

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
 Data File : VL042422.D
 Acq On : 28 Apr 2025 12:51
 Operator : SY/MD
 Sample : Q1665-16
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-3242025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 29 01:35:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

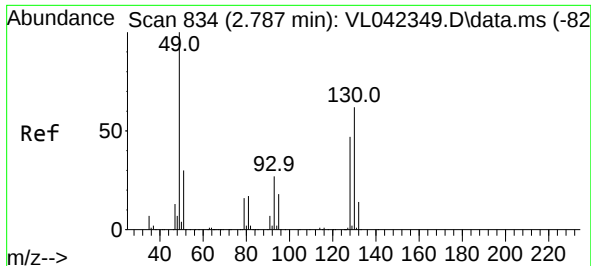
QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	143445	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	401346	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	346372	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	304530	10.699	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.000%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.495	85	10522	0.415	ppbv	95
3) Chlorodifluoromethane	1.473	51	6648m	0.275	ppbv	
4) Chloromethane	1.528	50	10118	1.009	ppbv #	85
9) Propene	1.483	41	13832m	1.259	ppbv	
10) Heptane	4.968	43	20505m	0.664	ppbv	
11) Trichlorofluoromethane	1.874	101	5172	0.215	ppbv	93
13) Ethanol	1.719	45	834583	477.751	ppbv	78
15) Acetone	1.832	43	273996	11.668	ppbv	98
17) tert-Butyl alcohol	2.039	59	7025m	0.241	ppbv	
19) Isopropyl Alcohol	1.881	45	382160	29.296	ppbv #	34
20) Methylene Chloride	2.059	84	5939	0.646	ppbv #	95
26) Hexane	2.816	57	74514	3.180	ppbv #	37
29) Chloroform	2.839	83	6046	0.183	ppbv #	82
30) Cyclohexane	3.849	84	9447	0.499	ppbv	90
34) 2-Butanone	2.554	43	25286	0.797	ppbv	99
35) Carbon Tetrachloride	3.751	117	3431m	0.094	ppbv	
36) Benzene	3.645	78	29627	0.684	ppbv #	91
41) Tetrahydrofuran	3.065	42	2983m	0.161	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	77694m	1.039	ppbv	
53) Toluene	6.923	91	350451	6.746	ppbv	99
58) Ethyl Benzene	9.348	91	39720	0.579	ppbv	94
59) m/p-Xylene	9.522	91	108081	1.955	ppbv	97
60) o-Xylene	9.956	91	38480	0.691	ppbv	95
61) Styrene	9.862	104	6537m	0.246	ppbv	
64) n-propylbenzene	10.982	120	2864	0.139	ppbv #	46
69) p-Isopropyltoluene	11.921	119	17184	0.189	ppbv	98
71) 2-Chlorotoluene	10.895	91	20426	0.319	ppbv	94
72) 4-Ethyltoluene	11.118	105	16614	0.244	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.199	105	16186	0.269	ppbv	92
74) 1,2,4-Trimethylbenzene	11.529	105	53644	0.764	ppbv #	61

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



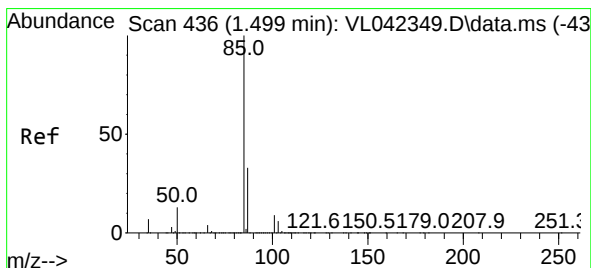
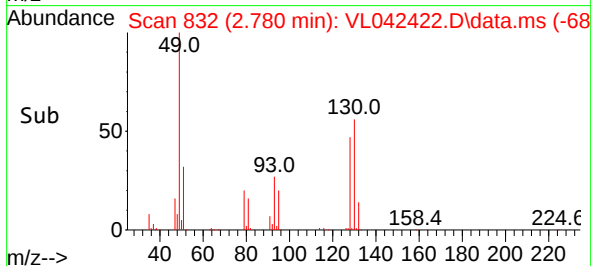
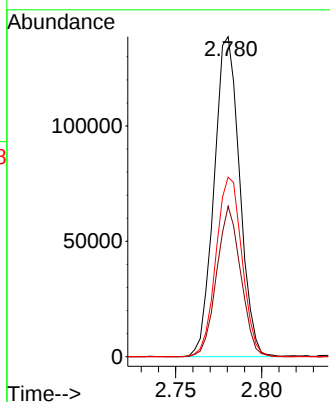
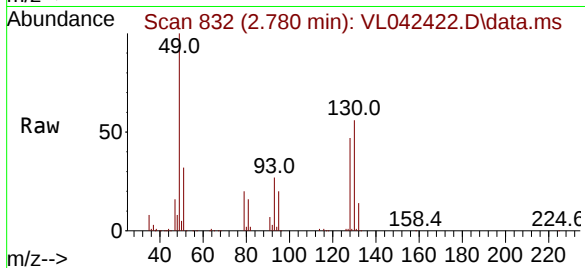
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025

Tgt Ion: 49 Resp: 14344
Ion Ratio Lower Upper
49 100
128 44.3 22.8 68.4
130 57.0 29.3 88.0

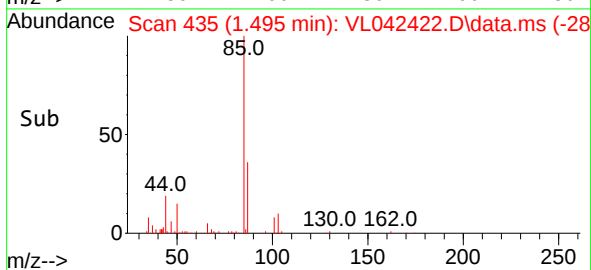
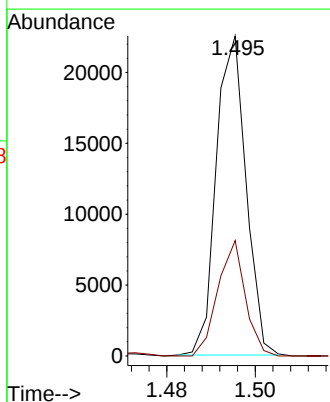
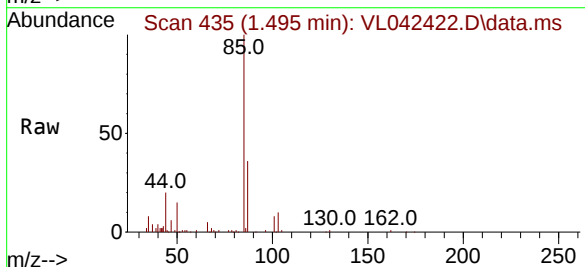
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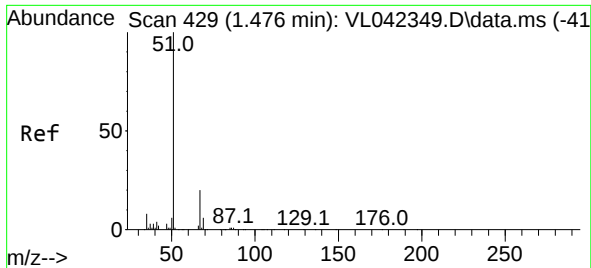
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#2
Dichlorodifluoromethane
Concen: 0.415 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 85 Resp: 10522
Ion Ratio Lower Upper
85 100
87 36.2 26.6 39.8





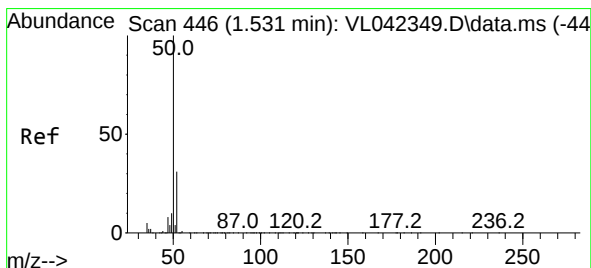
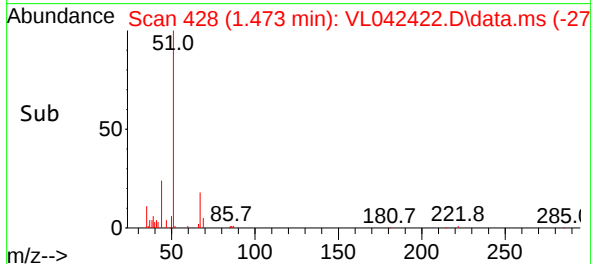
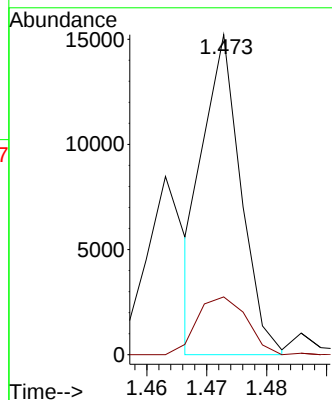
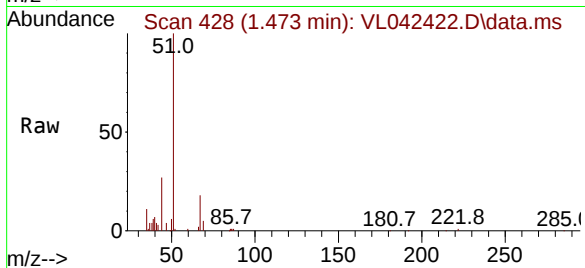
#3
Chlorodifluoromethane
Concen: 0.275 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025

