

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080923\
 Data File : VL040625.D
 Acq On : 10 Aug 2023 8:38
 Operator : SY/MD
 Sample : 03950-02RE 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2RE

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/10/2023
 Supervised By :Mahesh Dadoda 08/10/2023

Quant Time: Aug 10 10:07:11 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 10 2023

QLast Update : Mon Jul 10 16:32:00 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	1018104	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2583531	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2419737	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.818	95	1927432	10.065	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.719	85	48393	0.238	ppbv	95
4) Chloromethane	2.851	50	21770	0.341	ppbv #	46
8) Dichlorotetrafluoroethane	2.851	85	163536	0.976	ppbv	96
11) Trichlorofluoromethane	3.558	101	21885	0.133	ppbv	87
13) Ethanol	3.243	45	18293	1.522	ppbv #	61
15) Acetone	3.465	43	1977626	16.875	ppbv #	87
17) tert-Butyl alcohol	3.896	59	19070	0.157	ppbv #	71
20) Methylene Chloride	3.931	84	477419	9.577	ppbv	98
24) 1,1-Dichloroethane	4.565	63	10578	0.093	ppbv #	95
26) Hexane	5.214	57	260094	2.509	ppbv #	40
27) Carbon Disulfide	4.121	76	62684	0.514	ppbv #	84
29) Chloroform	5.282	83	142739	0.830	ppbv	96
30) Cyclohexane	6.606	84	53606	0.622	ppbv #	83
32) 1,1,1-Trichloroethane	6.008	97	554151	3.294	ppbv	99
34) 2-Butanone	4.799	43	93854	0.735	ppbv	96
35) Carbon Tetrachloride	6.500	117	88909	0.572	ppbv	95
36) Benzene	6.378	78	22162	0.107	ppbv #	91
38) Trichloroethene	7.295	130	26212m	0.333	ppbv	
44) 2,2,4-Trimethylpentane	7.336	57	122139m	0.365	ppbv	
52) Tetrachloroethene	10.629	164	78505m	1.166	ppbv	
53) Toluene	9.230	91	155848	0.690	ppbv	97
58) Ethyl Benzene	12.198	91	27266m	0.090	ppbv	
59) m/p-Xylene	12.433	91	54672m	0.202	ppbv	
60) o-Xylene	13.111	91	25566m	0.099	ppbv	

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

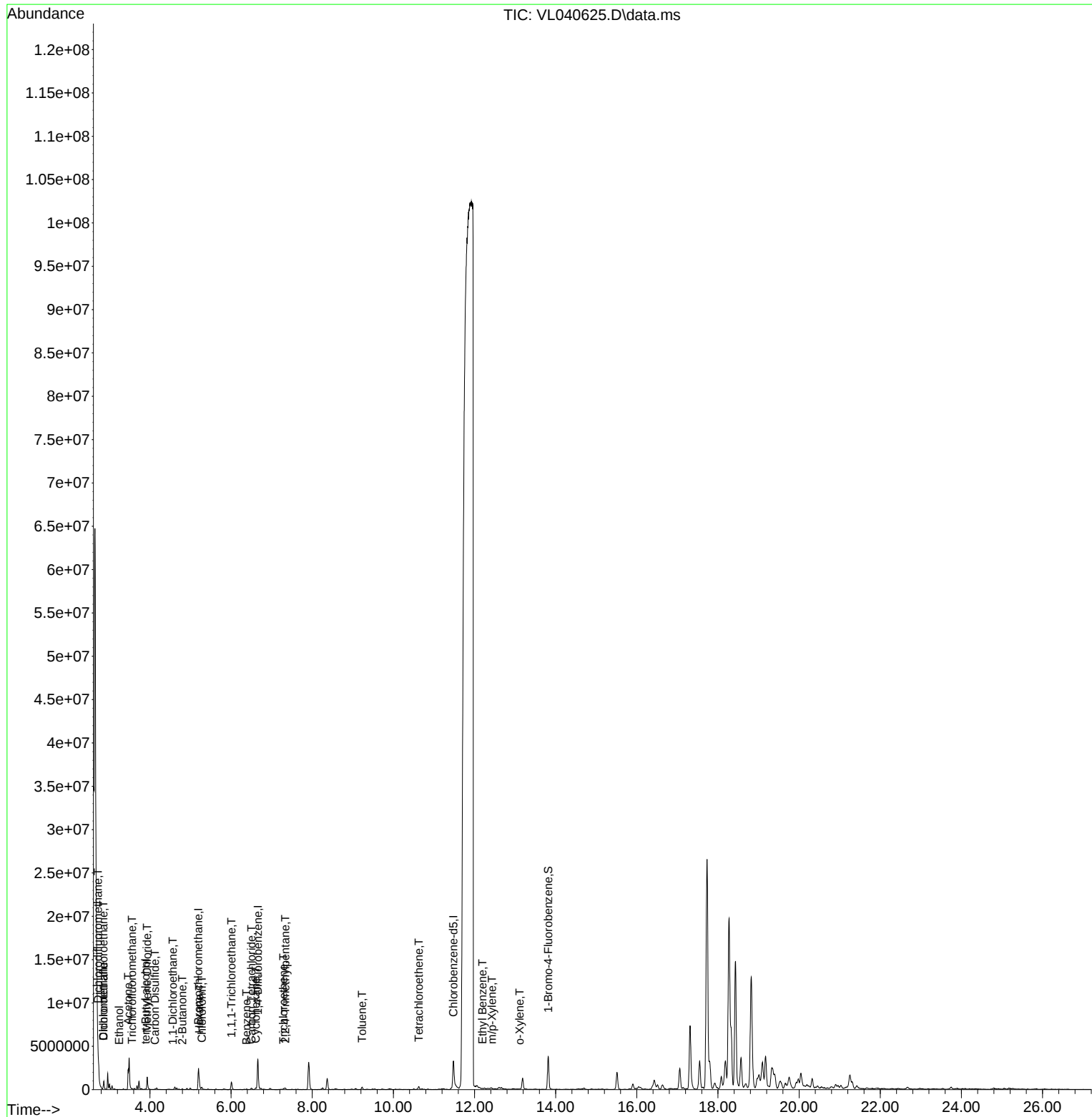
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080923\
Data File : VL040625.D
Acq On : 10 Aug 2023 8:38
Operator : SY/MD
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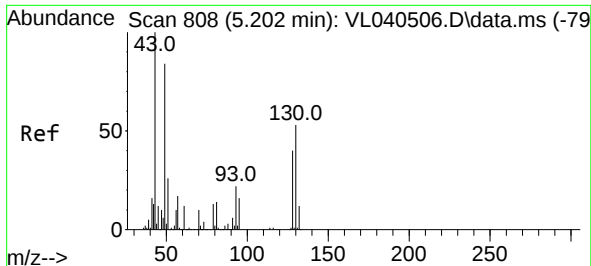
Instrument :
MSVOA_L
ClientSampleId :
SV2RE

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Supervised By :Mahesh Dadoda 08/10/2023

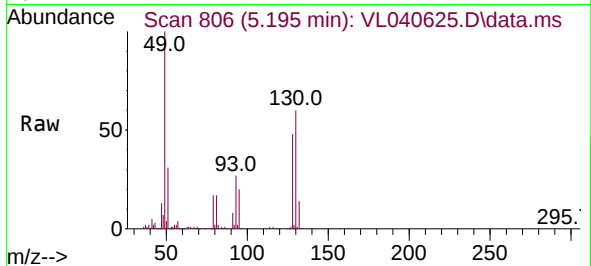
Quant Time: Aug 10 10:07:11 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Jul 10 16:32:00 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

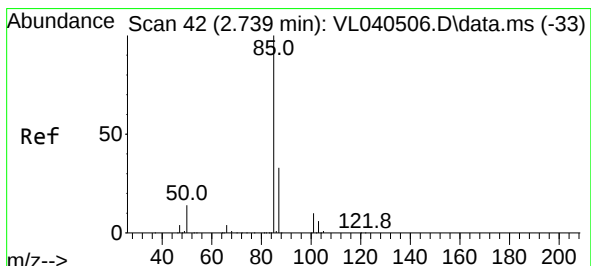
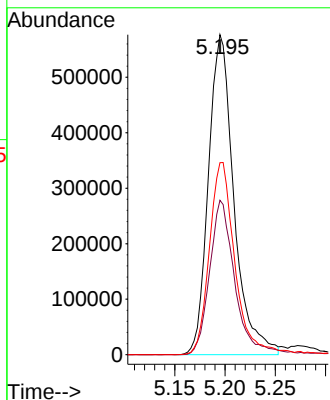
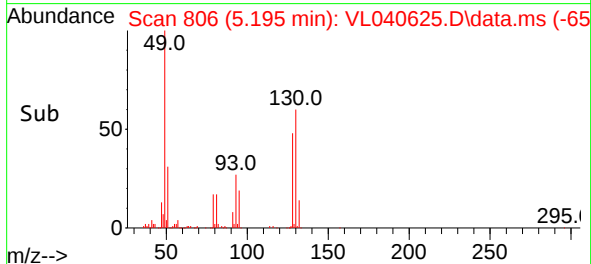
Instrument :
MSVOA_L
ClientSampleId :
SV2RE



