

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041685.D
 Acq On : 7 Nov 2024 19:44
 Operator : SY/MD
 Sample : P4696-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 03:52:53 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	997762	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2739725	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2460095	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1817731	10.028	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.300%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.722	85	49514	0.275	ppbv	94
4) Chloromethane	2.806	50	11659	0.169	ppbv	96
9) Propene	2.700	41	126368	2.231	ppbv #	78
10) Heptane	7.571	43	41446	0.327	ppbv	88
11) Trichlorofluoromethane	3.552	101	16384m	0.104	ppbv	
13) Ethanol	3.234	45	886981	255.724	ppbv	100
15) Acetone	3.455	43	5965604	48.581	ppbv	95
17) tert-Butyl alcohol	3.877	59	99243m	0.921	ppbv	
19) Isopropyl Alcohol	3.571	45	7037090	119.897	ppbv #	97
20) Methylene Chloride	3.928	84	14015	0.310	ppbv	97
26) Hexane	5.208	57	66127	0.677	ppbv #	36
27) Carbon Disulfide	4.121	76	18119	0.165	ppbv #	79
29) Chloroform	5.262	83	16209m	0.101	ppbv	
34) 2-Butanone	4.780	43	430285	3.154	ppbv	99
35) Carbon Tetrachloride	6.484	117	5452m	0.038	ppbv	
36) Benzene	6.362	78	29709m	0.146	ppbv	
51) 2-Hexanone	9.548	43	124925m	0.819	ppbv	
52) Tetrachloroethene	10.603	164	7453m	0.108	ppbv	
53) Toluene	9.214	91	159882	0.749	ppbv	100
59) m/p-Xylene	12.343	91	53649m	0.222	ppbv	
60) o-Xylene	13.047	91	42794m	0.186	ppbv	
72) 4-Ethyltoluene	15.175	105	45726m	0.171	ppbv	
73) 1,3,5-Trimethylbenzene	15.342	105	44079m	0.188	ppbv	
74) 1,2,4-Trimethylbenzene	16.095	105	145310	0.532	ppbv #	71

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

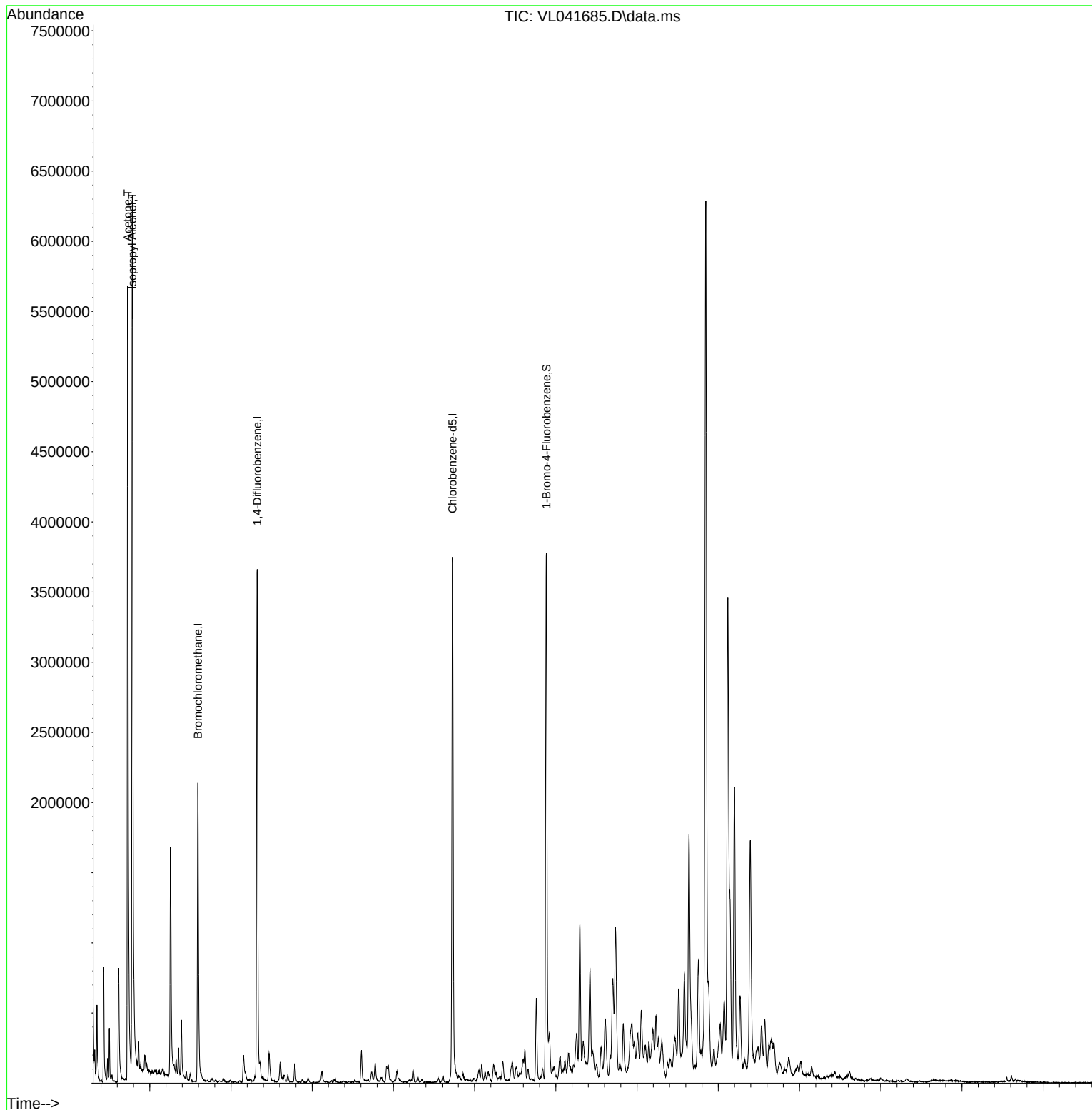
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
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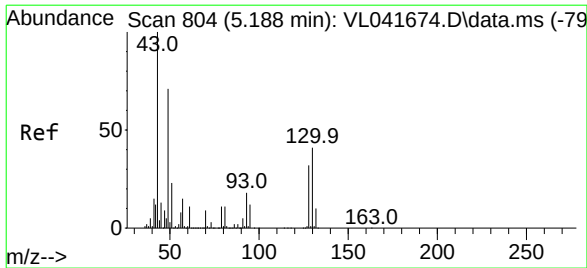
Instrument :
MSVOA_L
ClientSampleId :
SV1

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Nov 08 01:01:00 2024
Response via : Initial Calibration





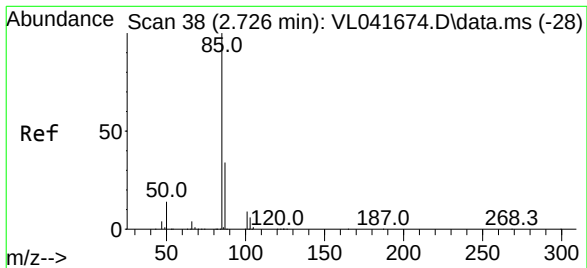
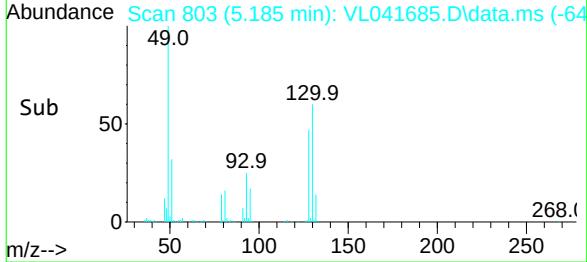
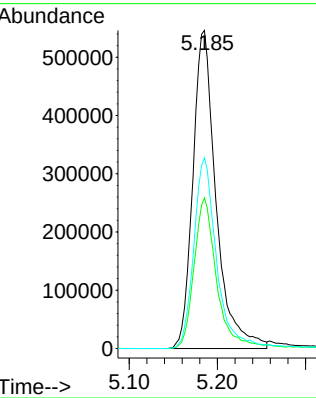
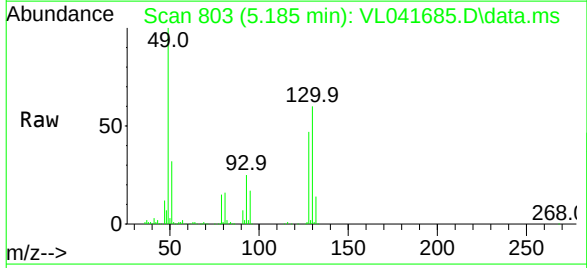
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 804
Delta R.T. -0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:	49	Resp:	997762
Ion	Ratio	Lower	Upper
49	100		
128	47.3	23.8	71.2
130	60.5	30.1	90.5

