

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043235.D
 Acq On : 19 Nov 2025 12:43
 Operator : SY/MD
 Sample : Q3626-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 9A-SG-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
 Supervised By :Mahesh Dadoda 11/21/2025

Quant Time: Nov 20 00:03:50 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	106377	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	292792	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	229139	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	172437	10.267	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	3925	0.262	ppbv	99
3) Chlorodifluoromethane	1.476	51	1639m	0.111	ppbv	
4) Chloromethane	1.532	50	1622	0.289	ppbv #	88
9) Propene	1.486	41	11523	1.839	ppbv #	1
10) Heptane	4.982	43	24157	1.295	ppbv	94
11) Trichlorofluoromethane	1.881	101	1771	0.122	ppbv	94
13) Ethanol	1.722	45	47879	21.731	ppbv	99
15) Acetone	1.836	43	230501	15.596	ppbv	98
17) tert-Butyl alcohol	2.043	59	3443	0.177	ppbv #	91
19) Isopropyl Alcohol	1.888	45	29482	3.530	ppbv #	1
20) Methylene Chloride	2.062	84	4140	0.180	ppbv	93
26) Hexane	2.826	57	30379	2.174	ppbv #	43
27) Carbon Disulfide	2.153	76	3349	0.235	ppbv #	51
34) 2-Butanone	2.558	43	20420	0.988	ppbv	99
35) Carbon Tetrachloride	3.758	117	734m	0.033	ppbv	
36) Benzene	3.661	78	5671	0.202	ppbv #	93
38) Trichloroethene	4.545	130	625m	0.057	ppbv	
52) Tetrachloroethene	8.225	164	119688	11.475	ppbv	95
53) Toluene	6.933	91	8500m	0.256	ppbv	
58) Ethyl Benzene	9.351	91	4481m	0.102	ppbv	
59) m/p-Xylene	9.532	91	7823	0.221	ppbv	94
60) o-Xylene	9.960	91	3639	0.103	ppbv	96
61) Styrene	9.869	104	8898	0.576	ppbv	94
74) 1,2,4-Trimethylbenzene	11.536	105	5098	0.129	ppbv #	53
79) Naphthalene	13.517	128	3660m	0.105	ppbv	

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

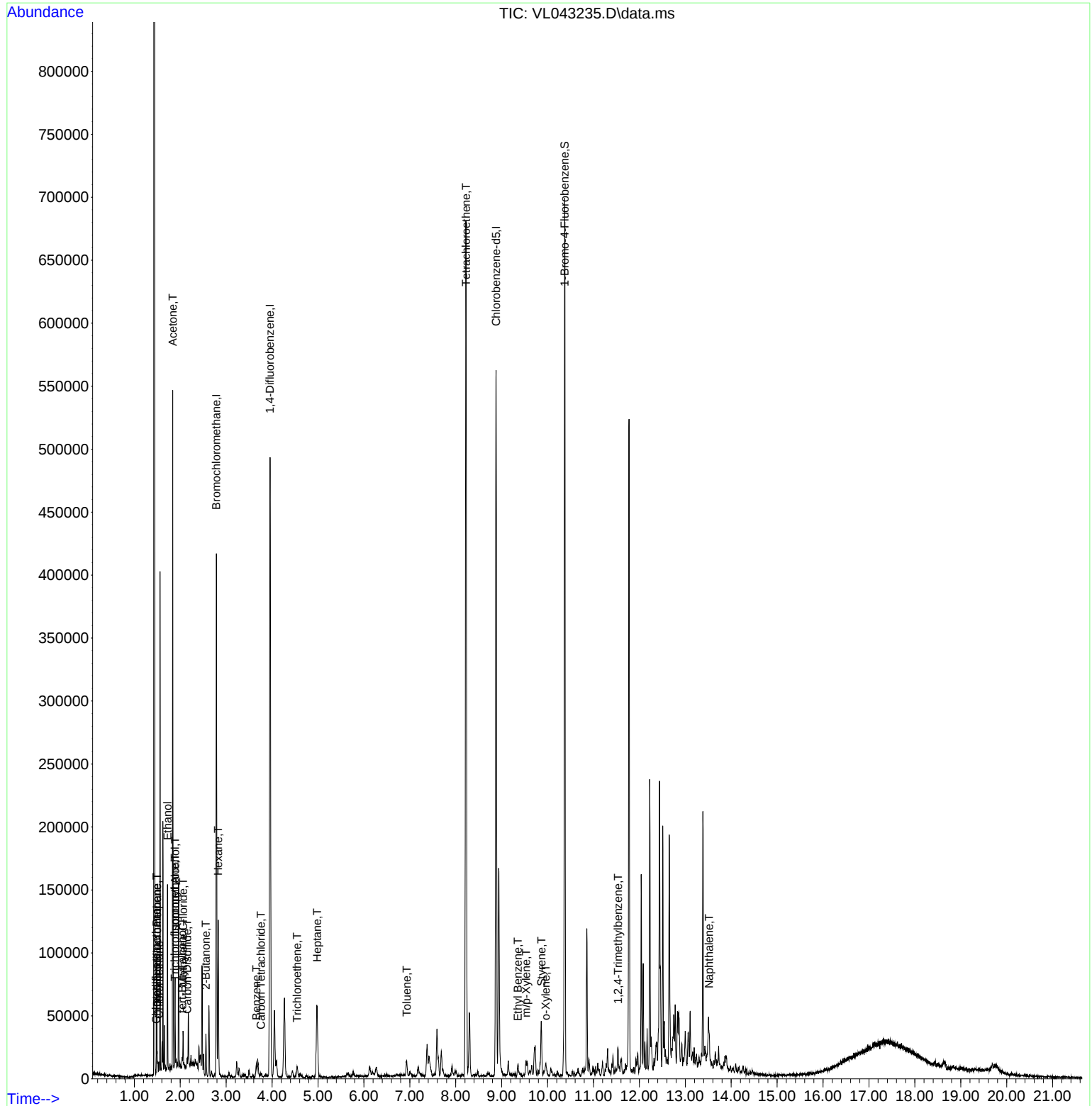
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\  
Data File : VL043235.D  
Acq On    : 19 Nov 2025 12:43  
Operator  : SY/MD  
Sample    : Q3626-01 2X  
Misc      : 400mL/MSVOA_L  
ALS Vial  : 1 Sample Multiplier: 1
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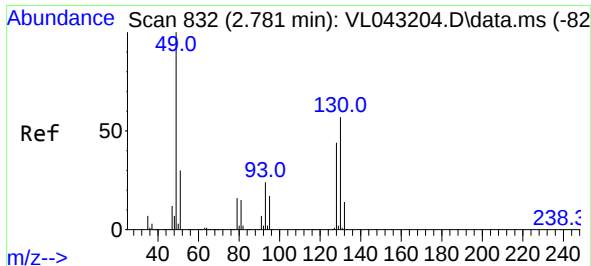
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Manual Integrations

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

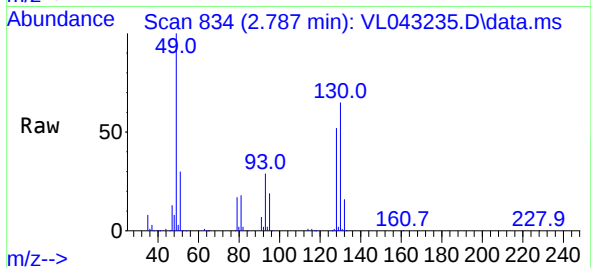
Quant Time: Nov 20 00:03:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
Qlast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

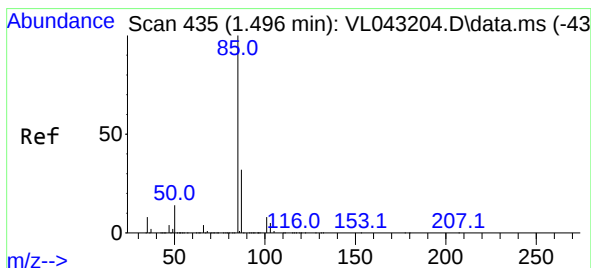
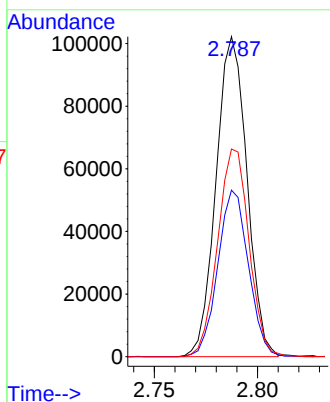
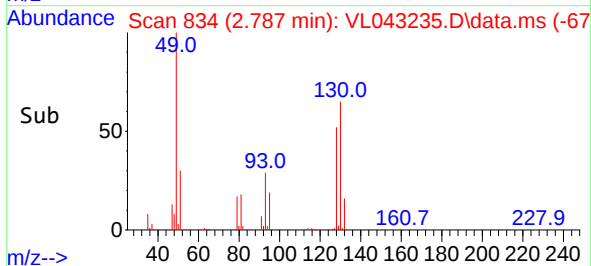
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1



