

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042743.D
 Acq On : 22 Jul 2025 23:15
 Operator : SY/MD
 Sample : Q2632-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 03:07:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

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

QLast Update : Wed Jul 23 02:51:39 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	109401	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	323808	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	284327	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	233470	10.160	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	7298	0.427	ppbv #	87
3) Chlorodifluoromethane	1.473	51	3866m	0.200	ppbv	
4) Chloromethane	1.531	50	3923	0.561	ppbv #	88
9) Propene	1.486	41	9456m	1.380	ppbv	
10) Heptane	4.969	43	2683m	0.141	ppbv	
11) Trichlorofluoromethane	1.874	101	3627m	0.206	ppbv	
13) Ethanol	1.719	45	46540	40.370	ppbv	94
15) Acetone	1.832	43	126418	6.901	ppbv	98
19) Isopropyl Alcohol	1.884	45	13308	1.371	ppbv #	1
20) Methylene Chloride	2.059	84	32808	5.698	ppbv	91
26) Hexane	2.823	57	7659	0.516	ppbv #	60
34) 2-Butanone	2.557	43	17157	0.769	ppbv	99
35) Carbon Tetrachloride	3.758	117	1580m	0.060	ppbv	
36) Benzene	3.658	78	5201	0.173	ppbv	95
44) 2,2,4-Trimethylpentane	4.635	57	7214m	0.146	ppbv	
52) Tetrachloroethene	8.221	164	14913	1.230	ppbv	89
53) Toluene	6.927	91	23962	0.706	ppbv	99
58) Ethyl Benzene	9.351	91	6421	0.135	ppbv	99
59) m/p-Xylene	9.526	91	17969m	0.473	ppbv	
60) o-Xylene	9.956	91	6371	0.166	ppbv	85
74) 1,2,4-Trimethylbenzene	11.532	105	9010	0.217	ppbv #	63

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

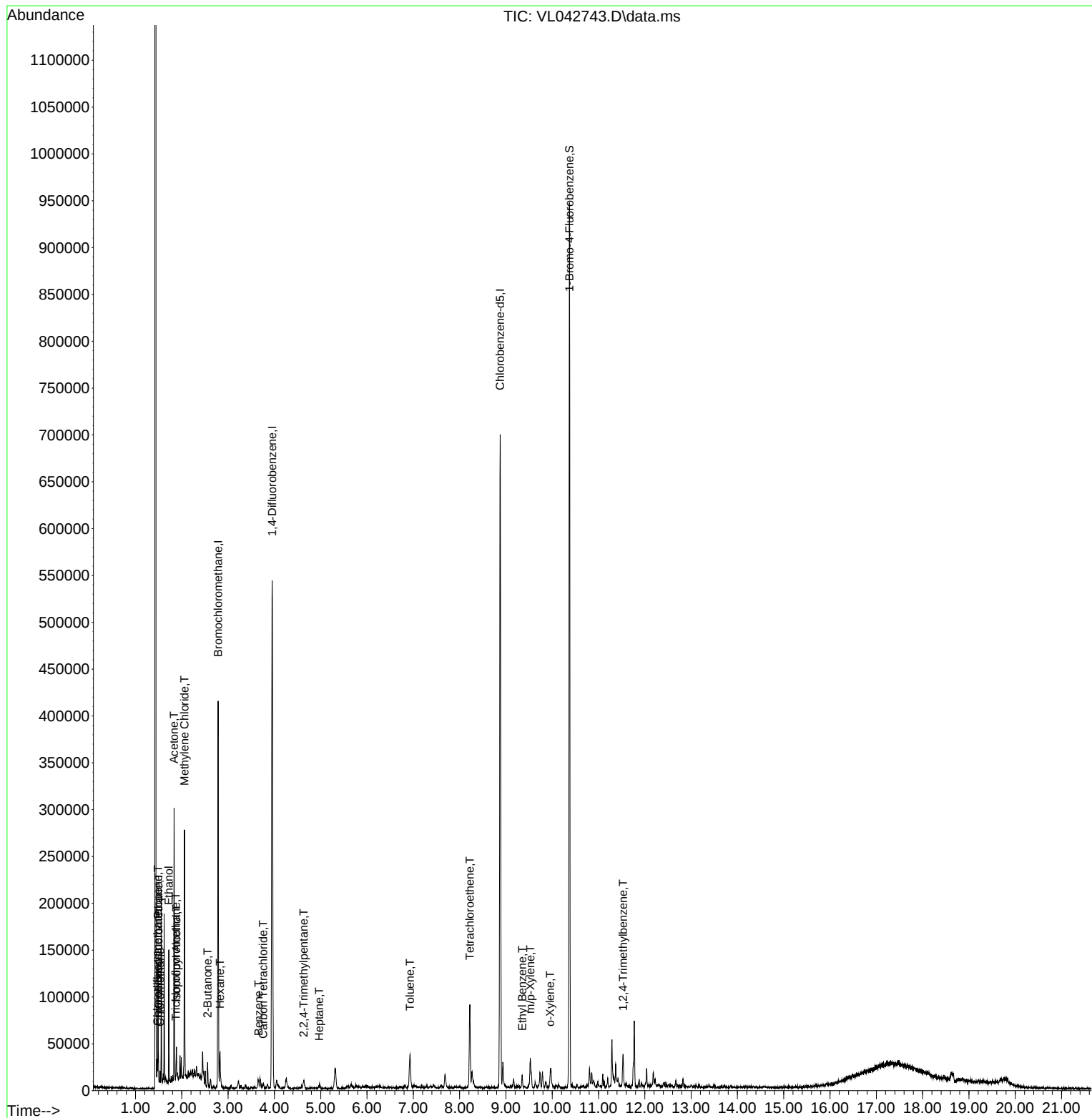
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
Data File : VL042743.D
Acq On : 22 Jul 2025 23:15
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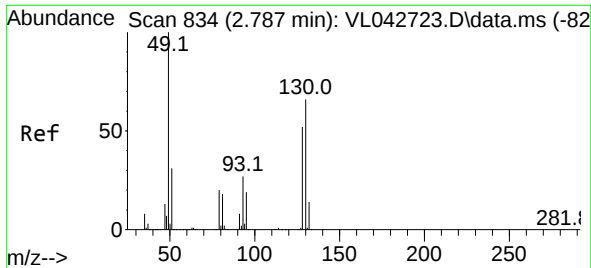
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Jul 23 03:07:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jul 23 02:51:39 2025
Response via : Initial Calibration

Manual Integrations
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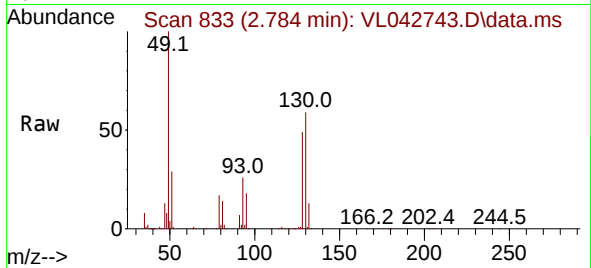
Reviewed By : Semsettin Yesilyurt 07/23/2025
Supervised By : Mahesh Dadoda 07/23/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

