

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
 Data File : VL043264.D
 Acq On : 20 Nov 2025 14:32
 Operator : SY/MD
 Sample : Q3655-04 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4

Manual Integrations
 APPROVED

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

Quant Time: Nov 21 00:39:05 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	2.781	49	105685	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	273349	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	207697	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	149369	9.811	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	4384	0.294	ppbv	99
3) Chlorodifluoromethane	1.470	51	1836m	0.125	ppbv	
4) Chloromethane	1.531	50	1762	0.316	ppbv #	85
9) Propene	1.486	41	1459	0.234	ppbv #	1
11) Trichlorofluoromethane	1.878	101	2322	0.161	ppbv #	82
13) Ethanol	1.719	45	3212	1.467	ppbv #	38
15) Acetone	1.832	43	27467	1.871	ppbv	100
17) tert-Butyl alcohol	2.039	59	3663	0.190	ppbv	95
19) Isopropyl Alcohol	1.884	45	11013	1.327	ppbv #	59
20) Methylene Chloride	2.059	84	6390	0.751	ppbv #	88
26) Hexane	2.823	57	6555	0.472	ppbv #	45
34) 2-Butanone	2.554	43	10341	0.536	ppbv	97
35) Carbon Tetrachloride	3.758	117	737m	0.036	ppbv	
52) Tetrachloroethene	8.215	164	31930	3.279	ppbv	94
53) Toluene	6.917	91	5118m	0.165	ppbv	
59) m/p-Xylene	9.522	91	5280m	0.165	ppbv	
74) 1,2,4-Trimethylbenzene	11.529	105	3815	0.107	ppbv #	55

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

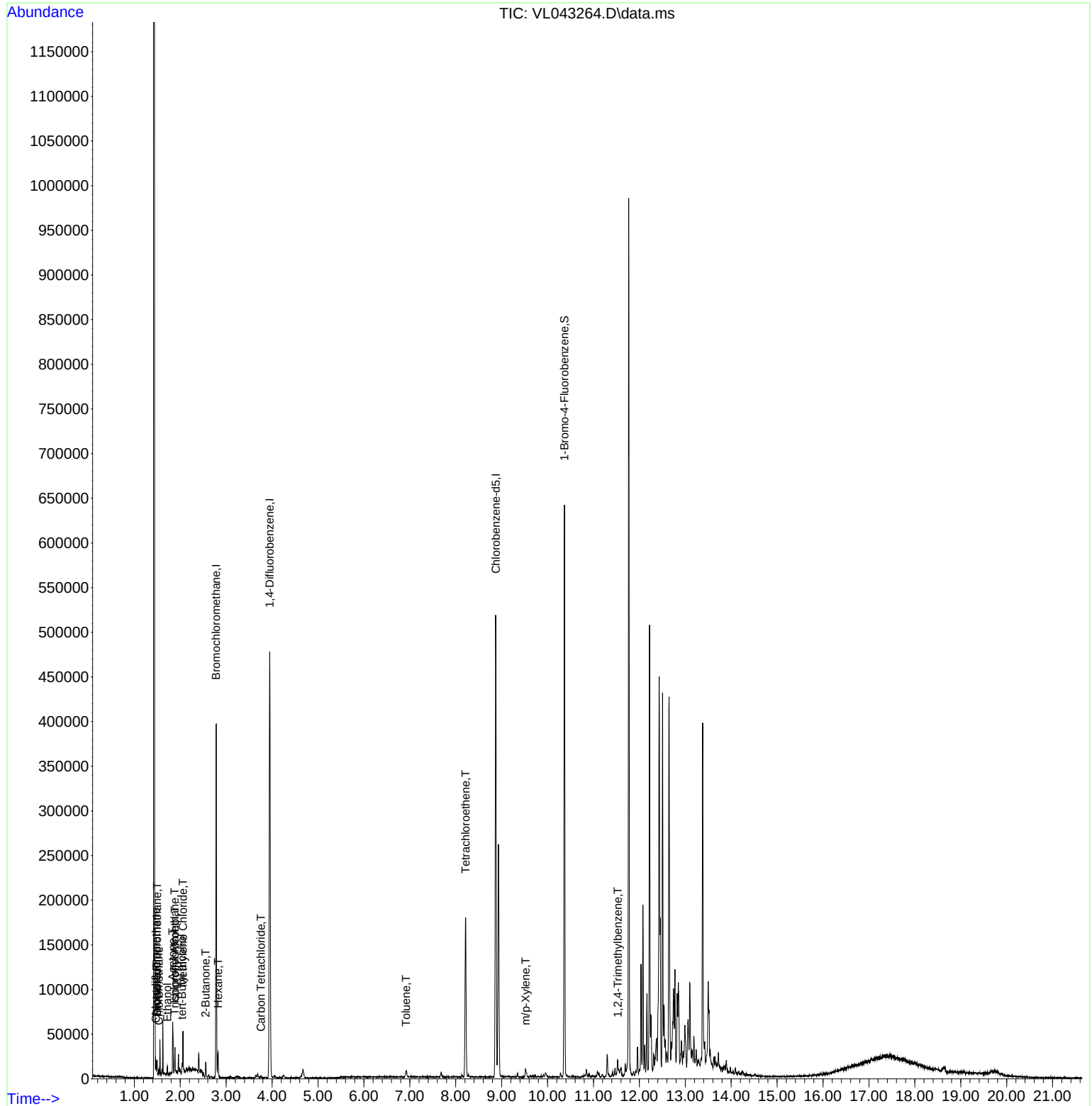
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043264.D
Acq On : 20 Nov 2025 14:32
Operator : SY/MD
Sample : Q3655-04 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

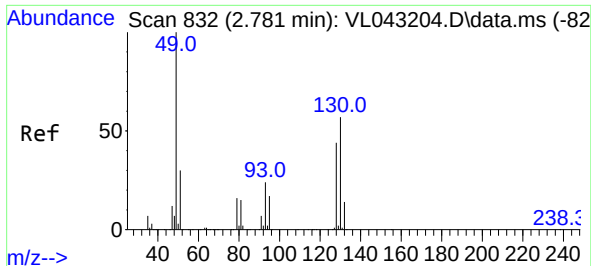
Instrument :
MSVOA_L
ClientSampleId :
SG-4

Quant Time: Nov 21 00:39:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

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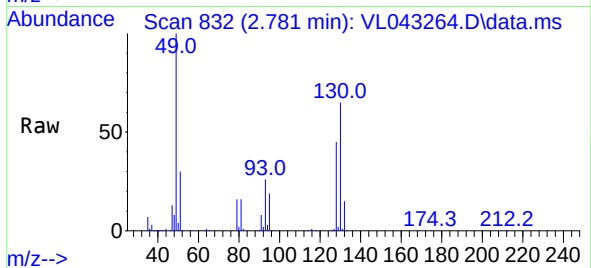
Reviewed By : Semsettin Yesilyurt 11/21/2025
Supervised By : Mahesh Dadoda 11/21/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32

