

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070825\
 Data File : VL042709.D
 Acq On : 08 Jul 2025 11:44
 Operator : SY/MD
 Sample : Q2518-02 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/09/2025
 Supervised By :Mahesh Dadoda 07/09/2025

Quant Time: Jul 09 01:27:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:50:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	120496	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	286803	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	277031	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	216919	10.180	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.476	51	10351	0.549	ppbv	99
9) Propene	1.486	41	15911	2.254	ppbv	89
10) Heptane	4.988	43	10007m	0.522	ppbv	
13) Ethanol	1.725	45	6214	9.124	ppbv #	37
15) Acetone	1.839	43	91175	7.629	ppbv #	86
20) Methylene Chloride	2.065	84	1029	0.225	ppbv #	86
26) Hexane	2.832	57	49601	3.289	ppbv #	38
27) Carbon Disulfide	2.153	76	5427	0.441	ppbv #	1
29) Chloroform	2.855	83	2235m	0.098	ppbv	
30) Cyclohexane	3.858	84	1229m	0.108	ppbv	
34) 2-Butanone	2.560	43	322221	14.195	ppbv	99
36) Benzene	3.664	78	10434	0.361	ppbv #	90
38) Trichloroethene	4.554	130	7695m	0.616	ppbv	
51) 2-Hexanone	7.448	43	28173	1.457	ppbv #	72
52) Tetrachloroethene	8.231	164	102532	10.612	ppbv	95
53) Toluene	6.943	91	15039	0.557	ppbv	99
58) Ethyl Benzene	9.357	91	4341m	0.108	ppbv	
59) m/p-Xylene	9.532	91	14268m	0.425	ppbv	
60) o-Xylene	9.969	91	7815m	0.237	ppbv	
74) 1,2,4-Trimethylbenzene	11.539	105	9436	0.244	ppbv #	61

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

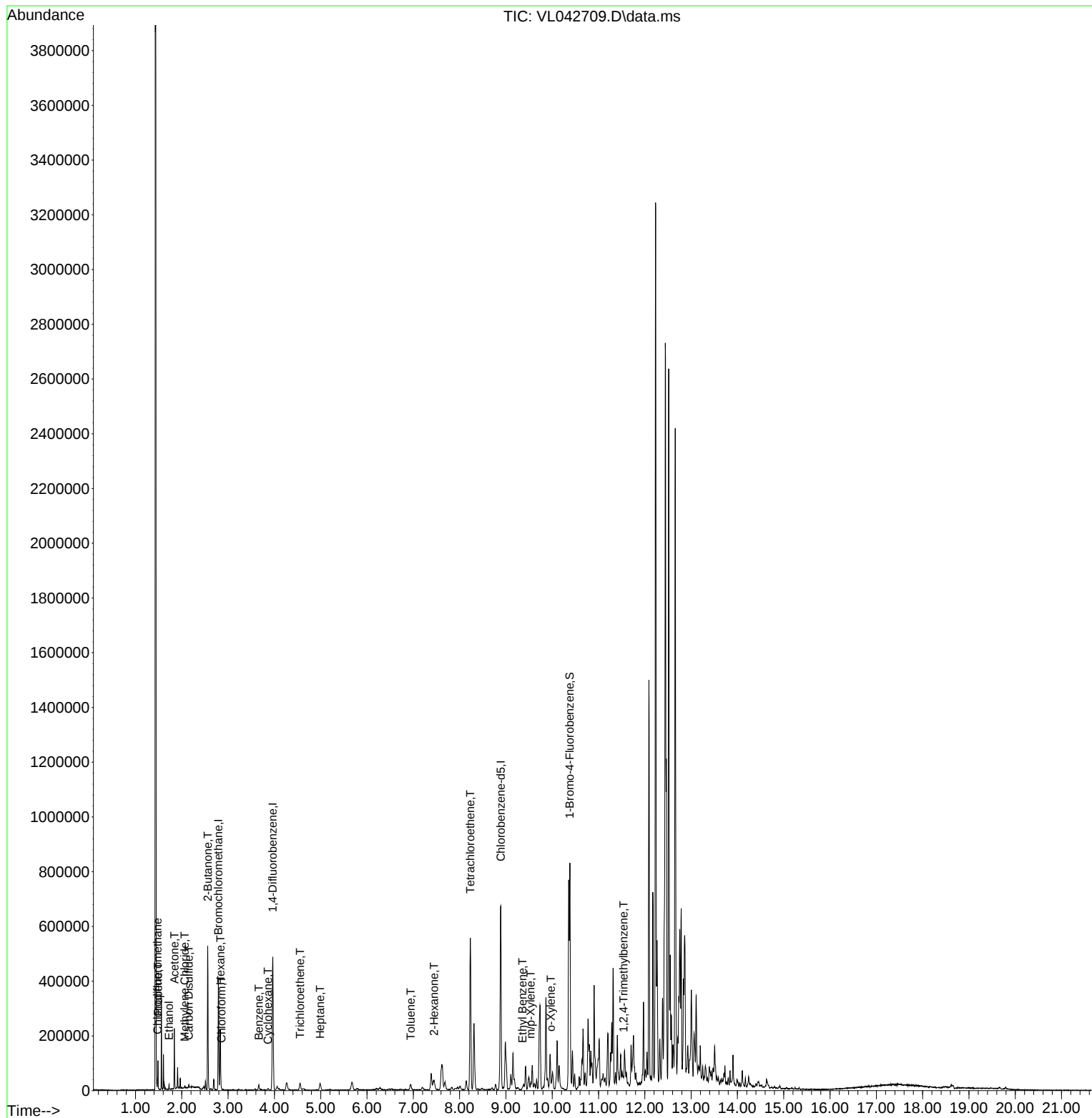
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070825\
Data File : VL042709.D
Acq On : 08 Jul 2025 11:44
Operator : SY/MD
Sample : Q2518-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

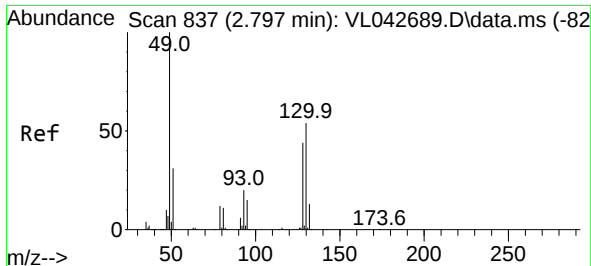
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Jul 09 01:27:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

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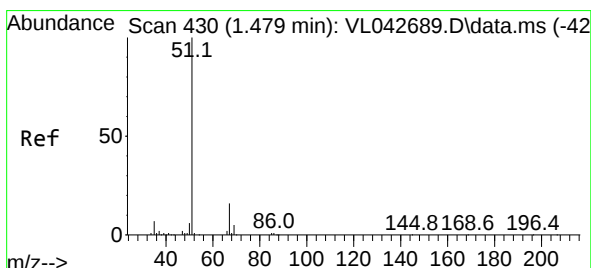
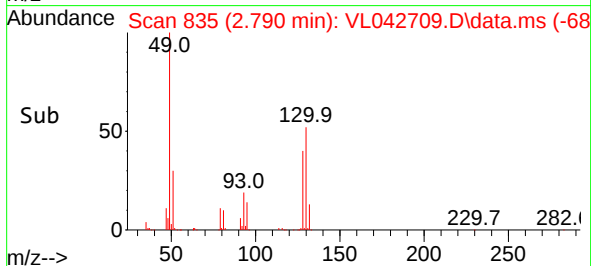
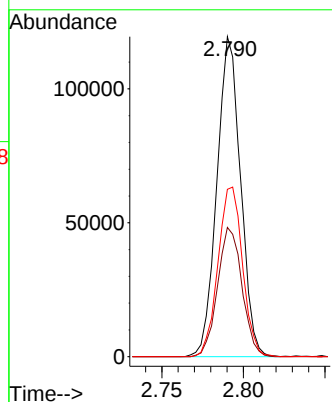
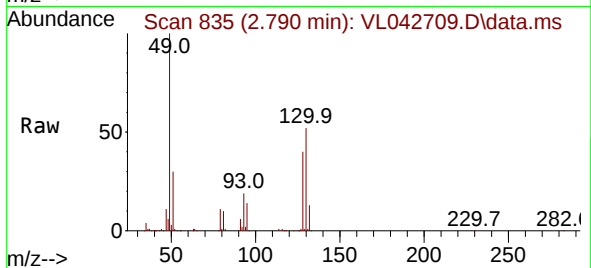
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. -0.007 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 120490
Ion Ratio Lower Upper
49 100
128 41.6 21.4 64.2
130 55.0 28.0 84.0

