

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041550.D
 Acq On : 19 Aug 2024 16:25
 Operator : SY/MD
 Sample : P3658-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVI

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/20/2024
 Supervised By :Mahesh Dadoda 08/20/2024

Quant Time: Aug 20 02:18:44 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 20 02:18:44 2024

QLast Update : Tue Aug 20 02:10:04 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	1029484	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2764447	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.491	117	2563772	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	2012941	10.203	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.748	85	18794	0.106	ppbv	99
3) Chlorodifluoromethane	2.694	51	13302m	0.109	ppbv	
9) Propene	2.719	41	138081	2.453	ppbv #	80
10) Heptane	7.600	43	672215	5.314	ppbv	100
13) Ethanol	3.269	45	41454	8.238	ppbv	87
15) Acetone	3.488	43	867764	7.419	ppbv #	50
17) tert-Butyl alcohol	3.906	59	39442m	0.370	ppbv	
20) Methylene Chloride	3.951	84	622634	14.274	ppbv	97
26) Hexane	5.234	57	2868931	29.761	ppbv #	37
27) Carbon Disulfide	4.147	76	30166	0.267	ppbv #	84
29) Chloroform	5.295	83	39876	0.254	ppbv	88
30) Cyclohexane	6.623	84	14841m	0.189	ppbv	
32) 1,1,1-Trichloroethane	6.018	97	5305m	0.035	ppbv	
34) 2-Butanone	4.806	43	1674694	12.523	ppbv	98
36) Benzene	6.391	78	110379	0.546	ppbv	97
38) Trichloroethene	7.317	130	7915m	0.086	ppbv	
51) 2-Hexanone	9.571	43	417715m	2.618	ppbv	
52) Tetrachloroethene	10.635	164	11990m	0.154	ppbv	
53) Toluene	9.240	91	630889	2.804	ppbv	99
58) Ethyl Benzene	12.111	91	230247	0.779	ppbv	97
59) m/p-Xylene	12.365	91	960575	3.766	ppbv	96
60) o-Xylene	13.076	91	332473	1.378	ppbv	99
64) n-propylbenzene	14.934	120	23536m	0.245	ppbv	
65) tert-Butylbenzene	16.130	119	59420m	0.179	ppbv	
72) 4-Ethyltoluene	15.214	105	160153	0.564	ppbv	97
73) 1,3,5-Trimethylbenzene	15.375	105	91500	0.374	ppbv	99
74) 1,2,4-Trimethylbenzene	16.124	105	516352	1.815	ppbv #	70
79) Naphthalene	21.410	128	59611m	0.237	ppbv	

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

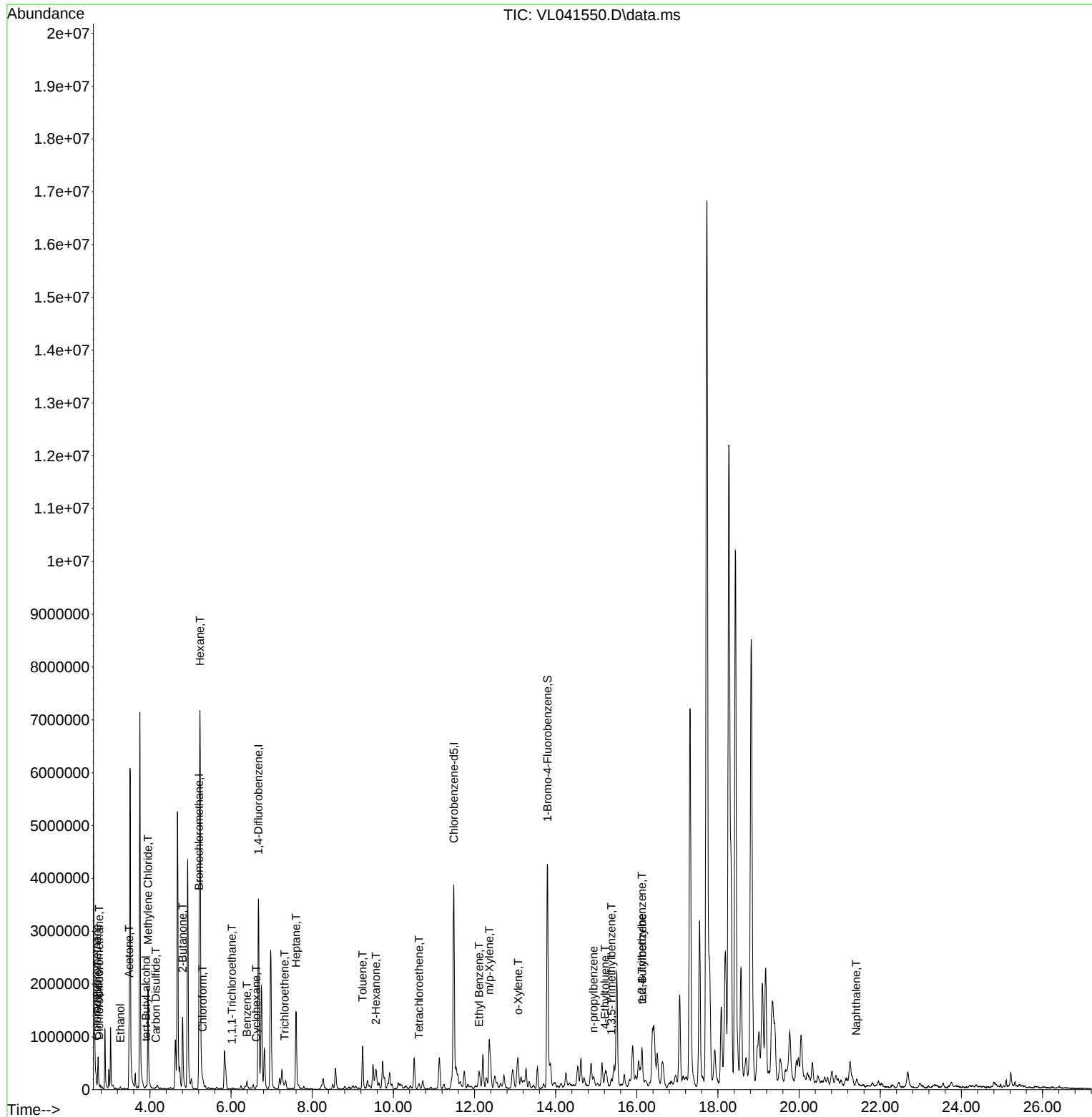
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
Data File : VL041550.D
Acq On : 19 Aug 2024 16:25
Operator : SY/MD
Sample : P3658-03 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

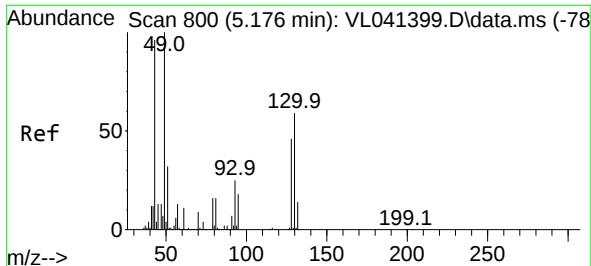
Instrument :
MSVOA_L
ClientSampleId :
SVI

Quant Time: Aug 20 02:18:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Aug 20 02:10:04 2024
Response via : Initial Calibration

Manual Integrations
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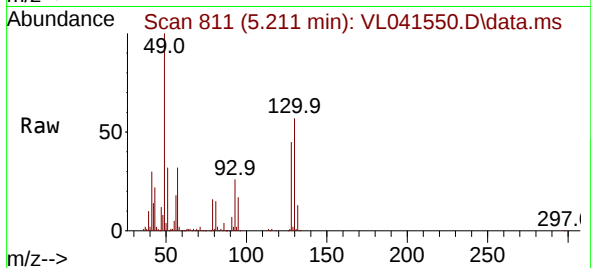
Reviewed By : Semsettin Yesilyurt 08/20/2024
Supervised By : Mahesh Dadoda 08/20/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

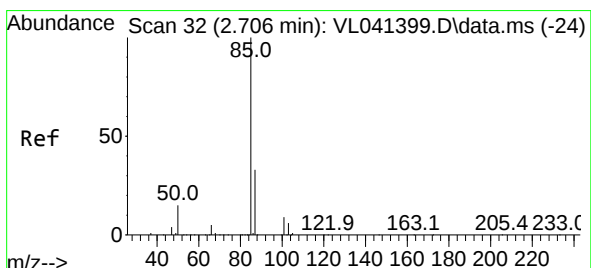
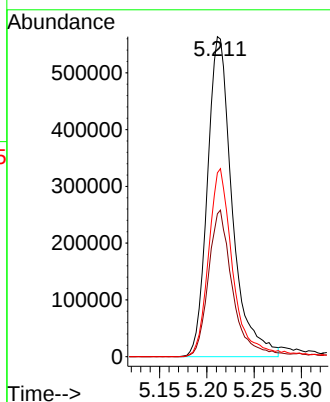
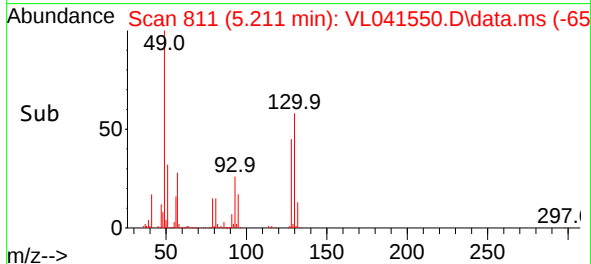
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 49 Resp: 102948
Ion Ratio Lower Upper
49 100
128 45.9 23.8 71.4
130 59.5 30.8 92.4

