

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060822\
 Data File : VL039238.D
 Acq On : 8 Jun 2022 17:02
 Operator : SY/AP
 Sample : N3187-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2B

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/09/2022
 Supervised By :Mahesh Dadoda 06/09/2022

Quant Time: Jun 09 06:41:22 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 09 06:41:22 2022

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

Response via : Initial Calibration

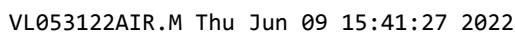
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

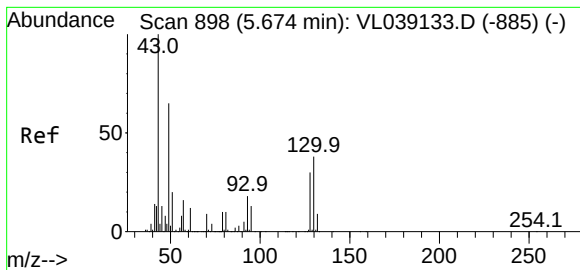
Internal Standards						
1) Bromochloromethane	5.677	49	1336701	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.182	114	3112751	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.092	117	2519475	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.420	95	2127682	10.215	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.057	85	72168	0.307	ppbv	95
3) Chlorodifluoromethane	2.996	51	1596862	9.389	ppbv	98
4) Chloromethane	3.150	50	47795m	0.547	ppbv	
9) Propene	3.028	41	223943m	3.020	ppbv	
10) Heptane	8.124	43	49683m	0.287	ppbv	
11) Trichlorofluoromethane	3.957	101	55018m	0.259	ppbv	
13) Ethanol	3.619	45	14076976	3480.599	ppbv #	100
15) Acetone	3.854	43	1250815m	8.983	ppbv	
19) Isopropyl Alcohol	3.983	45	2162098	33.106	ppbv	100
20) Methylene Chloride	4.353	84	1402856	23.908	ppbv	94
26) Hexane	5.697	57	1407443	10.205	ppbv #	46
30) Cyclohexane	7.137	84	33290m	0.287	ppbv	
34) 2-Butanone	5.256	43	121056m	0.716	ppbv	
35) Carbon Tetrachloride	7.024	117	16375m	0.072	ppbv	
36) Benzene	6.896	78	205436	0.813	ppbv	98
38) Trichloroethene	7.844	130	5192m	0.045	ppbv	
44) 2,2,4-Trimethylpentane	7.880	57	245836	0.556	ppbv #	87
52) Tetrachloroethene	11.230	164	7529m	0.076	ppbv	
53) Toluene	9.812	91	514799	1.769	ppbv	98
58) Ethyl Benzene	12.719	91	95568m	0.275	ppbv	
59) m/p-Xylene	12.973	91	271314	0.888	ppbv	99
60) o-Xylene	13.696	91	108615	0.378	ppbv	99
61) Styrene	13.529	104	25372m	0.165	ppbv	
69) p-Isopropyltoluene	17.661	119	45314m	0.101	ppbv	
72) 4-Ethyltoluene	15.844	105	46335m	0.138	ppbv	
73) 1,3,5-Trimethylbenzene	16.005	105	37701m	0.124	ppbv	
74) 1,2,4-Trimethylbenzene	16.760	105	111980	0.331	ppbv #	60

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

Manual Integrations APPROVED

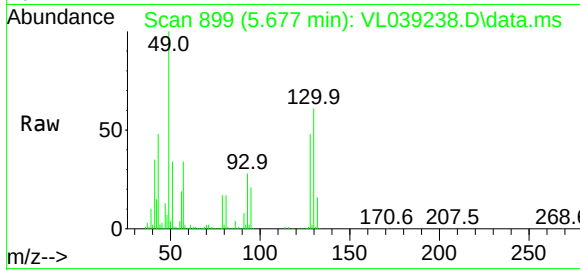
Quant Time: Jun 09 06:41:22 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun
QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.677 min Scan# 89
Delta R.T. 0.003 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

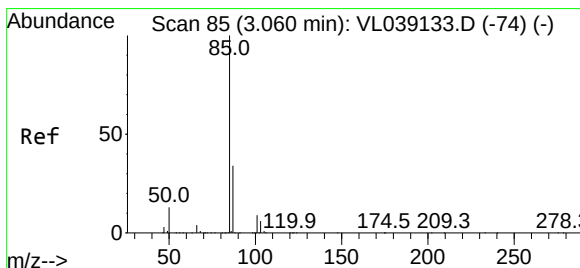
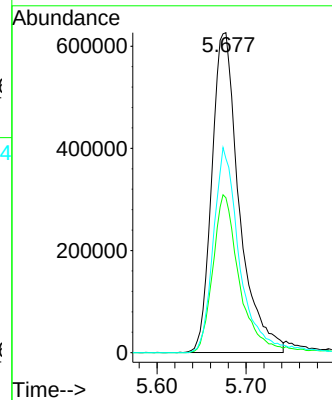
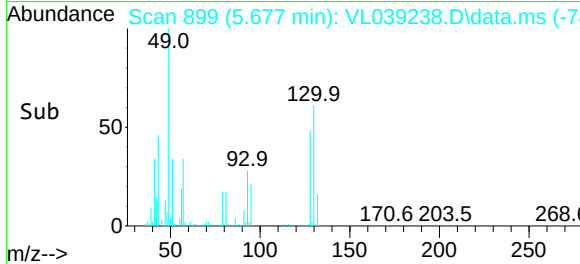
Instrument :
MSVOA_L
ClientSampleId :
IA-2B



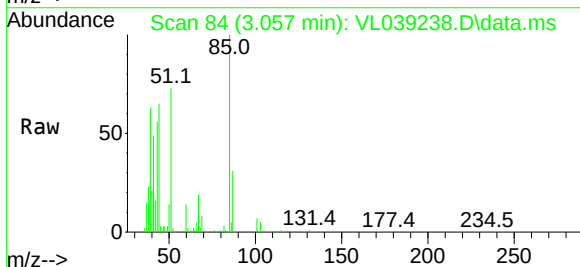
Tgt Ion: 49 Resp: 133670
Ion Ratio Lower Upper
49 100
128 49.0 24.7 74.1
130 62.3 31.4 94.0

Manual Integrations
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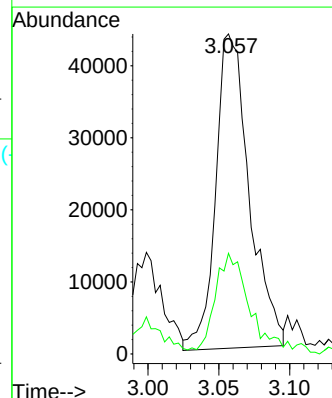
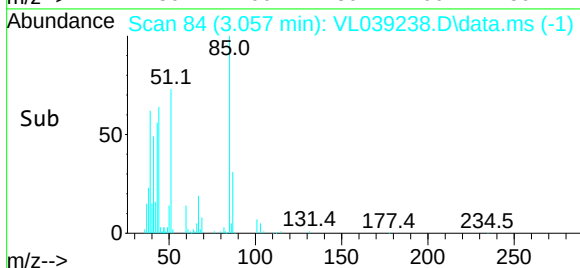
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022

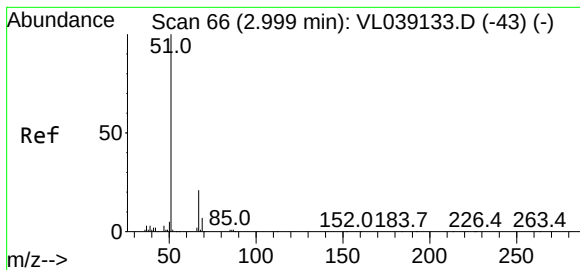


#2
Dichlorodifluoromethane
Concen: 0.307 ppbv
RT: 3.057 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02



Tgt Ion: 85 Resp: 72168
Ion Ratio Lower Upper
85 100
87 31.0 26.9 40.3





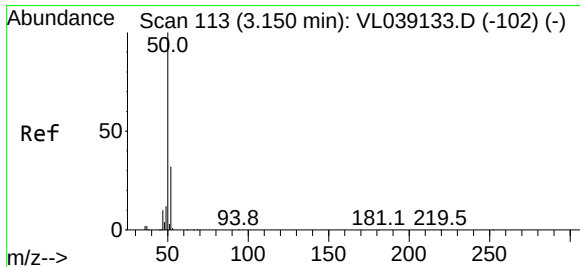
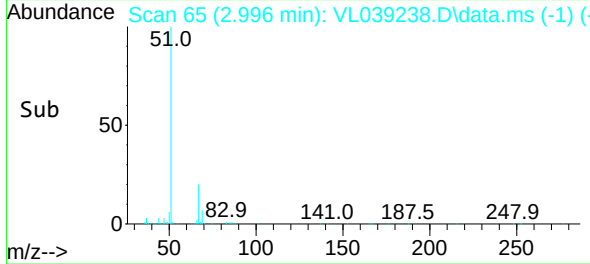
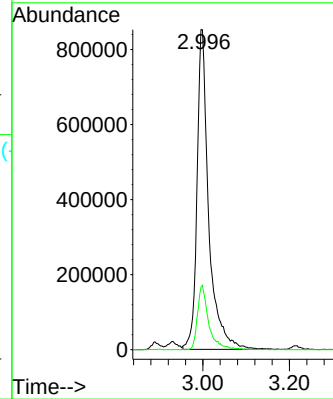
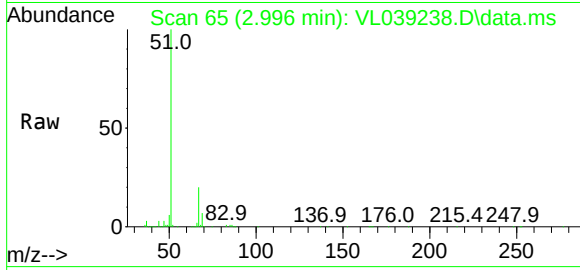
#3
Chlorodifluoromethane
Concen: 9.389 ppbv
RT: 2.996 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