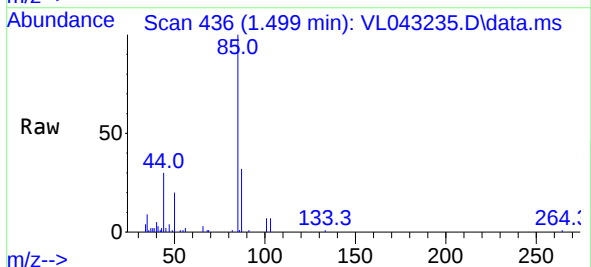
Tgt Ion: 49 Resp: 10637
Ion Ratio Lower Upper
49 100
128 51.6 23.0 69.0
130 66.0 29.9 89.7

Manual Integrations
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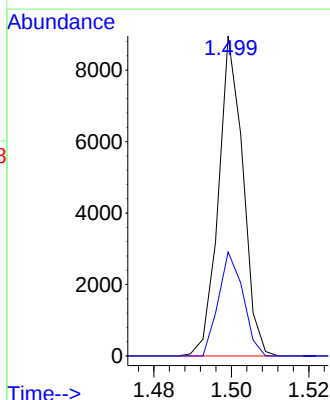
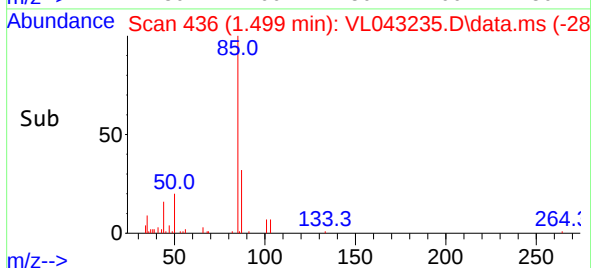
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

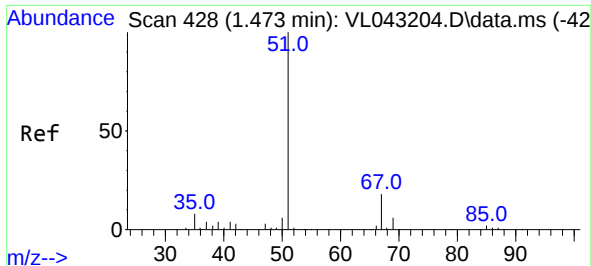


#2
Dichlorodifluoromethane
Concen: 0.262 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43



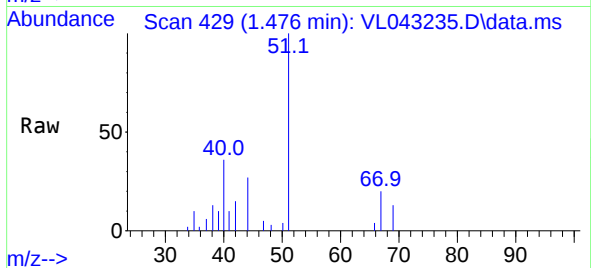
Tgt Ion: 85 Resp: 3925
Ion Ratio Lower Upper
85 100
87 32.5 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.111 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

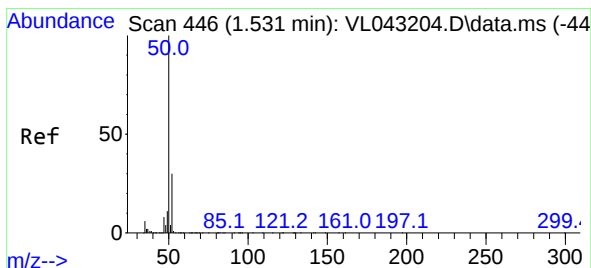
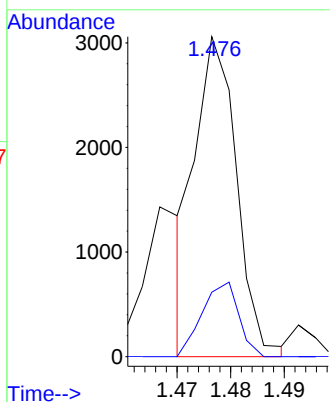
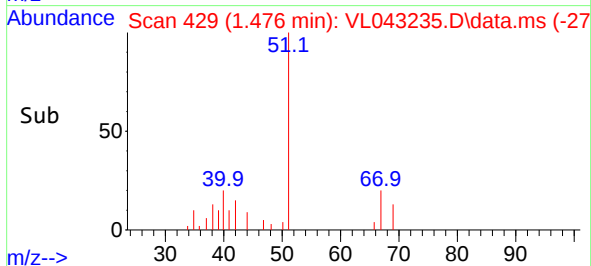
Instrument :
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ClientSampleId :
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Tgt Ion: 51 Resp: 1639
Ion Ratio Lower Upper
51 100
67 20.7 14.9 22.3

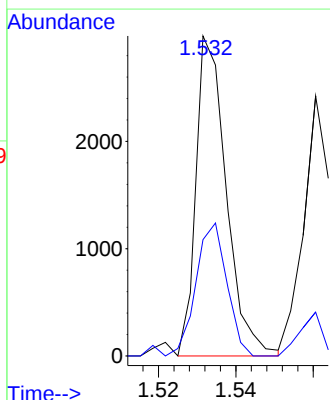
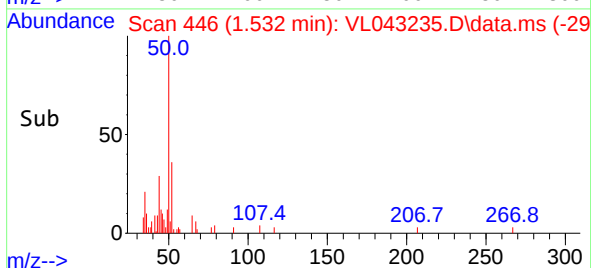
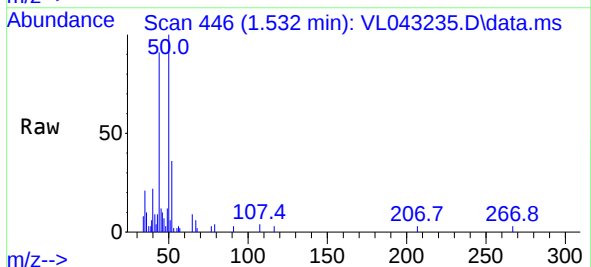
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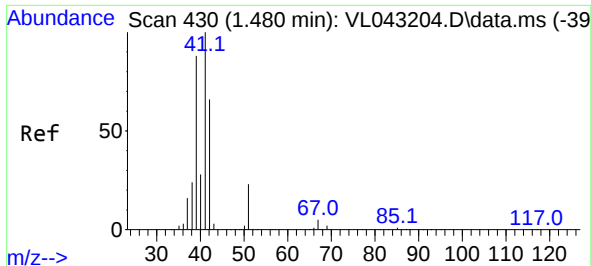
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#4
Chloromethane
Concen: 0.289 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 50 Resp: 1622
Ion Ratio Lower Upper
50 100
52 36.4 24.1 36.1#





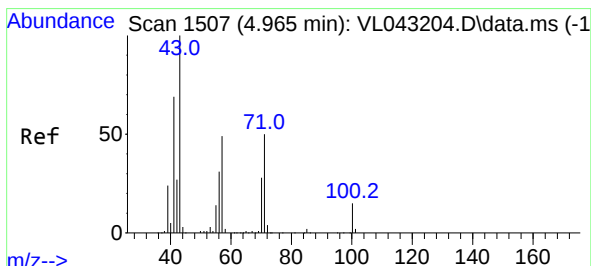
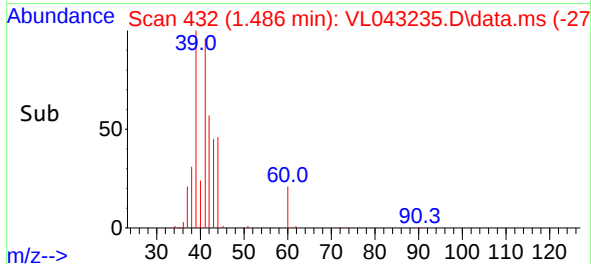
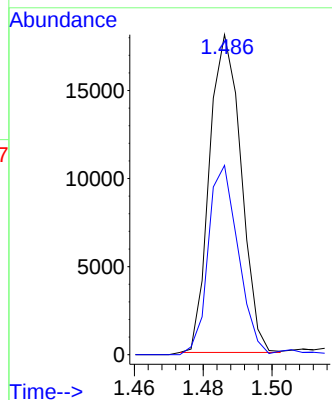
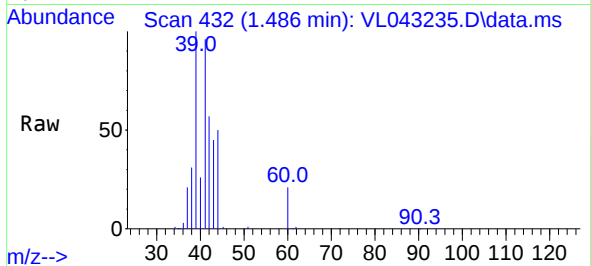
#9
Propene
Concen: 1.839 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 41 Resp: 1152
Ion Ratio Lower Upper
41 100
42 59.0 3.7 5.5