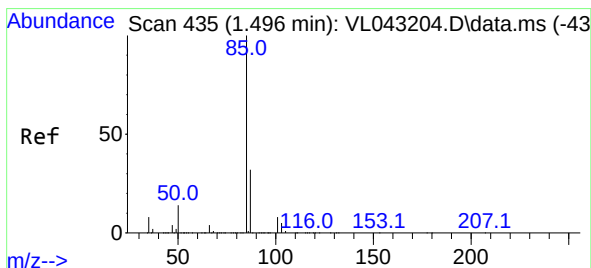
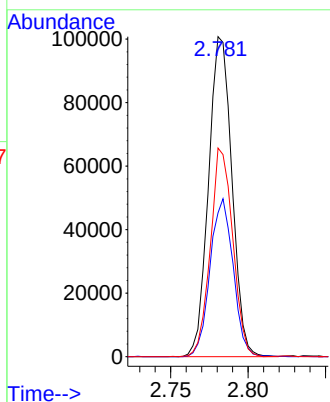
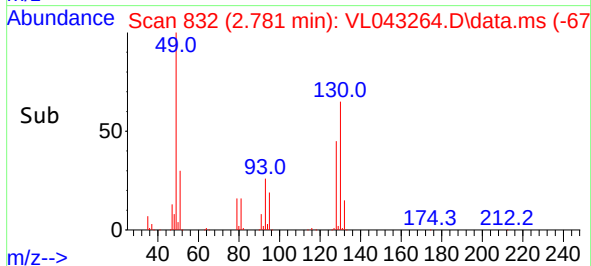
Instrument :
MSVOA_L
ClientSampleId :
SG-4



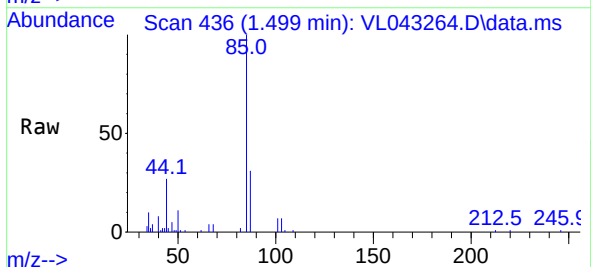
Tgt Ion: 49 Resp: 10568
Ion Ratio Lower Upper
49 100
128 48.8 23.0 69.0
130 62.7 29.9 89.7

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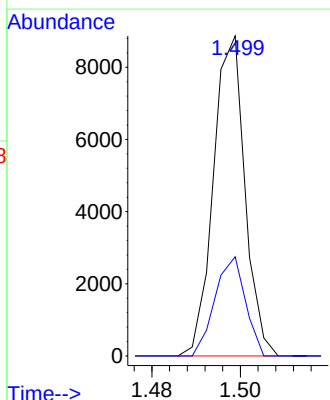
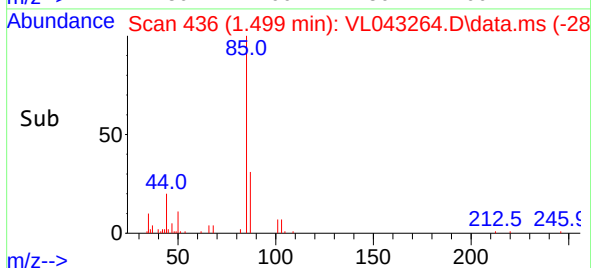
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

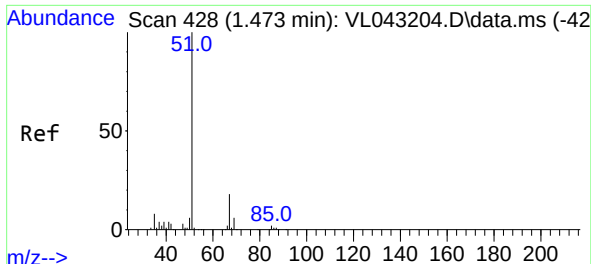


#2
Dichlorodifluoromethane
Concen: 0.294 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32



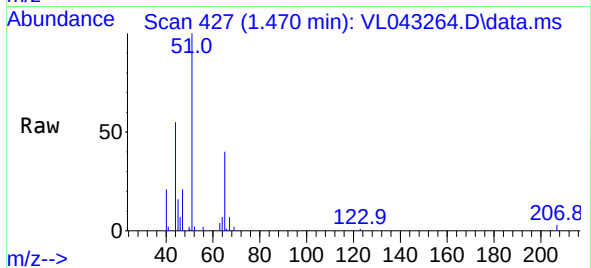
Tgt Ion: 85 Resp: 4384
Ion Ratio Lower Upper
85 100
87 31.0 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.125 ppbv m
RT: 1.470 min Scan# 428
Delta R.T. -0.003 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32

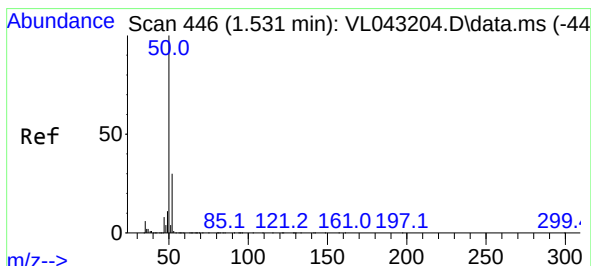
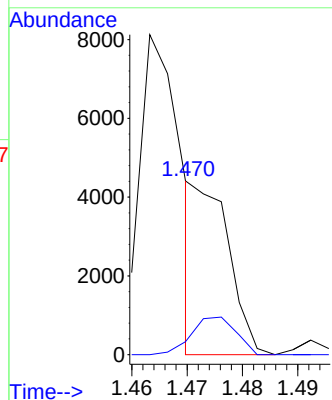
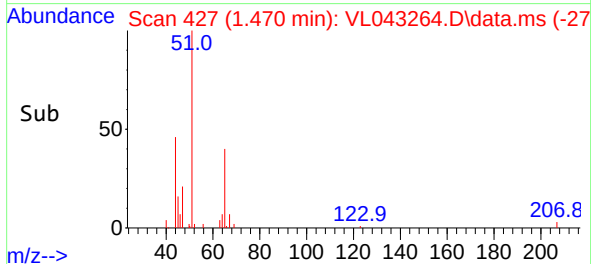
Instrument :
MSVOA_L
ClientSampleId :
SG-4



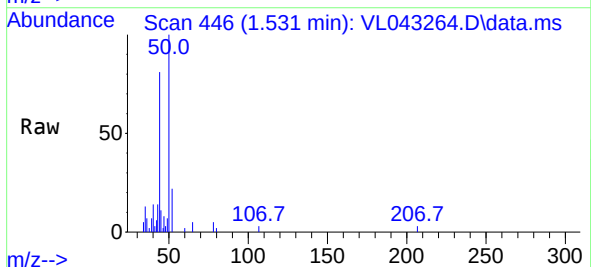
Tgt Ion: 51 Resp: 1830
Ion Ratio Lower Upper
51 100
67 7.0 14.9 22.3