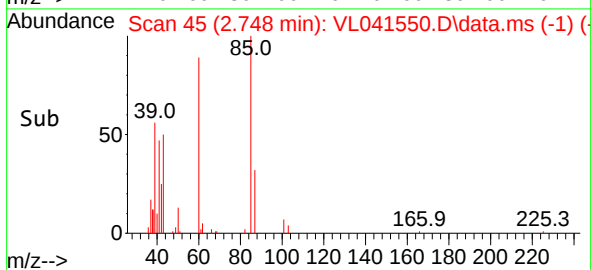
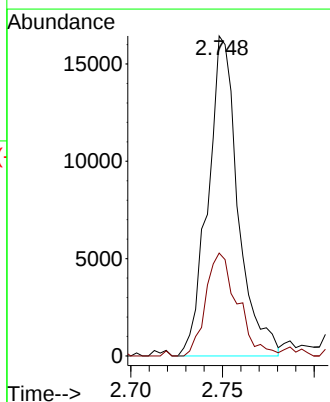
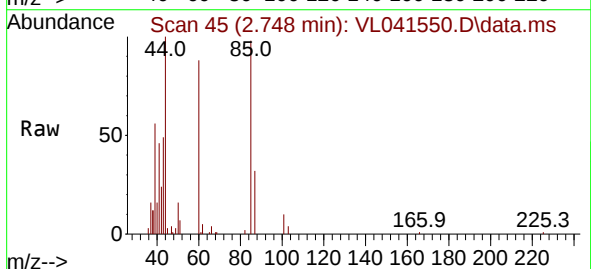
Manual Integrations
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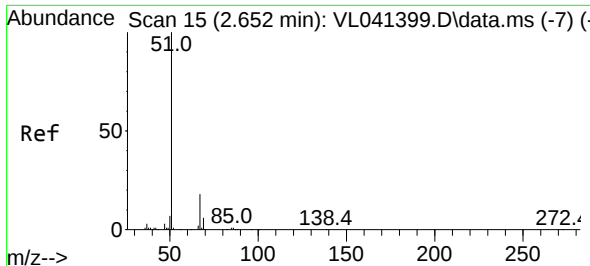
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#2
Dichlorodifluoromethane
Concen: 0.106 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

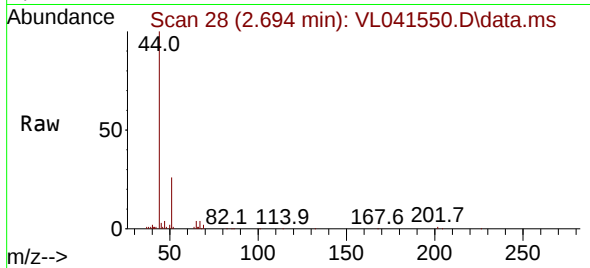
Tgt Ion: 85 Resp: 18794
Ion Ratio Lower Upper
85 100
87 32.2 26.0 39.0





#3
Chlorodifluoromethane
Concen: 0.109 ppbv m
RT: 2.694 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

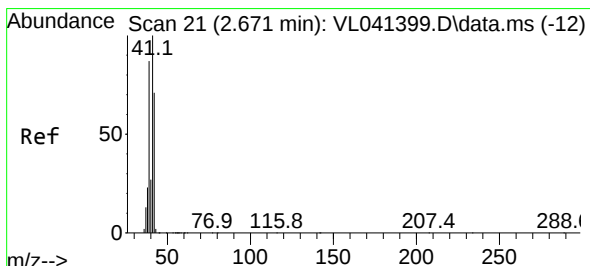
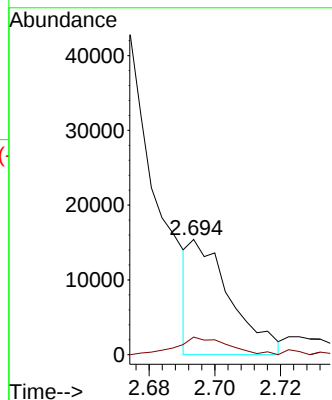
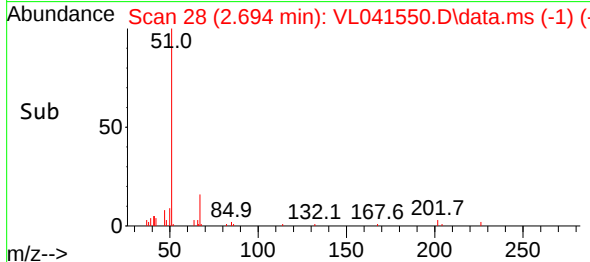
Instrument :
MSVOA_L
ClientSampleId :
SVI



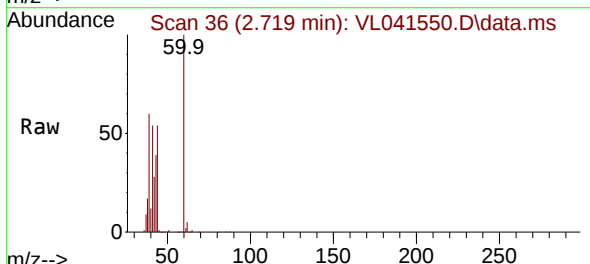
Tgt Ion: 51 Resp: 13302
Ion Ratio Lower Upper
51 100
67 22.7 14.5 21.75

Manual Integrations
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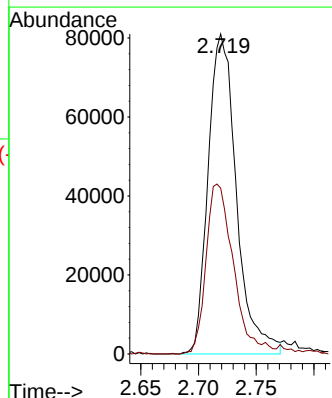
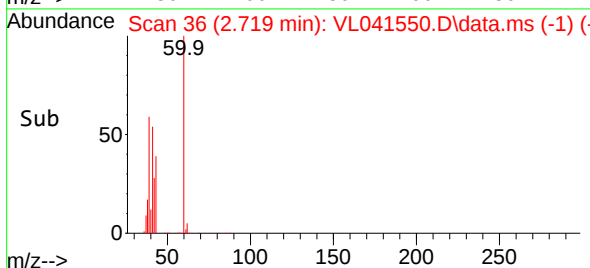
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024

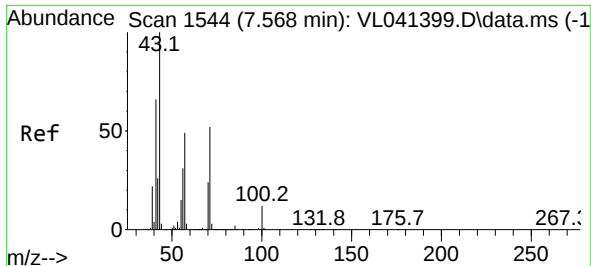


#9
Propene
Concen: 2.453 ppbv
RT: 2.719 min Scan# 36
Delta R.T. 0.006 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25



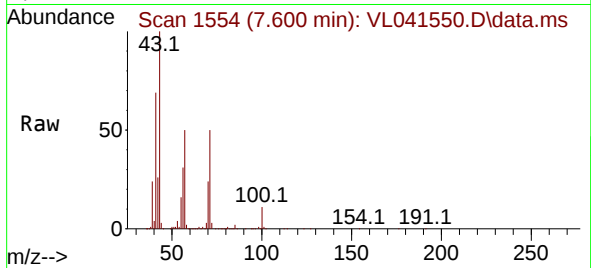
Tgt Ion: 41 Resp: 138081
Ion Ratio Lower Upper
41 100
42 53.2 55.9 83.9#





#10
Heptane
Concen: 5.314 ppbv
RT: 7.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

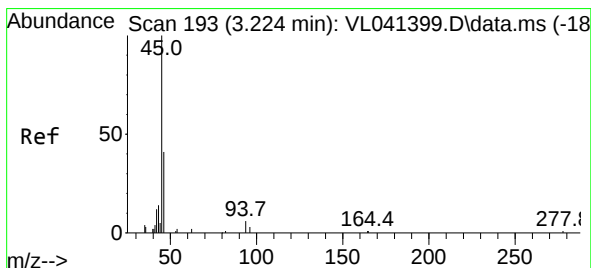
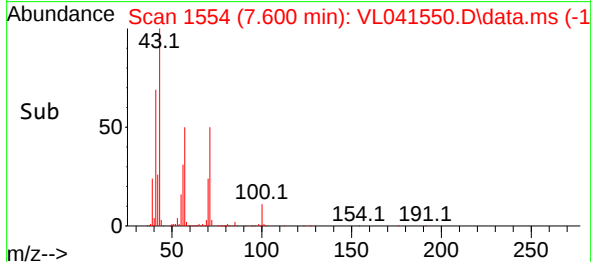
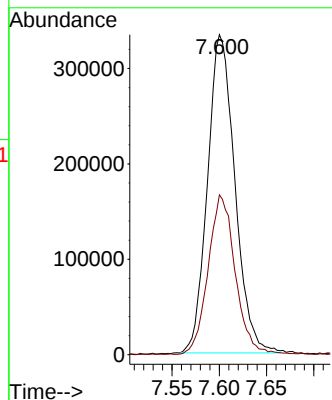
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 43 Resp: 672215
Ion Ratio Lower Upper
43 100
57 50.3 40.5 60.7

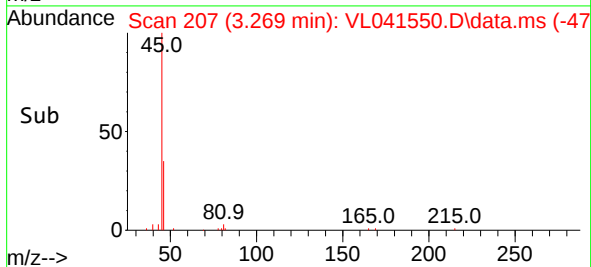
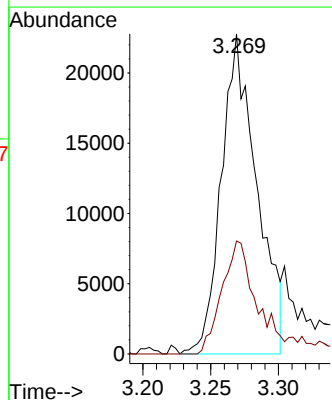
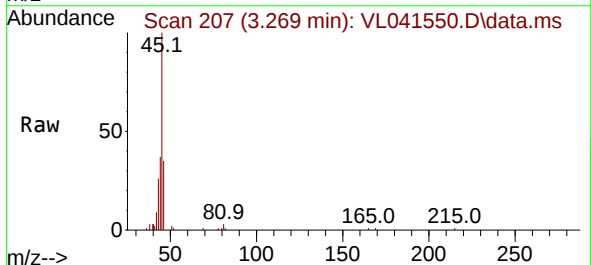
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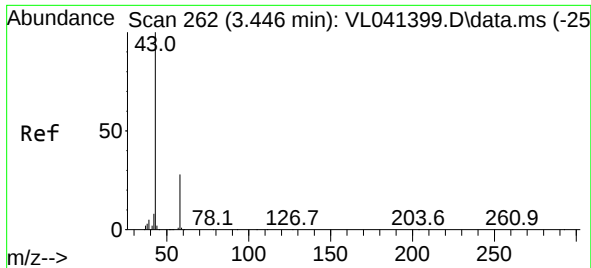
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#13
Ethanol
Concen: 8.238 ppbv
RT: 3.269 min Scan# 207
Delta R.T. 0.013 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