Tgt Ion: 51 Resp: 664
Ion Ratio Lower Upper
51 100
67 24.4 16.2 24.4

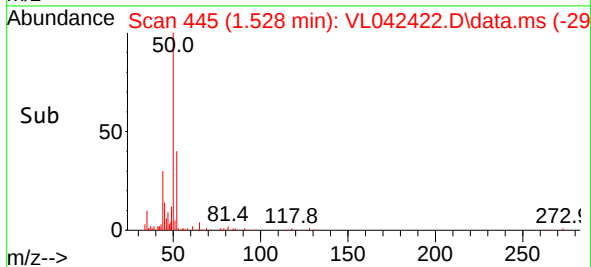
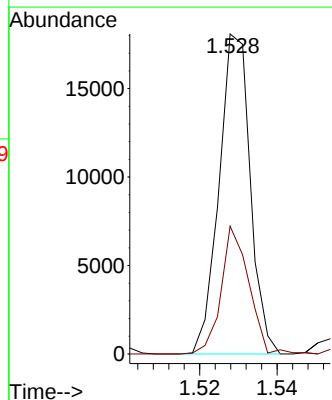
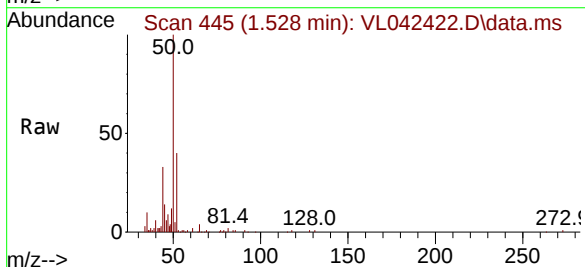
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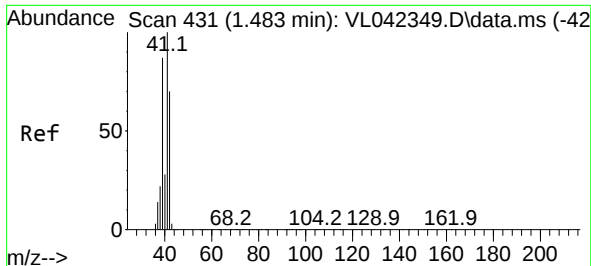
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#4
Chloromethane
Concen: 1.009 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

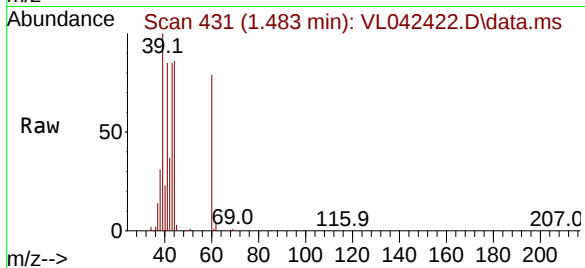
Tgt Ion: 50 Resp: 10118
Ion Ratio Lower Upper
50 100
52 39.3 24.7 37.1





#9
 Propene
 Concen: 1.259 ppbv m
 RT: 1.483 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042422.D
 Acq: 28 Apr 2025 12:51

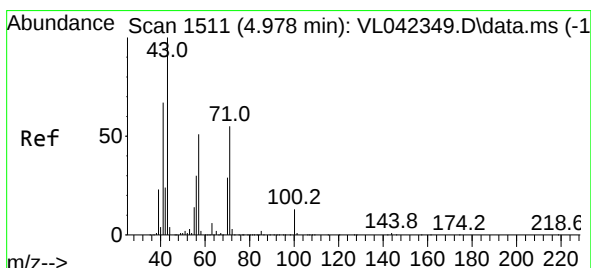
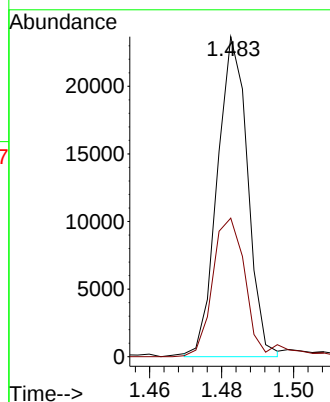
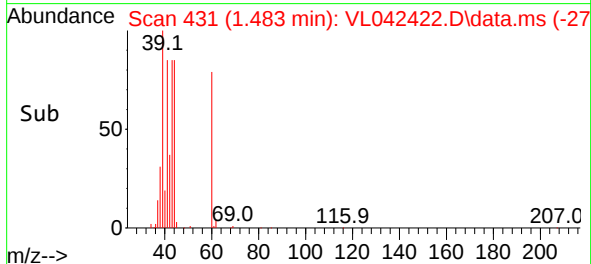
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-3242025



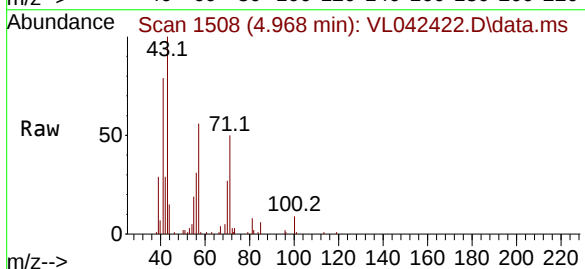
Tgt Ion: 41 Resp: 1383
 Ion Ratio Lower Upper
 41 100
 42 155.2 56.2 84.4

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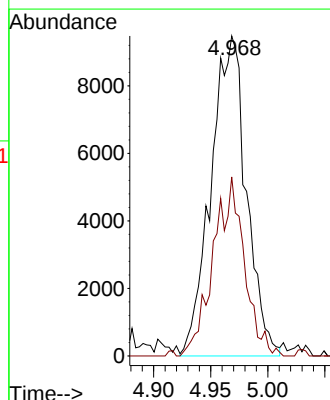
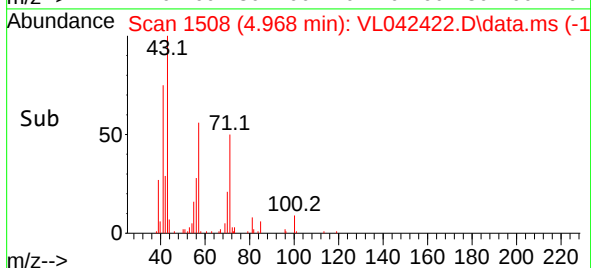
Reviewed By :Semsettin Yesilyurt 04/29/2025
 Supervised By :Mahesh Dadoda 04/30/2025

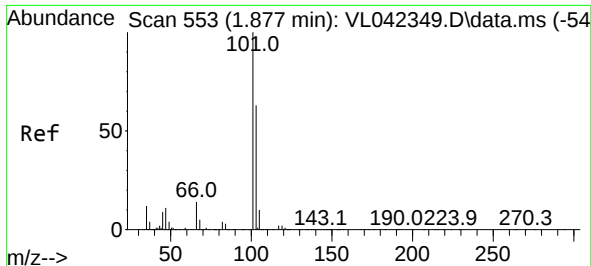


#10
 Heptane
 Concen: 0.664 ppbv m
 RT: 4.968 min Scan# 1508
 Delta R.T. -0.010 min
 Lab File: VL042422.D
 Acq: 28 Apr 2025 12:51



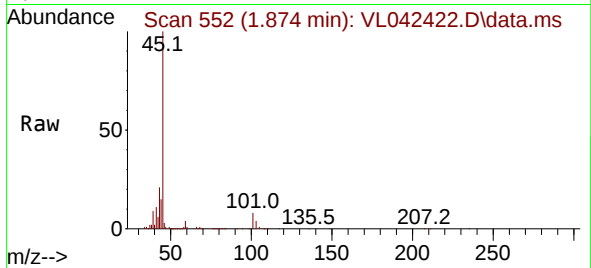
Tgt Ion: 43 Resp: 20505
 Ion Ratio Lower Upper
 43 100
 57 49.0 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.215 ppbv
RT: 1.874 min Scan# 517
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

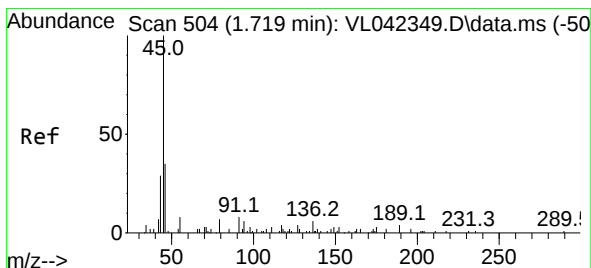
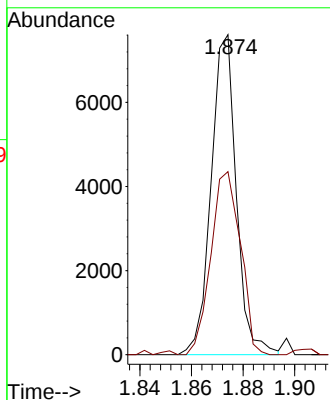
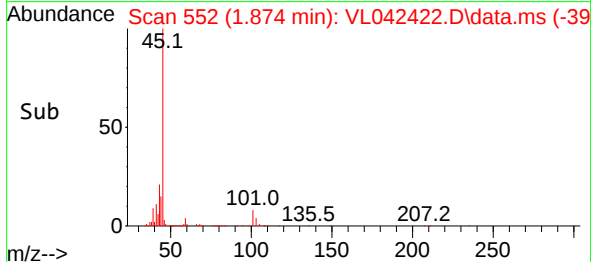
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025



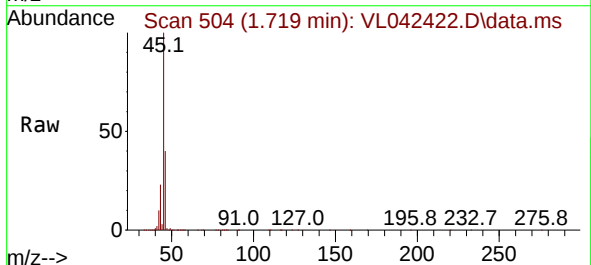
Tgt Ion:101 Resp: 517
Ion Ratio Lower Upper
101 100
103 57.2 50.1 75.1

Manual Integrations
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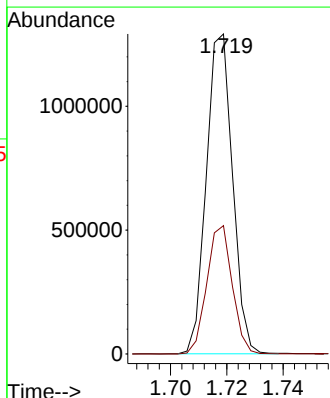
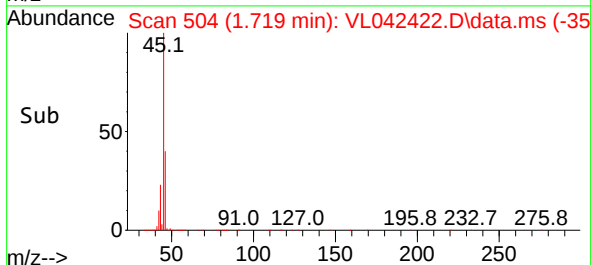
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

