

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043218.D
 Acq On : 18 Nov 2025 18:15
 Operator : SY/MD
 Sample : Q3650-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:38:10 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	98200	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	259525	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	203499	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	154823	10.379	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	5572	0.402	ppbv	99
3) Chlorodifluoromethane	1.476	51	2927m	0.215	ppbv	
4) Chloromethane	1.531	50	2438	0.471	ppbv	98
9) Propene	1.489	41	4038	0.698	ppbv #	86
11) Trichlorofluoromethane	1.877	101	2694	0.201	ppbv	87
13) Ethanol	1.722	45	89190	43.851	ppbv	99
15) Acetone	1.835	43	695771	50.997	ppbv	100
19) Isopropyl Alcohol	1.884	45	73444	9.527	ppbv #	1
20) Methylene Chloride	2.062	84	4770	0.436	ppbv #	89
26) Hexane	2.826	57	2400	0.186	ppbv #	12
34) 2-Butanone	2.557	43	4492	0.245	ppbv	98
35) Carbon Tetrachloride	3.758	117	1348m	0.068	ppbv	
43) Methyl Methacrylate	4.878	69	6969m	0.528	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	4267m	0.100	ppbv	
53) Toluene	6.923	91	14272	0.485	ppbv	94
59) m/p-Xylene	9.529	91	6905m	0.220	ppbv	

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

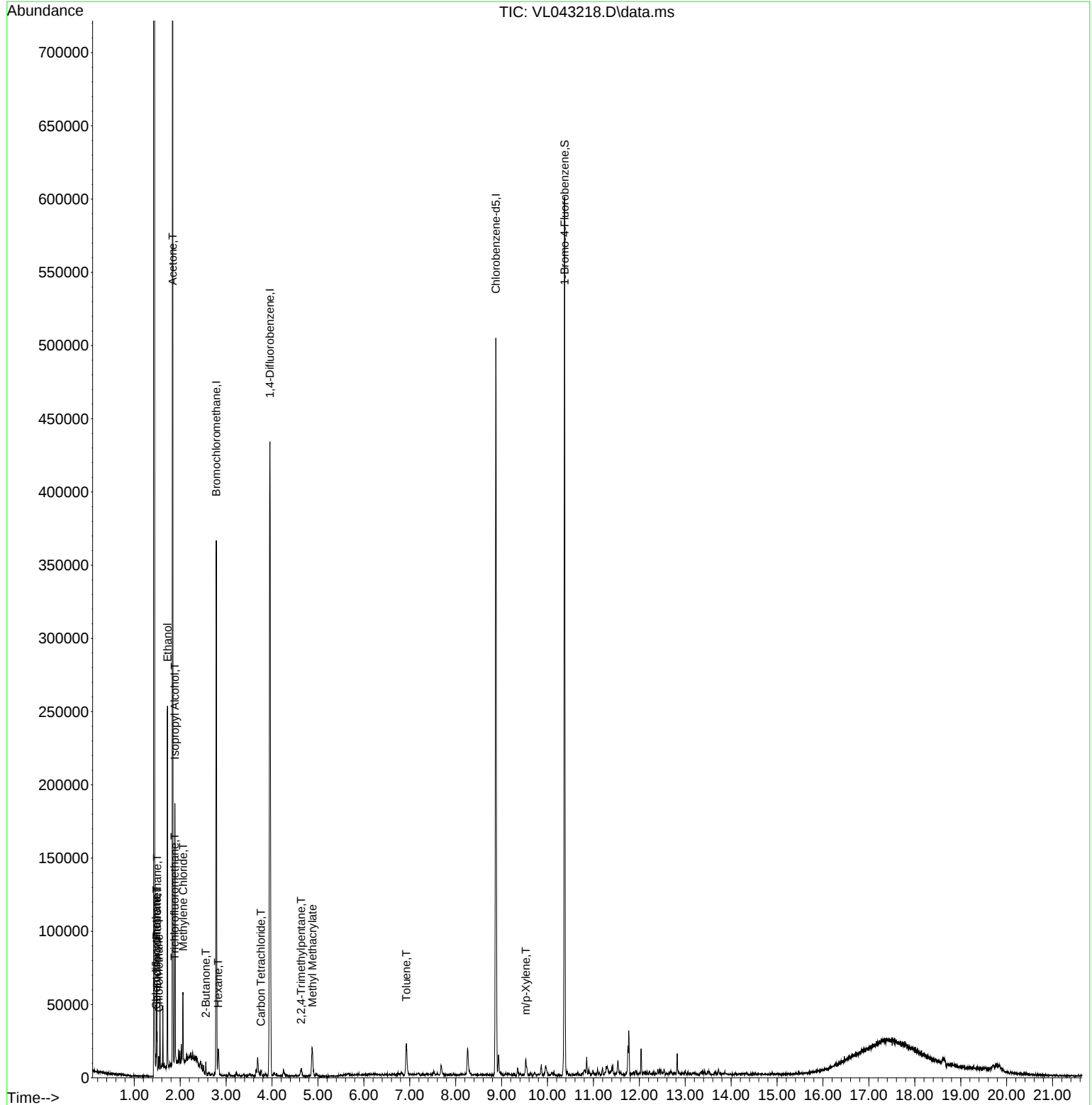
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043218.D
Acq On : 18 Nov 2025 18:15
Operator : SY/MD
Sample : Q3650-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

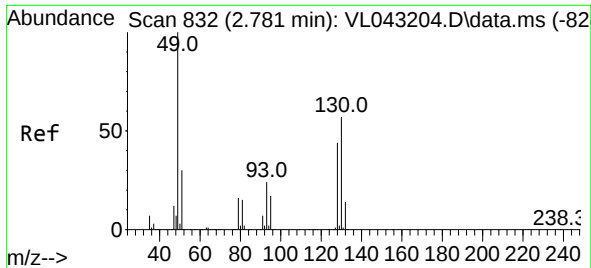
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Nov 19 01:38:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.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

Manual Integrations
APPROVED

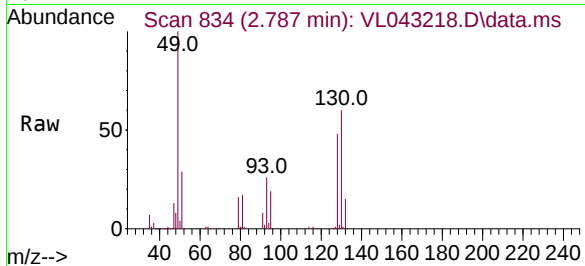
Reviewed By : Semsettin Yesilyurt 11/19/2025
Supervised By : Mahesh Dadoda 11/19/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 832
Delta R.T. 0.006 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

