

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042960.D
 Acq On : 22 Sep 2025 16:53
 Operator : SY/MD
 Sample : Q3111-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:51:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	158433	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	482456	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	431460	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 325029 10.092 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
10) Heptane	4.981	43	13468m	0.437	ppbv	
13) Ethanol	1.722	45	77444	69.094	ppbv	97
15) Acetone	1.835	43	1106296	53.612	ppbv	99
17) tert-Butyl alcohol	2.042	59	3795m	0.168	ppbv	
19) Isopropyl Alcohol	1.887	45	935425	75.407	ppbv	89
20) Methylene Chloride	2.062	84	7193	0.535	ppbv	92
25) Ethyl Acetate	2.839	43	77893	1.494	ppbv #	98
26) Hexane	2.829	57	47310	1.990	ppbv #	77
27) Carbon Disulfide	2.149	76	16744	0.785	ppbv #	51
30) Cyclohexane	3.861	84	4439	0.223	ppbv	85
34) 2-Butanone	2.560	43	27893	0.825	ppbv	99
36) Benzene	3.661	78	15599	0.344	ppbv #	94
41) Tetrahydrofuran	3.065	42	10186m	0.524	ppbv	
44) 2,2,4-Trimethylpentane	4.648	57	33245m	0.425	ppbv	
52) Tetrachloroethene	8.228	164	24925	1.422	ppbv	93
53) Toluene	6.936	91	58424	1.090	ppbv	99
58) Ethyl Benzene	9.361	91	10574	0.149	ppbv	92
59) m/p-Xylene	9.535	91	24283	0.435	ppbv #	100
60) o-Xylene	9.966	91	10347	0.185	ppbv	95
61) Styrene	9.872	104	5354	0.203	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	8215	0.131	ppbv #	60
79) Naphthalene	13.516	128	5583	0.101	ppbv #	96

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

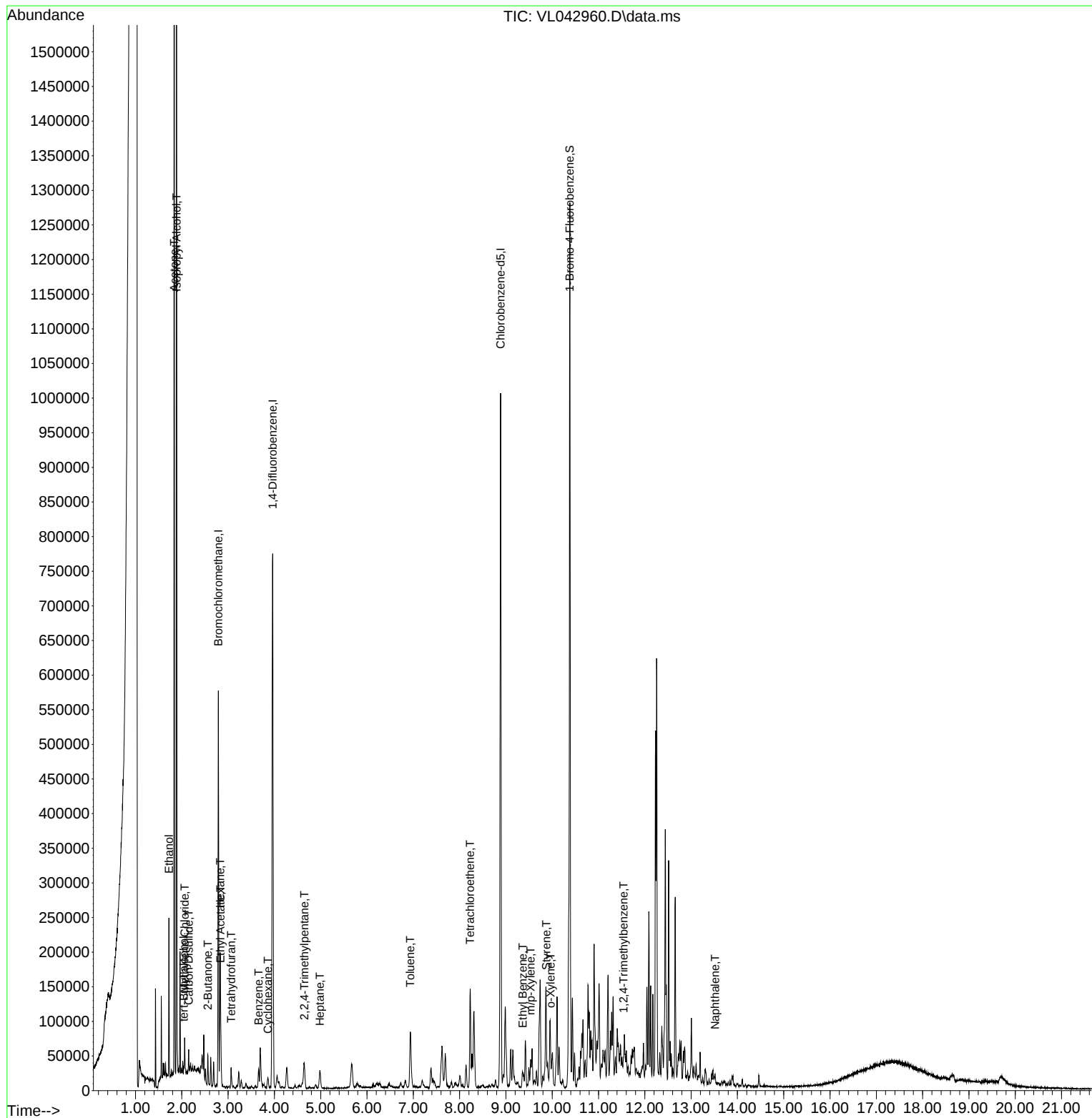
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042960.D
Acq On : 22 Sep 2025 16:53
Operator : SY/MD
Sample : Q3111-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

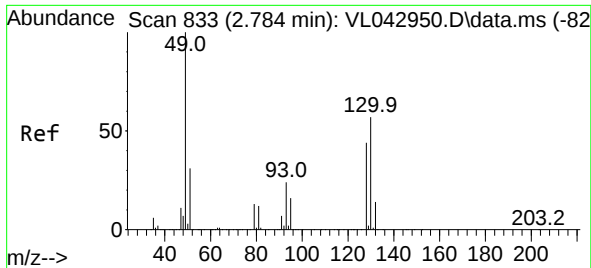
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Sep 23 02:51:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

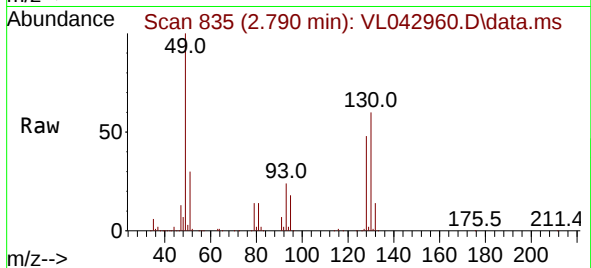
Reviewed By : Semsettin Yesilyurt 09/23/2025
Supervised By : Mahesh Dadoda 09/24/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

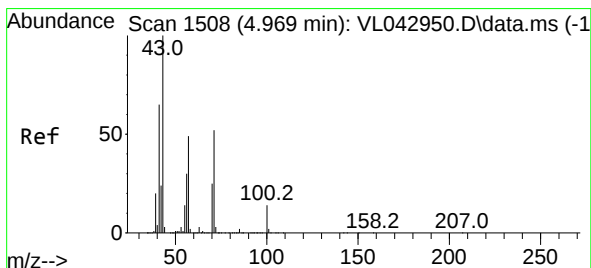
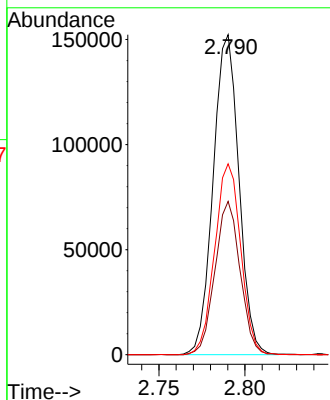
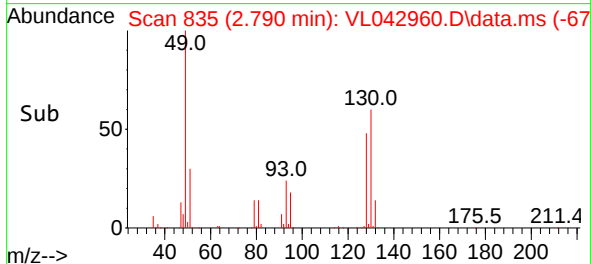
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 15843
Ion Ratio Lower Upper
49 100
128 46.9 22.9 68.8
130 60.3 29.1 87.3