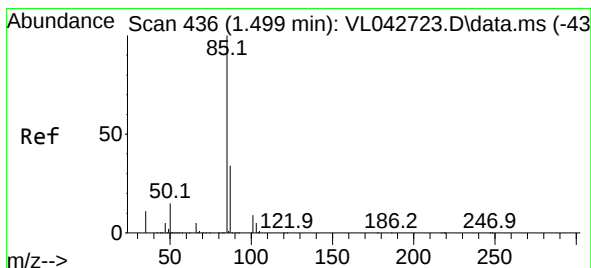
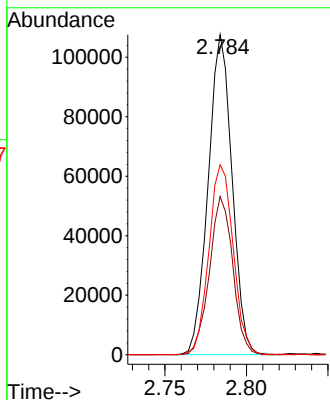
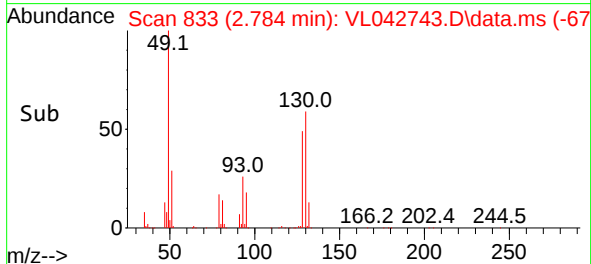
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 10940
Ion Ratio Lower Upper
49 100
128 48.3 24.5 73.5
130 60.7 31.7 95.1

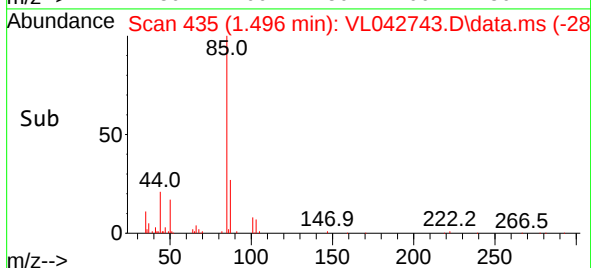
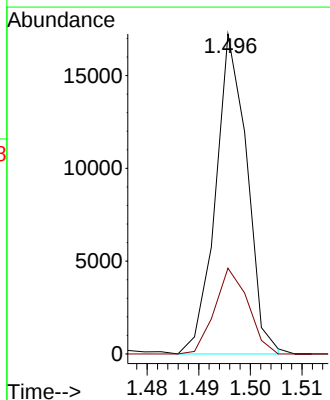
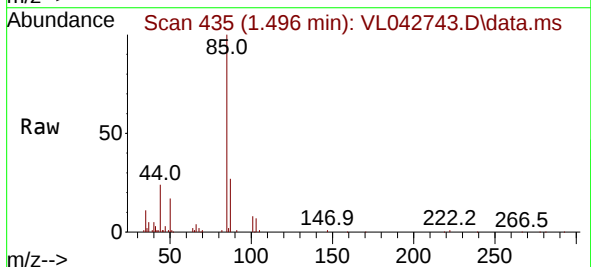
Manual Integrations
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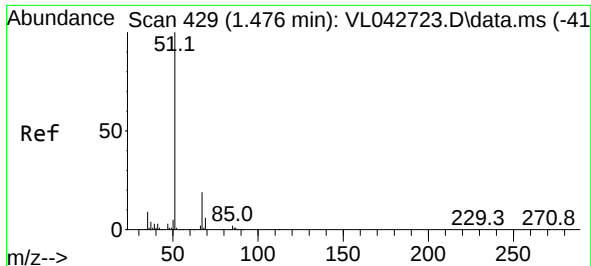
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#2
Dichlorodifluoromethane
Concen: 0.427 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

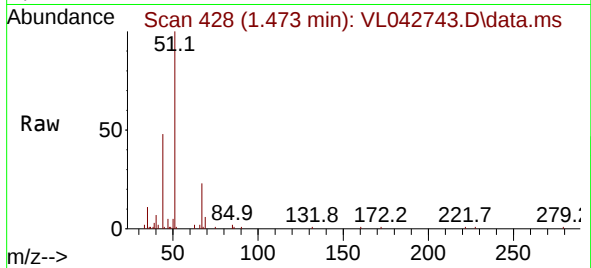
Tgt Ion: 85 Resp: 7298
Ion Ratio Lower Upper
85 100
87 26.8 27.5 41.3#





#3
Chlorodifluoromethane
Concen: 0.200 ppbv m
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

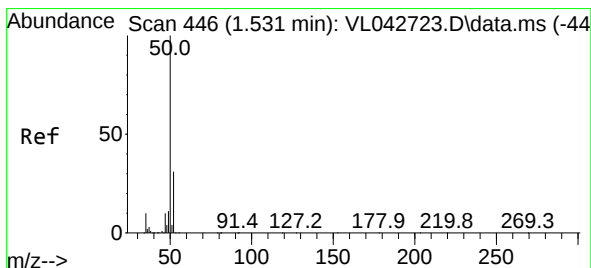
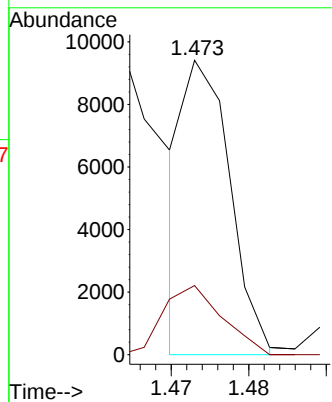
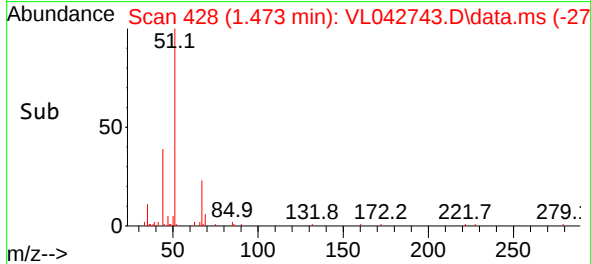
Instrument :
MSVOA_L
ClientSampleId :
OA1



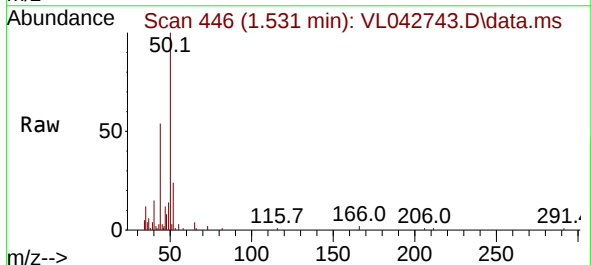
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Ion Ratio Lower Upper
51 100
67 30.4 16.0 24.0

Manual Integrations
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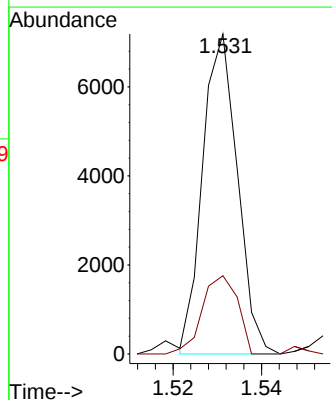
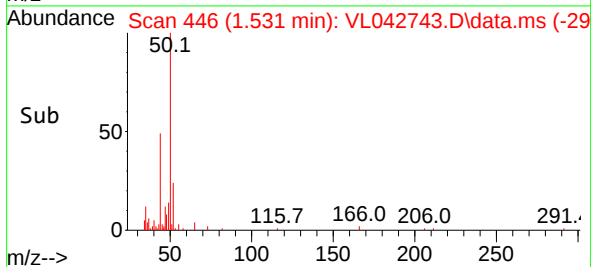
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

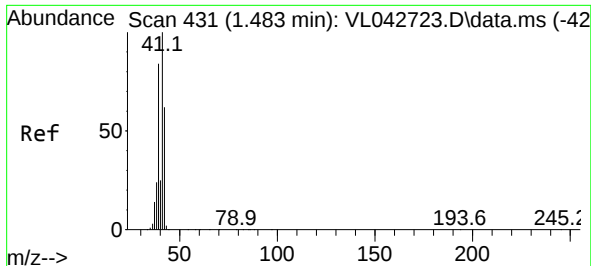


#4
Chloromethane
Concen: 0.561 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15