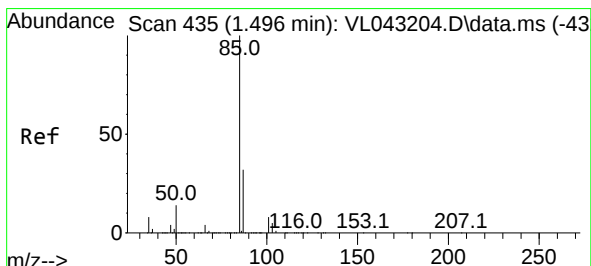
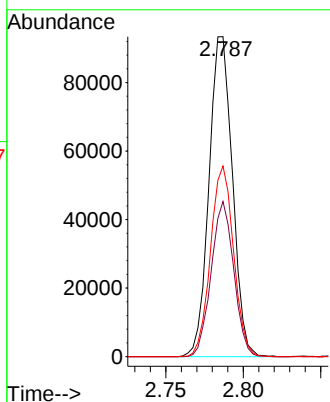
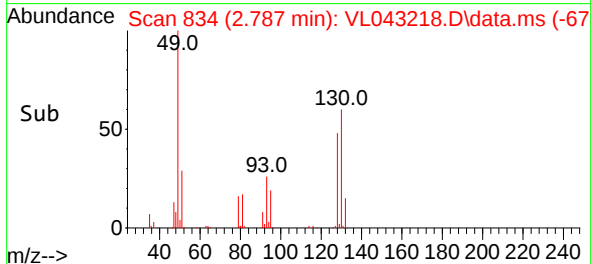
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 98200
Ion Ratio Lower Upper
49 100
128 46.6 23.0 69.0
130 58.6 29.9 89.7

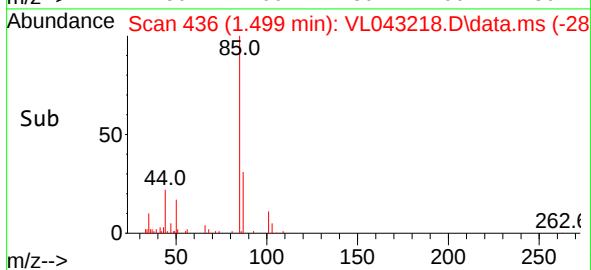
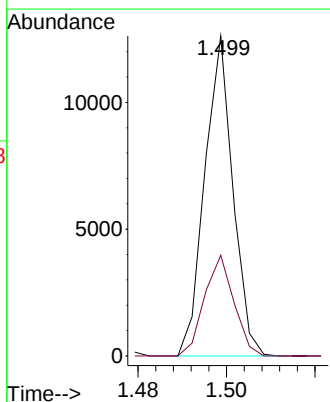
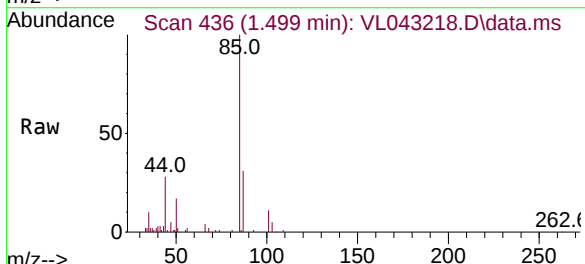
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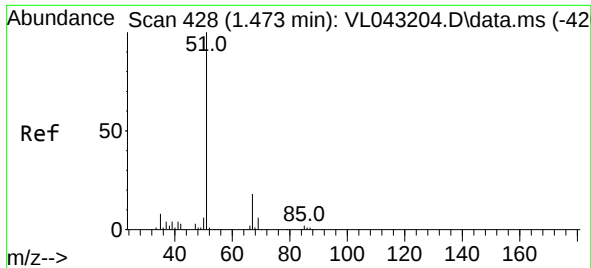
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 0.402 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

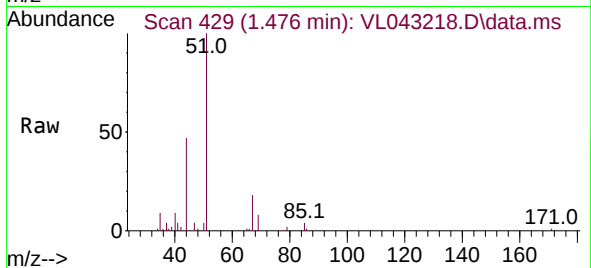
Tgt Ion: 85 Resp: 5572
Ion Ratio Lower Upper
85 100
87 31.4 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.215 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

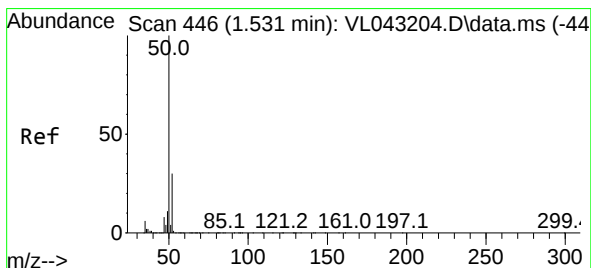
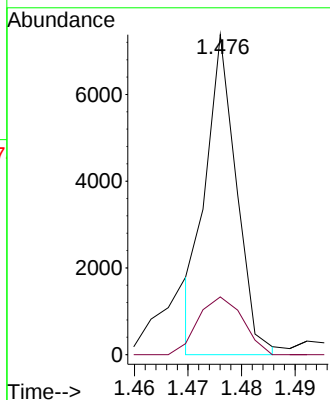
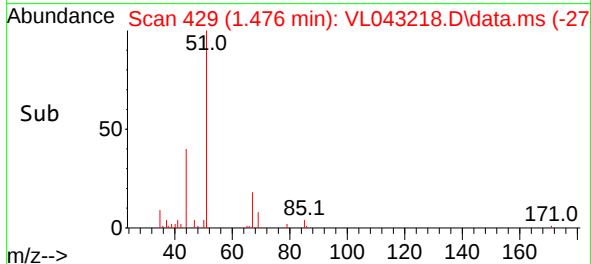
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 2927
Ion Ratio Lower Upper
51 100
67 26.4 14.9 22.3

