

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042275.D
 Acq On : 08 Apr 2025 22:42
 Operator : SY/MD
 Sample : Q1728-12 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-3-04012025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 02:01:29 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	2.794	49	160295	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	399383	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	355820	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	276732	9.470	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	5426	0.229	ppbv #	77
3) Chlorodifluoromethane	1.479	51	4252m	0.176	ppbv	
4) Chloromethane	1.534	50	1118	0.116	ppbv	100
9) Propene	1.486	41	2314	0.209	ppbv	88
11) Trichlorofluoromethane	1.884	101	2674	0.116	ppbv	90
13) Ethanol	1.725	45	12651	12.076	ppbv	89
15) Acetone	1.839	43	228835	10.208	ppbv	96
17) tert-Butyl alcohol	2.046	59	6274	0.225	ppbv	95
19) Isopropyl Alcohol	1.890	45	90023	7.117	ppbv #	67
20) Methylene Chloride	2.065	84	9525	1.141	ppbv #	91
26) Hexane	2.836	57	7214	0.321	ppbv #	33
29) Chloroform	2.855	83	101229	3.078	ppbv	95
34) 2-Butanone	2.570	43	7264	0.251	ppbv	95
35) Carbon Tetrachloride	3.777	117	2231m	0.072	ppbv	
36) Benzene	3.667	78	5508m	0.139	ppbv	
38) Trichloroethene	4.554	130	793m	0.048	ppbv	
52) Tetrachloroethene	8.231	164	3738m	0.238	ppbv	
53) Toluene	6.953	91	22387m	0.477	ppbv	
58) Ethyl Benzene	9.364	91	6292	0.100	ppbv	92
59) m/p-Xylene	9.539	91	17779m	0.352	ppbv	
60) o-Xylene	9.972	91	7001	0.138	ppbv	94
74) 1,2,4-Trimethylbenzene	11.542	105	7204	0.114	ppbv #	67

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

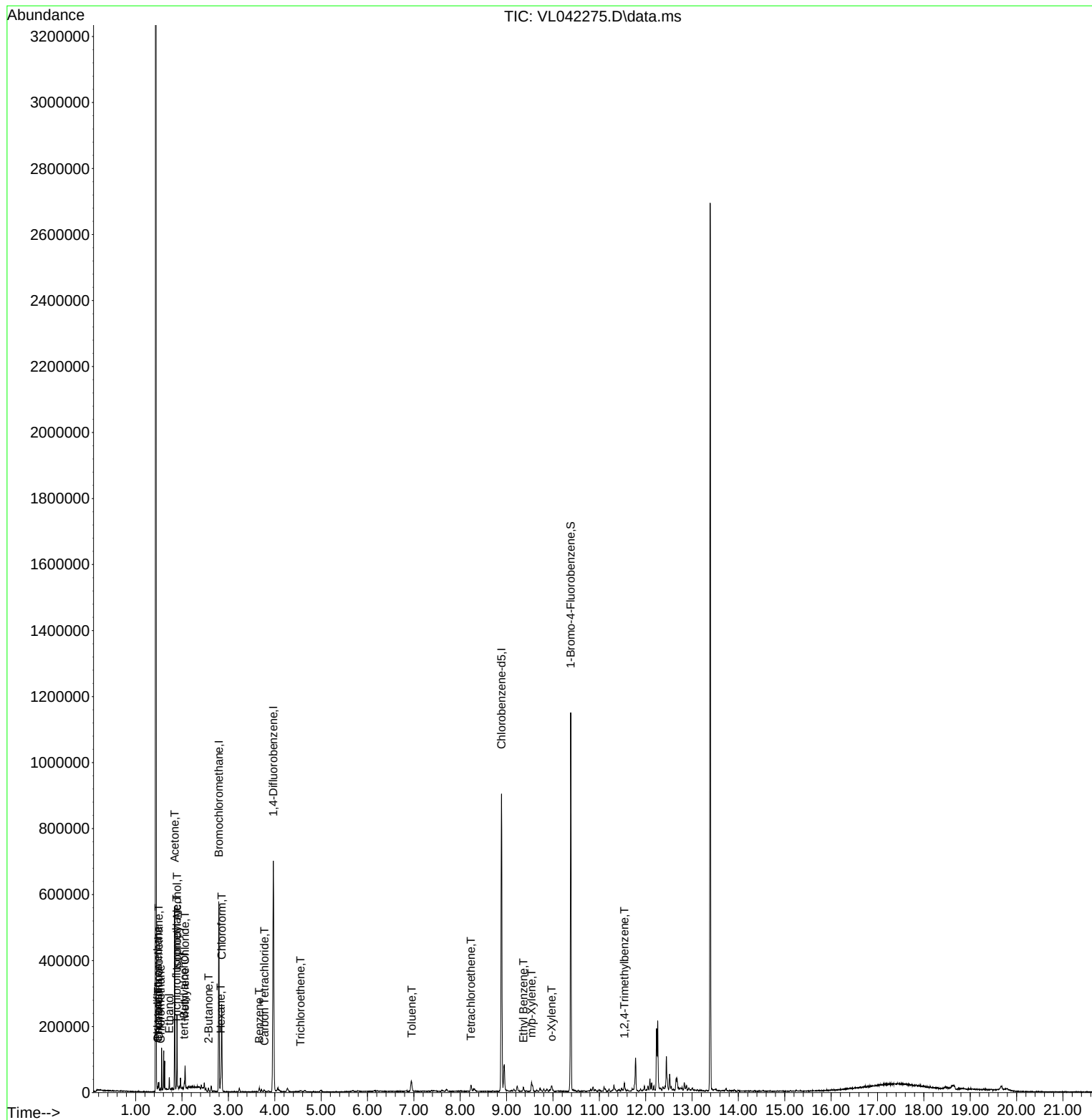
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
Data File : VL042275.D
Acq On : 08 Apr 2025 22:42
Operator : SY/MD
Sample : Q1728-12 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

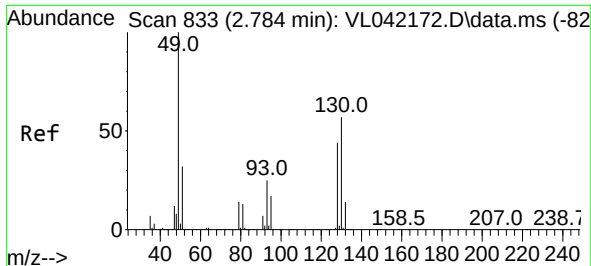
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025

Quant Time: Apr 09 02:01:29 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
APPROVED

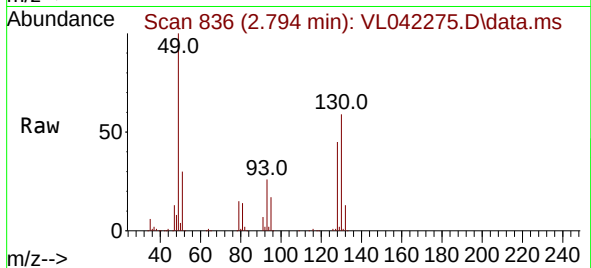
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 836
Delta R.T. 0.010 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

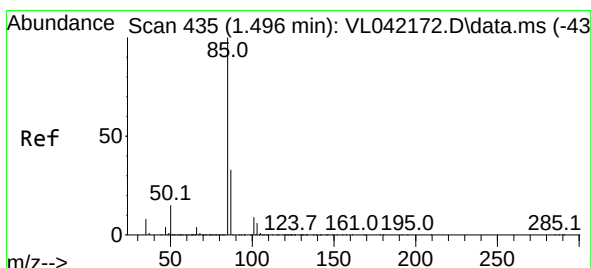
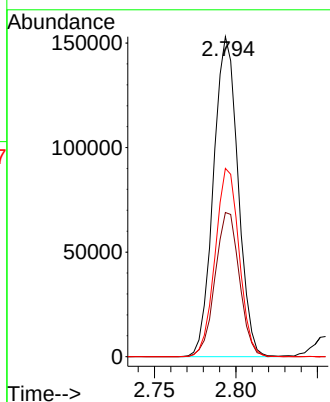
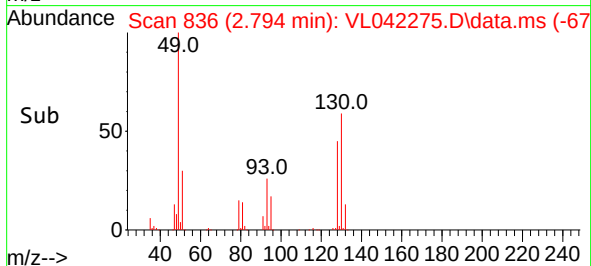
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