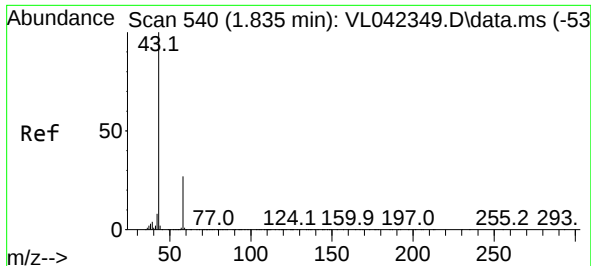


#13
Ethanol
Concen: 477.751 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51



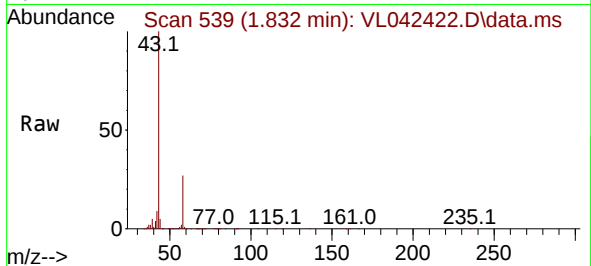
Tgt Ion: 45 Resp: 834583
Ion Ratio Lower Upper
45 100
46 39.0 21.9 87.7





#15
Acetone
Concen: 11.668 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

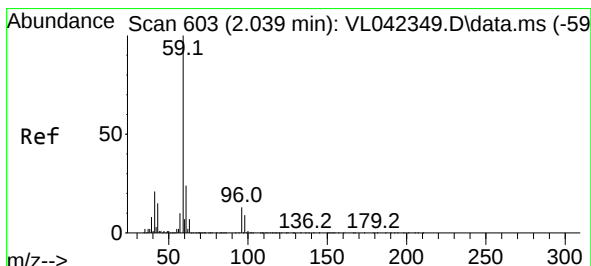
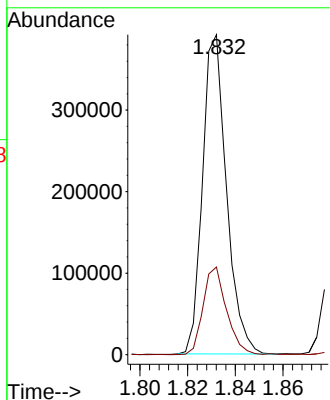
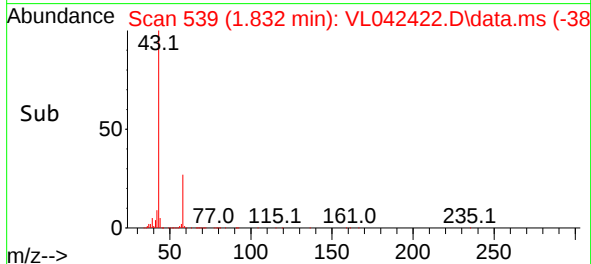
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025



Tgt Ion: 43 Resp: 273990
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6

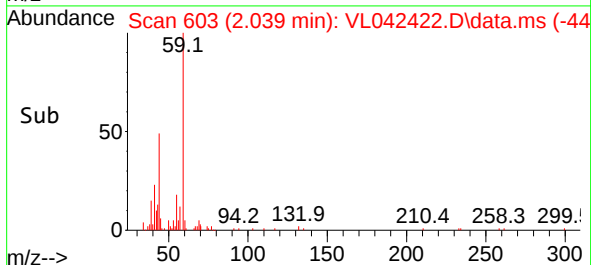
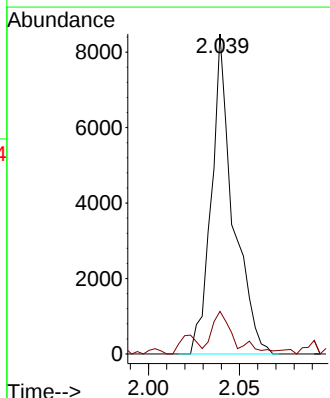
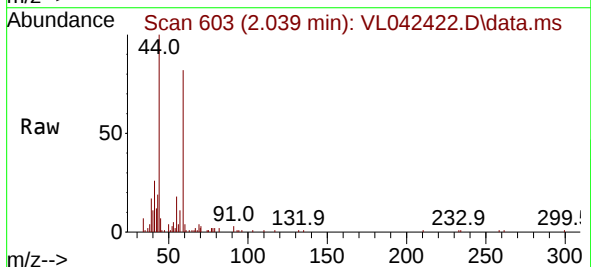
Manual Integrations
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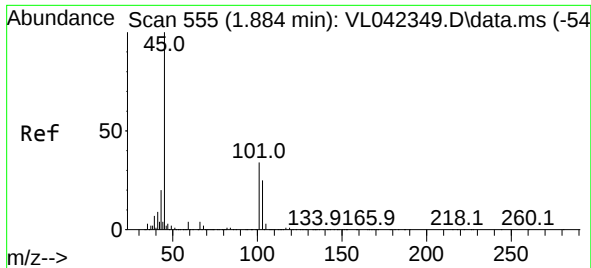
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#17
tert-Butyl alcohol
Concen: 0.241 ppbv m
RT: 2.039 min Scan# 603
Delta R.T. -0.000 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

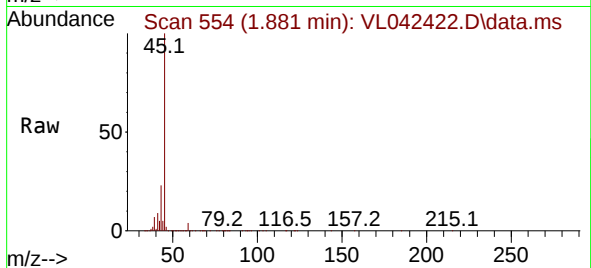
Tgt Ion: 59 Resp: 7025
Ion Ratio Lower Upper
59 100
57 26.7 8.7 13.1#





#19
Isopropyl Alcohol
Concen: 29.296 ppbv
RT: 1.881 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

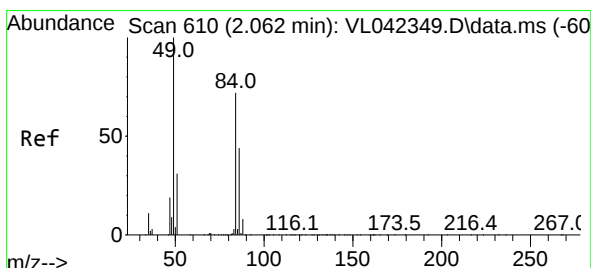
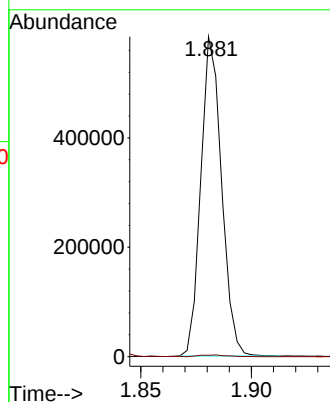
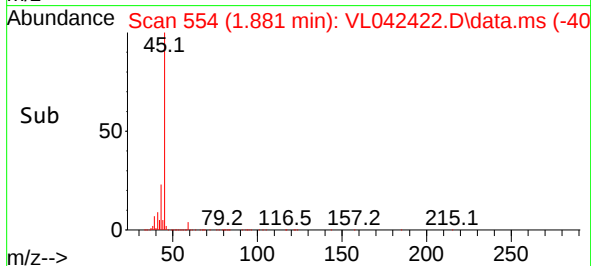
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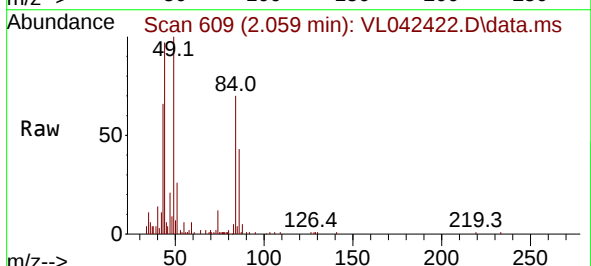
Tgt Ion: 45 Resp: 382160
Ion Ratio Lower Upper
45 100
58 0.8 34.5 51.7

Manual Integrations
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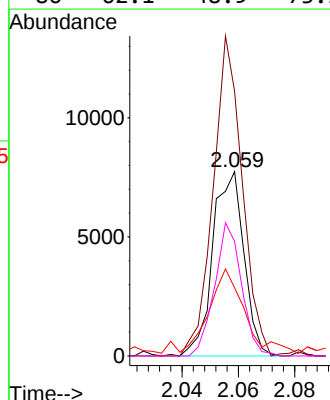
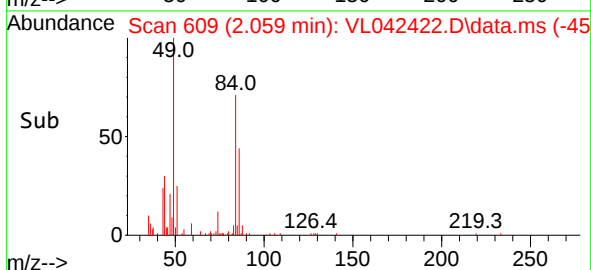
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

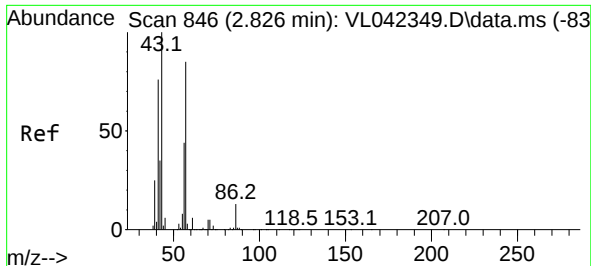


#20
Methylene Chloride
Concen: 0.646 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51



