

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031722\
 Data File : VL038628.D
 Acq On : 17 Mar 2022 16:14
 Operator : SY/AP
 Sample : N1976-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1ADUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/19/2022
 Supervised By :Mahesh Dadoda 03/21/2022

Quant Time: Mar 18 03:34:00 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 08 21:18:44 2022

QLast Update : Tue Mar 08 21:18:44 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.671	49	880557	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	7.179	114	2209292	10.000	ppbv	0.02
55) Chlorobenzene-d5	12.089	117	1909691	10.000	ppbv	# 0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.420	95	1369197	9.430	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.060	85	20920	0.157	ppbv	94
3) Chlorodifluoromethane	2.996	51	1238028	7.973	ppbv	97
4) Chloromethane	3.147	50	31734	0.551	ppbv	99
9) Propene	3.031	41	672455m	12.274	ppbv	
10) Heptane	8.128	43	46879	0.358	ppbv	96
11) Trichlorofluoromethane	3.957	101	25075	0.215	ppbv	98
13) Ethanol	3.629	45	13095185	2080.745	ppbv	97
15) Acetone	3.854	43	442154	7.119	ppbv #	72
19) Isopropyl Alcohol	3.993	45	664400	16.020	ppbv	100
20) Methylene Chloride	4.350	84	88244	2.361	ppbv	93
26) Hexane	5.694	57	249708	2.542	ppbv #	73
30) Cyclohexane	7.134	84	28991m	0.341	ppbv	
34) 2-Butanone	5.250	43	64979	1.135	ppbv	93
35) Carbon Tetrachloride	7.018	117	9924m	0.066	ppbv	
36) Benzene	6.893	78	168600	0.846	ppbv	98
38) Trichloroethene	7.838	130	4504m	0.057	ppbv	
44) 2,2,4-Trimethylpentane	7.874	57	97043	0.288	ppbv #	76
52) Tetrachloroethene	11.234	164	5798m	0.079	ppbv	
53) Toluene	9.809	91	926413	4.353	ppbv	99
58) Ethyl Benzene	12.709	91	56340	0.228	ppbv	93
59) m/p-Xylene	12.967	91	195515m	0.924	ppbv	
60) o-Xylene	13.693	91	60529	0.303	ppbv	100
61) Styrene	13.536	104	14404m	0.146	ppbv	
74) 1,2,4-Trimethylbenzene	16.770	105	45247m	0.199	ppbv	

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

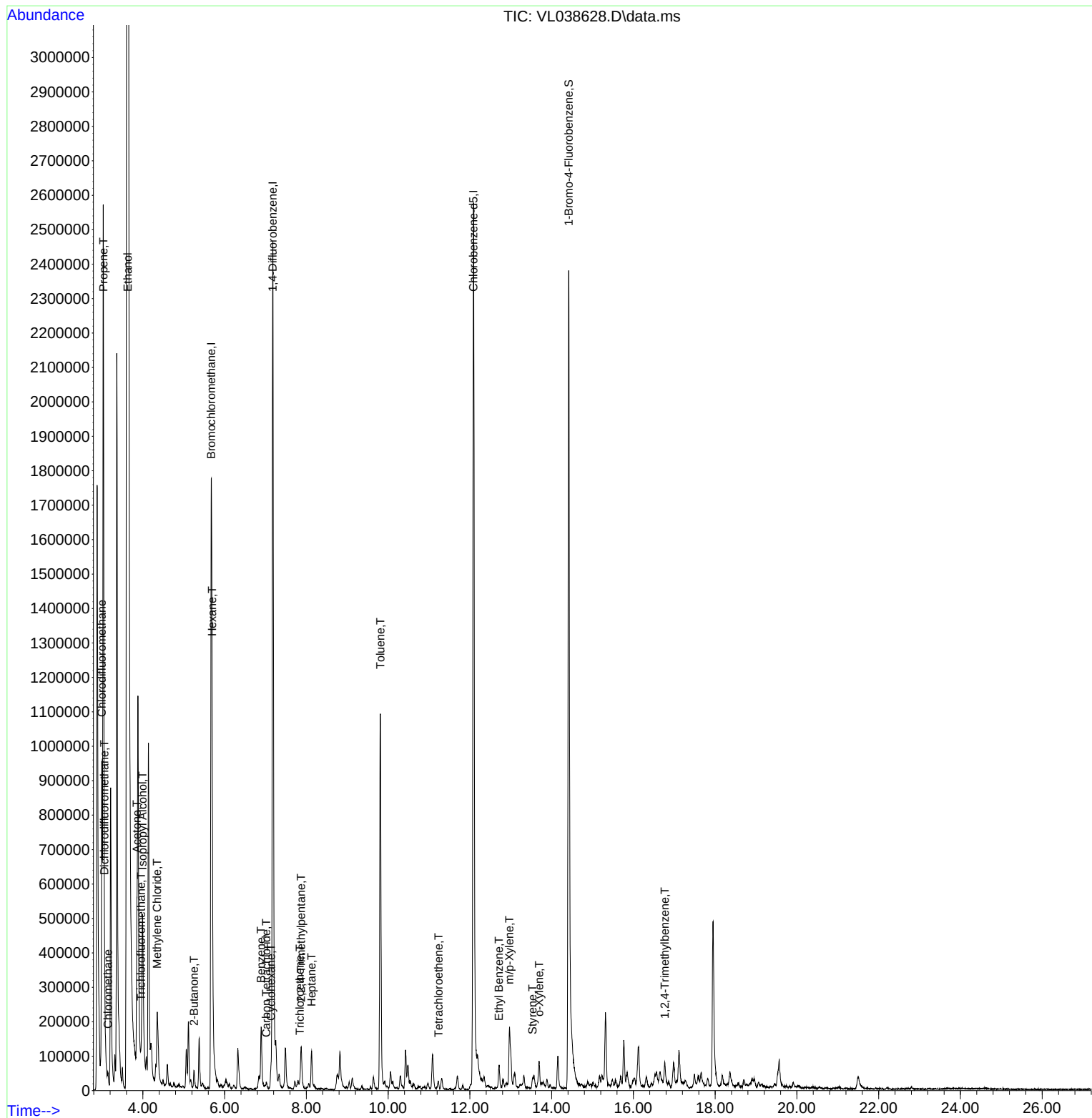
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031722\
Data File : VL038628.D
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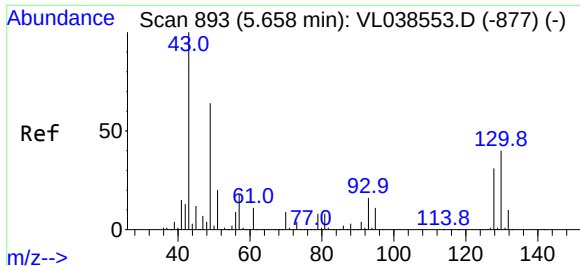
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Mar 18 03:34:00 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 08 21:18:44 2022
Response via : Initial Calibration

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APPROVED

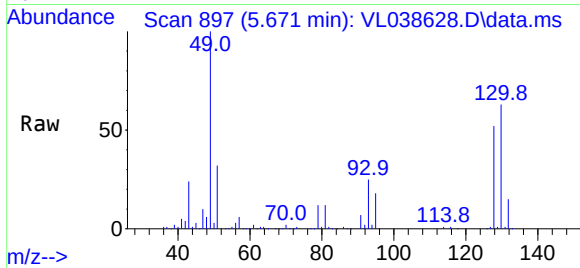
Reviewed By : Semsettin Yesilyurt 03/19/2022
Supervised By : Mahesh Dadoda 03/21/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.671 min Scan# 89
Delta R.T. 0.013 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

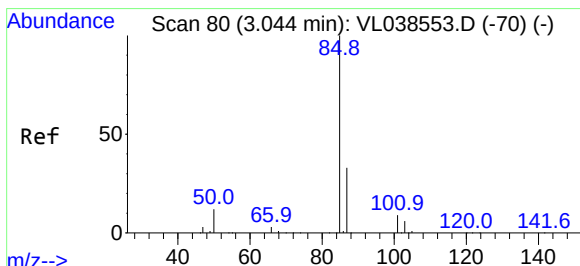
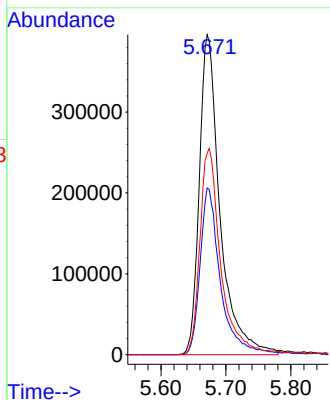
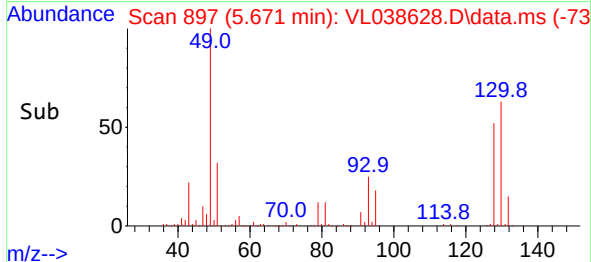
Instrument :
MSVOA_L
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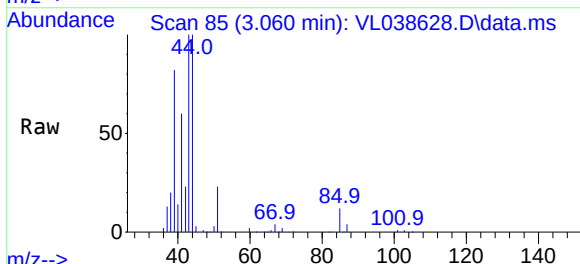
Tgt Ion: 49 Resp: 88055
Ion Ratio Lower Upper
49 100
128 51.5 26.4 79.2
130 65.9 33.0 98.9

