

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050224\
 Data File : VL041200.D
 Acq On : 2 May 2024 17:58
 Operator : SY/MD
 Sample : P2334-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BA-20-SS01-20240425

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2024
 Supervised By :Mahesh Dadoda 05/07/2024

Quant Time: May 03 03:42:32 2024

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

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

QLast Update : Fri May 03 03:34:47 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	794369	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2080965	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	1914120	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.777 95 1422456 9.844 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.732	85	60911	0.567	ppbv	95
4) Chloromethane	2.816	50	391868	8.278	ppbv	93
5) Vinyl Chloride	2.925	62	2404m	0.051	ppbv	
7) Chloroethane	3.202	64	7089m	0.422	ppbv	
11) Trichlorofluoromethane	3.565	101	31238	0.286	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.076	101	7106m	0.088	ppbv	
13) Ethanol	3.240	45	131365	12.412	ppbv	98
15) Acetone	3.472	43	1147315	12.238	ppbv	98
17) tert-Butyl alcohol	3.886	59	73954	0.731	ppbv	98
20) Methylene Chloride	3.938	84	286832	8.798	ppbv	94
23) Vinyl Acetate	4.619	43	241434	2.339	ppbv #	87
26) Hexane	5.214	57	349861	4.190	ppbv #	48
29) Chloroform	5.272	83	87885	0.763	ppbv	95
32) 1,1,1-Trichloroethane	6.008	97	38200m	0.332	ppbv	
34) 2-Butanone	4.790	43	249875	2.359	ppbv	99
35) Carbon Tetrachloride	6.497	117	33615m	0.288	ppbv	
36) Benzene	6.372	78	22684	0.130	ppbv	93
37) 1,2-Dichloroethane	5.809	62	13911m	0.153	ppbv	
38) Trichloroethene	7.295	130	1401462	21.535	ppbv	98
41) Tetrahydrofuran	5.571	42	19496m	0.254	ppbv	
52) Tetrachloroethene	10.616	164	39277	0.640	ppbv	89
53) Toluene	9.224	91	184925	0.913	ppbv	99
58) Ethyl Benzene	12.085	91	30486m	0.116	ppbv	
59) m/p-Xylene	12.349	91	92476m	0.419	ppbv	
60) o-Xylene	13.060	91	26493m	0.128	ppbv	
61) Styrene	12.899	104	19849m	0.182	ppbv	
69) p-Isopropyltoluene	17.002	119	65670m	0.204	ppbv	
74) 1,2,4-Trimethylbenzene	16.105	105	39415m	0.170	ppbv	

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

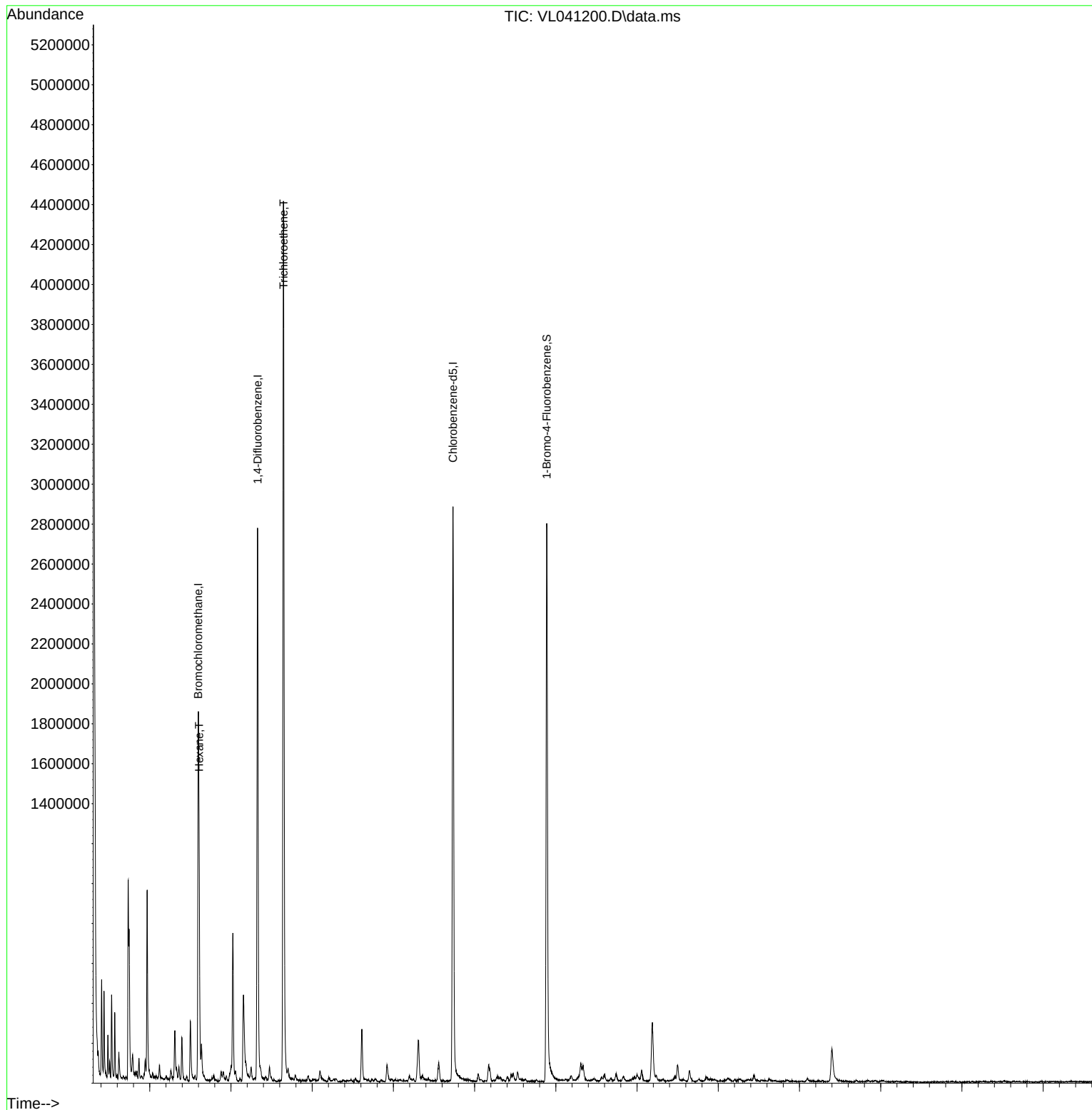
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050224\
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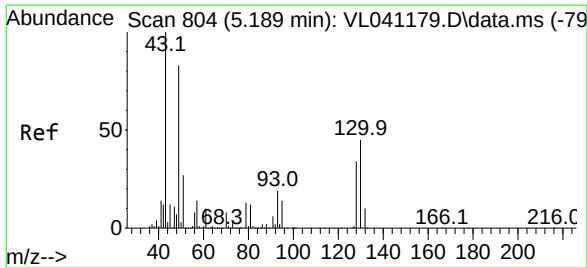
Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS01-20240425

Quant Time: May 03 03:42:32 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 03 03:34:47 2024
Response via : Initial Calibration

Manual Integrations
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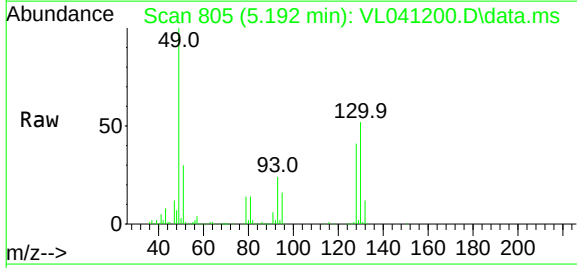
Reviewed By : Semsettin Yesilyurt 05/06/2024
Supervised By : Mahesh Dadoda 05/07/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.000 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

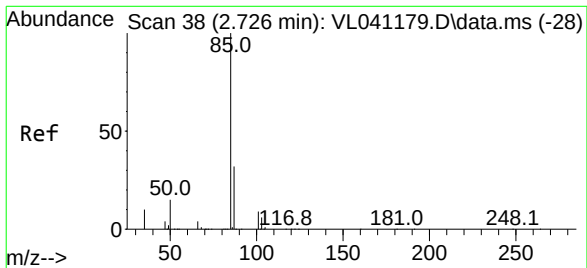
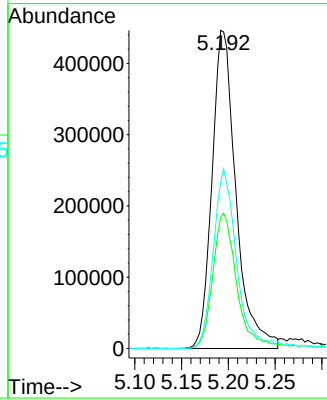
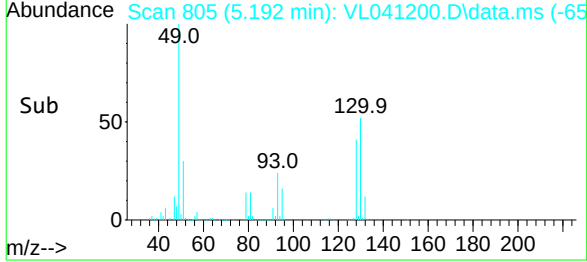
Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS01-20240425



Tgt Ion: 49 Resp: 794369
Ion Ratio Lower Upper
49 100
128 44.1 21.5 64.5
130 57.3 27.2 81.6