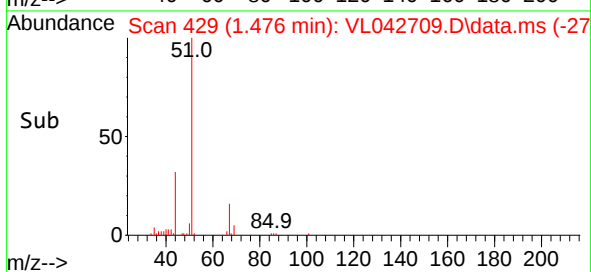
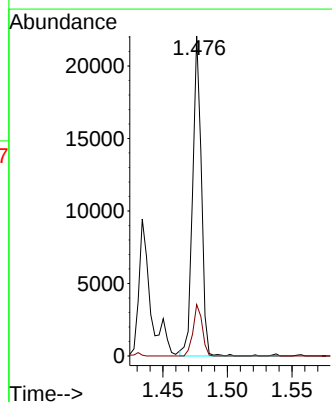
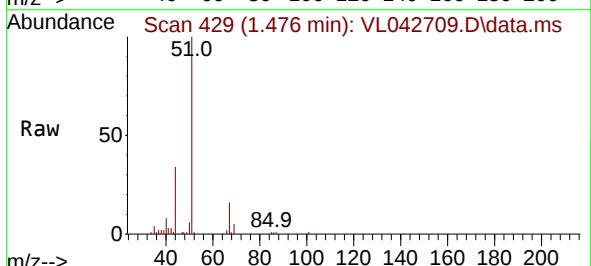
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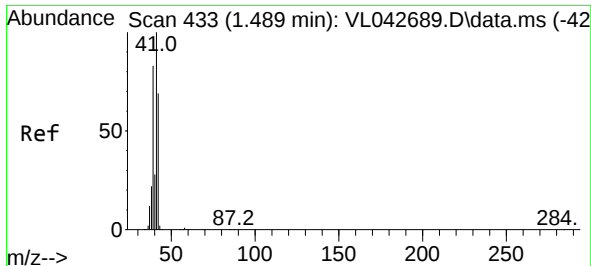
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#3
Chlorodifluoromethane
Concen: 0.549 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

Tgt Ion: 51 Resp: 10351
Ion Ratio Lower Upper
51 100
67 16.9 13.1 19.7





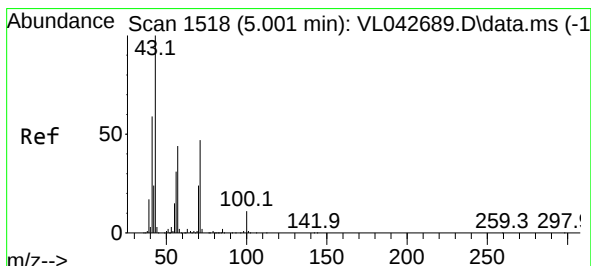
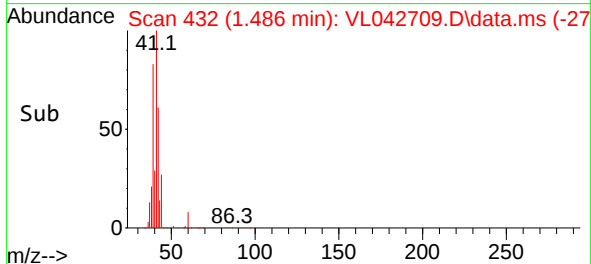
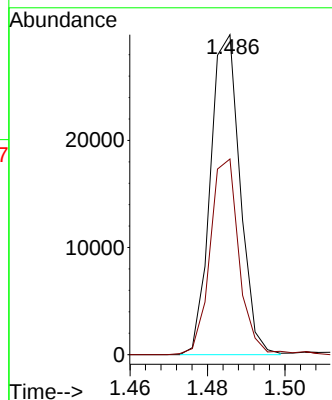
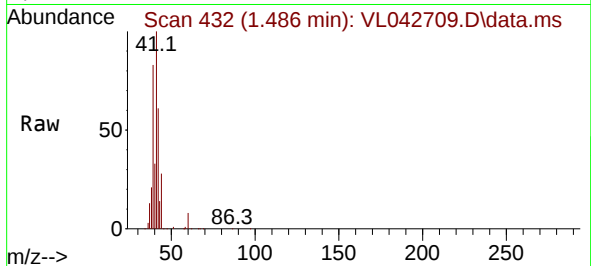
#9
 Propene
 Concen: 2.254 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042709.D
 Acq: 08 Jul 2025 11:44

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tgt Ion: 41 Resp: 1591
 Ion Ratio Lower Upper
 41 100
 42 60.3 55.6 83.4

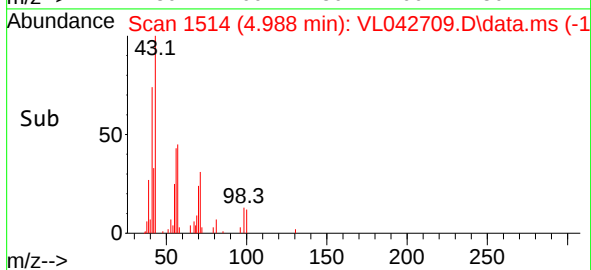
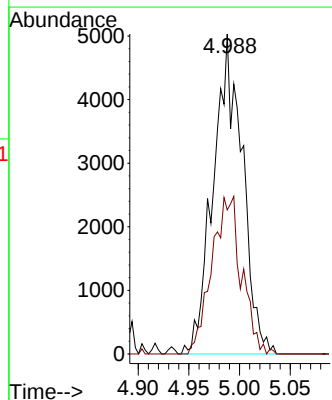
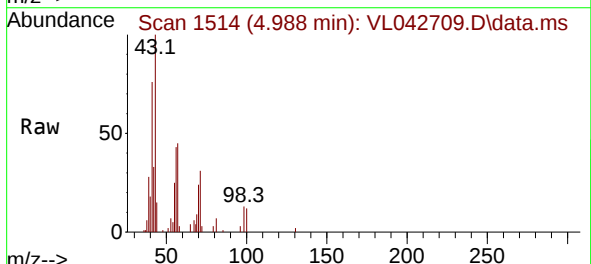
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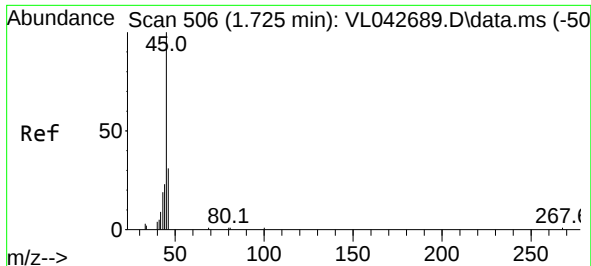
Reviewed By :Semsettin Yesilyurt 07/09/2025
 Supervised By :Mahesh Dadoda 07/09/2025