Instrument :
MSVOA_L
ClientSampleId :
IA-2B

Tgt Ion: 51 Resp: 159686
Ion Ratio Lower Upper
51 100
67 19.3 16.2 24.4

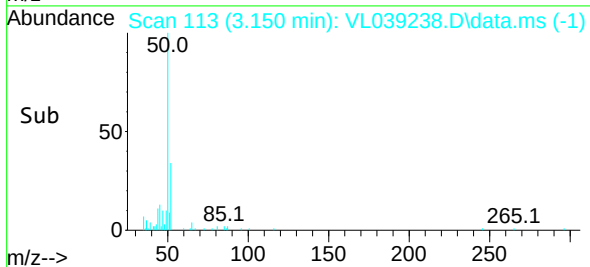
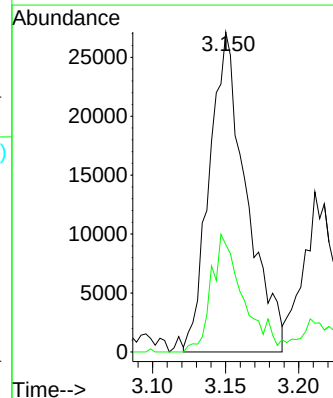
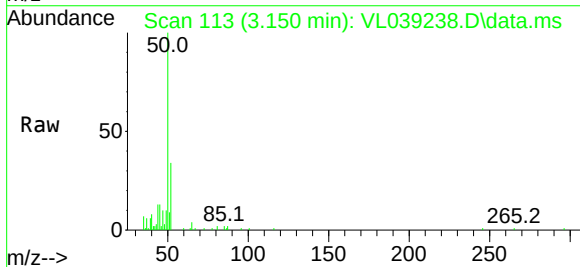
Manual Integrations
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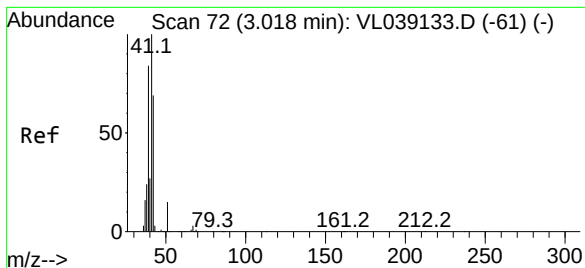
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022



#4
Chloromethane
Concen: 0.547 ppbv m
RT: 3.150 min Scan# 113
Delta R.T. -0.000 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

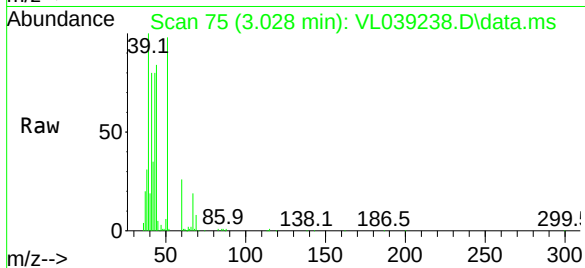
Tgt Ion: 50 Resp: 47795
Ion Ratio Lower Upper
50 100
52 33.6 25.9 38.9





#9
 Propene
 Concen: 3.020 ppbv m
 RT: 3.028 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL039238.D
 Acq: 8 Jun 2022 17:02

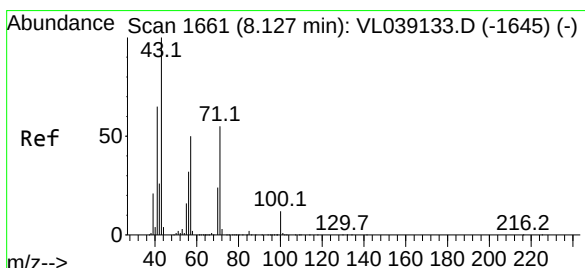
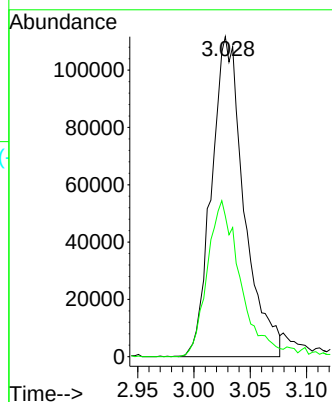
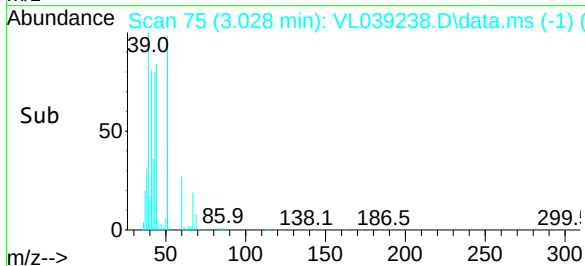
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2B



Tgt Ion: 41 Resp: 22394
 Ion Ratio Lower Upper
 41 100
 42 279.4 55.4 83.2

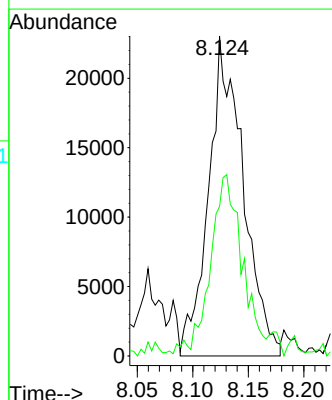
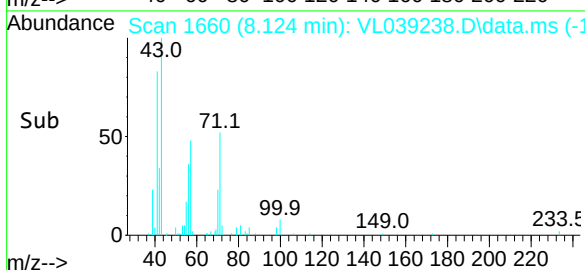
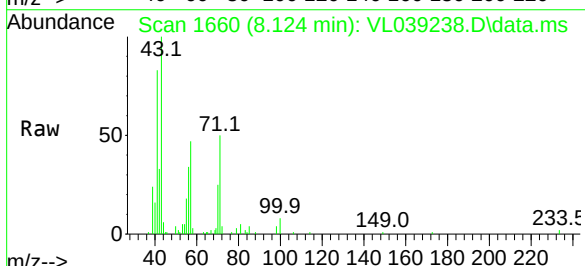
Manual Integrations
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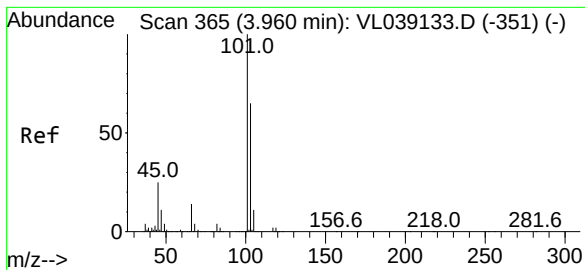
Reviewed By :Semsettin Yesilyurt 06/09/2022
 Supervised By :Mahesh Dadoda 06/09/2022



#10
 Heptane
 Concen: 0.287 ppbv m
 RT: 8.124 min Scan# 1660
 Delta R.T. -0.003 min
 Lab File: VL039238.D
 Acq: 8 Jun 2022 17:02

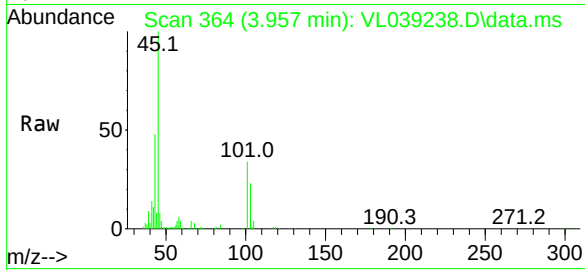
Tgt Ion: 43 Resp: 49683
 Ion Ratio Lower Upper
 43 100
 57 55.0 41.4 62.2





#11
Trichlorofluoromethane
Concen: 0.259 ppbv m
RT: 3.957 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

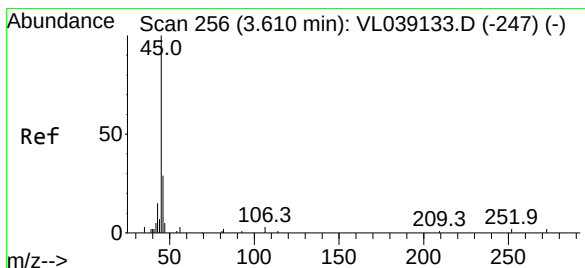
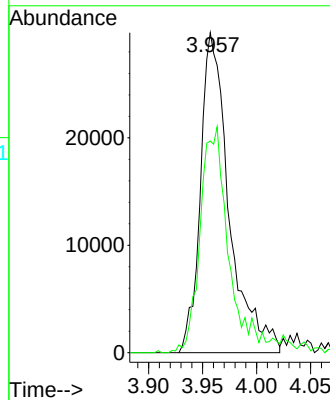
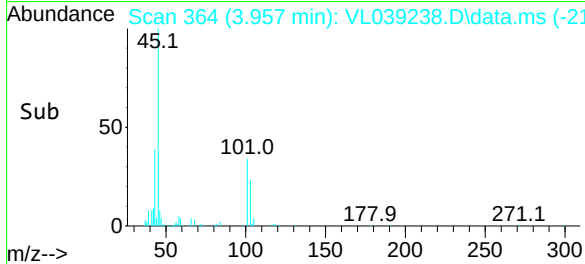
Instrument :
MSVOA_L
ClientSampleId :
IA-2B