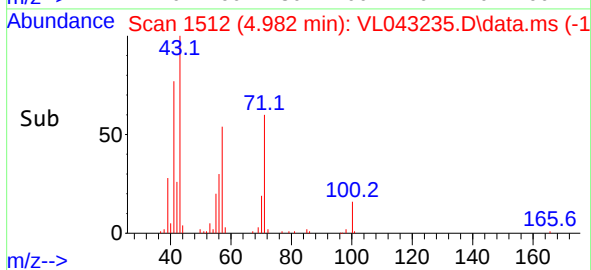
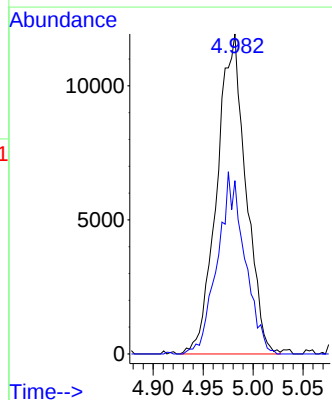
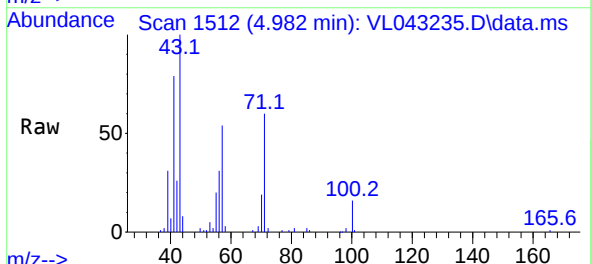
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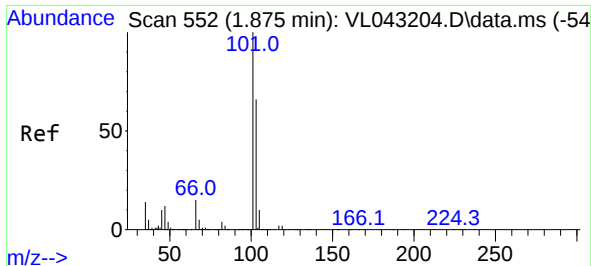
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#10
Heptane
Concen: 1.295 ppbv
RT: 4.982 min Scan# 1512
Delta R.T. 0.016 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

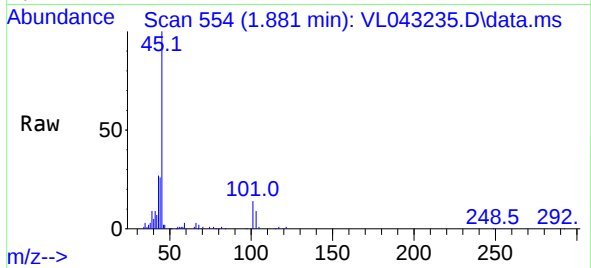
Tgt Ion: 43 Resp: 24157
Ion Ratio Lower Upper
43 100
57 53.5 39.7 59.5





#11
Trichlorofluoromethane
Concen: 0.122 ppbv
RT: 1.881 min Scan# 505
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

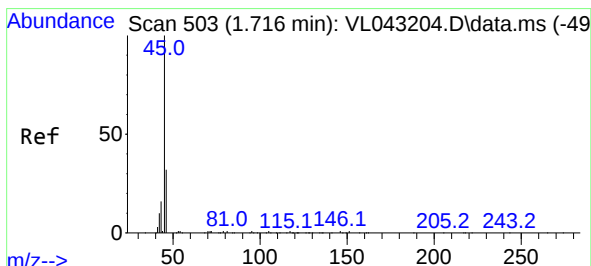
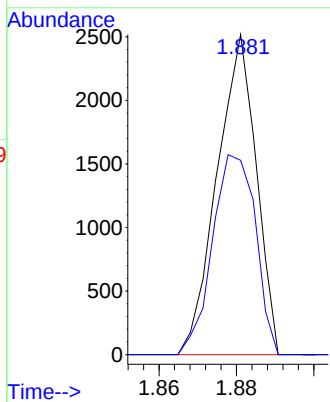
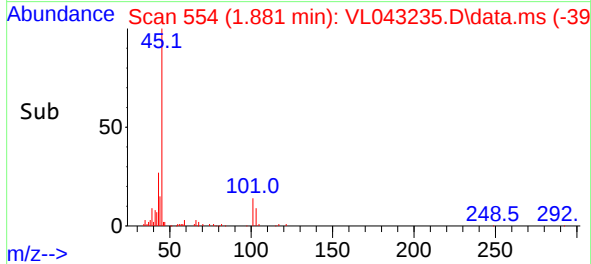
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1



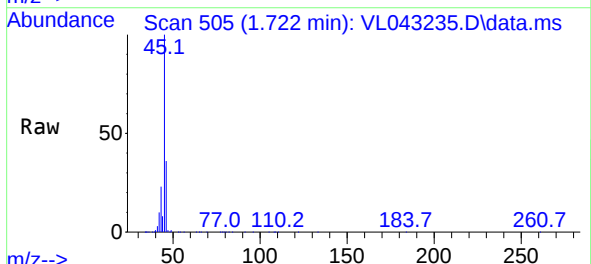
Tgt Ion:101 Resp: 177
Ion Ratio Lower Upper
101 100
103 60.7 52.6 79.0

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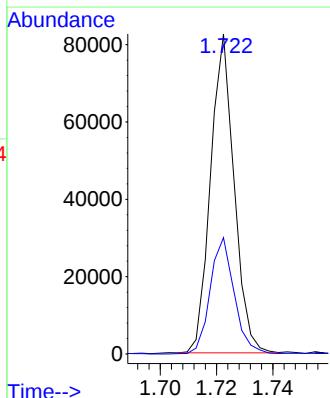
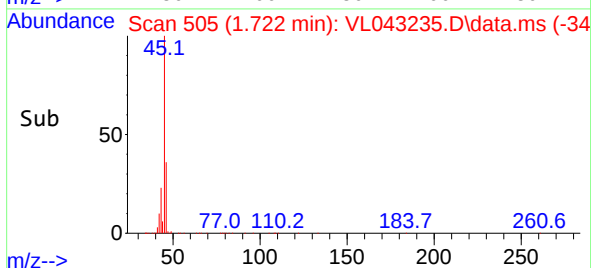
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

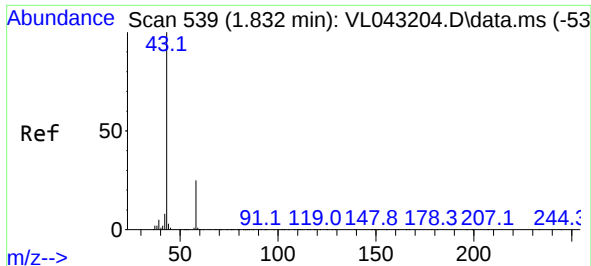


#13
Ethanol
Concen: 21.731 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43



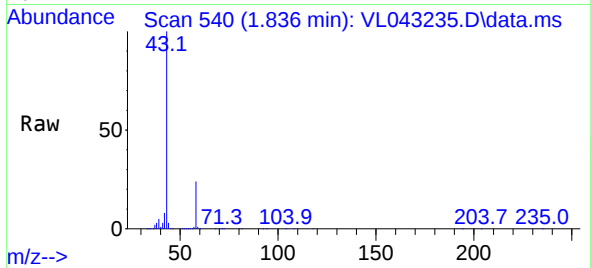
Tgt Ion: 45 Resp: 47879
Ion Ratio Lower Upper
45 100
46 37.8 15.0 59.8





#15
Acetone
Concen: 15.596 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

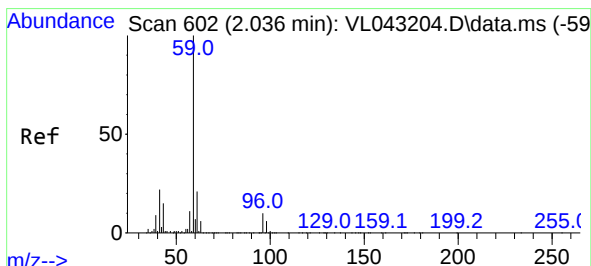
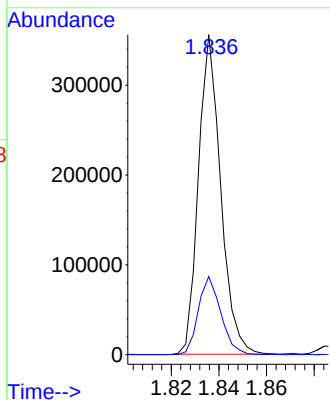
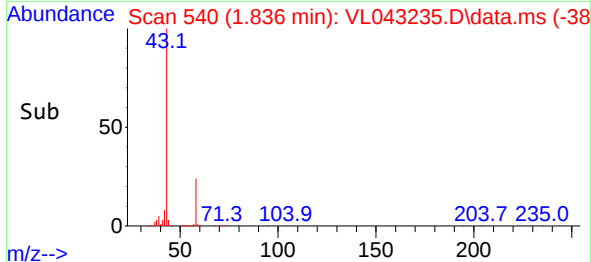
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1