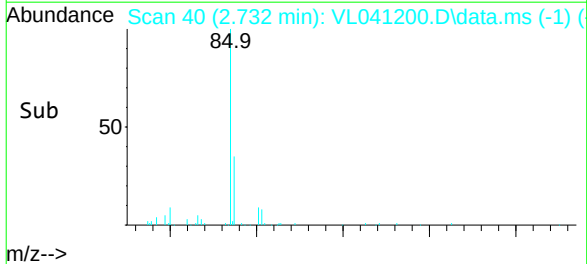
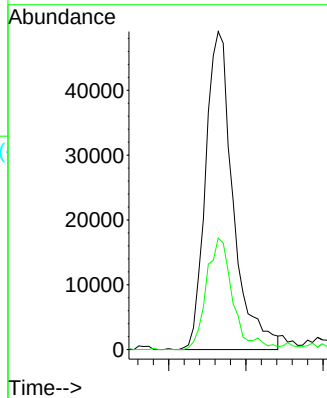
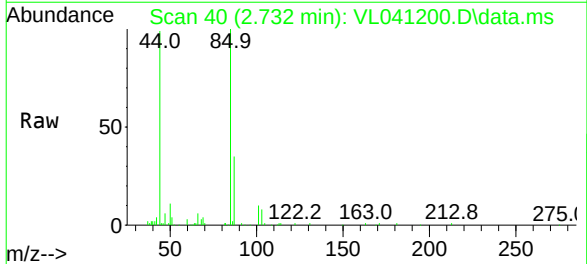
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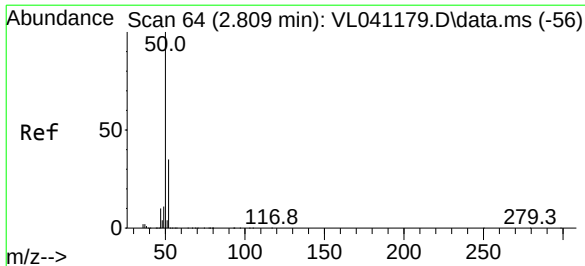
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#2
Dichlorodifluoromethane
Concen: 0.567 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.003 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

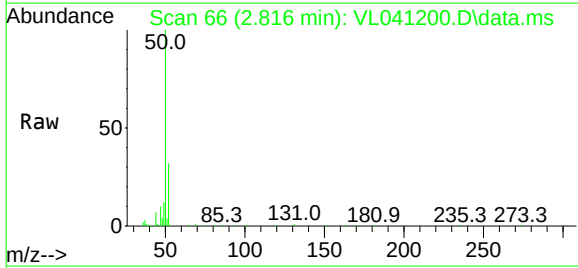
Tgt Ion: 85 Resp: 60911
Ion Ratio Lower Upper
85 100
87 35.1 25.7 38.5





#4
Chloromethane
Concen: 8.278 ppbv
RT: 2.816 min Scan# 66
Delta R.T. 0.003 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

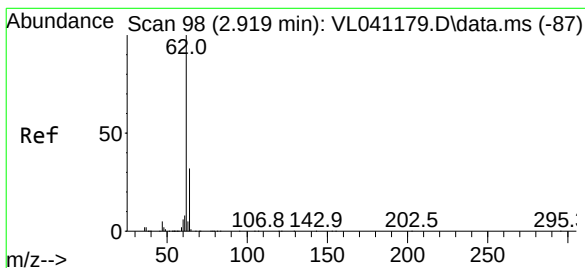
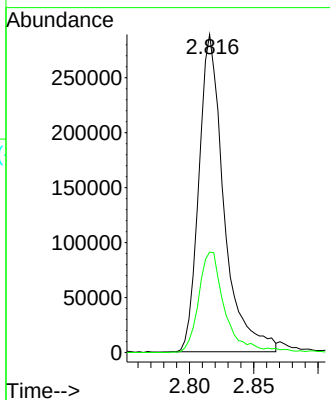
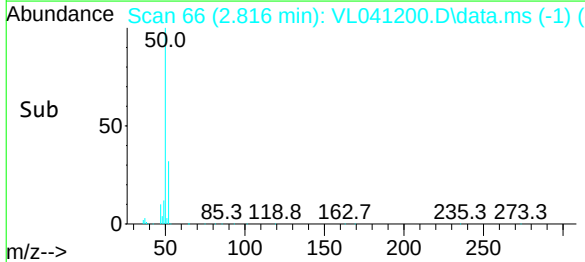
Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS01-20240425



Tgt Ion: 50 Resp: 391868
Ion Ratio Lower Upper
50 100
52 31.5 28.3 42.5

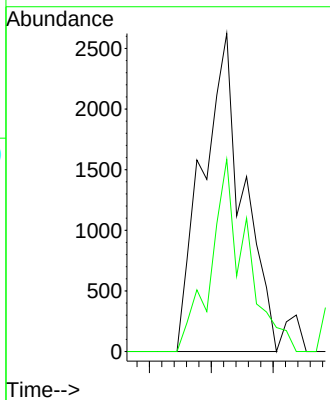
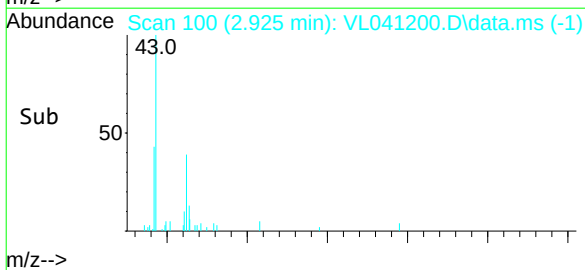
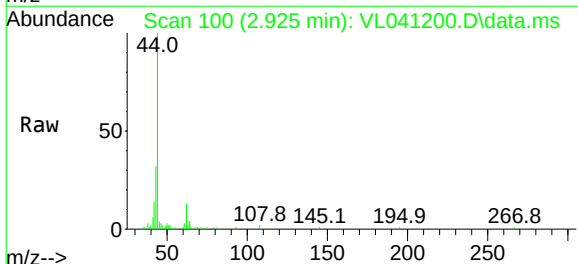
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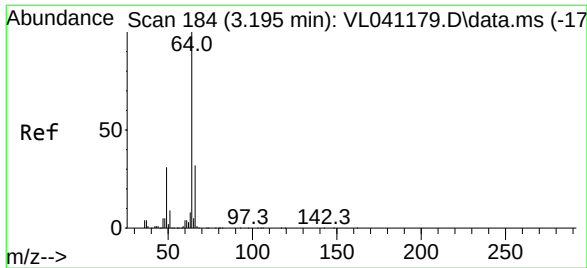
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#5
Vinyl Chloride
Concen: 0.051 ppbv m
RT: 2.925 min Scan# 100
Delta R.T. 0.007 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

Tgt Ion: 62 Resp: 2404
Ion Ratio Lower Upper
62 100
64 28.2 25.7 38.5





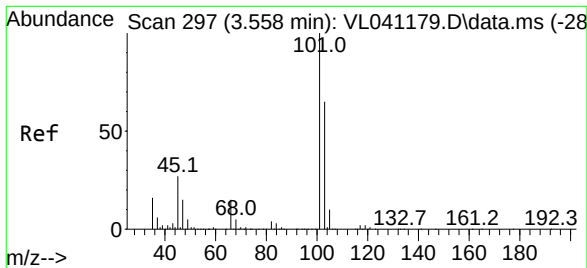
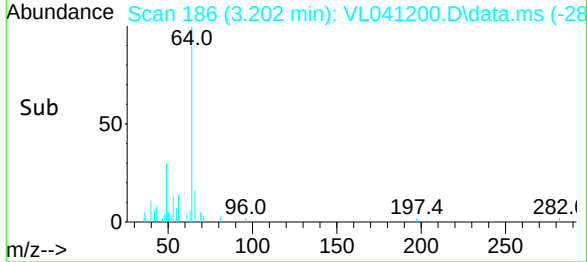
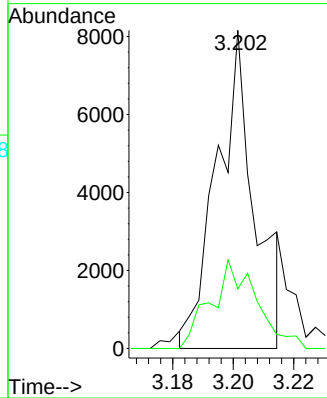
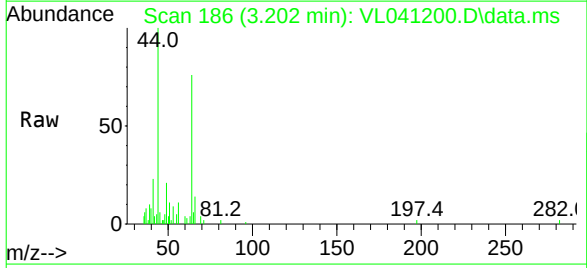
#7
Chloroethane
Concen: 0.422 ppbv m
RT: 3.202 min Scan# 18
Delta R.T. 0.007 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS01-20240425

Tgt Ion: 64 Resp: 7089
Ion Ratio Lower Upper
64 100
66 18.8 25.4 38.2#

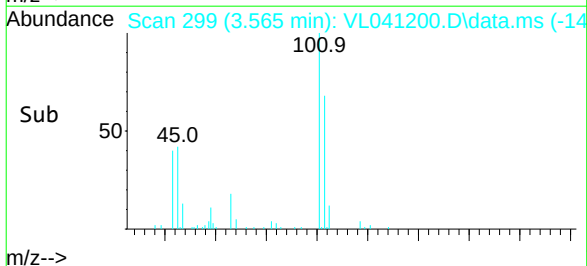
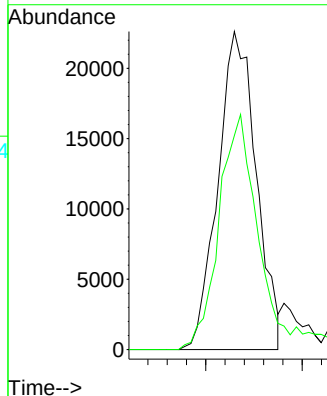
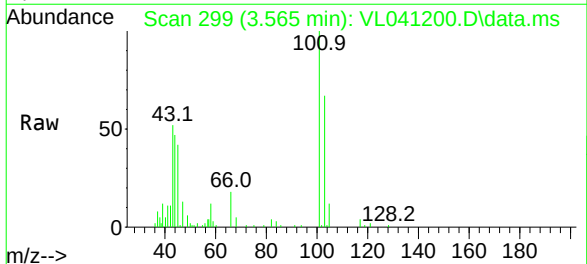
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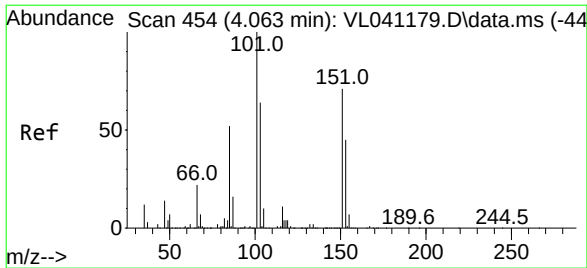
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#11
Trichlorofluoromethane
Concen: 0.286 ppbv
RT: 3.565 min Scan# 299
Delta R.T. 0.007 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

