

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040522\
 Data File : VL038827.D
 Acq On : 6 Apr 2022 10:26
 Operator : SY/AP
 Sample : N2159-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-18DDUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/07/2022
 Supervised By : Mahesh Dadoda 04/07/2022

Quant Time: Apr 07 03:12:02 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Apr 6 2022

QLast Update : Wed Apr 06 06:12:53 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.677	49	1403678	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	7.185	114	3629471	10.000	ppbv	0.01
55) Chlorobenzene-d5	12.095	117	3139291	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.420	95	2456606	10.316	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.060	85	47121	0.237	ppbv	100
3) Chlorodifluoromethane	2.999	51	71768m	0.419	ppbv	
4) Chloromethane	3.157	50	47464	0.535	ppbv	100
9) Propene	3.035	41	59145	0.653	ppbv #	74
10) Heptane	8.131	43	46874	0.205	ppbv	98
11) Trichlorofluoromethane	3.961	101	39578m	0.247	ppbv	
13) Ethanol	3.613	45	7131128	1294.681	ppbv #	100
15) Acetone	3.861	43	398479m	2.851	ppbv	
17) tert-Butyl alcohol	4.311	59	32999m	0.263	ppbv	
19) Isopropyl Alcohol	3.980	45	391705	5.484	ppbv #	100
20) Methylene Chloride	4.356	84	136130	2.686	ppbv	85
26) Hexane	5.700	57	440053	2.726	ppbv #	43
27) Carbon Disulfide	4.565	76	89682	0.606	ppbv #	83
29) Chloroform	5.761	83	165032	0.731	ppbv	94
30) Cyclohexane	7.140	84	20943m	0.147	ppbv	
34) 2-Butanone	5.256	43	43131	0.301	ppbv	92
35) Carbon Tetrachloride	7.028	117	18800m	0.086	ppbv	
36) Benzene	6.902	78	79692m	0.241	ppbv	
38) Trichloroethene	7.845	130	197643	1.459	ppbv	94
44) 2,2,4-Trimethylpentane	7.877	57	113876	0.204	ppbv #	83
52) Tetrachloroethene	11.224	164	13347m	0.116	ppbv	
53) Toluene	9.816	91	702790	1.844	ppbv	98
58) Ethyl Benzene	12.716	91	74016m	0.158	ppbv	
59) m/p-Xylene	12.973	91	208884m	0.530	ppbv	
60) o-Xylene	13.696	91	73379	0.199	ppbv	100
69) p-Isopropyltoluene	17.664	119	62428m	0.110	ppbv	
74) 1,2,4-Trimethylbenzene	16.767	105	61315m	0.147	ppbv	

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

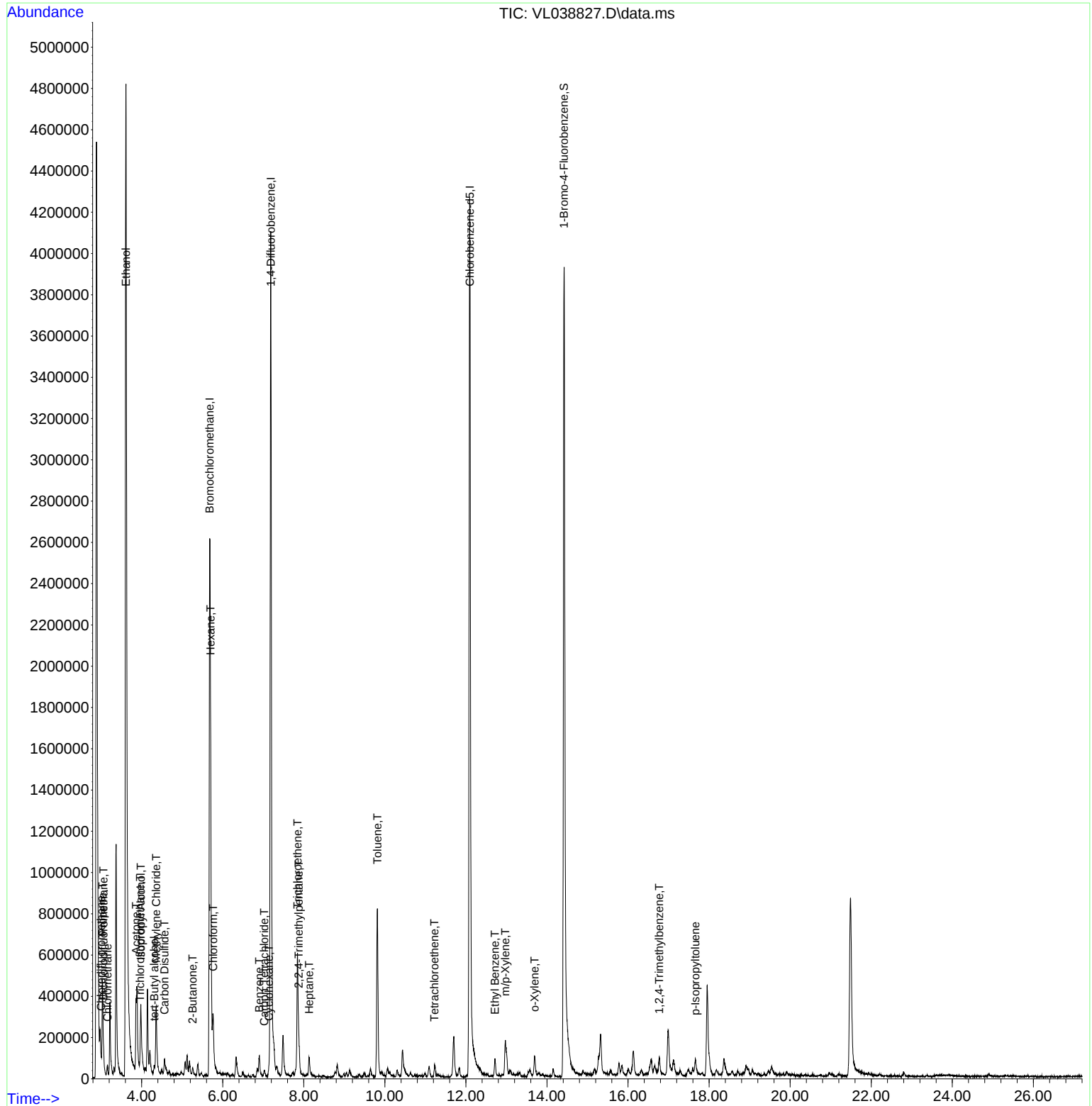
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040522\
Data File : VL038827.D
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Misc : 400mL/MSVOA_L
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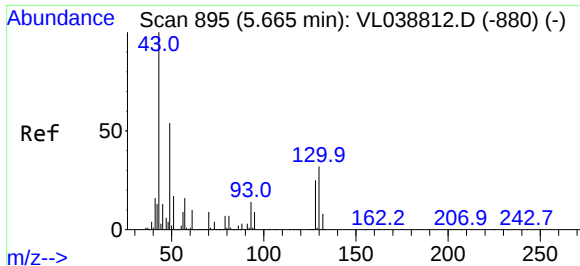
Instrument :
MSVOA_L
ClientSampleId :
IA-18DDUP

Quant Time: Apr 07 03:12:02 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr
QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

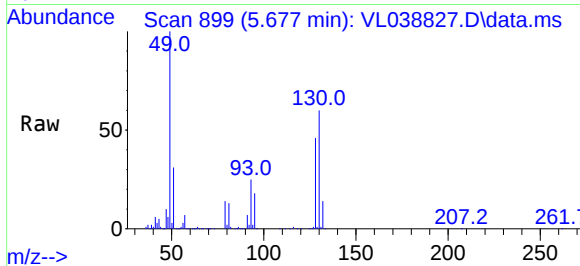
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.677 min Scan# 899
Delta R.T. 0.013 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

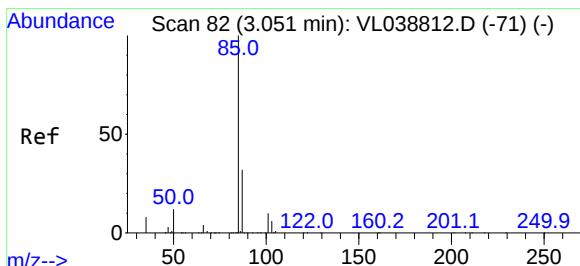
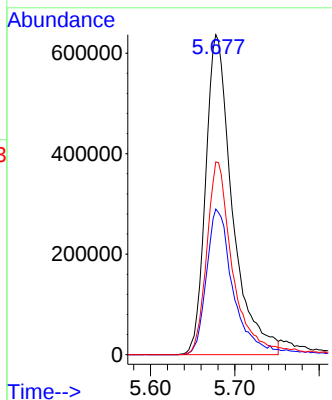
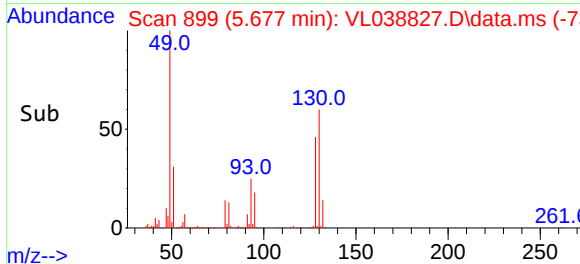
Instrument :
MSVOA_L
ClientSampleId :
IA-18DDUP



Tgt Ion: 49 Resp: 1403678
Ion Ratio Lower Upper
49 100
128 46.4 24.1 72.3
130 60.3 30.9 92.8

