

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041605.D
 Acq On : 18 Sep 2024 13:42
 Operator : SY/MD
 Sample : P4028-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

09/19/2024
 Supervised By : Mahesh
 Dadoda

Quant Time: Sep 19 01:32:42 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.189	49	873658	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.652	114	2449749	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.459	117	2230436	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.770	95	1637558	9.973	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.739	85	37493	0.297	ppbv	96
3) Chlorodifluoromethane	2.681	51	32865m	0.310	ppbv	
4) Chloromethane	2.822	50	31818	0.546	ppbv #	88
9) Propene	2.706	41	56780	1.270	ppbv	92
10) Heptane	7.574	43	16778	0.160	ppbv	90
11) Trichlorofluoromethane	3.565	101	33119	0.247	ppbv	94
13) Ethanol	3.237	45	1441284	428.905	ppbv	94
15) Acetone	3.472	43	643754	5.869	ppbv	95
19) Isopropyl Alcohol	3.581	45	240865	4.290	ppbv #	91
20) Methylene Chloride	3.935	84	84712	2.056	ppbv	96
26) Hexane	5.211	57	64569	0.786	ppbv #	57
34) 2-Butanone	4.790	43	65953	0.565	ppbv	98
35) Carbon Tetrachloride	6.491	117	9648m	0.080	ppbv	
36) Benzene	6.365	78	72852	0.428	ppbv	95
44) 2,2,4-Trimethylpentane	7.327	57	57890	0.197	ppbv #	64
52) Tetrachloroethene	10.616	164	3237m	0.053	ppbv	
53) Toluene	9.214	91	364858	2.020	ppbv	100
58) Ethyl Benzene	12.086	91	31350m	0.131	ppbv	
59) m/p-Xylene	12.343	91	107063m	0.504	ppbv	
60) o-Xylene	13.047	91	49342m	0.242	ppbv	
61) Styrene	12.889	104	11173m	0.131	ppbv	
64) n-propylbenzene	14.915	120	10002m	0.125	ppbv	
72) 4-Ethyltoluene	15.188	105	47913	0.201	ppbv #	93
73) 1,3,5-Trimethylbenzene	15.355	105	47740m	0.227	ppbv	
74) 1,2,4-Trimethylbenzene	16.101	105	185611	0.754	ppbv #	71

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

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Sample : P4028-02
Misc : 400mL/MSVOA_L
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IA1

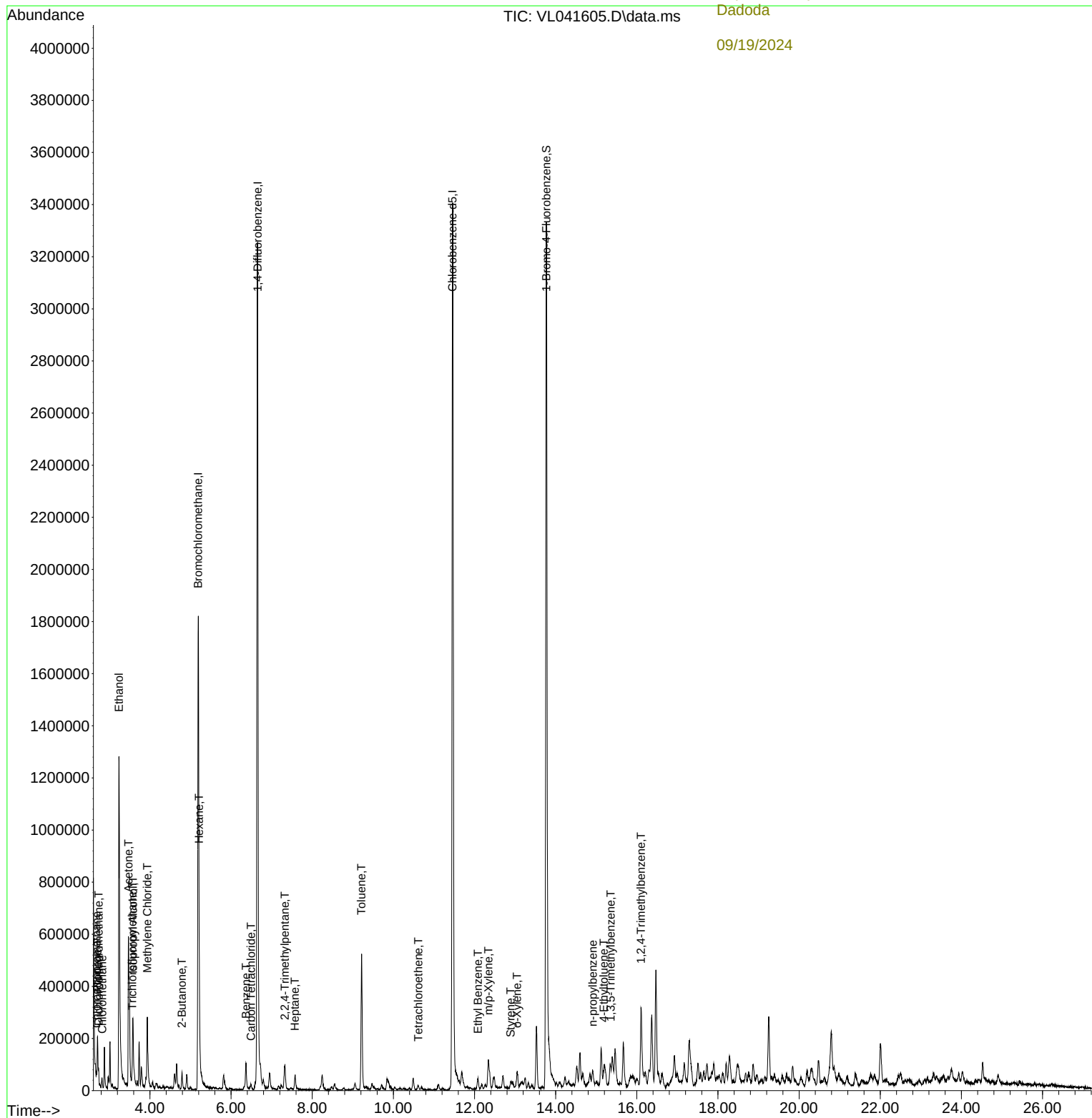
Quant Time: Sep 19 01:32:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 17 09:12:21 2024
Response via : Initial Calibration

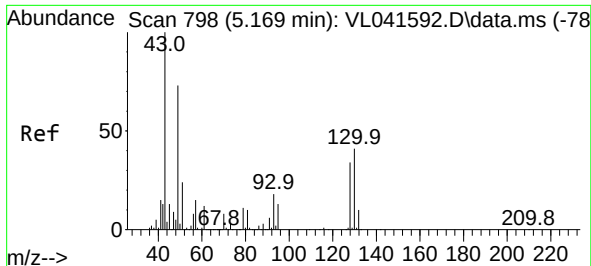
Manual Integrations
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Reviewed By : Semsettin
Yesilyurt

09/19/2024
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Dadoda

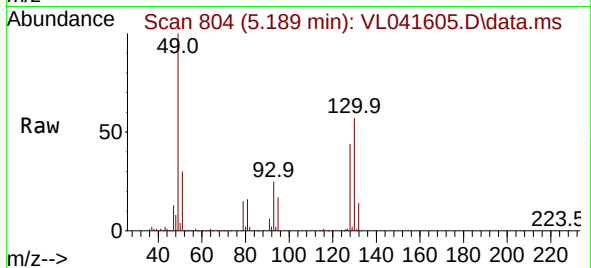
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#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. 0.020 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Instrument :
MSVOA_L
ClientSampleId :
IA1



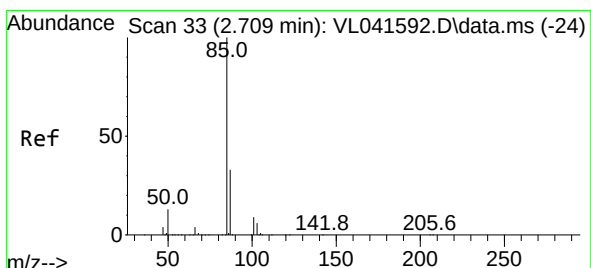
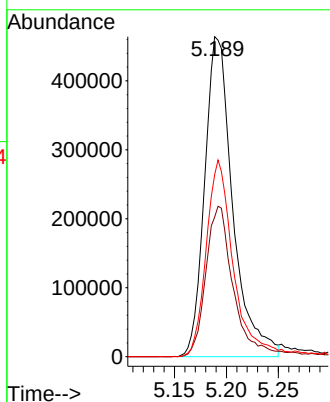
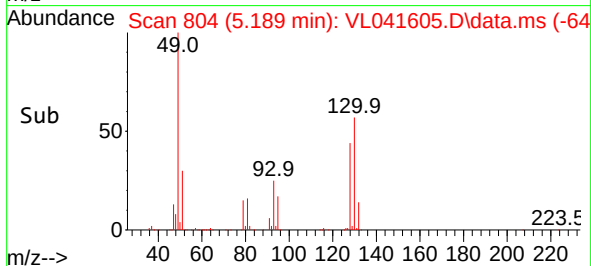
Tgt Ion: 49 Resp: 87365
Ion Ratio Lower Upper
49 100
128 48.0 23.8 71.5
130 61.9 30.4 91.3