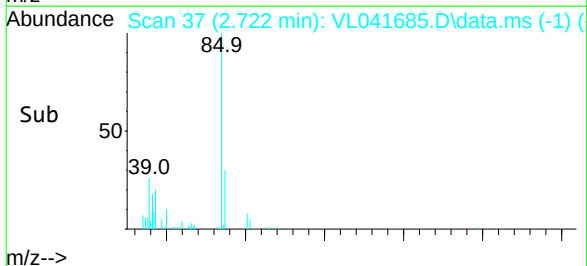
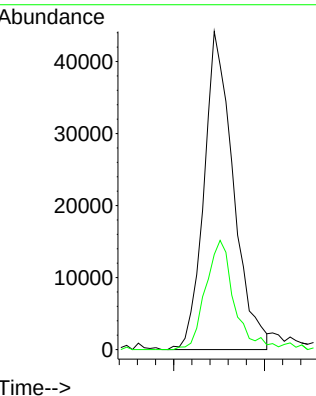
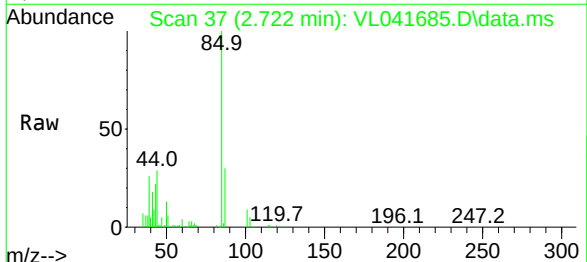
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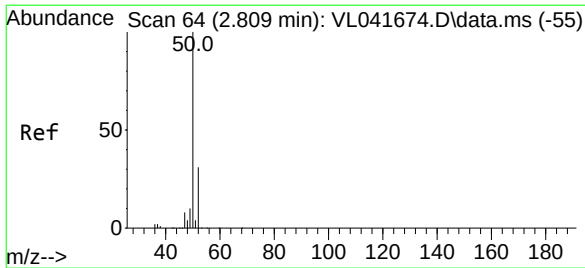
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#2
Dichlorodifluoromethane
Concen: 0.275 ppbv
RT: 2.722 min Scan# 37
Delta R.T. -0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

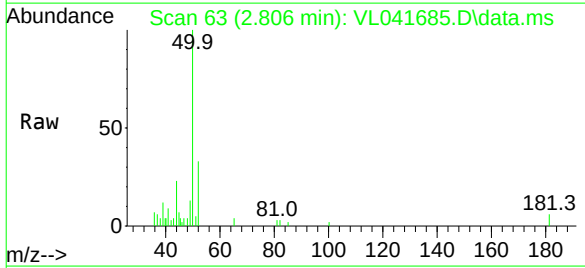
Tgt Ion:	85	Resp:	49514
Ion	Ratio	Lower	Upper
85	100		
87	29.9	26.8	40.2





#4
Chloromethane
Concen: 0.169 ppbv
RT: 2.806 min Scan# 63
Delta R.T. -0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

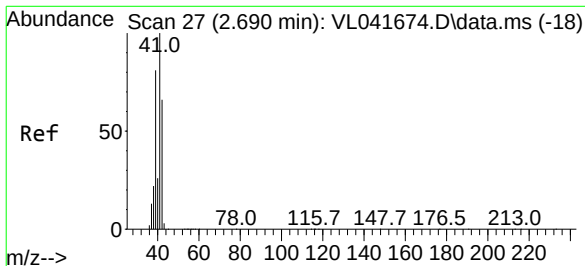
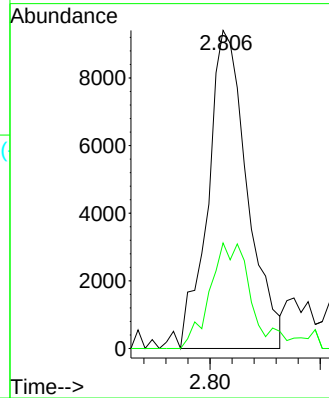
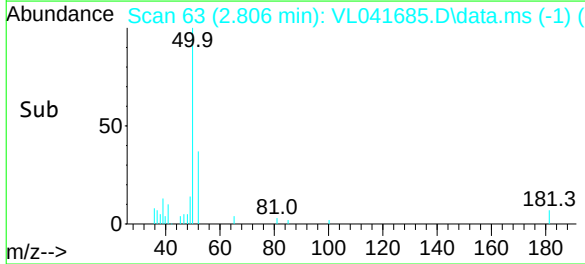
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 50 Resp: 11659
Ion Ratio Lower Upper
50 100
52 33.2 24.9 37.3

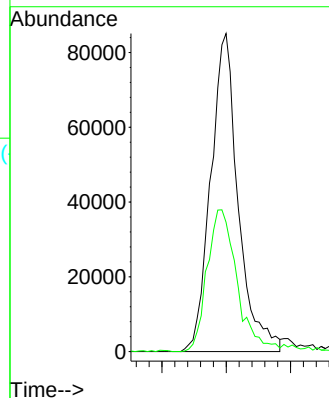
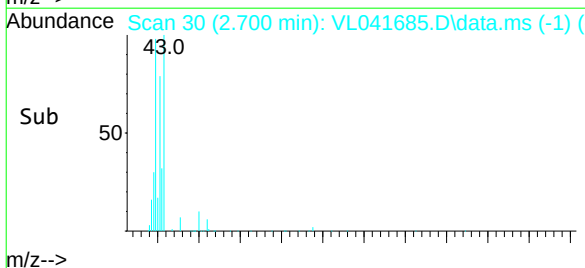
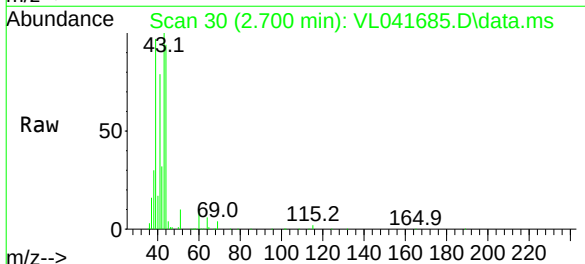
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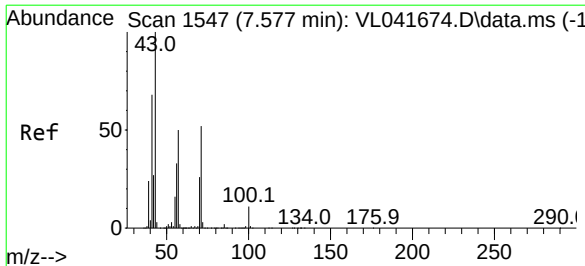
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#9
Propene
Concen: 2.231 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.010 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion: 41 Resp: 126368
Ion Ratio Lower Upper
41 100
42 50.7 55.0 82.4





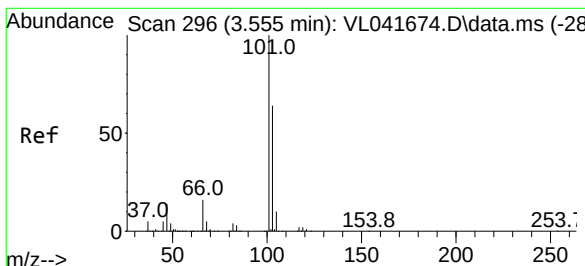
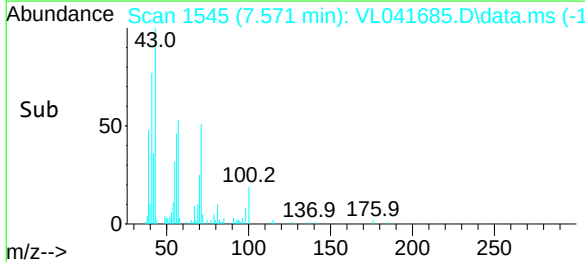
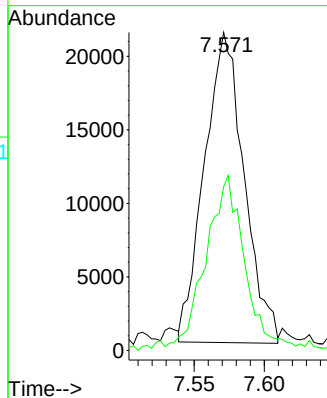
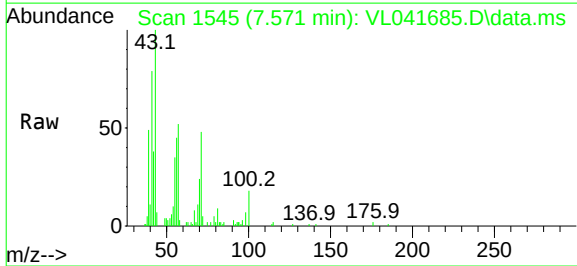
#10
Heptane
Concen: 0.327 ppbv
RT: 7.571 min Scan# 1547
Delta R.T. -0.006 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Instrument : MSVOA_L
ClientSampleId : SV1