Tgt Ion:101 Resp: 31238
Ion Ratio Lower Upper
101 100
103 67.3 51.6 77.4





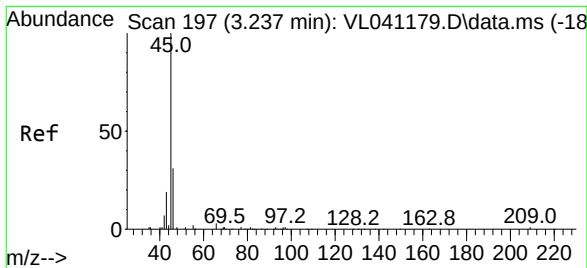
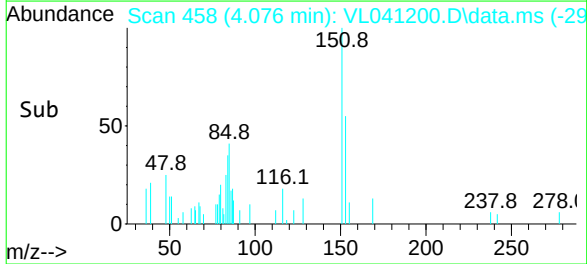
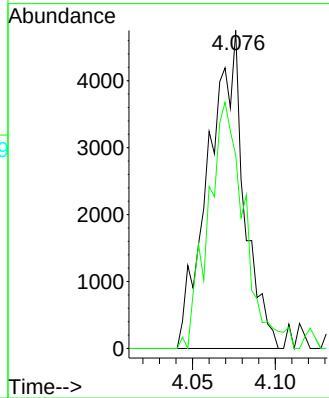
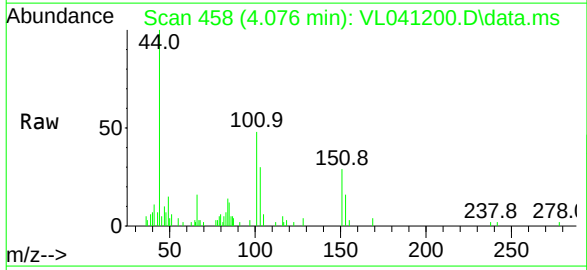
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.088 ppbv m
RT: 4.076 min Scan# 45
Delta R.T. 0.013 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS01-20240425

Tgt Ion:101 Resp: 7106
Ion Ratio Lower Upper
101 100
151 79.3 56.8 85.2

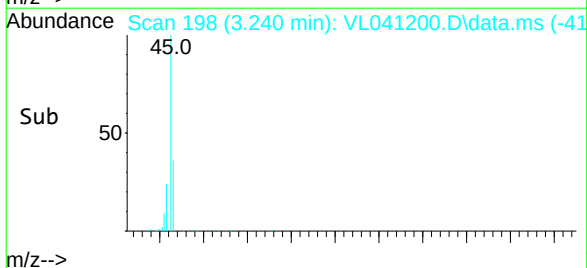
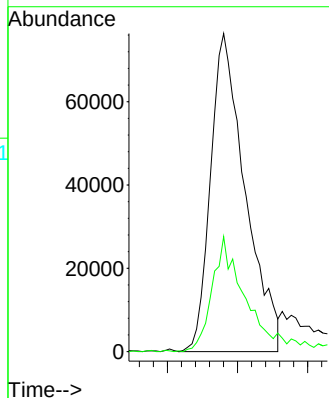
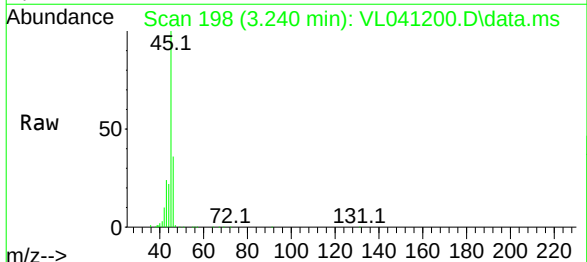
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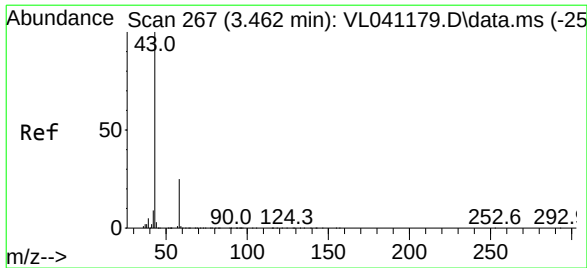
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#13
Ethanol
Concen: 12.412 ppbv
RT: 3.240 min Scan# 198
Delta R.T. 0.003 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

Tgt Ion: 45 Resp: 131365
Ion Ratio Lower Upper
45 100
46 35.6 14.8 59.0





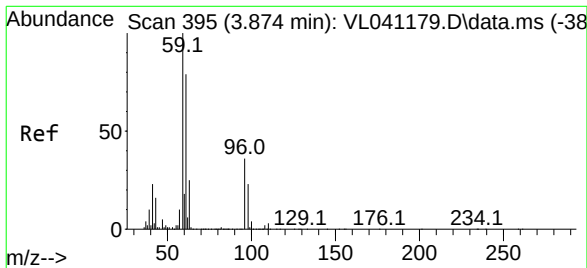
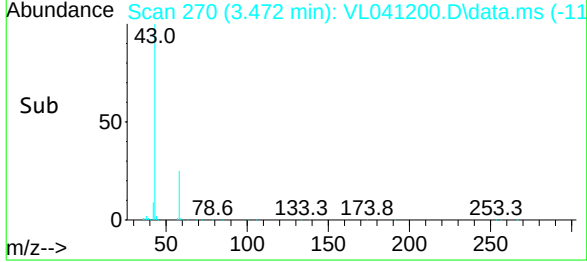
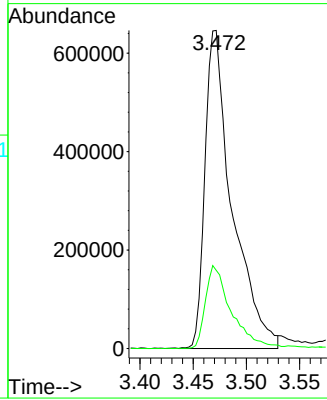
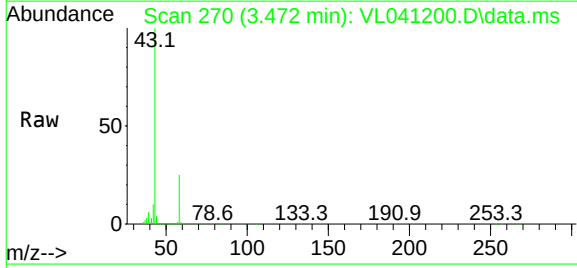
#15
Acetone
Concen: 12.238 ppbv
RT: 3.472 min Scan# 271
Delta R.T. 0.007 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS01-20240425

Tgt Ion: 43 Resp: 1147315
Ion Ratio Lower Upper
43 100
58 25.8 21.4 32.0

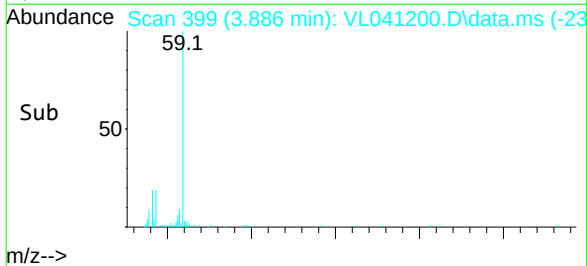
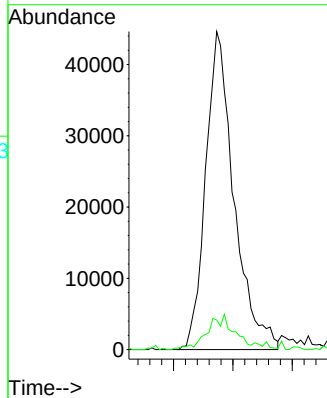
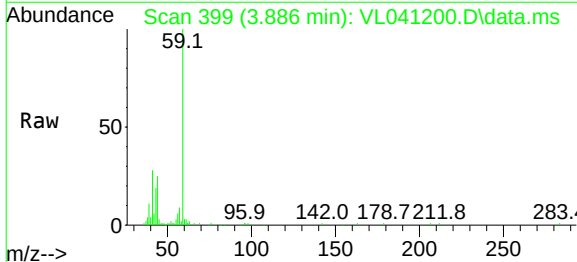
Manual Integrations
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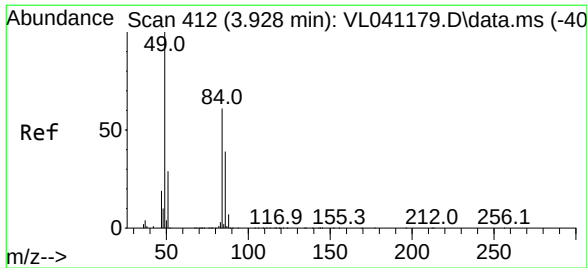
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#17
tert-Butyl alcohol
Concen: 0.731 ppbv
RT: 3.886 min Scan# 399
Delta R.T. 0.013 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

