

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052424\
 Data File : VL041288.D
 Acq On : 24 May 2024 13:02
 Operator : SY/MD
 Sample : P2599-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/28/2024
 Supervised By :Mahesh Dadoda 05/28/2024

Quant Time: May 24 23:20:48 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

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

QLast Update : Fri May 24 23:11:50 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	1058763	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2693075	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2488423	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	2015042	10.726	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.755	85	20014	0.140	ppbv	93
4) Chloromethane	2.838	50	5017m	0.080	ppbv	
9) Propene	2.719	41	282402	4.488	ppbv	97
10) Heptane	7.587	43	116633	0.765	ppbv	95
11) Trichlorofluoromethane	3.584	101	6429274	44.172	ppbv	93
13) Ethanol	3.259	45	129900	9.208	ppbv	96
15) Acetone	3.484	43	4993033	39.959	ppbv	94
17) tert-Butyl alcohol	3.906	59	58620	0.435	ppbv #	93
20) Methylene Chloride	3.954	84	386300	8.890	ppbv	95
26) Hexane	5.227	57	969657	8.712	ppbv #	41
32) 1,1,1-Trichloroethane	6.021	97	102725m	0.671	ppbv	
34) 2-Butanone	4.799	43	2445599	17.842	ppbv	100
36) Benzene	6.388	78	262531	1.162	ppbv	97
44) 2,2,4-Trimethylpentane	7.340	57	94487	0.242	ppbv #	90
50) 4-Methyl-2-Pentanone	8.198	43	54624	0.222	ppbv	99
51) 2-Hexanone	9.561	43	286197	1.569	ppbv #	91
52) Tetrachloroethene	10.629	164	291620	3.671	ppbv	96
53) Toluene	9.230	91	522815	1.995	ppbv	100
58) Ethyl Benzene	12.095	91	140191	0.411	ppbv	99
59) m/p-Xylene	12.352	91	347171	1.211	ppbv	95
60) o-Xylene	13.066	91	178245m	0.663	ppbv	
62) Isopropylbenzene	14.034	105	53413m	0.133	ppbv	
72) 4-Ethyltoluene	15.201	105	56728m	0.186	ppbv	
73) 1,3,5-Trimethylbenzene	15.359	105	73527	0.267	ppbv	96
74) 1,2,4-Trimethylbenzene	16.114	105	238296	0.792	ppbv #	67

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

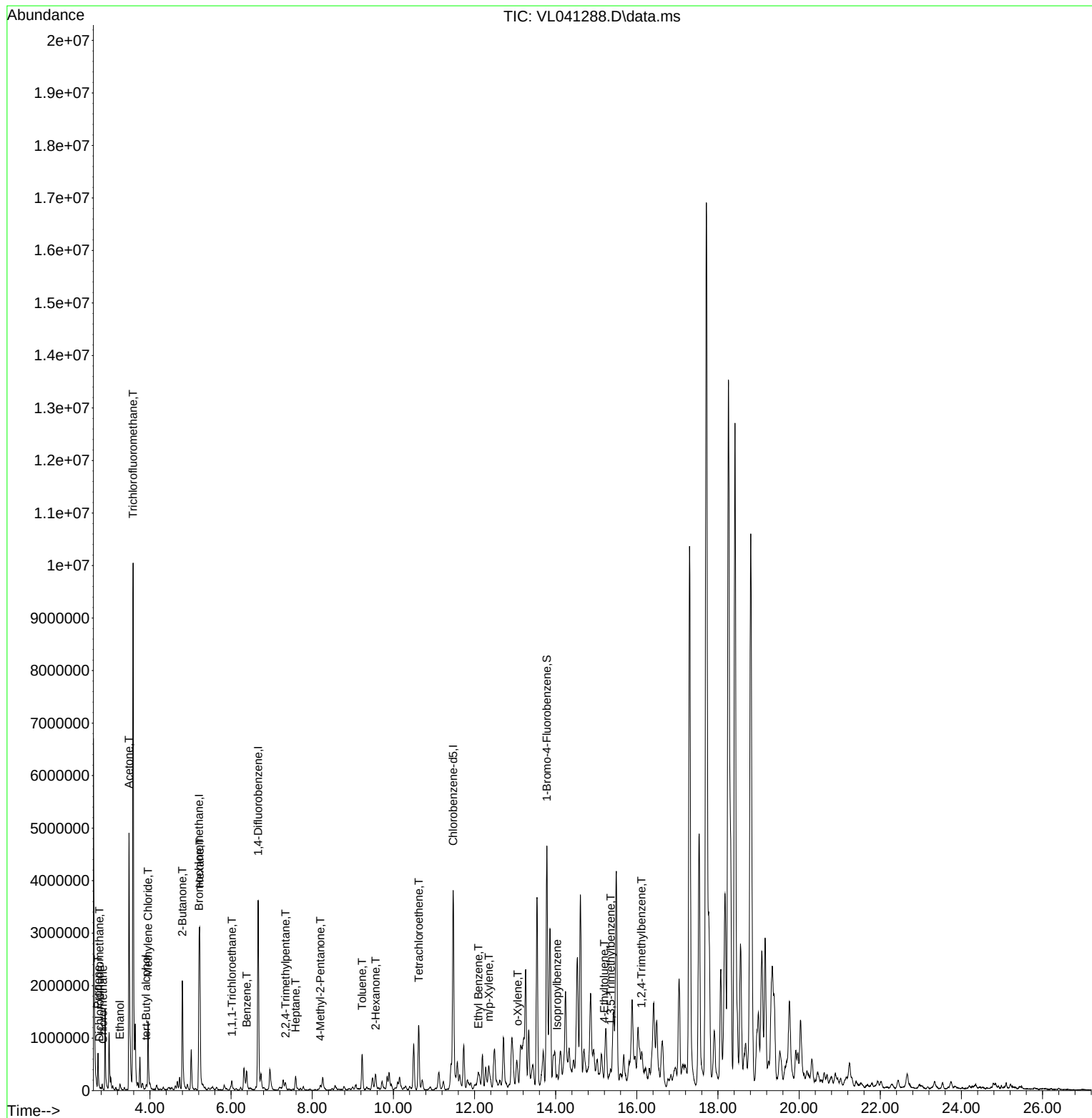
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052424\
Data File : VL041288.D
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Misc : 400mL/MSVOA_L
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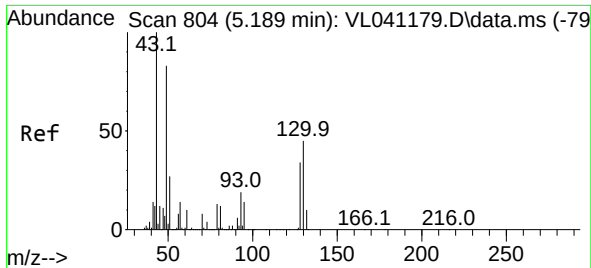
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: May 24 23:20:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 24 23:11:50 2024
Response via : Initial Calibration

Manual Integrations
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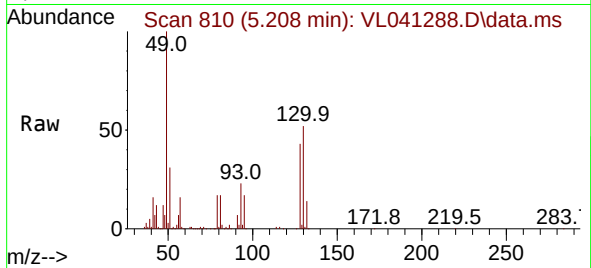
Reviewed By : Semsettin Yesilyurt 05/28/2024
Supervised By : Mahesh Dadoda 05/28/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

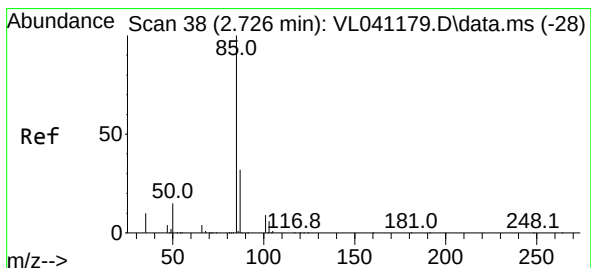
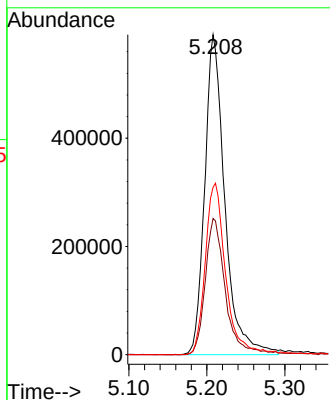
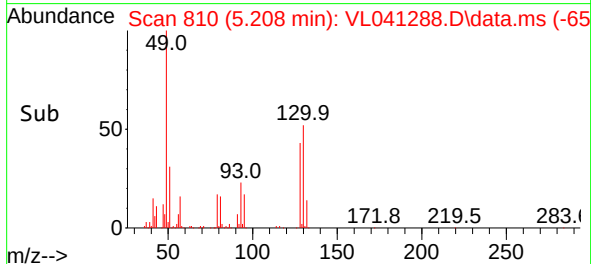
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 105876
Ion Ratio Lower Upper
49 100
128 43.7 21.5 64.5
130 55.7 27.2 81.6

