

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031725\
 Data File : VL042154.D
 Acq On : 17 Mar 2025 12:51
 Operator : SY/MD
 Sample : Q1586-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 565-SG-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/18/2025
 Supervised By :Mahesh Dadoda 03/18/2025

Quant Time: Mar 18 01:24:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	191555	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	526330	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	471205	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	349708	9.647	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	3076	0.154	ppbv	97
9) Propene	1.483	41	25480m	2.247	ppbv	
10) Heptane	5.027	43	5052114	143.063	ppbv	86
13) Ethanol	1.725	45	21840	30.334	ppbv #	33
15) Acetone	1.835	43	508957m	30.087	ppbv	
26) Hexane	2.855	57	6634605	242.367	ppbv #	31
30) Cyclohexane	3.881	84	4024741	181.143	ppbv #	86
34) 2-Butanone	2.567	43	343349	8.374	ppbv	100
36) Benzene	3.677	78	3929144	71.311	ppbv #	75
38) Trichloroethene	4.580	130	2186m	0.097	ppbv	
52) Tetrachloroethene	8.247	164	84220	4.465	ppbv	93
53) Toluene	6.959	91	305311	4.958	ppbv	98
58) Ethyl Benzene	9.374	91	232110	2.675	ppbv	98
59) m/p-Xylene	9.548	91	672715	9.741	ppbv #	100
60) o-Xylene	9.982	91	201180	2.898	ppbv	97
62) Isopropylbenzene	10.555	105	22053	0.212	ppbv	93
64) n-propylbenzene	11.002	120	5898	0.216	ppbv	83
72) 4-Ethyltoluene	11.138	105	24902	0.294	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.215	105	38025	0.517	ppbv	93
74) 1,2,4-Trimethylbenzene	11.549	105	74719	0.902	ppbv #	60

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

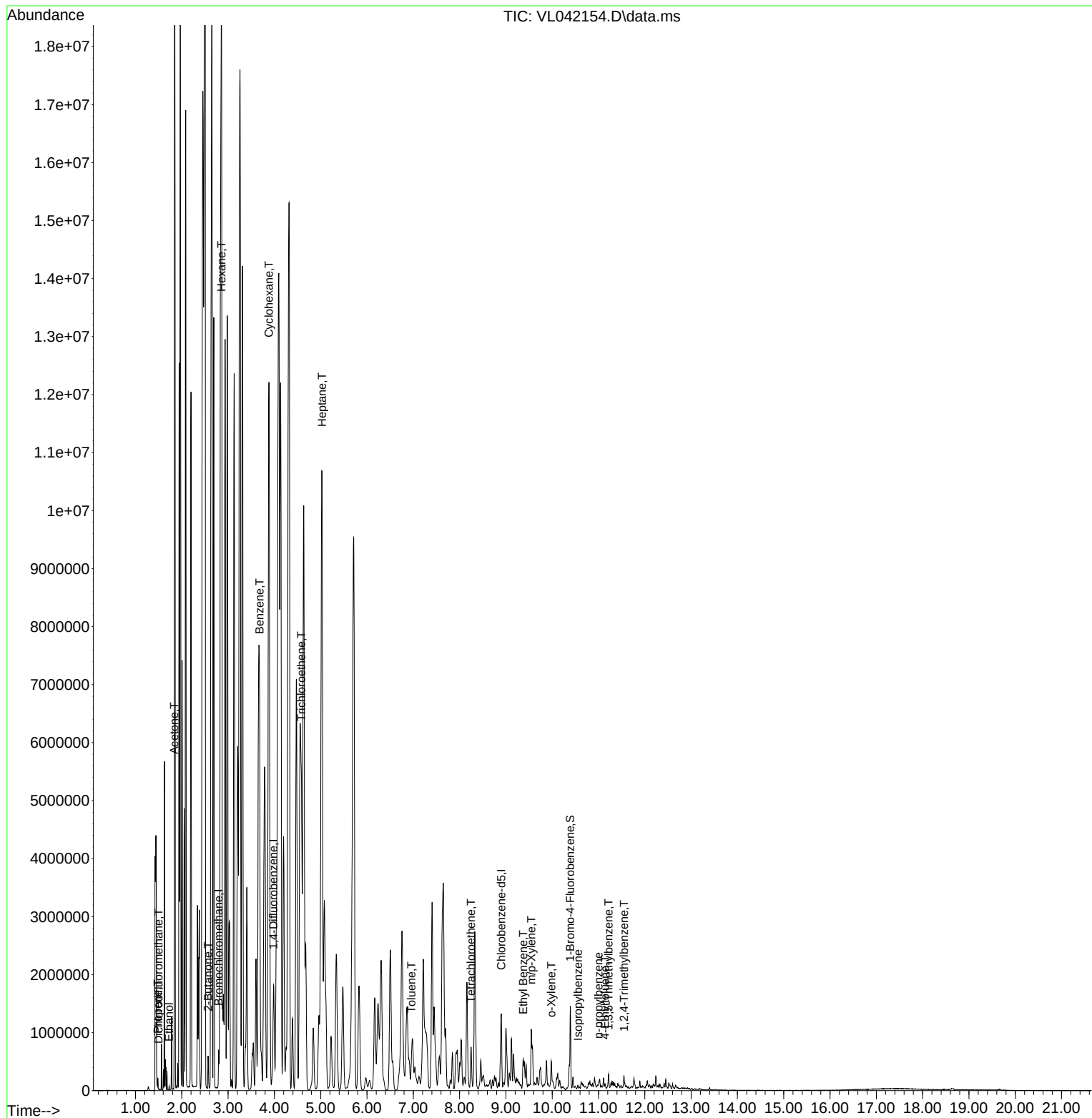
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031725\
Data File : VL042154.D
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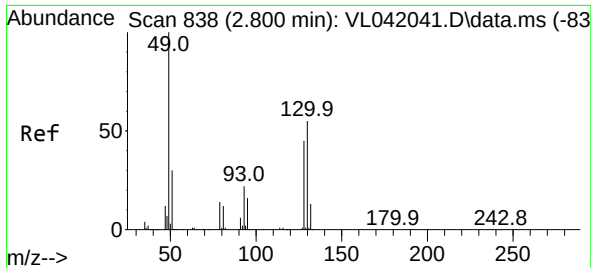
Instrument :
MSVOA_L
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565-SG-1

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
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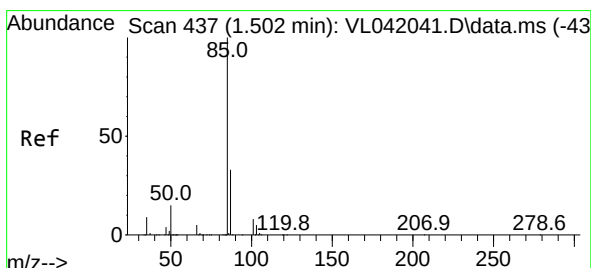
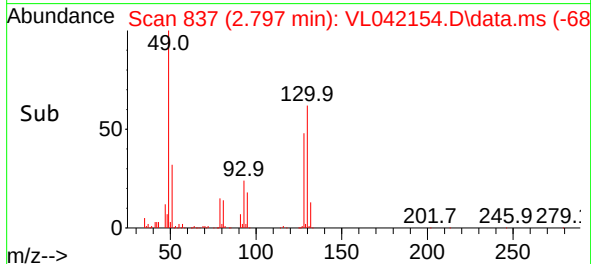
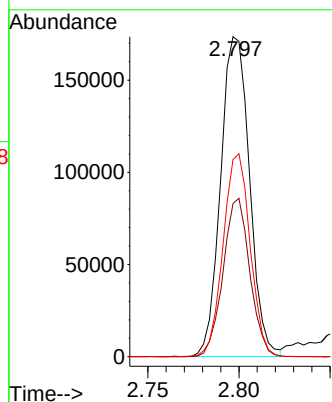
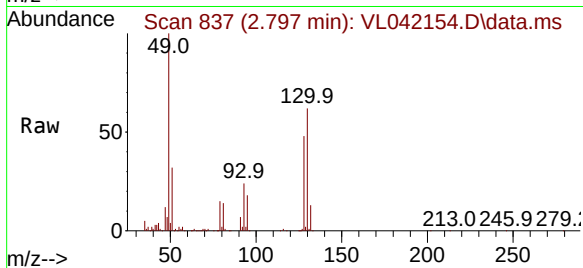
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51