Tgt Ion: 49 Resp: 16029
Ion Ratio Lower Upper
49 100
128 44.6 22.9 68.5
130 57.4 28.8 86.4

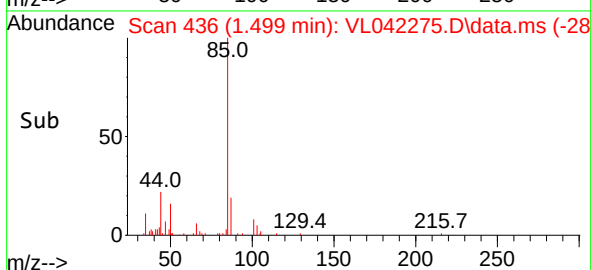
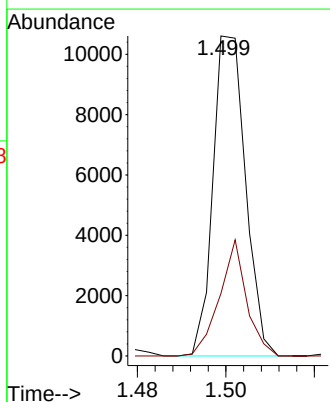
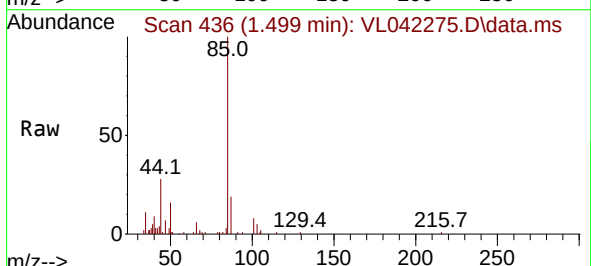
Manual Integrations
APPROVED

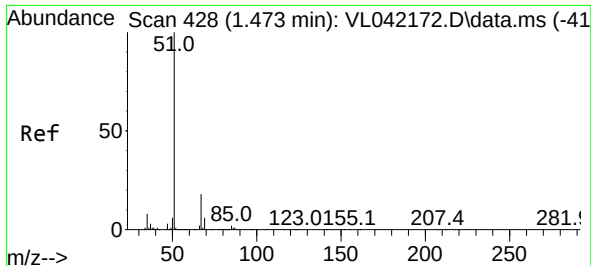
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.229 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

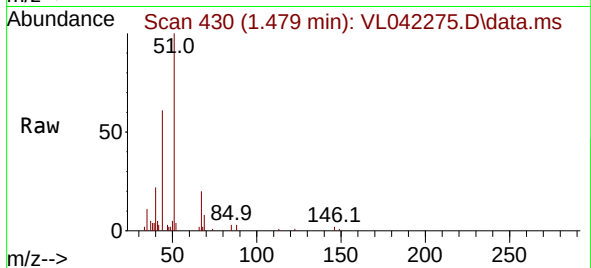
Tgt Ion: 85 Resp: 5426
Ion Ratio Lower Upper
85 100
87 19.5 26.1 39.1#





#3
Chlorodifluoromethane
Concen: 0.176 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

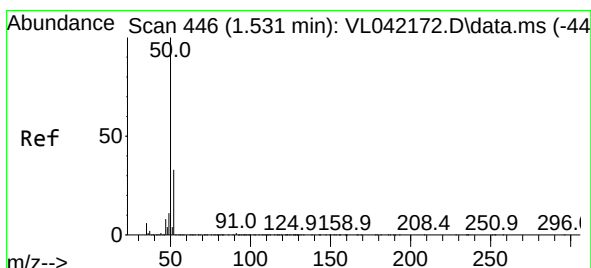
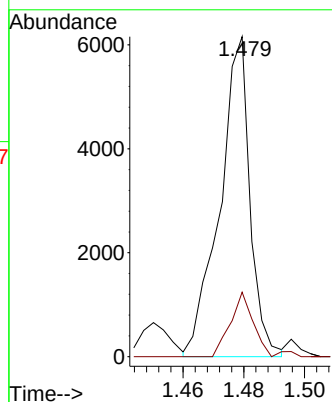
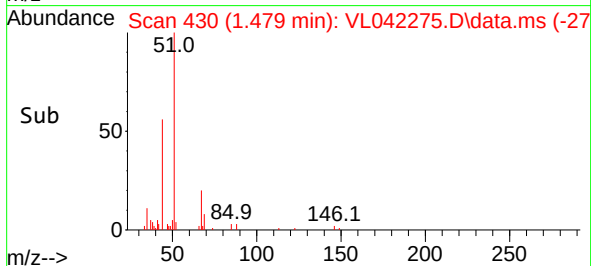
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



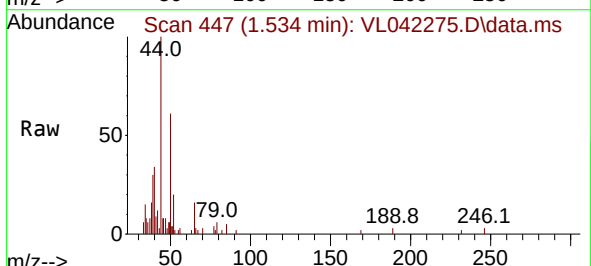
Tgt Ion: 51 Resp: 425
Ion Ratio Lower Upper
51 100
67 9.2 15.0 22.6

Manual Integrations
APPROVED

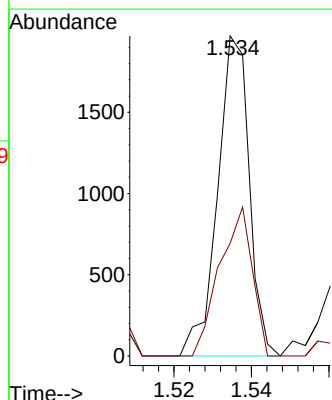
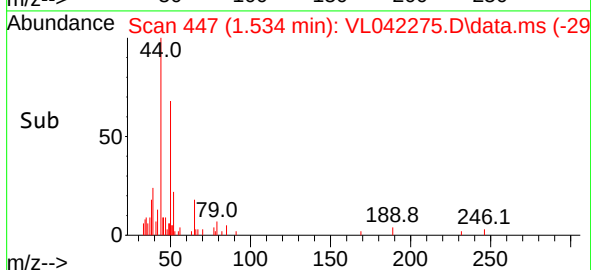
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

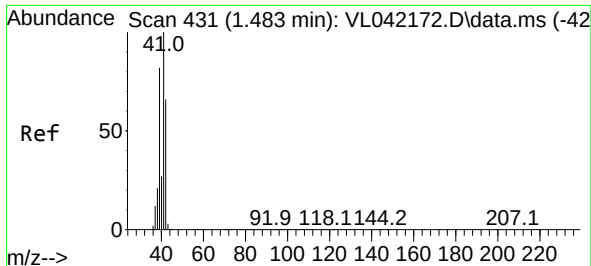


#4
Chloromethane
Concen: 0.116 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42



Tgt Ion: 50 Resp: 1118
Ion Ratio Lower Upper
50 100
52 32.8 26.1 39.1





#9

Propene

Concen: 0.209 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

Instrument :

