

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043244.D
 Acq On : 19 Nov 2025 17:47
 Operator : SY/MD
 Sample : Q3626-10 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 14-SG-1

Manual Integrations
 APPROVED

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

Quant Time: Nov 20 00:08:08 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

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	106615	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	284605	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	227663	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	166196	9.959	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	3851	0.256	ppbv	99
4) Chloromethane	1.531	50	789	0.140	ppbv #	45
9) Propene	1.486	41	4977	0.793	ppbv #	1
10) Heptane	4.972	43	1959m	0.105	ppbv	
11) Trichlorofluoromethane	1.874	101	2218	0.152	ppbv #	62
13) Ethanol	1.719	45	28478	12.896	ppbv	97
15) Acetone	1.832	43	198363	13.392	ppbv	100
17) tert-Butyl alcohol	2.043	59	2623	0.135	ppbv #	87
19) Isopropyl Alcohol	1.884	45	62615	7.481	ppbv #	30
20) Methylene Chloride	2.062	84	4407	0.244	ppbv #	82
26) Hexane	2.819	57	6594	0.471	ppbv #	51
27) Carbon Disulfide	2.149	76	6722	0.470	ppbv #	1
34) 2-Butanone	2.551	43	13918	0.693	ppbv	96
35) Carbon Tetrachloride	3.752	117	723m	0.033	ppbv	
36) Benzene	3.648	78	14120	0.518	ppbv #	88
52) Tetrachloroethene	8.215	164	13878	1.369	ppbv	92
53) Toluene	6.927	91	6512m	0.202	ppbv	
59) m/p-Xylene	9.526	91	8081m	0.230	ppbv	
62) Isopropylbenzene	10.529	105	18013	0.287	ppbv	93
74) 1,2,4-Trimethylbenzene	11.526	105	5794	0.148	ppbv #	48

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

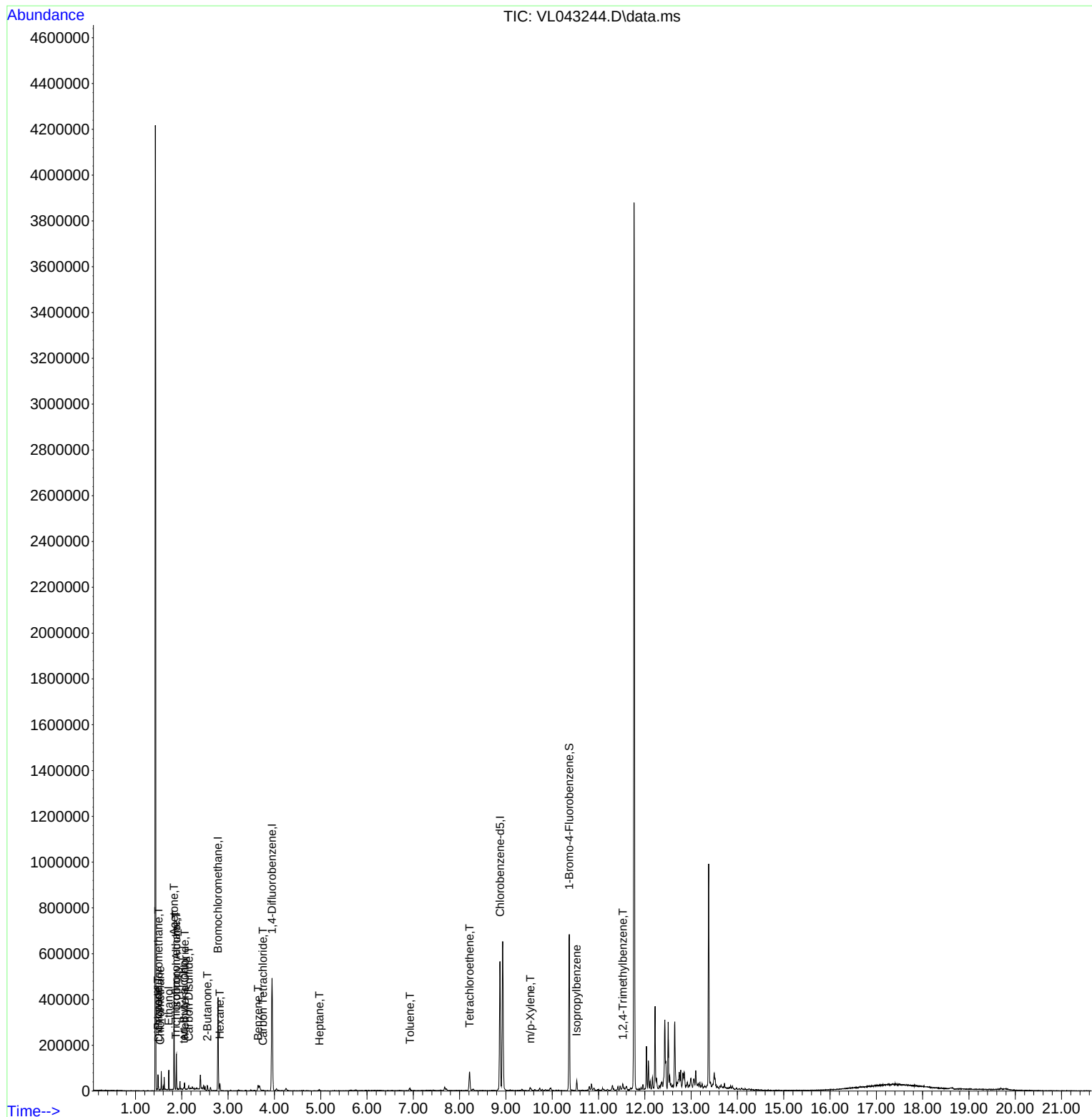
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043244.D
Acq On : 19 Nov 2025 17:47
Operator : SY/MD
Sample : Q3626-10 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