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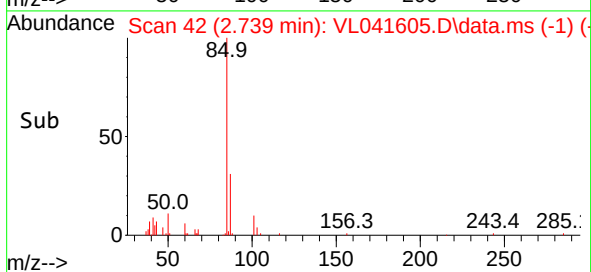
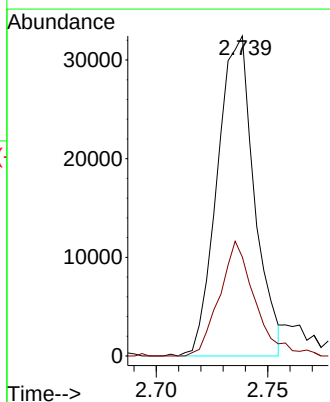
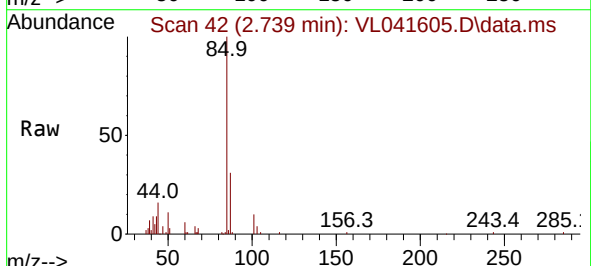
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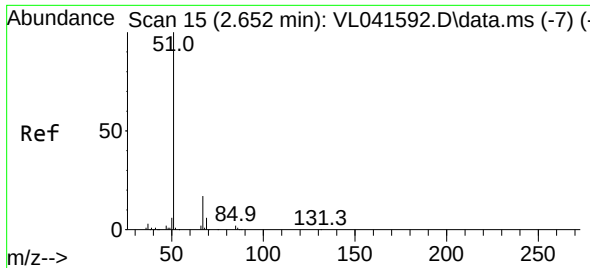
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#2
Dichlorodifluoromethane
Concen: 0.297 ppbv
RT: 2.739 min Scan# 42
Delta R.T. 0.029 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

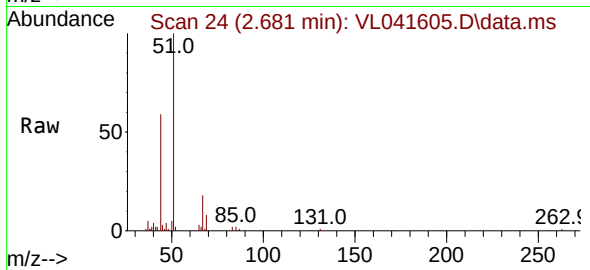
Tgt Ion: 85 Resp: 37493
Ion Ratio Lower Upper
85 100
87 30.9 26.3 39.5





#3
Chlorodifluoromethane
Concen: 0.310 ppbv m
RT: 2.681 min Scan# 24
Delta R.T. 0.029 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Instrument :
MSVOA_L
ClientSampleId :
IA1



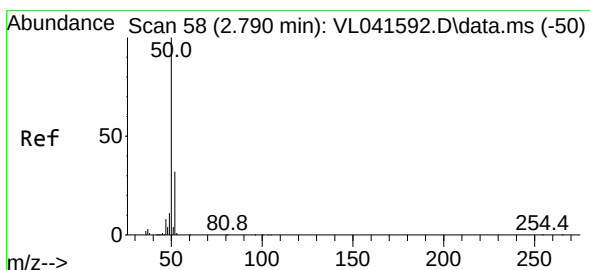
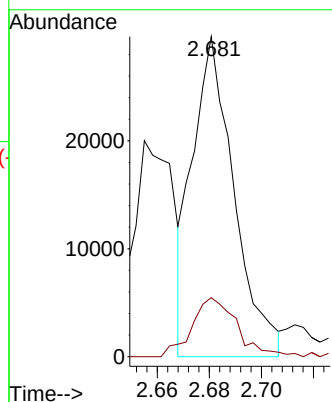
Tgt Ion: 51 Resp: 3286
Ion Ratio Lower Upper
51 100
67 20.6 14.1 21.1

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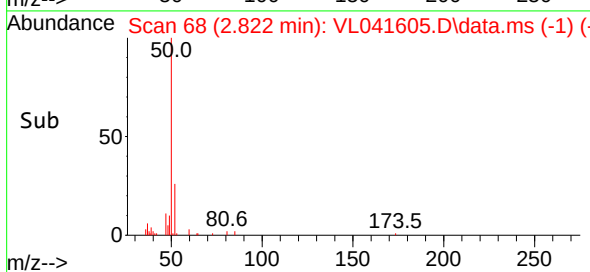
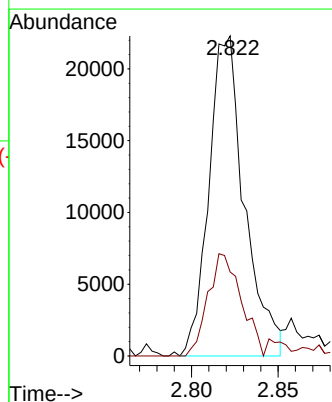
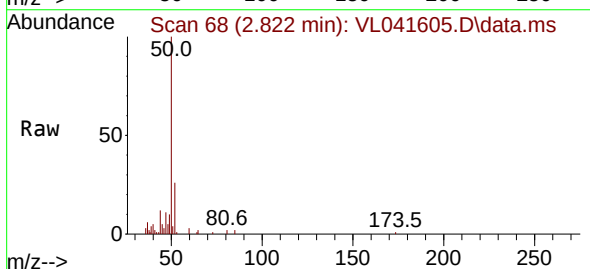
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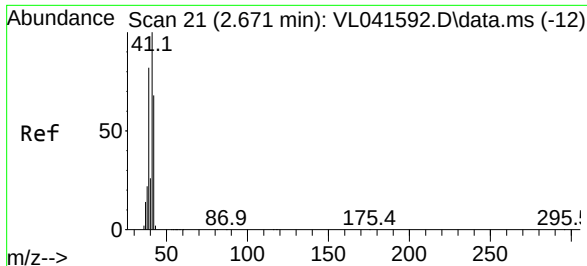
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#4
Chloromethane
Concen: 0.546 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.032 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

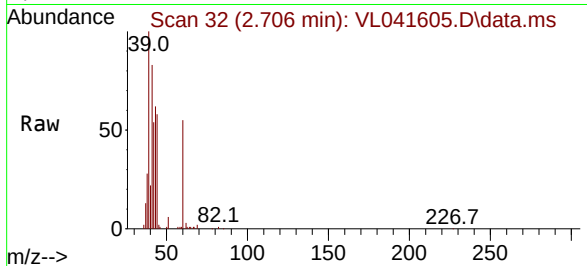
Tgt Ion: 50 Resp: 31818
Ion Ratio Lower Upper
50 100
52 25.3 25.4 38.2#





#9
Propene
Concen: 1.270 ppbv
RT: 2.706 min Scan# 31
Delta R.T. 0.036 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Instrument :
MSVOA_L
ClientSampleId :
IA1



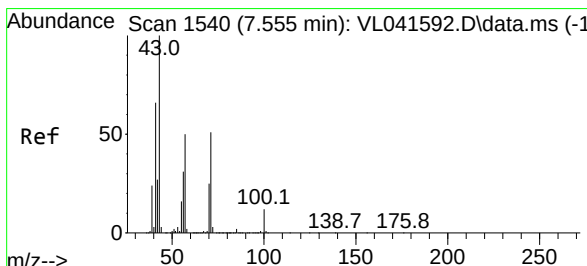
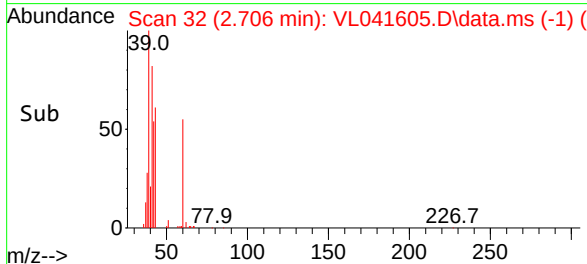
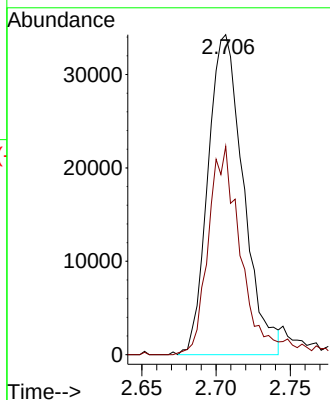
Tgt Ion: 41 Resp: 56780
Ion Ratio Lower Upper
41 100
42 62.4 55.2 82.8

