

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102523\
 Data File : VL040797.D
 Acq On : 25 Oct 2023 12:45
 Operator : SY/MD
 Sample : 05024-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/26/2023
 Supervised By :Mahesh Dadoda 10/26/2023

Quant Time: Oct 26 03:51:24 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

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

QLast Update : Thu Oct 12 00:21:08 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	874746	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.642	114	2370137	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.446	117	2147785	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	1665628	10.539	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.742	85	50349	0.327	ppbv	99
4) Chloromethane	2.825	50	29863	0.588	ppbv	91
9) Propene	2.719	41	31682	0.664	ppbv #	74
11) Trichlorofluoromethane	3.568	101	38464	0.324	ppbv	94
13) Ethanol	3.243	45	1066525	98.948	ppbv	99
15) Acetone	3.472	43	1048533	11.595	ppbv	100
19) Isopropyl Alcohol	3.581	45	724087	12.438	ppbv #	40
20) Methylene Chloride	3.935	84	384267	10.201	ppbv	99
26) Hexane	5.208	57	215025	2.375	ppbv #	68
29) Chloroform	5.269	83	43324	0.331	ppbv	98
34) 2-Butanone	4.787	43	74266	0.692	ppbv	94
35) Carbon Tetrachloride	6.481	117	16257m	0.122	ppbv	
36) Benzene	6.359	78	29293	0.161	ppbv #	93
52) Tetrachloroethene	10.600	164	9267m	0.125	ppbv	
53) Toluene	9.201	91	75532m	0.348	ppbv	
58) Ethyl Benzene	12.063	91	26009m	0.096	ppbv	
59) m/p-Xylene	12.327	91	58682m	0.264	ppbv	
60) o-Xylene	13.037	91	25426	0.120	ppbv	100

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

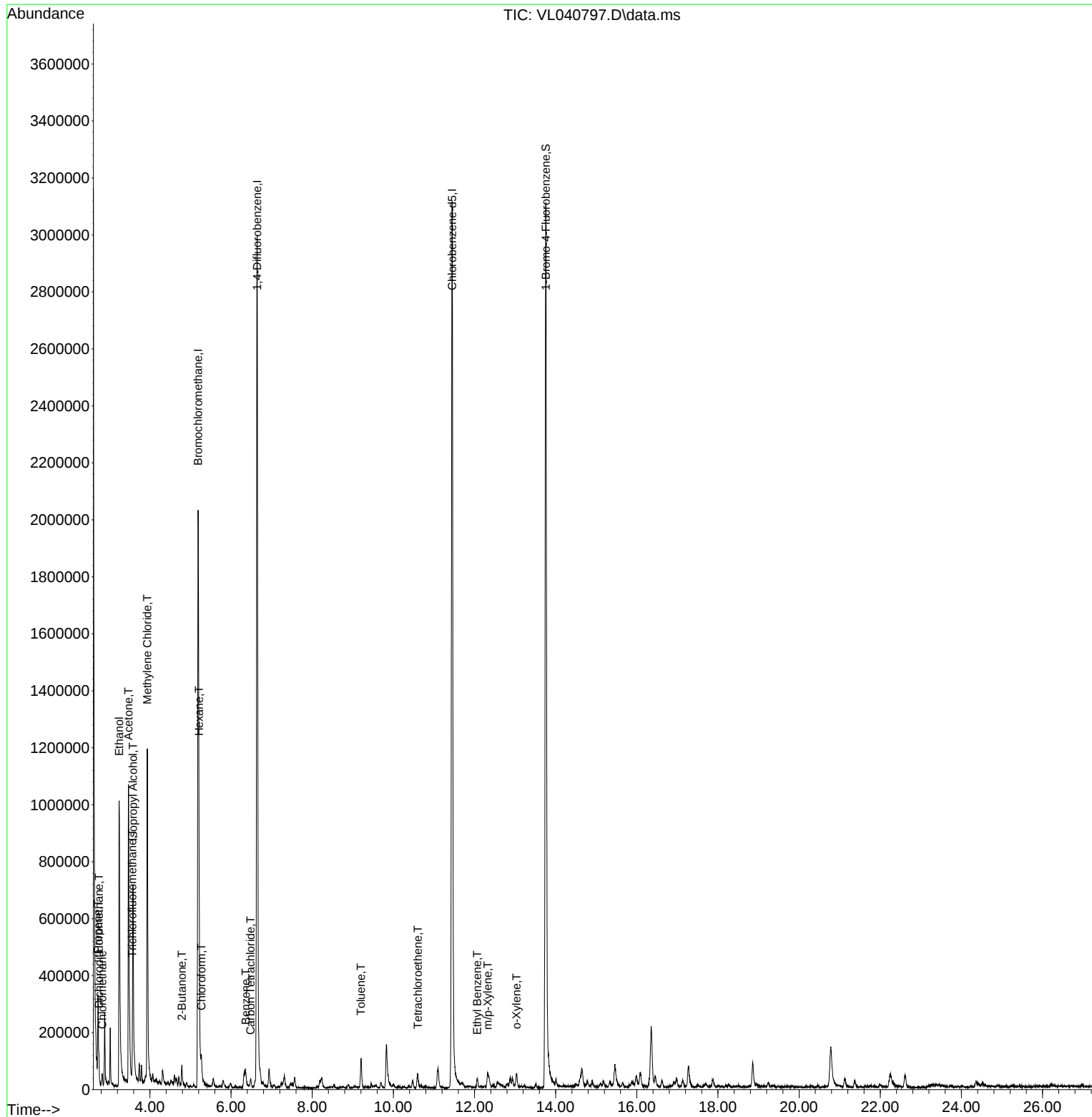
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102523\
Data File : VL040797.D
Acq On : 25 Oct 2023 12:45
Operator : SY/MD
Sample : 05024-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

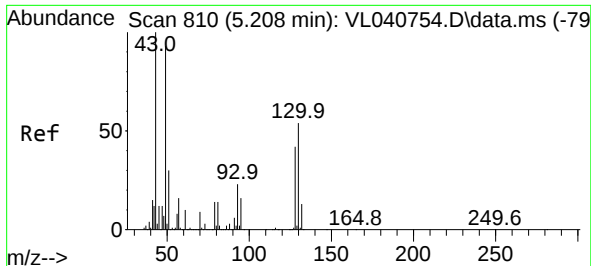
Instrument :
MSVOA_L
ClientSampleId :
IA-2

Quant Time: Oct 26 03:51:24 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Oct 12 00:21:08 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

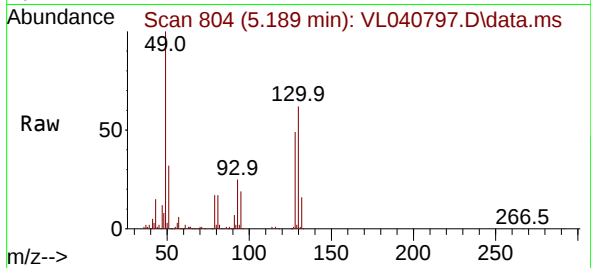
Reviewed By : Semsettin Yesilyurt 10/26/2023
Supervised By : Mahesh Dadoda 10/26/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.019 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