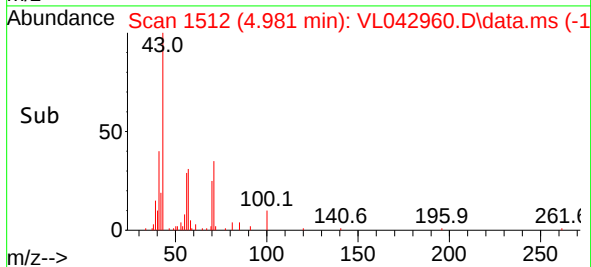
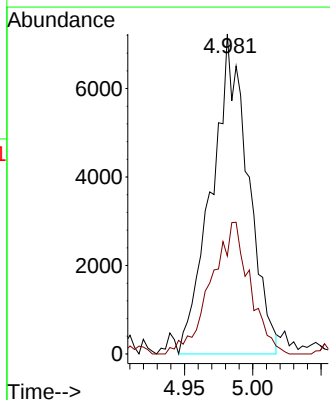
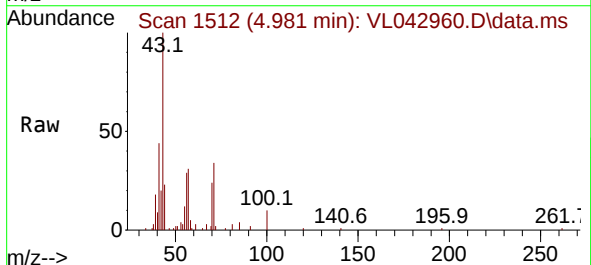
Manual Integrations
APPROVED

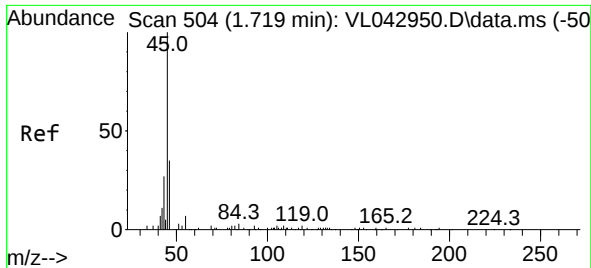
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#10
Heptane
Concen: 0.437 ppbv m
RT: 4.981 min Scan# 1512
Delta R.T. 0.013 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

Tgt Ion: 43 Resp: 13468
Ion Ratio Lower Upper
43 100
57 0.0 38.6 57.8#





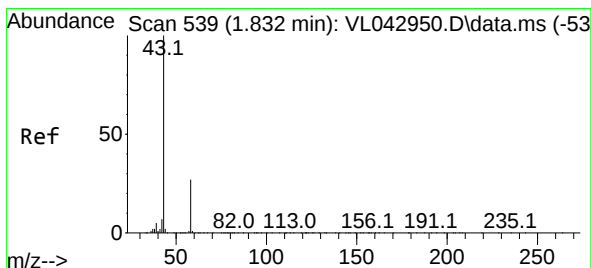
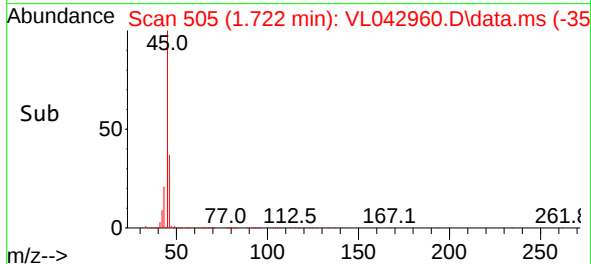
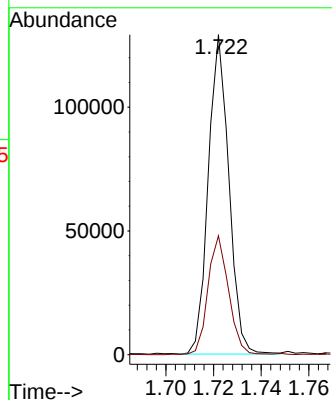
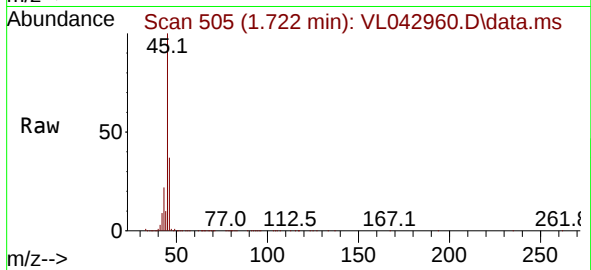
#13
Ethanol
Concen: 69.094 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 77444
Ion Ratio Lower Upper
45 100
46 38.3 16.2 64.6

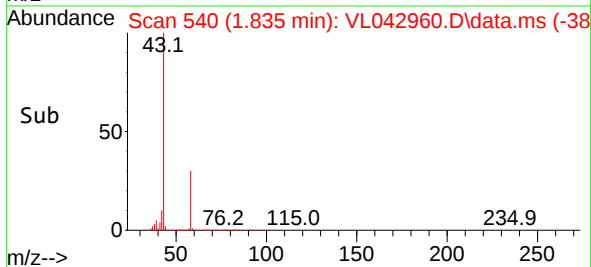
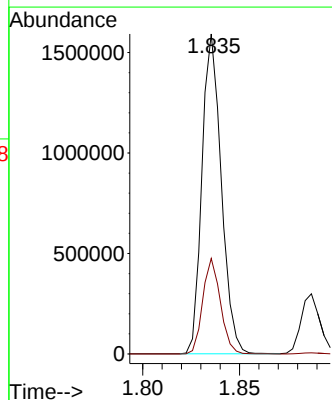
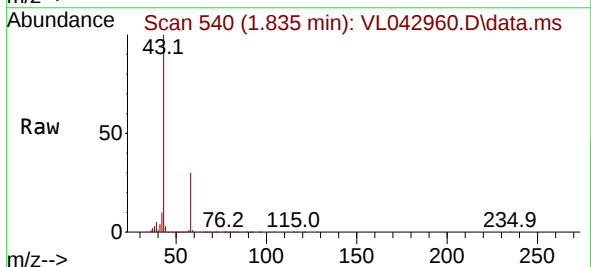
Manual Integrations
APPROVED

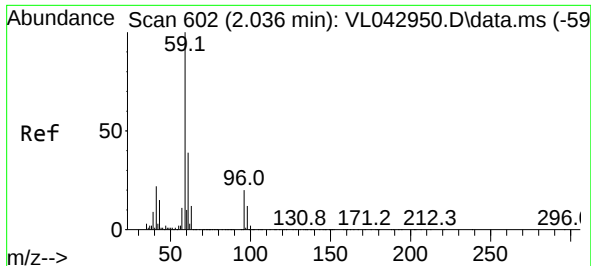
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#15
Acetone
Concen: 53.612 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

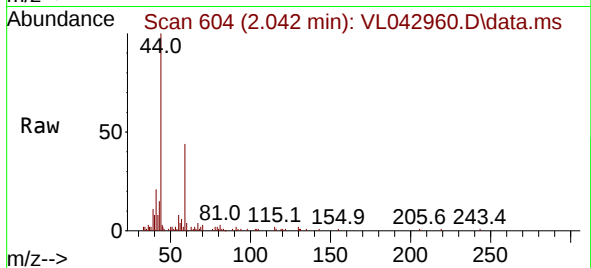
Tgt Ion: 43 Resp: 1106296
Ion Ratio Lower Upper
43 100
58 27.2 22.3 33.5





#17
tert-Butyl alcohol
Concen: 0.168 ppbv m
RT: 2.042 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