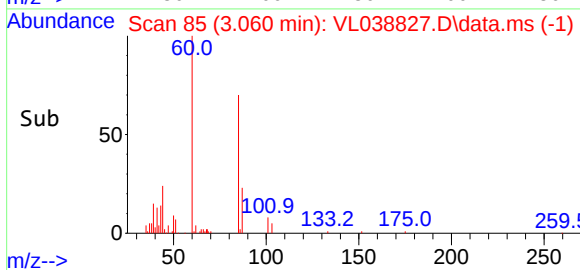
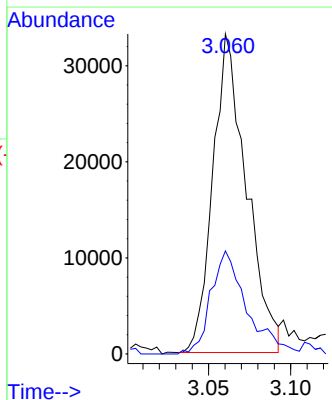
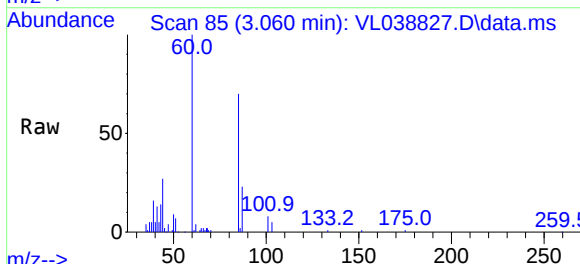
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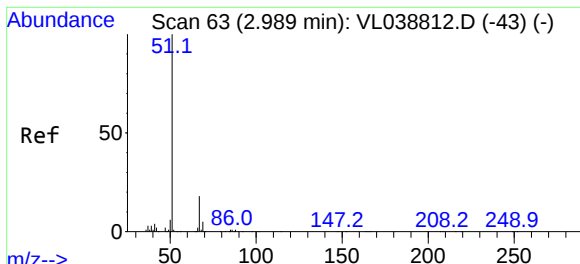
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#2
Dichlorodifluoromethane
Concen: 0.237 ppbv
RT: 3.060 min Scan# 85
Delta R.T. 0.010 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

Tgt Ion: 85 Resp: 47121
Ion Ratio Lower Upper
85 100
87 32.3 25.9 38.9





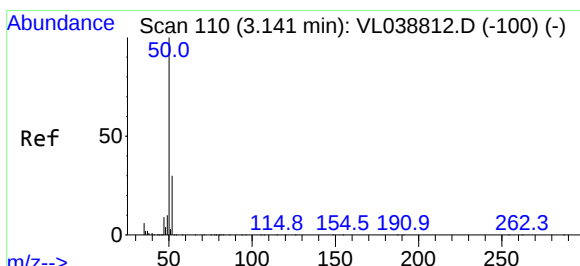
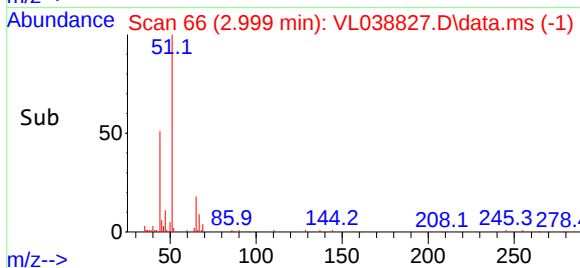
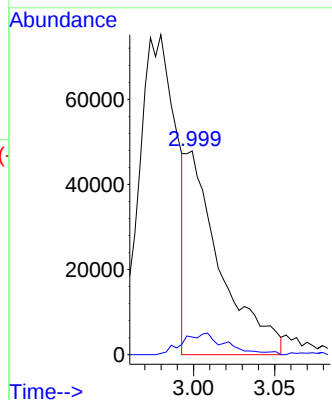
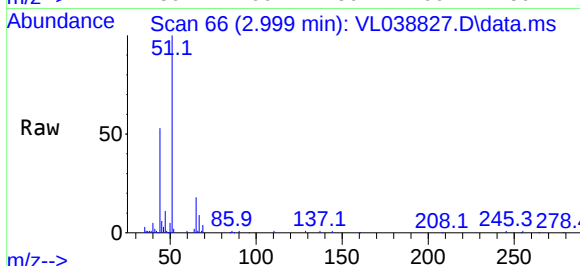
#3
Chlorodifluoromethane
Concen: 0.419 ppbv m
RT: 2.999 min Scan# 60
Delta R.T. 0.010 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

Instrument :
MSVOA_L
ClientSampleId :
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Tgt Ion: 51 Resp: 71768
Ion Ratio Lower Upper
51 100
67 14.0 13.4 20.0

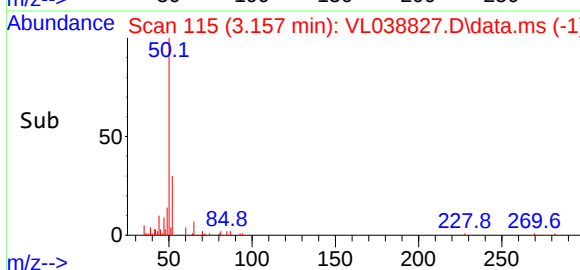
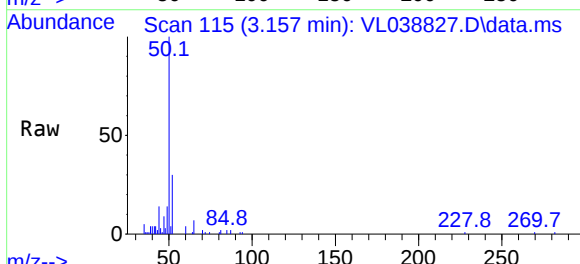
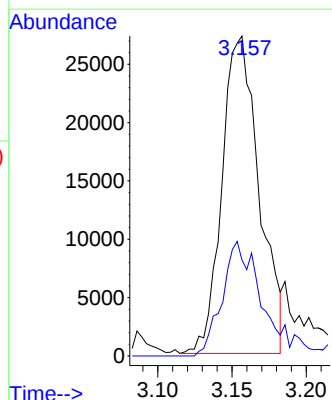
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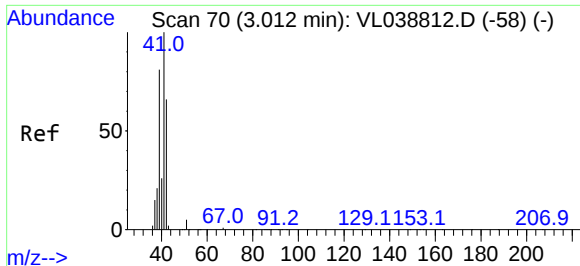
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#4
Chloromethane
Concen: 0.535 ppbv
RT: 3.157 min Scan# 115
Delta R.T. 0.016 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

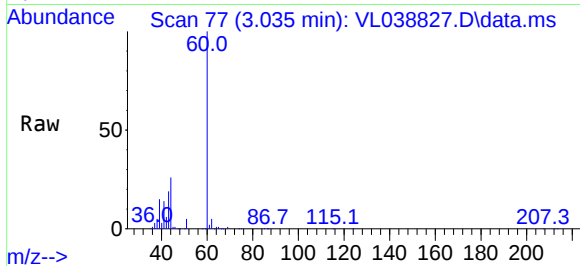
Tgt Ion: 50 Resp: 47464
Ion Ratio Lower Upper
50 100
52 30.2 24.3 36.5





#9
Propene
Concen: 0.653 ppbv
RT: 3.035 min Scan# 71
Delta R.T. 0.023 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

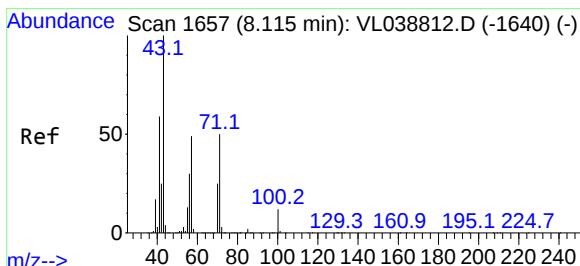
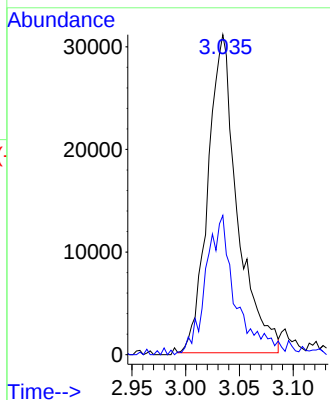
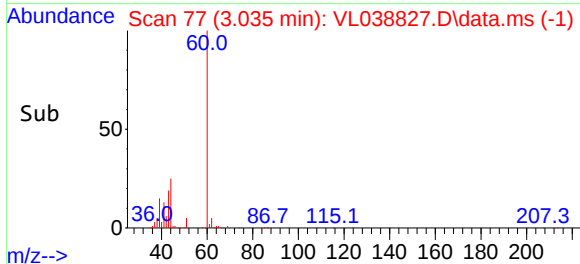
Instrument :
MSVOA_L
ClientSampleId :
IA-18DDUP



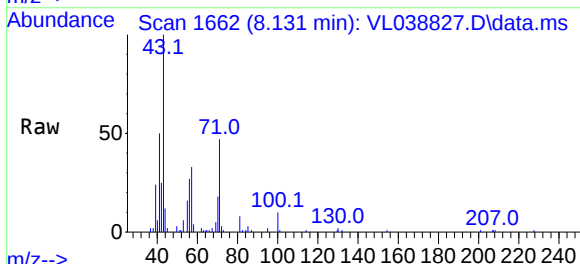
Tgt Ion: 41 Resp: 5914
Ion Ratio Lower Upper
41 100
42 46.8 54.2 81.4