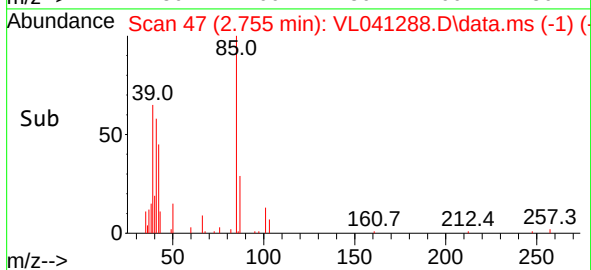
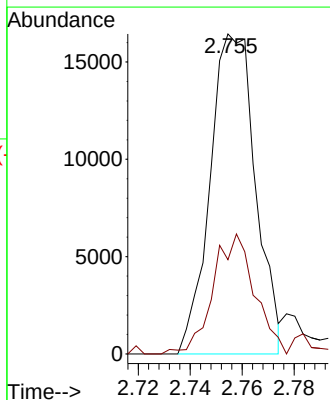
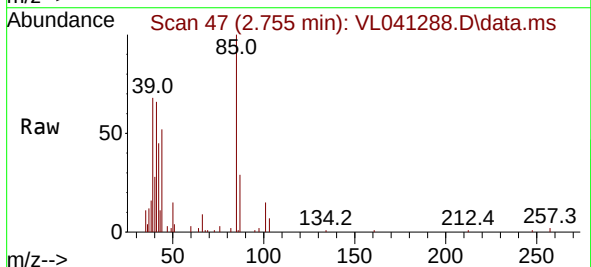
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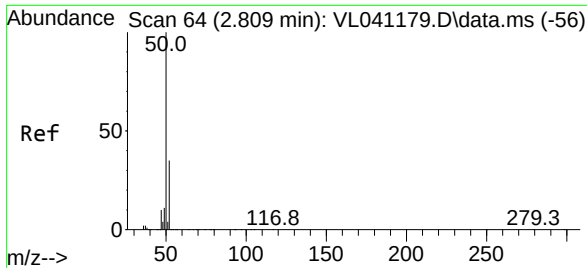
Reviewed By :Semsettin Yesilyurt 05/28/2024
Supervised By :Mahesh Dadoda 05/28/2024



#2
Dichlorodifluoromethane
Concen: 0.140 ppbv
RT: 2.755 min Scan# 47
Delta R.T. 0.000 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

Tgt Ion: 85 Resp: 20014
Ion Ratio Lower Upper
85 100
87 28.3 25.7 38.5





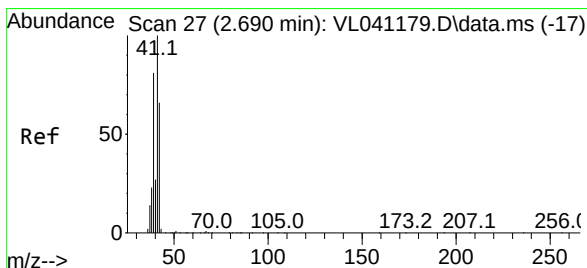
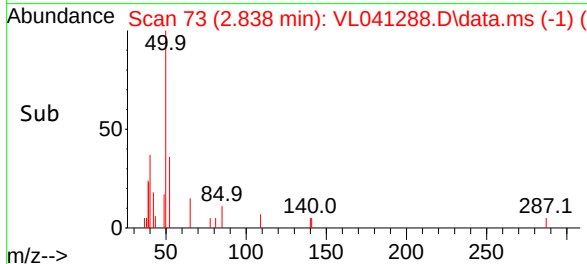
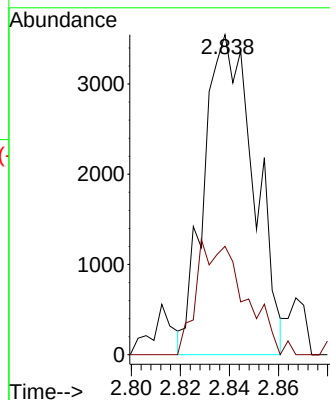
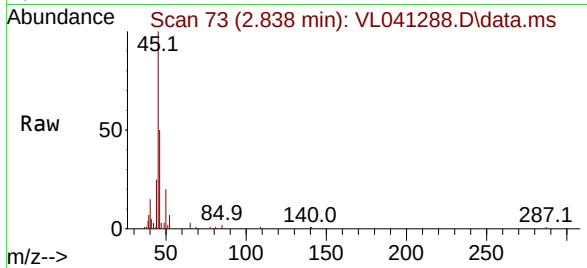
#4
Chloromethane
Concen: 0.080 ppbv m
RT: 2.838 min Scan# 71
Delta R.T. 0.000 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 50 Resp: 501
Ion Ratio Lower Upper
50 100
52 33.9 28.3 42.5

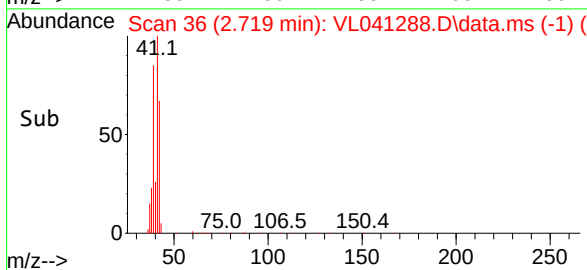
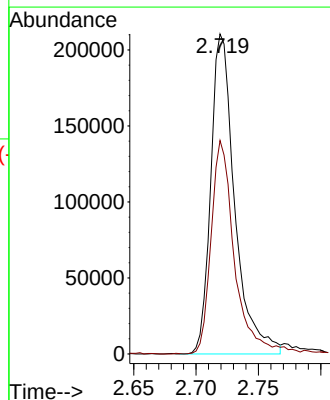
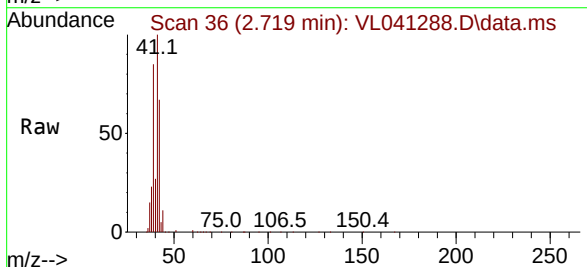
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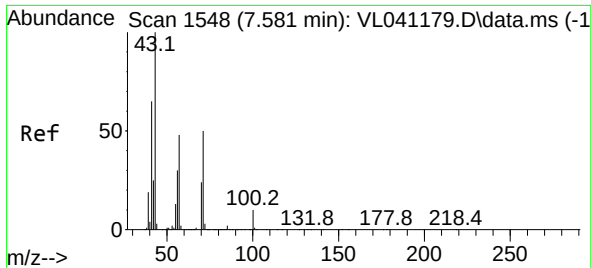
Reviewed By :Semsettin Yesilyurt 05/28/2024
Supervised By :Mahesh Dadoda 05/28/2024



#9
Propene
Concen: 4.488 ppbv
RT: 2.719 min Scan# 36
Delta R.T. 0.000 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

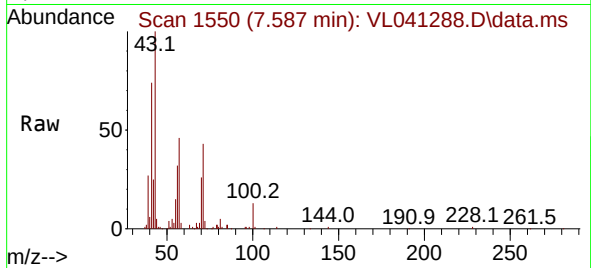
Tgt Ion: 41 Resp: 282402
Ion Ratio Lower Upper
41 100
42 66.6 55.3 82.9





#10
Heptane
Concen: 0.765 ppbv
RT: 7.587 min Scan# 11663
Delta R.T. -0.003 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

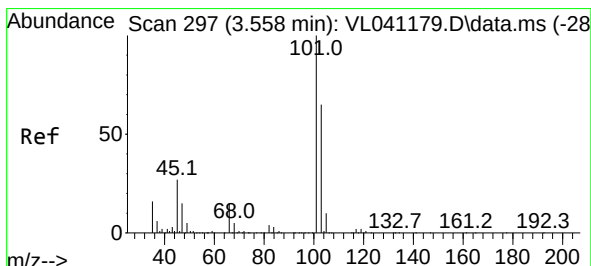
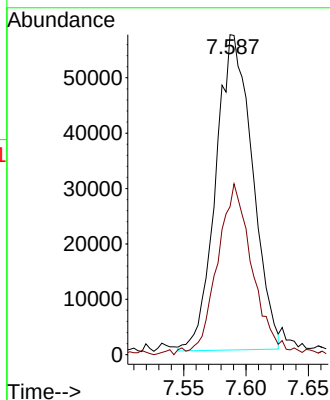
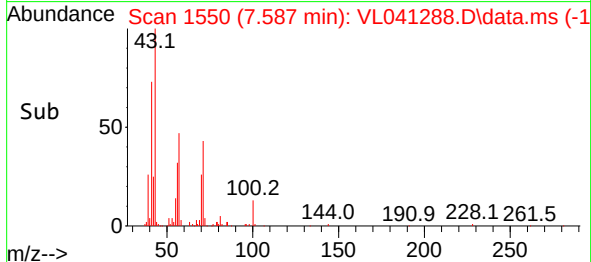
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 11663
Ion Ratio Lower Upper
43 100
57 51.9 38.7 58.1