#10
 Heptane
 Concen: 0.522 ppbv m
 RT: 4.988 min Scan# 1514
 Delta R.T. -0.013 min
 Lab File: VL042709.D
 Acq: 08 Jul 2025 11:44

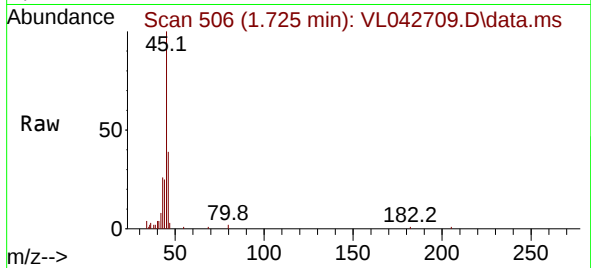
Tgt Ion: 43 Resp: 10007
 Ion Ratio Lower Upper
 43 100
 57 0.0 37.4 56.0#





#13
Ethanol
Concen: 9.124 ppbv
RT: 1.725 min Scan# 506
Delta R.T. -0.000 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

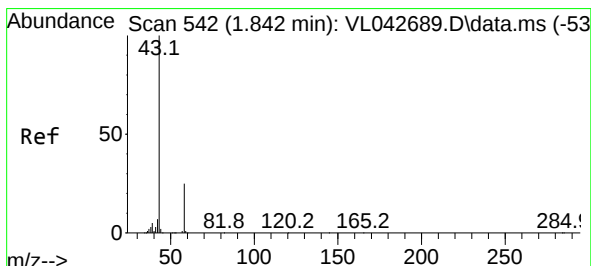
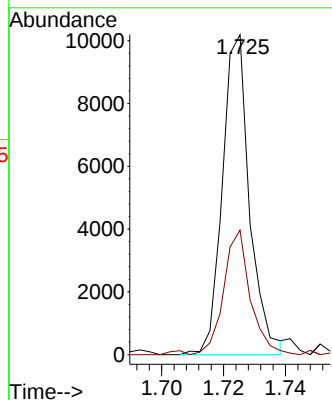
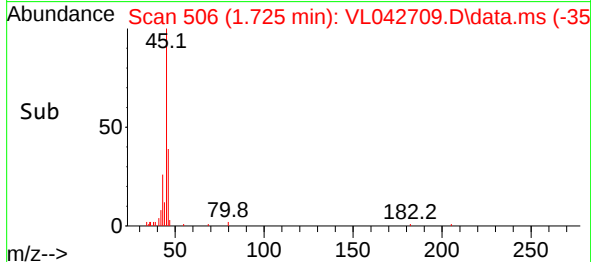
Instrument :
MSVOA_L
ClientSampleId :
SV2



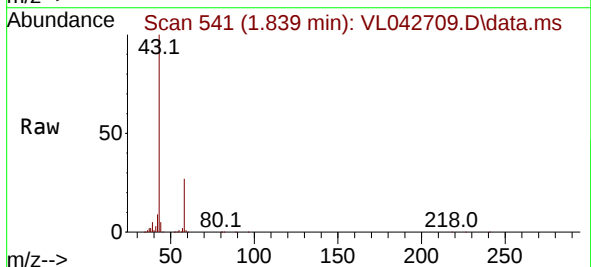
Tgt Ion: 45 Resp: 6214
Ion Ratio Lower Upper
45 100
46 0.0 15.2 60.8

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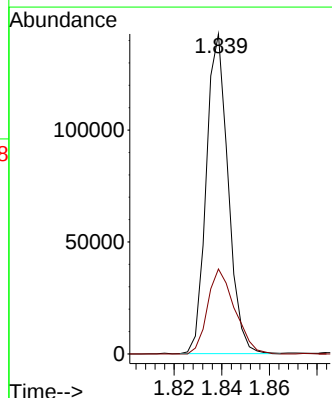
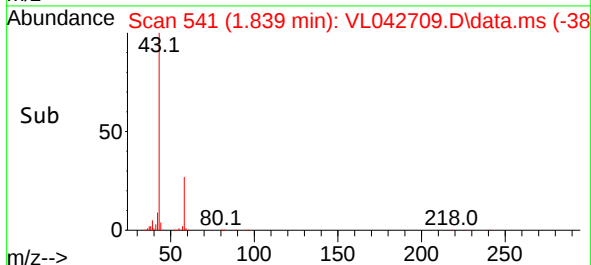
Reviewed By :Semsettin Yesilyurt 07/09/2025
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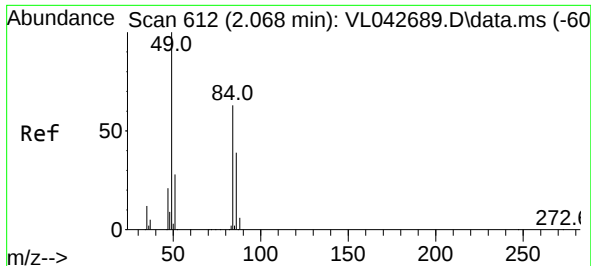


#15
Acetone
Concen: 7.629 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44



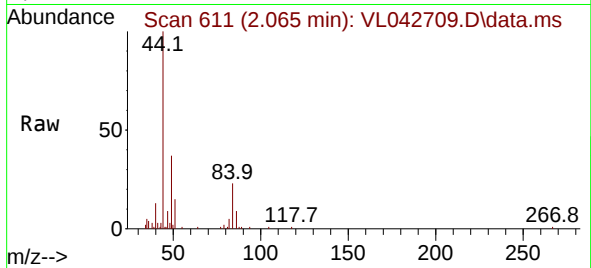
Tgt Ion: 43 Resp: 91175
Ion Ratio Lower Upper
43 100
58 33.1 20.6 31.0





#20
Methylene Chloride
Concen: 0.225 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

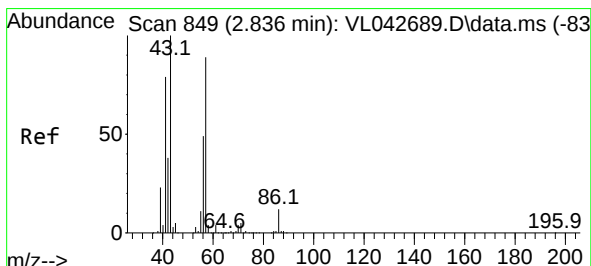
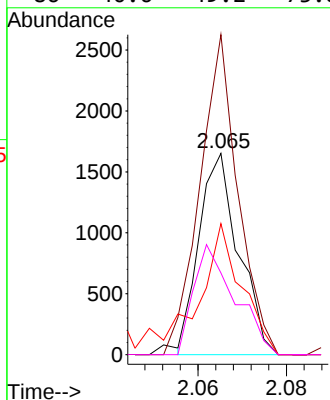
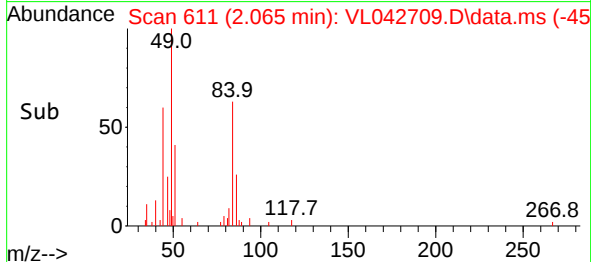
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 84 Resp: 1029
Ion Ratio Lower Upper
84 100
49 167.6 128.6 193.0
51 65.1 37.4 56.2
86 40.6 49.2 73.8