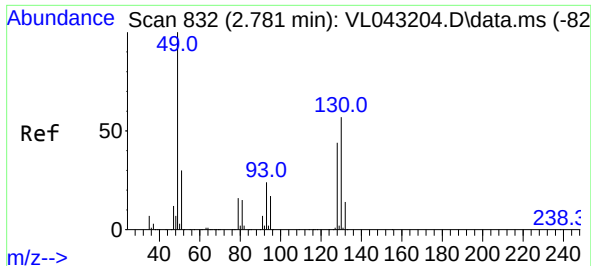
Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Quant Time: Nov 20 00:08:08 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 11/21/2025
Supervised By : Mahesh Dadoda 11/21/2025





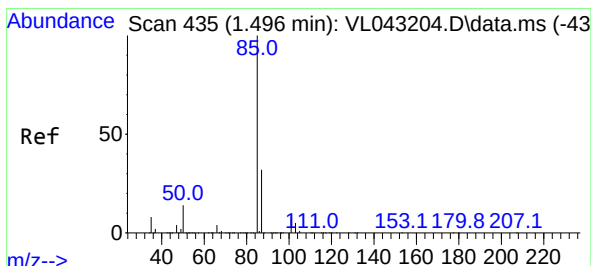
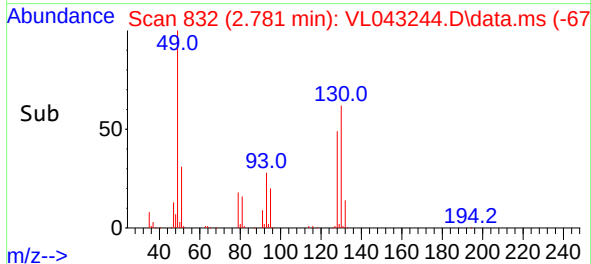
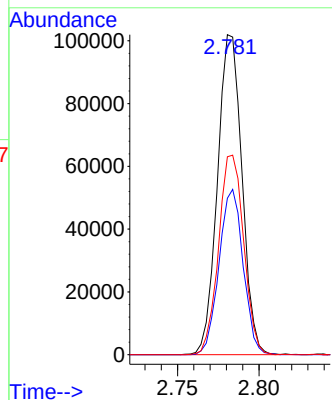
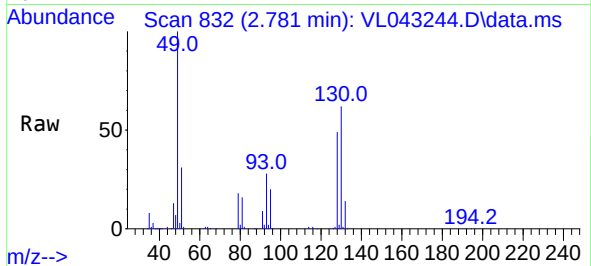
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 49 Resp: 10661
Ion Ratio Lower Upper
49 100
128 50.7 23.0 69.0
130 64.0 29.9 89.7