Tgt Ion:101 Resp: 55018
Ion Ratio Lower Upper
101 100
103 66.1 51.7 77.5

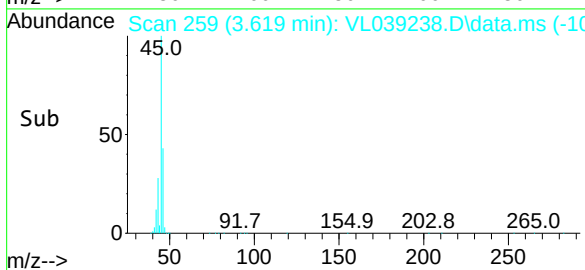
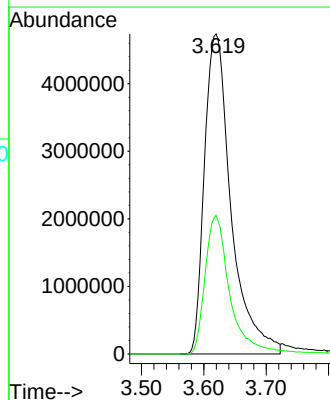
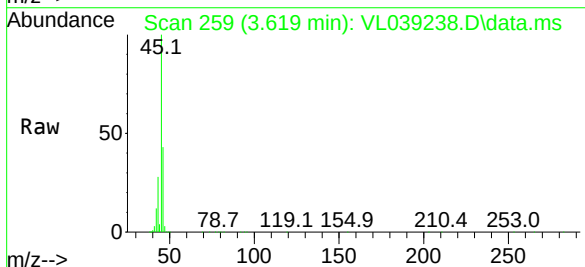
Manual Integrations
APPROVED

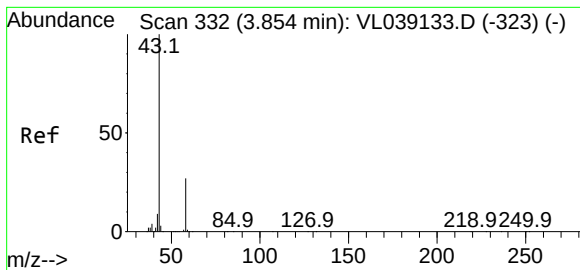
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022



#13
Ethanol
Concen: 3480.599 ppbv
RT: 3.619 min Scan# 259
Delta R.T. 0.010 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

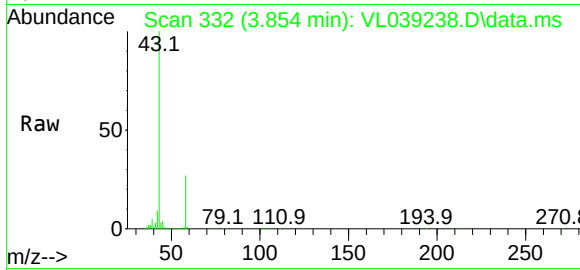
Tgt Ion: 45 Resp:14076976
Ion Ratio Lower Upper
45 100
46 41.1 0.0 0.0#





#15
Acetone
Concen: 8.983 ppbv m
RT: 3.854 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

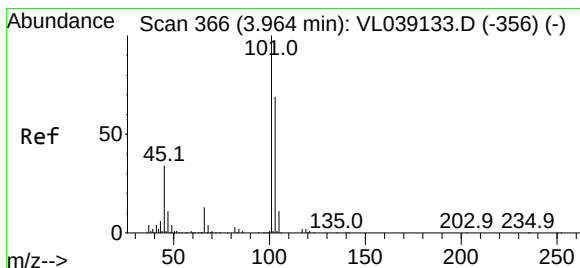
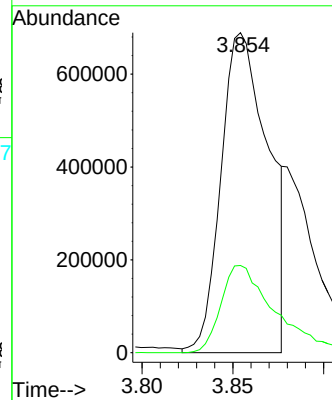
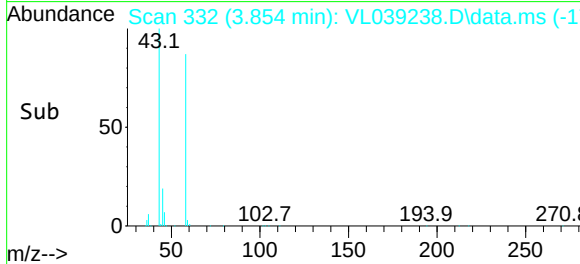
Instrument : MSVOA_L
ClientSampleId : IA-2B



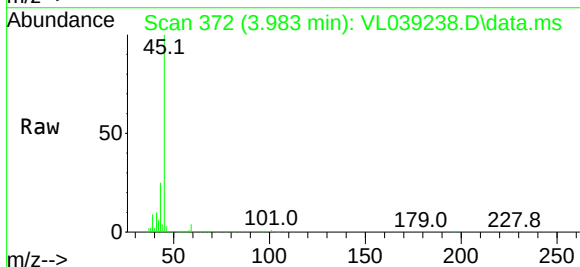
Tgt Ion: 43 Resp: 1250815
Ion Ratio Lower Upper
43 100
58 32.7 22.5 33.7

Manual Integrations
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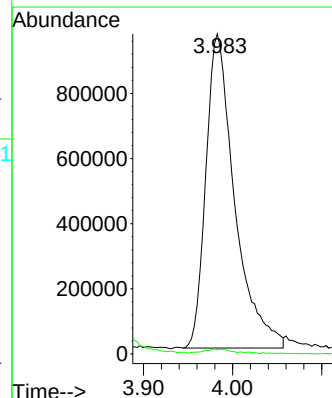
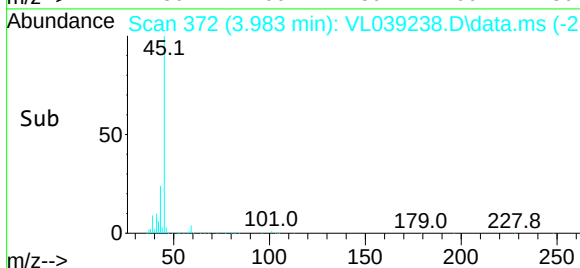
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022

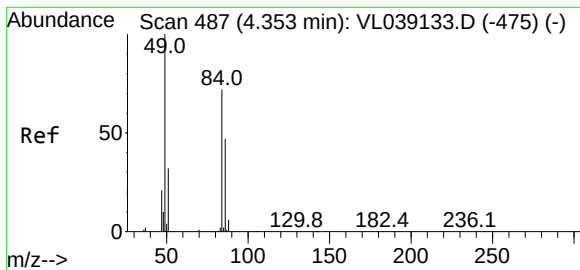


#19
Isopropyl Alcohol
Concen: 33.106 ppbv
RT: 3.983 min Scan# 372
Delta R.T. 0.019 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02



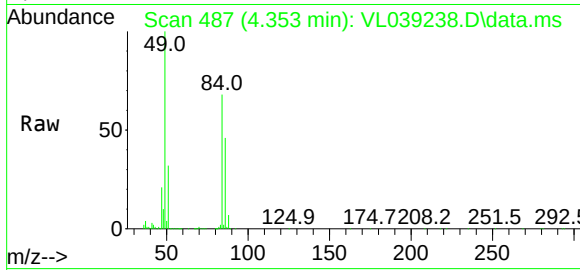
Tgt Ion: 45 Resp: 2162098
Ion Ratio Lower Upper
45 100
58 2.2 1.8 2.8





#20
Methylene Chloride
Concen: 23.908 ppbv
RT: 4.353 min Scan# 487
Delta R.T. -0.000 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

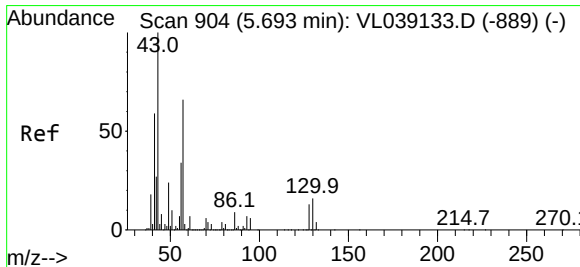
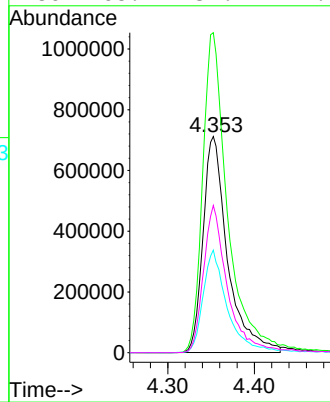
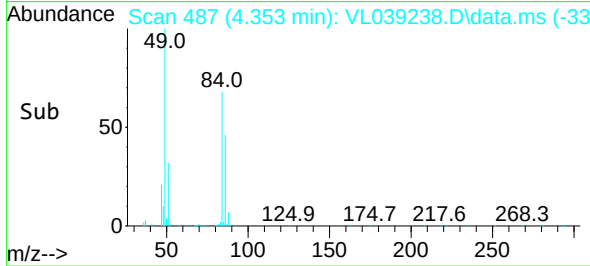
Instrument :
MSVOA_L
ClientSampleId :
IA-2B