Manual Integrations
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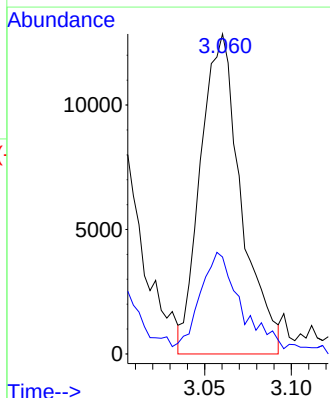
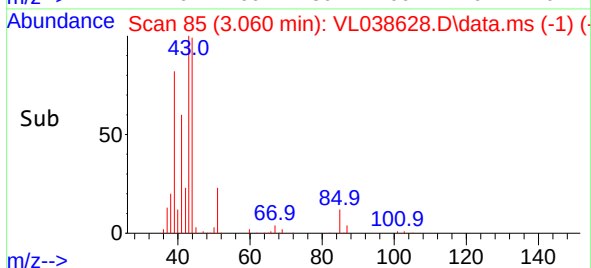
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Supervised By :Mahesh Dadoda 03/21/2022

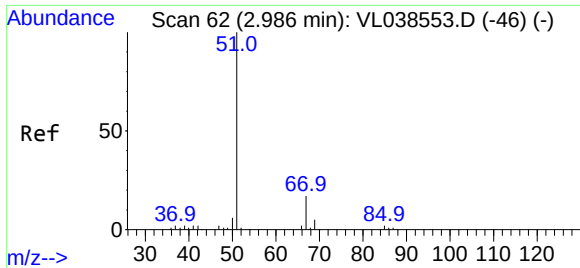


#2
Dichlorodifluoromethane
Concen: 0.157 ppbv
RT: 3.060 min Scan# 85
Delta R.T. 0.016 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14



Tgt Ion: 85 Resp: 20920
Ion Ratio Lower Upper
85 100
87 29.6 26.2 39.2





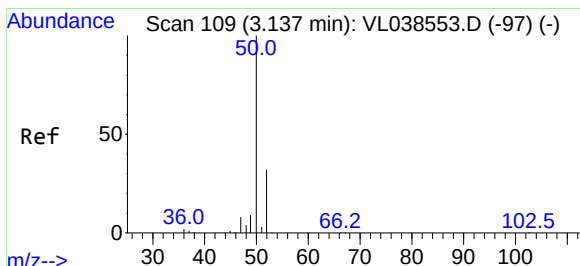
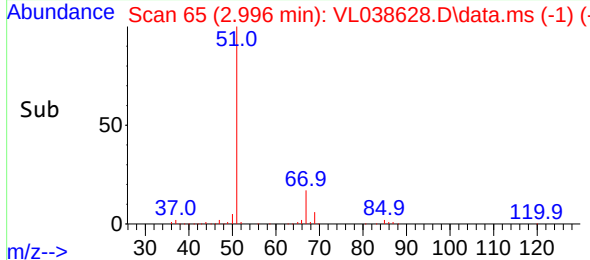
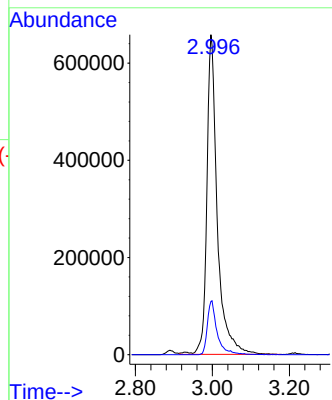
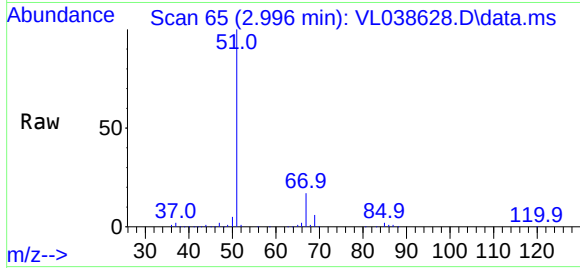
#3
Chlorodifluoromethane
Concen: 7.973 ppbv
RT: 2.996 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

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Tgt Ion: 51 Resp: 1238028
Ion Ratio Lower Upper
51 100
67 15.9 13.6 20.4

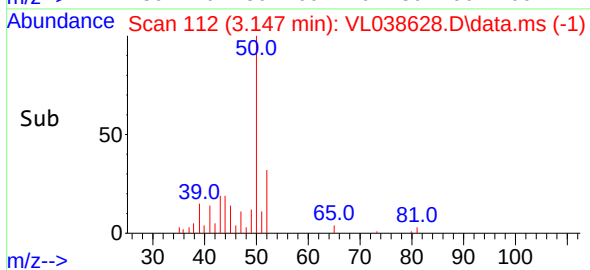
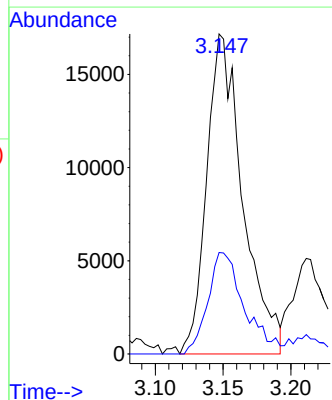
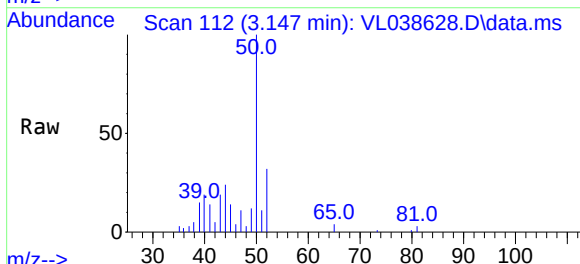
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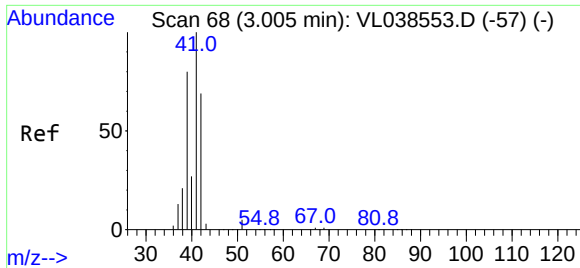
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#4
Chloromethane
Concen: 0.551 ppbv
RT: 3.147 min Scan# 112
Delta R.T. 0.010 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

Tgt Ion: 50 Resp: 31734
Ion Ratio Lower Upper
50 100
52 31.7 25.6 38.4





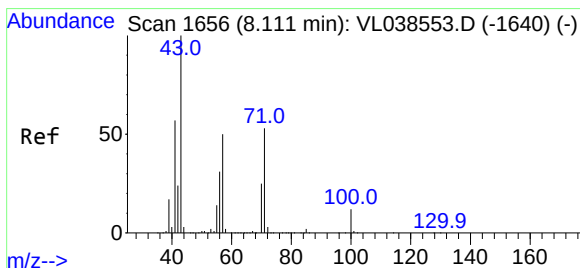
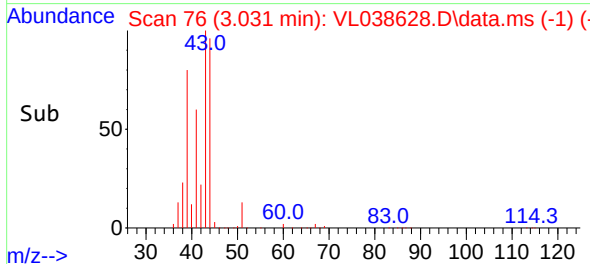
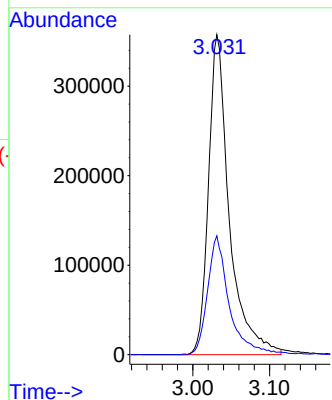
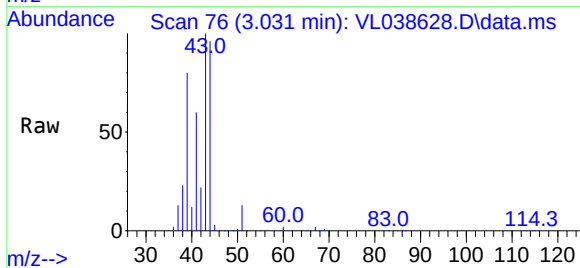
#9
Propene
Concen: 12.274 ppbv m
RT: 3.031 min Scan# 70
Delta R.T. 0.026 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