Instrument :
MSVOA_L
ClientSampleId :
565-SG-1

Tgt Ion: 49 Resp: 19155
Ion Ratio Lower Upper
49 100
128 45.7 21.6 64.8
130 59.4 27.8 83.4

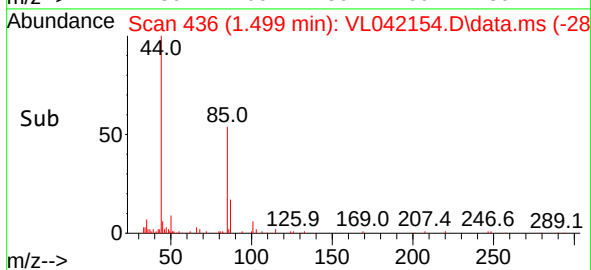
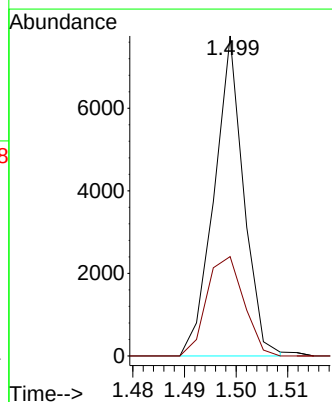
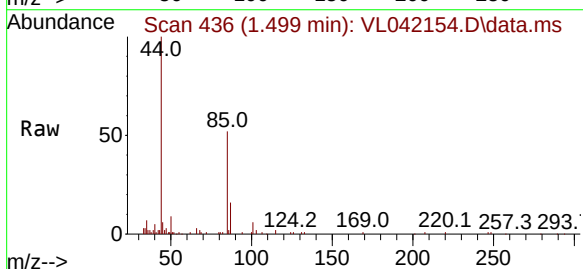
Manual Integrations
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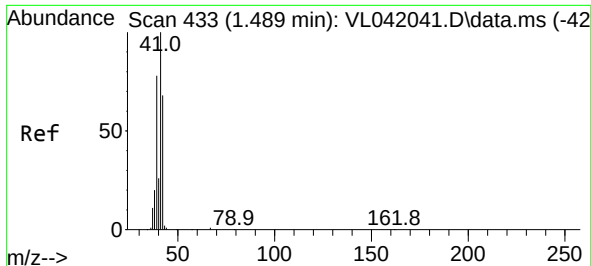
Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025



#2
Dichlorodifluoromethane
Concen: 0.154 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51

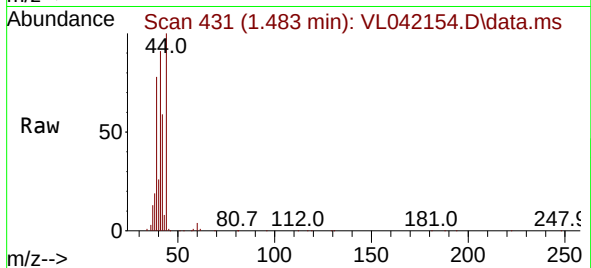
Tgt Ion: 85 Resp: 3076
Ion Ratio Lower Upper
85 100
87 31.0 26.4 39.6





#9
 Propene
 Concen: 2.247 ppbv m
 RT: 1.483 min Scan# 41
 Delta R.T. -0.007 min
 Lab File: VL042154.D
 Acq: 17 Mar 2025 12:51

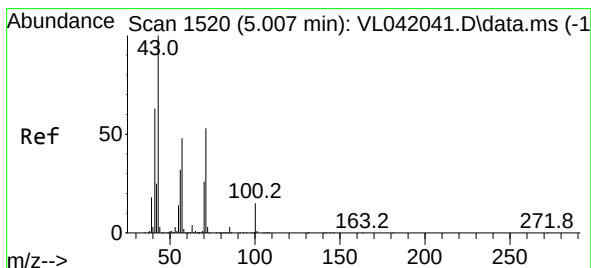
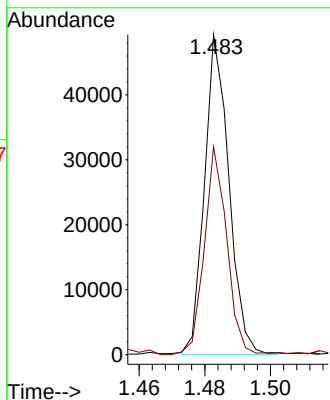
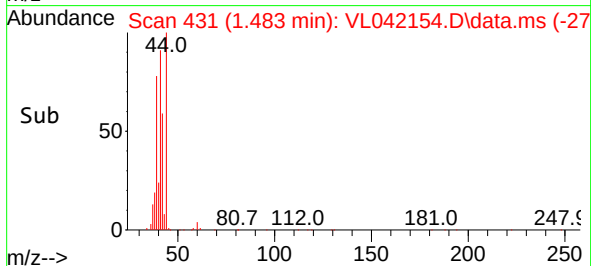
Instrument :
 MSVOA_L
 ClientSampleId :
 565-SG-1



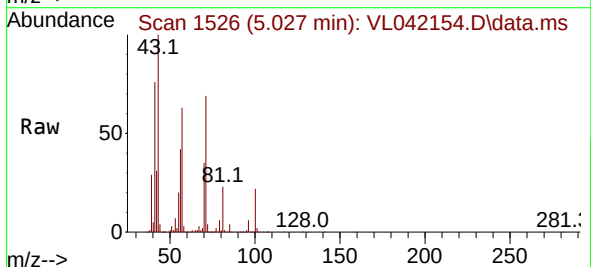
Tgt Ion: 41 Resp: 25480
 Ion Ratio Lower Upper
 41 100
 42 0.0 55.8 83.6

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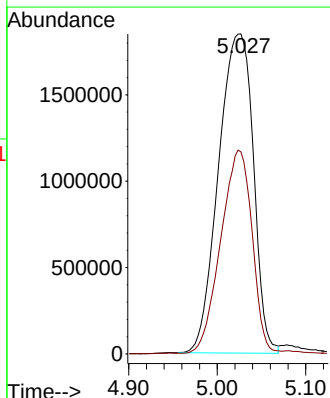
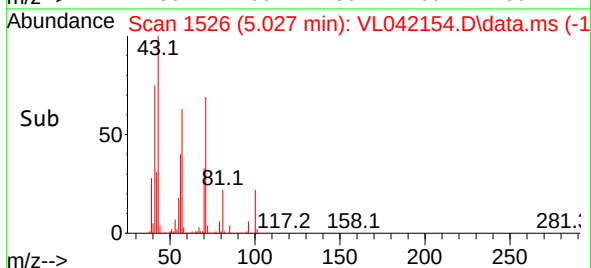
Reviewed By :Semsettin Yesilyurt 03/18/2025
 Supervised By :Mahesh Dadoda 03/18/2025

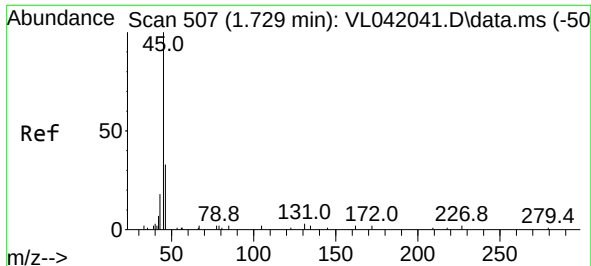


#10
 Heptane
 Concen: 143.063 ppbv
 RT: 5.027 min Scan# 1526
 Delta R.T. 0.019 min
 Lab File: VL042154.D
 Acq: 17 Mar 2025 12:51