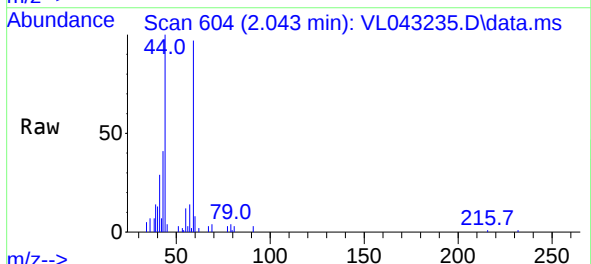
Tgt Ion: 43 Resp: 23050
Ion Ratio Lower Upper
43 100
58 24.8 20.7 31.1

Manual Integrations
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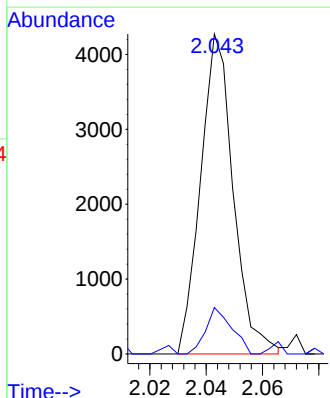
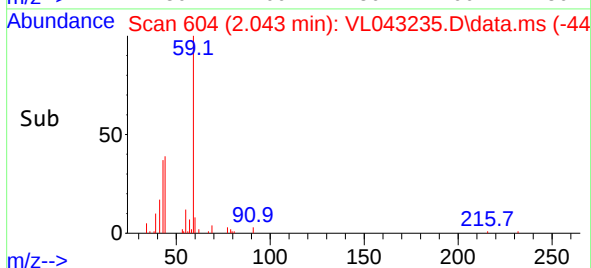
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Supervised By :Mahesh Dadoda 11/21/2025

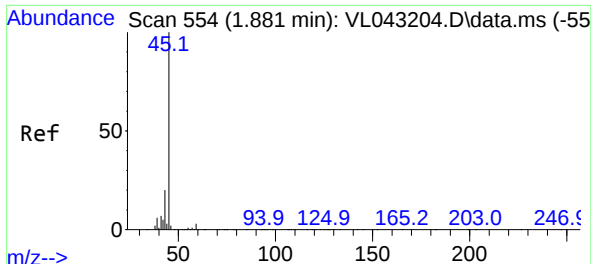


#17
tert-Butyl alcohol
Concen: 0.177 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43



Tgt Ion: 59 Resp: 3443
Ion Ratio Lower Upper
59 100
57 14.8 9.0 13.4#





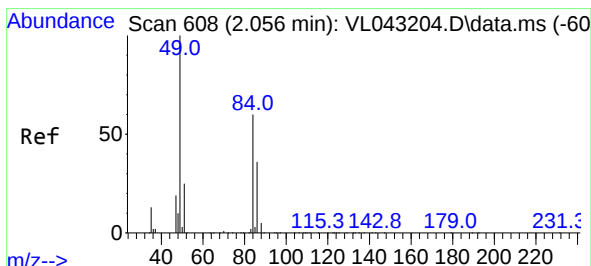
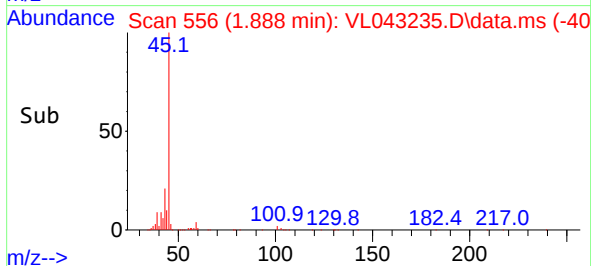
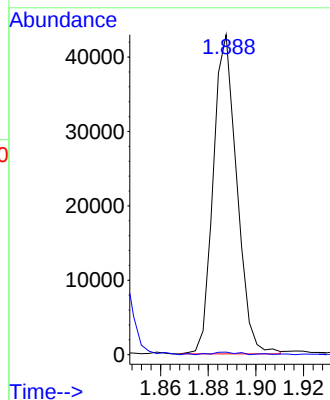
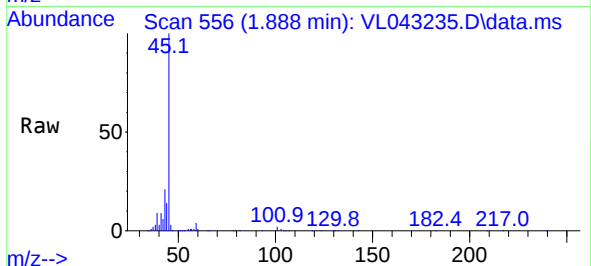
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Isopropyl Alcohol
Concen: 3.530 ppbv
RT: 1.888 min Scan# 51
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 45 Resp: 2948
Ion Ratio Lower Upper
45 100
58 194.3 31.3 46.9

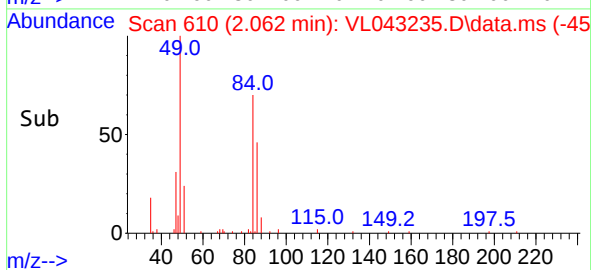
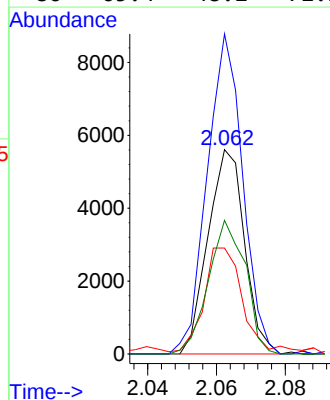
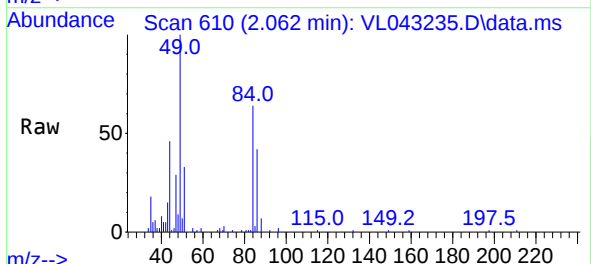
Manual Integrations
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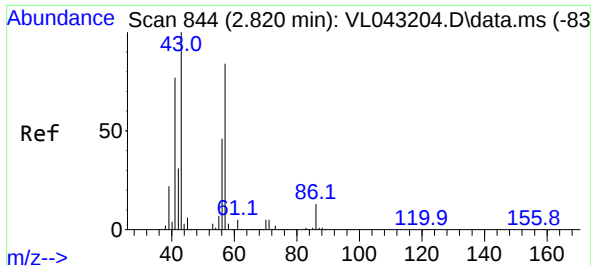
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#20
Methylene Chloride
Concen: 0.180 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

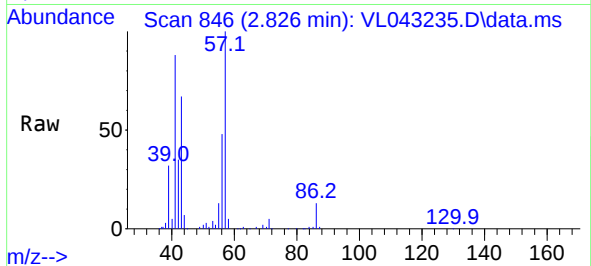
Tgt Ion: 84 Resp: 4140
Ion Ratio Lower Upper
84 100
49 156.6 132.9 199.3
51 50.0 34.8 52.2
86 65.4 48.2 72.2





#26
Hexane
Concen: 2.174 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

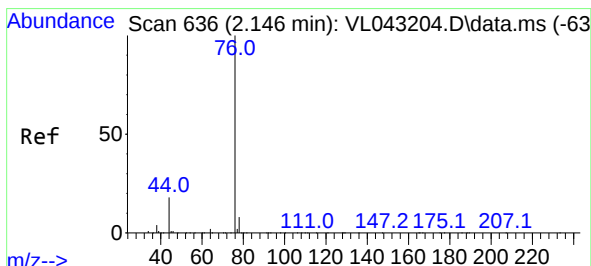
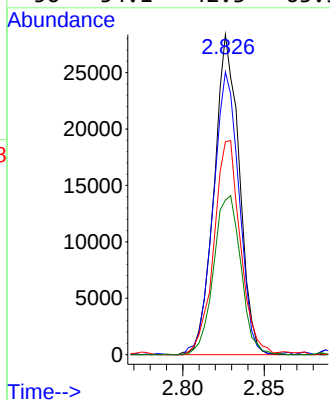
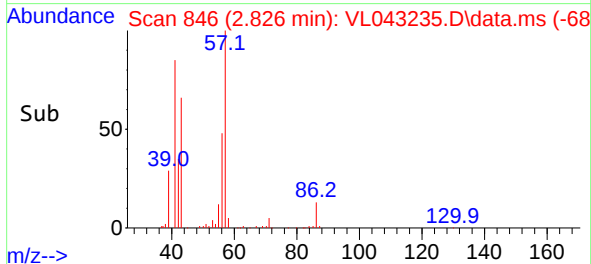
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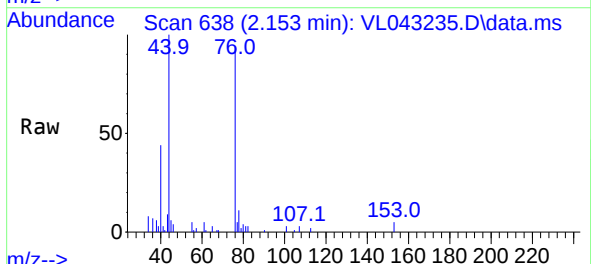
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43 71.4 179.0 268.4
56 54.1 42.3 63.5