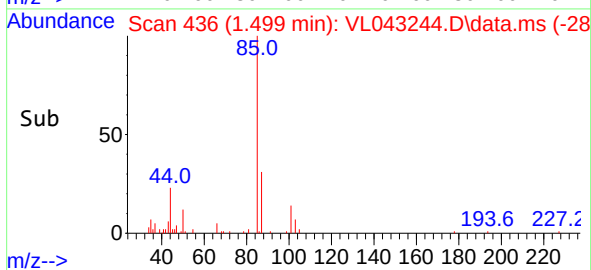
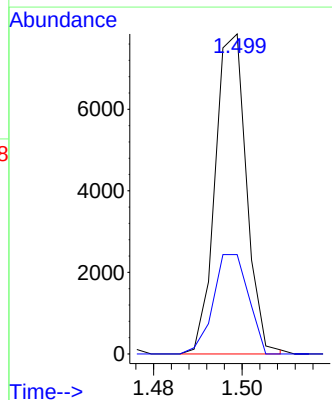
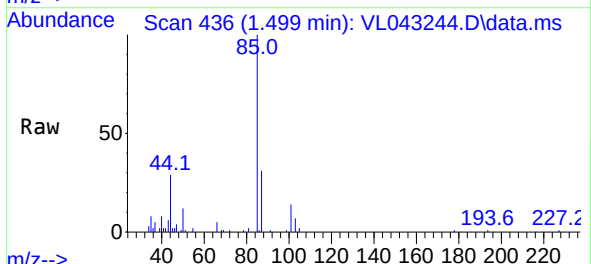
Manual Integrations
APPROVED

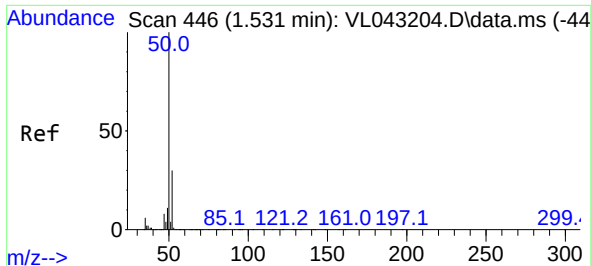
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#2
Dichlorodifluoromethane
Concen: 0.256 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

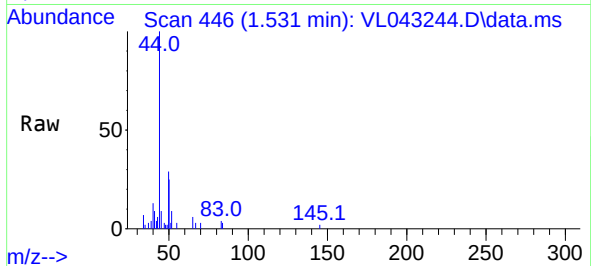
Tgt Ion: 85 Resp: 3851
Ion Ratio Lower Upper
85 100
87 31.0 25.4 38.2





#4
Chloromethane
Concen: 0.140 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

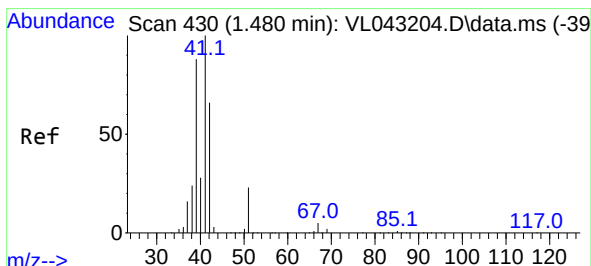
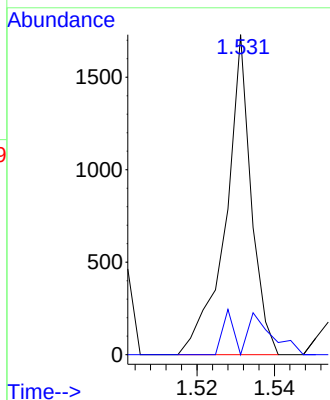
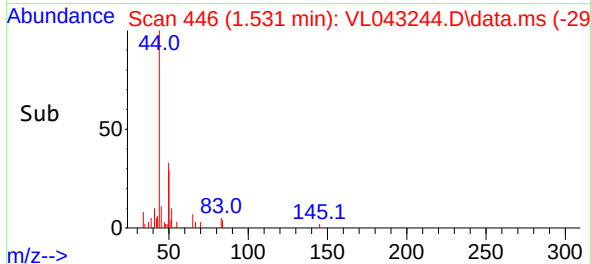
Instrument :
MSVOA_L
ClientSampleId :
14-SG-1



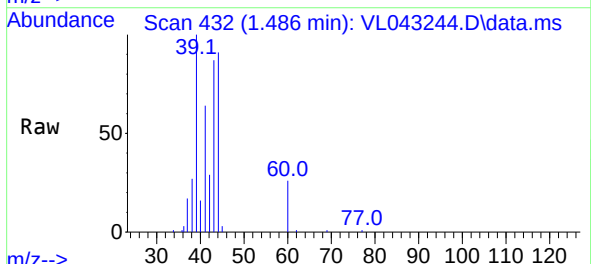
Tgt Ion: 50 Resp: 789
Ion Ratio Lower Upper
50 100
52 0.0 24.1 36.1