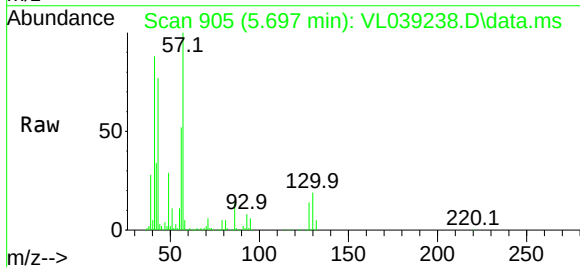
Tgt Ion: 84 Resp: 1402850
Ion Ratio Lower Upper
84 100
49 147.9 111.1 166.7
51 47.4 35.3 52.9
86 68.1 51.9 77.9

Manual Integrations
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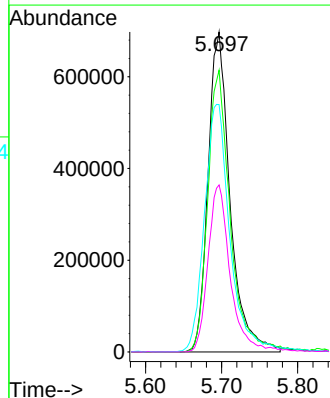
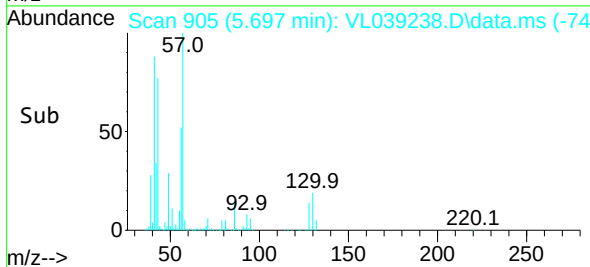
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022

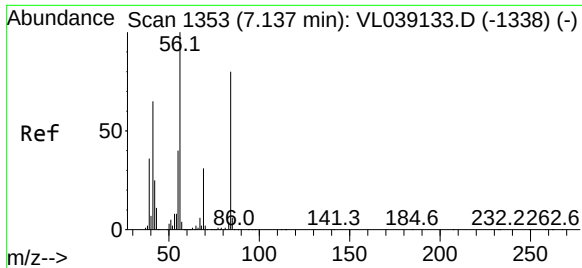


#26
Hexane
Concen: 10.205 ppbv
RT: 5.697 min Scan# 905
Delta R.T. 0.003 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02



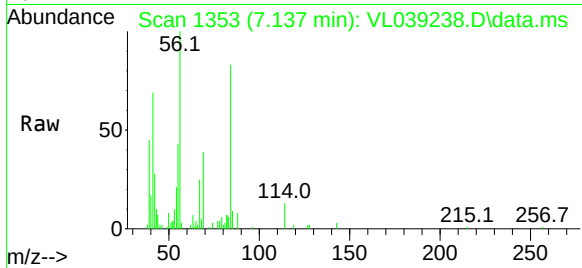
Tgt Ion: 57 Resp: 1407443
Ion Ratio Lower Upper
57 100
41 91.5 72.4 108.6
43 90.3 187.0 280.6#
56 53.1 41.8 62.6





#30
Cyclohexane
Concen: 0.287 ppbv m
RT: 7.137 min Scan# 1353
Delta R.T. -0.000 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

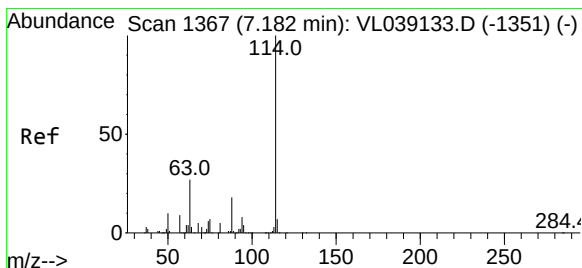
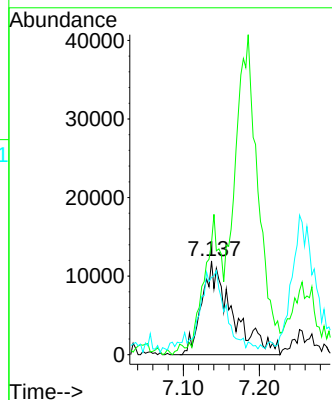
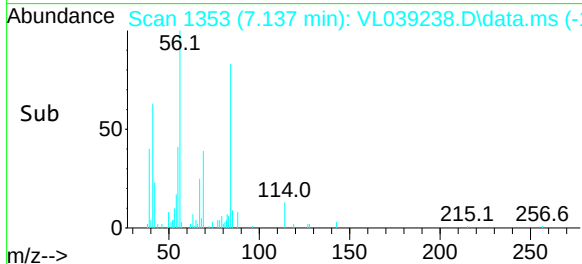
Instrument :
MSVOA_L
ClientSampleId :
IA-2B



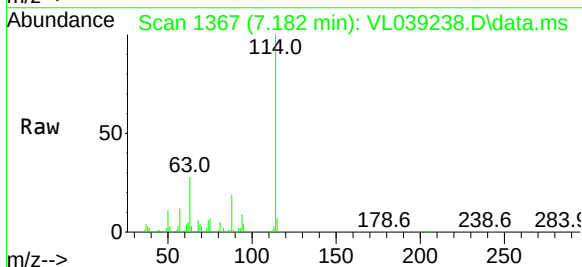
Tgt Ion: 84 Resp: 33290
Ion Ratio Lower Upper
84 100
56 0.0 110.6 165.8
41 79.2 68.9 103.3

Manual Integrations
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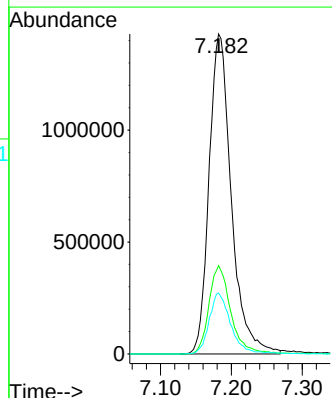
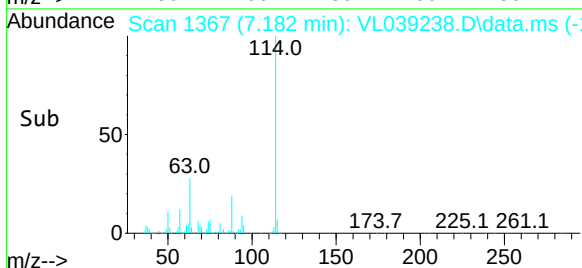
Reviewed By :Semsettin Yesilyurt 06/09/2022
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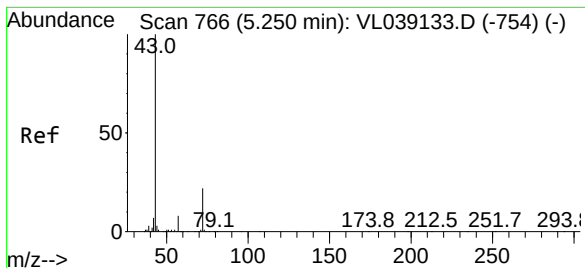


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.182 min Scan# 1367
Delta R.T. -0.000 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02



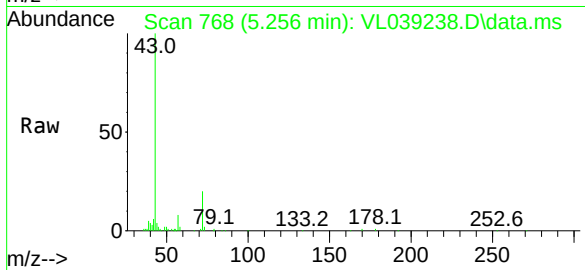
Tgt Ion:114 Resp: 3112751
Ion Ratio Lower Upper
114 100
63 27.5 21.7 32.5
88 18.7 14.8 22.2





#34
2-Butanone
Concen: 0.716 ppbv m
RT: 5.256 min Scan# 766
Delta R.T. 0.006 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

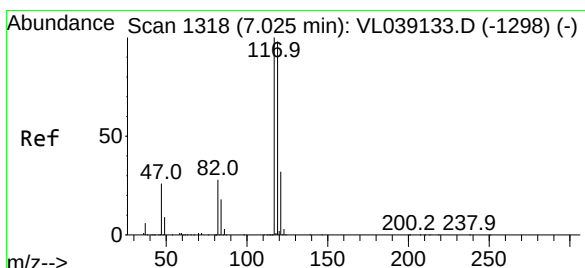
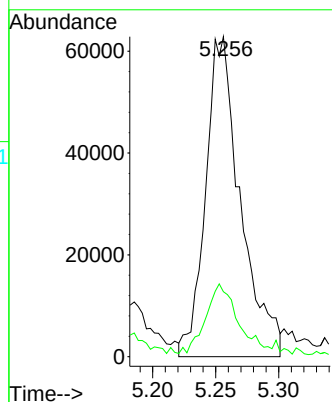
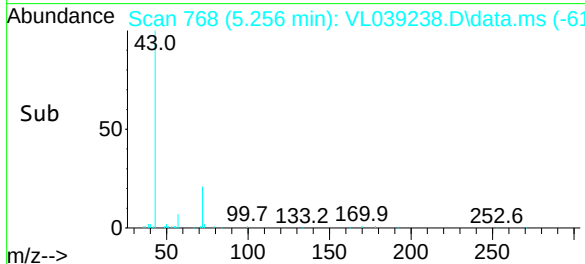
Instrument :
MSVOA_L
ClientSampleId :
IA-2B



