

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122921\
 Data File : VL038235.D
 Acq On : 29 Dec 2021 16:40
 Operator : SY/AP
 Sample : M5217-02 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/30/2021
 Supervised By :Semsettin Yesilyurt 01/02/2022

Quant Time: Dec 29 18:41:22 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Dec 29 18:41:22 2021

QLast Update : Tue Dec 21 17:47:08 2021

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.671	49	716518	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.179	114	1878925	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.089	117	1614096	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.413	95	1352218	10.871	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.700%
Target Compounds						Qvalue
9) Propene	3.022	41	410785	7.858	ppbv	92
10) Heptane	8.124	43	76434	0.576	ppbv	92
13) Ethanol	3.623	45	114739	12.945	ppbv #	100
15) Acetone	3.861	43	507648	7.059	ppbv	99
20) Methylene Chloride	4.356	84	67910m	1.673	ppbv	
26) Hexane	5.697	57	82398	0.843	ppbv #	50
27) Carbon Disulfide	4.562	76	29491	0.343	ppbv #	72
29) Chloroform	5.758	83	119682	0.825	ppbv	97
30) Cyclohexane	7.140	84	21980m	0.254	ppbv	
34) 2-Butanone	5.253	43	435428	7.710	ppbv	100
36) Benzene	6.893	78	119707	0.683	ppbv	96
38) Trichloroethene	7.841	130	4697m	0.070	ppbv	
41) Tetrahydrofuran	6.073	42	63052	1.524	ppbv	98
44) 2,2,4-Trimethylpentane	7.873	57	394348	1.325	ppbv	91
52) Tetrachloroethene	11.230	164	52754m	0.815	ppbv	
53) Toluene	9.809	91	329499	1.629	ppbv	97
58) Ethyl Benzene	12.713	91	98819	0.395	ppbv	99
59) m/p-Xylene	12.970	91	261281	1.220	ppbv	99
60) o-Xylene	13.696	91	86109	0.434	ppbv	97
72) 4-Ethyltoluene	15.844	105	39149	0.171	ppbv #	91
74) 1,2,4-Trimethylbenzene	16.764	105	68457	0.319	ppbv #	71

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

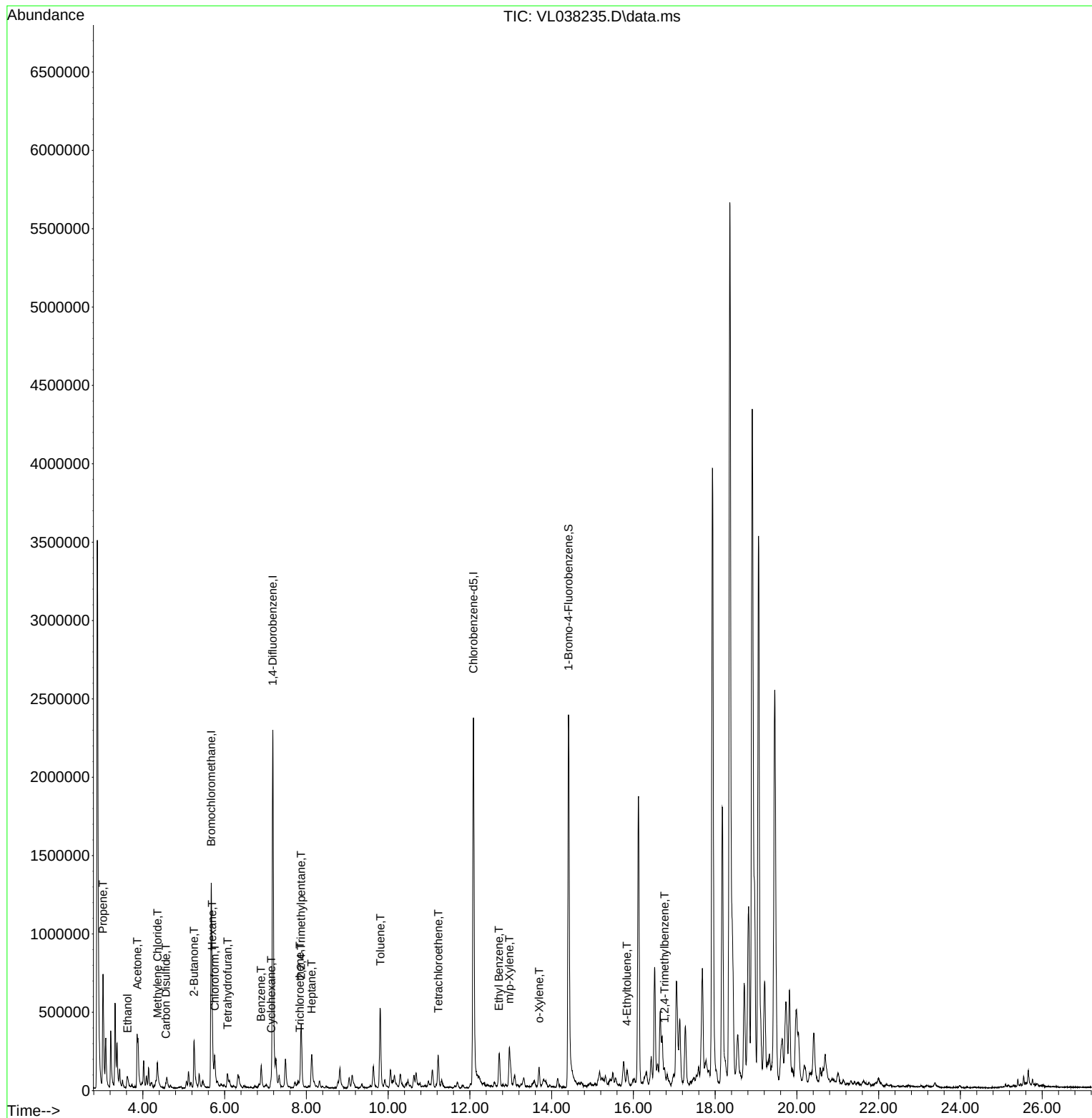
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122921\
Data File : VL038235.D
Acq On : 29 Dec 2021 16:40
Operator : SY/AP
Sample : M5217-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

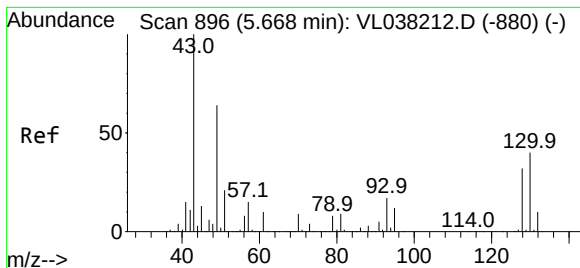
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Manual Integrations
APPROVED

Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

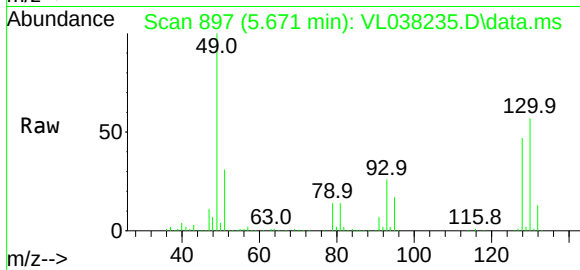
Quant Time: Dec 29 18:41:22 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec
QLast Update : Tue Dec 21 17:47:08 2021
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.671 min Scan# 896
Delta R.T. 0.003 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40