MSVOA_L

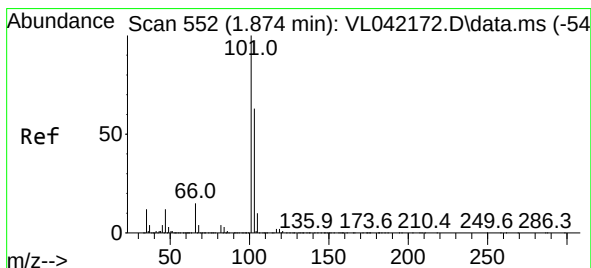
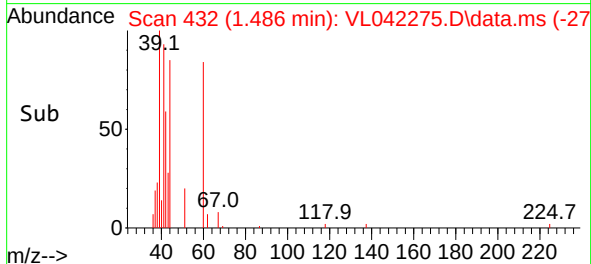
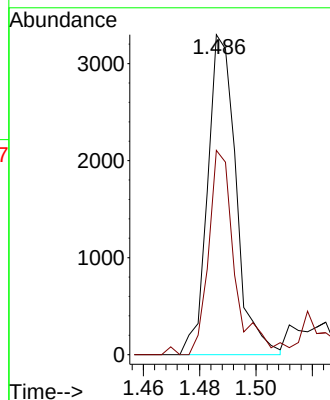
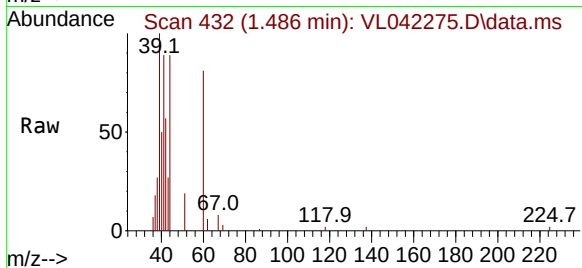
ClientSampleId :

SSSG-B1-3-04012025

Tgt Ion: 41 Resp: 2314
Ion Ratio Lower Upper
41 100
42 59.7 55.4 83.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#11

Trichlorofluoromethane

Concen: 0.116 ppbv

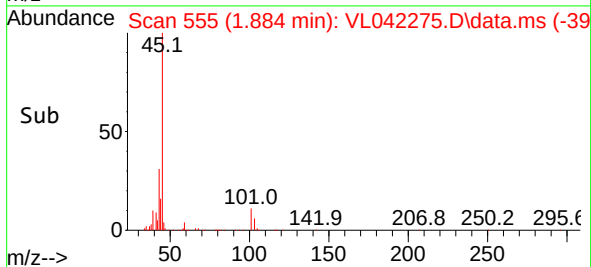
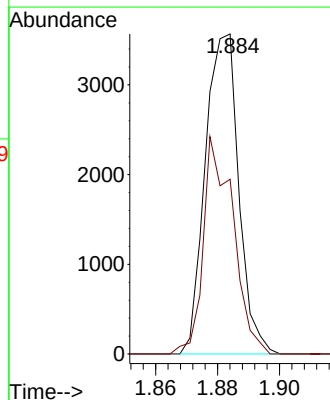
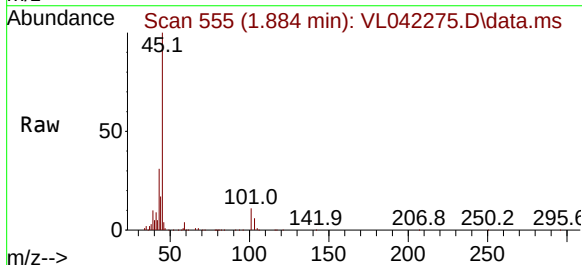
RT: 1.884 min Scan# 555

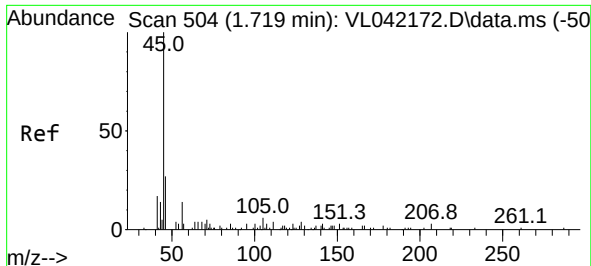
Delta R.T. 0.010 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

Tgt Ion:101 Resp: 2674
Ion Ratio Lower Upper
101 100
103 54.6 50.2 75.2





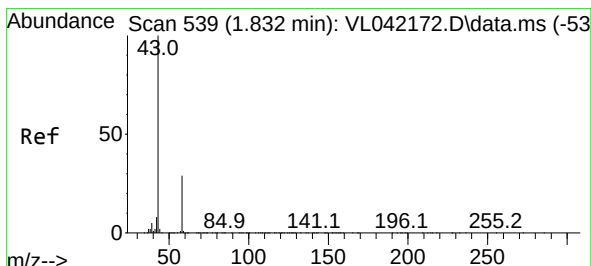
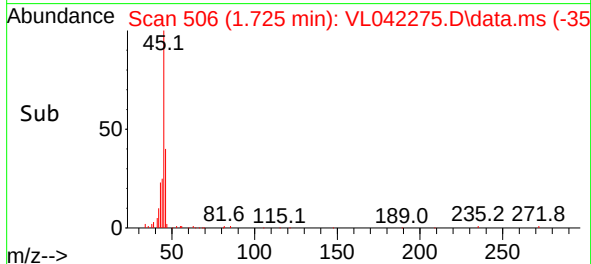
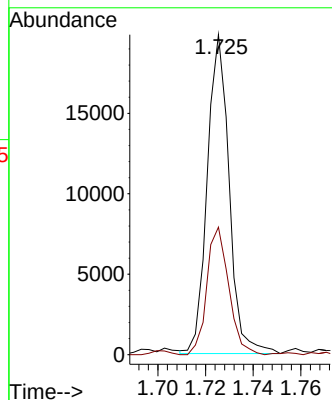
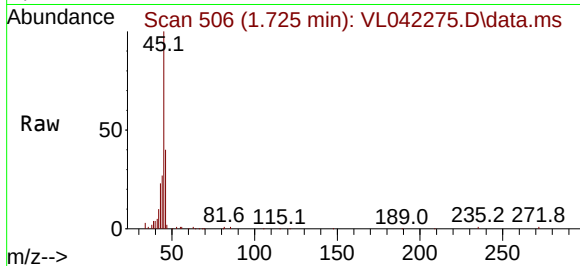
#13
Ethanol
Concen: 12.076 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025

Tgt Ion: 45 Resp: 1265
Ion Ratio Lower Upper
45 100
46 42.5 20.2 80.8

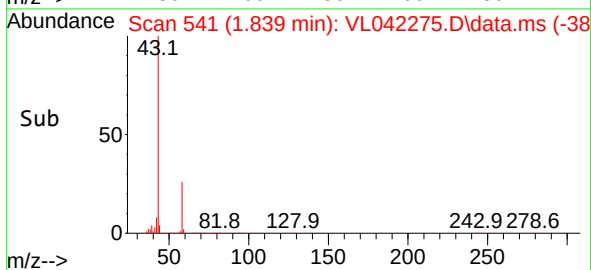
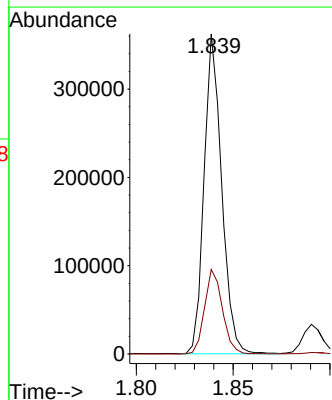
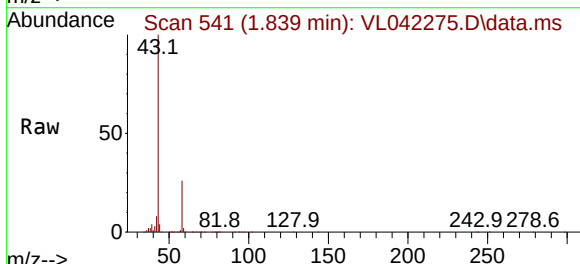
Manual Integrations
APPROVED

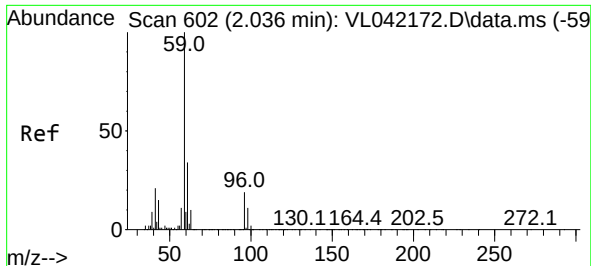
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#15
Acetone
Concen: 10.208 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion: 43 Resp: 228835
Ion Ratio Lower Upper
43 100
58 26.8 23.2 34.8