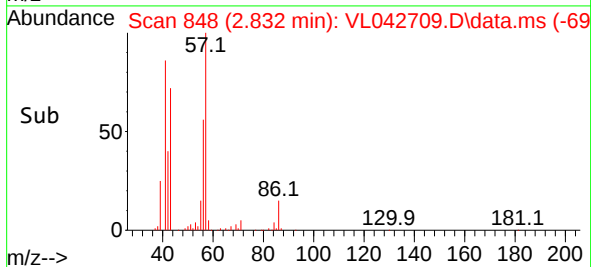
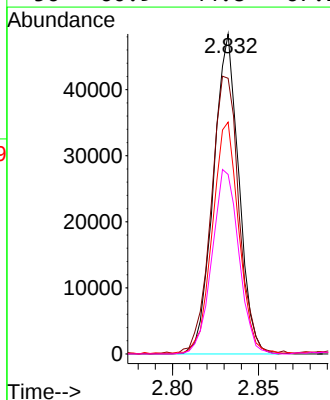
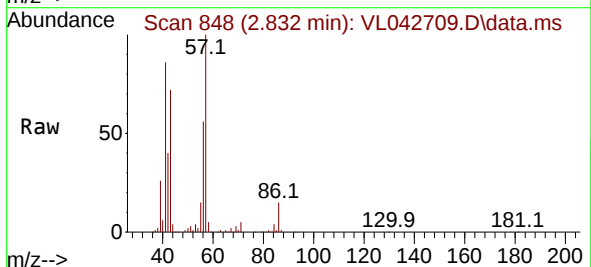
Manual Integrations
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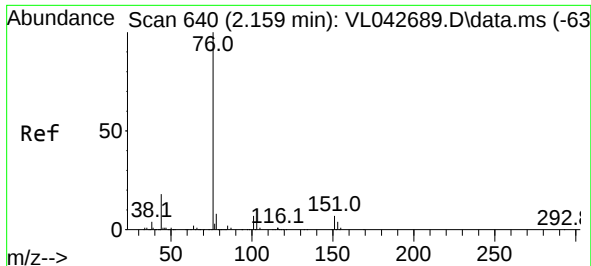
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#26
Hexane
Concen: 3.289 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.003 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

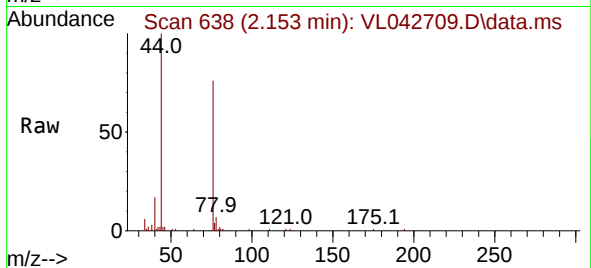
Tgt Ion: 57 Resp: 49601
Ion Ratio Lower Upper
57 100
41 97.9 73.7 110.5
43 75.3 190.6 285.8
56 60.9 44.8 67.2





#27
Carbon Disulfide
Concen: 0.441 ppbv
RT: 2.153 min Scan# 61
Delta R.T. -0.007 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

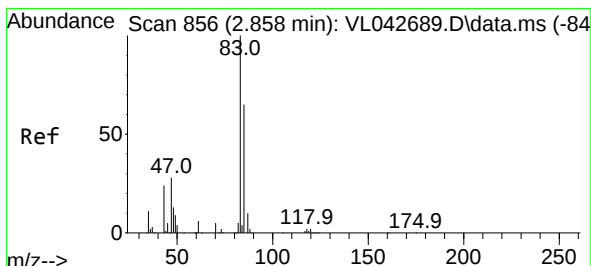
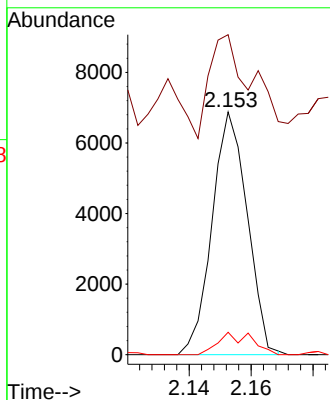
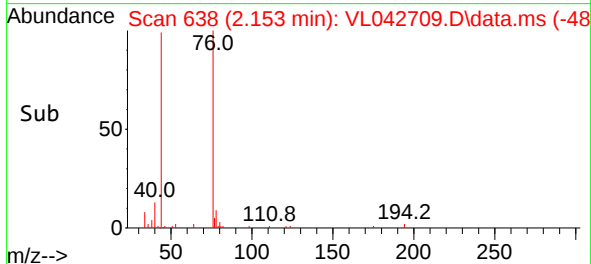
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 76 Resp: 542
Ion Ratio Lower Upper
76 100
44 344.4 15.6 23.4
78 9.8 9.2 13.8

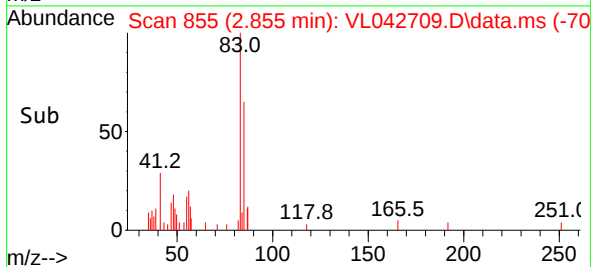
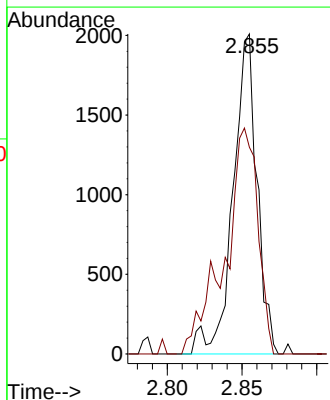
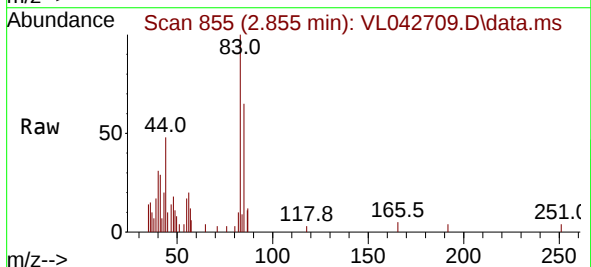
Manual Integrations
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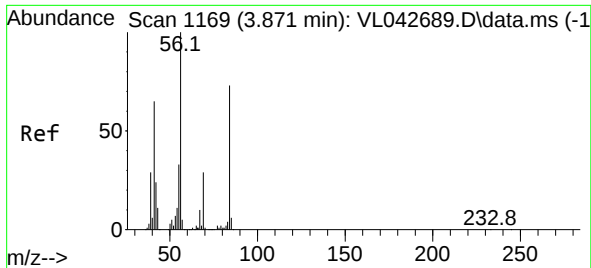
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#29
Chloroform
Concen: 0.098 ppbv m
RT: 2.855 min Scan# 855
Delta R.T. -0.003 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

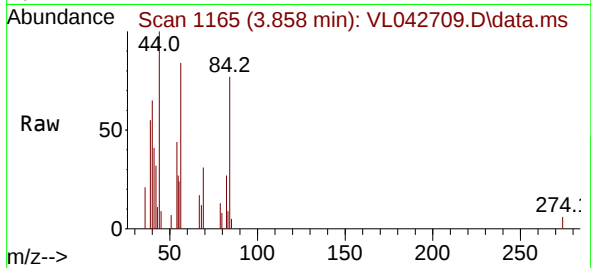
Tgt Ion: 83 Resp: 2235
Ion Ratio Lower Upper
83 100
85 64.6 52.4 78.6





#30
Cyclohexane
Concen: 0.108 ppbv m
RT: 3.858 min Scan# 1165
Delta R.T. -0.013 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