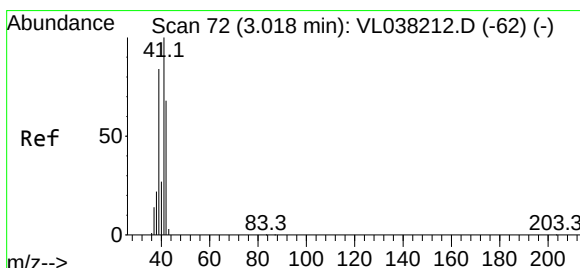
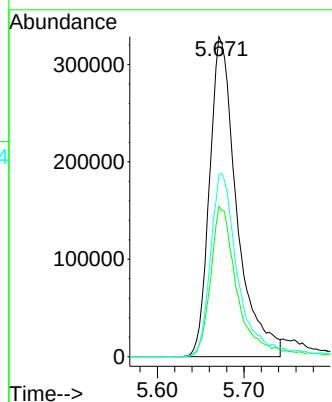
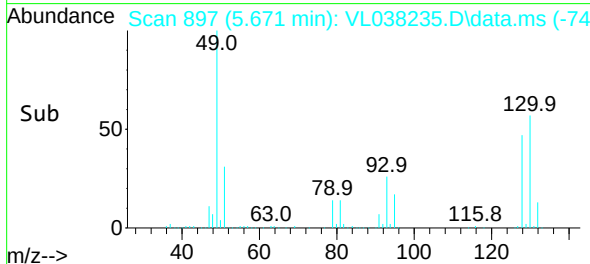
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



Tgt Ion: 49 Resp: 716518
Ion Ratio Lower Upper
49 100
128 48.1 26.9 80.6
130 60.9 32.3 96.9

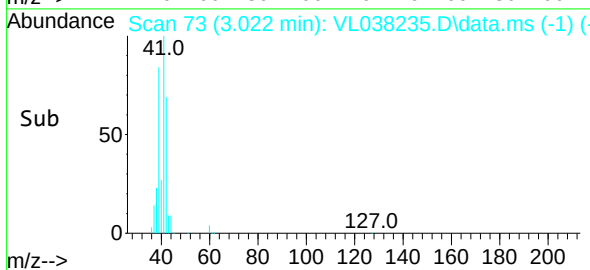
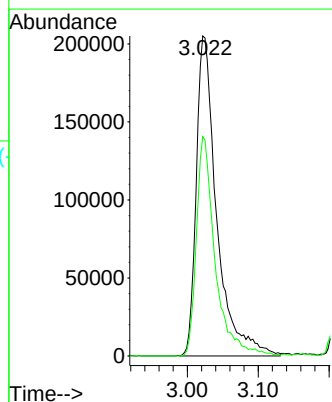
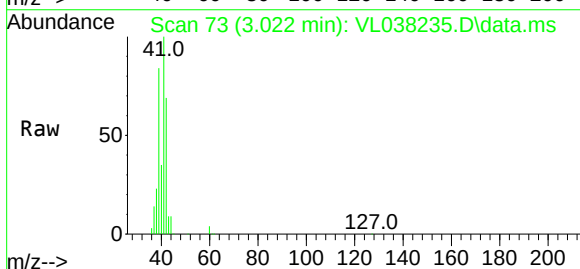
Manual Integrations
APPROVED

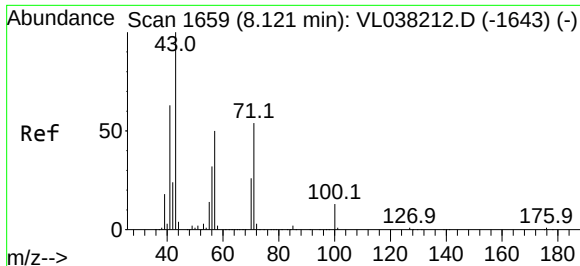
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#9
Propene
Concen: 7.858 ppbv
RT: 3.022 min Scan# 73
Delta R.T. 0.003 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40

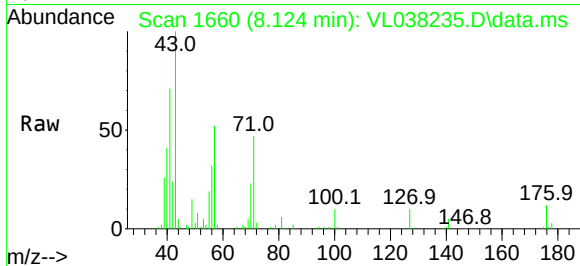
Tgt Ion: 41 Resp: 410785
Ion Ratio Lower Upper
41 100
42 63.1 55.5 83.3





#10
Heptane
Concen: 0.576 ppbv
RT: 8.124 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40

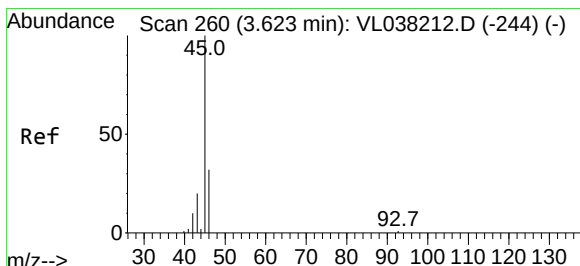
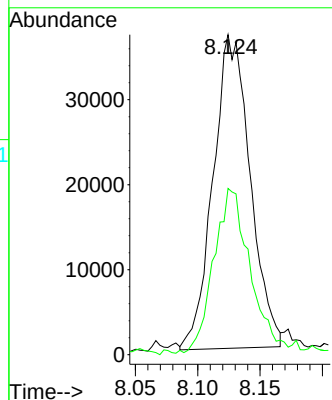
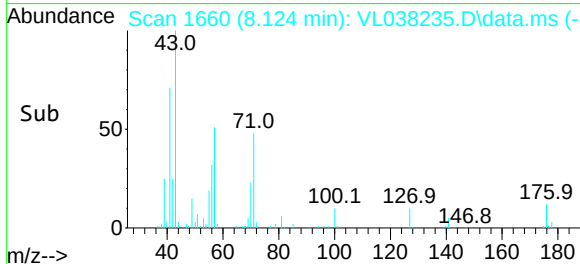
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



Tgt Ion: 43 Resp: 76434
Ion Ratio Lower Upper
43 100
57 55.7 40.3 60.5

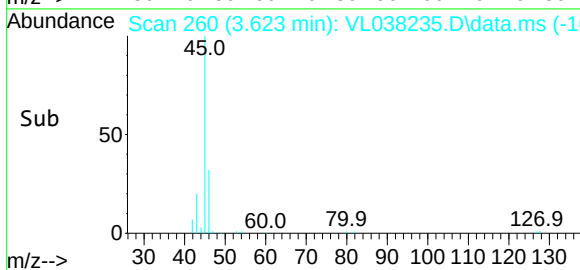
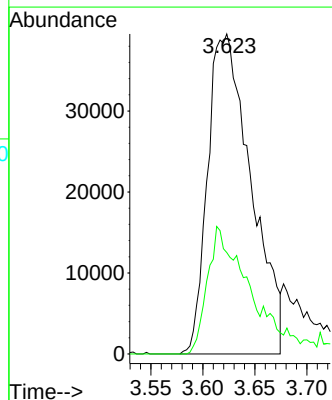
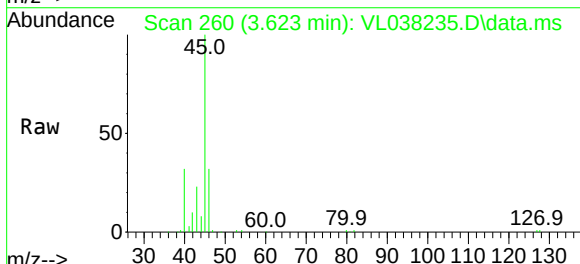
Manual Integrations
APPROVED

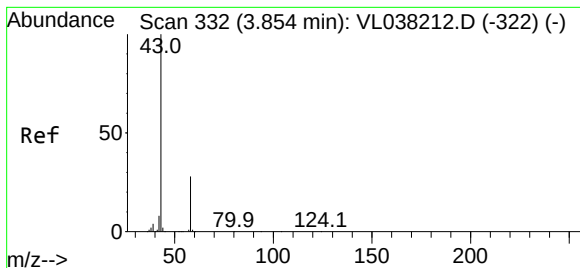
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#13
Ethanol
Concen: 12.945 ppbv
RT: 3.623 min Scan# 260
Delta R.T. 0.000 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40