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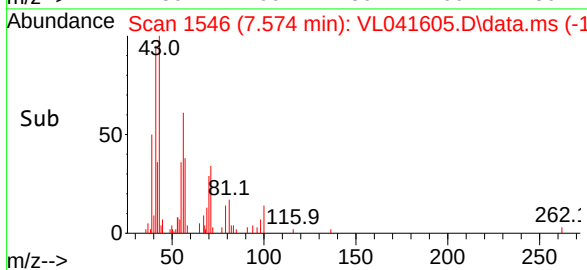
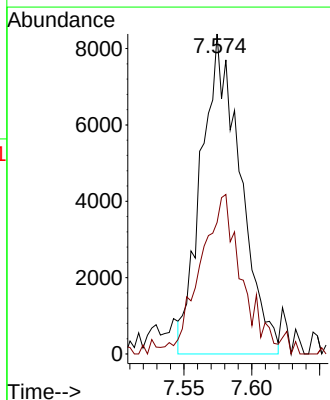
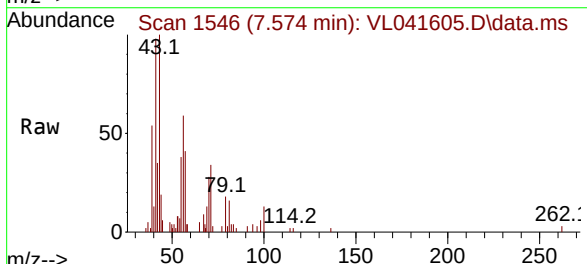
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Supervised By :Mahesh
Dadoda

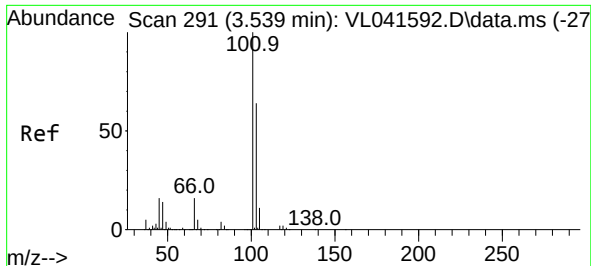
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#10
Heptane
Concen: 0.160 ppbv
RT: 7.574 min Scan# 1546
Delta R.T. 0.020 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Tgt Ion: 43 Resp: 16778
Ion Ratio Lower Upper
43 100
57 56.4 39.8 59.8





#11
Trichlorofluoromethane
Concen: 0.247 ppbv
RT: 3.565 min Scan# 291
Delta R.T. 0.026 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Instrument :
MSVOA_L
ClientSampleId :
IA1

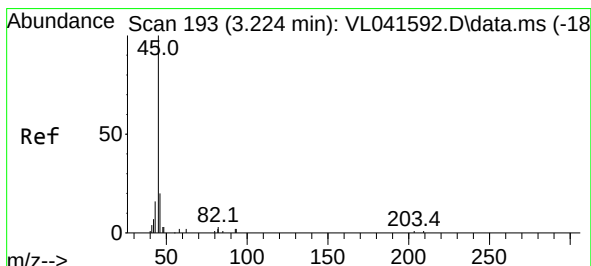
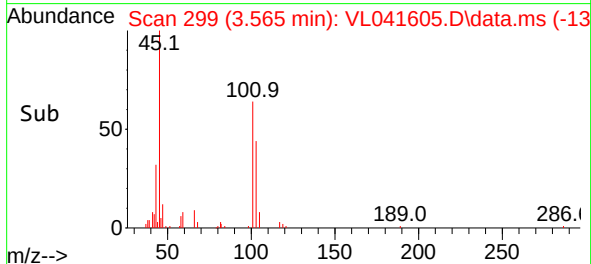
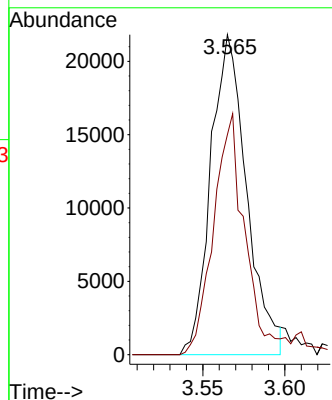
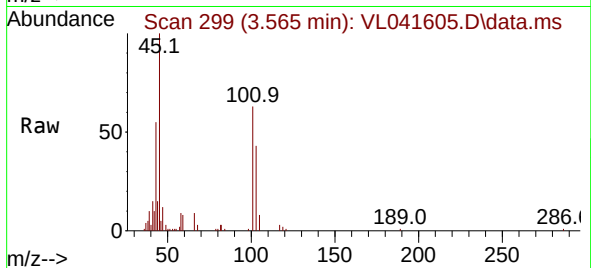
Tgt Ion:101 Resp: 33119
Ion Ratio Lower Upper
101 100
103 68.8 51.2 76.8

Manual Integrations
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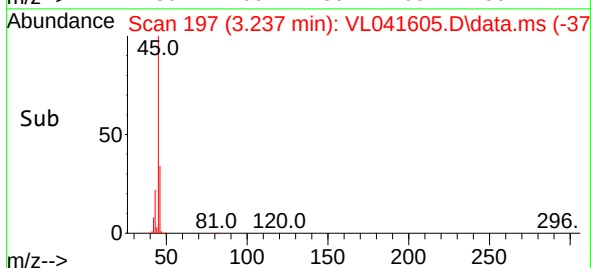
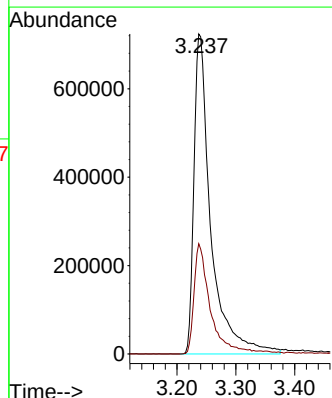
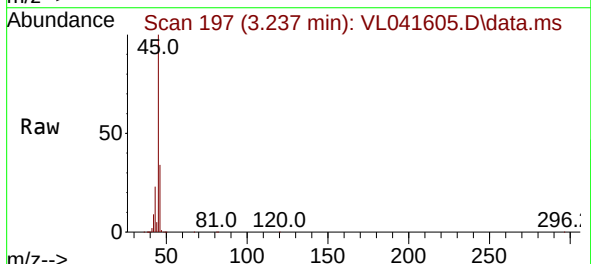
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Dadoda

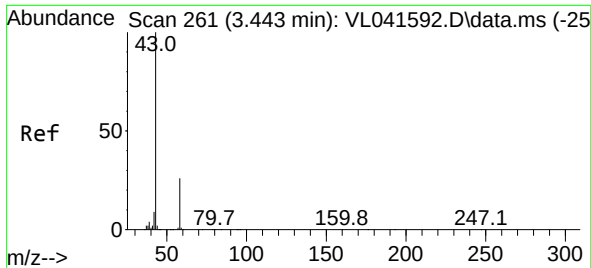
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#13
Ethanol
Concen: 428.905 ppbv
RT: 3.237 min Scan# 197
Delta R.T. 0.013 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

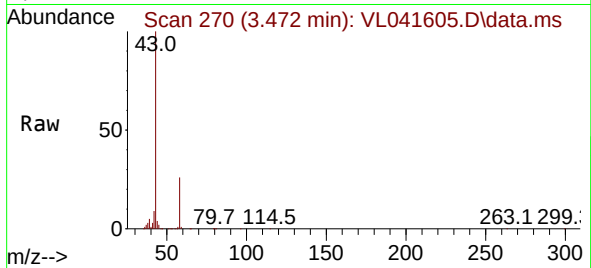
Tgt Ion: 45 Resp: 1441284
Ion Ratio Lower Upper
45 100
46 34.3 15.2 60.8





#15
Acetone
Concen: 5.869 ppbv
RT: 3.472 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Instrument :
MSVOA_L
ClientSampleId :
IA1



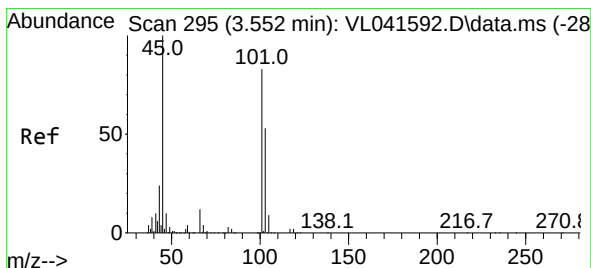
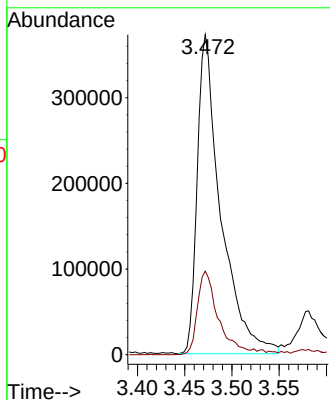
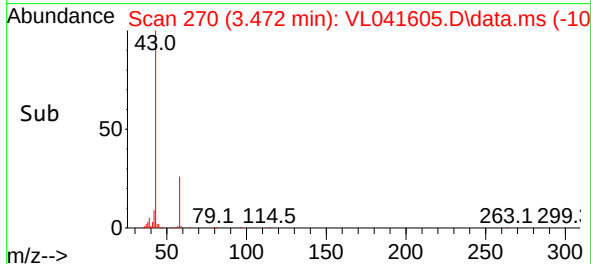
Tgt Ion: 43 Resp: 643754
Ion Ratio Lower Upper
43 100
58 24.5 21.5 32.3