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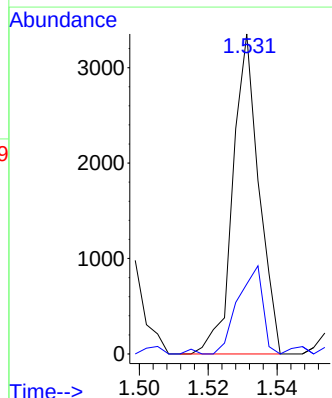
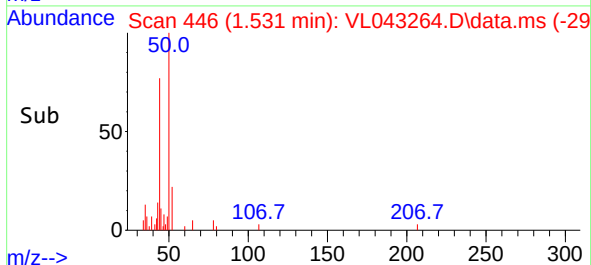
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

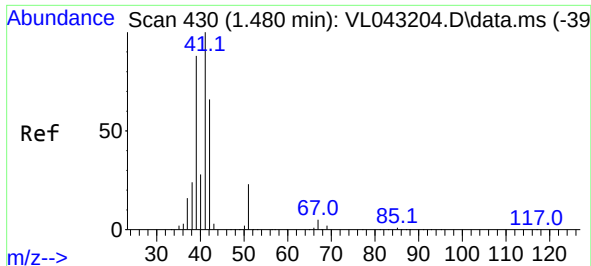


#4
Chloromethane
Concen: 0.316 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32



Tgt Ion: 50 Resp: 1762
Ion Ratio Lower Upper
50 100
52 21.9 24.1 36.1





#9

Propene

Concen: 0.234 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043264.D

Acq: 20 Nov 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

SG-4

Tgt Ion: 41 Resp: 1458

Ion Ratio Lower Upper

41 100

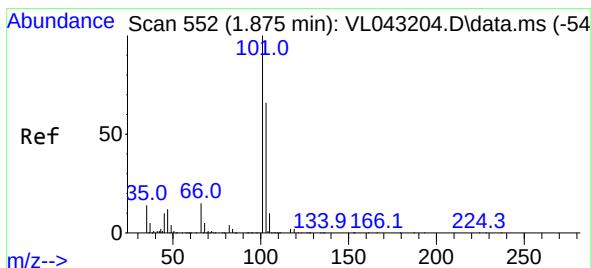
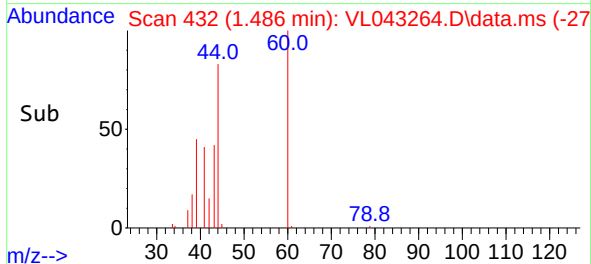
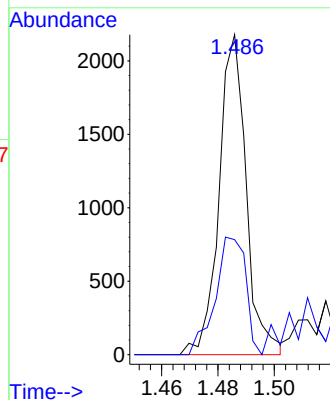
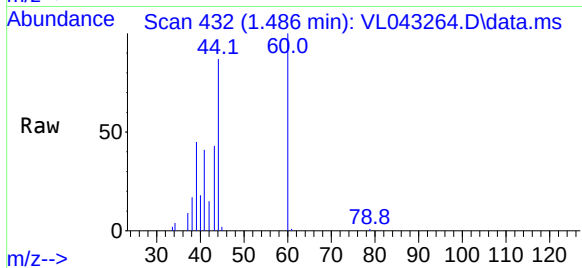
42 57.7 3.7 5.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/21/2025

Supervised By :Mahesh Dadoda 11/21/2025



#11

Trichlorofluoromethane

Concen: 0.161 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL043264.D

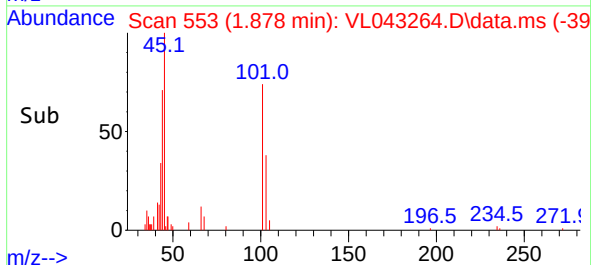
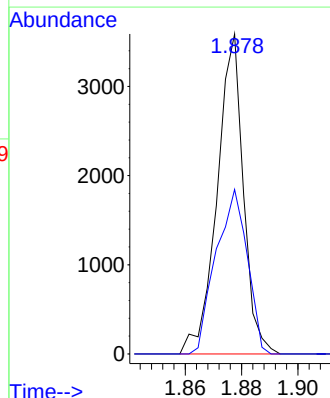
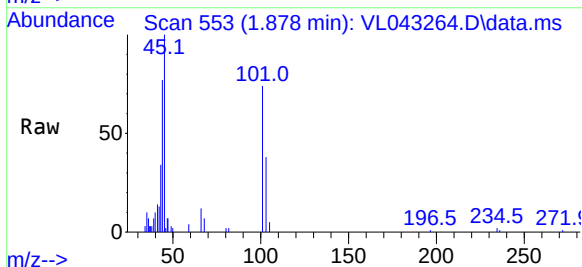
Acq: 20 Nov 2025 14:32