Tgt Ion: 45 Resp: 114739
Ion Ratio Lower Upper
45 100
46 38.7 0.0 0.0#





#15

Acetone

Concen: 7.059 ppbv

RT: 3.861 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL038235.D

Acq: 29 Dec 2021 16:40

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion: 43 Resp: 50764

Ion Ratio Lower Upper

43 100

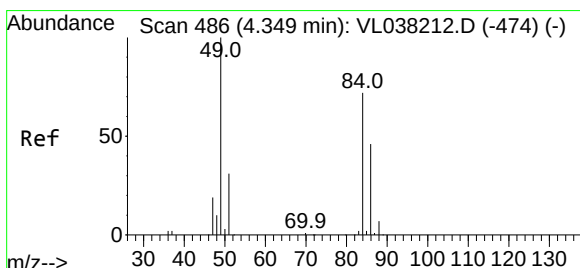
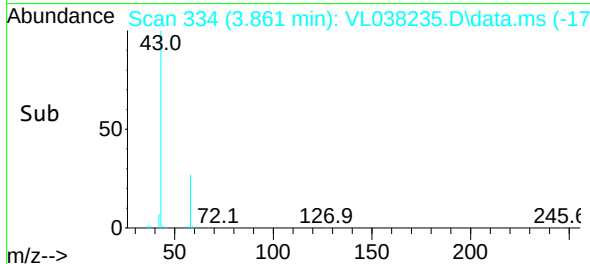
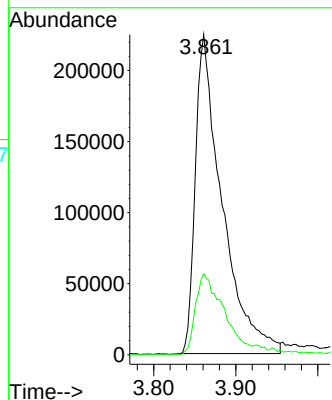
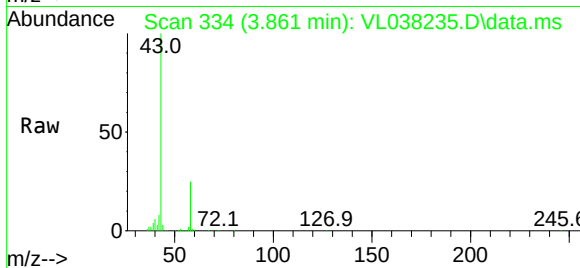
58 29.9 23.3 34.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022



#20

Methylene Chloride

Concen: 1.673 ppbv m

RT: 4.356 min Scan# 488

Delta R.T. 0.006 min

Lab File: VL038235.D

Acq: 29 Dec 2021 16:40

Tgt Ion: 84 Resp: 67910

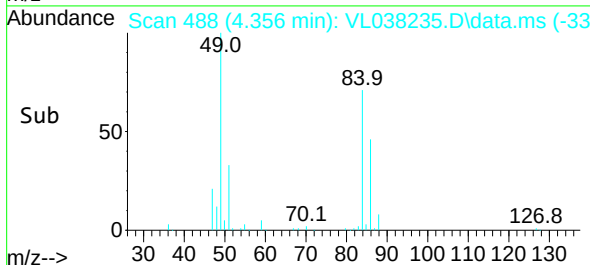
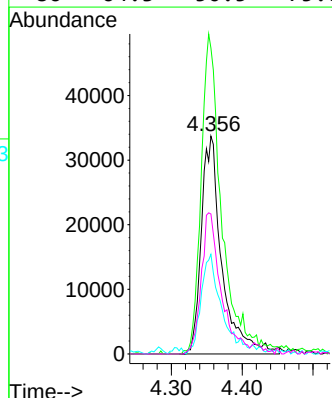
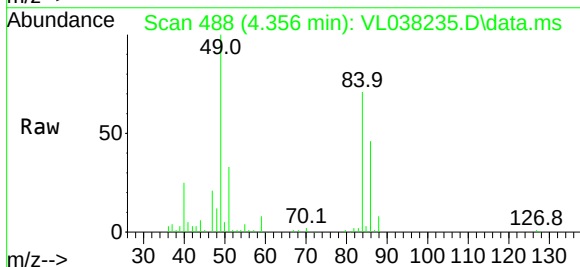
Ion Ratio Lower Upper

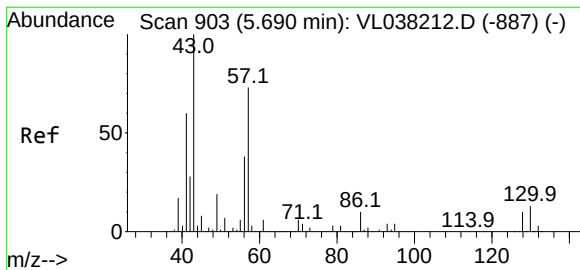
84 100

49 140.5 110.6 166.0

51 45.8 34.2 51.2

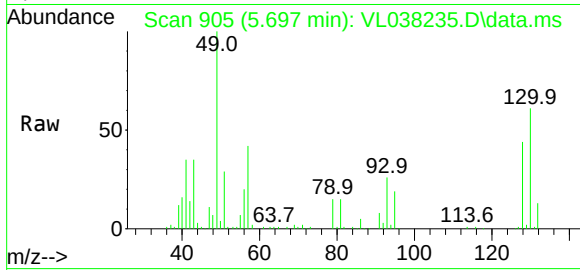
86 64.3 50.5 75.7





#26
Hexane
Concen: 0.843 ppbv
RT: 5.697 min Scan# 903
Delta R.T. 0.006 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40

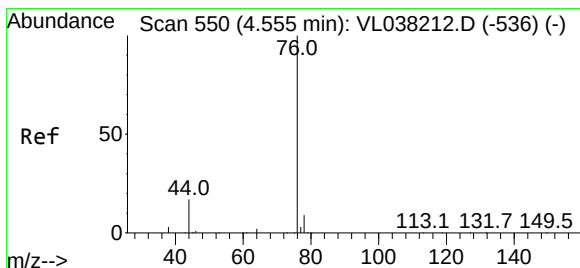
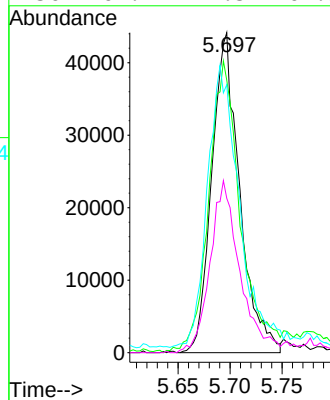
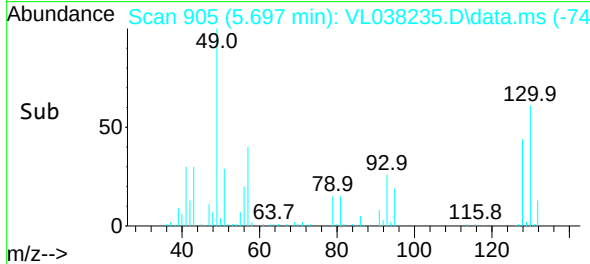
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



Tgt Ion: 57 Resp: 82398
Ion Ratio Lower Upper
57 100
41 105.7 69.0 103.6
43 103.7 171.2 256.8
56 62.4 41.5 62.3

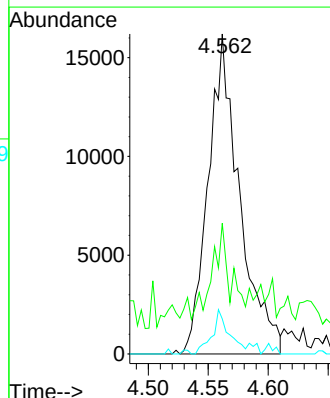
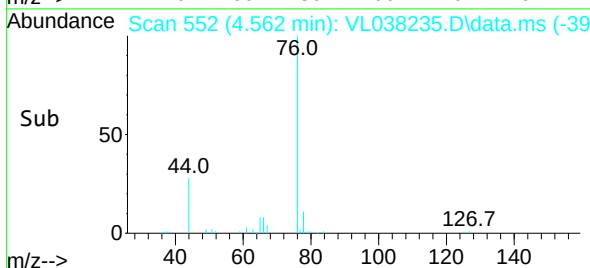
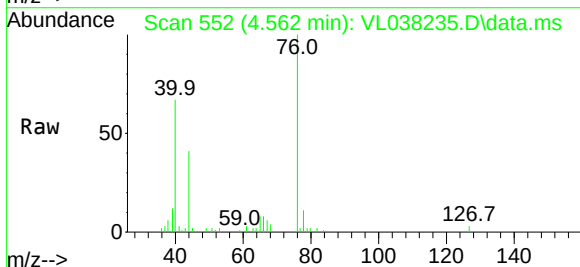
Manual Integrations
APPROVED