Instrument :
MSVOA_L
ClientSampleId :
IA-1ADUP

Tgt Ion: 41 Resp: 67245
Ion Ratio Lower Upper
41 100
42 32.4 55.7 83.5

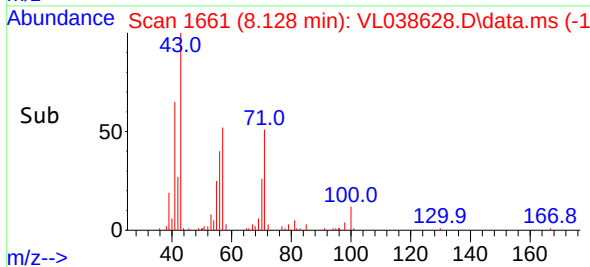
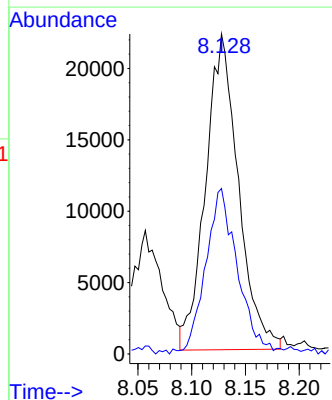
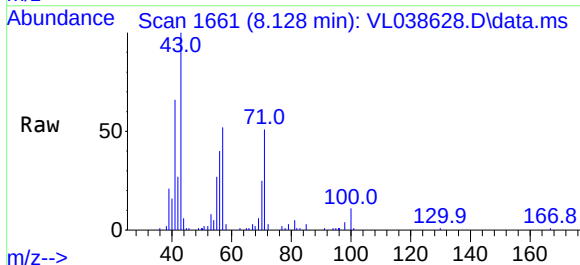
Manual Integrations
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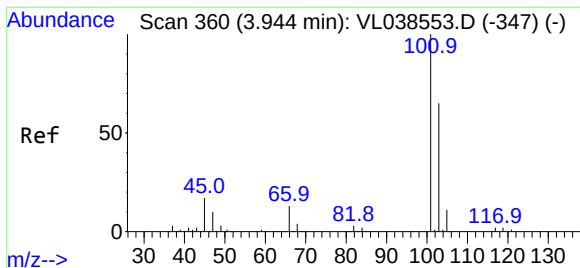
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#10
Heptane
Concen: 0.358 ppbv
RT: 8.128 min Scan# 1661
Delta R.T. 0.016 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

Tgt Ion: 43 Resp: 46879
Ion Ratio Lower Upper
43 100
57 52.6 39.6 59.4





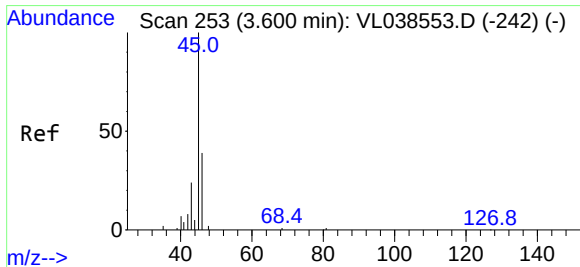
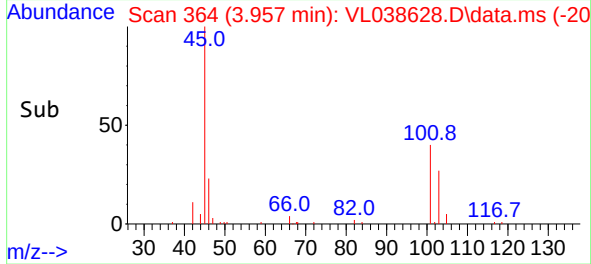
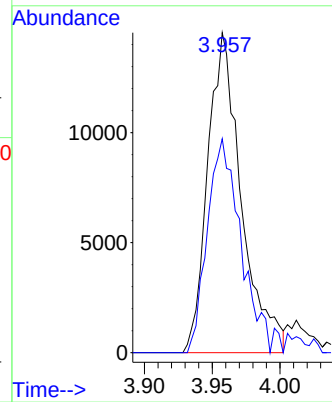
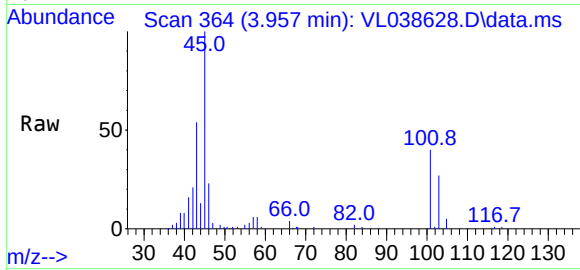
#11
Trichlorofluoromethane
Concen: 0.215 ppbv
RT: 3.957 min Scan# 30
Delta R.T. 0.013 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

Instrument :
MSVOA_L
ClientSampleId :
IA-1ADUP

Tgt Ion:101 Resp: 2507
Ion Ratio Lower Upper
101 100
103 66.8 52.0 78.0

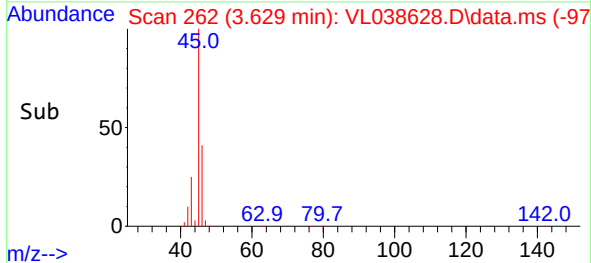
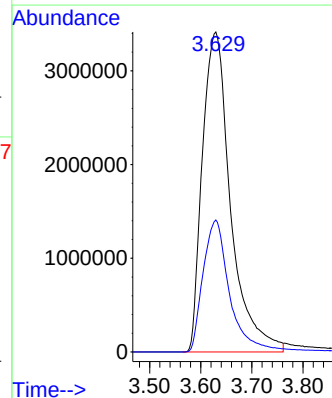
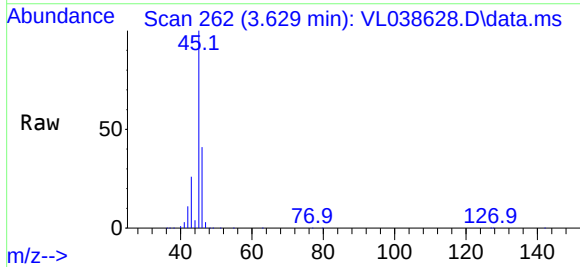
Manual Integrations
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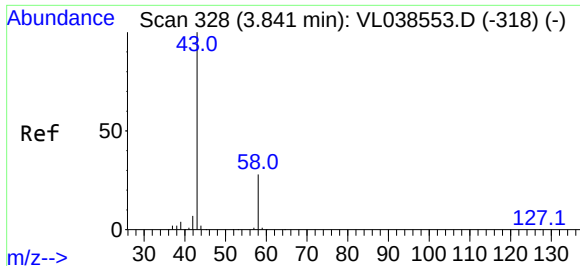
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#13
Ethanol
Concen: 2080.745 ppbv
RT: 3.629 min Scan# 262
Delta R.T. 0.029 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

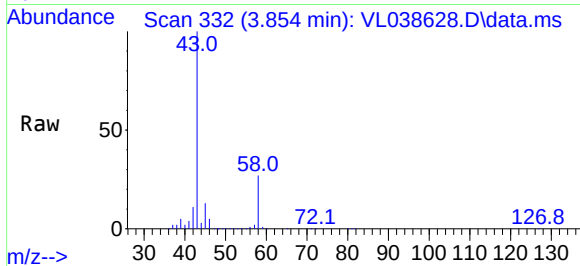
Tgt Ion: 45 Resp:13095185
Ion Ratio Lower Upper
45 100
46 39.9 16.8 67.0





#15
Acetone
Concen: 7.119 ppbv
RT: 3.854 min Scan# 311
Delta R.T. 0.013 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