#17

tert-Butyl alcohol

Concen: 0.225 ppbv

RT: 2.046 min Scan# 602

Delta R.T. 0.010 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-3-04012025

Tgt Ion: 59 Resp: 6274

Ion Ratio Lower Upper

59 100

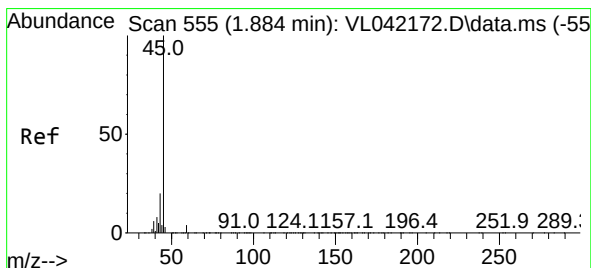
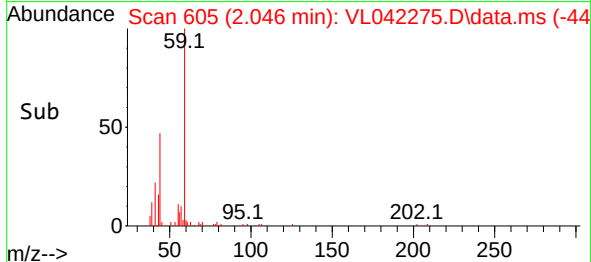
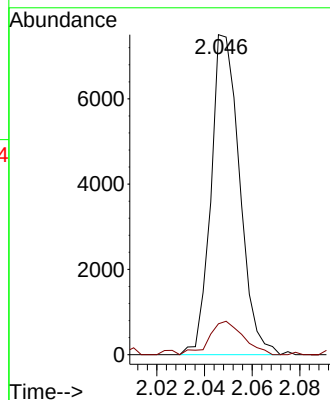
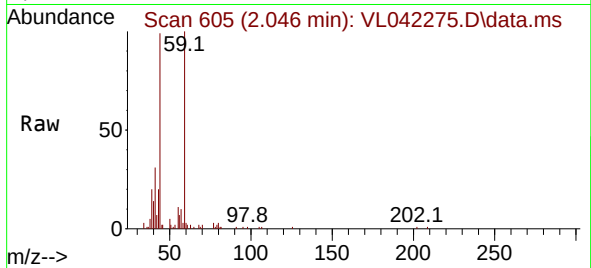
57 13.1 8.9 13.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#19

Isopropyl Alcohol

Concen: 7.117 ppbv

RT: 1.890 min Scan# 557

Delta R.T. 0.006 min

Lab File: VL042275.D

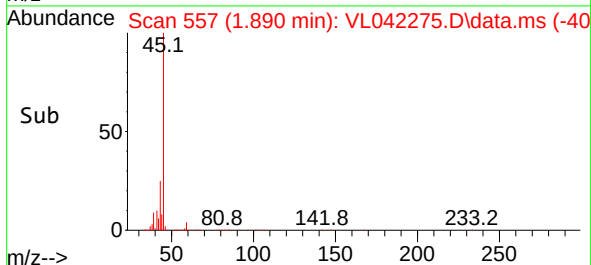
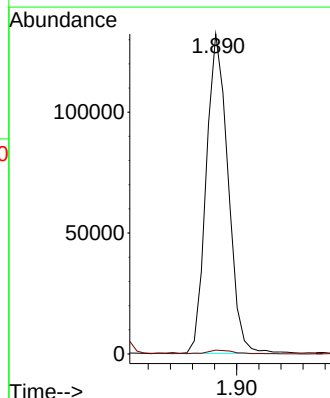
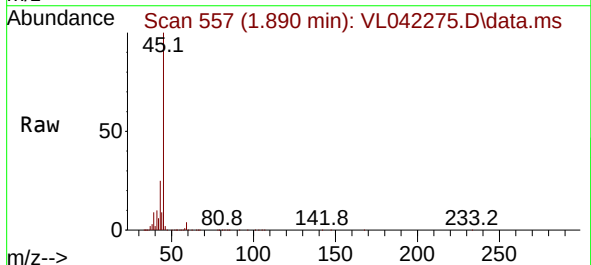
Acq: 08 Apr 2025 22:42

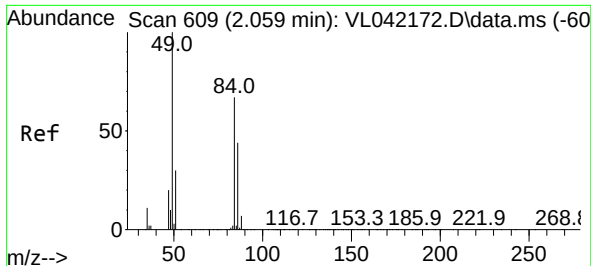
Tgt Ion: 45 Resp: 90023

Ion Ratio Lower Upper

45 100

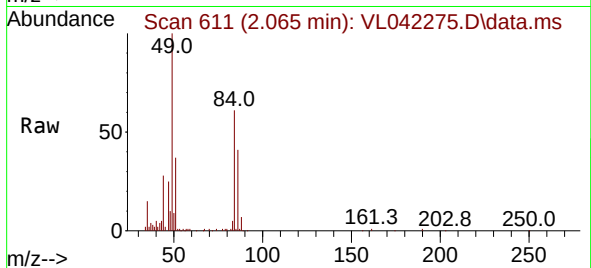
58 68.1 36.9 55.3#





#20
Methylene Chloride
Concen: 1.141 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

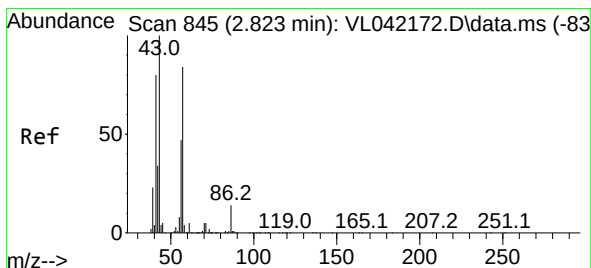
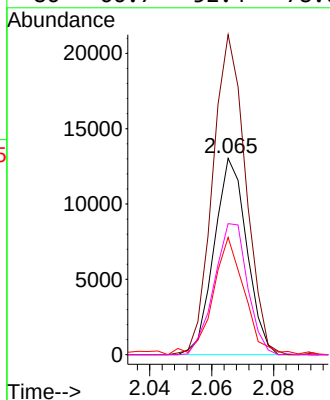
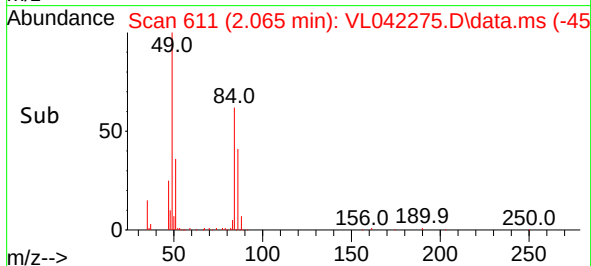
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



Tgt Ion: 84	Resp: 952
Ion Ratio	Lower Upper
84 100	
49 162.1	120.2 180.4
51 58.4	37.4 56.0
86 66.7	52.4 78.6

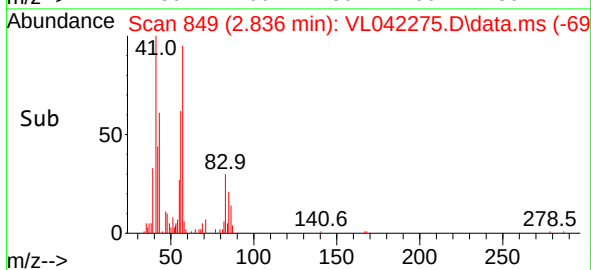
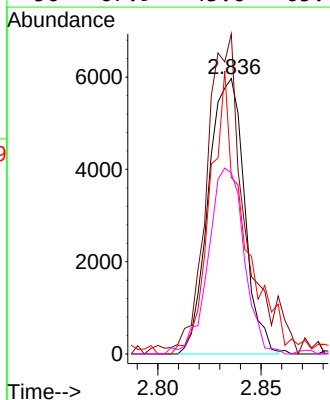
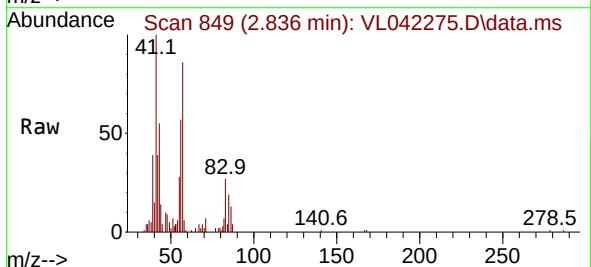
Manual Integrations
APPROVED

