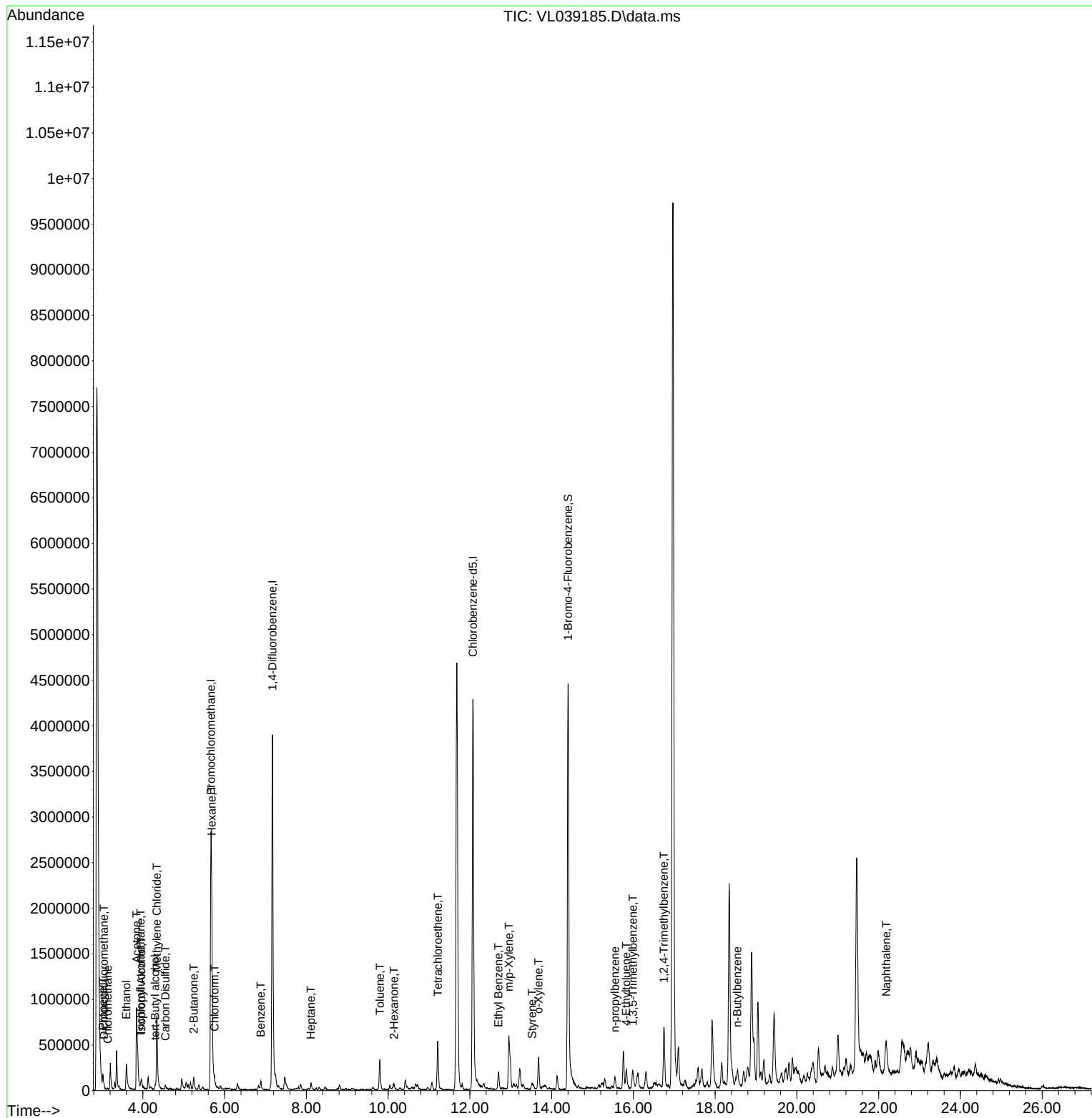
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060622\
Data File : VL039185.D
Acq On : 6 Jun 2022 14:13
Operator : SY/AP
Sample : N3110-06 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

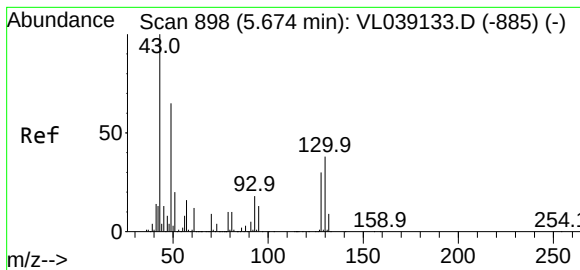
Instrument :
MSVOA_L
ClientSampleId :
SG-8DL

Quant Time: Jun 06 14:45:07 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
APPROVED

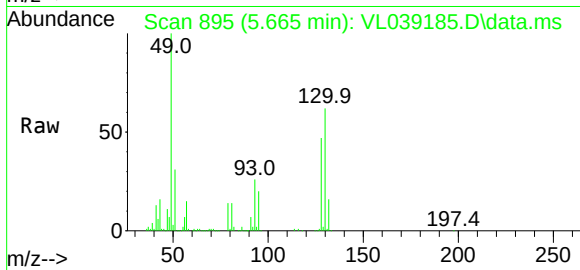
Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.665 min Scan# 89
Delta R.T. -0.010 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

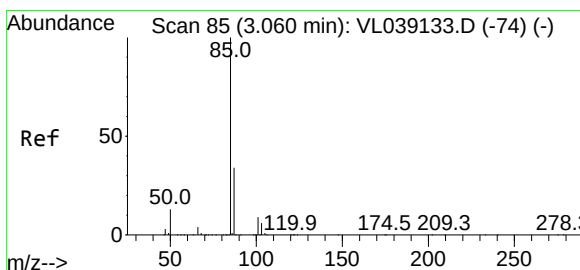
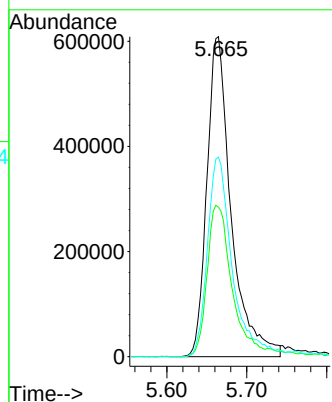
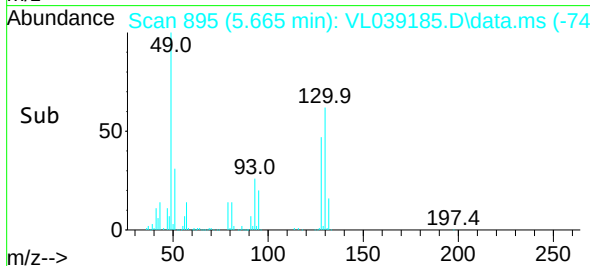
Instrument :
MSVOA_L
ClientSampleId :
SG-8DL



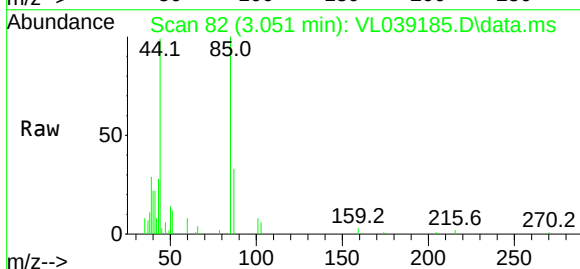
Tgt Ion: 49 Resp: 128418
Ion Ratio Lower Upper
49 100
128 51.2 24.7 74.1
130 66.7 31.4 94.0

Manual Integrations
APPROVED

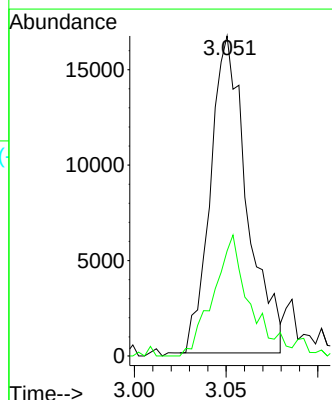
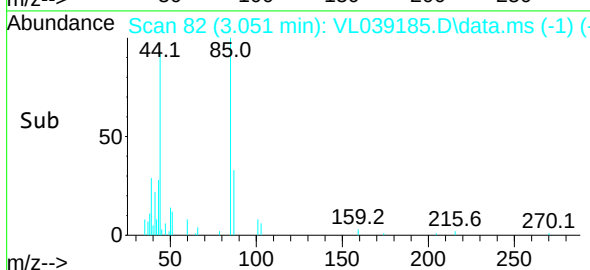
Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022

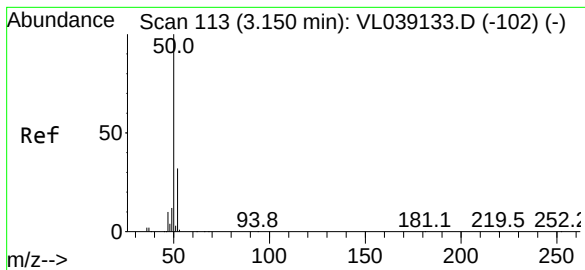


#2
Dichlorodifluoromethane
Concen: 0.102 ppbv
RT: 3.051 min Scan# 82
Delta R.T. -0.010 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13



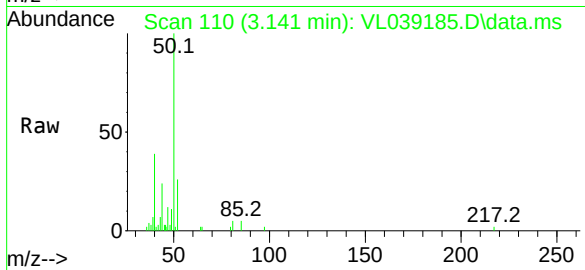
Tgt Ion: 85 Resp: 23048
Ion Ratio Lower Upper
85 100
87 33.1 26.9 40.3





#4
Chloromethane
Concen: 0.178 ppbv
RT: 3.141 min Scan# 113
Delta R.T. -0.010 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