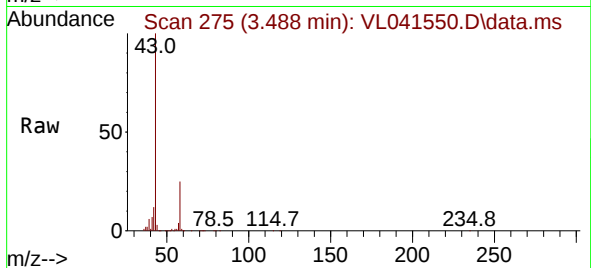
Tgt Ion: 45 Resp: 41454
Ion Ratio Lower Upper
45 100
46 40.6 13.4 53.4





#15
Acetone
Concen: 7.419 ppbv
RT: 3.488 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

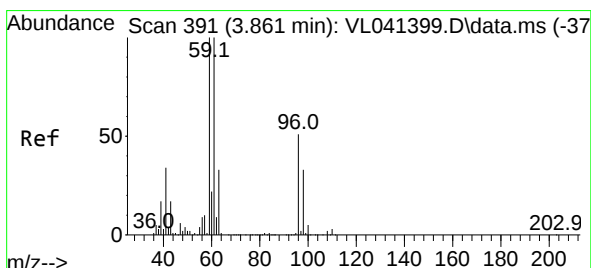
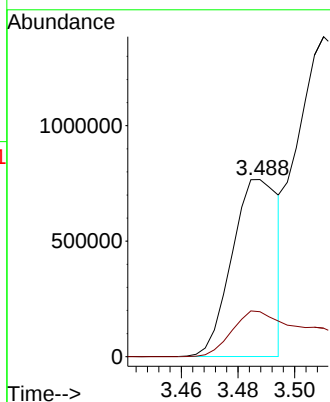
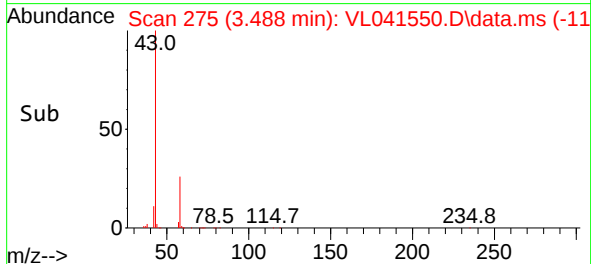
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 43 Resp: 867764
Ion Ratio Lower Upper
43 100
58 52.5 21.4 32.25

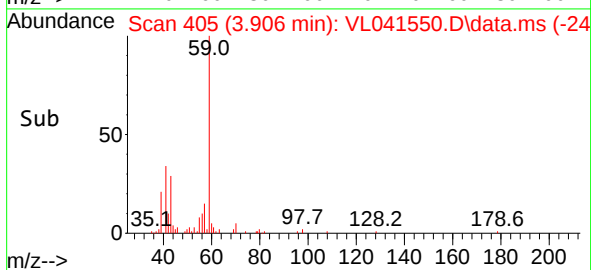
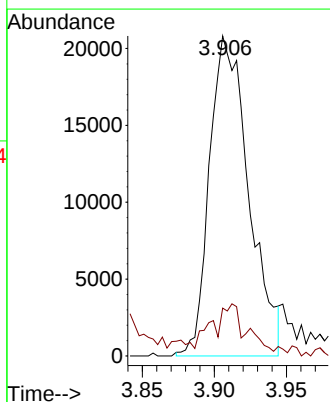
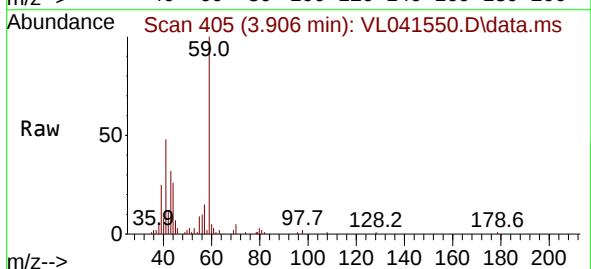
Manual Integrations
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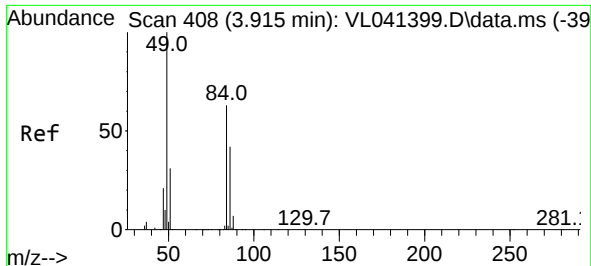
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#17
tert-Butyl alcohol
Concen: 0.370 ppbv m
RT: 3.906 min Scan# 405
Delta R.T. 0.013 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

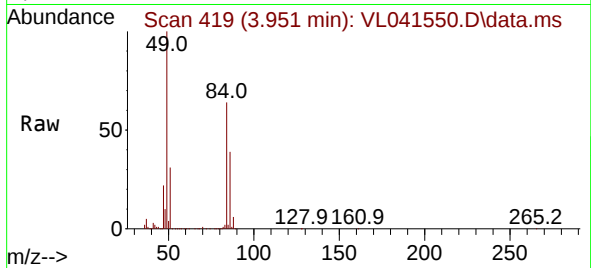
Tgt Ion: 59 Resp: 39442
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#20
Methylene Chloride
Concen: 14.274 ppbv
RT: 3.951 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

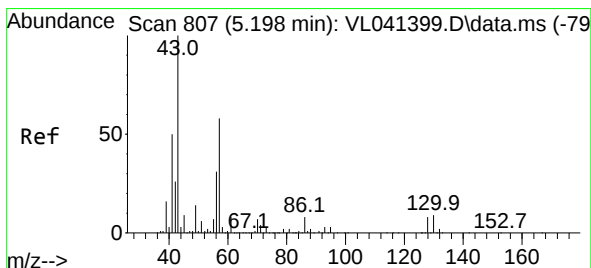
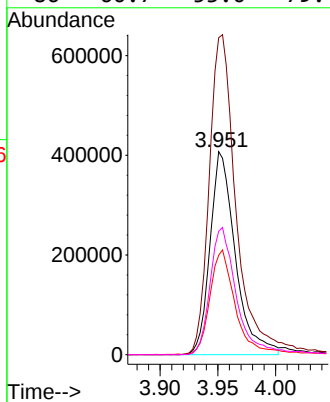
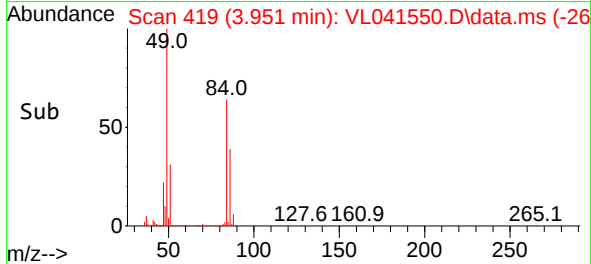
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 84 Resp: 622634
Ion Ratio Lower Upper
84 100
49 156.1 126.6 190.0
51 48.6 38.6 58.0
86 60.7 53.0 79.4

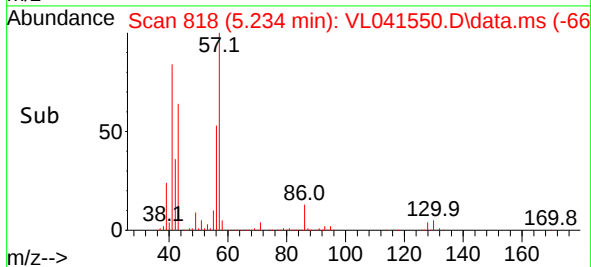
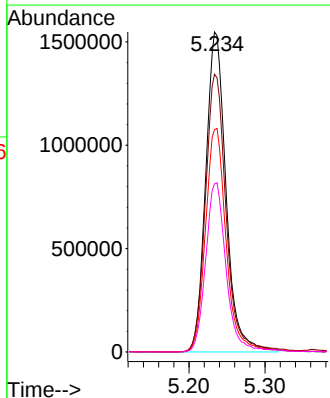
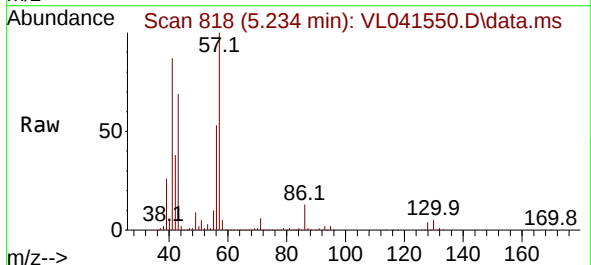
Manual Integrations
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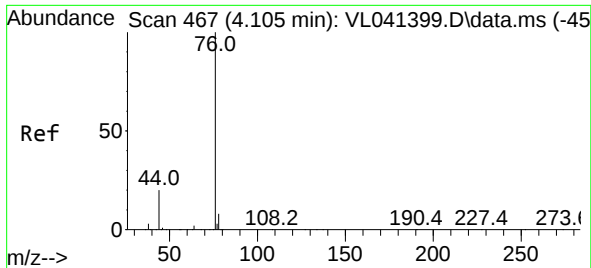
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#26
Hexane
Concen: 29.761 ppbv
RT: 5.234 min Scan# 818
Delta R.T. 0.003 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