Tgt Ion: 43 Resp: 121056
Ion Ratio Lower Upper
43 100
72 24.4 18.2 27.2

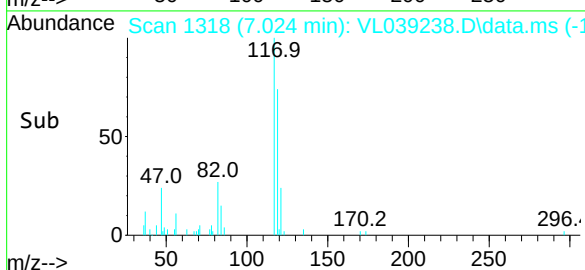
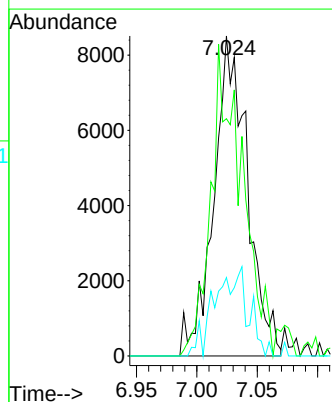
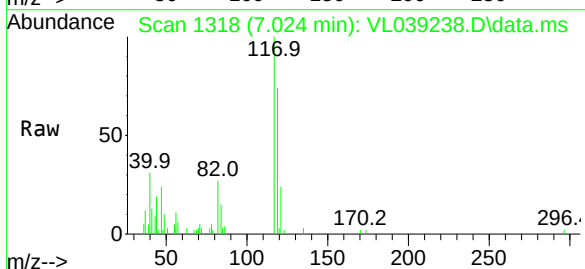
Manual Integrations
APPROVED

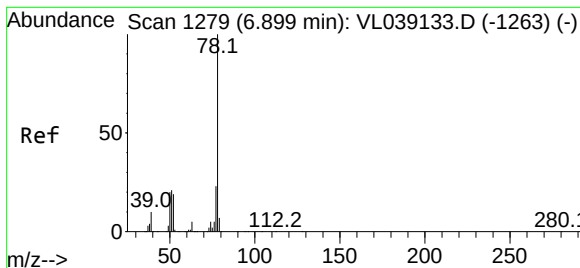
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022



#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 7.024 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

Tgt Ion:117 Resp: 16375
Ion Ratio Lower Upper
117 100
119 74.2 78.6 118.0#
121 24.5 25.4 38.0#





#36

Benzene

Concen: 0.813 ppbv

RT: 6.896 min Scan# 1278

Delta R.T. -0.003 min

Lab File: VL039238.D

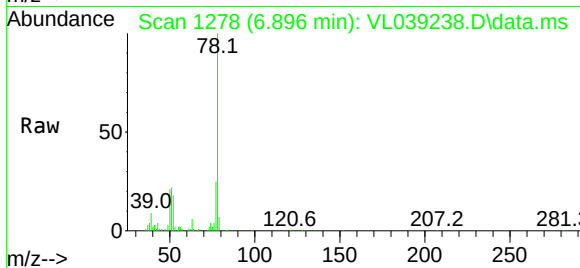
Acq: 8 Jun 2022 17:02

Instrument :

MSVOA_L

ClientSampleId :

IA-2B



Tgt Ion: 78 Resp: 205430

Ion Ratio Lower Upper

78 100

77 24.4 18.6 27.8

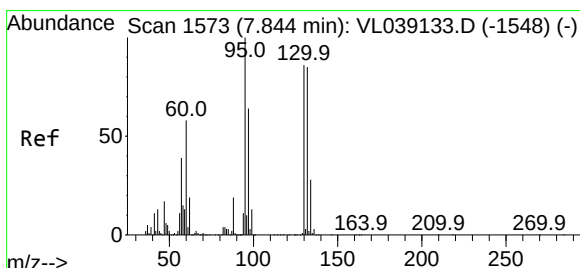
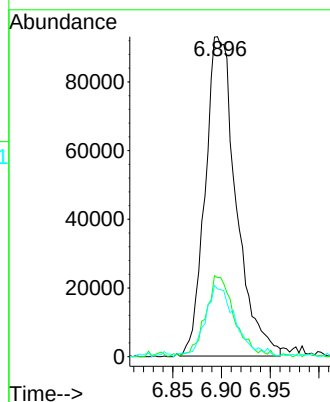
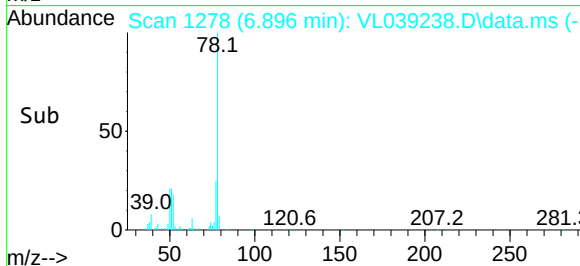
50 20.4 15.8 23.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/09/2022

Supervised By :Mahesh Dadoda 06/09/2022



#38

Trichloroethene

Concen: 0.045 ppbv m

RT: 7.844 min Scan# 1573

Delta R.T. -0.000 min

Lab File: VL039238.D

Acq: 8 Jun 2022 17:02

Tgt Ion:130 Resp: 5192

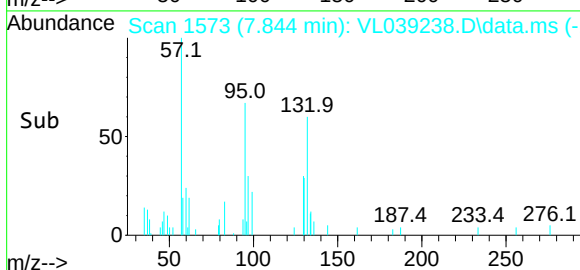
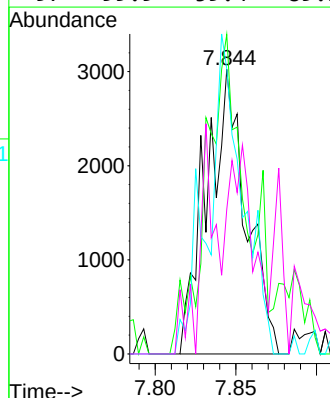
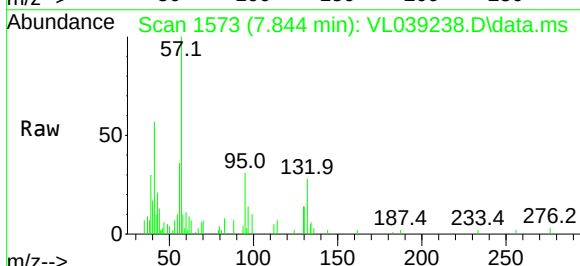
Ion Ratio Lower Upper

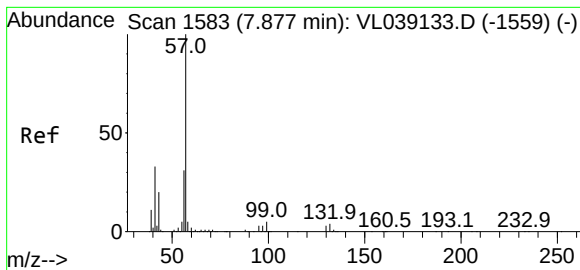
130 100

95 220.9 93.3 139.9#

132 197.1 79.0 118.4#

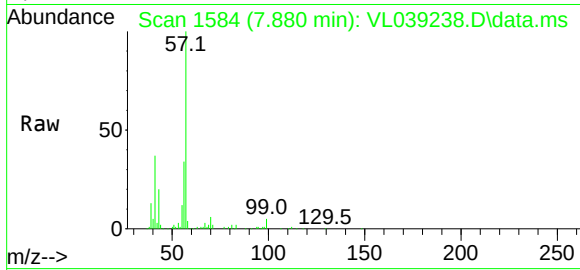
97 99.9 59.4 89.2#





#44
2,2,4-Trimethylpentane
Concen: 0.556 ppbv
RT: 7.880 min Scan# 1583
Delta R.T. 0.003 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

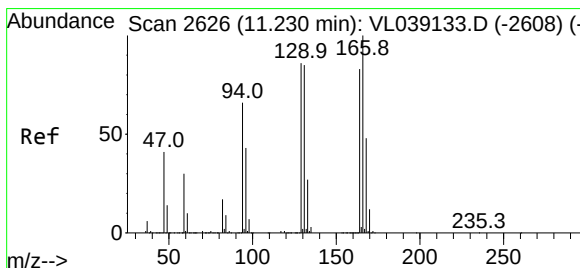
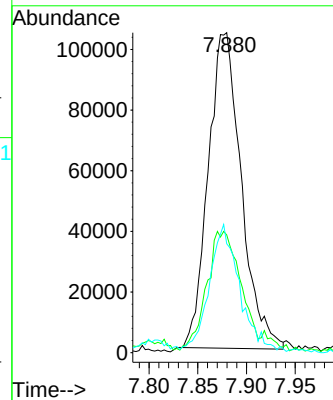
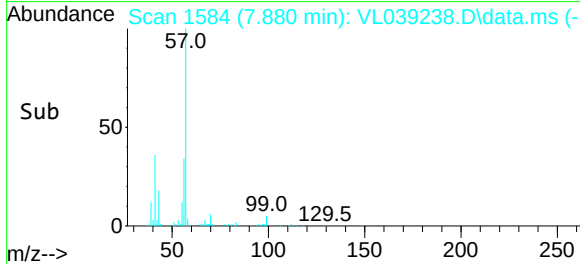
Instrument :
MSVOA_L
ClientSampleId :
IA-2B