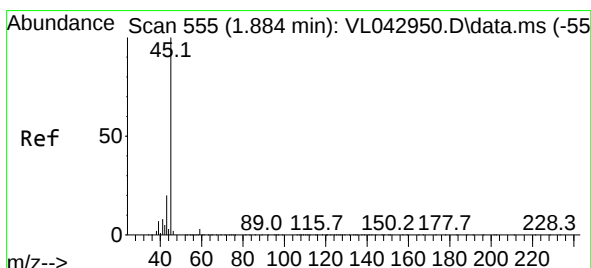
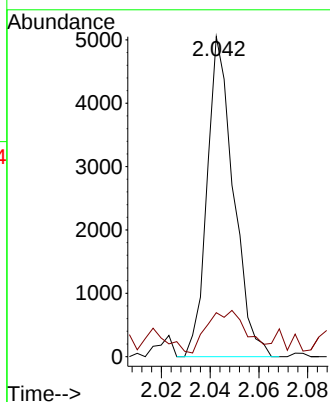
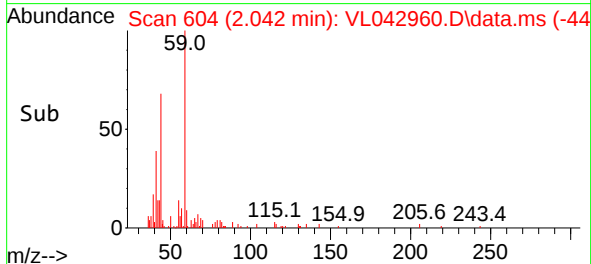
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 59 Resp: 379
Ion Ratio Lower Upper
59 100
57 82.8 8.6 12.8

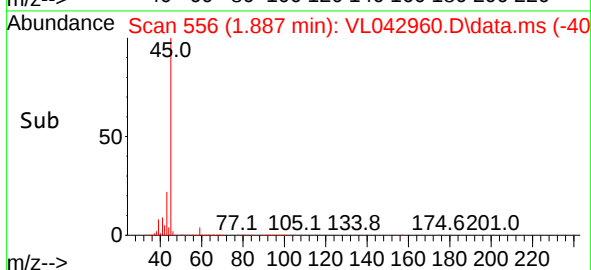
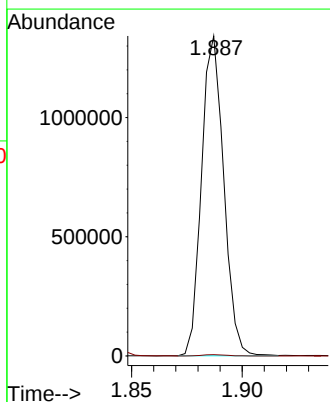
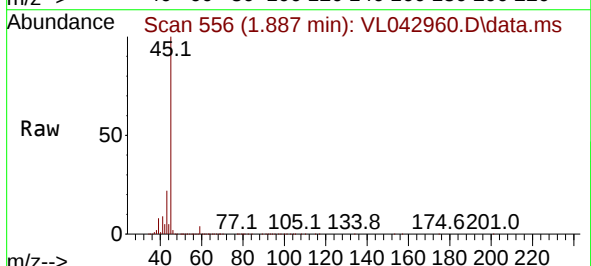
Manual Integrations
APPROVED

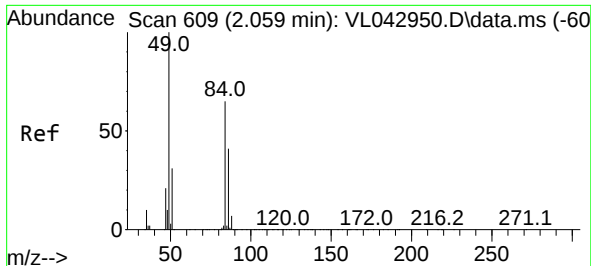
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#19
Isopropyl Alcohol
Concen: 75.407 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

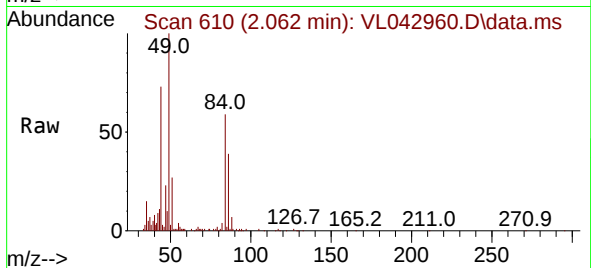
Tgt Ion: 45 Resp: 935425
Ion Ratio Lower Upper
45 100
58 32.2 31.0 46.6





#20
Methylene Chloride
Concen: 0.535 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

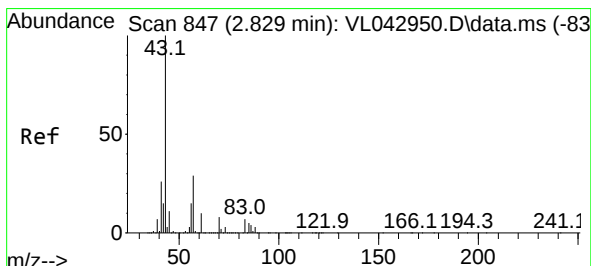
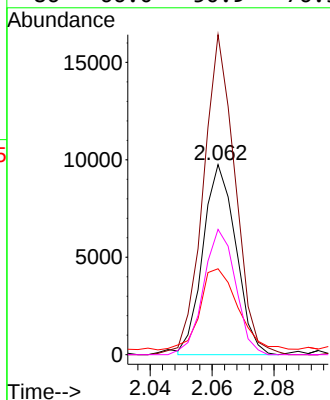
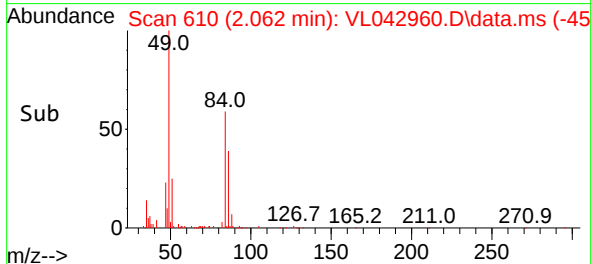
Instrument :
MSVOA_L
ClientSampleId :
SV1



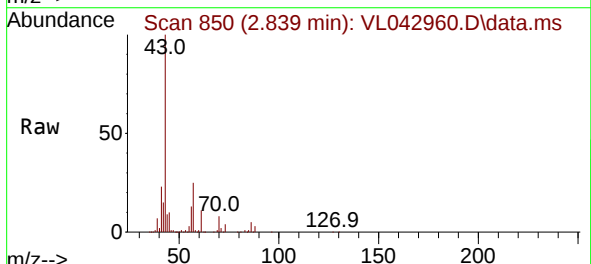
Tgt Ion: 84 Resp: 7193
Ion Ratio Lower Upper
84 100
49 166.9 124.1 186.1
51 40.9 39.8 59.8
86 66.0 50.9 76.3

Manual Integrations
APPROVED

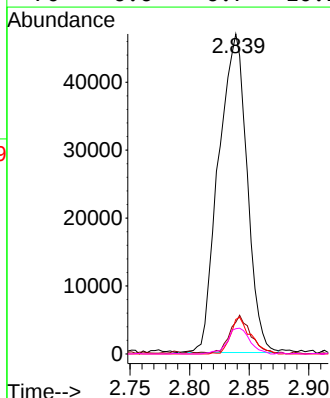
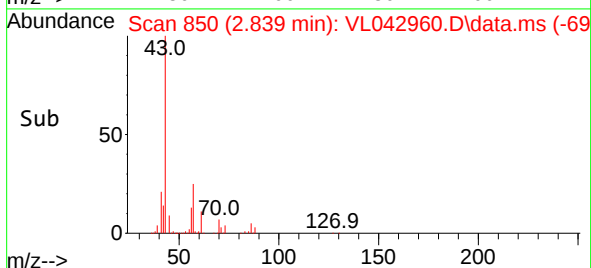
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

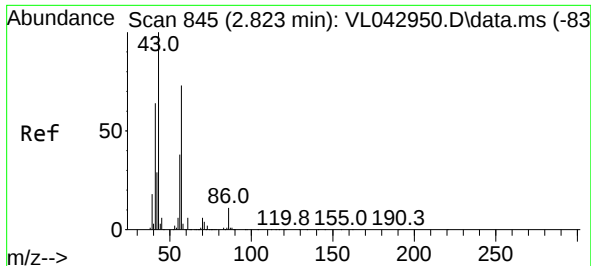


#25
Ethyl Acetate
Concen: 1.494 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.010 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53



