

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060424\
 Data File : VL041317.D
 Acq On : 4 Jun 2024 23:56
 Operator : SY/MD
 Sample : P2682-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

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

Quant Time: Jun 05 05:32:12 2024

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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	5.201	49	967439	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2583405	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2383030	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1922172	10.447	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.761	85	19697	0.127	ppbv	89
9) Propene	2.732	41	606591m	11.139	ppbv	
10) Heptane	7.581	43	482239	3.736	ppbv	100
11) Trichlorofluoromethane	3.581	101	9171	0.065	ppbv	85
13) Ethanol	3.272	45	37096m	2.618	ppbv	
20) Methylene Chloride	3.954	84	69845m	1.740	ppbv	
26) Hexane	5.224	57	624154	6.352	ppbv #	42
27) Carbon Disulfide	4.143	76	48629	0.447	ppbv #	76
30) Cyclohexane	6.606	84	161750	2.031	ppbv	90
34) 2-Butanone	4.806	43	150425	1.215	ppbv	97
36) Benzene	6.378	78	178502	0.891	ppbv	99
52) Tetrachloroethene	10.616	164	22270m	0.305	ppbv	
53) Toluene	9.224	91	2428020	10.542	ppbv	99
58) Ethyl Benzene	12.085	91	183124	0.599	ppbv	98
59) m/p-Xylene	12.336	91	762262	2.913	ppbv	94
60) o-Xylene	13.053	91	331412	1.328	ppbv	97
72) 4-Ethyltoluene	15.188	105	43460	0.150	ppbv #	83
73) 1,3,5-Trimethylbenzene	15.346	105	77462	0.307	ppbv	97
74) 1,2,4-Trimethylbenzene	16.098	105	204169	0.716	ppbv #	74

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

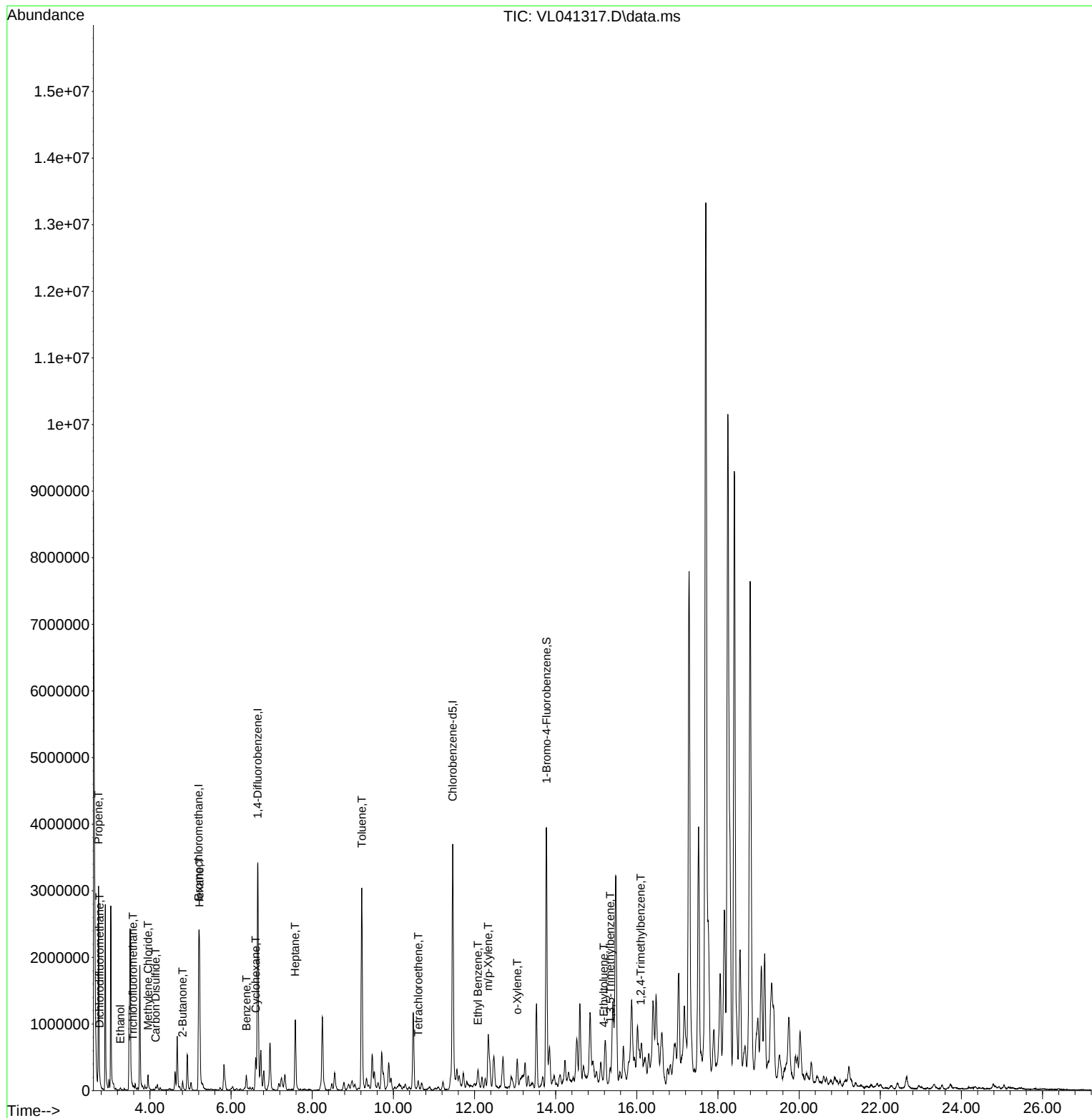
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060424\
Data File : VL041317.D
Acq On : 4 Jun 2024 23:56
Operator : SY/MD
Sample : P2682-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

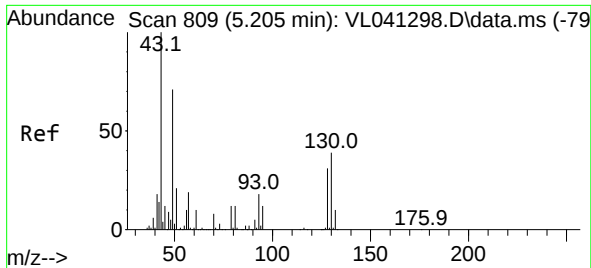
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Jun 05 05:32:12 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
Response via : Initial Calibration

Manual Integrations
APPROVED

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





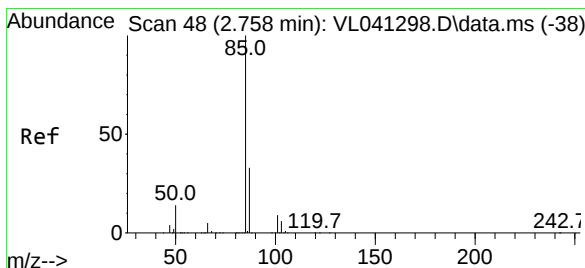
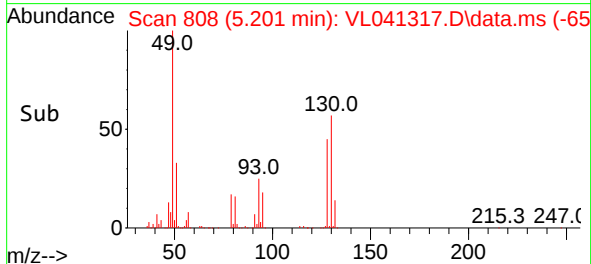
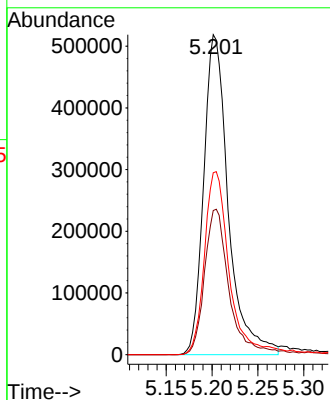
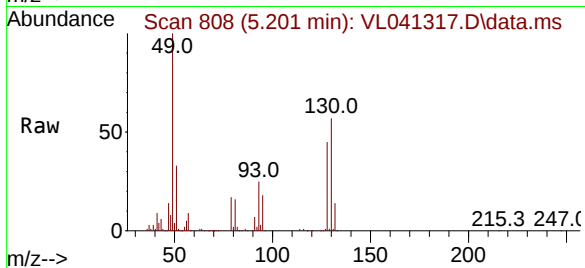
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.201 min Scan# 809
Delta R.T. -0.004 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 967439
Ion Ratio Lower Upper
49 100
128 45.7 22.8 68.3
130 59.8 28.4 85.3