Manual Integrations
APPROVED

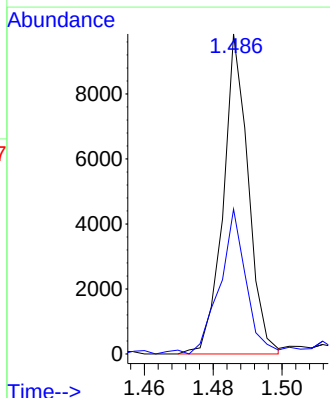
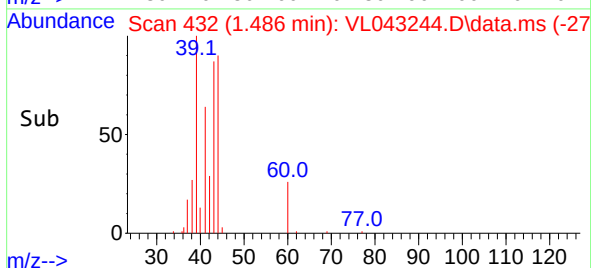
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

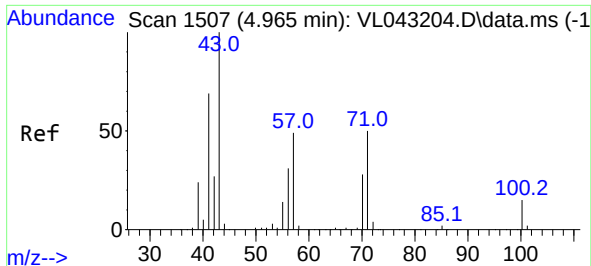


#9
Propene
Concen: 0.793 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47



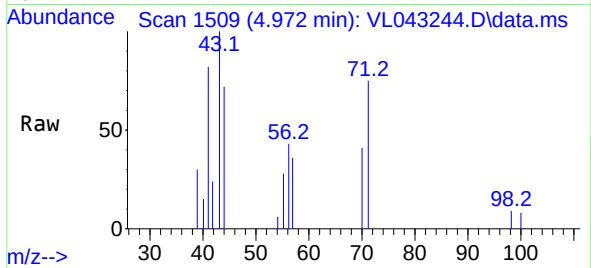
Tgt Ion: 41 Resp: 4977
Ion Ratio Lower Upper
41 100
42 49.5 3.7 5.5





#10
Heptane
Concen: 0.105 ppbv m
RT: 4.972 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

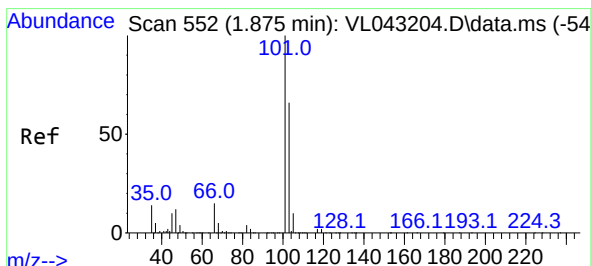
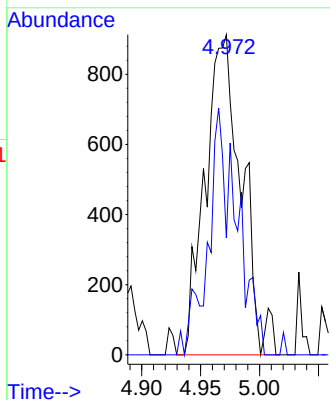
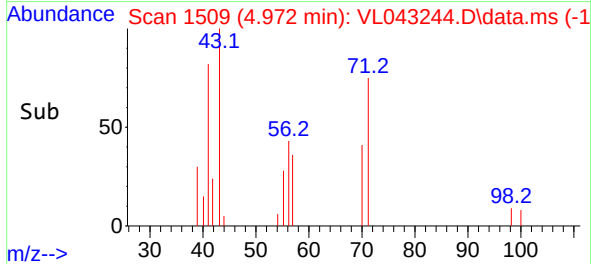
Instrument :
MSVOA_L
ClientSampleId :
14-SG-1



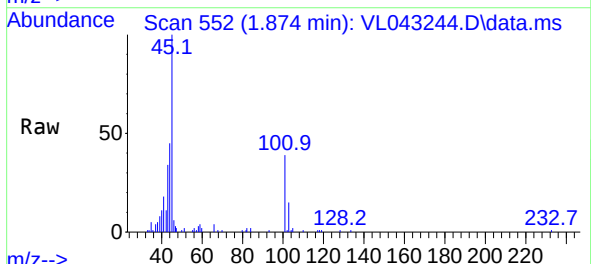
Tgt Ion: 43 Resp: 1958
Ion Ratio Lower Upper
43 100
57 61.4 39.7 59.5