Tgt Ion: 50 Resp: 3923
Ion Ratio Lower Upper
50 100
52 24.5 24.9 37.3





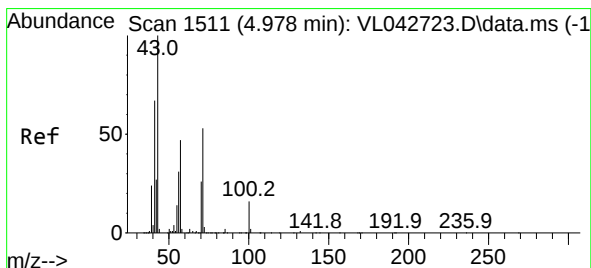
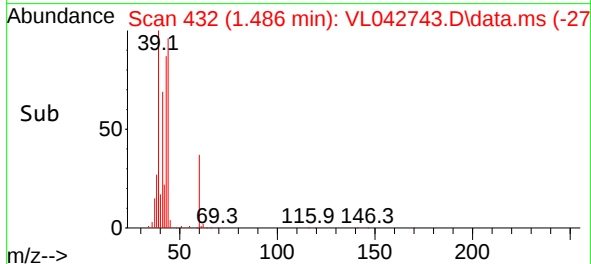
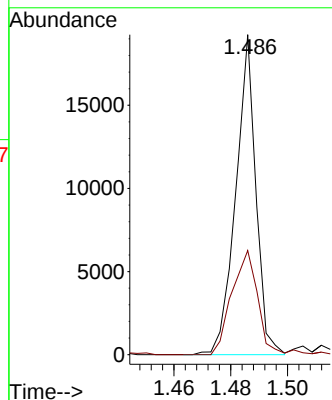
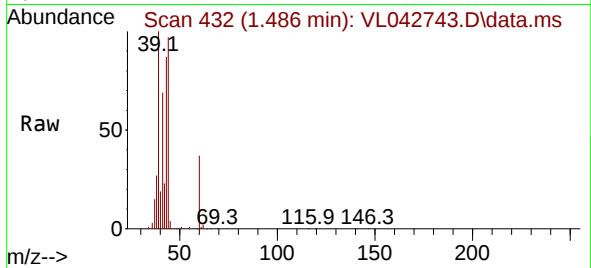
#9
Propene
Concen: 1.380 ppbv m
RT: 1.486 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 41 Resp: 9450
Ion Ratio Lower Upper
41 100
42 92.9 52.0 78.0

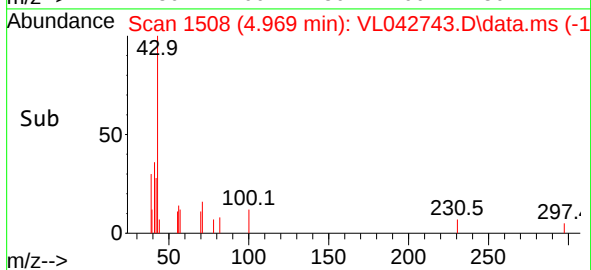
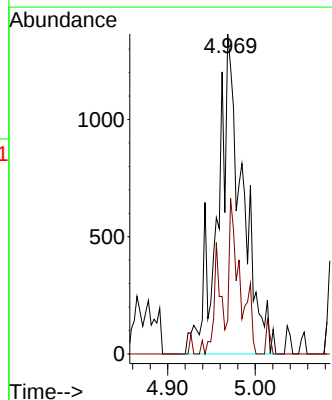
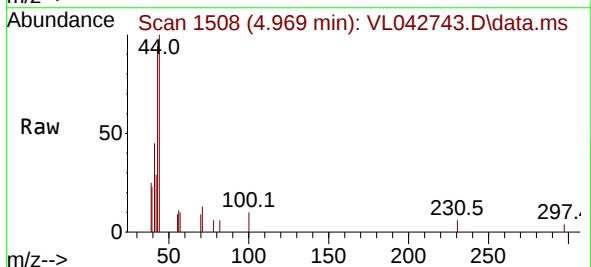
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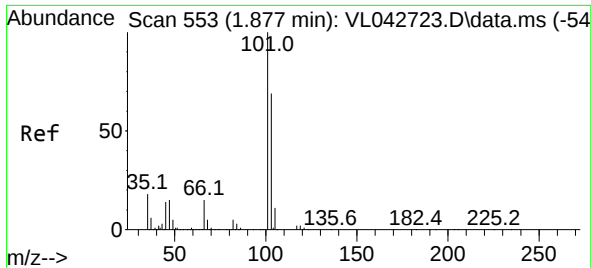
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#10
Heptane
Concen: 0.141 ppbv m
RT: 4.969 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Tgt Ion: 43 Resp: 2683
Ion Ratio Lower Upper
43 100
57 32.2 39.1 58.7





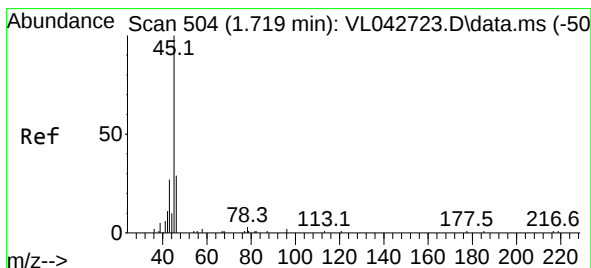
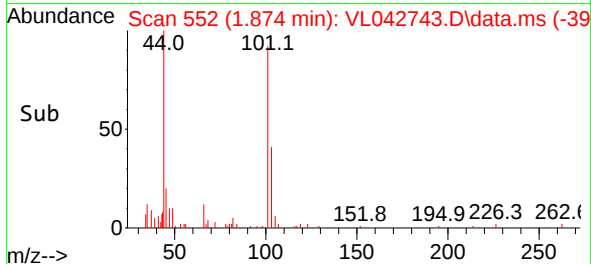
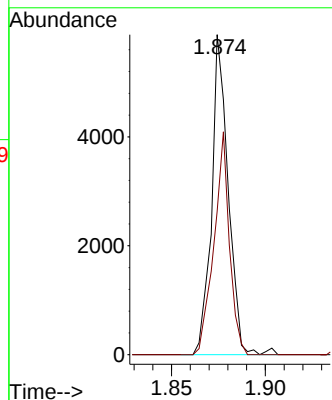
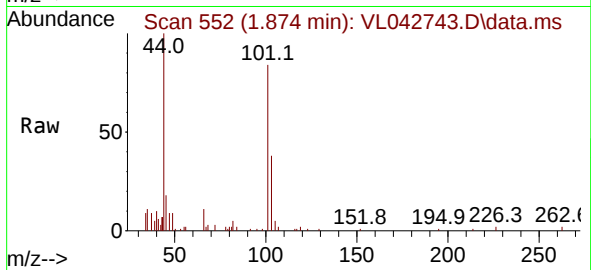
#11
Trichlorofluoromethane
Concen: 0.206 ppbv m
RT: 1.874 min Scan# 501
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:101 Resp: 362
Ion Ratio Lower Upper
101 100
103 44.8 55.2 82.8

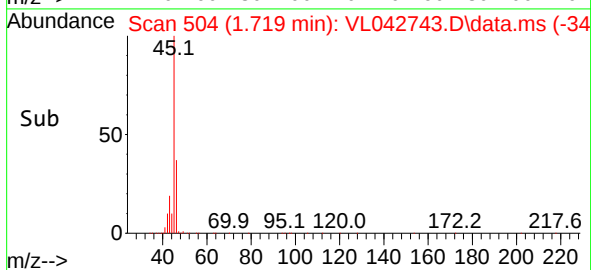
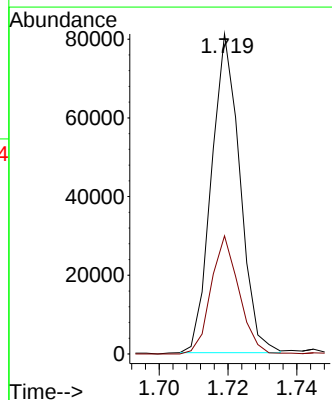
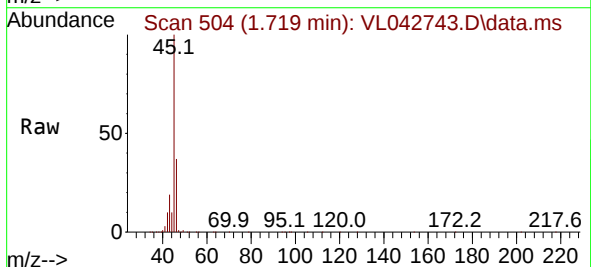
Manual Integrations
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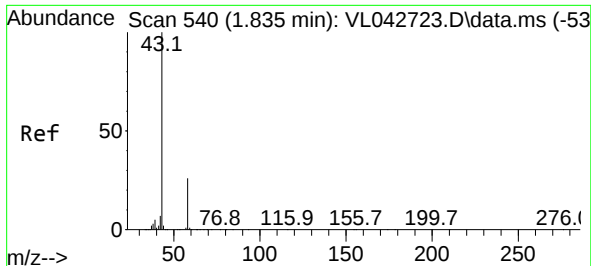
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#13
Ethanol
Concen: 40.370 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