Tgt Ion: 57 Resp: 2868931
Ion Ratio Lower Upper
57 100
41 89.3 74.0 111.0
43 70.9 193.6 290.4#
56 53.7 43.1 64.7





#27

Carbon Disulfide

Concen: 0.267 ppbv

RT: 4.147 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041550.D

Acq: 19 Aug 2024 16:25

Instrument :

MSVOA_L

ClientSampleId :

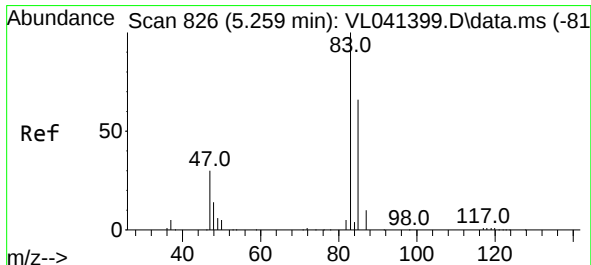
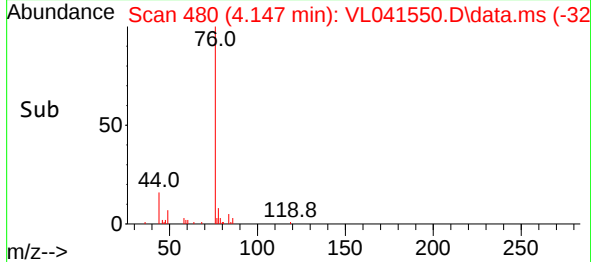
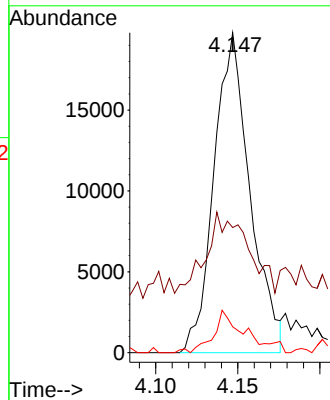
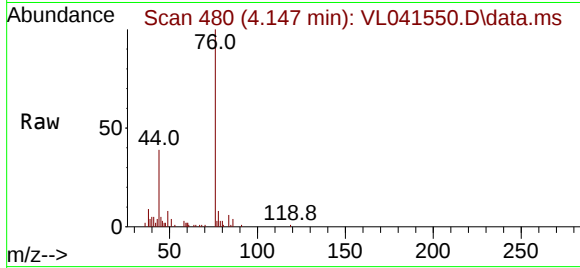
SVI

Tgt Ion: 76	Resp: 3016
Ion Ratio	Lower Upper
76	100
44	29.4 15.6 23.4
78	11.7 7.7 11.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#29

Chloroform

Concen: 0.254 ppbv

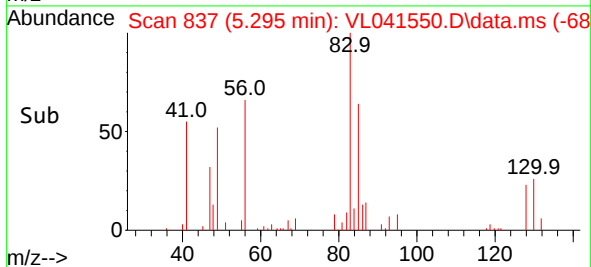
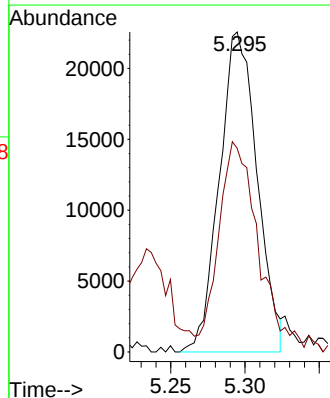
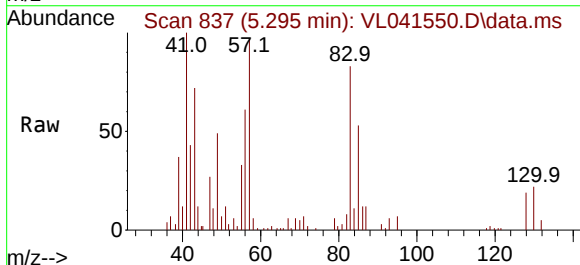
RT: 5.295 min Scan# 837

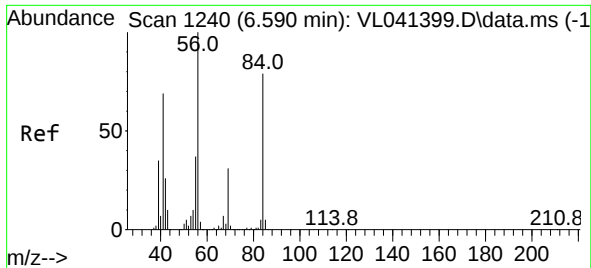
Delta R.T. 0.000 min

Lab File: VL041550.D

Acq: 19 Aug 2024 16:25

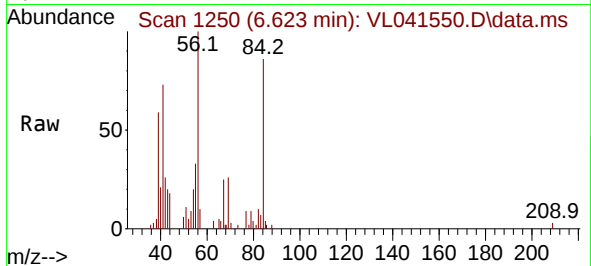
Tgt Ion: 83	Resp: 39876
Ion Ratio	Lower Upper
83	100
85	57.1 53.1 79.7





#30
Cyclohexane
Concen: 0.189 ppbv m
RT: 6.623 min Scan# 1062
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

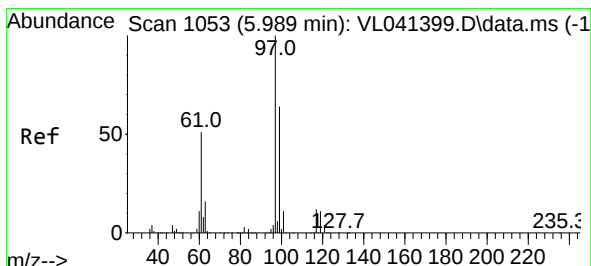
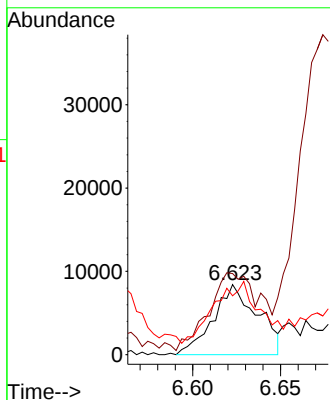
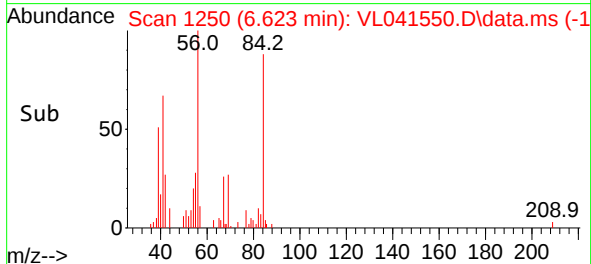
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 84 Resp: 1484
Ion Ratio Lower Upper
84 100
56 117.5 111.2 166.8
41 0.0 70.3 105.5

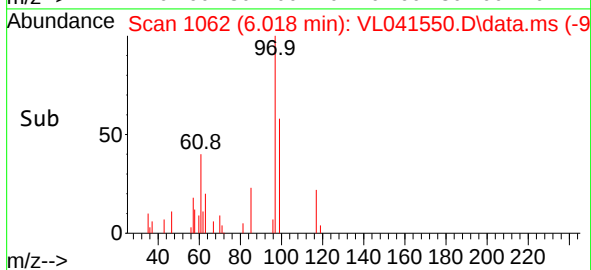
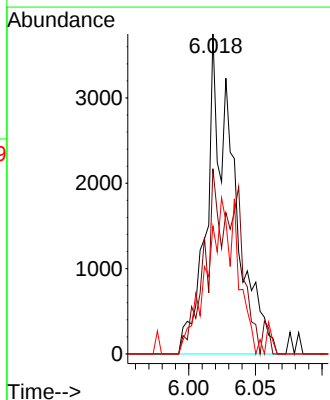
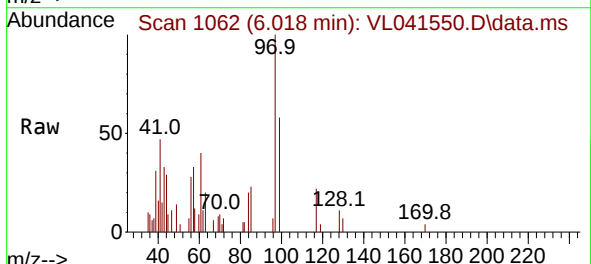
Manual Integrations
APPROVED

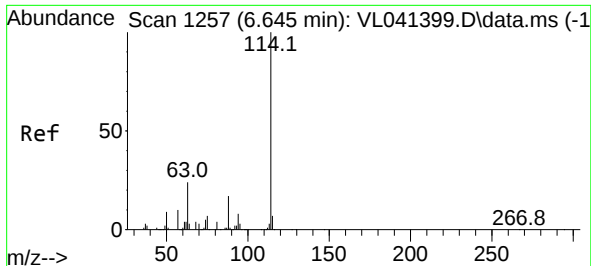
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#32
1,1,1-Trichloroethane
Concen: 0.035 ppbv m
RT: 6.018 min Scan# 1062
Delta R.T. -0.003 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

Tgt Ion: 97 Resp: 5305
Ion Ratio Lower Upper
97 100
99 69.2 52.0 78.0
61 0.0 41.8 62.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 114

Delta R.T. 0.003 min

Lab File: VL041550.D

Acq: 19 Aug 2024 16:25

Instrument :

MSVOA_L

ClientSampleId :