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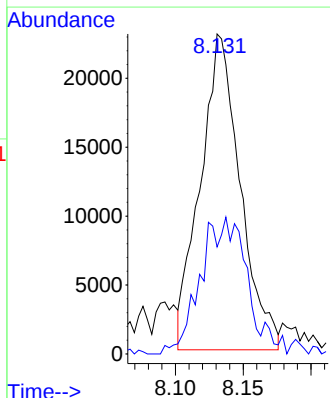
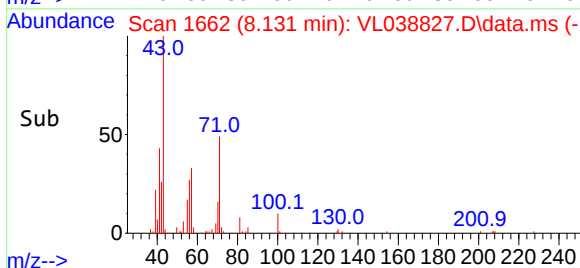
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022

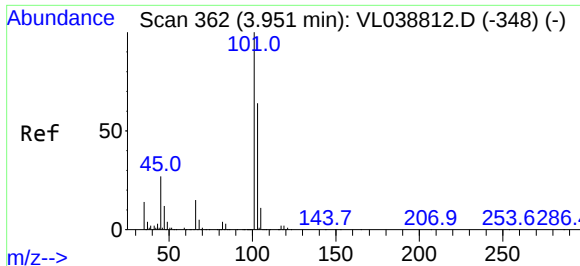


#10
Heptane
Concen: 0.205 ppbv
RT: 8.131 min Scan# 1662
Delta R.T. 0.016 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26



Tgt Ion: 43 Resp: 46874
Ion Ratio Lower Upper
43 100
57 50.7 39.3 58.9





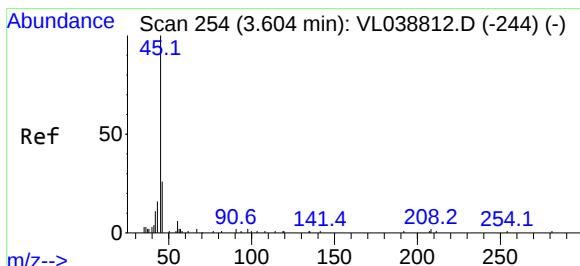
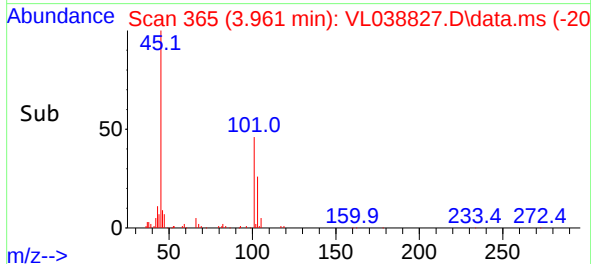
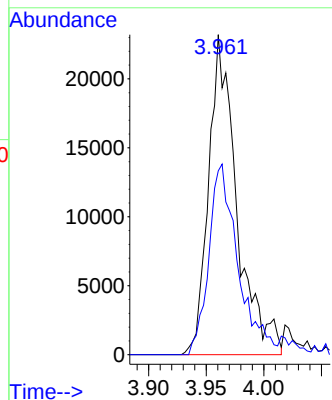
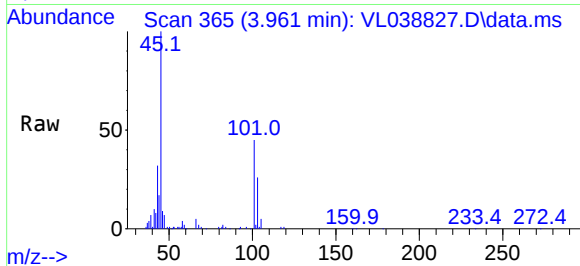
#11
Trichlorofluoromethane
Concen: 0.247 ppbv m
RT: 3.961 min Scan# 30
Delta R.T. 0.010 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

Instrument :
MSVOA_L
ClientSampleId :
IA-18DDUP

Tgt Ion:101 Resp: 39578
Ion Ratio Lower Upper
101 100
103 57.5 51.4 77.0

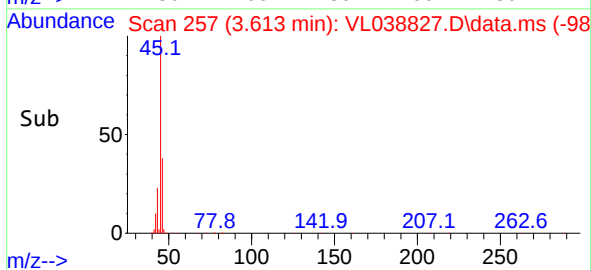
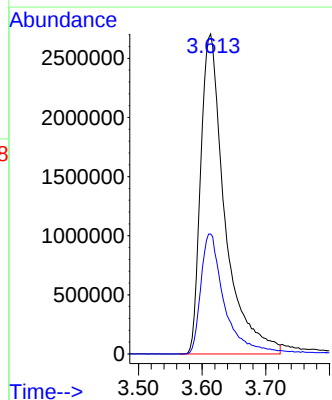
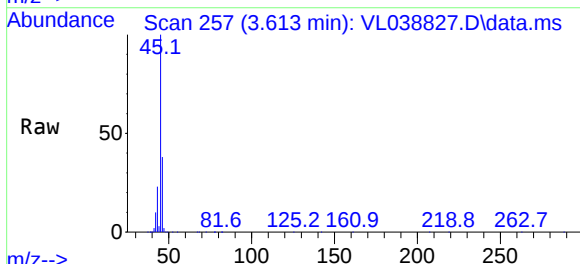
Manual Integrations
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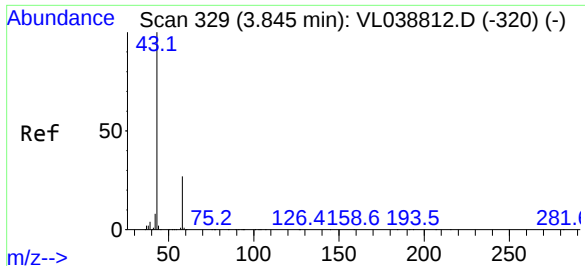
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#13
Ethanol
Concen: 1294.681 ppbv
RT: 3.613 min Scan# 257
Delta R.T. 0.010 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

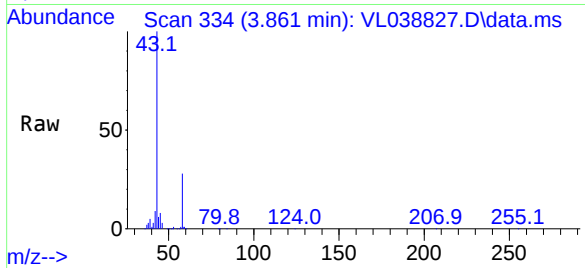
Tgt Ion: 45 Resp: 7131128
Ion Ratio Lower Upper
45 100
46 37.6 0.0 0.0#





#15
Acetone
Concen: 2.851 ppbv m
RT: 3.861 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

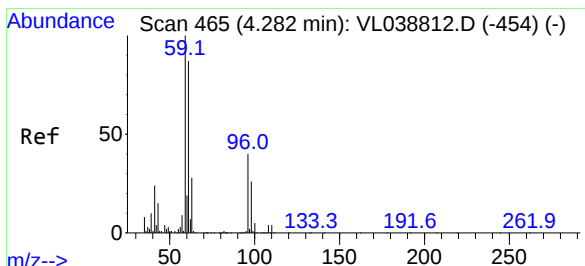
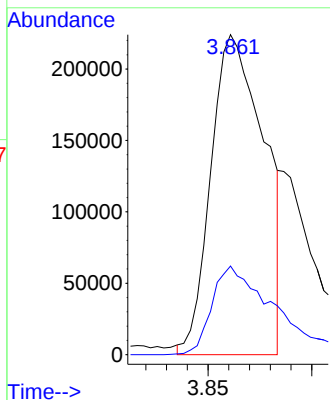
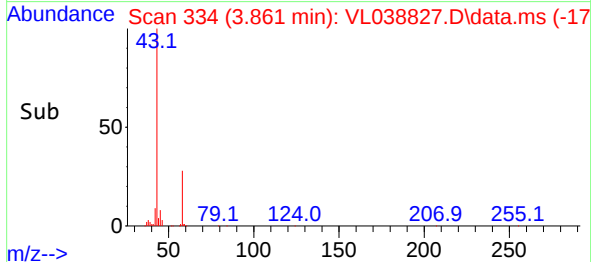
Instrument :
MSVOA_L
ClientSampleId :
IA-18DDUP



Tgt Ion: 43 Resp: 398479
Ion Ratio Lower Upper
43 100
58 37.0 22.5 33.7

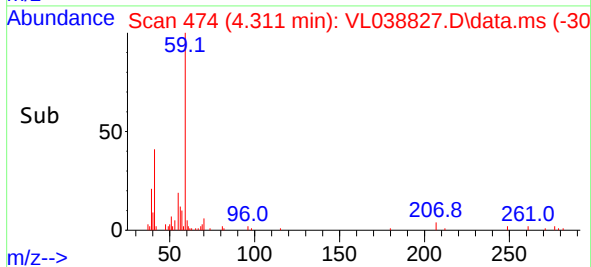
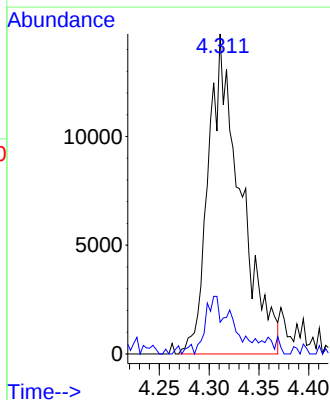
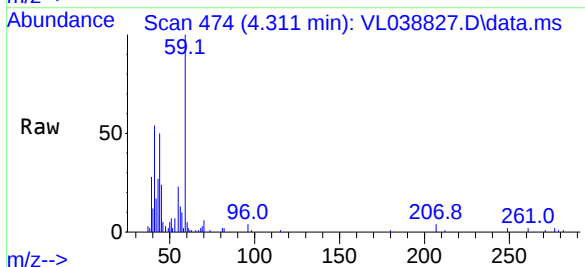
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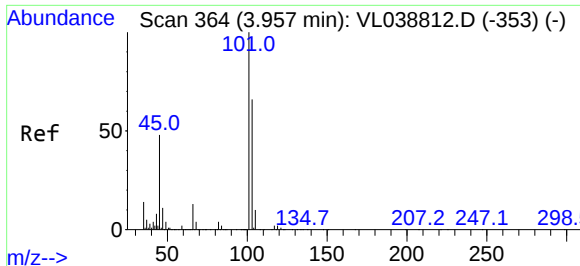
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#17
tert-Butyl alcohol
Concen: 0.263 ppbv m
RT: 4.311 min Scan# 474
Delta R.T. 0.029 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