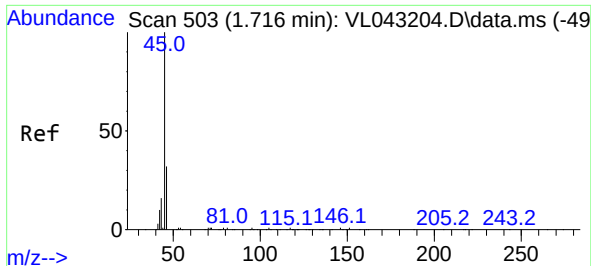
Tgt Ion:101 Resp: 2322

Ion Ratio Lower Upper

101 100

103 51.4 52.6 79.0#





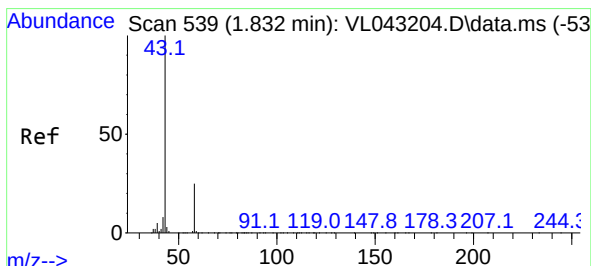
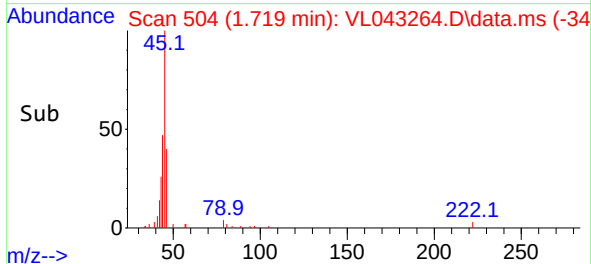
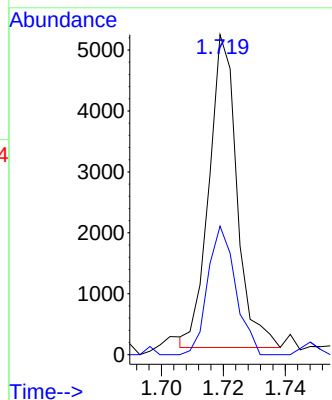
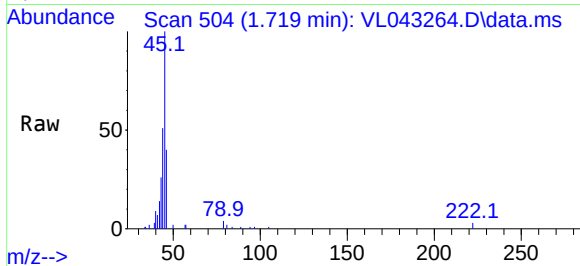
#13
Ethanol
Concen: 1.467 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
SG-4

Tgt Ion: 45 Resp: 3212
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8

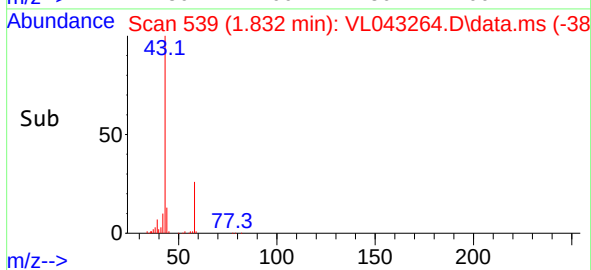
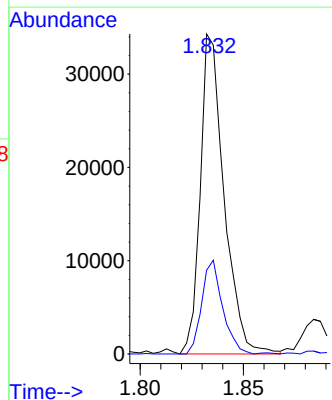
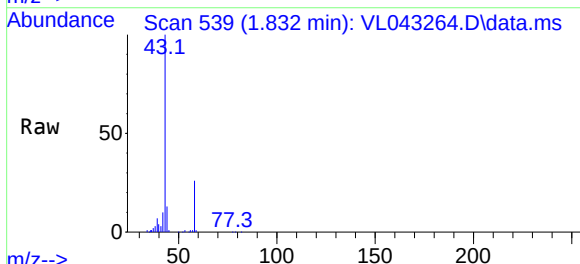
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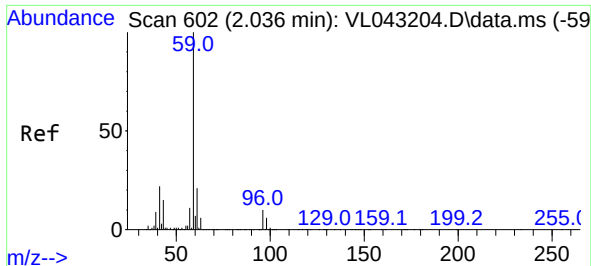
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#15
Acetone
Concen: 1.871 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32

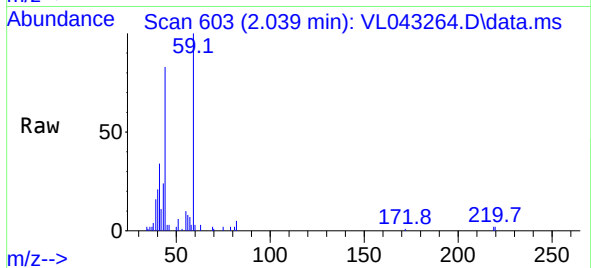
Tgt Ion: 43 Resp: 27467
Ion Ratio Lower Upper
43 100
58 25.8 20.7 31.1





#17
tert-Butyl alcohol
Concen: 0.190 ppbv
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32

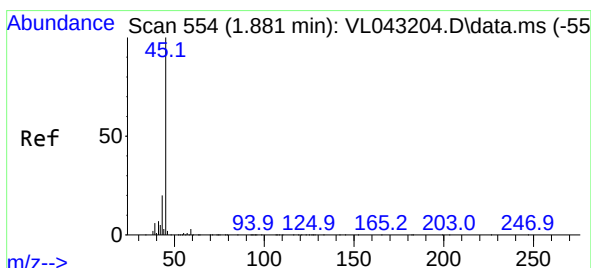
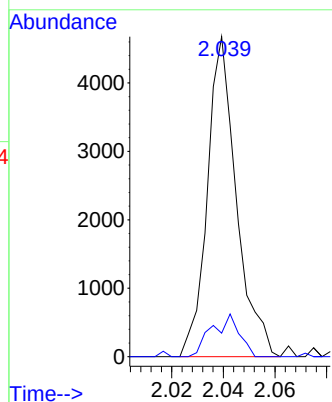
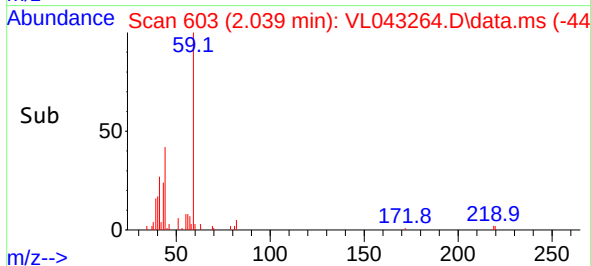
Instrument :
MSVOA_L
ClientSampleId :
SG-4



