

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040707.D
 Acq On : 18 Sep 2023 20:23
 Operator : SY/MD
 Sample : 04403-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 29W-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023

Quant Time: Sep 19 05:21:38 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

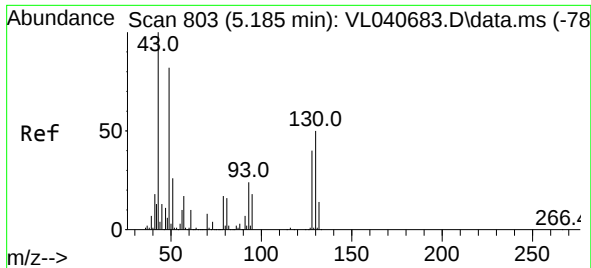
QLast Update : Tue Sep 19 05:12:43 2023

Response via : Initial Calibration

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

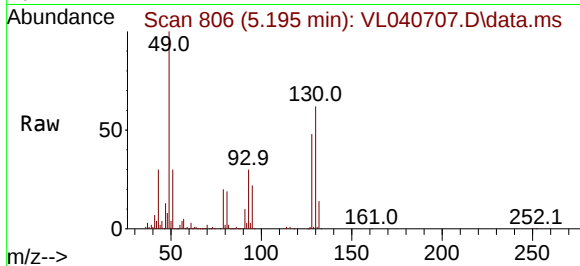
Internal Standards						
1) Bromochloromethane	5.195	49	942461	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2440519	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2217376	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1730899	10.103	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.729	85	104162	0.502	ppbv	95
3) Chlorodifluoromethane	2.674	51	362891m	2.364	ppbv	
4) Chloromethane	2.813	50	47260	0.804	ppbv	94
9) Propene	2.703	41	372300m	8.417	ppbv	
10) Heptane	7.587	43	38006m	0.381	ppbv	
11) Trichlorofluoromethane	3.568	101	53571	0.293	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.070	101	10511	0.080	ppbv	94
13) Ethanol	3.250	45	10882231	831.214	ppbv	97
15) Acetone	3.465	43	4826324	38.824	ppbv	98
17) tert-Butyl alcohol	3.899	59	66953	0.526	ppbv	98
19) Isopropyl Alcohol	3.591	45	1513550	20.206	ppbv #	98
20) Methylene Chloride	3.938	84	261326	3.906	ppbv	98
25) Ethyl Acetate	5.214	43	801129	3.996	ppbv #	95
26) Hexane	5.218	57	591602	6.240	ppbv #	65
29) Chloroform	5.282	83	87500	0.535	ppbv	99
34) 2-Butanone	4.793	43	151923	1.238	ppbv	95
35) Carbon Tetrachloride	6.501	117	12815m	0.076	ppbv	
36) Benzene	6.375	78	151002	0.836	ppbv #	92
44) 2,2,4-Trimethylpentane	7.337	57	377240	1.311	ppbv #	87
52) Tetrachloroethene	10.616	164	5806m	0.098	ppbv	
53) Toluene	9.227	91	1166970	6.116	ppbv	99
58) Ethyl Benzene	12.095	91	70833	0.280	ppbv #	84
59) m/p-Xylene	12.359	91	244464m	1.030	ppbv	
60) o-Xylene	13.069	91	94503	0.417	ppbv	98
61) Styrene	12.909	104	59467	0.627	ppbv	98
69) p-Isopropyltoluene	16.999	119	164139m	0.476	ppbv	
73) 1,3,5-Trimethylbenzene	15.362	105	24964m	0.109	ppbv	
74) 1,2,4-Trimethylbenzene	16.114	105	98355m	0.353	ppbv	
76) 1,4-Dichlorobenzene	16.481	146	91455	0.585	ppbv	96
79) Naphthalene	21.400	128	356708	2.057	ppbv	97

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

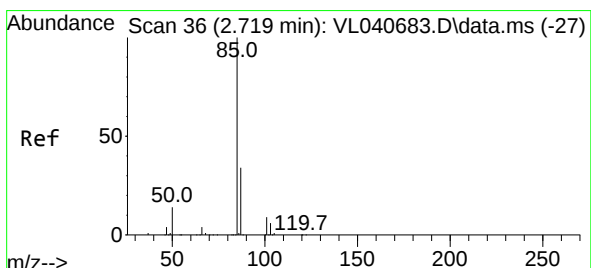
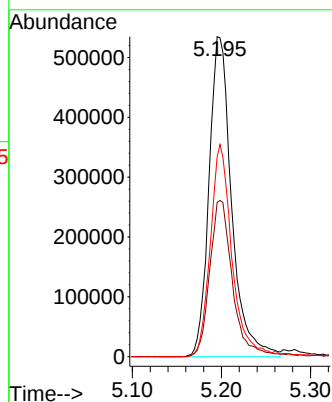
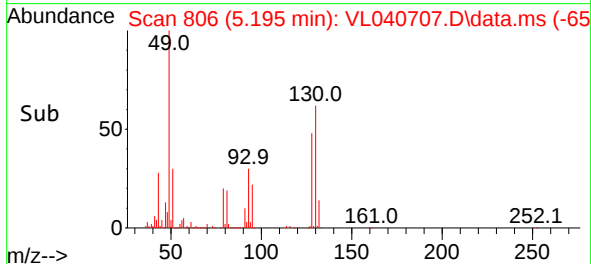
Instrument :
MSVOA_L
ClientSampleId :
29W-1



Tgt Ion: 49 Resp: 94246
Ion Ratio Lower Upper
49 100
128 50.1 25.4 76.0
130 64.7 32.3 96.8

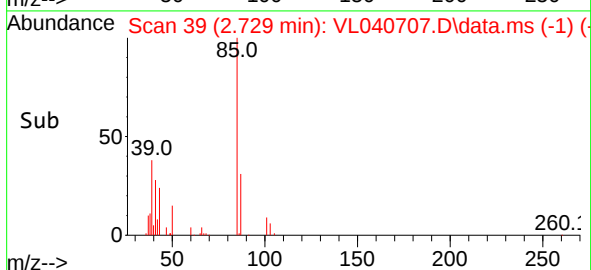
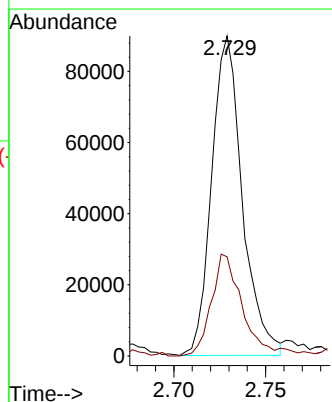
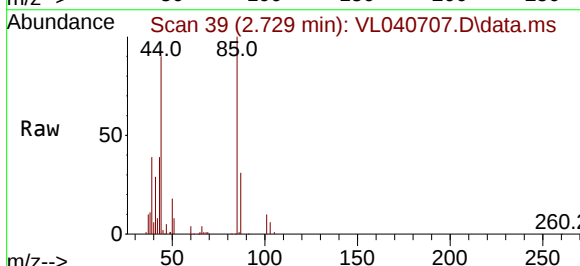
Manual Integrations
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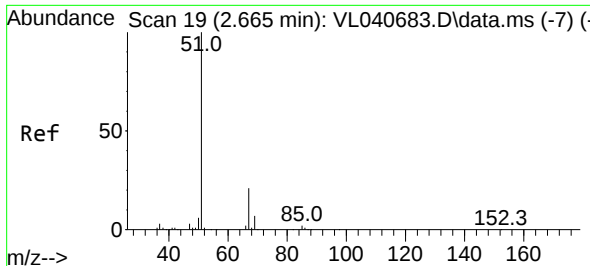
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#2
Dichlorodifluoromethane
Concen: 0.502 ppbv
RT: 2.729 min Scan# 39
Delta R.T. -0.003 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

Tgt Ion: 85 Resp: 104162
Ion Ratio Lower Upper
85 100
87 31.1 27.2 40.8





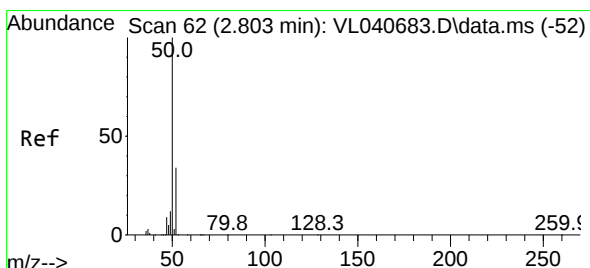
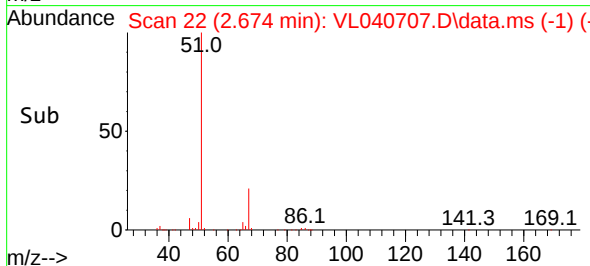
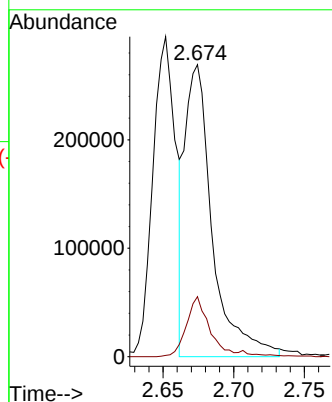
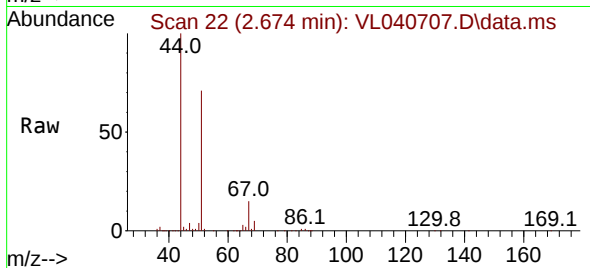
#3
Chlorodifluoromethane
Concen: 2.364 ppbv m
RT: 2.674 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