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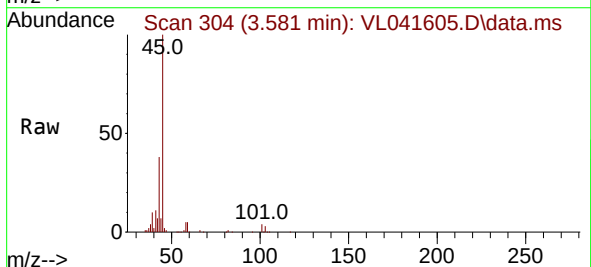
Reviewed By :Semsettin
Yesilyurt

09/19/2024
Supervised By :Mahesh
Dadoda

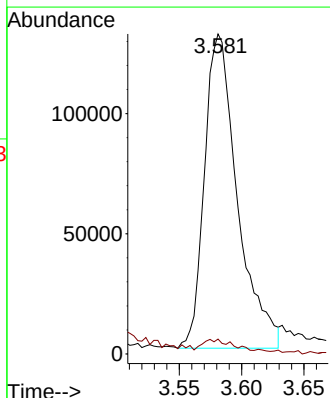
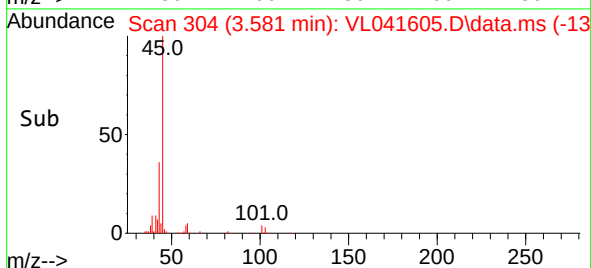
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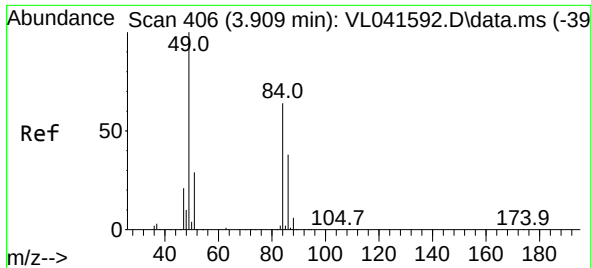


#19
Isopropyl Alcohol
Concen: 4.290 ppbv
RT: 3.581 min Scan# 304
Delta R.T. 0.029 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42



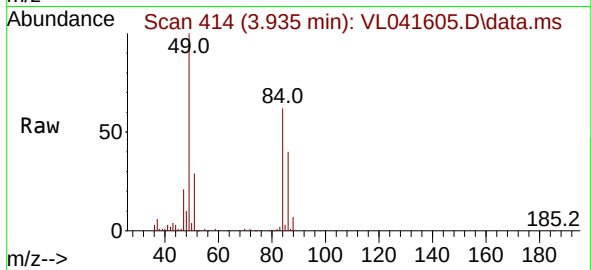
Tgt Ion: 45 Resp: 240865
Ion Ratio Lower Upper
45 100
58 5.7 2.1 3.1#





#20
Methylene Chloride
Concen: 2.056 ppbv
RT: 3.935 min Scan# 411
Delta R.T. 0.026 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Instrument :
MSVOA_L
ClientSampleId :
IA1



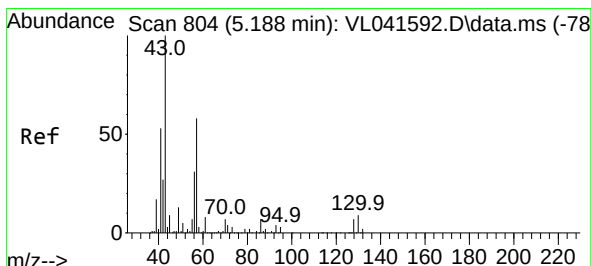
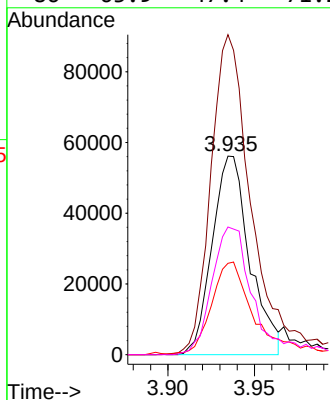
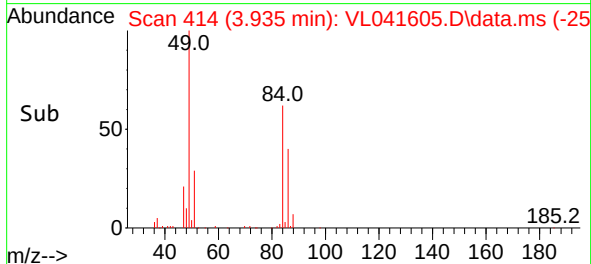
Tgt Ion: 84 Resp: 84712
Ion Ratio Lower Upper
84 100
49 159.8 124.3 186.5
51 44.9 36.3 54.5
86 63.9 47.4 71.2

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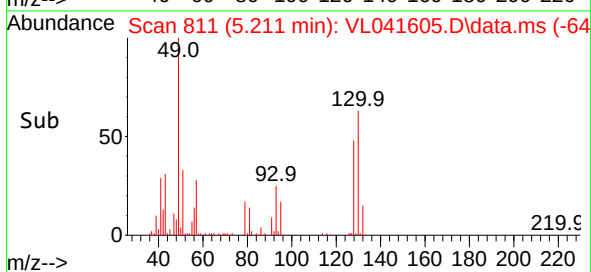
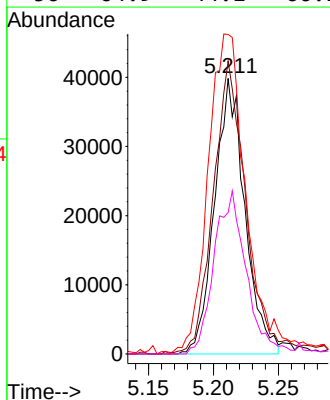
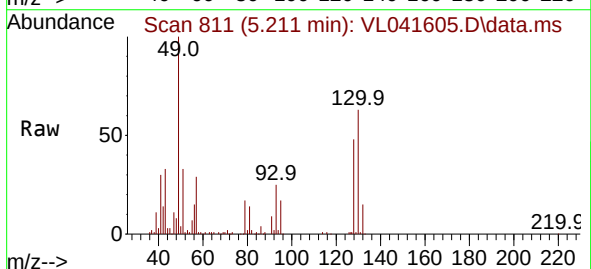
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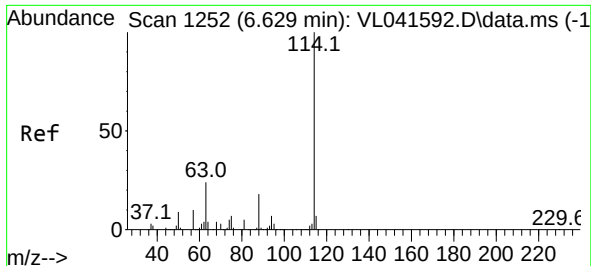
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#26
Hexane
Concen: 0.786 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.023 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Tgt Ion: 57 Resp: 64569
Ion Ratio Lower Upper
57 100
41 118.5 75.7 113.5#
43 148.6 198.5 297.7#
56 64.9 44.1 66.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 114

Delta R.T. 0.023 min

Lab File: VL041605.D

Acq: 18 Sep 2024 13:42

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 2449749

Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.2	30.2
88	17.8	14.2	21.4

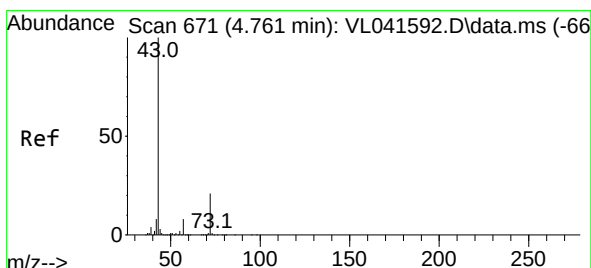
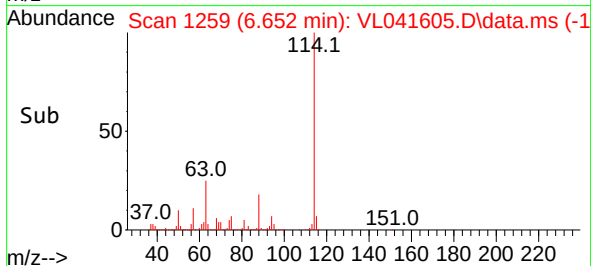
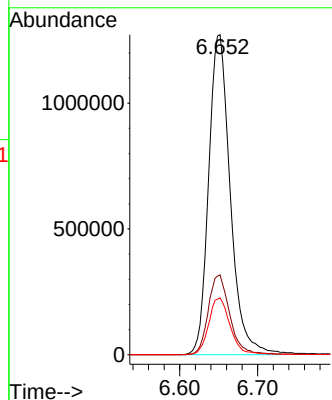
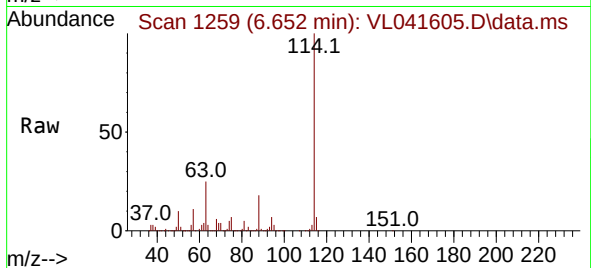
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#34