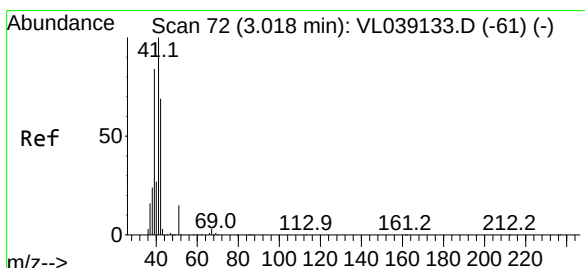
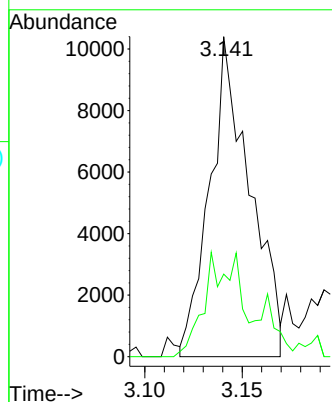
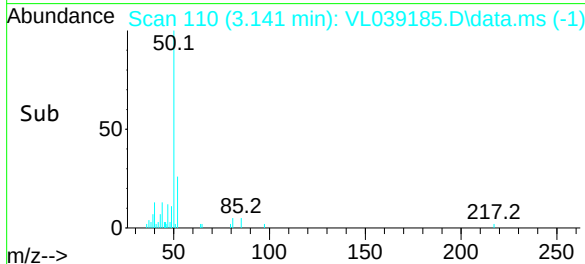
Instrument :
MSVOA_L
ClientSampleId :
SG-8DL



Tgt Ion: 50 Resp: 14930
Ion Ratio Lower Upper
50 100
52 24.6 25.9 38.9

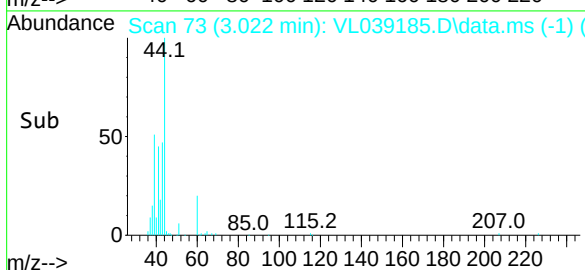
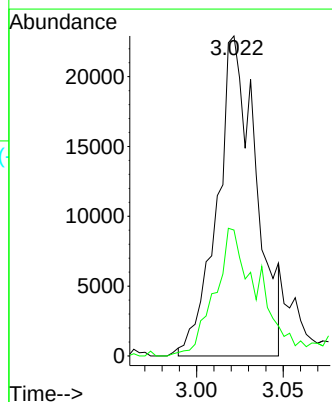
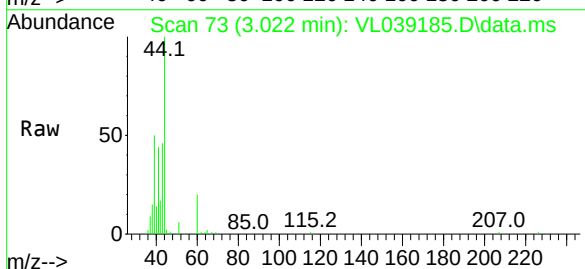
Manual Integrations
APPROVED

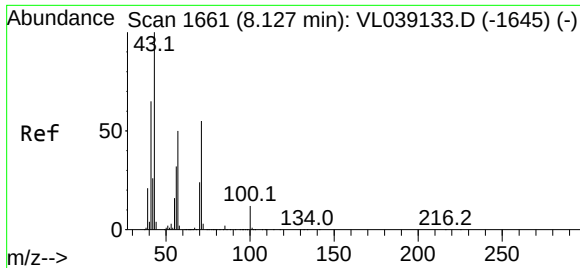
Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022



#9
Propene
Concen: 0.503 ppbv m
RT: 3.022 min Scan# 73
Delta R.T. 0.003 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

Tgt Ion: 41 Resp: 35872
Ion Ratio Lower Upper
41 100
42 45.5 55.4 83.2





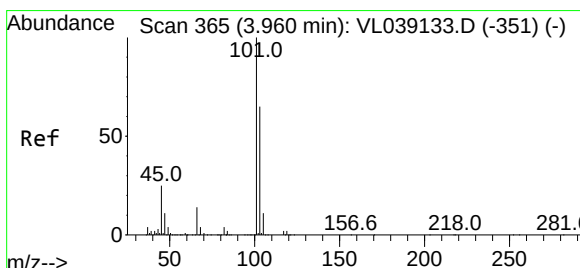
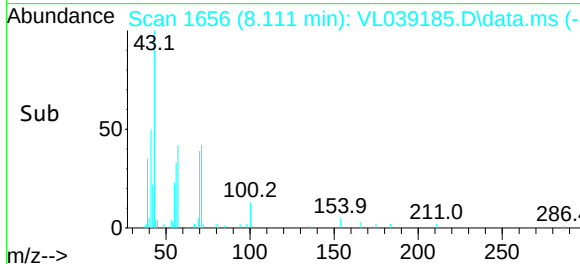
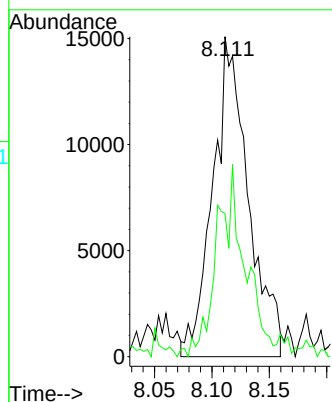
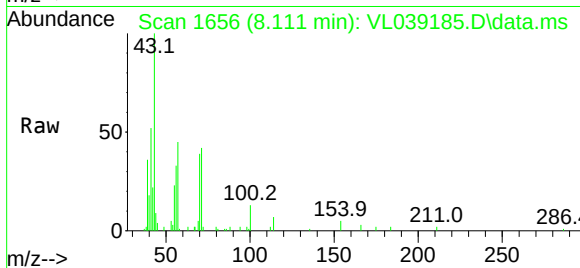
#10
Heptane
Concen: 0.195 ppbv m
RT: 8.111 min Scan# 1656
Delta R.T. -0.016 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

Instrument :
MSVOA_L
ClientSampleId :
SG-8DL

Tgt Ion: 43 Resp: 3240
Ion Ratio Lower Upper
43 100
57 53.7 41.4 62.2

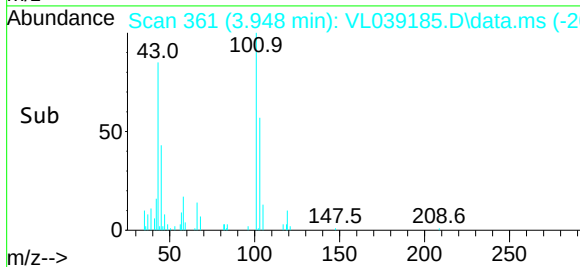
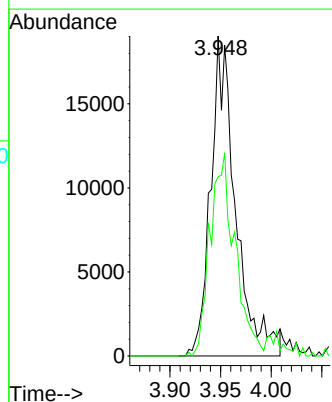
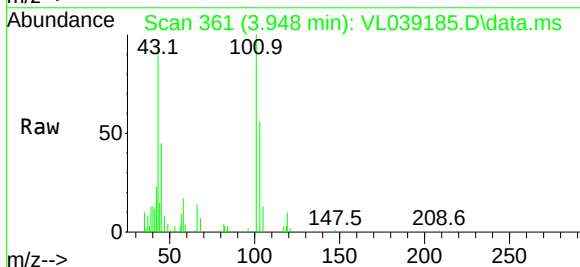
Manual Integrations
APPROVED

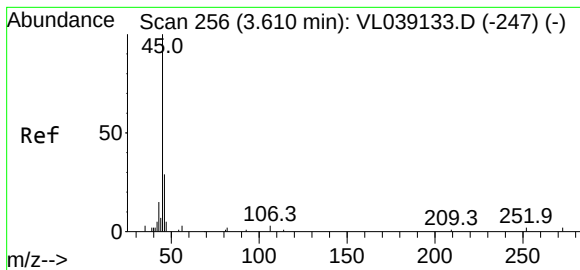
Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022



#11
Trichlorofluoromethane
Concen: 0.159 ppbv m
RT: 3.948 min Scan# 361
Delta R.T. -0.013 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

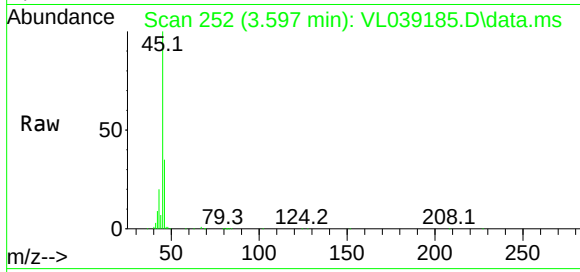
Tgt Ion:101 Resp: 32516
Ion Ratio Lower Upper
101 100
103 56.0 51.7 77.5





#13
Ethanol
Concen: 98.704 ppbv
RT: 3.597 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