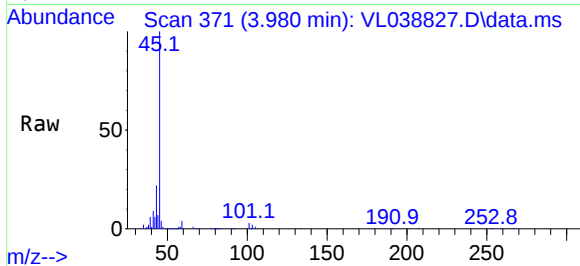
Tgt Ion: 59 Resp: 32999
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7





#19
Isopropyl Alcohol
Concen: 5.484 ppbv
RT: 3.980 min Scan# 31
Delta R.T. 0.023 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

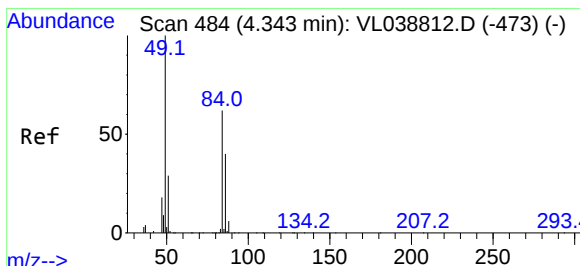
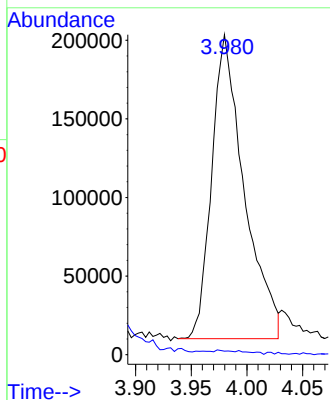
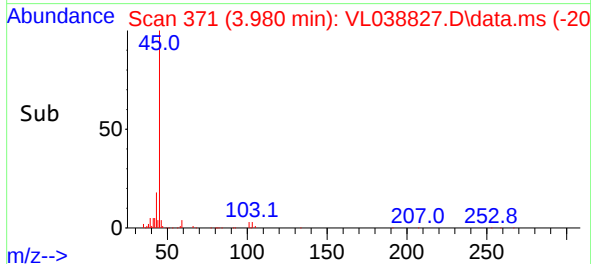
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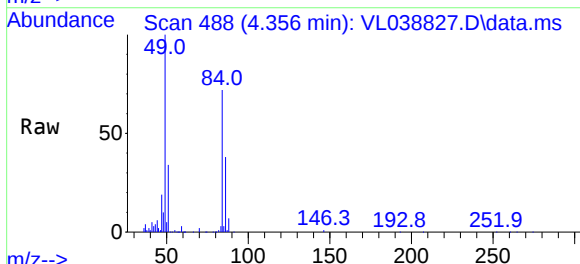
Tgt Ion: 45 Resp: 39170
Ion Ratio Lower Upper
45 100
58 1.2 0.0 0.0

Manual Integrations
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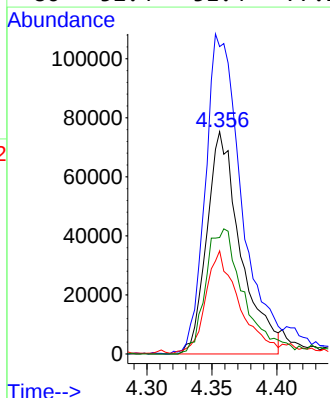
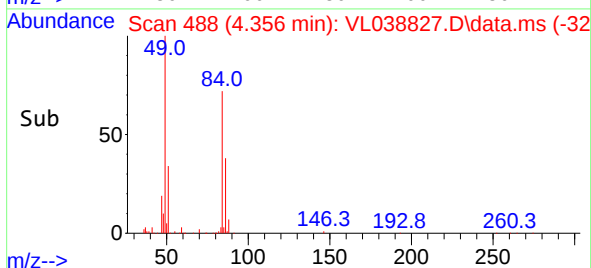
Reviewed By :Semsettin Yesilyurt 04/07/2022
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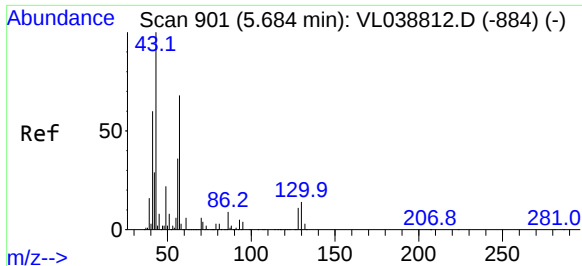


#20
Methylene Chloride
Concen: 2.686 ppbv
RT: 4.356 min Scan# 488
Delta R.T. 0.013 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26



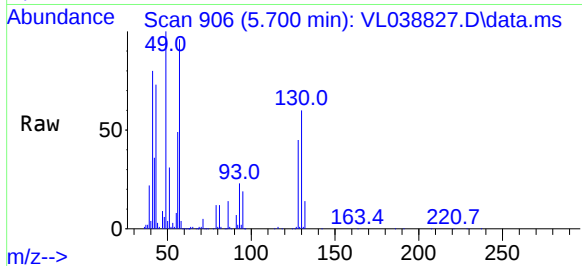
Tgt Ion: 84 Resp: 136130
Ion Ratio Lower Upper
84 100
49 137.5 129.4 194.0
51 45.1 37.4 56.2
86 52.4 51.4 77.2





#26
Hexane
Concen: 2.726 ppbv
RT: 5.700 min Scan# 901
Delta R.T. 0.016 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

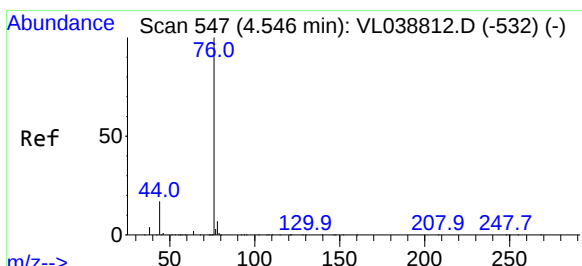
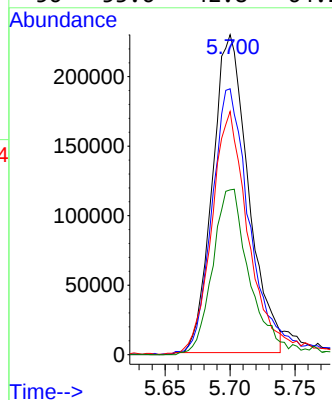
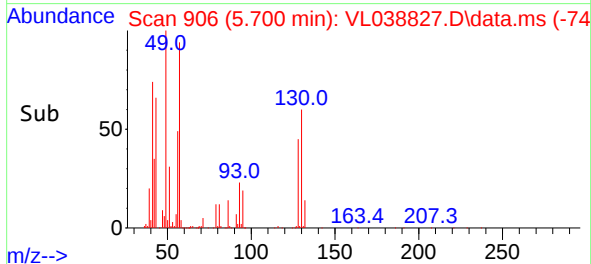
Instrument :
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Tgt Ion: 57 Resp: 440053
Ion Ratio Lower Upper
57 100
41 90.9 72.0 108.0
43 81.3 186.6 280.0
56 53.6 42.8 64.2

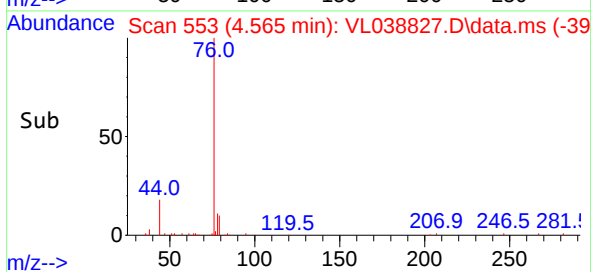
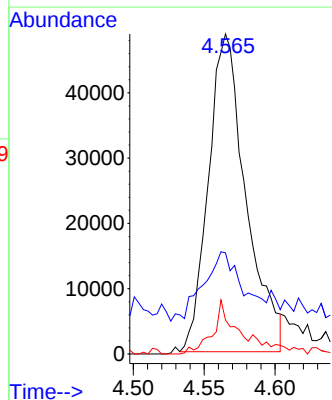
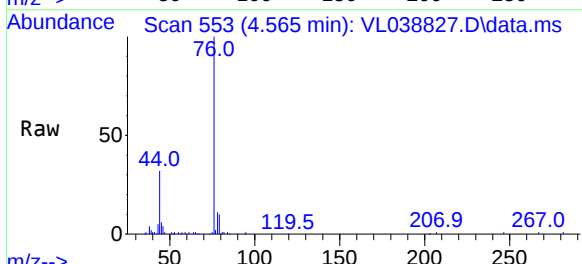
Manual Integrations
APPROVED

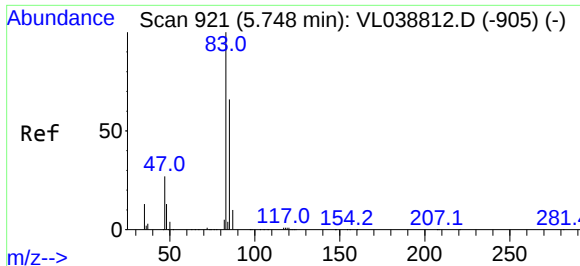
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#27
Carbon Disulfide
Concen: 0.606 ppbv
RT: 4.565 min Scan# 553
Delta R.T. 0.019 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