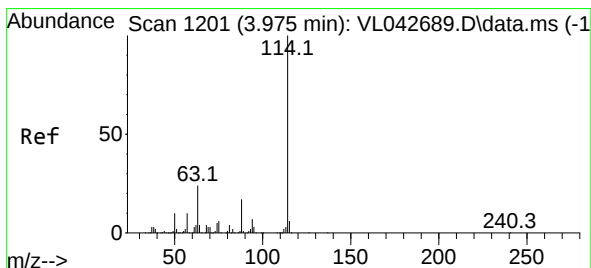
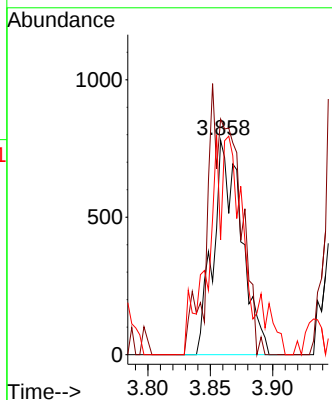
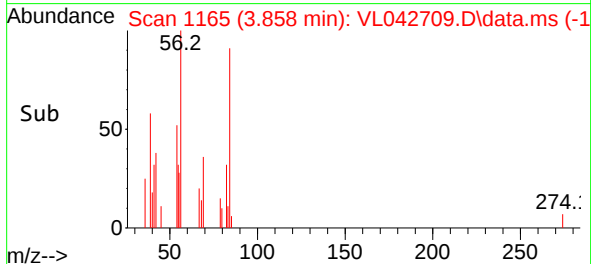
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 84 Resp: 1229
Ion Ratio Lower Upper
84 100
56 0.0 110.4 165.6
41 129.4 71.4 107.0

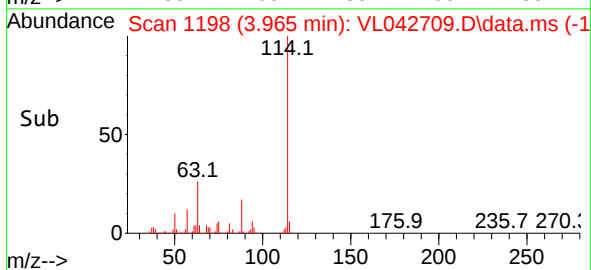
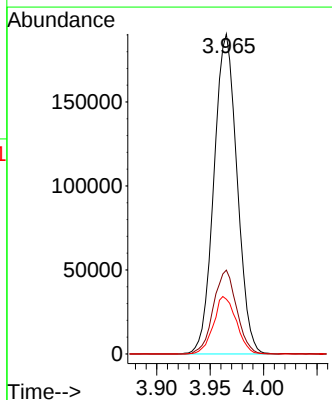
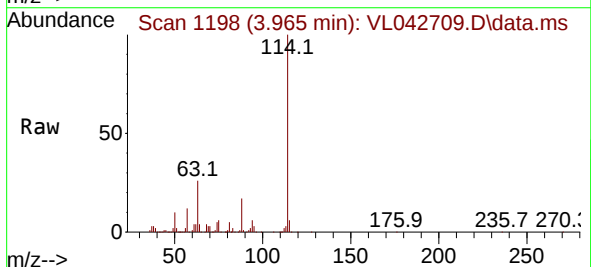
Manual Integrations
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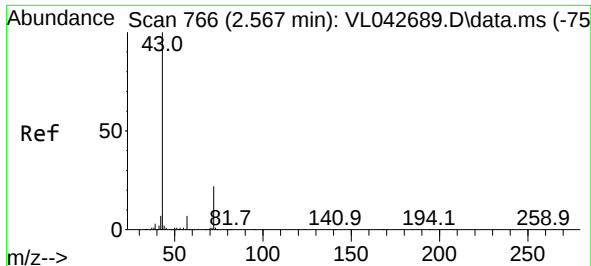
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.010 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

Tgt Ion:114 Resp: 286803
Ion Ratio Lower Upper
114 100
63 26.4 20.4 30.6
88 17.7 14.2 21.2





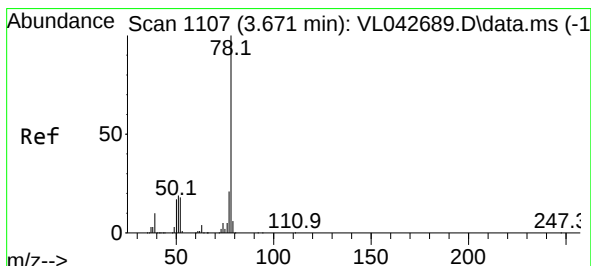
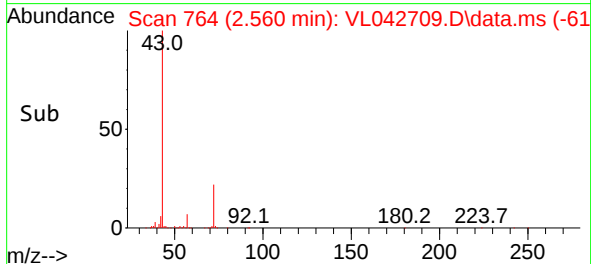
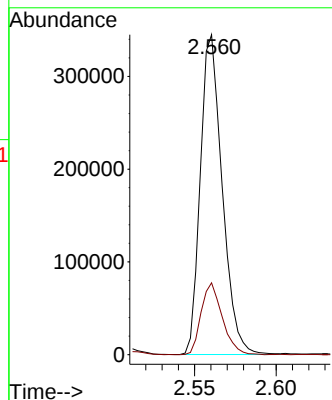
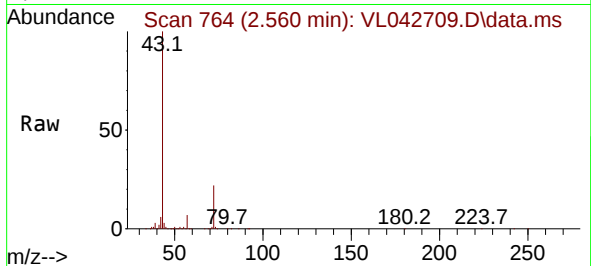
#34
2-Butanone
Concen: 14.195 ppbv
RT: 2.560 min Scan# 71
Delta R.T. -0.007 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 32222
Ion Ratio Lower Upper
43 100
72 21.7 17.1 25.7

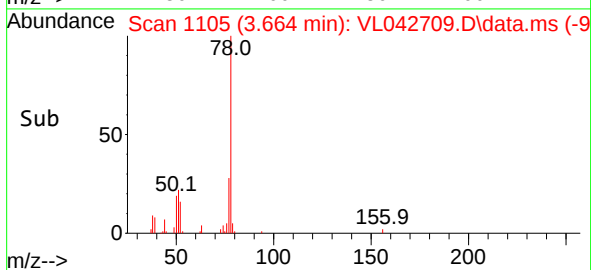
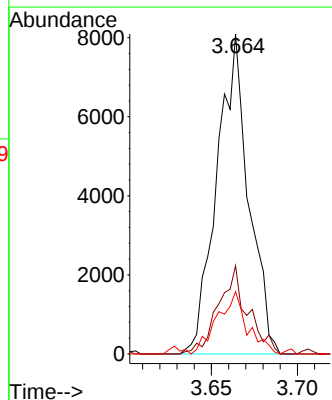
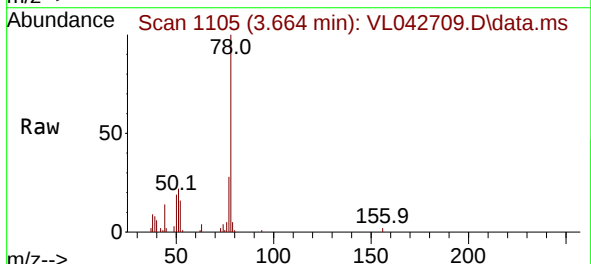
Manual Integrations
APPROVED