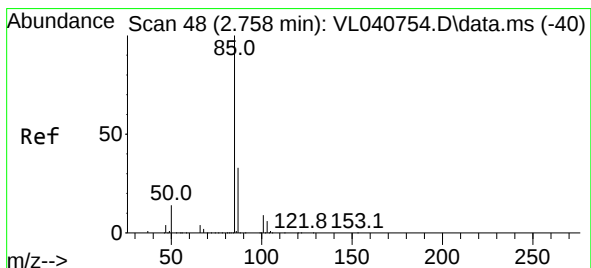
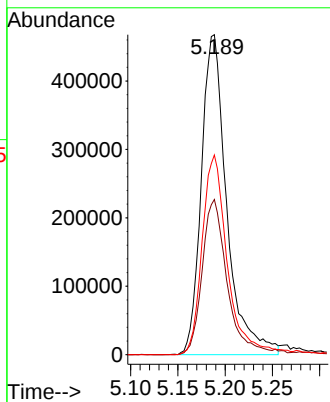
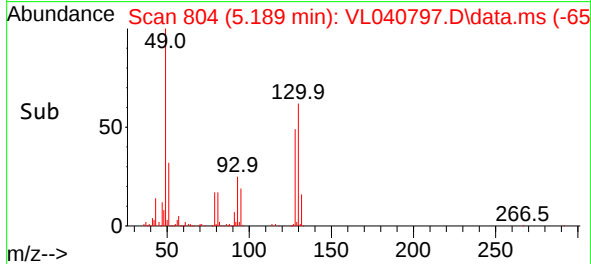
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 49 Resp: 874740
Ion Ratio Lower Upper
49 100
128 49.0 23.9 71.7
130 63.6 30.7 92.1

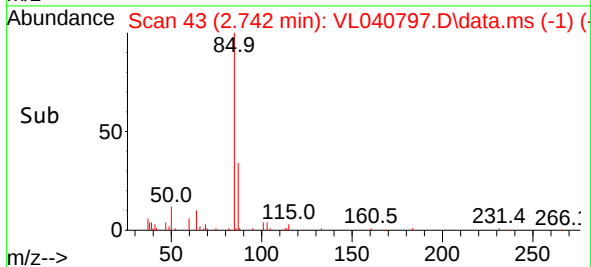
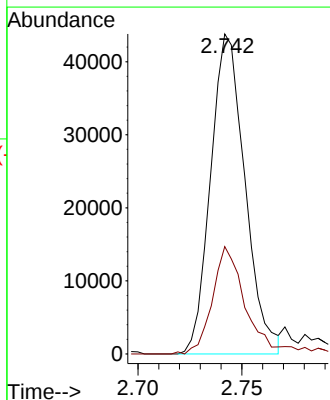
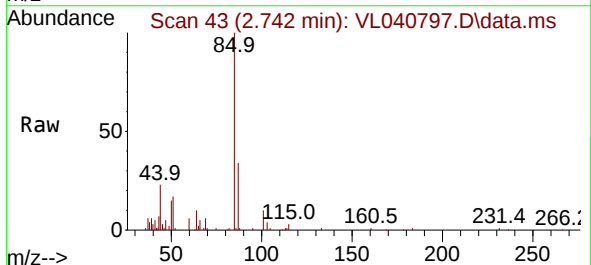
Manual Integrations
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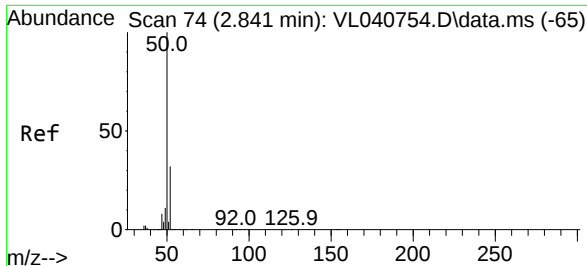
Reviewed By :Semsettin Yesilyurt 10/26/2023
Supervised By :Mahesh Dadoda 10/26/2023



#2
Dichlorodifluoromethane
Concen: 0.327 ppbv
RT: 2.742 min Scan# 43
Delta R.T. -0.016 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

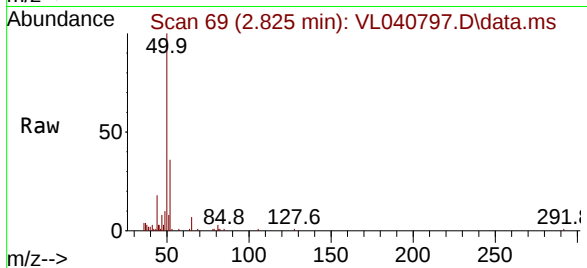
Tgt Ion: 85 Resp: 50349
Ion Ratio Lower Upper
85 100
87 32.9 26.0 39.0





#4
Chloromethane
Concen: 0.588 ppbv
RT: 2.825 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

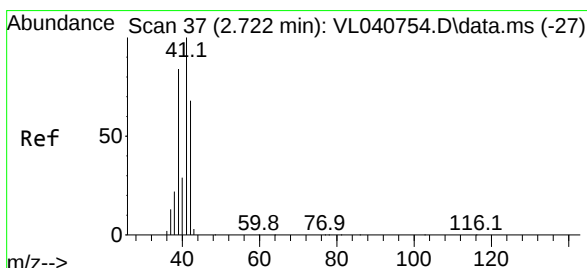
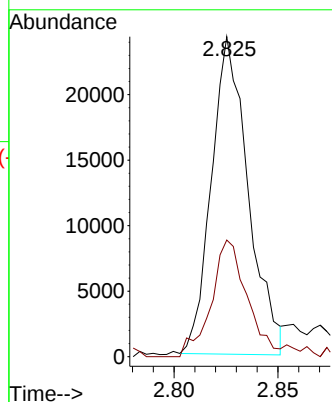
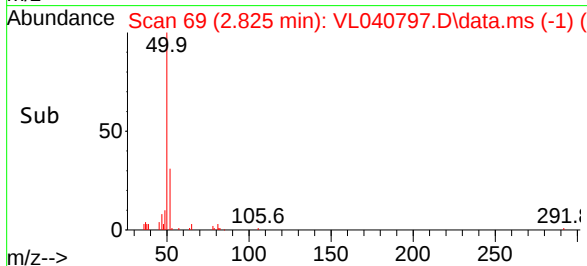
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 50 Resp: 2986
Ion Ratio Lower Upper
50 100
52 36.8 25.3 37.9