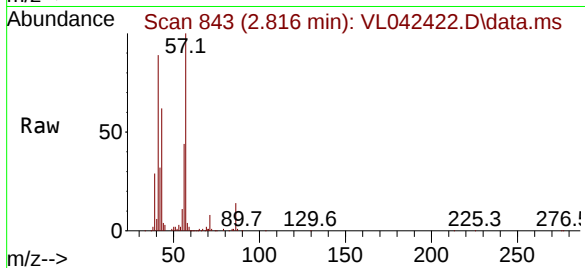
Tgt Ion: 84 Resp: 5939
Ion Ratio Lower Upper
84 100
49 143.4 111.6 167.4
51 35.0 35.1 52.7#
86 62.1 48.9 73.3





#26
Hexane
Concen: 3.180 ppbv
RT: 2.816 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

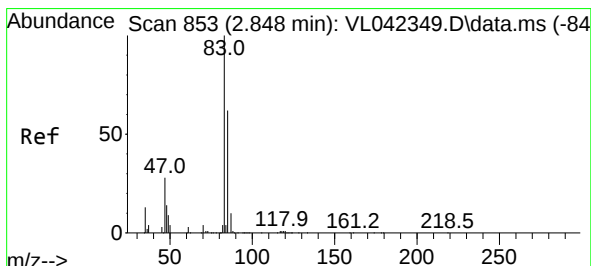
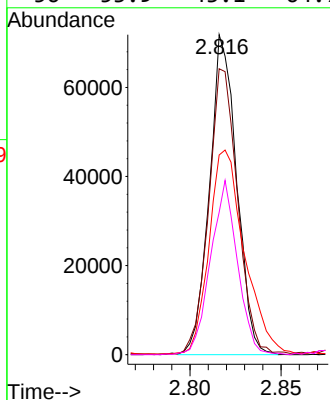
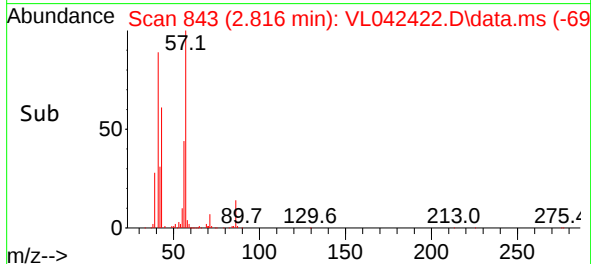
Instrument : MSVOA_L
ClientSampleId : IA-B2-5-3242025



Tgt Ion: 57 Resp: 74514
Ion Ratio Lower Upper
57 100
41 95.0 77.9 116.9
43 82.5 208.4 312.6
56 53.9 43.1 64.7

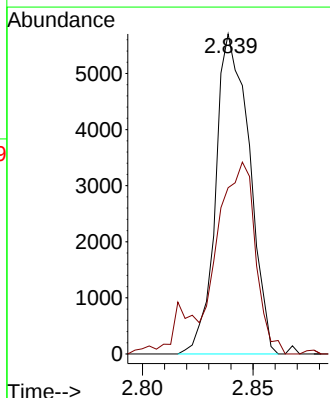
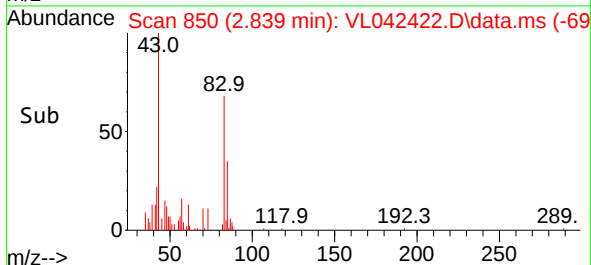
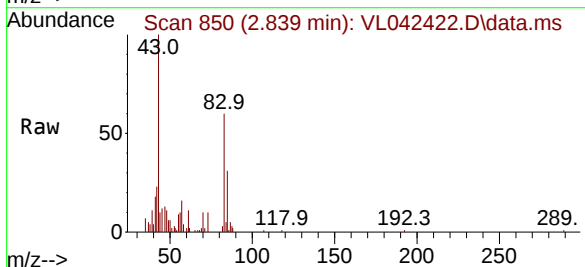
Manual Integrations
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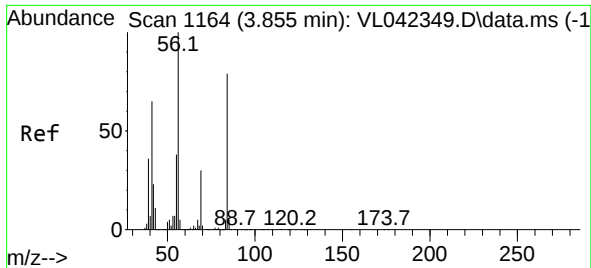
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#29
Chloroform
Concen: 0.183 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 83 Resp: 6046
Ion Ratio Lower Upper
83 100
85 49.0 50.0 75.0#





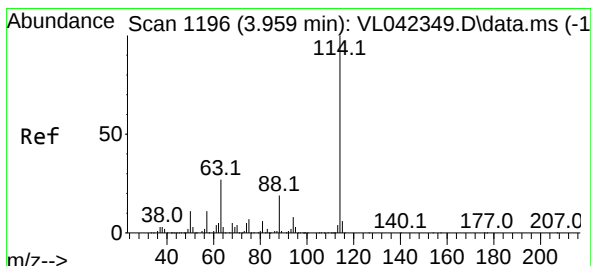
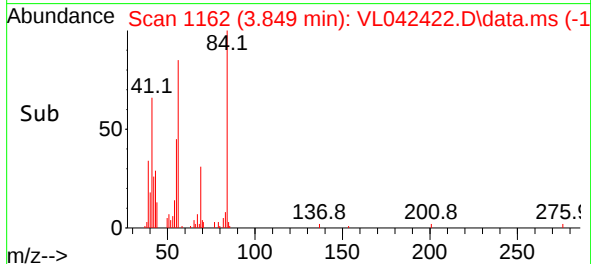
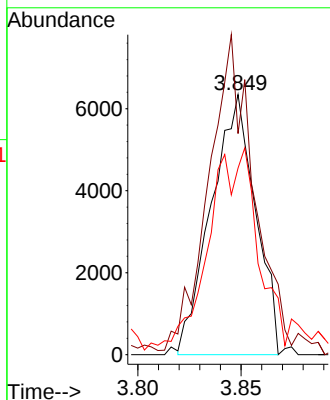
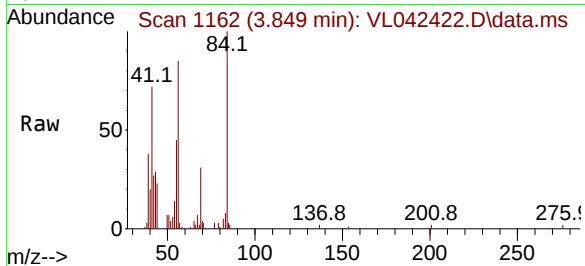
#30
Cyclohexane
Concen: 0.499 ppbv
RT: 3.849 min Scan# 1164
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Instrument : MSVOA_L
ClientSampleId : IA-B2-5-3242025

Tgt Ion: 84 Resp: 944
Ion Ratio Lower Upper
84 100
56 135.0 101.0 151.4
41 96.3 67.4 101.0

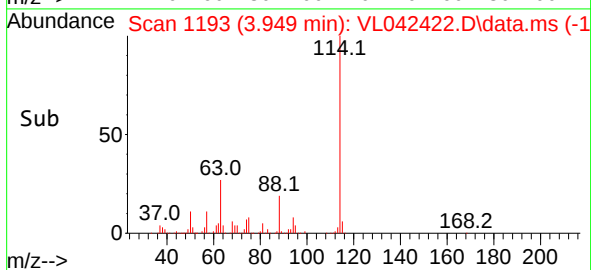
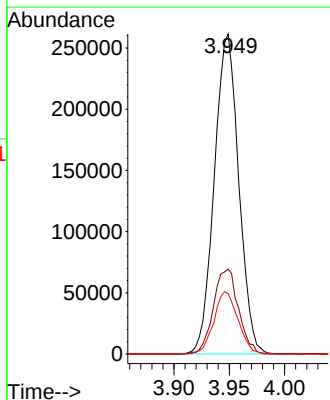
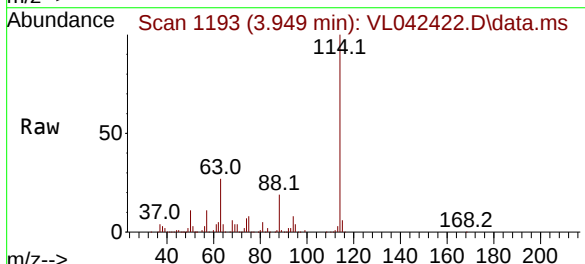
Manual Integrations
APPROVED

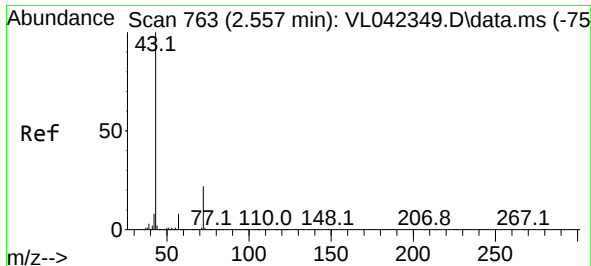
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

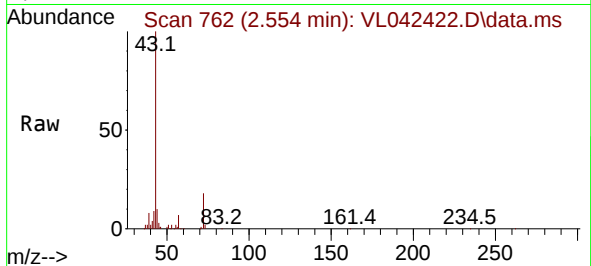
Tgt Ion:114 Resp: 401346
Ion Ratio Lower Upper
114 100
63 27.2 21.8 32.6
88 19.2 15.5 23.3