Instrument :
MSVOA_L
ClientSampleId :
29W-1

Tgt Ion: 51 Resp: 36289
Ion Ratio Lower Upper
51 100
67 18.7 16.7 25.1

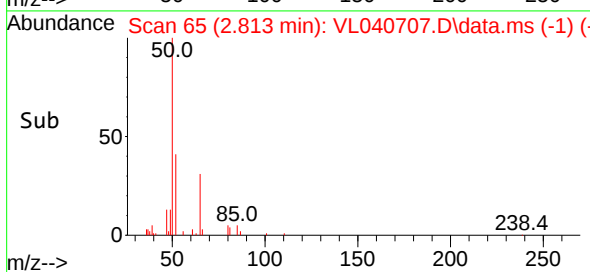
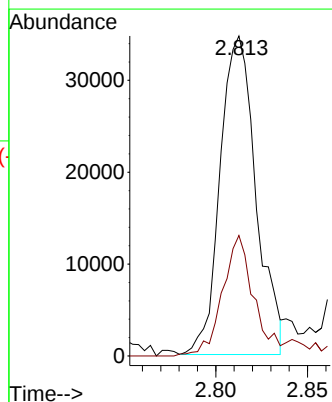
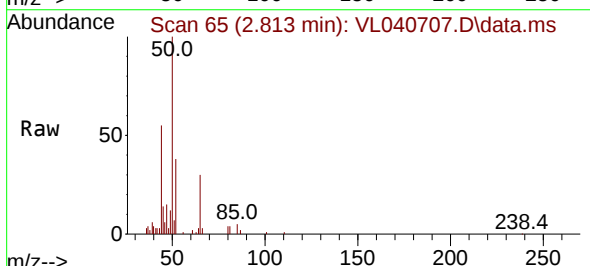
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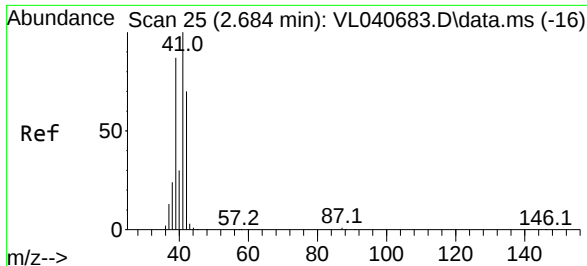
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#4
Chloromethane
Concen: 0.804 ppbv
RT: 2.813 min Scan# 65
Delta R.T. -0.003 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

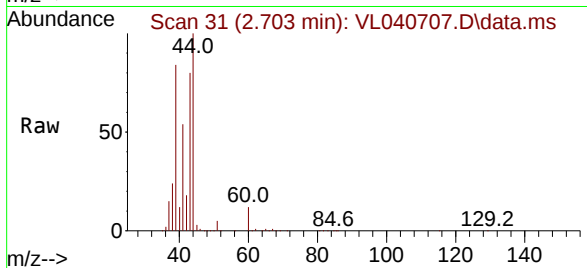
Tgt Ion: 50 Resp: 47260
Ion Ratio Lower Upper
50 100
52 37.2 27.1 40.7





#9
 Propene
 Concen: 8.417 ppbv m
 RT: 2.703 min Scan# 31
 Delta R.T. 0.007 min
 Lab File: VL040707.D
 Acq: 18 Sep 2023 20:23

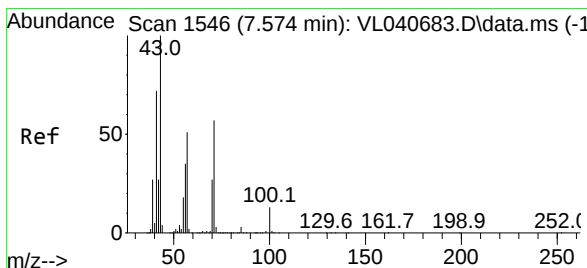
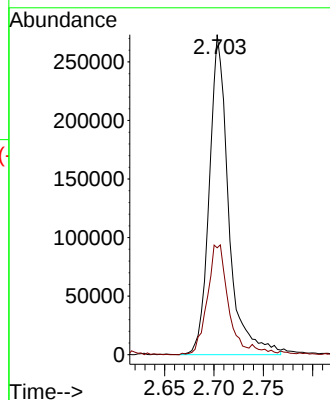
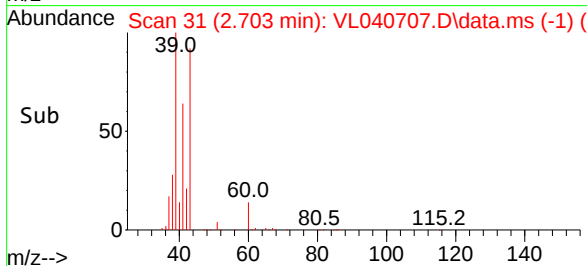
Instrument :
 MSVOA_L
 ClientSampleId :
 29W-1



Tgt Ion: 41 Resp: 372300
 Ion Ratio Lower Upper
 41 100
 42 126.1 56.7 85.1

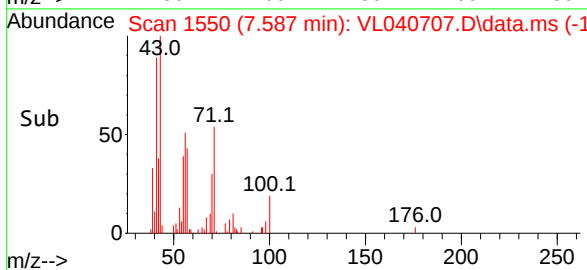
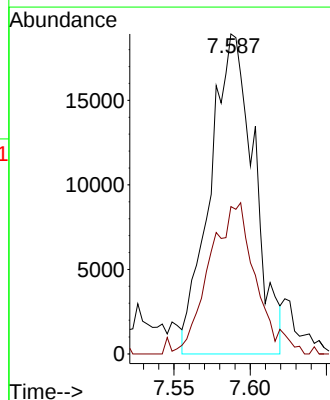
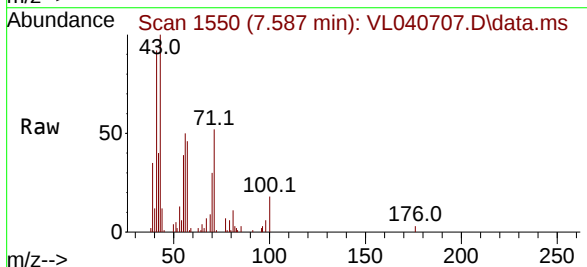
Manual Integrations
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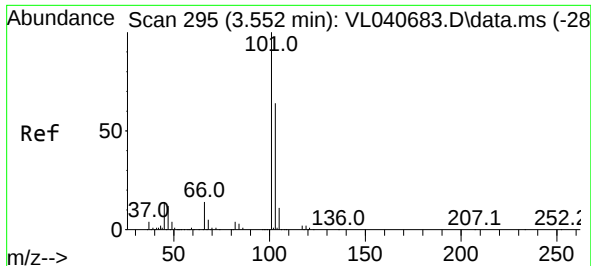
Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023



#10
 Heptane
 Concen: 0.381 ppbv m
 RT: 7.587 min Scan# 1550
 Delta R.T. 0.000 min
 Lab File: VL040707.D
 Acq: 18 Sep 2023 20:23

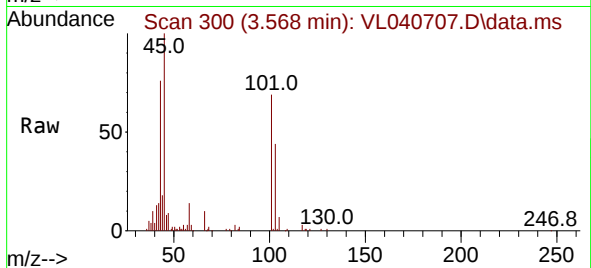
Tgt Ion: 43 Resp: 38006
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.8 62.6





#11
 Trichlorofluoromethane
 Concen: 0.293 ppbv
 RT: 3.568 min Scan# 300
 Delta R.T. 0.000 min
 Lab File: VL040707.D
 Acq: 18 Sep 2023 20:23

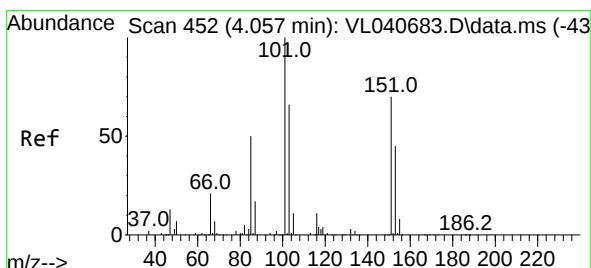
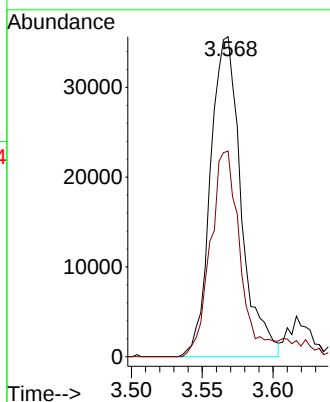
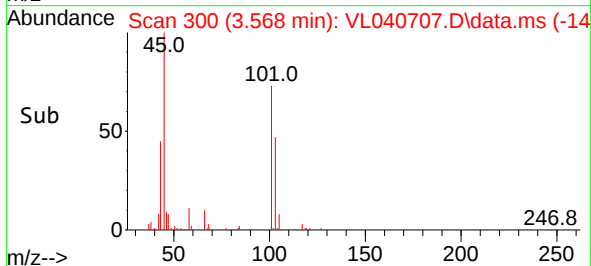
Instrument :
 MSVOA_L
 ClientSampleId :
 29W-1



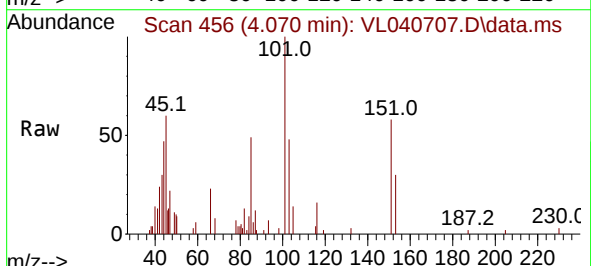
Tgt Ion:101 Resp: 5357
 Ion Ratio Lower Upper
 101 100
 103 64.2 51.3 76.9