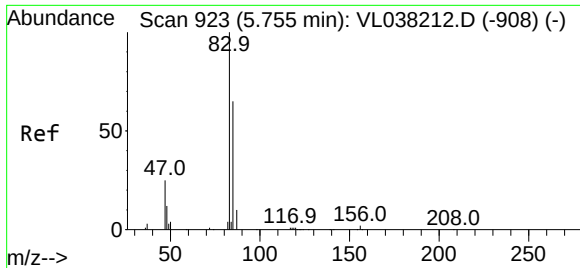
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#27
Carbon Disulfide
Concen: 0.343 ppbv
RT: 4.562 min Scan# 552
Delta R.T. 0.006 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40

Tgt Ion: 76 Resp: 29491
Ion Ratio Lower Upper
76 100
44 36.6 14.2 21.4
78 9.7 7.7 11.5





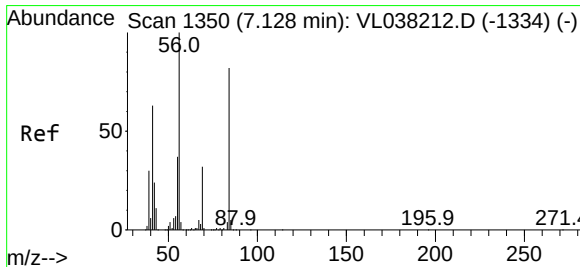
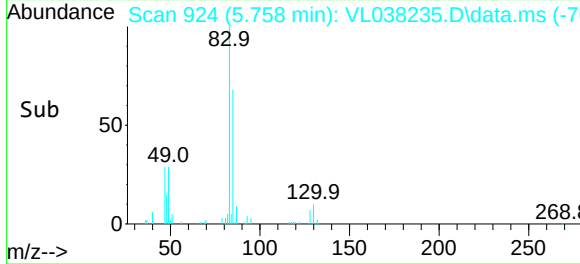
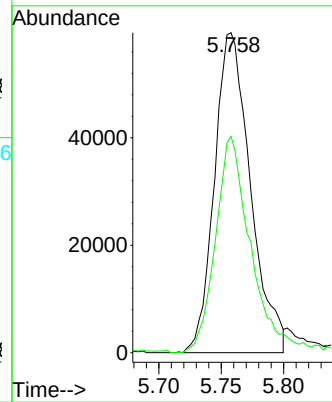
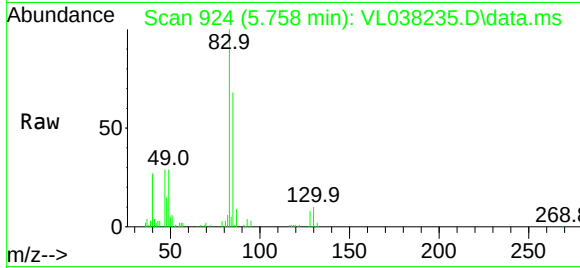
#29
Chloroform
Concen: 0.825 ppbv
RT: 5.758 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion: 83 Resp: 11968
Ion Ratio Lower Upper
83 100
85 67.6 52.2 78.4

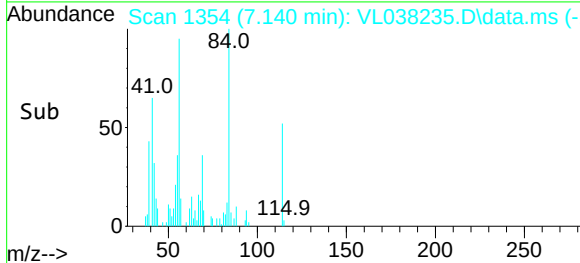
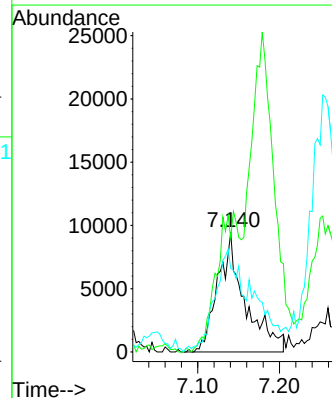
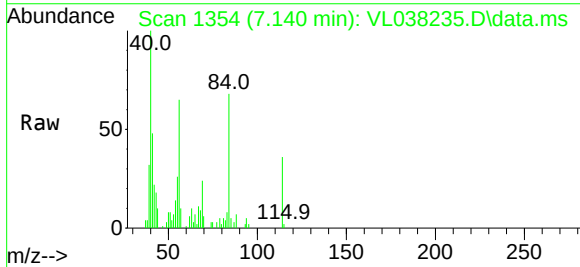
Manual Integrations
APPROVED

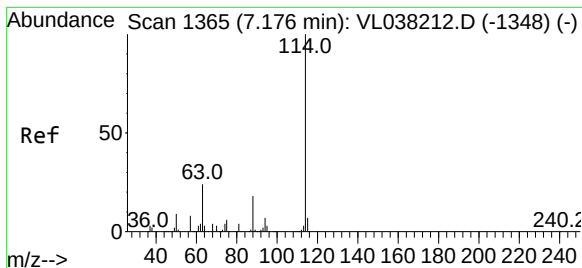
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#30
Cyclohexane
Concen: 0.254 ppbv m
RT: 7.140 min Scan# 1354
Delta R.T. 0.013 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40

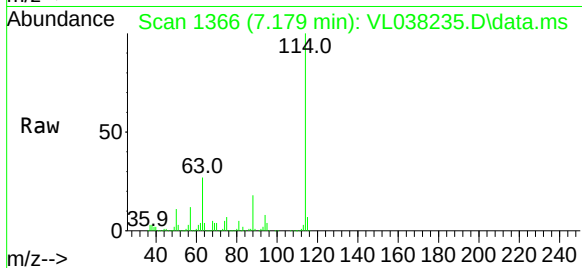
Tgt Ion: 84 Resp: 21980
Ion Ratio Lower Upper
84 100
56 0.0 105.2 157.8#
41 0.0 63.2 94.8#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.179 min Scan# 114
Delta R.T. 0.003 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40

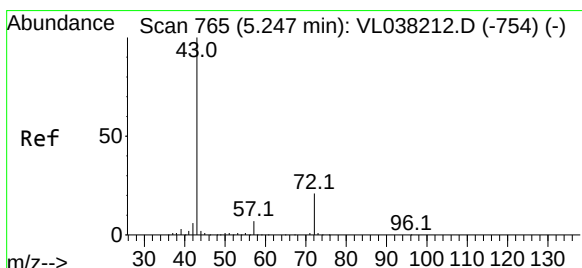
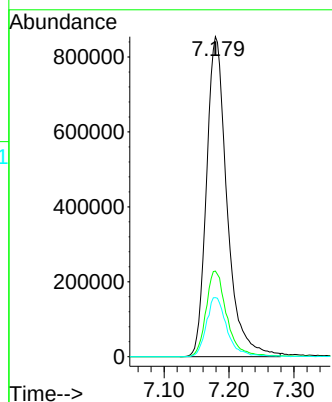
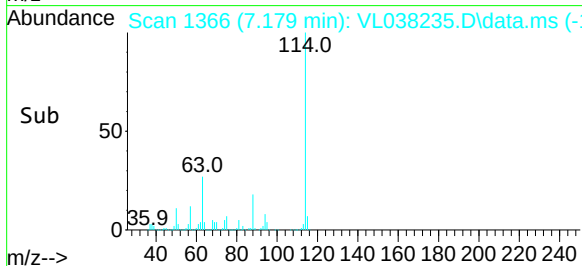
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