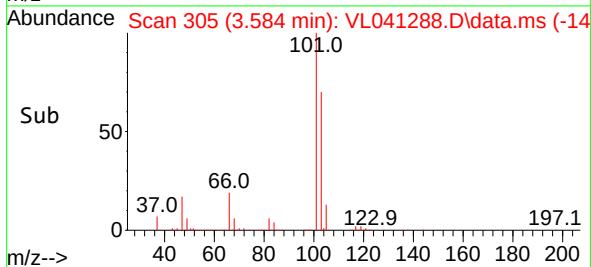
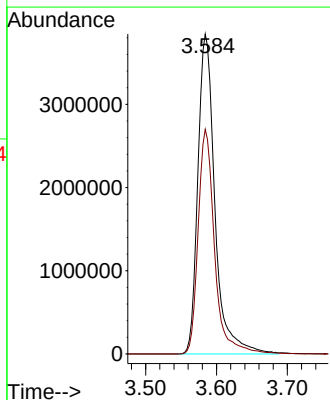
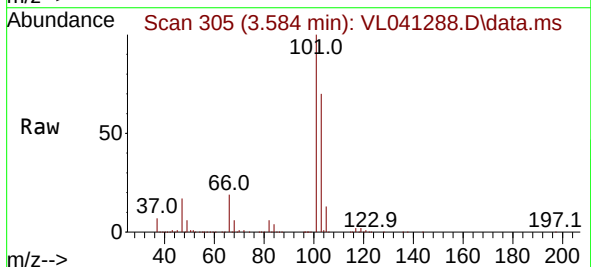
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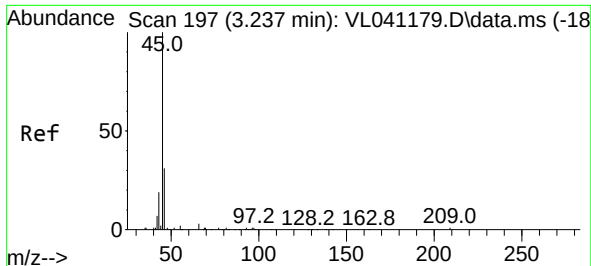
Reviewed By :Semsettin Yesilyurt 05/28/2024
Supervised By :Mahesh Dadoda 05/28/2024



#11
Trichlorofluoromethane
Concen: 44.172 ppbv
RT: 3.584 min Scan# 305
Delta R.T. 0.000 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

Tgt Ion:101 Resp: 6429274
Ion Ratio Lower Upper
101 100
103 70.2 51.6 77.4





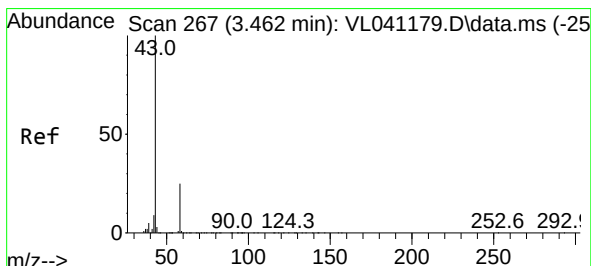
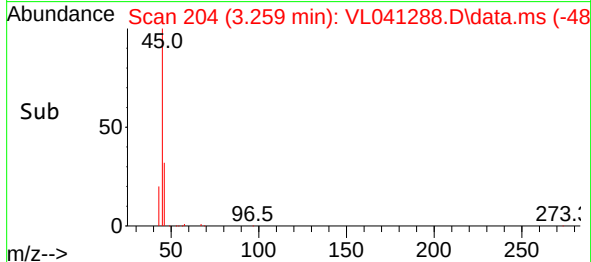
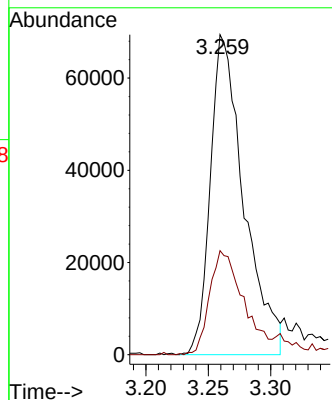
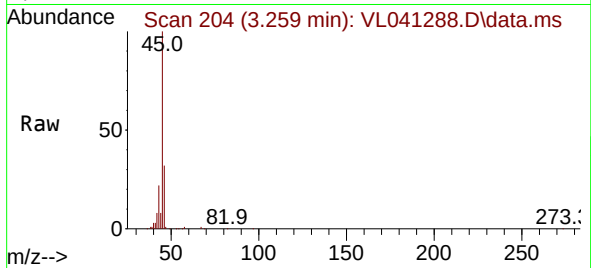
#13
Ethanol
Concen: 9.208 ppbv
RT: 3.259 min Scan# 204
Delta R.T. 0.000 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 129900
Ion Ratio Lower Upper
45 100
46 39.0 14.8 59.0

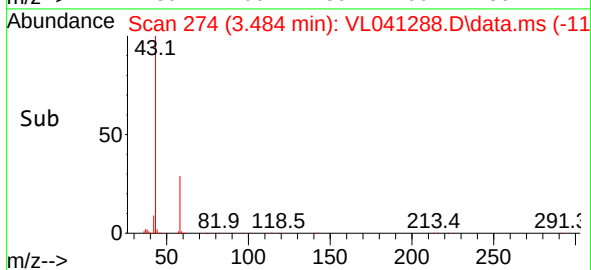
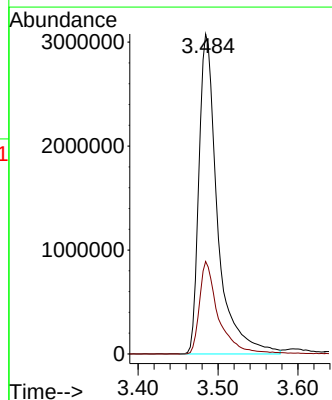
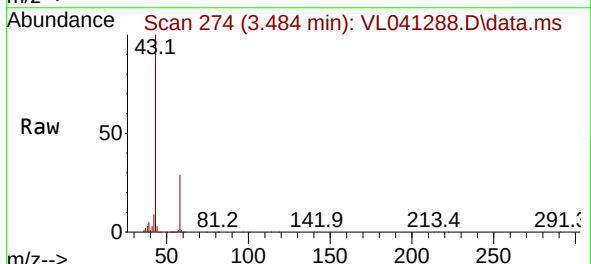
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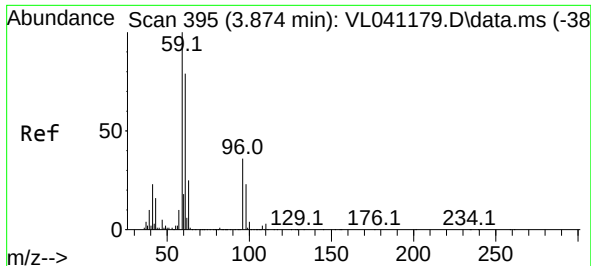
Reviewed By :Semsettin Yesilyurt 05/28/2024
Supervised By :Mahesh Dadoda 05/28/2024



#15
Acetone
Concen: 39.959 ppbv
RT: 3.484 min Scan# 274
Delta R.T. -0.003 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

Tgt Ion: 43 Resp: 4993033
Ion Ratio Lower Upper
43 100
58 30.0 21.4 32.0





#17

tert-Butyl alcohol

Concen: 0.435 ppbv

RT: 3.906 min Scan# 405

Delta R.T. 0.010 min

Lab File: VL041288.D

Acq: 24 May 2024 13:02

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 59 Resp: 58620

Ion Ratio Lower Upper

59 100

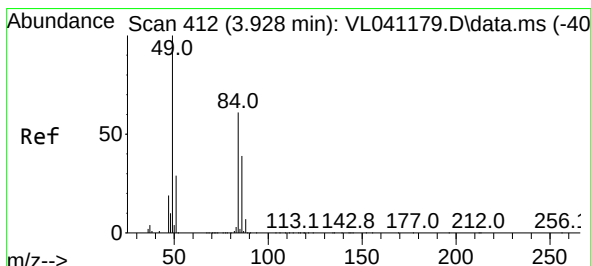
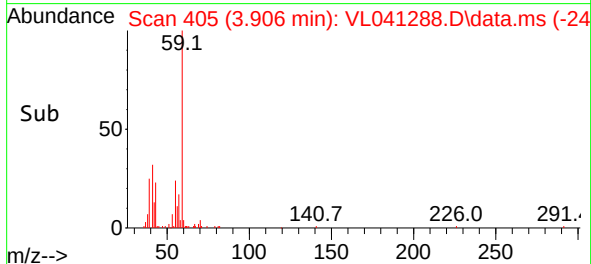
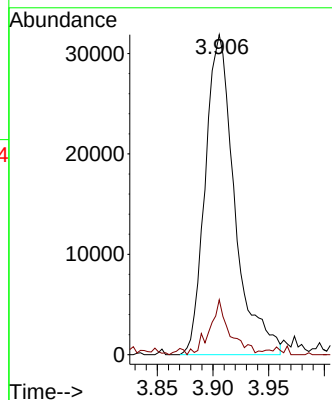
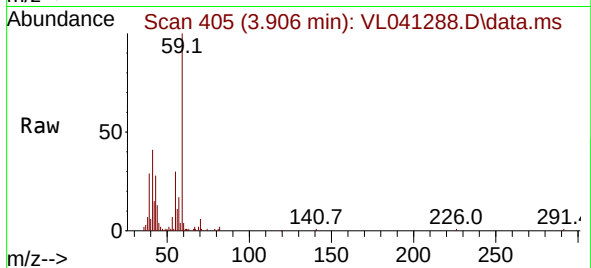
57 13.0 8.4 12.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/28/2024