2-Butanone

Concen: 0.565 ppbv

RT: 4.790 min Scan# 680

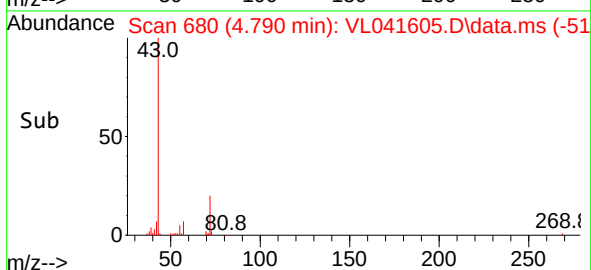
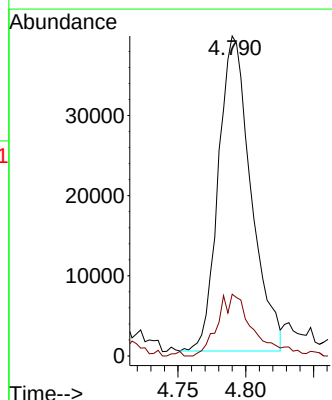
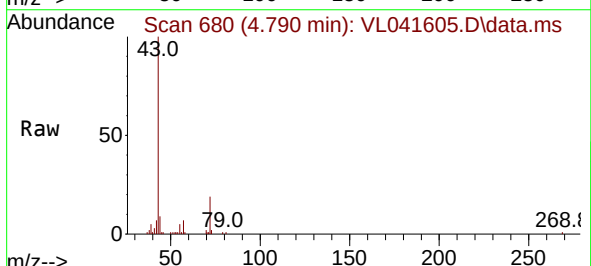
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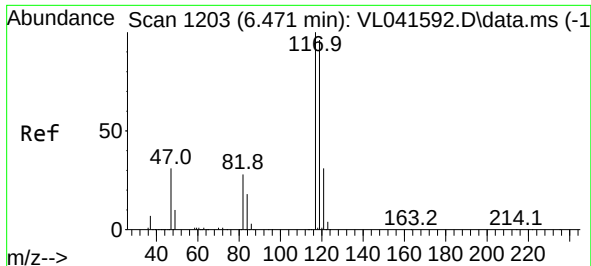
Lab File: VL041605.D

Acq: 18 Sep 2024 13:42

Tgt Ion: 43 Resp: 65953

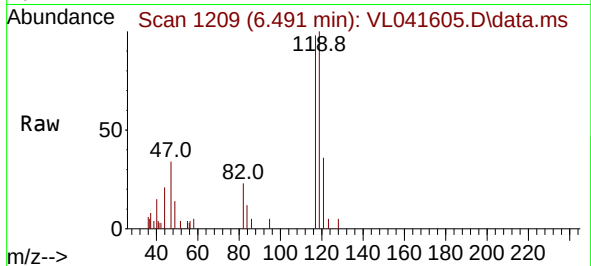
Ion	Ratio	Lower	Upper
43	100		
72	22.1	16.8	25.2





#35
Carbon Tetrachloride
Concen: 0.080 ppbv m
RT: 6.491 min Scan# 1170
Delta R.T. 0.020 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Instrument :
MSVOA_L
ClientSampleId :
IA1



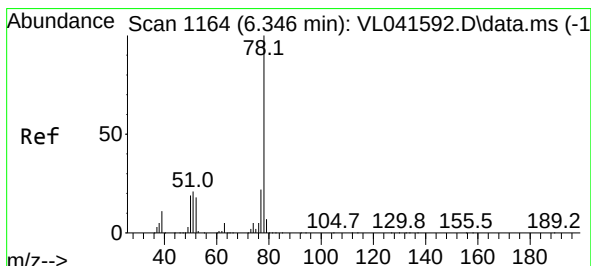
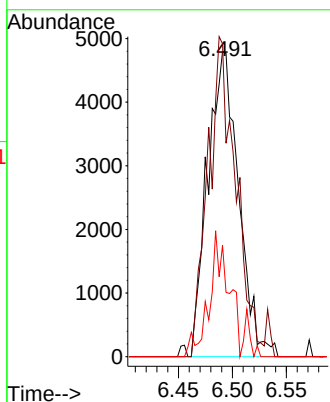
Tgt Ion: 117 Resp: 9648
Ion Ratio Lower Upper
117 100
119 102.5 76.8 115.2
121 36.5 25.0 37.6

Manual Integrations
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Reviewed By : Semsettin
Yesilyurt

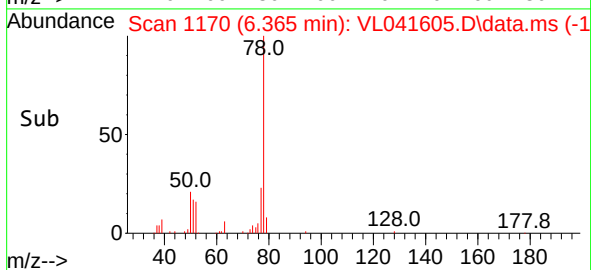
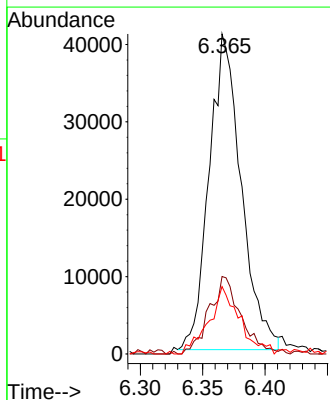
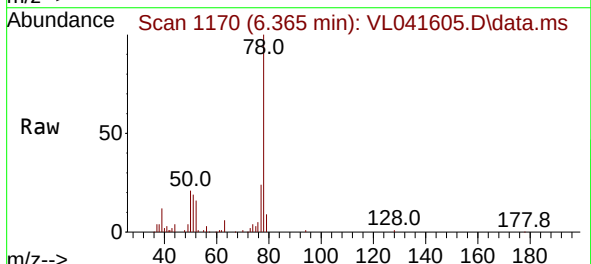
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Supervised By : Mahesh
Dadoda

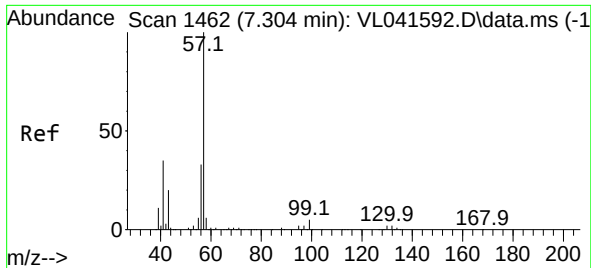
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#36
Benzene
Concen: 0.428 ppbv
RT: 6.365 min Scan# 1170
Delta R.T. 0.020 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

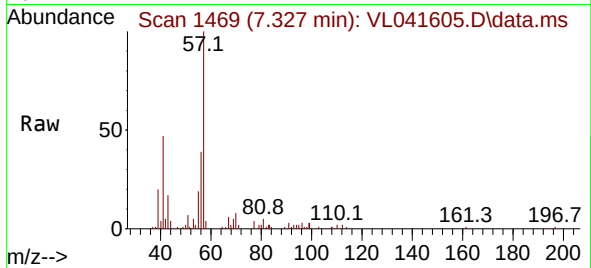
Tgt Ion: 78 Resp: 72852
Ion Ratio Lower Upper
78 100
77 24.5 17.8 26.6
50 21.3 15.4 23.0





#44
2,2,4-Trimethylpentane
Concen: 0.197 ppbv
RT: 7.327 min Scan# 1469
Delta R.T. 0.023 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Instrument : MSVOA_L
ClientSampleId : IA1



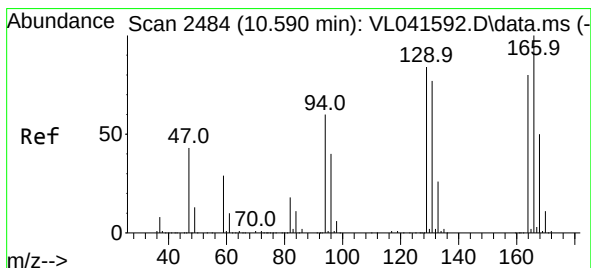
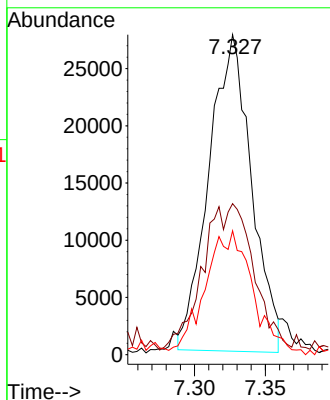
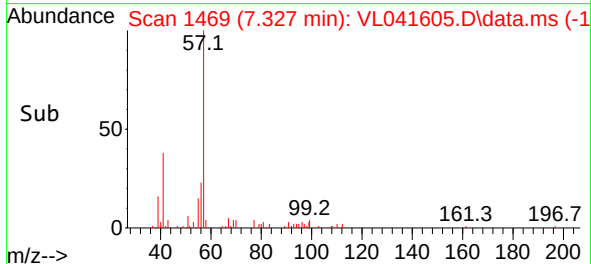
Tgt Ion: 57 Resp: 57890
Ion Ratio Lower Upper
57 100
41 61.7 27.0 40.6
56 43.9 25.5 38.3