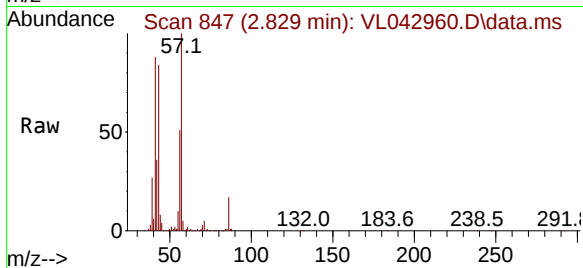
Tgt Ion: 43 Resp: 77893
Ion Ratio Lower Upper
43 100
45 9.7 7.7 11.5
61 8.1 7.1 10.7
70 6.6 6.7 10.1





#26
Hexane
Concen: 1.990 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.006 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

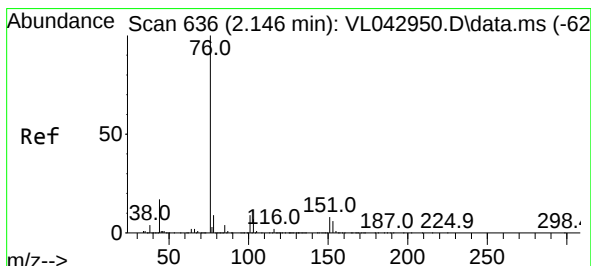
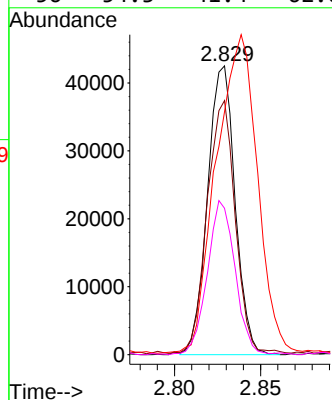
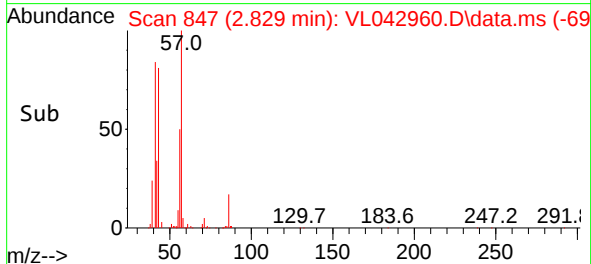
Instrument :
MSVOA_L
ClientSampleId :
SV1



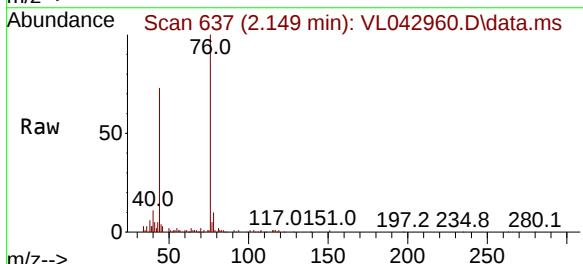
Tgt Ion: 57 Resp: 47310
Ion Ratio Lower Upper
57 100
41 90.4 71.7 107.5
43 166.2 180.8 271.2
56 54.3 41.4 62.0

Manual Integrations
APPROVED

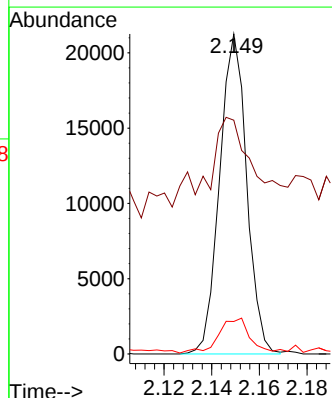
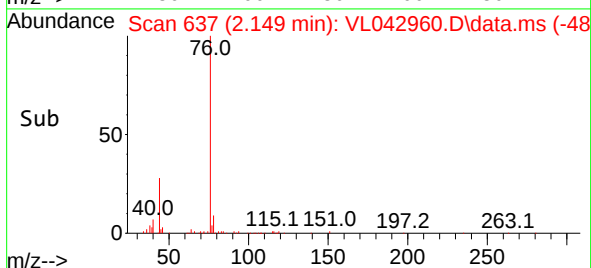
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

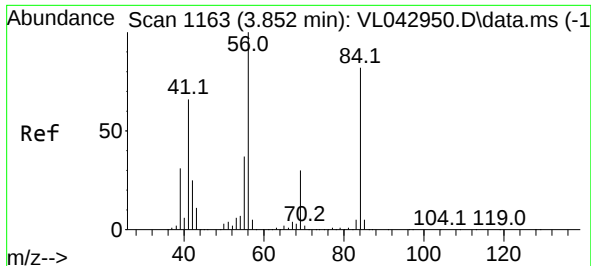


#27
Carbon Disulfide
Concen: 0.785 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53



Tgt Ion: 76 Resp: 16744
Ion Ratio Lower Upper
76 100
44 51.1 15.6 23.4#
78 15.9 8.9 13.3#





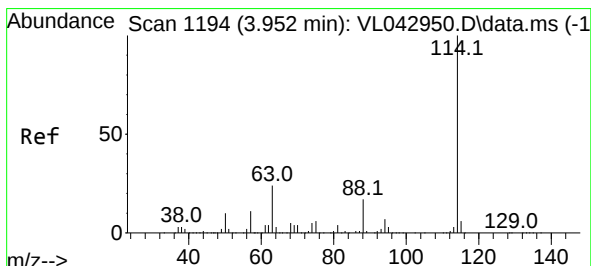
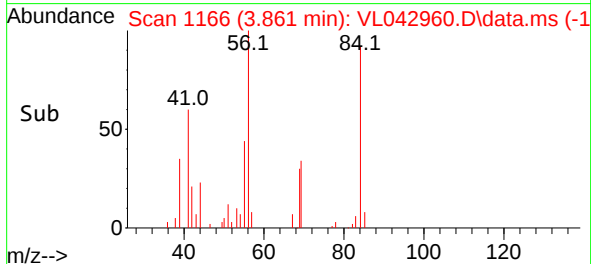
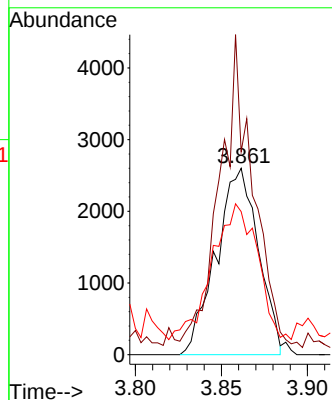
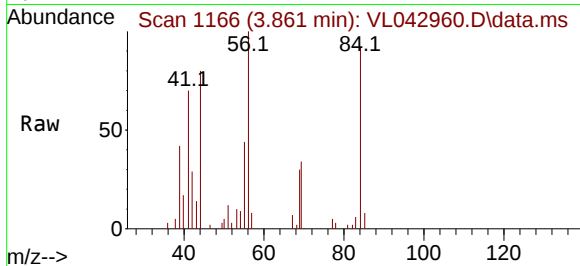
#30
Cyclohexane
Concen: 0.223 ppbv
RT: 3.861 min Scan# 1166
Delta R.T. 0.010 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 84 Resp: 4439
Ion Ratio Lower Upper
84 100
56 148.5 102.2 153.4
41 71.8 65.6 98.4

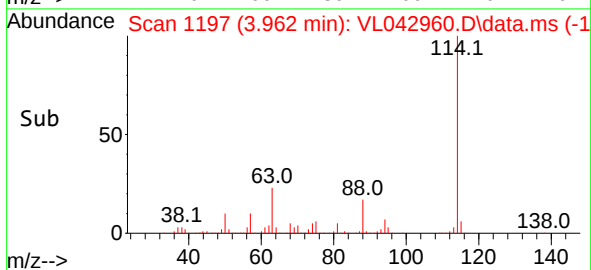
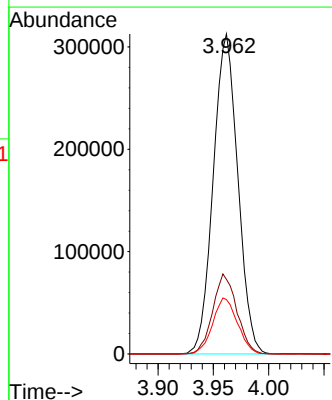
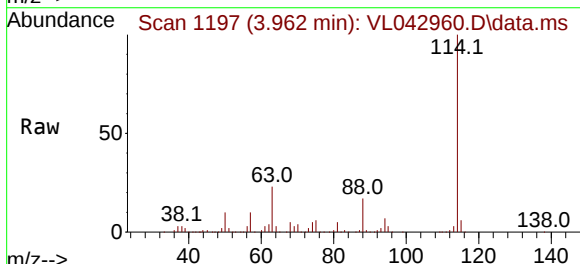
Manual Integrations
APPROVED