Manual Integrations
APPROVED

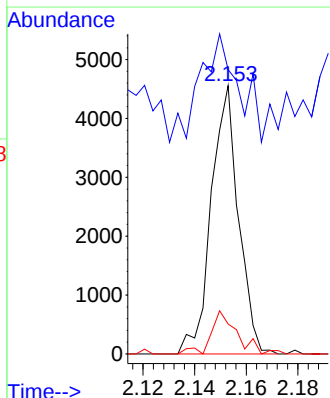
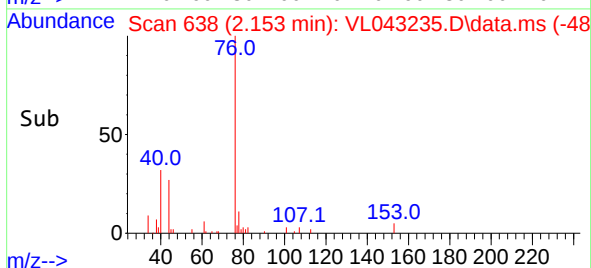
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

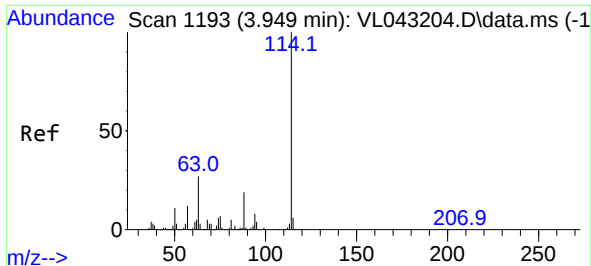


#27
Carbon Disulfide
Concen: 0.235 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43



Tgt Ion: 76 Resp: 3349
Ion Ratio Lower Upper
76 100
44 53.5 16.1 24.1#
78 15.4 9.6 14.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.007 min

Lab File: VL043235.D

Acq: 19 Nov 2025 12:43

Instrument :

MSVOA_L

ClientSampleId :

9A-SG-1

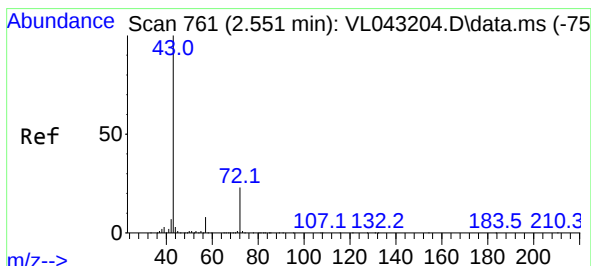
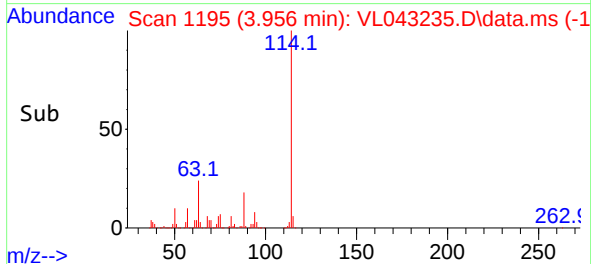
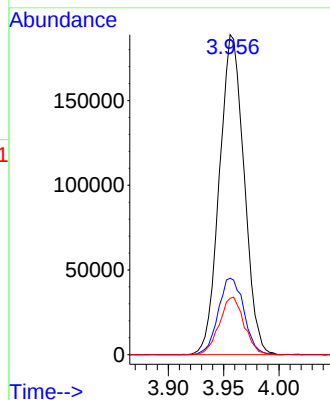
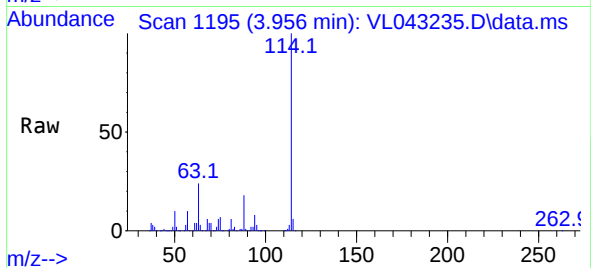
Tgt Ion:114 Resp: 292792

Ion	Ratio	Lower	Upper
114	100		
63	24.9	21.0	31.6
88	18.0	14.9	22.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#34

2-Butanone

Concen: 0.988 ppbv

RT: 2.558 min Scan# 763

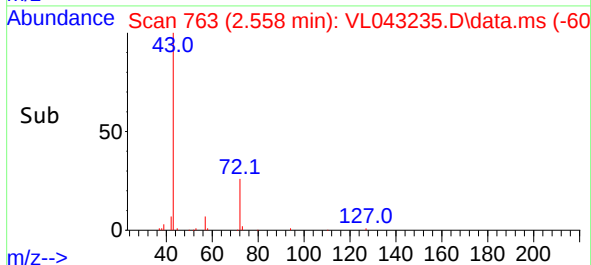
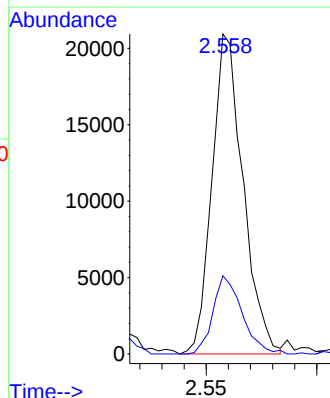
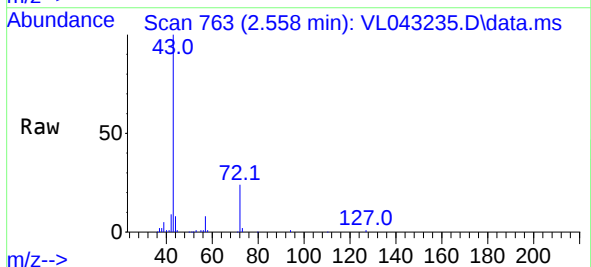
Delta R.T. 0.007 min

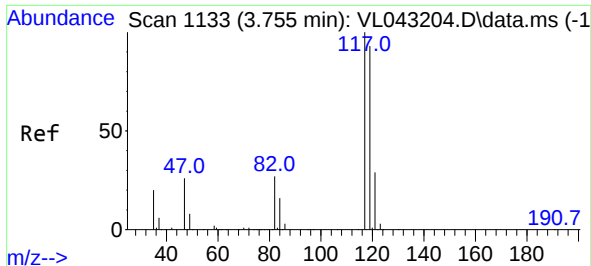
Lab File: VL043235.D

Acq: 19 Nov 2025 12:43

Tgt Ion: 43 Resp: 20420

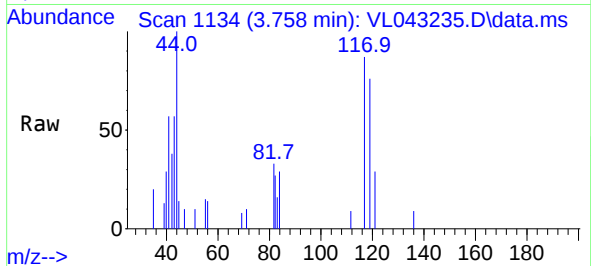
Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.1	27.1





#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.758 min Scan# 1133
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

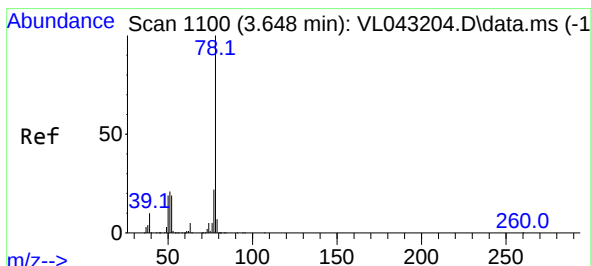
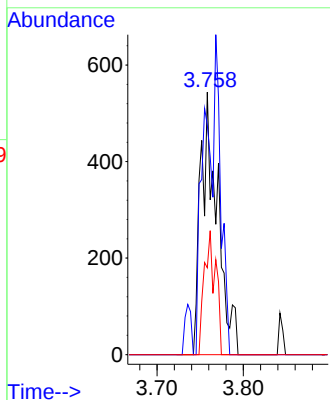
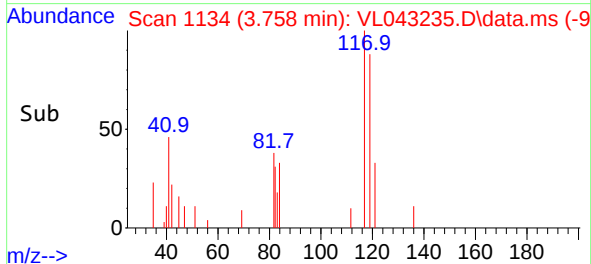
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1