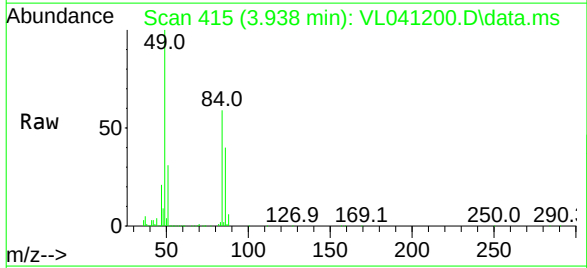
Tgt Ion: 59 Resp: 73954
Ion Ratio Lower Upper
59 100
57 11.2 8.4 12.6





#20
Methylene Chloride
Concen: 8.798 ppbv
RT: 3.938 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

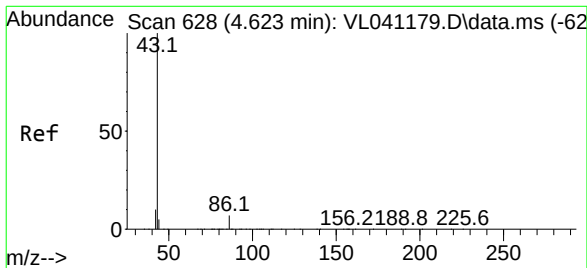
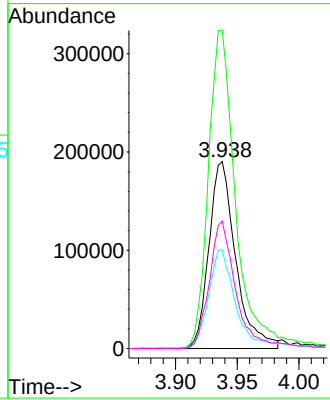
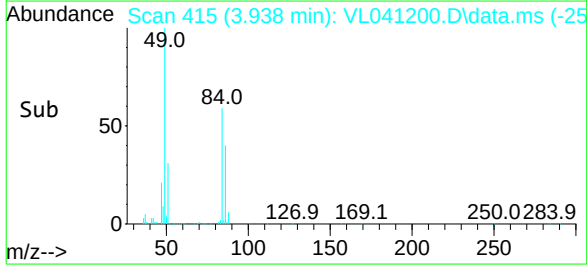
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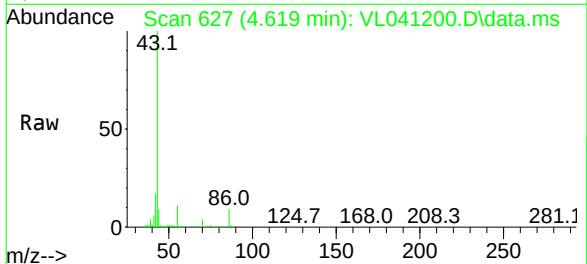
Tgt Ion: 84 Resp: 286832
Ion Ratio Lower Upper
84 100
49 170.0 130.4 195.6
51 52.7 38.0 57.0
86 68.2 50.3 75.5

Manual Integrations
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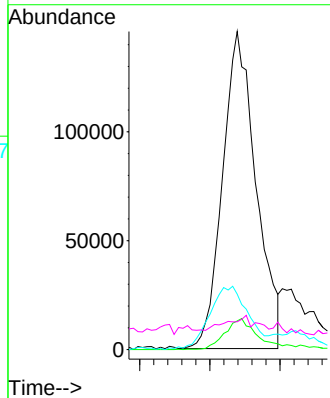
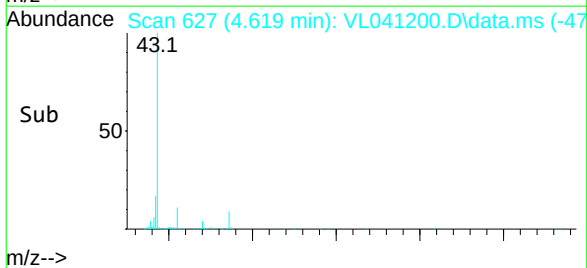
Reviewed By :Semsettin Yesilyurt 05/06/2024
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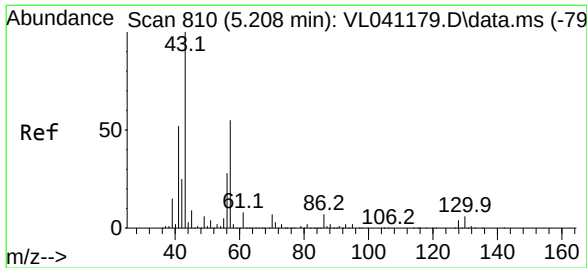


#23
Vinyl Acetate
Concen: 2.339 ppbv
RT: 4.619 min Scan# 627
Delta R.T. -0.006 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58



Tgt Ion: 43 Resp: 241434
Ion Ratio Lower Upper
43 100
86 8.9 4.9 7.3#
42 16.6 8.0 12.0#
44 1.8 3.7 5.5#





#26

Hexane

Concen: 4.190 ppbv

RT: 5.214 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL041200.D

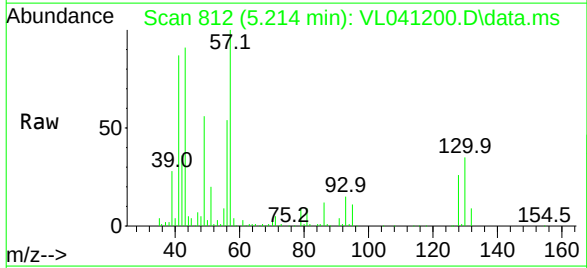
Acq: 2 May 2024 17:58

Instrument :

MSVOA_L

ClientSampleId :

BA-20-SS01-20240425



Tgt Ion: 57 Resp: 349861

Ion Ratio Lower Upper

57 100

41 92.8 75.8 113.8

43 94.8 187.0 280.4#

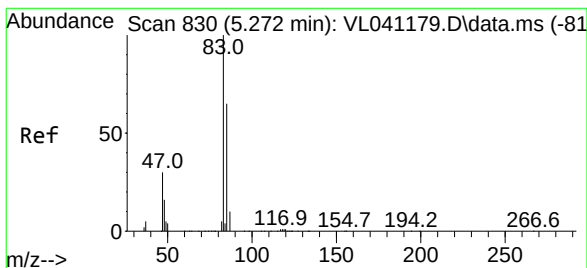
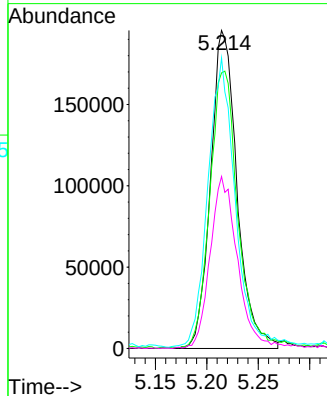
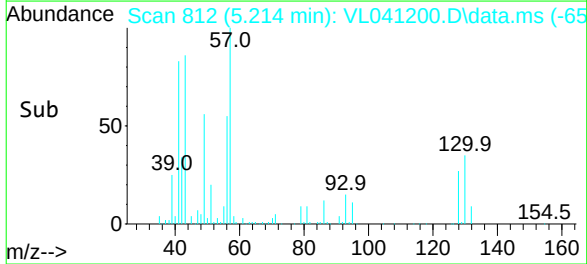
56 56.5 42.7 64.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/06/2024

Supervised By :Mahesh Dadoda 05/07/2024



#29

Chloroform

Concen: 0.763 ppbv

RT: 5.272 min Scan# 830

Delta R.T. 0.000 min

Lab File: VL041200.D

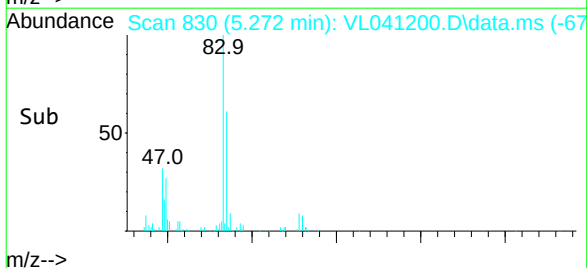
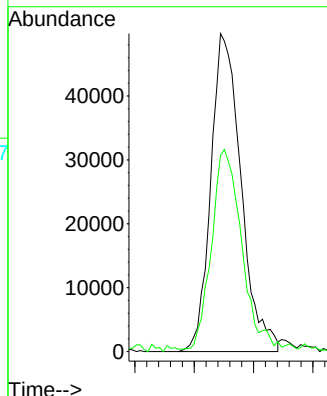
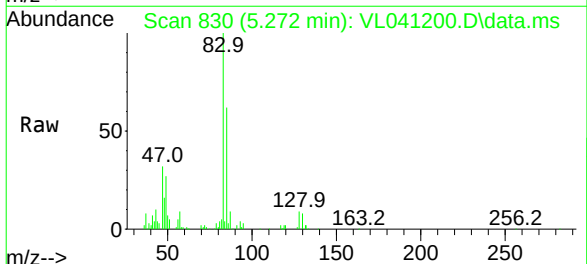
Acq: 2 May 2024 17:58

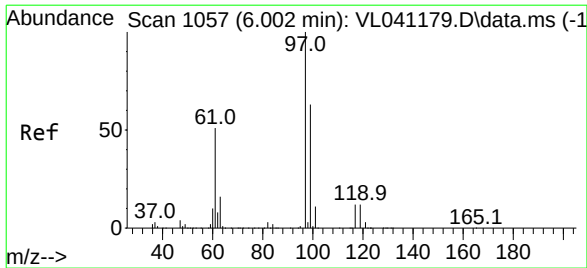
Tgt Ion: 83 Resp: 87885

Ion Ratio Lower Upper

83 100

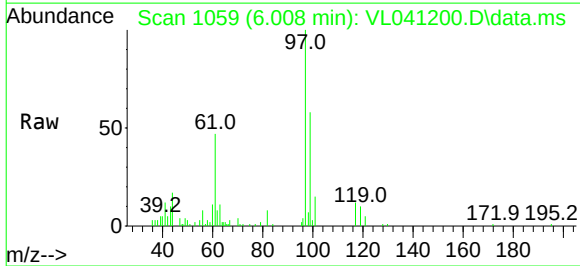
85 61.0 51.7 77.5





#32
1,1,1-Trichloroethane
Concen: 0.332 ppbv m
RT: 6.008 min Scan# 1057
Delta R.T. 0.007 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