Tgt Ion: 59 Resp: 366
Ion Ratio Lower Upper
59 100
57 13.0 9.0 13.4

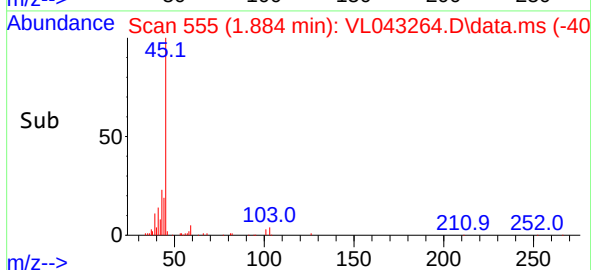
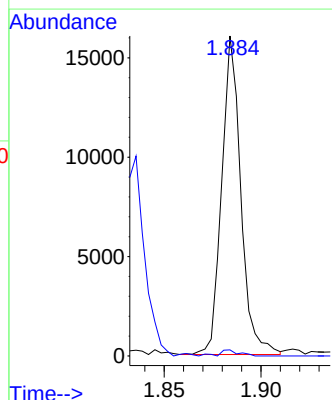
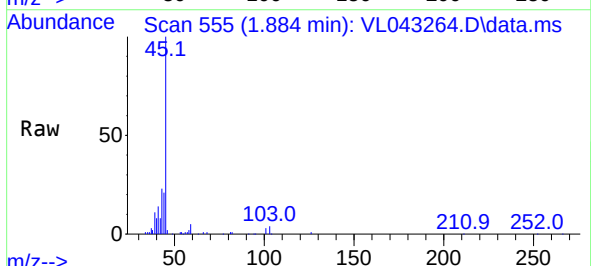
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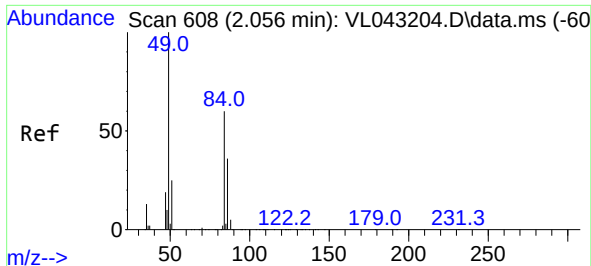
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#19
Isopropyl Alcohol
Concen: 1.327 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32

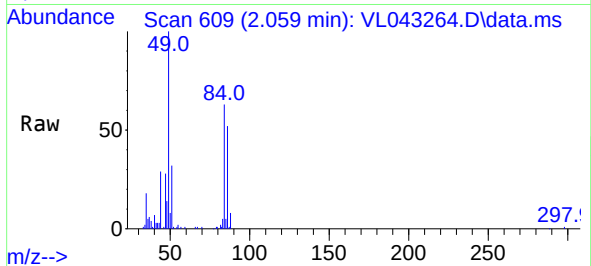
Tgt Ion: 45 Resp: 11013
Ion Ratio Lower Upper
45 100
58 64.3 31.3 46.9#





#20
Methylene Chloride
Concen: 0.751 ppbv
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32

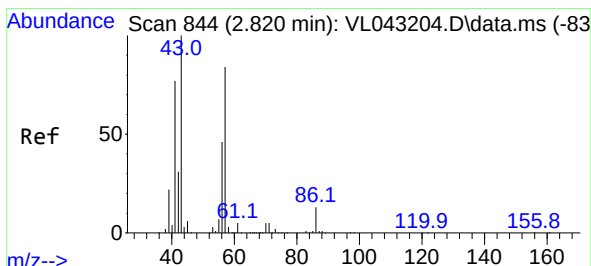
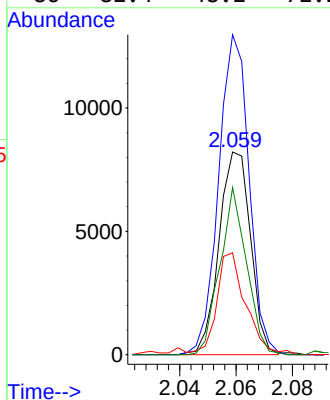
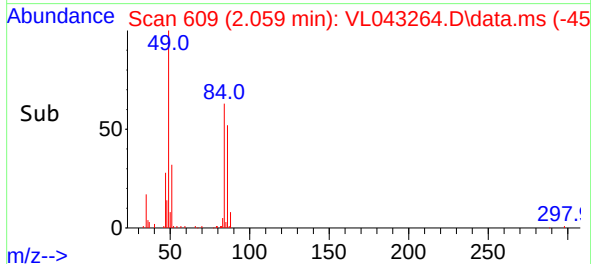
Instrument :
MSVOA_L
ClientSampleId :
SG-4



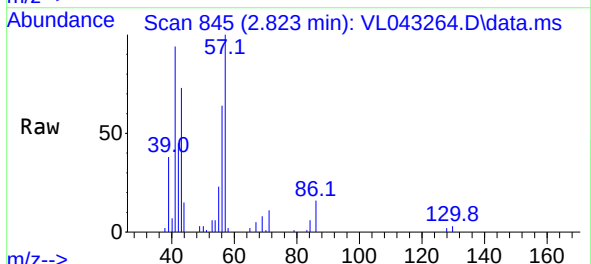
Tgt Ion: 84 Resp: 6390
Ion Ratio Lower Upper
84 100
49 157.8 132.9 199.3
51 48.8 34.8 52.2
86 82.4 48.2 72.2#

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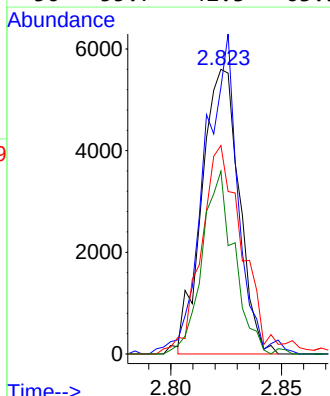
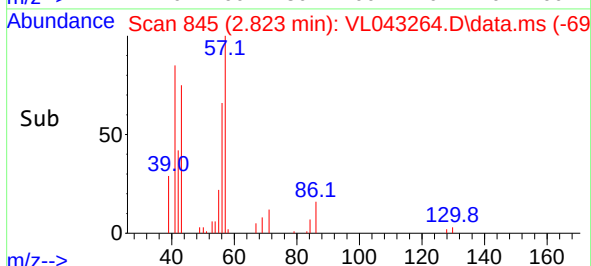
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

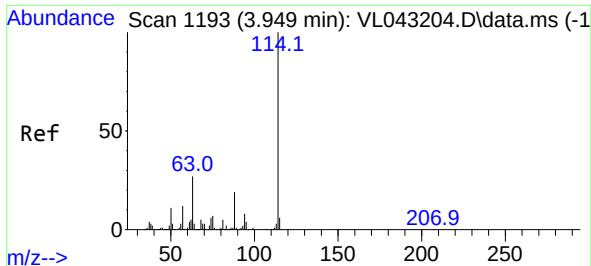


#26
Hexane
Concen: 0.472 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32



Tgt Ion: 57 Resp: 6555
Ion Ratio Lower Upper
57 100
41 101.8 74.6 111.8
43 82.6 179.0 268.4#
56 55.7 42.3 63.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VL043264.D