SVI

Tgt Ion:114 Resp: 276444

Ion Ratio Lower Upper

114 100

63 25.1 20.3 30.5

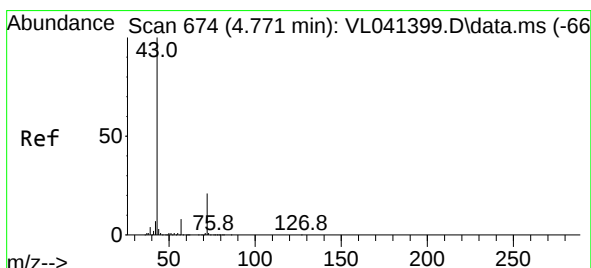
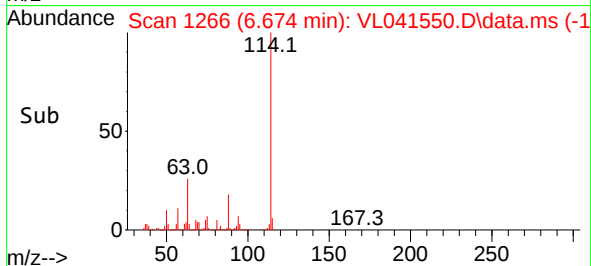
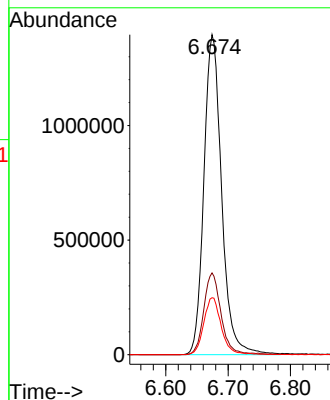
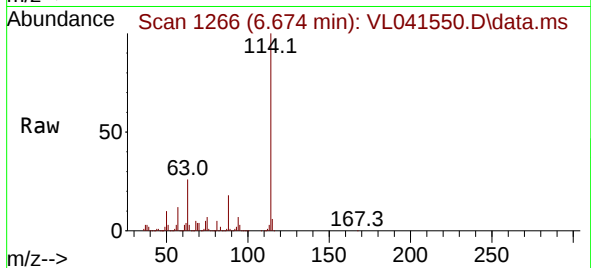
88 17.7 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/20/2024

Supervised By :Mahesh Dadoda 08/20/2024



#34

2-Butanone

Concen: 12.523 ppbv

RT: 4.806 min Scan# 685

Delta R.T. 0.003 min

Lab File: VL041550.D

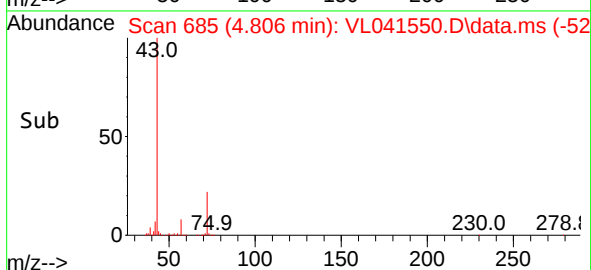
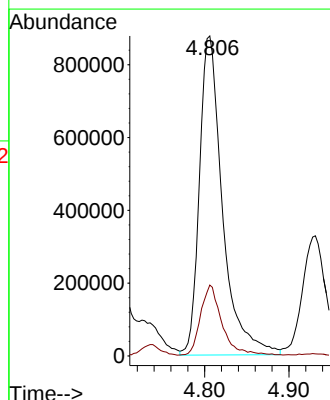
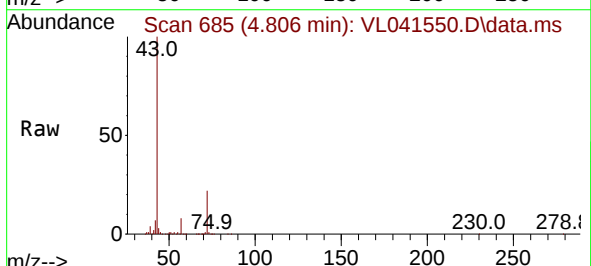
Acq: 19 Aug 2024 16:25

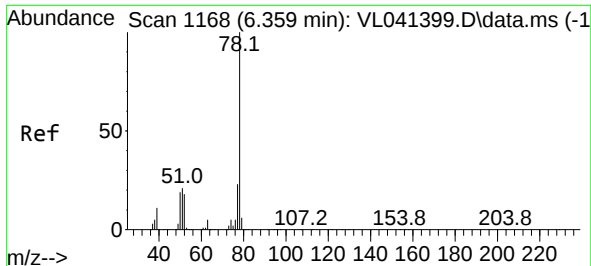
Tgt Ion: 43 Resp: 1674694

Ion Ratio Lower Upper

43 100

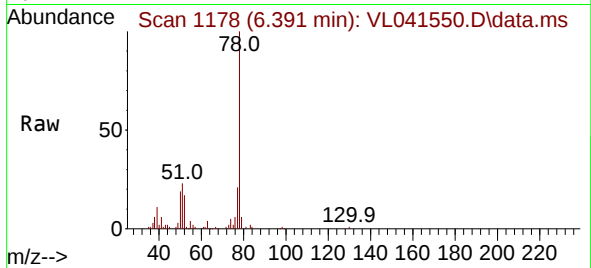
72 20.9 17.3 25.9





#36
Benzene
Concen: 0.546 ppbv
RT: 6.391 min Scan# 1168
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

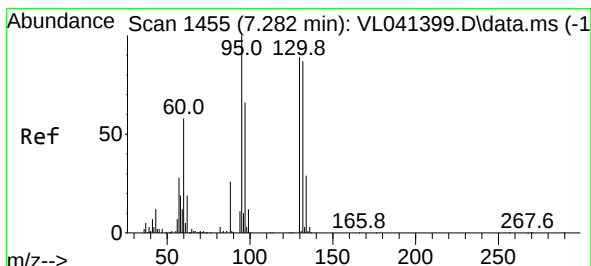
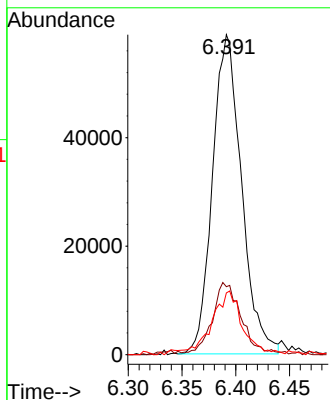
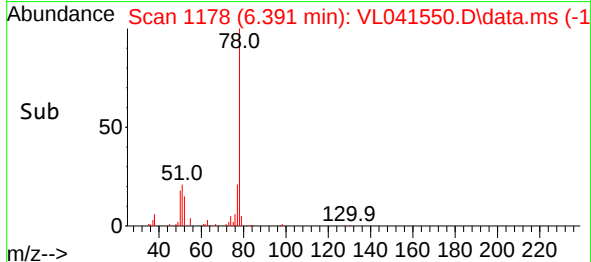
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 78 Resp: 110379
Ion Ratio Lower Upper
78 100
77 20.5 18.1 27.1
50 18.4 15.5 23.3

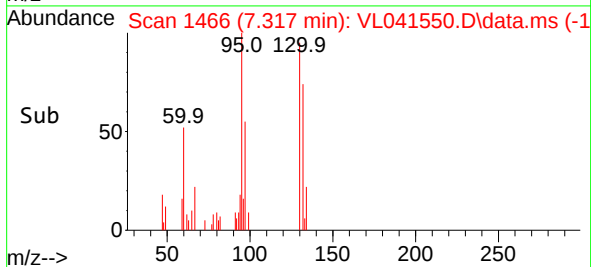
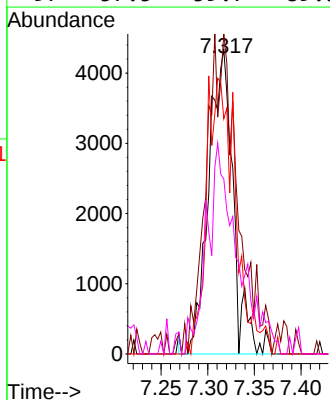
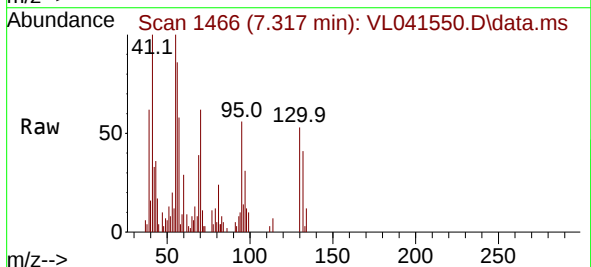
Manual Integrations
APPROVED

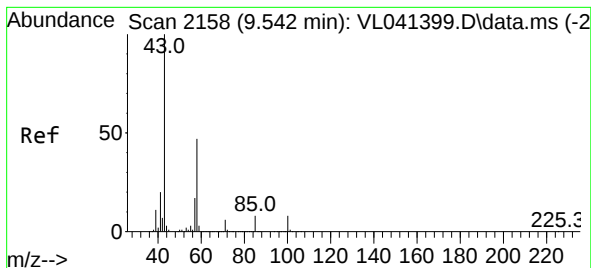
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#38
Trichloroethene
Concen: 0.086 ppbv m
RT: 7.317 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

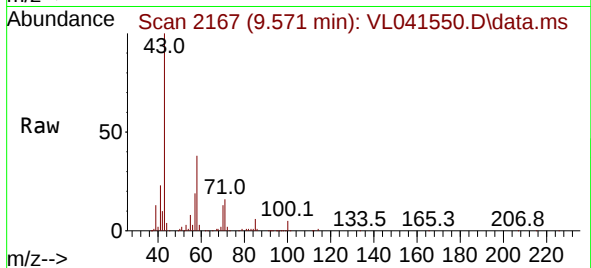
Tgt Ion:130 Resp: 7915
Ion Ratio Lower Upper
130 100
95 105.0 90.2 135.2
132 77.2 78.1 117.1#
97 57.5 59.7 89.5#





#51
2-Hexanone
Concen: 2.618 ppbv m
RT: 9.571 min Scan# 2158
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