Tgt Ion: 43 Resp: 41446
Ion Ratio Lower Upper
43 100
57 57.9 40.0 60.0

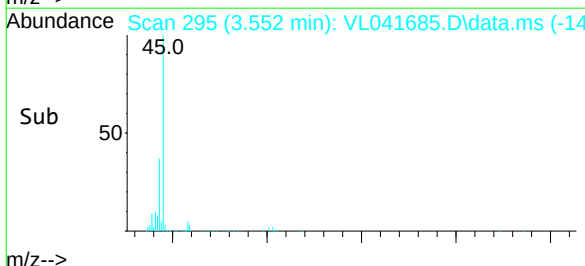
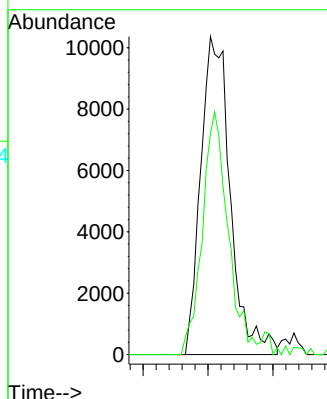
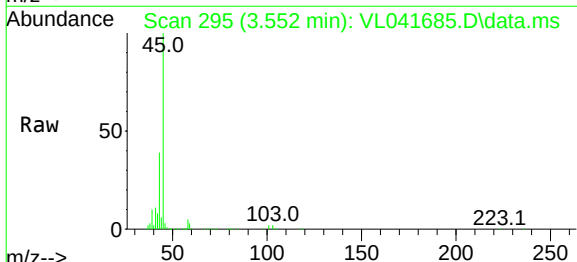
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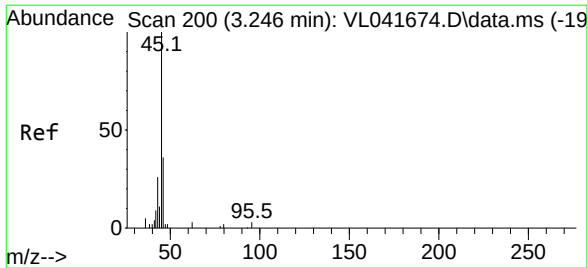
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#11
Trichlorofluoromethane
Concen: 0.104 ppbv m
RT: 3.552 min Scan# 295
Delta R.T. -0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion:101 Resp: 16384
Ion Ratio Lower Upper
101 100
103 69.5 51.0 76.6





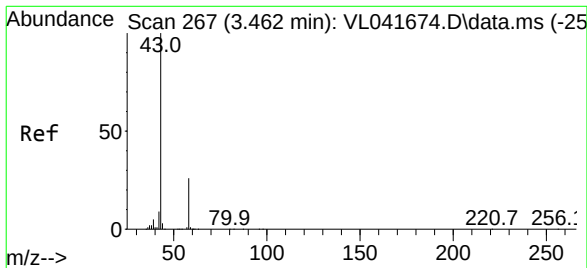
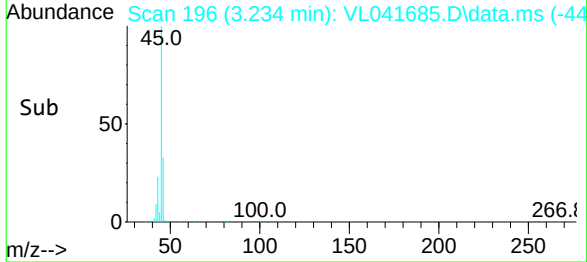
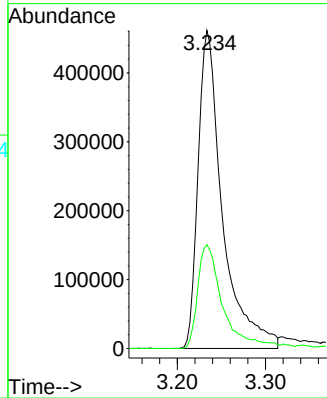
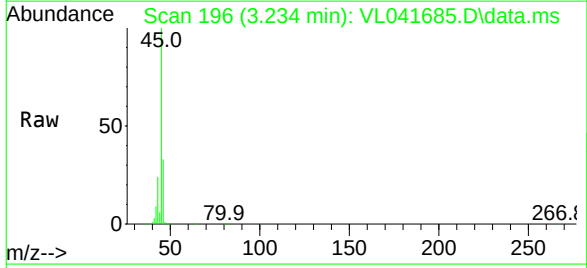
#13
Ethanol
Concen: 255.724 ppbv
RT: 3.234 min Scan# 19
Delta R.T. -0.013 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 886981
Ion Ratio Lower Upper
45 100
46 34.7 13.8 55.2

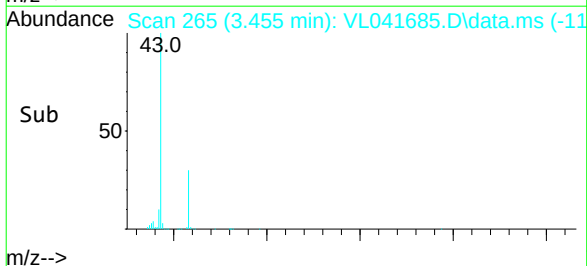
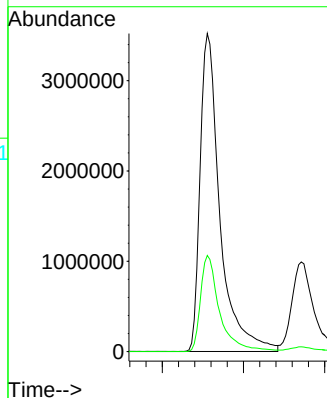
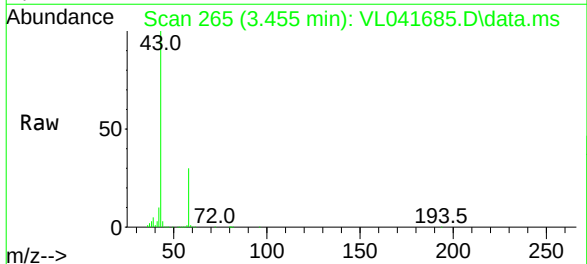
Manual Integrations
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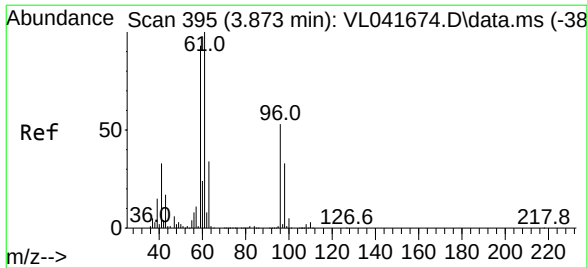
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#15
Acetone
Concen: 48.581 ppbv
RT: 3.455 min Scan# 265
Delta R.T. -0.006 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion: 43 Resp: 5965604
Ion Ratio Lower Upper
43 100
58 29.0 21.4 32.0