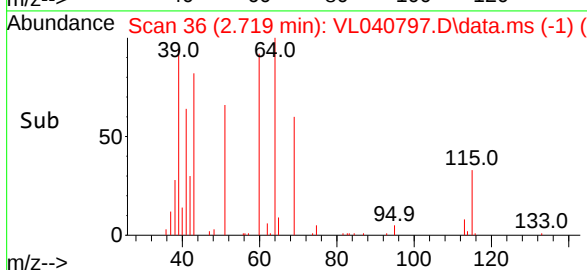
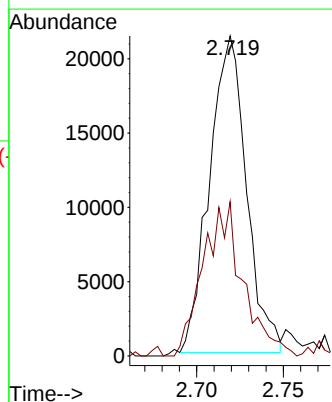
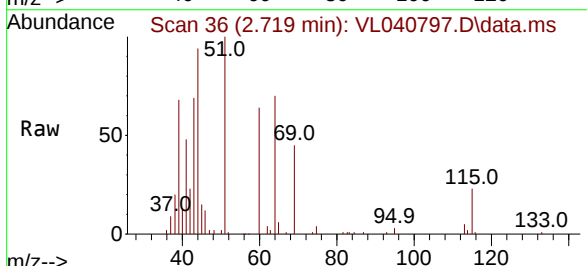
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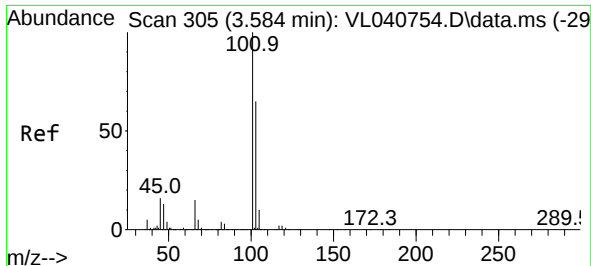
Reviewed By :Semsettin Yesilyurt 10/26/2023
Supervised By :Mahesh Dadoda 10/26/2023



#9
Propene
Concen: 0.664 ppbv
RT: 2.719 min Scan# 36
Delta R.T. -0.003 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

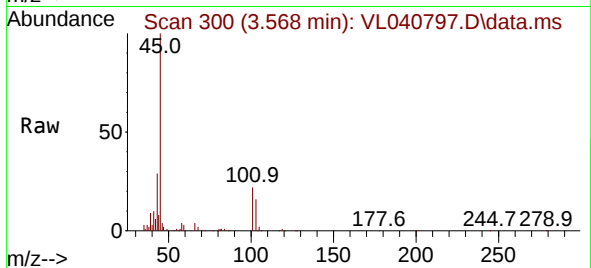
Tgt Ion: 41 Resp: 31682
Ion Ratio Lower Upper
41 100
42 50.1 57.1 85.7#





#11
Trichlorofluoromethane
Concen: 0.324 ppbv
RT: 3.568 min Scan# 305
Delta R.T. -0.016 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

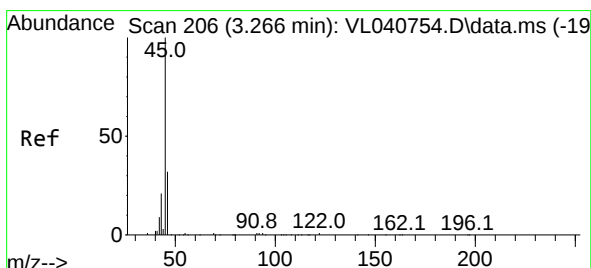
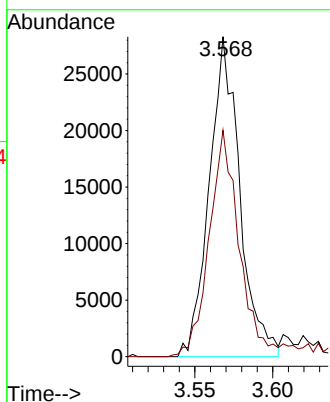
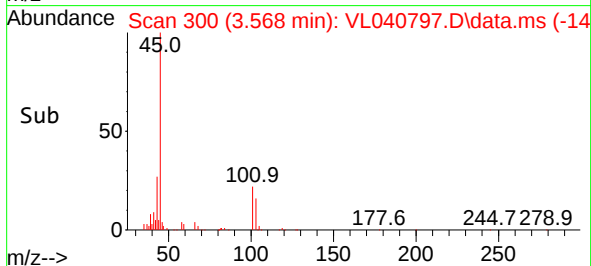
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion:101 Resp: 38464
Ion Ratio Lower Upper
101 100
103 70.0 52.2 78.2

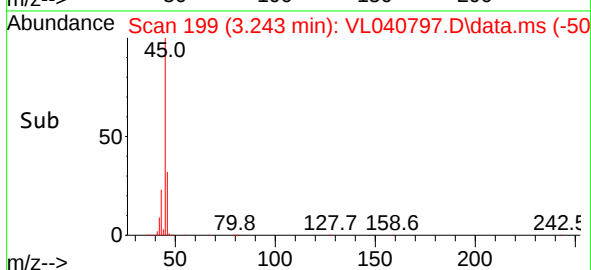
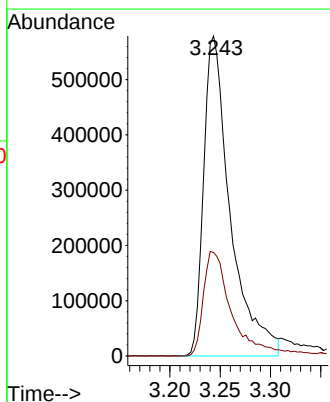
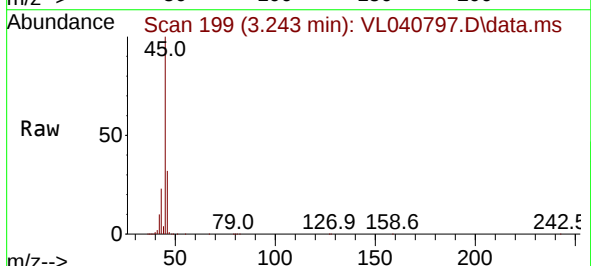
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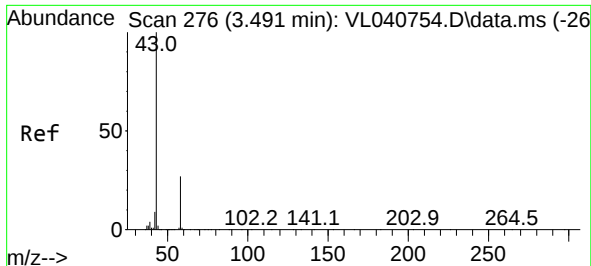
Reviewed By :Semsettin Yesilyurt 10/26/2023
Supervised By :Mahesh Dadoda 10/26/2023



#13
Ethanol
Concen: 98.948 ppbv
RT: 3.243 min Scan# 199
Delta R.T. -0.022 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

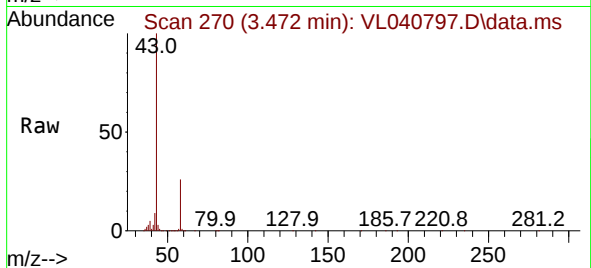
Tgt Ion: 45 Resp: 1066525
Ion Ratio Lower Upper
45 100
46 36.0 14.6 58.2





#15
Acetone
Concen: 11.595 ppbv
RT: 3.472 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