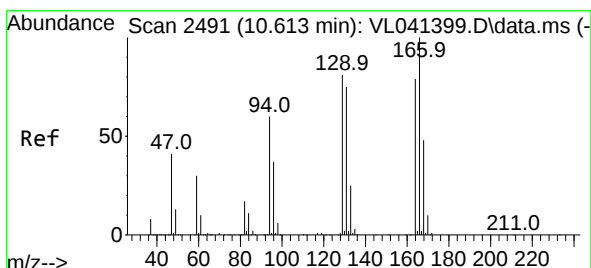
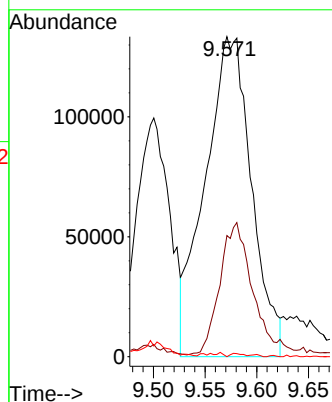
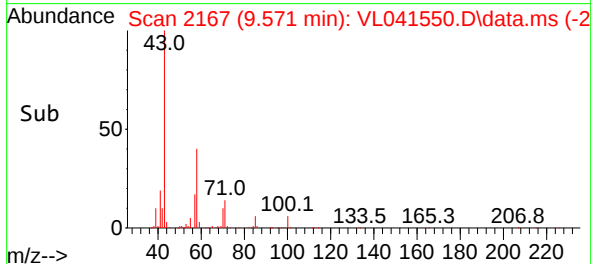
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 43 Resp: 41771
Ion Ratio Lower Upper
43 100
58 31.5 38.2 57.2
98 0.0 0.3 0.5

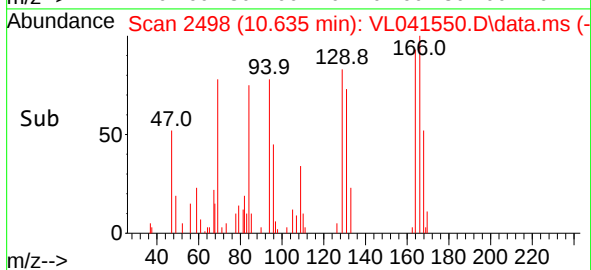
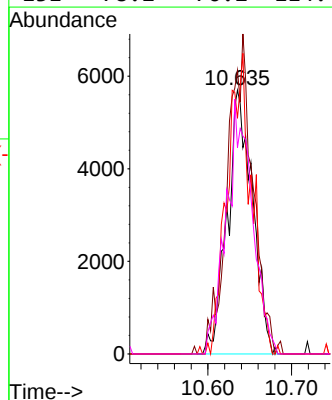
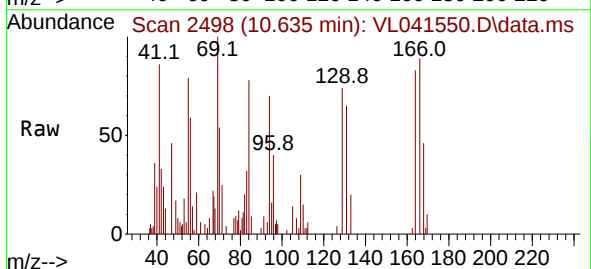
Manual Integrations
APPROVED

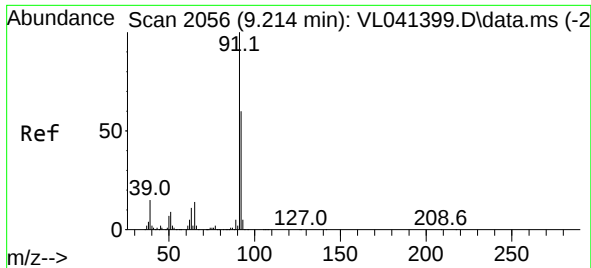
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#52
Tetrachloroethene
Concen: 0.154 ppbv m
RT: 10.635 min Scan# 2498
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

Tgt Ion:164 Resp: 11990
Ion Ratio Lower Upper
164 100
166 107.6 101.1 151.7
129 89.3 81.7 122.5
131 78.2 76.2 114.4





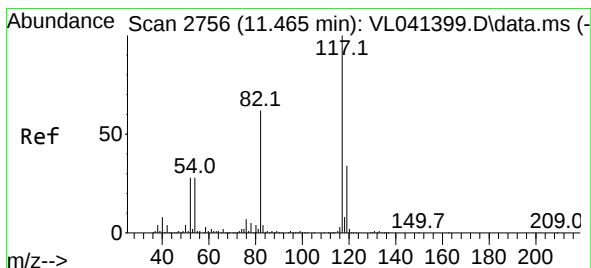
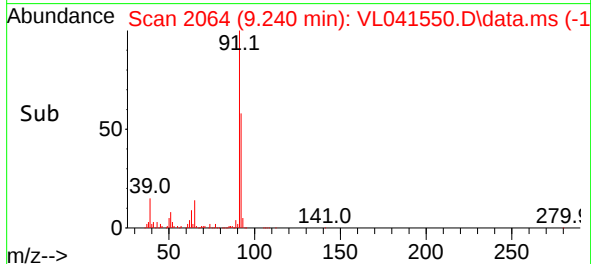
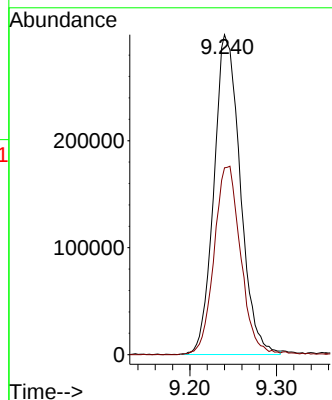
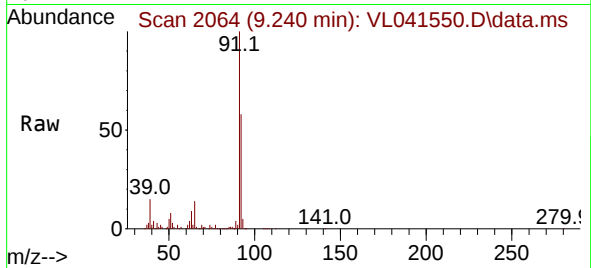
#53
Toluene
Concen: 2.804 ppbv
RT: 9.240 min Scan# 2056
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

Instrument :
MSVOA_L
ClientSampleId :
SVI

Tgt Ion: 91 Resp: 630889
Ion Ratio Lower Upper
91 100
92 60.2 48.7 73.1

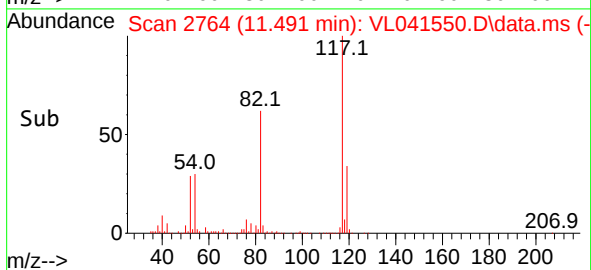
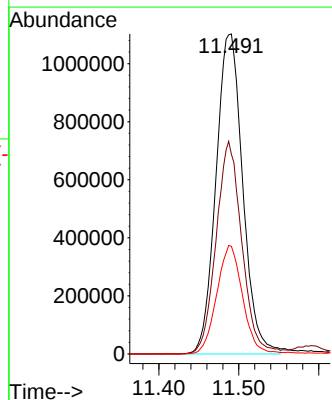
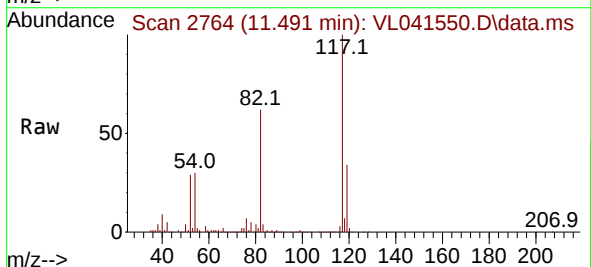
Manual Integrations
APPROVED

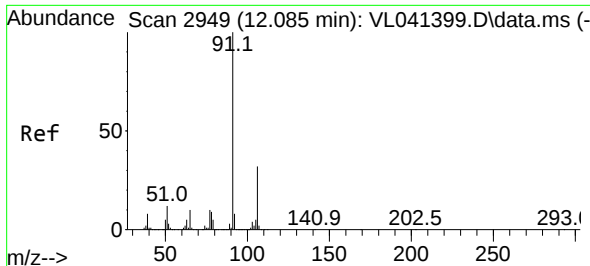
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.491 min Scan# 2764
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

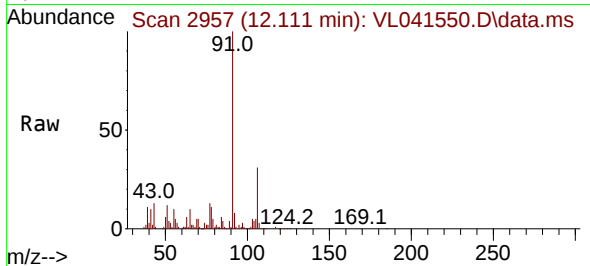
Tgt Ion:117 Resp: 2563772
Ion Ratio Lower Upper
117 100
82 63.8 51.0 76.6
119 33.0 45.2 67.8#





#58
Ethyl Benzene
Concen: 0.779 ppbv
RT: 12.111 min Scan# 2949
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

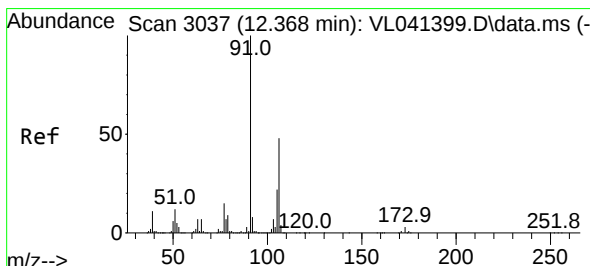
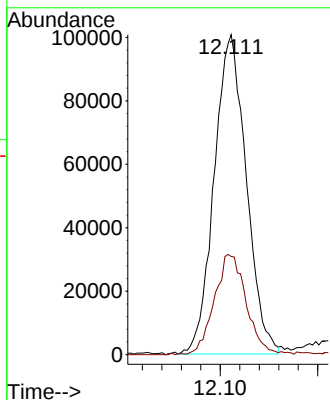
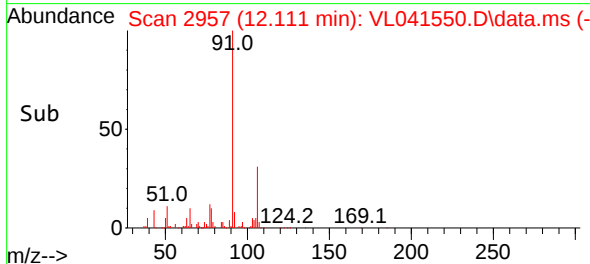
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 91 Resp: 23024
Ion Ratio Lower Upper
91 100
106 30.5 25.8 38.8