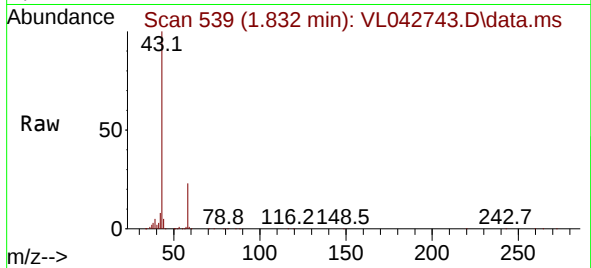
Tgt Ion: 45 Resp: 46540
Ion Ratio Lower Upper
45 100
46 36.7 16.3 65.1





#15
Acetone
Concen: 6.901 ppbv
RT: 1.832 min Scan# 518
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

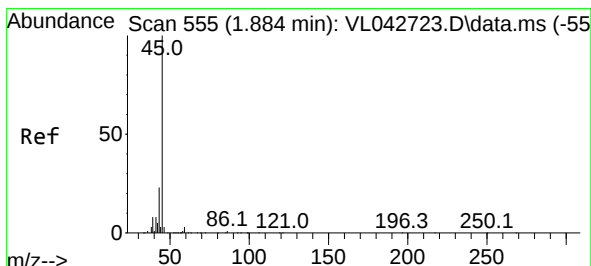
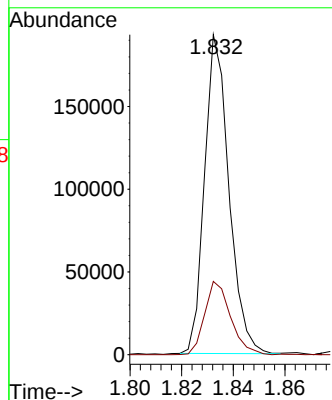
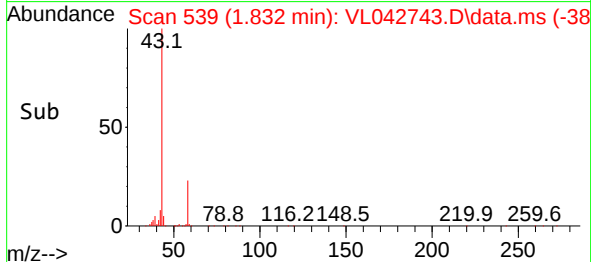
Instrument :
MSVOA_L
ClientSampleId :
OA1



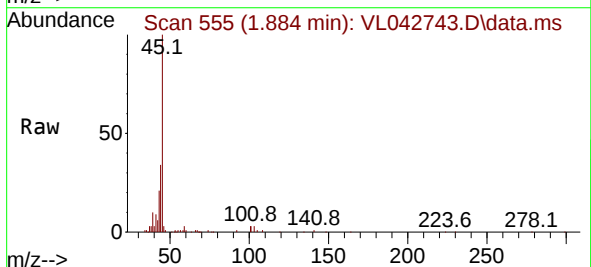
Tgt Ion: 43 Resp: 126418
Ion Ratio Lower Upper
43 100
58 24.5 20.5 30.7

Manual Integrations
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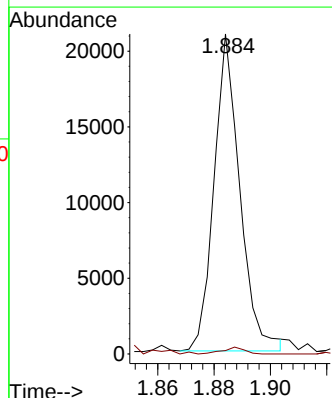
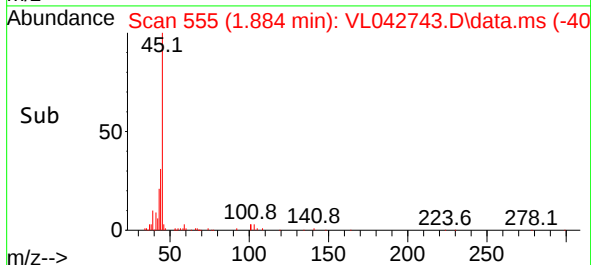
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

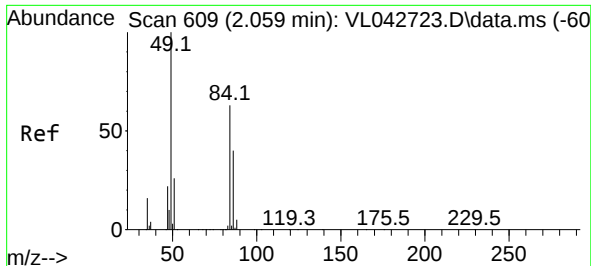


#19
Isopropyl Alcohol
Concen: 1.371 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15



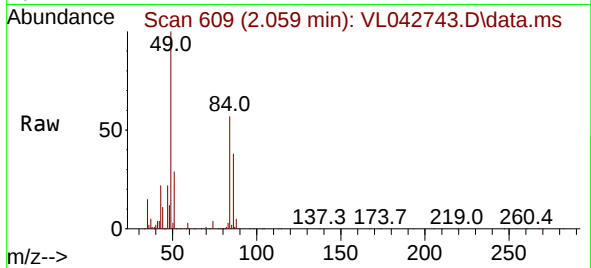
Tgt Ion: 45 Resp: 13308
Ion Ratio Lower Upper
45 100
58 232.7 30.6 46.0#





#20
Methylene Chloride
Concen: 5.698 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

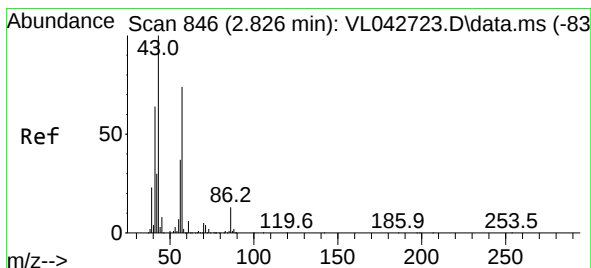
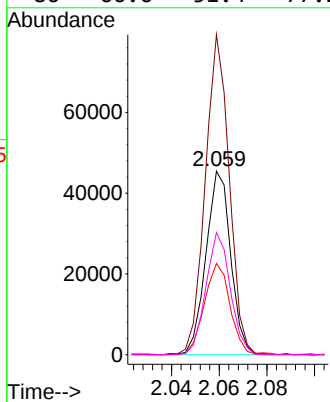
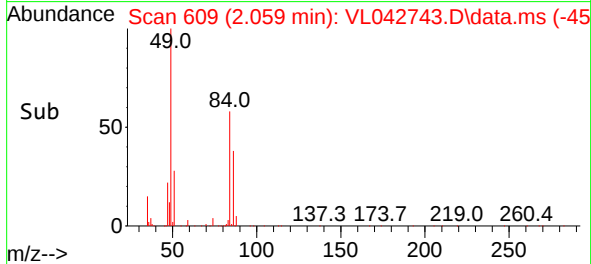
Instrument :
MSVOA_L
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OA1



