

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
 Data File : VL042208.D
 Acq On : 31 Mar 2025 13:36
 Operator : SY/MD
 Sample : Q1649-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025
 Supervised By :Mahesh Dadoda 04/01/2025

Quant Time: Apr 01 01:39:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.806	49	185856	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.988	114	529863	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.907	117	478116	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.400	95	376053	9.578	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	4751	0.173	ppbv	91
3) Chlorodifluoromethane	1.483	51	4223m	0.151	ppbv	
9) Propene	1.492	41	23121	1.799	ppbv	89
10) Heptane	5.024	43	14961m	0.438	ppbv	
13) Ethanol	1.732	45	10254	8.442	ppbv #	27
15) Acetone	1.852	43	57758	2.222	ppbv #	75
20) Methylene Chloride	2.075	84	5788	0.598	ppbv	91
26) Hexane	2.845	57	202226	7.761	ppbv #	29
30) Cyclohexane	3.887	84	4298m	0.190	ppbv	
34) 2-Butanone	2.580	43	6987	0.182	ppbv	100
36) Benzene	3.684	78	10828	0.206	ppbv #	89
38) Trichloroethene	4.583	130	1895m	0.086	ppbv	
44) 2,2,4-Trimethylpentane	4.680	57	13836m	0.156	ppbv	
52) Tetrachloroethene	8.257	164	33600	1.613	ppbv #	86
53) Toluene	6.972	91	41185	0.661	ppbv	99
58) Ethyl Benzene	9.383	91	12675	0.149	ppbv	99
59) m/p-Xylene	9.558	91	47626m	0.702	ppbv	
60) o-Xylene	9.989	91	19197	0.282	ppbv	99
72) 4-Ethyltoluene	11.144	105	11557	0.137	ppbv #	83
73) 1,3,5-Trimethylbenzene	11.228	105	9755	0.132	ppbv	93
74) 1,2,4-Trimethylbenzene	11.555	105	41806	0.491	ppbv #	64

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

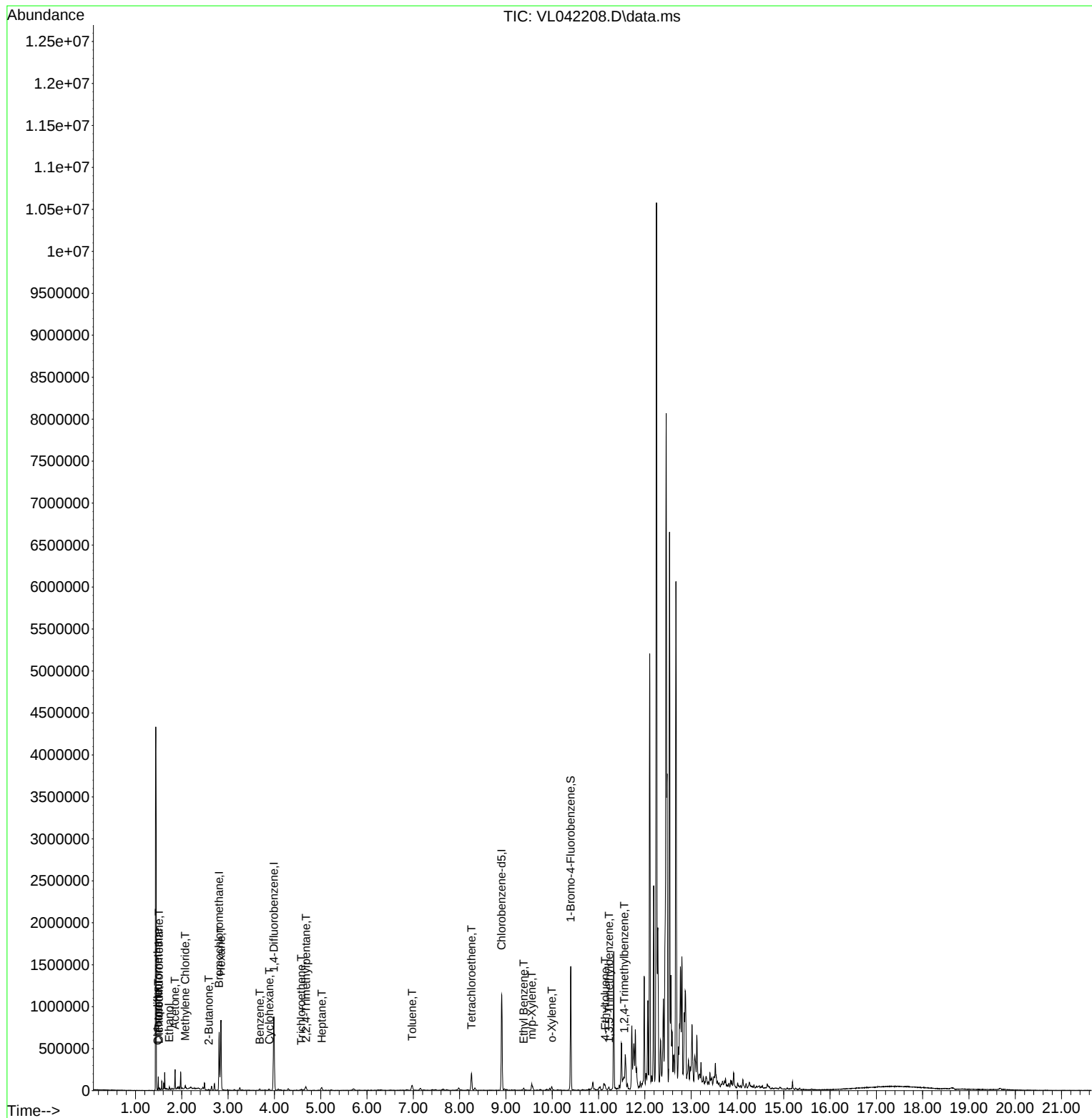
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
Data File : VL042208.D
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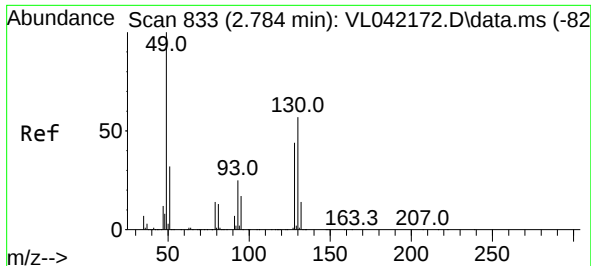
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Apr 01 01:39:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
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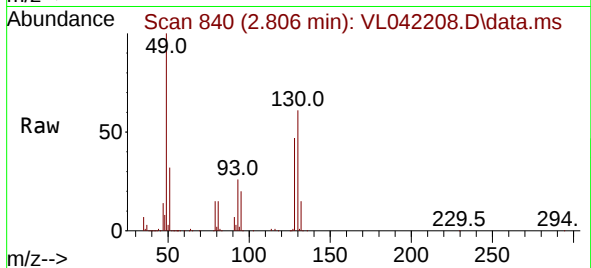
Reviewed By : Semsettin Yesilyurt 04/01/2025
Supervised By : Mahesh Dadoda 04/01/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.806 min Scan# 84
Delta R.T. 0.022 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