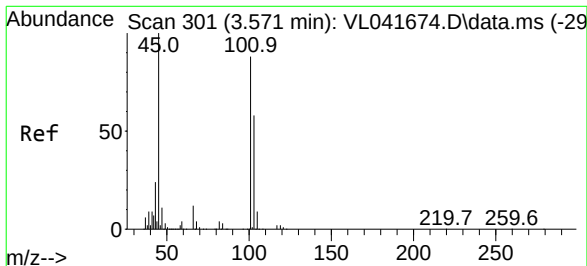
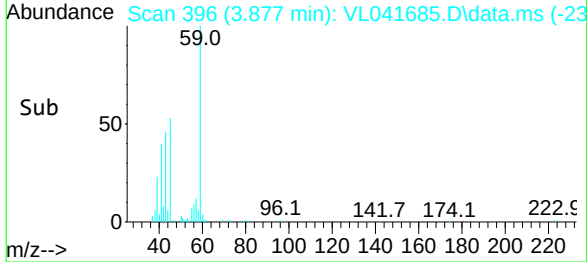
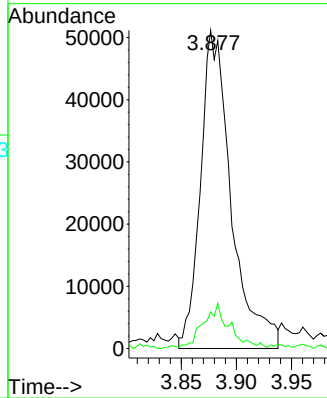
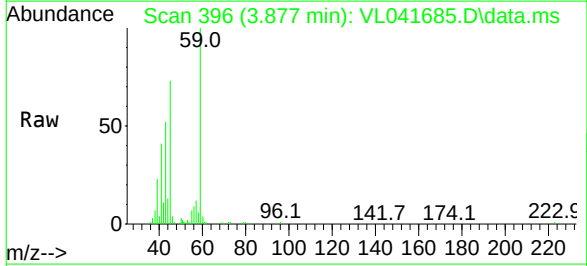
#17
tert-Butyl alcohol
Concen: 0.921 ppbv m
RT: 3.877 min Scan# 395
Delta R.T. 0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 59 Resp: 99243
Ion Ratio Lower Upper
59 100
57 30.6 8.5 12.7#

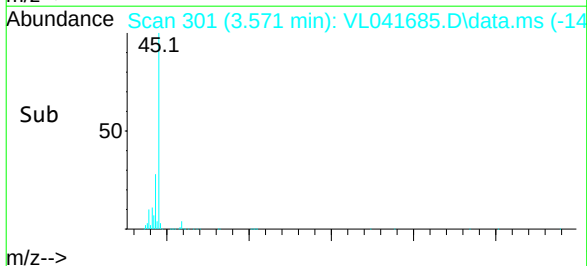
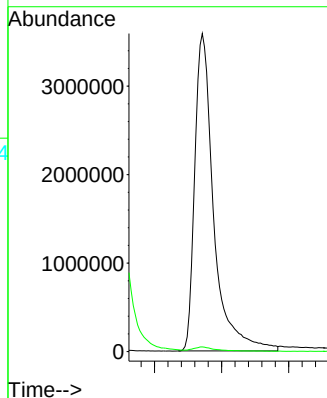
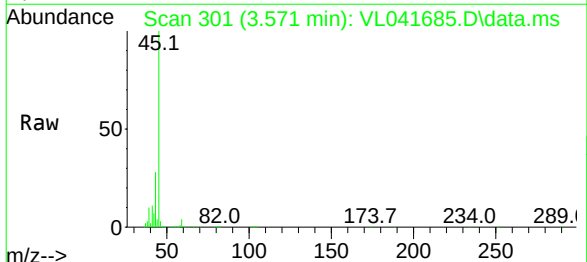
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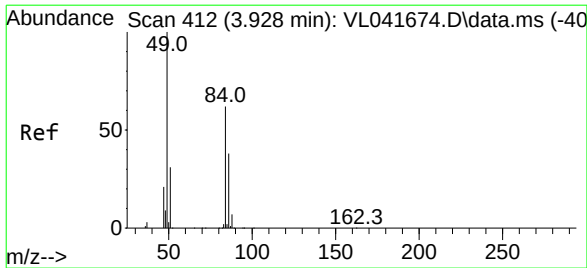
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#19
Isopropyl Alcohol
Concen: 119.897 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.000 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

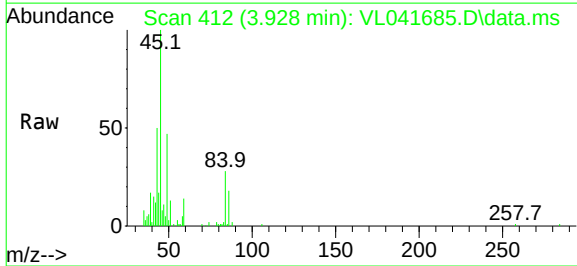
Tgt Ion: 45 Resp: 7037090
Ion Ratio Lower Upper
45 100
58 2.2 2.5 3.7#





#20
Methylene Chloride
Concen: 0.310 ppbv
RT: 3.928 min Scan# 412
Delta R.T. 0.000 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

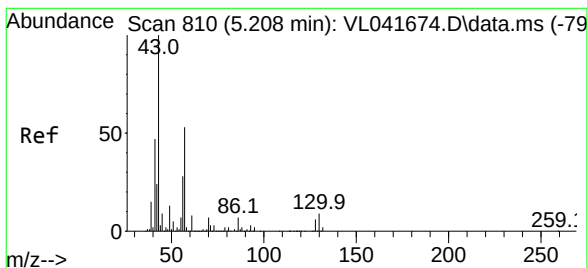
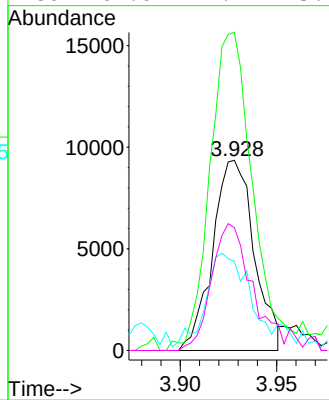
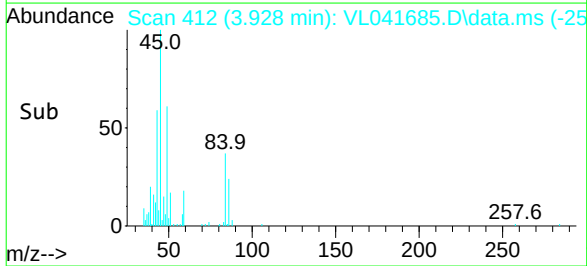
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 14015
Ion Ratio Lower Upper
84 100
49 163.1 129.7 194.5
51 42.3 39.8 59.6
86 64.6 49.1 73.7

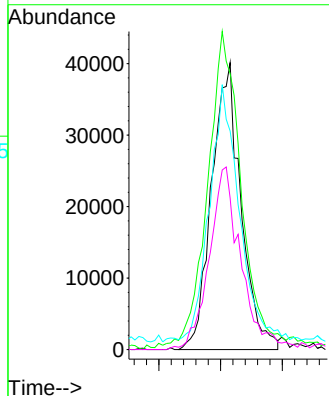
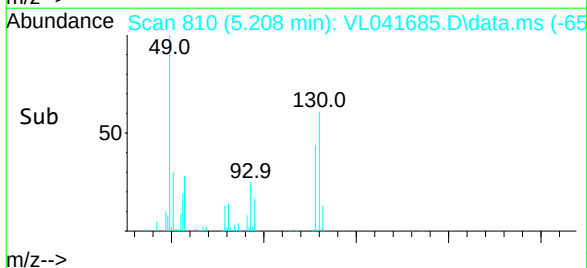
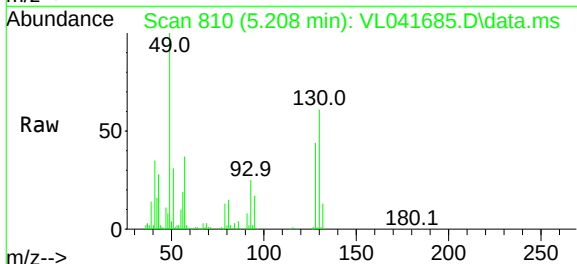
Manual Integrations
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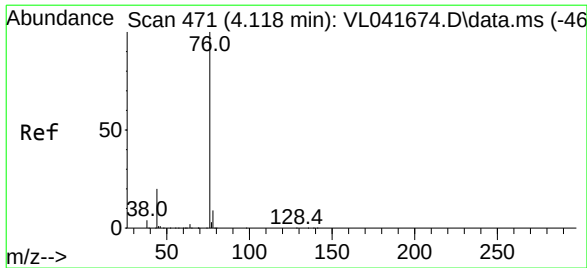
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#26
Hexane
Concen: 0.677 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.000 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion: 57 Resp: 66127
Ion Ratio Lower Upper
57 100
41 126.2 76.1 114.1#
43 108.9 207.0 310.6#
56 71.0 43.7 65.5#