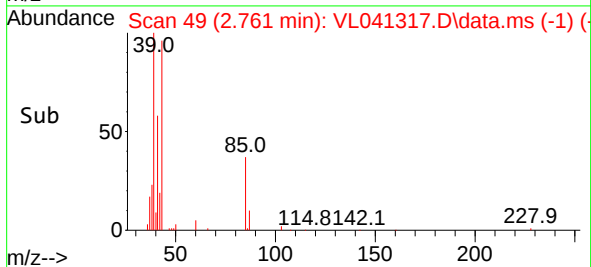
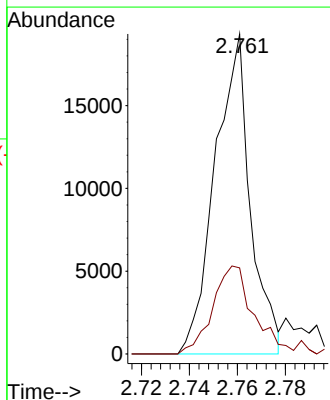
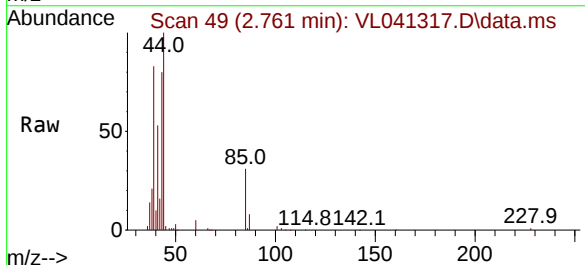
Manual Integrations
APPROVED

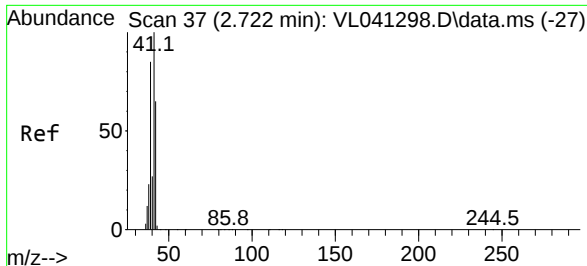
Reviewed By :Semsettin Yesilyurt 06/05/2024
Supervised By :Mahesh Dadoda 06/05/2024



#2
Dichlorodifluoromethane
Concen: 0.127 ppbv
RT: 2.761 min Scan# 49
Delta R.T. 0.003 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56

Tgt Ion: 85 Resp: 19697
Ion Ratio Lower Upper
85 100
87 26.9 26.5 39.7





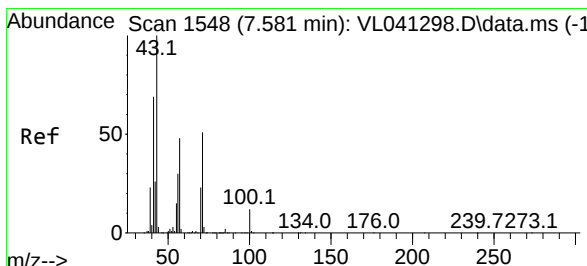
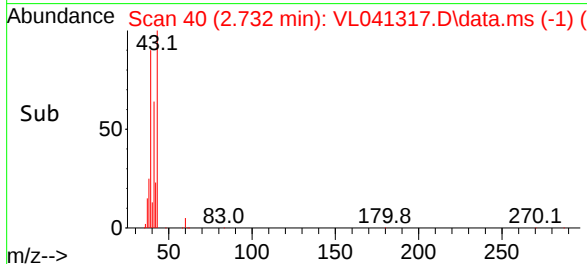
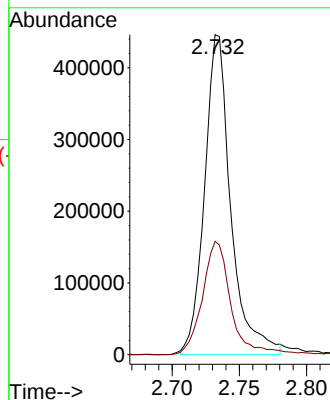
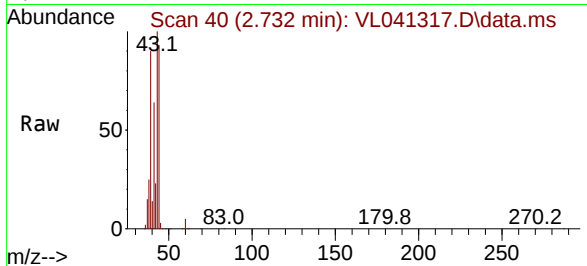
#9
 Propene
 Concen: 11.139 ppbv m
 RT: 2.732 min Scan# 40
 Delta R.T. 0.010 min
 Lab File: VL041317.D
 Acq: 4 Jun 2024 23:56

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 41 Resp: 60659
 Ion Ratio Lower Upper
 41 100
 42 83.0 55.2 82.8

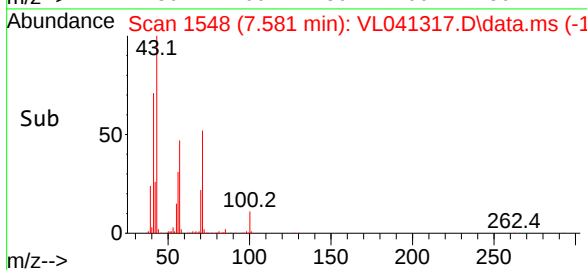
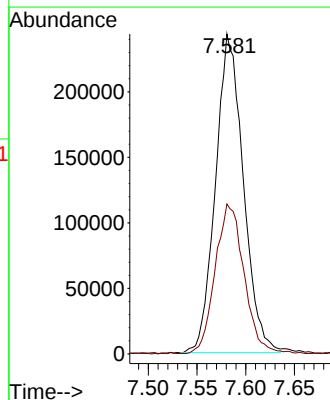
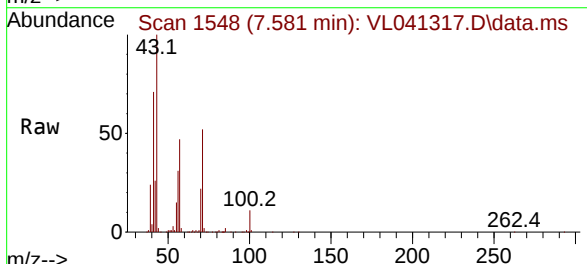
Manual Integrations
 APPROVED