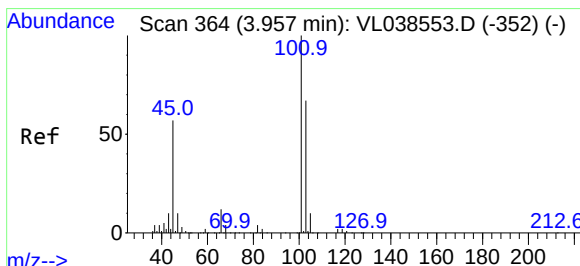
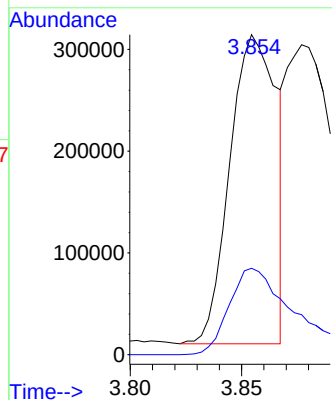
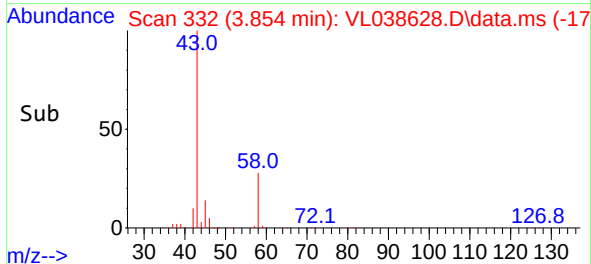
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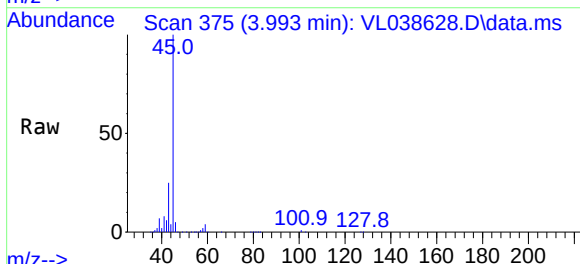
Tgt Ion: 43 Resp: 442154
Ion Ratio Lower Upper
43 100
58 43.0 22.7 34.1

Manual Integrations
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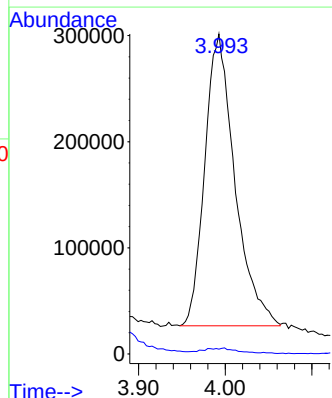
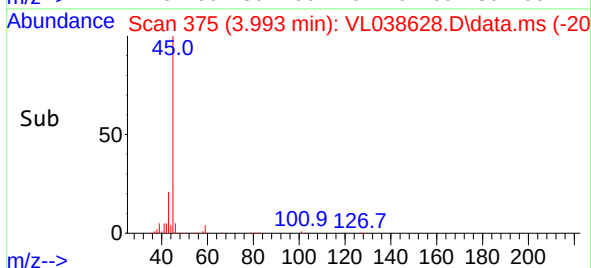
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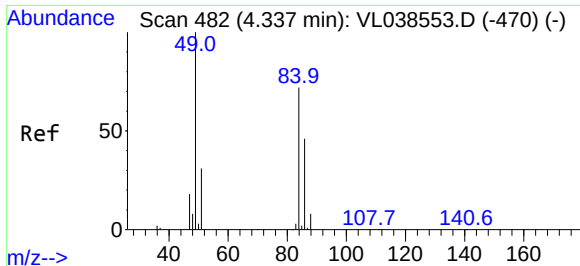


#19
Isopropyl Alcohol
Concen: 16.020 ppbv
RT: 3.993 min Scan# 375
Delta R.T. 0.036 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14



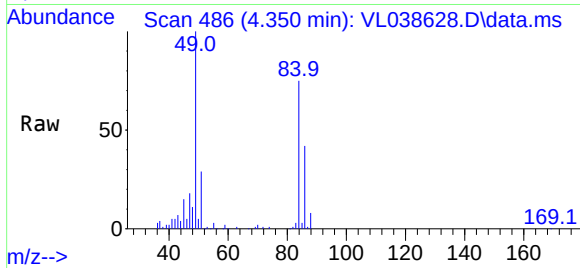
Tgt Ion: 45 Resp: 664400
Ion Ratio Lower Upper
45 100
58 2.6 2.2 3.2





#20
Methylene Chloride
Concen: 2.361 ppbv
RT: 4.350 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

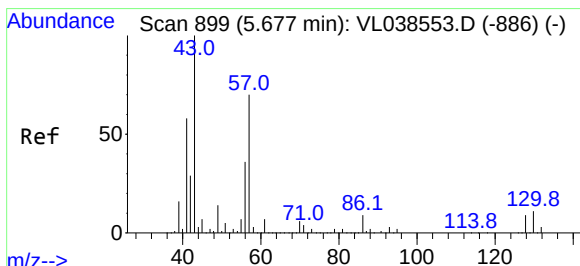
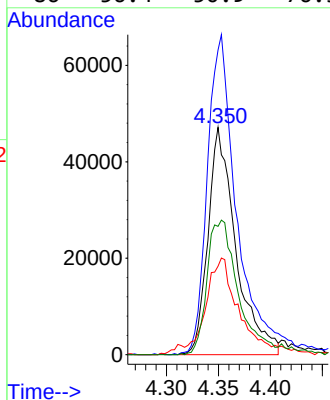
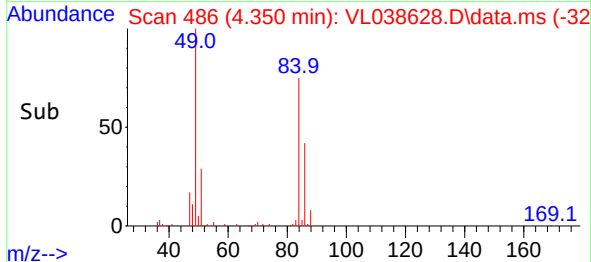
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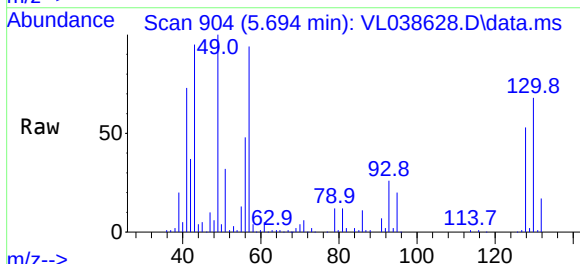
Tgt Ion:	84	Resp:	8824
Ion	Ratio	Lower	Upper
84	100		
49	134.0	111.1	166.7
51	35.4	34.0	51.0
86	56.4	50.9	76.3

Manual Integrations
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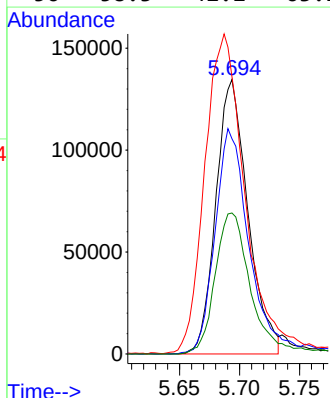
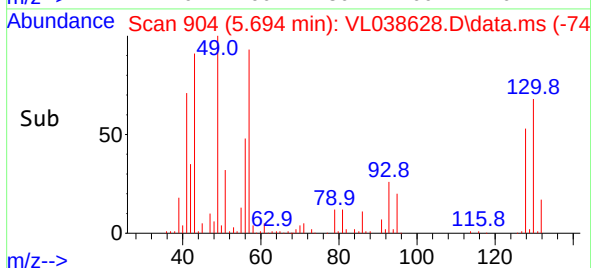
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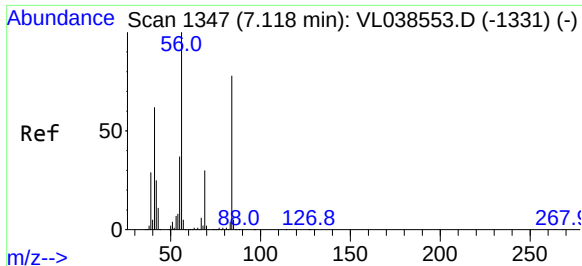


#26
Hexane
Concen: 2.542 ppbv
RT: 5.694 min Scan# 904
Delta R.T. 0.016 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14



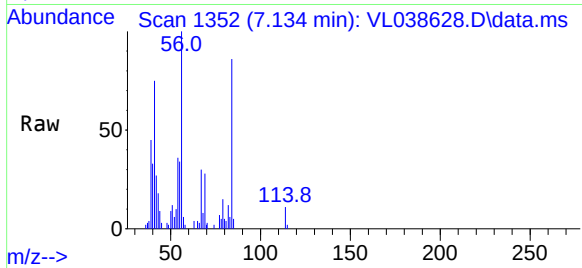
Tgt Ion:	57	Resp:	249708
Ion	Ratio	Lower	Upper
57	100		
41	90.5	67.8	101.6
43	152.6	173.6	260.4#
56	58.3	42.2	63.2





#30
Cyclohexane
Concen: 0.341 ppbv m
RT: 7.134 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