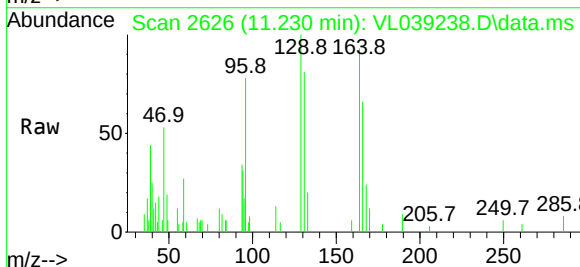
Tgt Ion: 57 Resp: 245836
Ion Ratio Lower Upper
57 100
41 40.5 26.2 39.4
56 38.1 24.7 37.1

Manual Integrations
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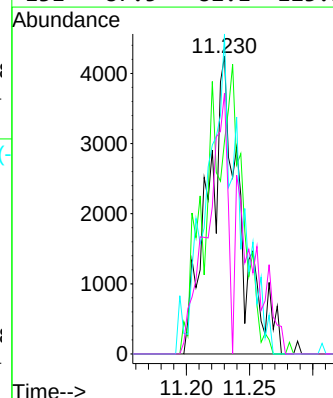
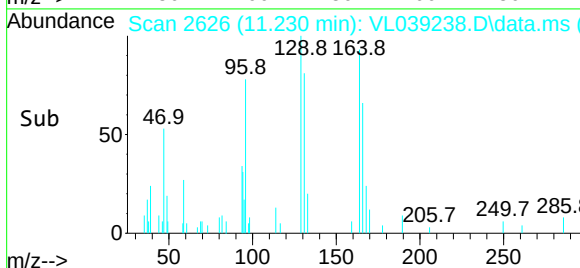
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022

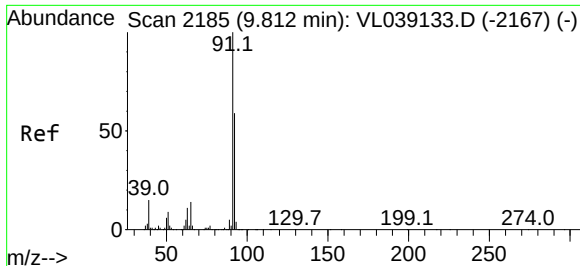


#52
Tetrachloroethene
Concen: 0.076 ppbv m
RT: 11.230 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02



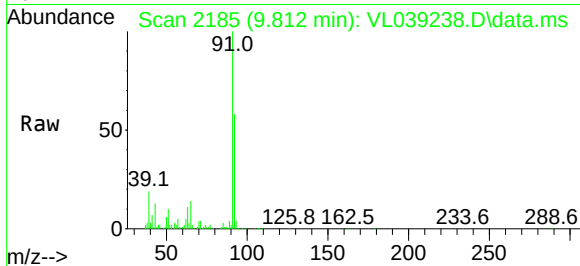
Tgt Ion:164 Resp: 7529
Ion Ratio Lower Upper
164 100
166 71.4 96.3 144.5
129 107.4 82.5 123.7
131 87.5 82.1 123.1





#53
Toluene
Concen: 1.769 ppbv
RT: 9.812 min Scan# 2185
Delta R.T. -0.000 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

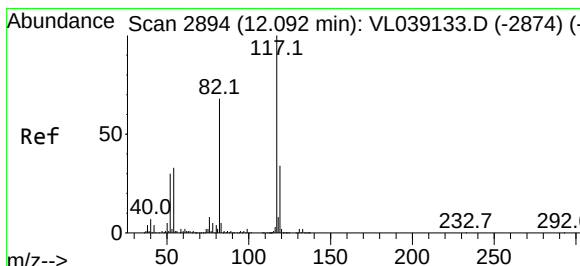
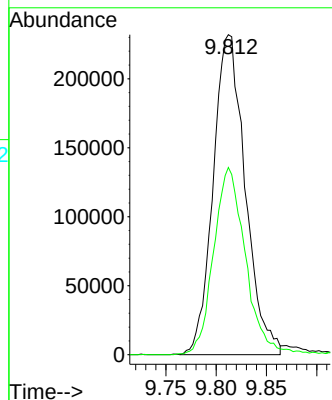
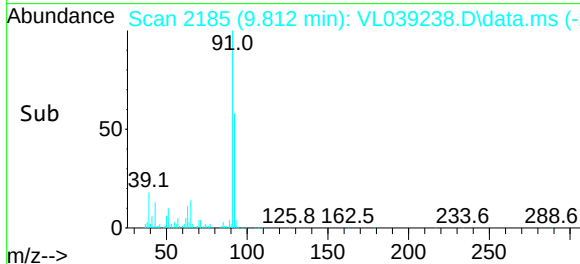
Instrument :
MSVOA_L
ClientSampleId :
IA-2B



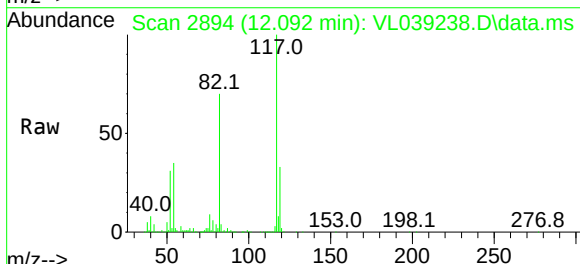
Tgt Ion: 91 Resp: 514799
Ion Ratio Lower Upper
91 100
92 58.3 48.1 72.1

Manual Integrations
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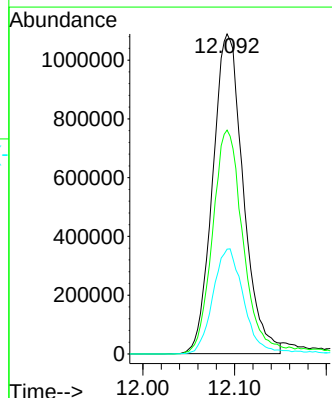
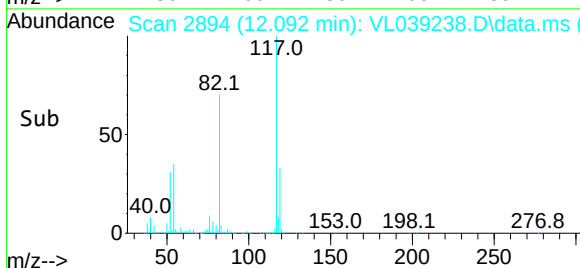
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022

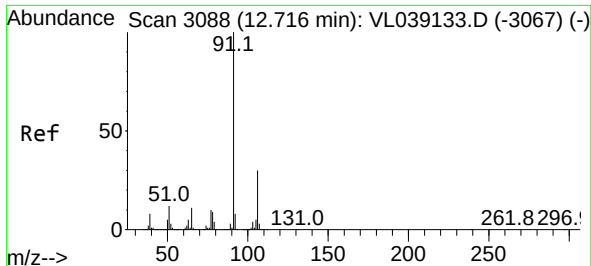


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.092 min Scan# 2894
Delta R.T. -0.000 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02



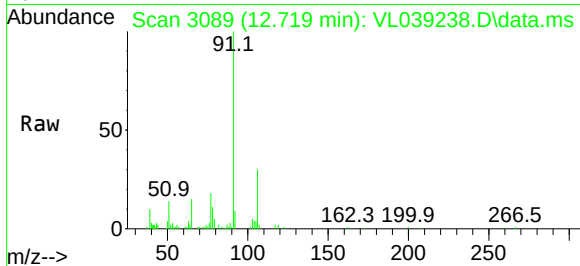
Tgt Ion:117 Resp: 2519475
Ion Ratio Lower Upper
117 100
82 73.3 55.1 82.7
119 34.4 24.7 37.1





#58
Ethyl Benzene
Concen: 0.275 ppbv m
RT: 12.719 min Scan# 3088
Delta R.T. 0.003 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

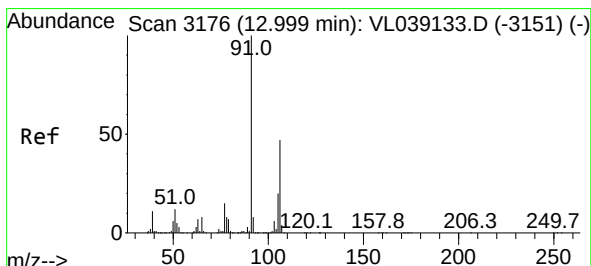
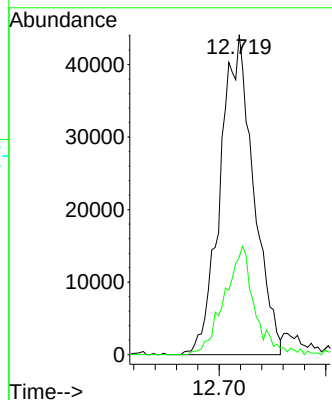
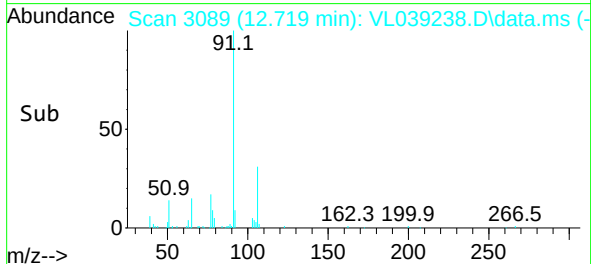
Instrument :
MSVOA_L
ClientSampleId :
IA-2B