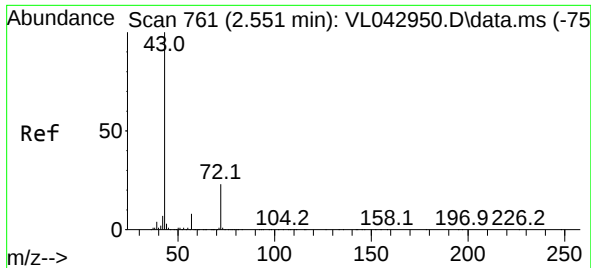
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.010 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

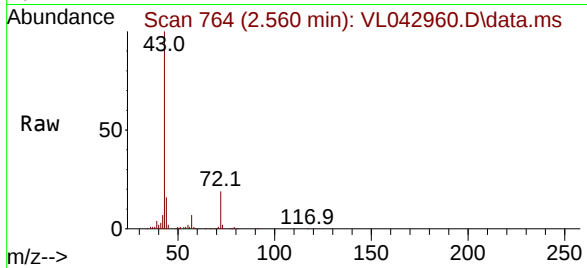
Tgt Ion:114 Resp: 482456
Ion Ratio Lower Upper
114 100
63 24.6 19.4 29.2
88 17.7 14.2 21.2





#34
2-Butanone
Concen: 0.825 ppbv
RT: 2.560 min Scan# 70
Delta R.T. 0.010 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

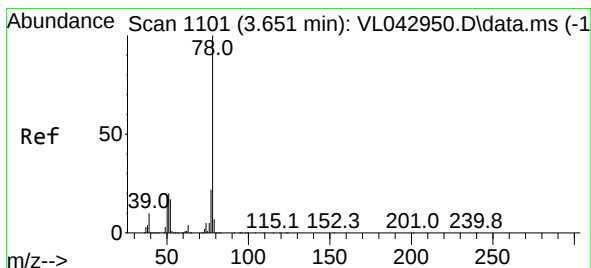
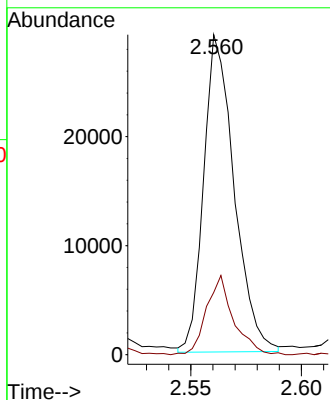
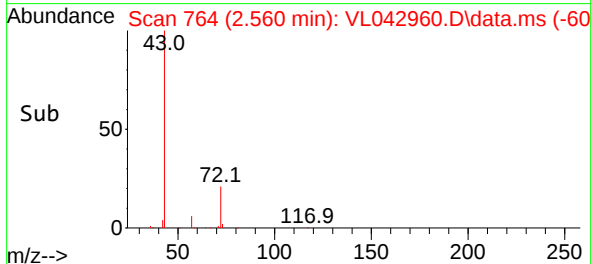
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 2789
Ion Ratio Lower Upper
43 100
72 22.3 17.7 26.5

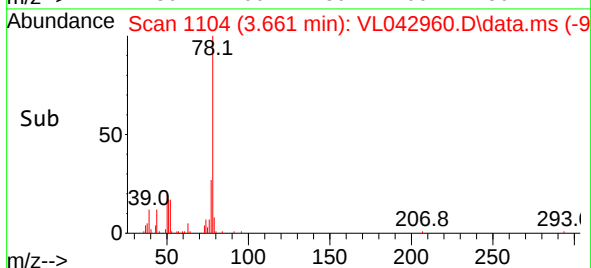
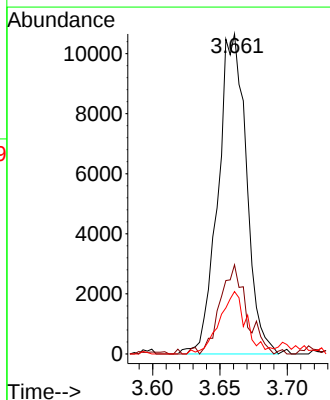
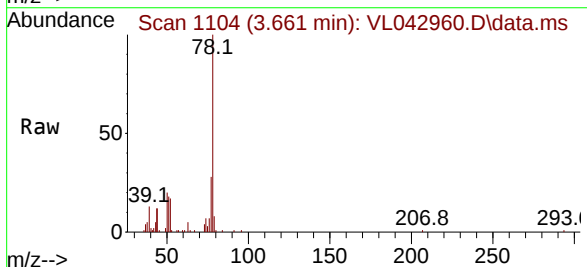
Manual Integrations
APPROVED

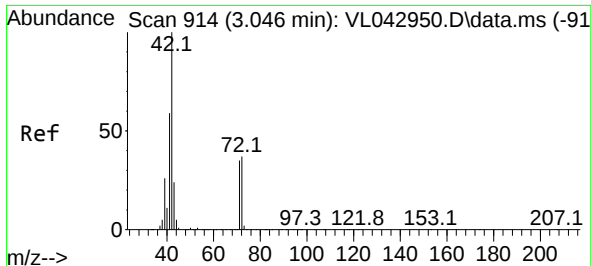
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#36
Benzene
Concen: 0.344 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.010 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

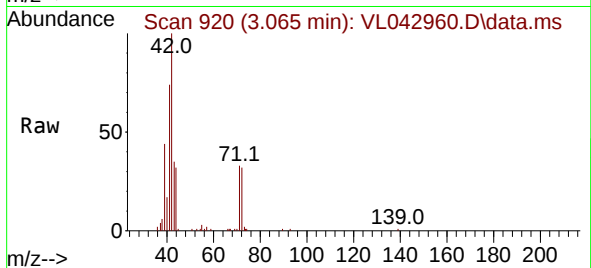
Tgt Ion: 78 Resp: 15599
Ion Ratio Lower Upper
78 100
77 27.0 17.8 26.6#
50 19.5 15.0 22.4





#41
Tetrahydrofuran
Concen: 0.524 ppbv m
RT: 3.065 min Scan# 914
Delta R.T. 0.019 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

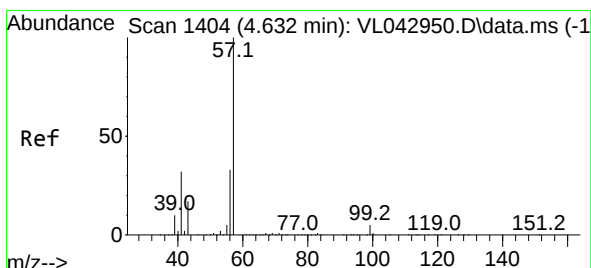
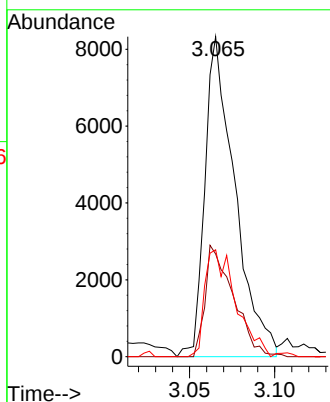
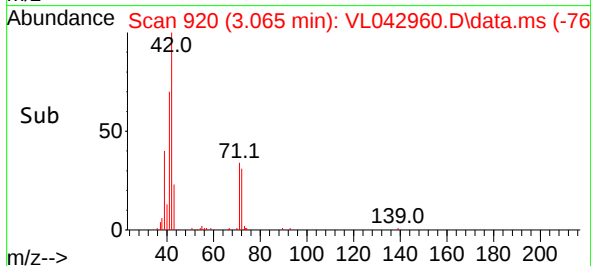
Instrument :
MSVOA_L
ClientSampleId :
SV1