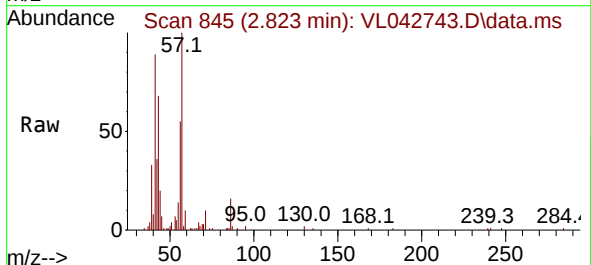
Tgt Ion: 84 Resp: 32808
Ion Ratio Lower Upper
84 100
49 174.2 128.2 192.4
51 49.7 34.5 51.7
86 66.6 51.4 77.2

Manual Integrations
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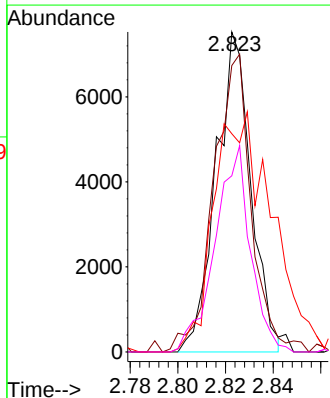
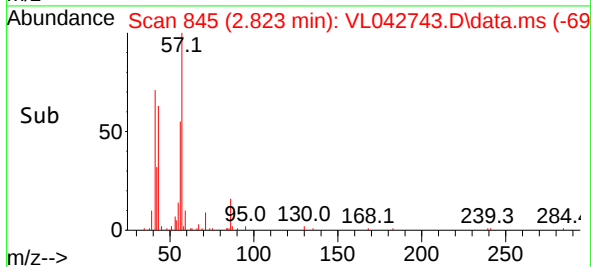
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025

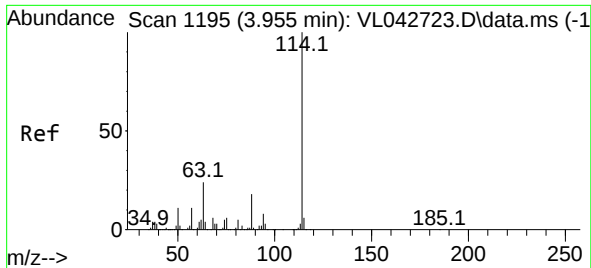


#26
Hexane
Concen: 0.516 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15



Tgt Ion: 57 Resp: 7659
Ion Ratio Lower Upper
57 100
41 104.6 77.3 115.9
43 132.4 182.3 273.5#
56 65.4 42.5 63.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

Lab File: VL042743.D

Acq: 22 Jul 2025 23:15

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion:114 Resp: 32380

Ion Ratio Lower Upper

114 100

63 25.3 20.4 30.6

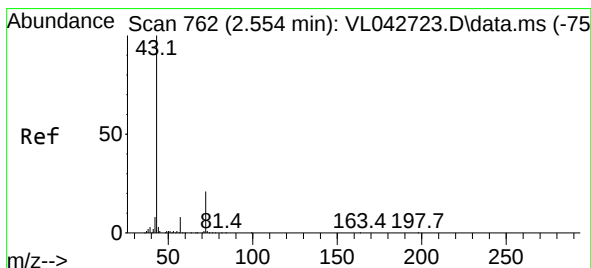
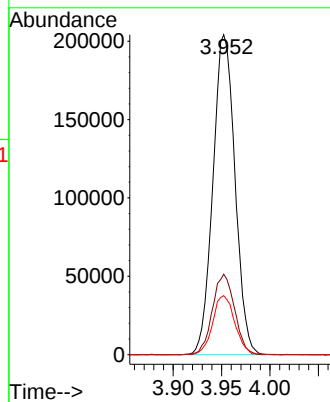
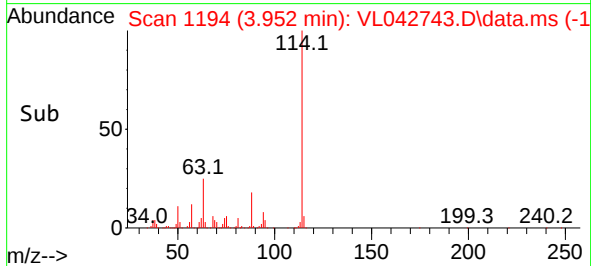
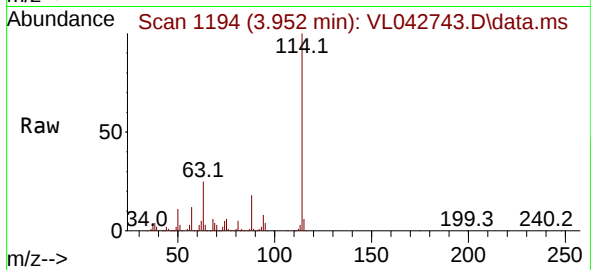
88 18.5 14.5 21.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/23/2025

Supervised By :Mahesh Dadoda 07/23/2025



#34

2-Butanone

Concen: 0.769 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042743.D

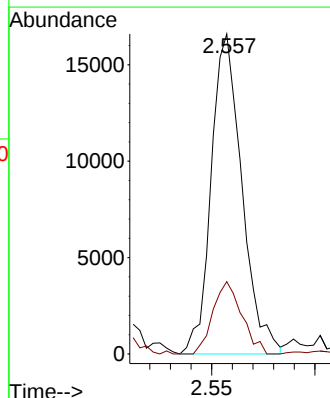
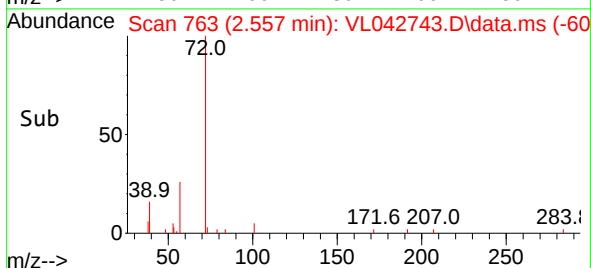
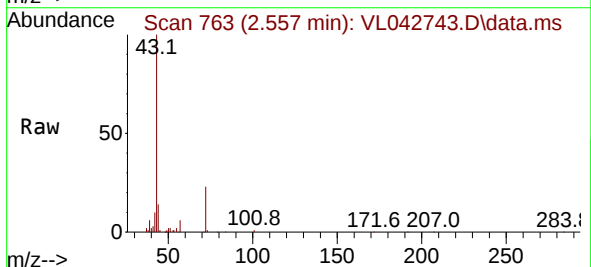
Acq: 22 Jul 2025 23:15

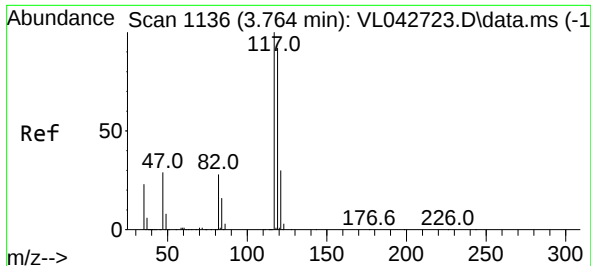
Tgt Ion: 43 Resp: 17157

Ion Ratio Lower Upper

43 100

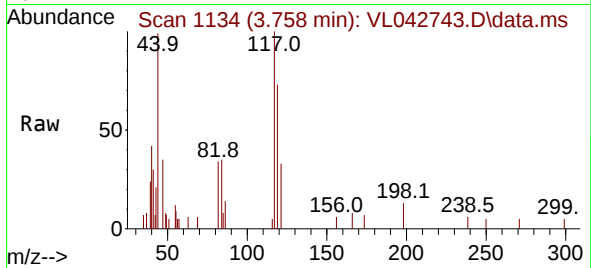
72 21.5 17.0 25.6





#35
Carbon Tetrachloride
Concen: 0.060 ppbv m
RT: 3.758 min Scan# 1136
Delta R.T. -0.006 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