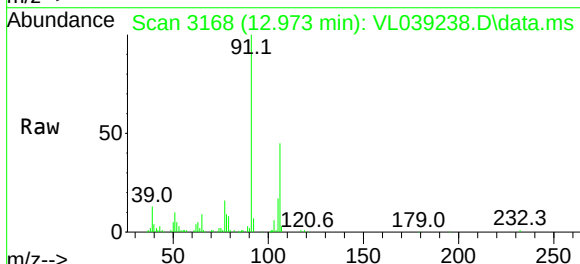
Tgt Ion: 91 Resp: 9556
Ion Ratio Lower Upper
91 100
106 30.5 24.2 36.4

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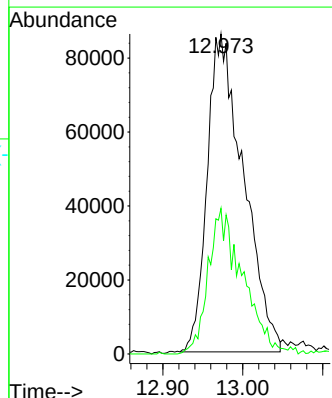
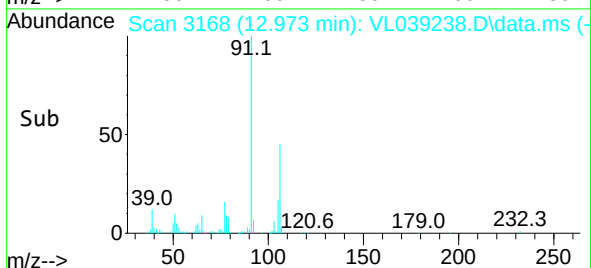
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022

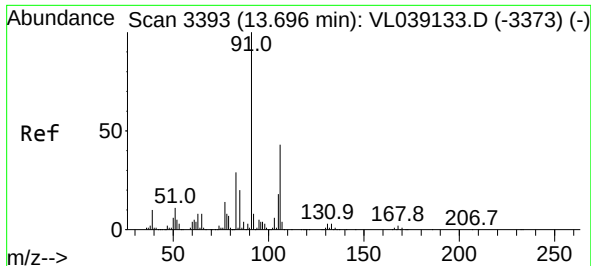


#59
m/p-Xylene
Concen: 0.888 ppbv
RT: 12.973 min Scan# 3168
Delta R.T. -0.026 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02



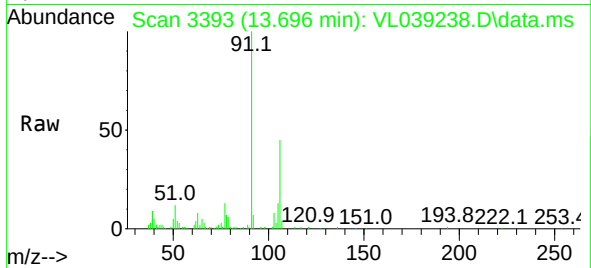
Tgt Ion: 91 Resp: 271314
Ion Ratio Lower Upper
91 100
106 43.8 34.3 51.5





#60
o-Xylene
Concen: 0.378 ppbv
RT: 13.696 min Scan# 3393
Delta R.T. -0.000 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

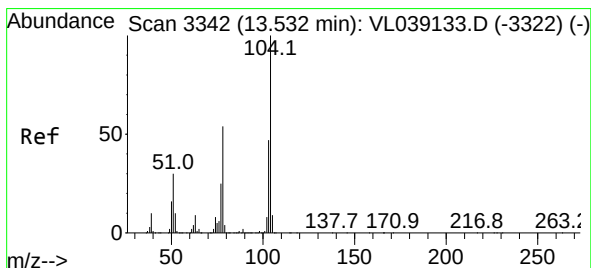
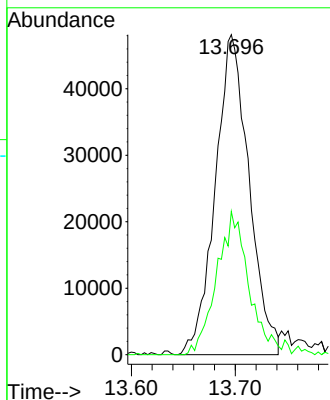
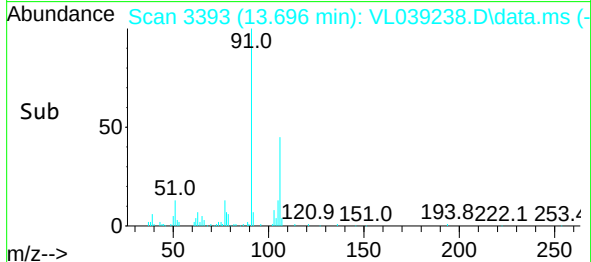
Instrument : MSVOA_L
ClientSampleId : IA-2B



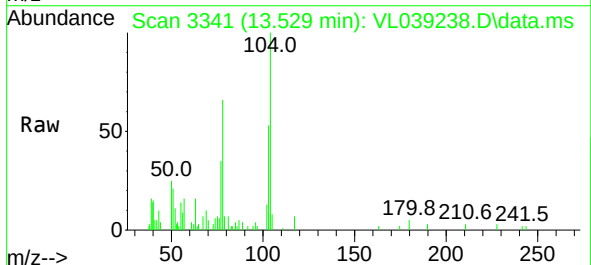
Tgt Ion: 91 Resp: 10861
Ion Ratio Lower Upper
91 100
106 44.2 22.3 66.9

Manual Integrations
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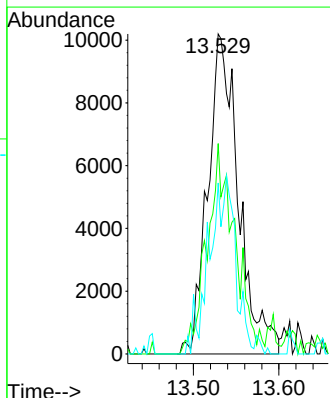
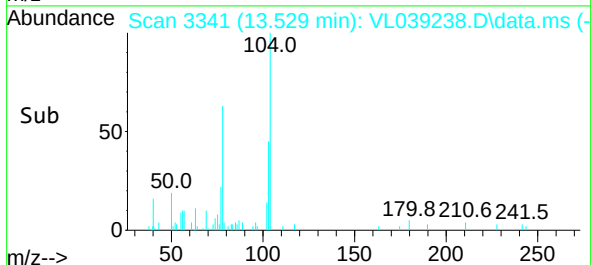
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022

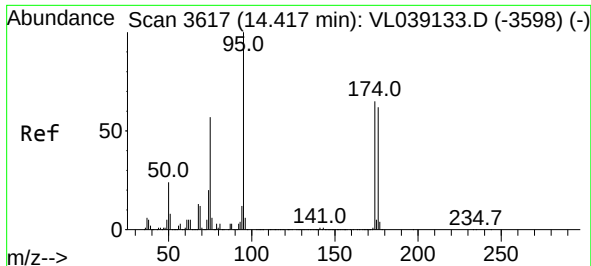


#61
Styrene
Concen: 0.165 ppbv m
RT: 13.529 min Scan# 3341
Delta R.T. -0.003 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02



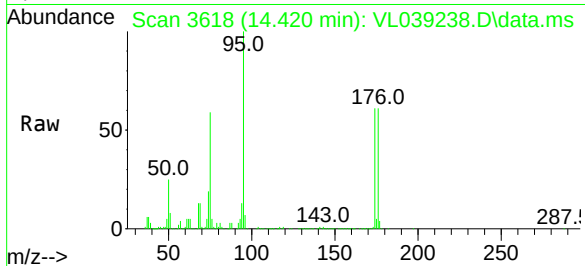
Tgt Ion:104 Resp: 25372
Ion Ratio Lower Upper
104 100
78 62.7 45.7 68.5
103 0.0 39.6 59.4#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.215 ppbv
RT: 14.420 min Scan# 3618
Delta R.T. 0.003 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