Supervised By :Mahesh Dadoda 05/28/2024



#20

Methylene Chloride

Concen: 8.890 ppbv

RT: 3.954 min Scan# 420

Delta R.T. 0.003 min

Lab File: VL041288.D

Acq: 24 May 2024 13:02

Tgt Ion: 84 Resp: 386300

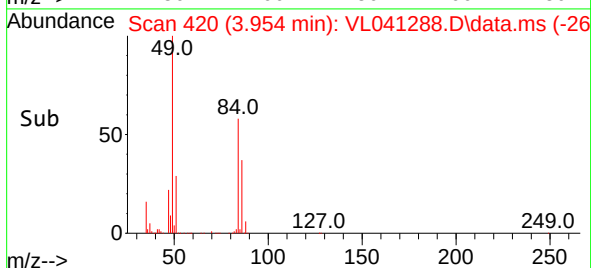
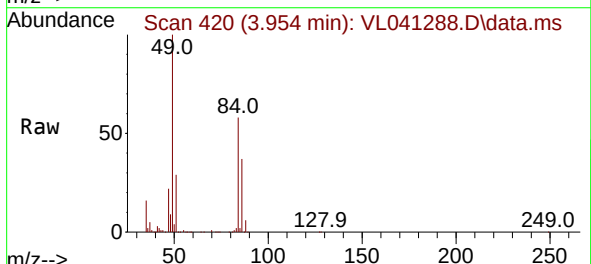
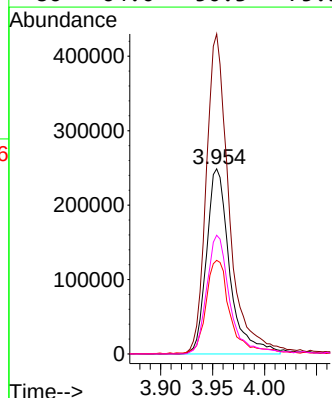
Ion Ratio Lower Upper

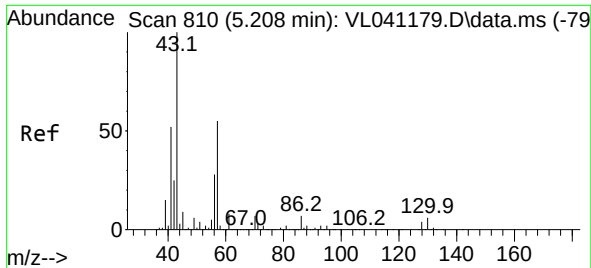
84 100

49 172.7 130.4 195.6

51 50.0 38.0 57.0

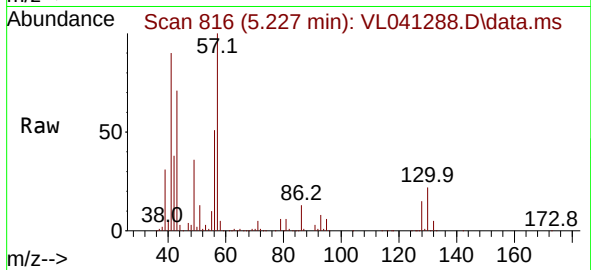
86 64.0 50.3 75.5





#26
Hexane
Concen: 8.712 ppbv
RT: 5.227 min Scan# 810
Delta R.T. 0.000 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

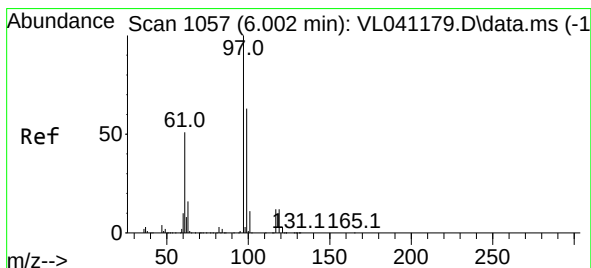
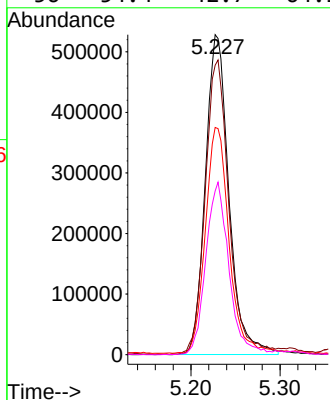
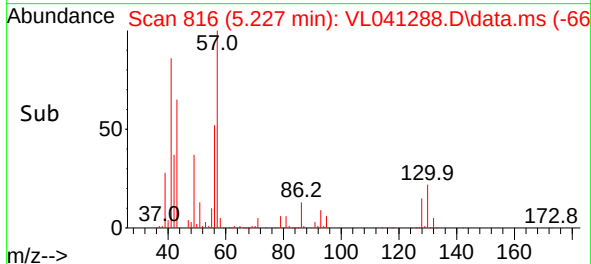
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 96965
Ion Ratio Lower Upper
57 100
41 95.7 75.8 113.8
43 73.3 187.0 280.4
56 54.4 42.7 64.1

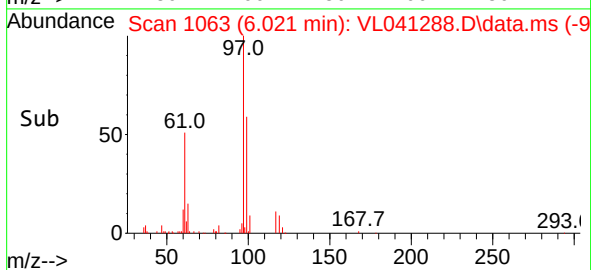
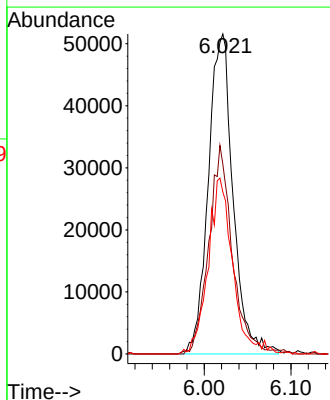
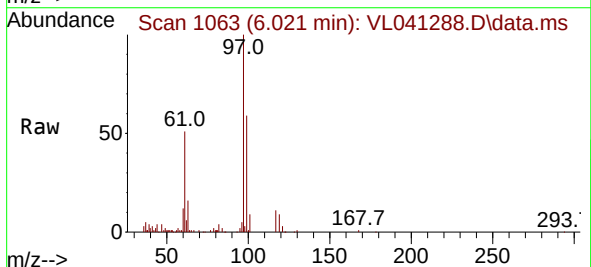
Manual Integrations
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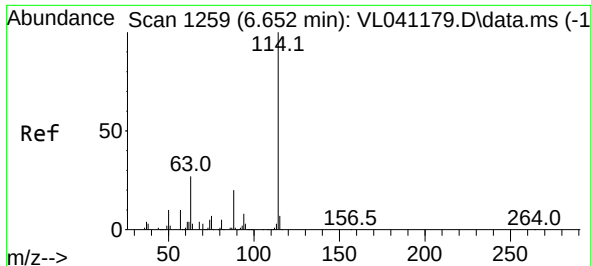
Reviewed By :Semsettin Yesilyurt 05/28/2024
Supervised By :Mahesh Dadoda 05/28/2024



#32
1,1,1-Trichloroethane
Concen: 0.671 ppbv m
RT: 6.021 min Scan# 1063
Delta R.T. 0.003 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

Tgt Ion: 97 Resp: 102725
Ion Ratio Lower Upper
97 100
99 62.3 51.7 77.5
61 55.0 41.1 61.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.668 min Scan# 114

Delta R.T. 0.000 min

Lab File: VL041288.D

Acq: 24 May 2024 13:02

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:114 Resp: 2693079

Ion Ratio Lower Upper

114 100

63 25.7 21.8 32.6

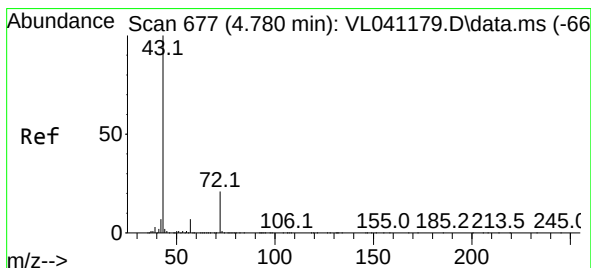
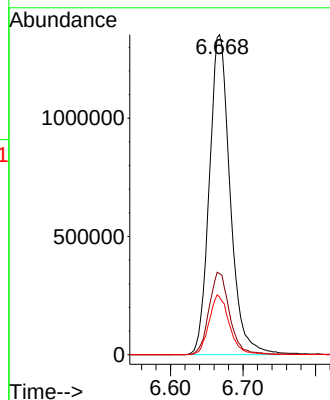
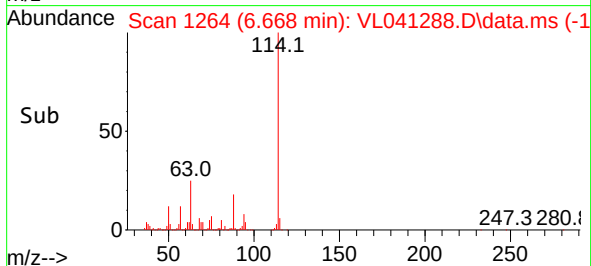
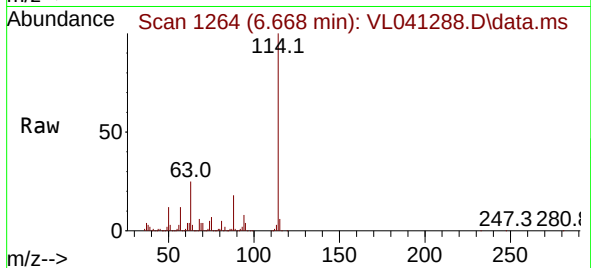
88 18.3 15.2 22.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/28/2024