Tgt Ion: 49 Resp: 1018104
Ion Ratio Lower Upper
49 100
128 48.7 25.1 75.4
130 61.1 31.6 94.7

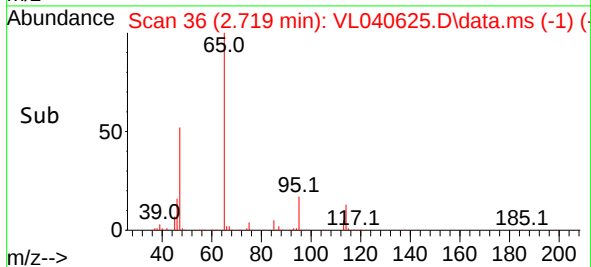
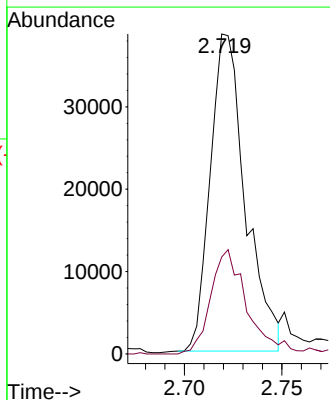
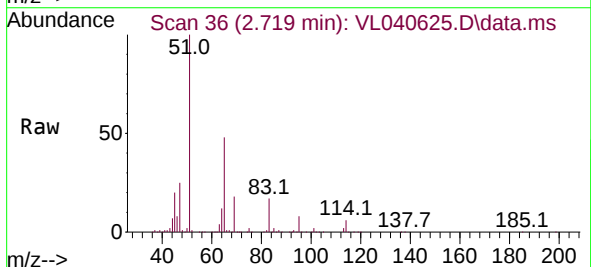
Manual Integrations
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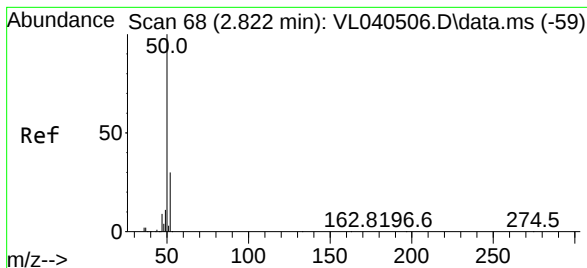
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#2
Dichlorodifluoromethane
Concen: 0.238 ppbv
RT: 2.719 min Scan# 36
Delta R.T. -0.019 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

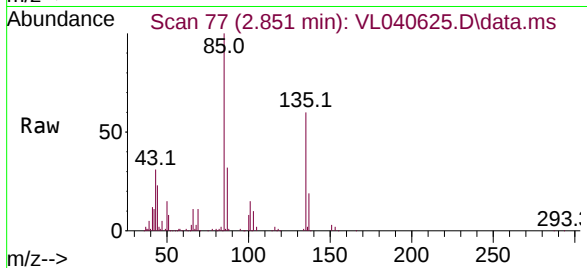
Tgt Ion: 85 Resp: 48393
Ion Ratio Lower Upper
85 100
87 30.6 26.8 40.2





#4
Chloromethane
Concen: 0.341 ppbv
RT: 2.851 min Scan# 77
Delta R.T. 0.029 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

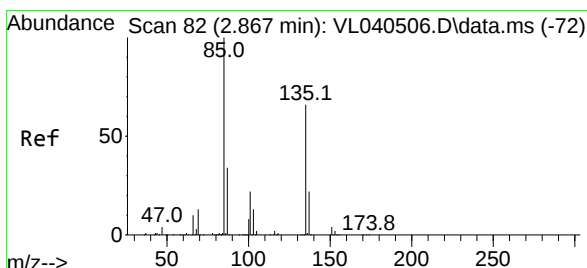
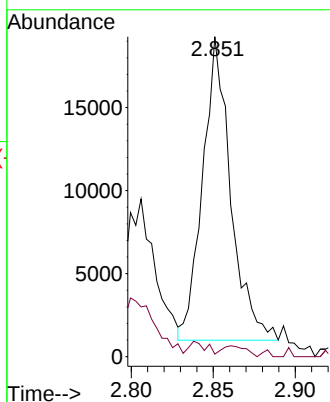
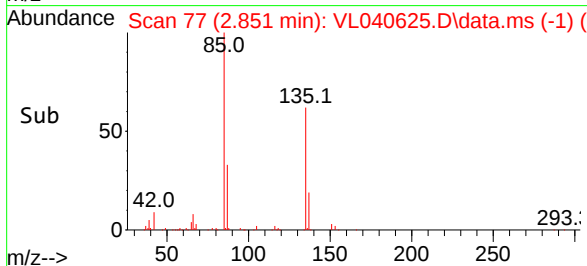
Instrument :
MSVOA_L
ClientSampleId :
SV2RE



Tgt Ion: 50 Resp: 21770
Ion Ratio Lower Upper
50 100
52 0.8 24.4 36.6

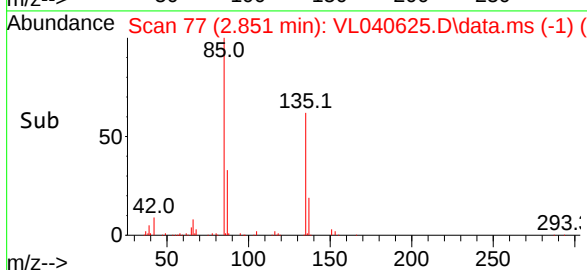
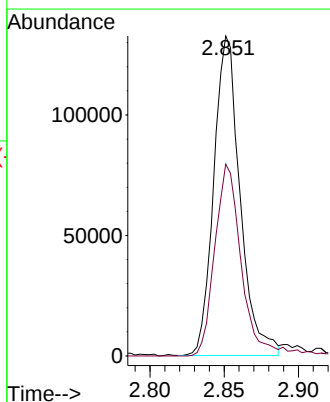
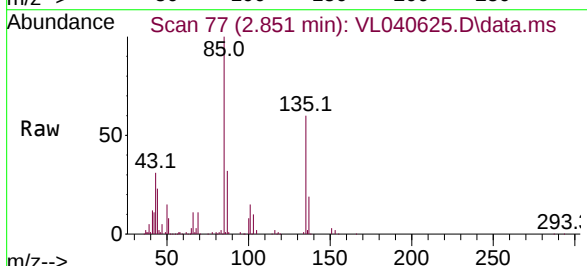
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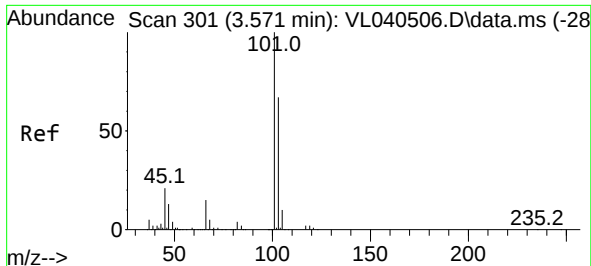
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#8
Dichlorotetrafluoroethane
Concen: 0.976 ppbv
RT: 2.851 min Scan# 77
Delta R.T. -0.016 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

Tgt Ion: 85 Resp: 163536
Ion Ratio Lower Upper
85 100
135 62.1 52.4 78.6





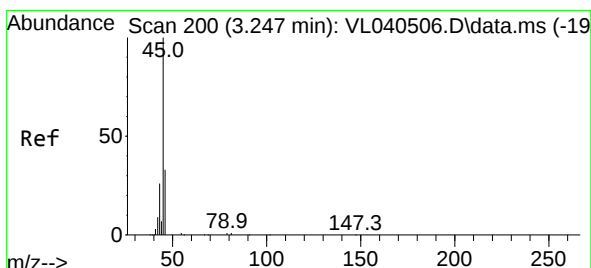
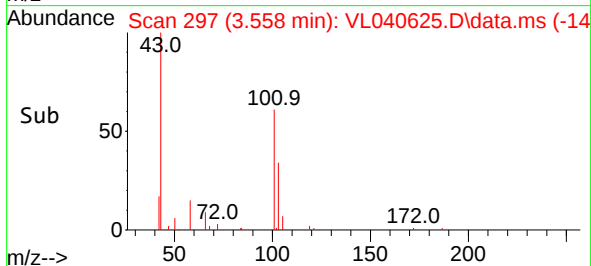
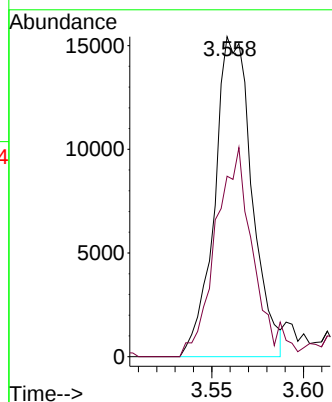
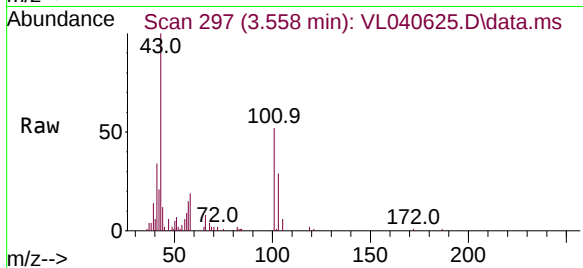
#11
 Trichlorofluoromethane
 Concen: 0.133 ppbv
 RT: 3.558 min Scan# 2188
 Delta R.T. -0.013 min
 Lab File: VL040625.D
 Acq: 10 Aug 2023 8:38