Acq: 20 Nov 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

SG-4

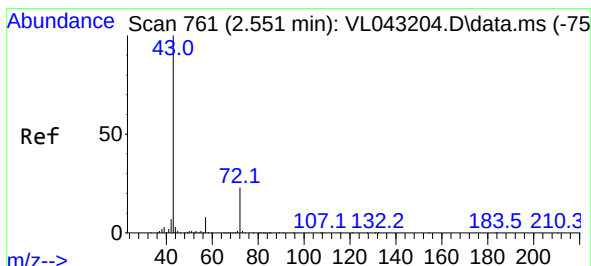
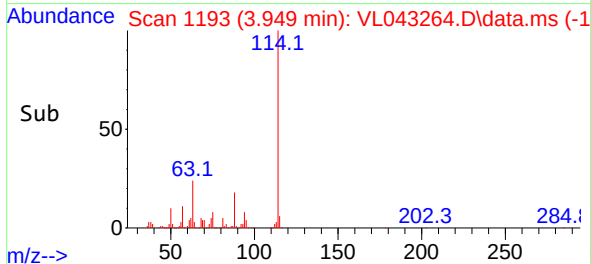
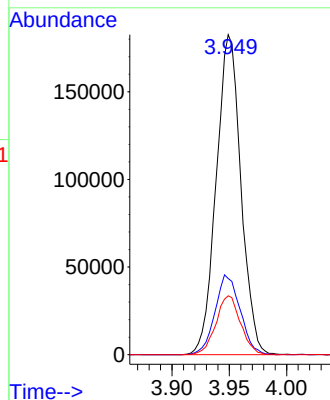
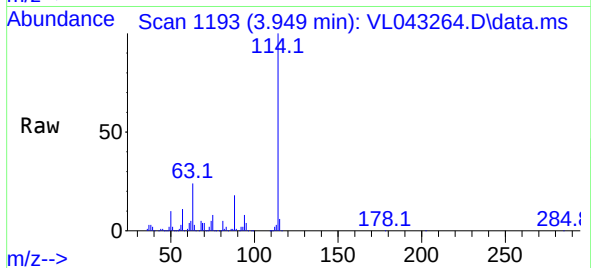
Tgt Ion:114 Resp: 273349

Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.0	31.6
88	18.4	14.9	22.3

Manual Integrations

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#34

2-Butanone

Concen: 0.536 ppbv

RT: 2.554 min Scan# 762

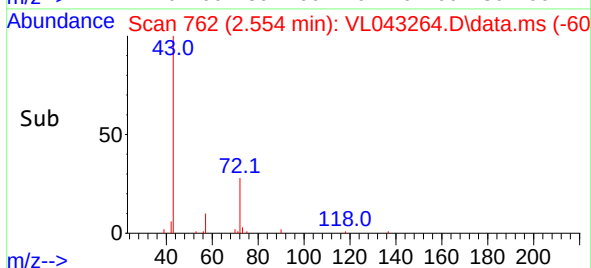
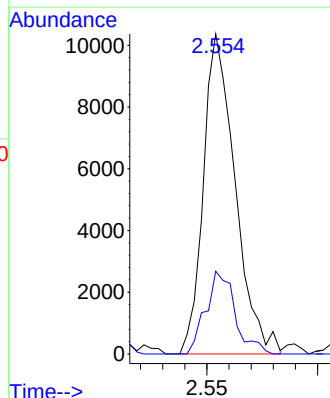
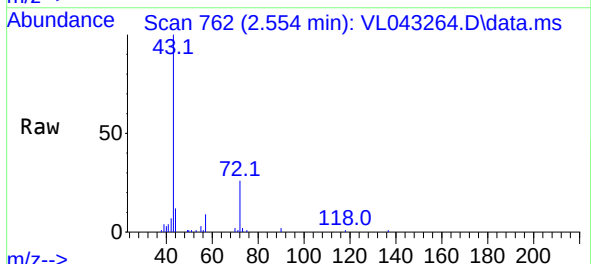
Delta R.T. 0.003 min

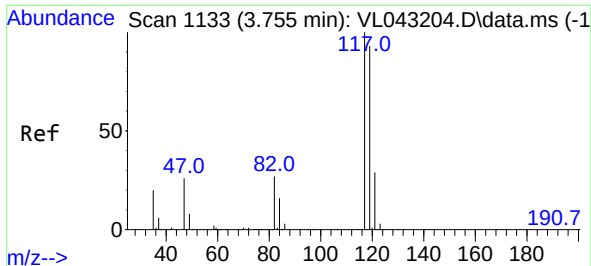
Lab File: VL043264.D

Acq: 20 Nov 2025 14:32

Tgt Ion: 43 Resp: 10341

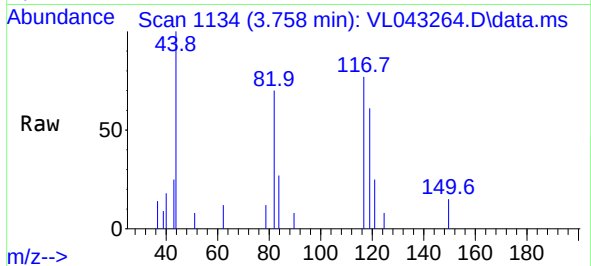
Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.1	27.1





#35
Carbon Tetrachloride
Concen: 0.036 ppbv m
RT: 3.758 min Scan# 1133
Delta R.T. 0.003 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32

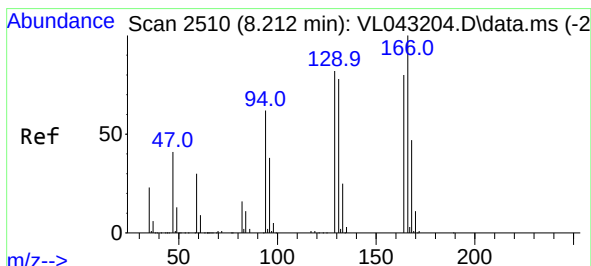
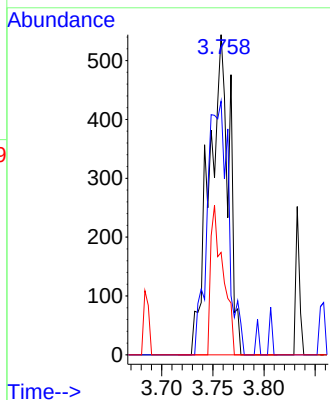
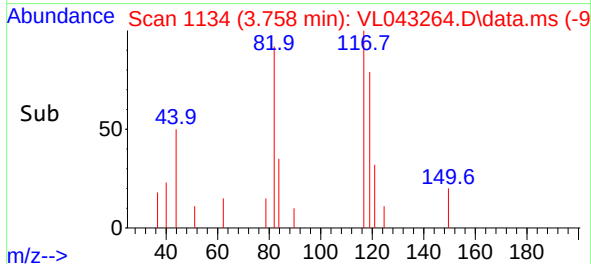
Instrument :
MSVOA_L
ClientSampleId :
SG-4