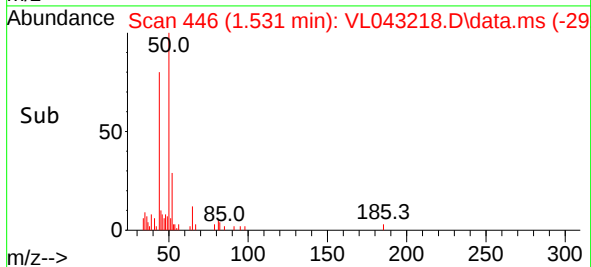
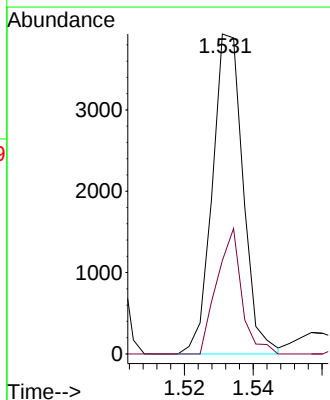
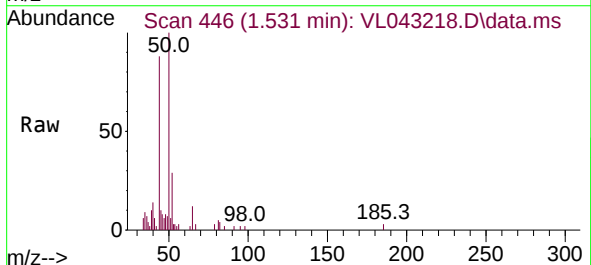
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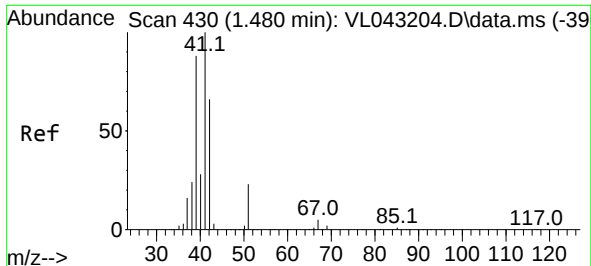
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#4
Chloromethane
Concen: 0.471 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Tgt Ion: 50 Resp: 2438
Ion Ratio Lower Upper
50 100
52 29.2 24.1 36.1





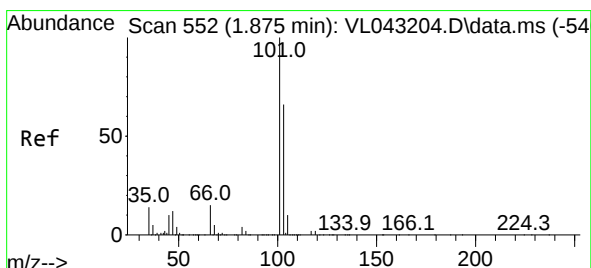
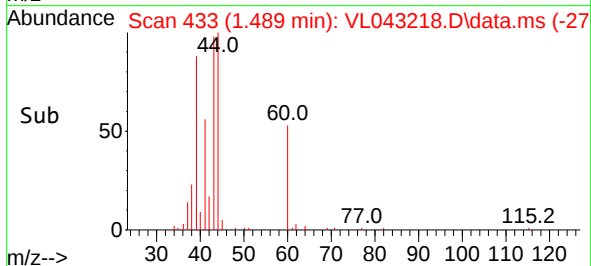
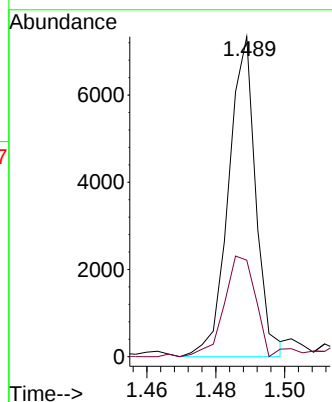
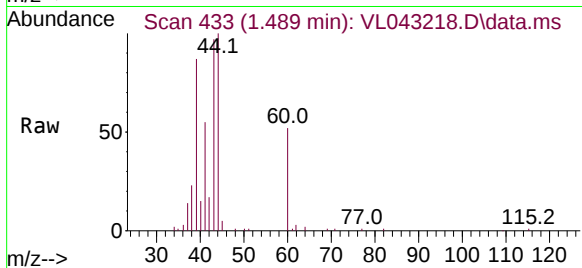
#9
Propene
Concen: 0.698 ppbv
RT: 1.489 min Scan# 430
Delta R.T. 0.009 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 41 Resp: 4038
Ion Ratio Lower Upper
41 100
42 0.0 3.7 5.5

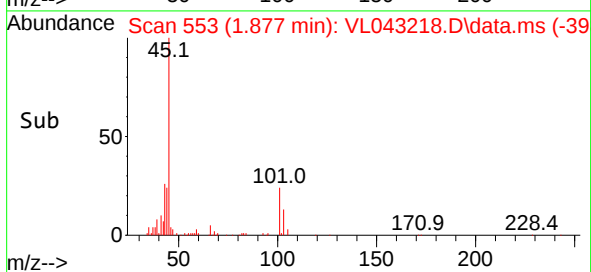
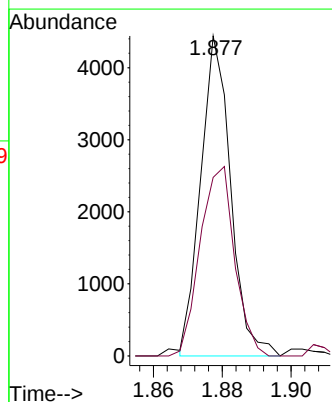
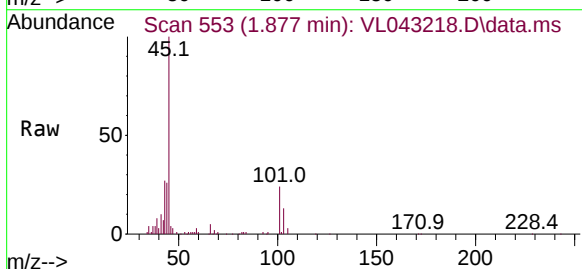
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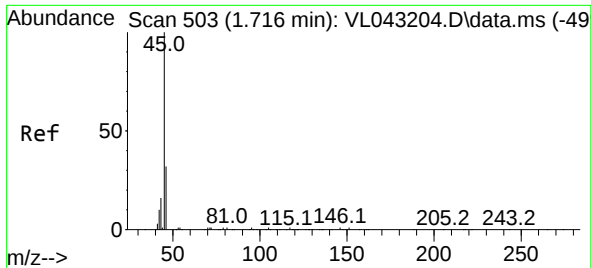
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#11
Trichlorofluoromethane
Concen: 0.201 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Tgt Ion:101 Resp: 2694
Ion Ratio Lower Upper
101 100
103 55.8 52.6 79.0