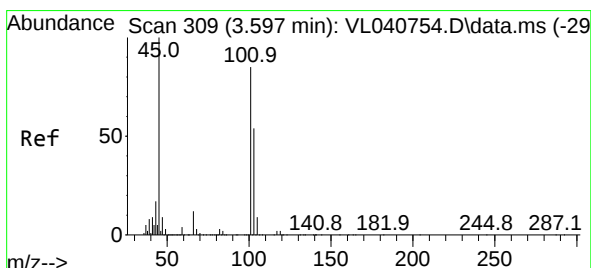
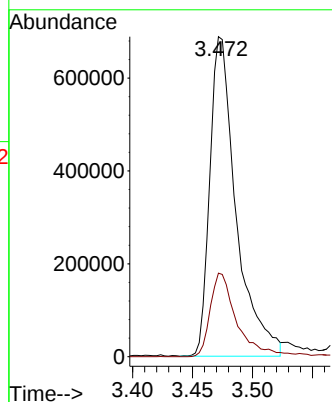
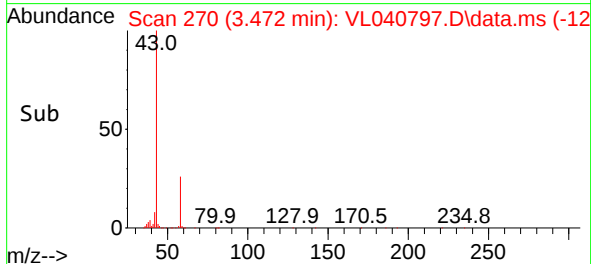
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 43 Resp: 104853
Ion Ratio Lower Upper
43 100
58 26.8 21.6 32.4

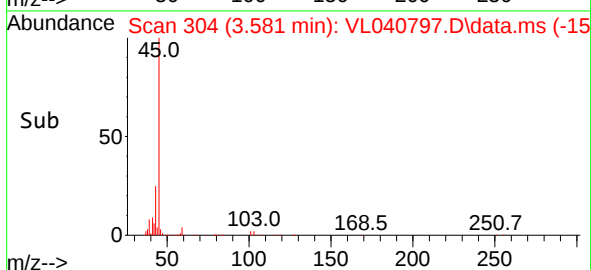
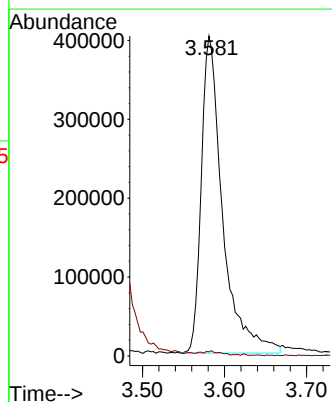
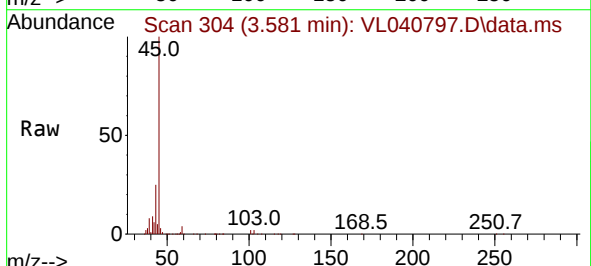
Manual Integrations
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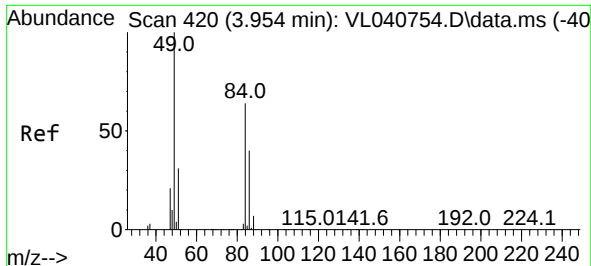
Reviewed By :Semsettin Yesilyurt 10/26/2023
Supervised By :Mahesh Dadoda 10/26/2023



#19
Isopropyl Alcohol
Concen: 12.438 ppbv
RT: 3.581 min Scan# 304
Delta R.T. -0.016 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

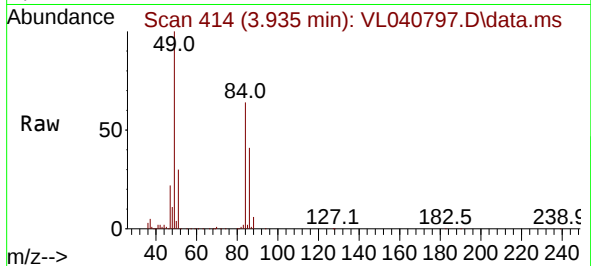
Tgt Ion: 45 Resp: 724087
Ion Ratio Lower Upper
45 100
58 1.9 30.3 45.5#





#20
Methylene Chloride
Concen: 10.201 ppbv
RT: 3.935 min Scan# 41
Delta R.T. -0.019 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

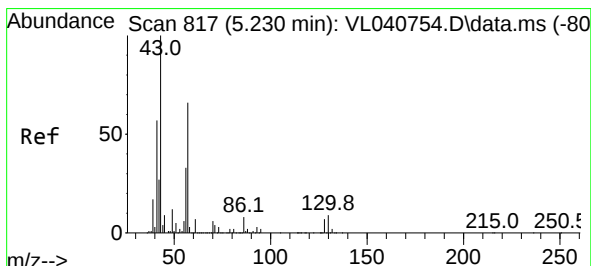
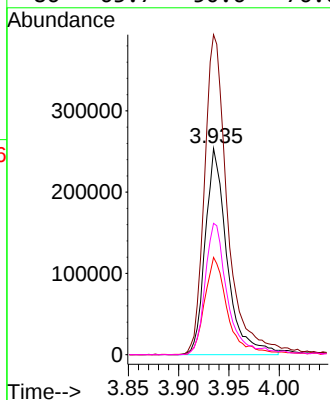
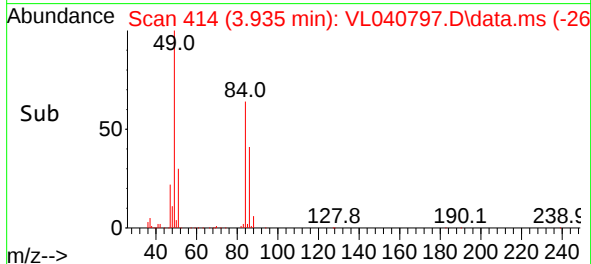
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 84 Resp: 38426
Ion Ratio Lower Upper
84 100
49 155.1 125.6 188.4
51 47.0 38.9 58.3
86 63.7 50.6 76.0