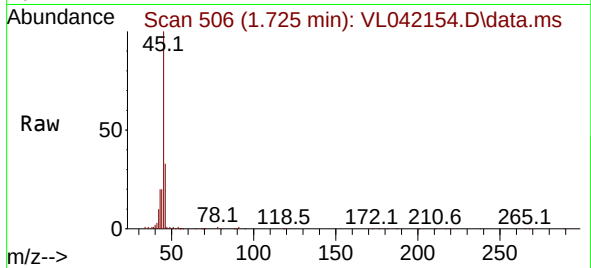
Tgt Ion: 43 Resp: 5052114
 Ion Ratio Lower Upper
 43 100
 57 58.4 39.4 59.0





#13
Ethanol
Concen: 30.334 ppbv
RT: 1.725 min Scan# 507
Delta R.T. -0.003 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51

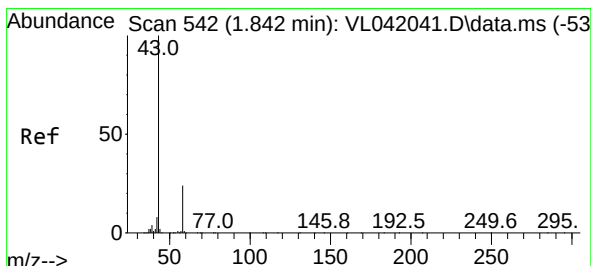
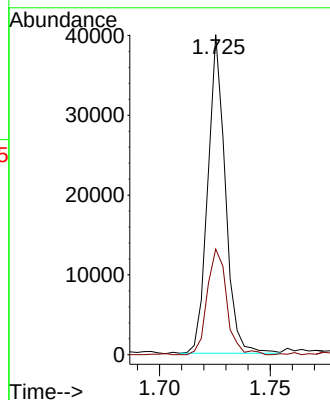
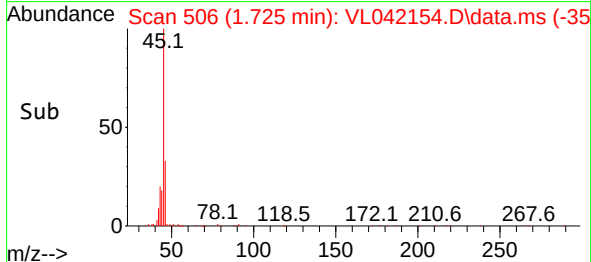
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1



Tgt Ion: 45 Resp: 21840
Ion Ratio Lower Upper
45 100
46 0.0 17.1 68.3

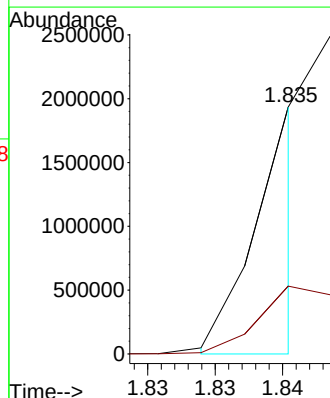
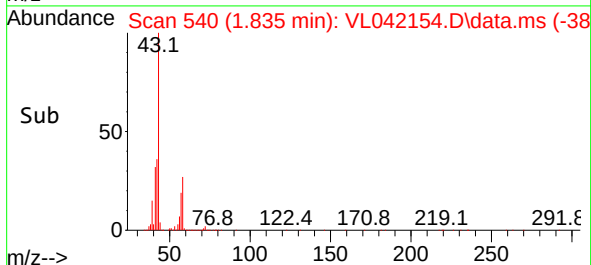
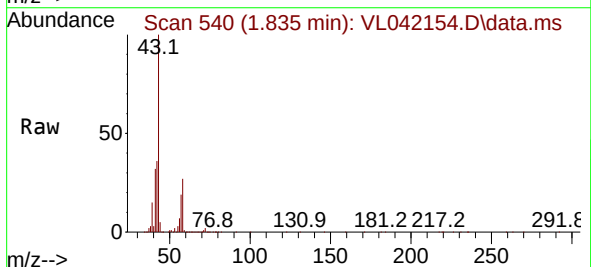
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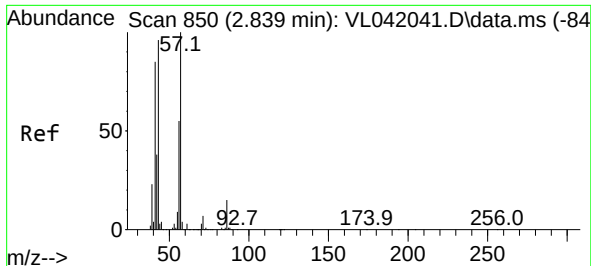
Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025



#15
Acetone
Concen: 30.087 ppbv m
RT: 1.835 min Scan# 540
Delta R.T. -0.007 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51

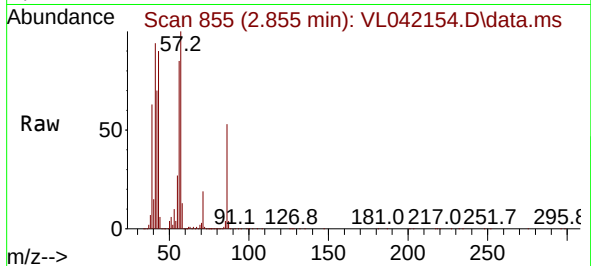
Tgt Ion: 43 Resp: 508957
Ion Ratio Lower Upper
43 100
58 0.0 20.7 31.1





#26
Hexane
Concen: 242.367 ppbv
RT: 2.855 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51

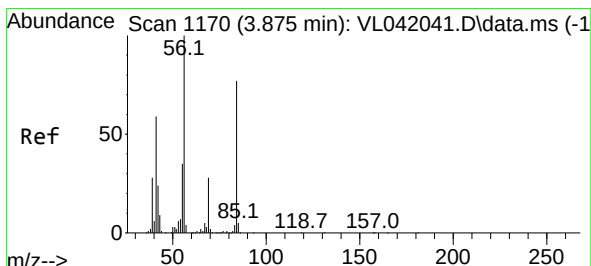
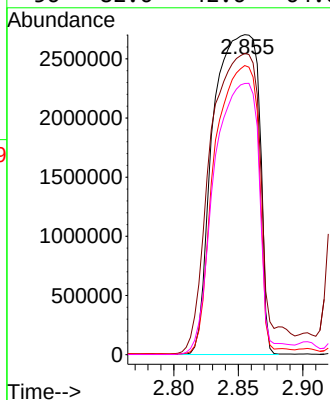
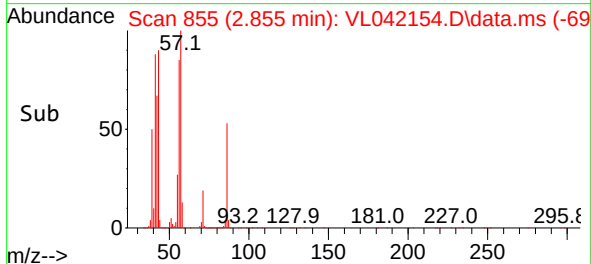
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1



Tgt Ion: 57 Resp: 663460
Ion Ratio Lower Upper
57 100
41 102.5 70.6 106.0
43 85.8 199.4 299.0
56 82.6 42.6 64.0#