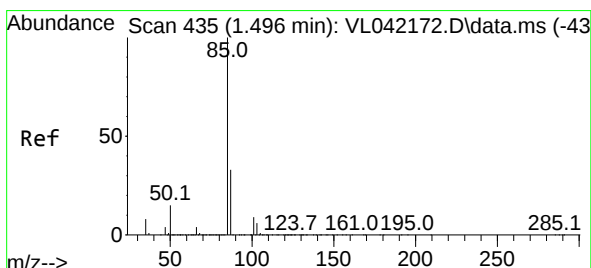
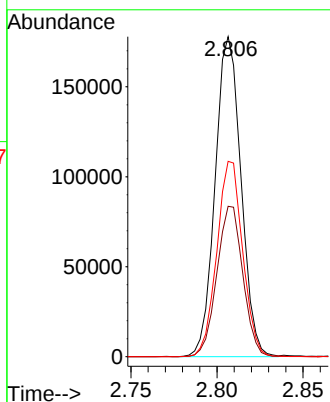
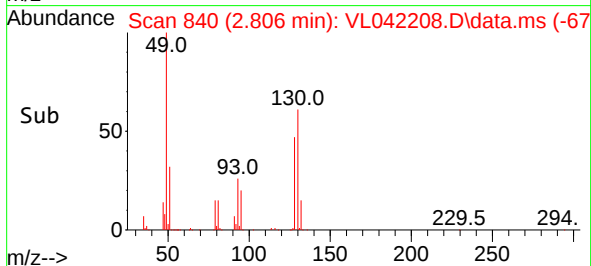
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 185850
Ion Ratio Lower Upper
49 100
128 47.3 22.9 68.5
130 61.0 28.8 86.4

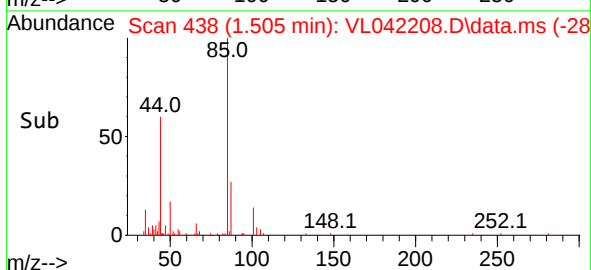
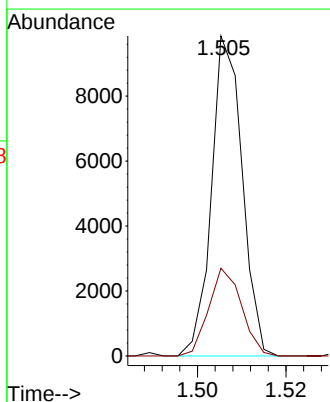
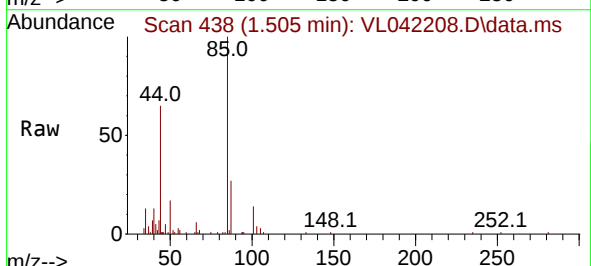
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Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#2
Dichlorodifluoromethane
Concen: 0.173 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

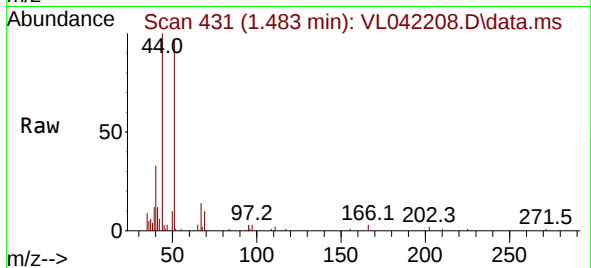
Tgt Ion: 85 Resp: 4751
Ion Ratio Lower Upper
85 100
87 27.4 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.151 ppbv m
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

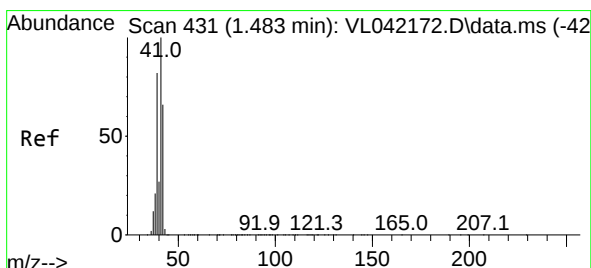
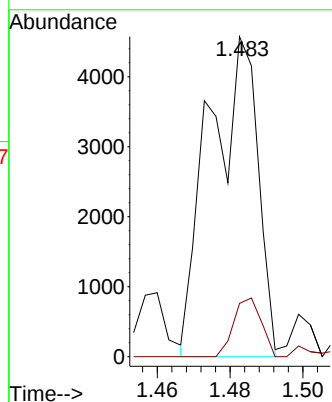
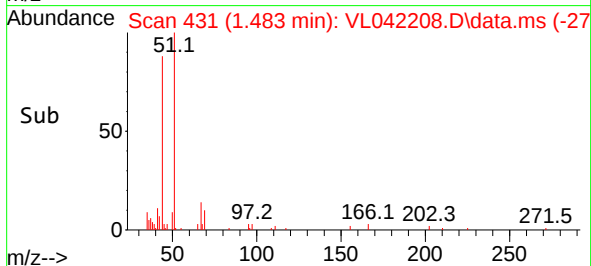
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 51 Resp: 422
Ion Ratio Lower Upper
51 100
67 11.7 15.0 22.6

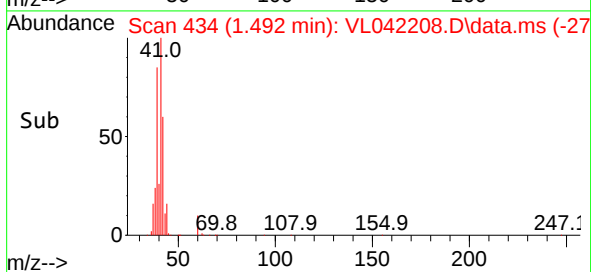
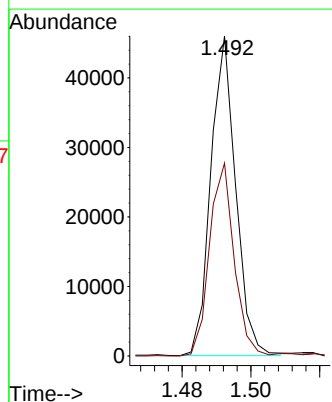
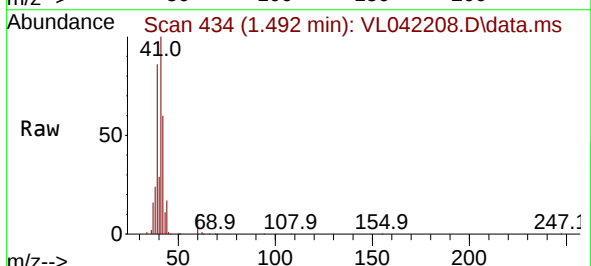
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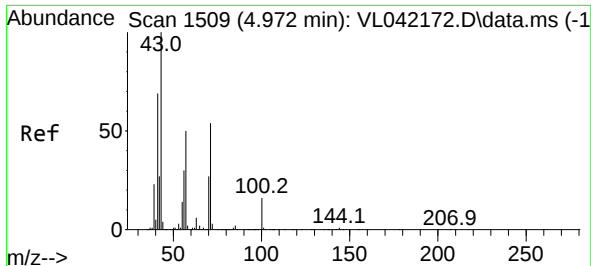
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#9
Propene
Concen: 1.799 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

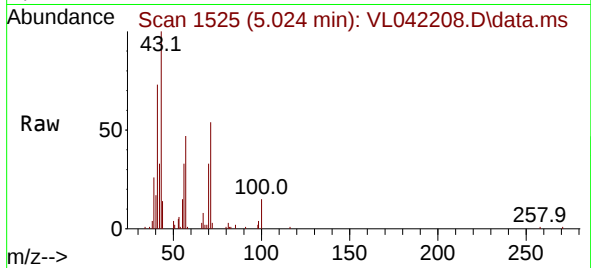
Tgt Ion: 41 Resp: 23121
Ion Ratio Lower Upper
41 100
42 60.5 55.4 83.2





#10
Heptane
Concen: 0.438 ppbv m
RT: 5.024 min Scan# 11
Delta R.T. 0.052 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

