

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060524\
 Data File : VL041331.D
 Acq On : 5 Jun 2024 17:32
 Operator : SY/MD
 Sample : P2716-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

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

Quant Time: Jun 06 04:41:23 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M

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

QLast Update : Wed Jun 05 04:42:10 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.214	49	868460	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2212781	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.478	117	2027114	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.786 95 1564765 9.998 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.764	85	51263	0.370	ppbv	97
3) Chlorodifluoromethane	2.710	51	55237m	0.402	ppbv	
4) Chloromethane	2.845	50	54770	1.060	ppbv	96
9) Propene	2.735	41	68947	1.410	ppbv #	73
10) Heptane	7.594	43	41709	0.360	ppbv	97
11) Trichlorofluoromethane	3.591	101	30795	0.242	ppbv	94
13) Ethanol	3.269	45	721129	56.702	ppbv	99
15) Acetone	3.494	43	2154627	21.730	ppbv	99
19) Isopropyl Alcohol	3.607	45	355350m	5.704	ppbv	
20) Methylene Chloride	3.960	84	1160185	32.192	ppbv	97
26) Hexane	5.234	57	1254019	14.216	ppbv #	43
29) Chloroform	5.298	83	64349m	0.475	ppbv	
30) Cyclohexane	6.616	84	97141m	1.359	ppbv	
34) 2-Butanone	4.812	43	214912	2.027	ppbv	100
35) Carbon Tetrachloride	6.510	117	12065m	0.096	ppbv	
36) Benzene	6.391	78	57213	0.334	ppbv	96
41) Tetrahydrofuran	5.581	42	27959m	0.405	ppbv	
44) 2,2,4-Trimethylpentane	7.343	57	88711m	0.301	ppbv	
52) Tetrachloroethene	10.619	164	3990m	0.064	ppbv	
53) Toluene	9.233	91	523695	2.655	ppbv	99
58) Ethyl Benzene	12.098	91	52805	0.203	ppbv	97
59) m/p-Xylene	12.352	91	192936m	0.867	ppbv	
60) o-Xylene	13.072	91	76204m	0.359	ppbv	
74) 1,2,4-Trimethylbenzene	16.117	105	55282m	0.228	ppbv	

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

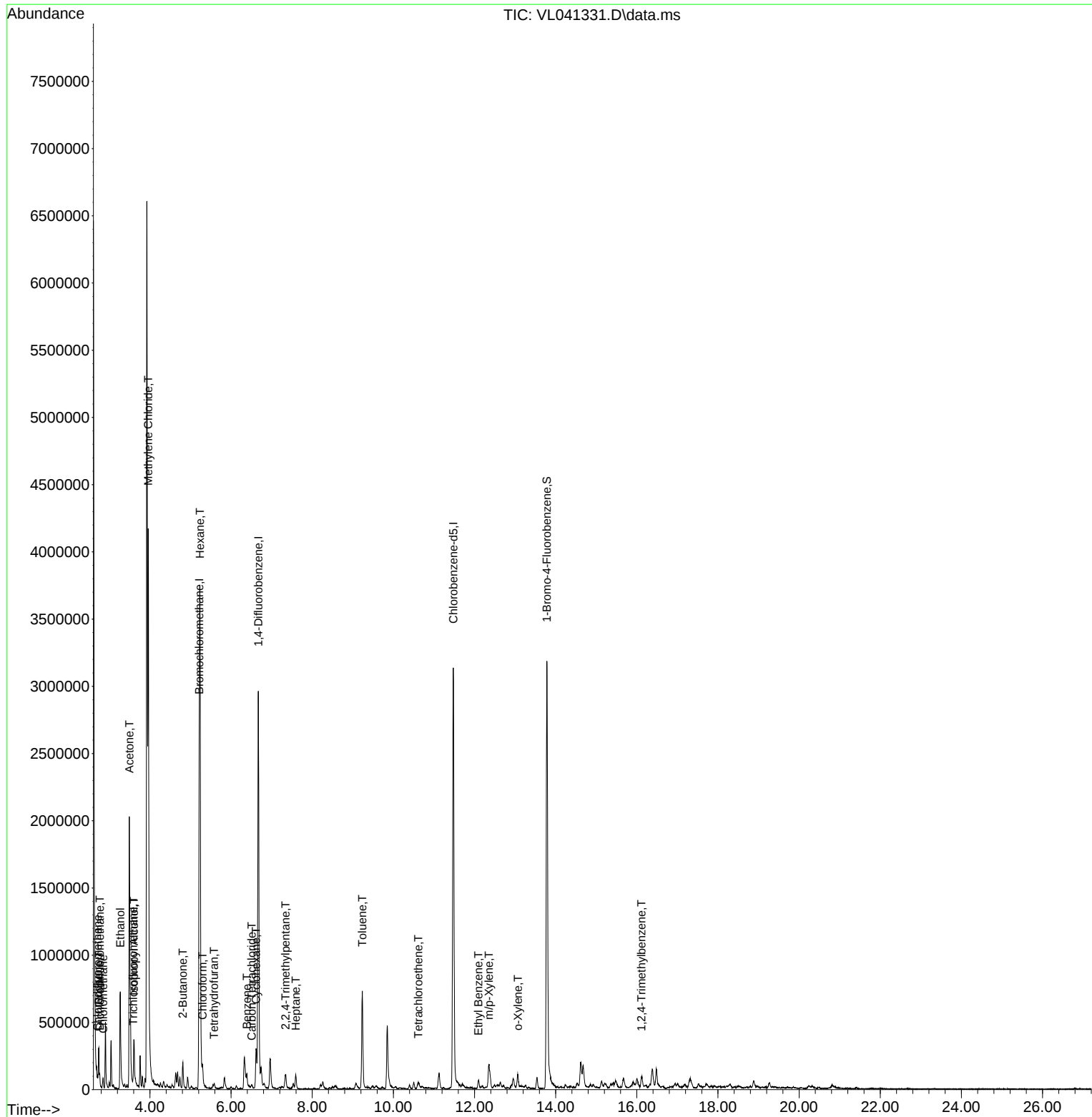
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060524\
Data File : VL041331.D
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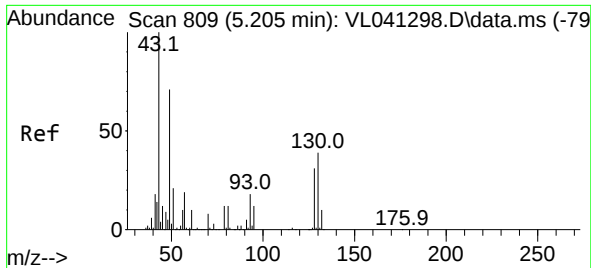
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Jun 06 04:41:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jun 05 04:42:10 2024
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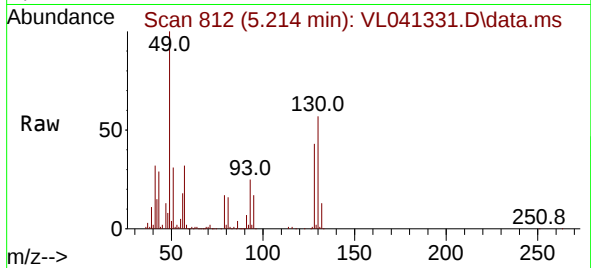
Reviewed By : Semsettin Yesilyurt 06/06/2024
Supervised By : Mahesh Dadoda 06/06/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.214 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

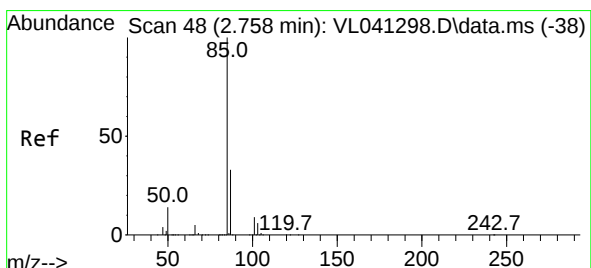
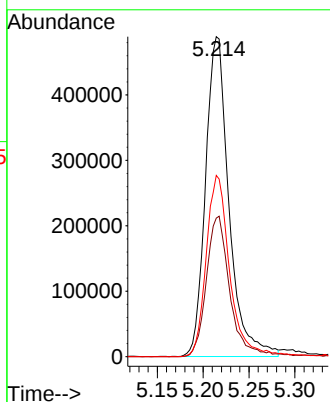
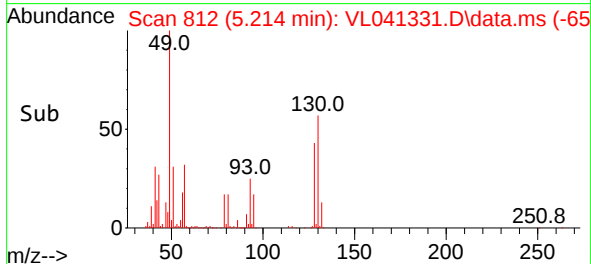
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 49 Resp: 868460
Ion Ratio Lower Upper
49 100
128 44.7 22.8 68.3
130 57.3 28.4 85.3