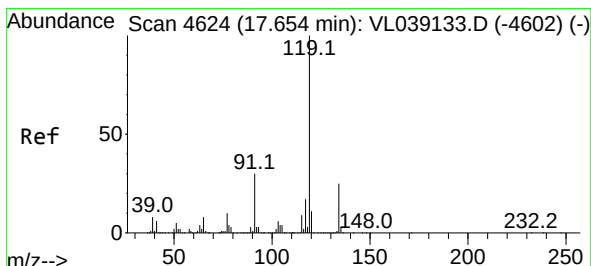
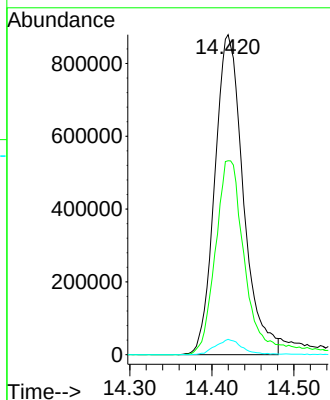
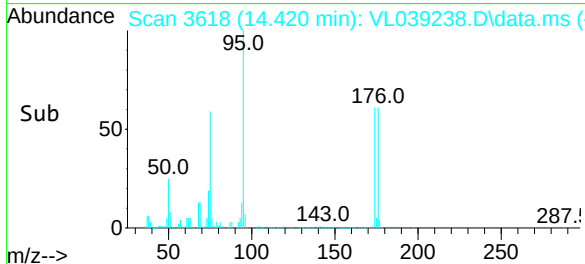
Instrument :
MSVOA_L
ClientSampleId :
IA-2B



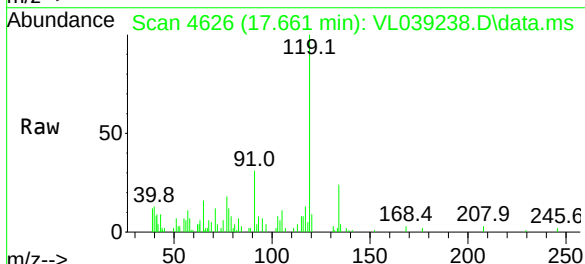
Tgt Ion: 95 Resp: 212768
Ion Ratio Lower Upper
95 100
174 65.8 53.8 80.8
175 4.6 4.1 6.1

Manual Integrations
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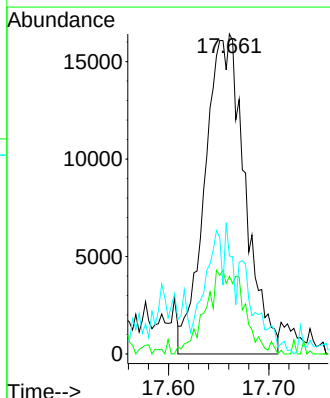
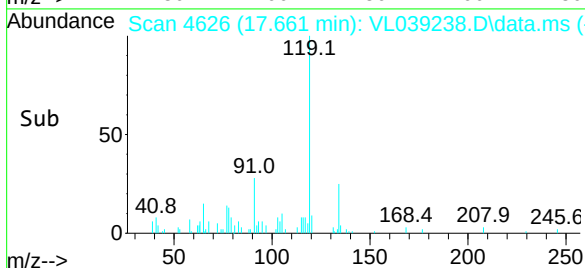
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022

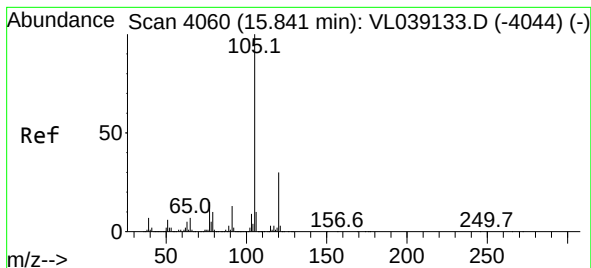


#69
p-Isopropyltoluene
Concen: 0.101 ppbv m
RT: 17.661 min Scan# 4626
Delta R.T. 0.006 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02



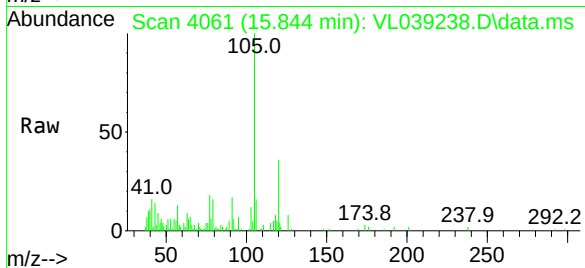
Tgt Ion:119 Resp: 45314
Ion Ratio Lower Upper
119 100
134 0.0 20.4 30.6#
91 0.0 24.2 36.4#





#72
4-Ethyltoluene
Concen: 0.138 ppbv m
RT: 15.844 min Scan# 4060
Delta R.T. 0.003 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02

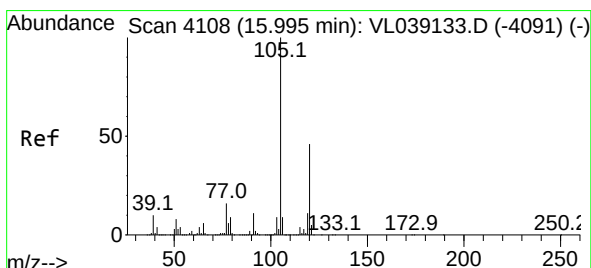
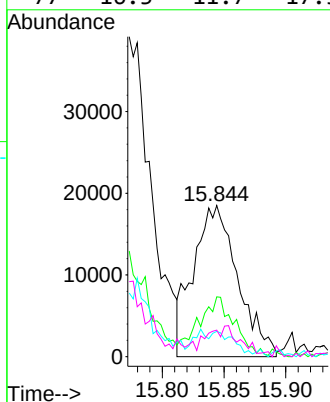
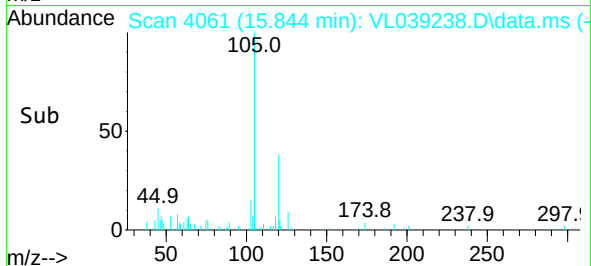
Instrument :
MSVOA_L
ClientSampleId :
IA-2B



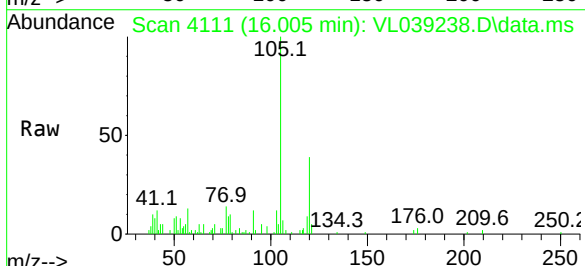
Tgt Ion:105 Resp: 4633
Ion Ratio Lower Upper
105 100
120 33.7 23.9 35.9
91 15.7 10.6 16.0
77 16.3 11.7 17.5

Manual Integrations
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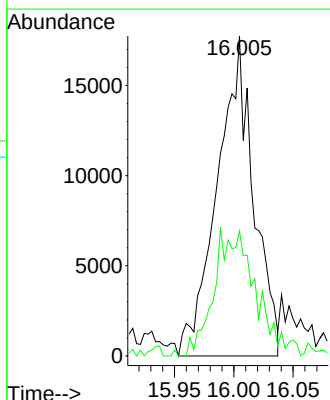
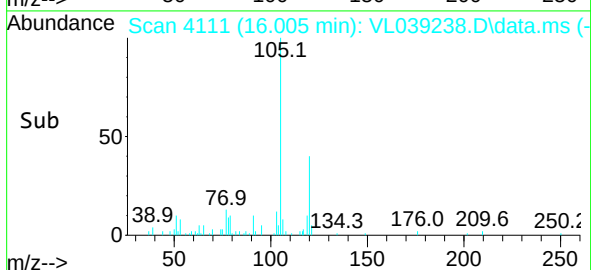
Reviewed By :Semsettin Yesilyurt 06/09/2022
Supervised By :Mahesh Dadoda 06/09/2022

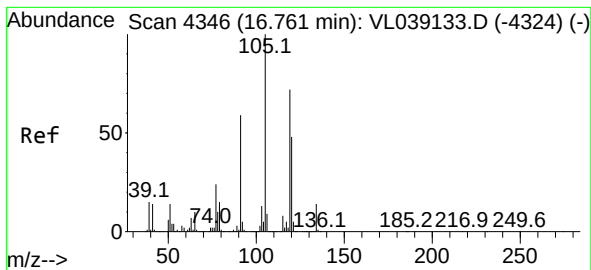


#73
1,3,5-Trimethylbenzene
Concen: 0.124 ppbv m
RT: 16.005 min Scan# 4111
Delta R.T. 0.010 min
Lab File: VL039238.D
Acq: 8 Jun 2022 17:02



Tgt Ion:105 Resp: 37701
Ion Ratio Lower Upper
105 100
120 39.0 36.7 55.1





#74

1,2,4-Trimethylbenzene

Concen: 0.331 ppbv

RT: 16.760 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL039238.D

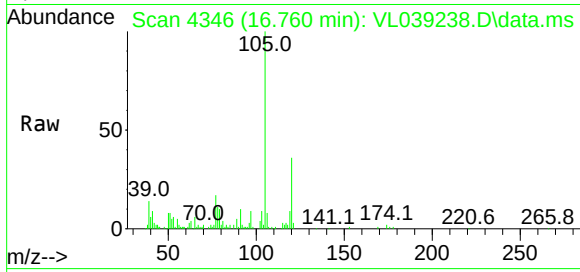
Acq: 8 Jun 2022 17:02

Instrument :

MSVOA_L

ClientSampleId :

IA-2B



Tgt Ion:105 Resp: 111980

Ion Ratio Lower Upper

105 100

120 35.6 38.1 57.1

91 8.4 47.4 71.0

77 16.3 19.5 29.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/09/2022

Supervised By :Mahesh Dadoda 06/09/2022