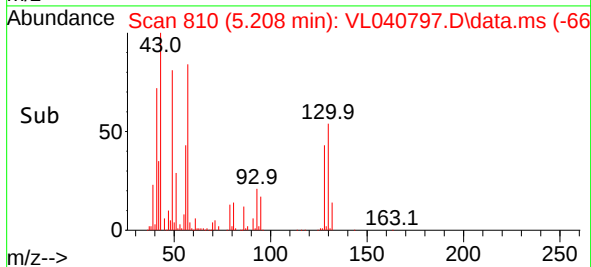
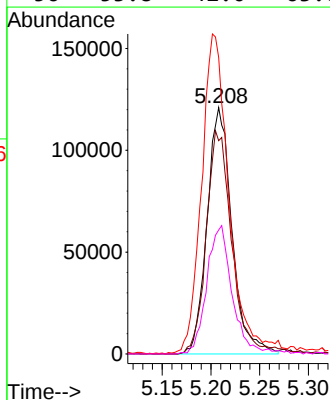
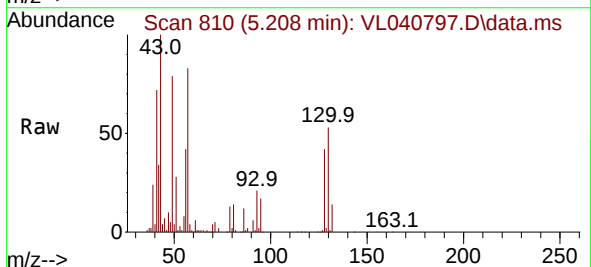
Manual Integrations
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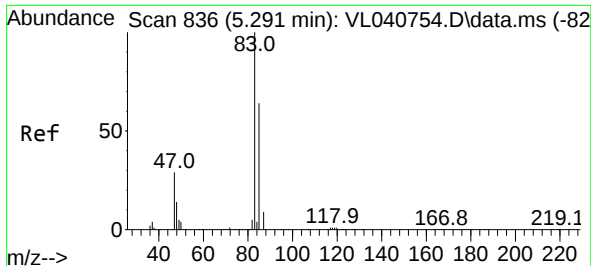
Reviewed By :Semsettin Yesilyurt 10/26/2023
Supervised By :Mahesh Dadoda 10/26/2023



#26
Hexane
Concen: 2.375 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.022 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

Tgt Ion: 57 Resp: 215025
Ion Ratio Lower Upper
57 100
41 94.4 71.4 107.2
43 146.3 182.3 273.5#
56 53.8 42.0 63.0





#29

Chloroform

Concen: 0.331 ppbv

RT: 5.269 min Scan# 81

Delta R.T. -0.022 min

Lab File: VL040797.D

Acq: 25 Oct 2023 12:45

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tgt Ion: 83 Resp: 43324

Ion Ratio Lower Upper

83 100

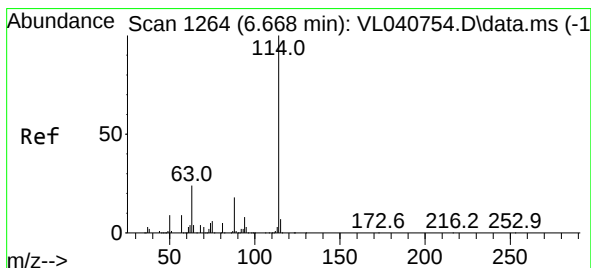
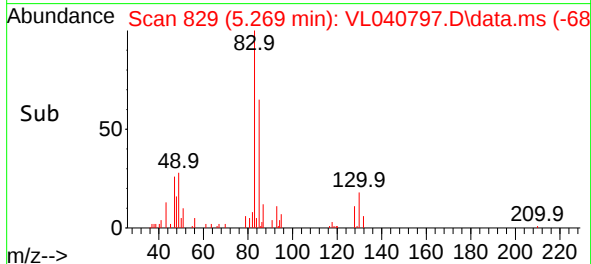
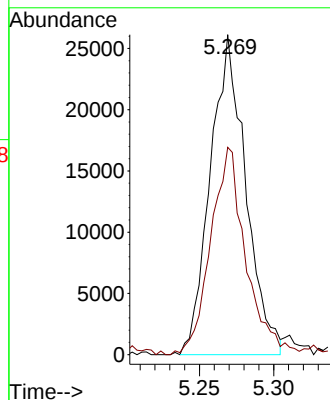
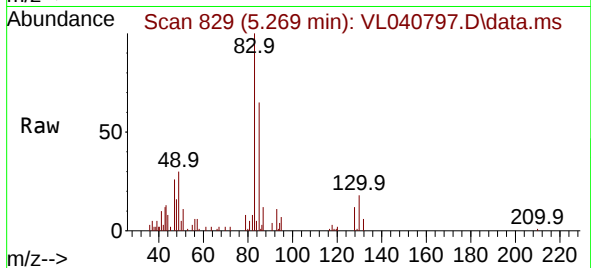
85 65.3 51.3 76.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/26/2023

Supervised By :Mahesh Dadoda 10/26/2023



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 1256

Delta R.T. -0.026 min

Lab File: VL040797.D

Acq: 25 Oct 2023 12:45

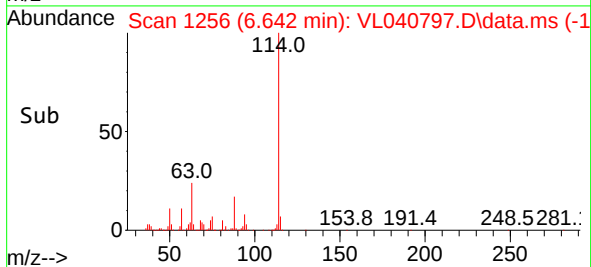
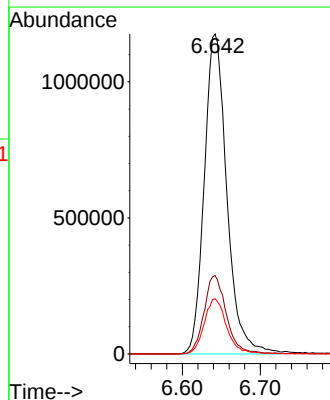
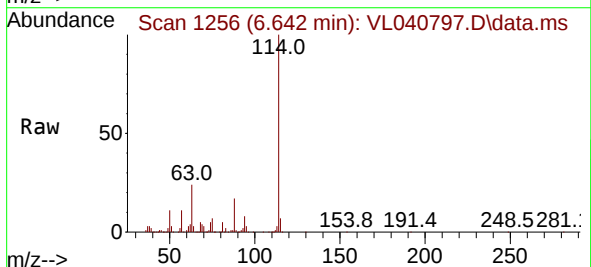
Tgt Ion:114 Resp: 2370137