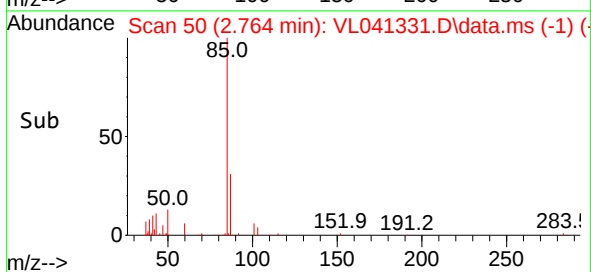
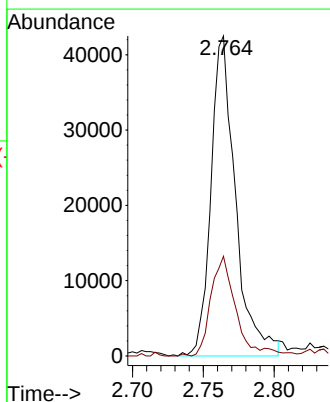
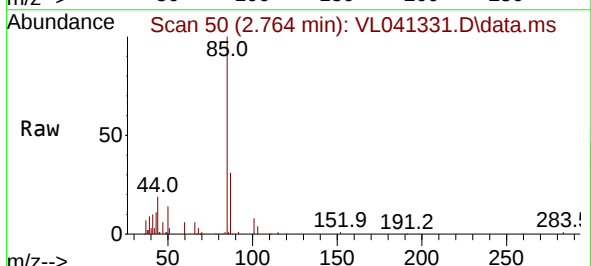
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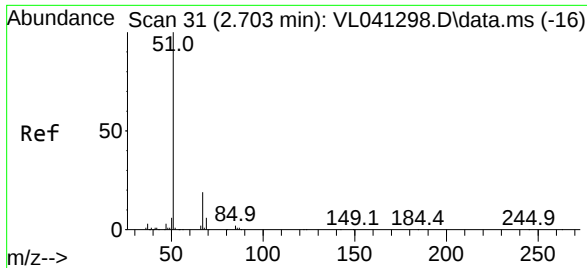
Reviewed By :Semsettin Yesilyurt 06/06/2024
Supervised By :Mahesh Dadoda 06/06/2024



#2
Dichlorodifluoromethane
Concen: 0.370 ppbv
RT: 2.764 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

Tgt Ion: 85 Resp: 51263
Ion Ratio Lower Upper
85 100
87 31.1 26.5 39.7





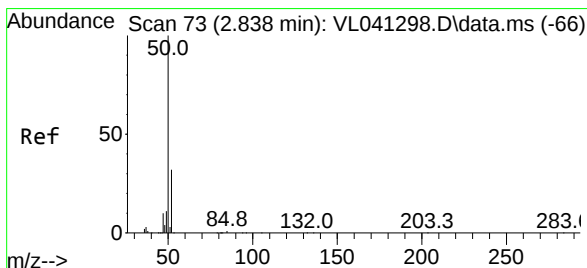
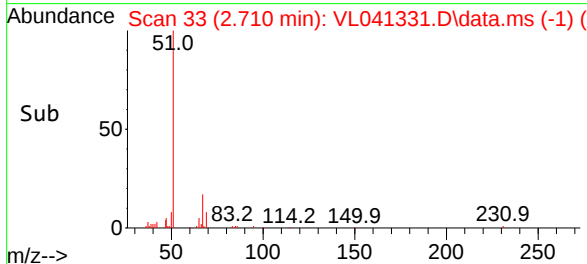
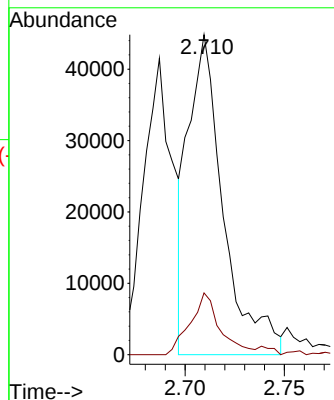
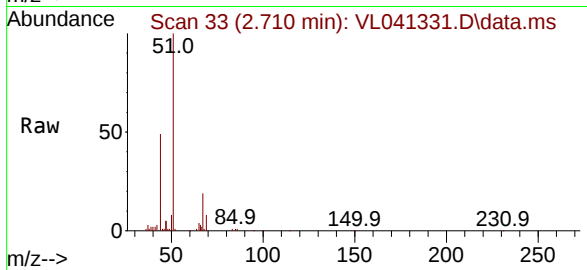
#3
Chlorodifluoromethane
Concen: 0.402 ppbv m
RT: 2.710 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 51 Resp: 5523
Ion Ratio Lower Upper
51 100
67 18.3 14.7 22.1

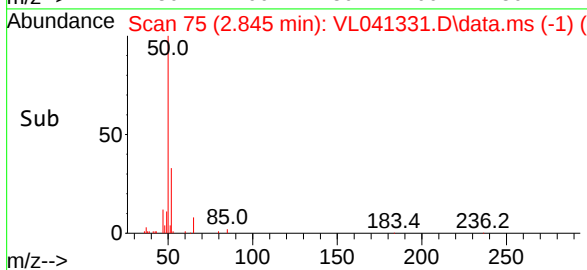
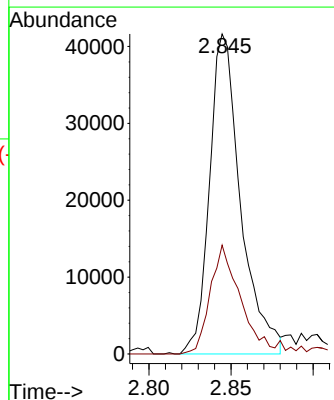
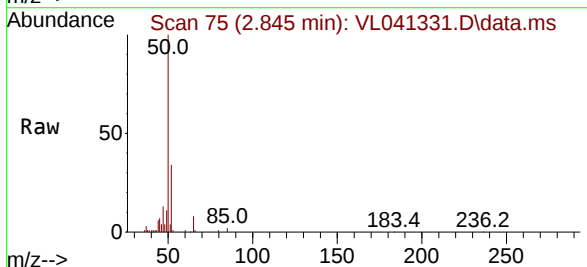
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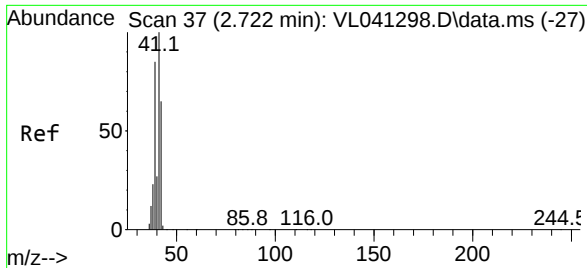
Reviewed By :Semsettin Yesilyurt 06/06/2024
Supervised By :Mahesh Dadoda 06/06/2024



#4
Chloromethane
Concen: 1.060 ppbv
RT: 2.845 min Scan# 75
Delta R.T. 0.006 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

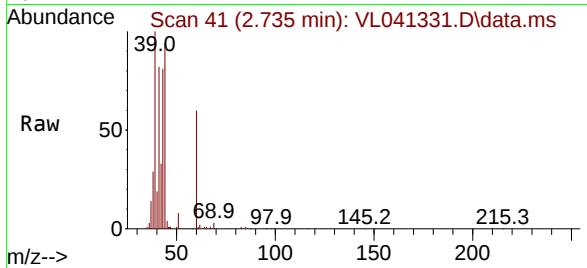
Tgt Ion: 50 Resp: 54770
Ion Ratio Lower Upper
50 100
52 34.0 25.6 38.4





#9
Propene
Concen: 1.410 ppbv
RT: 2.735 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

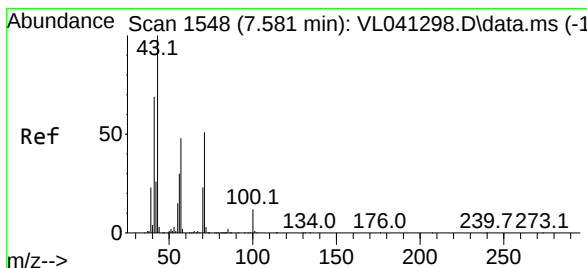
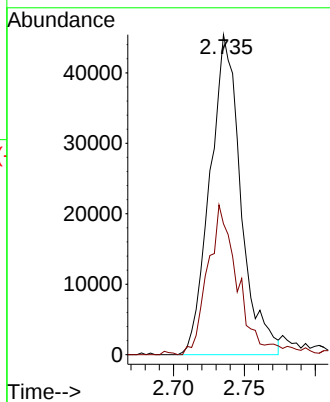
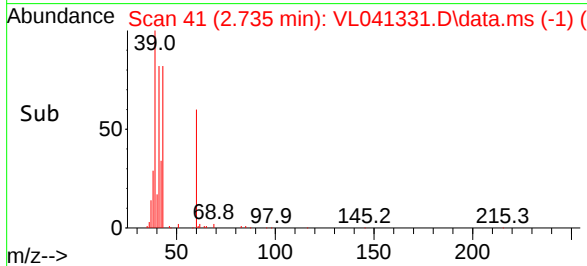
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 41 Resp: 6894
Ion Ratio Lower Upper
41 100
42 47.3 55.2 82.8