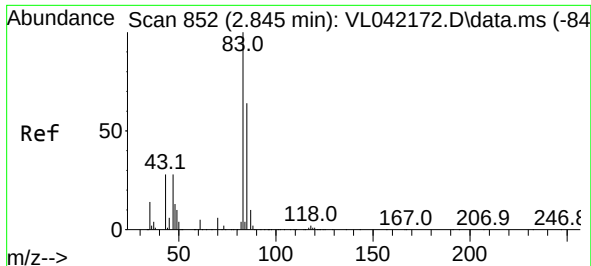
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#26
Hexane
Concen: 0.321 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.013 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

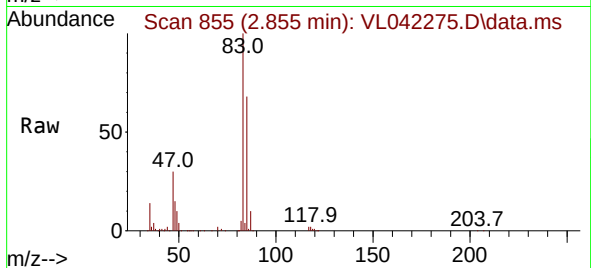
Tgt Ion: 57	Resp: 7214
Ion Ratio	Lower Upper
57 100	
41 127.3	76.6 114.8#
43 99.3	207.8 311.8#
56 67.9	43.6 65.4#





#29
Chloroform
Concen: 3.078 ppbv
RT: 2.855 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

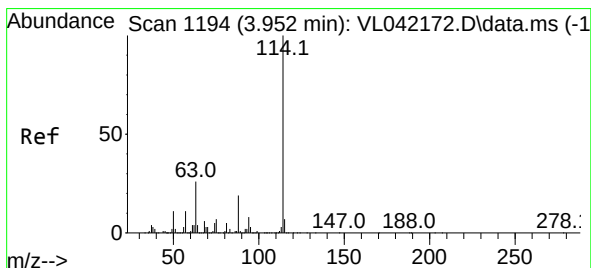
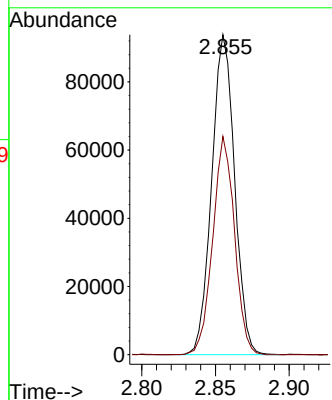
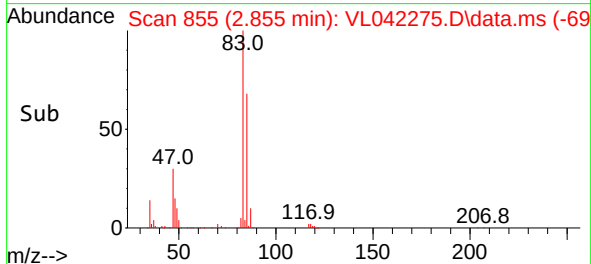
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



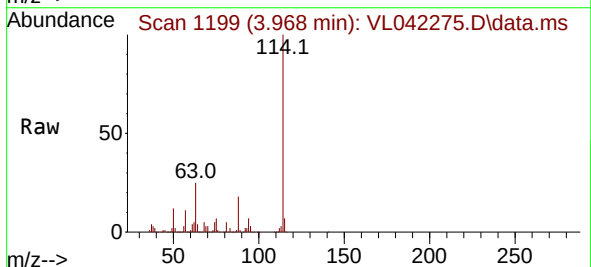
Tgt Ion: 83 Resp: 101229
Ion Ratio Lower Upper
83 100
85 68.2 51.4 77.2

Manual Integrations
APPROVED

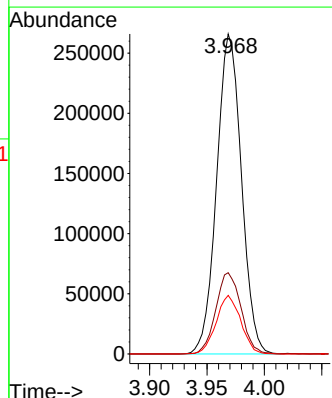
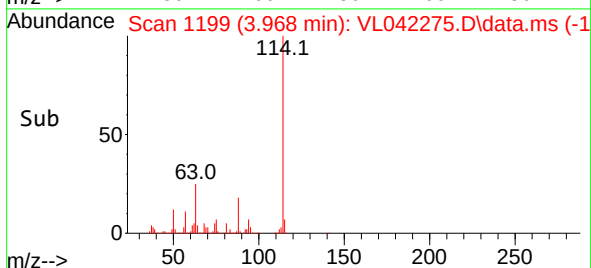
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

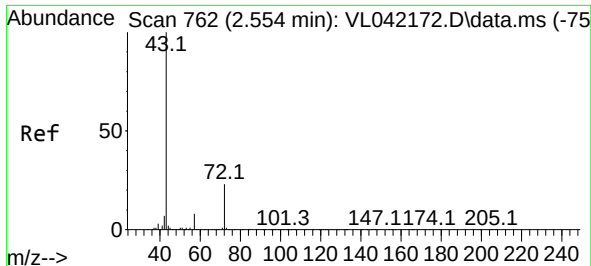


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.016 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42



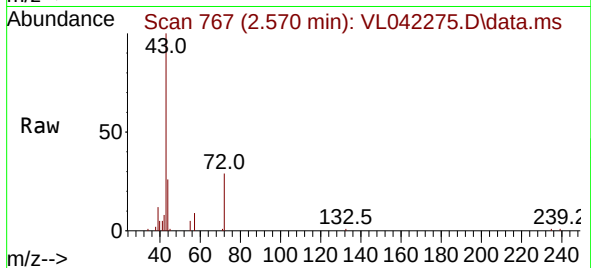
Tgt Ion:114 Resp: 399383
Ion Ratio Lower Upper
114 100
63 25.9 20.7 31.1
88 18.1 15.0 22.4





#34
2-Butanone
Concen: 0.251 ppbv
RT: 2.570 min Scan# 71
Delta R.T. 0.016 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

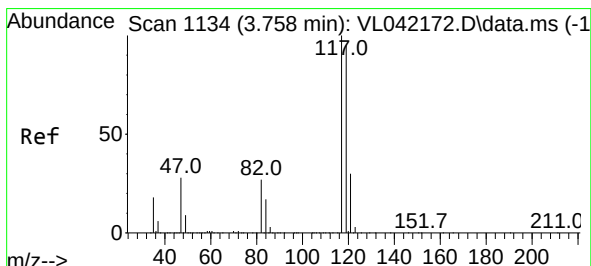
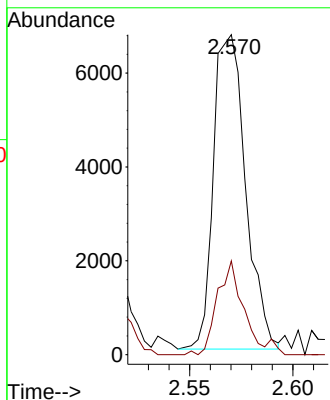
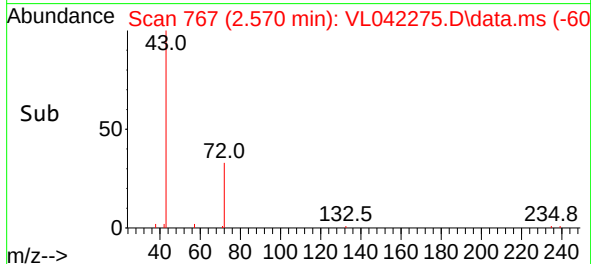
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