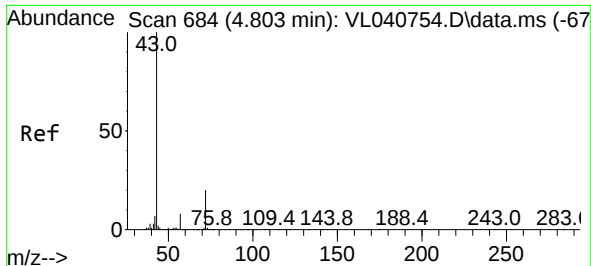
Ion Ratio Lower Upper

114 100

63 24.5 19.8 29.6

88 17.2 14.2 21.2





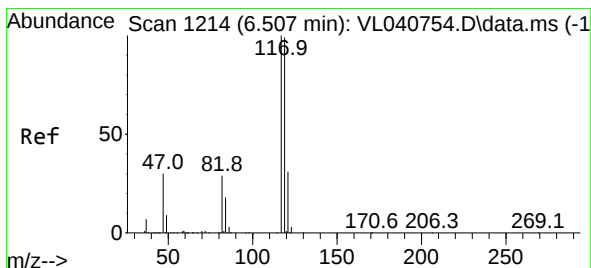
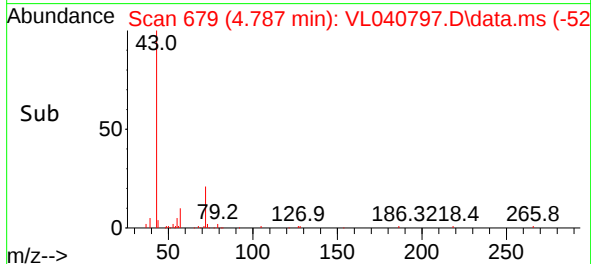
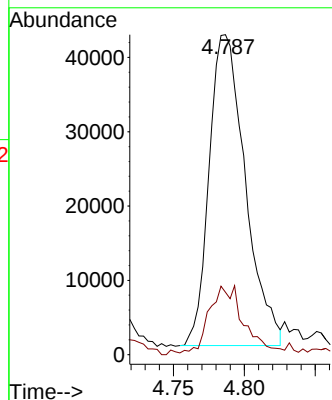
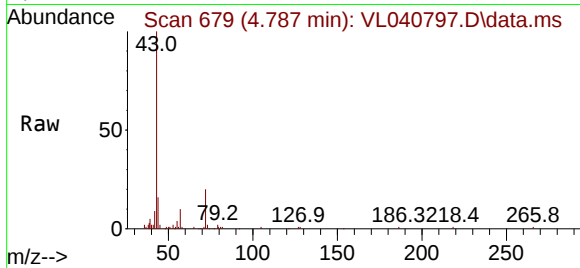
#34
2-Butanone
Concen: 0.692 ppbv
RT: 4.787 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 43 Resp: 7426
Ion Ratio Lower Upper
43 100
72 23.7 16.8 25.2

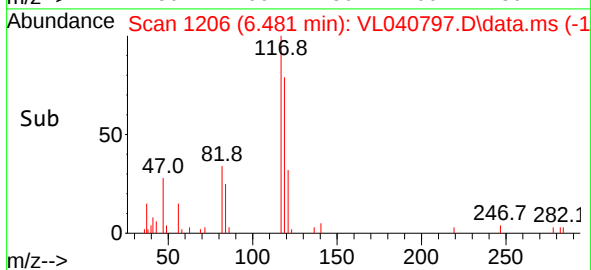
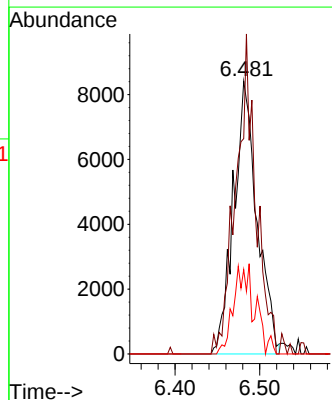
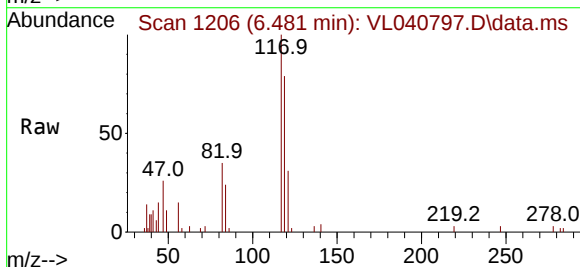
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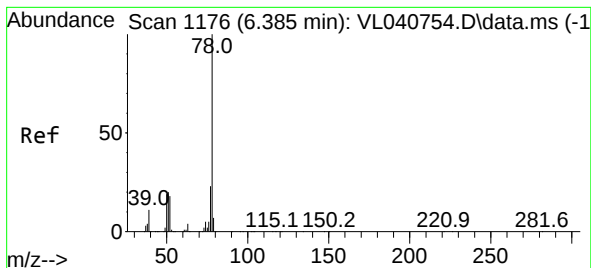
Reviewed By :Semsettin Yesilyurt 10/26/2023
Supervised By :Mahesh Dadoda 10/26/2023



#35
Carbon Tetrachloride
Concen: 0.122 ppbv m
RT: 6.481 min Scan# 1206
Delta R.T. -0.026 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

Tgt Ion:117 Resp: 16257
Ion Ratio Lower Upper
117 100
119 79.0 79.4 119.0#
121 30.9 25.0 37.4





#36

Benzene

Concen: 0.161 ppbv

RT: 6.359 min Scan# 1176

Delta R.T. -0.026 min

Lab File: VL040797.D

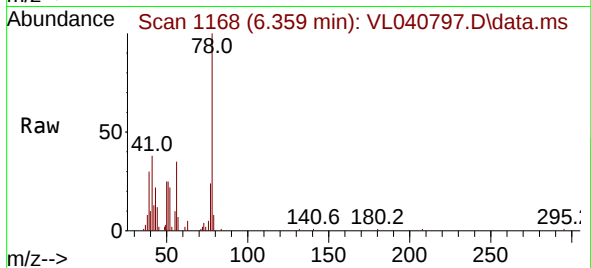
Acq: 25 Oct 2023 12:45

Instrument :

MSVOA_L

ClientSampleId :

IA-2



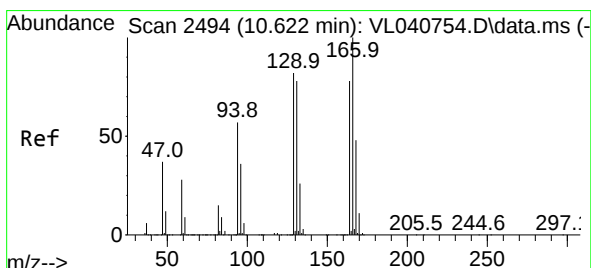
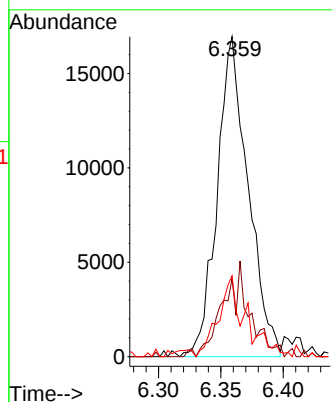
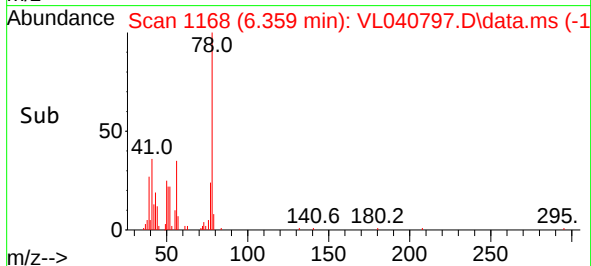
Tgt Ion: 78 Resp: 2929

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.4	27.6
50	23.9	15.0	22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/26/2023
Supervised By :Mahesh Dadoda 10/26/2023