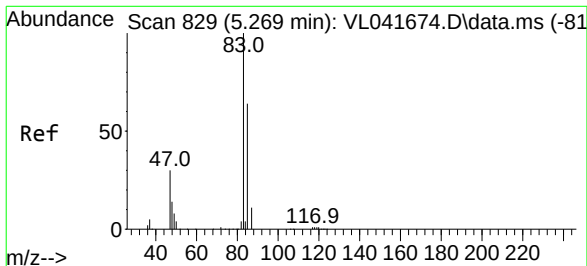
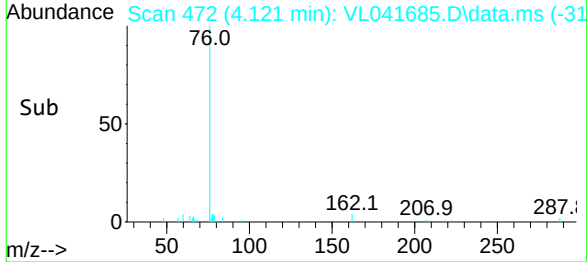
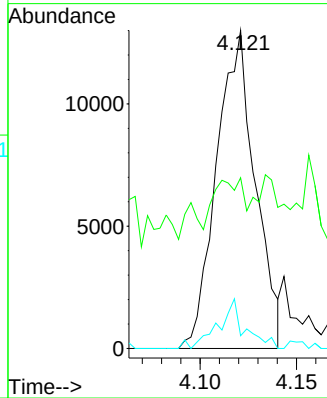
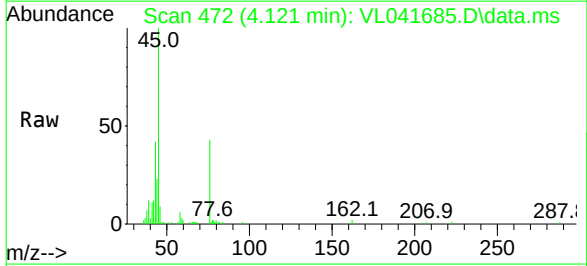
#27
Carbon Disulfide
Concen: 0.165 ppbv
RT: 4.121 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:	76	Resp:	18119
Ion	Ratio	Lower	Upper
76	100		
44	32.8	15.8	23.8
78	11.9	7.5	11.3

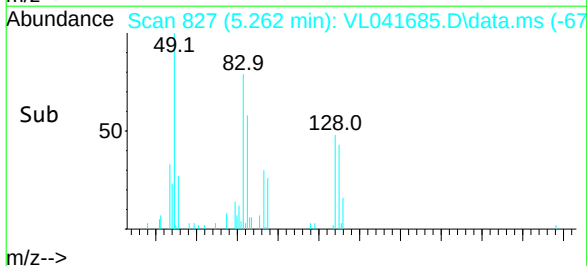
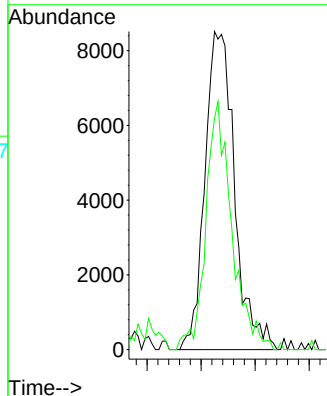
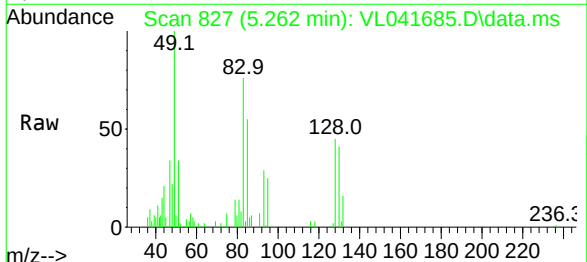
Manual Integrations
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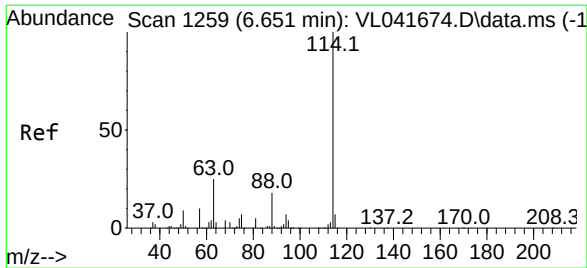
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#29
Chloroform
Concen: 0.101 ppbv m
RT: 5.262 min Scan# 827
Delta R.T. -0.006 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

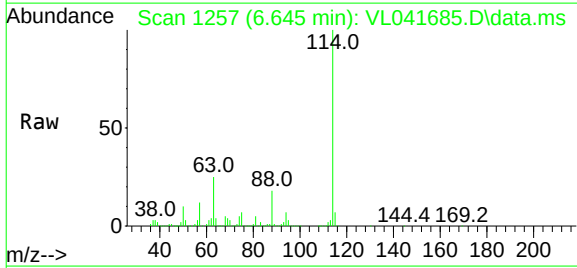
Tgt Ion:	83	Resp:	16209
Ion	Ratio	Lower	Upper
83	100		
85	72.8	51.1	76.7





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1259
Delta R.T. -0.006 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

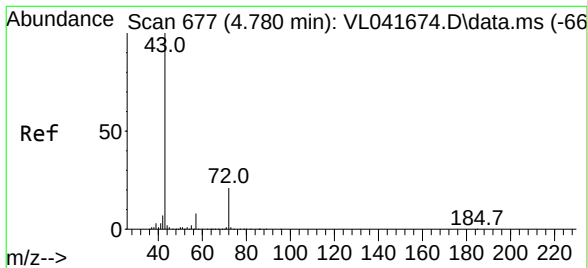
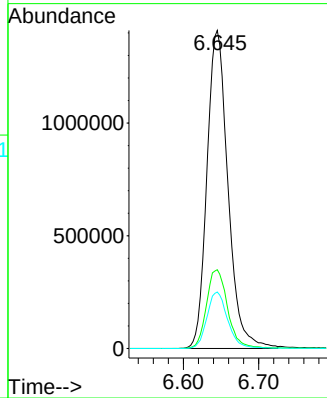
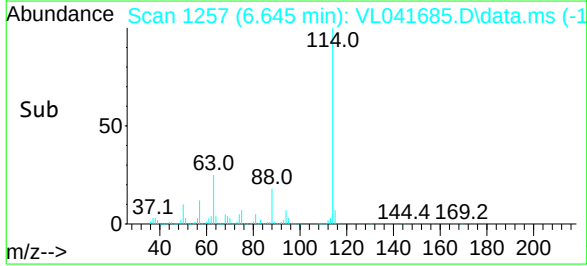
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 114 Resp: 2739725
Ion Ratio Lower Upper
114 100
63 25.2 20.3 30.5
88 17.7 14.2 21.4

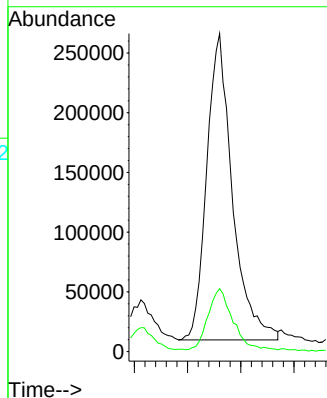
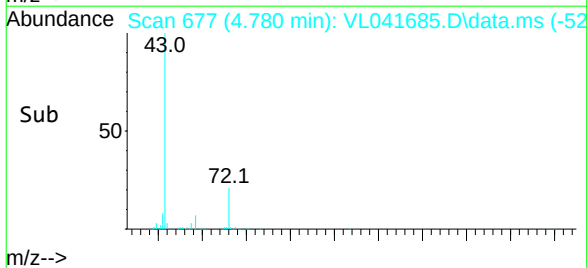
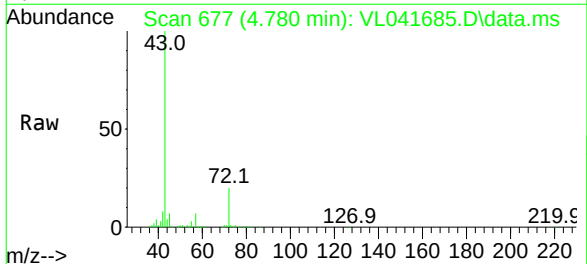
Manual Integrations
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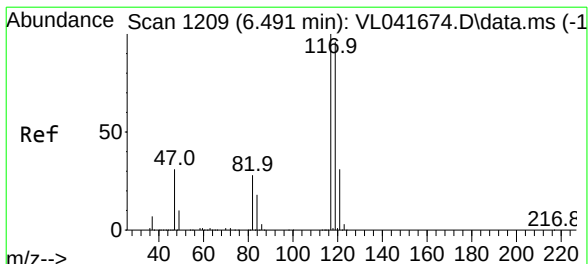
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#34
2-Butanone
Concen: 3.154 ppbv
RT: 4.780 min Scan# 677
Delta R.T. 0.000 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