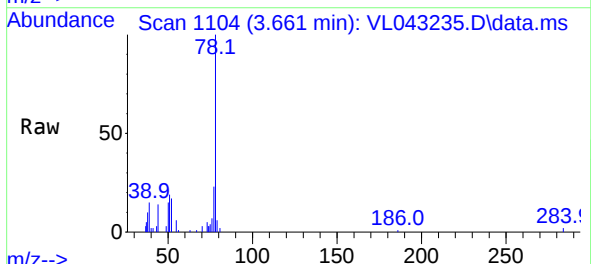
Tgt Ion: 117 Resp: 734
Ion Ratio Lower Upper
117 100
119 87.5 74.6 112.0
121 33.1 23.2 34.8

Manual Integrations
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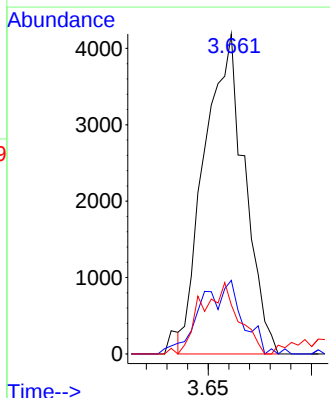
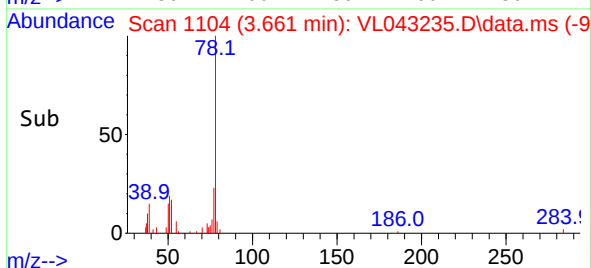
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

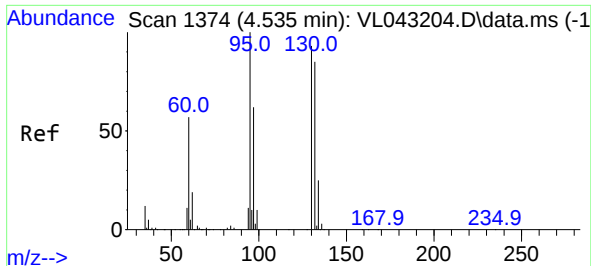


#36
Benzene
Concen: 0.202 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.013 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43



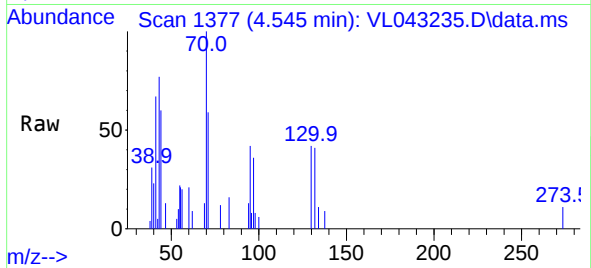
Tgt Ion: 78 Resp: 5671
Ion Ratio Lower Upper
78 100
77 23.0 17.5 26.3
50 13.8 15.5 23.3





#38
Trichloroethene
Concen: 0.057 ppbv m
RT: 4.545 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

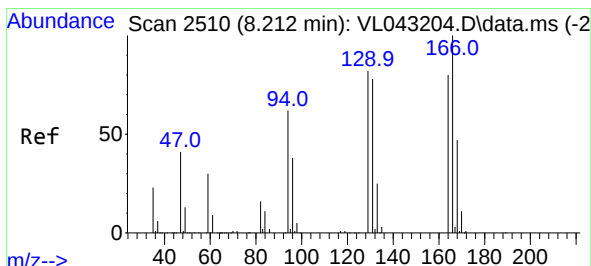
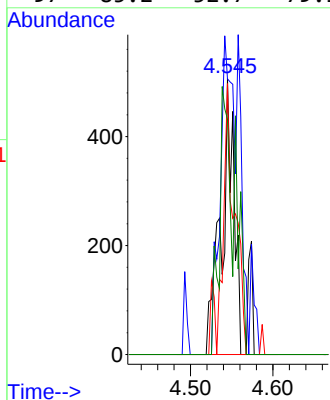
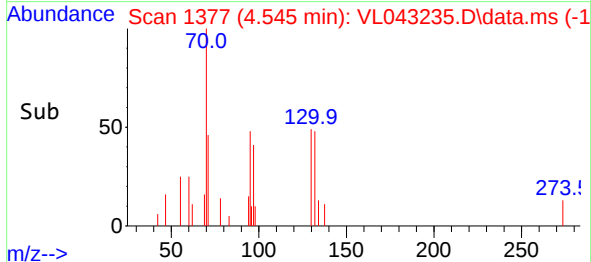
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1



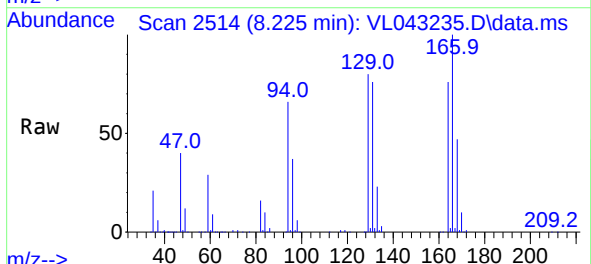
Tgt Ion:130 Resp: 625
Ion Ratio Lower Upper
130 100
95 99.8 85.7 128.5
132 98.0 73.4 110.0
97 85.2 52.7 79.1#

Manual Integrations
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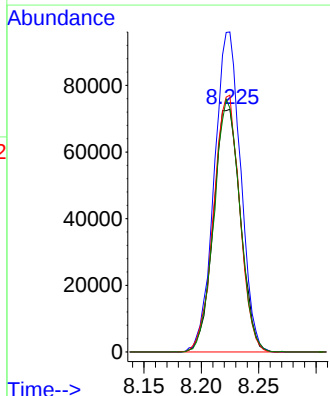
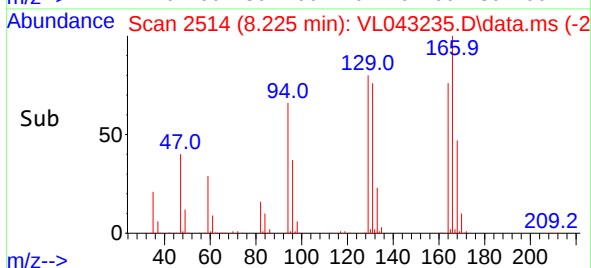
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

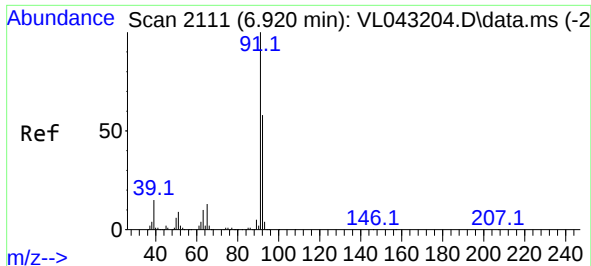


#52
Tetrachloroethene
Concen: 11.475 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.013 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43



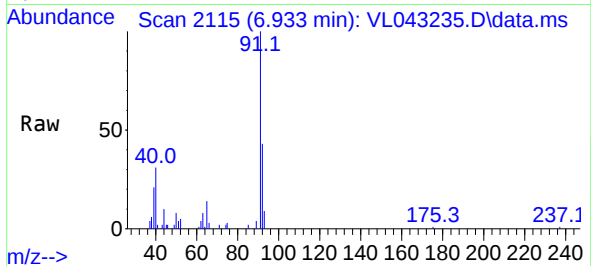
Tgt Ion:164 Resp: 119688
Ion Ratio Lower Upper
164 100
166 131.8 99.4 149.2
129 105.8 81.8 122.8
131 100.5 77.4 116.2





#53
Toluene
Concen: 0.256 ppbv m
RT: 6.933 min Scan# 2115
Delta R.T. 0.013 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