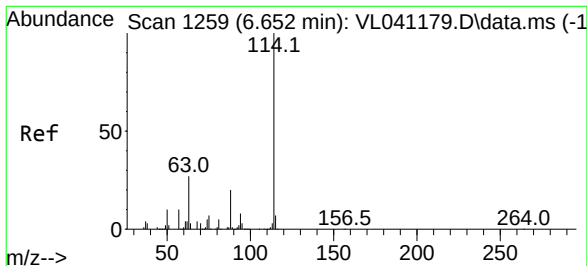
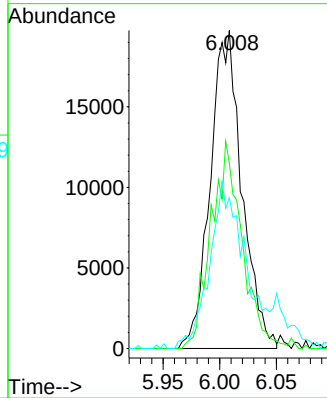
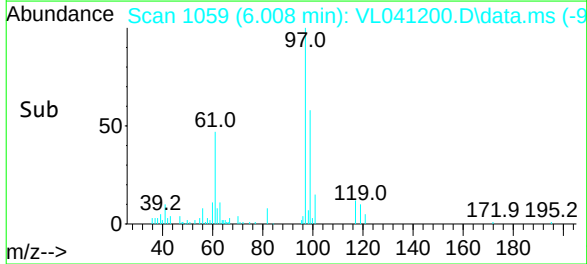
Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS01-20240425



Tgt Ion: 97 Resp: 38200
Ion Ratio Lower Upper
97 100
99 0.0 51.7 77.5#
61 68.0 41.1 61.7#

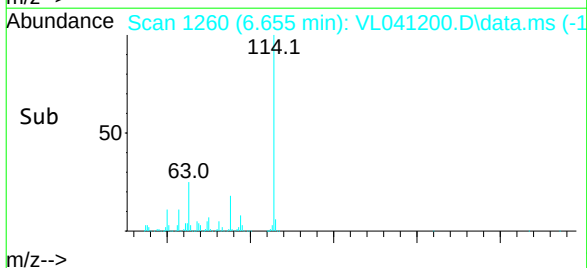
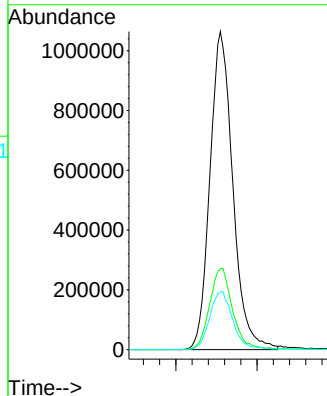
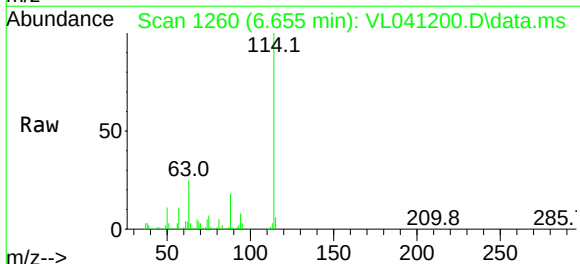
Manual Integrations
APPROVED

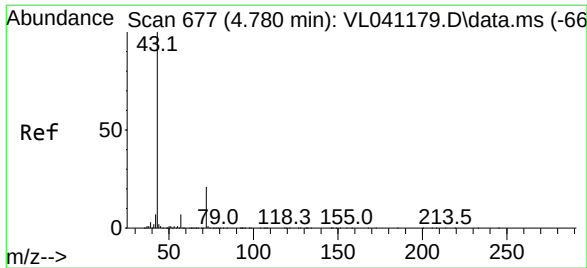
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. 0.003 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

Tgt Ion:114 Resp: 2080965
Ion Ratio Lower Upper
114 100
63 25.8 21.8 32.6
88 18.7 15.2 22.8





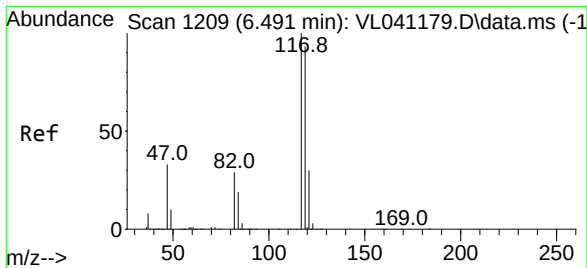
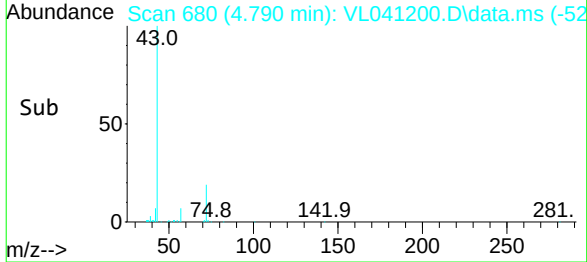
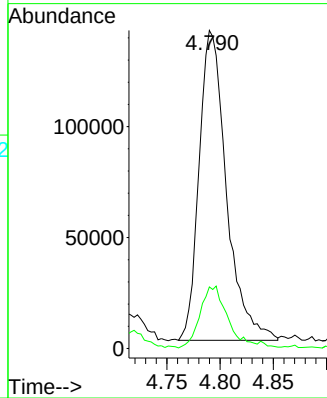
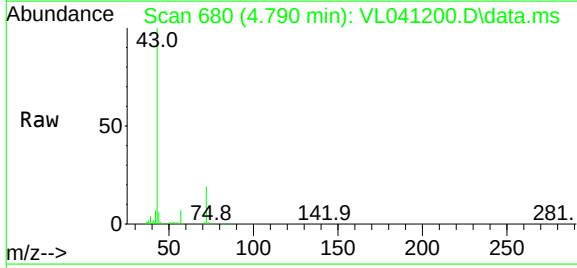
#34
2-Butanone
Concen: 2.359 ppbv
RT: 4.790 min Scan# 68
Delta R.T. 0.007 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS01-20240425

Tgt Ion: 43 Resp: 249875
Ion Ratio Lower Upper
43 100
72 22.3 17.3 25.9

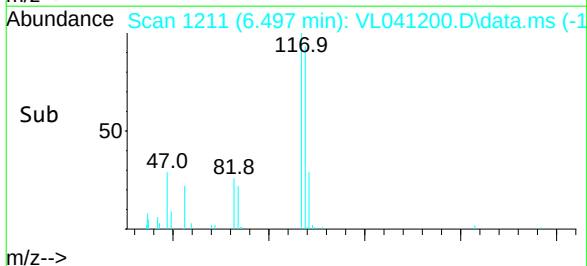
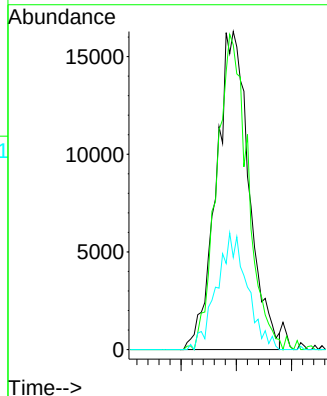
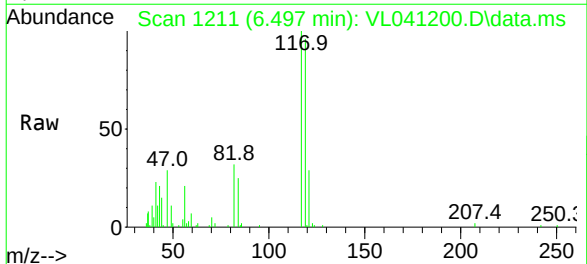
Manual Integrations
APPROVED

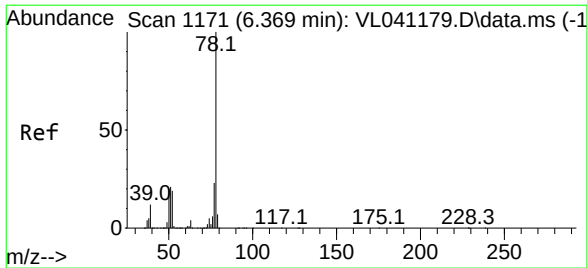
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#35
Carbon Tetrachloride
Concen: 0.288 ppbv m
RT: 6.497 min Scan# 1211
Delta R.T. 0.007 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

Tgt Ion:117 Resp: 33615
Ion Ratio Lower Upper
117 100
119 95.8 74.3 111.5
121 29.0 23.8 35.8





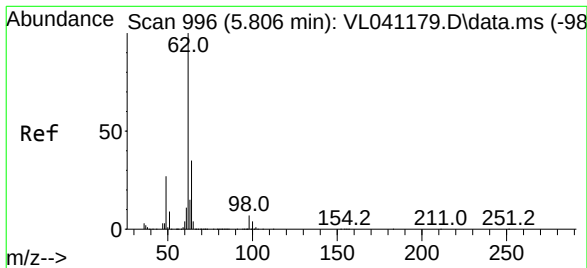
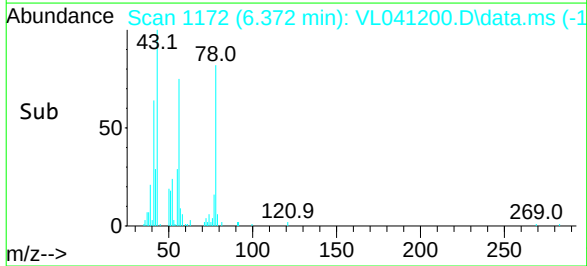
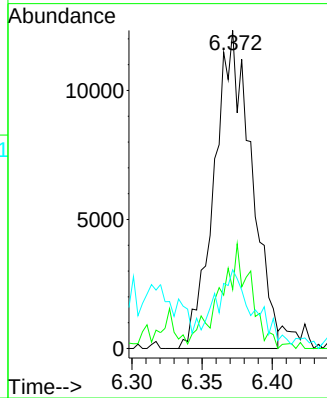
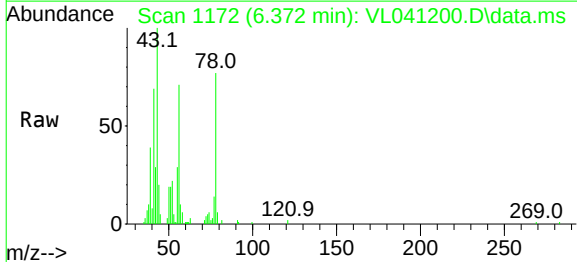
#36
Benzene
Concen: 0.130 ppbv
RT: 6.372 min Scan# 1171
Delta R.T. 0.003 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS01-20240425