#34
2-Butanone
Concen: 0.797 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

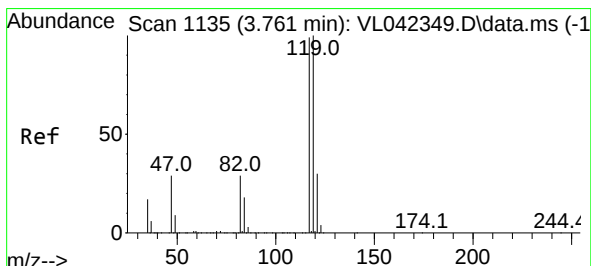
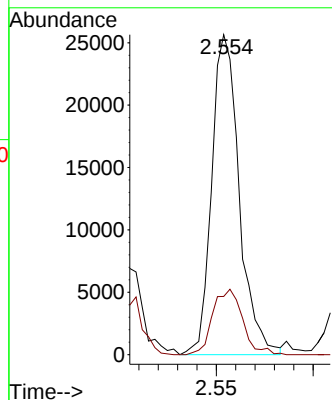
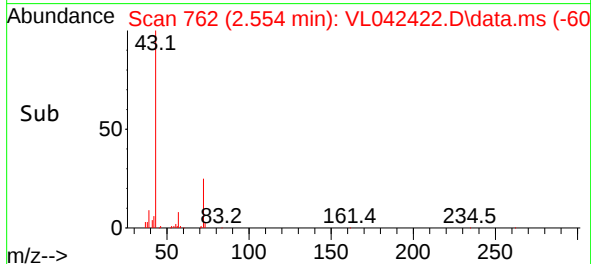
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025



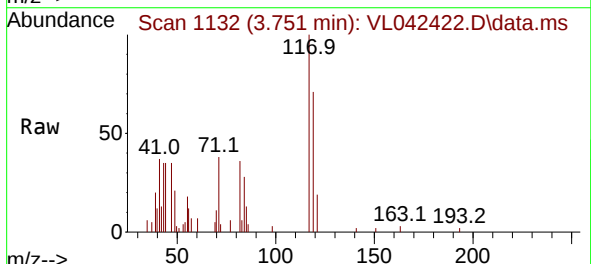
Tgt Ion: 43 Resp: 25280
Ion Ratio Lower Upper
43 100
72 22.2 18.2 27.2

Manual Integrations
APPROVED

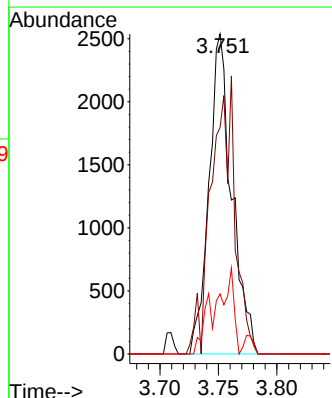
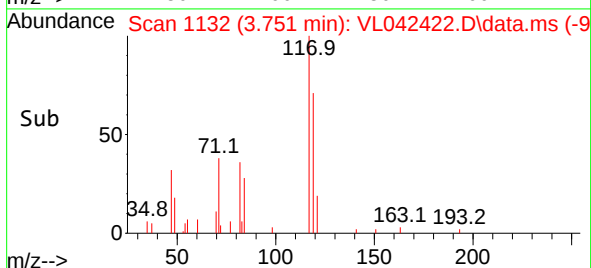
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

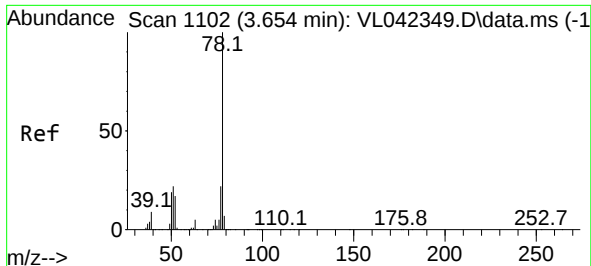


#35
Carbon Tetrachloride
Concen: 0.094 ppbv m
RT: 3.751 min Scan# 1132
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51



Tgt Ion:117 Resp: 3431
Ion Ratio Lower Upper
117 100
119 70.8 80.5 120.7#
121 18.8 24.2 36.2#





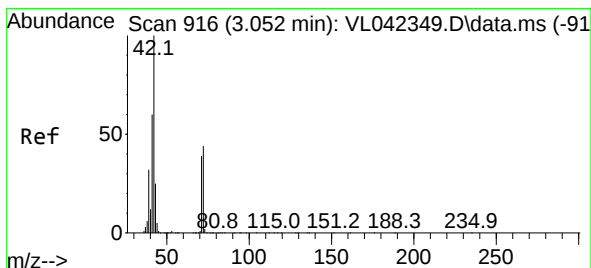
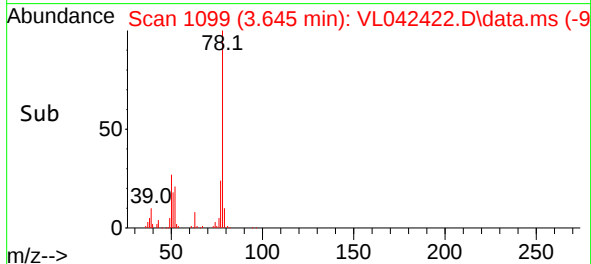
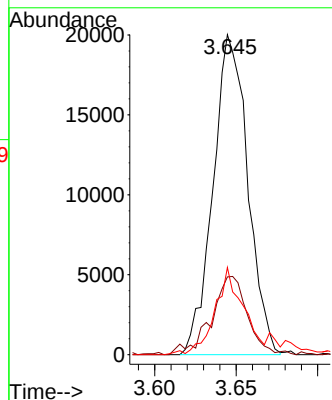
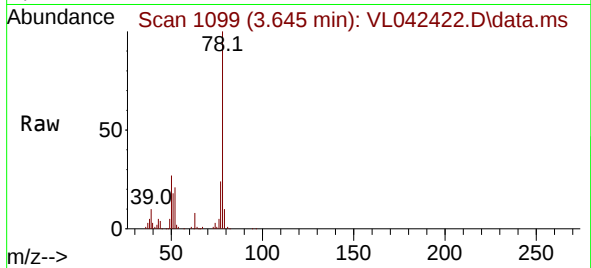
#36
Benzene
Concen: 0.684 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Instrument : MSVOA_L
ClientSampleId : IA-B2-5-3242025

Tgt Ion: 78 Resp: 2962
Ion Ratio Lower Upper
78 100
77 23.4 17.4 26.0
50 26.0 15.5 23.3

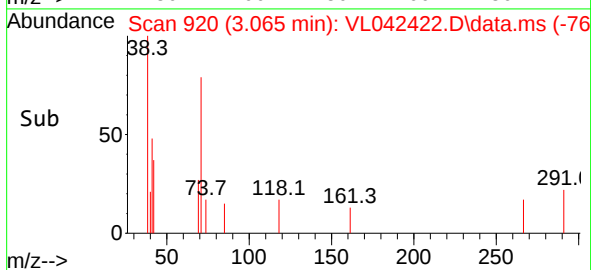
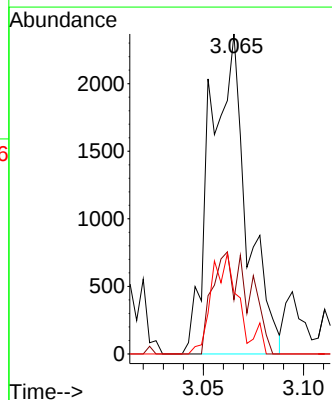
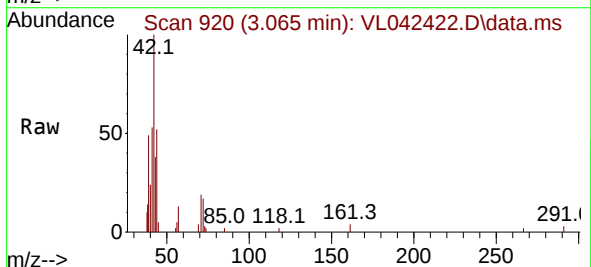
Manual Integrations
APPROVED

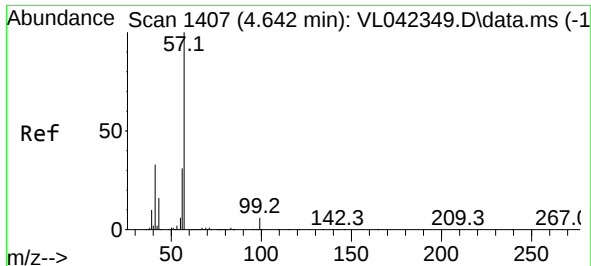
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#41
Tetrahydrofuran
Concen: 0.161 ppbv m
RT: 3.065 min Scan# 920
Delta R.T. 0.013 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 42 Resp: 2983
Ion Ratio Lower Upper
42 100
72 0.0 32.3 48.5#
71 0.0 31.4 47.2#