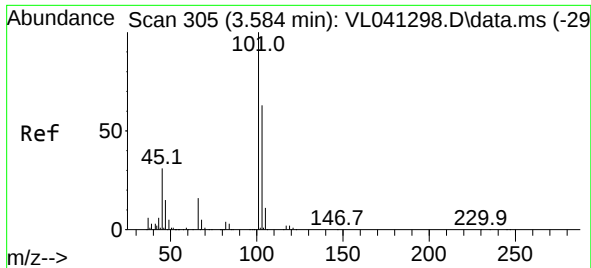
Reviewed By :Semsettin Yesilyurt 06/05/2024
 Supervised By :Mahesh Dadoda 06/05/2024



#10
 Heptane
 Concen: 3.736 ppbv
 RT: 7.581 min Scan# 1548
 Delta R.T. -0.000 min
 Lab File: VL041317.D
 Acq: 4 Jun 2024 23:56

Tgt Ion: 43 Resp: 482239
 Ion Ratio Lower Upper
 43 100
 57 49.0 39.0 58.4





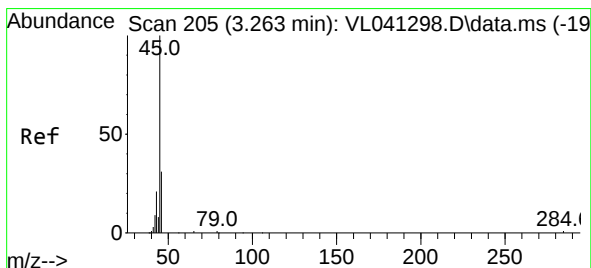
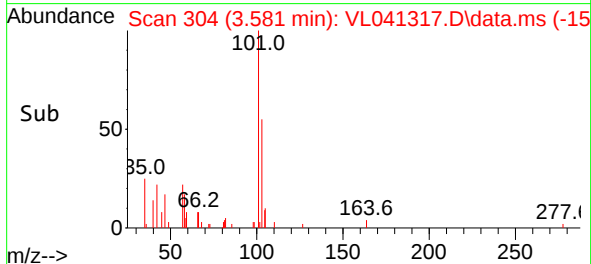
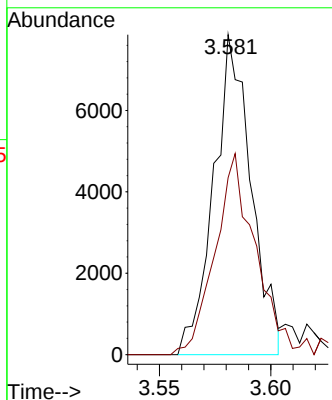
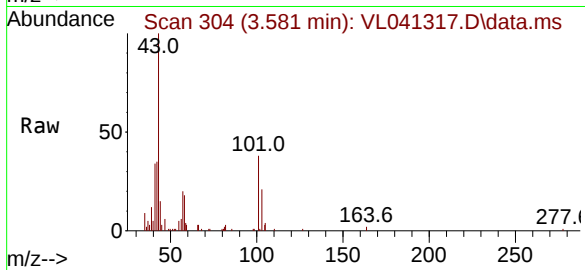
#11
Trichlorofluoromethane
Concen: 0.065 ppbv
RT: 3.581 min Scan# 305
Delta R.T. -0.003 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:101 Resp: 917
Ion Ratio Lower Upper
101 100
103 51.8 50.6 76.0

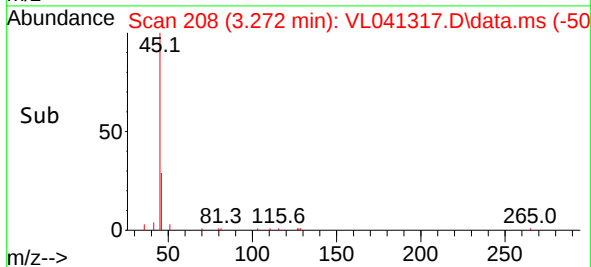
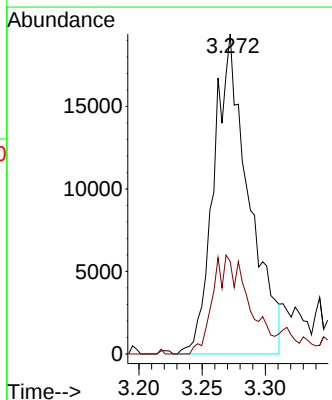
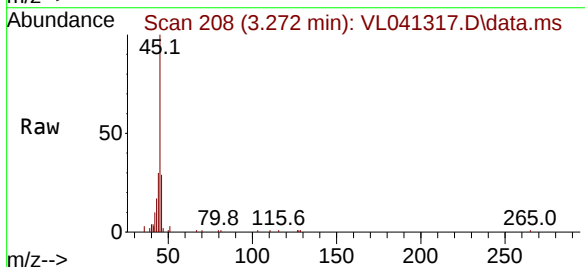
Manual Integrations
APPROVED

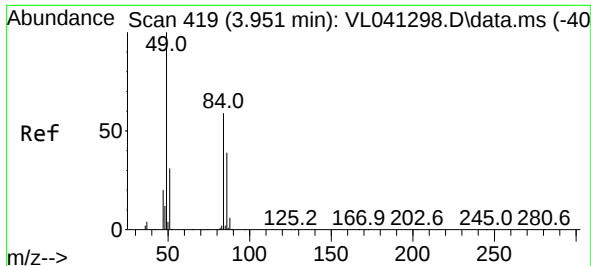
Reviewed By :Semsettin Yesilyurt 06/05/2024
Supervised By :Mahesh Dadoda 06/05/2024



#13
Ethanol
Concen: 2.618 ppbv m
RT: 3.272 min Scan# 208
Delta R.T. 0.010 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56

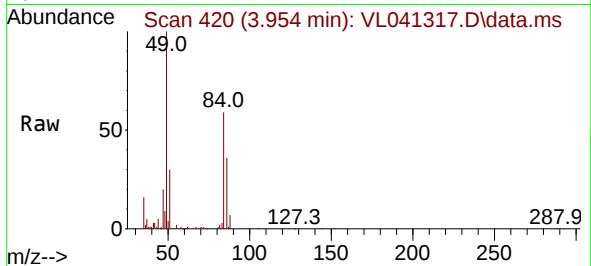
Tgt Ion: 45 Resp: 37096
Ion Ratio Lower Upper
45 100
46 0.0 14.2 56.6#





#20
Methylene Chloride
Concen: 1.740 ppbv m
RT: 3.954 min Scan# 419
Delta R.T. 0.003 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56

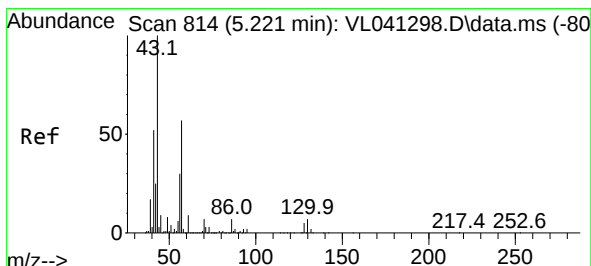
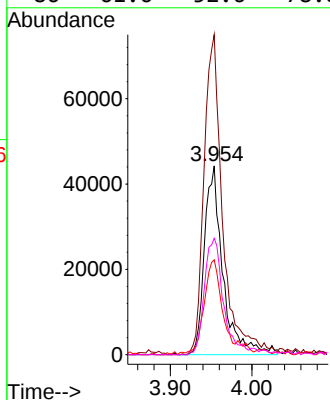
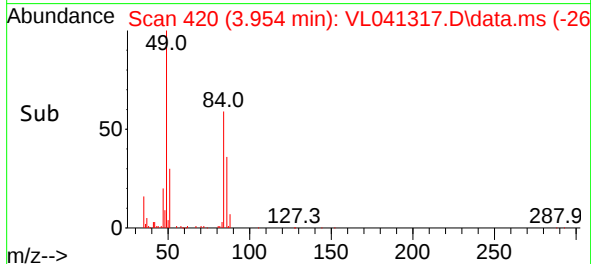
Instrument :
MSVOA_L
ClientSampleId :
SV1