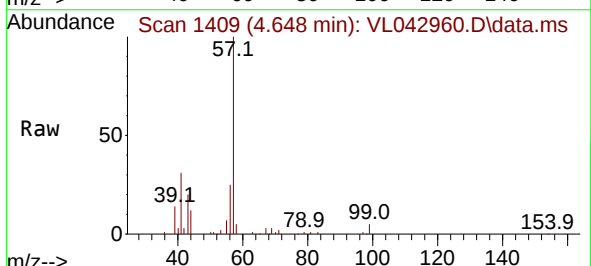
Tgt Ion: 42 Resp: 10180
Ion Ratio Lower Upper
42 100
72 32.8 30.0 45.0
71 35.1 28.8 43.2

Manual Integrations
APPROVED

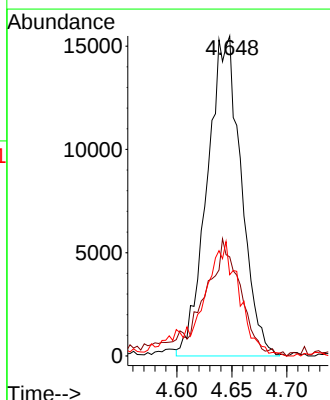
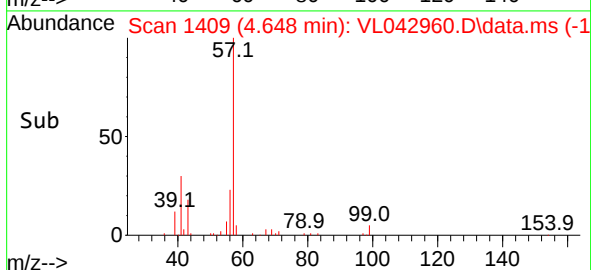
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

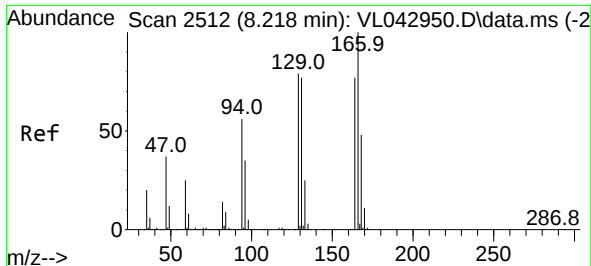


#44
2,2,4-Trimethylpentane
Concen: 0.425 ppbv m
RT: 4.648 min Scan# 1409
Delta R.T. 0.016 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53



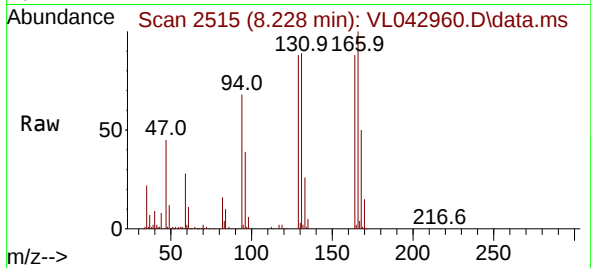
Tgt Ion: 57 Resp: 33245
Ion Ratio Lower Upper
57 100
41 38.3 25.5 38.3
56 41.4 25.8 38.8#





#52
Tetrachloroethene
Concen: 1.422 ppbv
RT: 8.228 min Scan# 2116
Delta R.T. 0.010 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

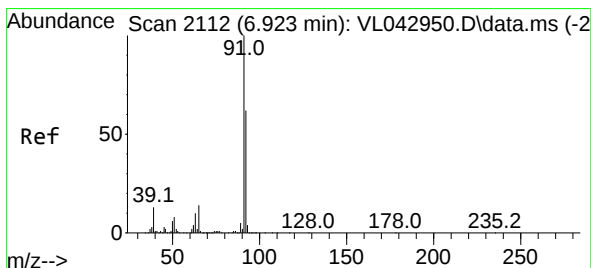
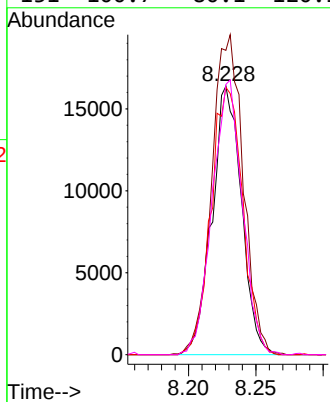
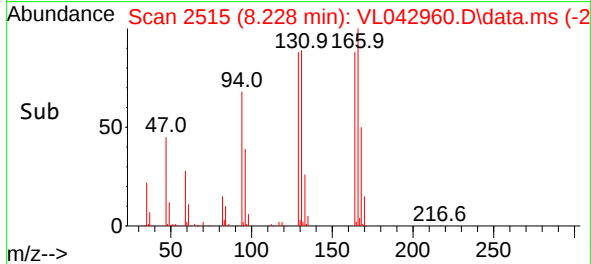
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 2492
Ion Ratio Lower Upper
164 100
166 113.0 103.5 155.3
129 99.6 82.2 123.4
131 100.7 80.1 120.1

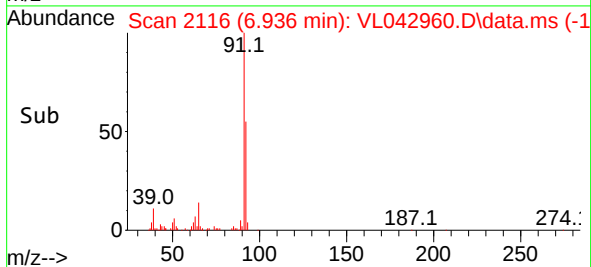
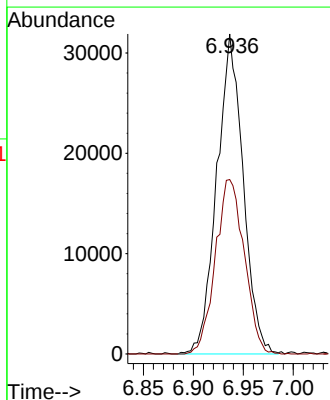
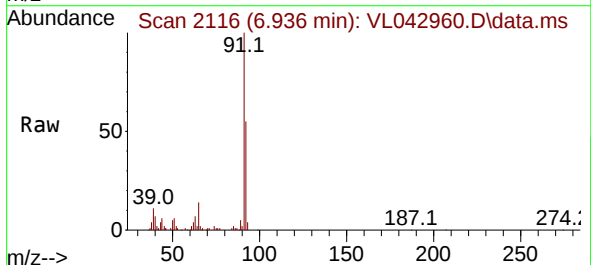
Manual Integrations
APPROVED

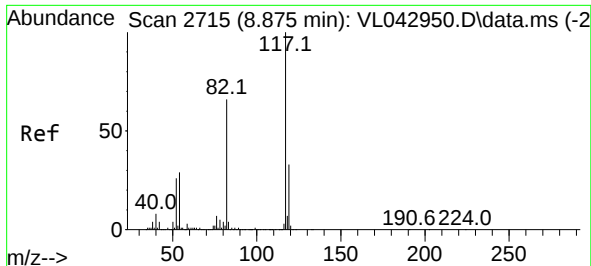
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#53
Toluene
Concen: 1.090 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.013 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