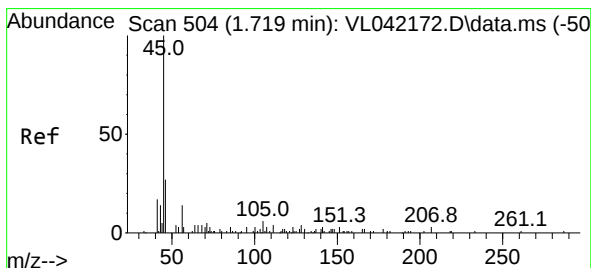
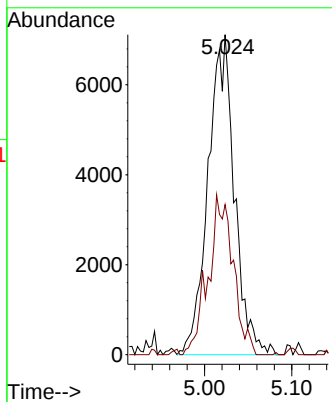
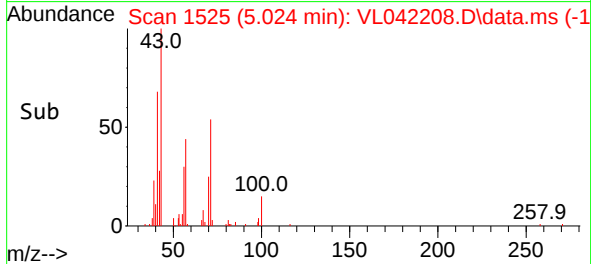
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 1496
Ion Ratio Lower Upper
43 100
57 47.3 39.4 59.2

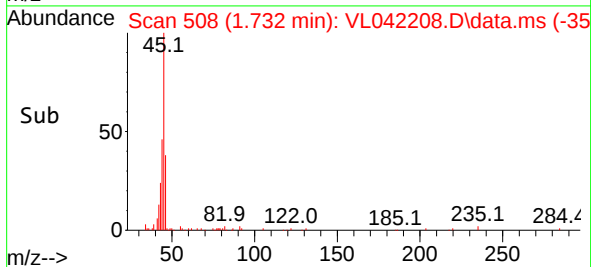
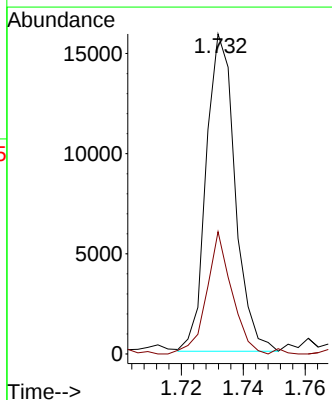
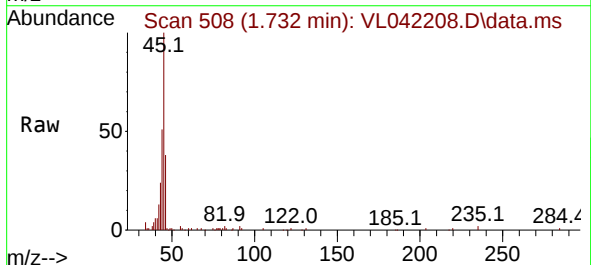
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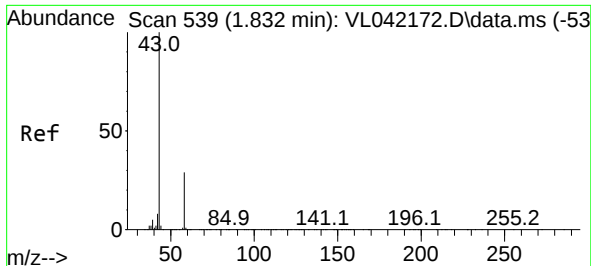
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#13
Ethanol
Concen: 8.442 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.013 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion: 45 Resp: 10254
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#





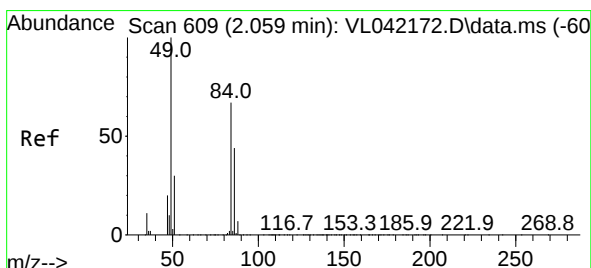
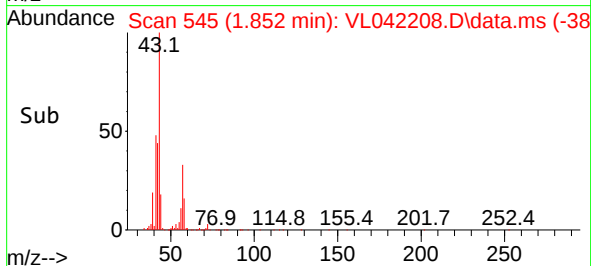
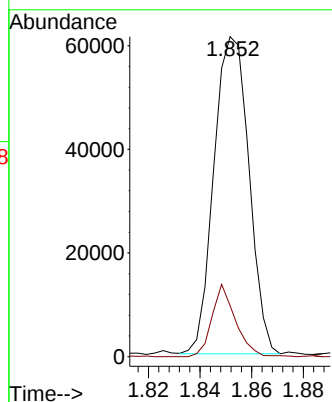
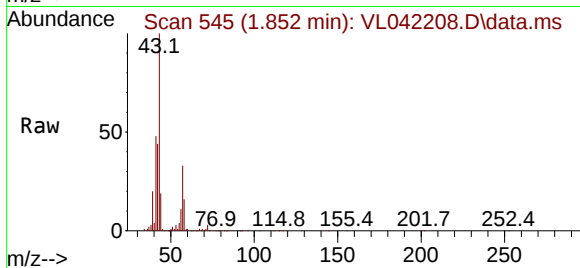
#15
Acetone
Concen: 2.222 ppbv
RT: 1.852 min Scan# 54
Delta R.T. 0.019 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 5775
Ion Ratio Lower Upper
43 100
58 15.7 23.2 34.8

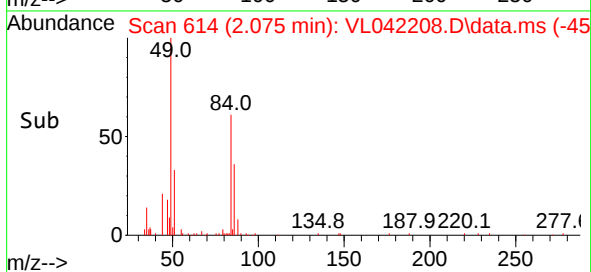
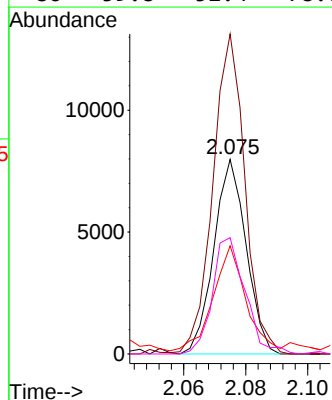
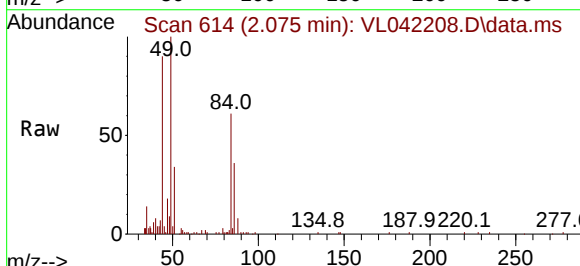
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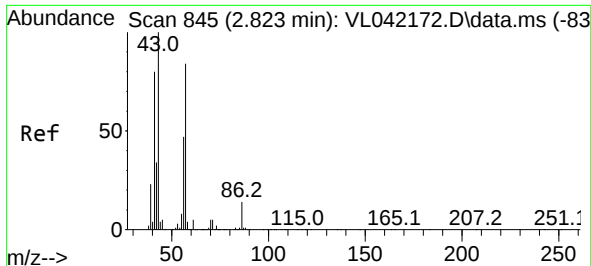
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#20
Methylene Chloride
Concen: 0.598 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