Tgt Ion: 43 Resp: 7264
Ion Ratio Lower Upper
43 100
72 25.0 18.2 27.2

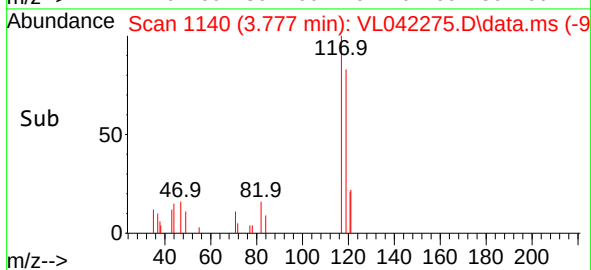
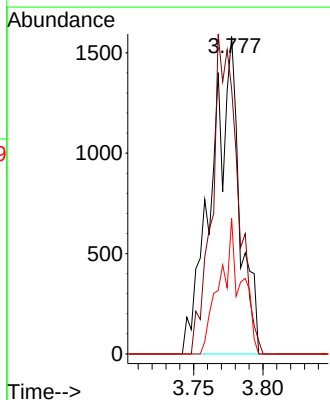
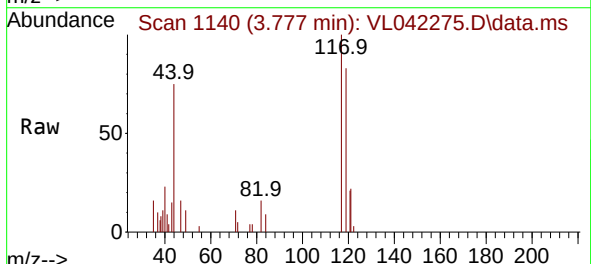
Manual Integrations
APPROVED

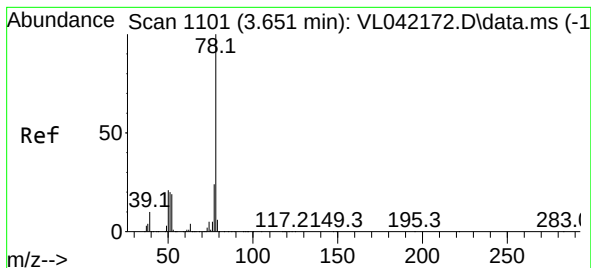
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 3.777 min Scan# 1140
Delta R.T. 0.019 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion:117 Resp: 2231
Ion Ratio Lower Upper
117 100
119 83.5 76.2 114.2
121 21.8 24.2 36.4#





#36

Benzene

Concen: 0.139 ppbv m

RT: 3.667 min Scan# 1106

Delta R.T. 0.016 min

Lab File: VL042275.D

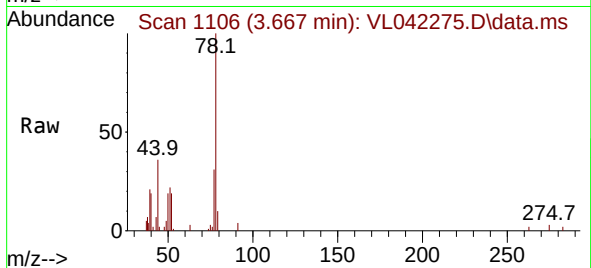
Acq: 08 Apr 2025 22:42

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-3-04012025

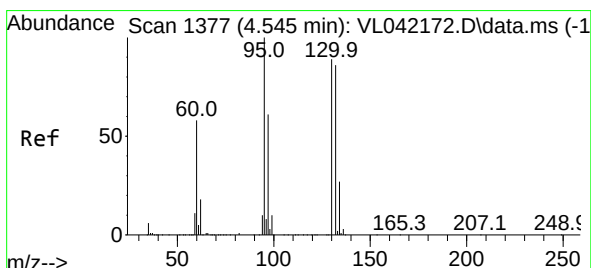
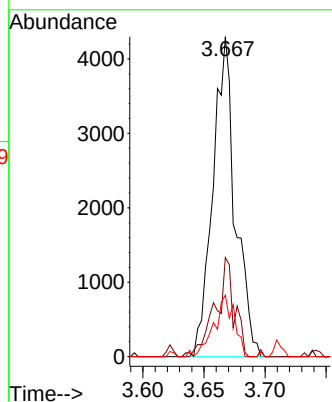
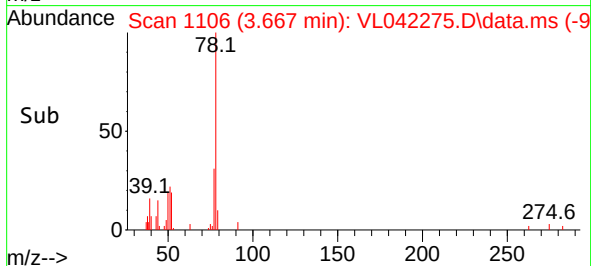


Tgt Ion: 78	Resp: 5508
Ion Ratio	Lower Upper
78	100
77	31.0 19.1 28.7
50	19.2 16.6 24.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#38

Trichloroethene

Concen: 0.048 ppbv m

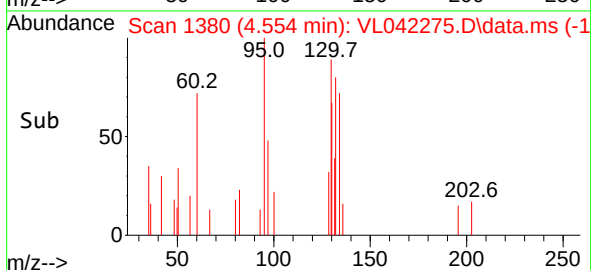
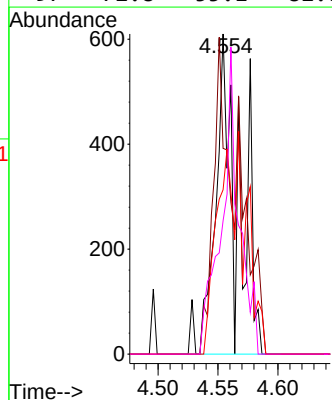
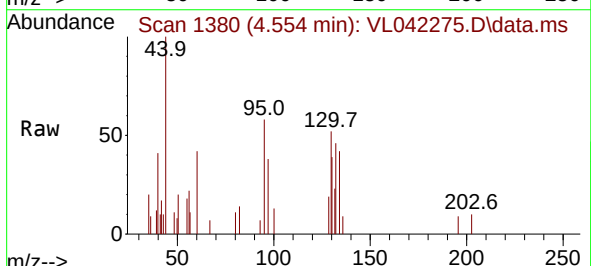
RT: 4.554 min Scan# 1380

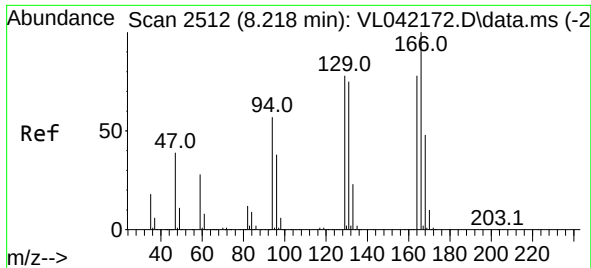
Delta R.T. 0.010 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

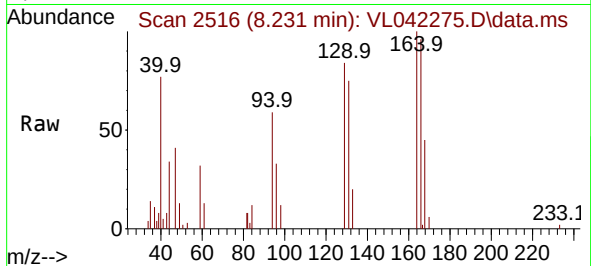
Tgt Ion:130	Resp: 793
Ion Ratio	Lower Upper
130	100
95	112.3 89.8 134.8
132	89.7 77.4 116.2
97	72.8 55.1 82.7