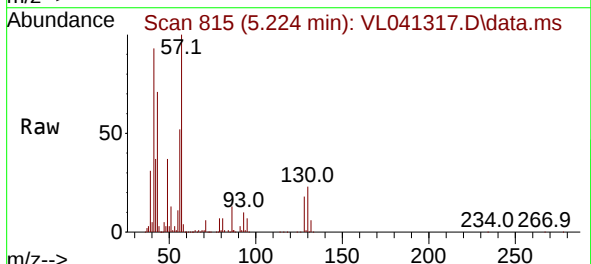
Tgt Ion: 84 Resp: 69849
Ion Ratio Lower Upper
84 100
49 169.4 136.2 204.2
51 50.2 41.9 62.9
86 61.6 52.6 78.8

Manual Integrations
APPROVED

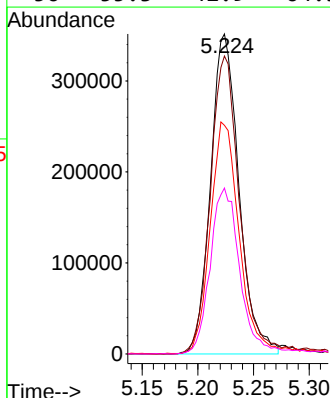
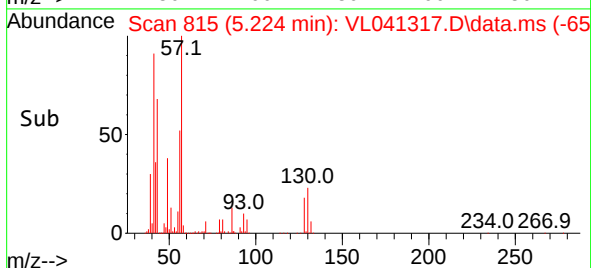
Reviewed By :Semsettin Yesilyurt 06/05/2024
Supervised By :Mahesh Dadoda 06/05/2024

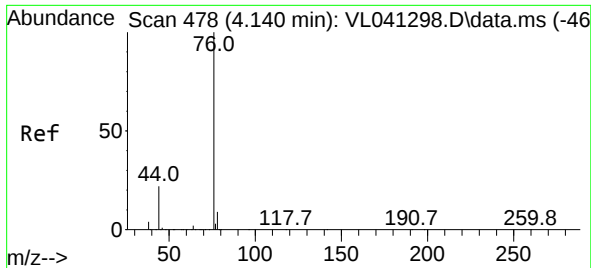


#26
Hexane
Concen: 6.352 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.003 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56



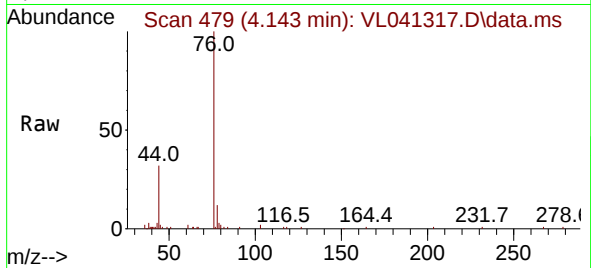
Tgt Ion: 57 Resp: 624154
Ion Ratio Lower Upper
57 100
41 98.7 77.1 115.7
43 76.0 186.1 279.1#
56 55.3 42.9 64.3





#27
Carbon Disulfide
Concen: 0.447 ppbv
RT: 4.143 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56

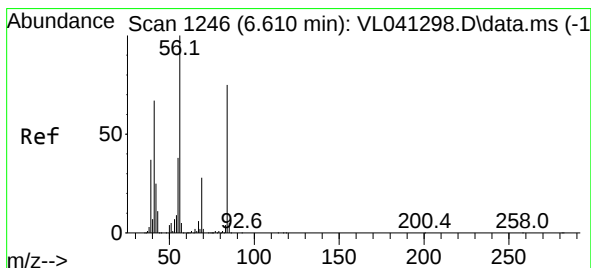
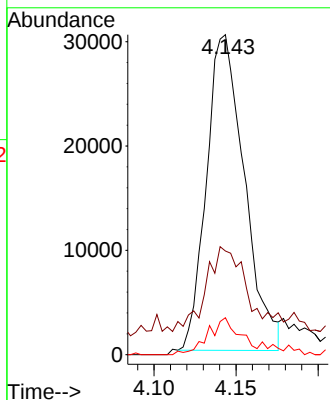
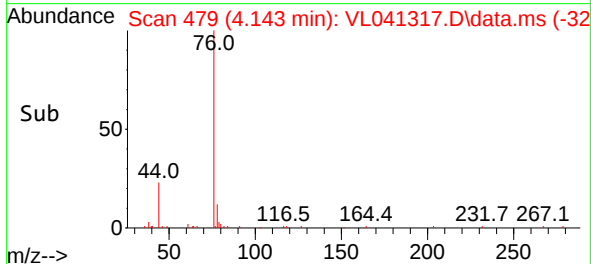
Instrument :
MSVOA_L
ClientSampleId :
SV1



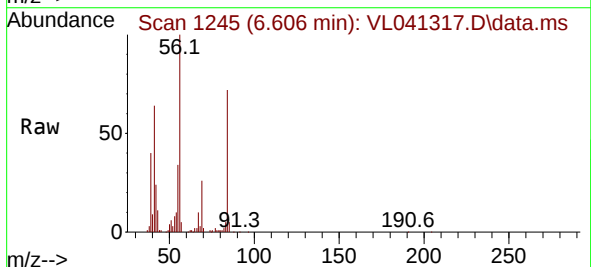
Tgt Ion: 76 Resp: 48629
Ion Ratio Lower Upper
76 100
44 36.9 17.7 26.5
78 12.2 7.8 11.6

Manual Integrations
APPROVED

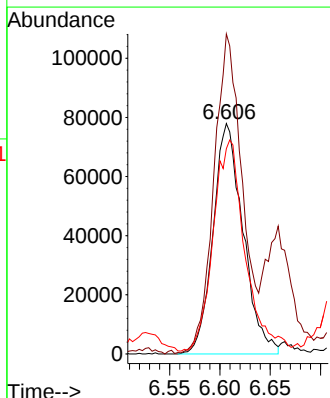
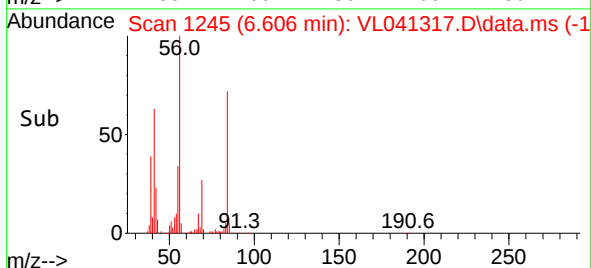
Reviewed By :Semsettin Yesilyurt 06/05/2024
Supervised By :Mahesh Dadoda 06/05/2024

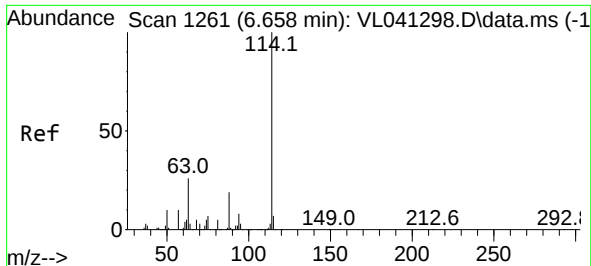


#30
Cyclohexane
Concen: 2.031 ppbv
RT: 6.606 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56