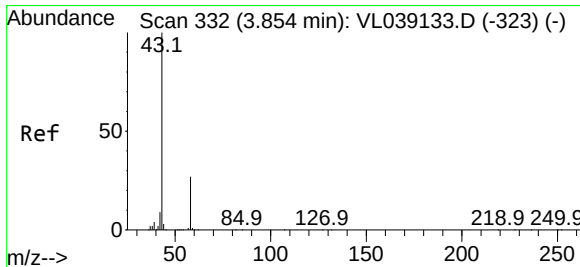
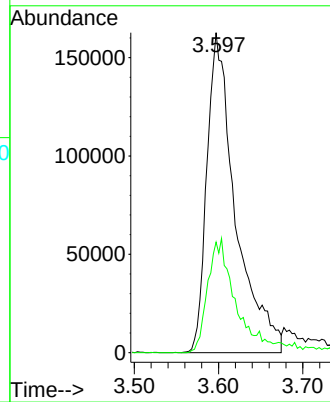
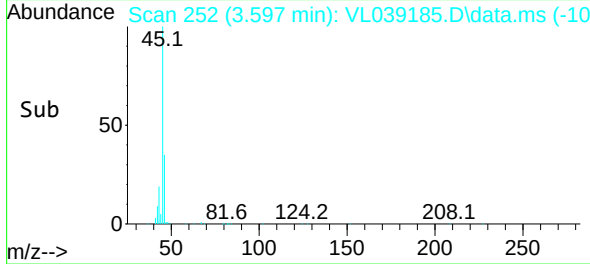
Instrument :
MSVOA_L
ClientSampleId :
SG-8DL



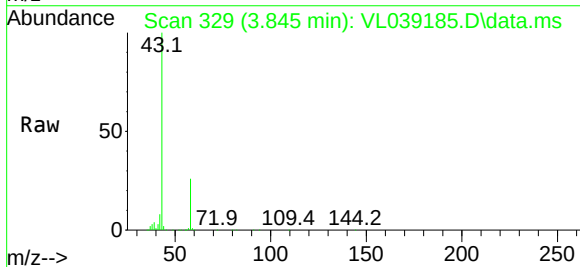
Tgt Ion: 45 Resp: 38351
Ion Ratio Lower Upper
45 100
46 38.1 0.0 0.0

Manual Integrations
APPROVED

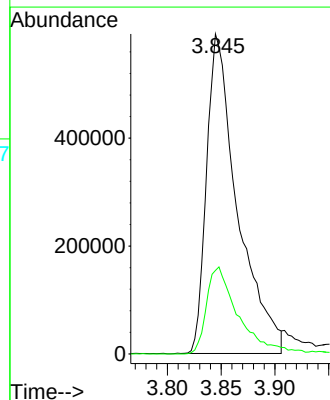
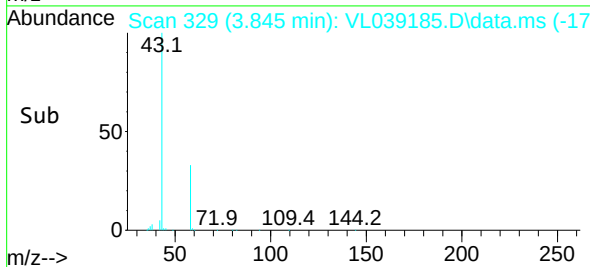
Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022

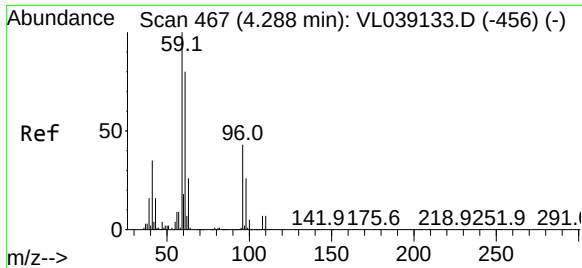


#15
Acetone
Concen: 8.878 ppbv
RT: 3.845 min Scan# 329
Delta R.T. -0.010 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13



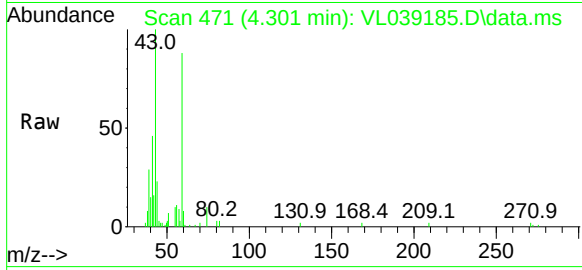
Tgt Ion: 43 Resp: 1187612
Ion Ratio Lower Upper
43 100
58 29.6 22.5 33.7





#17
tert-Butyl alcohol
Concen: 0.252 ppbv
RT: 4.301 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

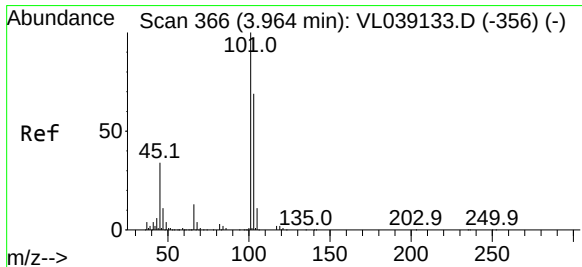
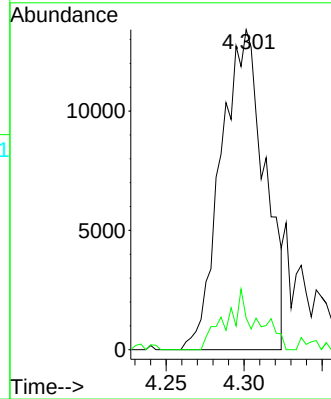
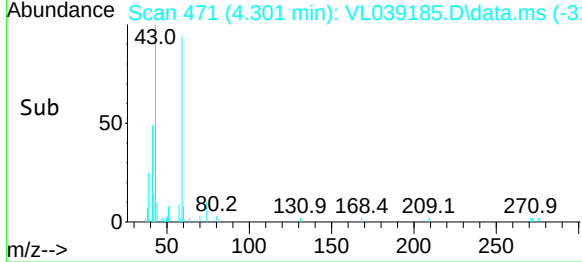
Instrument :
MSVOA_L
ClientSampleId :
SG-8DL



Tgt Ion: 59 Resp: 2617
Ion Ratio Lower Upper
59 100
57 14.4 9.1 13.7

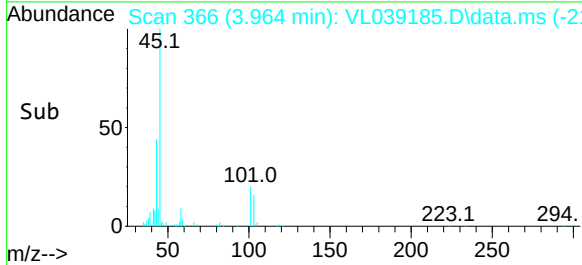
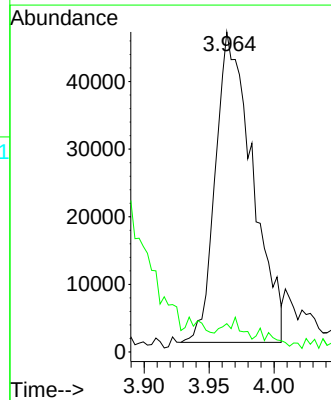
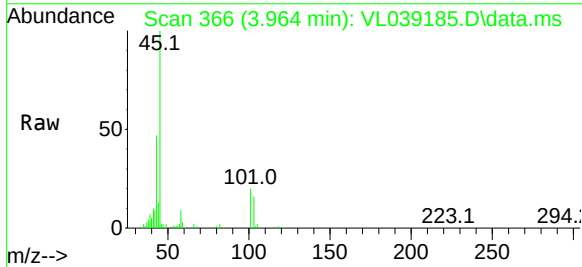
Manual Integrations
APPROVED

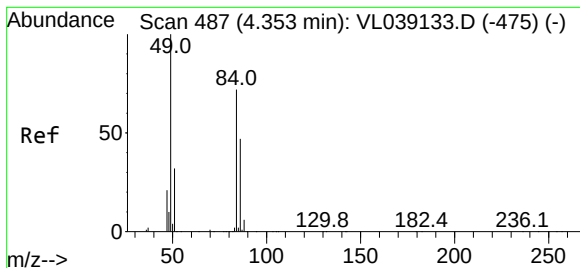
Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022



#19
Isopropyl Alcohol
Concen: 1.447 ppbv
RT: 3.964 min Scan# 366
Delta R.T. 0.000 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

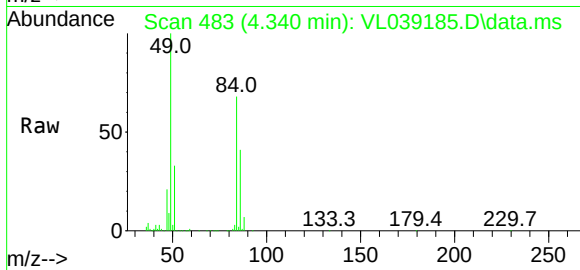
Tgt Ion: 45 Resp: 90785
Ion Ratio Lower Upper
45 100
58 373.0 1.8 2.8





#20
Methylene Chloride
Concen: 6.103 ppbv
RT: 4.340 min Scan# 41
Delta R.T. -0.013 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

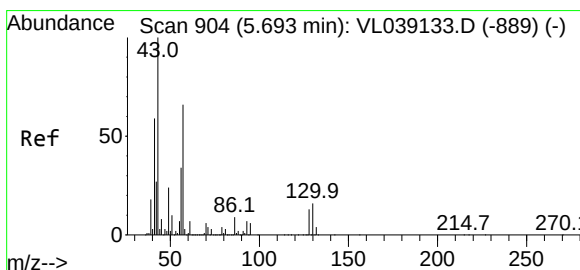
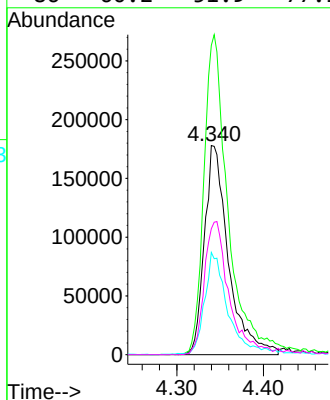
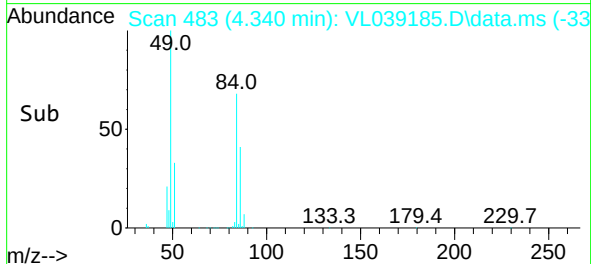
Instrument :
MSVOA_L
ClientSampleId :
SG-8DL