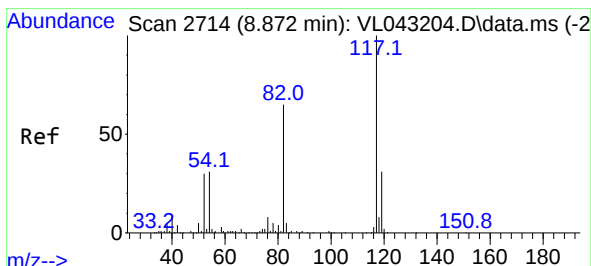
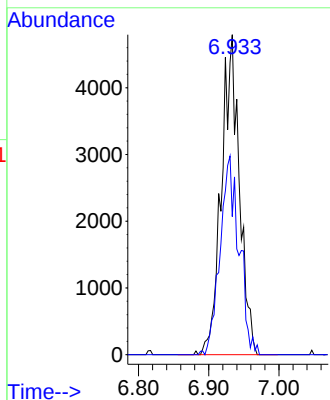
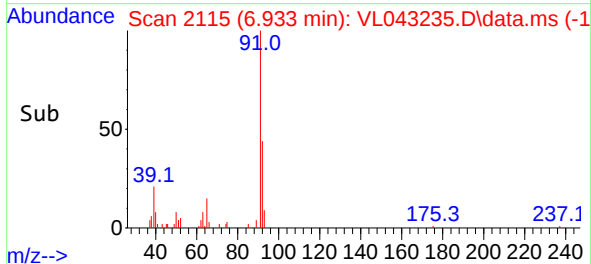
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1



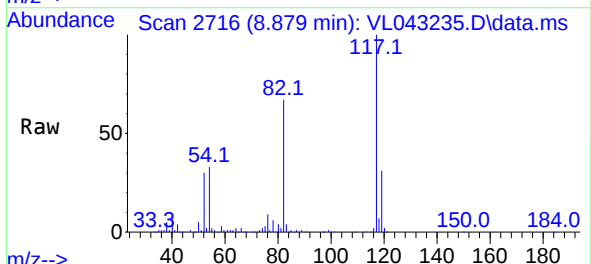
Tgt Ion: 91 Resp: 8500
Ion Ratio Lower Upper
91 100
92 65.3 47.4 71.0

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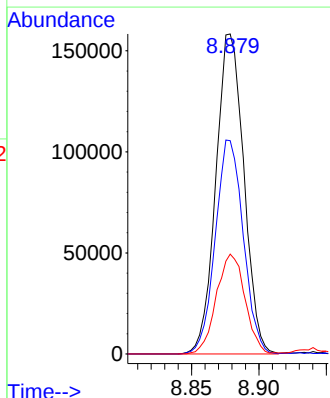
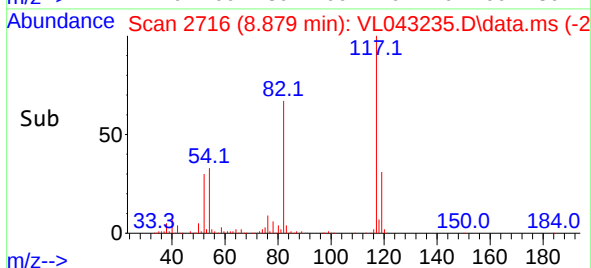
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

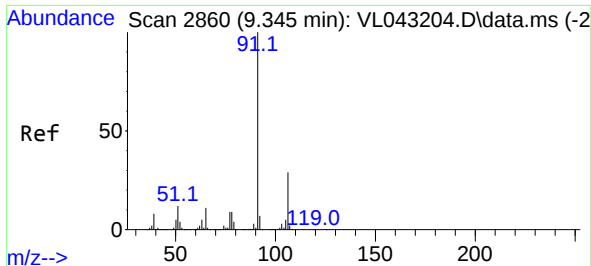


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43



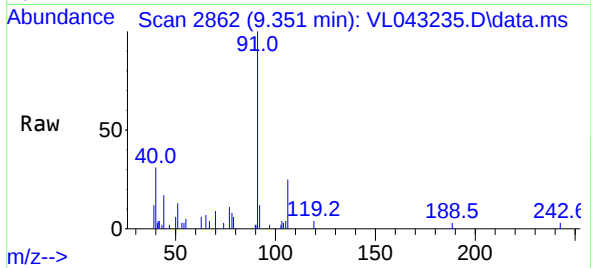
Tgt Ion:117 Resp: 229139
Ion Ratio Lower Upper
117 100
82 66.8 56.1 84.1
119 32.0 25.0 37.6





#58
Ethyl Benzene
Concen: 0.102 ppbv m
RT: 9.351 min Scan# 2918
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

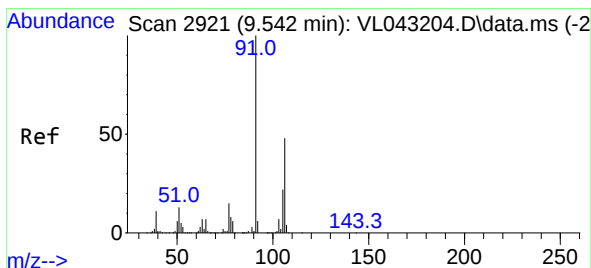
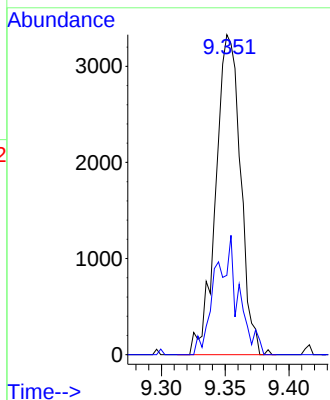
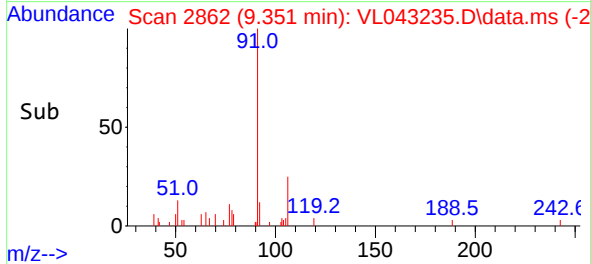
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1



Tgt Ion: 91 Resp: 448
Ion Ratio Lower Upper
91 100
106 24.8 22.8 34.2

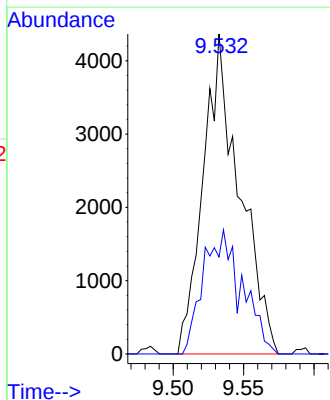
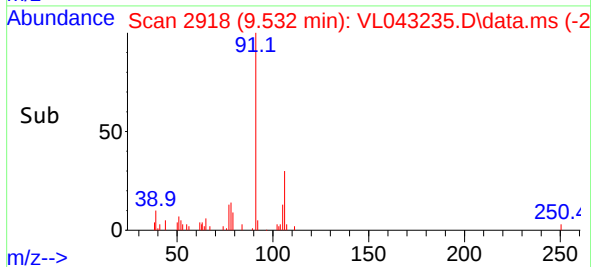
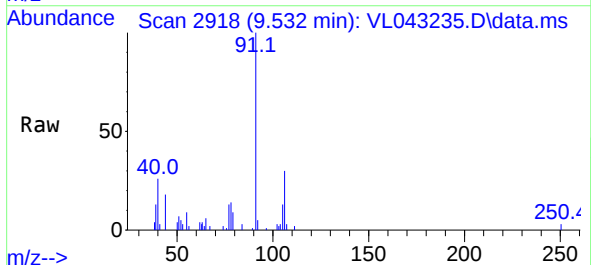
Manual Integrations
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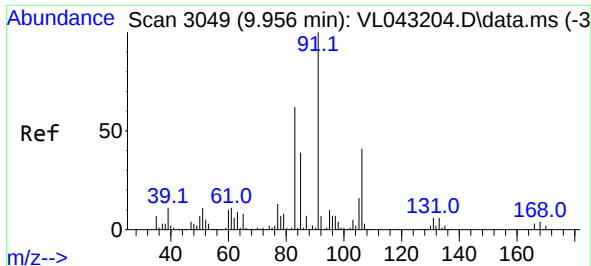
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#59
m/p-Xylene
Concen: 0.221 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.010 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion: 91 Resp: 7823
Ion Ratio Lower Upper
91 100
106 41.4 36.1 54.1