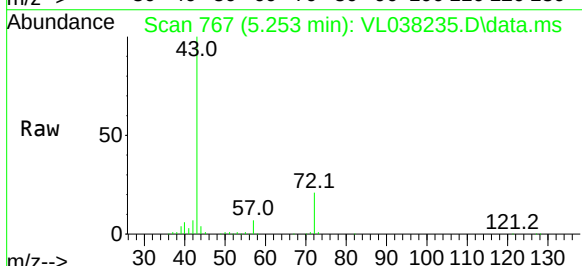
Tgt Ion:114 Resp: 187892
Ion Ratio Lower Upper
114 100
63 27.3 19.7 29.5
88 18.7 14.3 21.5

Manual Integrations
APPROVED

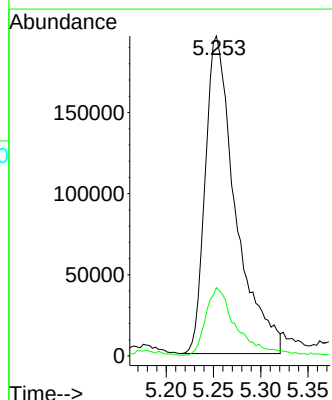
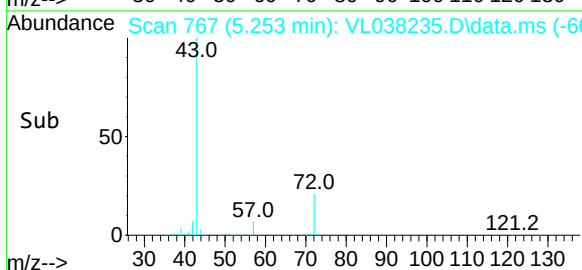
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

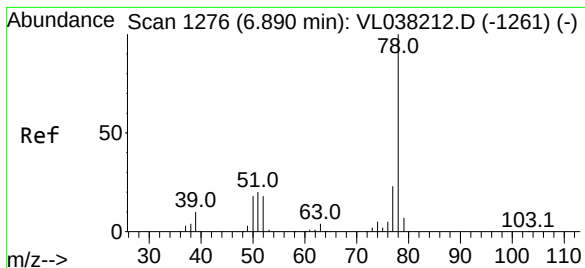


#34
2-Butanone
Concen: 7.710 ppbv
RT: 5.253 min Scan# 767
Delta R.T. 0.006 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40



Tgt Ion: 43 Resp: 435428
Ion Ratio Lower Upper
43 100
72 22.9 18.3 27.5





#36

Benzene

Concen: 0.683 ppbv

RT: 6.893 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL038235.D

Acq: 29 Dec 2021 16:40

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion: 78 Resp: 11970

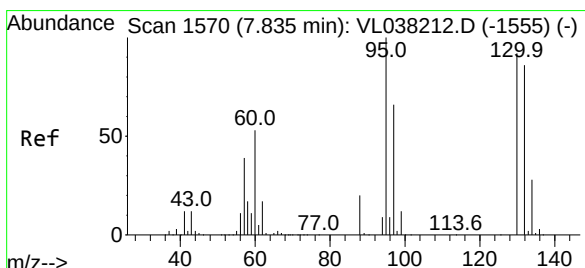
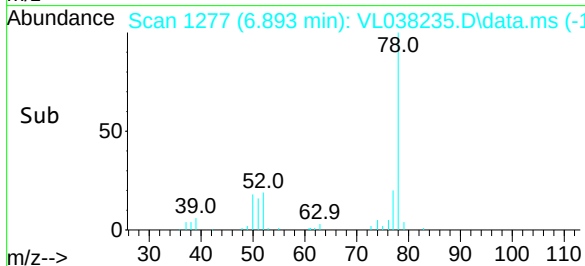
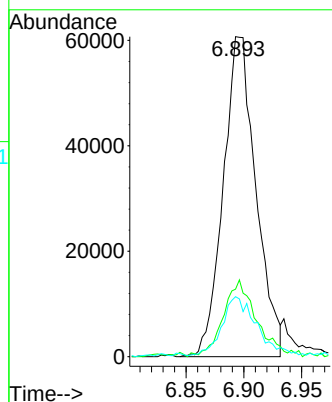
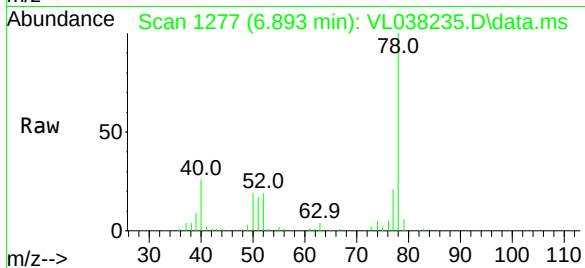
Ion	Ratio	Lower	Upper
78	100		
77	19.7	18.2	27.4
50	17.8	14.3	21.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022



#38

Trichloroethene

Concen: 0.070 ppbv m

RT: 7.841 min Scan# 1572

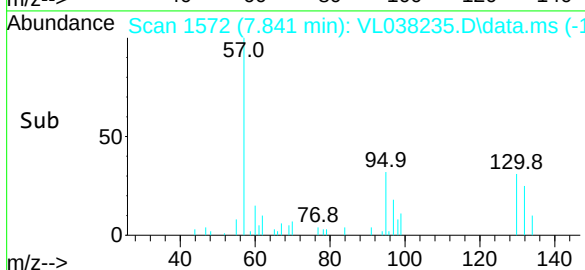
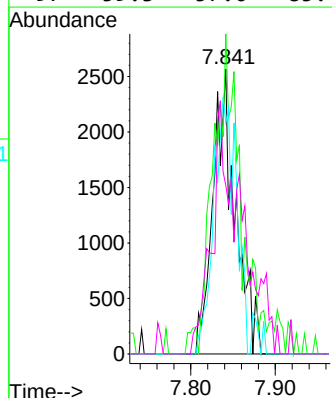
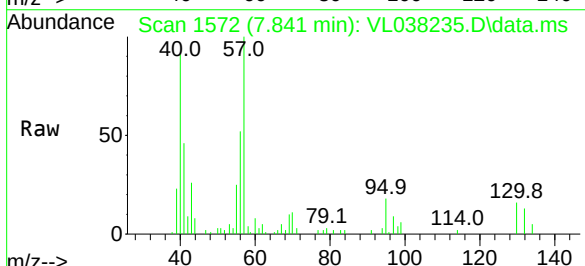
Delta R.T. 0.006 min

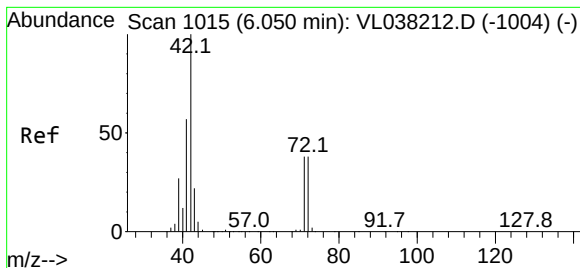
Lab File: VL038235.D

Acq: 29 Dec 2021 16:40

Tgt Ion:130 Resp: 4697

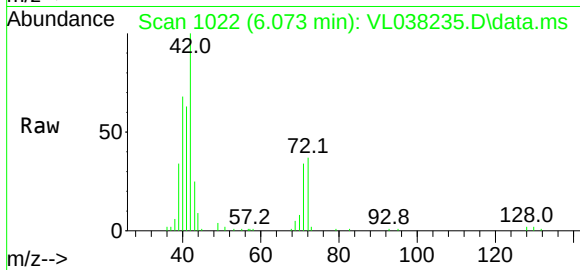
Ion	Ratio	Lower	Upper
130	100		
95	112.4	87.0	130.4
132	81.3	75.1	112.7
97	59.3	57.0	85.4





#41
Tetrahydrofuran
Concen: 1.524 ppbv
RT: 6.073 min Scan# 1015
Delta R.T. 0.023 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40