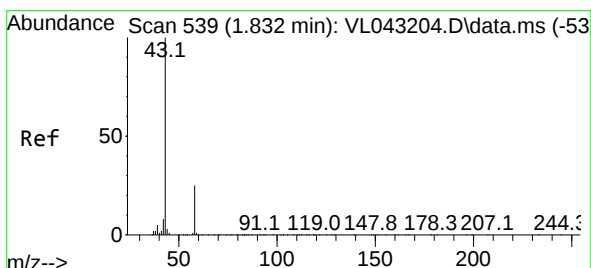
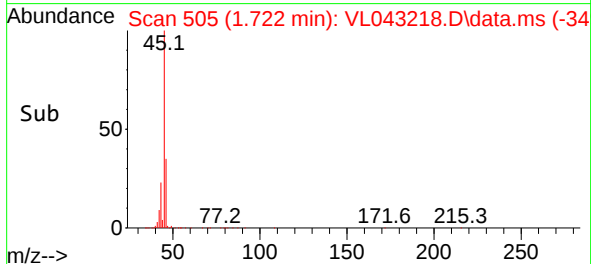
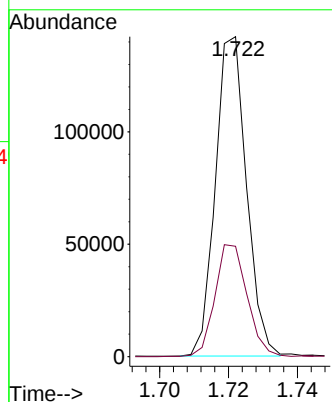
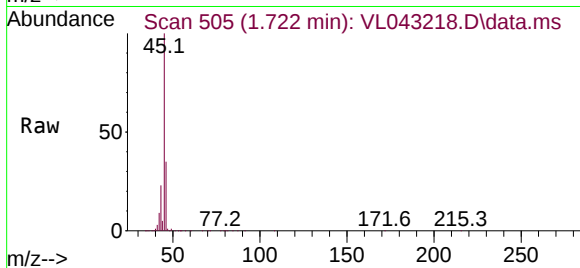
#13
Ethanol
Concen: 43.851 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 89190
Ion Ratio Lower Upper
45 100
46 36.5 15.0 59.8

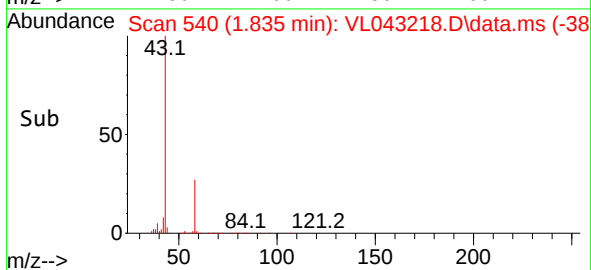
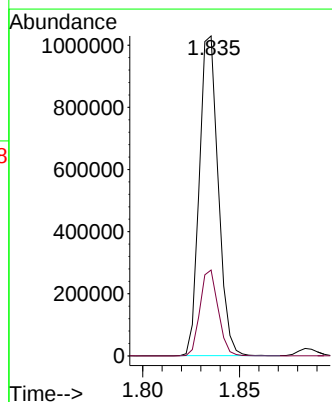
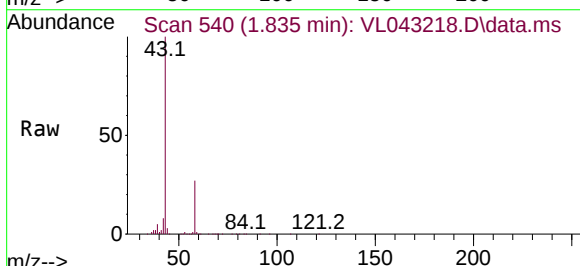
Manual Integrations
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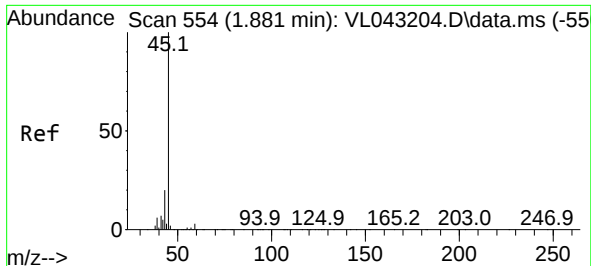
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#15
Acetone
Concen: 50.997 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

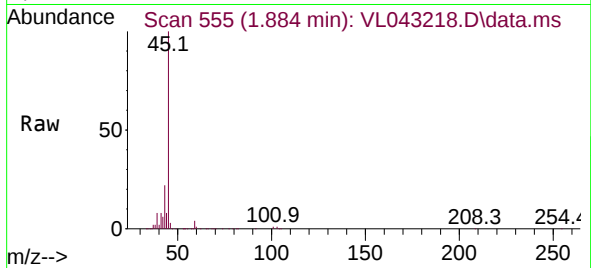
Tgt Ion: 43 Resp: 695771
Ion Ratio Lower Upper
43 100
58 25.9 20.7 31.1





#19
Isopropyl Alcohol
Concen: 9.527 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