Manual Integrations
APPROVED

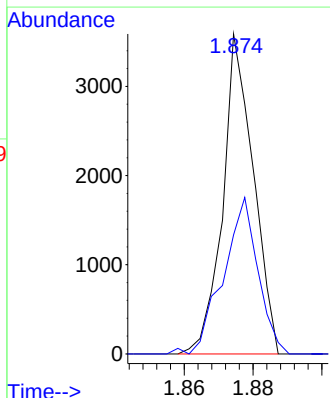
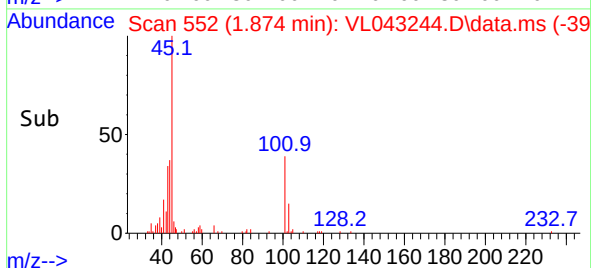
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

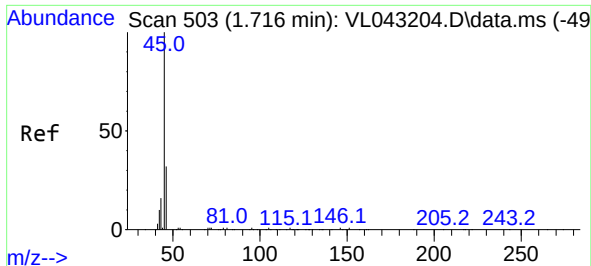


#11
Trichlorofluoromethane
Concen: 0.152 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47



Tgt Ion:101 Resp: 2218
Ion Ratio Lower Upper
101 100
103 35.5 52.6 79.0#





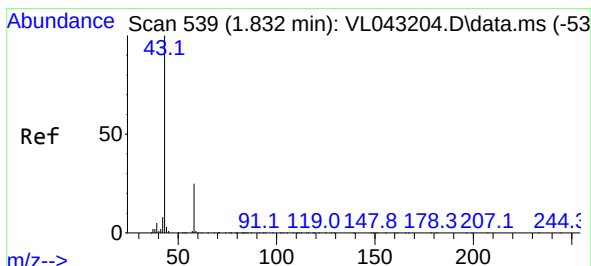
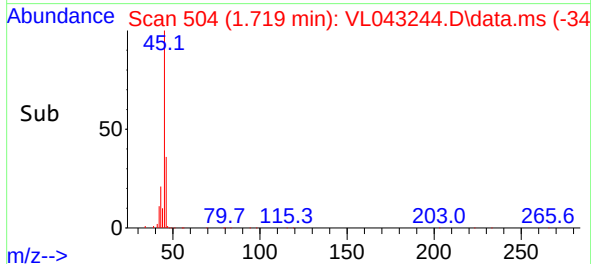
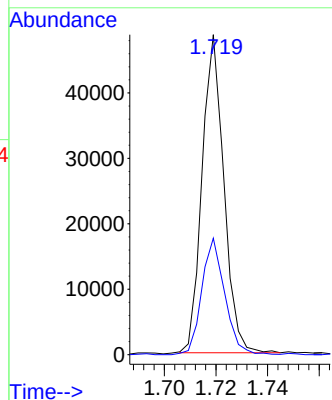
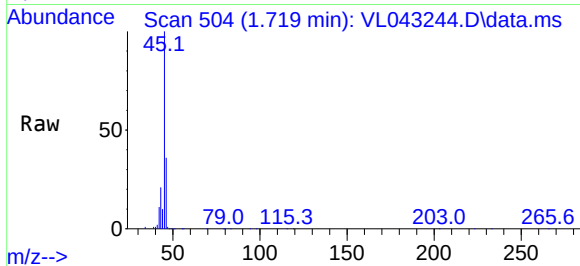
#13
Ethanol
Concen: 12.896 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 45 Resp: 28478
Ion Ratio Lower Upper
45 100
46 39.3 15.0 59.8

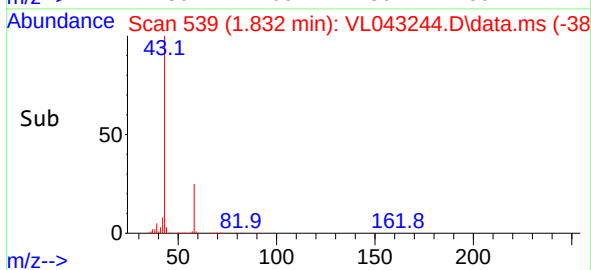
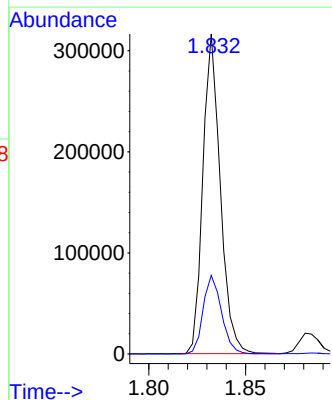
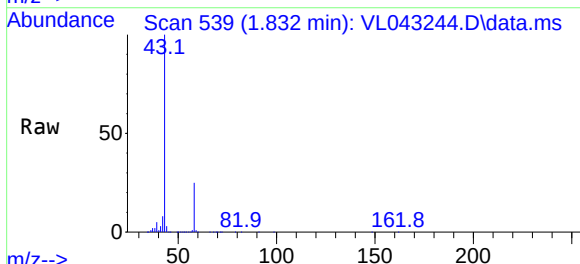
Manual Integrations
APPROVED