Tgt Ion: 84 Resp: 161750
Ion Ratio Lower Upper
84 100
56 126.9 114.9 172.3
41 96.6 74.4 111.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL041317.D

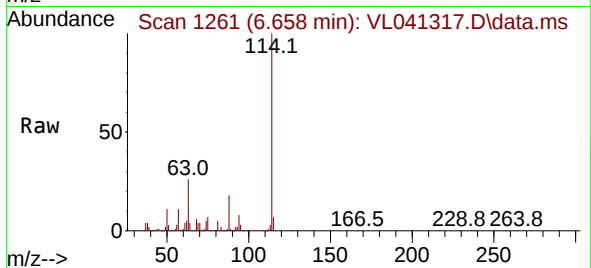
Acq: 4 Jun 2024 23:56

Instrument :

MSVOA_L

ClientSampleId :

SV1



Tgt Ion:114 Resp: 258340

Ion Ratio Lower Upper

114 100

63 25.8 20.6 30.8

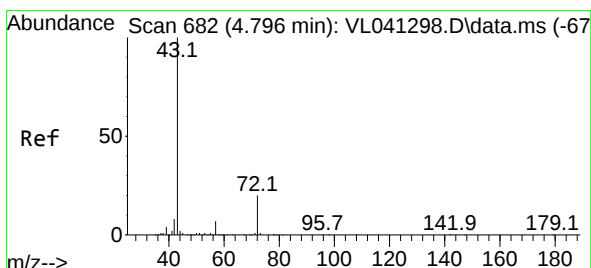
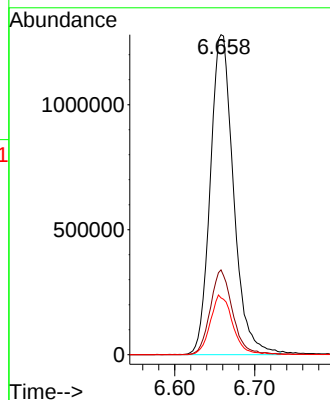
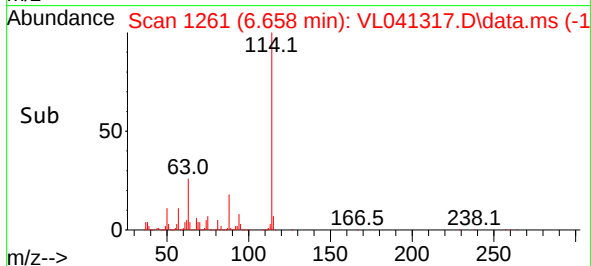
88 18.2 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/05/2024

Supervised By :Mahesh Dadoda 06/05/2024



#34

2-Butanone

Concen: 1.215 ppbv

RT: 4.806 min Scan# 685

Delta R.T. 0.010 min

Lab File: VL041317.D

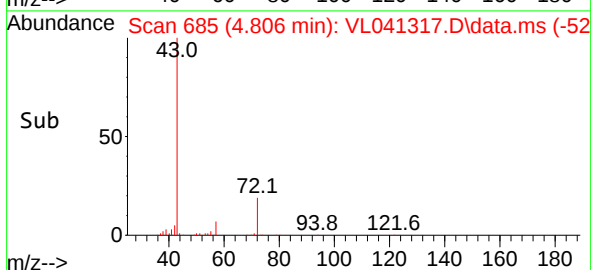
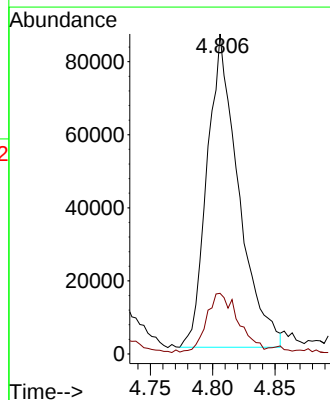
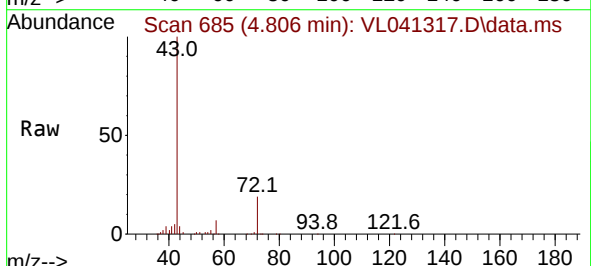
Acq: 4 Jun 2024 23:56

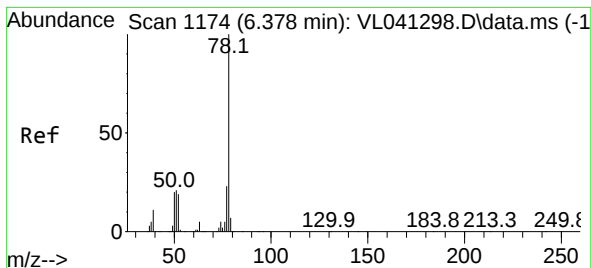
Tgt Ion: 43 Resp: 150425

Ion Ratio Lower Upper

43 100

72 23.1 17.4 26.0





#36

Benzene

Concen: 0.891 ppbv

RT: 6.378 min Scan# 1174

Delta R.T. -0.000 min

Lab File: VL041317.D

Acq: 4 Jun 2024 23:56

Instrument :

MSVOA_L

ClientSampleId :

SV1

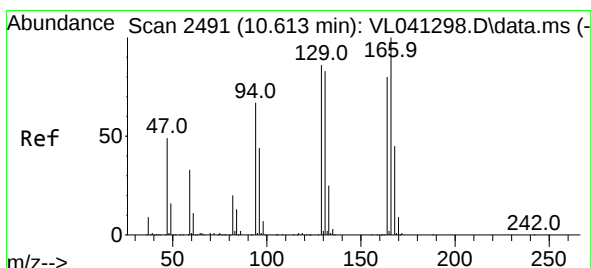
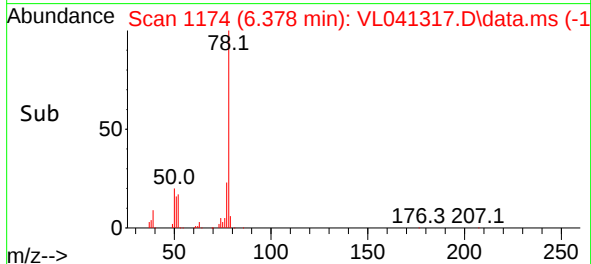
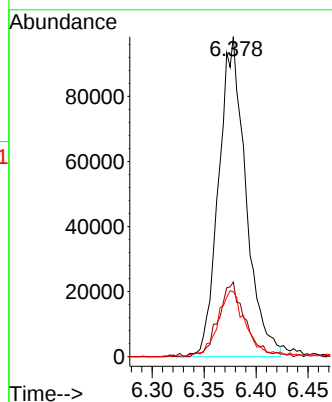
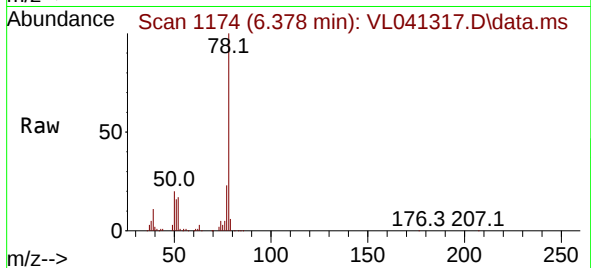
Tgt Ion: 78 Resp: 17850

Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.6	28.0
50	20.1	16.0	24.0

Manual Integrations

APPROVED

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



#52

Tetrachloroethene

Concen: 0.305 ppbv m

RT: 10.616 min Scan# 2492

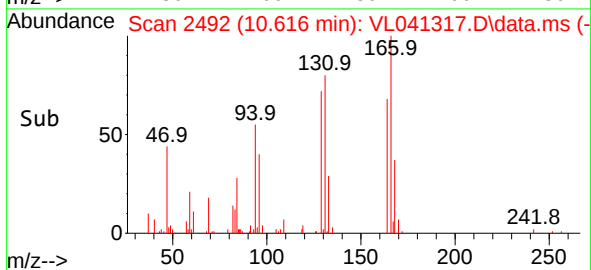
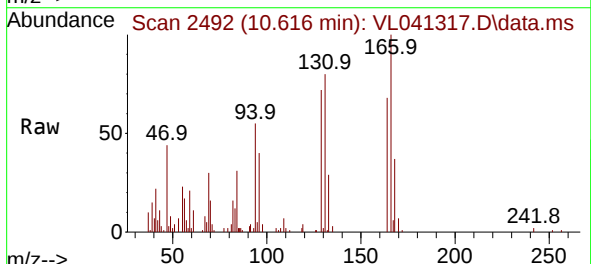
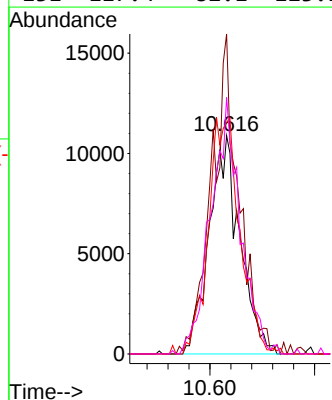
Delta R.T. 0.003 min

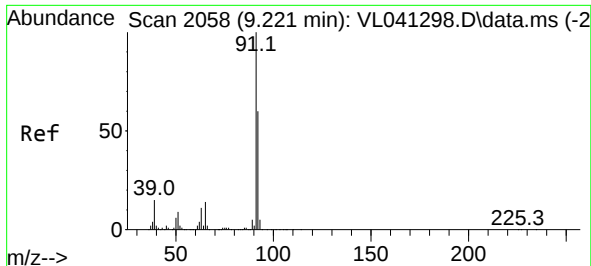
Lab File: VL041317.D

Acq: 4 Jun 2024 23:56

Tgt Ion:164 Resp: 22270

Ion	Ratio	Lower	Upper
164	100		
166	146.5	99.4	149.0
129	106.0	85.4	128.2
131	117.4	82.1	123.1





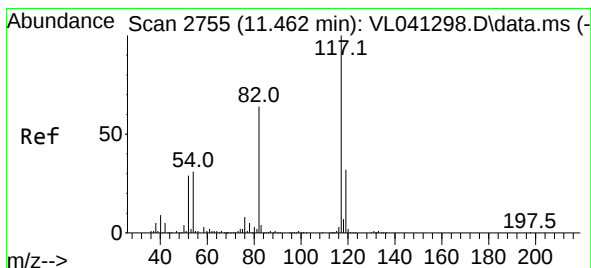
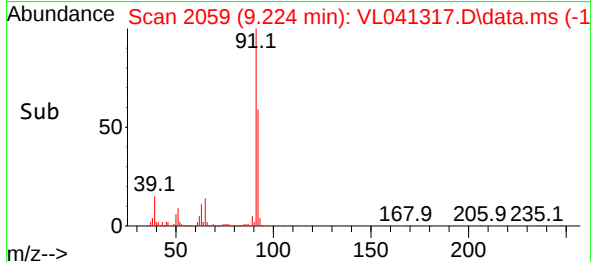
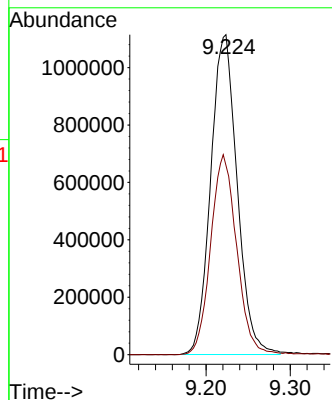
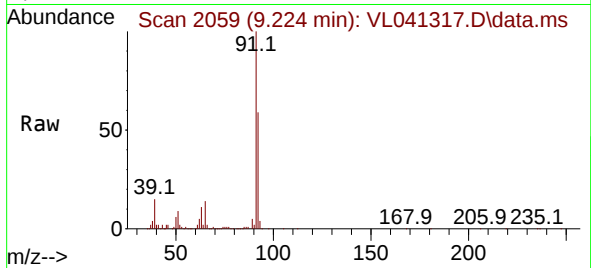
#53
Toluene
Concen: 10.542 ppbv
RT: 9.224 min Scan# 2058
Delta R.T. 0.003 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 2428020
Ion Ratio Lower Upper
91 100
92 62.0 49.2 73.8

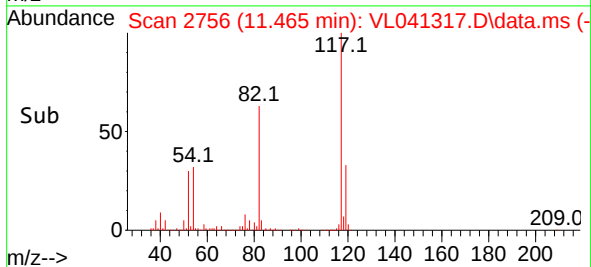
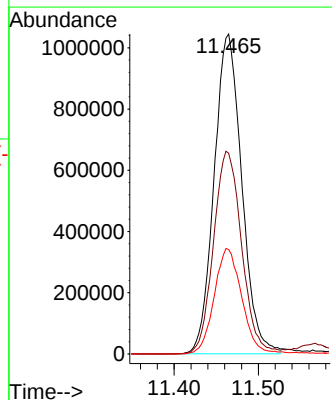
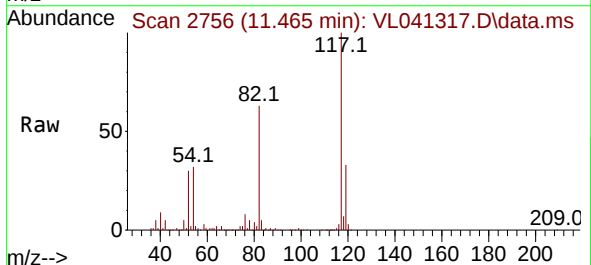
Manual Integrations
APPROVED

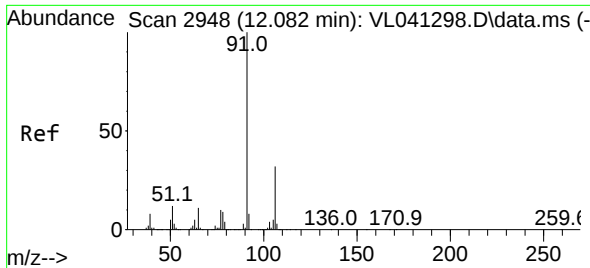
Reviewed By :Semsettin Yesilyurt 06/05/2024
Supervised By :Mahesh Dadoda 06/05/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. 0.003 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56

Tgt Ion:117 Resp: 2383030
Ion Ratio Lower Upper
117 100
82 64.9 52.3 78.5
119 33.1 26.2 39.2