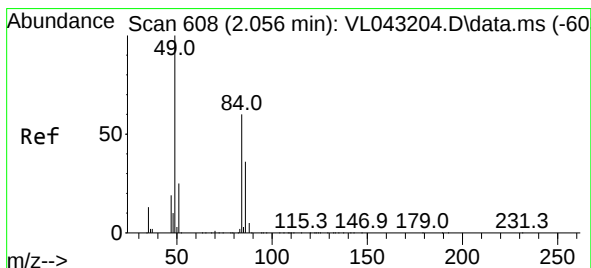
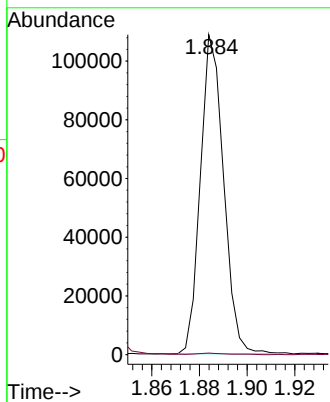
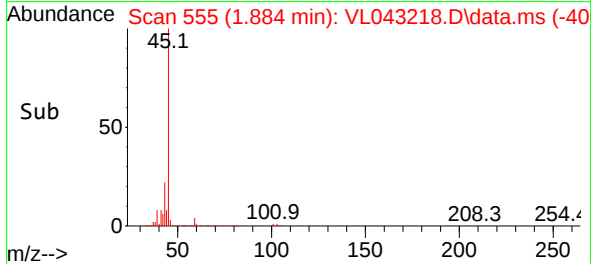
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 7344
Ion Ratio Lower Upper
45 100
58 245.2 31.3 46.9

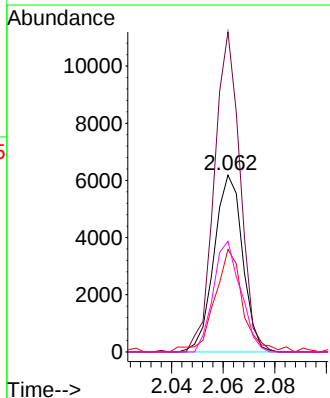
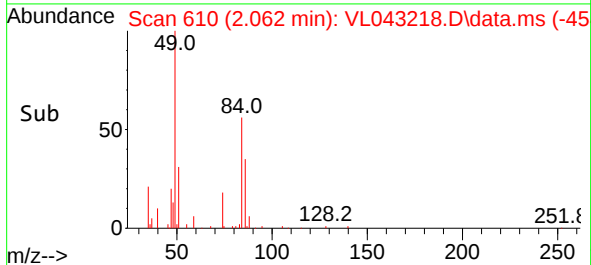
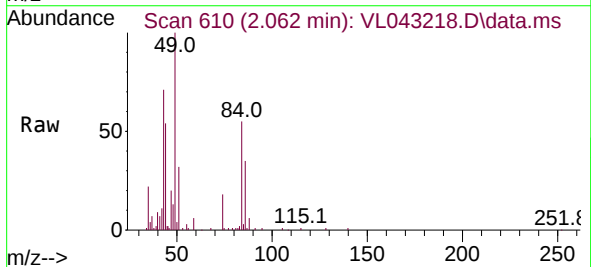
Manual Integrations
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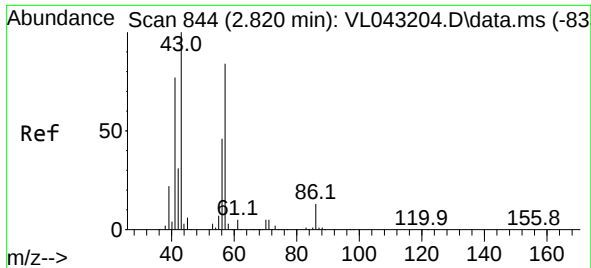
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 0.436 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

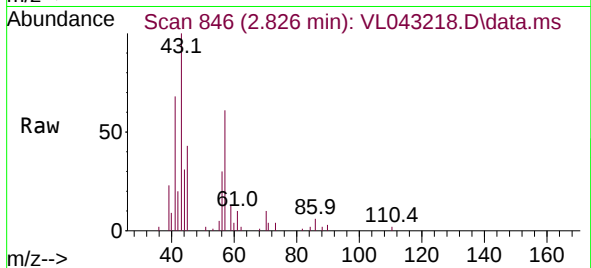
Tgt Ion: 84 Resp: 4770
Ion Ratio Lower Upper
84 100
49 181.1 132.9 199.3
51 56.7 34.8 52.2#
86 62.6 48.2 72.2





#26
Hexane
Concen: 0.186 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

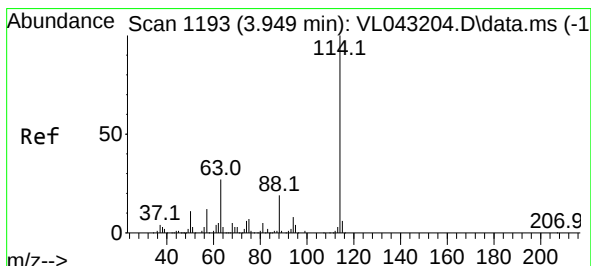
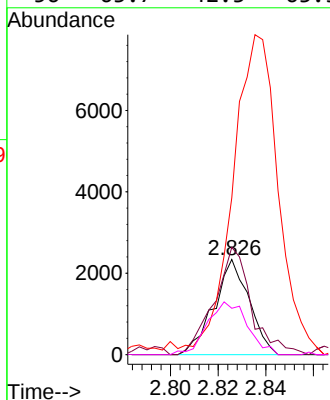
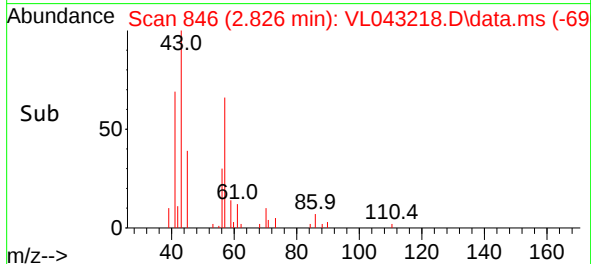
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 2400
Ion Ratio Lower Upper
57 100
41 124.7 74.6 111.8
43 431.2 179.0 268.4
56 63.7 42.3 63.5