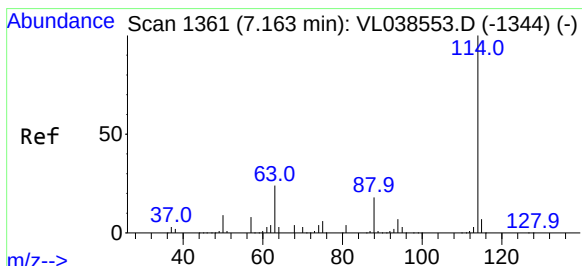
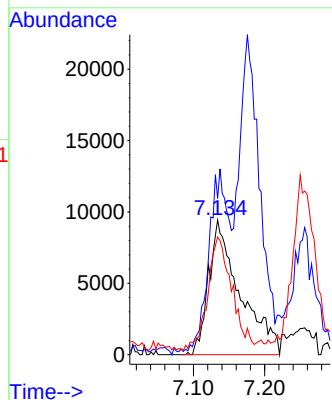
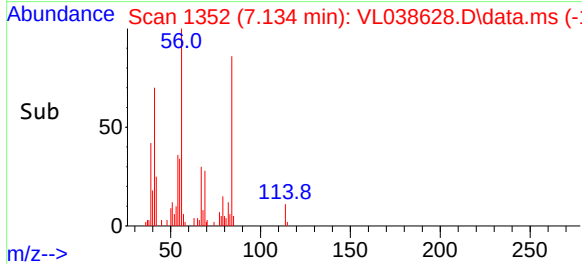
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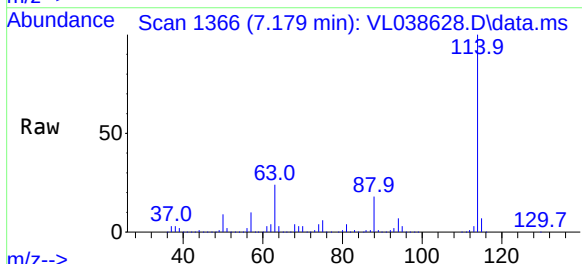
Tgt Ion: 84 Resp: 2899
Ion Ratio Lower Upper
84 100
56 0.0 111.4 167.0
41 69.6 65.5 98.3

Manual Integrations
APPROVED

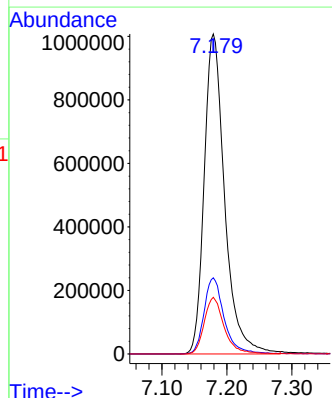
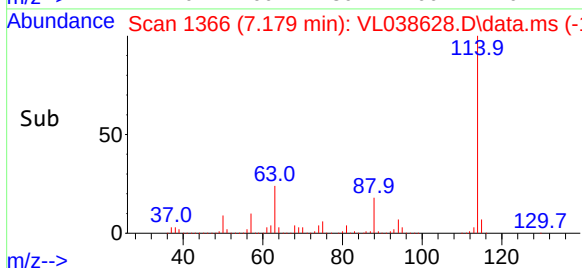
Reviewed By :Semsettin Yesilyurt 03/19/2022
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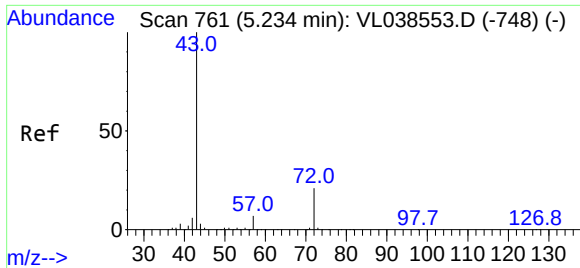


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.179 min Scan# 1366
Delta R.T. 0.016 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14



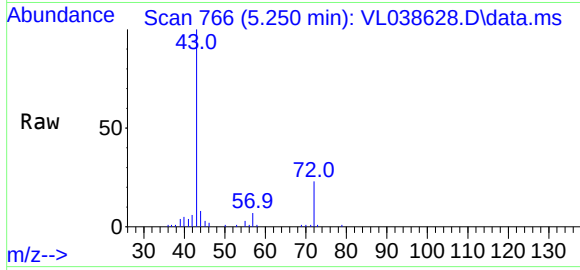
Tgt Ion:114 Resp: 2209292
Ion Ratio Lower Upper
114 100
63 23.6 19.6 29.4
88 17.4 13.9 20.9





#34
2-Butanone
Concen: 1.135 ppbv
RT: 5.250 min Scan# 761
Delta R.T. 0.016 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

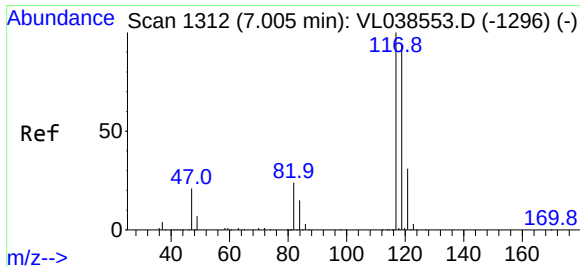
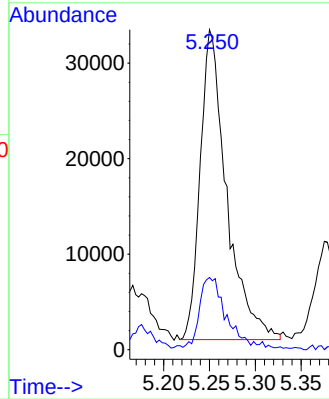
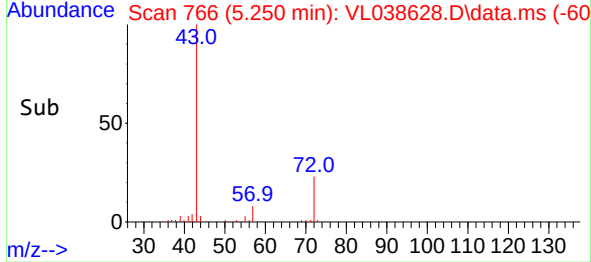
Instrument :
MSVOA_L
ClientSampleId :
IA-1ADUP



Tgt Ion: 43 Resp: 64979
Ion Ratio Lower Upper
43 100
72 25.4 17.8 26.6

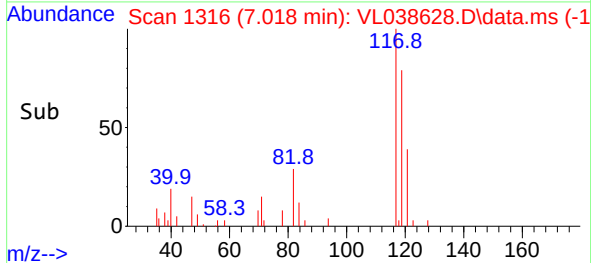
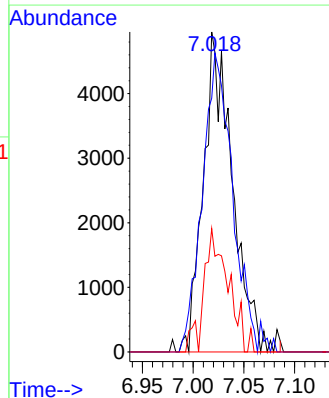
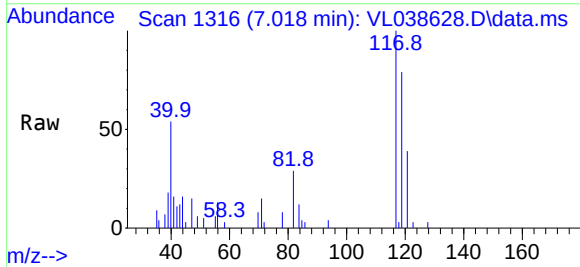
Manual Integrations
APPROVED

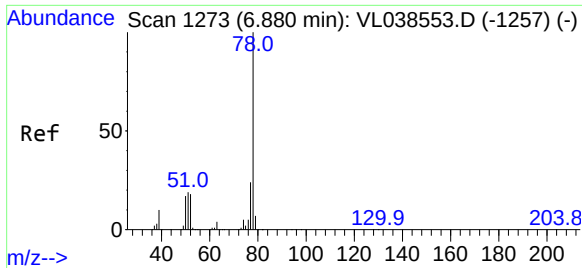
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 7.018 min Scan# 1316
Delta R.T. 0.013 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

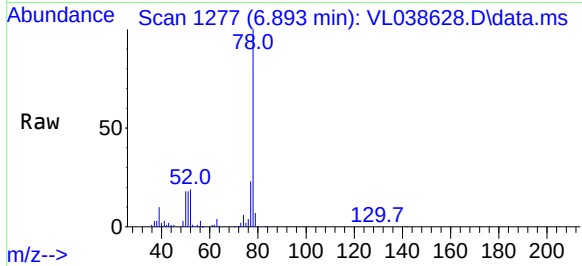
Tgt Ion:117 Resp: 9924
Ion Ratio Lower Upper
117 100
119 79.3 75.2 112.8
121 38.5 24.8 37.2#