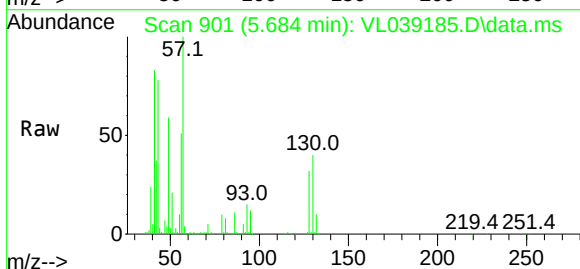
Tgt Ion: 84 Resp: 34402
Ion Ratio Lower Upper
84 100
49 147.6 111.1 166.7
51 48.2 35.3 52.9
86 60.2 51.9 77.9

Manual Integrations
APPROVED

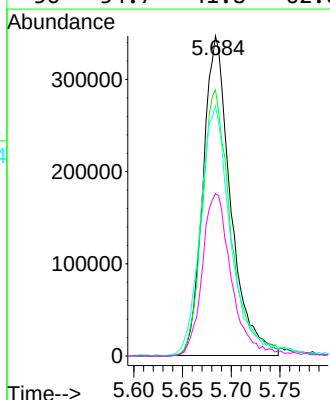
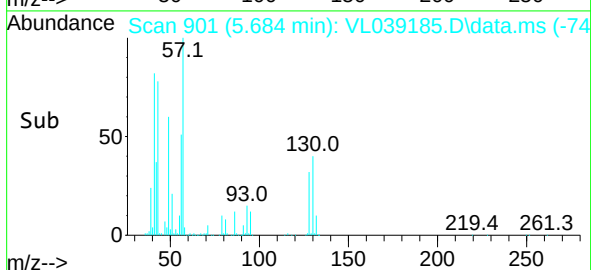
Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022

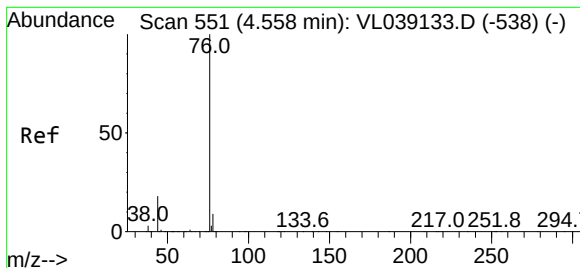


#26
Hexane
Concen: 5.141 ppbv
RT: 5.684 min Scan# 901
Delta R.T. -0.010 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13



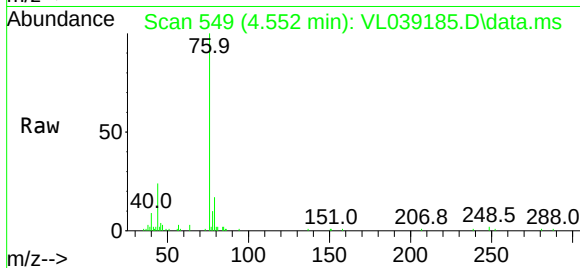
Tgt Ion: 57 Resp: 681142
Ion Ratio Lower Upper
57 100
41 88.6 72.4 108.6
43 88.3 187.0 280.6#
56 54.7 41.8 62.6





#27
Carbon Disulfide
Concen: 0.349 ppbv
RT: 4.552 min Scan# 549
Delta R.T. -0.006 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

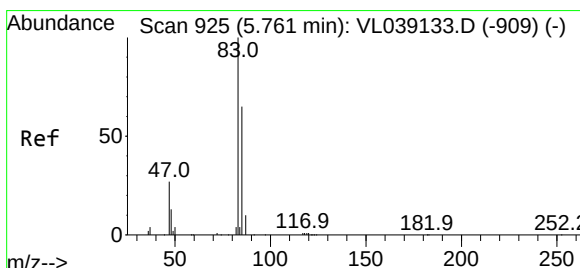
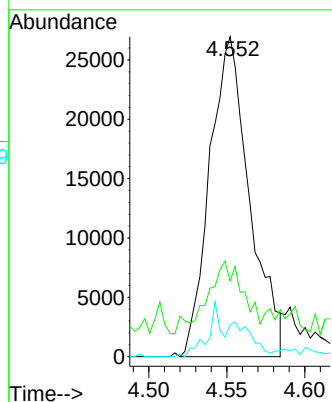
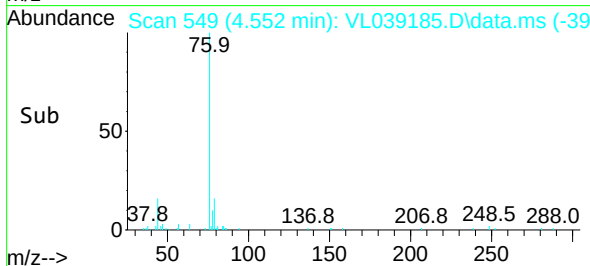
Instrument :
MSVOA_L
ClientSampleId :
SG-8DL



Tgt Ion: 76 Resp: 47972
Ion Ratio Lower Upper
76 100
44 30.1 14.4 21.6
78 12.8 7.7 11.5

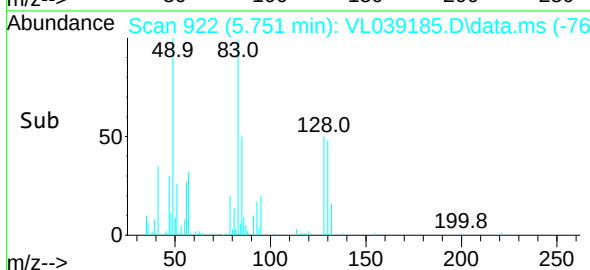
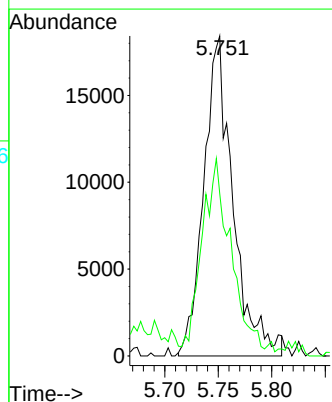
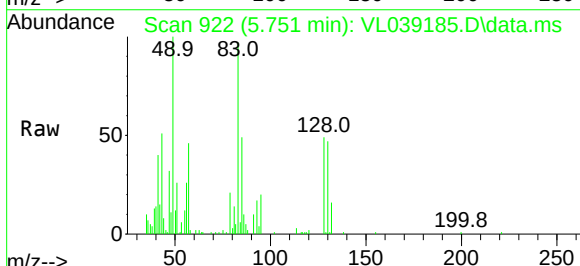
Manual Integrations
APPROVED

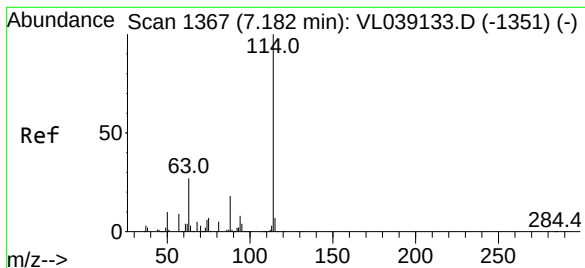
Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022



#29
Chloroform
Concen: 0.157 ppbv m
RT: 5.751 min Scan# 922
Delta R.T. -0.010 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

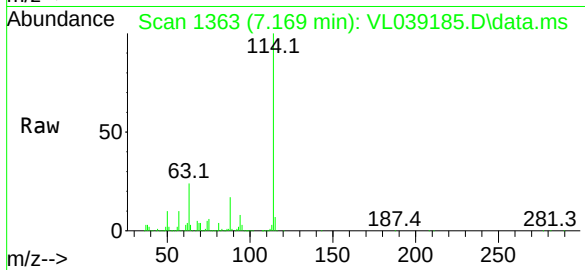
Tgt Ion: 83 Resp: 34920
Ion Ratio Lower Upper
83 100
85 50.8 52.4 78.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.169 min Scan# 114
Delta R.T. -0.013 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

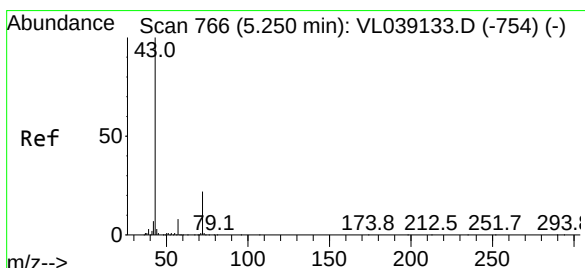
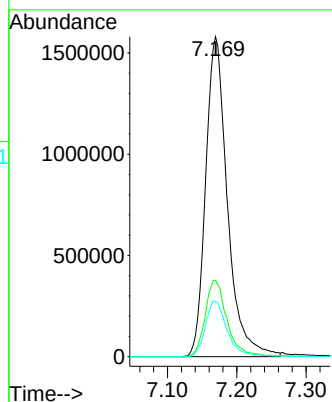
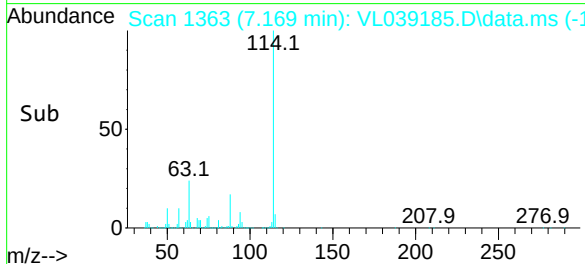
Instrument :
MSVOA_L
ClientSampleId :
SG-8DL