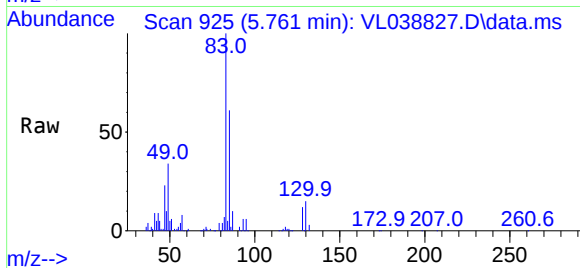
Tgt Ion: 76 Resp: 89682
Ion Ratio Lower Upper
76 100
44 28.5 15.7 23.5#
78 13.9 7.8 11.8#





#29
Chloroform
Concen: 0.731 ppbv
RT: 5.761 min Scan# 91
Delta R.T. 0.013 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

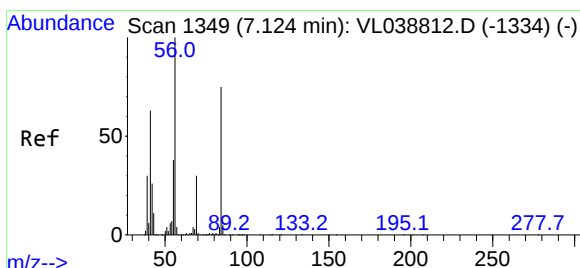
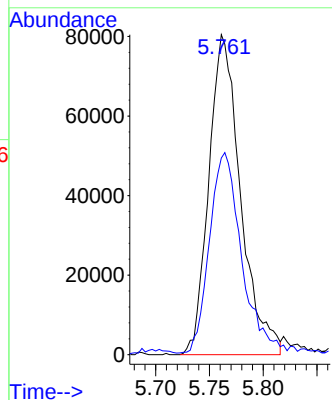
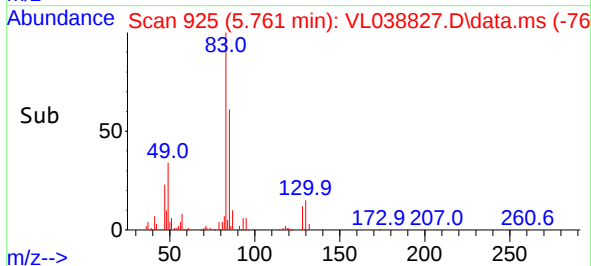
Instrument :
MSVOA_L
ClientSampleId :
IA-18DDUP



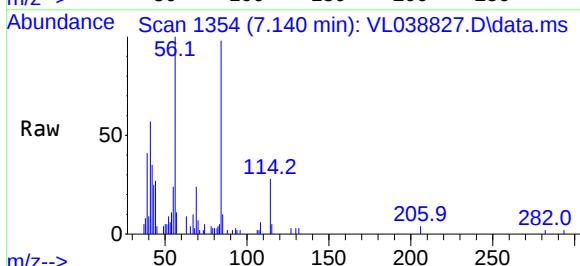
Tgt Ion: 83 Resp: 16503
Ion Ratio Lower Upper
83 100
85 60.9 52.5 78.7

Manual Integrations
APPROVED

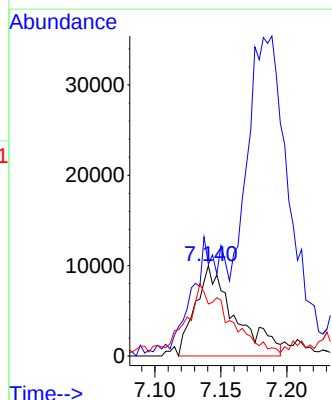
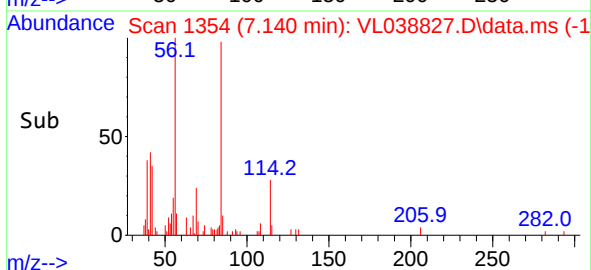
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022

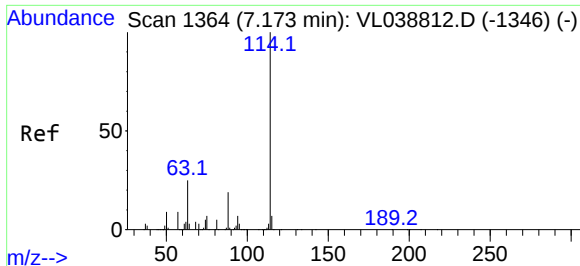


#30
Cyclohexane
Concen: 0.147 ppbv m
RT: 7.140 min Scan# 1354
Delta R.T. 0.016 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26



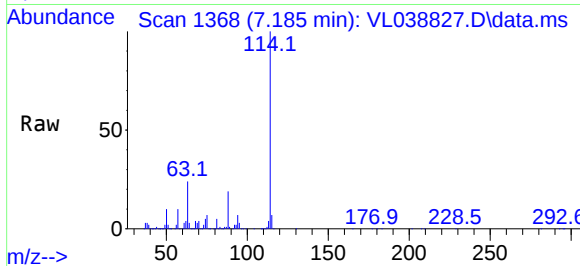
Tgt Ion: 84 Resp: 20943
Ion Ratio Lower Upper
84 100
56 0.0 114.4 171.6#
41 84.2 69.0 103.4





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.185 min Scan# 114
Delta R.T. 0.013 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

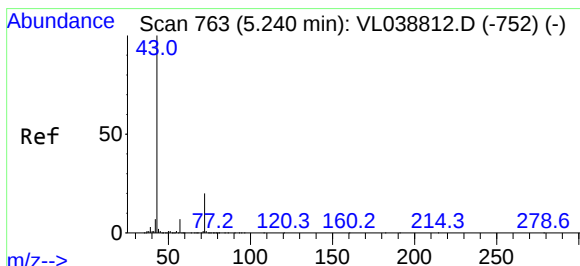
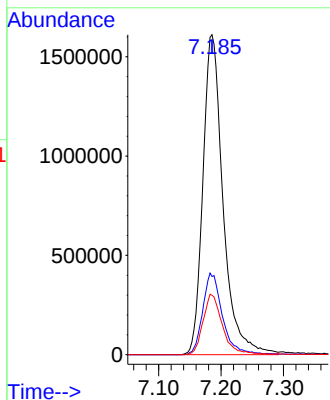
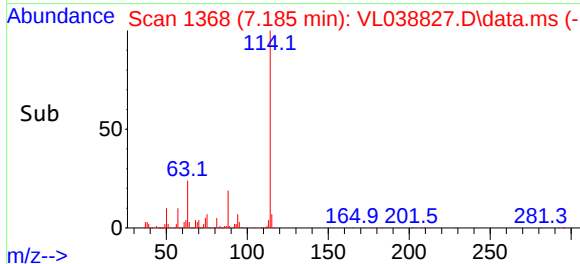
Instrument :
MSVOA_L
ClientSampleId :
IA-18DDUP



Tgt Ion:114 Resp: 362947
Ion Ratio Lower Upper
114 100
63 25.2 19.8 29.8
88 18.4 14.2 21.4

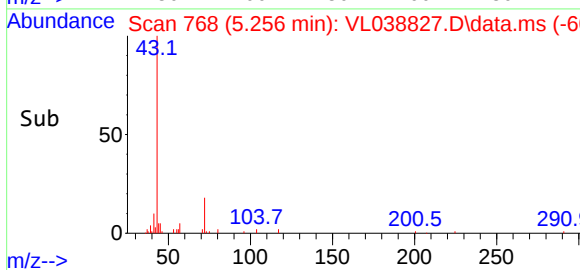
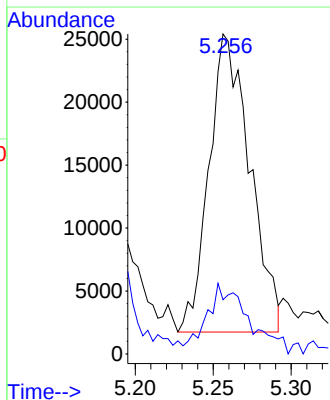
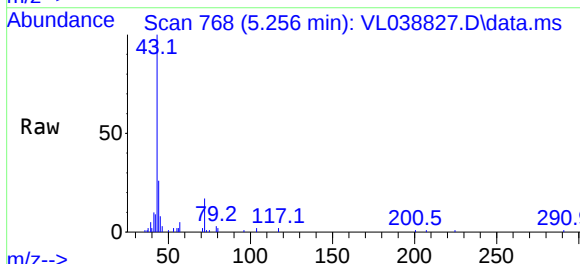
Manual Integrations
APPROVED

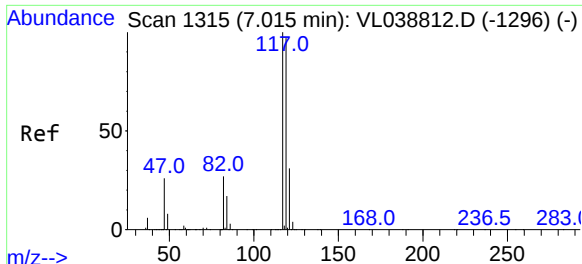
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#34
2-Butanone
Concen: 0.301 ppbv
RT: 5.256 min Scan# 768
Delta R.T. 0.016 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