#52
Tetrachloroethene
Concen: 0.238 ppbv m
RT: 8.231 min Scan# 2116
Delta R.T. 0.013 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

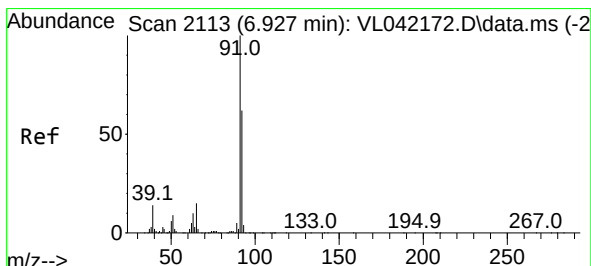
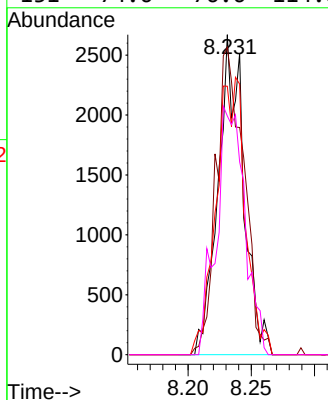
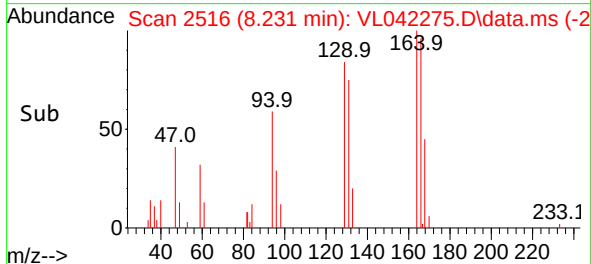
Instrument : MSVOA_L
ClientSampleId : SSSG-B1-3-04012025



Tgt Ion:164 Resp: 3738
Ion Ratio Lower Upper
164 100
166 96.1 102.5 153.7
129 83.9 79.8 119.8
131 74.6 76.6 114.8#

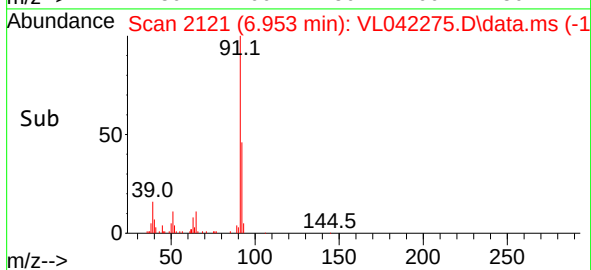
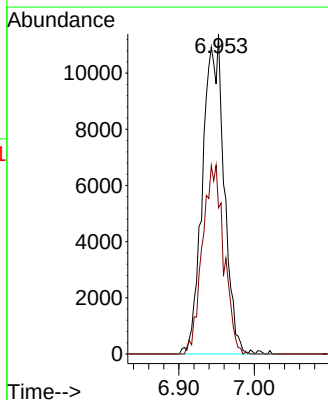
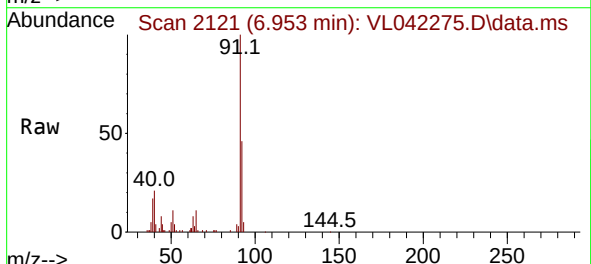
Manual Integrations
APPROVED

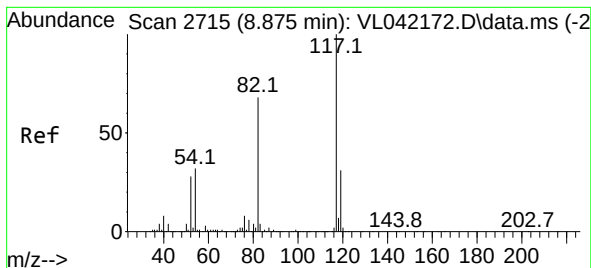
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 0.477 ppbv m
RT: 6.953 min Scan# 2121
Delta R.T. 0.026 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion: 91 Resp: 22387
Ion Ratio Lower Upper
91 100
92 59.4 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

Instrument :

MSVOA_L

ClientSampleId :

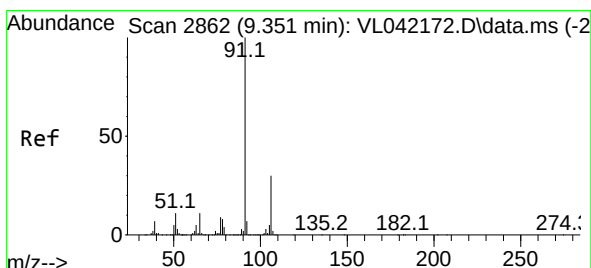
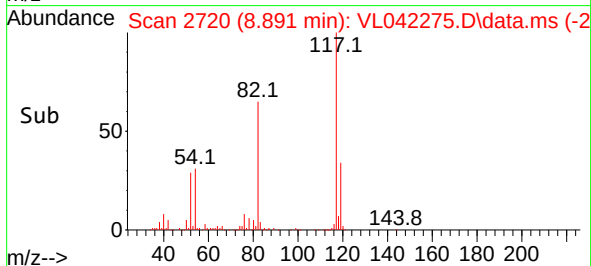
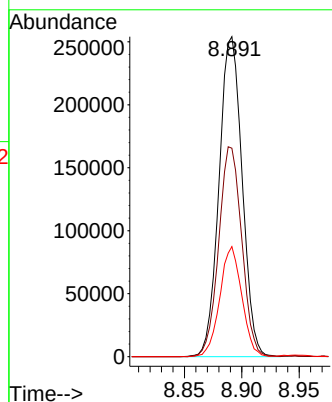
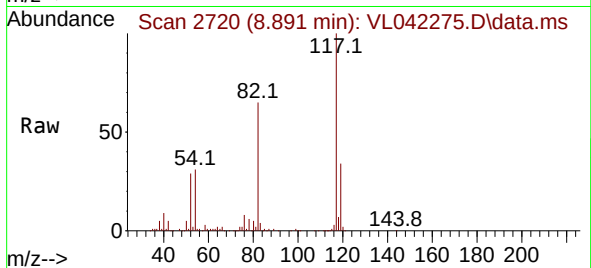
SSSG-B1-3-04012025

Tgt Ion:	117	Resp:	355820
Ion	Ratio	Lower	Upper
117	100		
82	65.5	55.8	83.6
119	32.8	25.5	38.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#58

Ethyl Benzene

Concen: 0.100 ppbv

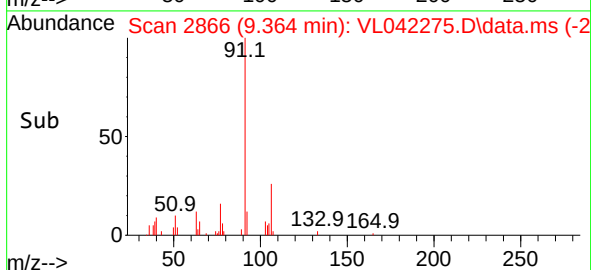
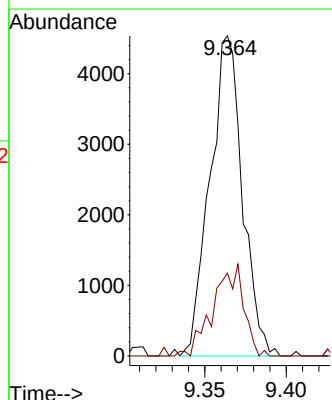
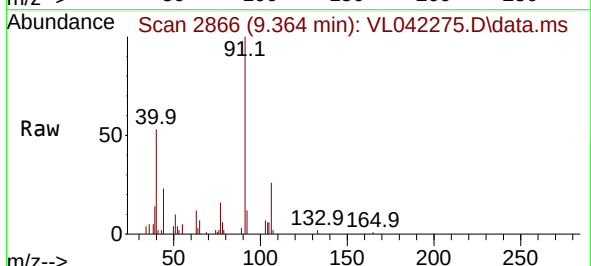
RT: 9.364 min Scan# 2866