Supervised By :Mahesh Dadoda 05/28/2024



#34

2-Butanone

Concen: 17.842 ppbv

RT: 4.799 min Scan# 683

Delta R.T. -0.003 min

Lab File: VL041288.D

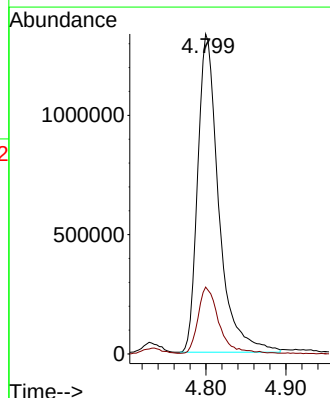
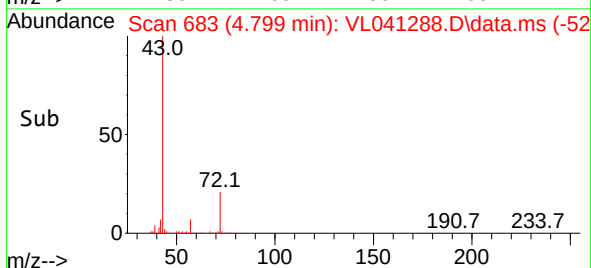
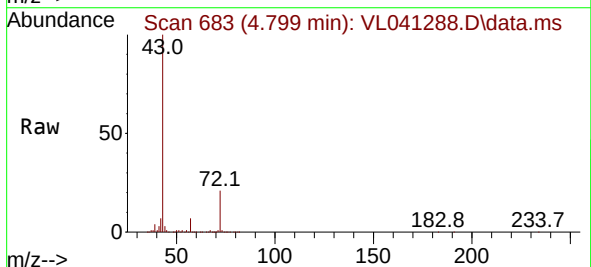
Acq: 24 May 2024 13:02

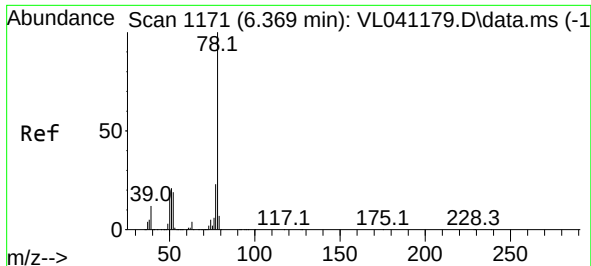
Tgt Ion: 43 Resp: 2445599

Ion Ratio Lower Upper

43 100

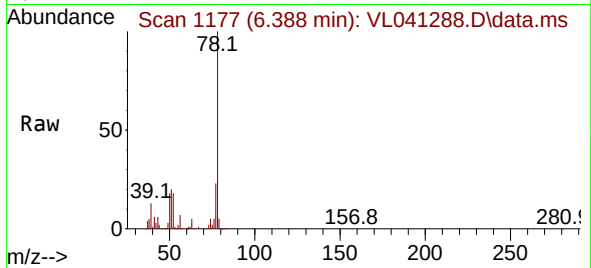
72 21.4 17.3 25.9





#36
Benzene
Concen: 1.162 ppbv
RT: 6.388 min Scan# 1171
Delta R.T. 0.003 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

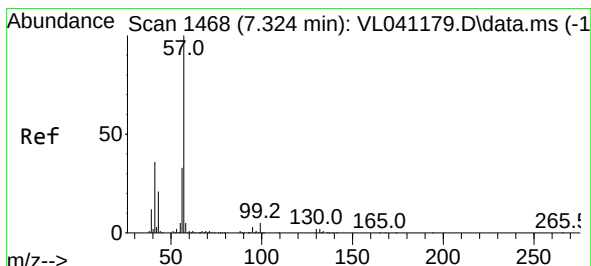
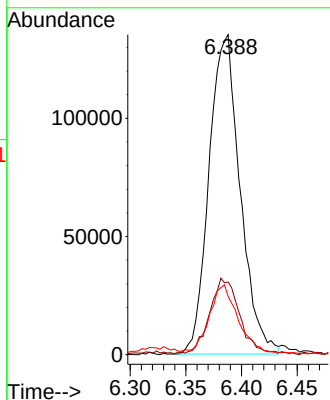
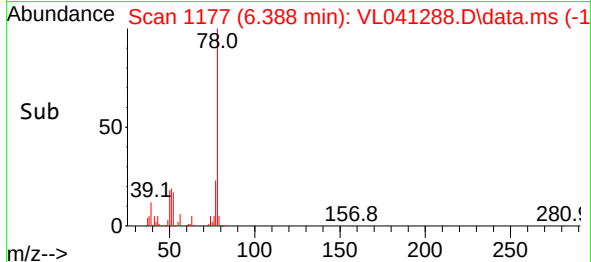
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 78 Resp: 26253
Ion Ratio Lower Upper
78 100
77 22.2 18.3 27.5
50 17.9 15.9 23.9

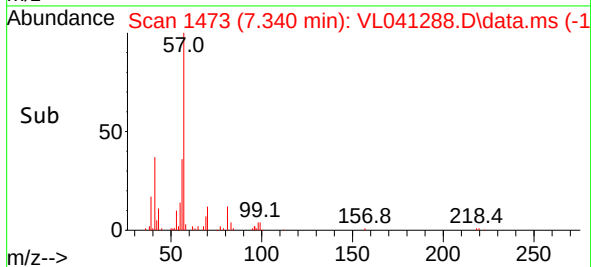
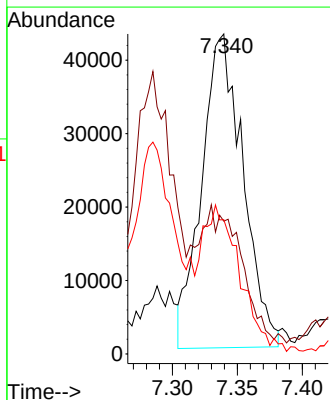
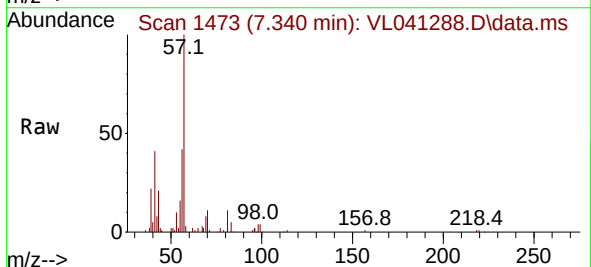
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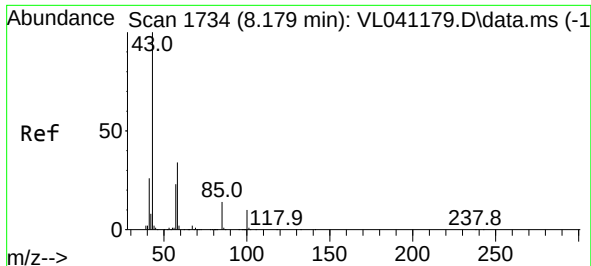
Reviewed By :Semsettin Yesilyurt 05/28/2024
Supervised By :Mahesh Dadoda 05/28/2024



#44
2,2,4-Trimethylpentane
Concen: 0.242 ppbv
RT: 7.340 min Scan# 1473
Delta R.T. 0.003 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

Tgt Ion: 57 Resp: 94487
Ion Ratio Lower Upper
57 100
41 38.6 29.5 44.3
56 41.5 25.3 37.9





#50

4-Methyl-2-Pentanone

Concen: 0.222 ppbv

RT: 8.198 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL041288.D

Acq: 24 May 2024 13:02

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 43 Resp: 54624

Ion Ratio Lower Upper

43 100

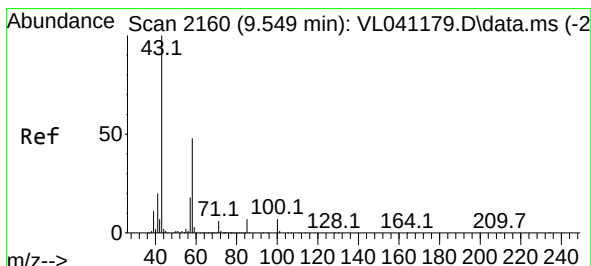
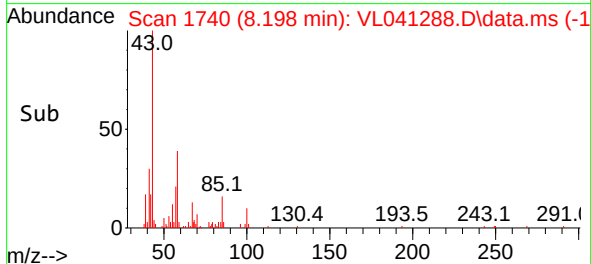
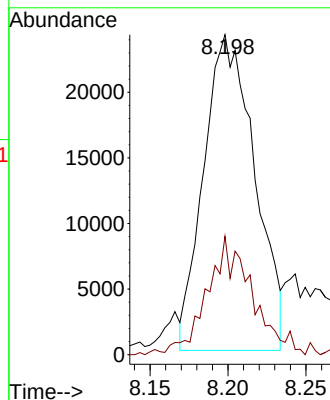
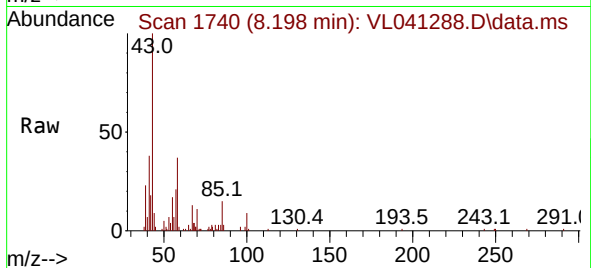
58 34.0 27.7 41.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/28/2024