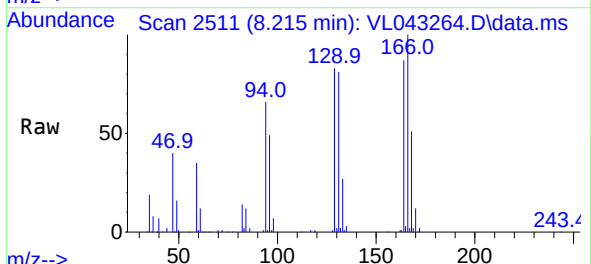
Tgt Ion:117 Resp: 73
Ion Ratio Lower Upper
117 100
119 79.2 74.6 112.0
121 32.0 23.2 34.8

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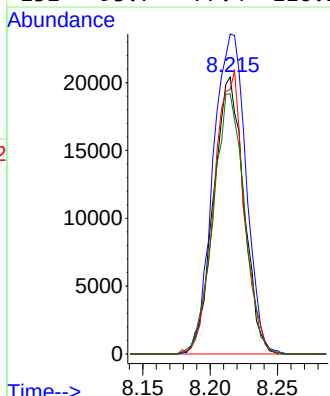
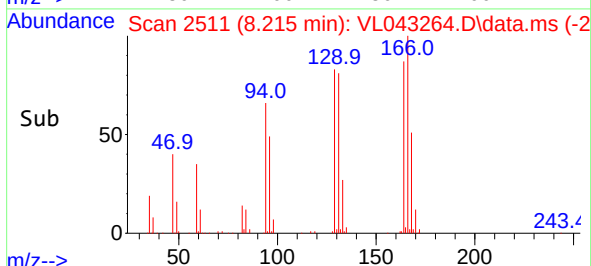
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

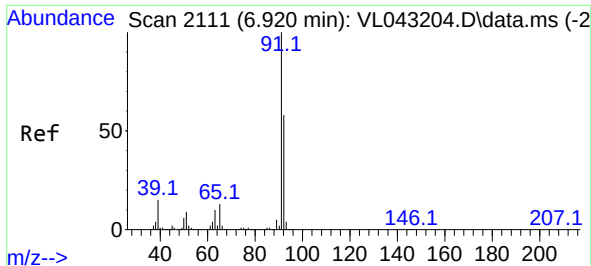


#52
Tetrachloroethene
Concen: 3.279 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32



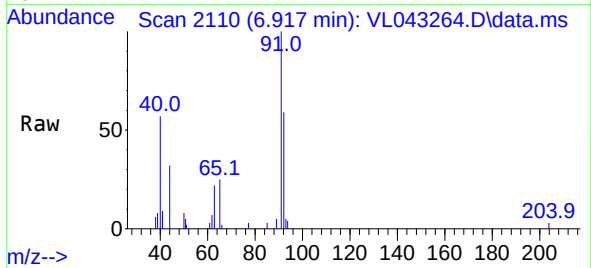
Tgt Ion:164 Resp: 31930
Ion Ratio Lower Upper
164 100
166 115.6 99.4 149.2
129 95.5 81.8 122.8
131 93.7 77.4 116.2





#53
Toluene
Concen: 0.165 ppbv m
RT: 6.917 min Scan# 2111
Delta R.T. -0.003 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32

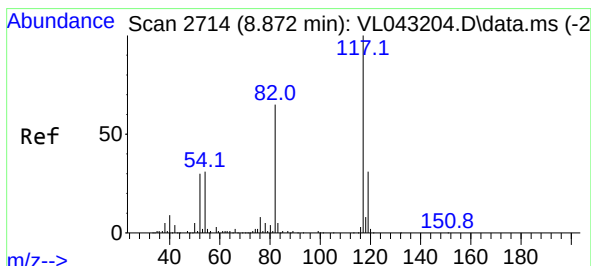
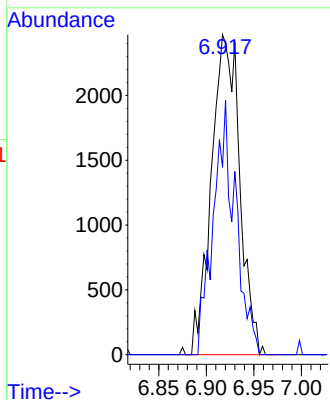
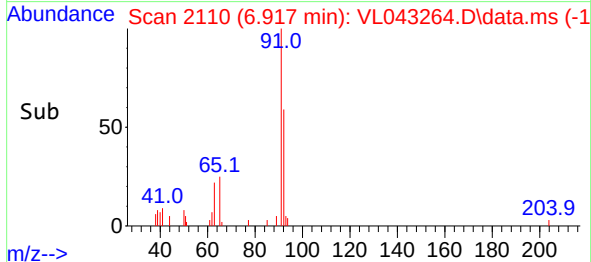
Instrument :
MSVOA_L
ClientSampleId :
SG-4



Tgt Ion: 91 Resp: 5118
Ion Ratio Lower Upper
91 100
92 62.2 47.4 71.0

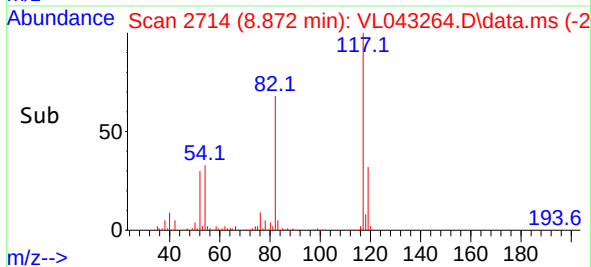
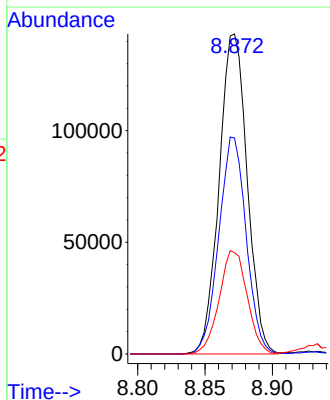
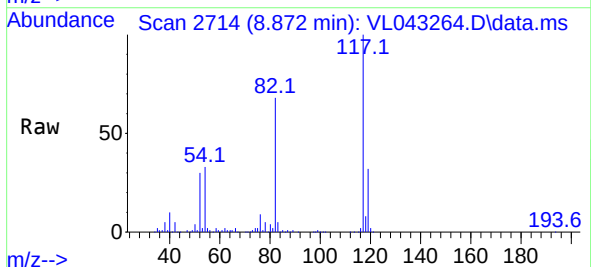
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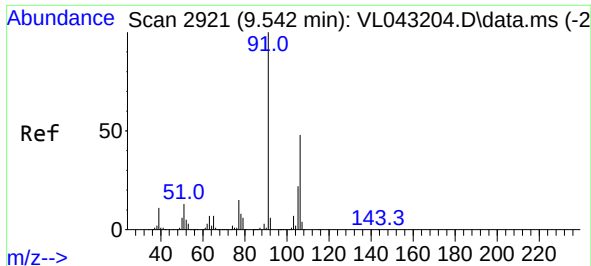
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043264.D
Acq: 20 Nov 2025 14:32