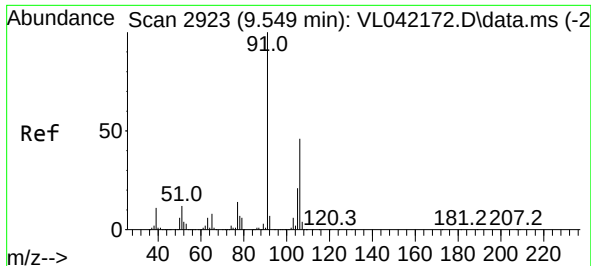
Delta R.T. 0.013 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

Tgt Ion:	91	Resp:	6292
Ion	Ratio	Lower	Upper
91	100		
106	25.9	24.2	36.2





#59

m/p-Xylene

Concen: 0.352 ppbv m

RT: 9.539 min Scan# 2923

Delta R.T. -0.010 min

Lab File: VL042275.D

Acq: 08 Apr 2025 22:42

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-3-04012025

Tgt Ion: 91 Resp: 17779

Ion Ratio Lower Upper

91 100

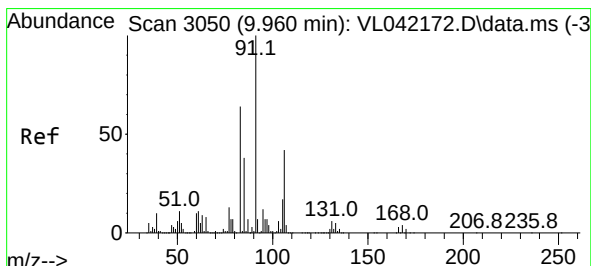
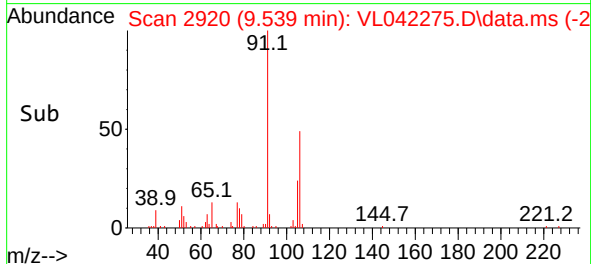
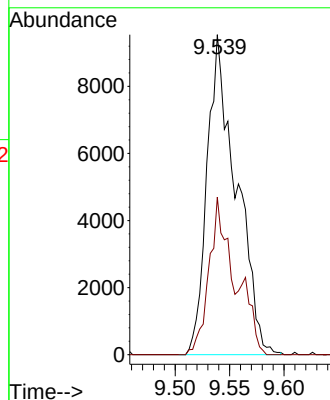
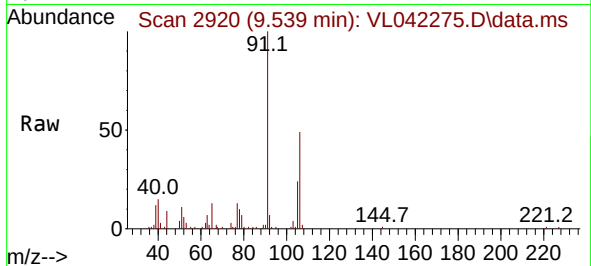
106 0.0 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#60

o-Xylene

Concen: 0.138 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.013 min

Lab File: VL042275.D

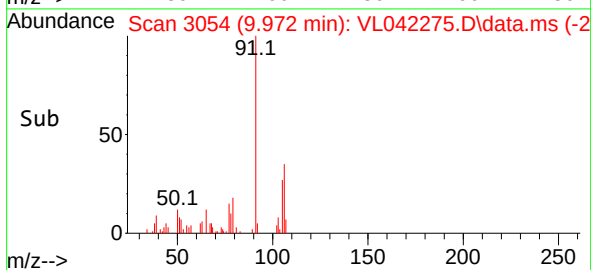
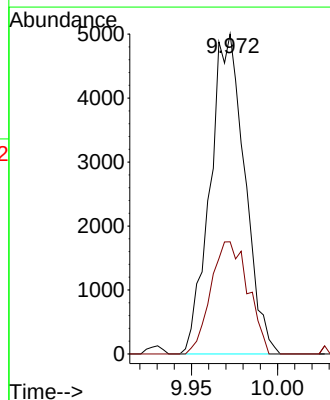
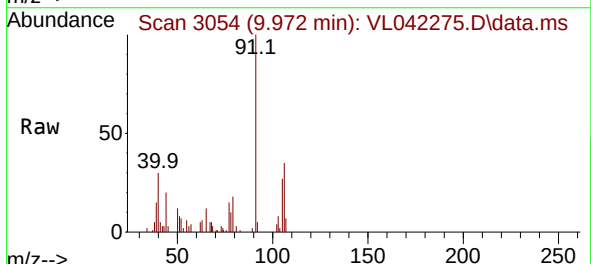
Acq: 08 Apr 2025 22:42

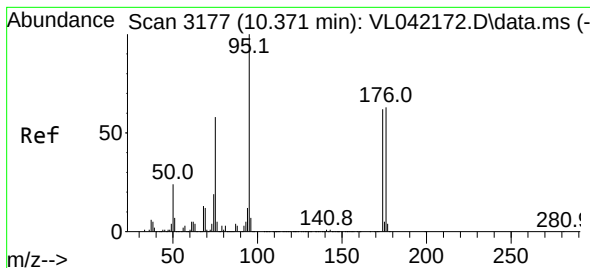
Tgt Ion: 91 Resp: 7001

Ion Ratio Lower Upper

91 100

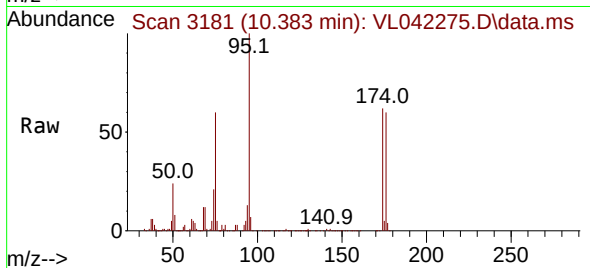
106 37.6 20.8 62.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.470 ppbv
RT: 10.383 min Scan# 3177
Delta R.T. 0.013 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

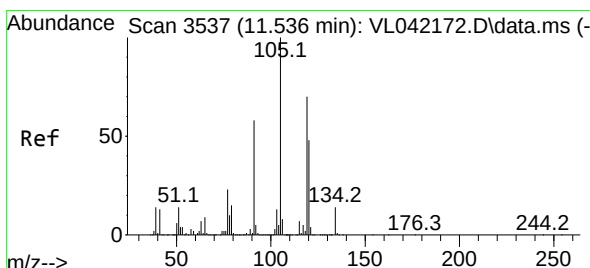
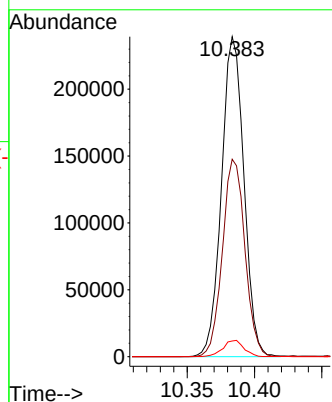
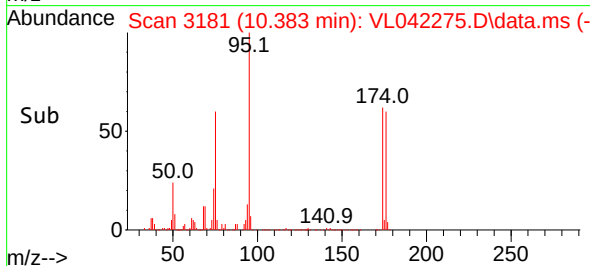
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-3-04012025



Tgt Ion: 95 Resp: 276732
Ion Ratio Lower Upper
95 100
174 62.2 50.6 76.0
175 4.8 3.8 5.6

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.114 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.006 min
Lab File: VL042275.D
Acq: 08 Apr 2025 22:42

Tgt Ion:105 Resp: 7204
Ion Ratio Lower Upper
105 100
120 38.0 38.6 58.0#
91 13.2 46.2 69.2#
77 21.0 18.6 27.8