Tgt Ion: 43 Resp: 43131
Ion Ratio Lower Upper
43 100
72 24.9 16.9 25.3





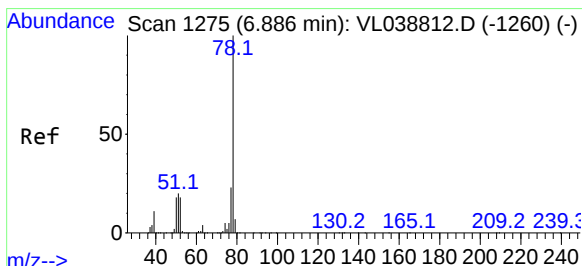
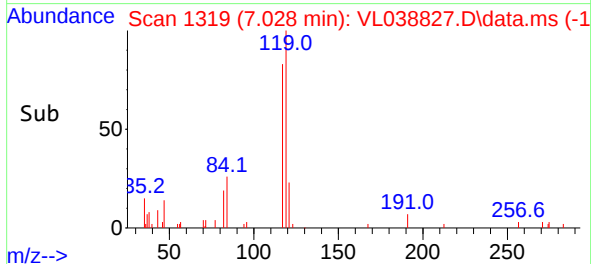
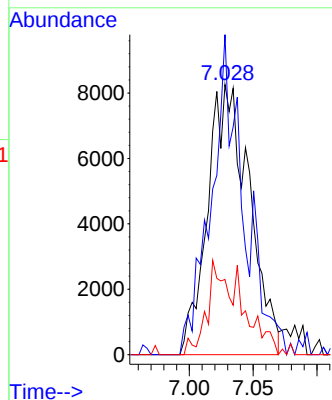
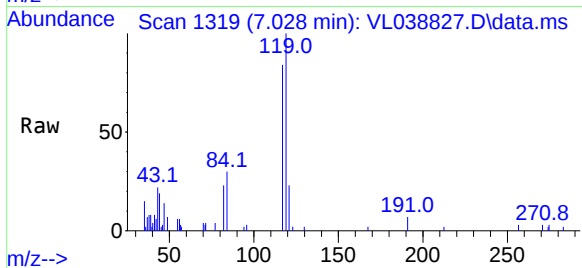
#35
Carbon Tetrachloride
Concen: 0.086 ppbv m
RT: 7.028 min Scan# 117
Delta R.T. 0.013 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

Instrument :
MSVOA_L
ClientSampleId :
IA-18DDUP

Tgt Ion: 117 Resp: 18800
Ion Ratio Lower Upper
117 100
119 118.5 77.7 116.5
121 27.8 24.5 36.7

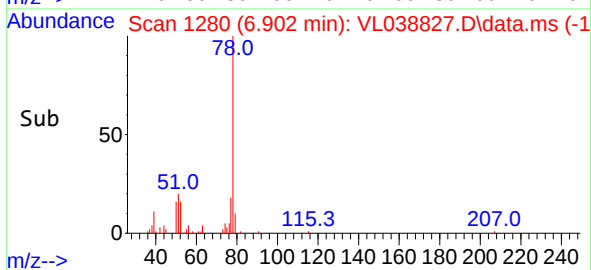
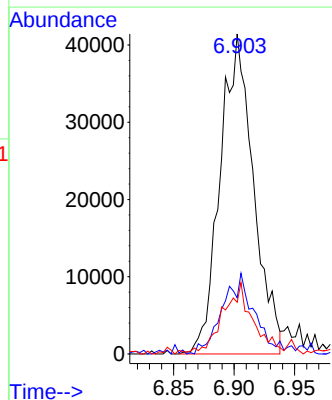
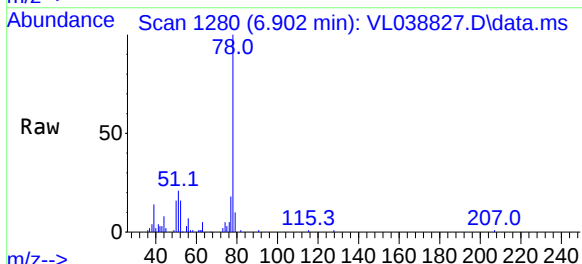
Manual Integrations
APPROVED

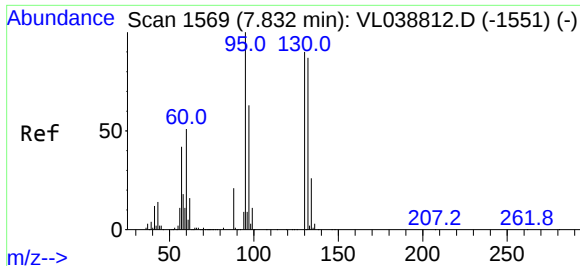
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#36
Benzene
Concen: 0.241 ppbv m
RT: 6.902 min Scan# 1280
Delta R.T. 0.016 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

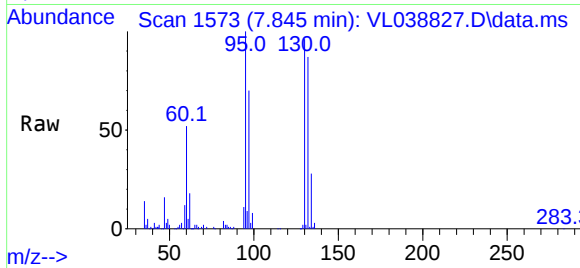
Tgt Ion: 78 Resp: 79692
Ion Ratio Lower Upper
78 100
77 17.6 18.2 27.2
50 16.2 14.0 21.0





#38
Trichloroethene
Concen: 1.459 ppbv
RT: 7.845 min Scan# 1569
Delta R.T. 0.013 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

Instrument :
MSVOA_L
ClientSampleId :
IA-18DDUP

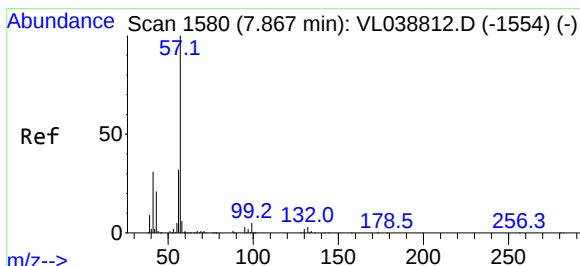
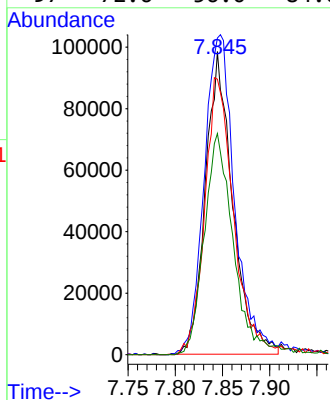
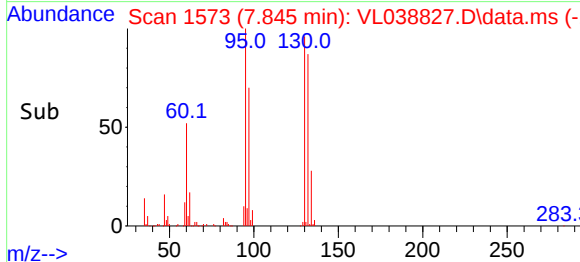


Tgt Ion:130 Resp: 19764

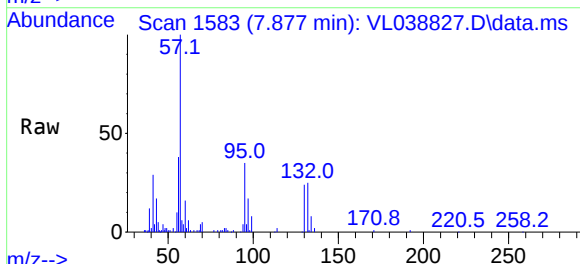
Ion	Ratio	Lower	Upper
130	100		
95	103.3	89.4	134.0
132	90.6	77.7	116.5
97	72.6	56.0	84.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022

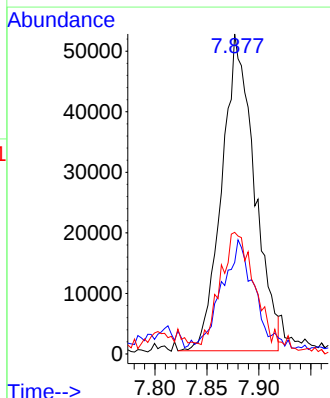
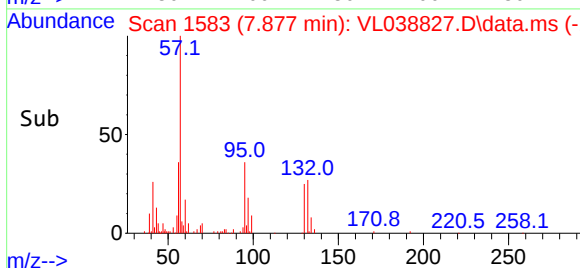


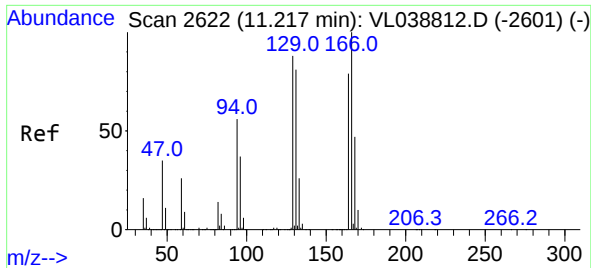
#44
2,2,4-Trimethylpentane
Concen: 0.204 ppbv
RT: 7.877 min Scan# 1583
Delta R.T. 0.010 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26



Tgt Ion: 57 Resp: 113876

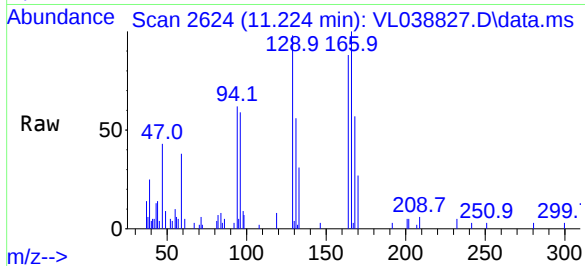
Ion	Ratio	Lower	Upper
57	100		
41	37.2	25.0	37.4
56	43.8	25.3	37.9