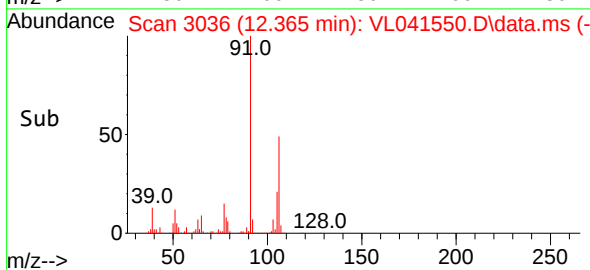
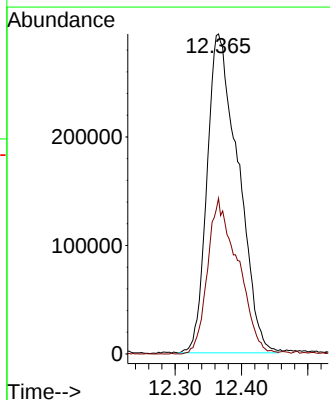
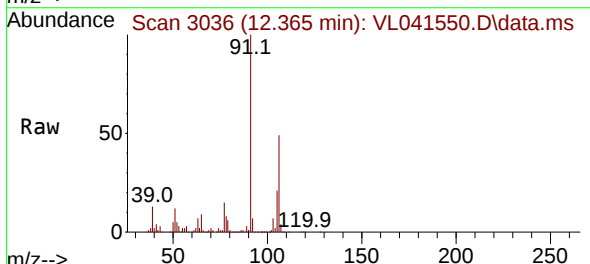
Manual Integrations
APPROVED

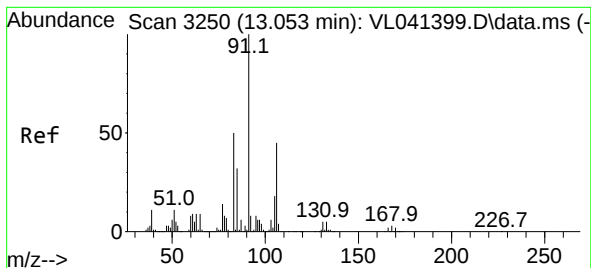
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#59
m/p-Xylene
Concen: 3.766 ppbv
RT: 12.365 min Scan# 3036
Delta R.T. -0.029 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

Tgt Ion: 91 Resp: 960575
Ion Ratio Lower Upper
91 100
106 48.1 36.3 54.5





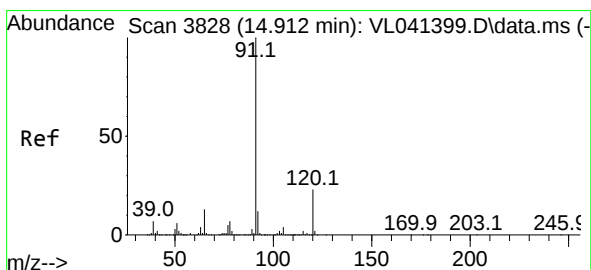
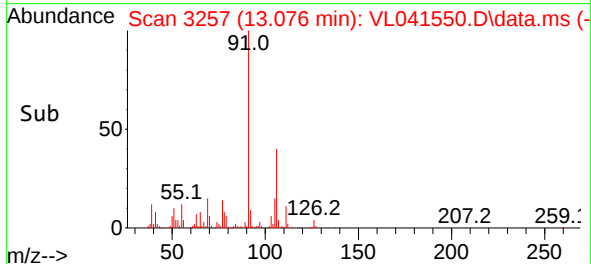
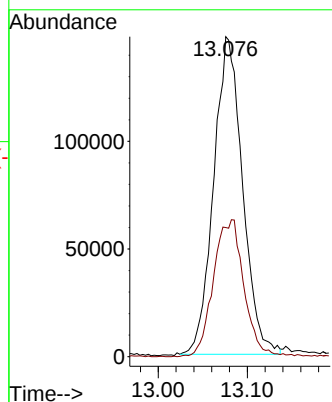
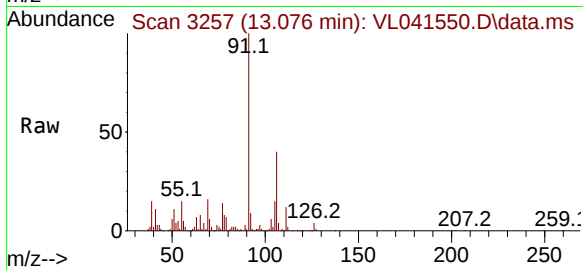
#60
o-Xylene
Concen: 1.378 ppbv
RT: 13.076 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

Instrument :
MSVOA_L
ClientSampleId :
SVI

Tgt Ion: 91 Resp: 33247
Ion Ratio Lower Upper
91 100
106 45.8 23.1 69.3

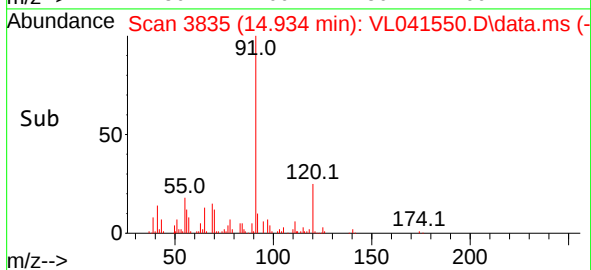
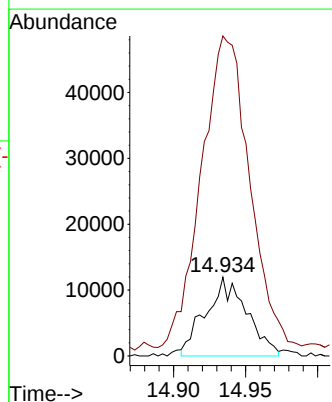
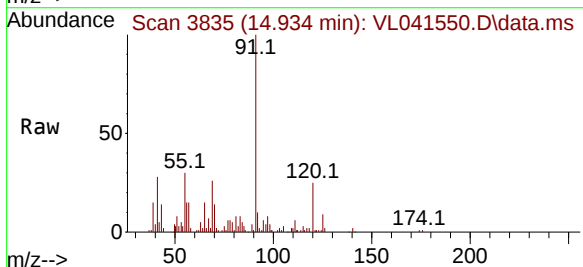
Manual Integrations
APPROVED

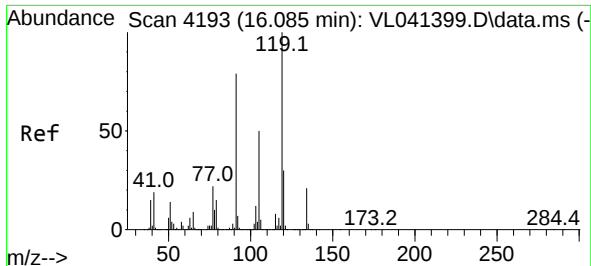
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#64
n-propylbenzene
Concen: 0.245 ppbv m
RT: 14.934 min Scan# 3835
Delta R.T. -0.003 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

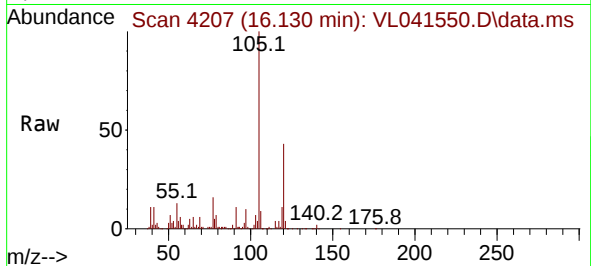
Tgt Ion:120 Resp: 23536
Ion Ratio Lower Upper
120 100
91 0.0 361.4 542.0#





#65
tert-Butylbenzene
Concen: 0.179 ppbv m
RT: 16.130 min Scan# 4193
Delta R.T. 0.019 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

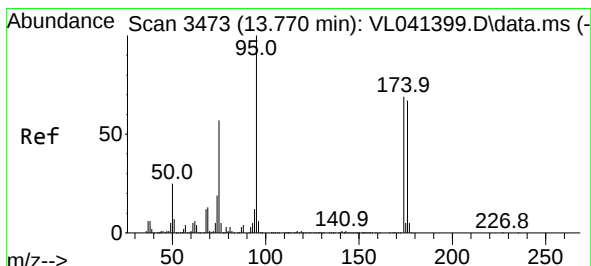
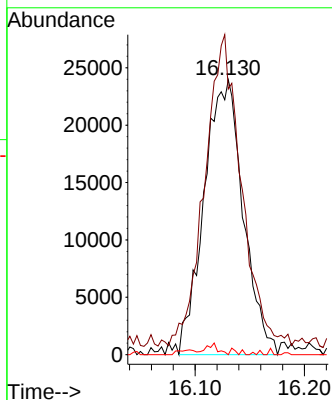
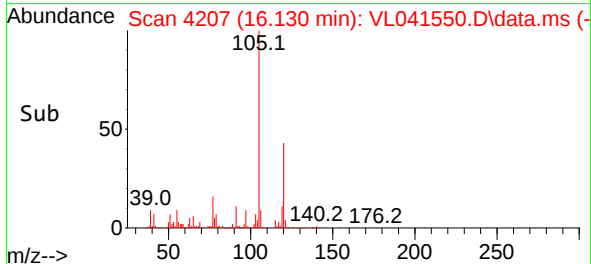
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion: 119 Resp: 59420
Ion Ratio Lower Upper
119 100
91 0.0 64.2 96.2
134 2.3 15.7 23.5