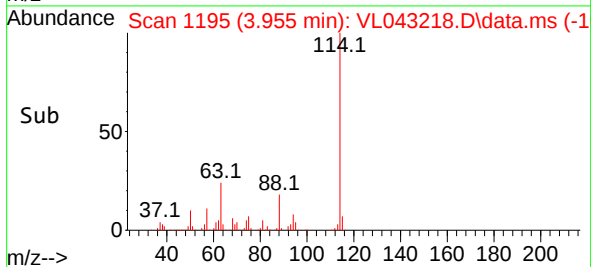
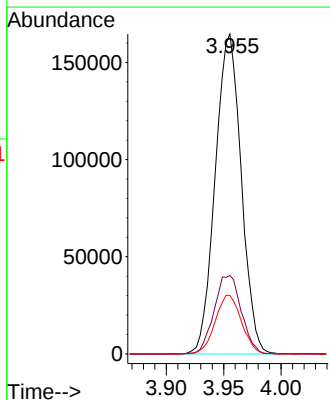
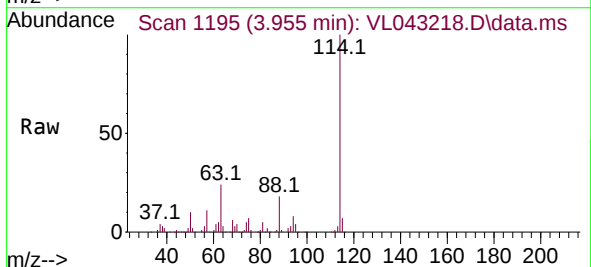
Manual Integrations
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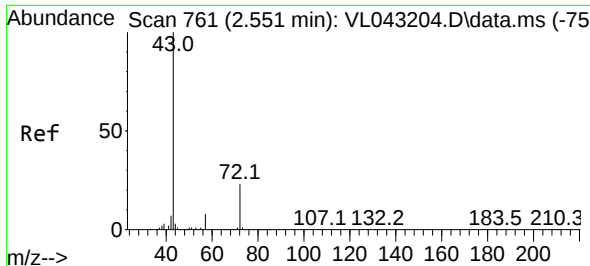
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

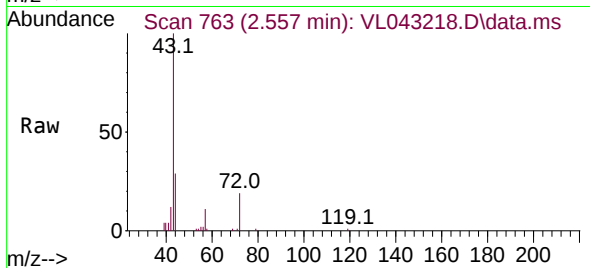
Tgt Ion:114 Resp: 259525
Ion Ratio Lower Upper
114 100
63 25.6 21.0 31.6
88 18.5 14.9 22.3





#34
2-Butanone
Concen: 0.245 ppbv
RT: 2.557 min Scan# 761
Delta R.T. 0.006 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

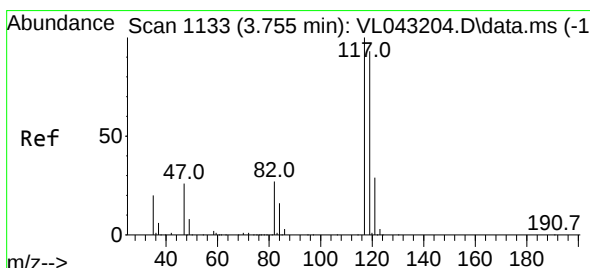
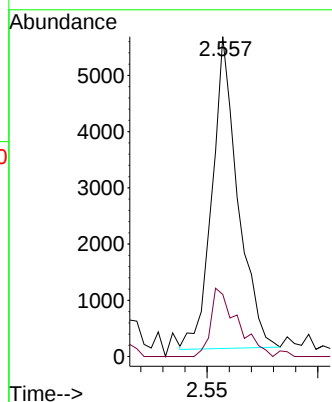
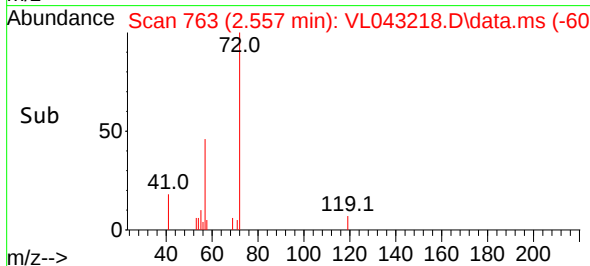
Instrument :
MSVOA_L
Client Sample Id :
IA1



Tgt Ion: 43 Resp: 4492
Ion Ratio Lower Upper
43 100
72 23.4 18.1 27.1

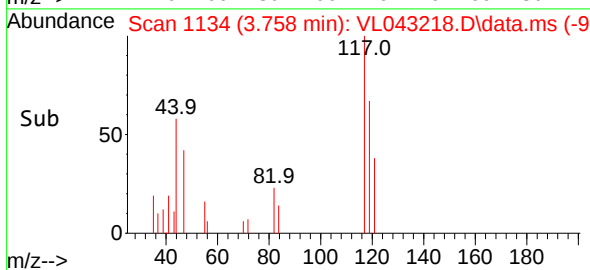
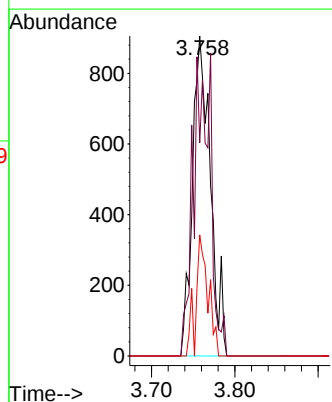
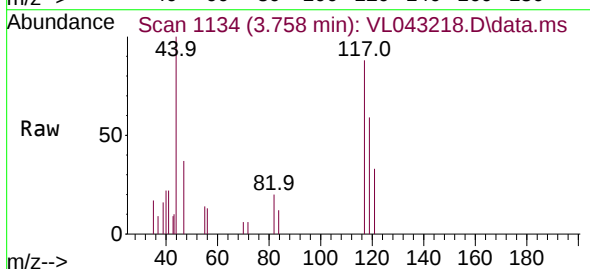
Manual Integrations
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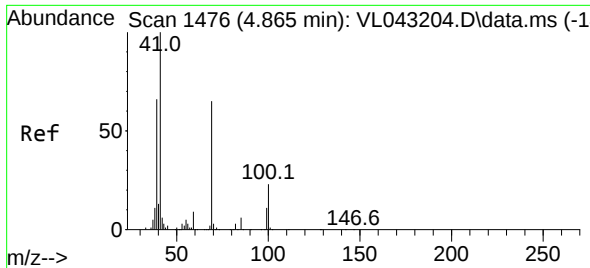
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