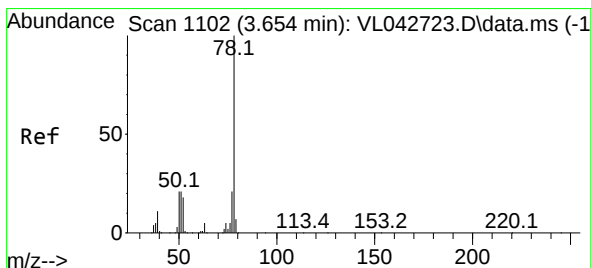
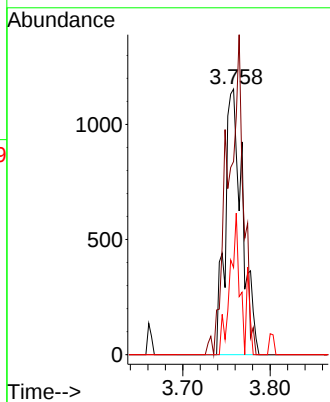
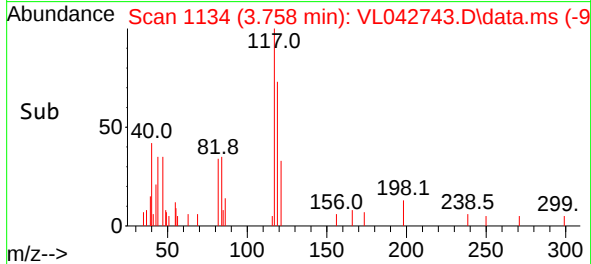
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:117 Resp: 1580
Ion Ratio Lower Upper
117 100
119 72.7 73.7 110.5
121 32.8 23.8 35.8

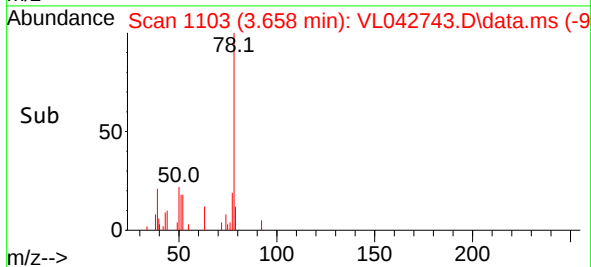
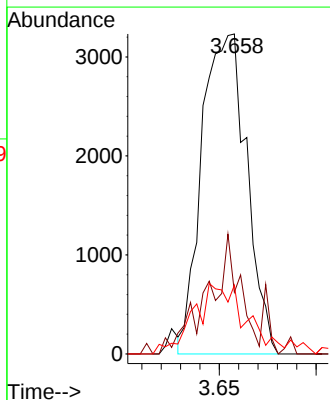
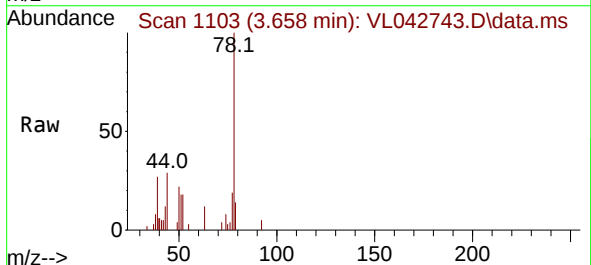
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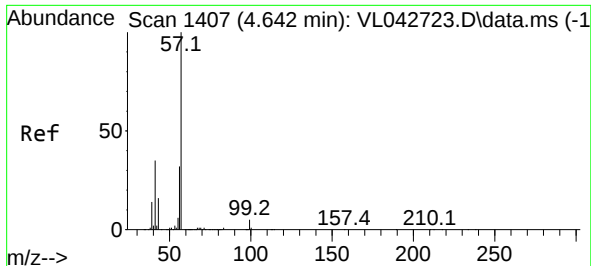
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#36
Benzene
Concen: 0.173 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

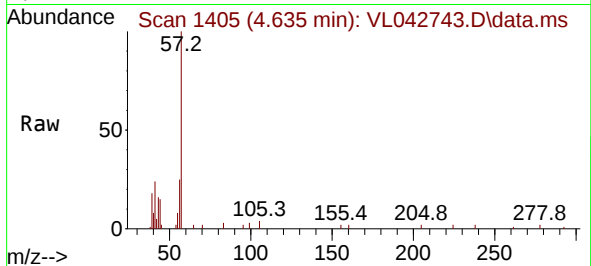
Tgt Ion: 78 Resp: 5201
Ion Ratio Lower Upper
78 100
77 19.3 17.0 25.4
50 18.4 16.9 25.3





#44
2,2,4-Trimethylpentane
Concen: 0.146 ppbv m
RT: 4.635 min Scan# 1407
Delta R.T. -0.006 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

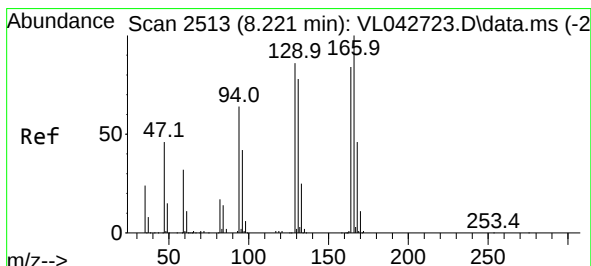
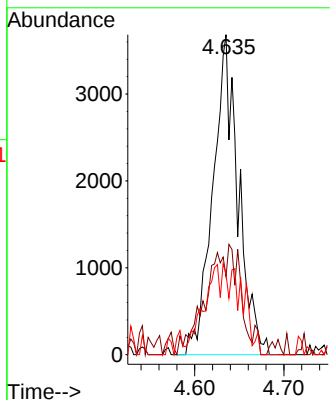
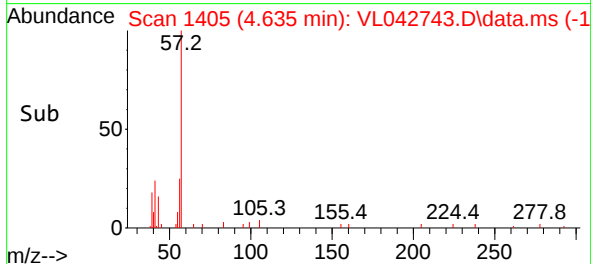
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 57 Resp: 7214
Ion Ratio Lower Upper
57 100
41 53.3 29.4 44.0
56 0.0 26.1 39.1

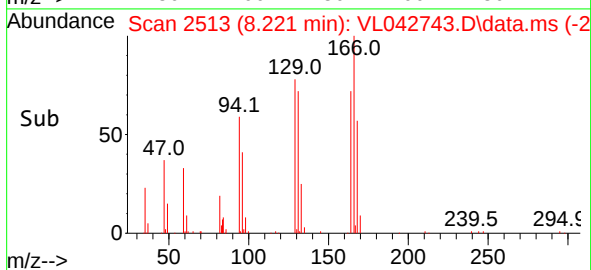
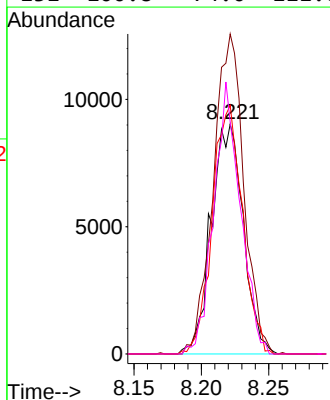
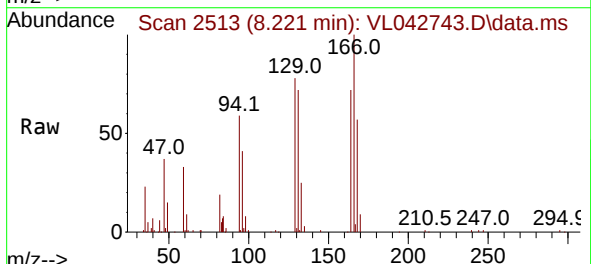
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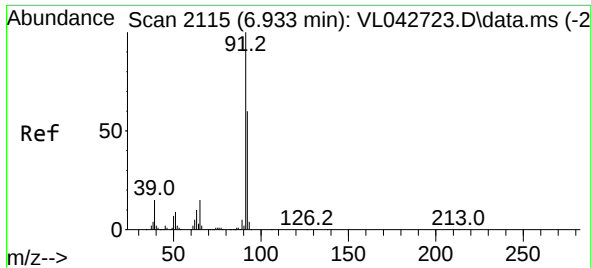
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#52
Tetrachloroethene
Concen: 1.230 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Tgt Ion:164 Resp: 14913
Ion Ratio Lower Upper
164 100
166 139.1 95.1 142.7
129 108.1 81.9 122.9
131 100.8 74.0 111.0