#36
Benzene
Concen: 0.846 ppbv
RT: 6.893 min Scan# 1571
Delta R.T. 0.013 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

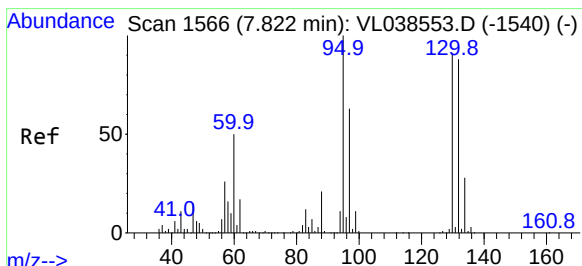
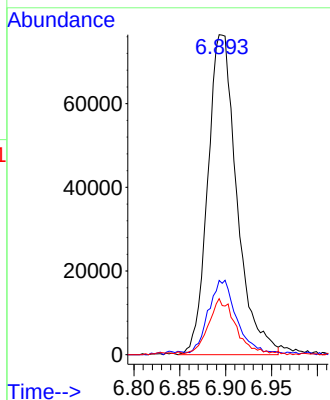
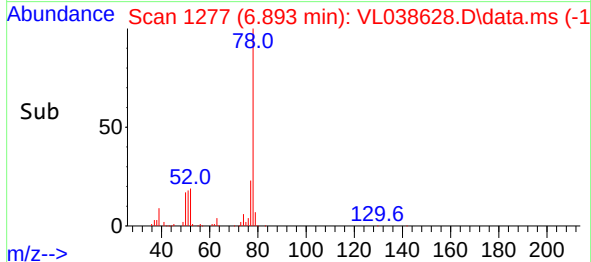
Instrument :
MSVOA_L
ClientSampleId :
IA-1ADUP



Tgt Ion: 78 Resp: 168600
Ion Ratio Lower Upper
78 100
77 22.5 19.0 28.4
50 16.6 13.9 20.9

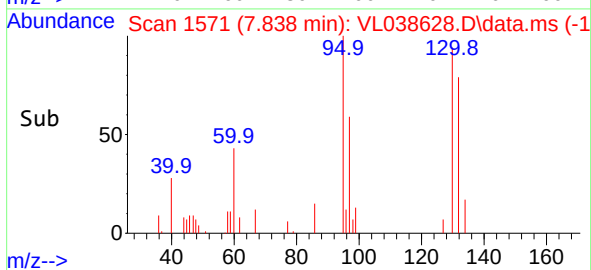
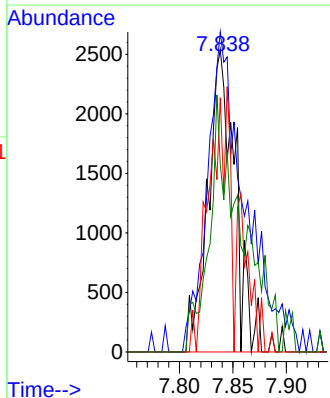
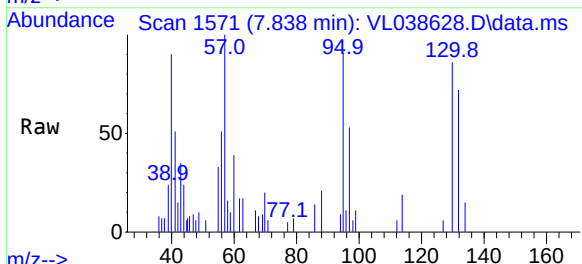
Manual Integrations
APPROVED

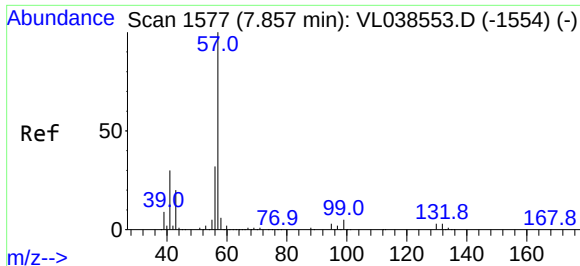
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#38
Trichloroethene
Concen: 0.057 ppbv m
RT: 7.838 min Scan# 1571
Delta R.T. 0.016 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

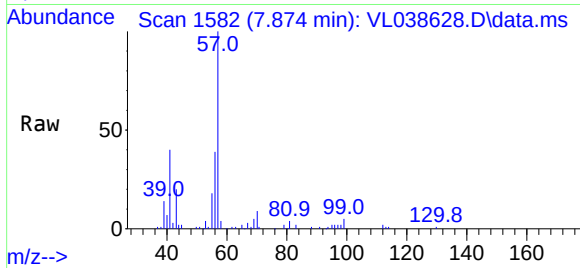
Tgt Ion:130 Resp: 4504
Ion Ratio Lower Upper
130 100
95 105.8 87.8 131.8
132 84.1 77.5 116.3
97 62.0 55.4 83.2





#44
2,2,4-Trimethylpentane
Concen: 0.288 ppbv
RT: 7.874 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

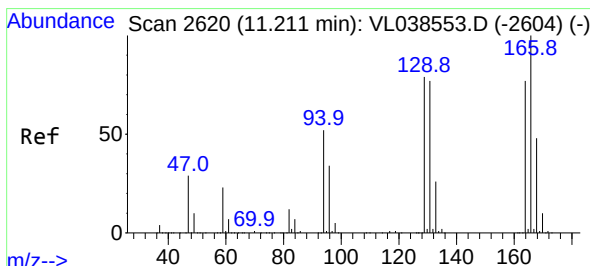
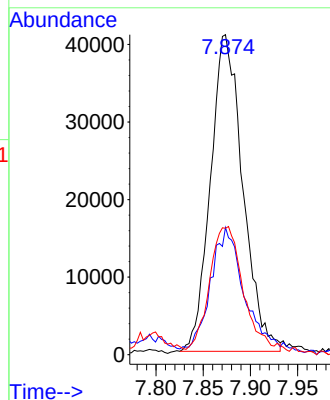
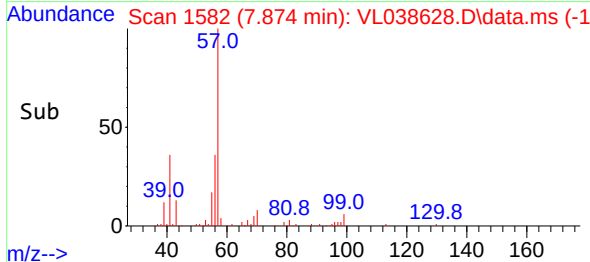
Instrument :
MSVOA_L
ClientSampleId :
IA-1ADUP



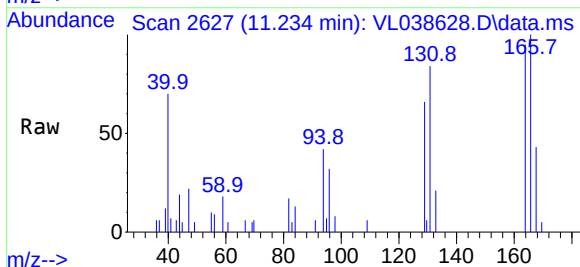
Tgt Ion: 57 Resp: 9704
Ion Ratio Lower Upper
57 100
41 43.4 24.0 36.0
56 45.3 25.6 38.4

Manual Integrations
APPROVED

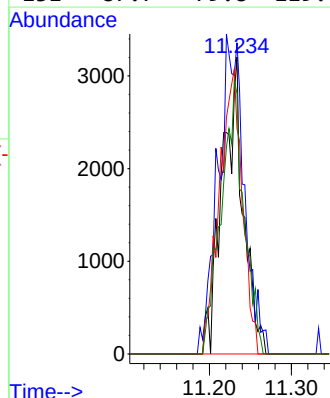
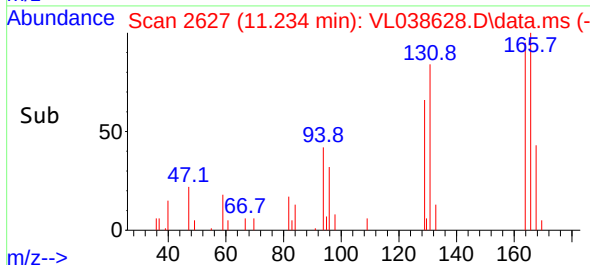
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022

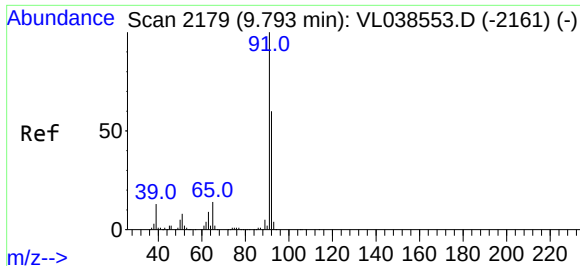


#52
Tetrachloroethene
Concen: 0.079 ppbv m
RT: 11.234 min Scan# 2627
Delta R.T. 0.023 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14