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2RE

Tgt Ion:101 Resp: 2188
 Ion Ratio Lower Upper
 101 100
 103 56.4 53.4 80.0

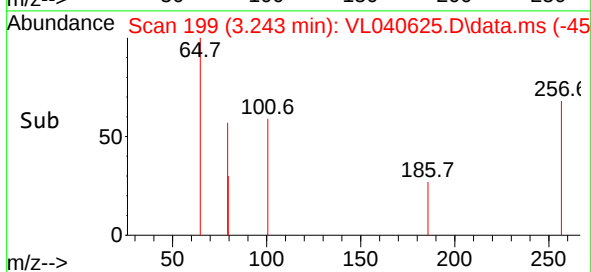
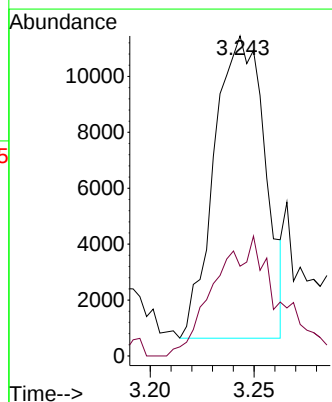
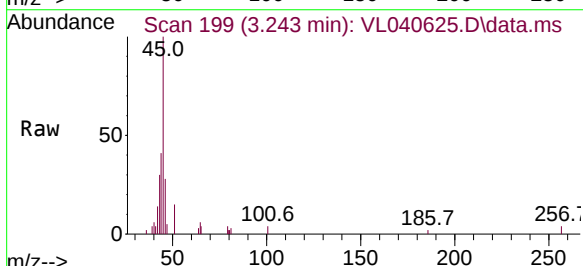
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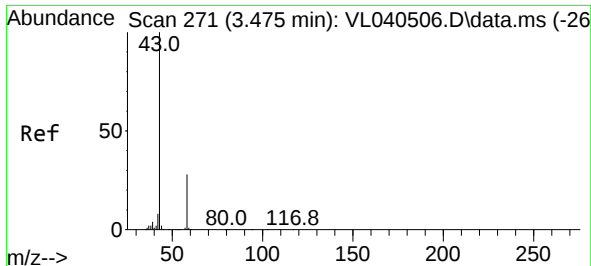
Reviewed By :Semsettin Yesilyurt 08/10/2023
 Supervised By :Mahesh Dadoda 08/10/2023



#13
 Ethanol
 Concen: 1.522 ppbv
 RT: 3.243 min Scan# 199
 Delta R.T. -0.003 min
 Lab File: VL040625.D
 Acq: 10 Aug 2023 8:38

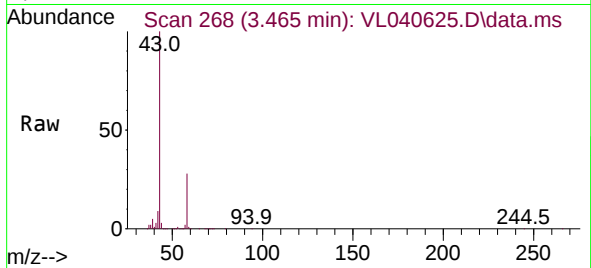
Tgt Ion: 45 Resp: 18293
 Ion Ratio Lower Upper
 45 100
 46 61.5 15.3 61.1#





#15
Acetone
Concen: 16.875 ppbv
RT: 3.465 min Scan# 20
Delta R.T. -0.010 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

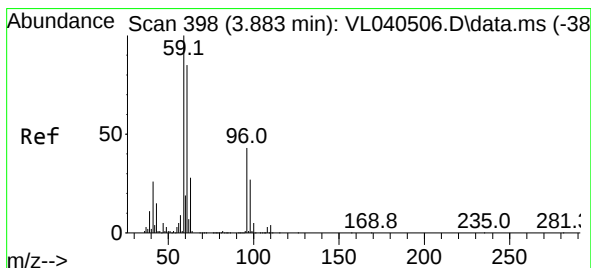
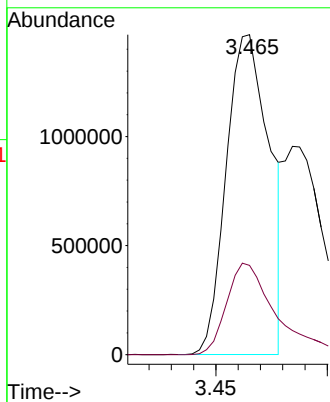
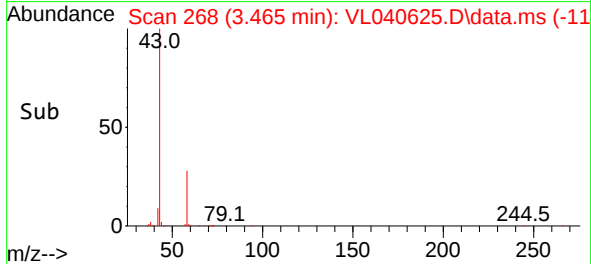
Instrument :
MSVOA_L
ClientSampleId :
SV2RE



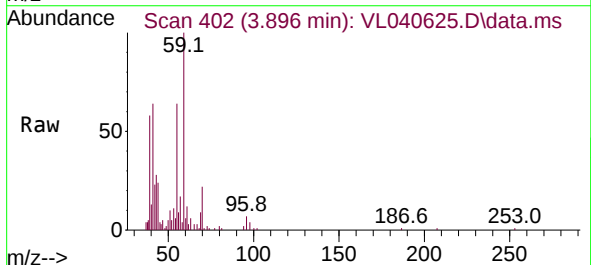
Tgt Ion: 43 Resp: 1977620
Ion Ratio Lower Upper
43 100
58 35.3 22.9 34.3

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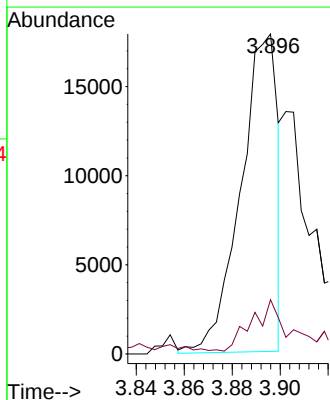
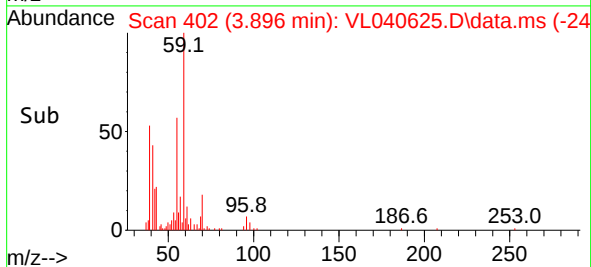
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

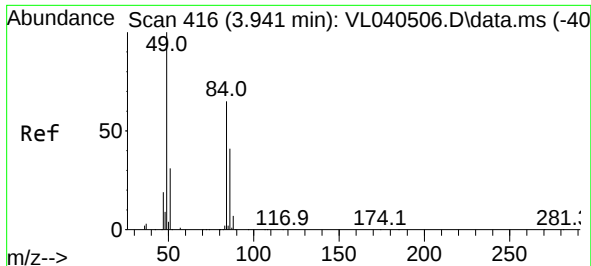


#17
tert-Butyl alcohol
Concen: 0.157 ppbv
RT: 3.896 min Scan# 402
Delta R.T. 0.013 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38



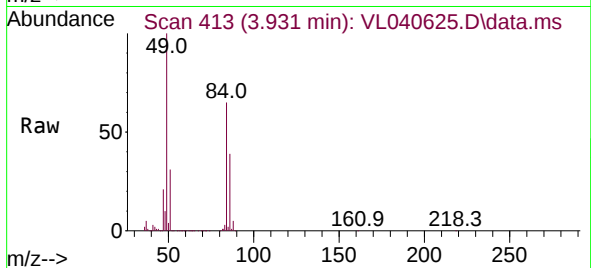
Tgt Ion: 59 Resp: 19070
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1





#20
Methylene Chloride
Concen: 9.577 ppbv
RT: 3.931 min Scan# 416
Delta R.T. -0.010 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