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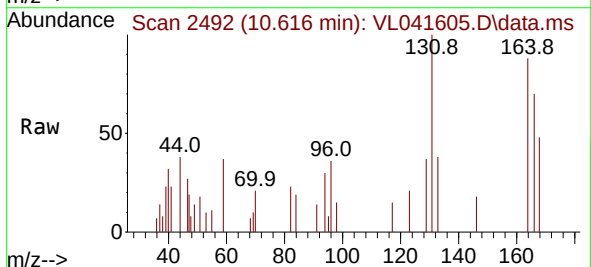
Reviewed By :Semsettin
Yesilyurt

09/19/2024
Supervised By :Mahesh
Dadoda

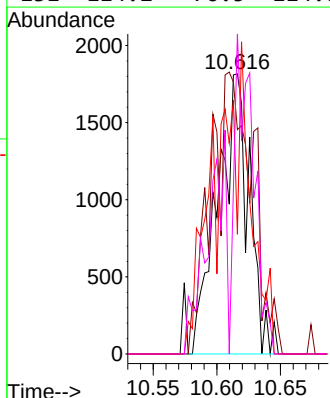
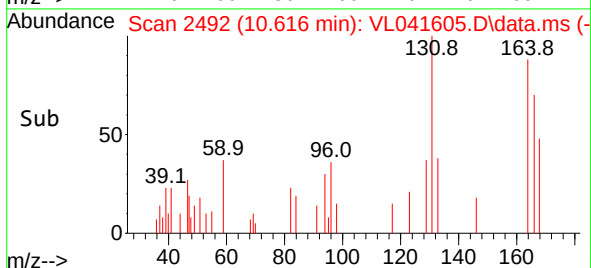
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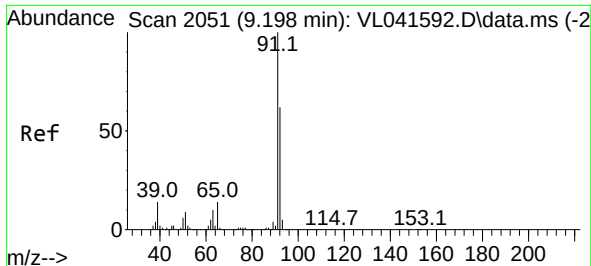


#52
Tetrachloroethene
Concen: 0.053 ppbv m
RT: 10.616 min Scan# 2492
Delta R.T. 0.026 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42



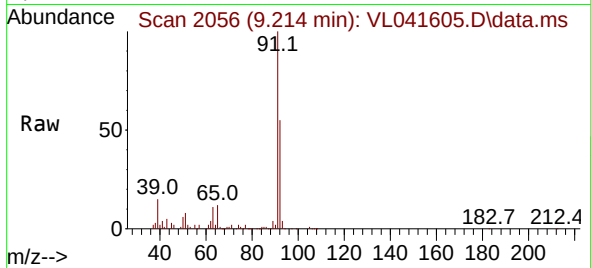
Tgt Ion:164 Resp: 3237
Ion Ratio Lower Upper
164 100
166 80.1 99.4 149.2#
129 42.7 83.5 125.3#
131 114.2 76.5 114.7





#53
Toluene
Concen: 2.020 ppbv
RT: 9.214 min Scan# 2051
Delta R.T. 0.016 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Instrument :
MSVOA_L
ClientSampleId :
IA1



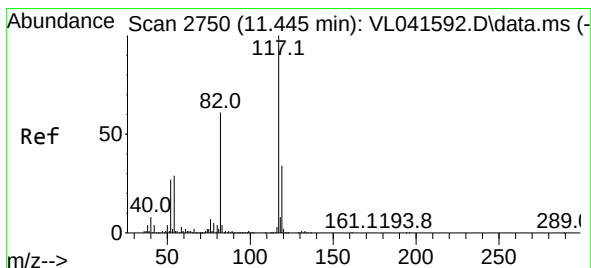
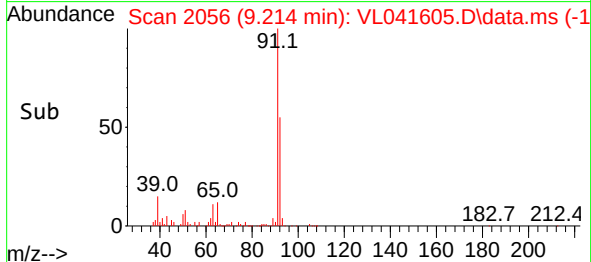
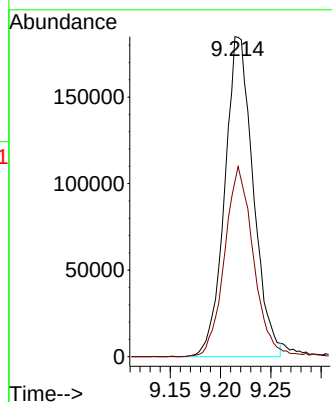
Tgt Ion: 91 Resp: 364858
Ion Ratio Lower Upper
91 100
92 60.9 48.9 73.3

Manual Integrations
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Reviewed By :Semsettin
Yesilyurt

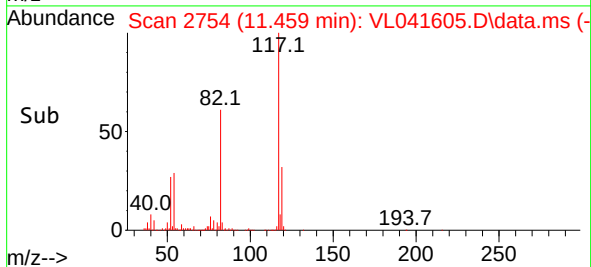
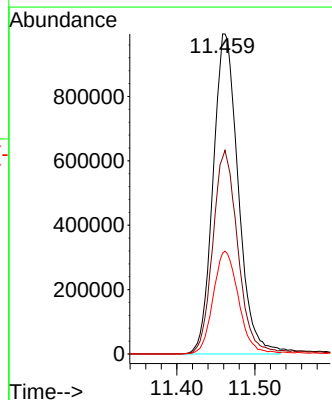
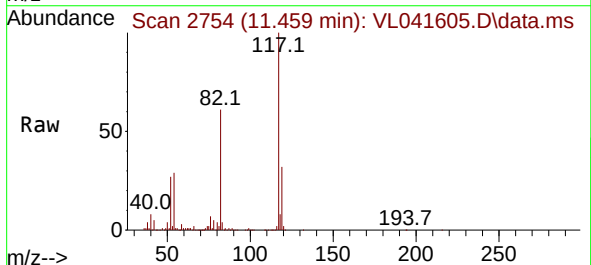
09/19/2024
Supervised By :Mahesh
Dadoda

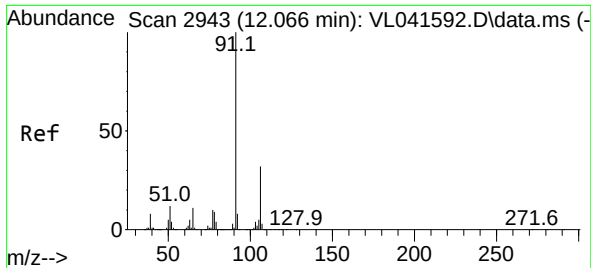
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.459 min Scan# 2754
Delta R.T. 0.013 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

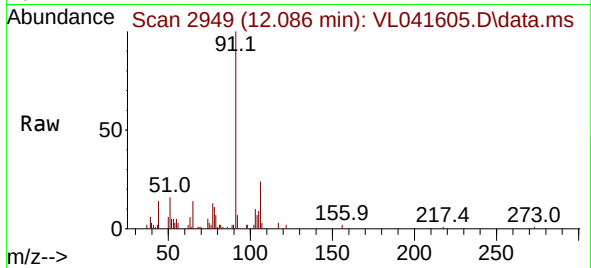
Tgt Ion:117 Resp: 2230436
Ion Ratio Lower Upper
117 100
82 65.0 49.4 74.2
119 33.3 24.4 36.6





#58
Ethyl Benzene
Concen: 0.131 ppbv m
RT: 12.086 min Scan# 2949
Delta R.T. 0.020 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Instrument :
MSVOA_L
ClientSampleId :
IA1



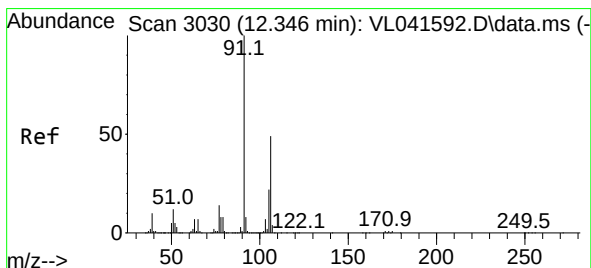
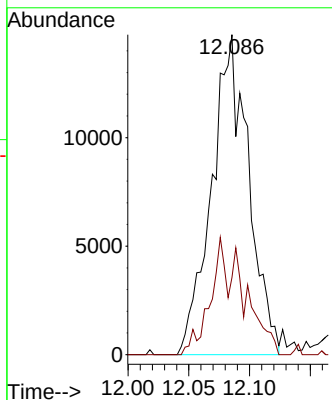
Tgt Ion: 91 Resp: 31350
Ion Ratio Lower Upper
91 100
106 24.1 25.8 38.6