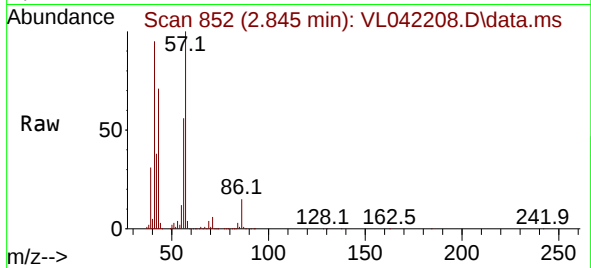
Tgt Ion: 84 Resp: 5788
Ion Ratio Lower Upper
84 100
49 163.3 120.2 180.4
51 52.8 37.4 56.0
86 59.8 52.4 78.6





#26
Hexane
Concen: 7.761 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.022 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

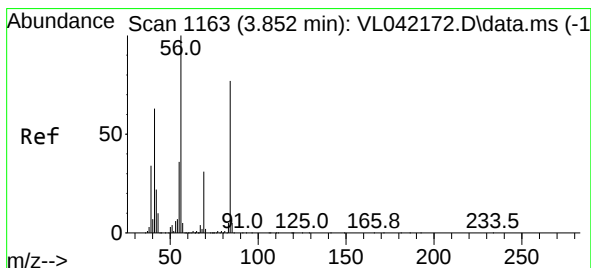
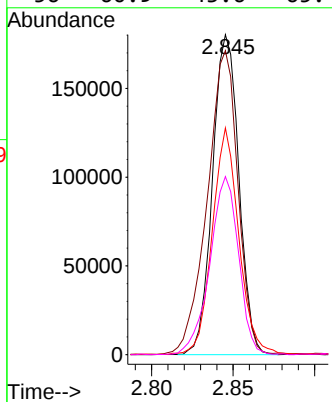
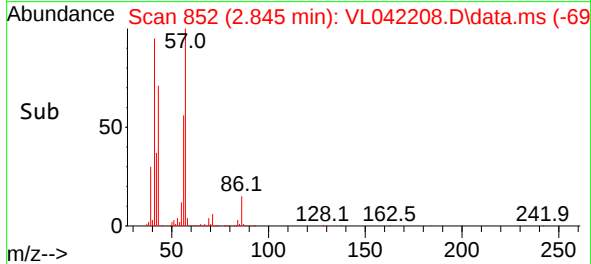
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 202220
Ion Ratio Lower Upper
57 100
41 110.9 76.6 114.8
43 72.4 207.8 311.8
56 60.9 43.6 65.4

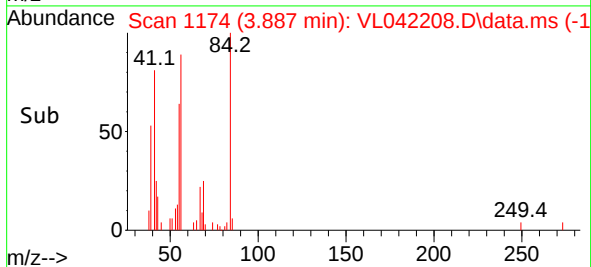
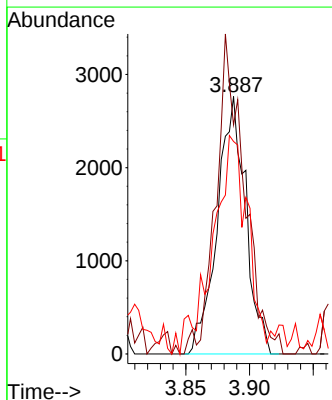
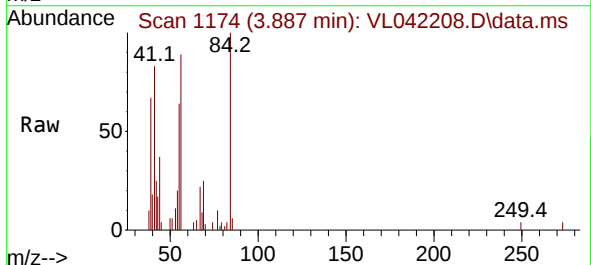
Manual Integrations
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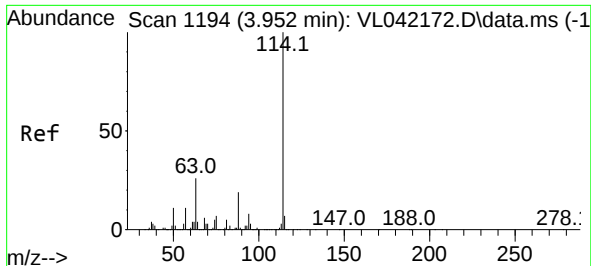
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#30
Cyclohexane
Concen: 0.190 ppbv m
RT: 3.887 min Scan# 1174
Delta R.T. 0.035 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion: 84 Resp: 4298
Ion Ratio Lower Upper
84 100
56 122.5 102.8 154.2
41 110.4 66.5 99.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.988 min Scan# 1194

Delta R.T. 0.035 min

Lab File: VL042208.D

Acq: 31 Mar 2025 13:36

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:114 Resp: 52986

Ion Ratio Lower Upper

114 100

63 25.4 20.7 31.1

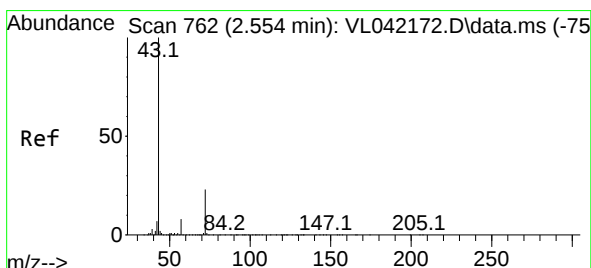
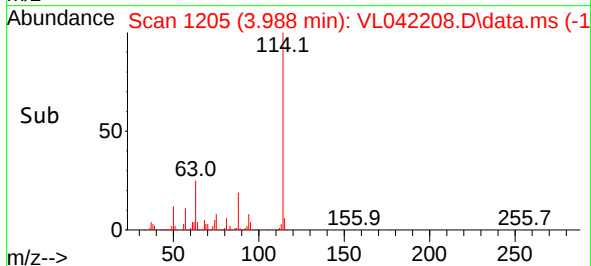
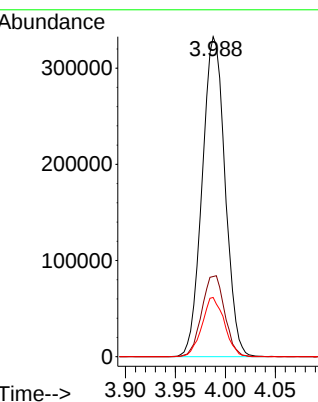
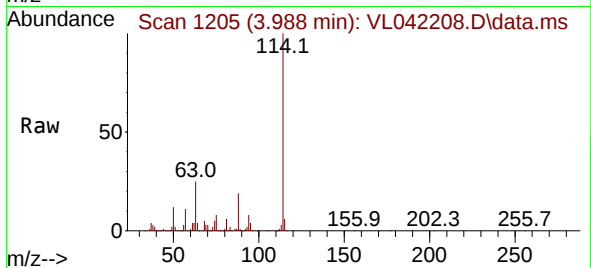
88 18.1 15.0 22.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/01/2025