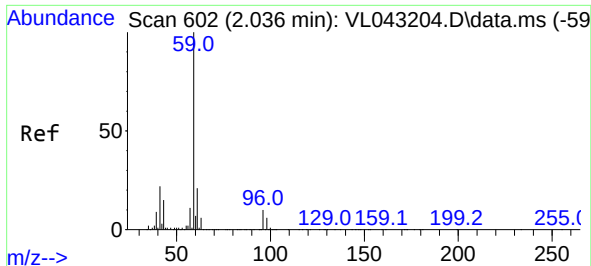
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#15
Acetone
Concen: 13.392 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

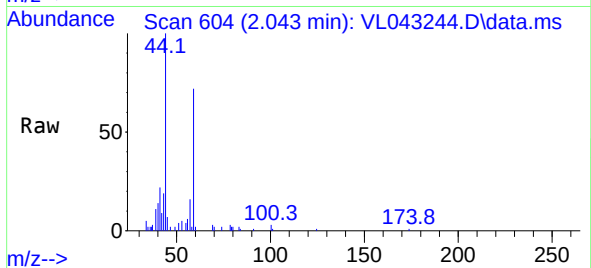
Tgt Ion: 43 Resp: 198363
Ion Ratio Lower Upper
43 100
58 25.9 20.7 31.1





#17
tert-Butyl alcohol
Concen: 0.135 ppbv
RT: 2.043 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

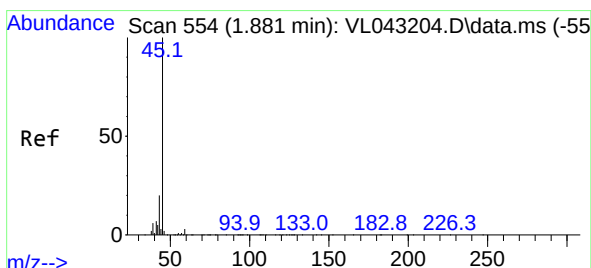
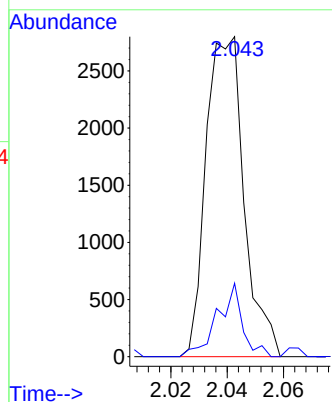
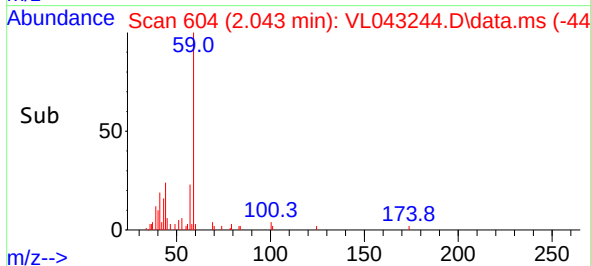
Instrument :
MSVOA_L
ClientSampleId :
14-SG-1



Tgt Ion: 59 Resp: 262
Ion Ratio Lower Upper
59 100
57 16.2 9.0 13.4

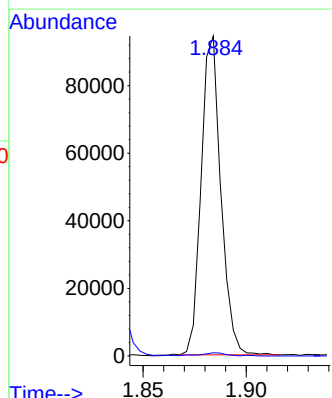
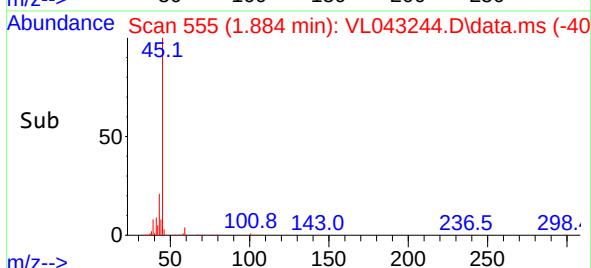
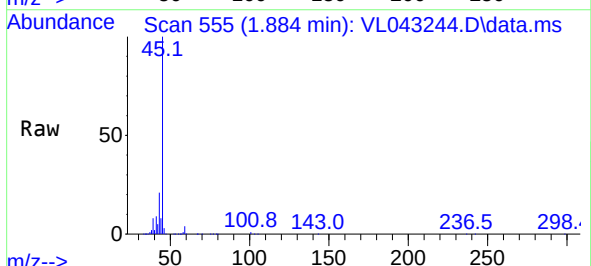
Manual Integrations
APPROVED