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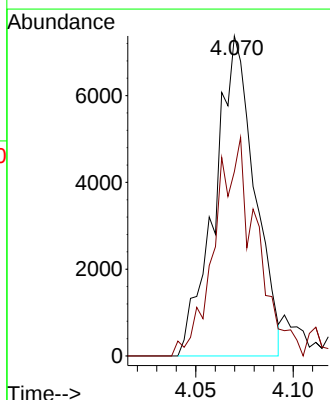
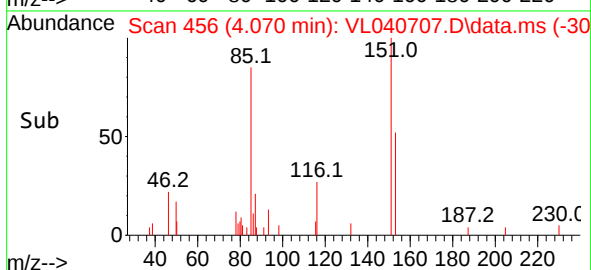
Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023

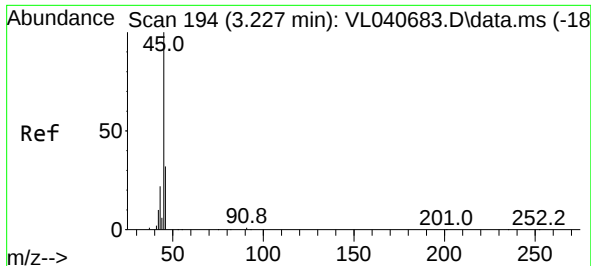


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.080 ppbv
 RT: 4.070 min Scan# 456
 Delta R.T. -0.003 min
 Lab File: VL040707.D
 Acq: 18 Sep 2023 20:23



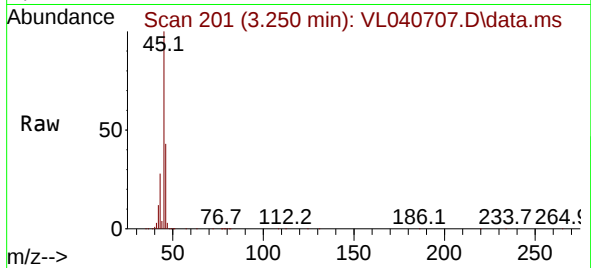
Tgt Ion:101 Resp: 10511
 Ion Ratio Lower Upper
 101 100
 151 75.7 56.8 85.2





#13
Ethanol
Concen: 831.214 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.007 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

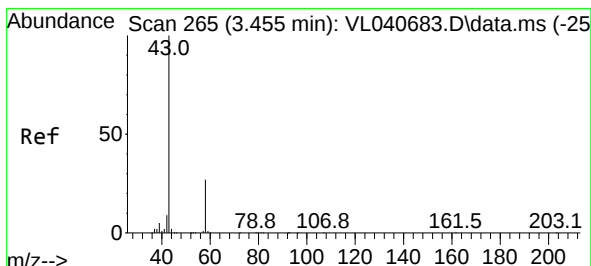
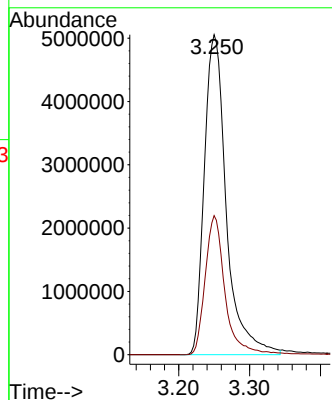
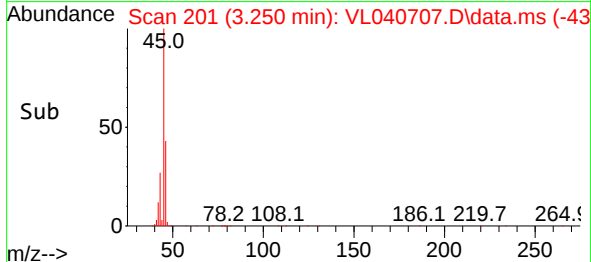
Instrument :
MSVOA_L
ClientSampleId :
29W-1



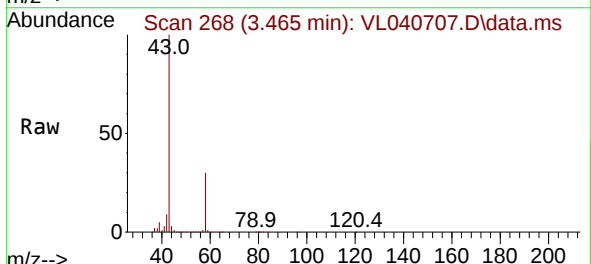
Tgt Ion: 45 Resp: 1088223
Ion Ratio Lower Upper
45 100
46 39.7 15.2 61.0

Manual Integrations
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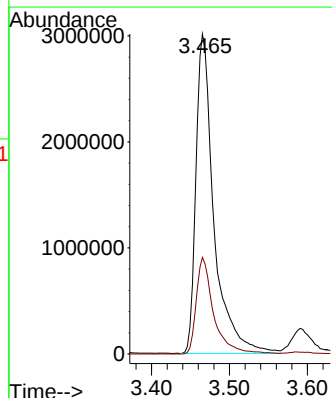
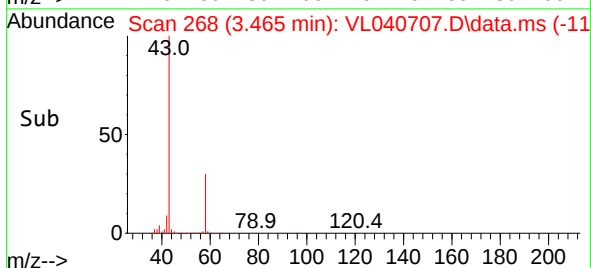
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

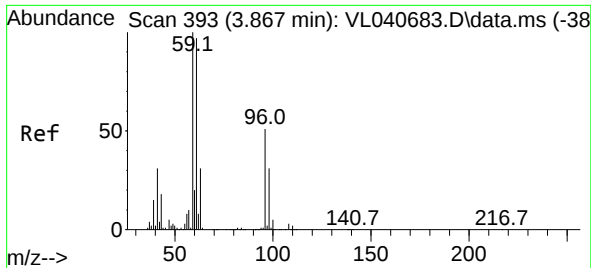


#15
Acetone
Concen: 38.824 ppbv
RT: 3.465 min Scan# 268
Delta R.T. -0.006 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23



Tgt Ion: 43 Resp: 4826324
Ion Ratio Lower Upper
43 100
58 29.3 22.6 34.0





#17

tert-Butyl alcohol

Concen: 0.526 ppbv

RT: 3.899 min Scan# 403

Delta R.T. 0.016 min

Lab File: VL040707.D

Acq: 18 Sep 2023 20:23

Instrument :

MSVOA_L

ClientSampleId :

29W-1

Tgt Ion: 59 Resp: 6695

Ion Ratio Lower Upper

59 100

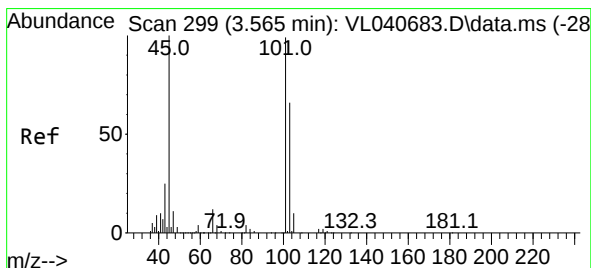
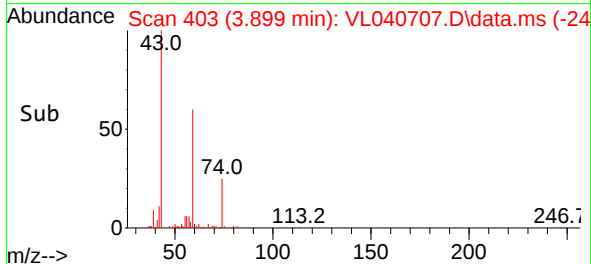
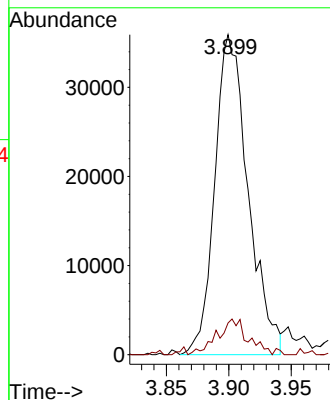
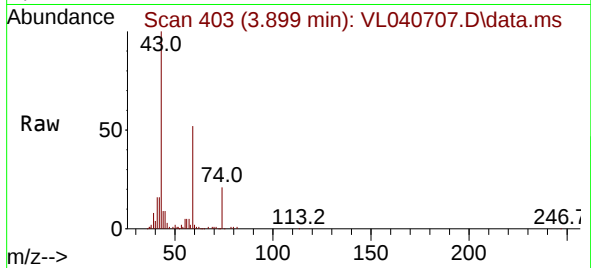
57 11.7 8.7 13.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023



#19

Isopropyl Alcohol

Concen: 20.206 ppbv

RT: 3.591 min Scan# 307

Delta R.T. 0.013 min

Lab File: VL040707.D

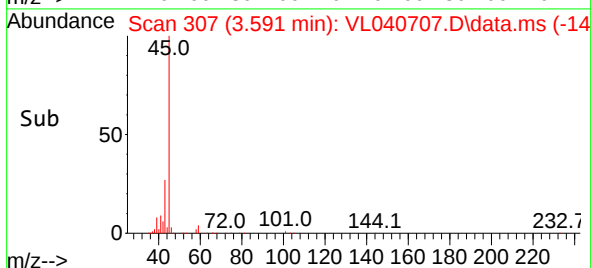
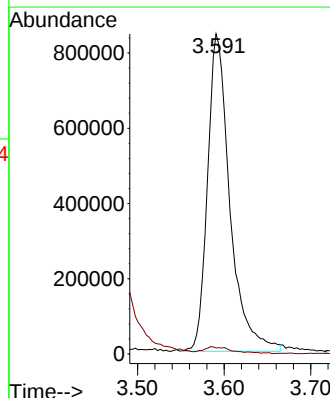
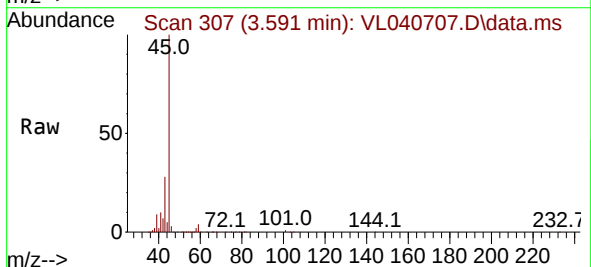
Acq: 18 Sep 2023 20:23