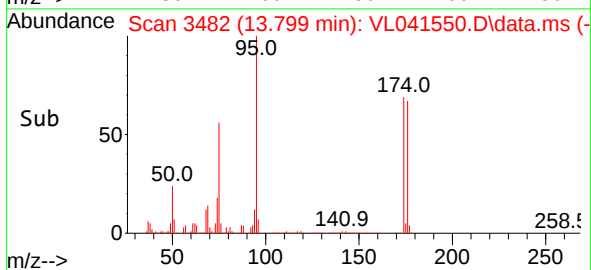
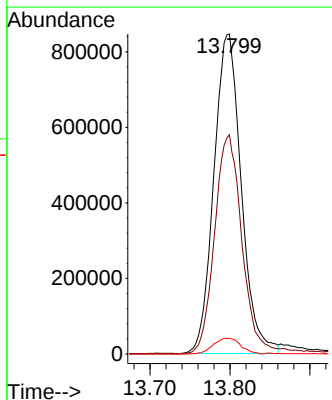
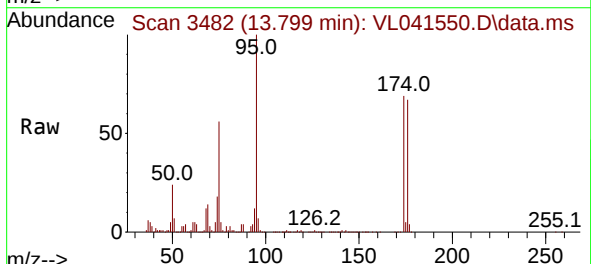
Manual Integrations
APPROVED

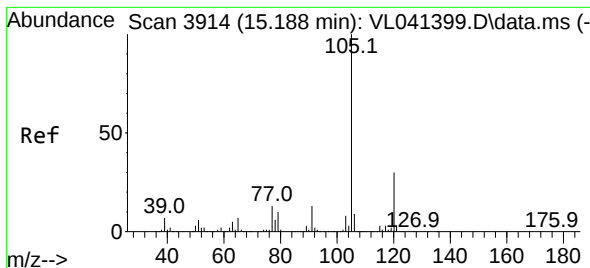
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.203 ppbv
RT: 13.799 min Scan# 3482
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

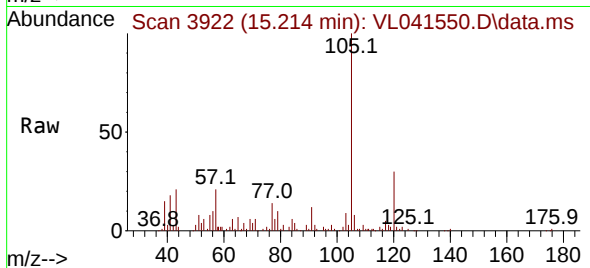
Tgt Ion: 95 Resp: 2012941
Ion Ratio Lower Upper
95 100
174 69.6 56.3 84.5
175 5.1 4.0 6.0





#72
4-Ethyltoluene
Concen: 0.564 ppbv
RT: 15.214 min Scan# 3914
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

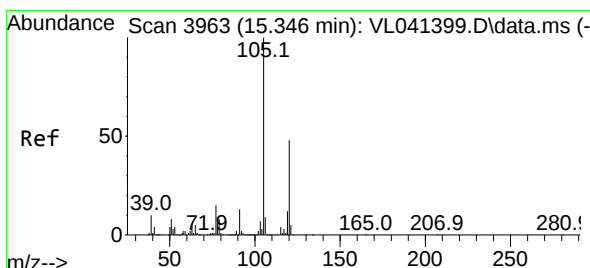
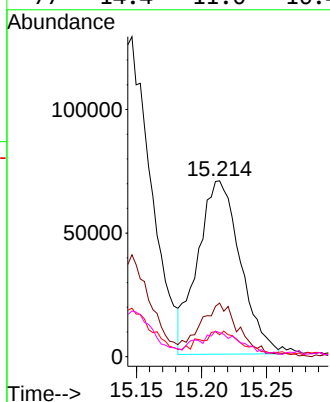
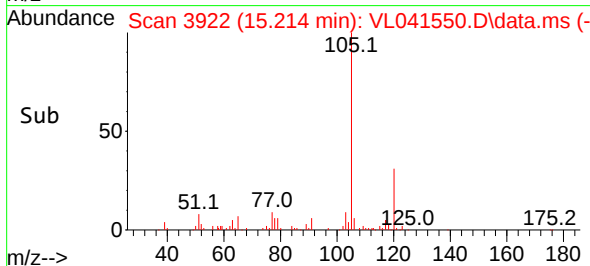
Instrument :
MSVOA_L
ClientSampleId :
SVI



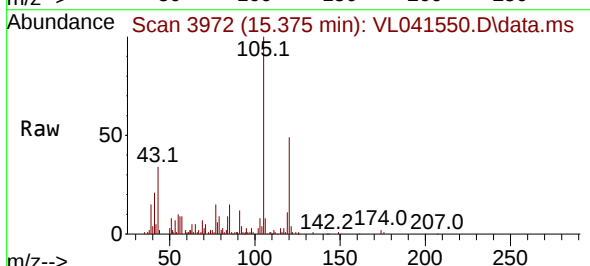
Tgt Ion:105 Resp: 16015
Ion Ratio Lower Upper
105 100
120 27.9 24.2 36.2
91 12.8 10.4 15.6
77 14.4 11.0 16.4

Manual Integrations
APPROVED

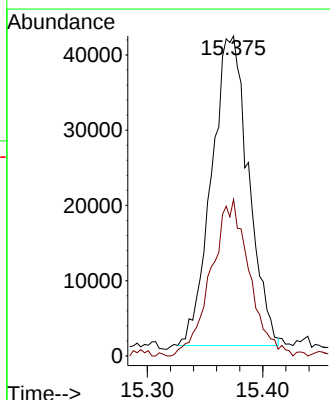
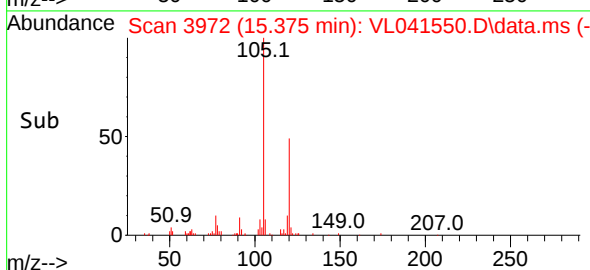
Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024

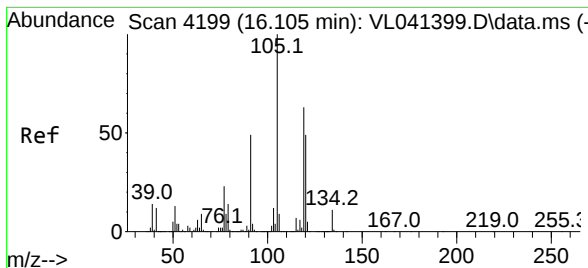


#73
1,3,5-Trimethylbenzene
Concen: 0.374 ppbv
RT: 15.375 min Scan# 3972
Delta R.T. 0.003 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25



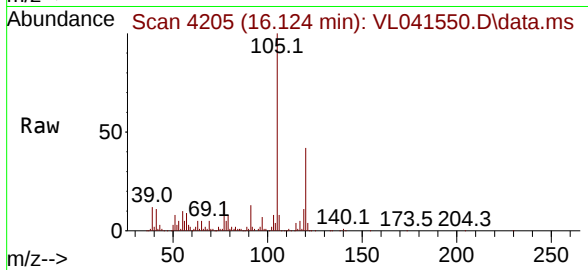
Tgt Ion:105 Resp: 91500
Ion Ratio Lower Upper
105 100
120 48.6 38.6 57.8





#74
1,2,4-Trimethylbenzene
Concen: 1.815 ppbv
RT: 16.124 min Scan# 4199
Delta R.T. -0.003 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

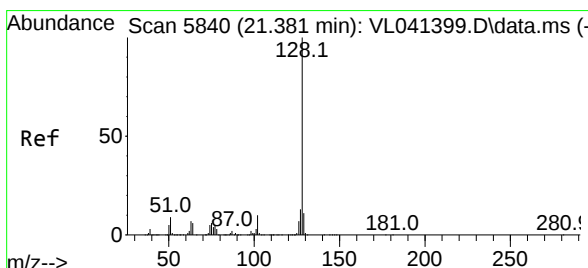
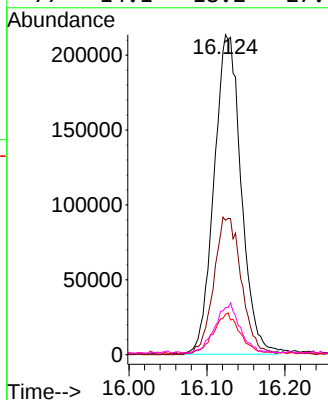
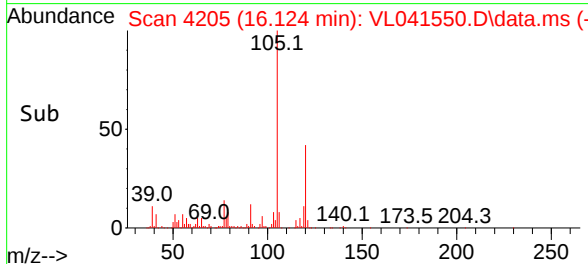
Instrument :
MSVOA_L
ClientSampleId :
SVI



Tgt Ion:105 Resp: 51635
Ion Ratio Lower Upper
105 100
120 42.0 39.5 59.3
91 12.2 39.8 59.8
77 14.1 18.2 27.4#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/20/2024
Supervised By :Mahesh Dadoda 08/20/2024



#79
Naphthalene
Concen: 0.237 ppbv m
RT: 21.410 min Scan# 5849
Delta R.T. 0.000 min
Lab File: VL041550.D
Acq: 19 Aug 2024 16:25

Tgt Ion:128 Resp: 59611
Ion Ratio Lower Upper
128 100
127 13.9 10.3 15.5
129 10.6 9.0 13.4