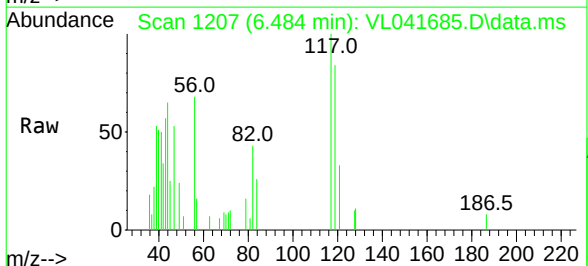
Tgt Ion: 43 Resp: 430285
Ion Ratio Lower Upper
43 100
72 21.3 17.4 26.0





#35
Carbon Tetrachloride
Concen: 0.038 ppbv m
RT: 6.484 min Scan# 1207
Delta R.T. -0.006 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Instrument : MSVOA_L
ClientSampleId : SV1

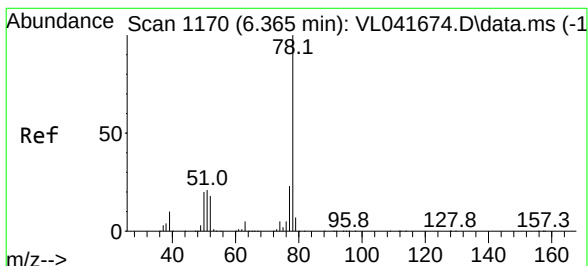
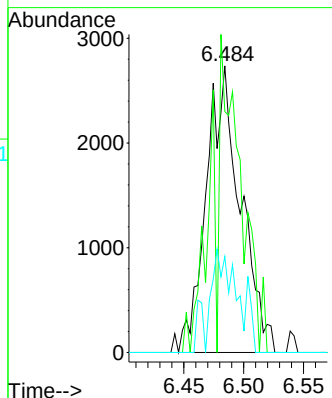
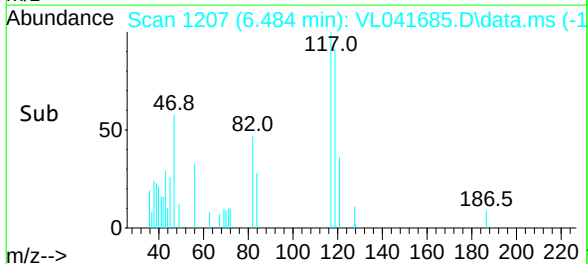


Tgt Ion: 117 Resp: 5452

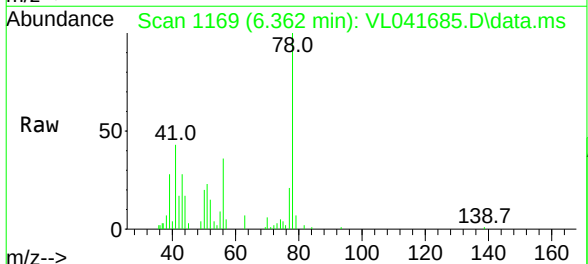
Ion	Ratio	Lower	Upper
117	100		
119	84.1	77.2	115.8
121	33.5	25.0	37.4

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Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024

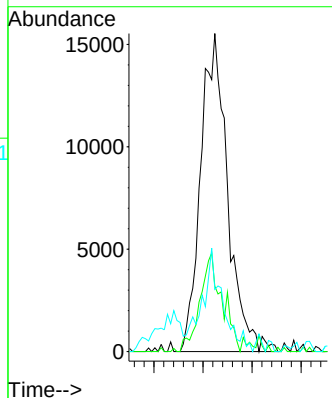
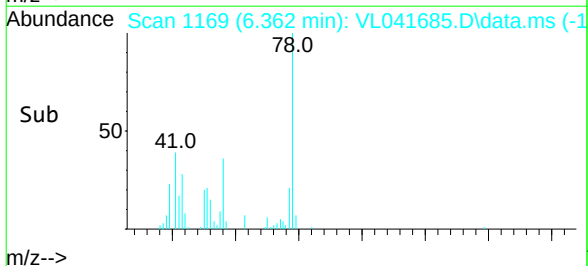


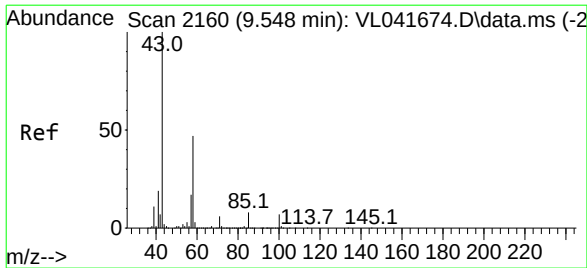
#36
Benzene
Concen: 0.146 ppbv m
RT: 6.362 min Scan# 1169
Delta R.T. -0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44



Tgt Ion: 78 Resp: 29709

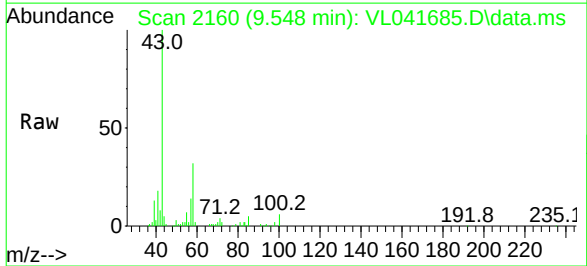
Ion	Ratio	Lower	Upper
78	100		
77	20.5	18.5	27.7
50	19.6	15.6	23.4





#51
2-Hexanone
Concen: 0.819 ppbv m
RT: 9.548 min Scan# 2160
Delta R.T. 0.000 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

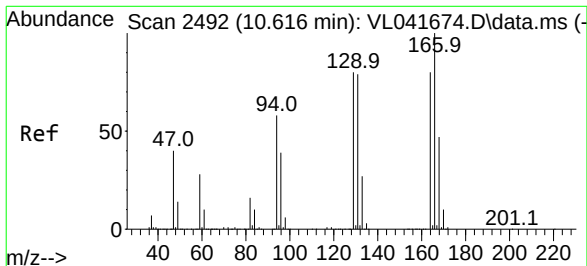
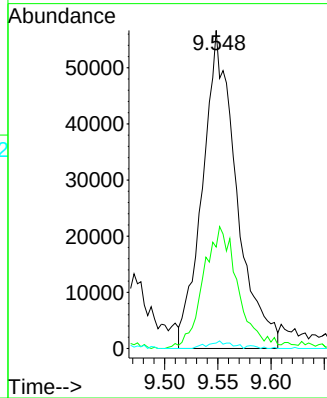
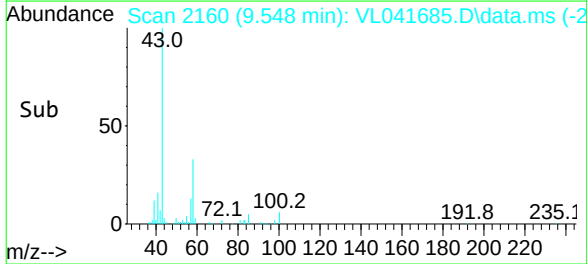
Instrument :
MSVOA_L
ClientSampleId :
SV1



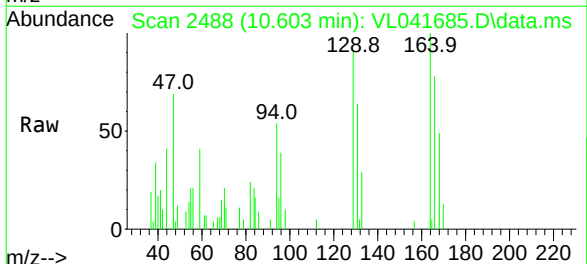
Tgt Ion: 43 Resp: 124925
Ion Ratio Lower Upper
43 100
58 0.0 37.0 55.6#
98 0.0 0.6 0.8#

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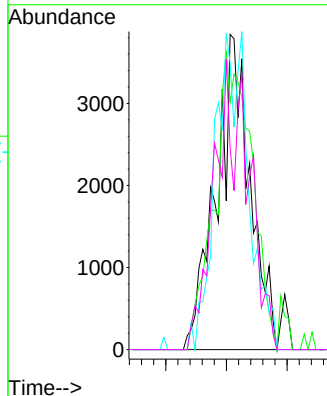
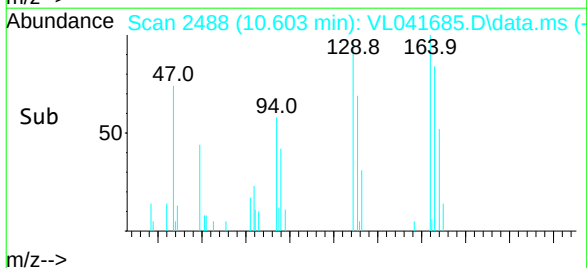
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024