Manual Integrations
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Reviewed By :Semsettin
Yesilyurt

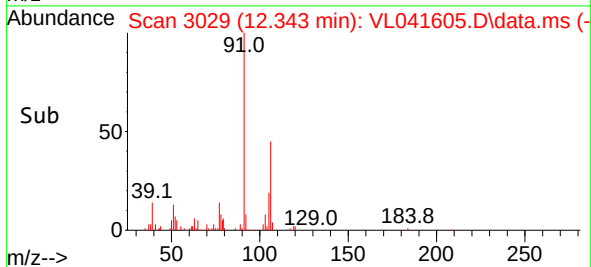
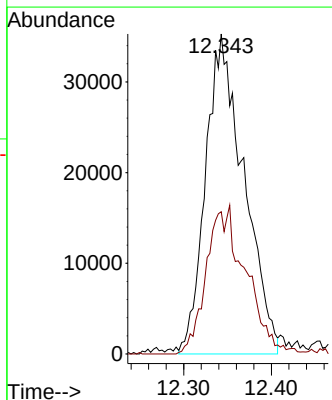
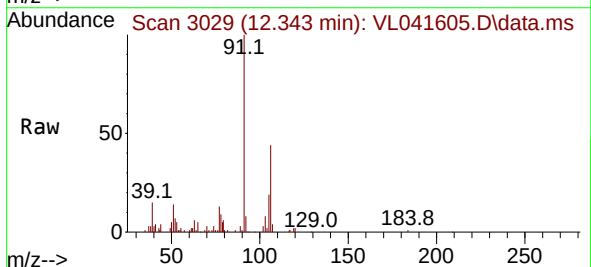
09/19/2024
Supervised By :Mahesh
Dadoda

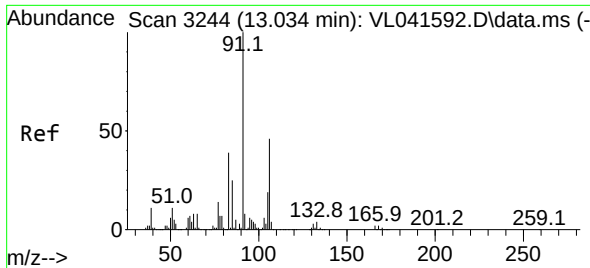
09/19/2024



#59
m/p-Xylene
Concen: 0.504 ppbv m
RT: 12.343 min Scan# 3029
Delta R.T. -0.003 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

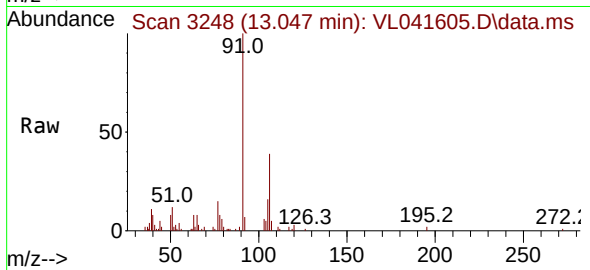
Tgt Ion: 91 Resp: 107063
Ion Ratio Lower Upper
91 100
106 0.0 36.8 55.2#





#60
o-Xylene
Concen: 0.242 ppbv m
RT: 13.047 min Scan# 3199
Delta R.T. 0.013 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Instrument :
MSVOA_L
ClientSampleId :
IA1



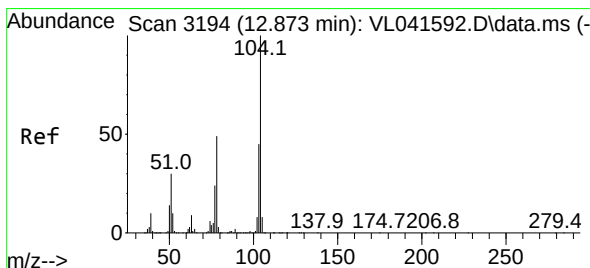
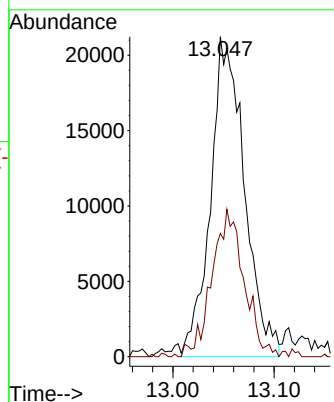
Tgt Ion: 91 Resp: 4934
Ion Ratio Lower Upper
91 100
106 0.0 23.1 69.3

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Reviewed By :Semsettin
Yesilyurt

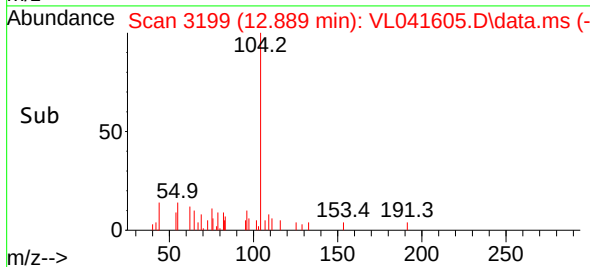
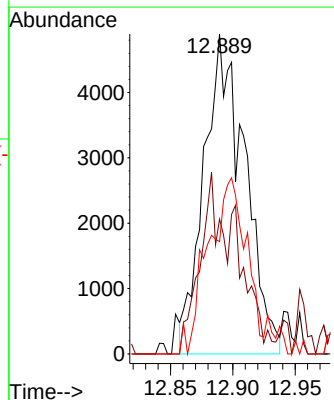
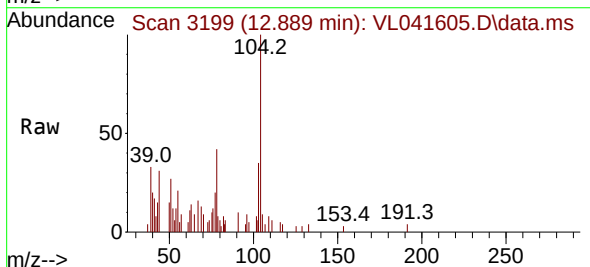
09/19/2024
Supervised By :Mahesh
Dadoda

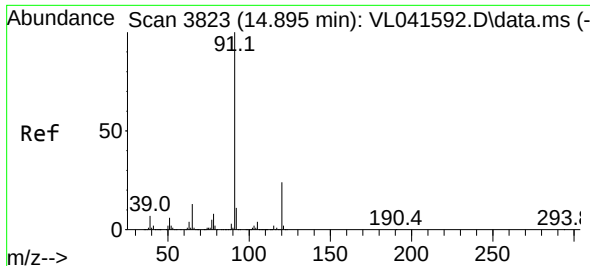
09/19/2024



#61
Styrene
Concen: 0.131 ppbv m
RT: 12.889 min Scan# 3199
Delta R.T. 0.016 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

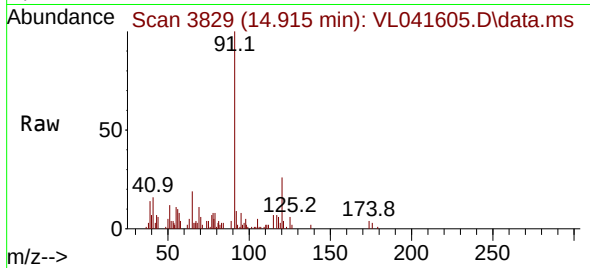
Tgt Ion:104 Resp: 11173
Ion Ratio Lower Upper
104 100
78 52.6 39.8 59.6
103 0.0 37.4 56.0





#64
n-propylbenzene
Concen: 0.125 ppbv m
RT: 14.915 min Scan# 3829
Delta R.T. 0.020 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Instrument :
MSVOA_L
ClientSampleId :
IA1



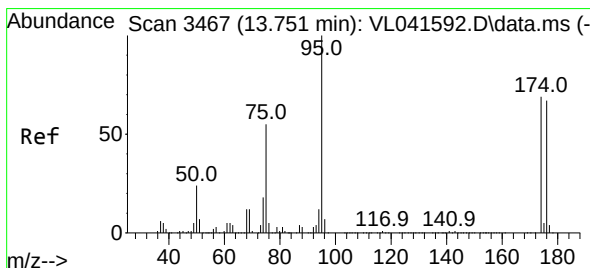
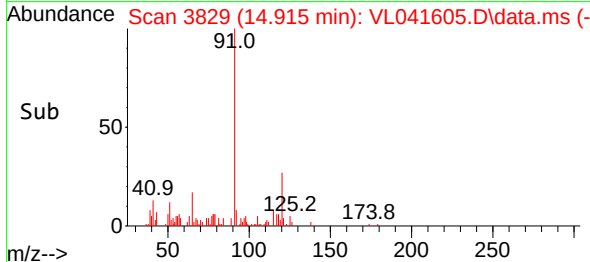
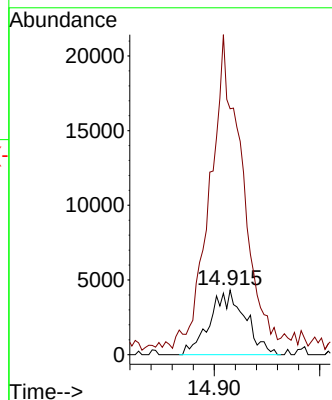
Tgt Ion: 120 Resp: 1000
Ion Ratio Lower Upper
120 100
91 0.0 366.4 549.6