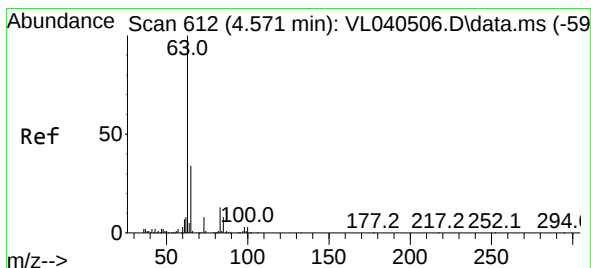
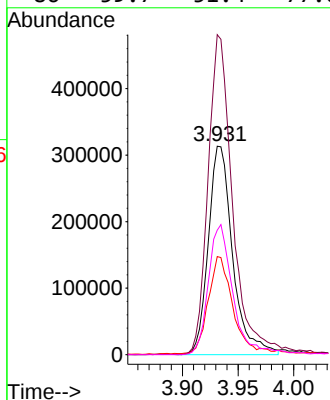
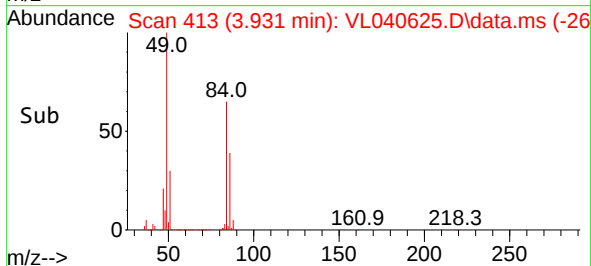
Instrument :
MSVOA_L
ClientSampleId :
SV2RE



Tgt Ion: 84 Resp: 477419
Ion Ratio Lower Upper
84 100
49 153.3 123.4 185.2
51 46.5 38.3 57.5
86 59.7 51.4 77.0

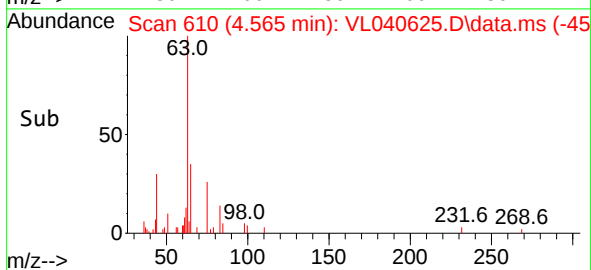
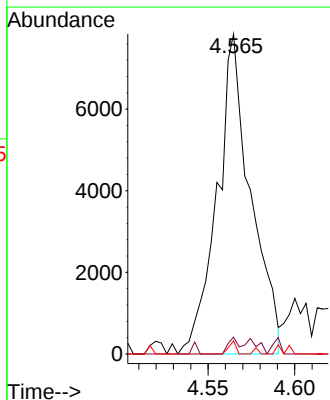
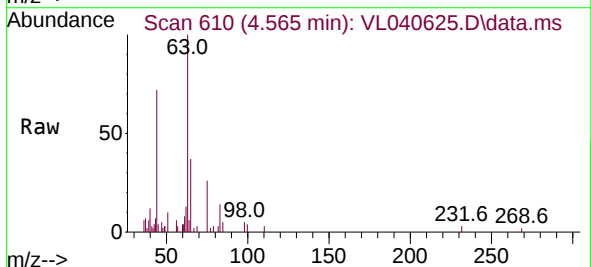
Manual Integrations
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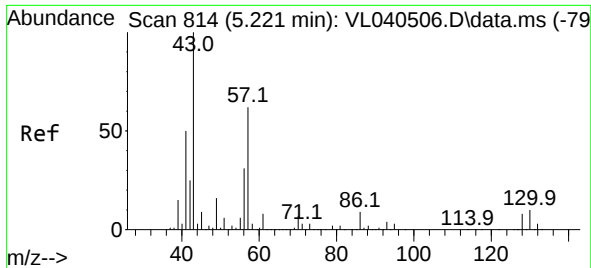
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#24
1,1-Dichloroethane
Concen: 0.093 ppbv
RT: 4.565 min Scan# 610
Delta R.T. -0.007 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

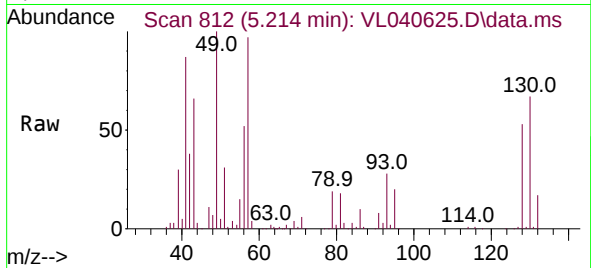
Tgt Ion: 63 Resp: 10578
Ion Ratio Lower Upper
63 100
98 5.3 1.8 5.5
100 4.1 1.4 4.0#





#26
Hexane
Concen: 2.509 ppbv
RT: 5.214 min Scan# 814
Delta R.T. -0.007 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

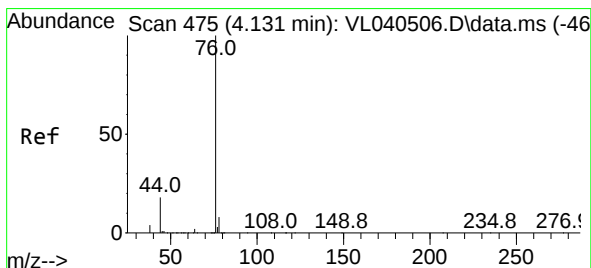
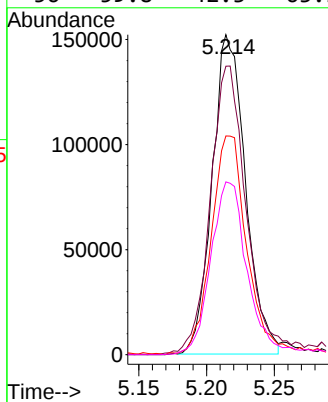
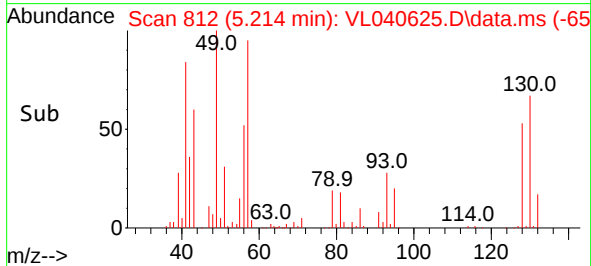
Instrument :
MSVOA_L
ClientSampleId :
SV2RE



Tgt Ion: 57 Resp: 260094
Ion Ratio Lower Upper
57 100
41 101.8 69.5 104.3
43 76.1 177.1 265.7
56 59.8 42.3 63.5

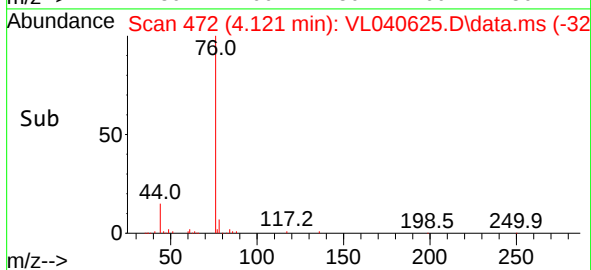
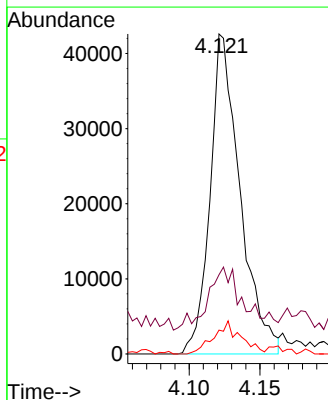
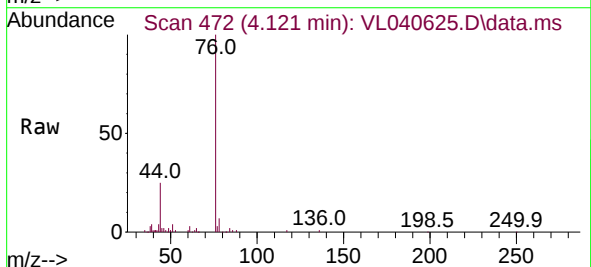
Manual Integrations
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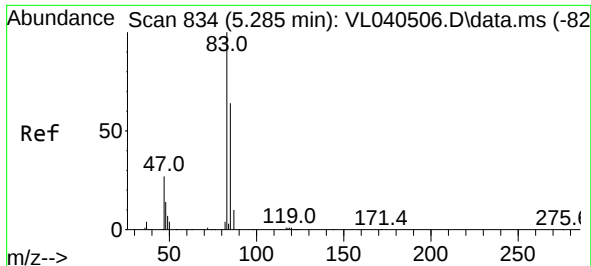
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#27
Carbon Disulfide
Concen: 0.514 ppbv
RT: 4.121 min Scan# 472
Delta R.T. -0.010 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

Tgt Ion: 76 Resp: 62684
Ion Ratio Lower Upper
76 100
44 28.6 15.1 22.7
78 10.6 7.5 11.3





#29

Chloroform

Concen: 0.830 ppbv

RT: 5.282 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL040625.D

Acq: 10 Aug 2023 8:38

Instrument :

MSVOA_L

ClientSampleId :