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.6	18.3	27.5
50	22.3	15.9	23.9

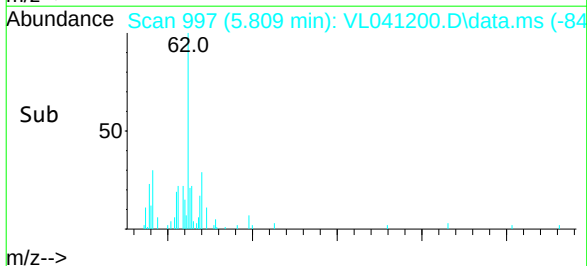
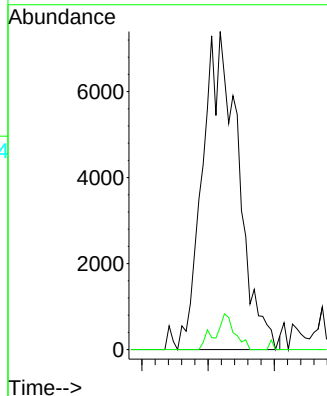
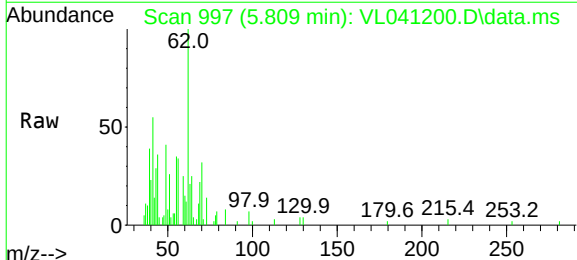
Manual Integrations
APPROVED

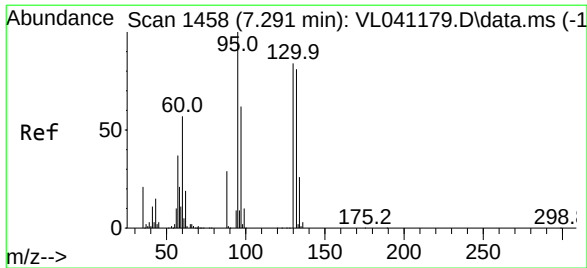
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#37
1,2-Dichloroethane
Concen: 0.153 ppbv m
RT: 5.809 min Scan# 997
Delta R.T. 0.003 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

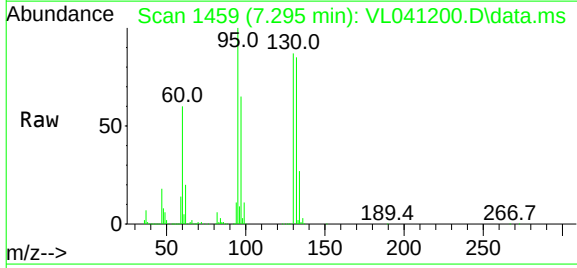
Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.4	5.0	7.4





#38
Trichloroethene
Concen: 21.535 ppbv
RT: 7.295 min Scan# 1458
Delta R.T. 0.007 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

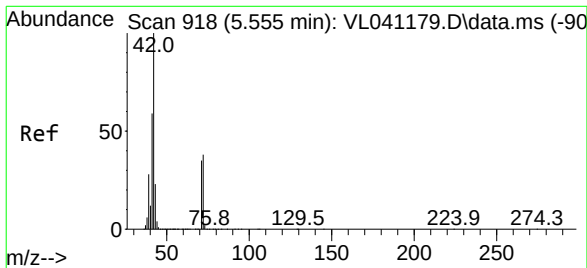
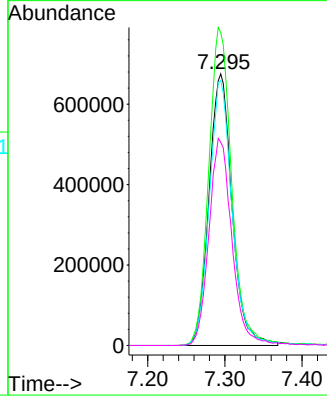
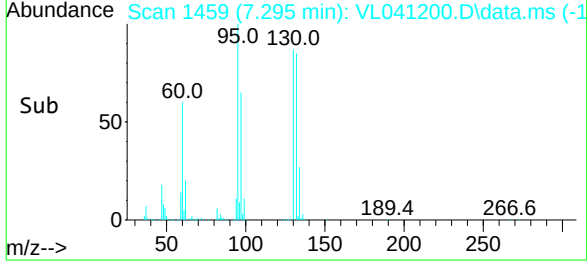
Instrument : MSVOA_L
ClientSampleId : BA-20-SS01-20240425



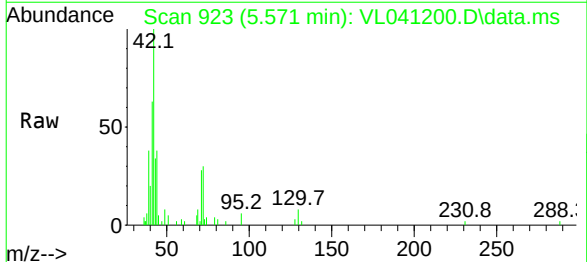
Tgt Ion: 130 Resp: 1401462
Ion Ratio Lower Upper
130 100
95 115.2 95.0 142.6
132 97.5 77.0 115.4
97 74.7 59.1 88.7

Manual Integrations
APPROVED

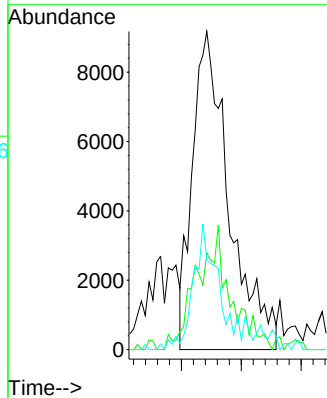
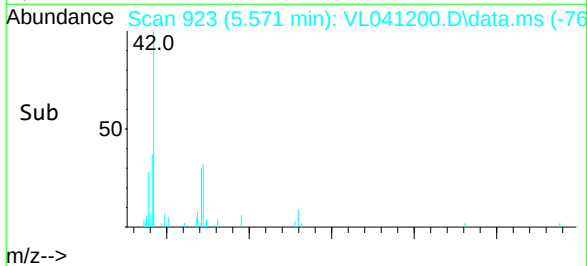
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024

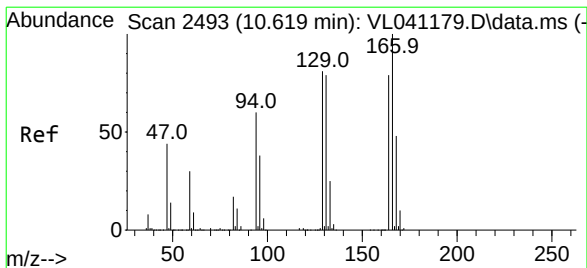


#41
Tetrahydrofuran
Concen: 0.254 ppbv m
RT: 5.571 min Scan# 923
Delta R.T. 0.019 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58



Tgt Ion: 42 Resp: 19496
Ion Ratio Lower Upper
42 100
72 0.0 29.4 44.0#
71 31.6 29.1 43.7





#52

Tetrachloroethene

Concen: 0.640 ppbv

RT: 10.616 min Scan# 2493

Delta R.T. 0.003 min

Lab File: VL041200.D

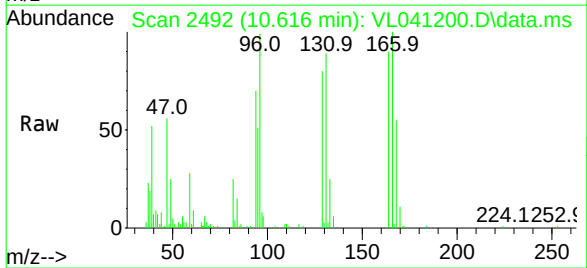
Acq: 2 May 2024 17:58

Instrument :

MSVOA_L

ClientSampleId :

BA-20-SS01-20240425



Tgt Ion: 164 Resp: 39277

Ion Ratio Lower Upper

164 100

166 110.6 101.1 151.7

129 87.3 81.7 122.5

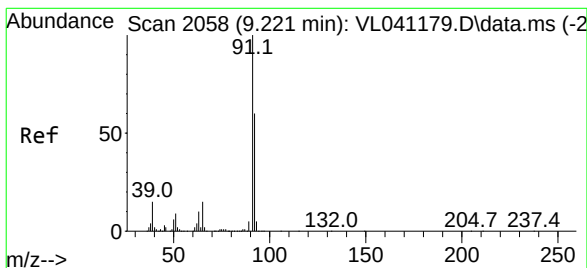
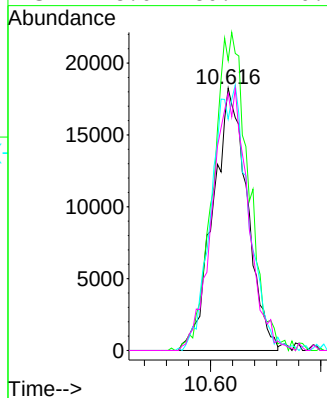
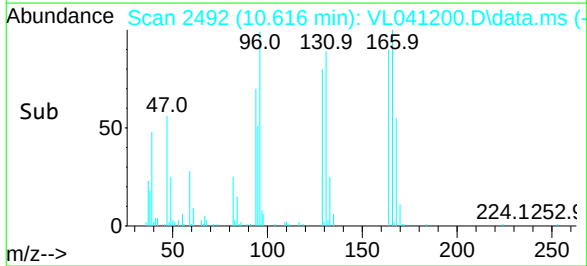
131 98.0 80.4 120.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2024