#52
Tetrachloroethene
Concen: 0.116 ppbv m
RT: 11.224 min Scan# 2186
Delta R.T. 0.006 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

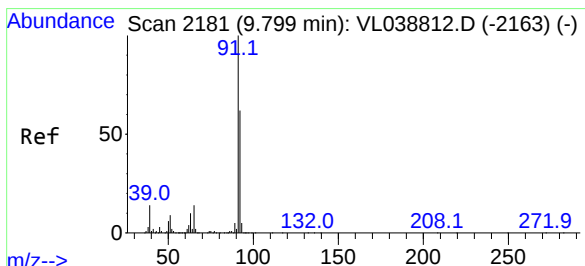
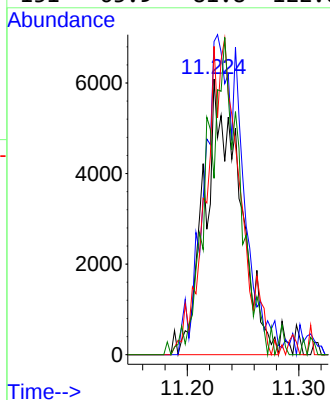
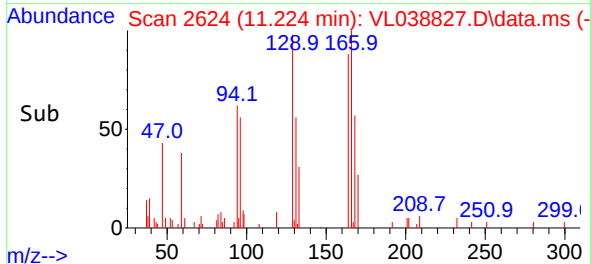
Instrument :
MSVOA_L
ClientSampleId :
IA-18DDUP



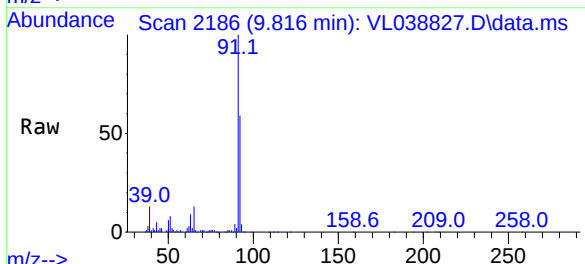
Tgt Ion:164 Resp: 1334
Ion Ratio Lower Upper
164 100
166 113.5 101.0 151.6
129 111.8 88.7 133.1
131 63.9 81.8 122.6#

Manual Integrations
APPROVED

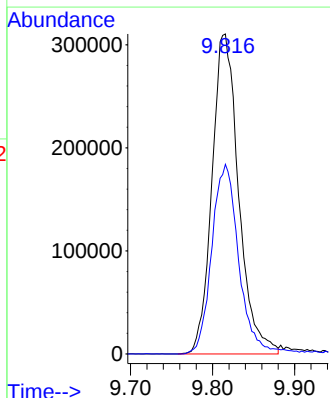
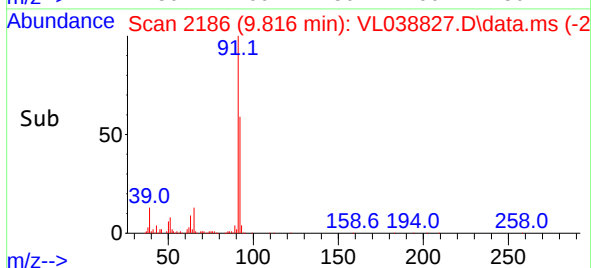
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022

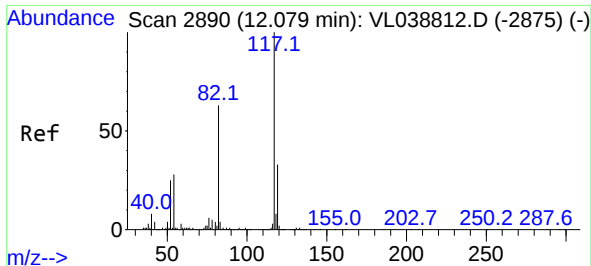


#53
Toluene
Concen: 1.844 ppbv
RT: 9.816 min Scan# 2186
Delta R.T. 0.016 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26



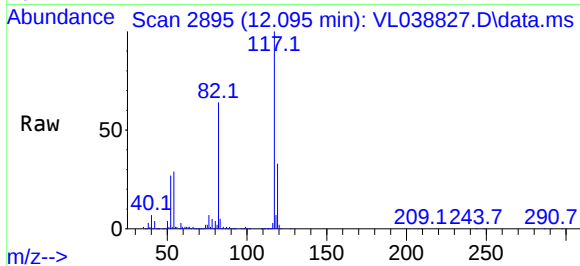
Tgt Ion: 91 Resp: 702790
Ion Ratio Lower Upper
91 100
92 60.1 49.2 73.8





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.095 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

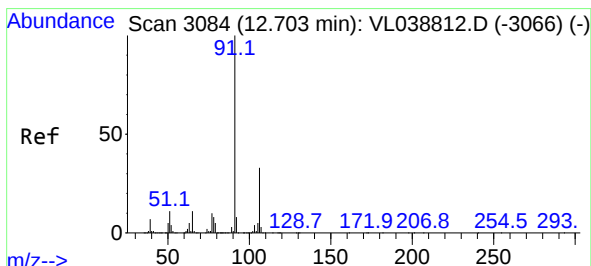
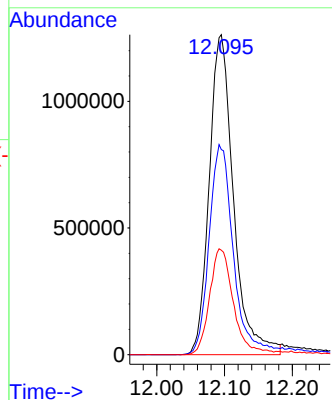
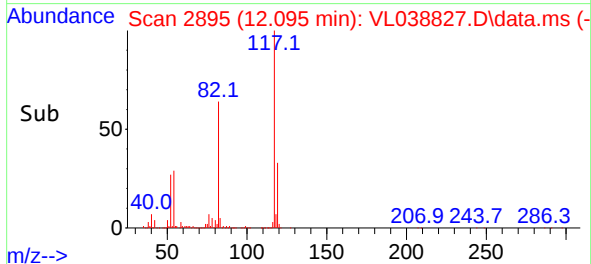
Instrument :
MSVOA_L
ClientSampleId :
IA-18DDUP



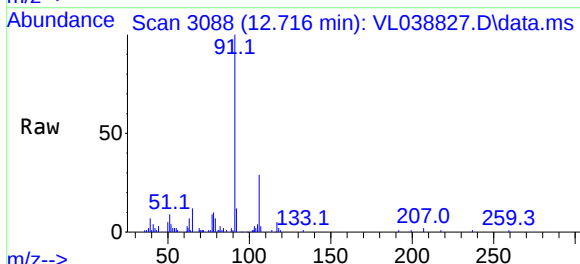
Tgt Ion: 117 Resp: 313929
Ion Ratio Lower Upper
117 100
82 68.3 53.0 79.6
119 33.9 24.9 37.3

Manual Integrations
APPROVED

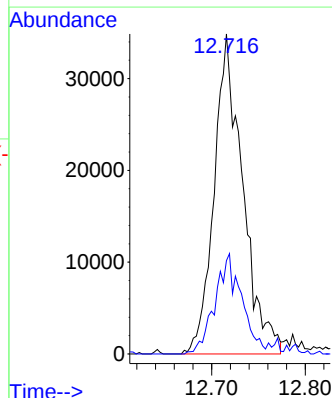
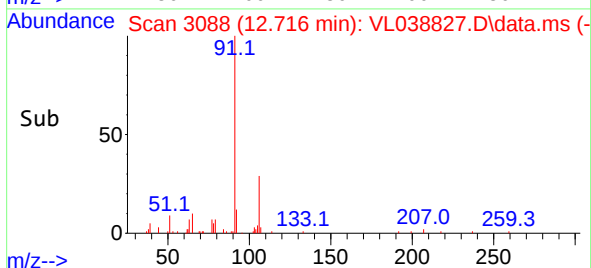
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022

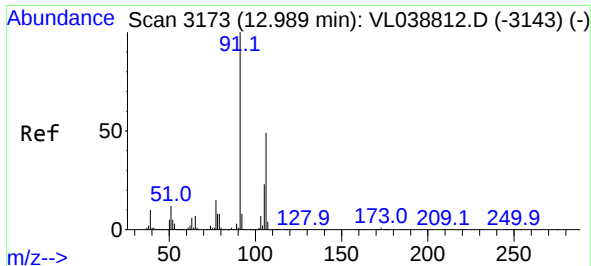


#58
Ethyl Benzene
Concen: 0.158 ppbv m
RT: 12.716 min Scan# 3088
Delta R.T. 0.013 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26