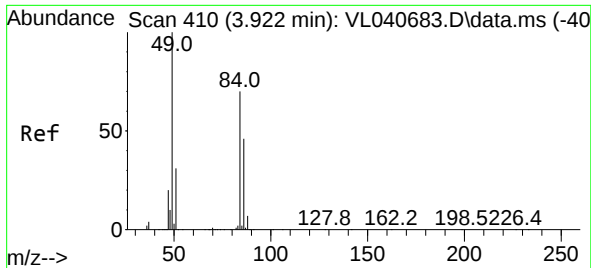
Tgt Ion: 45 Resp: 1513550

Ion Ratio Lower Upper

45 100

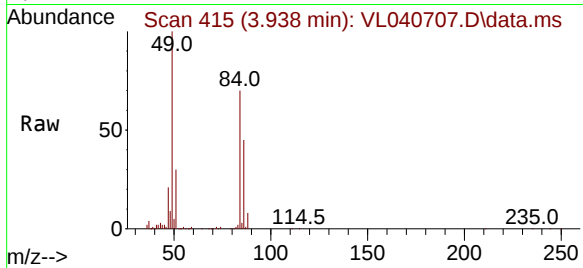
58 3.0 1.9 2.9#





#20
Methylene Chloride
Concen: 3.906 ppbv
RT: 3.938 min Scan# 410
Delta R.T. 0.000 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

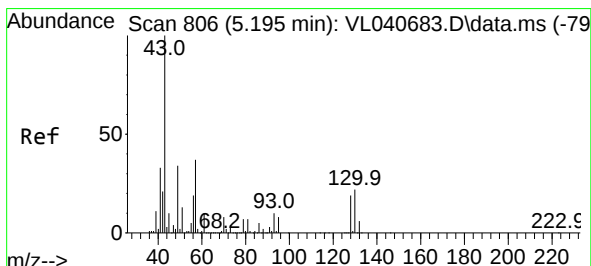
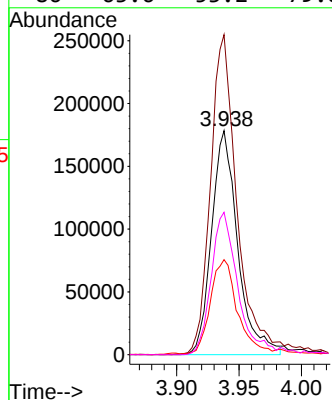
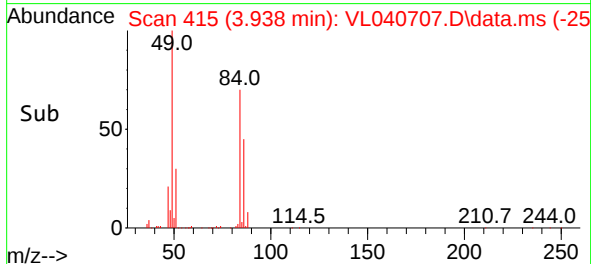
Instrument :
MSVOA_L
ClientSampleId :
29W-1



Tgt Ion: 84 Resp: 261320
Ion Ratio Lower Upper
84 100
49 142.1 114.4 171.6
51 42.0 35.5 53.3
86 63.6 53.2 79.8

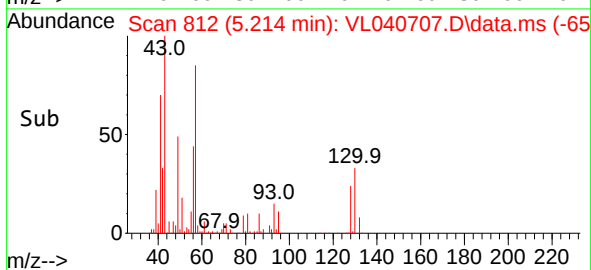
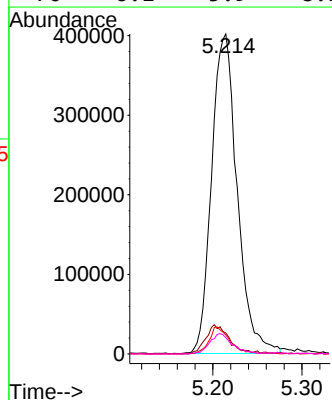
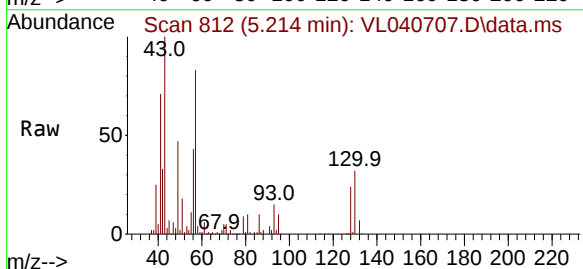
Manual Integrations
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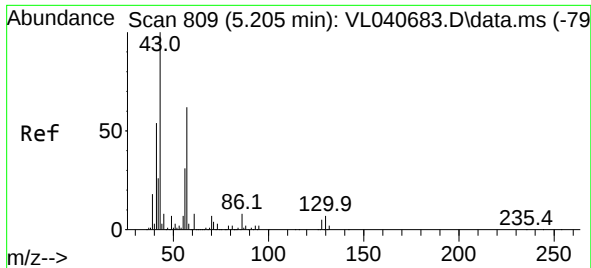
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#25
Ethyl Acetate
Concen: 3.996 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

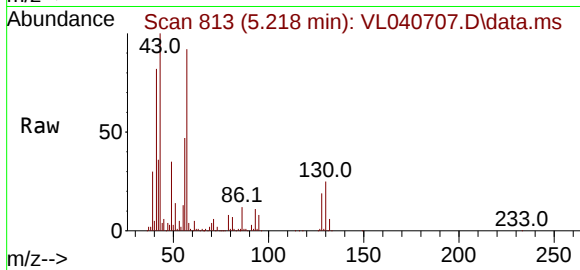
Tgt Ion: 43 Resp: 801129
Ion Ratio Lower Upper
43 100
45 9.0 8.2 12.4
61 7.0 8.2 12.4#
70 6.1 5.9 8.9





#26
Hexane
Concen: 6.240 ppbv
RT: 5.218 min Scan# 813
Delta R.T. -0.003 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

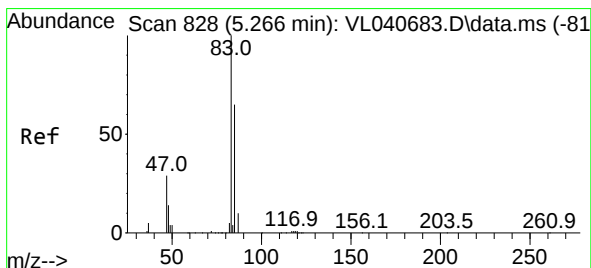
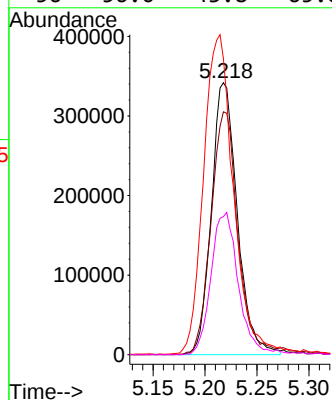
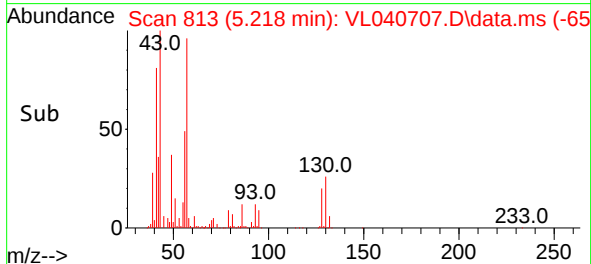
Instrument : MSVOA_L
ClientSampleId : 29W-1



Tgt Ion: 57 Resp: 591602
Ion Ratio Lower Upper
57 100
41 94.8 75.2 112.8
43 137.6 185.6 278.4
56 56.0 43.8 65.8

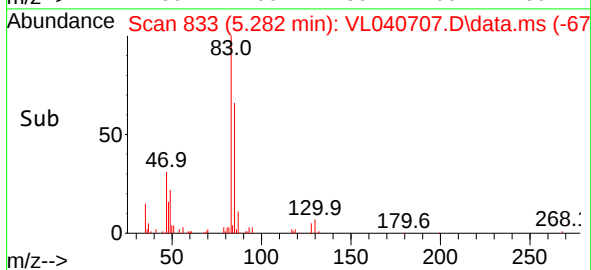
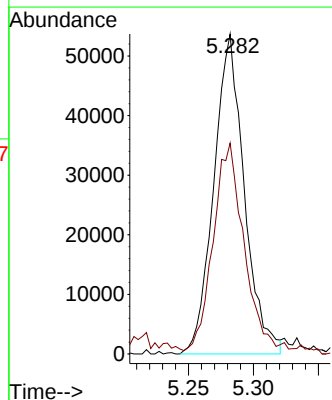
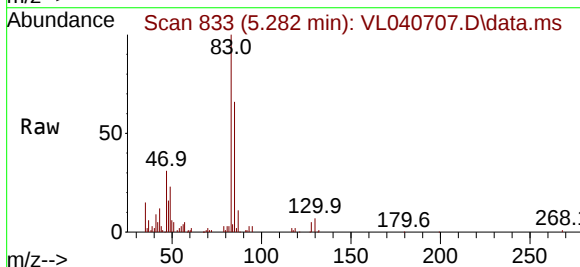
Manual Integrations
APPROVED

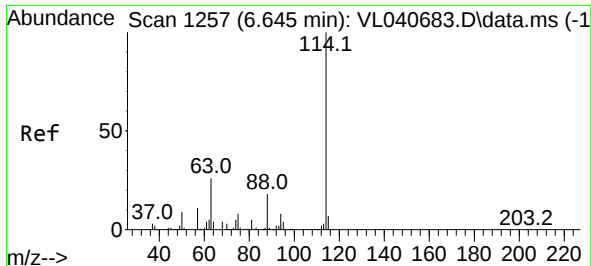
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#29
Chloroform
Concen: 0.535 ppbv
RT: 5.282 min Scan# 833
Delta R.T. 0.000 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