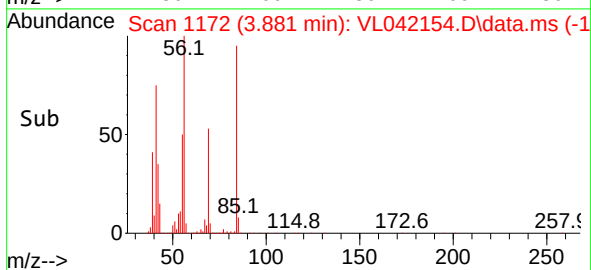
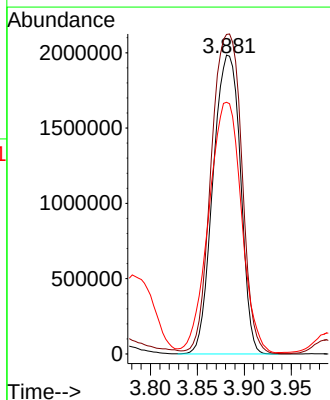
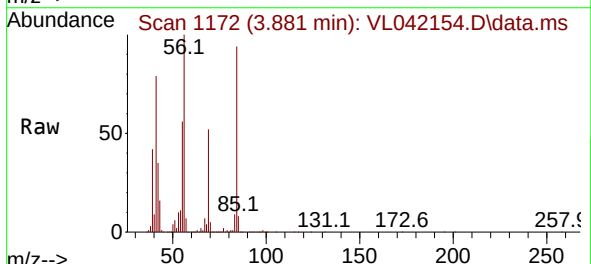
Manual Integrations
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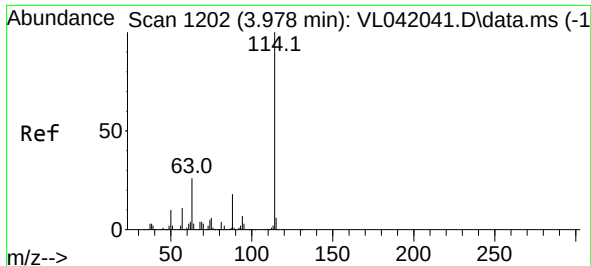
Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025



#30
Cyclohexane
Concen: 181.143 ppbv
RT: 3.881 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51

Tgt Ion: 84 Resp: 4024741
Ion Ratio Lower Upper
84 100
56 119.1 101.5 152.3
41 99.4 62.6 93.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL042154.D

Acq: 17 Mar 2025 12:51

Instrument :

MSVOA_L

ClientSampleId :

565-SG-1

Tgt Ion:114 Resp: 526330

Ion Ratio Lower Upper

114 100

63 26.4 20.1 30.1

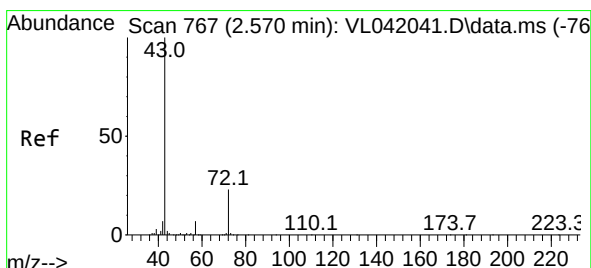
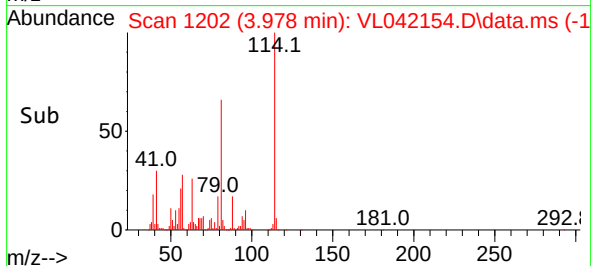
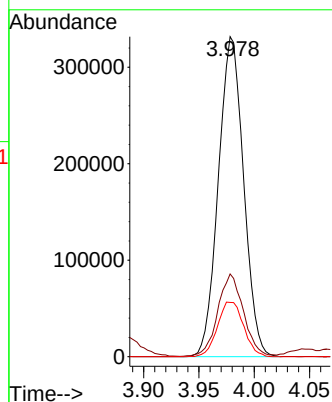
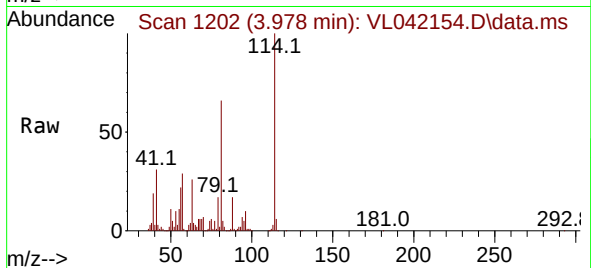
88 17.7 14.3 21.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/18/2025

Supervised By :Mahesh Dadoda 03/18/2025



#34

2-Butanone

Concen: 8.374 ppbv

RT: 2.567 min Scan# 766

Delta R.T. -0.003 min

Lab File: VL042154.D

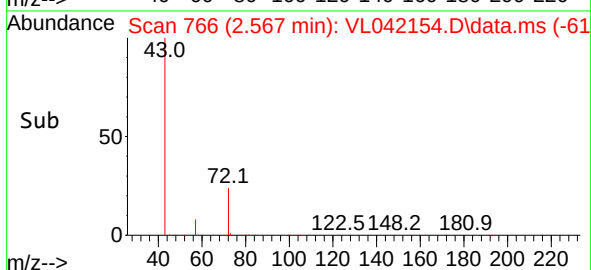
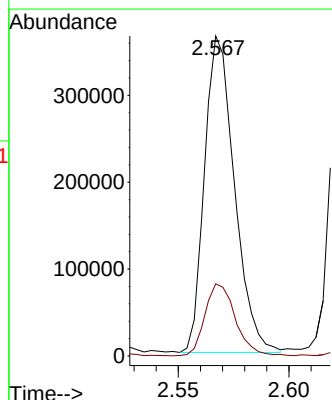
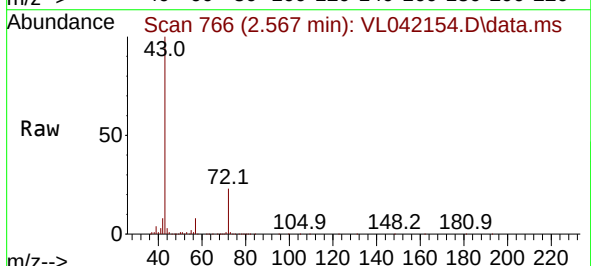
Acq: 17 Mar 2025 12:51

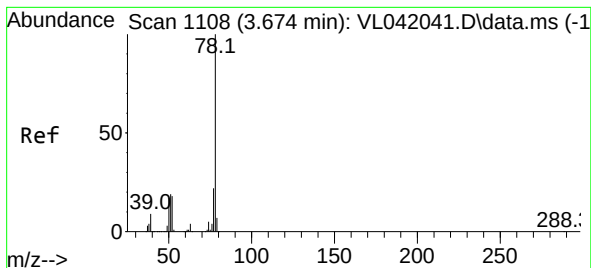
Tgt Ion: 43 Resp: 343349

Ion Ratio Lower Upper

43 100

72 23.1 18.5 27.7





#36

Benzene

Concen: 71.311 ppbv

RT: 3.677 min Scan# 1109

Delta R.T. 0.003 min

Lab File: VL042154.D

Acq: 17 Mar 2025 12:51

Instrument :

MSVOA_1

ClientSampleId :