Manual Integrations
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Reviewed By :Semsettin
Yesilyurt

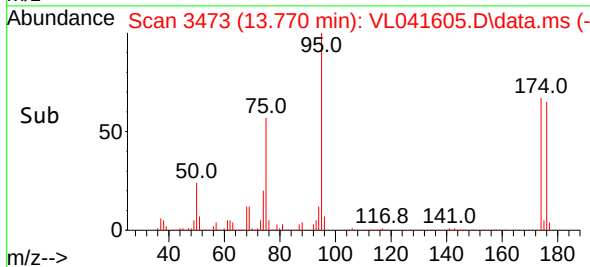
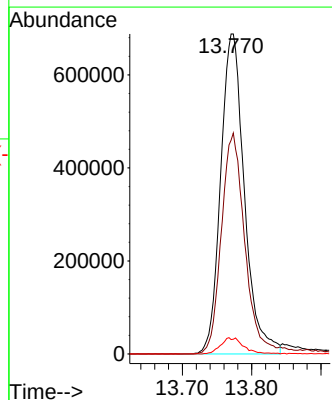
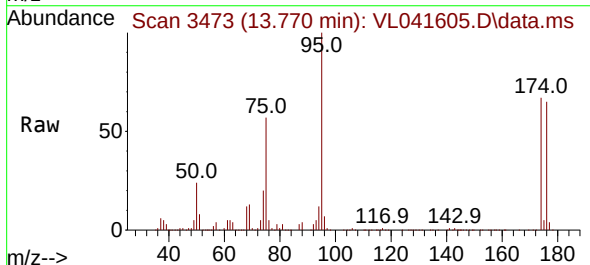
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Supervised By :Mahesh
Dadoda

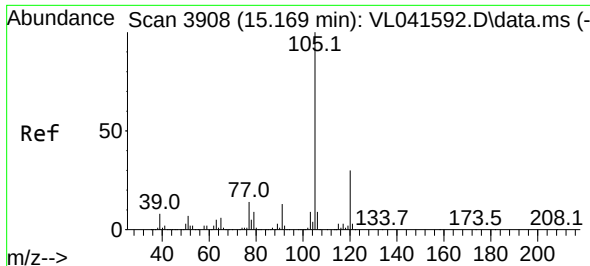
09/19/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 9.973 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. 0.020 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

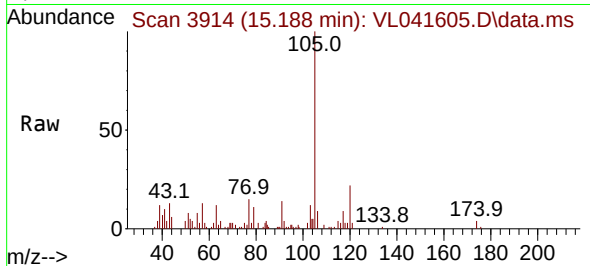
Tgt Ion: 95 Resp: 1637558
Ion Ratio Lower Upper
95 100
174 69.0 55.8 83.8
175 5.1 4.1 6.1





#72
4-Ethyltoluene
Concen: 0.201 ppbv
RT: 15.188 min Scan# 3914
Delta R.T. 0.020 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42

Instrument :
MSVOA_L
ClientSampleId :
IA1



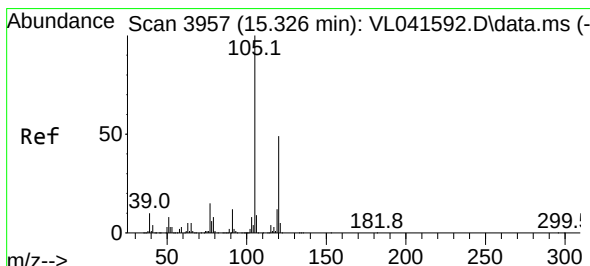
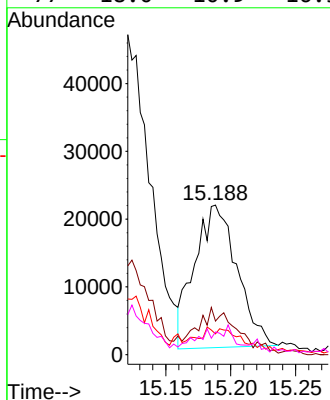
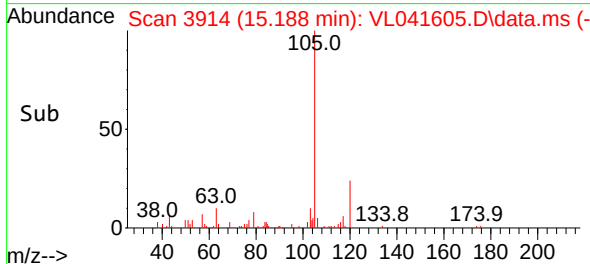
Tgt Ion:105 Resp: 4791
Ion Ratio Lower Upper
105 100
120 32.9 24.1 36.1
91 16.2 10.2 15.2
77 18.0 10.9 16.3

Manual Integrations
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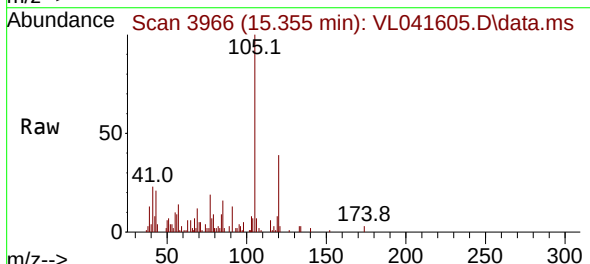
Reviewed By :Semsettin
Yesilyurt

09/19/2024
Supervised By :Mahesh
Dadoda

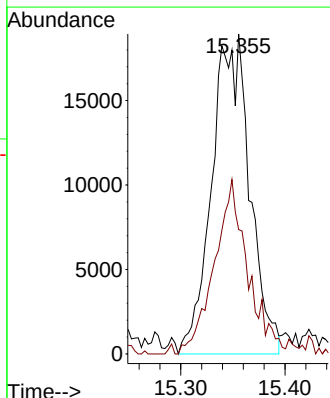
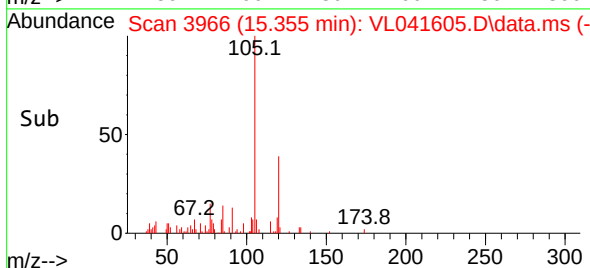
09/19/2024

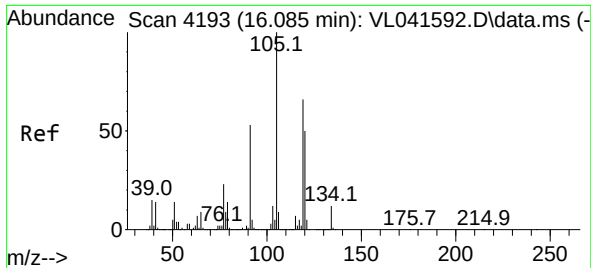


#73
1,3,5-Trimethylbenzene
Concen: 0.227 ppbv m
RT: 15.355 min Scan# 3966
Delta R.T. 0.029 min
Lab File: VL041605.D
Acq: 18 Sep 2024 13:42



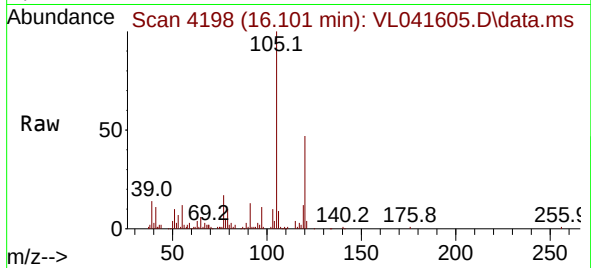
Tgt Ion:105 Resp: 47740
Ion Ratio Lower Upper
105 100
120 38.9 39.4 59.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.754 ppbv
 RT: 16.101 min Scan# 4198
 Delta R.T. 0.016 min
 Lab File: VL041605.D
 Acq: 18 Sep 2024 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	105	Resp:	18561
Ion Ratio	Lower	Upper	
105	100		
120	46.6	39.9	59.9
91	12.4	42.6	63.8
77	16.2	18.2	27.2

Manual Integrations
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Reviewed By :Semsettin
 Yesilyurt

09/19/2024
 Supervised By :Mahesh
 Dadoda

09/19/2024