Supervised By :Mahesh Dadoda 05/07/2024



#53

Toluene

Concen: 0.913 ppbv

RT: 9.224 min Scan# 2059

Delta R.T. 0.003 min

Lab File: VL041200.D

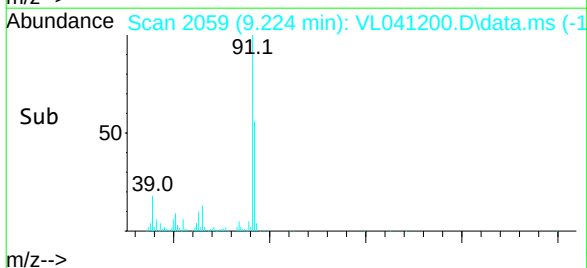
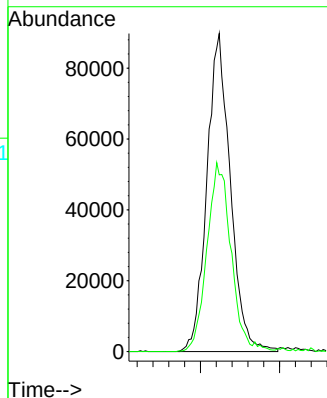
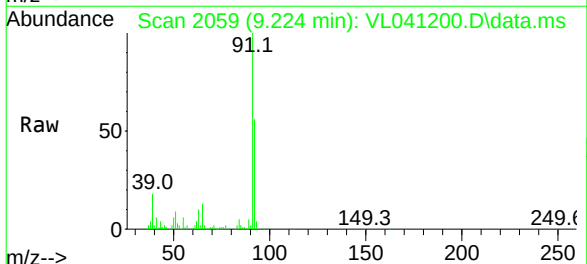
Acq: 2 May 2024 17:58

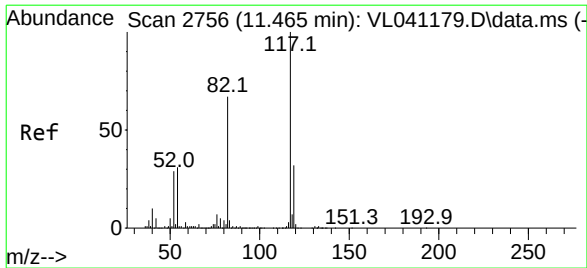
Tgt Ion: 91 Resp: 184925

Ion Ratio Lower Upper

91 100

92 60.9 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.468 min Scan# 2756

Delta R.T. 0.003 min

Lab File: VL041200.D

Acq: 2 May 2024 17:58

Instrument :

MSVOA_L

ClientSampleId :

BA-20-SS01-20240425

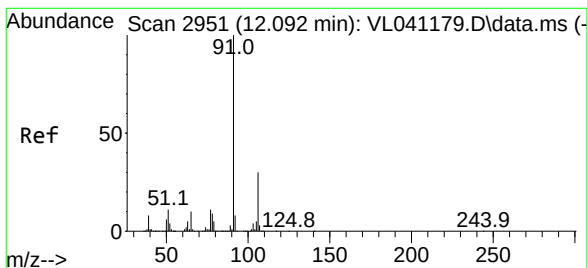
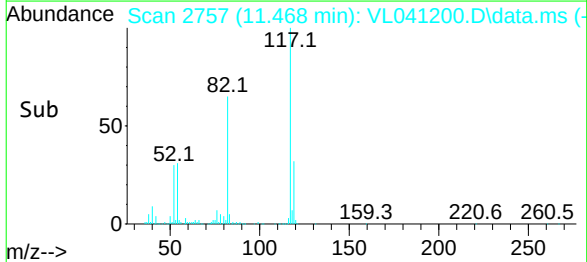
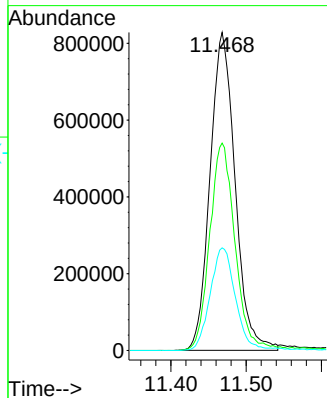
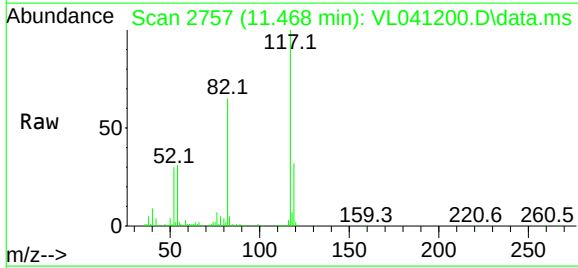
Tgt Ion:117 Resp: 1914120

Ion	Ratio	Lower	Upper
117	100		
82	66.9	53.6	80.4
119	33.2	27.2	40.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#58

Ethyl Benzene

Concen: 0.116 ppbv m

RT: 12.085 min Scan# 2949

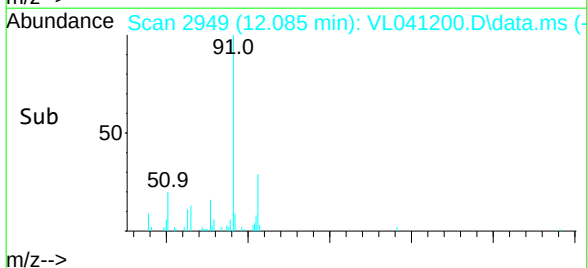
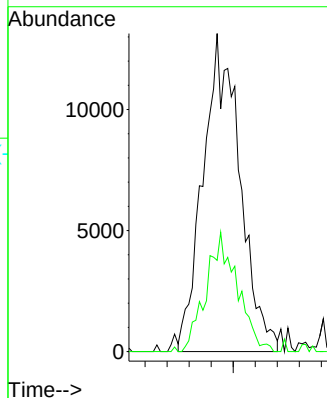
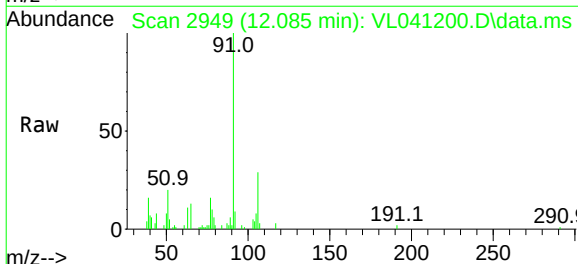
Delta R.T. 0.000 min

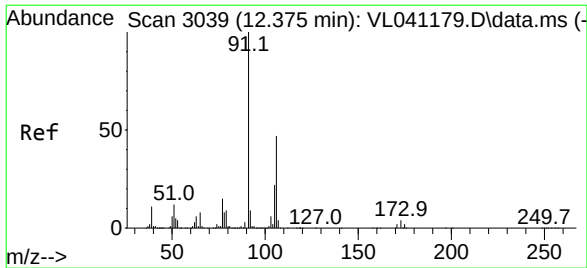
Lab File: VL041200.D

Acq: 2 May 2024 17:58

Tgt Ion: 91 Resp: 30486

Ion	Ratio	Lower	Upper
91	100		
106	28.7	24.3	36.5





#59

m/p-Xylene

Concen: 0.419 ppbv m

RT: 12.349 min Scan# 3031

Delta R.T. -0.022 min

Lab File: VL041200.D

Acq: 2 May 2024 17:58

Instrument :

MSVOA_L

ClientSampleId :

BA-20-SS01-20240425

Tgt Ion: 91 Resp: 92476

Ion Ratio Lower Upper

91 100

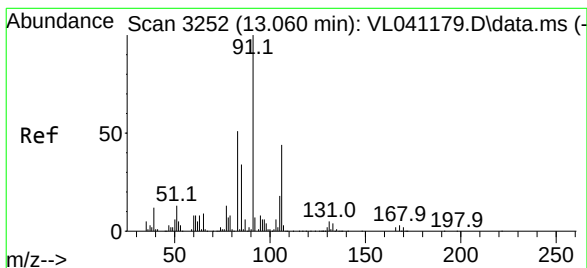
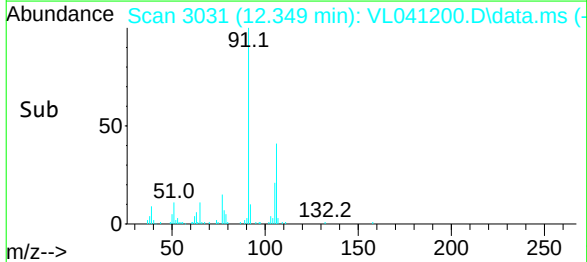
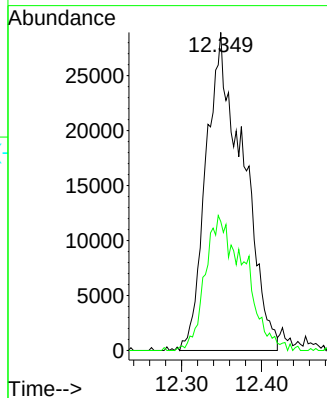
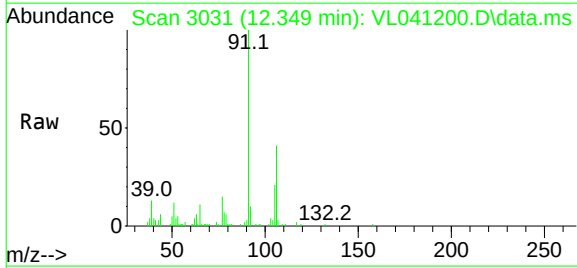
106 0.0 35.7 53.5#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2024