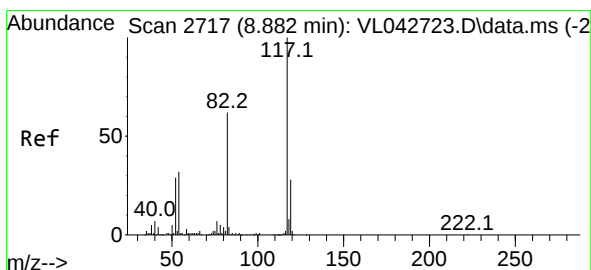
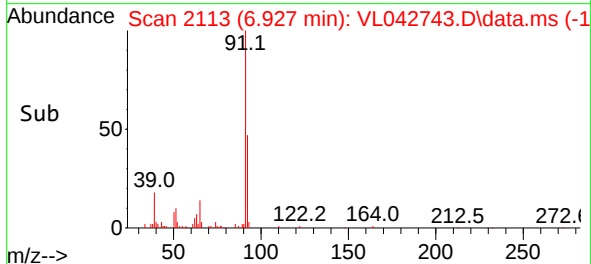
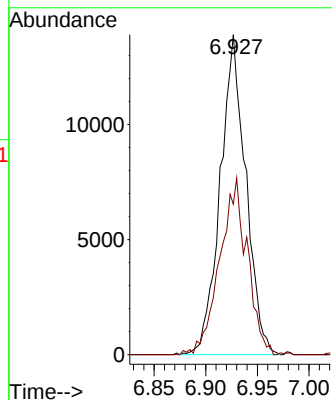
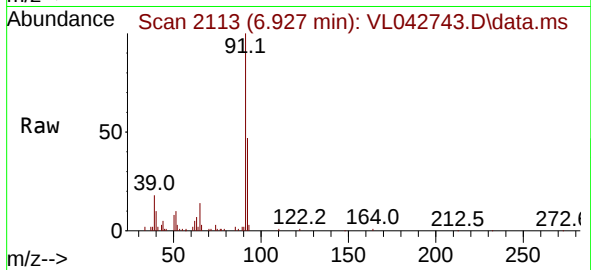
#53
Toluene
Concen: 0.706 ppbv
RT: 6.927 min Scan# 2115
Delta R.T. -0.006 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 23962
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4

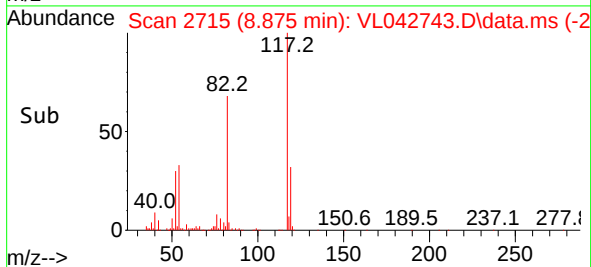
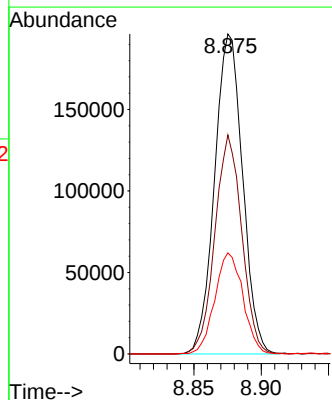
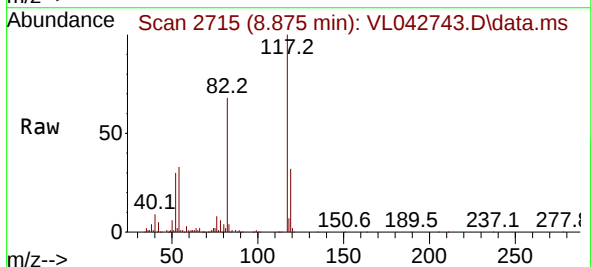
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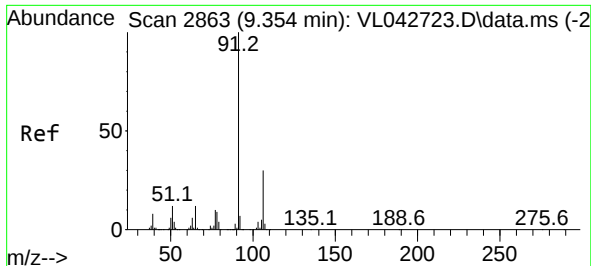
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.006 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Tgt Ion:117 Resp: 284327
Ion Ratio Lower Upper
117 100
82 65.7 54.6 81.8
119 31.7 25.3 37.9





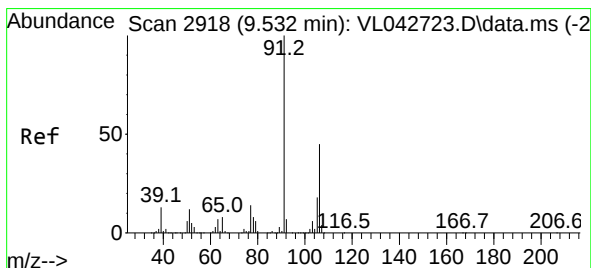
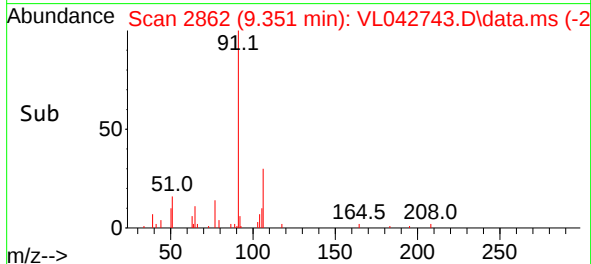
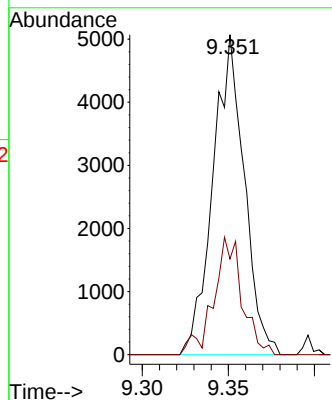
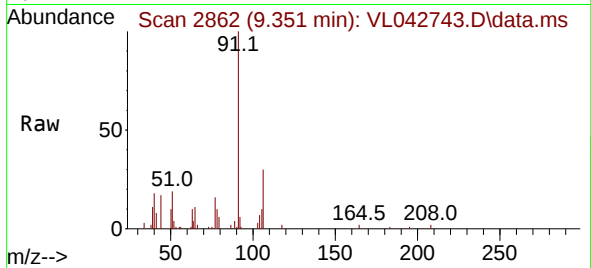
#58
Ethyl Benzene
Concen: 0.135 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 642
Ion Ratio Lower Upper
91 100
106 29.9 23.7 35.5