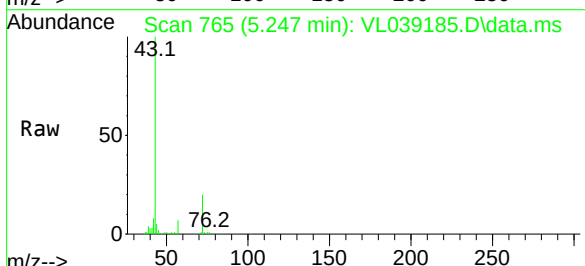
Tgt Ion:114 Resp: 343957
Ion Ratio Lower Upper
114 100
63 24.3 21.7 32.5
88 17.5 14.8 22.2

Manual Integrations
APPROVED

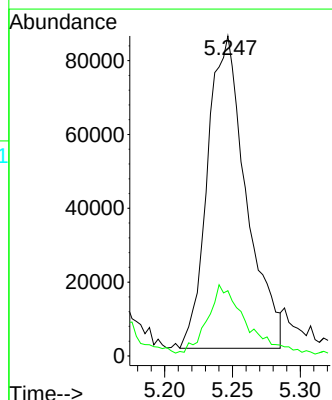
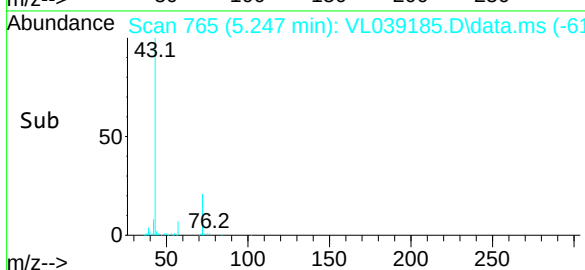
Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022

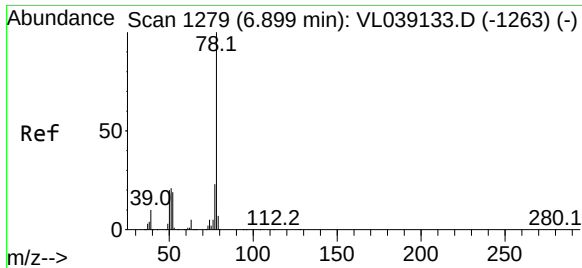


#34
2-Butanone
Concen: 0.898 ppbv
RT: 5.247 min Scan# 765
Delta R.T. -0.003 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13



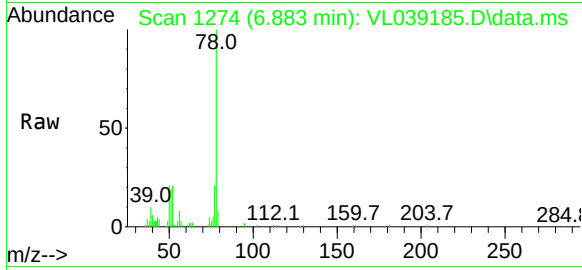
Tgt Ion: 43 Resp: 167886
Ion Ratio Lower Upper
43 100
72 24.4 18.2 27.2





#36
Benzene
Concen: 0.243 ppbv
RT: 6.883 min Scan# 1279
Delta R.T. -0.016 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

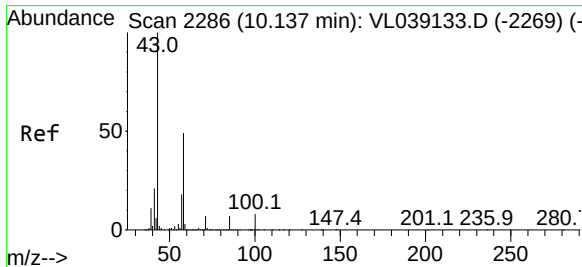
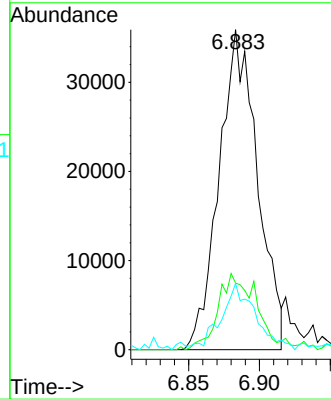
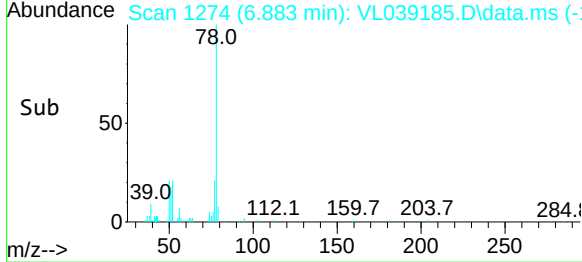
Instrument :
MSVOA_L
ClientSampleId :
SG-8DL



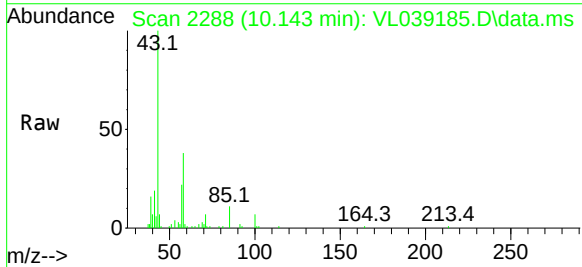
Tgt Ion: 78 Resp: 6779
Ion Ratio Lower Upper
78 100
77 19.9 18.6 27.8
50 18.3 15.8 23.8

Manual Integrations
APPROVED

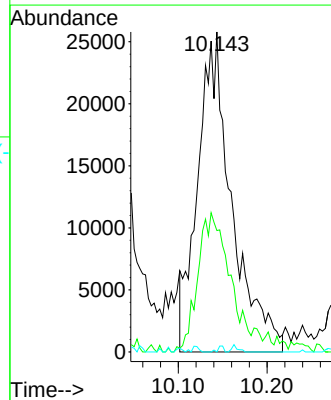
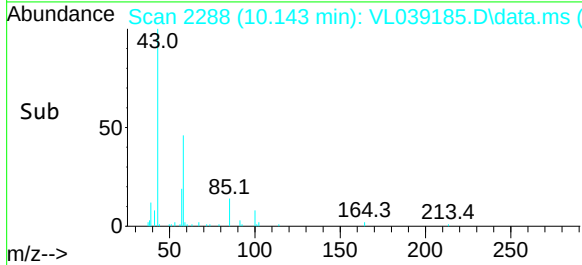
Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022

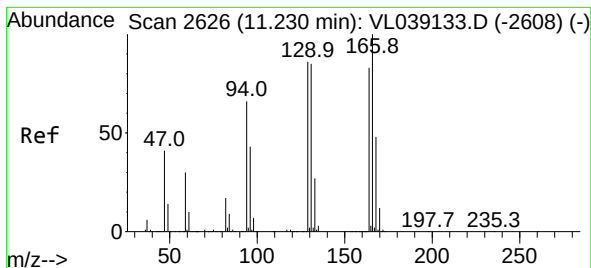


#51
2-Hexanone
Concen: 0.316 ppbv m
RT: 10.143 min Scan# 2288
Delta R.T. 0.007 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13



Tgt Ion: 43 Resp: 68720
Ion Ratio Lower Upper
43 100
58 0.0 40.0 60.0#
98 0.6 0.1 0.1#





#52

Tetrachloroethene

Concen: 1.261 ppbv

RT: 11.214 min Scan# 2181

Delta R.T. -0.016 min

Lab File: VL039185.D

Acq: 6 Jun 2022 14:13

Instrument :

MSVOA_L

ClientSampleId :

SG-8DL

Tgt Ion:164 Resp: 13747

Ion Ratio Lower Upper

164 100

166 118.8 96.3 144.5

129 99.6 82.5 123.7

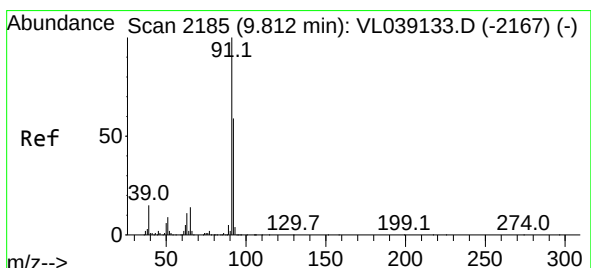
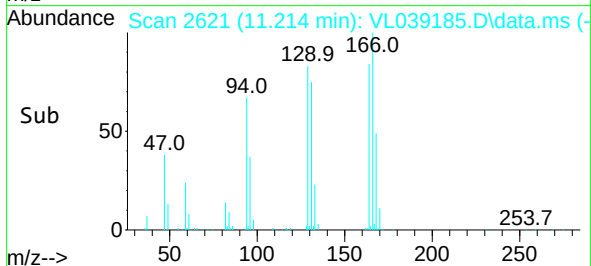
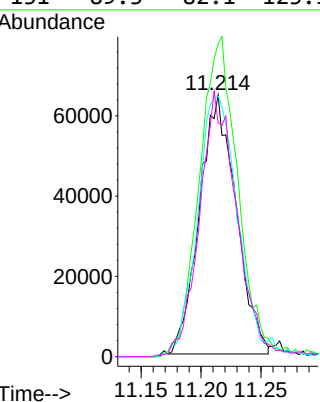
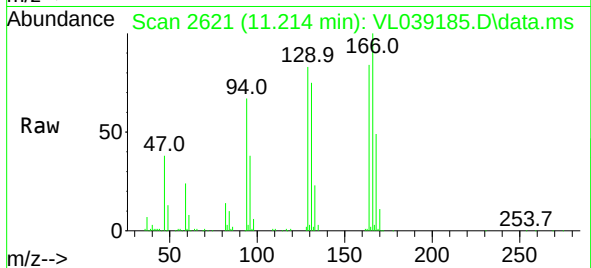
131 89.3 82.1 123.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/07/2022