565-SG-1

Tgt Ion: 78 Resp: 392914

Ion Ratio Lower Upper

78 100

77 35.4 17.7 26.5

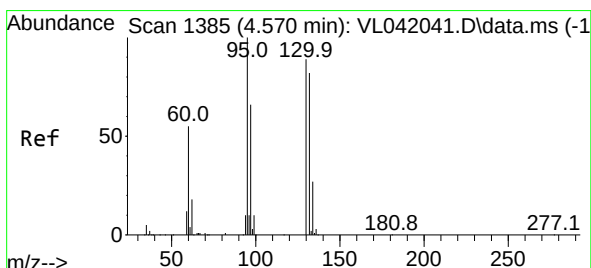
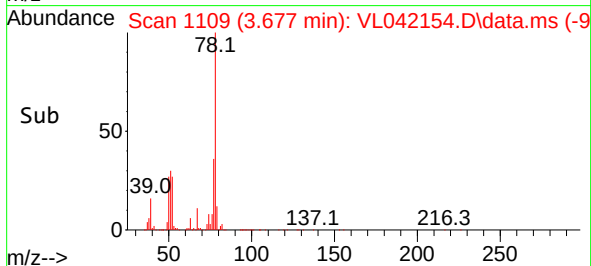
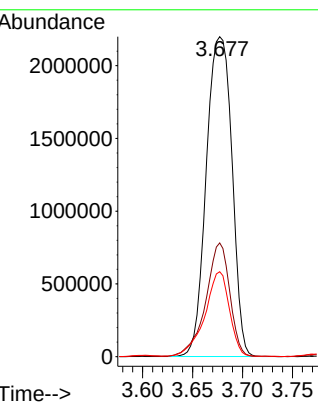
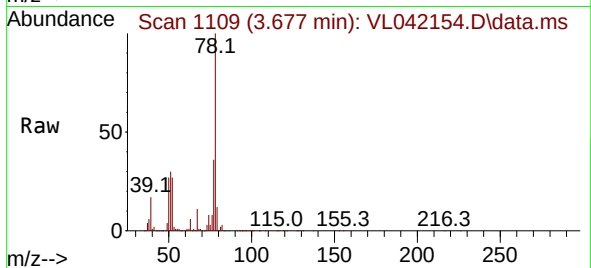
50 26.4 13.9 20.9

Manual Integrations

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Supervised By :Mahesh Dadoda 03/18/2025



#38

Trichloroethene

Concen: 0.097 ppbv m

RT: 4.580 min Scan# 1388

Delta R.T. 0.010 min

Lab File: VL042154.D

Acq: 17 Mar 2025 12:51

Tgt Ion:130 Resp: 2186

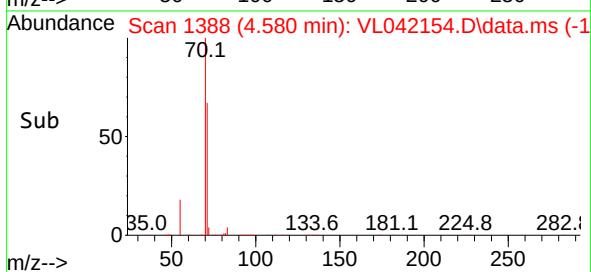
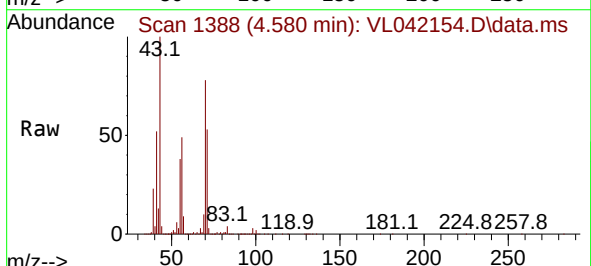
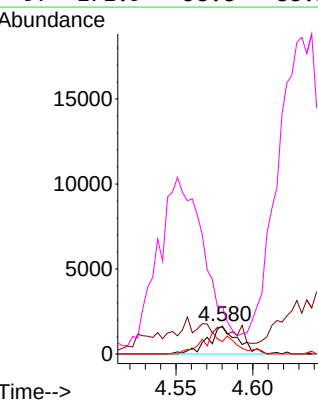
Ion Ratio Lower Upper

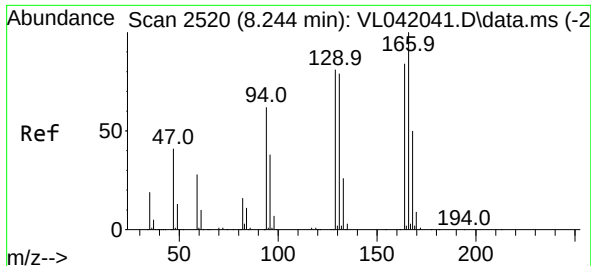
130 100

95 96.6 89.5 134.3

132 44.7 73.8 110.6#

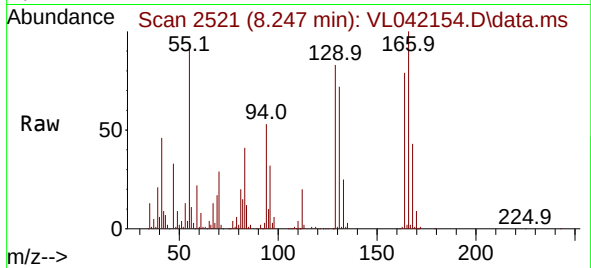
97 171.9 58.8 88.2#





#52
Tetrachloroethene
Concen: 4.465 ppbv
RT: 8.247 min Scan# 2123
Delta R.T. 0.003 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51

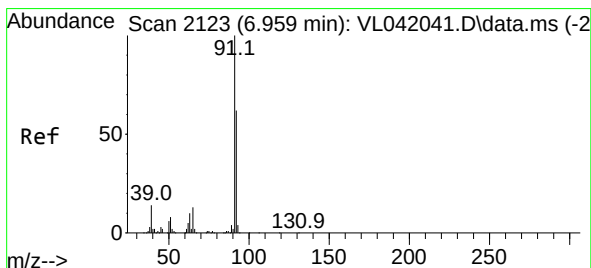
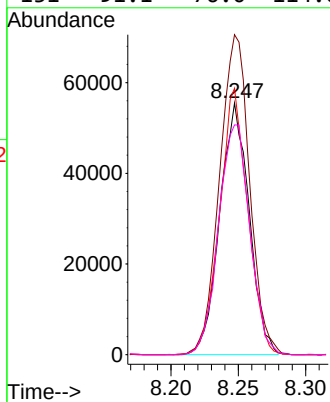
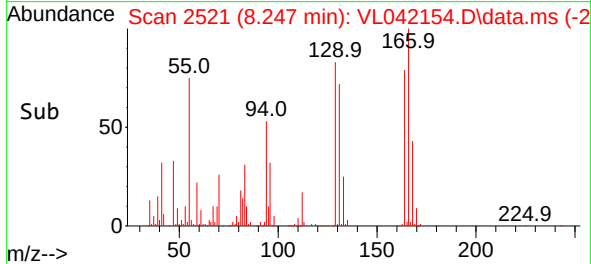
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1



Tgt Ion:164 Resp: 84220
Ion Ratio Lower Upper
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129 105.7 77.1 115.7
131 91.1 76.0 114.0