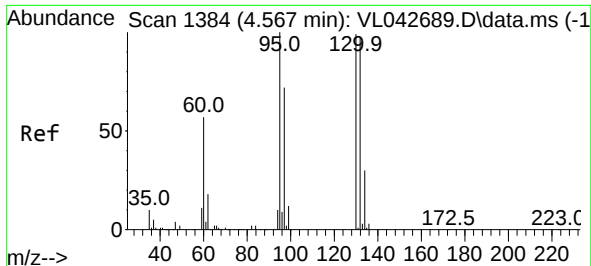
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#36
Benzene
Concen: 0.361 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. -0.007 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

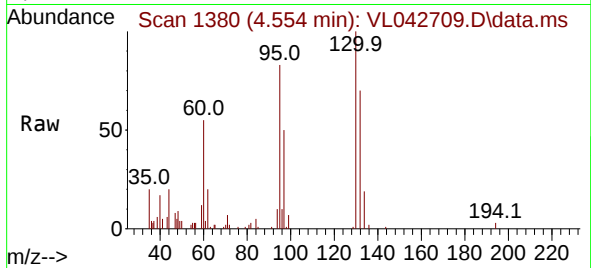
Tgt Ion: 78 Resp: 10434
Ion Ratio Lower Upper
78 100
77 27.5 17.0 25.4#
50 19.4 13.7 20.5





#38
Trichloroethene
Concen: 0.616 ppbv m
RT: 4.554 min Scan# 1380
Delta R.T. -0.013 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

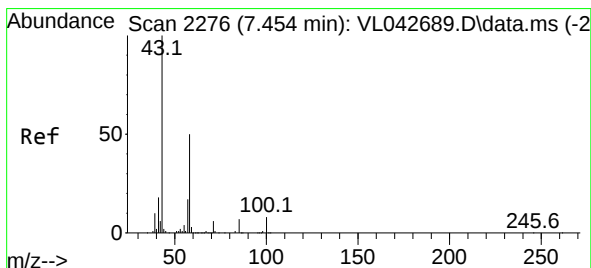
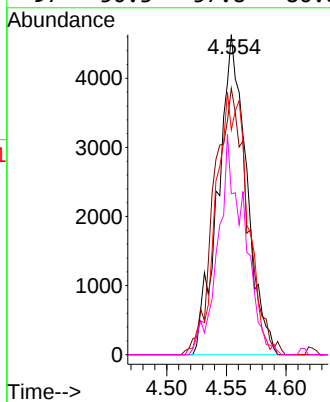
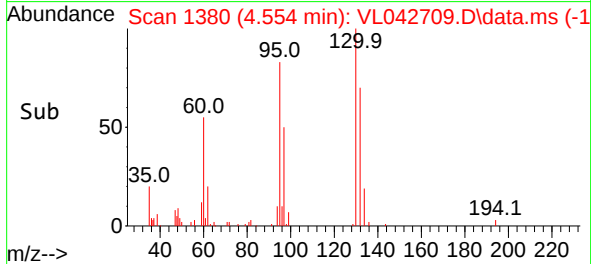
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:130 Resp: 769
Ion Ratio Lower Upper
130 100
95 83.2 81.1 121.7
132 70.3 77.9 116.9
97 50.3 57.8 86.8#

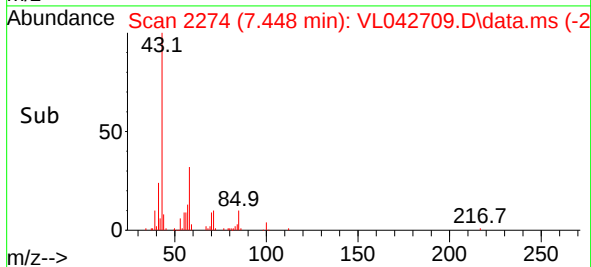
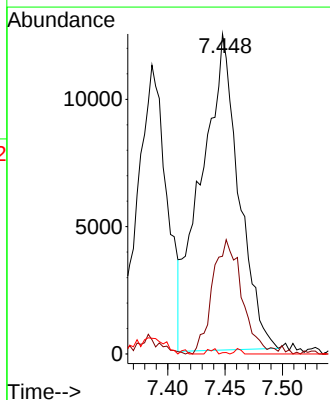
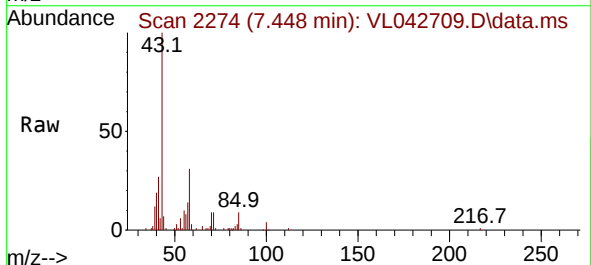
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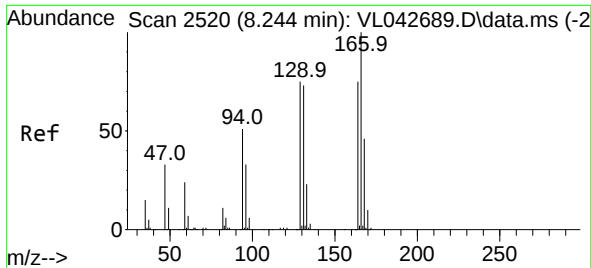
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#51
2-Hexanone
Concen: 1.457 ppbv
RT: 7.448 min Scan# 2274
Delta R.T. -0.007 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

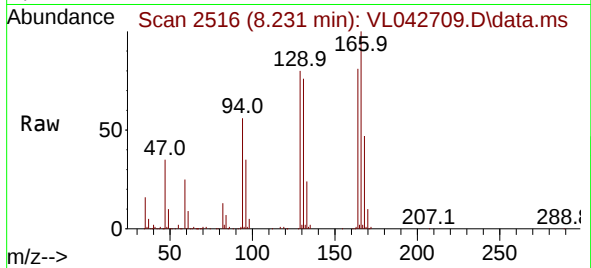
Tgt Ion: 43 Resp: 28173
Ion Ratio Lower Upper
43 100
58 29.2 38.6 57.8#
98 0.7 0.6 1.0





#52
Tetrachloroethene
Concen: 10.612 ppbv
RT: 8.231 min Scan# 2118
Delta R.T. -0.013 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

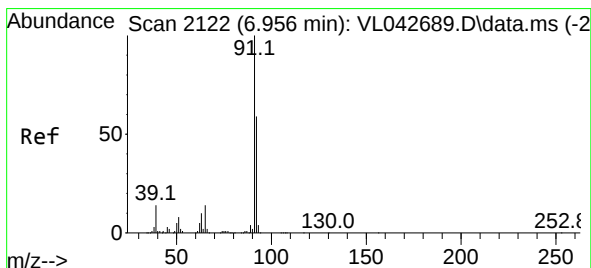
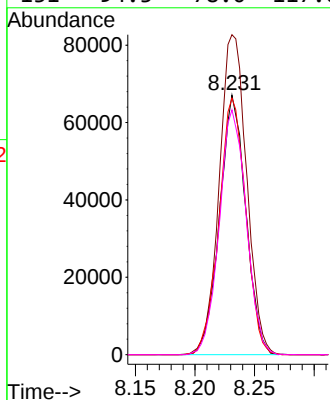
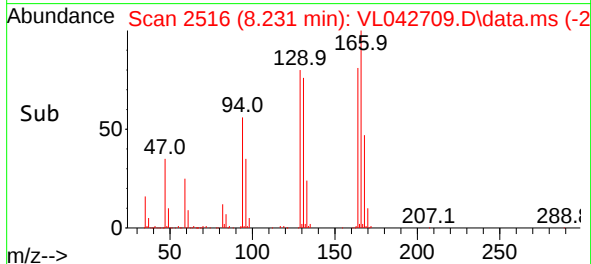
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:164 Resp: 10253
Ion Ratio Lower Upper
164 100
166 123.3 106.6 160.0
129 98.8 79.8 119.6
131 94.3 78.0 117.0