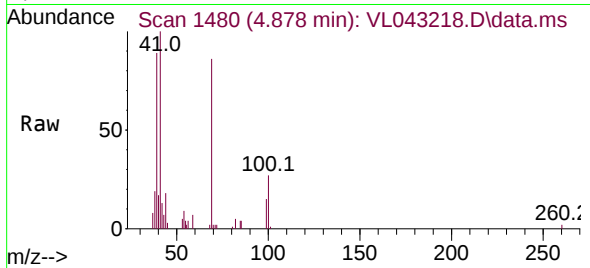
Tgt Ion:117 Resp: 1348
Ion Ratio Lower Upper
117 100
119 66.6 74.6 112.0#
121 37.9 23.2 34.8#





#43
Methyl Methacrylate
Concen: 0.528 ppbv m
RT: 4.878 min Scan# 1476
Delta R.T. 0.013 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

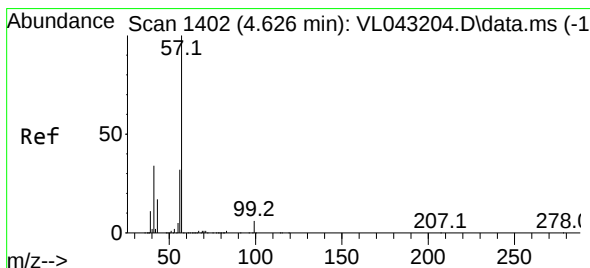
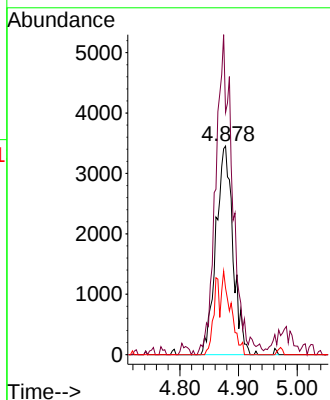
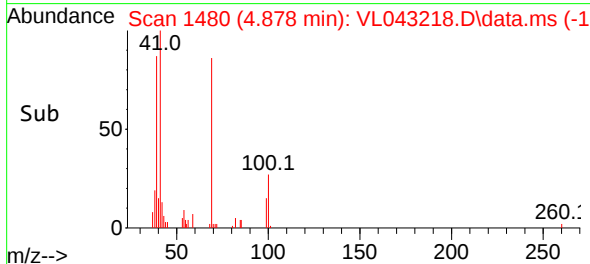
Instrument :
MSVOA_L
ClientSampleId :
IA1



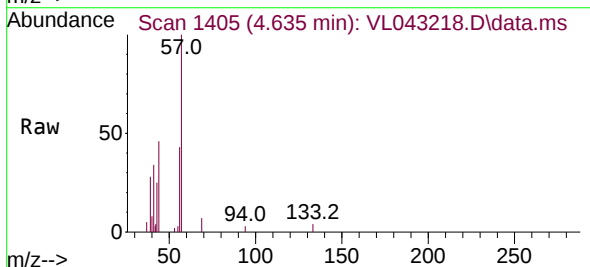
Tgt Ion: 69 Resp: 6969
Ion Ratio Lower Upper
69 100
41 151.9 126.7 190.1
100 35.3 28.6 43.0

Manual Integrations
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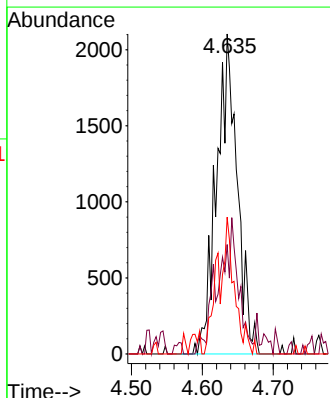
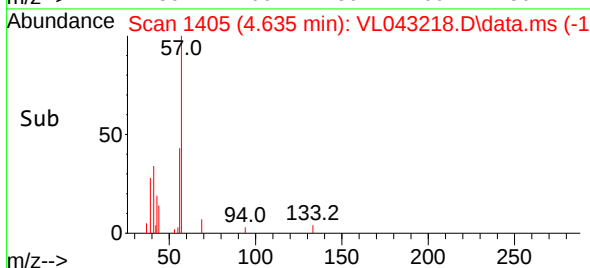
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

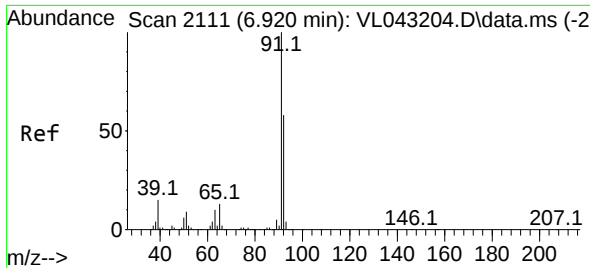


#44
2,2,4-Trimethylpentane
Concen: 0.100 ppbv m
RT: 4.635 min Scan# 1405
Delta R.T. 0.009 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15



Tgt Ion: 57 Resp: 4267
Ion Ratio Lower Upper
57 100
41 0.0 28.0 42.0#
56 0.0 25.6 38.4#