Supervised By :Mahesh Dadoda 04/01/2025



#34

2-Butanone

Concen: 0.182 ppbv

RT: 2.580 min Scan# 770

Delta R.T. 0.026 min

Lab File: VL042208.D

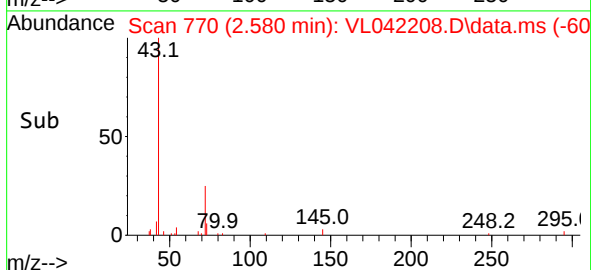
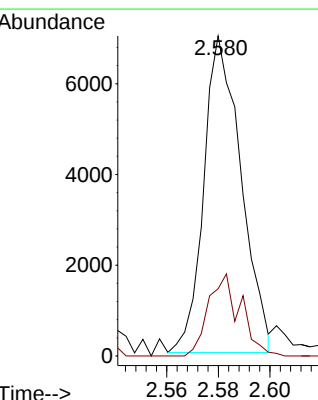
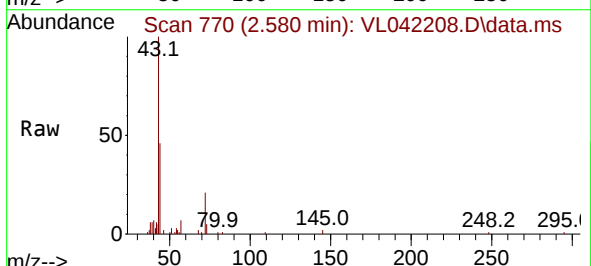
Acq: 31 Mar 2025 13:36

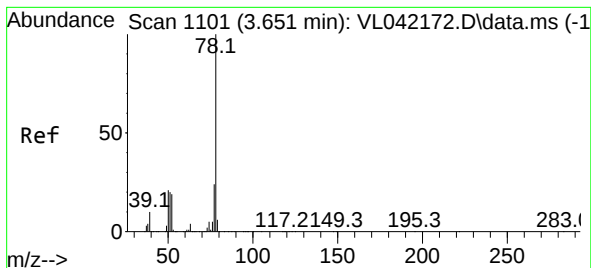
Tgt Ion: 43 Resp: 6987

Ion Ratio Lower Upper

43 100

72 22.5 18.2 27.2





#36

Benzene

Concen: 0.206 ppbv

RT: 3.684 min Scan# 1111

Delta R.T. 0.032 min

Lab File: VL042208.D

Acq: 31 Mar 2025 13:36

Instrument :

MSVOA_L

ClientSampleId :

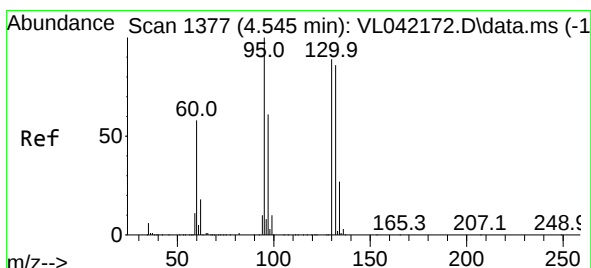
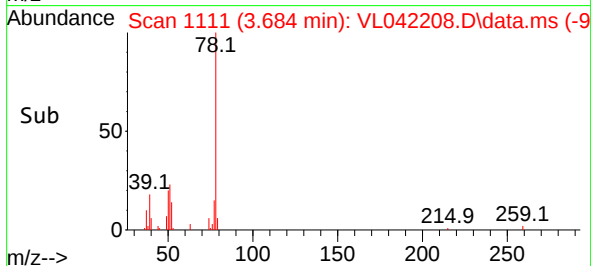
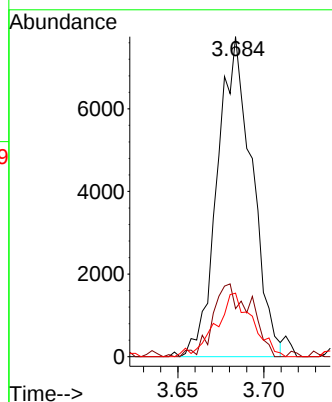
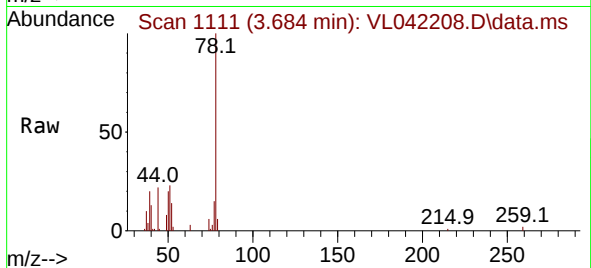
SV2

Tgt Ion: 78	Resp: 10828
Ion Ratio	Lower Upper
78 100	
77 15.0	19.1 28.7
50 18.9	16.6 24.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#38

Trichloroethene

Concen: 0.086 ppbv m

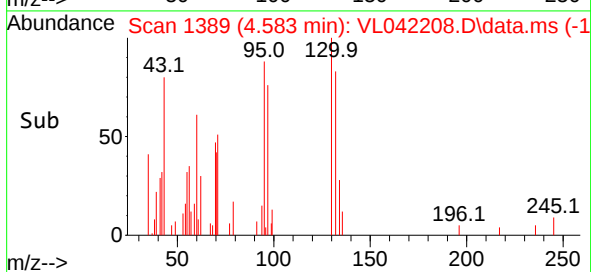
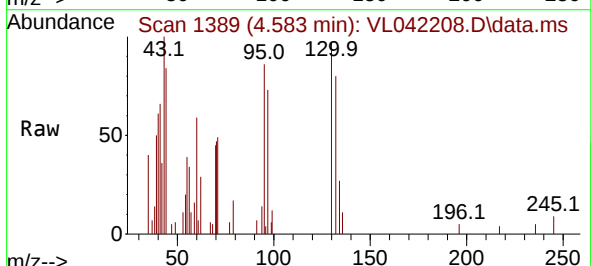
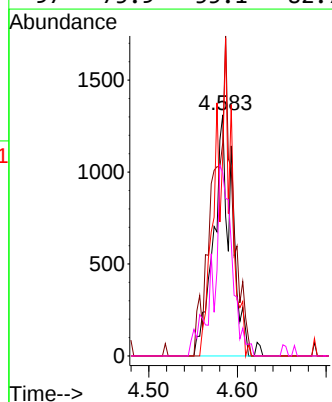
RT: 4.583 min Scan# 1389

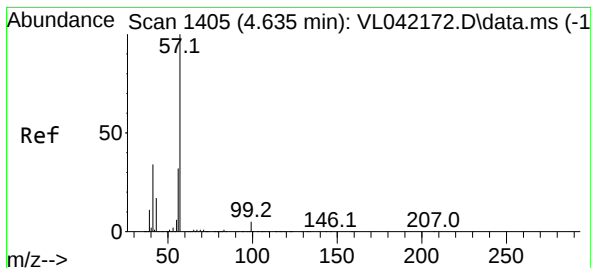
Delta R.T. 0.039 min

Lab File: VL042208.D

Acq: 31 Mar 2025 13:36

Tgt Ion:130	Resp: 1895
Ion Ratio	Lower Upper
130 100	
95 88.5	89.8 134.8#
132 82.9	77.4 116.2
97 75.9	55.1 82.7





#44

2,2,4-Trimethylpentane

Concen: 0.156 ppbv m

RT: 4.680 min Scan# 1405

Delta R.T. 0.045 min

Lab File: VL042208.D

Acq: 31 Mar 2025 13:36

Instrument :

MSVOA_L

ClientSampleId :