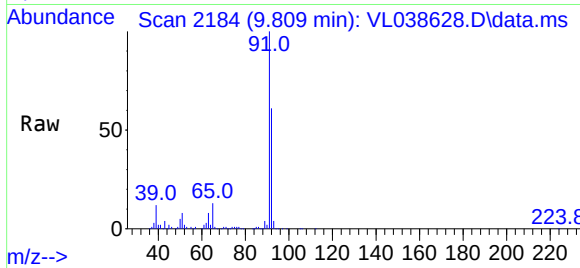
Tgt Ion:164 Resp: 5798
Ion Ratio Lower Upper
164 100
166 104.8 103.4 155.2
129 69.2 81.3 121.9#
131 87.7 79.8 119.8





#53
Toluene
Concen: 4.353 ppbv
RT: 9.809 min Scan# 2179
Delta R.T. 0.016 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

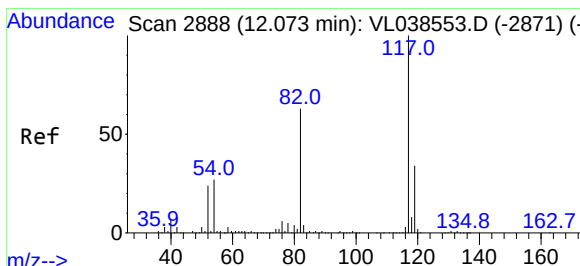
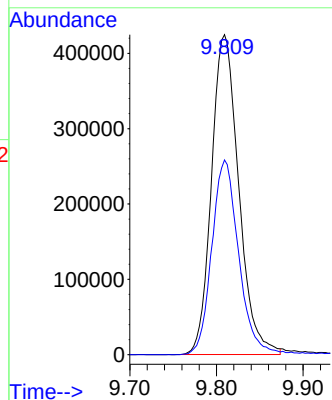
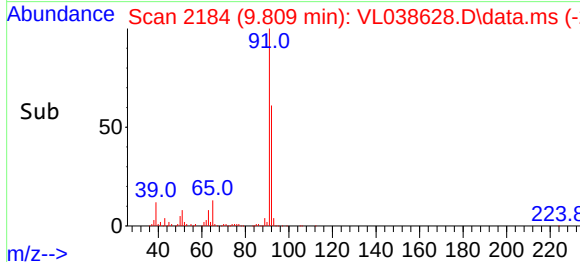
Instrument :
MSVOA_L
ClientSampleId :
IA-1ADUP



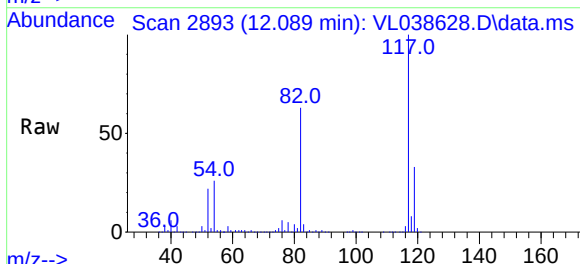
Tgt Ion: 91 Resp: 92641
Ion Ratio Lower Upper
91 100
92 61.1 48.1 72.1

Manual Integrations
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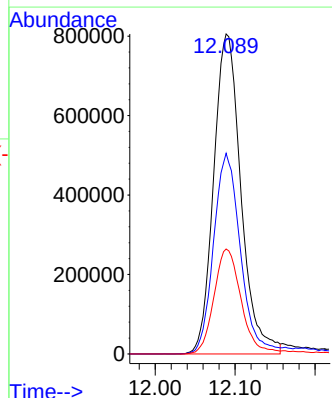
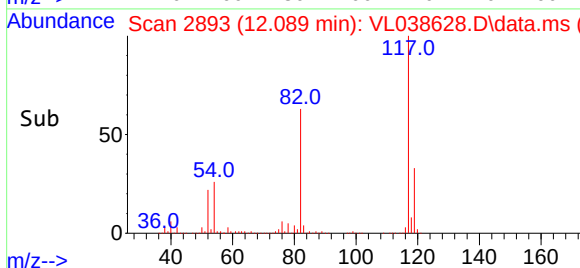
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022

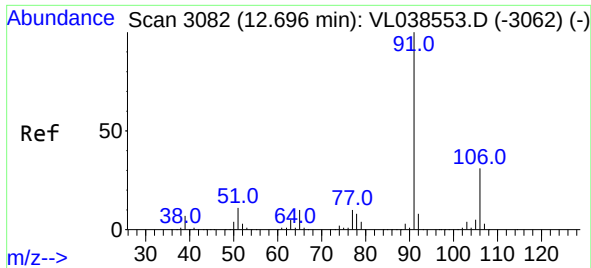


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.089 min Scan# 2893
Delta R.T. 0.016 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14



Tgt Ion:117 Resp: 1909691
Ion Ratio Lower Upper
117 100
82 65.4 52.5 78.7
119 34.4 46.4 69.6#





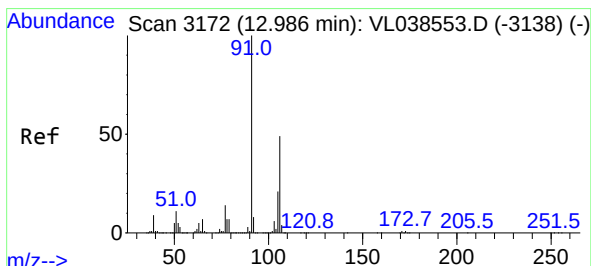
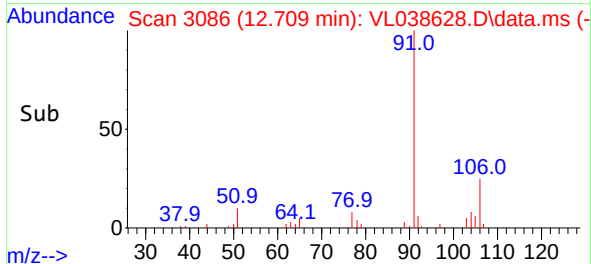
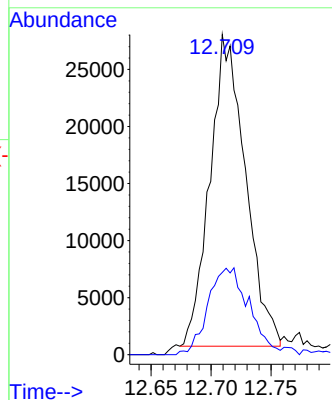
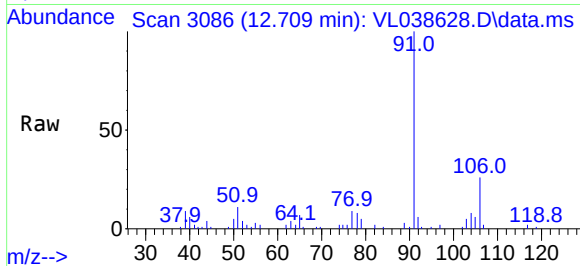
#58
Ethyl Benzene
Concen: 0.228 ppbv
RT: 12.709 min Scan# 3086
Delta R.T. 0.013 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

Instrument : MSVOA_L
ClientSampleId : IA-1ADUP

Tgt Ion: 91 Resp: 56340
Ion Ratio Lower Upper
91 100
106 27.1 24.6 37.0

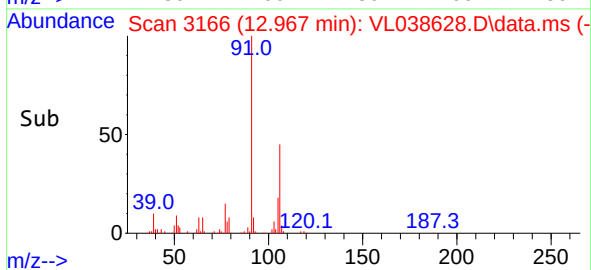
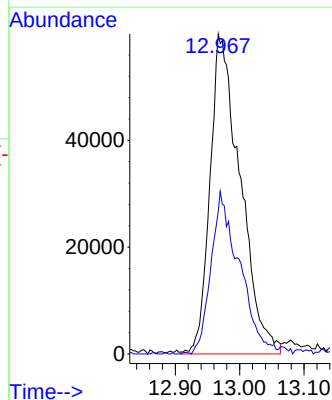
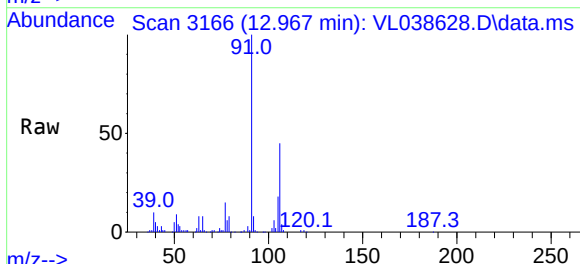
Manual Integrations
APPROVED