Tgt Ion: 83 Resp: 87500
Ion Ratio Lower Upper
83 100
85 64.4 51.8 77.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 114

Delta R.T. 0.000 min

Lab File: VL040707.D

Acq: 18 Sep 2023 20:23

Instrument :

MSVOA_L

ClientSampleId :

29W-1

Tgt Ion:114 Resp: 2440519

Ion Ratio Lower Upper

114 100

63 26.4 21.1 31.7

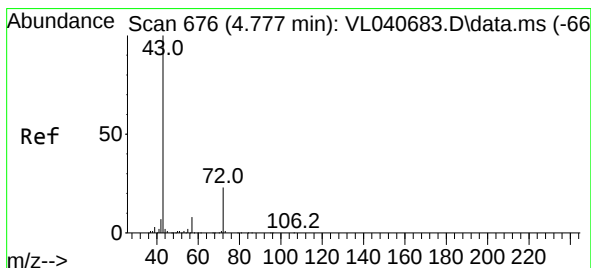
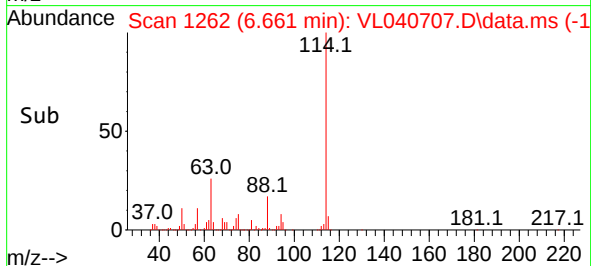
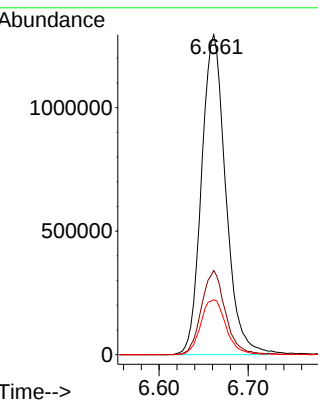
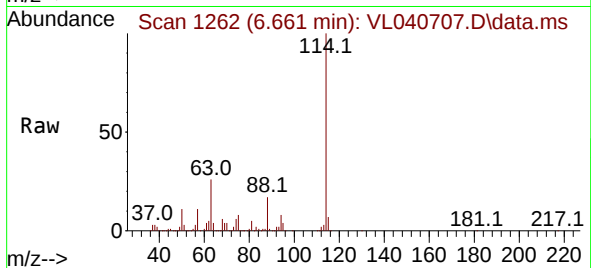
88 18.1 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023



#34

2-Butanone

Concen: 1.238 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.003 min

Lab File: VL040707.D

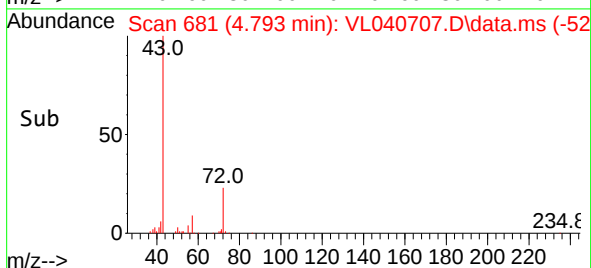
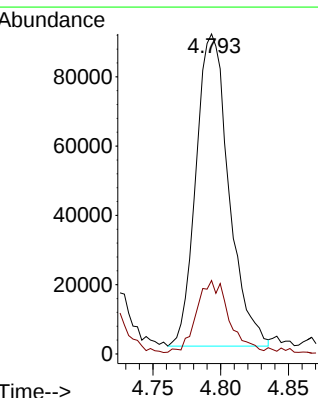
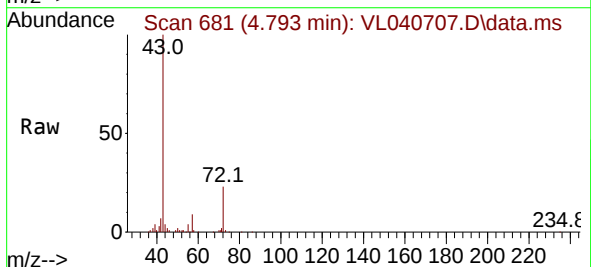
Acq: 18 Sep 2023 20:23

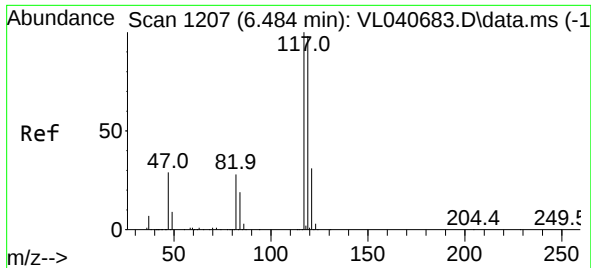
Tgt Ion: 43 Resp: 151923

Ion Ratio Lower Upper

43 100

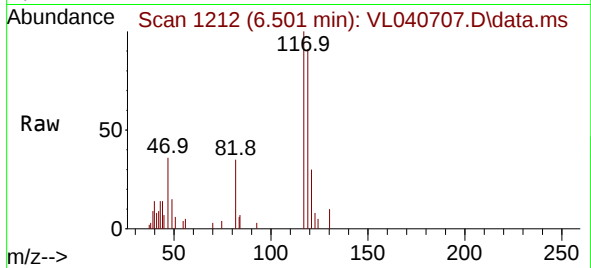
72 25.5 18.6 27.8





#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 6.501 min Scan# 1173
Delta R.T. -0.003 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

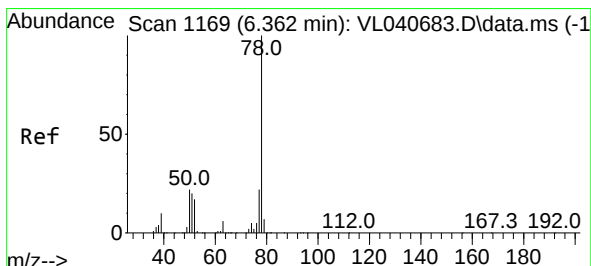
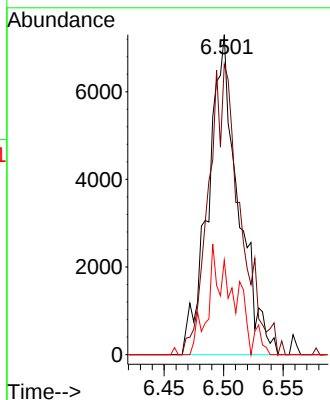
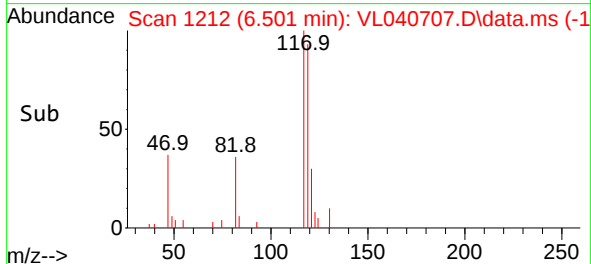
Instrument :
MSVOA_L
ClientSampleId :
29W-1



Tgt Ion: 117 Resp: 1281
Ion Ratio Lower Upper
117 100
119 90.8 78.6 117.8
121 29.5 24.7 37.1

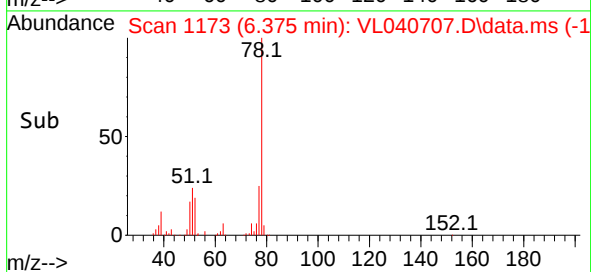
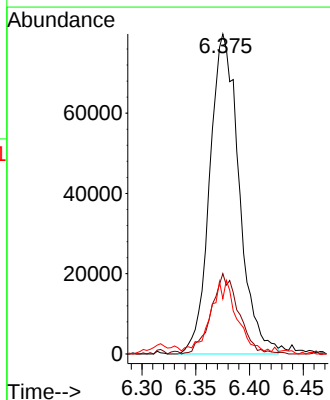
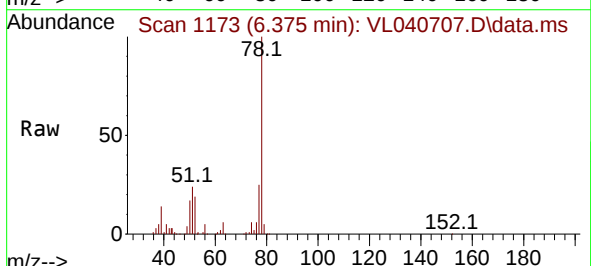
Manual Integrations
APPROVED

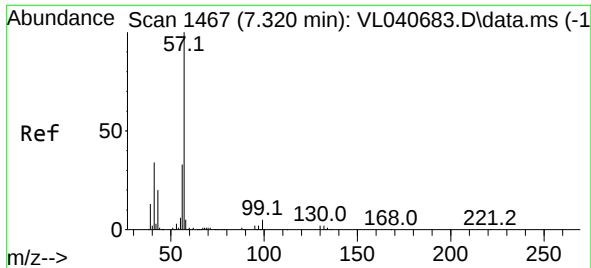
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#36
Benzene
Concen: 0.836 ppbv
RT: 6.375 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

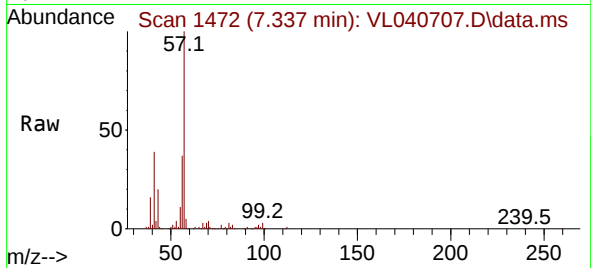
Tgt Ion: 78 Resp: 151002
Ion Ratio Lower Upper
78 100
77 24.6 17.9 26.9
50 16.5 17.3 25.9#





#44
2,2,4-Trimethylpentane
Concen: 1.311 ppbv
RT: 7.337 min Scan# 1467
Delta R.T. 0.000 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