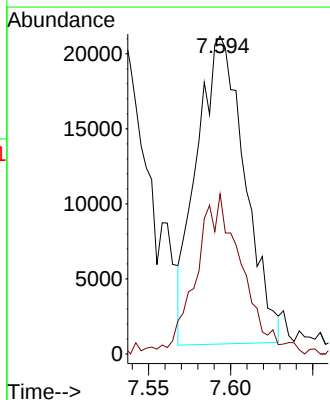
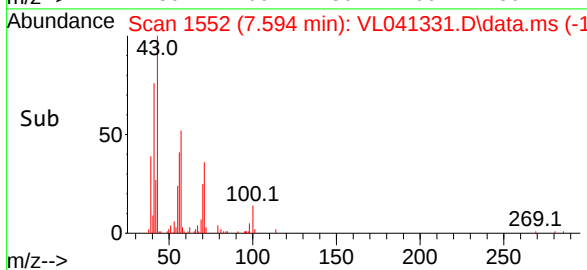
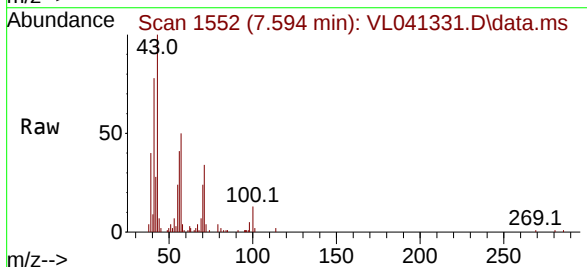
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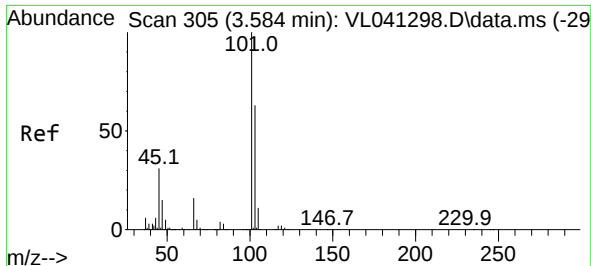
Reviewed By :Semsettin Yesilyurt 06/06/2024
Supervised By :Mahesh Dadoda 06/06/2024



#10
Heptane
Concen: 0.360 ppbv
RT: 7.594 min Scan# 1552
Delta R.T. 0.013 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

Tgt Ion: 43 Resp: 41709
Ion Ratio Lower Upper
43 100
57 50.6 39.0 58.4





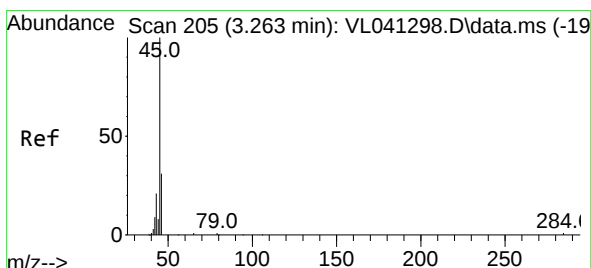
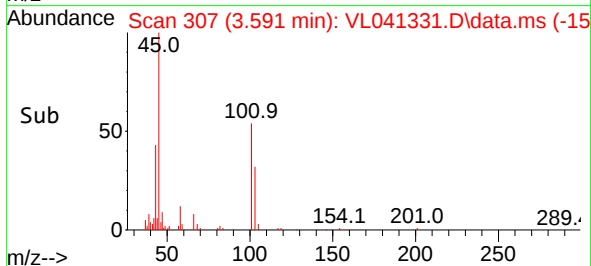
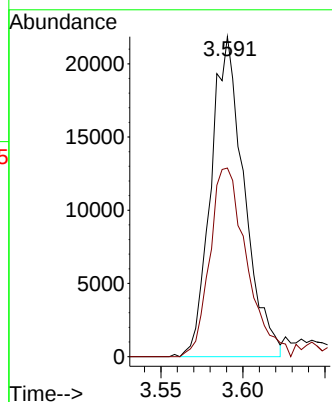
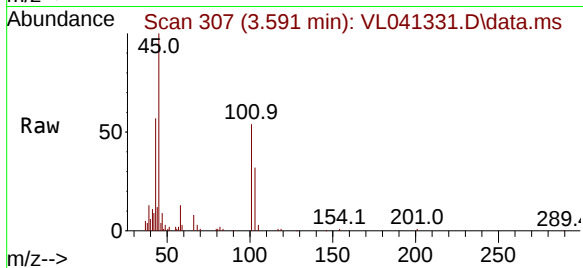
#11
Trichlorofluoromethane
Concen: 0.242 ppbv
RT: 3.591 min Scan# 307
Delta R.T. 0.006 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion:101 Resp: 30795
Ion Ratio Lower Upper
101 100
103 59.0 50.6 76.0

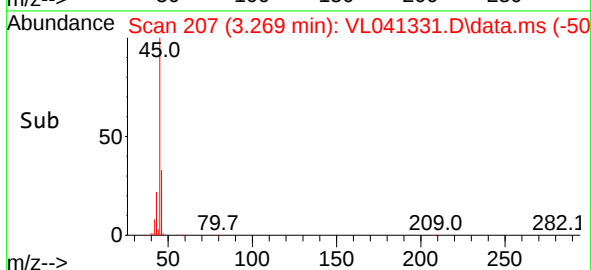
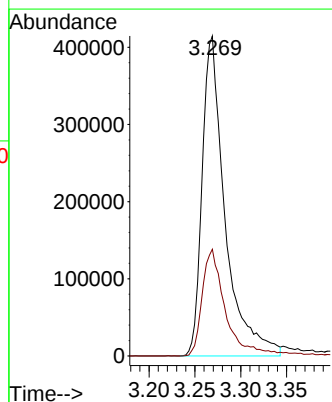
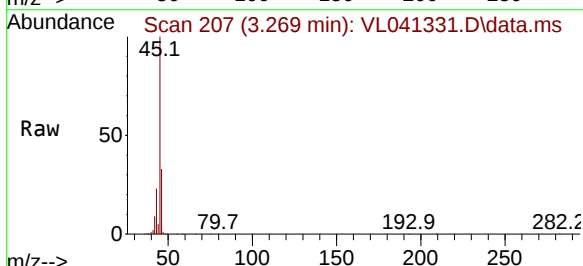
Manual Integrations
APPROVED

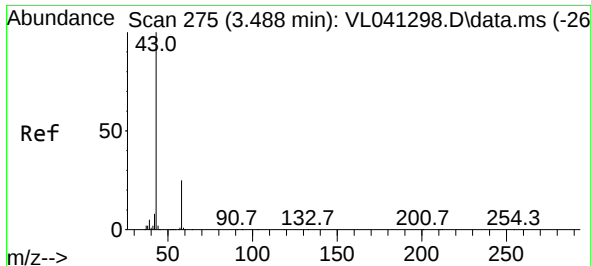
Reviewed By :Semsettin Yesilyurt 06/06/2024
Supervised By :Mahesh Dadoda 06/06/2024



#13
Ethanol
Concen: 56.702 ppbv
RT: 3.269 min Scan# 207
Delta R.T. 0.006 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

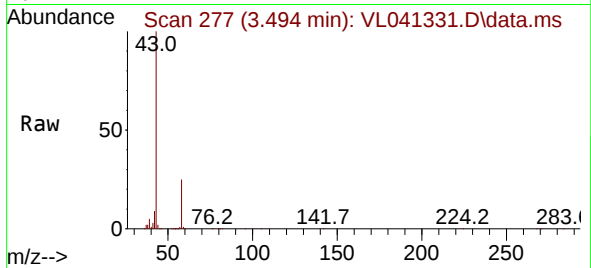
Tgt Ion: 45 Resp: 721129
Ion Ratio Lower Upper
45 100
46 34.9 14.2 56.6





#15
Acetone
Concen: 21.730 ppbv
RT: 3.494 min Scan# 215
Delta R.T. 0.006 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

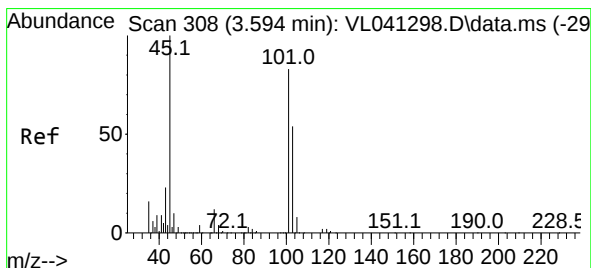
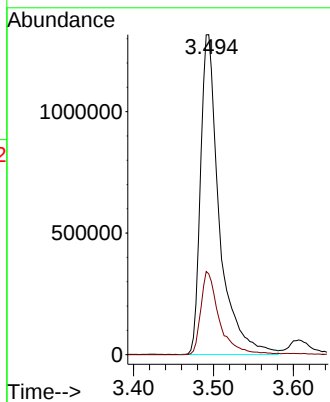
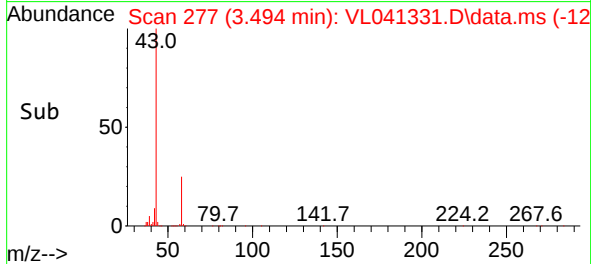
Instrument :
MSVOA_L
ClientSampleId :
IA2