Tgt Ion:117 Resp: 207697
Ion Ratio Lower Upper
117 100
82 66.2 56.1 84.1
119 32.3 25.0 37.6





#59

m/p-Xylene

Concen: 0.165 ppbv m

RT: 9.522 min Scan# 2921

Delta R.T. -0.020 min

Lab File: VL043264.D

Acq: 20 Nov 2025 14:32

Instrument :

MSVOA_L

ClientSampleId :

SG-4

Tgt Ion: 91 Resp: 5280

Ion Ratio Lower Upper

91 100

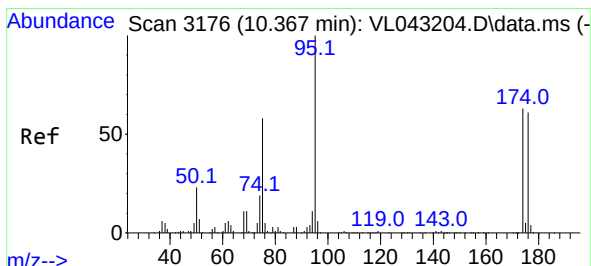
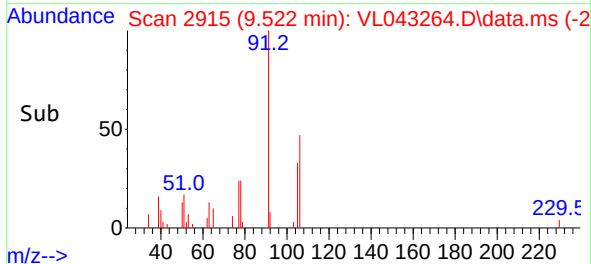
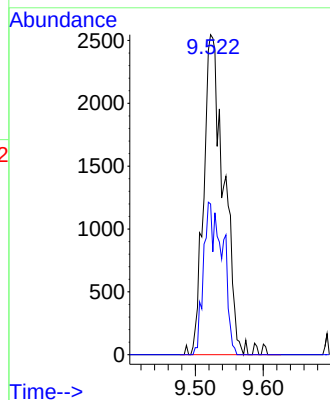
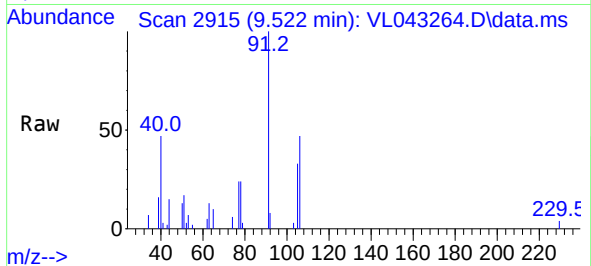
106 0.0 36.1 54.1

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Reviewed By :Semsettin Yesilyurt 11/21/2025

Supervised By :Mahesh Dadoda 11/21/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.811 ppbv

RT: 10.367 min Scan# 3176

Delta R.T. -0.000 min

Lab File: VL043264.D

Acq: 20 Nov 2025 14:32

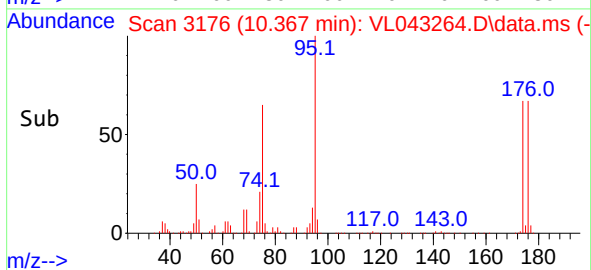
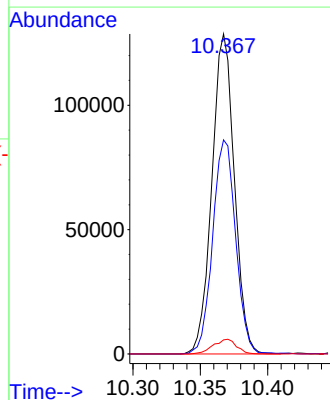
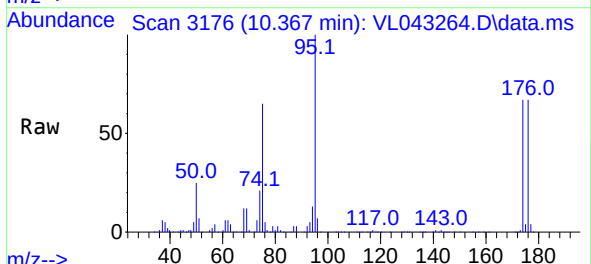
Tgt Ion: 95 Resp: 149369

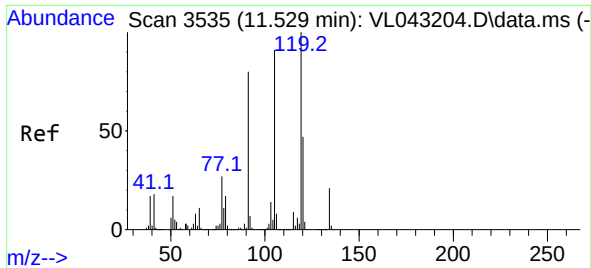
Ion Ratio Lower Upper

95 100

174 68.6 50.2 75.2

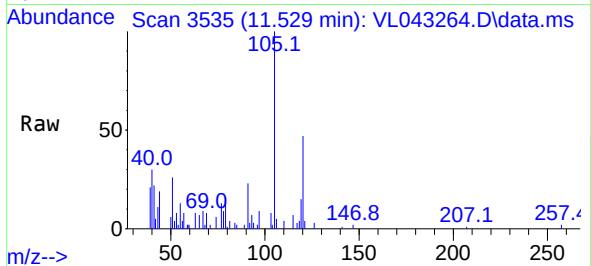
175 4.8 4.1 6.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.107 ppbv
 RT: 11.529 min Scan# 3535
 Delta R.T. -0.000 min
 Lab File: VL043264.D
 Acq: 20 Nov 2025 14:32

Instrument : MSVOA_L
 ClientSampleId : SG-4



Tgt Ion:	105	Resp:	381
Ion	Ratio	Lower	Upper
105	100		
120	47.3	41.7	62.5
91	20.1	70.0	105.0
77	13.3	23.8	35.8

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