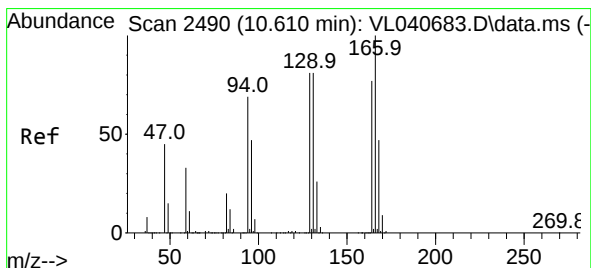
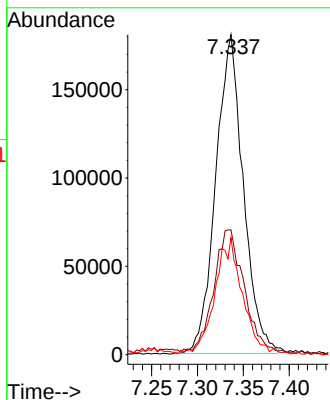
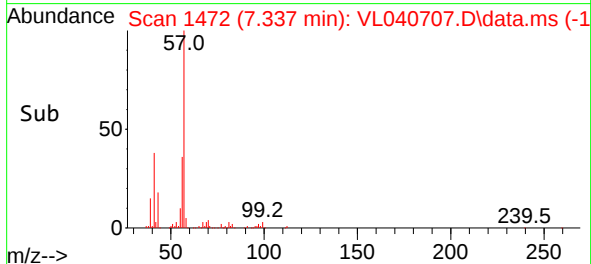
Instrument :
MSVOA_L
ClientSampleId :
29W-1



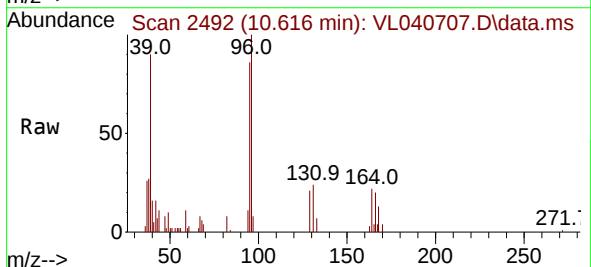
Tgt Ion: 57 Resp: 377240
Ion Ratio Lower Upper
57 100
41 44.6 28.5 42.7
56 37.0 25.4 38.2

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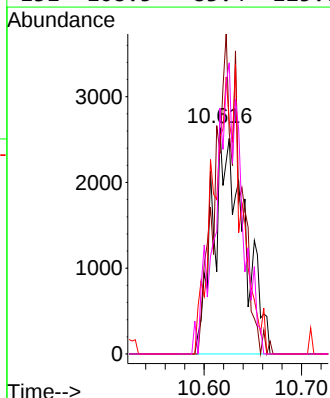
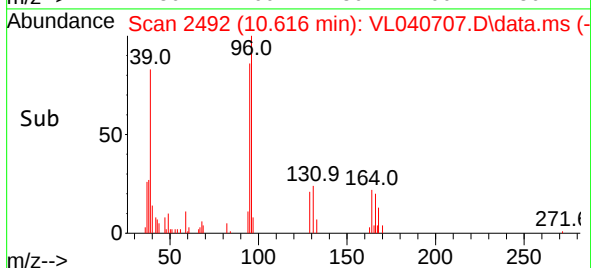
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

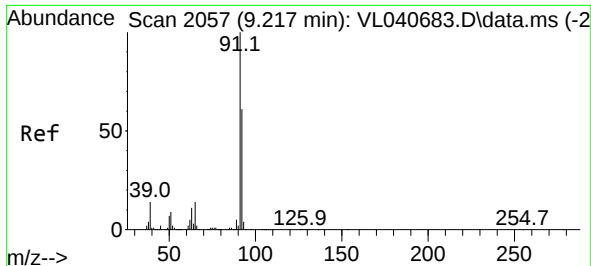


#52
Tetrachloroethene
Concen: 0.098 ppbv m
RT: 10.616 min Scan# 2492
Delta R.T. -0.009 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23



Tgt Ion:164 Resp: 5806
Ion Ratio Lower Upper
164 100
166 88.5 103.4 155.2
129 96.1 83.5 125.3
131 108.5 83.4 125.0





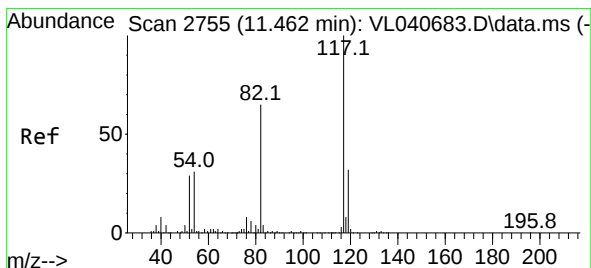
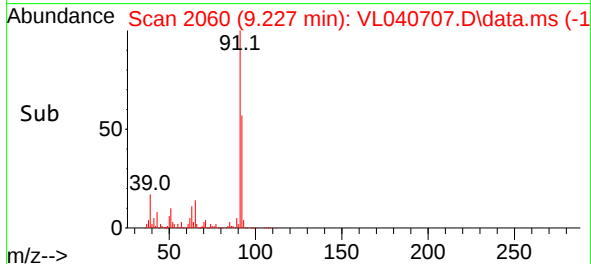
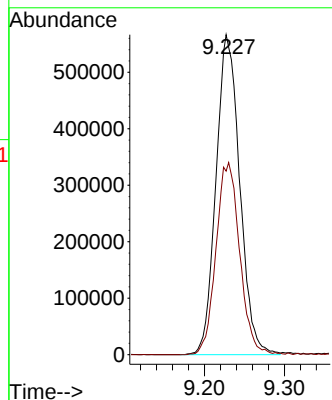
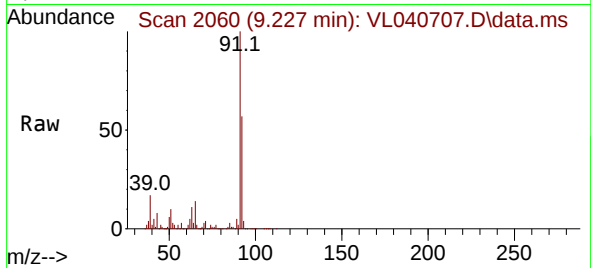
#53
Toluene
Concen: 6.116 ppbv
RT: 9.227 min Scan# 2057
Delta R.T. -0.003 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

Instrument :
MSVOA_L
ClientSampleId :
29W-1

Tgt Ion: 91 Resp: 1166970
Ion Ratio Lower Upper
91 100
92 60.0 48.5 72.7

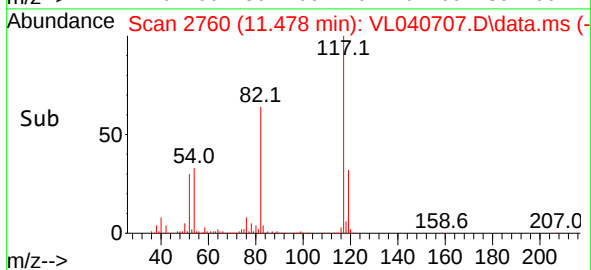
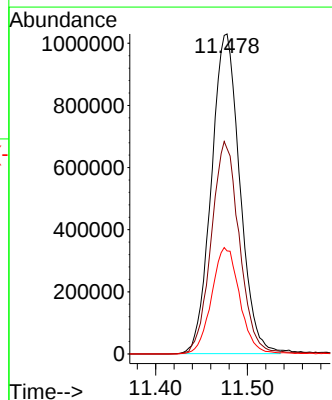
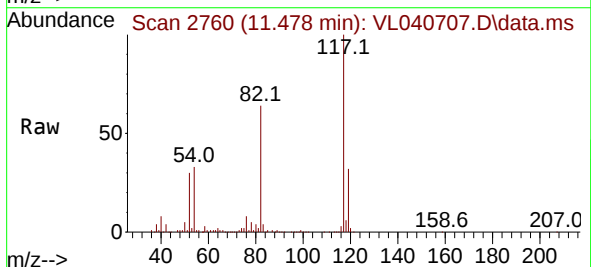
Manual Integrations
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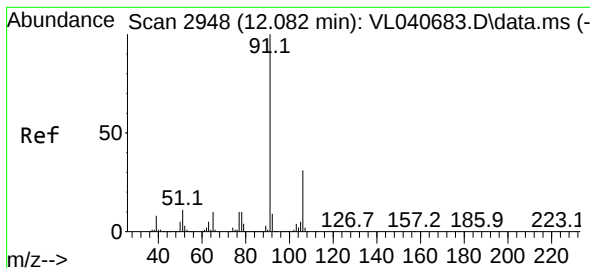
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 2760
Delta R.T. 0.000 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

Tgt Ion:117 Resp: 2217376
Ion Ratio Lower Upper
117 100
82 66.6 51.4 77.0
119 33.2 24.7 37.1





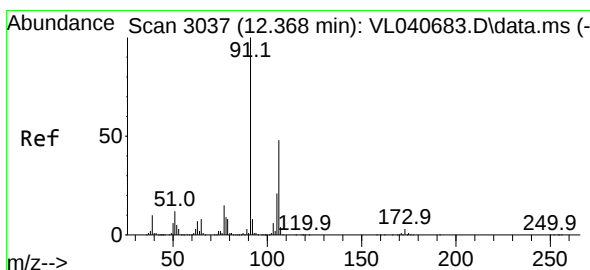
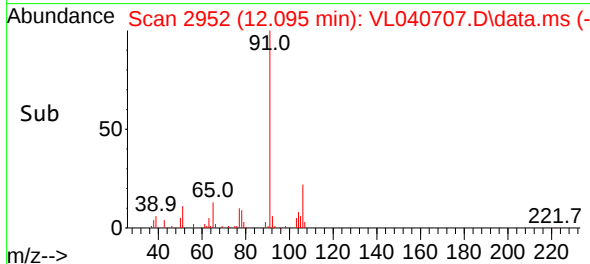
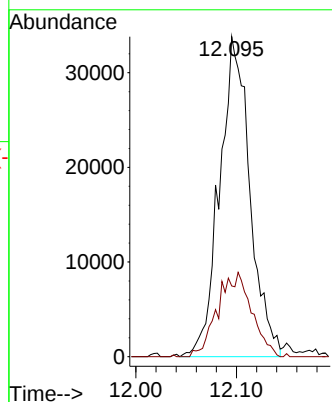
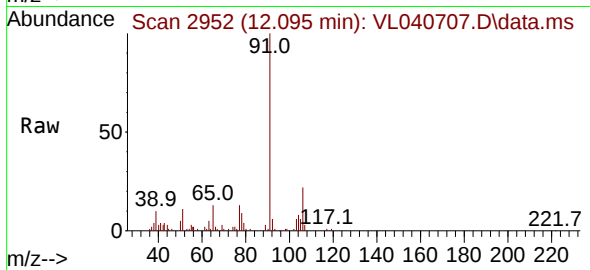
#58
Ethyl Benzene
Concen: 0.280 ppbv
RT: 12.095 min Scan# 2948
Delta R.T. -0.006 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