Supervised By :Mahesh Dadoda 06/07/2022



#53

Toluene

Concen: 0.836 ppbv

RT: 9.799 min Scan# 2181

Delta R.T. -0.013 min

Lab File: VL039185.D

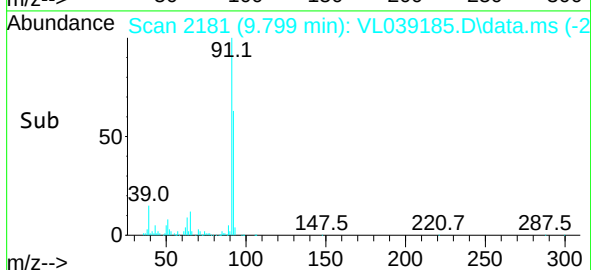
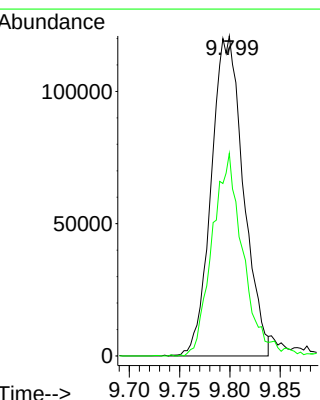
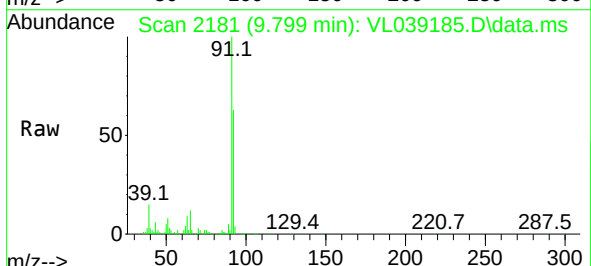
Acq: 6 Jun 2022 14:13

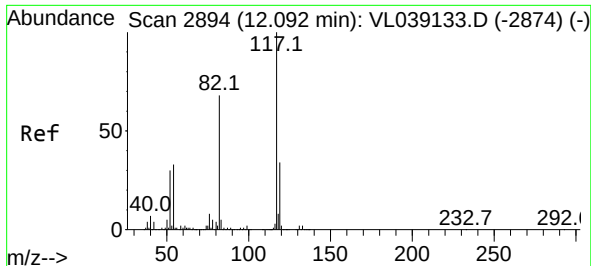
Tgt Ion: 91 Resp: 268821

Ion Ratio Lower Upper

91 100

92 61.3 48.1 72.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.073 min Scan# 2888

Delta R.T. -0.019 min

Lab File: VL039185.D

Acq: 6 Jun 2022 14:13

Instrument :

MSVOA_L

ClientSampleId :

SG-8DL

Tgt Ion: 117 Resp: 308853

Ion Ratio Lower Upper

117 100

82 67.1 55.1 82.7

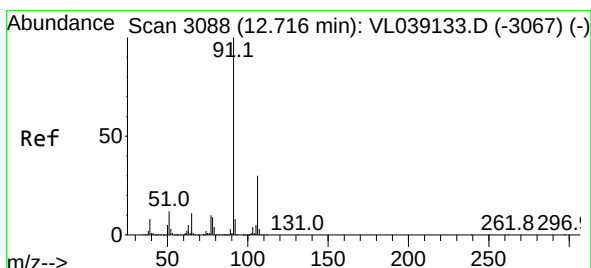
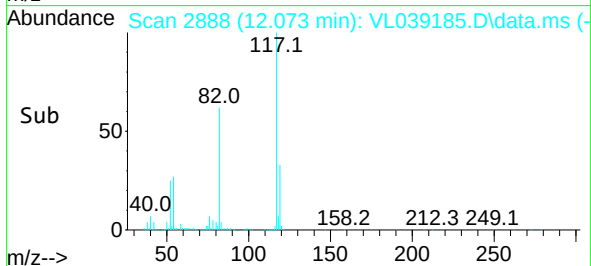
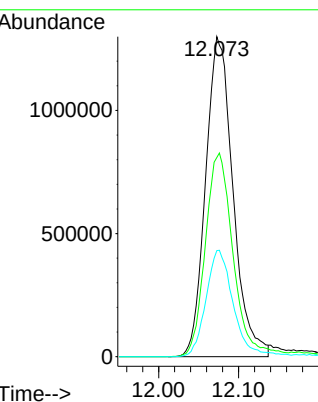
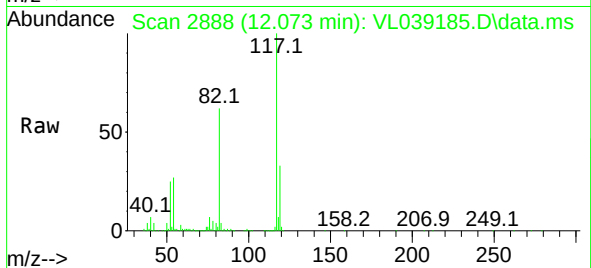
119 34.2 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/07/2022

Supervised By :Mahesh Dadoda 06/07/2022



#58

Ethyl Benzene

Concen: 0.420 ppbv

RT: 12.700 min Scan# 3083

Delta R.T. -0.016 min

Lab File: VL039185.D

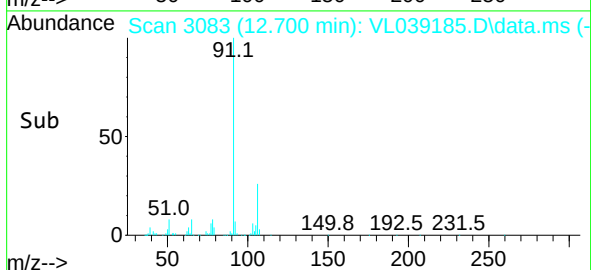
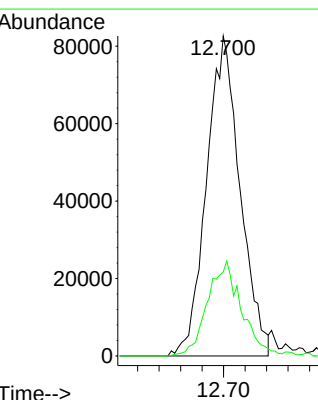
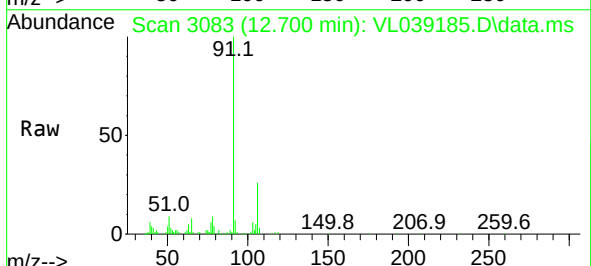
Acq: 6 Jun 2022 14:13

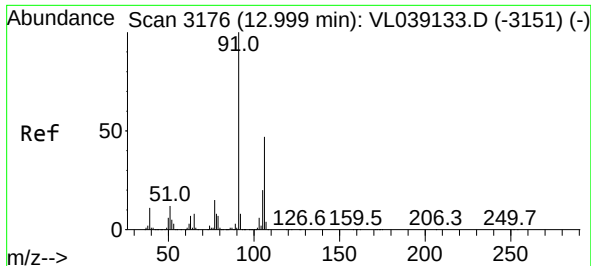
Tgt Ion: 91 Resp: 178808

Ion Ratio Lower Upper

91 100

106 26.3 24.2 36.4





#59

m/p-Xylene

Concen: 1.776 ppbv

RT: 12.954 min Scan# 3176

Delta R.T. -0.045 min

Lab File: VL039185.D

Acq: 6 Jun 2022 14:13

Instrument :

MSVOA_L

ClientSampleId :

SG-8DL

Tgt Ion: 91 Resp: 66526

Ion Ratio Lower Upper

91 100

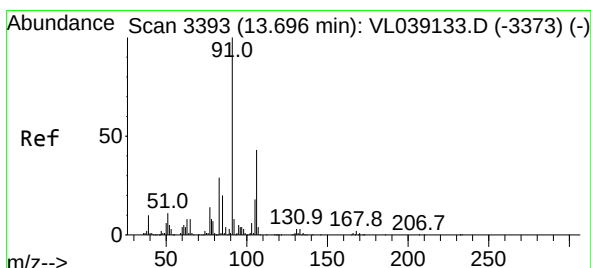
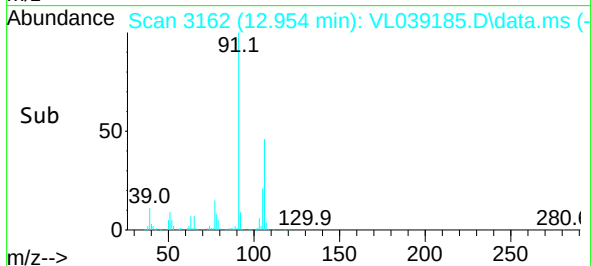
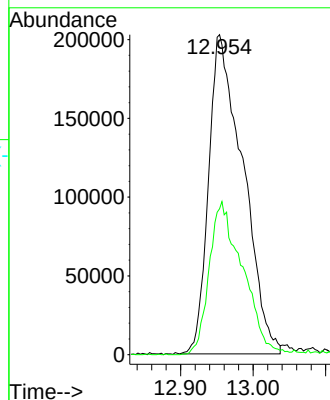
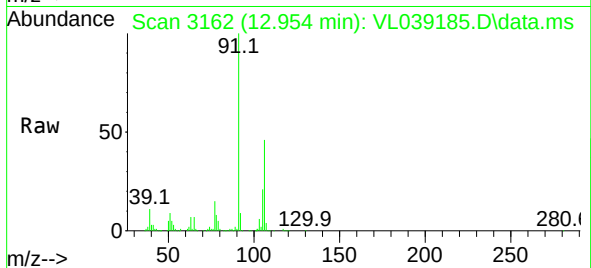
106 46.7 34.3 51.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/07/2022