#44

2,2,4-Trimethylpentane

Concen: 1.039 ppbv m

RT: 4.632 min Scan# 1404

Delta R.T. -0.010 min

Lab File: VL042422.D

Acq: 28 Apr 2025 12:51

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-3242025

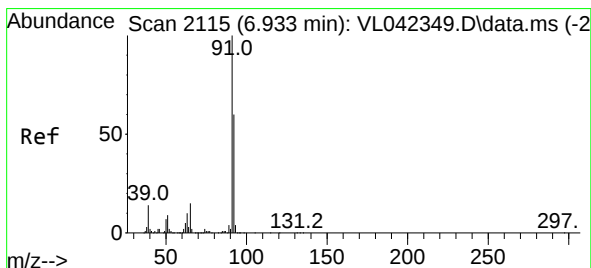
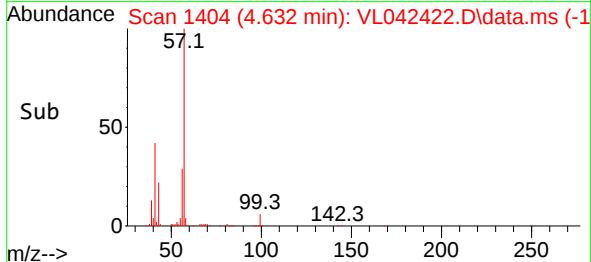
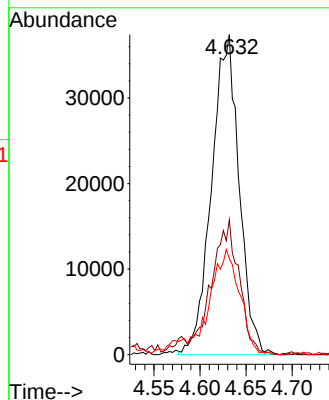
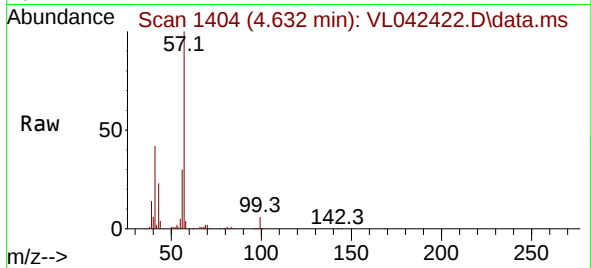
Tgt Ion: 57	Resp: 77694
Ion Ratio	Lower Upper
57 100	
41 44.2	27.2 40.8
56 38.7	25.7 38.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025

Supervised By :Mahesh Dadoda 04/30/2025



#53

Toluene

Concen: 6.746 ppbv

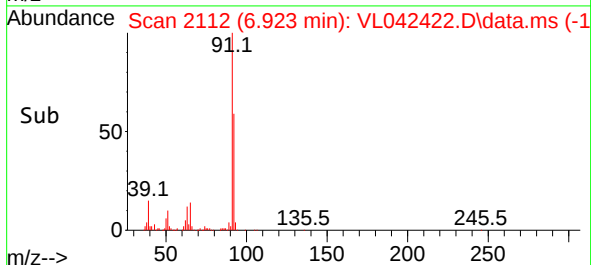
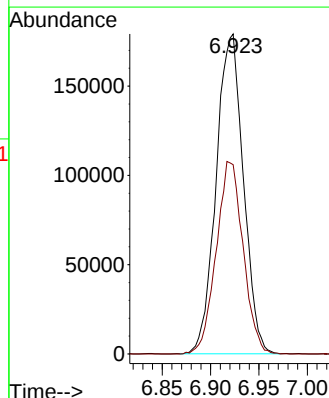
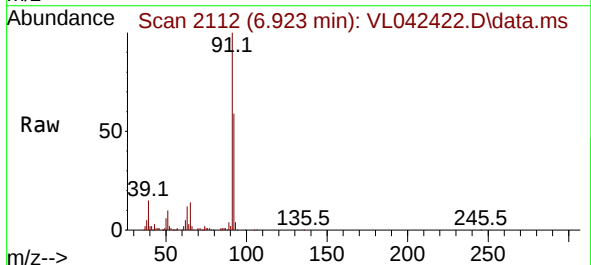
RT: 6.923 min Scan# 2112

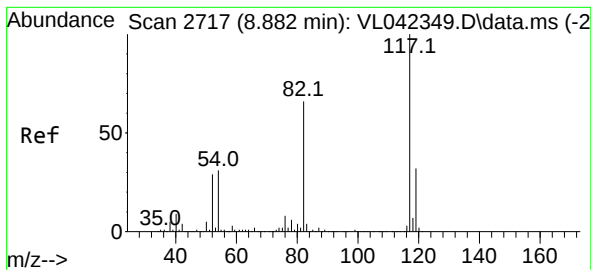
Delta R.T. -0.010 min

Lab File: VL042422.D

Acq: 28 Apr 2025 12:51

Tgt Ion: 91	Resp: 350451
Ion Ratio	Lower Upper
91 100	
92 59.5	48.2 72.4





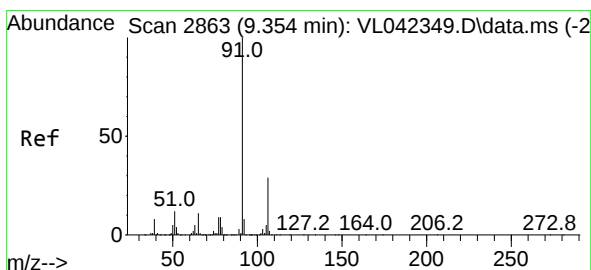
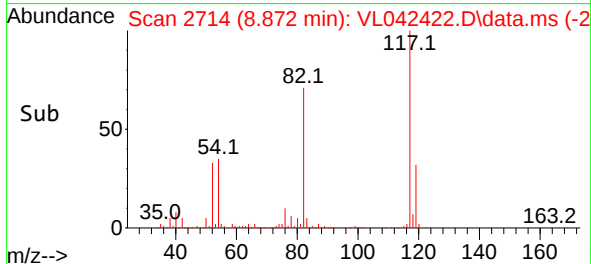
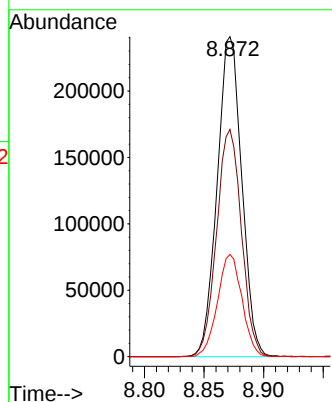
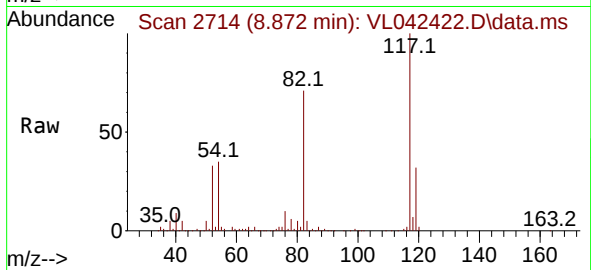
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025

Tgt Ion:117 Resp: 346372
Ion Ratio Lower Upper
117 100
82 71.5 57.8 86.6
119 31.7 25.2 37.8

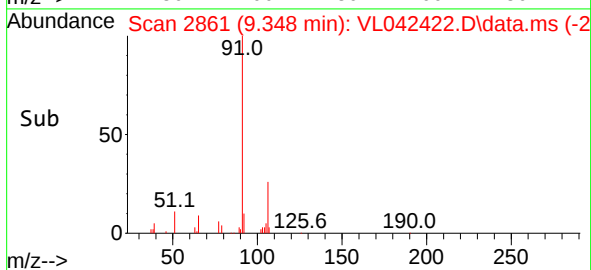
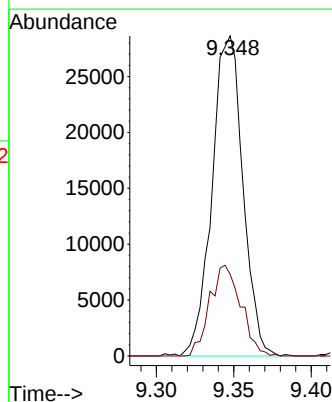
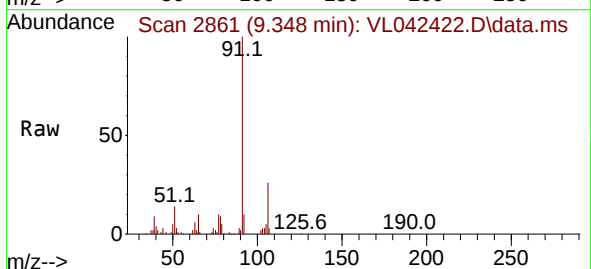
Manual Integrations
APPROVED

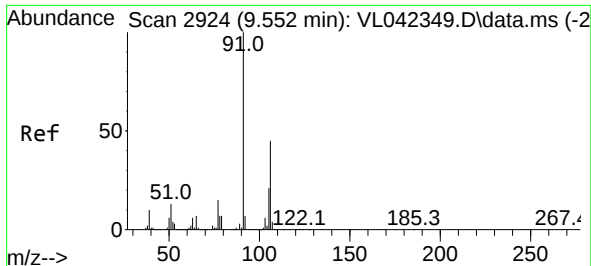
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#58
Ethyl Benzene
Concen: 0.579 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Tgt Ion: 91 Resp: 39720
Ion Ratio Lower Upper
91 100
106 25.5 23.0 34.4





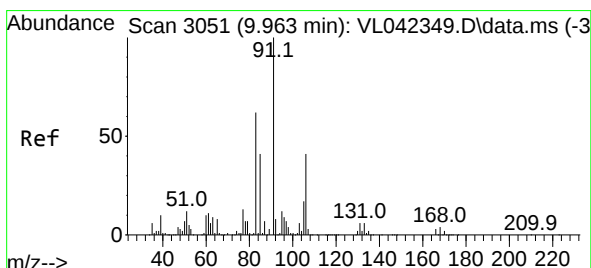
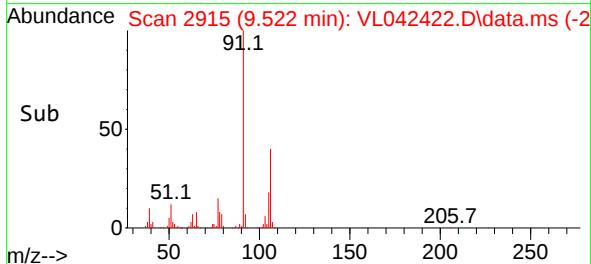
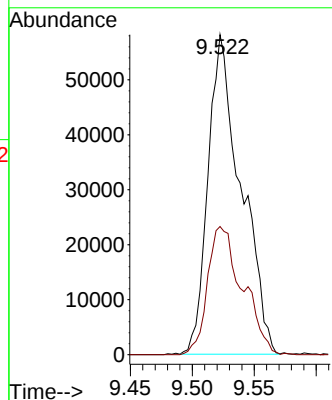
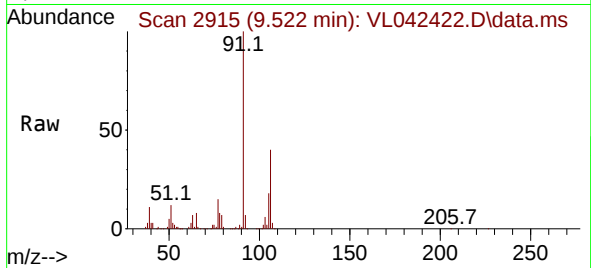
#59
m/p-Xylene
Concen: 1.955 ppbv
RT: 9.522 min Scan# 2915
Delta R.T. -0.029 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Instrument : MSVOA_L
ClientSampleId : IA-B2-5-3242025