Instrument : MSVOA_L
ClientSampleId : 29W-1

Tgt Ion: 91 Resp: 7083
Ion Ratio Lower Upper
91 100
106 22.1 24.7 37.1

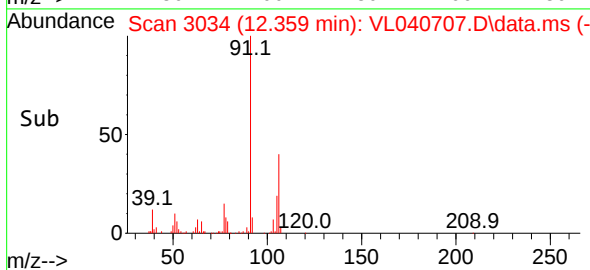
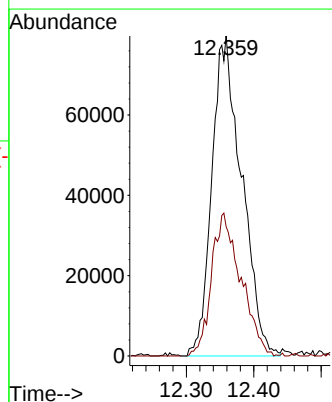
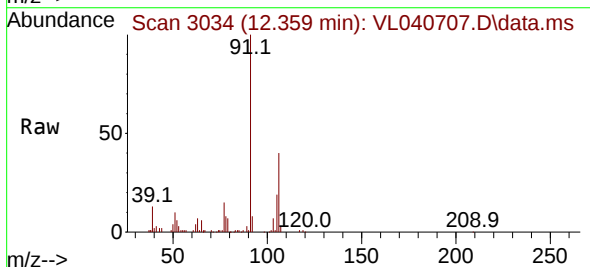
Manual Integrations
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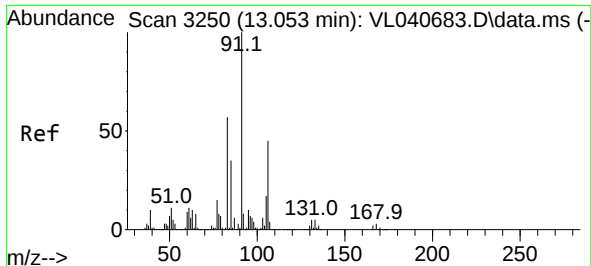
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#59
m/p-Xylene
Concen: 1.030 ppbv m
RT: 12.359 min Scan# 3034
Delta R.T. -0.022 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

Tgt Ion: 91 Resp: 244464
Ion Ratio Lower Upper
91 100
106 44.0 34.8 52.2





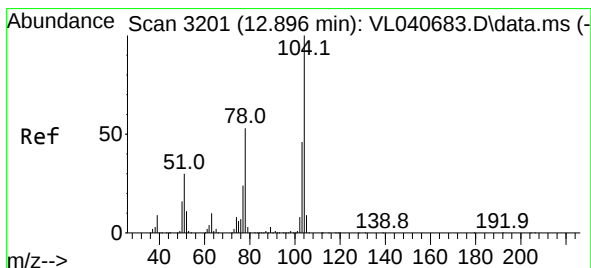
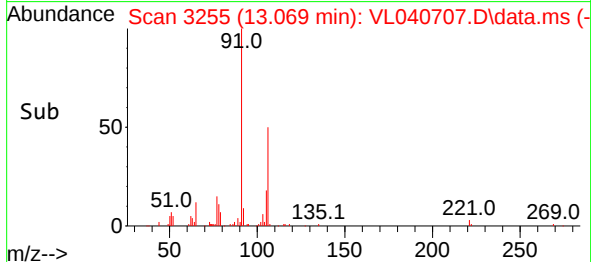
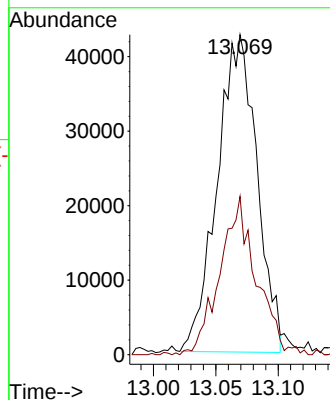
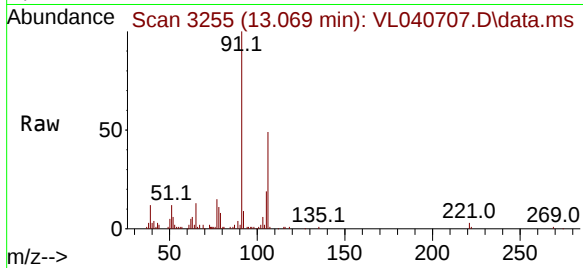
#60
o-Xylene
Concen: 0.417 ppbv
RT: 13.069 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

Instrument :
MSVOA_L
ClientSampleId :
29W-1

Tgt Ion: 91 Resp: 9450
Ion Ratio Lower Upper
91 100
106 45.8 22.3 66.9

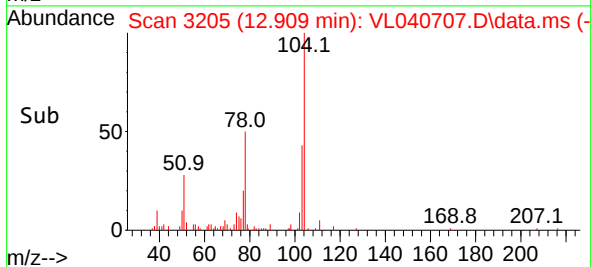
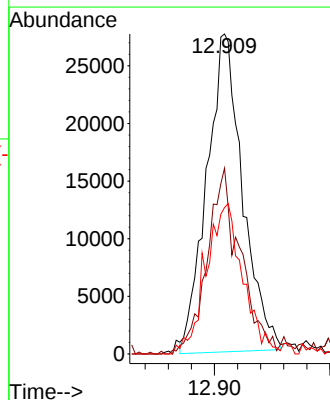
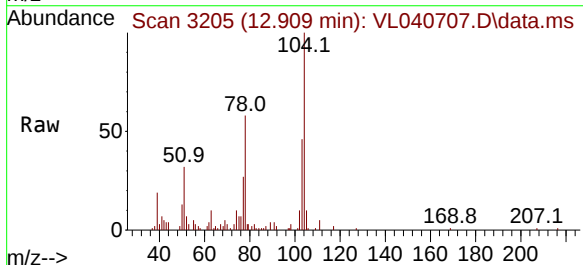
Manual Integrations
APPROVED

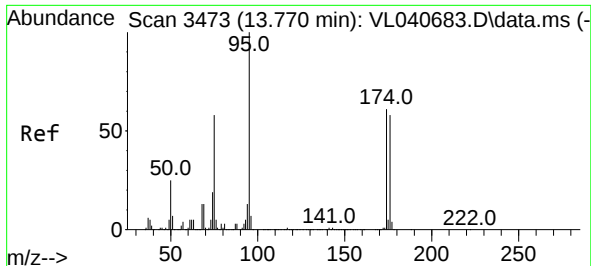
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#61
Styrene
Concen: 0.627 ppbv
RT: 12.909 min Scan# 3205
Delta R.T. 0.003 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

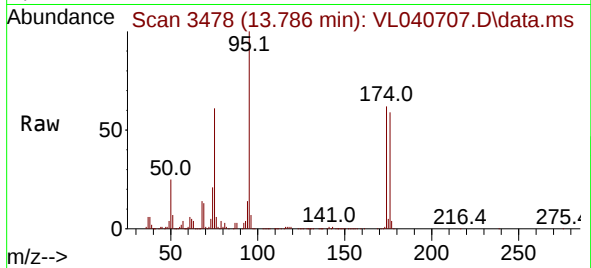
Tgt Ion:104 Resp: 59467
Ion Ratio Lower Upper
104 100
78 54.9 43.4 65.0
103 49.3 37.2 55.8





#68
1-Bromo-4-Fluorobenzene
Concen: 10.103 ppbv
RT: 13.786 min Scan# 3473
Delta R.T. 0.000 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

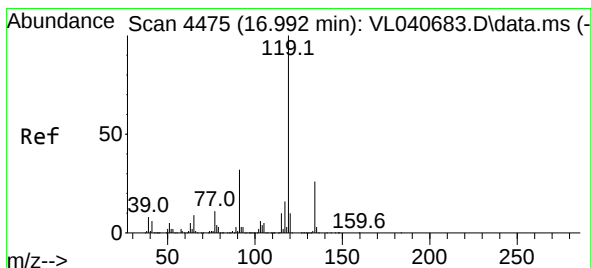
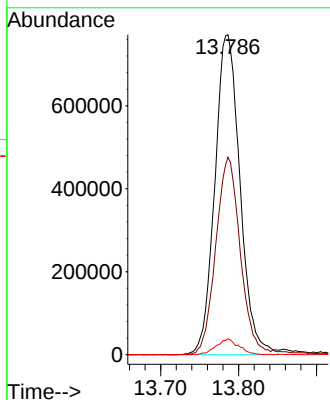
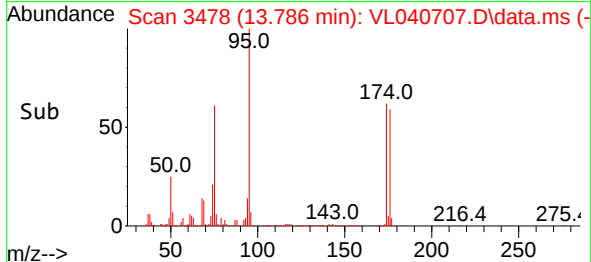
Instrument :
MSVOA_L
ClientSampleId :
29W-1