SV2

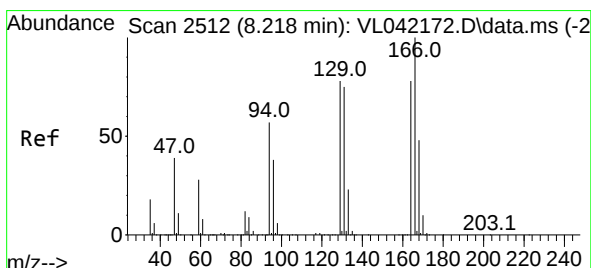
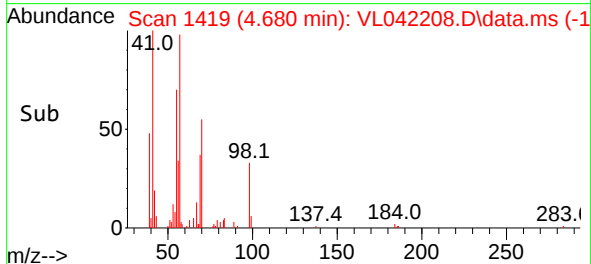
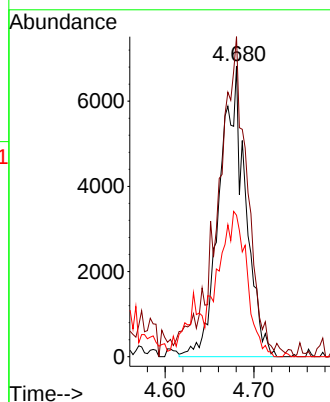
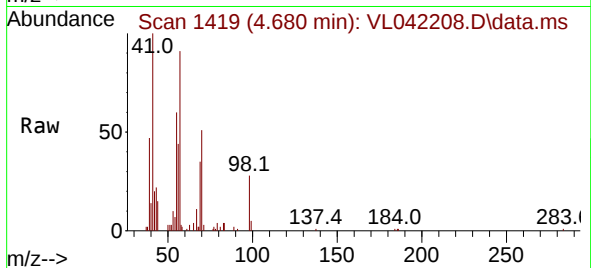
Tgt Ion: 57 Resp: 13830

Ion	Ratio	Lower	Upper
57	100		
41	126.8	26.8	40.2
56	68.7	25.6	38.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#52

Tetrachloroethene

Concen: 1.613 ppbv

RT: 8.257 min Scan# 2524

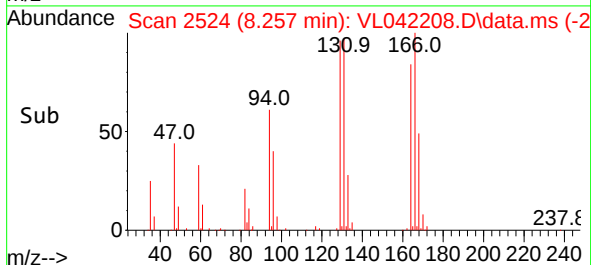
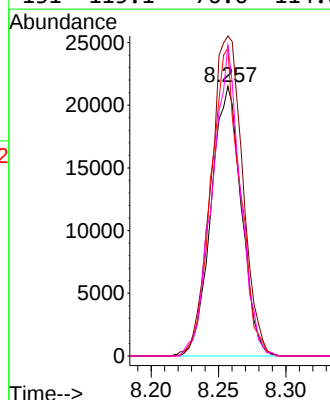
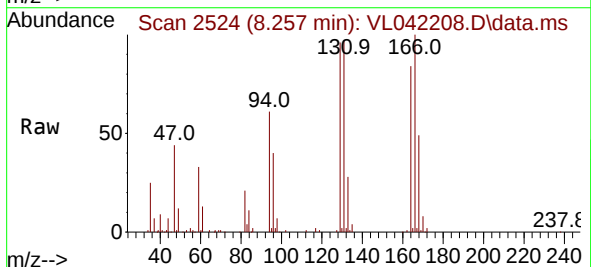
Delta R.T. 0.039 min

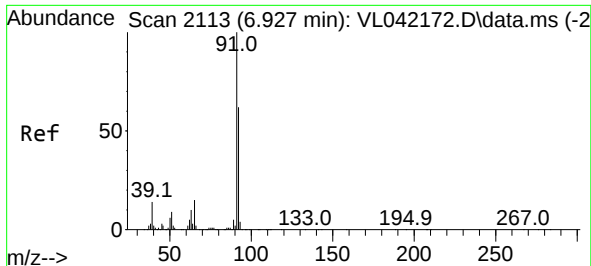
Lab File: VL042208.D

Acq: 31 Mar 2025 13:36

Tgt Ion:164 Resp: 33600

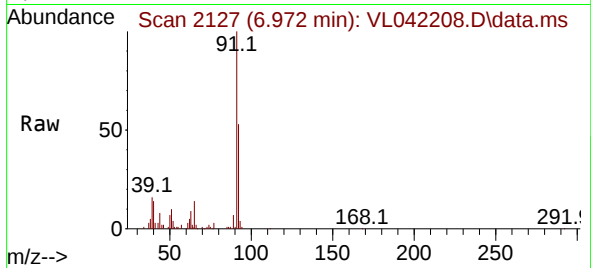
Ion	Ratio	Lower	Upper
164	100		
166	118.7	102.5	153.7
129	114.2	79.8	119.8
131	115.1	76.6	114.8





#53
Toluene
Concen: 0.661 ppbv
RT: 6.972 min Scan# 2113
Delta R.T. 0.045 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

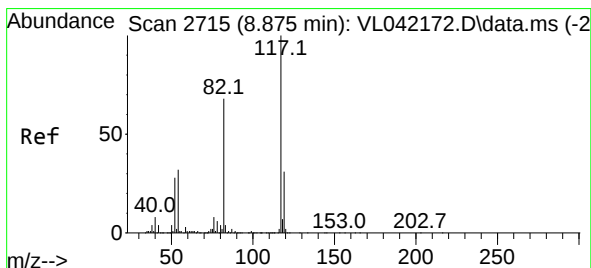
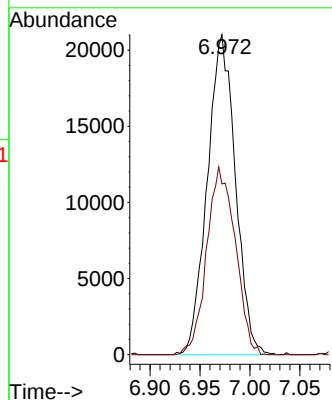
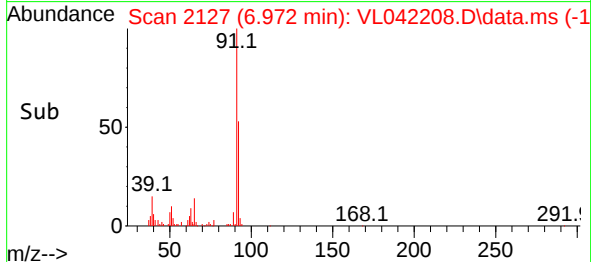
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 91 Resp: 4118
Ion Ratio Lower Upper
91 100
92 59.6 48.4 72.6

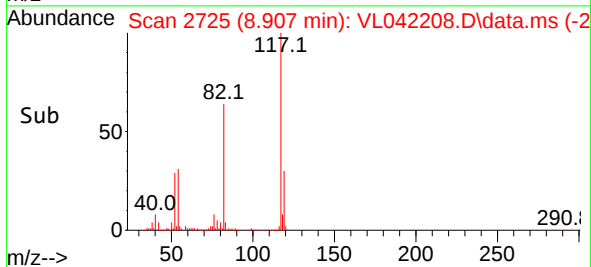
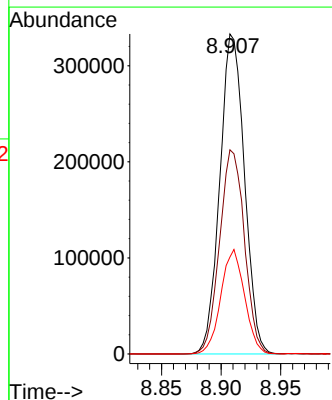
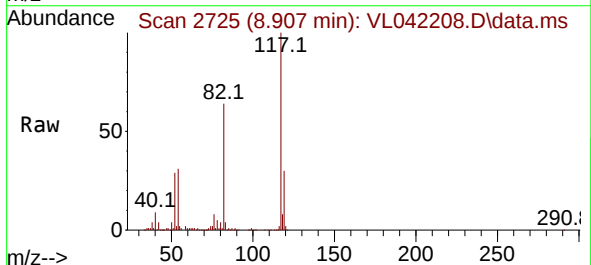
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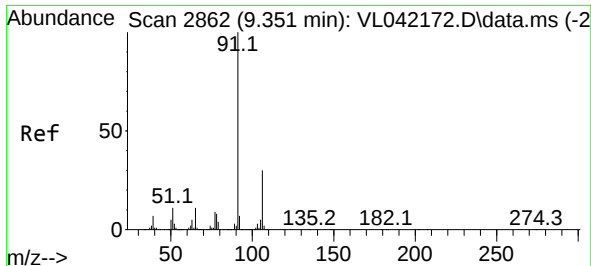
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.907 min Scan# 2725
Delta R.T. 0.032 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion:117 Resp: 478116
Ion Ratio Lower Upper
117 100
82 64.4 55.8 83.6
119 31.6 25.5 38.3