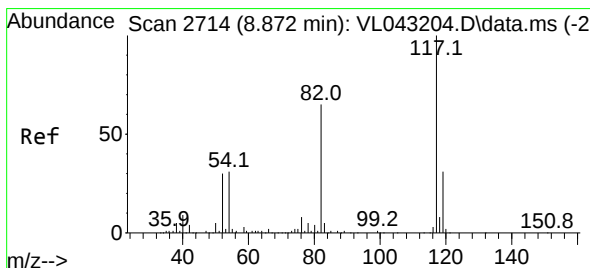
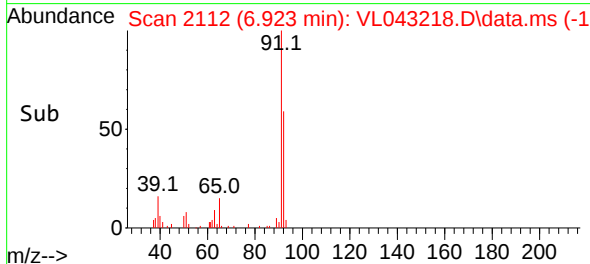
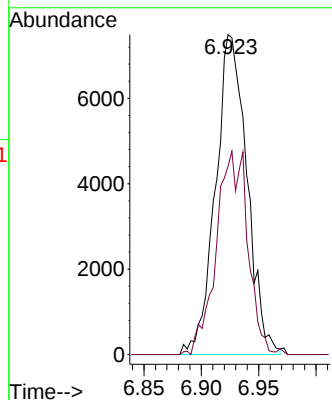
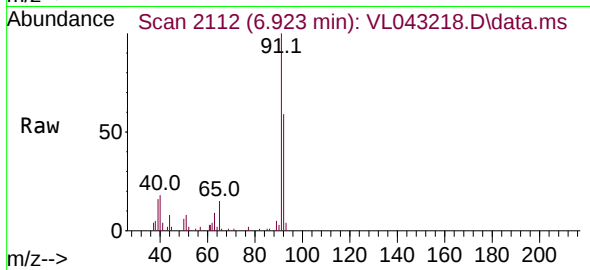
#53
Toluene
Concen: 0.485 ppbv
RT: 6.923 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 14272
Ion Ratio Lower Upper
91 100
92 64.1 47.4 71.0

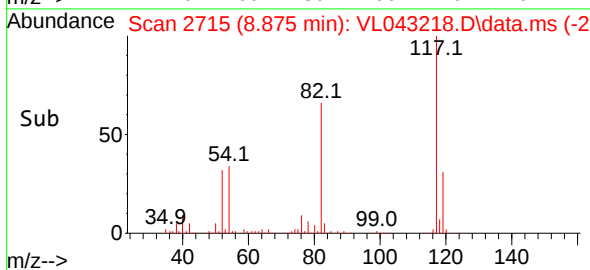
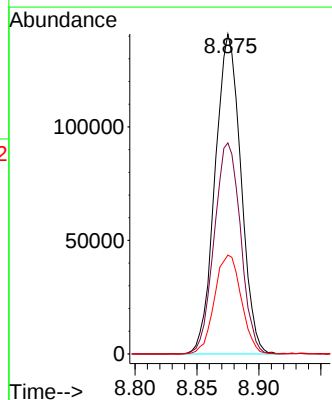
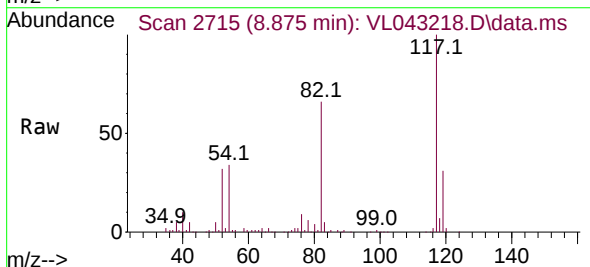
Manual Integrations
APPROVED

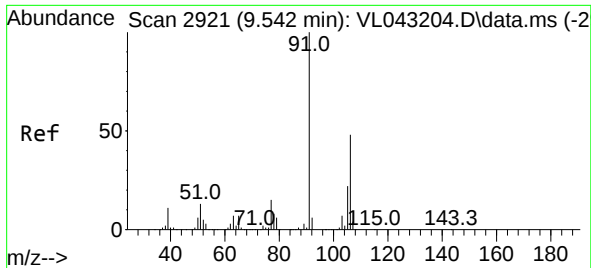
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Tgt Ion:117 Resp: 203499
Ion Ratio Lower Upper
117 100
82 67.4 56.1 84.1
119 32.2 25.0 37.6





#59

m/p-Xylene

Concen: 0.220 ppbv m

RT: 9.529 min Scan# 2921

Delta R.T. -0.013 min

Lab File: VL043218.D

Acq: 18 Nov 2025 18:15

Instrument :

MSVOA_L

ClientSampleId :

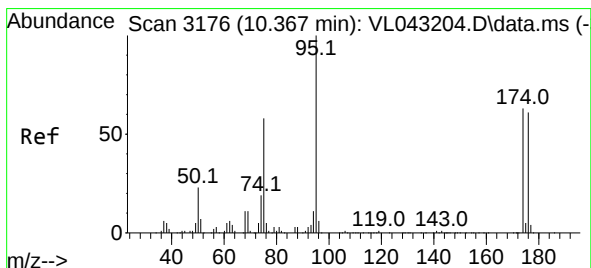
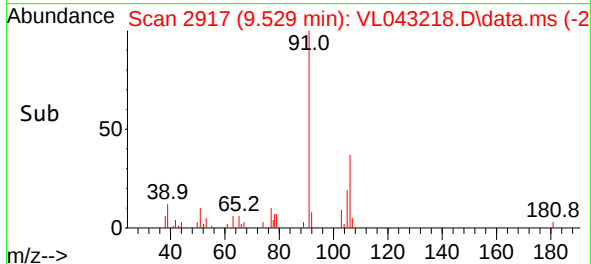
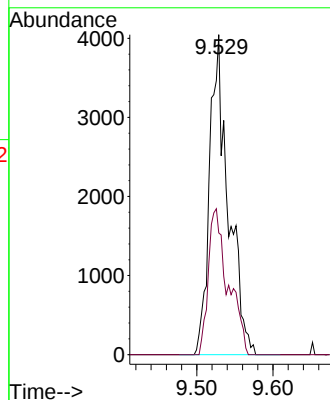
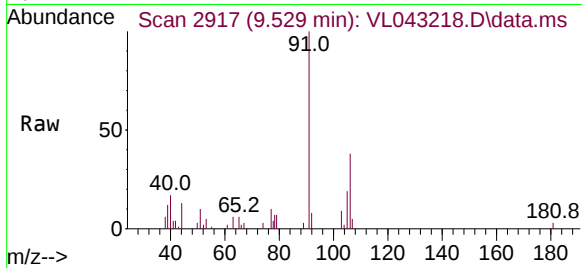
IA1

Tgt Ion: 91 Resp: 6905
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.1 54.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.379 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. 0.003 min

Lab File: VL043218.D

Acq: 18 Nov 2025 18:15

Tgt Ion: 95 Resp: 154823
 Ion Ratio Lower Upper
 95 100
 174 59.1 50.2 75.2
 175 4.6 4.1 6.1