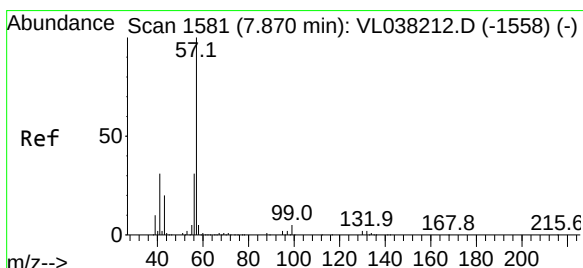
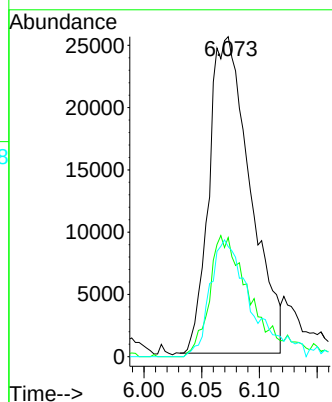
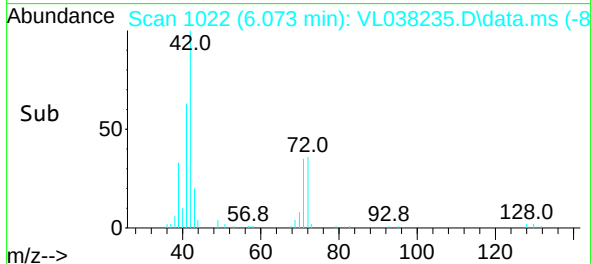
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



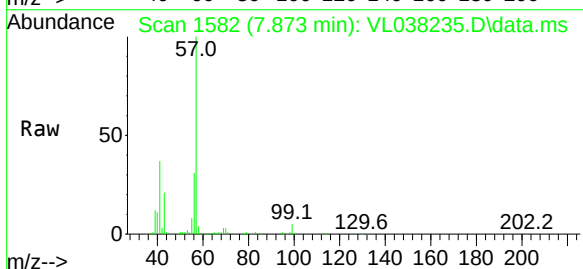
Tgt Ion: 42 Resp: 63052
Ion Ratio Lower Upper
42 100
72 40.6 31.4 47.0
71 37.0 30.0 45.0

Manual Integrations
APPROVED

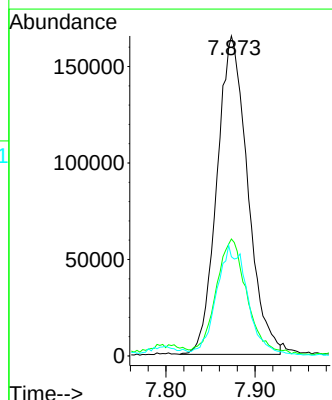
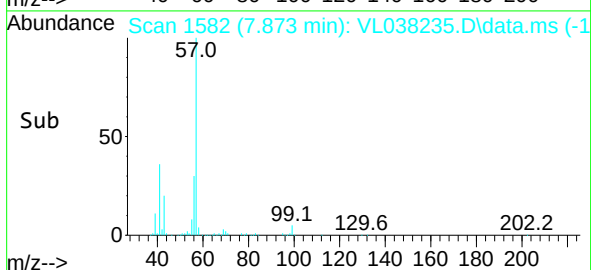
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

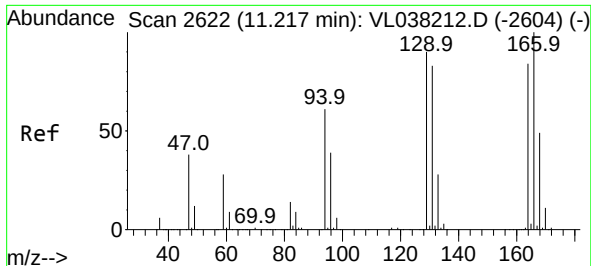


#44
2,2,4-Trimethylpentane
Concen: 1.325 ppbv
RT: 7.873 min Scan# 1582
Delta R.T. 0.003 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40



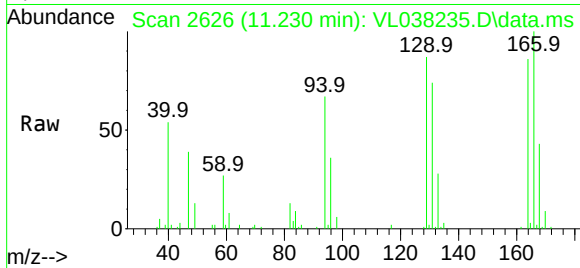
Tgt Ion: 57 Resp: 394348
Ion Ratio Lower Upper
57 100
41 36.9 24.9 37.3
56 35.2 24.8 37.2





#52
Tetrachloroethene
Concen: 0.815 ppbv m
RT: 11.230 min Scan# 21230
Delta R.T. 0.013 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40

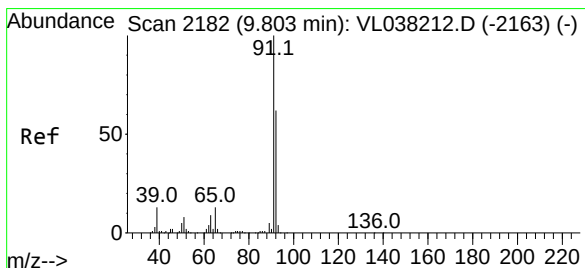
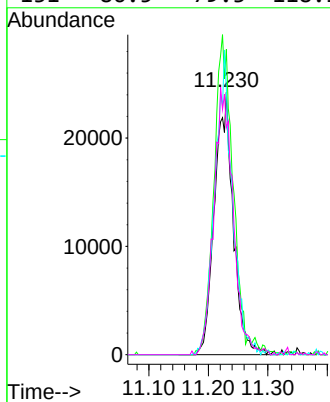
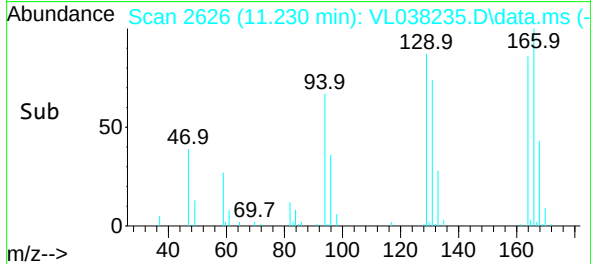
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



Tgt Ion:164 Resp: 52754
Ion Ratio Lower Upper
164 100
166 116.3 95.6 143.4
129 101.0 85.8 128.8
131 86.5 79.3 118.9

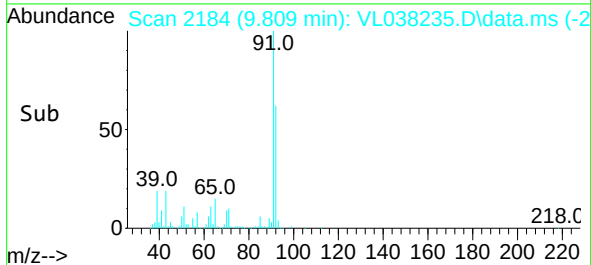
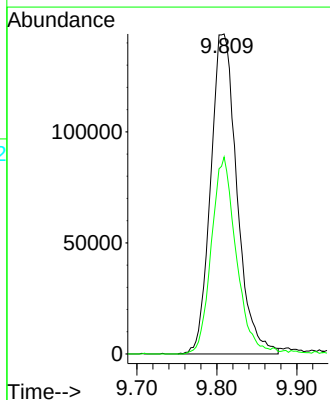
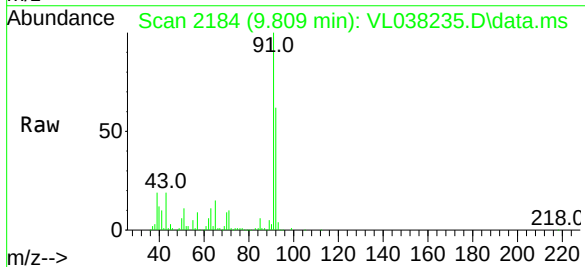
Manual Integrations
APPROVED