Tgt Ion: 91 Resp: 10808
Ion Ratio Lower Upper
91 100
106 42.5 35.4 53.2

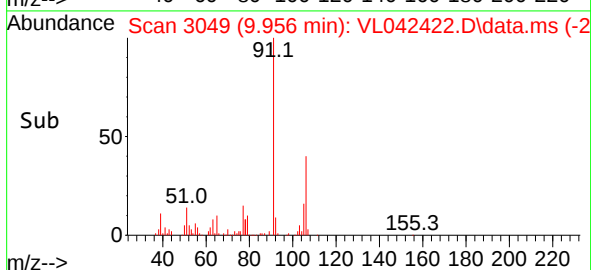
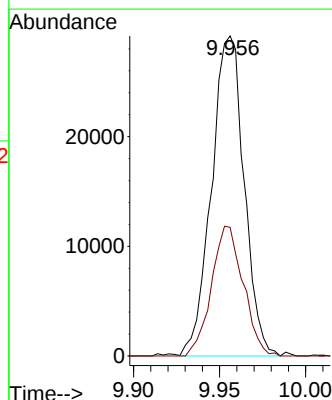
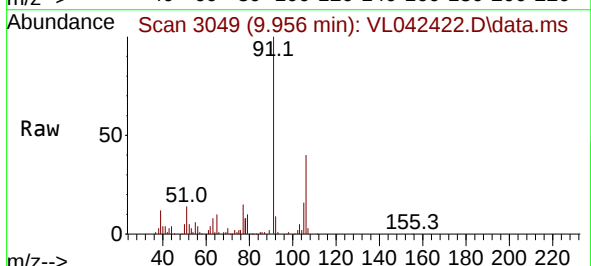
Manual Integrations
APPROVED

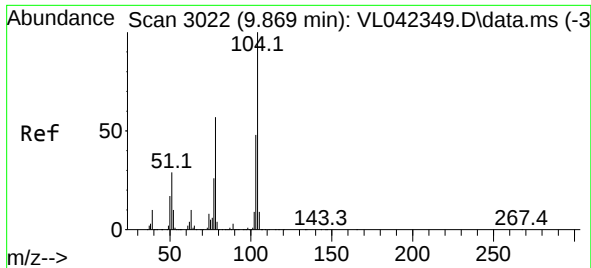
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#60
o-Xylene
Concen: 0.691 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

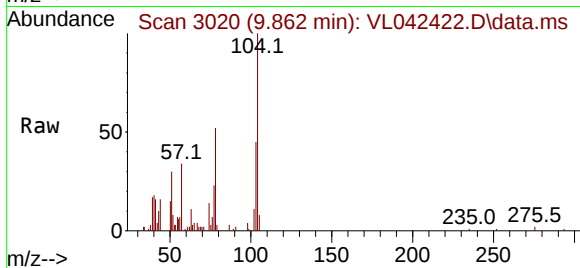
Tgt Ion: 91 Resp: 38480
Ion Ratio Lower Upper
91 100
106 39.4 21.1 63.4





#61
Styrene
Concen: 0.246 ppbv m
RT: 9.862 min Scan# 3022
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

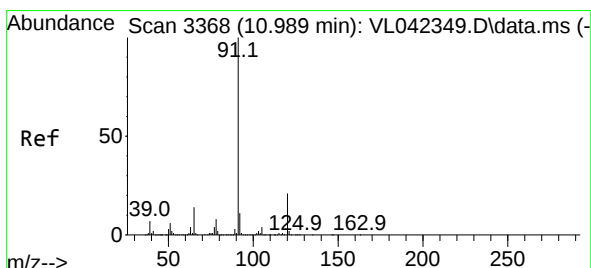
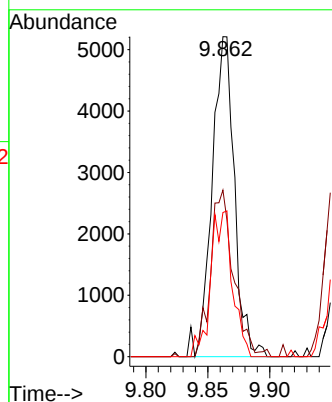
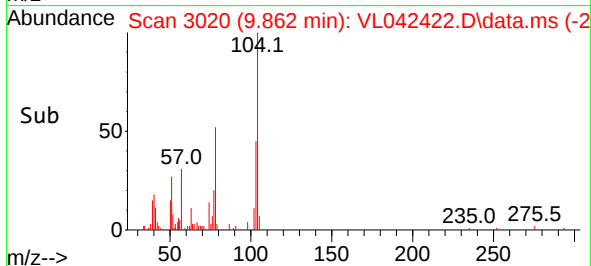
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025



Tgt Ion:104 Resp: 653
Ion Ratio Lower Upper
104 100
78 54.0 44.6 66.8
103 44.5 37.4 56.0

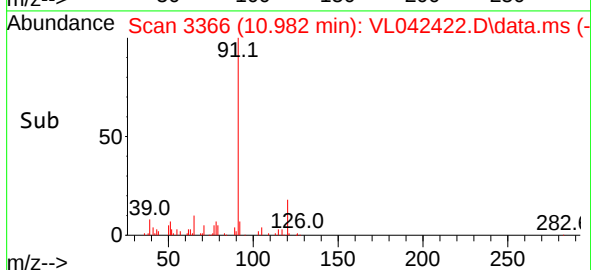
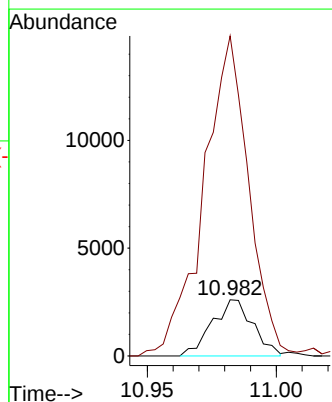
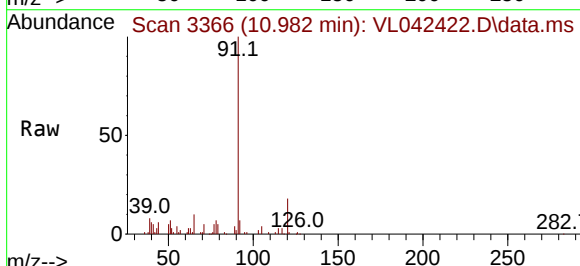
Manual Integrations
APPROVED

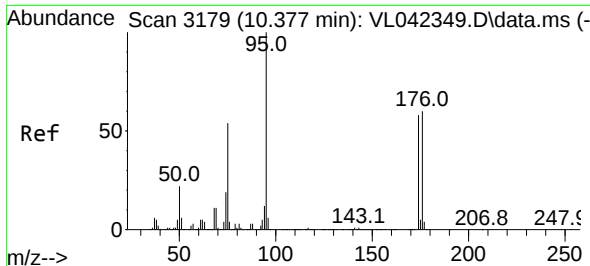
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#64
n-propylbenzene
Concen: 0.139 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

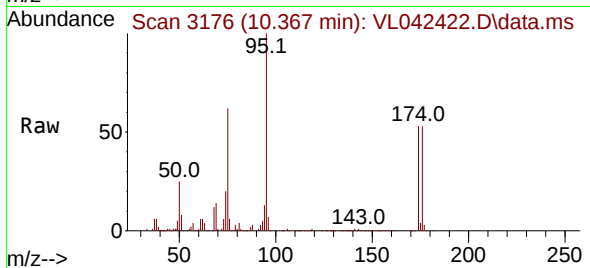
Tgt Ion:120 Resp: 2864
Ion Ratio Lower Upper
120 100
91 636.1 392.4 588.6#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.699 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

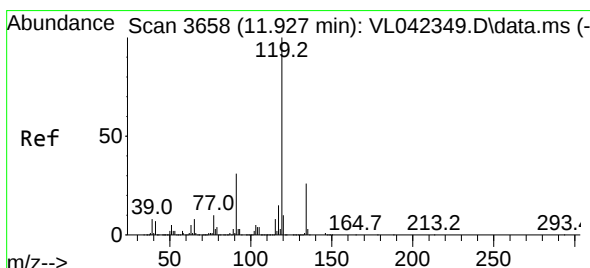
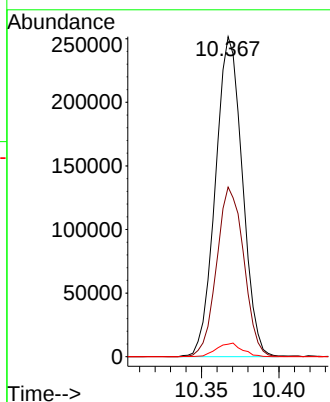
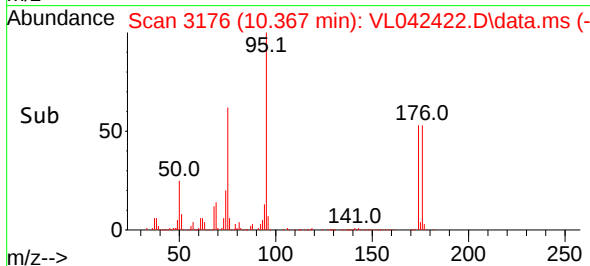
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025