Tgt Ion: 91 Resp: 58424
Ion Ratio Lower Upper
91 100
92 59.8 48.2 72.2





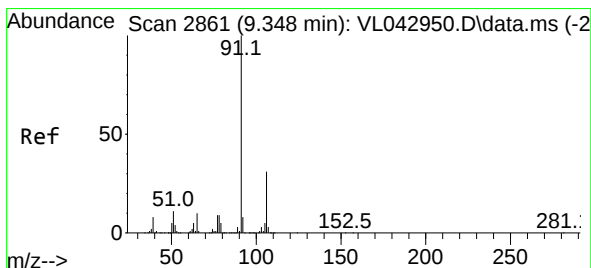
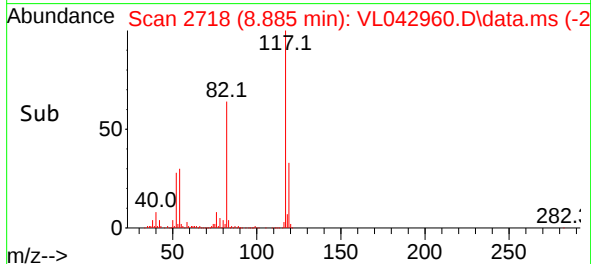
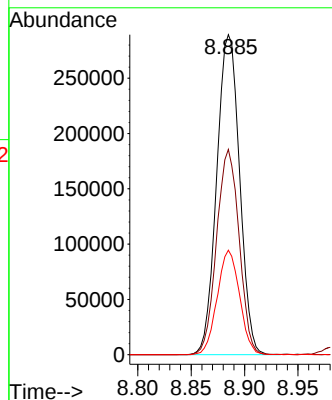
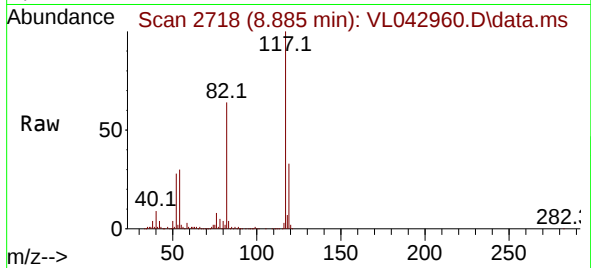
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2715
Delta R.T. 0.010 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 117 Resp: 431460
Ion Ratio Lower Upper
117 100
82 63.1 52.8 79.2
119 32.1 26.5 39.7

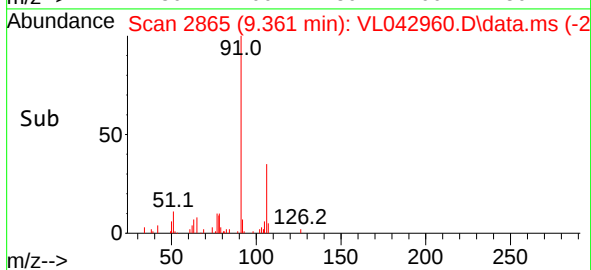
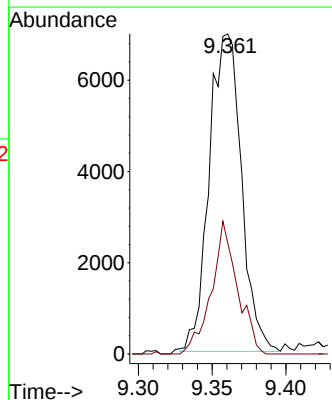
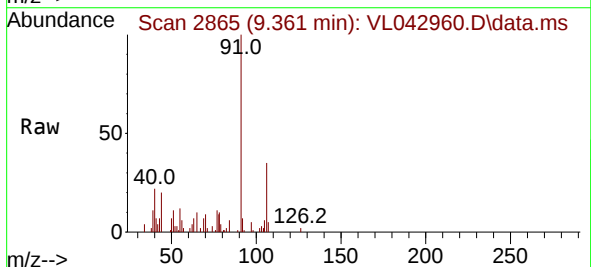
Manual Integrations
APPROVED

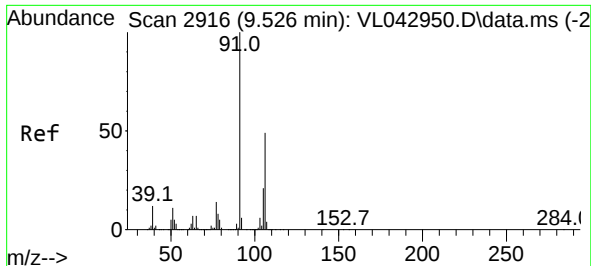
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#58
Ethyl Benzene
Concen: 0.149 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.013 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

Tgt Ion: 91 Resp: 10574
Ion Ratio Lower Upper
91 100
106 35.0 24.6 37.0





#59

m/p-Xylene

Concen: 0.435 ppbv

RT: 9.535 min Scan# 2916

Delta R.T. 0.010 min

Lab File: VL042960.D

Acq: 22 Sep 2025 16:53

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 2428

Ion Ratio Lower Upper

91 100

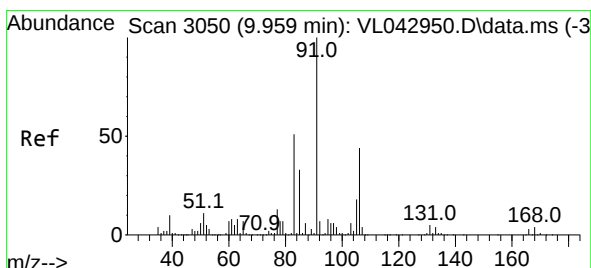
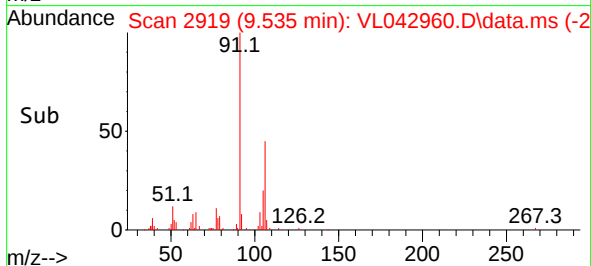
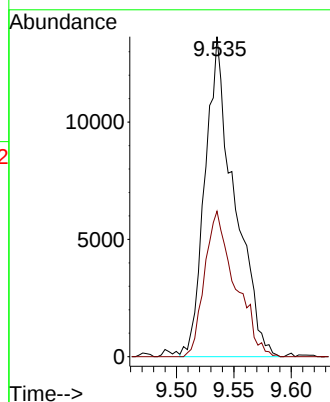
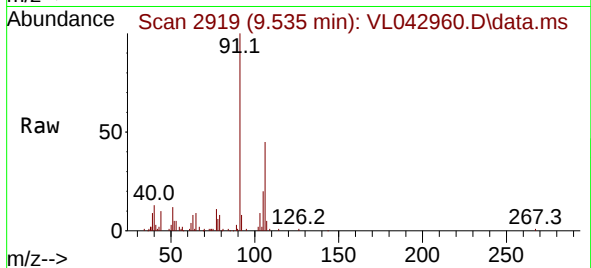
106 47.5 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#60

o-Xylene

Concen: 0.185 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.006 min

Lab File: VL042960.D

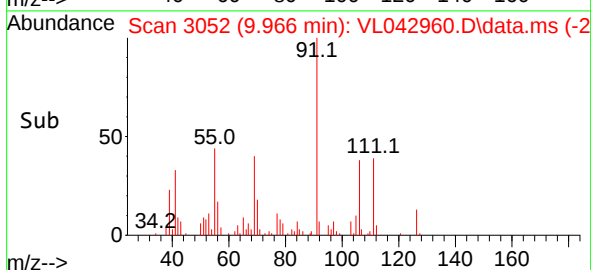
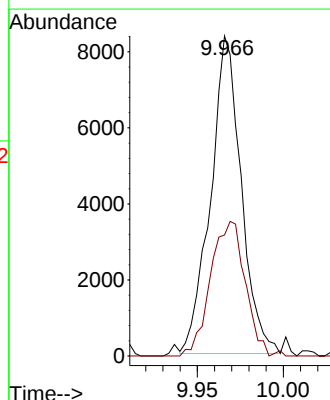
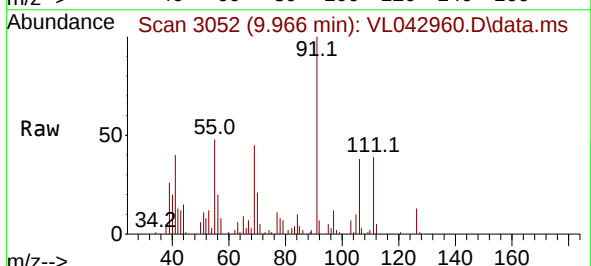
Acq: 22 Sep 2025 16:53