SV2RE

Tgt Ion: 83 Resp: 142739

Ion Ratio Lower Upper

83 100

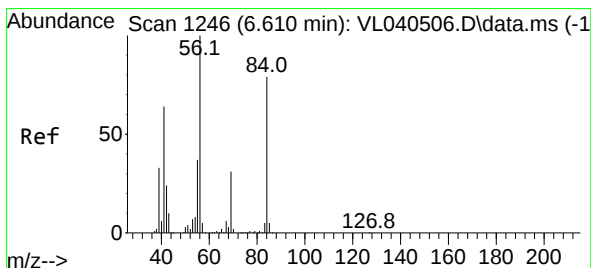
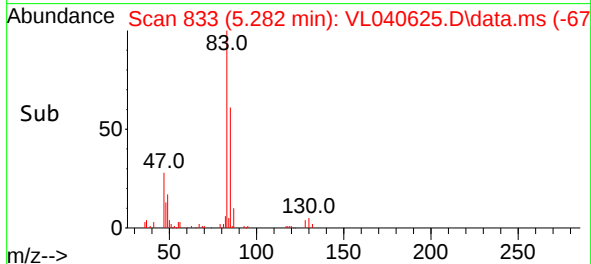
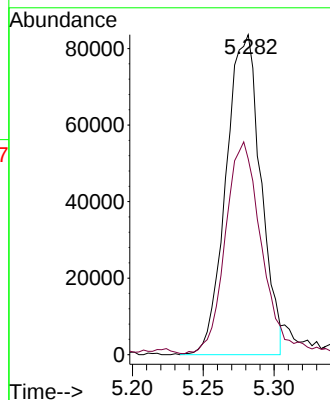
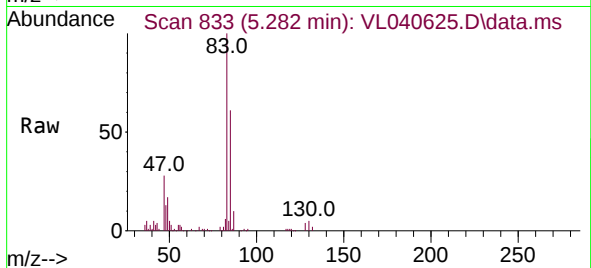
85 60.8 51.1 76.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/10/2023

Supervised By :Mahesh Dadoda 08/10/2023



#30

Cyclohexane

Concen: 0.622 ppbv

RT: 6.606 min Scan# 1245

Delta R.T. -0.003 min

Lab File: VL040625.D

Acq: 10 Aug 2023 8:38

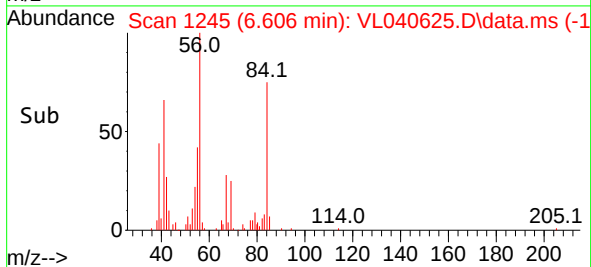
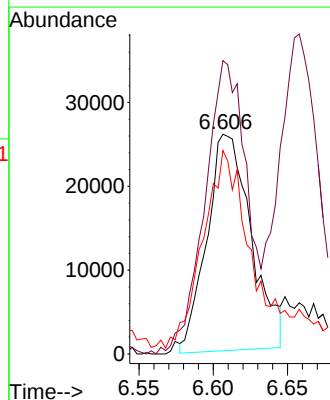
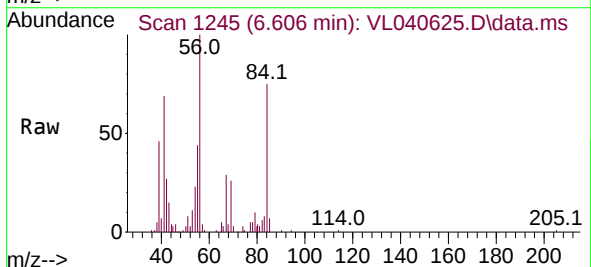
Tgt Ion: 84 Resp: 53606

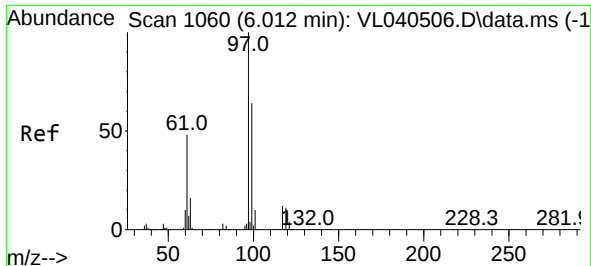
Ion Ratio Lower Upper

84 100

56 128.4 108.7 163.1

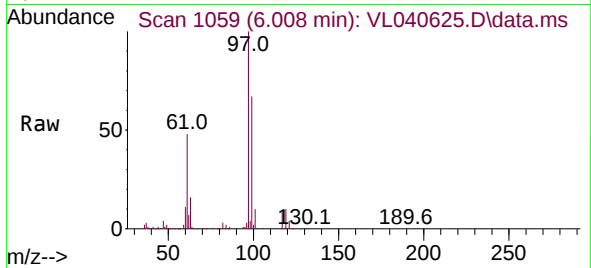
41 112.1 64.5 96.7#





#32
1,1,1-Trichloroethane
Concen: 3.294 ppbv
RT: 6.008 min Scan# 1059
Delta R.T. -0.003 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

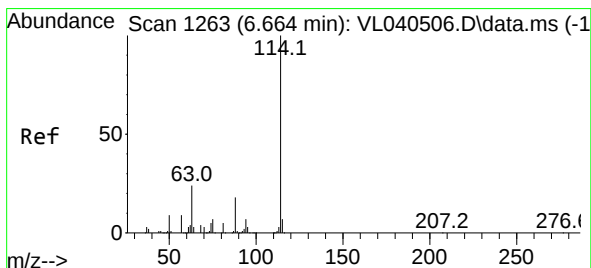
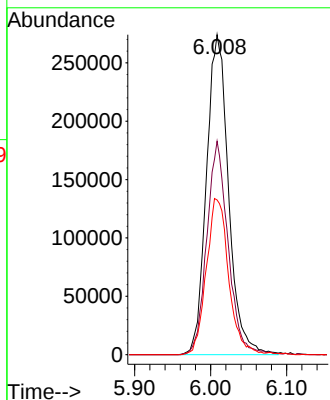
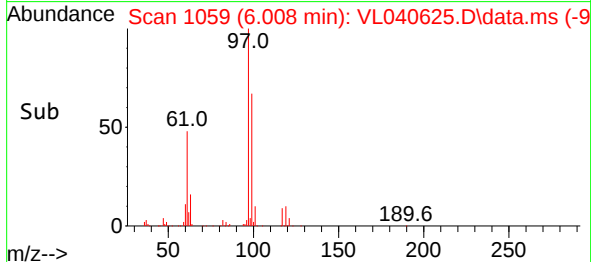
Instrument :
MSVOA_L
ClientSampleId :
SV2RE



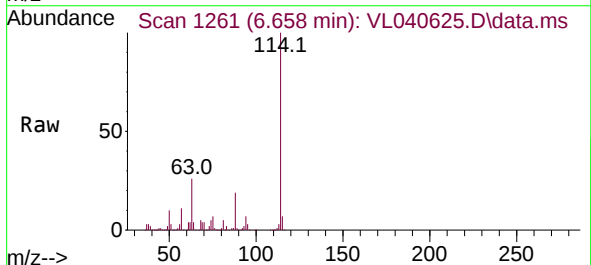
Tgt Ion: 97 Resp: 55415
Ion Ratio Lower Upper
97 100
99 64.4 52.0 78.0
61 49.7 38.9 58.3

Manual Integrations
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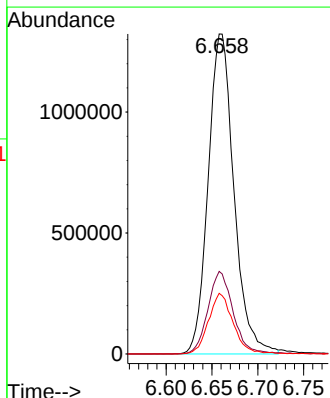
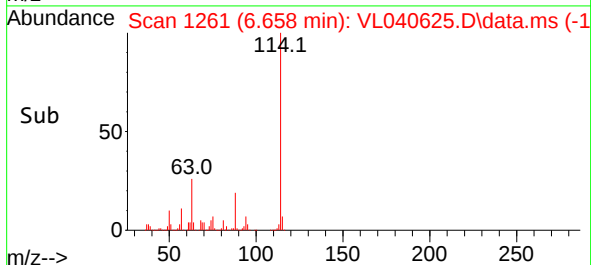
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

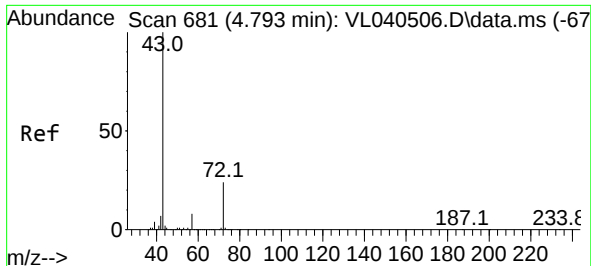


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.007 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38