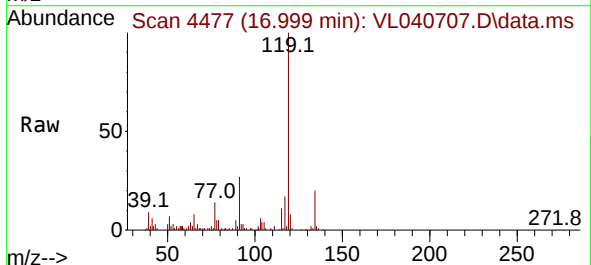
Tgt Ion: 95 Resp: 173089
Ion Ratio Lower Upper
95 100
174 61.4 48.9 73.3
175 4.5 3.5 5.3

Manual Integrations
APPROVED

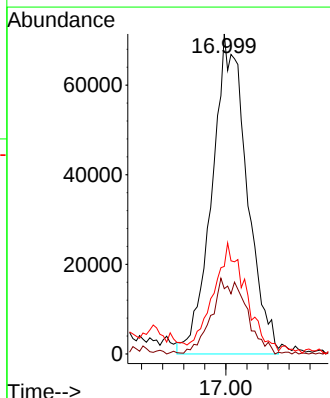
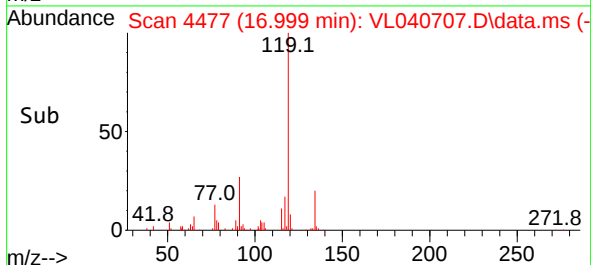
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

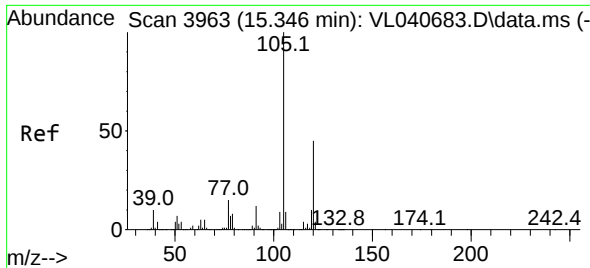


#69
p-Isopropyltoluene
Concen: 0.476 ppbv m
RT: 16.999 min Scan# 4477
Delta R.T. -0.003 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23



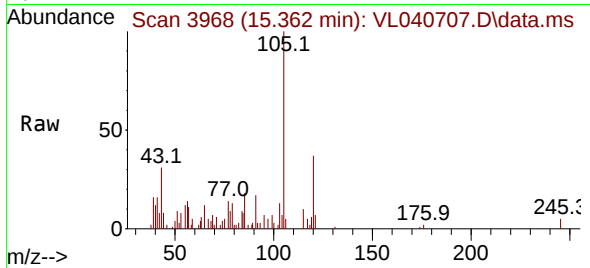
Tgt Ion:119 Resp: 164139
Ion Ratio Lower Upper
119 100
134 0.0 20.2 30.2#
91 34.1 25.0 37.6





#73
1,3,5-Trimethylbenzene
Concen: 0.109 ppbv m
RT: 15.362 min Scan# 3963
Delta R.T. 0.000 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

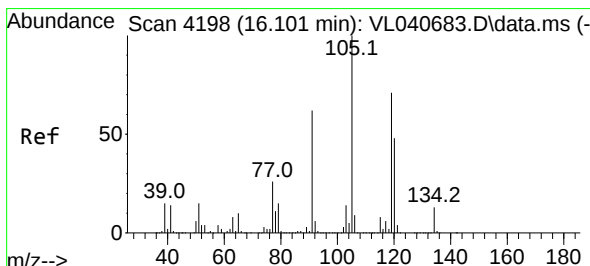
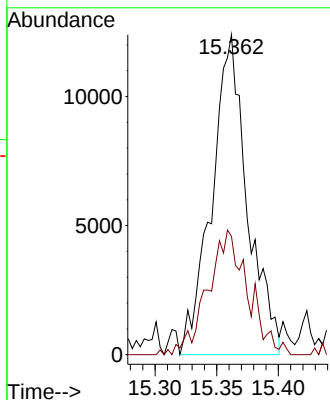
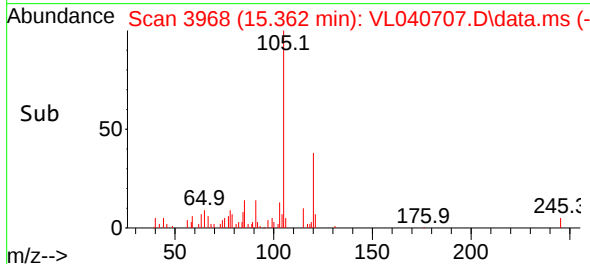
Instrument :
MSVOA_L
ClientSampleId :
29W-1



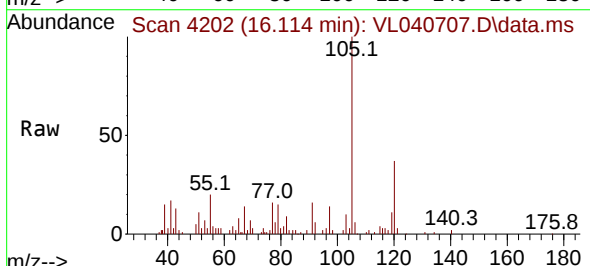
Tgt Ion:105 Resp: 24964
Ion Ratio Lower Upper
105 100
120 36.9 36.1 54.1

Manual Integrations
APPROVED

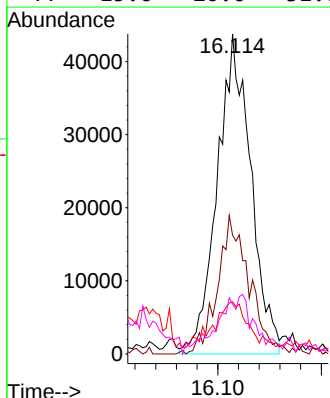
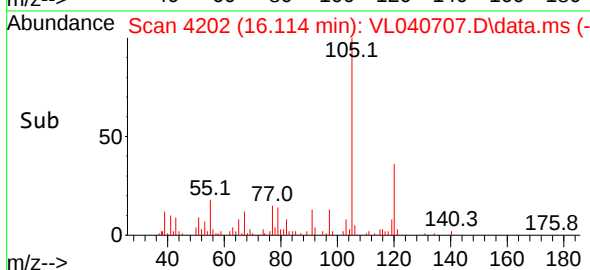
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

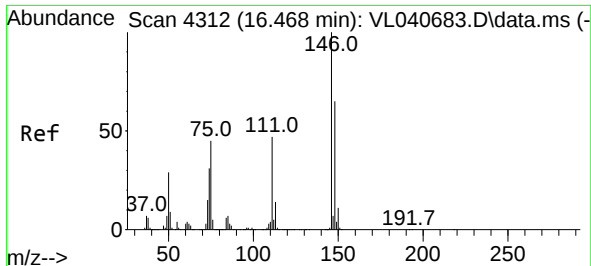


#74
1,2,4-Trimethylbenzene
Concen: 0.353 ppbv m
RT: 16.114 min Scan# 4202
Delta R.T. -0.003 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23



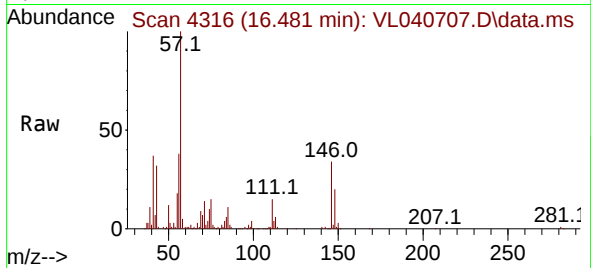
Tgt Ion:105 Resp: 98355
Ion Ratio Lower Upper
105 100
120 37.1 38.6 57.8#
91 16.3 50.0 75.0#
77 15.6 20.6 31.0#





#76
1,4-Dichlorobenzene
Concen: 0.585 ppbv
RT: 16.481 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

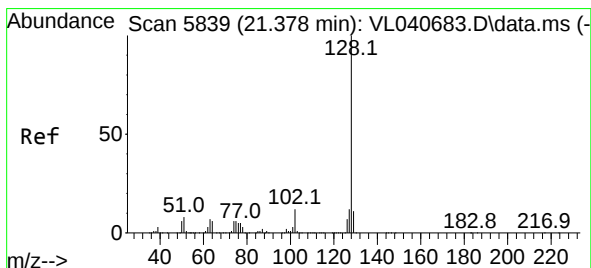
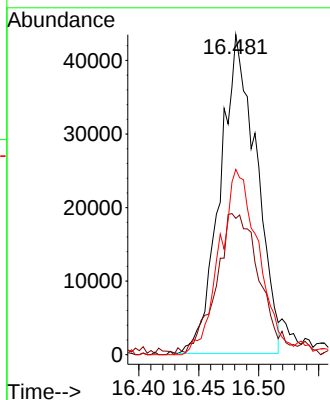
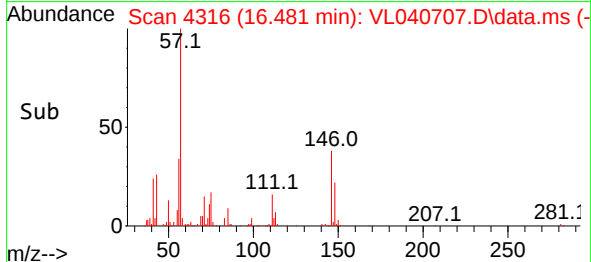
Instrument :
MSVOA_L
ClientSampleId :
29W-1



Tgt Ion:146 Resp: 9145
Ion Ratio Lower Upper
146 100
111 53.4 23.8 71.2
148 64.8 32.6 97.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#79
Naphthalene
Concen: 2.057 ppbv
RT: 21.400 min Scan# 5846
Delta R.T. 0.007 min
Lab File: VL040707.D
Acq: 18 Sep 2023 20:23

Tgt Ion:128 Resp: 356708
Ion Ratio Lower Upper
128 100
127 11.4 9.8 14.6
129 8.7 8.4 12.6