#52

Tetrachloroethene

Concen: 0.125 ppbv m

RT: 10.600 min Scan# 2487

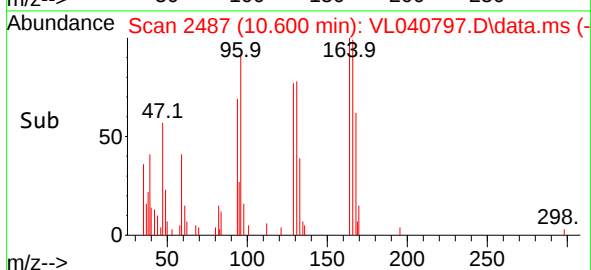
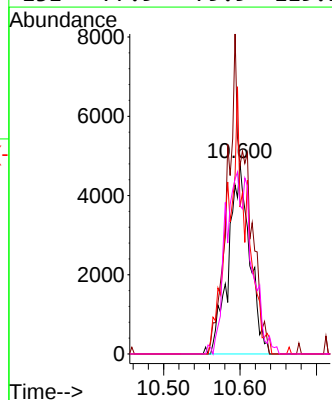
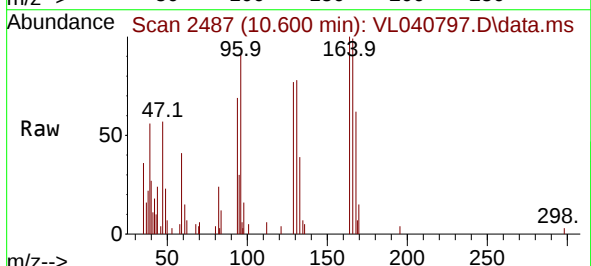
Delta R.T. -0.022 min

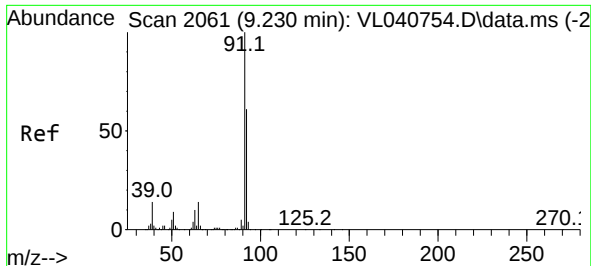
Lab File: VL040797.D

Acq: 25 Oct 2023 12:45

Tgt Ion:164 Resp: 9267

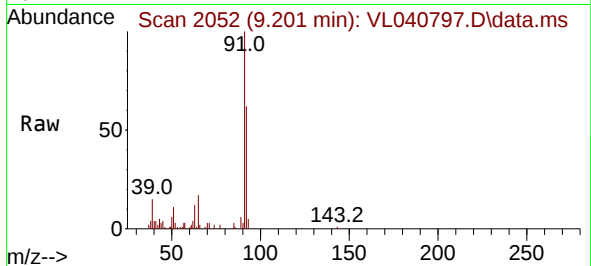
Ion	Ratio	Lower	Upper
164	100		
166	98.8	102.4	153.6#
129	77.1	84.2	126.4#
131	77.9	79.9	119.9#





#53
Toluene
Concen: 0.348 ppbv m
RT: 9.201 min Scan# 2061
Delta R.T. -0.029 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

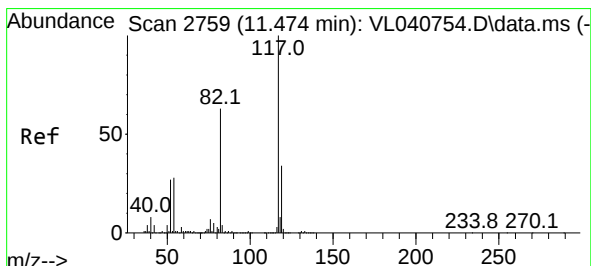
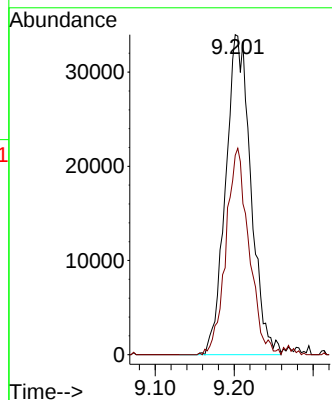
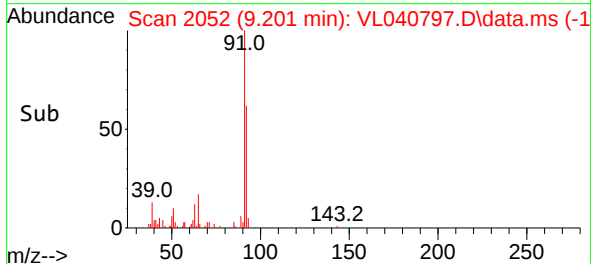
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 91 Resp: 75532
Ion Ratio Lower Upper
91 100
92 59.8 50.2 75.2

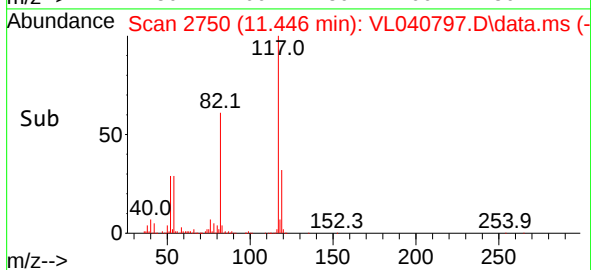
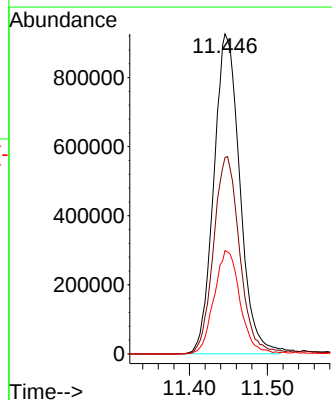
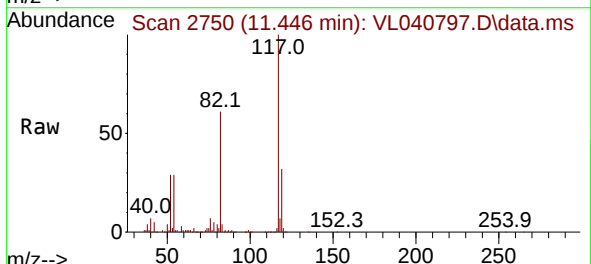
Manual Integrations
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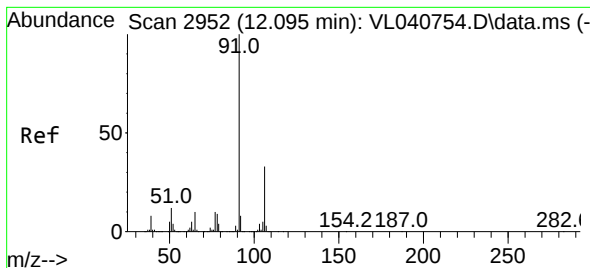
Reviewed By :Semsettin Yesilyurt 10/26/2023
Supervised By :Mahesh Dadoda 10/26/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 2750
Delta R.T. -0.029 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

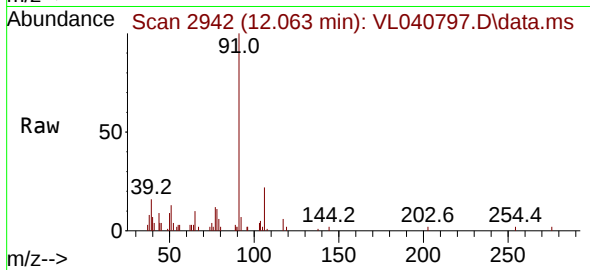
Tgt Ion:117 Resp: 2147785
Ion Ratio Lower Upper
117 100
82 63.0 46.6 70.0
119 32.8 26.0 39.0