Supervised By :Mahesh Dadoda 06/07/2022



#60

o-Xylene

Concen: 0.774 ppbv

RT: 13.677 min Scan# 3387

Delta R.T. -0.019 min

Lab File: VL039185.D

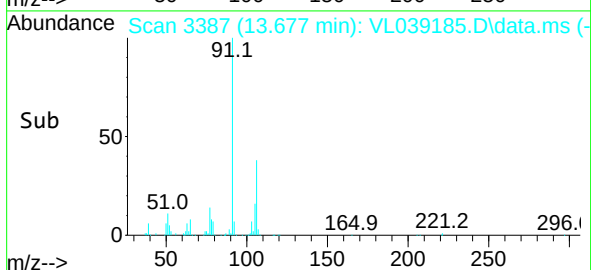
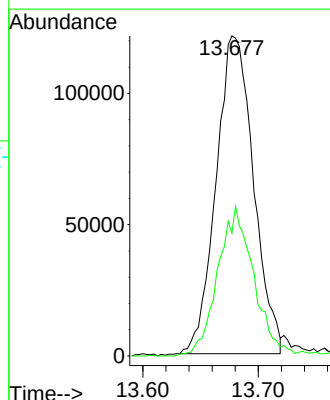
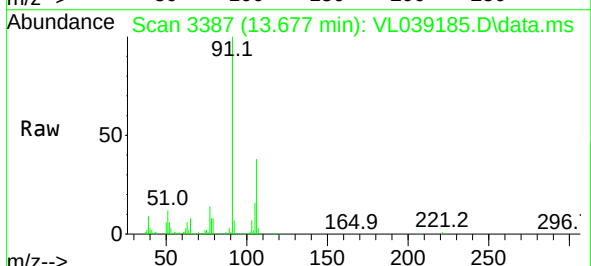
Acq: 6 Jun 2022 14:13

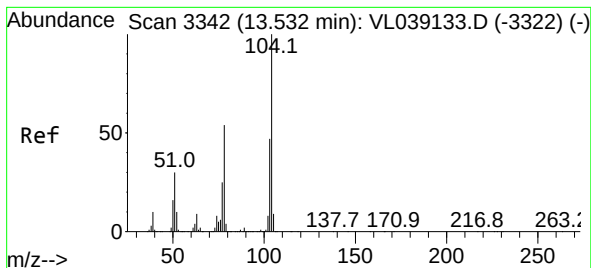
Tgt Ion: 91 Resp: 272641

Ion Ratio Lower Upper

91 100

106 45.5 22.3 66.9





#61

Styrene

Concen: 0.119 ppbv m

RT: 13.520 min Scan# 31

Delta R.T. -0.013 min

Lab File: VL039185.D

Acq: 6 Jun 2022 14:13

Instrument :

MSVOA_L

ClientSampleId :

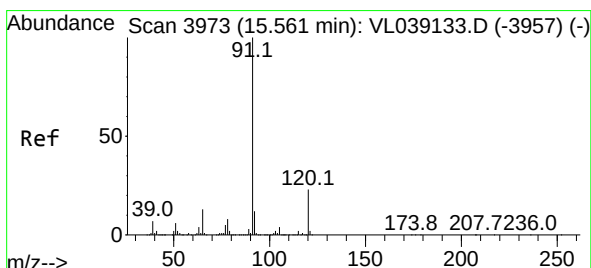
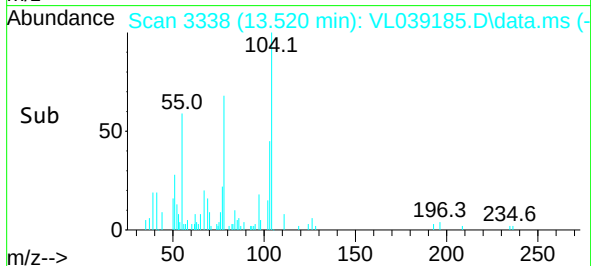
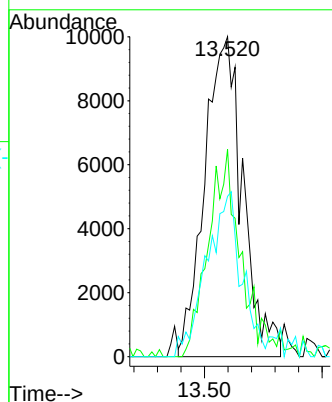
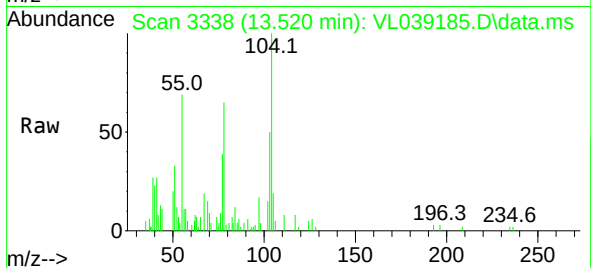
SG-8DL

Tgt Ion:104	Resp:	2252
Ion Ratio	Lower	Upper
104	100	
78	56.4	45.7 68.5
103	51.3	39.6 59.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022



#64

n-propylbenzene

Concen: 0.231 ppbv m

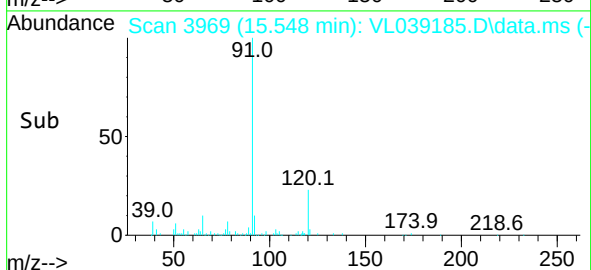
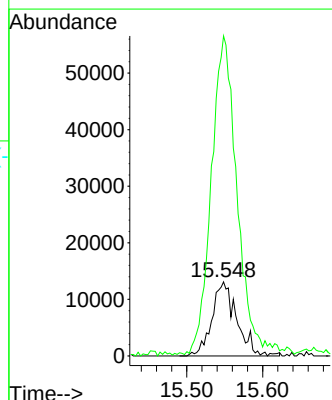
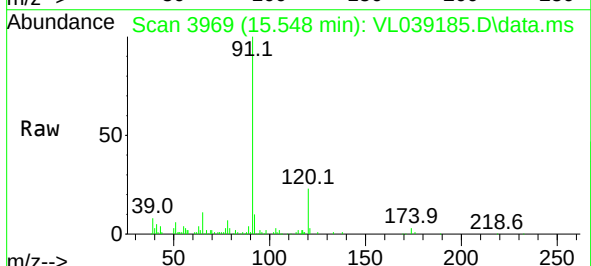
RT: 15.548 min Scan# 3969

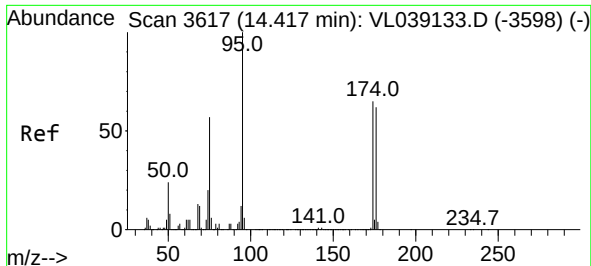
Delta R.T. -0.013 min

Lab File: VL039185.D

Acq: 6 Jun 2022 14:13

Tgt Ion:120	Resp:	29745
Ion Ratio	Lower	Upper
120	100	
91	458.8	388.4 582.6





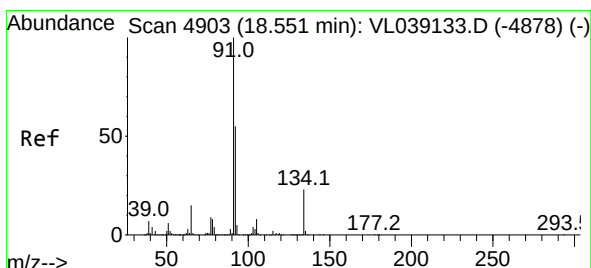
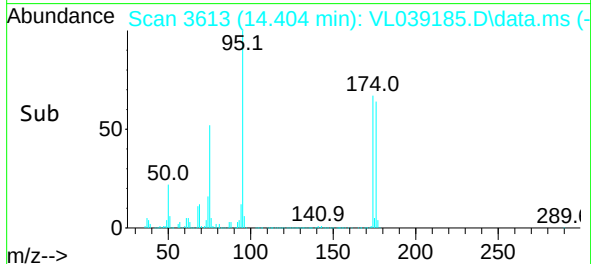
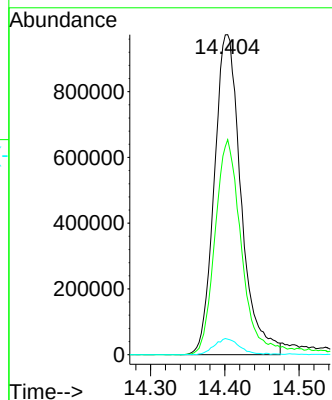
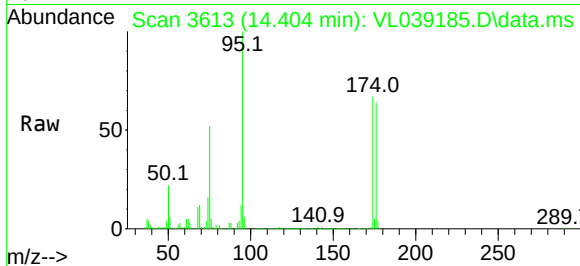
#68
1-Bromo-4-Fluorobenzene
Concen: 9.530 ppbv
RT: 14.404 min Scan# 30
Delta R.T. -0.013 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

Instrument :
MSVOA_L
ClientSampleId :
SG-8DL

Tgt Ion: 95 Resp: 243345
Ion Ratio Lower Upper
95 100
174 66.8 53.8 80.8
175 5.0 4.1 6.1