Tgt Ion: 91 Resp: 74016
Ion Ratio Lower Upper
91 100
106 29.2 26.7 40.1





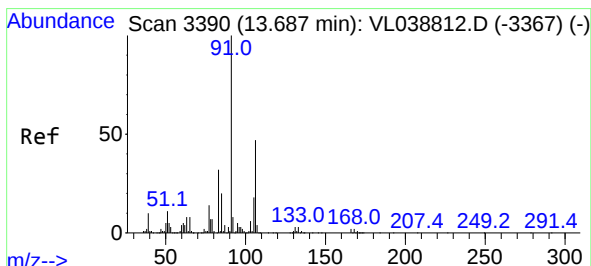
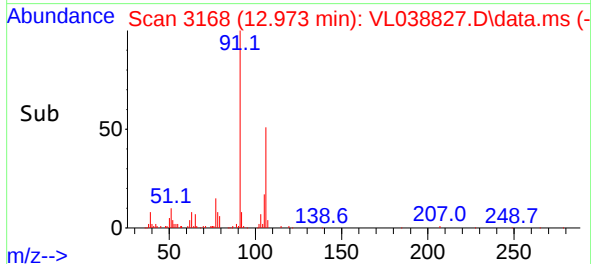
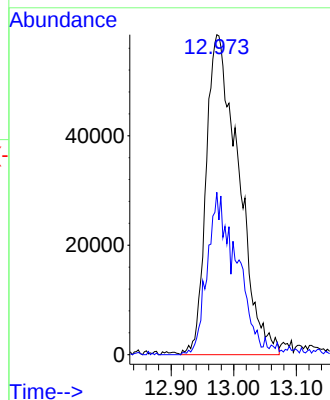
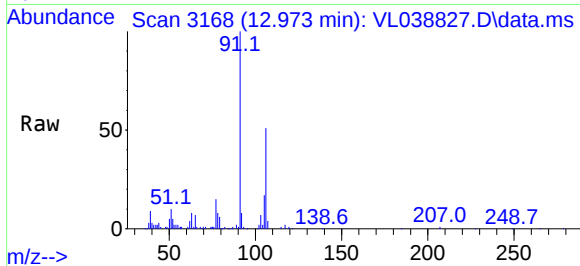
#59
m/p-Xylene
Concen: 0.530 ppbv m
RT: 12.973 min Scan# 3173
Delta R.T. -0.016 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

Instrument :
MSVOA_L
ClientSampleId :
IA-18DDUP

Tgt Ion: 91 Resp: 208884
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7

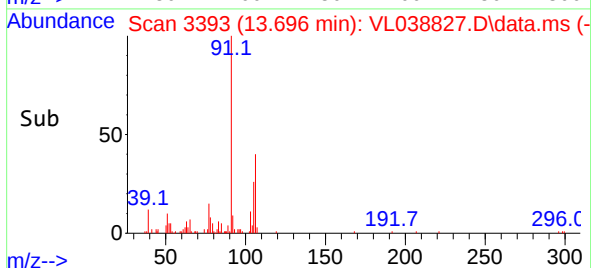
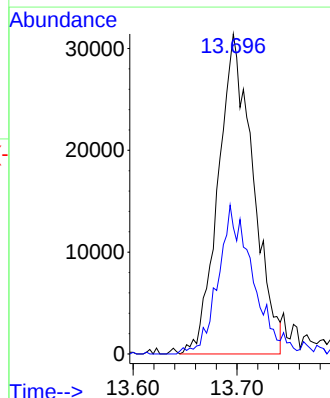
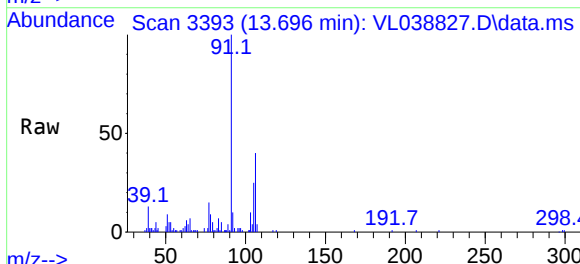
Manual Integrations
APPROVED

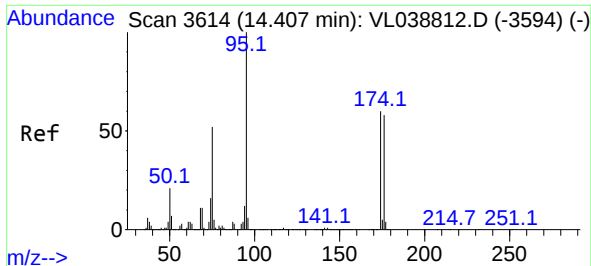
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#60
o-Xylene
Concen: 0.199 ppbv
RT: 13.696 min Scan# 3393
Delta R.T. 0.010 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

Tgt Ion: 91 Resp: 73379
Ion Ratio Lower Upper
91 100
106 47.6 23.8 71.4





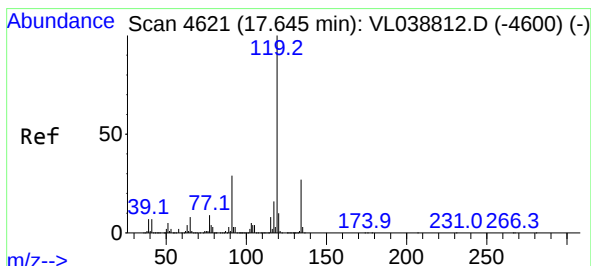
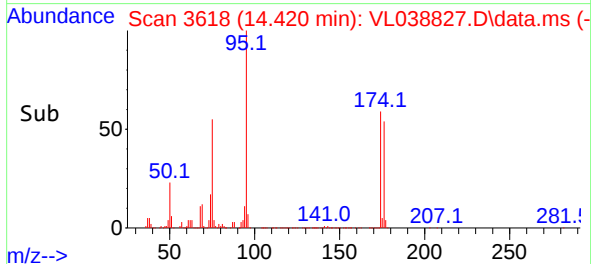
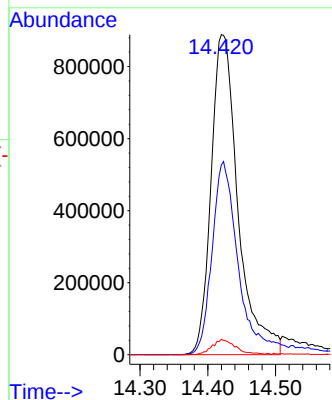
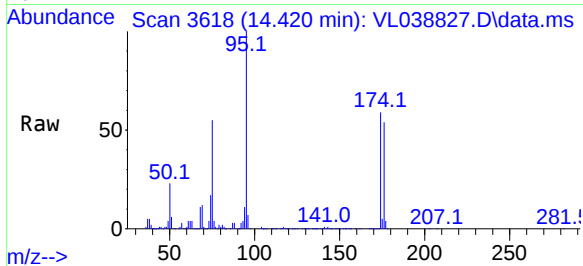
#68
1-Bromo-4-Fluorobenzene
Concen: 10.316 ppbv
RT: 14.420 min Scan# 3618
Delta R.T. 0.013 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

Instrument :
MSVOA_L
ClientSampleId :
IA-18DDUP

Tgt Ion: 95 Resp: 245660
Ion Ratio Lower Upper
95 100
174 63.0 52.0 78.0
175 4.3 4.0 6.0

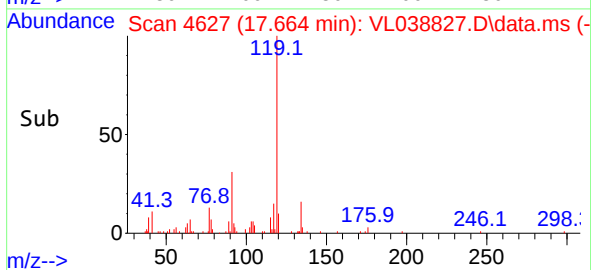
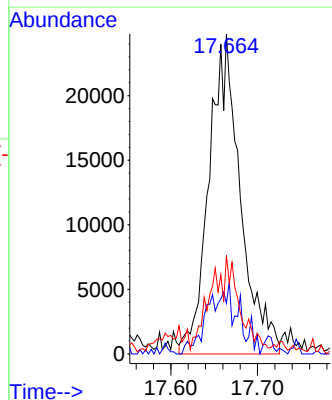
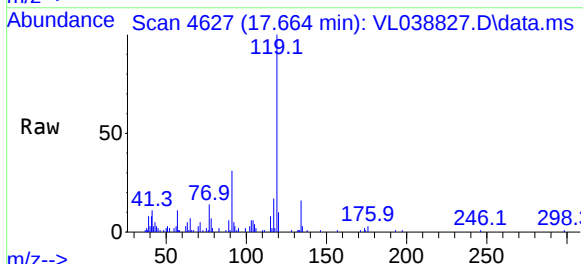
Manual Integrations
APPROVED

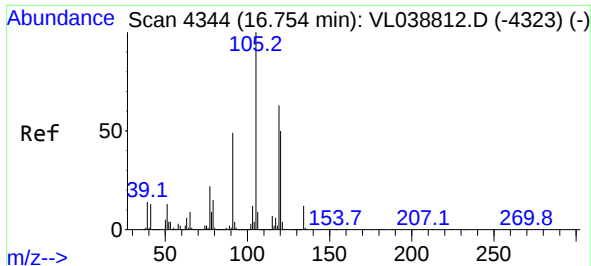
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#69
p-Isopropyltoluene
Concen: 0.110 ppbv m
RT: 17.664 min Scan# 4627
Delta R.T. 0.019 min
Lab File: VL038827.D
Acq: 6 Apr 2022 10:26

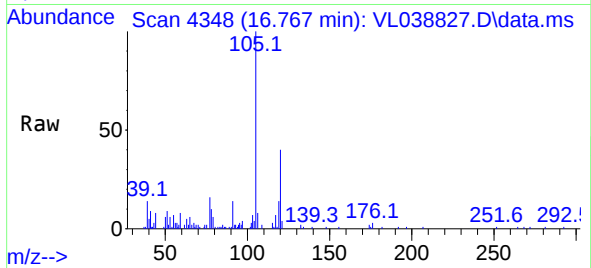
Tgt Ion:119 Resp: 62428
Ion Ratio Lower Upper
119 100
134 23.0 20.8 31.2
91 32.6 22.6 34.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.147 ppbv m
 RT: 16.767 min Scan# 41
 Delta R.T. 0.013 min
 Lab File: VL038827.D
 Acq: 6 Apr 2022 10:26

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-18DDUP



Tgt Ion:	105	Resp:	6131
Ion	Ratio	Lower	Upper
105	100		
120	40.3	39.8	59.8
91	14.1	39.4	59.0
77	16.2	17.3	25.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2022
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