Tgt Ion:114 Resp: 2583531
Ion Ratio Lower Upper
114 100
63 25.5 19.6 29.4
88 18.3 14.2 21.2





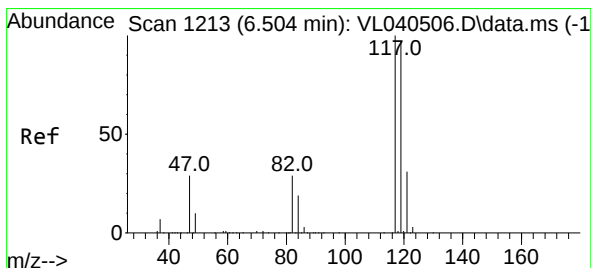
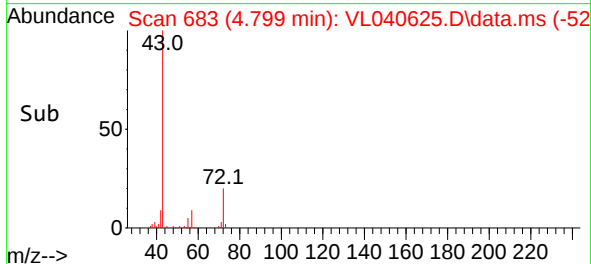
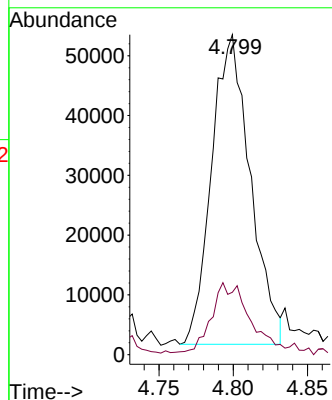
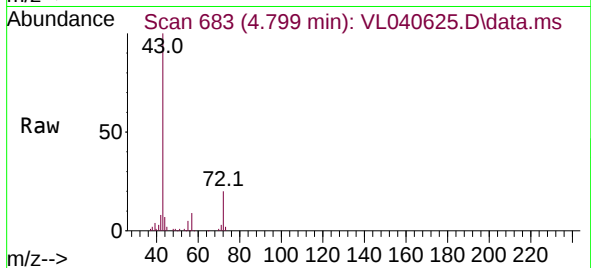
#34
2-Butanone
Concen: 0.735 ppbv
RT: 4.799 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

Instrument :
MSVOA_L
ClientSampleId :
SV2RE

Tgt Ion: 43 Resp: 93854
Ion Ratio Lower Upper
43 100
72 25.8 19.1 28.7

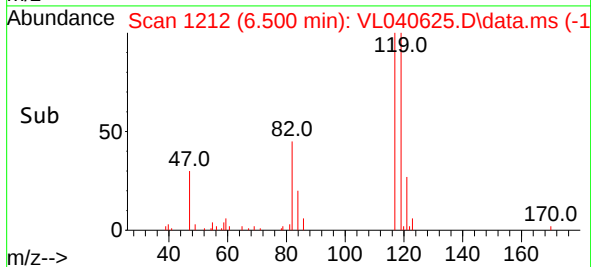
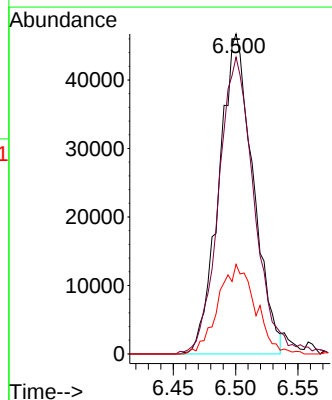
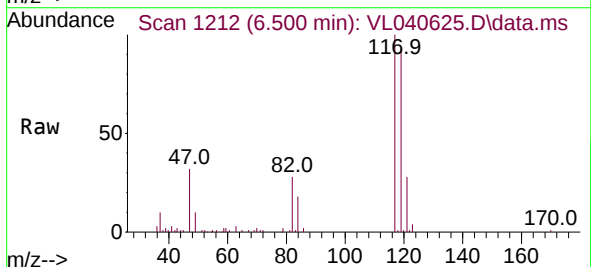
Manual Integrations
APPROVED

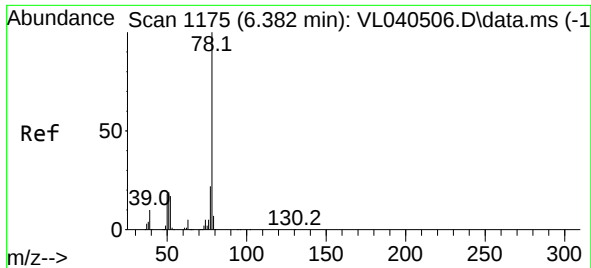
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#35
Carbon Tetrachloride
Concen: 0.572 ppbv
RT: 6.500 min Scan# 1212
Delta R.T. -0.003 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

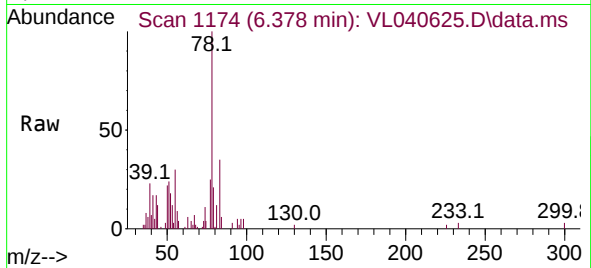
Tgt Ion:117 Resp: 88909
Ion Ratio Lower Upper
117 100
119 92.0 77.8 116.6
121 28.0 24.8 37.2





#36
Benzene
Concen: 0.107 ppbv
RT: 6.378 min Scan# 1175
Delta R.T. -0.003 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

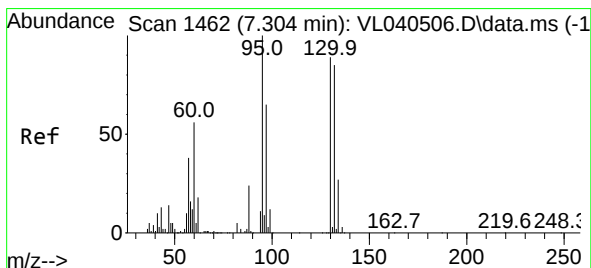
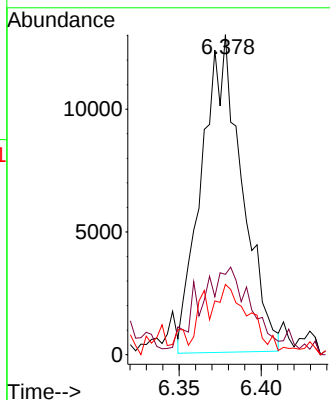
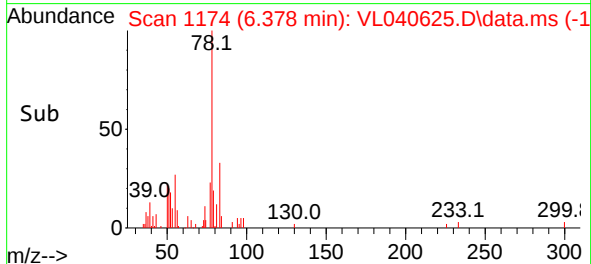
Instrument :
MSVOA_L
ClientSampleId :
SV2RE



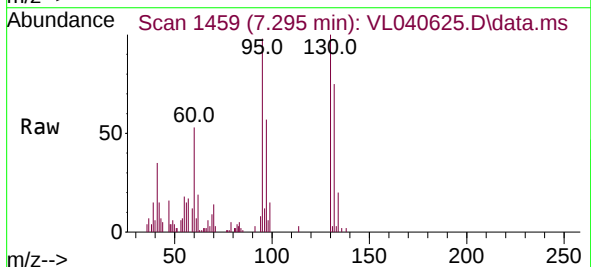
Tgt Ion: 78 Resp: 22162
Ion Ratio Lower Upper
78 100
77 17.3 17.4 26.0
50 21.7 14.4 21.6

Manual Integrations
APPROVED

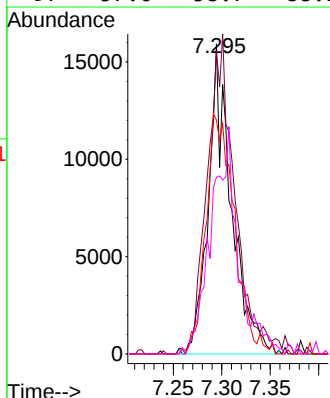
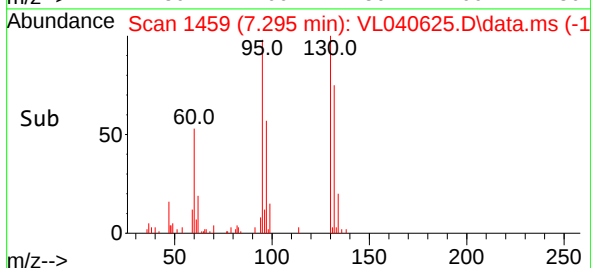
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