Supervised By :Mahesh Dadoda 05/07/2024



#60

o-Xylene

Concen: 0.128 ppbv m

RT: 13.060 min Scan# 3252

Delta R.T. 0.003 min

Lab File: VL041200.D

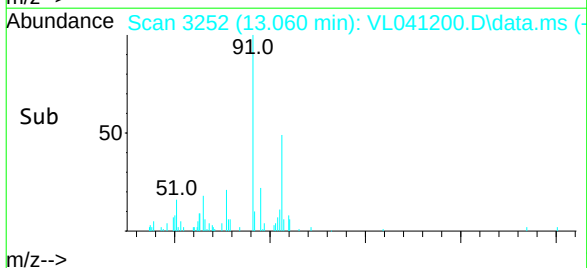
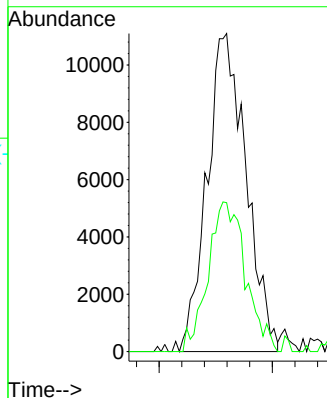
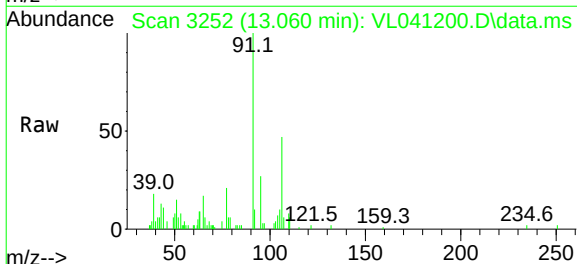
Acq: 2 May 2024 17:58

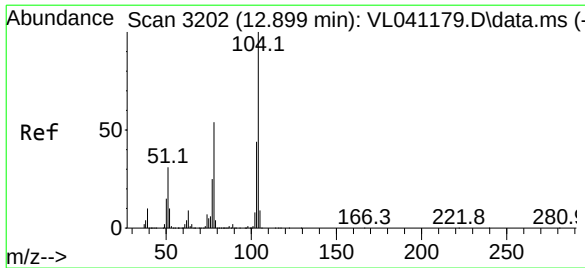
Tgt Ion: 91 Resp: 26493

Ion Ratio Lower Upper

91 100

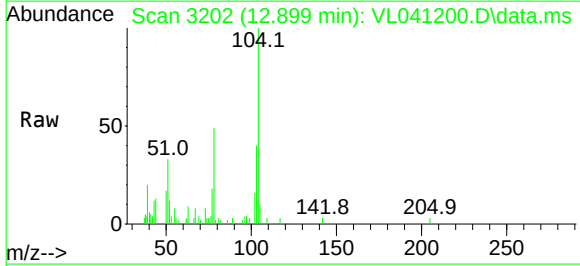
106 46.2 22.4 67.3





#61
Styrene
Concen: 0.182 ppbv m
RT: 12.899 min Scan# 3202
Delta R.T. 0.003 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

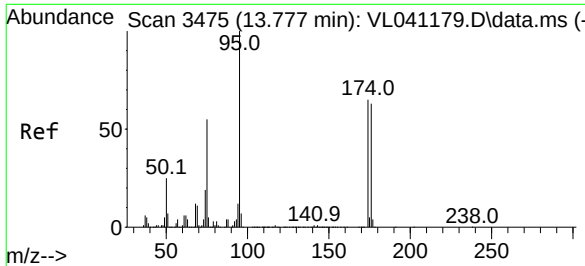
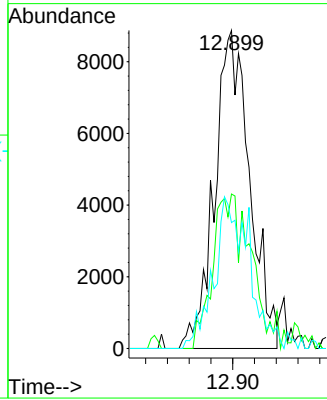
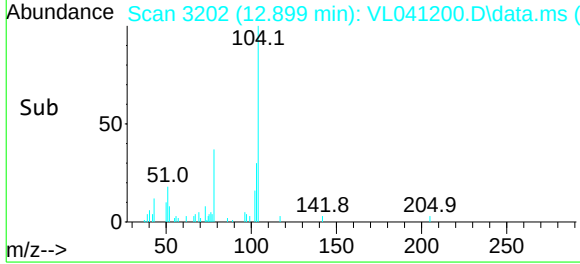
Instrument :
MSVOA_L
ClientSampleId :
BA-20-SS01-20240425



Tgt Ion:	104	Resp:	19849
Ion	Ratio	Lower	Upper
104	100		
78	56.4	42.6	63.8
103	49.1	38.4	57.6

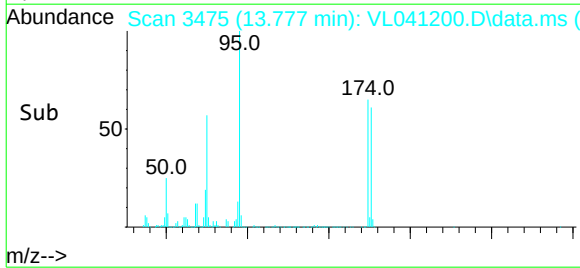
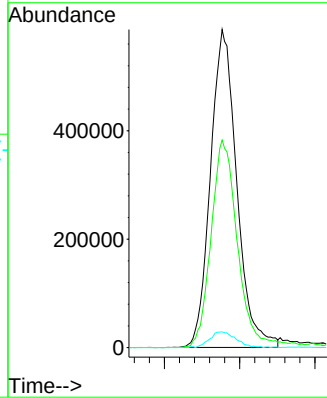
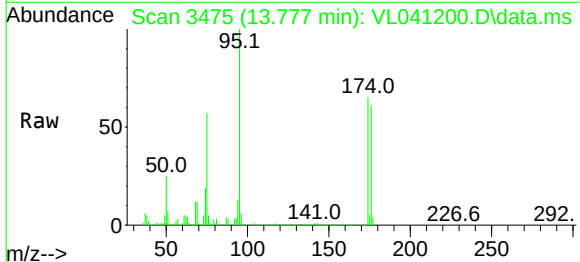
Manual Integrations
APPROVED

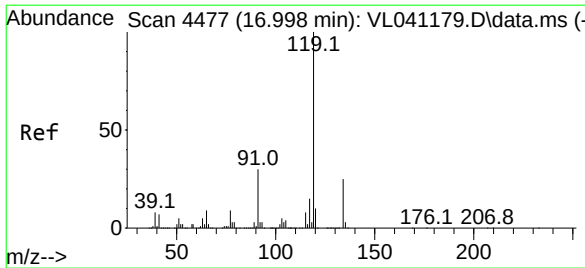
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 9.844 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.003 min
Lab File: VL041200.D
Acq: 2 May 2024 17:58

Tgt Ion:	95	Resp:	1422456
Ion	Ratio	Lower	Upper
95	100		
174	66.1	53.6	80.4
175	5.0	4.2	6.4





#69

p-Isopropyltoluene

Concen: 0.204 ppbv m

RT: 17.002 min Scan# 4477

Delta R.T. 0.010 min

Lab File: VL041200.D

Acq: 2 May 2024 17:58

Instrument :

MSVOA_L

ClientSampleId :

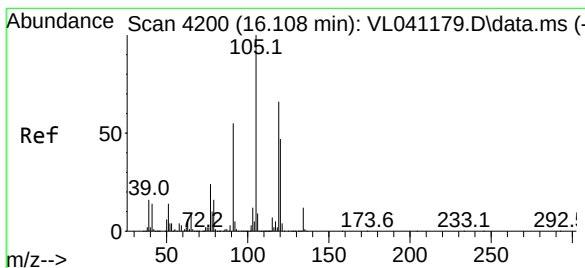
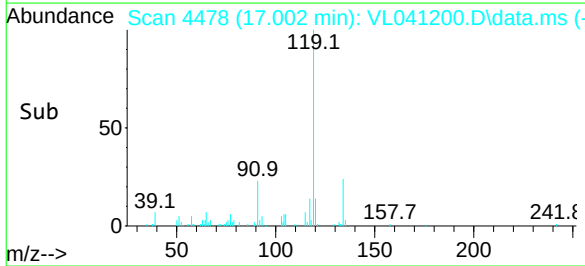
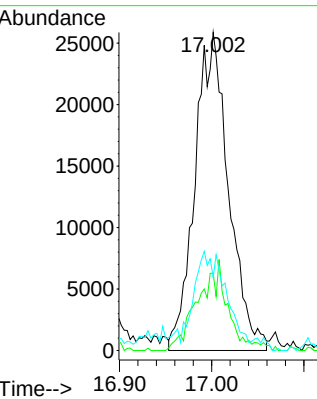
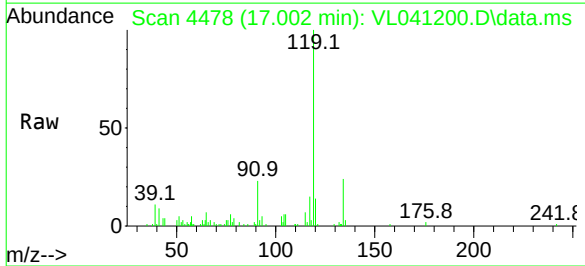
BA-20-SS01-20240425

Tgt Ion:	119	Resp:	65670
Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.1	30.1#
91	33.2	24.2	36.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.170 ppbv m

RT: 16.105 min Scan# 4199

Delta R.T. 0.000 min

Lab File: VL041200.D

Acq: 2 May 2024 17:58

Tgt Ion:	105	Resp:	39415
Ion	Ratio	Lower	Upper
105	100		
120	48.2	37.8	56.6
91	15.2	44.3	66.5#
77	13.8	19.0	28.4#