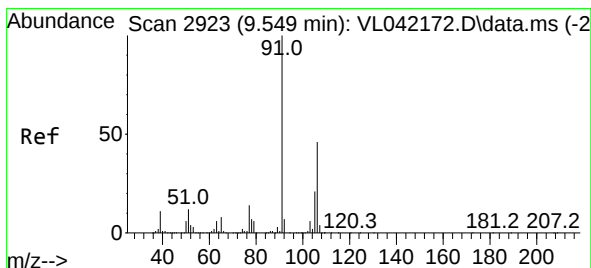
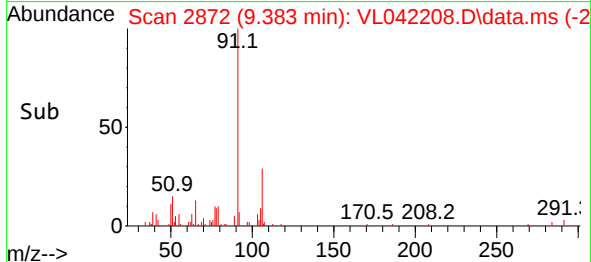
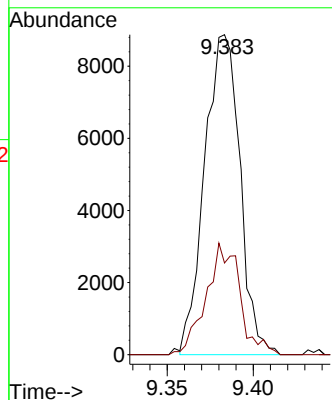
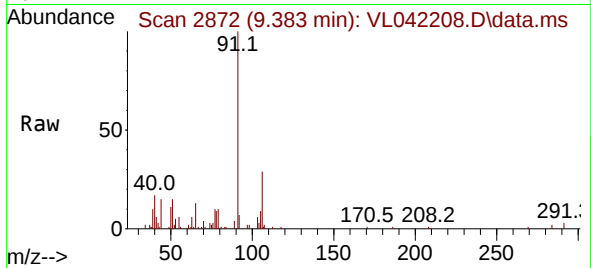
#58
Ethyl Benzene
Concen: 0.149 ppbv
RT: 9.383 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 1267
Ion Ratio Lower Upper
91 100
106 29.5 24.2 36.2

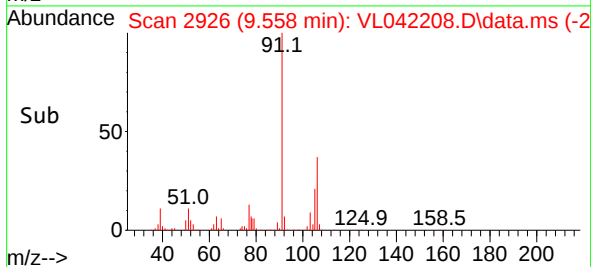
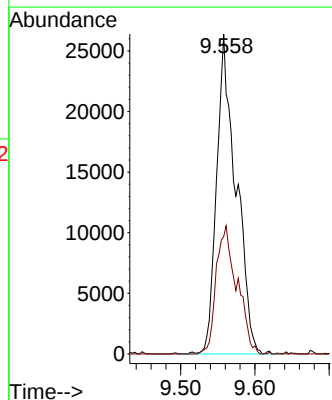
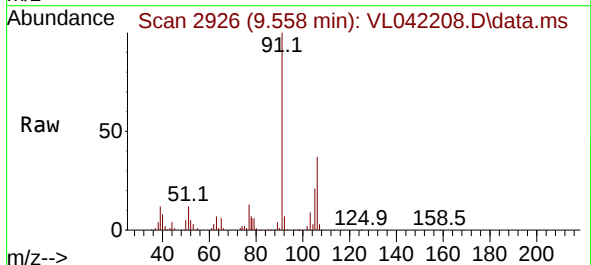
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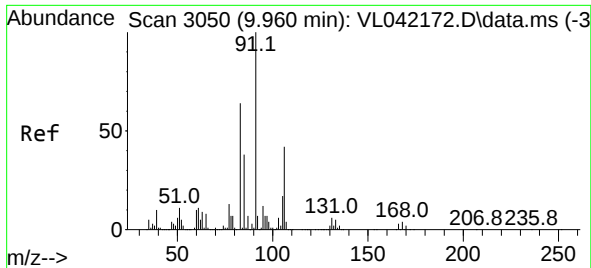
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#59
m/p-Xylene
Concen: 0.702 ppbv m
RT: 9.558 min Scan# 2926
Delta R.T. 0.010 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion: 91 Resp: 47626
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#





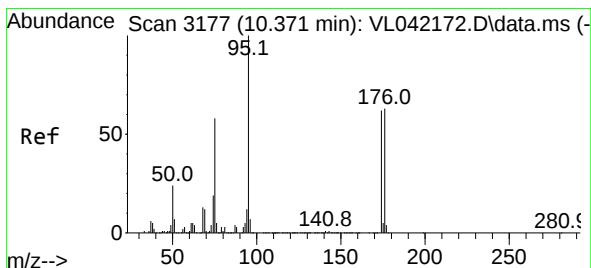
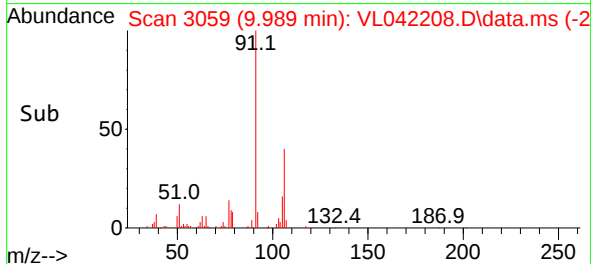
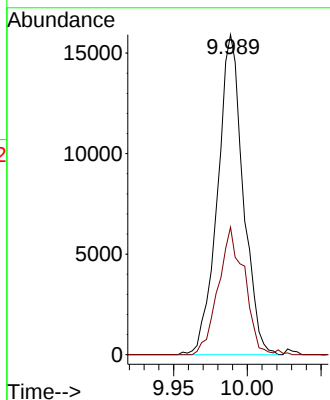
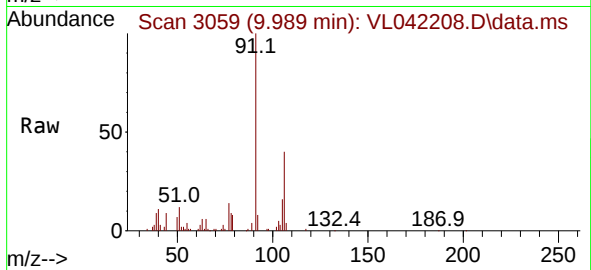
#60
o-Xylene
Concen: 0.282 ppbv
RT: 9.989 min Scan# 3050
Delta R.T. 0.029 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 1919
Ion Ratio Lower Upper
91 100
106 41.0 20.8 62.5