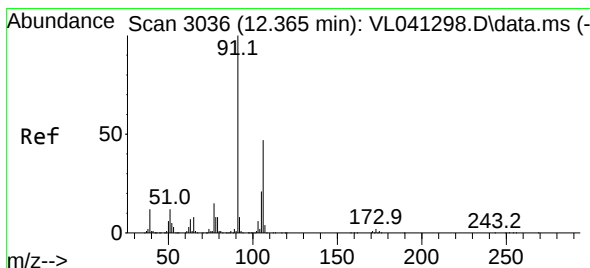
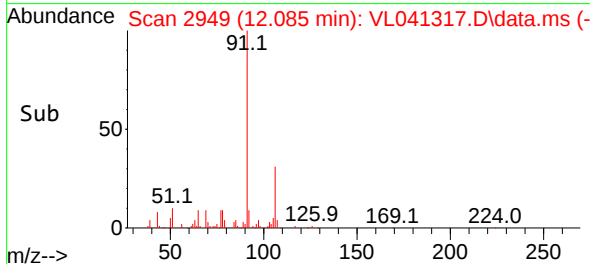
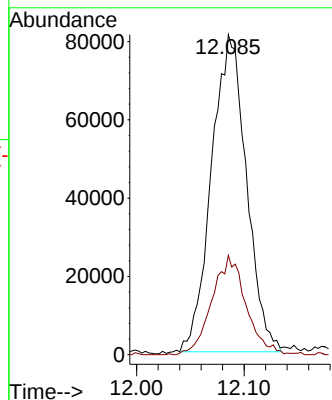
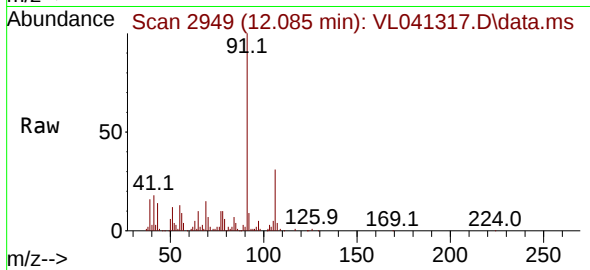
#58
Ethyl Benzene
Concen: 0.599 ppbv
RT: 12.085 min Scan# 2948
Delta R.T. 0.003 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 183124
Ion Ratio Lower Upper
91 100
106 30.8 25.5 38.3

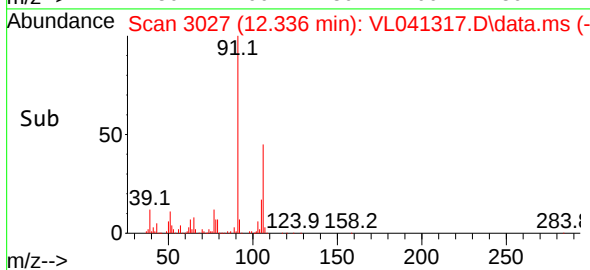
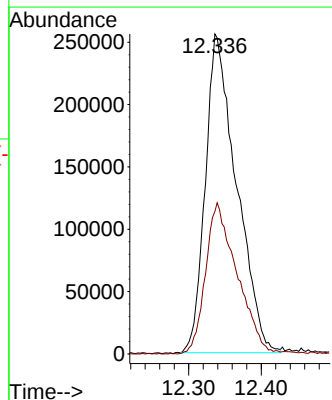
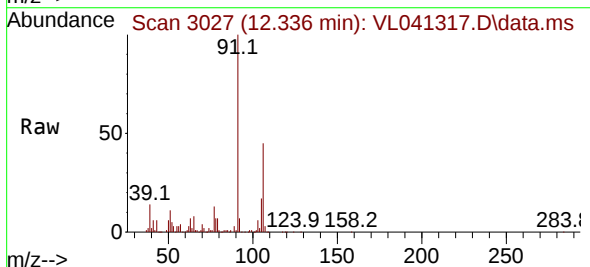
Manual Integrations
APPROVED

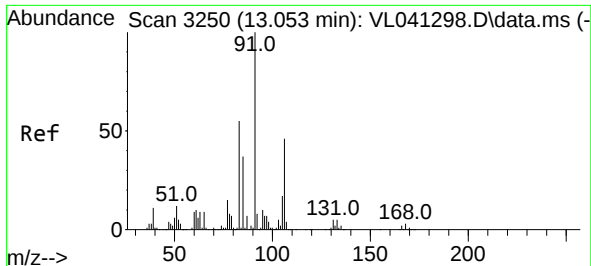
Reviewed By :Semsettin Yesilyurt 06/05/2024
Supervised By :Mahesh Dadoda 06/05/2024



#59
m/p-Xylene
Concen: 2.913 ppbv
RT: 12.336 min Scan# 3027
Delta R.T. -0.029 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56

Tgt Ion: 91 Resp: 762262
Ion Ratio Lower Upper
91 100
106 48.7 35.7 53.5





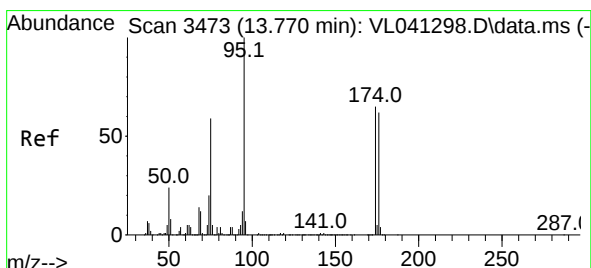
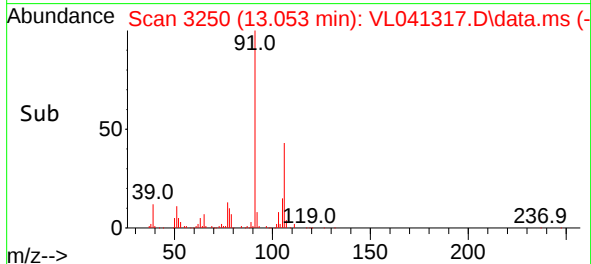
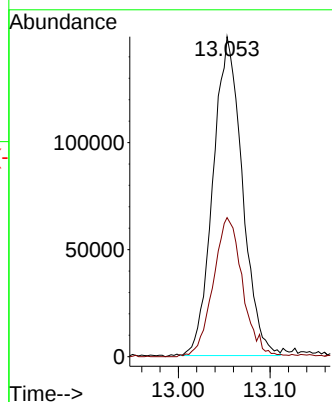
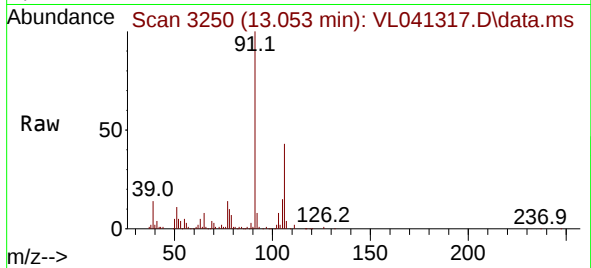
#60
o-Xylene
Concen: 1.328 ppbv
RT: 13.053 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 331412
Ion Ratio Lower Upper
91 100
106 43.8 22.8 68.4

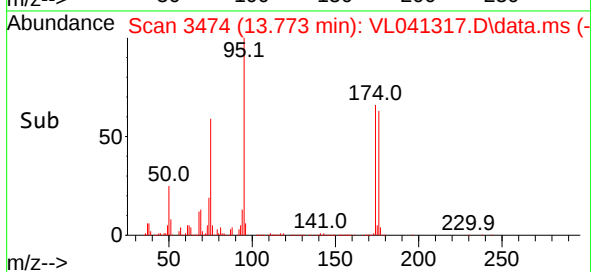
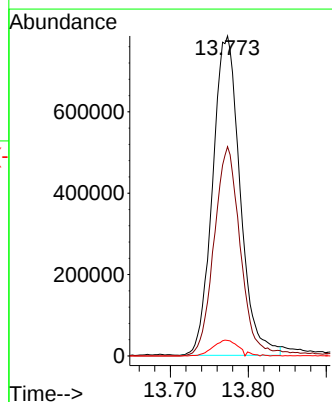
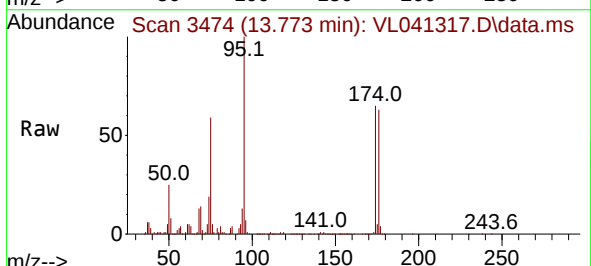
Manual Integrations
APPROVED