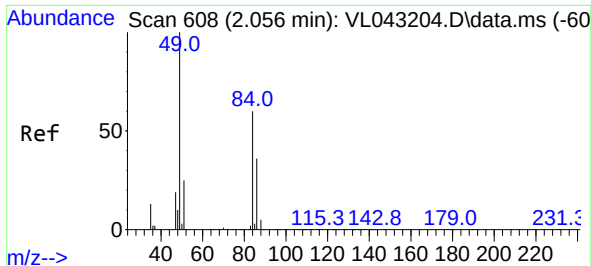
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#19
Isopropyl Alcohol
Concen: 7.481 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

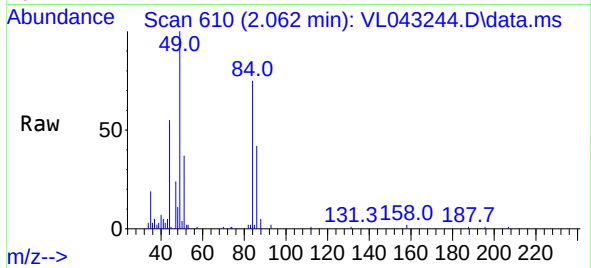
Tgt Ion: 45 Resp: 62615
Ion Ratio Lower Upper
45 100
58 82.2 31.3 46.9





#20
Methylene Chloride
Concen: 0.244 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

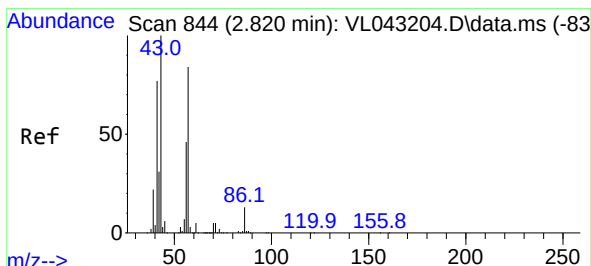
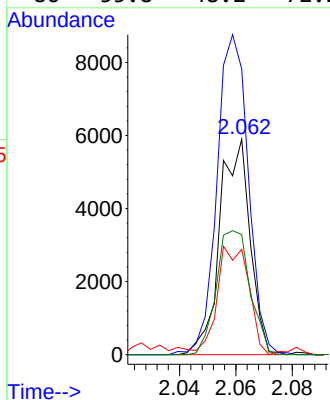
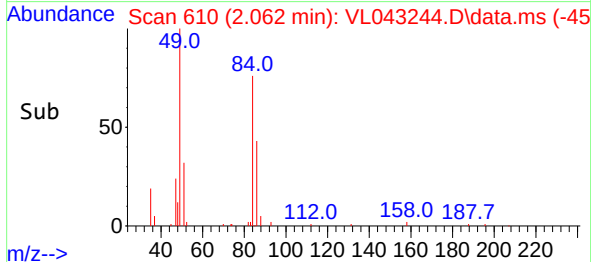
Instrument :
MSVOA_L
ClientSampleId :
14-SG-1



Tgt Ion: 84 Resp: 440
Ion Ratio Lower Upper
84 100
49 131.6 132.9 199.3
51 47.3 34.8 52.2
86 55.8 48.2 72.2

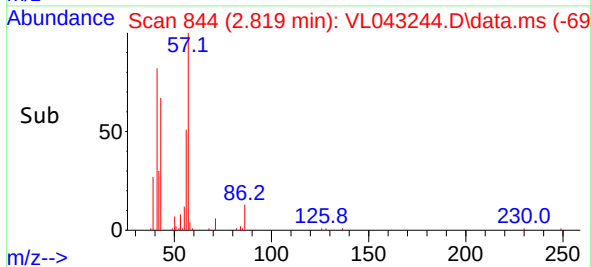
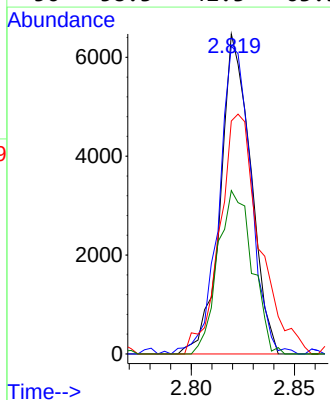
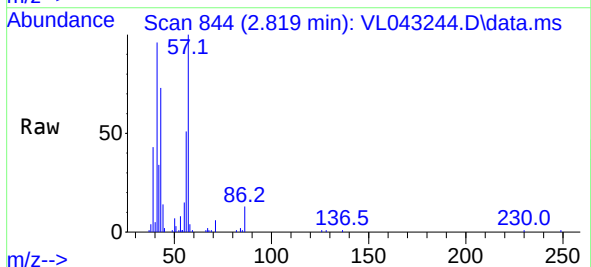
Manual Integrations
APPROVED