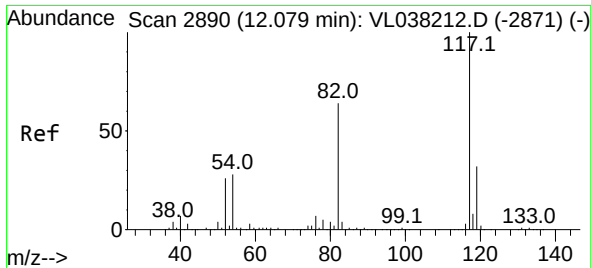
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#53
Toluene
Concen: 1.629 ppbv
RT: 9.809 min Scan# 2184
Delta R.T. 0.006 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40

Tgt Ion: 91 Resp: 329499
Ion Ratio Lower Upper
91 100
92 58.8 48.9 73.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.089 min Scan# 2890

Delta R.T. 0.010 min

Lab File: VL038235.D

Acq: 29 Dec 2021 16:40

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion:117 Resp: 1614090

Ion Ratio Lower Upper

117 100

82 73.2 53.3 79.9

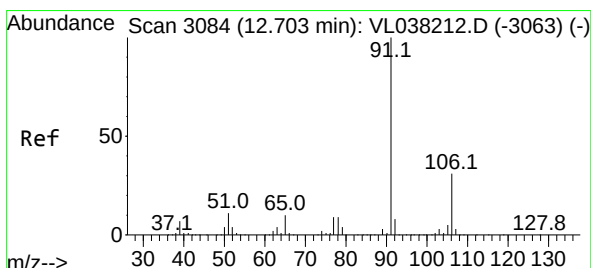
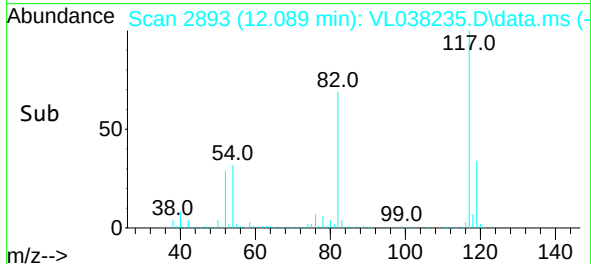
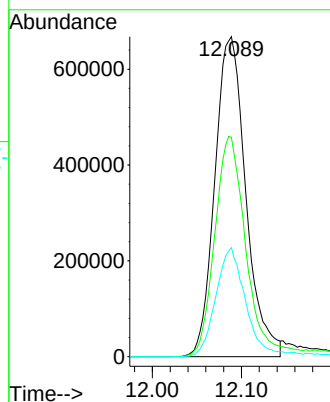
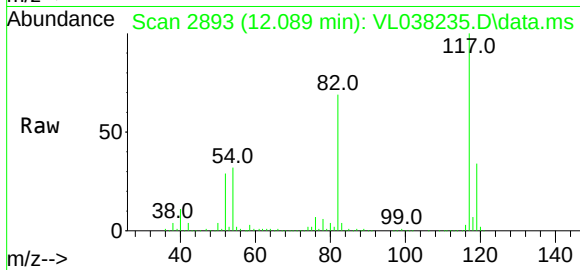
119 34.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022



#58

Ethyl Benzene

Concen: 0.395 ppbv

RT: 12.713 min Scan# 3087

Delta R.T. 0.010 min

Lab File: VL038235.D

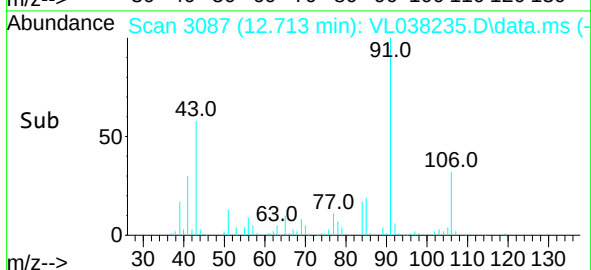
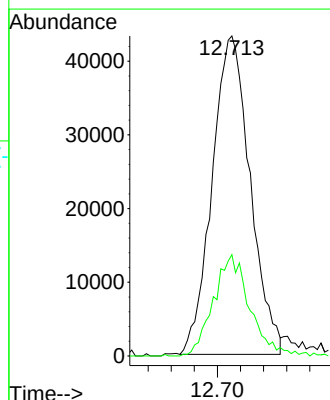
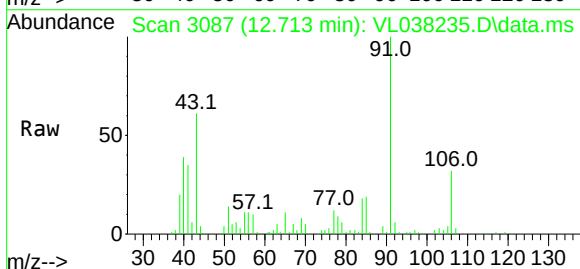
Acq: 29 Dec 2021 16:40

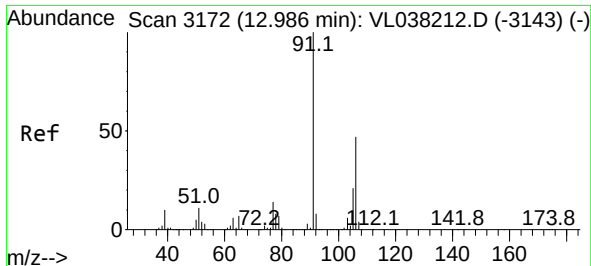
Tgt Ion: 91 Resp: 98819

Ion Ratio Lower Upper

91 100

106 31.8 25.0 37.4





#59

m/p-Xylene

Concen: 1.220 ppbv

RT: 12.970 min Scan# 3172

Delta R.T. -0.016 min

Lab File: VL038235.D

Acq: 29 Dec 2021 16:40

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion: 91 Resp: 26128

Ion Ratio Lower Upper

91 100

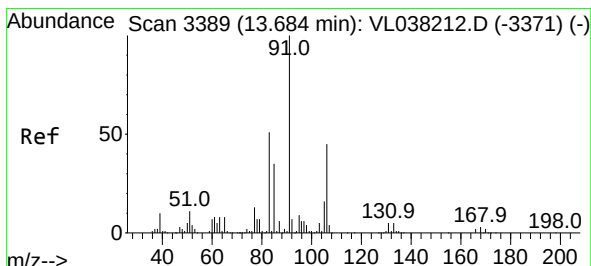
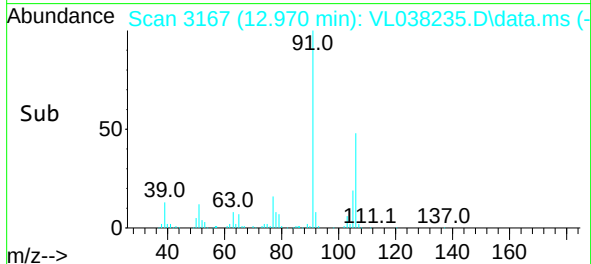
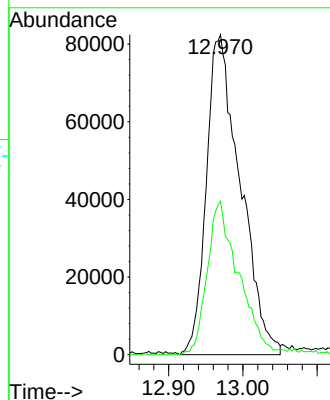
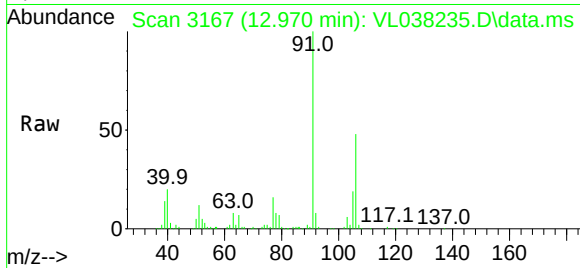
106 45.6 36.9 55.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022