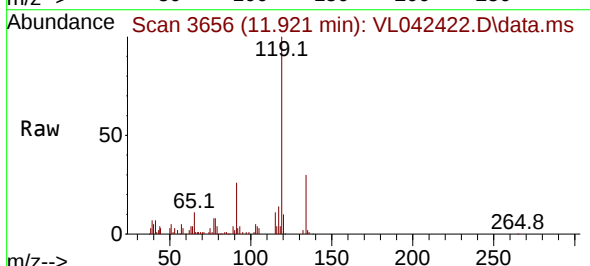
Tgt Ion: 95 Resp: 304530
Ion Ratio Lower Upper
95 100
174 53.5 48.5 72.7
175 4.1 3.7 5.5

Manual Integrations
APPROVED

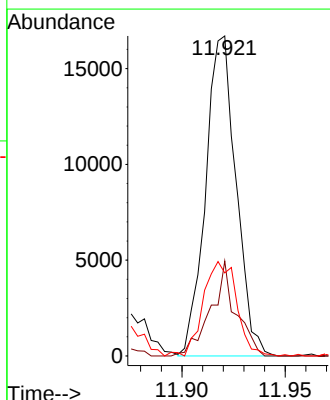
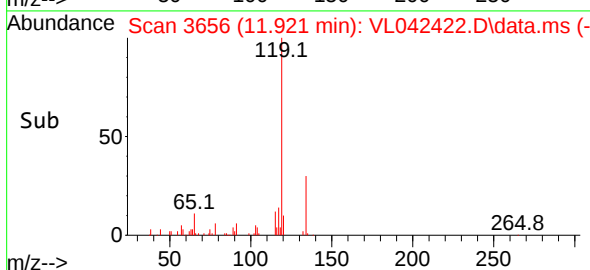
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025

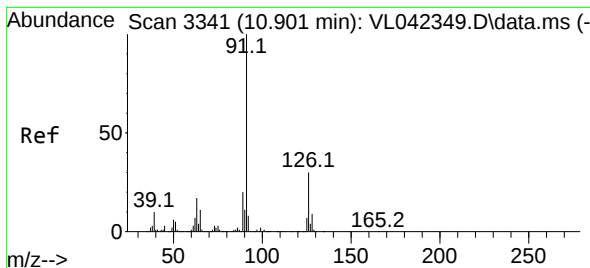


#69
p-Isopropyltoluene
Concen: 0.189 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51



Tgt Ion:119 Resp: 17184
Ion Ratio Lower Upper
119 100
134 24.4 20.0 30.0
91 32.0 24.4 36.6





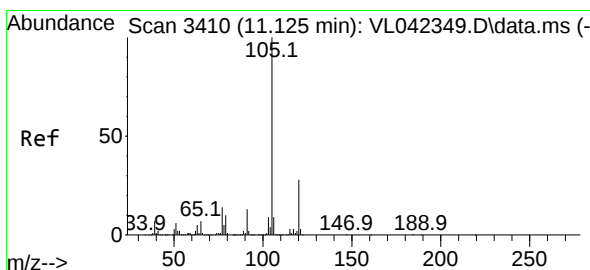
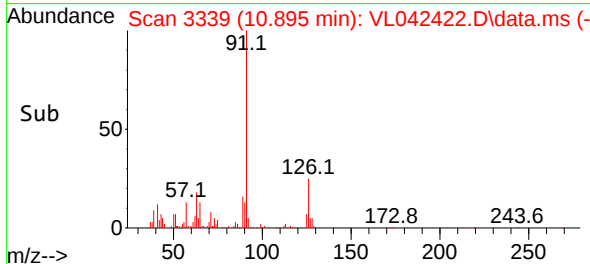
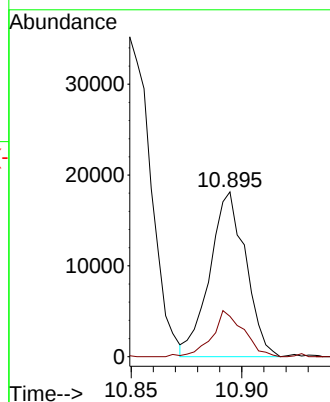
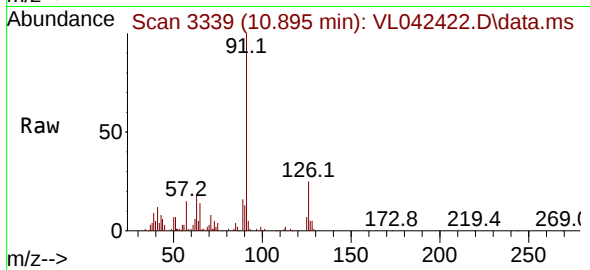
#71
2-Chlorotoluene
Concen: 0.319 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025

Tgt Ion: 91 Resp: 20420
Ion Ratio Lower Upper
91 100
126 25.0 11.4 45.4

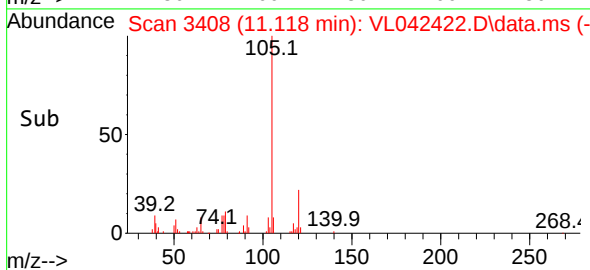
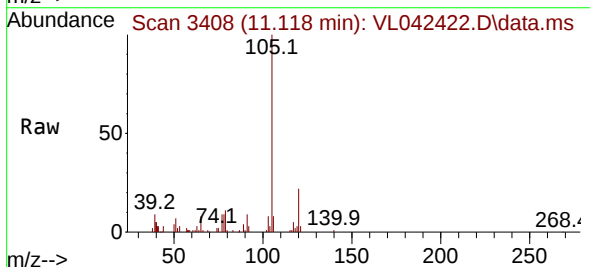
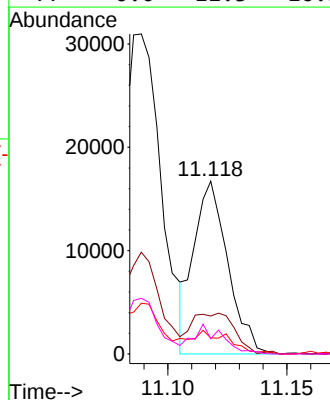
Manual Integrations
APPROVED

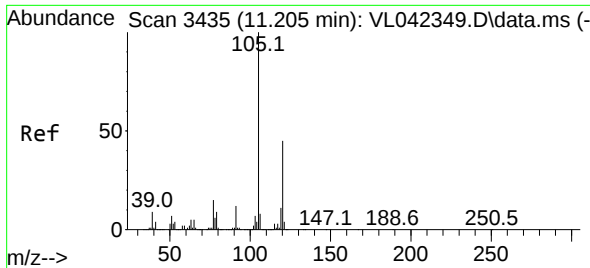
Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#72
4-Ethyltoluene
Concen: 0.244 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

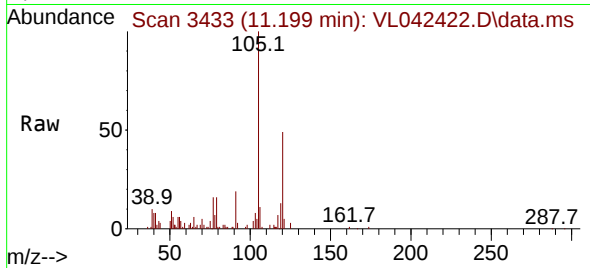
Tgt Ion:105 Resp: 16614
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#





#73
1,3,5-Trimethylbenzene
Concen: 0.269 ppbv
RT: 11.199 min Scan# 3435
Delta R.T. -0.007 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51

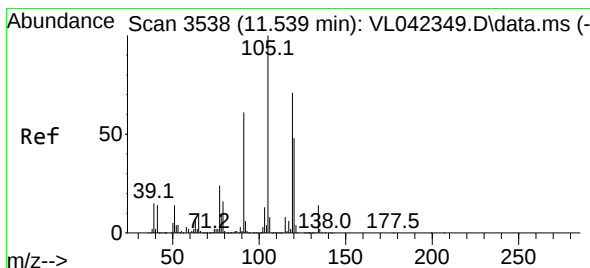
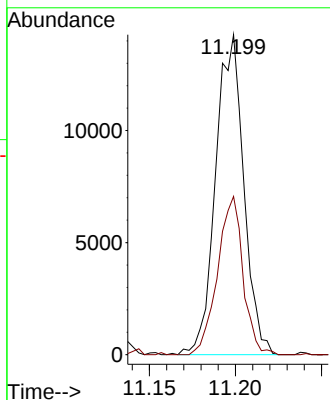
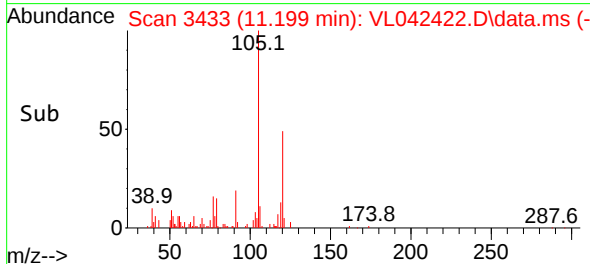
Instrument : MSVOA_L
ClientSampleId : IA-B2-5-3242025



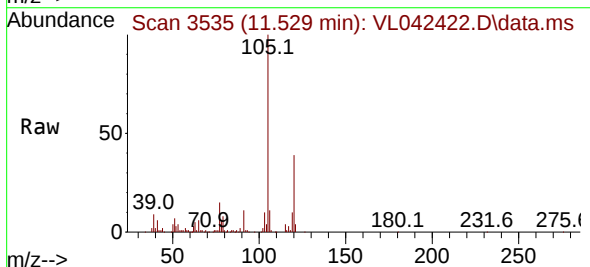
Tgt Ion:105 Resp: 16180
Ion Ratio Lower Upper
105 100
120 49.5 35.6 53.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2025
Supervised By :Mahesh Dadoda 04/30/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.764 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.010 min
Lab File: VL042422.D
Acq: 28 Apr 2025 12:51



Tgt Ion:105 Resp: 53644
Ion Ratio Lower Upper
105 100
120 39.0 38.1 57.1
91 10.4 48.8 73.2#
77 14.2 19.0 28.4#