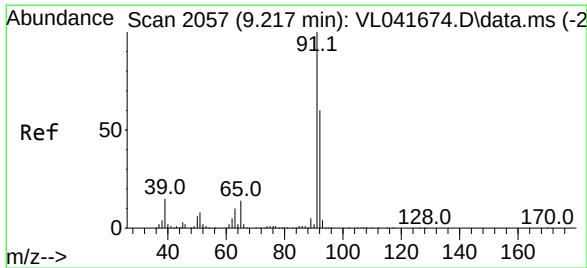


#52
Tetrachloroethene
Concen: 0.108 ppbv m
RT: 10.603 min Scan# 2488
Delta R.T. -0.013 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44



Tgt Ion:164 Resp: 7453
Ion Ratio Lower Upper
164 100
166 78.5 100.2 150.4#
129 90.9 79.7 119.5
131 64.0 79.0 118.4#





#53

Toluene

Concen: 0.749 ppbv

RT: 9.214 min Scan# 2057

Delta R.T. -0.003 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 159882

Ion Ratio Lower Upper

91 100

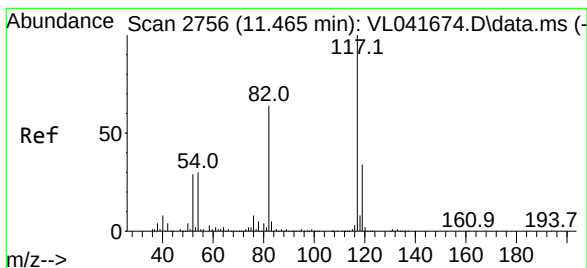
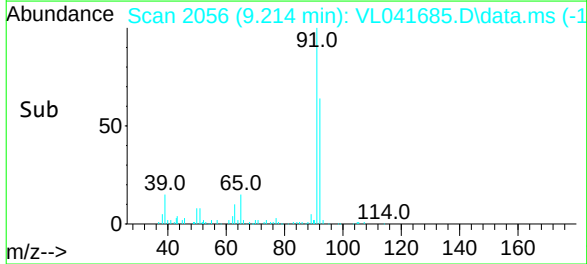
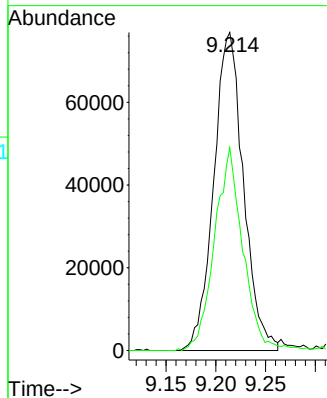
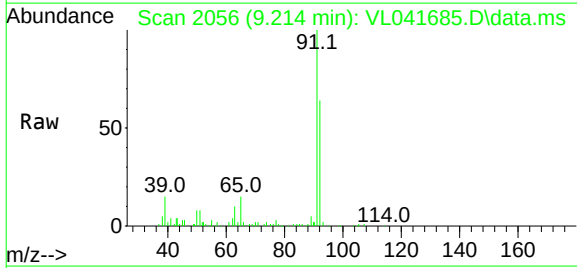
92 60.9 49.0 73.4

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 2753

Delta R.T. -0.010 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

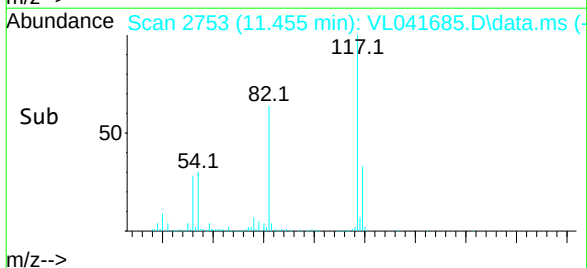
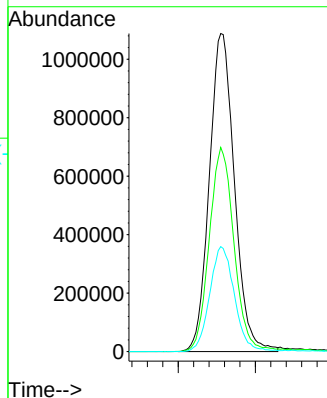
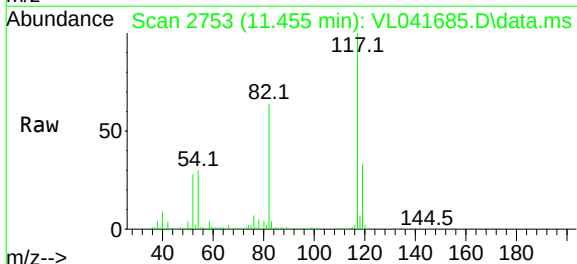
Tgt Ion:117 Resp: 2460095

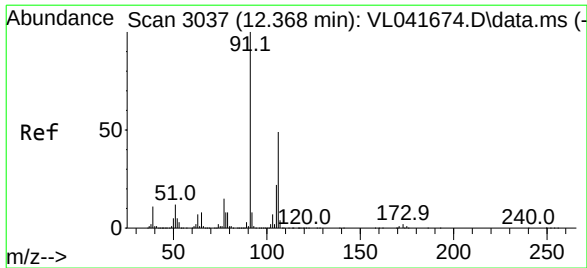
Ion Ratio Lower Upper

117 100

82 64.1 49.8 74.8

119 33.0 24.2 36.4





#59

m/p-Xylene

Concen: 0.222 ppbv m

RT: 12.343 min Scan# 30

Delta R.T. -0.026 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 53649

Ion Ratio Lower Upper

91 100

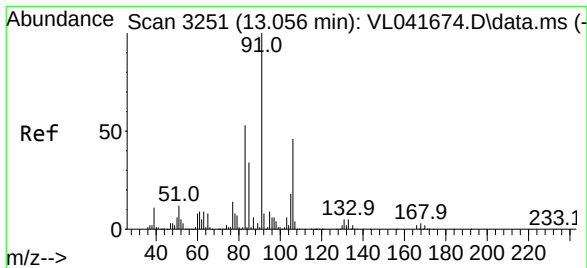
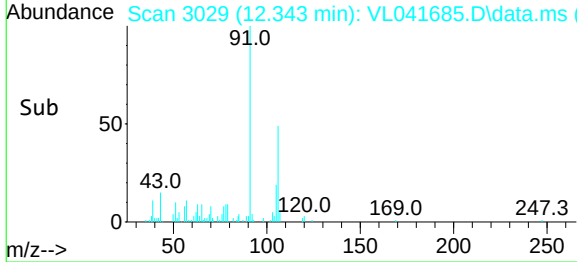
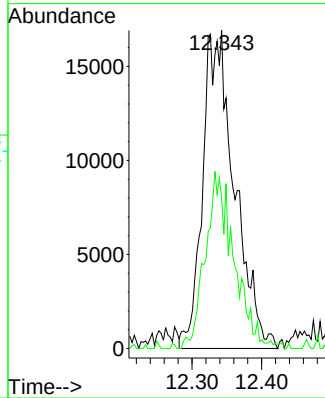
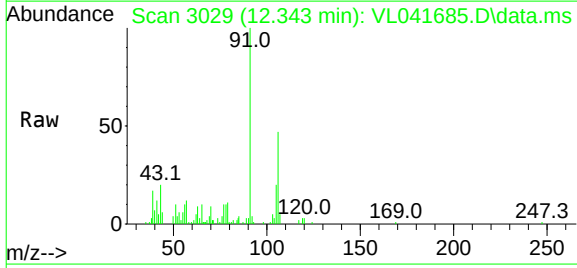
106 0.0 36.9 55.3#

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#60

o-Xylene

Concen: 0.186 ppbv m

RT: 13.047 min Scan# 3248

Delta R.T. -0.010 min

Lab File: VL041685.D

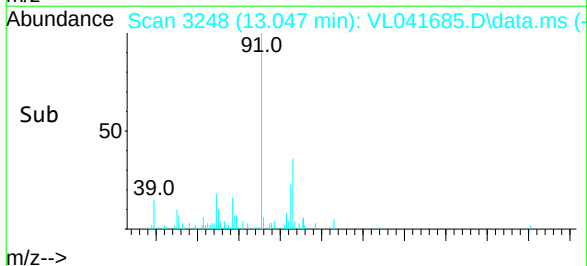
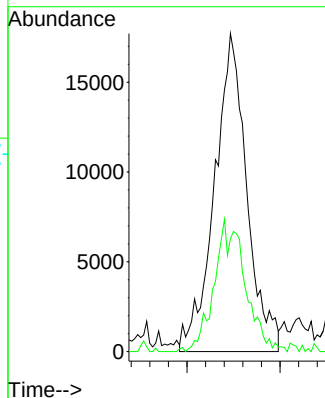
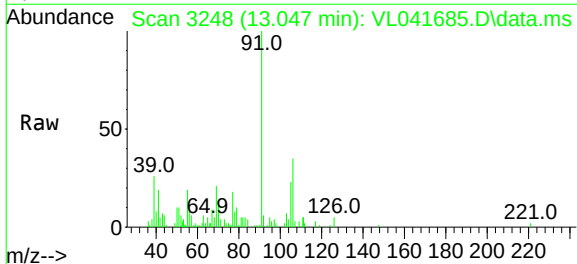
Acq: 7 Nov 2024 19:44