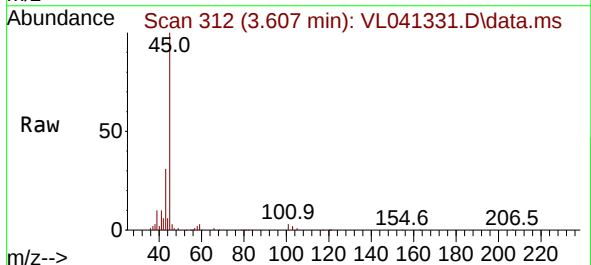
Tgt Ion: 43 Resp: 215462
Ion Ratio Lower Upper
43 100
58 26.5 20.6 31.0

Manual Integrations
APPROVED

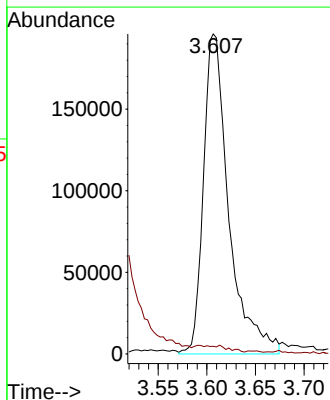
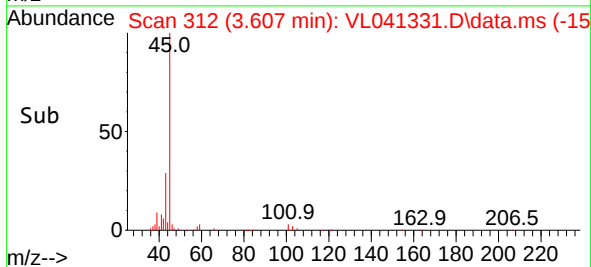
Reviewed By :Semsettin Yesilyurt 06/06/2024
Supervised By :Mahesh Dadoda 06/06/2024

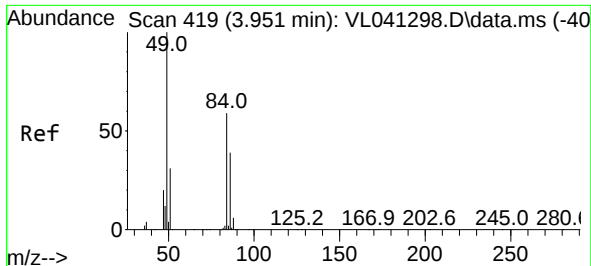


#19
Isopropyl Alcohol
Concen: 5.704 ppbv m
RT: 3.607 min Scan# 312
Delta R.T. 0.013 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32



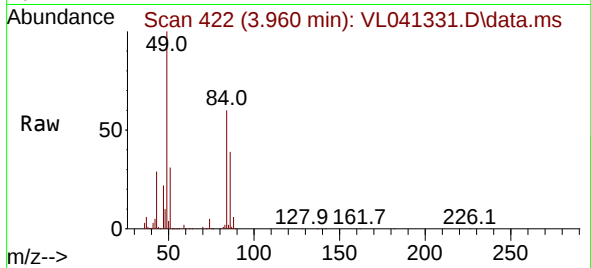
Tgt Ion: 45 Resp: 355350
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2#





#20
Methylene Chloride
Concen: 32.192 ppbv
RT: 3.960 min Scan# 419
Delta R.T. 0.010 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

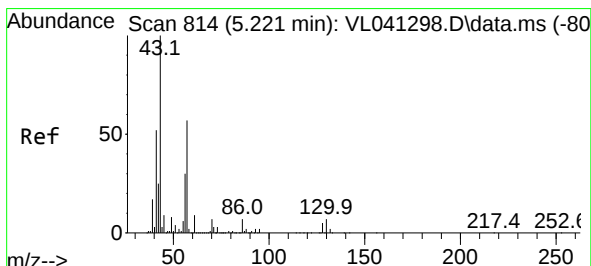
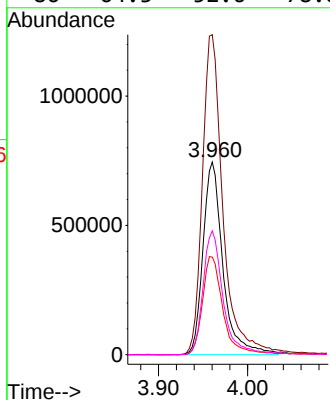
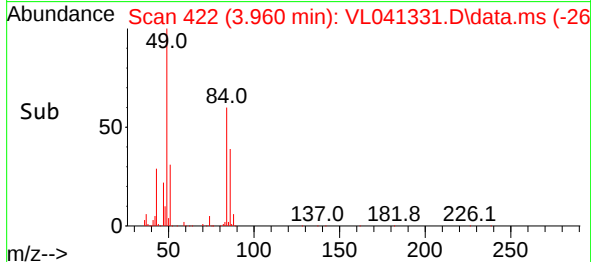
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 84 Resp: 1160185
Ion Ratio Lower Upper
84 100
49 166.1 136.2 204.2
51 50.7 41.9 62.9
86 64.3 52.6 78.8

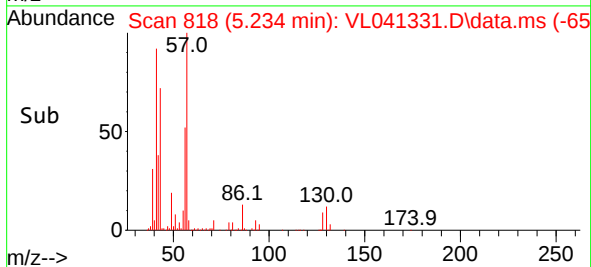
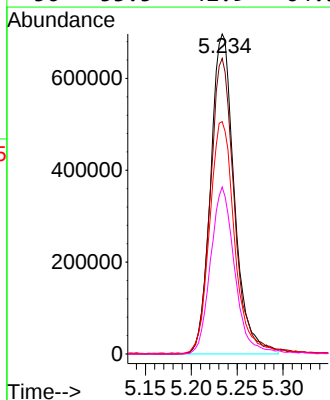
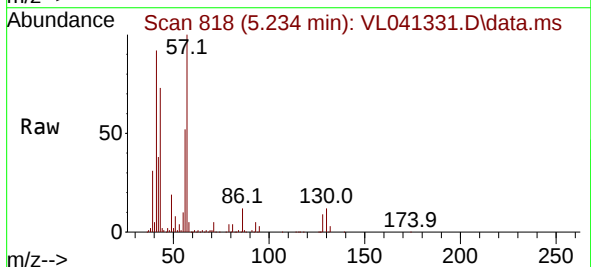
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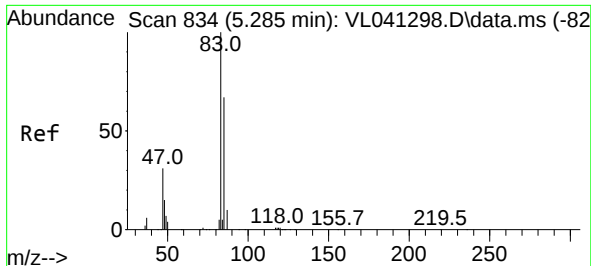
Reviewed By :Semsettin Yesilyurt 06/06/2024
Supervised By :Mahesh Dadoda 06/06/2024



#26
Hexane
Concen: 14.216 ppbv
RT: 5.234 min Scan# 818
Delta R.T. 0.013 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

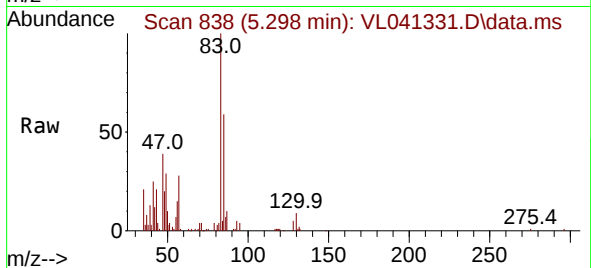
Tgt Ion: 57 Resp: 1254019
Ion Ratio Lower Upper
57 100
41 94.7 77.1 115.7
43 76.5 186.1 279.1#
56 53.5 42.9 64.3





#29
Chloroform
Concen: 0.475 ppbv m
RT: 5.298 min Scan# 834
Delta R.T. 0.013 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