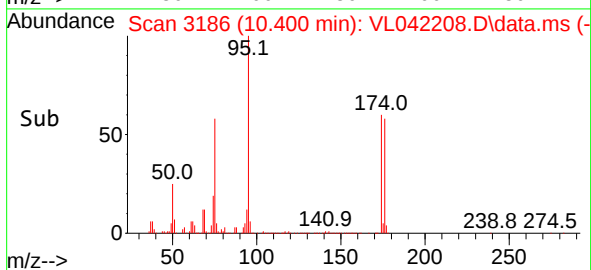
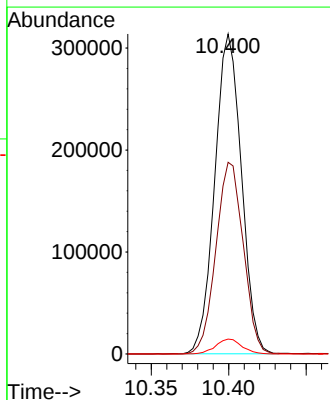
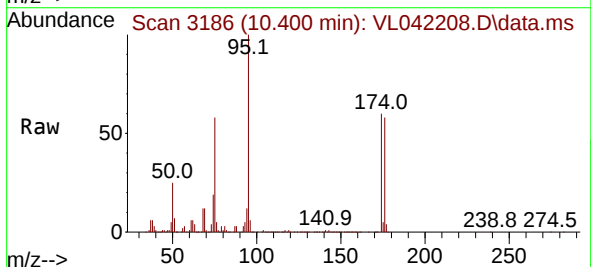
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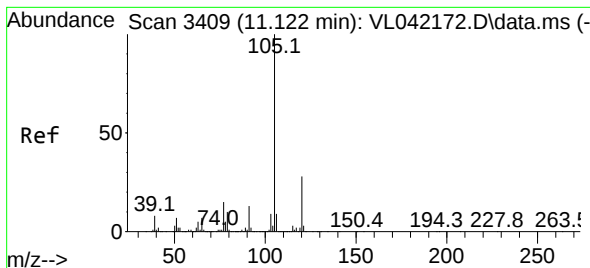
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.578 ppbv
RT: 10.400 min Scan# 3186
Delta R.T. 0.029 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Tgt Ion: 95 Resp: 376053
Ion Ratio Lower Upper
95 100
174 61.4 50.6 76.0
175 4.6 3.8 5.6





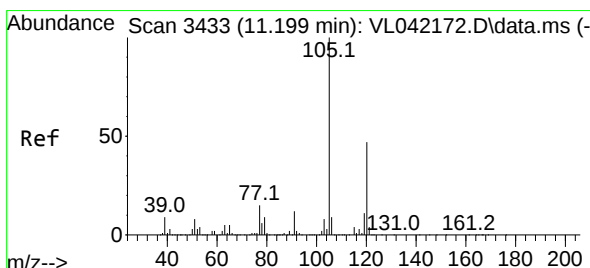
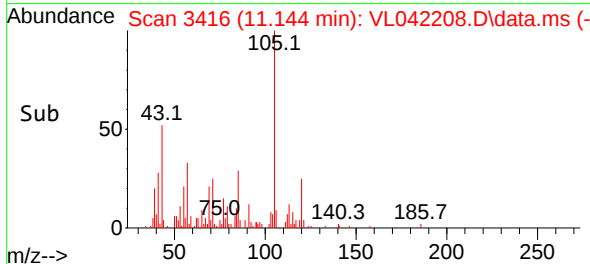
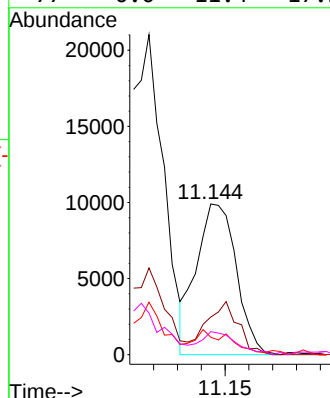
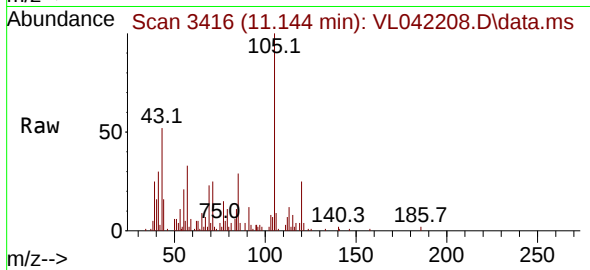
#72
4-Ethyltoluene
Concen: 0.137 ppbv
RT: 11.144 min Scan# 3416
Delta R.T. 0.022 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:105 Resp: 1155
Ion Ratio Lower Upper
105 100
120 28.2 23.4 35.0
91 0.0 10.3 15.5
77 0.0 11.4 17.2#

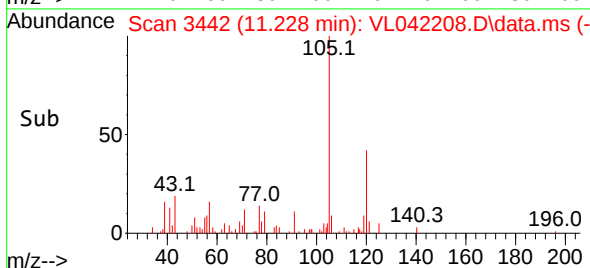
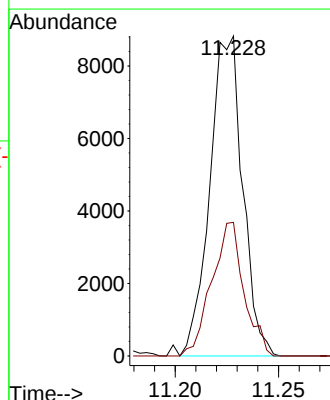
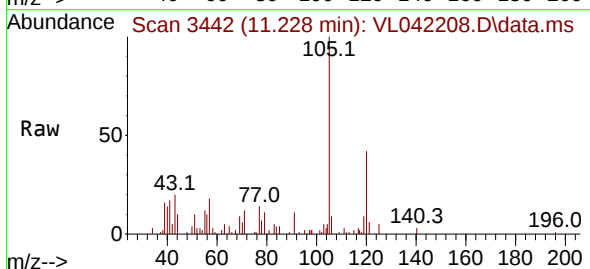
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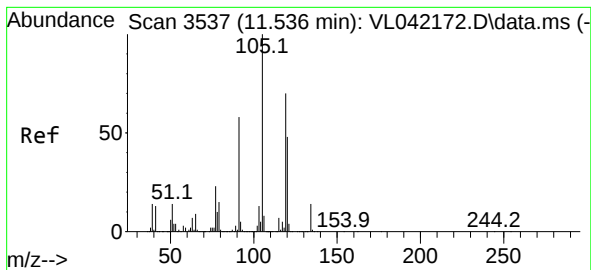
Reviewed By :Semsettin Yesilyurt 04/01/2025
Supervised By :Mahesh Dadoda 04/01/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.132 ppbv
RT: 11.228 min Scan# 3442
Delta R.T. 0.029 min
Lab File: VL042208.D
Acq: 31 Mar 2025 13:36

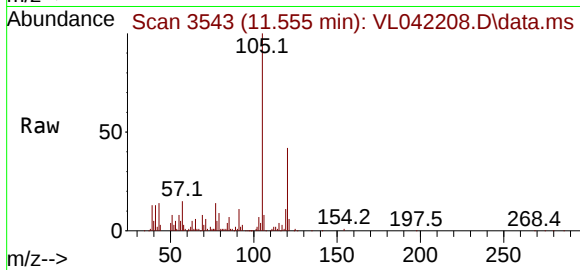
Tgt Ion:105 Resp: 9755
Ion Ratio Lower Upper
105 100
120 41.8 37.4 56.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.491 ppbv
 RT: 11.555 min Scan# 3543
 Delta R.T. 0.019 min
 Lab File: VL042208.D
 Acq: 31 Mar 2025 13:36

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion:	105	Resp:	41800
Ion	Ratio	Lower	Upper
105	100		
120	41.7	38.6	58.0
91	10.3	46.2	69.2
77	13.5	18.6	27.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/01/2025
 Supervised By :Mahesh Dadoda 04/01/2025