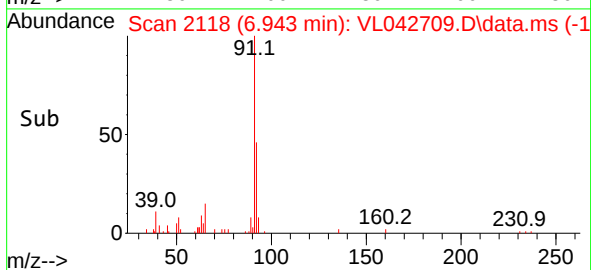
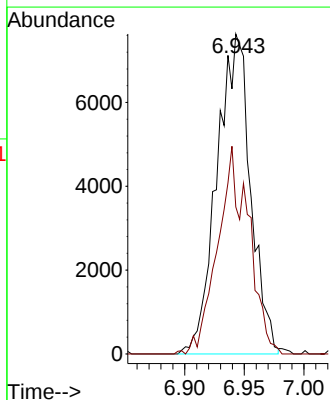
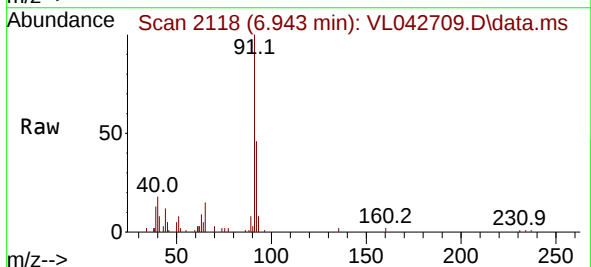
Manual Integrations
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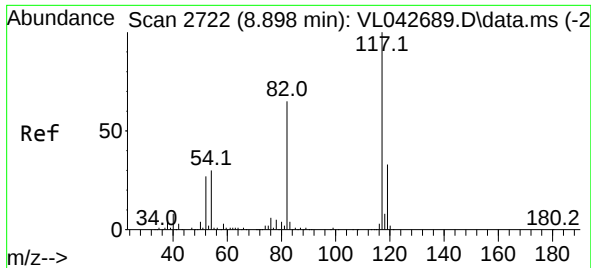
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#53
Toluene
Concen: 0.557 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. -0.013 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

Tgt Ion: 91 Resp: 15039
Ion Ratio Lower Upper
91 100
92 59.9 47.4 71.2





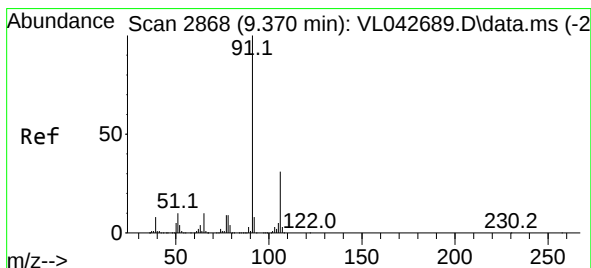
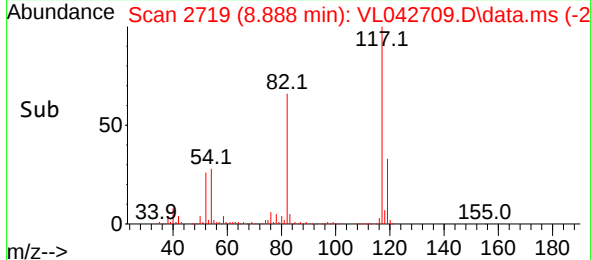
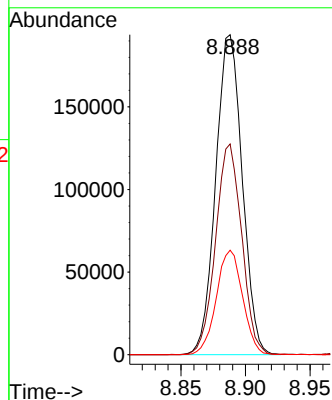
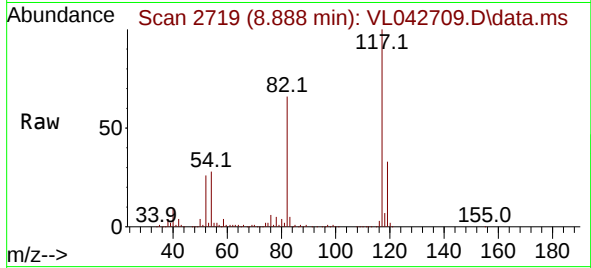
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. -0.010 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:117 Resp: 27703
Ion Ratio Lower Upper
117 100
82 65.0 53.4 80.2
119 32.4 26.6 39.8

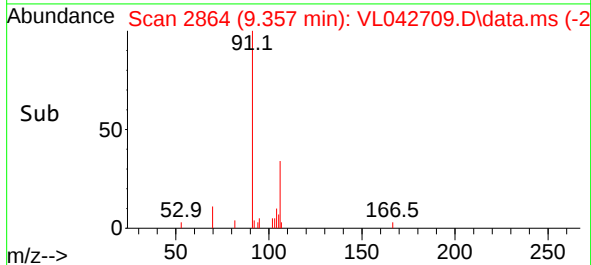
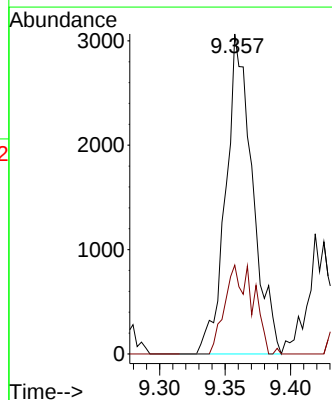
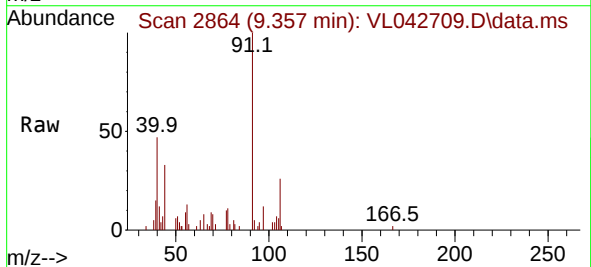
Manual Integrations
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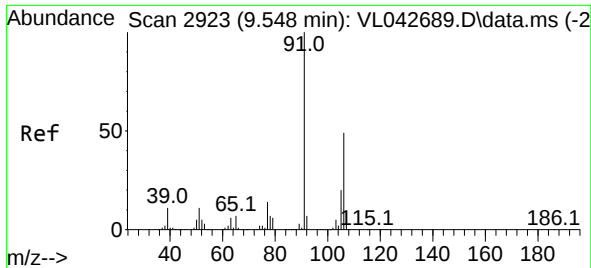
Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#58
Ethyl Benzene
Concen: 0.108 ppbv m
RT: 9.357 min Scan# 2864
Delta R.T. -0.013 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