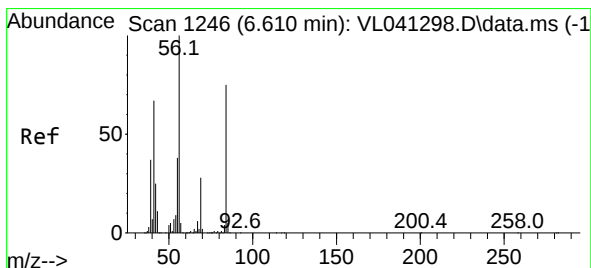
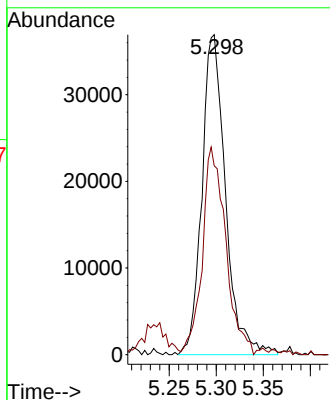
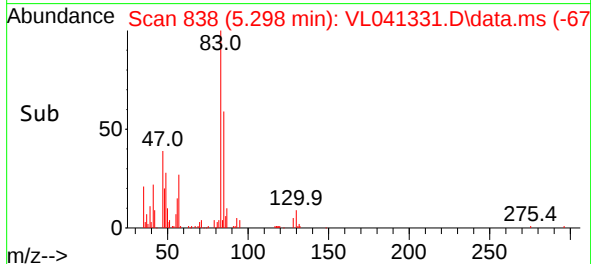
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 83 Resp: 64349
Ion Ratio Lower Upper
83 100
85 59.1 53.3 79.9

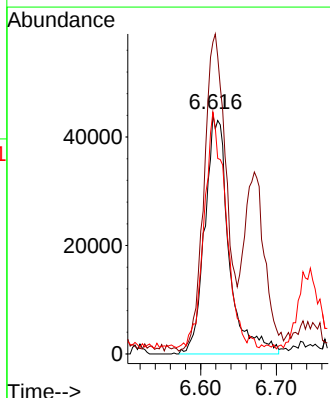
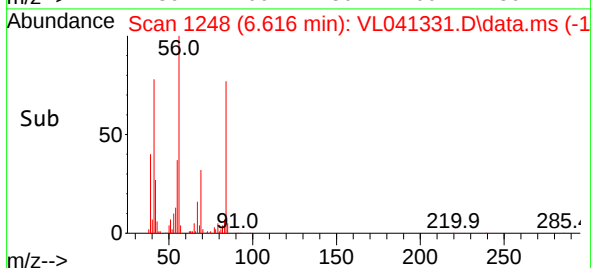
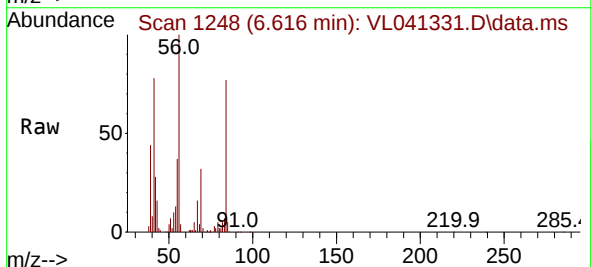
Manual Integrations
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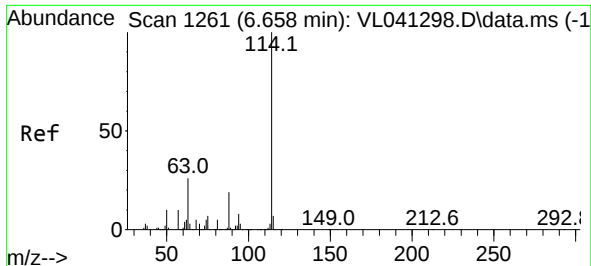
Reviewed By :Semsettin Yesilyurt 06/06/2024
Supervised By :Mahesh Dadoda 06/06/2024



#30
Cyclohexane
Concen: 1.359 ppbv m
RT: 6.616 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

Tgt Ion: 84 Resp: 97141
Ion Ratio Lower Upper
84 100
56 123.1 114.9 172.3
41 0.0 74.4 111.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 1

Delta R.T. 0.013 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion:114 Resp: 221278

Ion Ratio Lower Upper

114 100

63 26.3 20.6 30.8

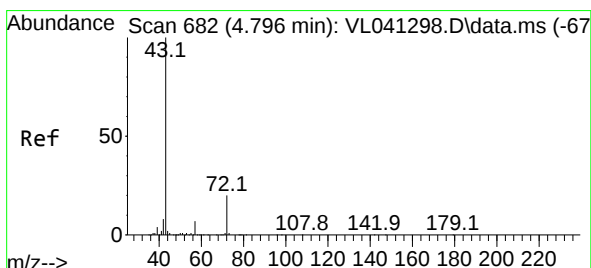
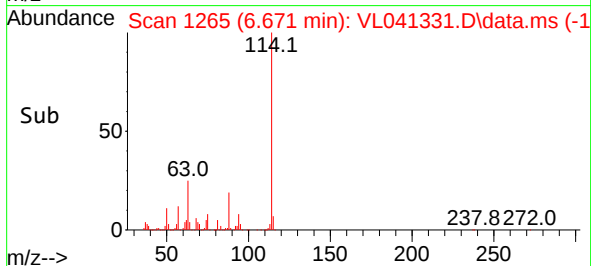
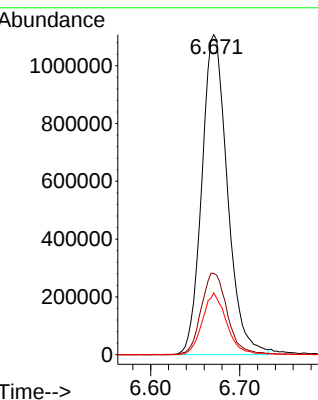
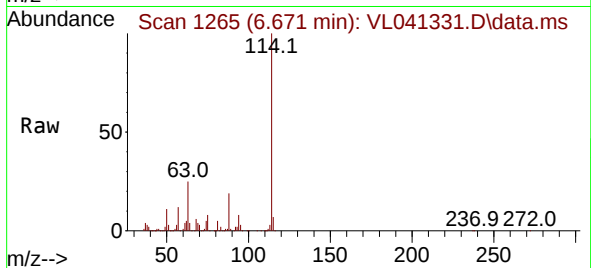
88 18.4 14.5 21.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/06/2024

Supervised By :Mahesh Dadoda 06/06/2024



#34

2-Butanone

Concen: 2.027 ppbv

RT: 4.812 min Scan# 687

Delta R.T. 0.016 min

Lab File: VL041331.D

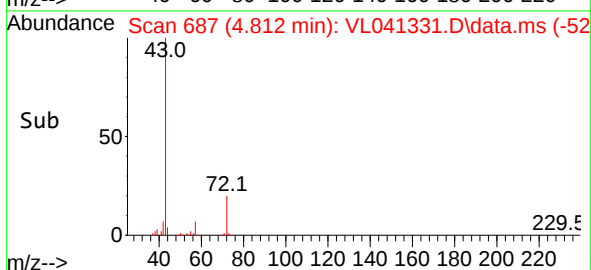
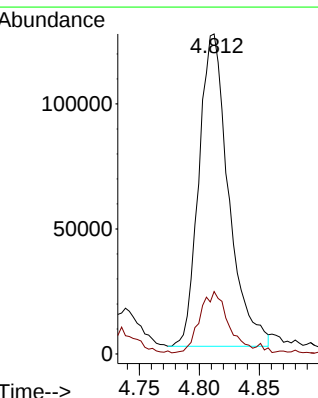
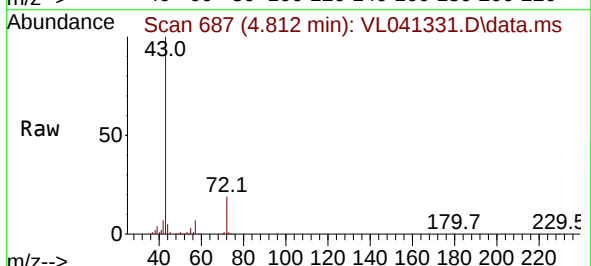
Acq: 5 Jun 2024 17:32