Supervised By :Mahesh Dadoda 05/28/2024



#51

2-Hexanone

Concen: 1.569 ppbv

RT: 9.561 min Scan# 2164

Delta R.T. 0.003 min

Lab File: VL041288.D

Acq: 24 May 2024 13:02

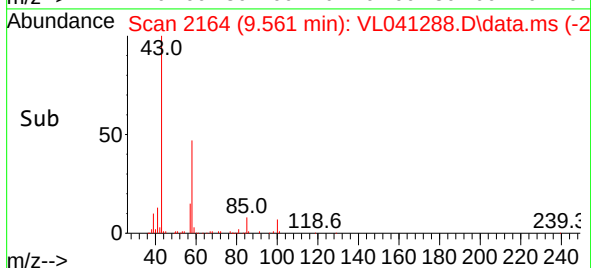
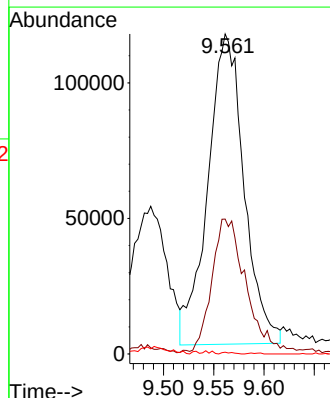
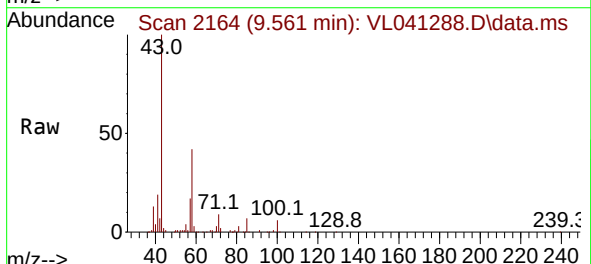
Tgt Ion: 43 Resp: 286197

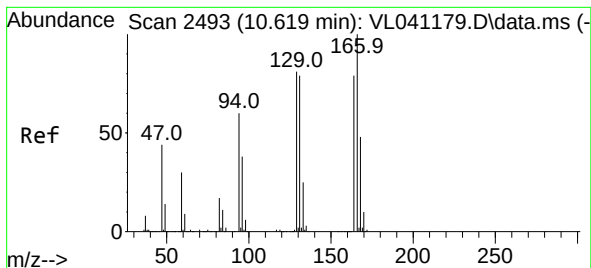
Ion Ratio Lower Upper

43 100

58 41.7 38.4 57.6

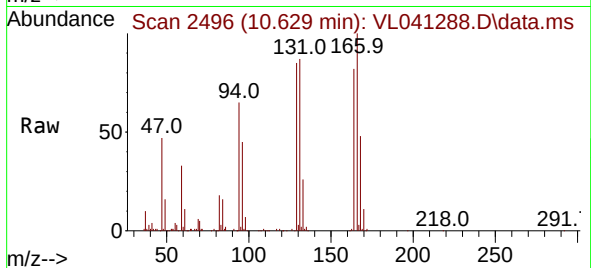
98 0.4 0.0 0.0#





#52
Tetrachloroethene
Concen: 3.671 ppbv
RT: 10.629 min Scan# 2493
Delta R.T. 0.006 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

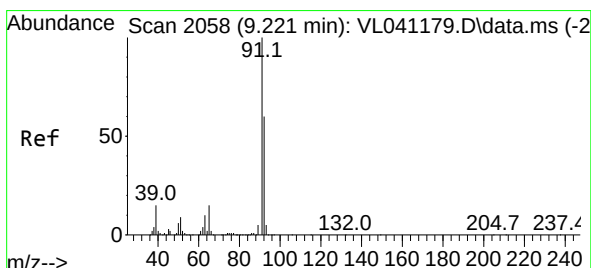
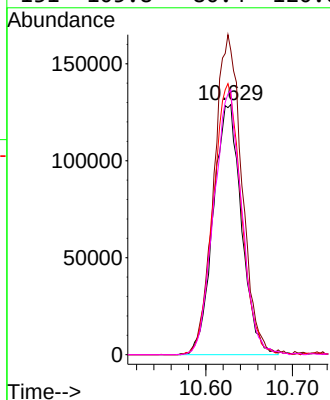
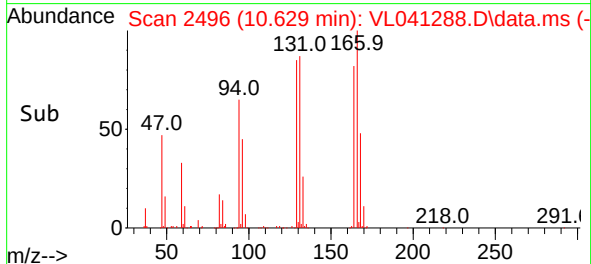
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:164 Resp: 291620
Ion Ratio Lower Upper
164 100
166 121.6 101.1 151.7
129 103.6 81.7 122.5
131 105.8 80.4 120.6

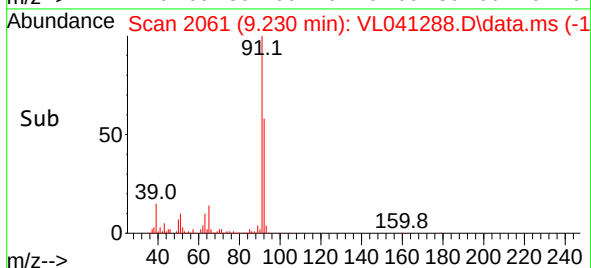
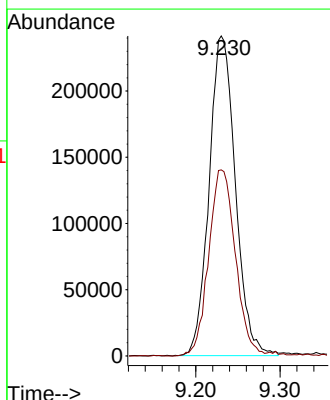
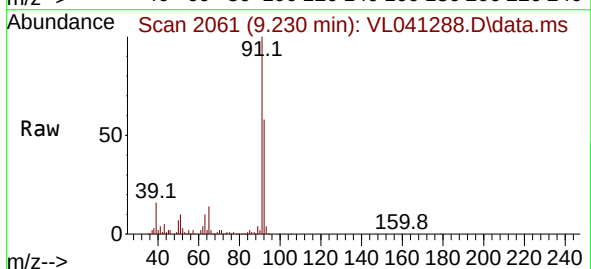
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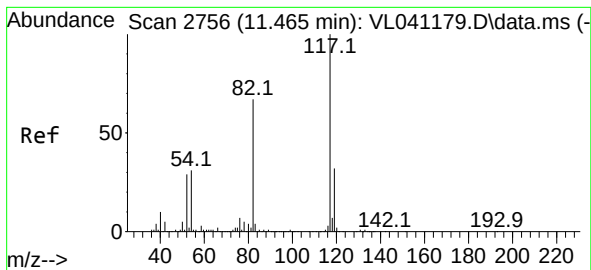
Reviewed By :Semsettin Yesilyurt 05/28/2024
Supervised By :Mahesh Dadoda 05/28/2024



#53
Toluene
Concen: 1.995 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

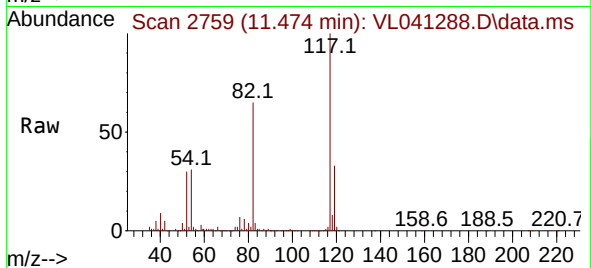
Tgt Ion: 91 Resp: 522815
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.474 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

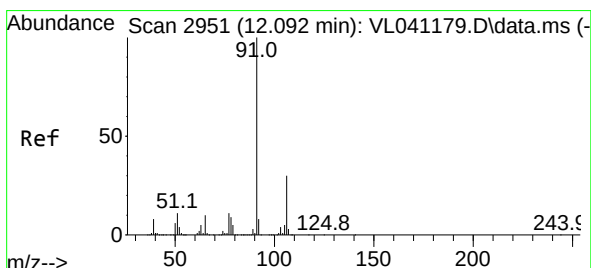
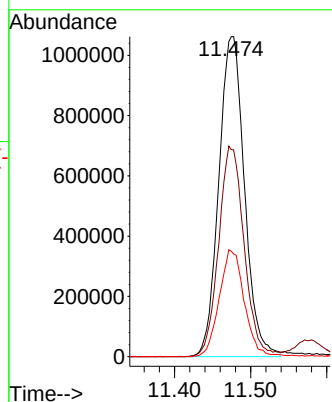
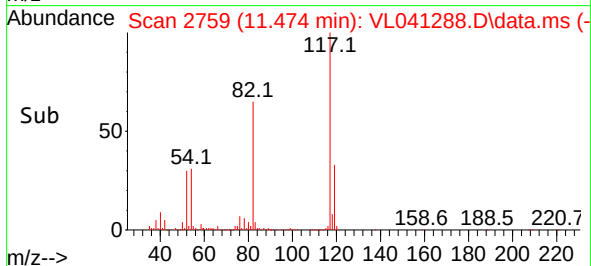
Instrument :
MSVOA_L
ClientSampleId :
SV2