Tgt Ion: 91 Resp: 4341
Ion Ratio Lower Upper
91 100
106 25.7 24.9 37.3





#59

m/p-Xylene

Concen: 0.425 ppbv m

RT: 9.532 min Scan# 2918

Delta R.T. -0.016 min

Lab File: VL042709.D

Acq: 08 Jul 2025 11:44

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 91 Resp: 1426

Ion Ratio Lower Upper

91 100

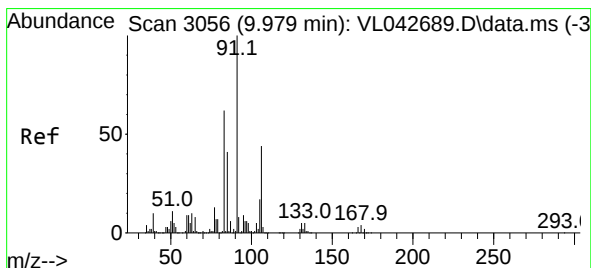
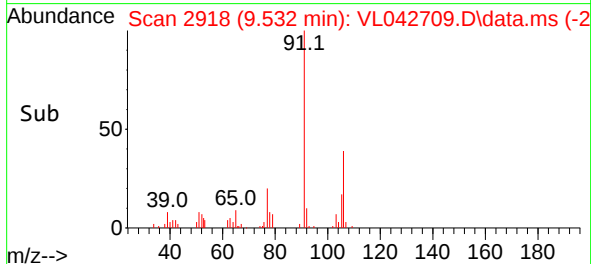
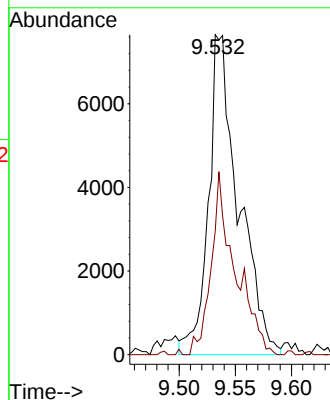
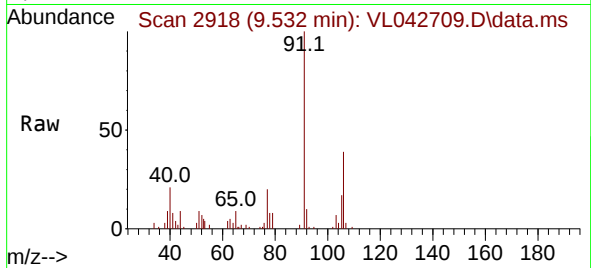
106 46.6 37.6 56.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/09/2025

Supervised By :Mahesh Dadoda 07/09/2025



#60

o-Xylene

Concen: 0.237 ppbv m

RT: 9.969 min Scan# 3053

Delta R.T. -0.010 min

Lab File: VL042709.D

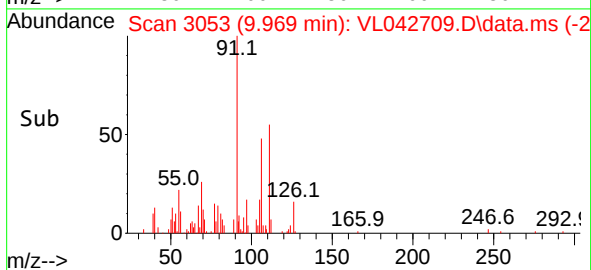
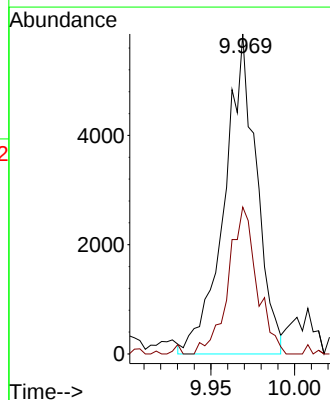
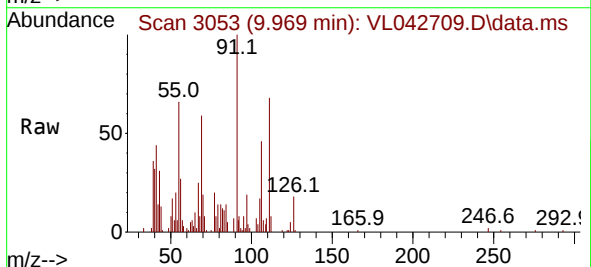
Acq: 08 Jul 2025 11:44

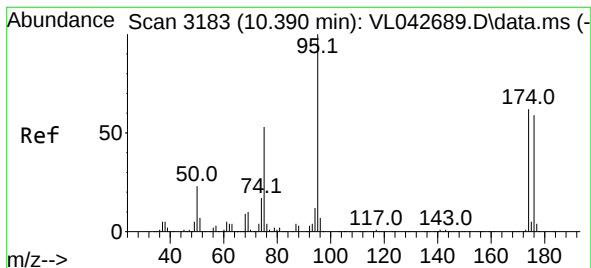
Tgt Ion: 91 Resp: 7815

Ion Ratio Lower Upper

91 100

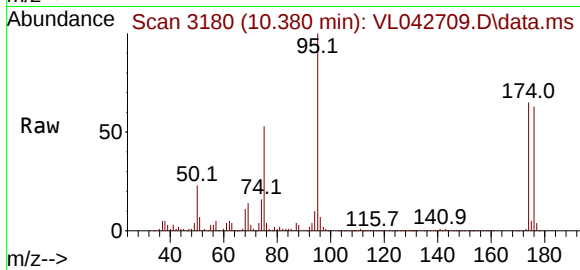
106 41.7 22.8 68.4





#68
1-Bromo-4-Fluorobenzene
Concen: 10.180 ppbv
RT: 10.380 min Scan# 3183
Delta R.T. -0.010 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44

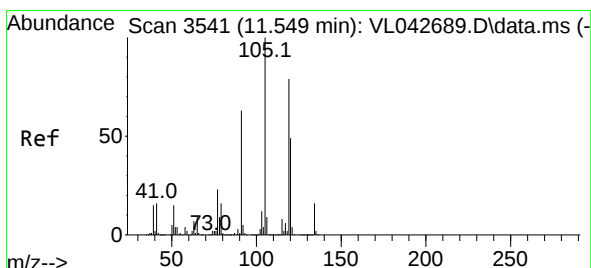
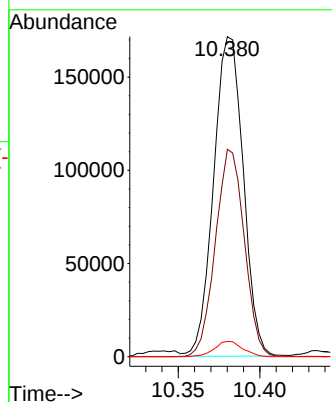
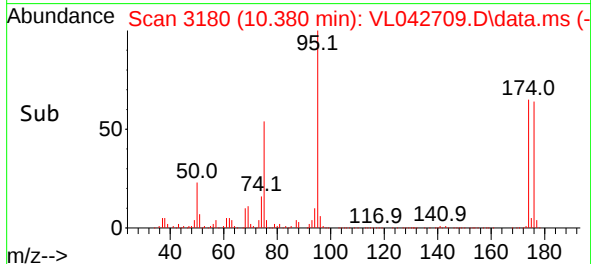
Instrument :
MSVOA_L
ClientSampleId :
SV2



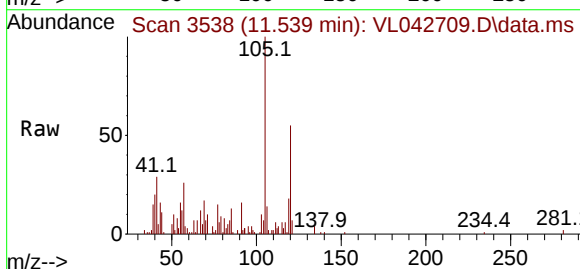
Tgt Ion: 95 Resp: 216919
Ion Ratio Lower Upper
95 100
174 63.3 51.2 76.8
175 4.6 3.8 5.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/09/2025
Supervised By :Mahesh Dadoda 07/09/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.244 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.010 min
Lab File: VL042709.D
Acq: 08 Jul 2025 11:44



Tgt Ion:105 Resp: 9436
Ion Ratio Lower Upper
105 100
120 54.4 39.6 59.4
91 10.2 51.0 76.6#
77 10.1 18.7 28.1#