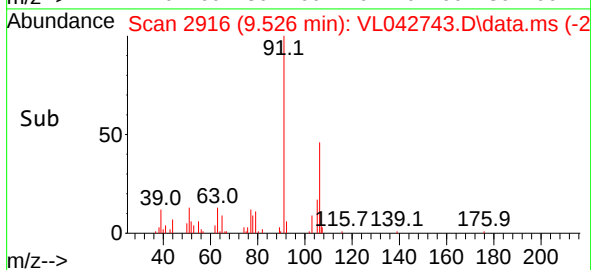
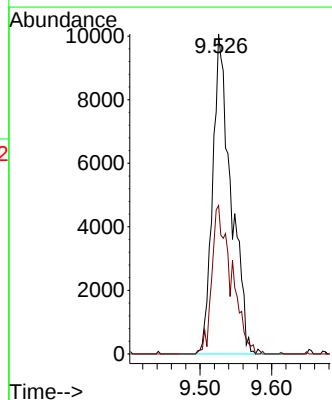
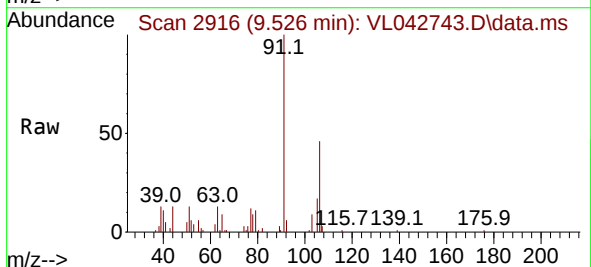
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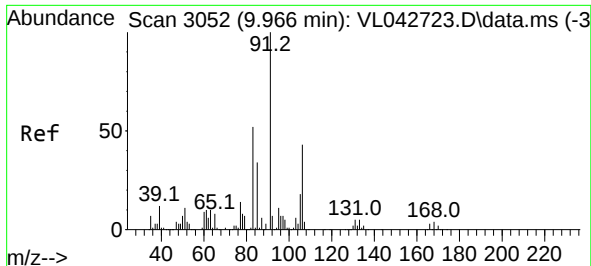
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#59
m/p-Xylene
Concen: 0.473 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.006 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Tgt Ion: 91 Resp: 17969
Ion Ratio Lower Upper
91 100
106 49.2 37.3 55.9





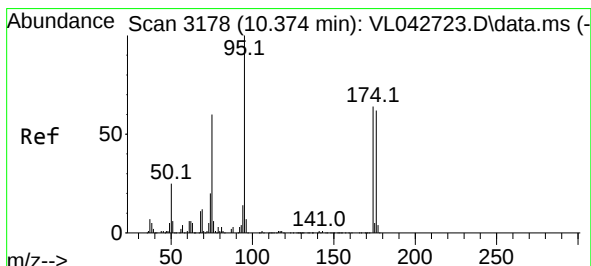
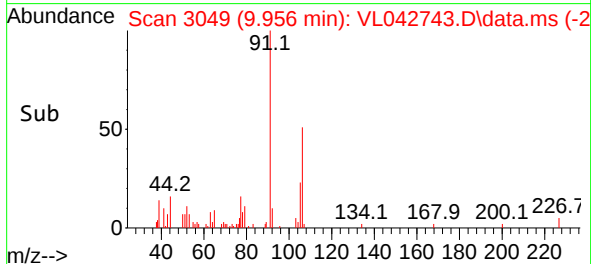
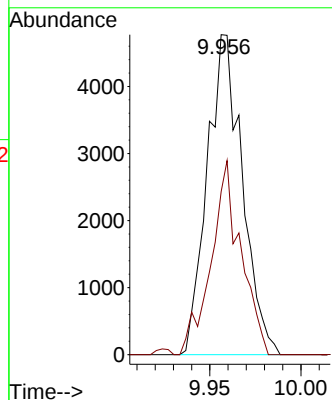
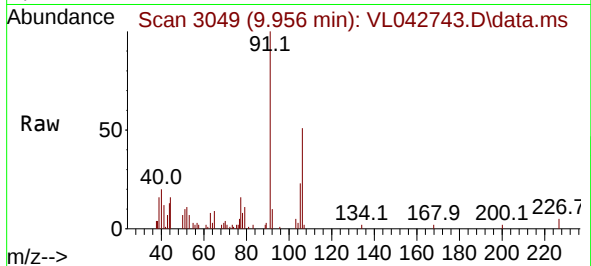
#60
o-Xylene
Concen: 0.166 ppbv
RT: 9.956 min Scan# 3052
Delta R.T. -0.010 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 637
Ion Ratio Lower Upper
91 100
106 52.3 21.4 64.3

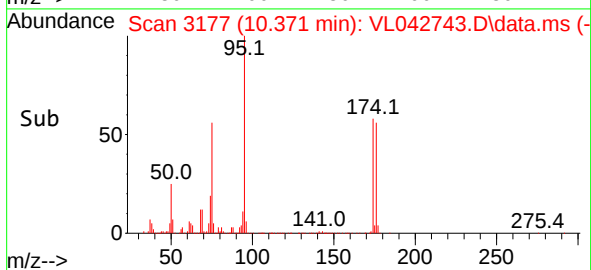
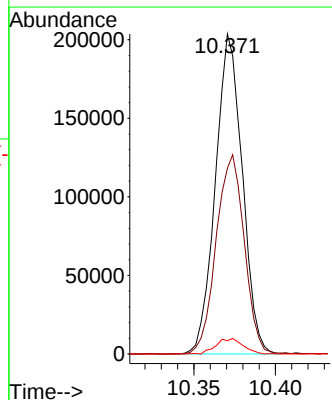
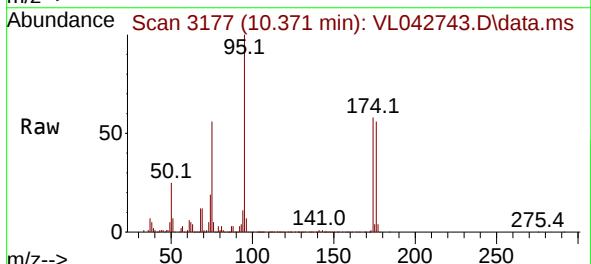
Manual Integrations
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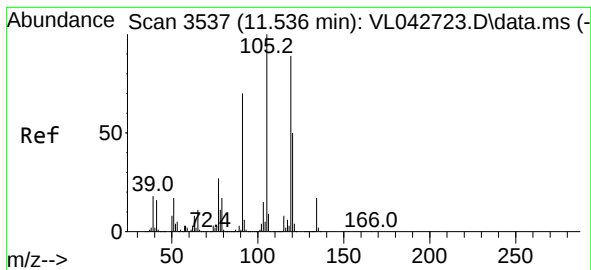
Reviewed By :Semsettin Yesilyurt 07/23/2025
Supervised By :Mahesh Dadoda 07/23/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.160 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042743.D
Acq: 22 Jul 2025 23:15

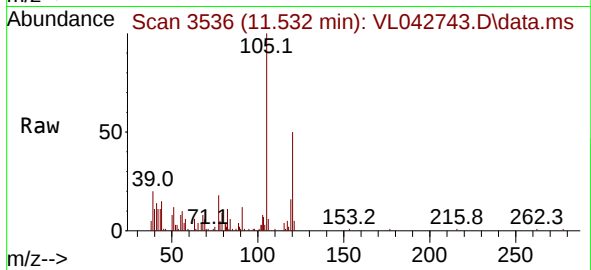
Tgt Ion: 95 Resp: 233470
Ion Ratio Lower Upper
95 100
174 65.1 51.4 77.2
175 4.9 4.2 6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.217 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.003 min
 Lab File: VL042743.D
 Acq: 22 Jul 2025 23:15

Instrument : MSVOA_L
 ClientSampleId : OA1



Tgt Ion:	105	Resp:	9010
Ion Ratio	Lower	Upper	
105	100		
120	50.3	39.9	59.9
91	12.5	56.5	84.7
77	17.7	21.8	32.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