#60

o-Xylene

Concen: 0.434 ppbv

RT: 13.696 min Scan# 3393

Delta R.T. 0.013 min

Lab File: VL038235.D

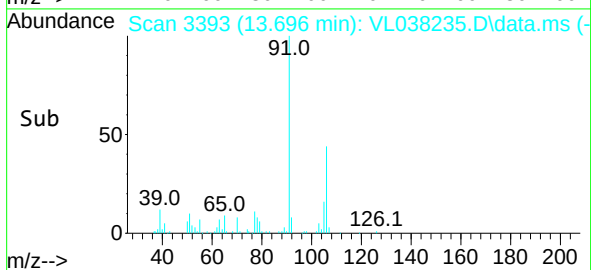
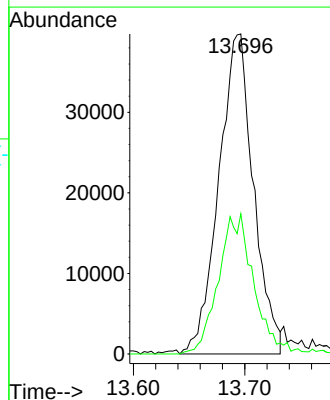
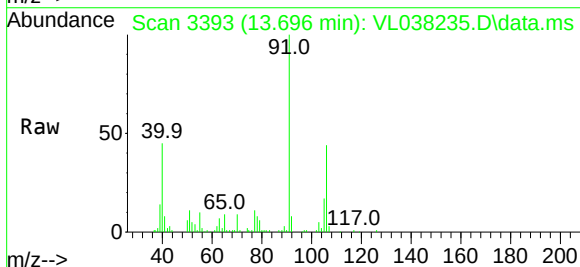
Acq: 29 Dec 2021 16:40

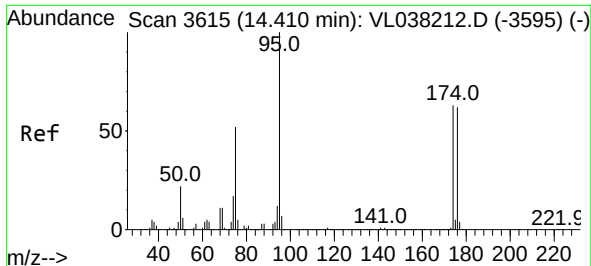
Tgt Ion: 91 Resp: 86109

Ion Ratio Lower Upper

91 100

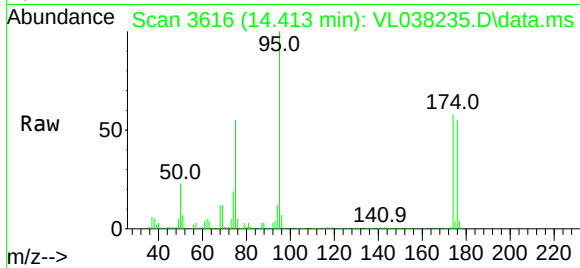
106 45.0 23.5 70.5





#68
1-Bromo-4-Fluorobenzene
Concen: 10.871 ppbv
RT: 14.413 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40

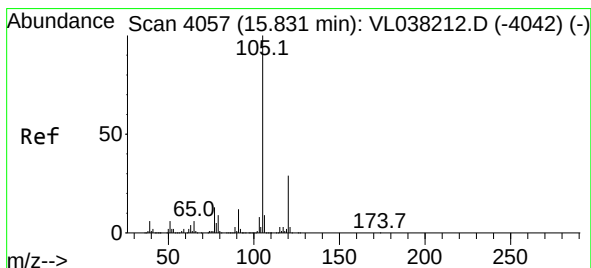
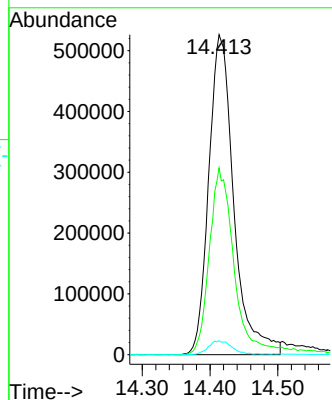
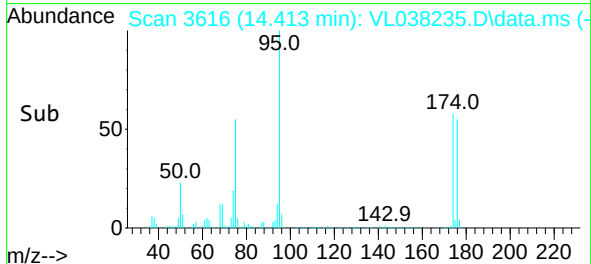
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



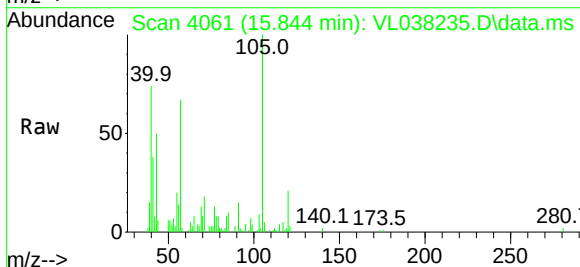
Tgt Ion: 95 Resp: 1352218
Ion Ratio Lower Upper
95 100
174 60.1 54.6 81.8
175 4.5 4.1 6.1

Manual Integrations
APPROVED

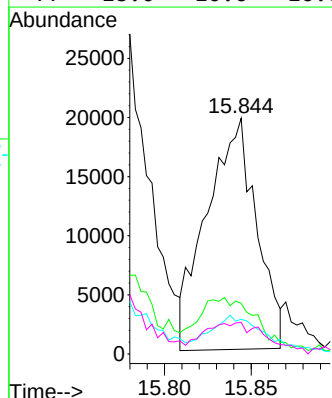
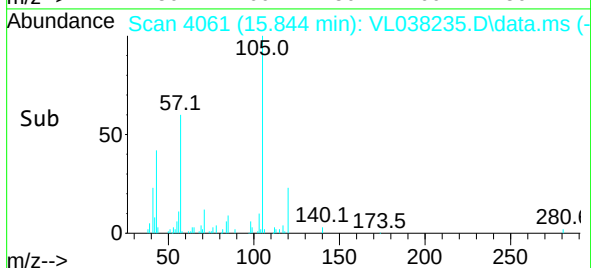
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

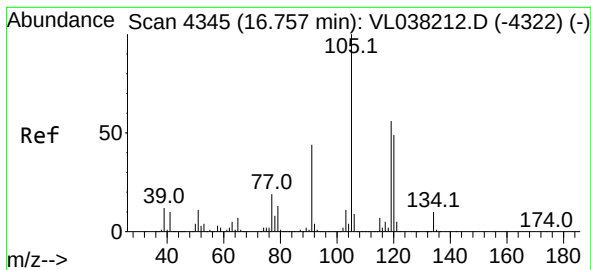


#72
4-Ethyltoluene
Concen: 0.171 ppbv
RT: 15.844 min Scan# 4061
Delta R.T. 0.013 min
Lab File: VL038235.D
Acq: 29 Dec 2021 16:40



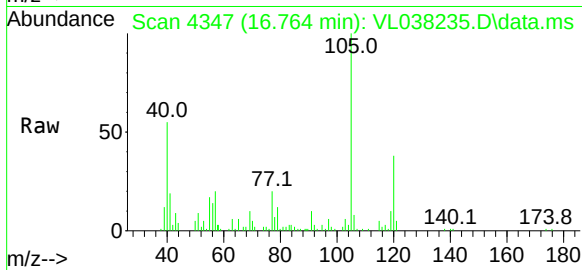
Tgt Ion:105 Resp: 39149
Ion Ratio Lower Upper
105 100
120 32.3 24.3 36.5
91 20.5 9.8 14.6#
77 18.0 10.6 16.0#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.319 ppbv
 RT: 16.764 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL038235.D
 Acq: 29 Dec 2021 16:40

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL



Tgt Ion:	105	Resp:	6845
Ion Ratio	Lower	Upper	
105	100		
120	39.0	39.4	59.2
91	8.5	35.0	52.4
77	17.3	15.6	23.4

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/30/2021
 Supervised By :Semsettin Yesilyurt 01/02/2022