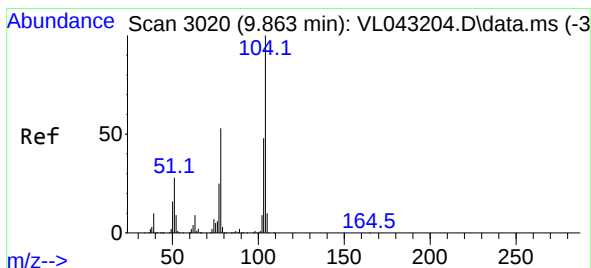
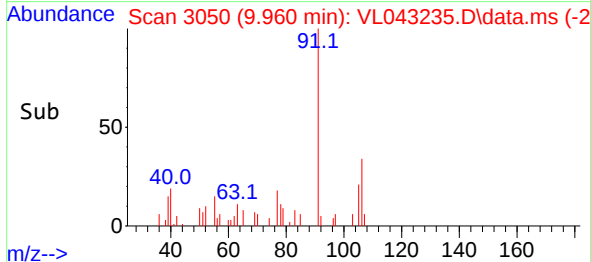
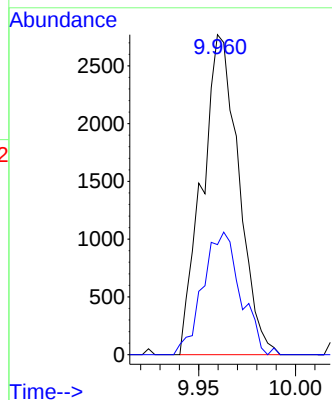
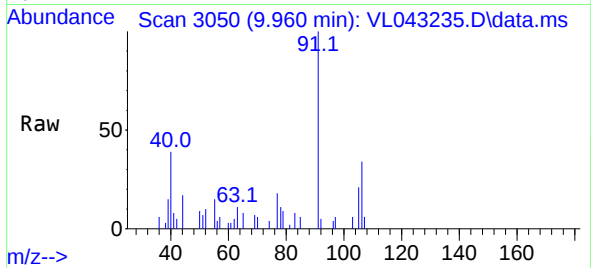
#60
o-Xylene
Concen: 0.103 ppbv
RT: 9.960 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 91 Resp: 3639
Ion Ratio Lower Upper
91 100
106 39.5 20.9 62.8

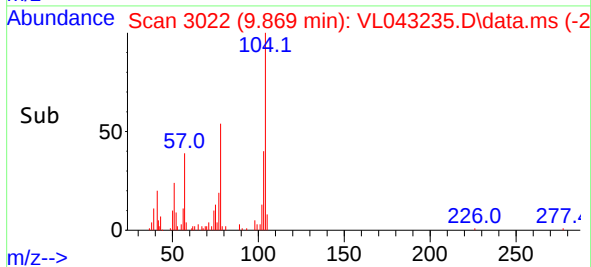
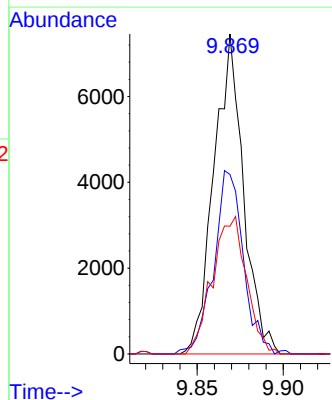
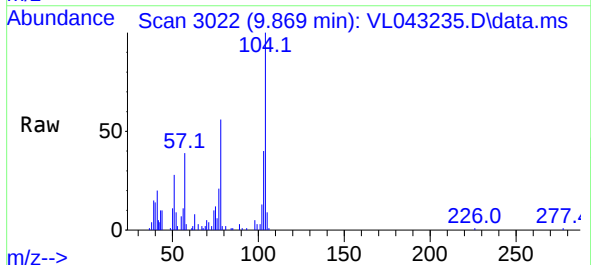
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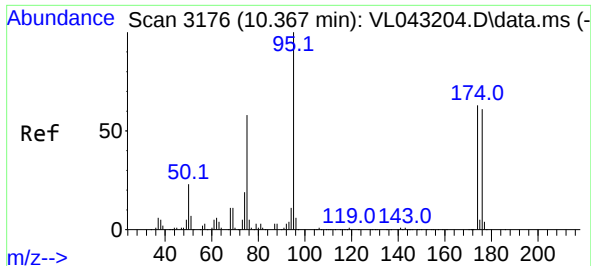
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#61
Styrene
Concen: 0.576 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Tgt Ion:104 Resp: 8898
Ion Ratio Lower Upper
104 100
78 57.8 42.1 63.1
103 49.8 37.2 55.8





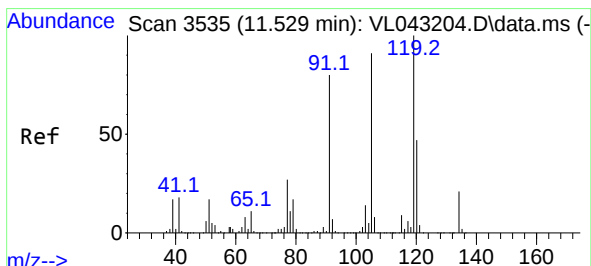
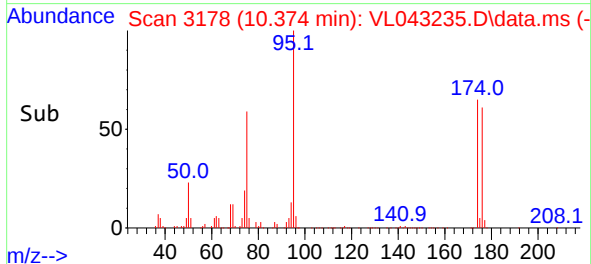
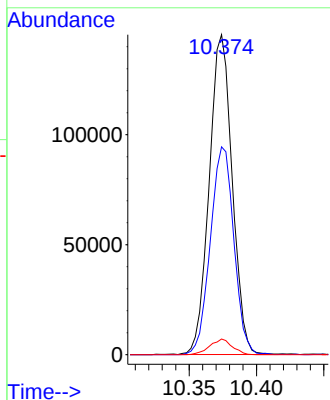
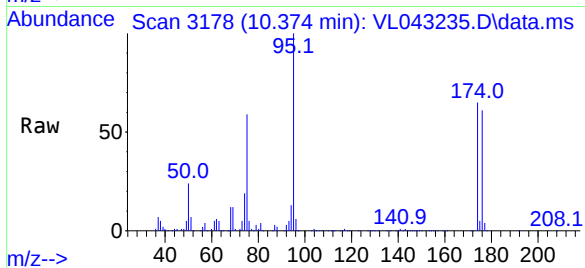
#68
1-Bromo-4-Fluorobenzene
Concen: 10.267 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1

Tgt Ion: 95 Resp: 17243
Ion Ratio Lower Upper
95 100
174 66.7 50.2 75.2
175 4.7 4.1 6.1

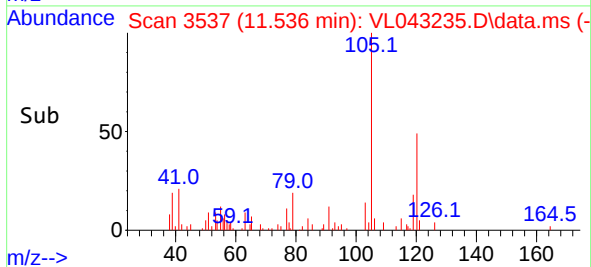
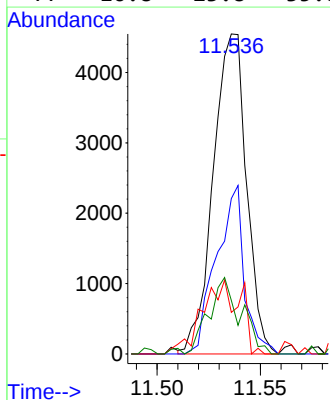
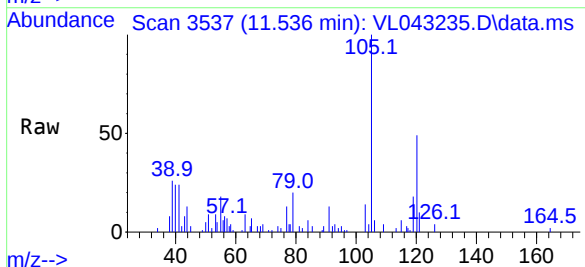
Manual Integrations
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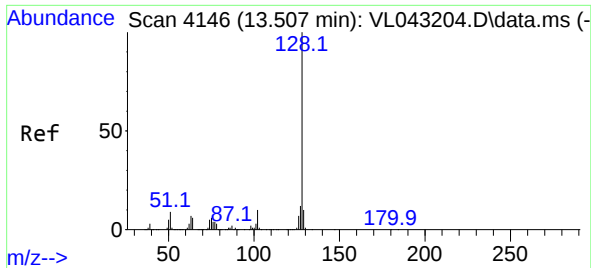
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.007 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

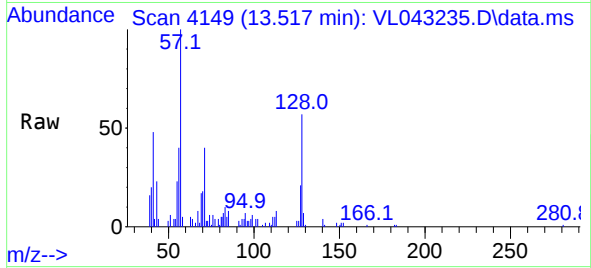
Tgt Ion:105 Resp: 5098
Ion Ratio Lower Upper
105 100
120 48.6 41.7 62.5
91 13.0 70.0 105.0#
77 16.8 23.8 35.8#





#79
Naphthalene
Concen: 0.105 ppbv m
RT: 13.517 min Scan# 4146
Delta R.T. 0.010 min
Lab File: VL043235.D
Acq: 19 Nov 2025 12:43

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-1



Tgt Ion:128 Resp: 3660

Ion	Ratio	Lower	Upper
128	100		
127	37.5	9.9	14.9
129	12.0	8.4	12.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