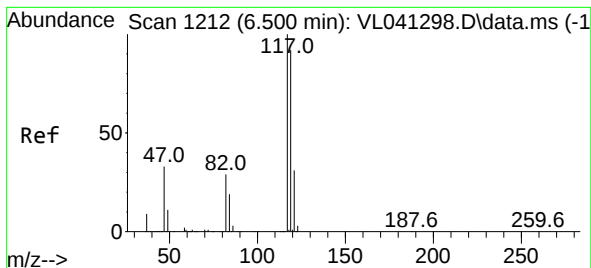
Tgt Ion: 43 Resp: 214912

Ion Ratio Lower Upper

43 100

72 21.5 17.4 26.0





#35

Carbon Tetrachloride

Concen: 0.096 ppbv m

RT: 6.510 min Scan# 117

Delta R.T. 0.010 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

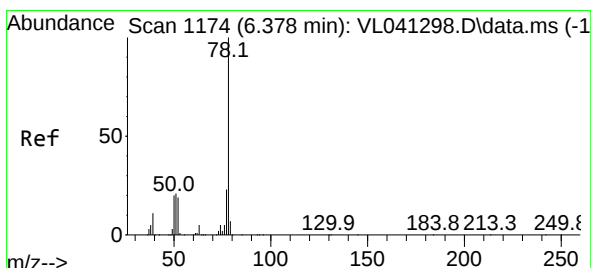
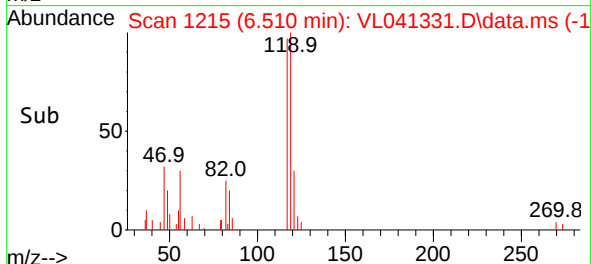
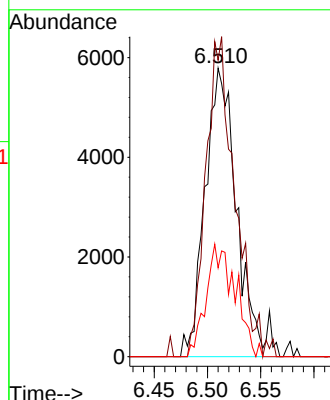
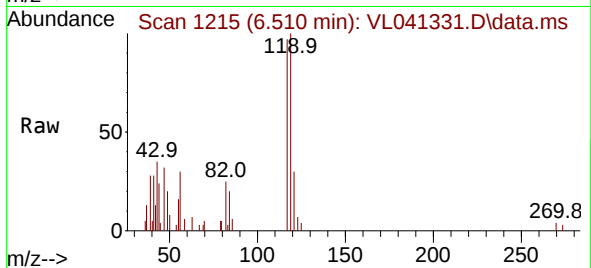
IA2

Tgt Ion:	117	Resp:	1206
Ion	Ratio	Lower	Upper
117	100		
119	102.8	74.0	111.0
121	30.8	24.8	37.2

Manual Integrations

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



#36

Benzene

Concen: 0.334 ppbv

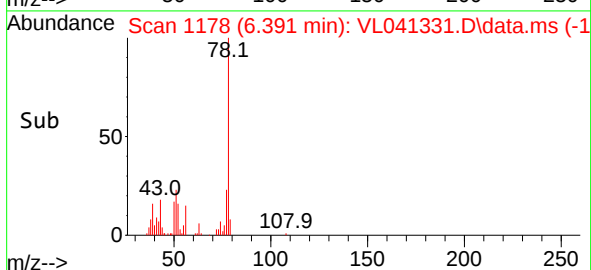
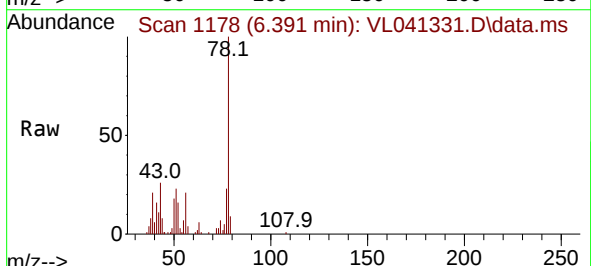
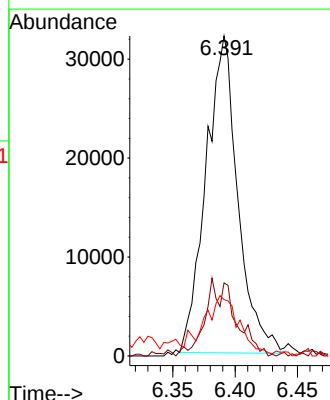
RT: 6.391 min Scan# 1178

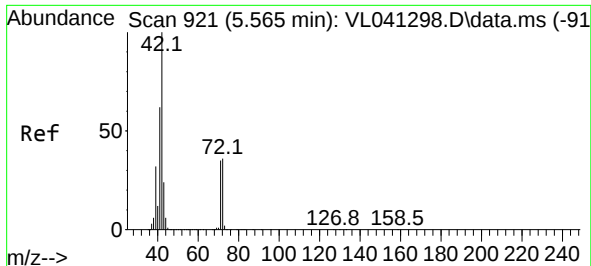
Delta R.T. 0.013 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

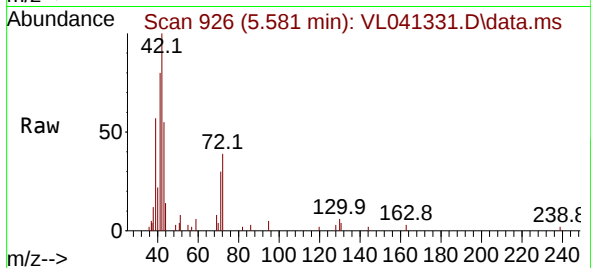
Tgt Ion:	78	Resp:	57213
Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.6	28.0
50	16.6	16.0	24.0





#41
Tetrahydrofuran
Concen: 0.405 ppbv m
RT: 5.581 min Scan# 91
Delta R.T. 0.016 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

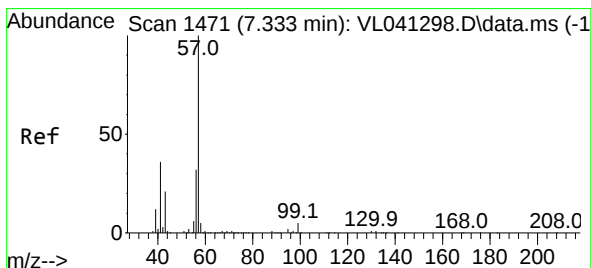
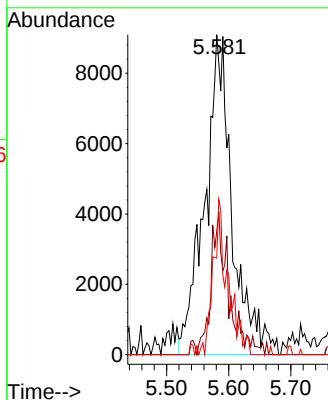
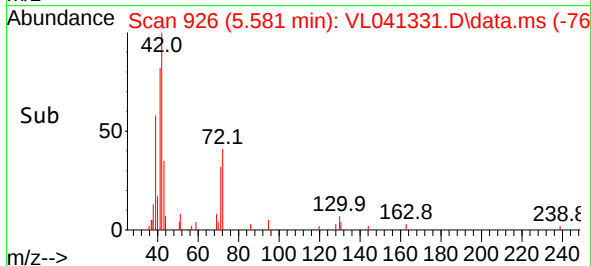
Instrument :
MSVOA_L
ClientSampleId :
IA2



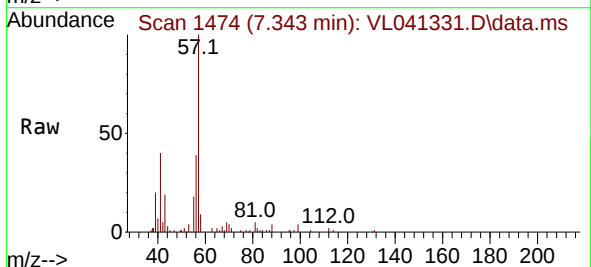
Tgt Ion: 42 Resp: 2795
Ion Ratio Lower Upper
42 100
72 29.9 30.2 45.4#
71 26.5 30.3 45.5#

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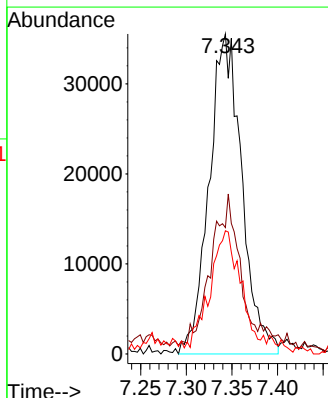
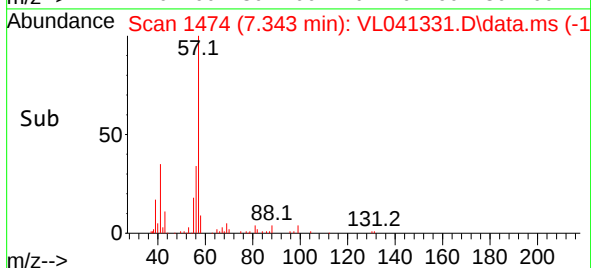
Reviewed By :Semsettin Yesilyurt 06/06/2024
Supervised By :Mahesh Dadoda 06/06/2024

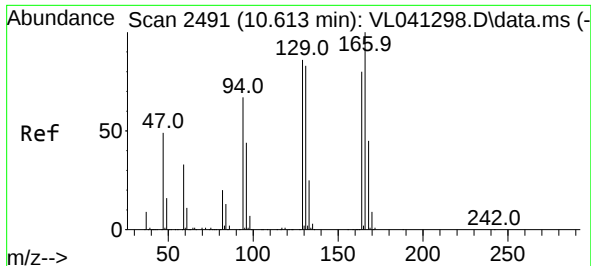


#44
2,2,4-Trimethylpentane
Concen: 0.301 ppbv m
RT: 7.343 min Scan# 1474
Delta R.T. 0.010 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32