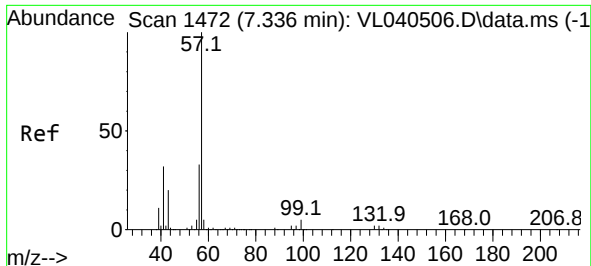


#38
Trichloroethene
Concen: 0.333 ppbv m
RT: 7.295 min Scan# 1459
Delta R.T. -0.010 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38



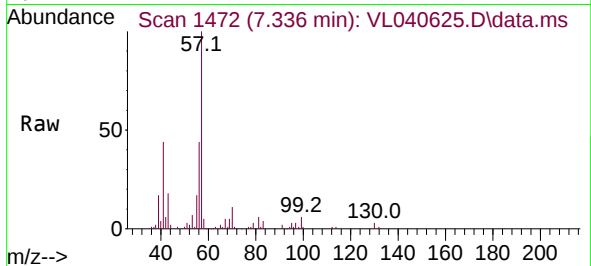
Tgt Ion:130 Resp: 26212
Ion Ratio Lower Upper
130 100
95 97.6 90.2 135.2
132 75.5 76.3 114.5#
97 57.0 58.7 88.1#





#44
2,2,4-Trimethylpentane
Concen: 0.365 ppbv m
RT: 7.336 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

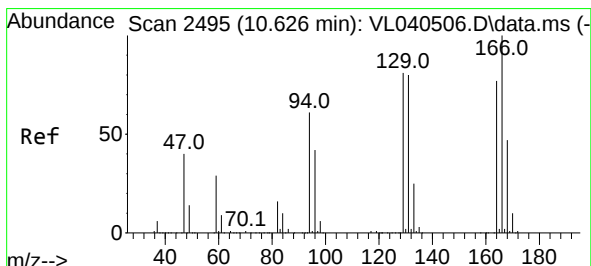
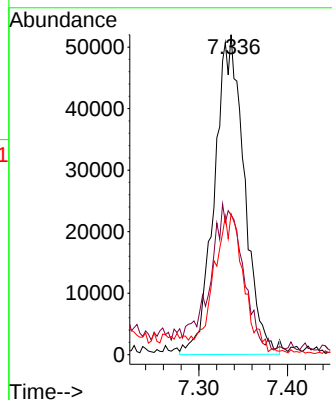
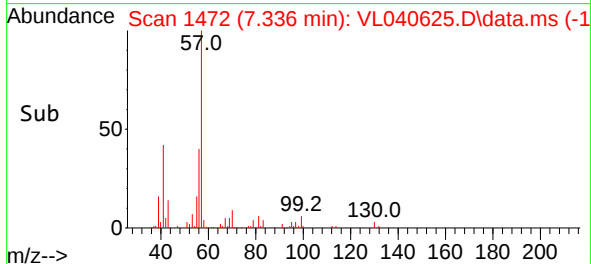
Instrument :
MSVOA_L
ClientSampleId :
SV2RE



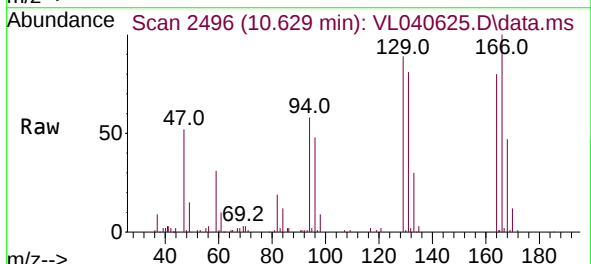
Tgt Ion: 57 Resp: 122139
Ion Ratio Lower Upper
57 100
41 57.8 25.5 38.3
56 0.0 25.1 37.7

Manual Integrations
APPROVED

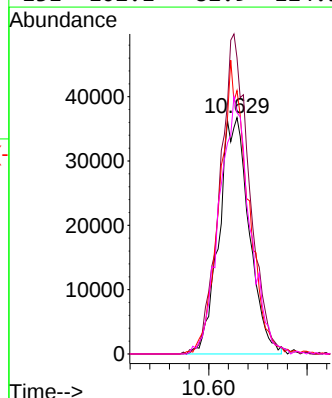
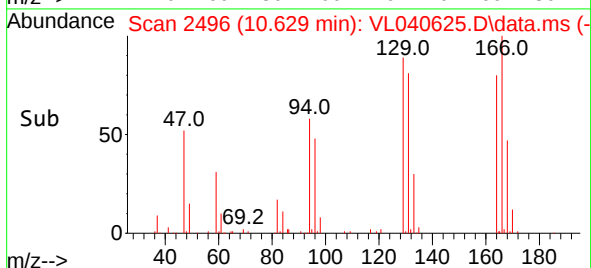
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

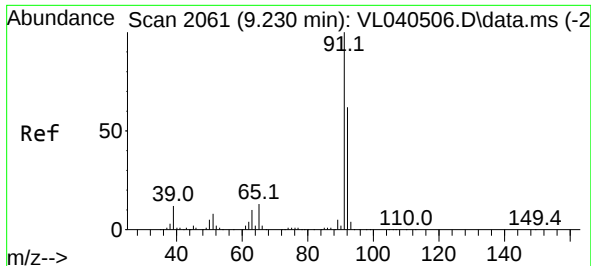


#52
Tetrachloroethene
Concen: 1.166 ppbv m
RT: 10.629 min Scan# 2496
Delta R.T. 0.003 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38



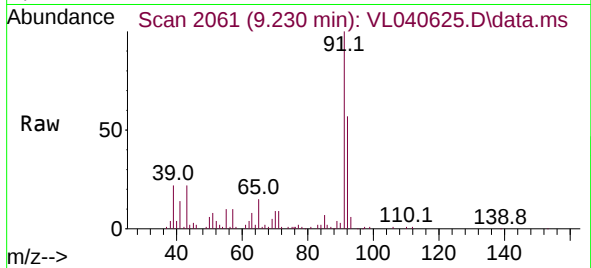
Tgt Ion:164 Resp: 78505
Ion Ratio Lower Upper
164 100
166 125.3 103.9 155.9
129 111.4 84.6 126.8
131 102.1 82.9 124.3





#53
Toluene
Concen: 0.690 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. -0.000 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

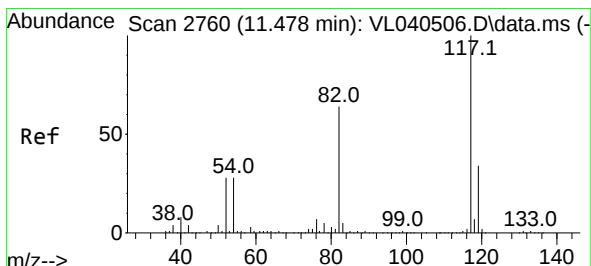
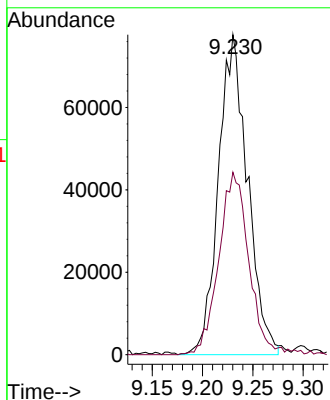
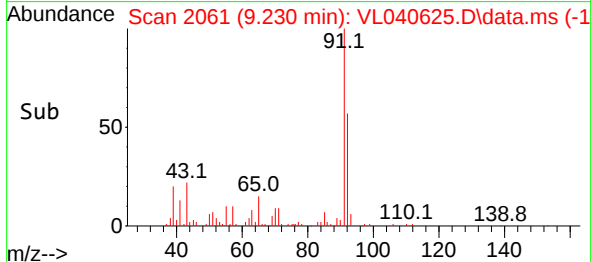
Instrument :
MSVOA_L
ClientSampleId :
SV2RE