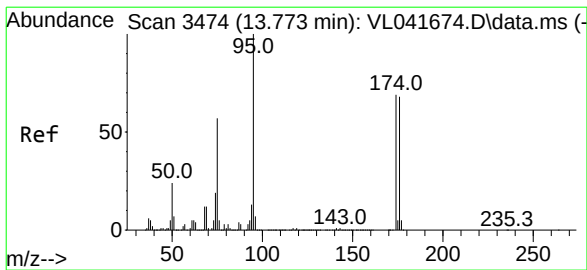
Tgt Ion: 91 Resp: 42794

Ion Ratio Lower Upper

91 100

106 40.9 23.2 69.6





#68

1-Bromo-4-Fluorobenzene

Concen: 10.028 ppbv

RT: 13.767 min Scan# 3474

Delta R.T. -0.006 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 95 Resp: 1817731

Ion Ratio Lower Upper

95 100

174 70.1 55.6 83.4

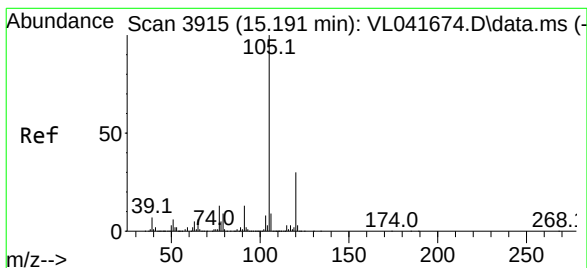
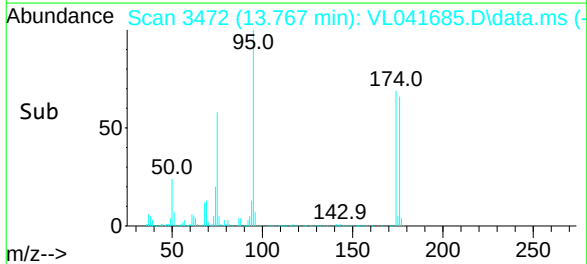
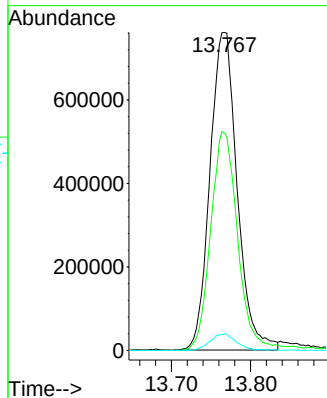
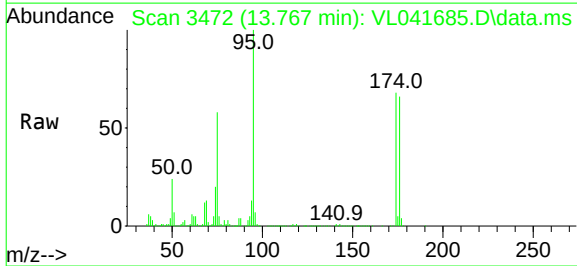
175 5.2 4.2 6.2

Manual Integrations

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Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#72

4-Ethyltoluene

Concen: 0.171 ppbv m

RT: 15.175 min Scan# 3910

Delta R.T. -0.016 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Tgt Ion:105 Resp: 45726

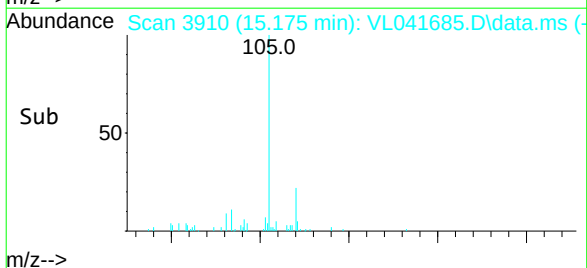
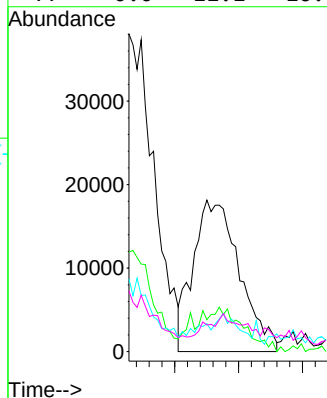
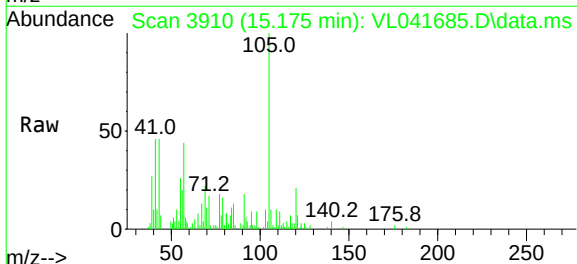
Ion Ratio Lower Upper

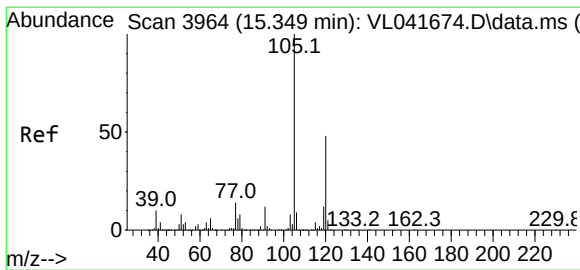
105 100

120 0.0 25.0 37.4#

91 0.0 10.6 15.8#

77 0.0 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.188 ppbv m

RT: 15.342 min Scan# 39

Delta R.T. -0.006 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

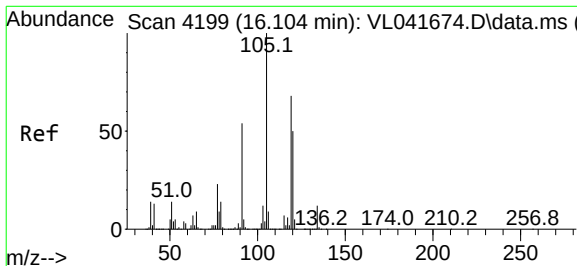
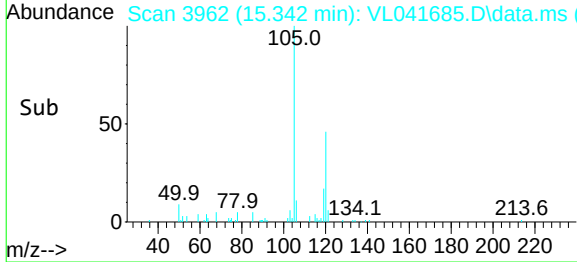
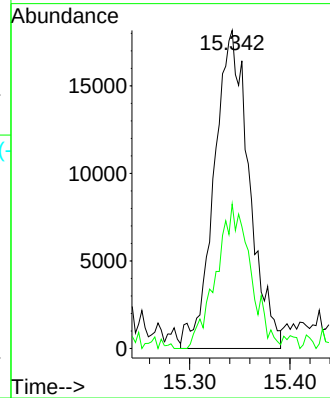
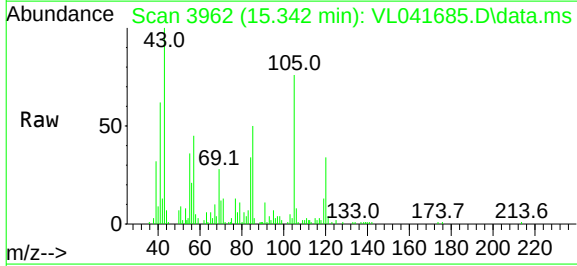
SV1

Tgt Ion:105 Resp: 44079
 Ion Ratio Lower Upper
 105 100
 120 45.4 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.532 ppbv

RT: 16.095 min Scan# 4196

Delta R.T. -0.010 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Tgt Ion:105 Resp: 145310
 Ion Ratio Lower Upper
 105 100
 120 44.4 39.8 59.8
 91 14.2 43.2 64.8#
 77 16.2 18.5 27.7#