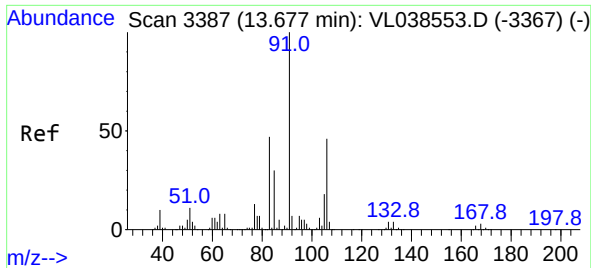
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#59
m/p-Xylene
Concen: 0.924 ppbv m
RT: 12.967 min Scan# 3166
Delta R.T. -0.019 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

Tgt Ion: 91 Resp: 195515
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#





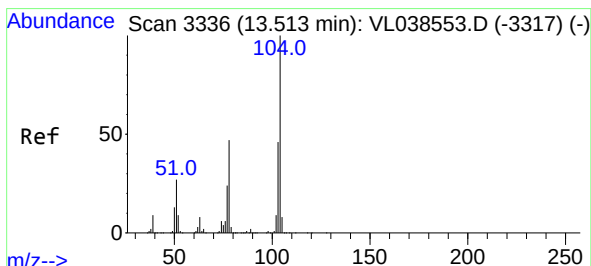
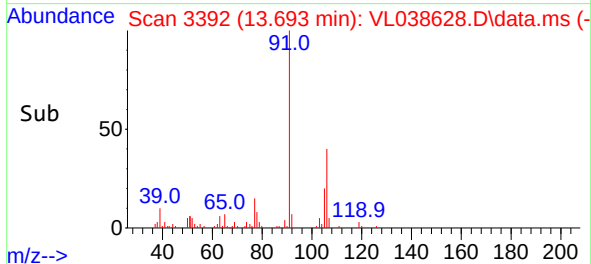
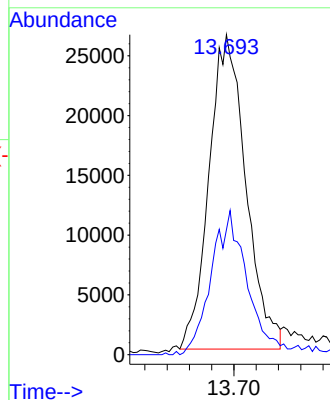
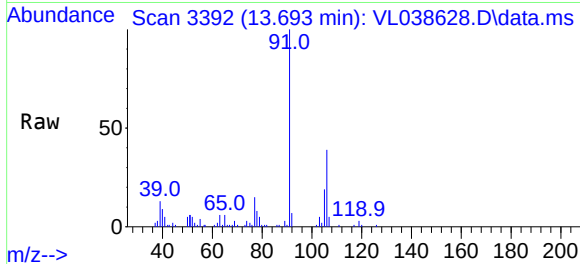
#60
o-Xylene
Concen: 0.303 ppbv
RT: 13.693 min Scan# 3392
Delta R.T. 0.016 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

Instrument :
MSVOA_L
ClientSampleId :
IA-1ADUP

Tgt Ion: 91 Resp: 60529
Ion Ratio Lower Upper
91 100
106 46.9 23.5 70.6

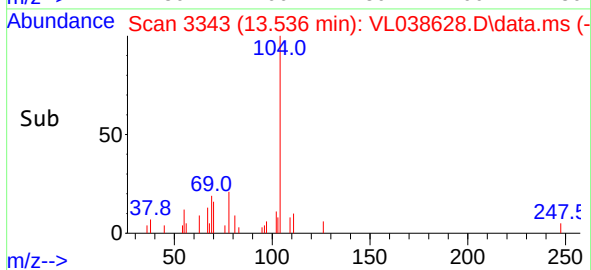
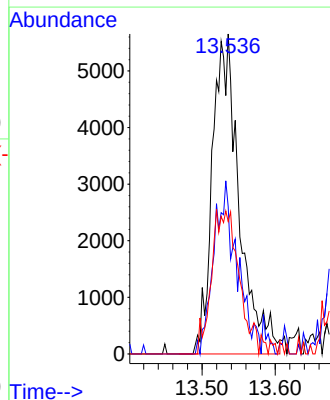
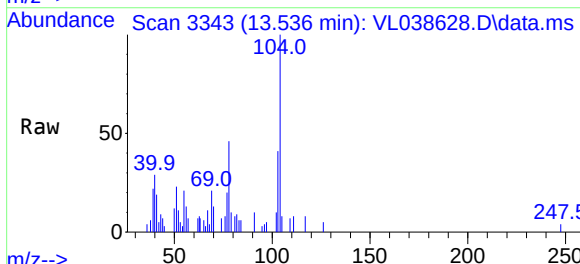
Manual Integrations
APPROVED

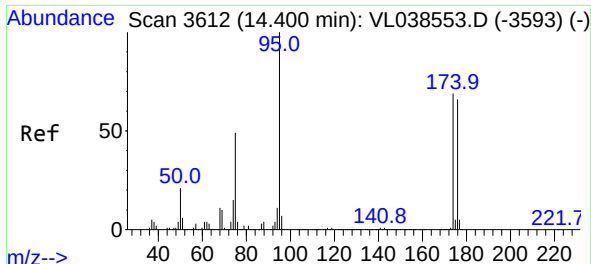
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#61
Styrene
Concen: 0.146 ppbv m
RT: 13.536 min Scan# 3343
Delta R.T. 0.023 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

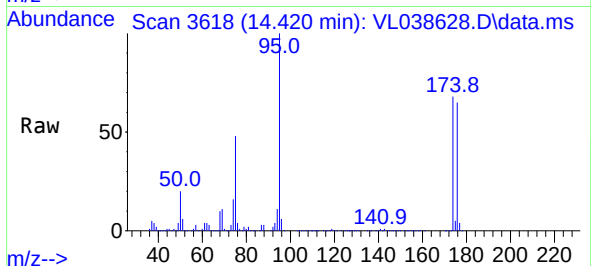
Tgt Ion:104 Resp: 14404
Ion Ratio Lower Upper
104 100
78 51.1 39.0 58.4
103 0.0 38.0 57.0#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.430 ppbv
RT: 14.420 min Scan# 30
Delta R.T. 0.020 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14

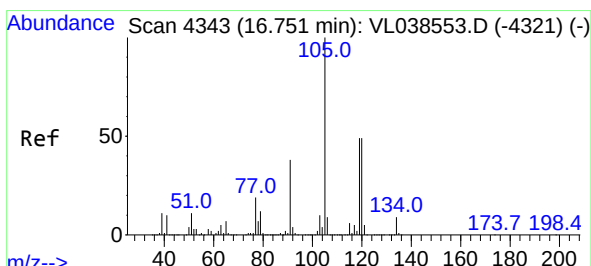
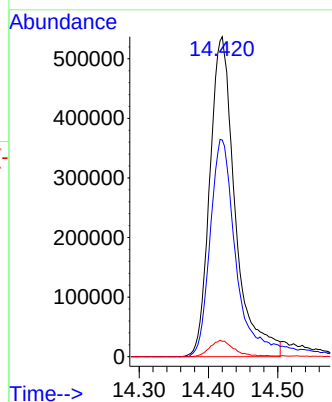
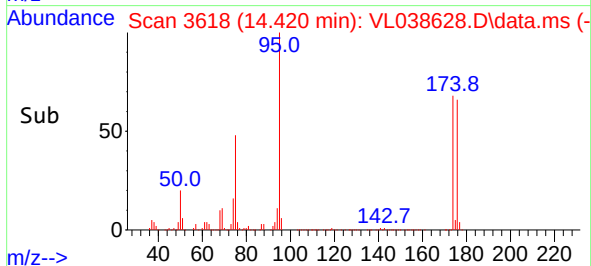
Instrument :
MSVOA_L
ClientSampleId :
IA-1ADUP



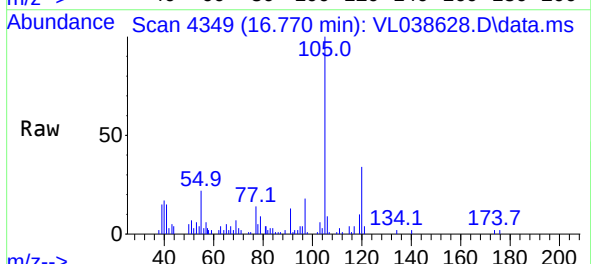
Tgt Ion: 95 Resp: 136919
Ion Ratio Lower Upper
95 100
174 73.1 56.2 84.4
175 5.3 4.2 6.2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#74
1,2,4-Trimethylbenzene
Concen: 0.199 ppbv m
RT: 16.770 min Scan# 4349
Delta R.T. 0.020 min
Lab File: VL038628.D
Acq: 17 Mar 2022 16:14



Tgt Ion:105 Resp: 45247
Ion Ratio Lower Upper
105 100
120 34.1 38.9 58.3#
91 12.6 30.6 46.0#
77 14.3 15.2 22.8#