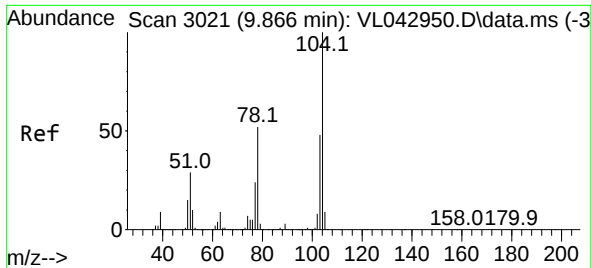
Tgt Ion: 91 Resp: 10347

Ion Ratio Lower Upper

91 100

106 48.0 22.4 67.0





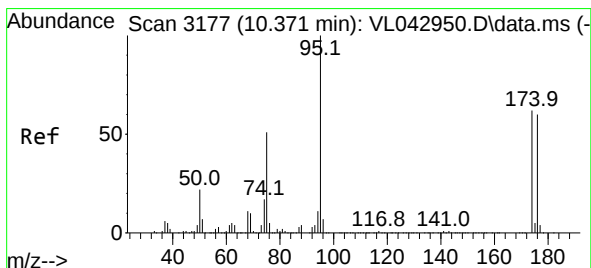
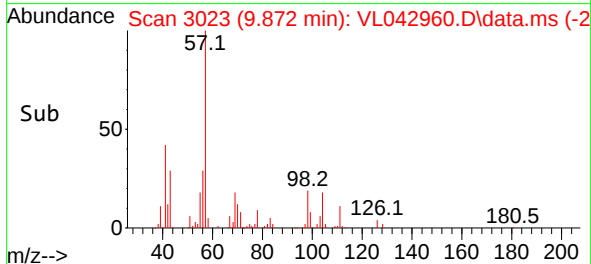
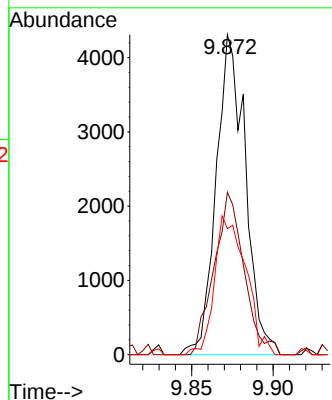
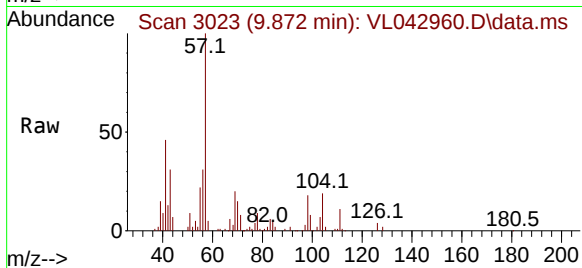
#61
Styrene
Concen: 0.203 ppbv
RT: 9.872 min Scan# 3021
Delta R.T. 0.006 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:104 Resp: 5354
Ion Ratio Lower Upper
104 100
78 52.2 39.9 59.9
103 46.5 36.9 55.3

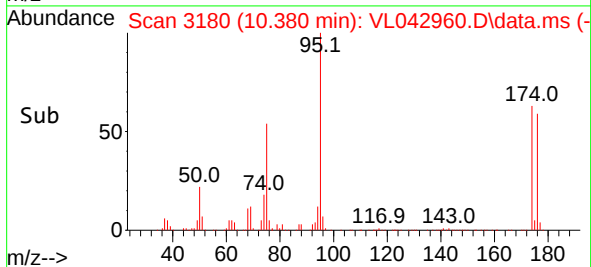
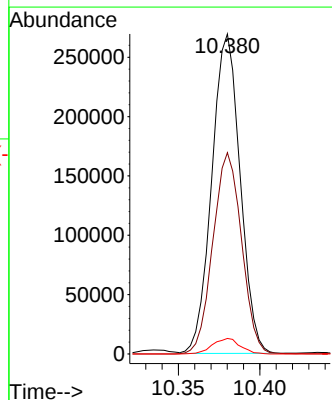
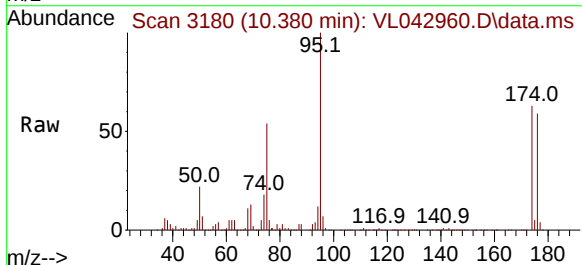
Manual Integrations
APPROVED

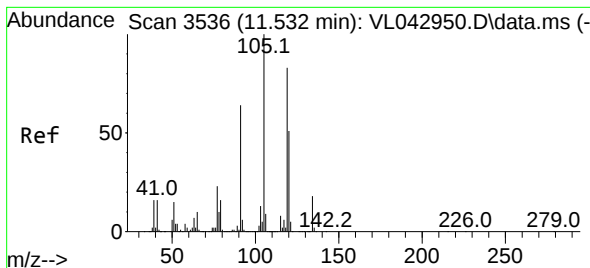
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.092 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

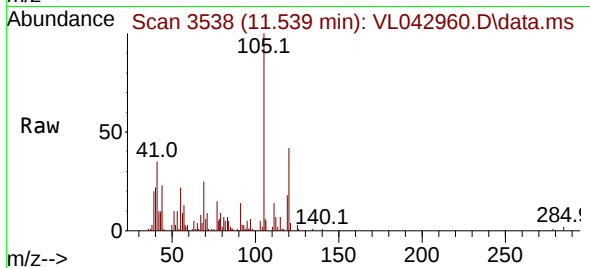
Tgt Ion: 95 Resp: 325029
Ion Ratio Lower Upper
95 100
174 63.7 51.4 77.2
175 4.8 4.0 6.0





#74
1,2,4-Trimethylbenzene
Concen: 0.131 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.006 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53

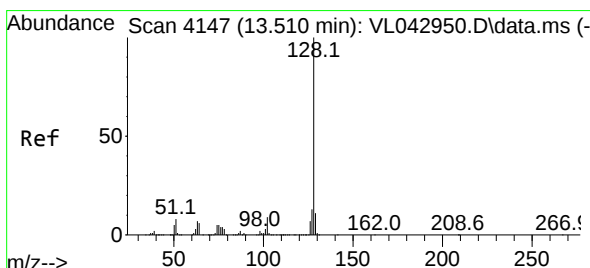
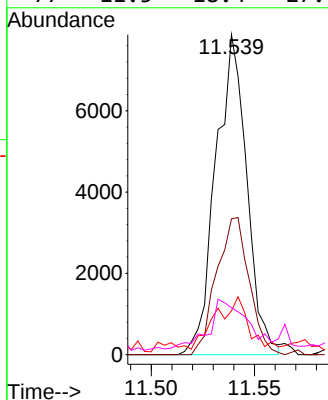
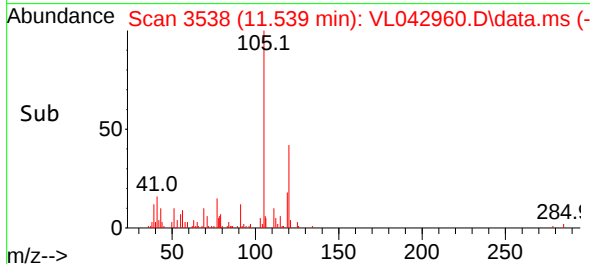
Instrument :
MSVOA_L
ClientSampleId :
SV1



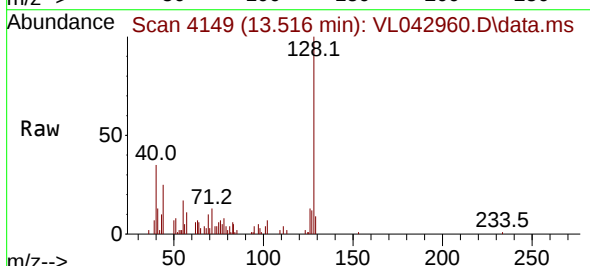
Tgt Ion:105 Resp: 821
Ion Ratio Lower Upper
105 100
120 42.4 40.9 61.3
91 11.3 51.2 76.8
77 11.5 18.4 27.6#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#79
Naphthalene
Concen: 0.101 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.006 min
Lab File: VL042960.D
Acq: 22 Sep 2025 16:53



Tgt Ion:128 Resp: 5583
Ion Ratio Lower Upper
128 100
127 12.0 10.6 15.8
129 8.9 9.0 13.6#