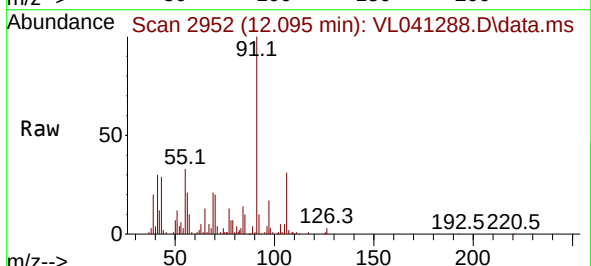
Tgt Ion: 117 Resp: 248842
Ion Ratio Lower Upper
117 100
82 65.4 53.6 80.4
119 33.0 27.2 40.8

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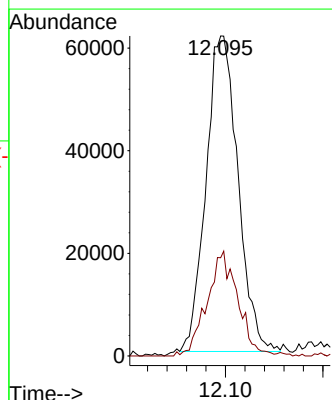
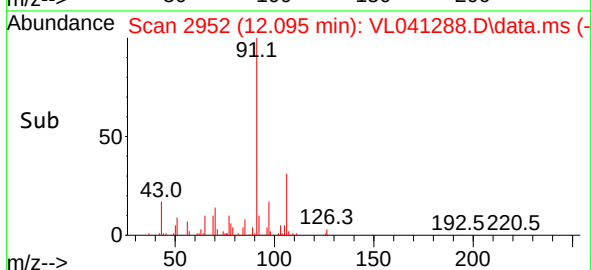
Reviewed By :Semsettin Yesilyurt 05/28/2024
Supervised By :Mahesh Dadoda 05/28/2024

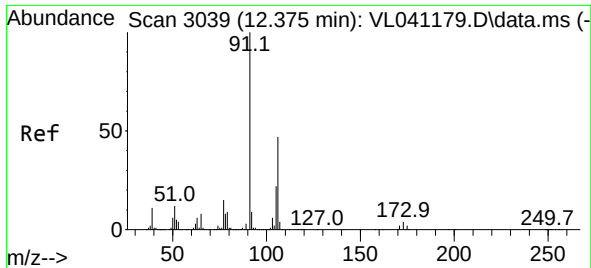


#58
Ethyl Benzene
Concen: 0.411 ppbv
RT: 12.095 min Scan# 2952
Delta R.T. 0.000 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02



Tgt Ion: 91 Resp: 140191
Ion Ratio Lower Upper
91 100
106 30.8 24.3 36.5





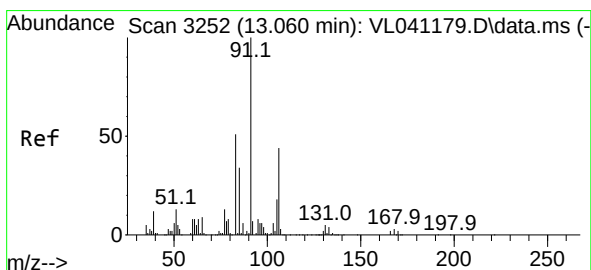
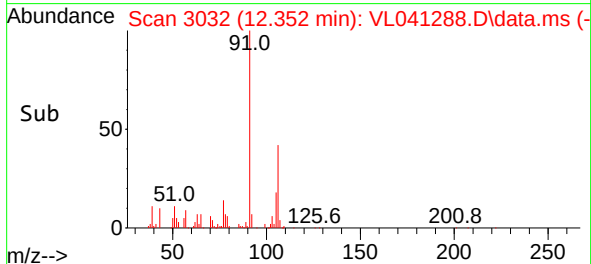
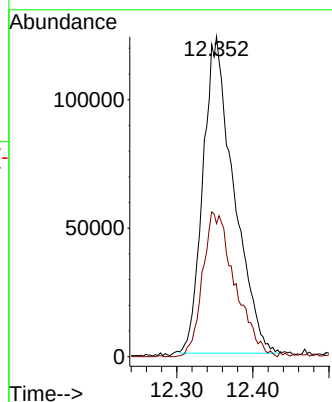
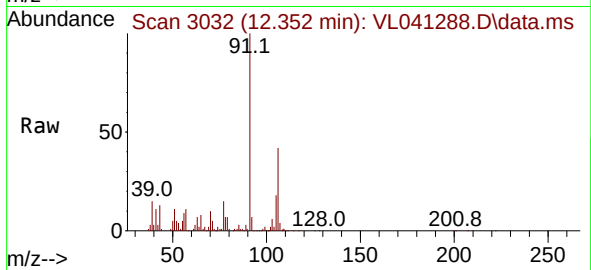
#59
m/p-Xylene
Concen: 1.211 ppbv
RT: 12.352 min Scan# 3032
Delta R.T. -0.026 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 34717
Ion Ratio Lower Upper
91 100
106 48.1 35.7 53.5

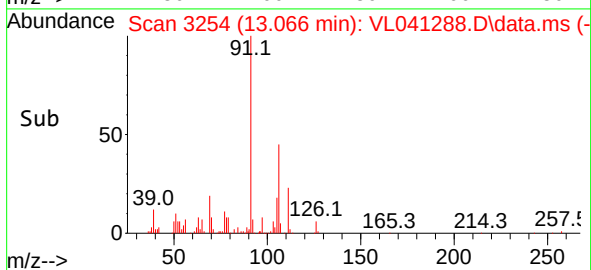
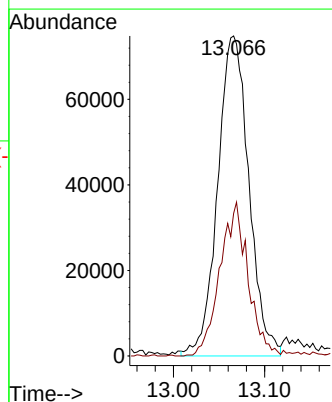
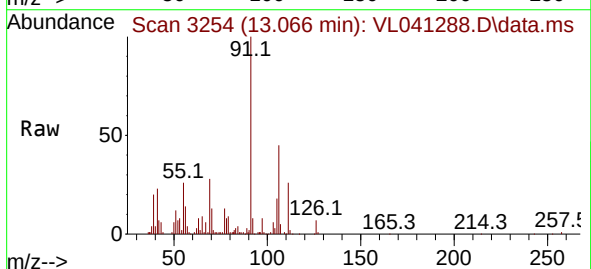
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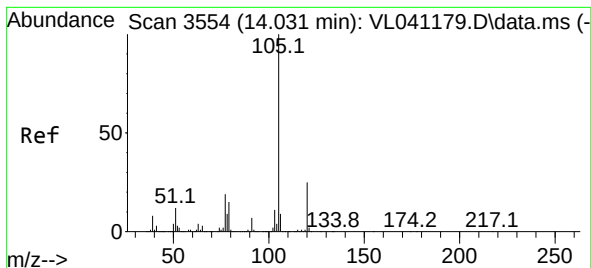
Reviewed By :Semsettin Yesilyurt 05/28/2024
Supervised By :Mahesh Dadoda 05/28/2024



#60
o-Xylene
Concen: 0.663 ppbv m
RT: 13.066 min Scan# 3254
Delta R.T. 0.003 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

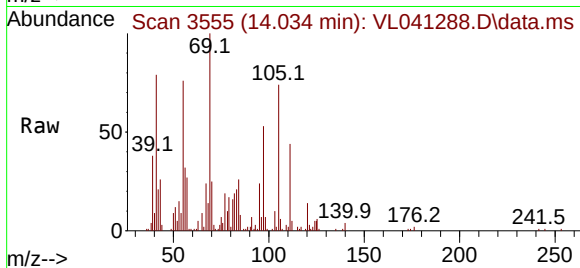
Tgt Ion: 91 Resp: 178245
Ion Ratio Lower Upper
91 100
106 43.4 22.4 67.3





#62
Isopropylbenzene
Concen: 0.133 ppbv m
RT: 14.034 min Scan# 3554
Delta R.T. 0.003 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