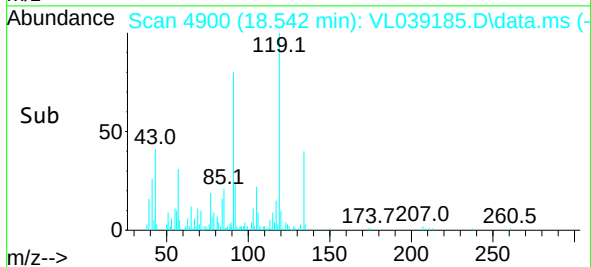
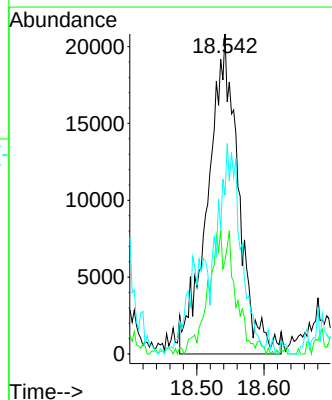
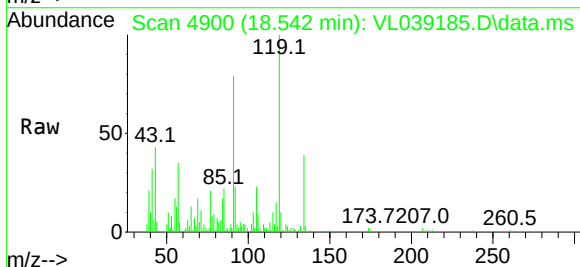
Manual Integrations
APPROVED

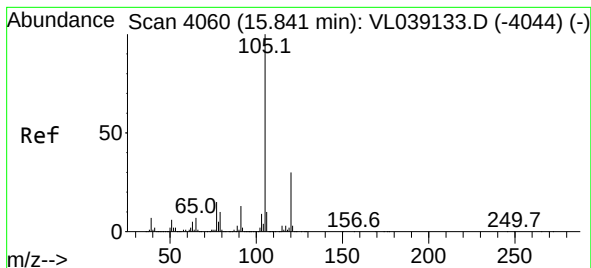
Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022



#70
n-Butylbenzene
Concen: 0.116 ppbv m
RT: 18.542 min Scan# 4900
Delta R.T. -0.010 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

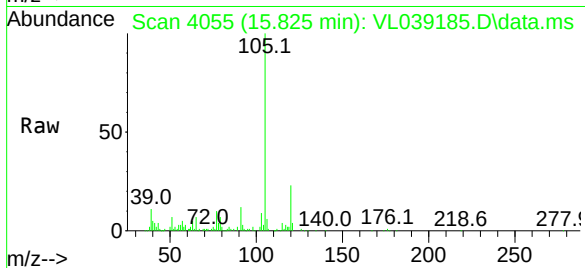
Tgt Ion: 91 Resp: 65419
Ion Ratio Lower Upper
91 100
92 34.5 43.6 65.4#
134 71.5 17.7 26.5#





#72
4-Ethyltoluene
Concen: 0.460 ppbv m
RT: 15.825 min Scan# 4055
Delta R.T. -0.016 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13

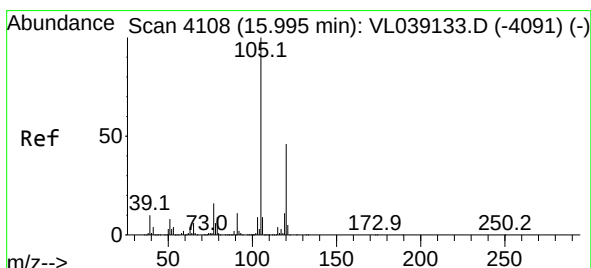
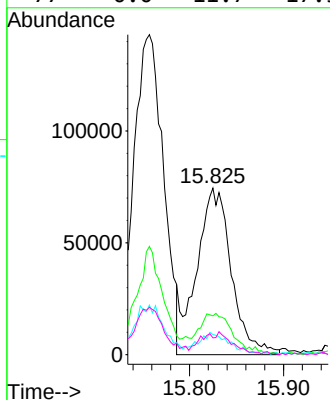
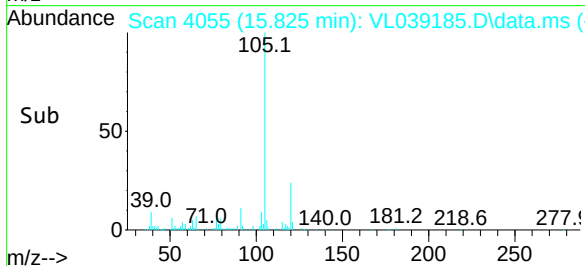
Instrument :
MSVOA_L
ClientSampleId :
SG-8DL



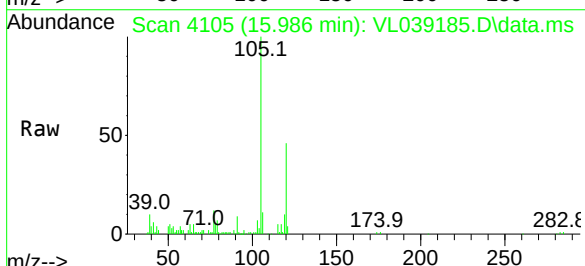
Tgt Ion:105 Resp: 189860
Ion Ratio Lower Upper
105 100
120 0.0 23.9 35.9
91 11.0 10.6 16.0
77 0.0 11.7 17.5#

Manual Integrations
APPROVED

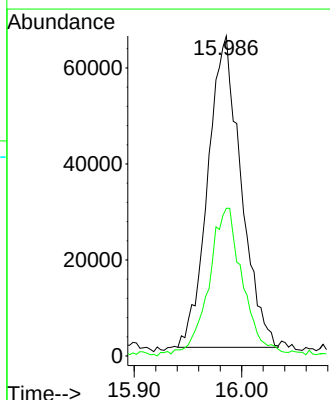
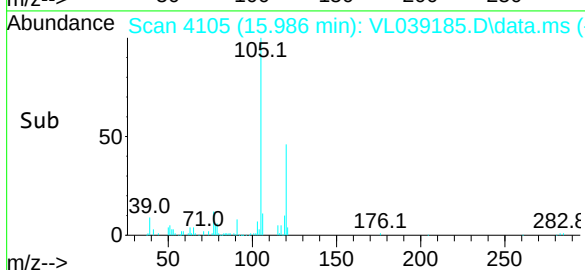
Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022

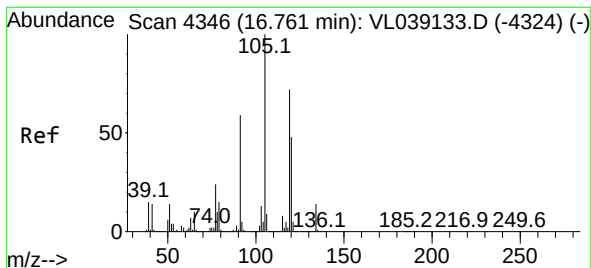


#73
1,3,5-Trimethylbenzene
Concen: 0.373 ppbv
RT: 15.986 min Scan# 4105
Delta R.T. -0.010 min
Lab File: VL039185.D
Acq: 6 Jun 2022 14:13



Tgt Ion:105 Resp: 138952
Ion Ratio Lower Upper
105 100
120 49.2 36.7 55.1





#74

1,2,4-Trimethylbenzene

Concen: 1.299 ppbv

RT: 16.744 min Scan# 41

Delta R.T. -0.016 min

Lab File: VL039185.D

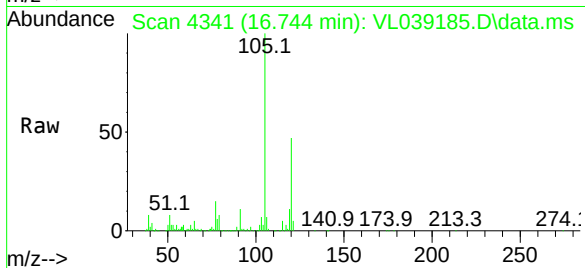
Acq: 6 Jun 2022 14:13

Instrument :

MSVOA_L

ClientSampleId :

SG-8DL

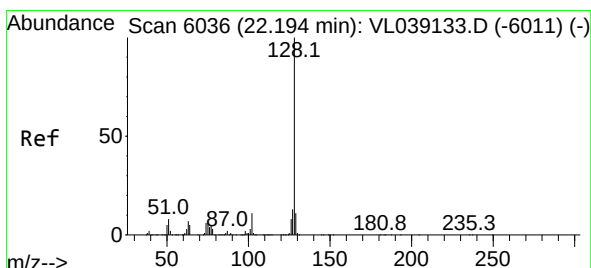
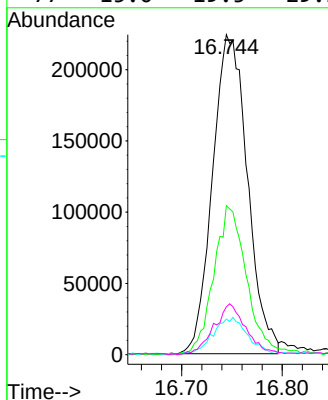
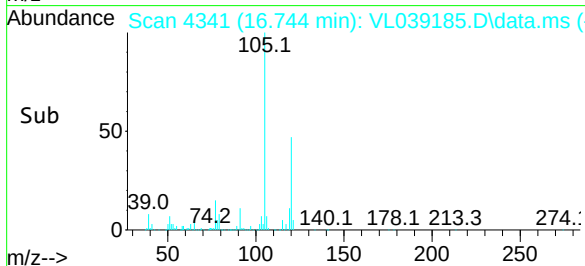


Tgt Ion:	105	Resp:	53965
Ion Ratio	Lower	Upper	
105	100		
120	46.7	38.1	57.1
91	11.0	47.4	71.0
77	15.0	19.5	29.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/07/2022
Supervised By :Mahesh Dadoda 06/07/2022



#79

Naphthalene

Concen: 0.105 ppbv m

RT: 22.185 min Scan# 6033

Delta R.T. -0.010 min

Lab File: VL039185.D

Acq: 6 Jun 2022 14:13

Tgt Ion:	128	Resp:	33615
Ion Ratio	Lower	Upper	
128	100		
127	9.3	10.4	15.6
129	15.0	9.0	13.6