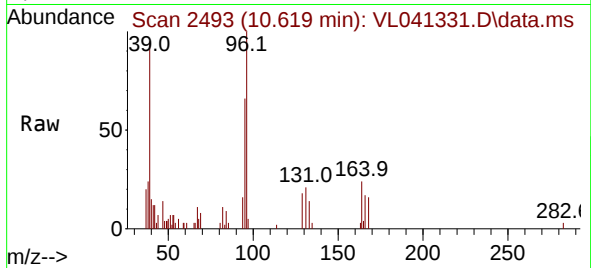
Tgt Ion: 57 Resp: 88711
Ion Ratio Lower Upper
57 100
41 48.0 29.4 44.2#
56 0.0 25.0 37.4#





#52
Tetrachloroethene
Concen: 0.064 ppbv m
RT: 10.619 min Scan# 2491
Delta R.T. 0.006 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

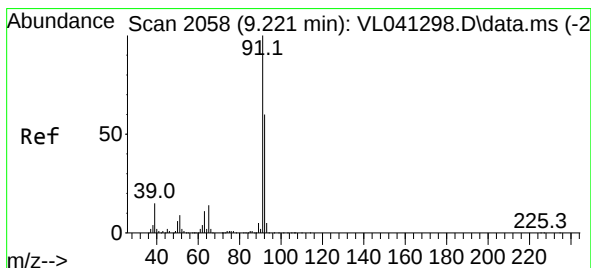
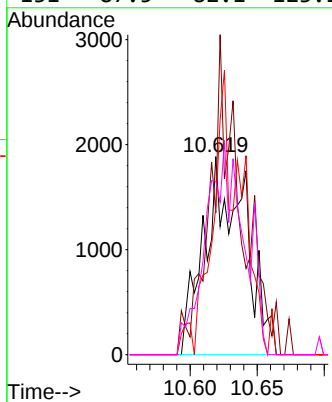
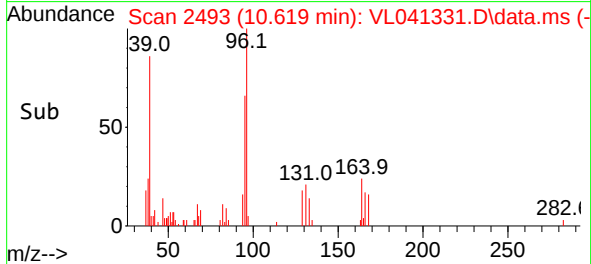
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:164 Resp: 3990
Ion Ratio Lower Upper
164 100
166 71.5 99.4 149.0
129 74.0 85.4 128.2
131 87.5 82.1 123.1

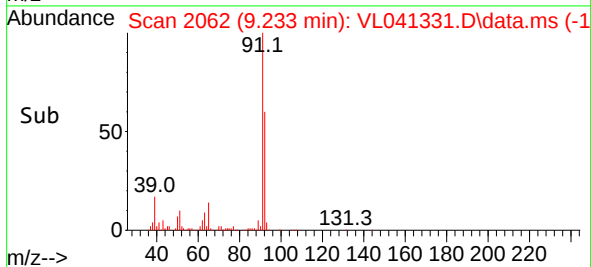
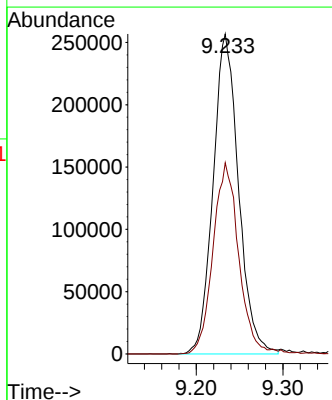
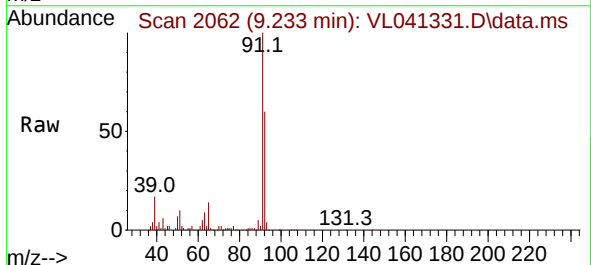
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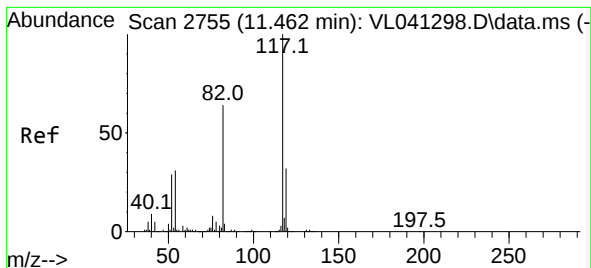
Reviewed By :Semsettin Yesilyurt 06/06/2024
Supervised By :Mahesh Dadoda 06/06/2024



#53
Toluene
Concen: 2.655 ppbv
RT: 9.233 min Scan# 2062
Delta R.T. 0.013 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

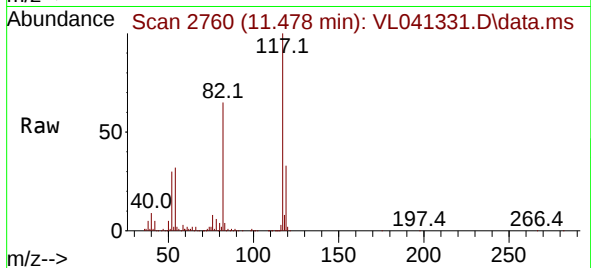
Tgt Ion: 91 Resp: 523695
Ion Ratio Lower Upper
91 100
92 60.7 49.2 73.8





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

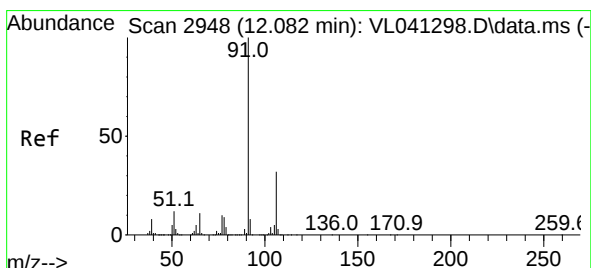
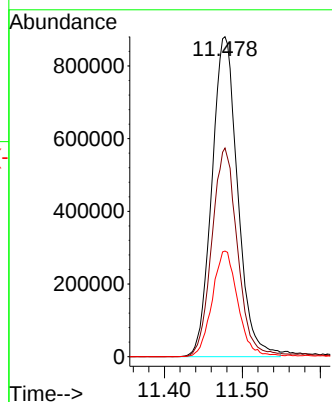
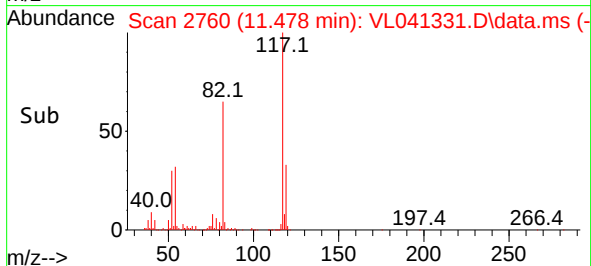
Instrument :
MSVOA_L
ClientSampleId :
IA2



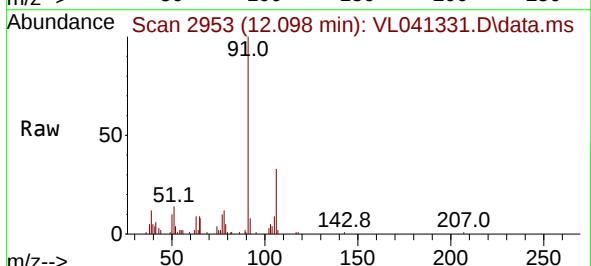
Tgt Ion:117 Resp: 2027114
Ion Ratio Lower Upper
117 100
82 65.9 52.3 78.5
119 33.6 26.2 39.2

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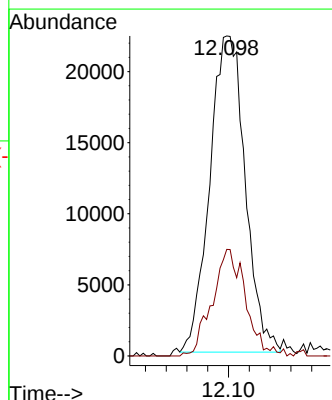
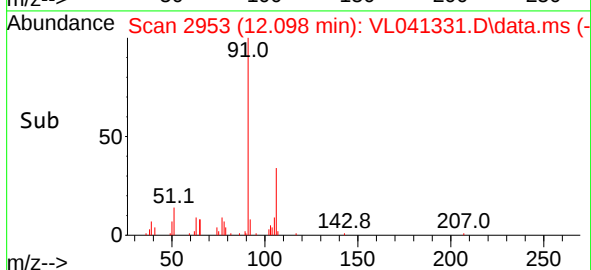
Reviewed By :Semsettin Yesilyurt 06/06/2024
Supervised By :Mahesh Dadoda 06/06/2024