Tgt Ion: 91 Resp: 155848
Ion Ratio Lower Upper
91 100
92 59.3 49.1 73.7

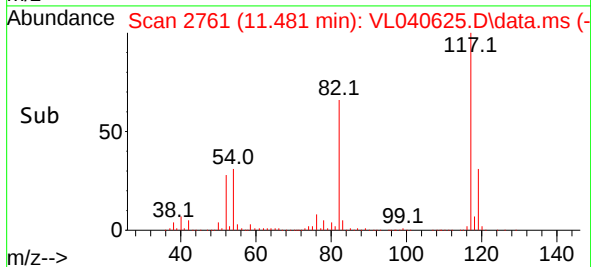
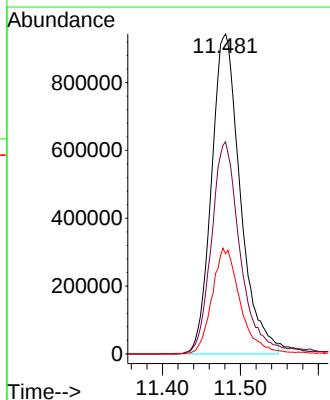
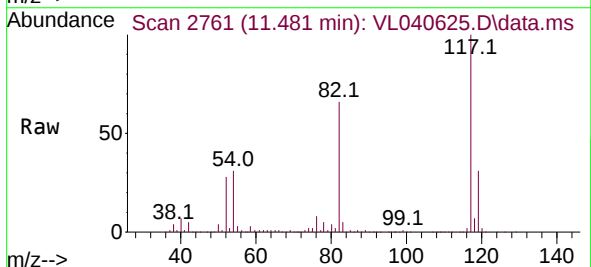
Manual Integrations
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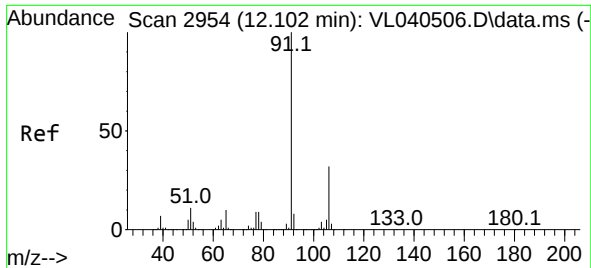
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. 0.003 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

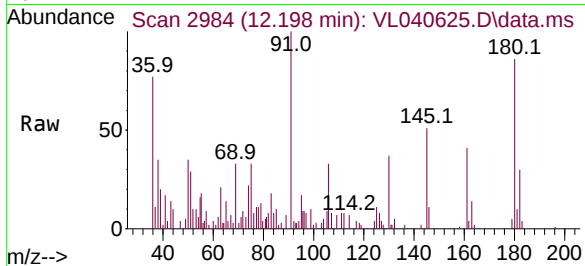
Tgt Ion:117 Resp: 2419737
Ion Ratio Lower Upper
117 100
82 68.2 50.2 75.4
119 32.9 26.9 40.3





#58
Ethyl Benzene
Concen: 0.090 ppbv m
RT: 12.198 min Scan# 2954
Delta R.T. 0.096 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

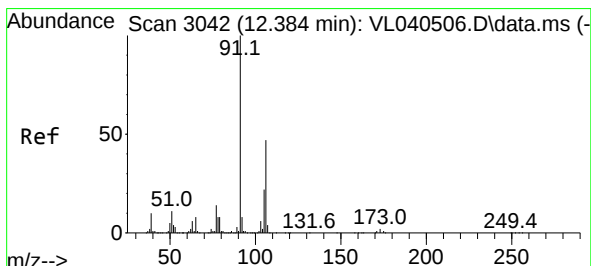
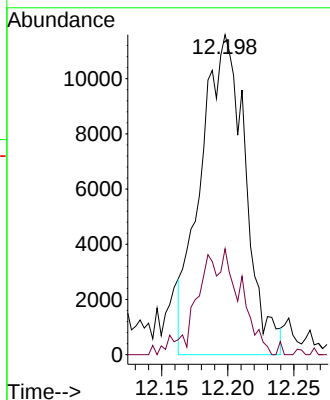
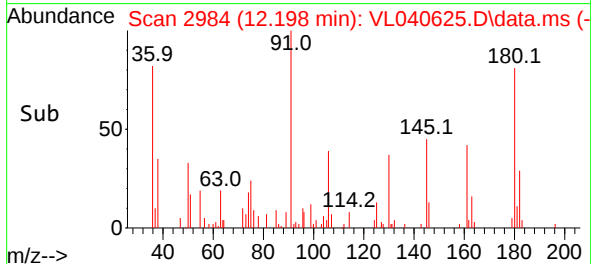
Instrument :
MSVOA_L
ClientSampleId :
SV2RE



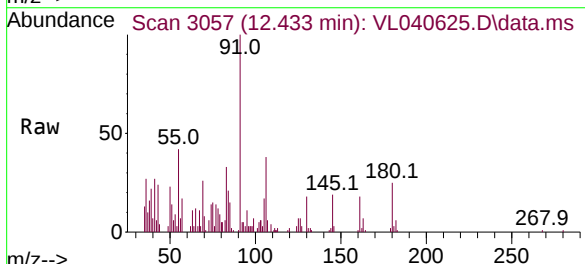
Tgt Ion: 91 Resp: 2726
Ion Ratio Lower Upper
91 100
106 33.1 25.4 38.0

Manual Integrations
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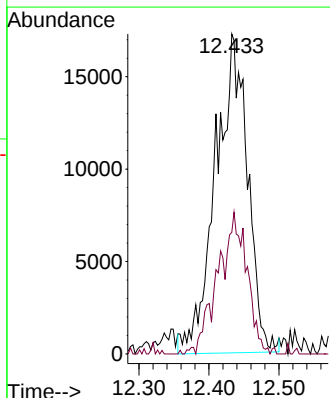
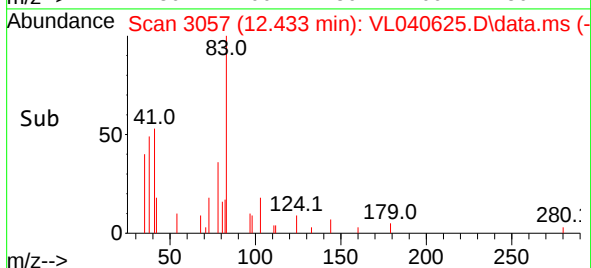
Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

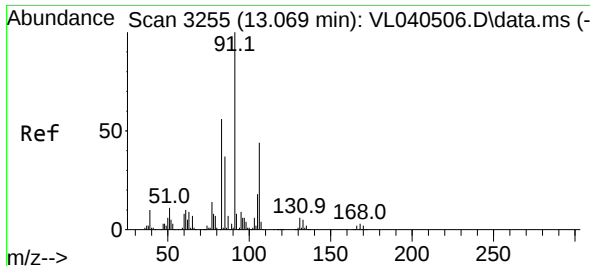


#59
m/p-Xylene
Concen: 0.202 ppbv m
RT: 12.433 min Scan# 3057
Delta R.T. 0.048 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38



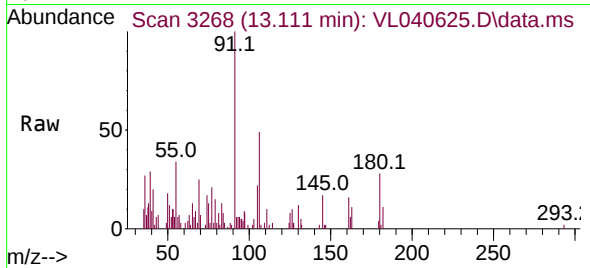
Tgt Ion: 91 Resp: 54672
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#





#60
o-Xylene
Concen: 0.099 ppbv m
RT: 13.111 min Scan# 31
Delta R.T. 0.042 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

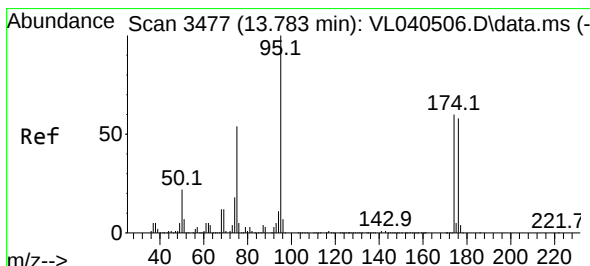
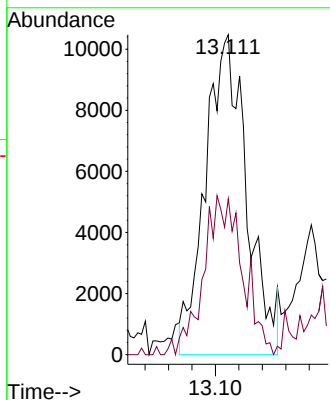
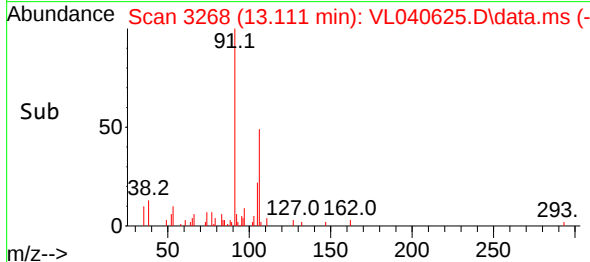
Instrument :
MSVOA_L
ClientSampleId :
SV2RE



Tgt Ion: 91 Resp: 2556
Ion Ratio Lower Upper
91 100
106 0.0 22.7 68.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 10.065 ppbv
RT: 13.818 min Scan# 3488
Delta R.T. 0.035 min
Lab File: VL040625.D
Acq: 10 Aug 2023 8:38

Tgt Ion: 95 Resp: 1927432
Ion Ratio Lower Upper
95 100
174 61.1 50.6 75.8
175 4.3 3.7 5.5