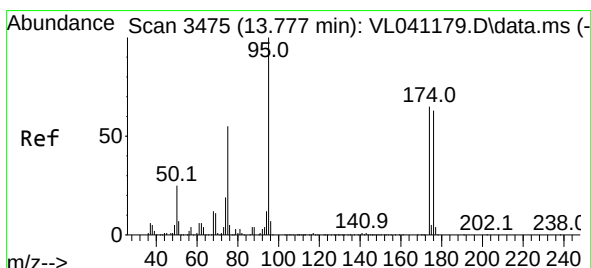
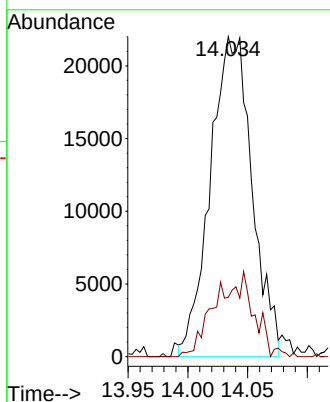
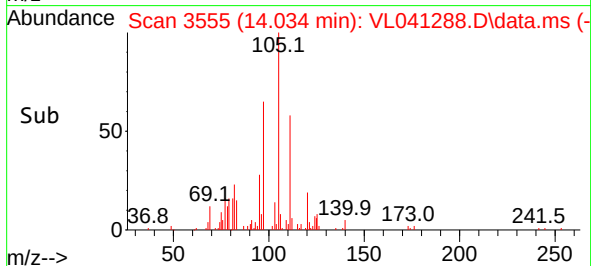
Instrument :
MSVOA_L
ClientSampleId :
SV2



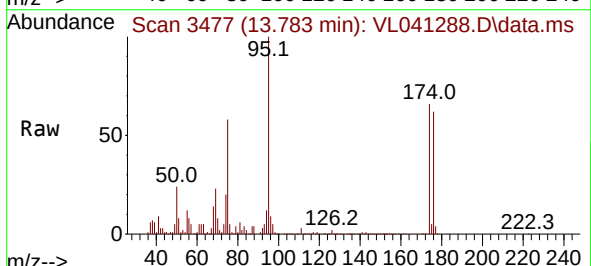
Tgt Ion:105 Resp: 5341
Ion Ratio Lower Upper
105 100
120 0.0 20.2 30.2

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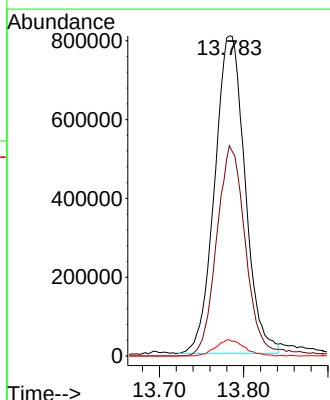
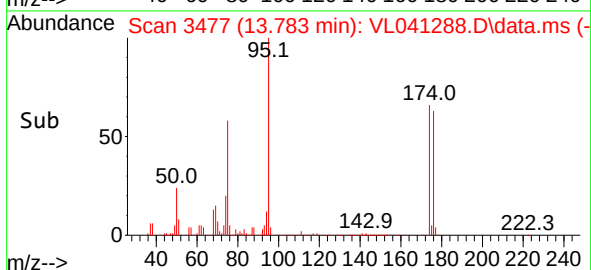
Reviewed By :Semsettin Yesilyurt 05/28/2024
Supervised By :Mahesh Dadoda 05/28/2024

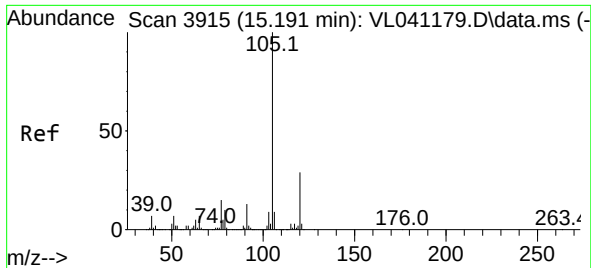


#68
1-Bromo-4-Fluorobenzene
Concen: 10.726 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. 0.003 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02



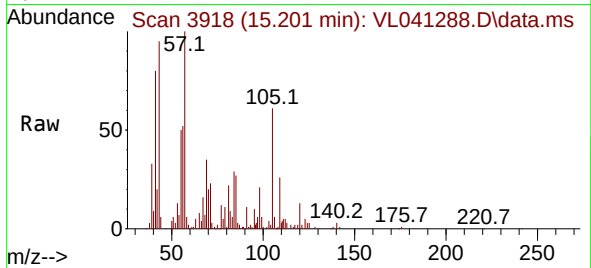
Tgt Ion: 95 Resp: 2015042
Ion Ratio Lower Upper
95 100
174 65.1 53.6 80.4
175 4.9 4.2 6.4





#72
4-Ethyltoluene
Concen: 0.186 ppbv m
RT: 15.201 min Scan# 3918
Delta R.T. 0.003 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

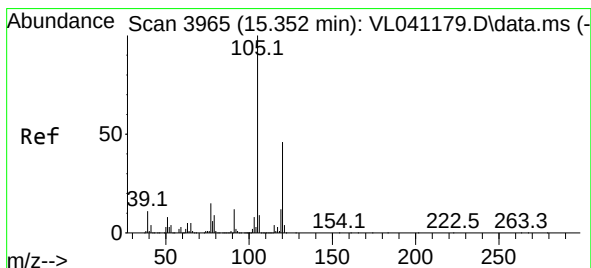
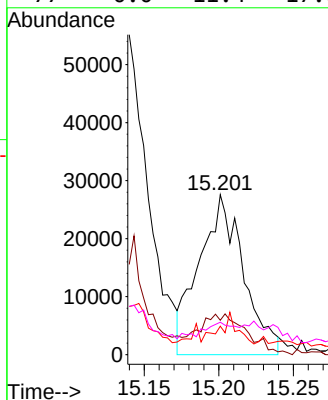
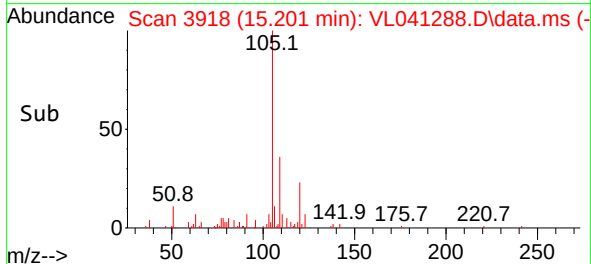
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:105 Resp: 56728
Ion Ratio Lower Upper
105 100
120 0.0 24.7 37.1
91 0.0 10.3 15.5
77 0.0 11.4 17.0#

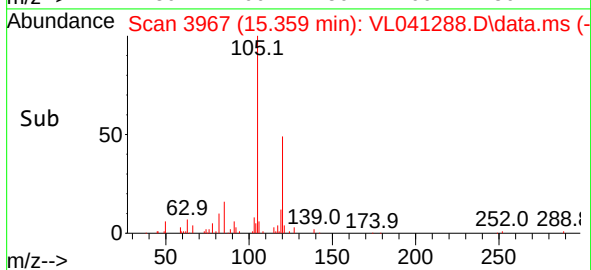
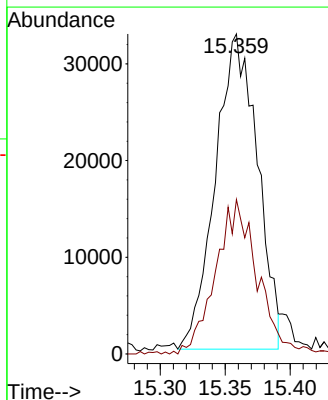
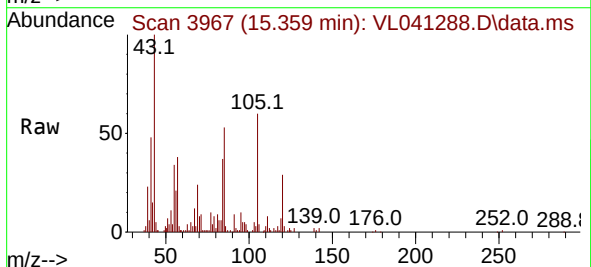
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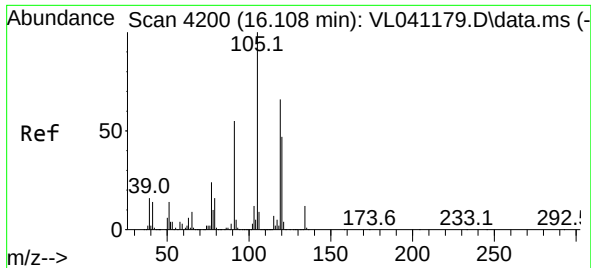
Reviewed By :Semsettin Yesilyurt 05/28/2024
Supervised By :Mahesh Dadoda 05/28/2024



#73
1,3,5-Trimethylbenzene
Concen: 0.267 ppbv
RT: 15.359 min Scan# 3967
Delta R.T. 0.003 min
Lab File: VL041288.D
Acq: 24 May 2024 13:02

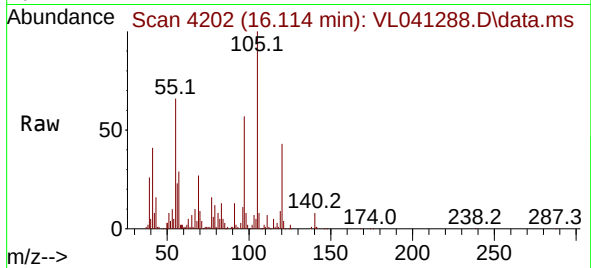
Tgt Ion:105 Resp: 73527
Ion Ratio Lower Upper
105 100
120 49.0 37.0 55.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.792 ppbv
 RT: 16.114 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL041288.D
 Acq: 24 May 2024 13:02

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion:	105	Resp:	238290
Ion	Ratio	Lower	Upper
105	100		
120	43.0	37.8	56.6
91	11.1	44.3	66.5
77	14.4	19.0	28.4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/28/2024
 Supervised By :Mahesh Dadoda 05/28/2024