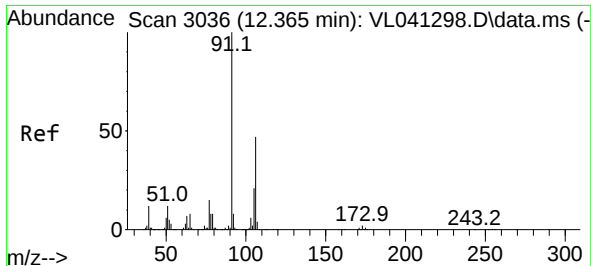


#58
Ethyl Benzene
Concen: 0.203 ppbv
RT: 12.098 min Scan# 2953
Delta R.T. 0.016 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32



Tgt Ion: 91 Resp: 52805
Ion Ratio Lower Upper
91 100
106 33.7 25.5 38.3





#59

m/p-Xylene

Concen: 0.867 ppbv m

RT: 12.352 min Scan# 3036

Delta R.T. -0.013 min

Lab File: VL041331.D

Acq: 5 Jun 2024 17:32

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 91 Resp: 192930

Ion Ratio Lower Upper

91 100

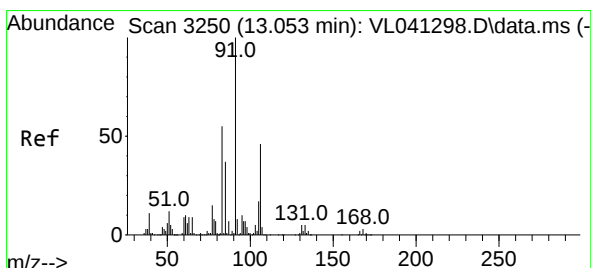
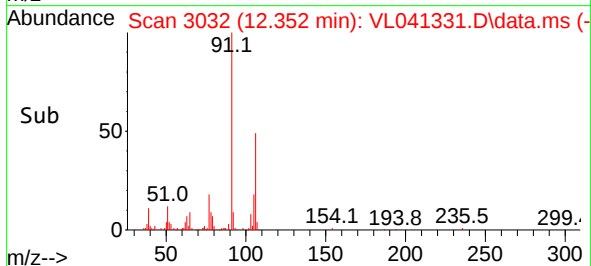
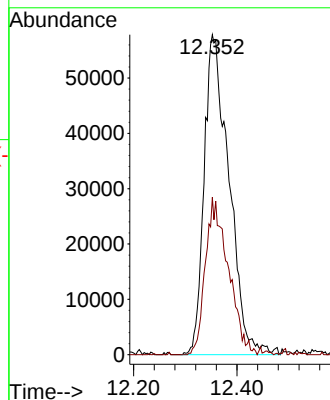
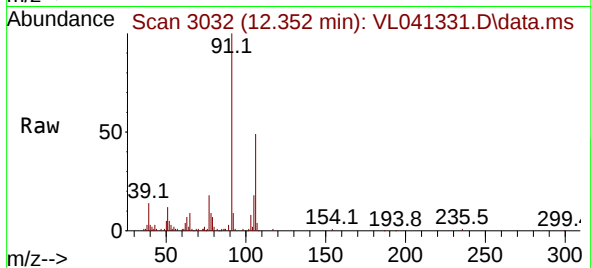
106 0.0 35.7 53.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/06/2024

Supervised By :Mahesh Dadoda 06/06/2024



#60

o-Xylene

Concen: 0.359 ppbv m

RT: 13.072 min Scan# 3256

Delta R.T. 0.019 min

Lab File: VL041331.D

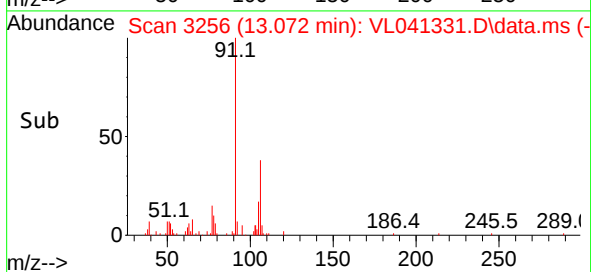
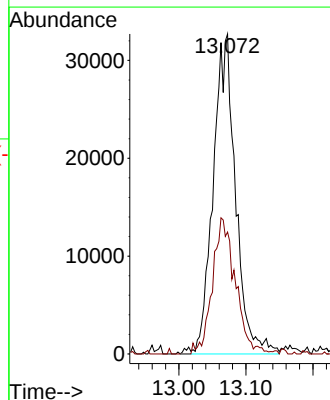
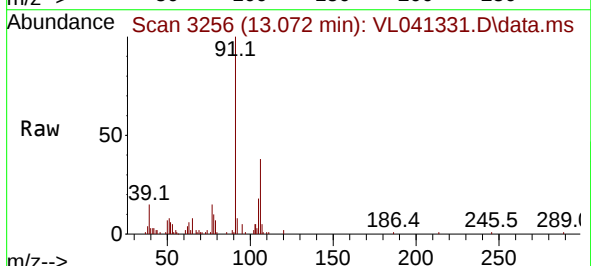
Acq: 5 Jun 2024 17:32

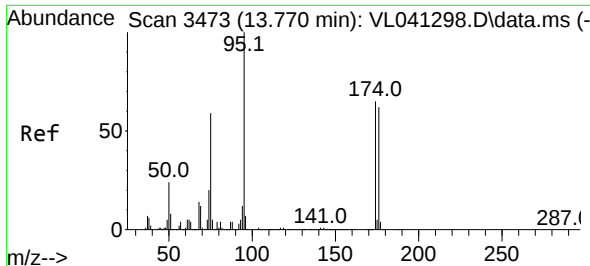
Tgt Ion: 91 Resp: 76204

Ion Ratio Lower Upper

91 100

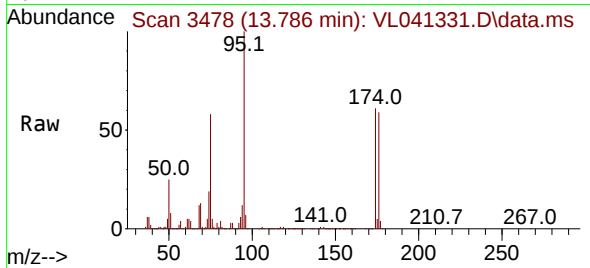
106 0.0 22.8 68.4#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.998 ppbv
RT: 13.786 min Scan# 3473
Delta R.T. 0.016 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32

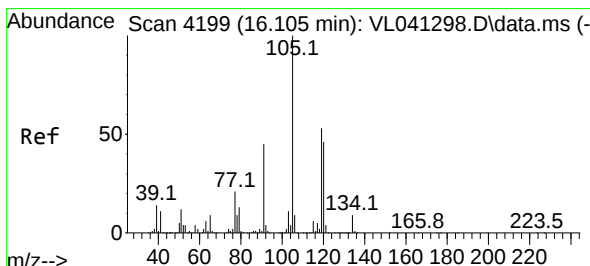
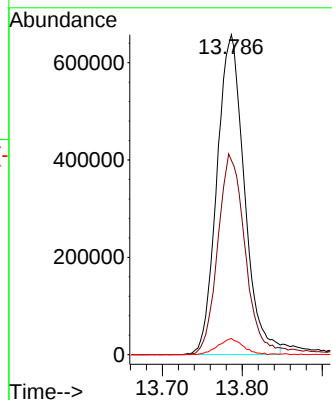
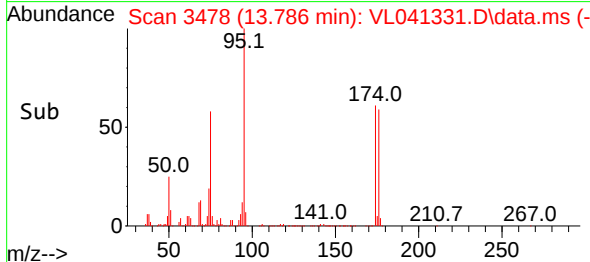
Instrument :
MSVOA_L
ClientSampleId :
IA2



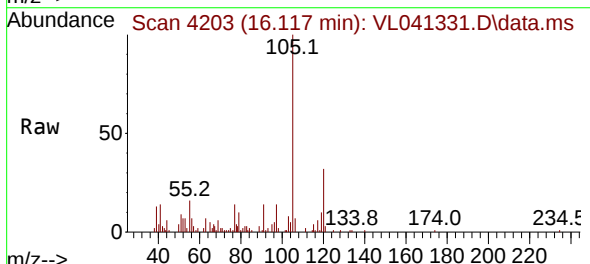
Tgt Ion: 95 Resp: 156476
Ion Ratio Lower Upper
95 100
174 65.2 52.2 78.2
175 4.9 4.1 6.1

Manual Integrations
APPROVED

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



#74
1,2,4-Trimethylbenzene
Concen: 0.228 ppbv m
RT: 16.117 min Scan# 4203
Delta R.T. 0.013 min
Lab File: VL041331.D
Acq: 5 Jun 2024 17:32



Tgt Ion:105 Resp: 55282
Ion Ratio Lower Upper
105 100
120 31.8 37.0 55.6#
91 14.0 36.2 54.4#
77 14.2 16.6 24.8#