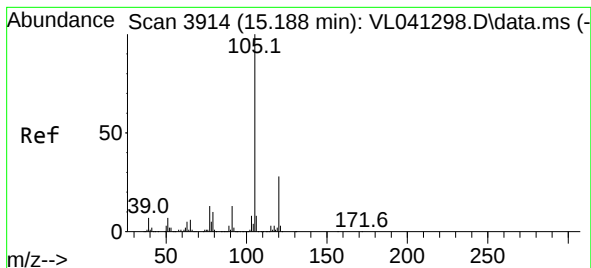
Reviewed By :Semsettin Yesilyurt 06/05/2024
Supervised By :Mahesh Dadoda 06/05/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.447 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. 0.003 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56

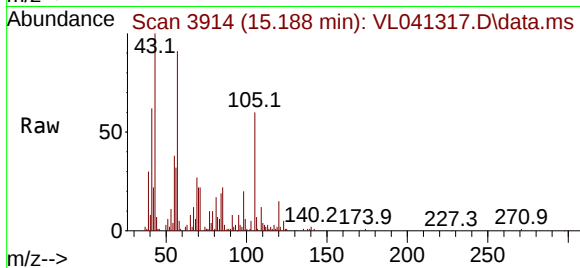
Tgt Ion: 95 Resp: 1922172
Ion Ratio Lower Upper
95 100
174 64.8 52.2 78.2
175 4.7 4.1 6.1





#72
4-Ethyltoluene
Concen: 0.150 ppbv
RT: 15.188 min Scan# 3914
Delta R.T. -0.000 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56

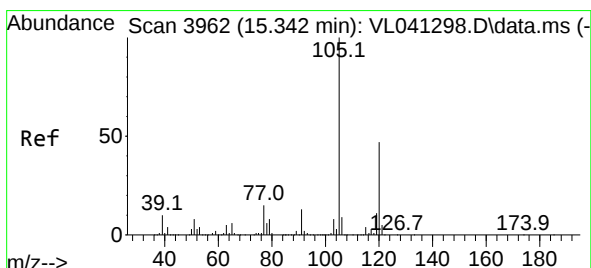
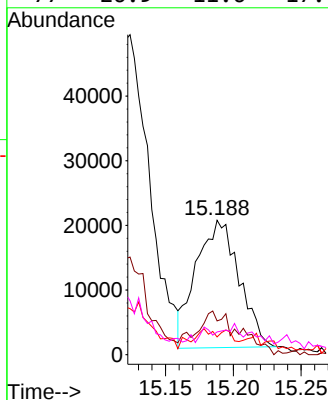
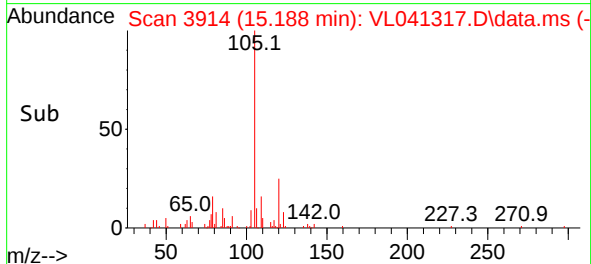
Instrument :
MSVOA_L
ClientSampleId :
SV1



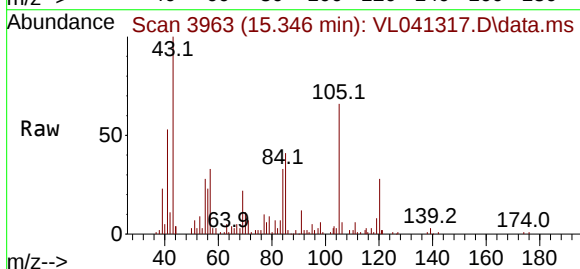
Tgt Ion:105 Resp: 43460
Ion Ratio Lower Upper
105 100
120 36.7 23.7 35.5
91 17.4 10.6 16.0
77 26.9 11.6 17.4#

Manual Integrations
APPROVED

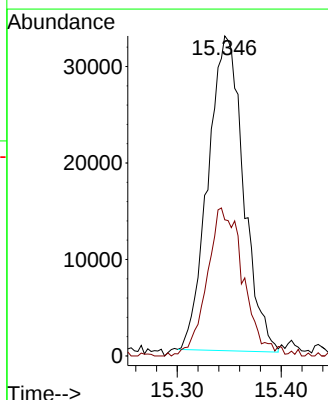
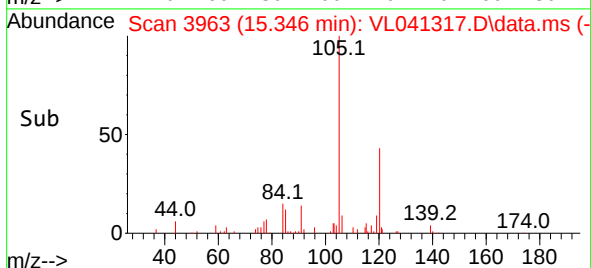
Reviewed By :Semsettin Yesilyurt 06/05/2024
Supervised By :Mahesh Dadoda 06/05/2024

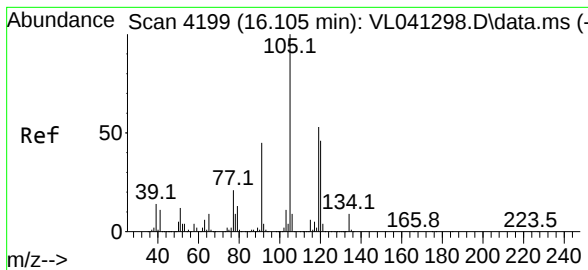


#73
1,3,5-Trimethylbenzene
Concen: 0.307 ppbv
RT: 15.346 min Scan# 3963
Delta R.T. 0.003 min
Lab File: VL041317.D
Acq: 4 Jun 2024 23:56



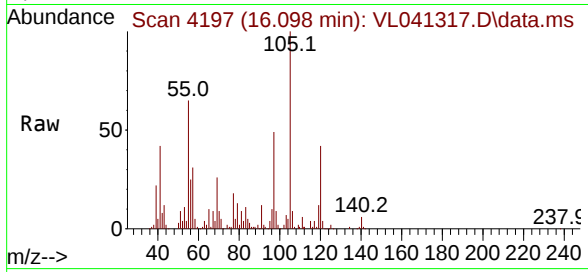
Tgt Ion:105 Resp: 77462
Ion Ratio Lower Upper
105 100
120 45.6 37.8 56.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.716 ppbv
 RT: 16.098 min Scan# 4199
 Delta R.T. -0.007 min
 Lab File: VL041317.D
 Acq: 4 Jun 2024 23:56

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:105 Resp: 204169

Ion	Ratio	Lower	Upper
105	100		
120	42.0	37.0	55.6
91	11.2	36.2	54.4
77	15.3	16.6	24.8

Manual Integrations
 APPROVED

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