#58
Ethyl Benzene
Concen: 0.096 ppbv m
RT: 12.063 min Scan# 2952
Delta R.T. -0.032 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

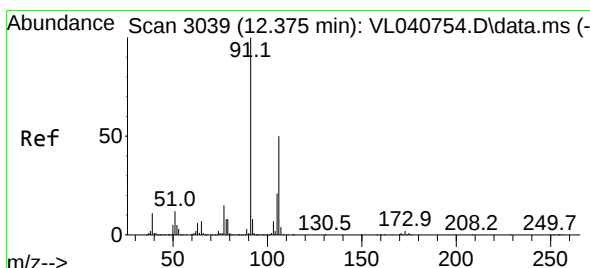
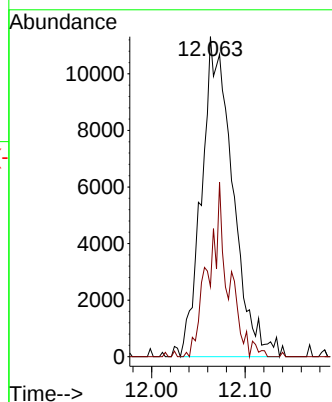
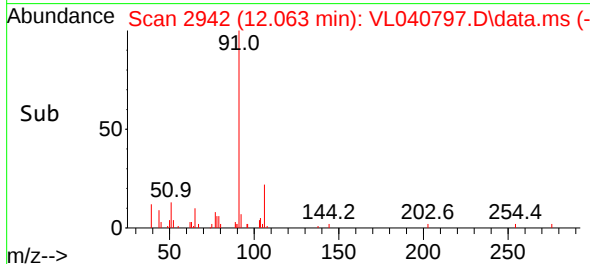
Instrument :
MSVOA_L
ClientSampleId :
IA-2



Tgt Ion: 91 Resp: 26009
Ion Ratio Lower Upper
91 100
106 21.9 26.7 40.13

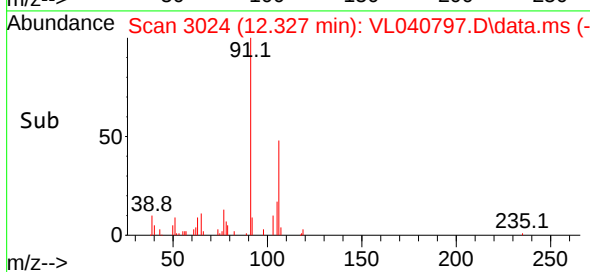
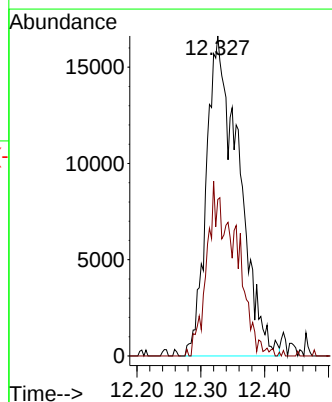
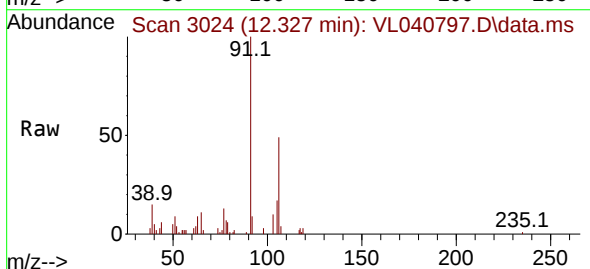
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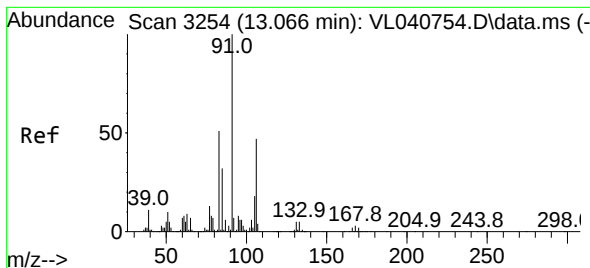
Reviewed By :Semsettin Yesilyurt 10/26/2023
Supervised By :Mahesh Dadoda 10/26/2023



#59
m/p-Xylene
Concen: 0.264 ppbv m
RT: 12.327 min Scan# 3024
Delta R.T. -0.048 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

Tgt Ion: 91 Resp: 58682
Ion Ratio Lower Upper
91 100
106 0.0 37.7 56.5#





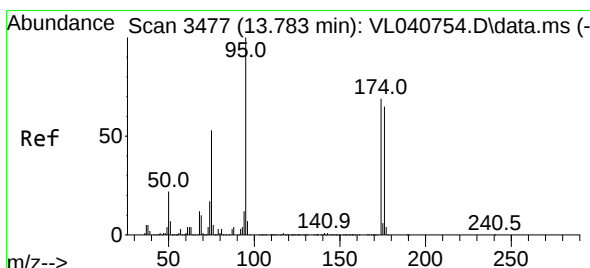
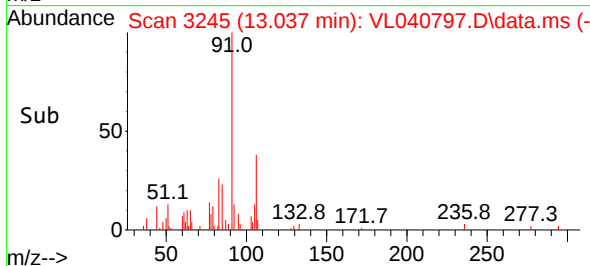
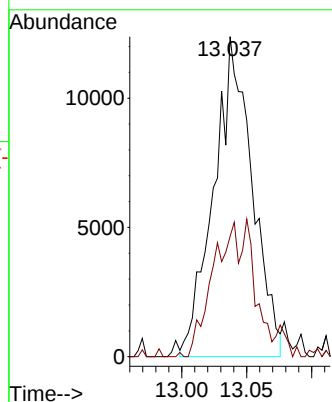
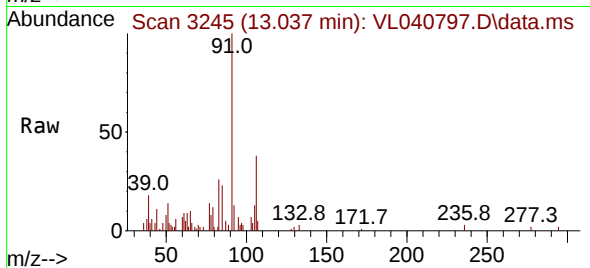
#60
o-Xylene
Concen: 0.120 ppbv
RT: 13.037 min Scan# 31
Delta R.T. -0.029 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 91 Resp: 25420
Ion Ratio Lower Upper
91 100
106 46.9 23.5 70.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/26/2023
Supervised By :Mahesh Dadoda 10/26/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 10.539 ppbv
RT: 13.757 min Scan# 3469
Delta R.T. -0.026 min
Lab File: VL040797.D
Acq: 25 Oct 2023 12:45

Tgt Ion: 95 Resp: 1665628
Ion Ratio Lower Upper
95 100
174 63.4 54.7 82.1
175 4.6 4.2 6.4