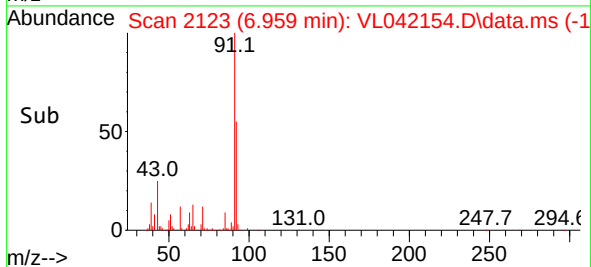
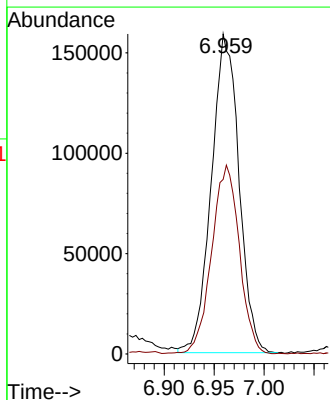
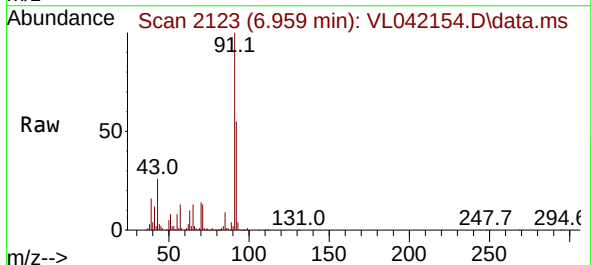
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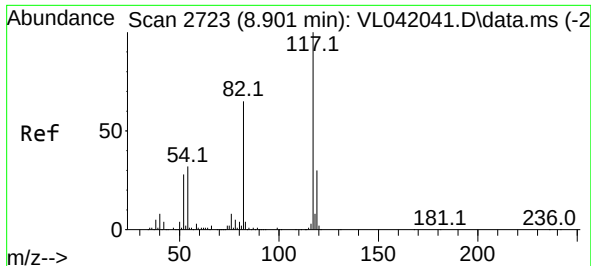
Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025



#53
Toluene
Concen: 4.958 ppbv
RT: 6.959 min Scan# 2123
Delta R.T. -0.000 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51

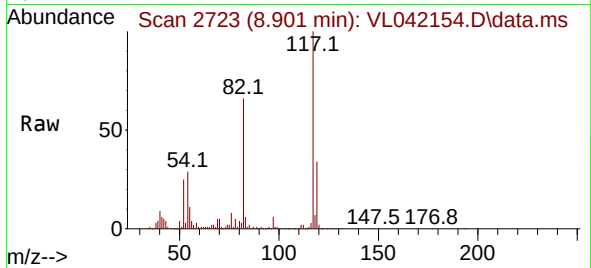
Tgt Ion: 91 Resp: 305311
Ion Ratio Lower Upper
91 100
92 59.5 49.0 73.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. -0.000 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51

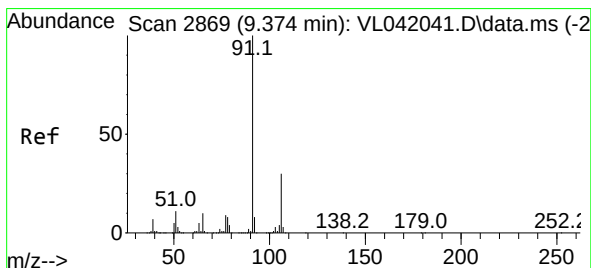
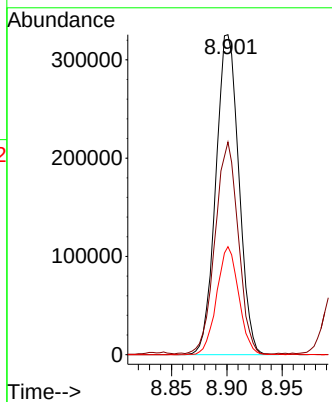
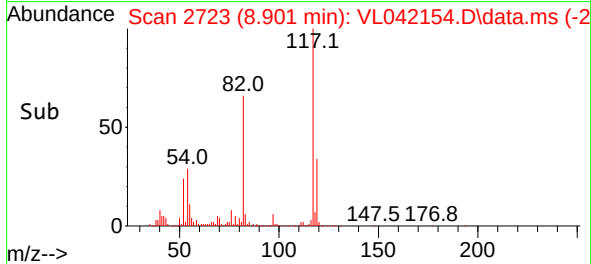
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1



Tgt Ion:117 Resp: 471209
Ion Ratio Lower Upper
117 100
82 66.6 55.0 82.6
119 32.3 25.9 38.9

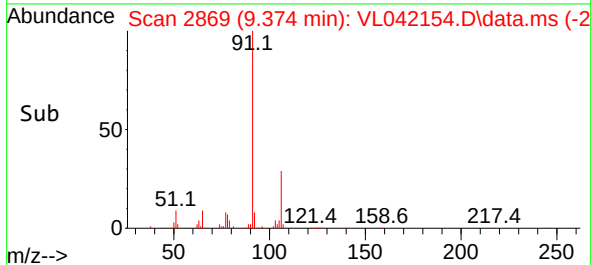
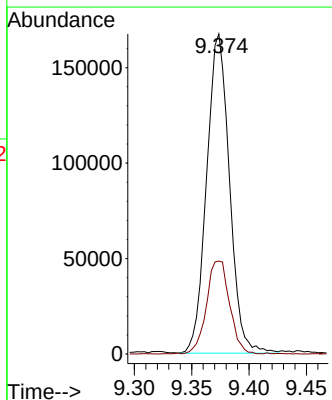
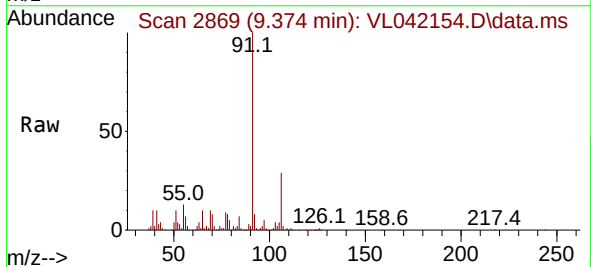
Manual Integrations
APPROVED

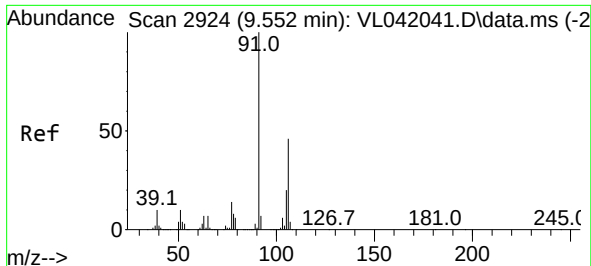
Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025



#58
Ethyl Benzene
Concen: 2.675 ppbv
RT: 9.374 min Scan# 2869
Delta R.T. -0.000 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51

Tgt Ion: 91 Resp: 232110
Ion Ratio Lower Upper
91 100
106 29.0 24.2 36.2





#59

m/p-Xylene

Concen: 9.741 ppbv

RT: 9.548 min Scan# 2924

Delta R.T. -0.003 min

Lab File: VL042154.D

Acq: 17 Mar 2025 12:51

Instrument :

MSVOA_L

ClientSampleId :

565-SG-1

Tgt Ion: 91 Resp: 672715

Ion Ratio Lower Upper

91 100

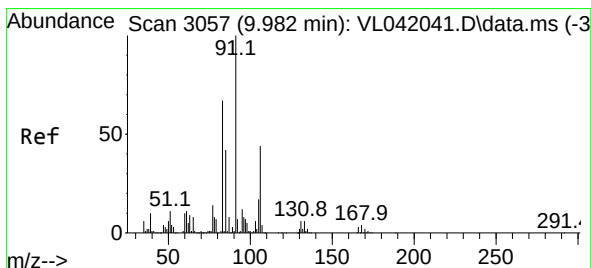
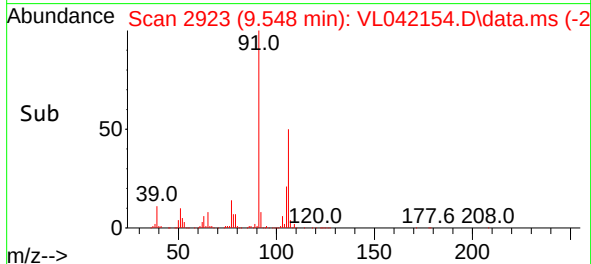
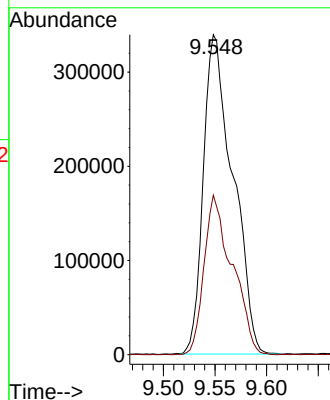
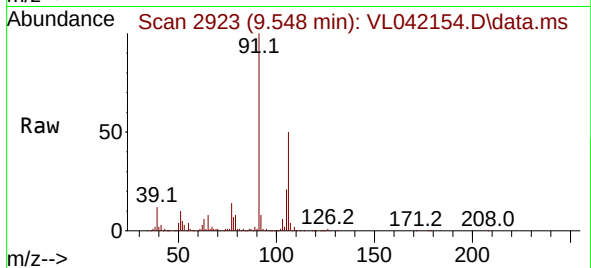
106 47.9 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/18/2025

Supervised By :Mahesh Dadoda 03/18/2025



#60

o-Xylene

Concen: 2.898 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. -0.000 min

Lab File: VL042154.D

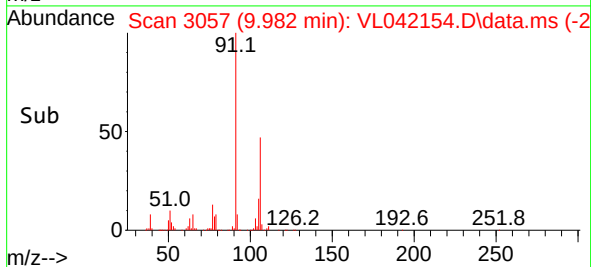
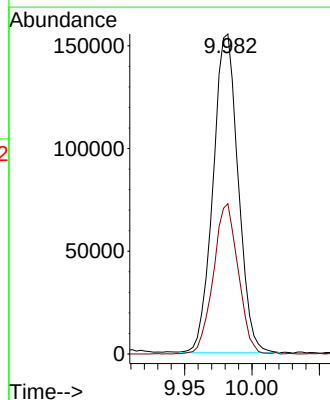
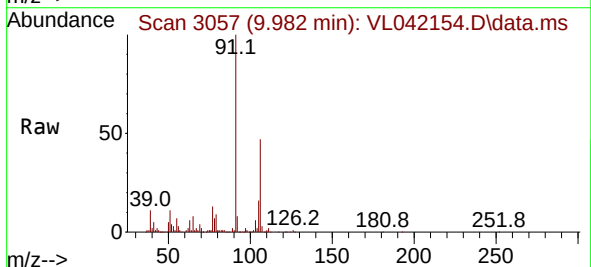
Acq: 17 Mar 2025 12:51

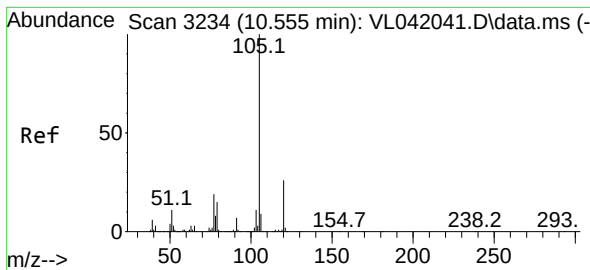
Tgt Ion: 91 Resp: 201180

Ion Ratio Lower Upper

91 100

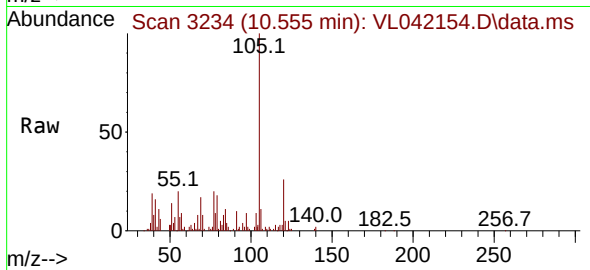
106 46.7 22.3 66.8





#62
Isopropylbenzene
Concen: 0.212 ppbv
RT: 10.555 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51

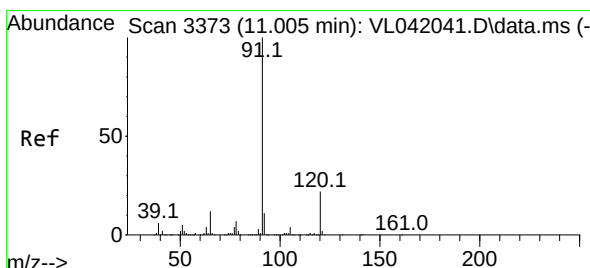
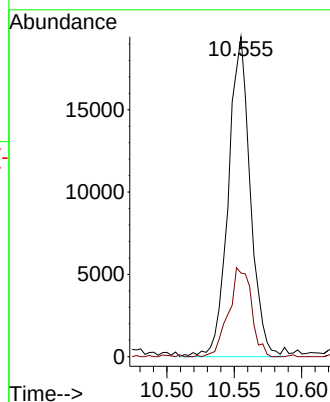
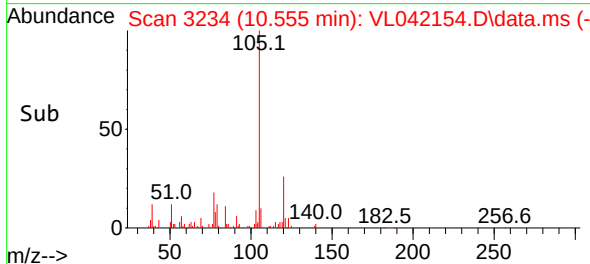
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1



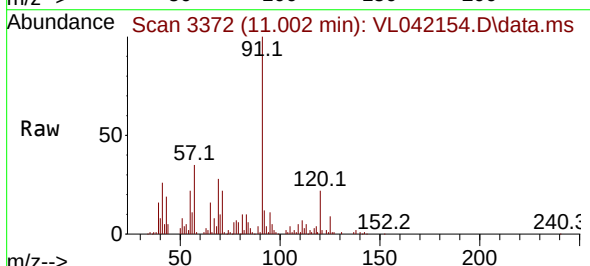
Tgt Ion:105 Resp: 2205
Ion Ratio Lower Upper
105 100
120 29.4 20.7 31.1

Manual Integrations
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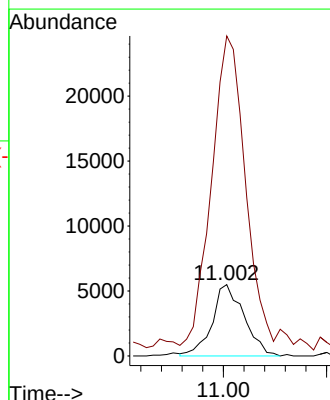
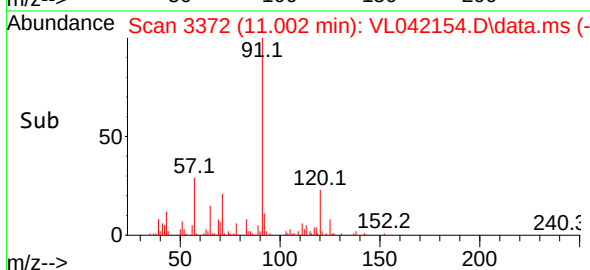
Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025

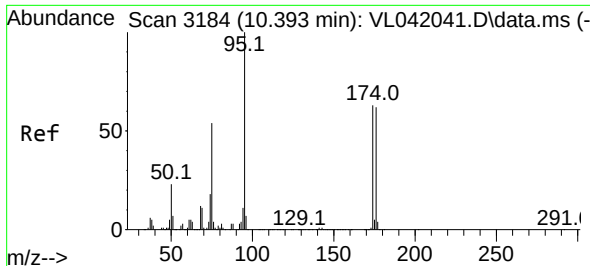


#64
n-propylbenzene
Concen: 0.216 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. -0.003 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51



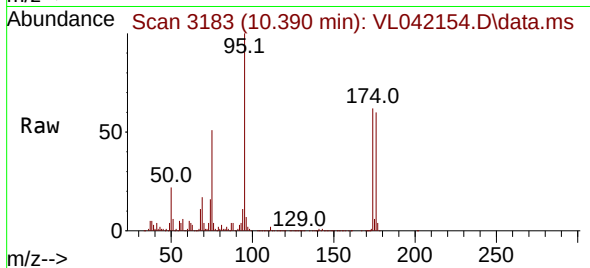
Tgt Ion:120 Resp: 5898
Ion Ratio Lower Upper
120 100
91 507.1 370.6 556.0





#68
1-Bromo-4-Fluorobenzene
Concen: 9.647 ppbv
RT: 10.390 min Scan# 3184
Delta R.T. -0.003 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51

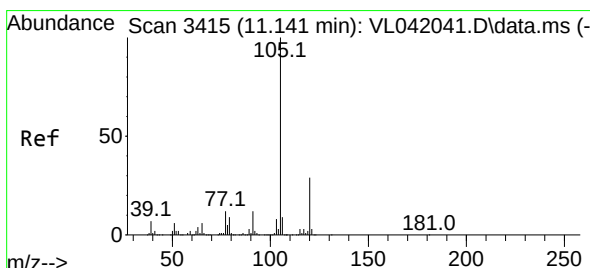
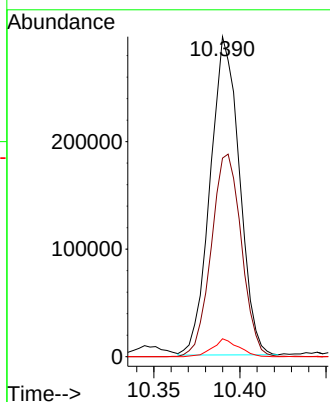
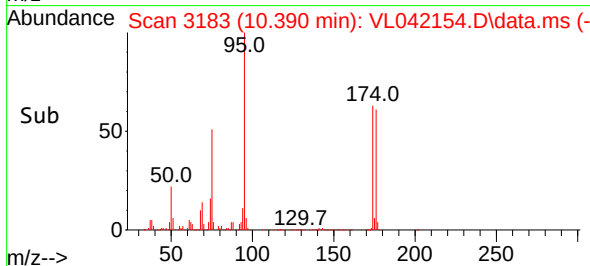
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1



Tgt Ion: 95 Resp: 349708
Ion Ratio Lower Upper
95 100
174 65.7 51.8 77.6
175 5.0 3.9 5.9

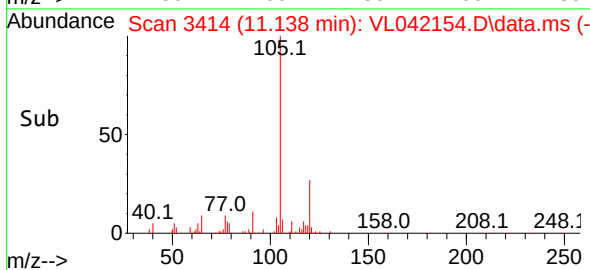
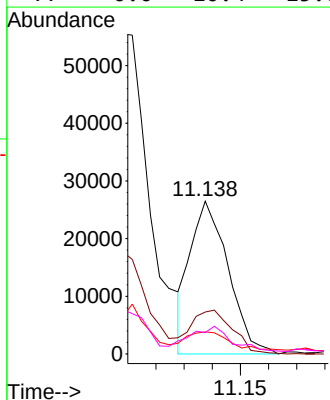
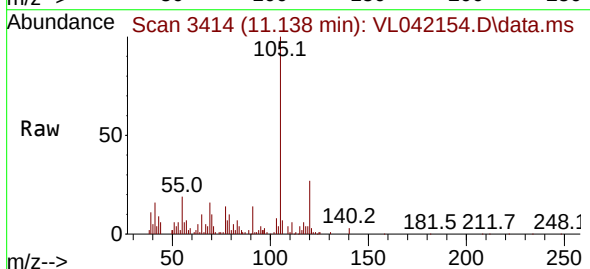
Manual Integrations
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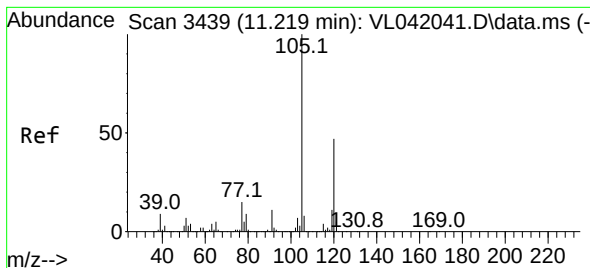
Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025



#72
4-Ethyltoluene
Concen: 0.294 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. -0.003 min
Lab File: VL042154.D
Acq: 17 Mar 2025 12:51

Tgt Ion:105 Resp: 24902
Ion Ratio Lower Upper
105 100
120 0.0 24.1 36.1#
91 0.0 10.2 15.4#
77 0.0 10.4 15.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.517 ppbv

RT: 11.215 min Scan# 3439

Delta R.T. -0.003 min

Lab File: VL042154.D

Acq: 17 Mar 2025 12:51

Instrument :

MSVOA_1

ClientSampleId :

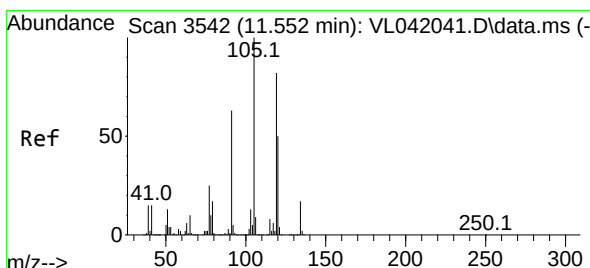
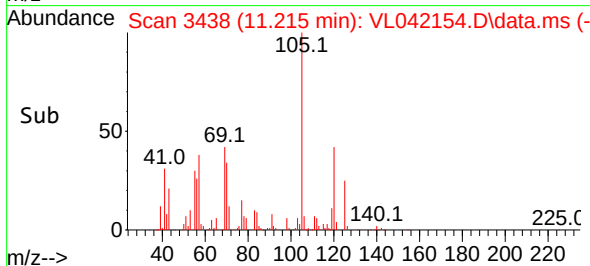
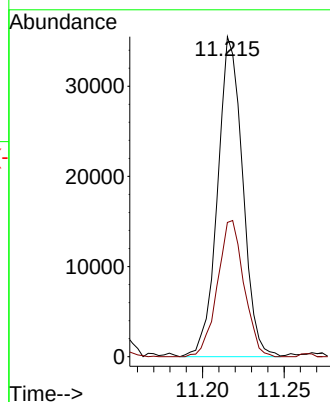
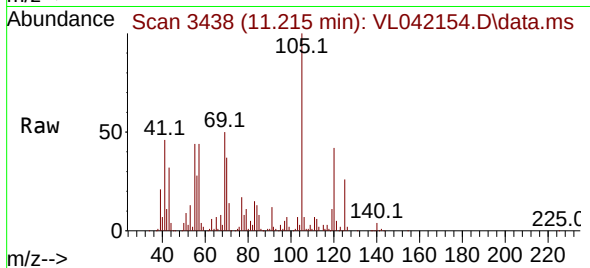
565-SG-1

Tgt Ion:105 Resp: 38025
 Ion Ratio Lower Upper
 105 100
 120 41.9 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/18/2025
 Supervised By :Mahesh Dadoda 03/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.902 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. -0.003 min

Lab File: VL042154.D

Acq: 17 Mar 2025 12:51

Tgt Ion:105 Resp: 74719
 Ion Ratio Lower Upper
 105 100
 120 43.8 40.2 60.2
 91 9.9 51.4 77.2#
 77 13.2 20.1 30.1#