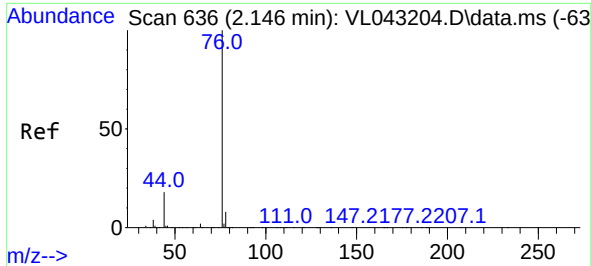
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#26
Hexane
Concen: 0.471 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

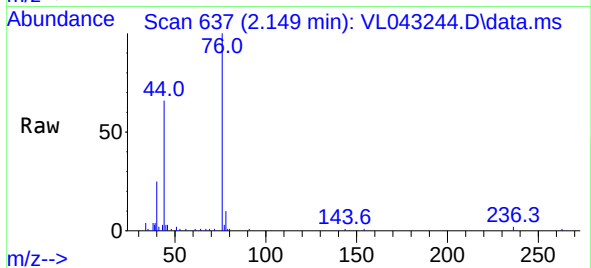
Tgt Ion: 57 Resp: 6594
Ion Ratio Lower Upper
57 100
41 101.9 74.6 111.8
43 100.7 179.0 268.4
56 58.3 42.3 63.5





#27
Carbon Disulfide
Concen: 0.470 ppbv
RT: 2.149 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

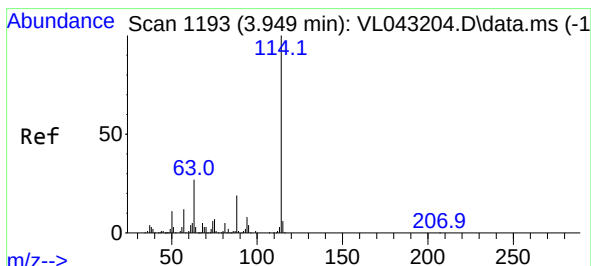
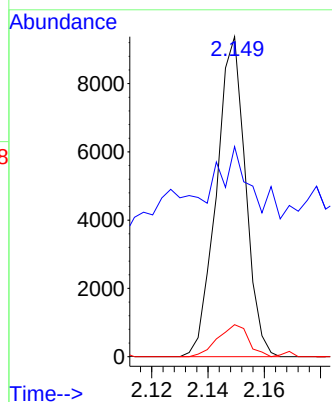
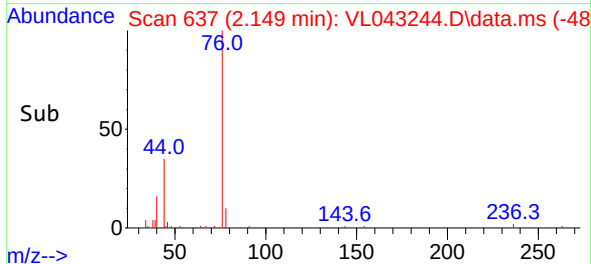
Instrument :
MSVOA_L
ClientSampleId :
14-SG-1



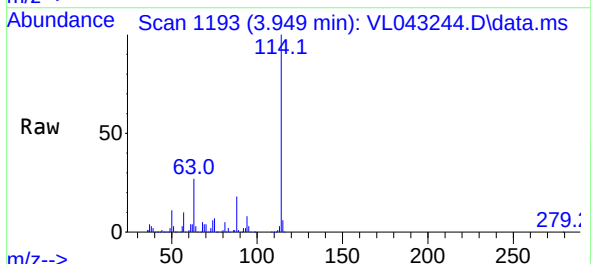
Tgt Ion: 76 Resp: 672
Ion Ratio Lower Upper
76 100
44 239.2 16.1 24.1
78 11.2 9.6 14.4

Manual Integrations
APPROVED

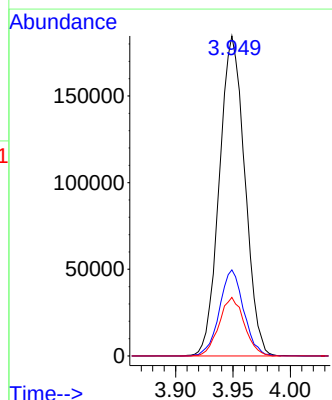
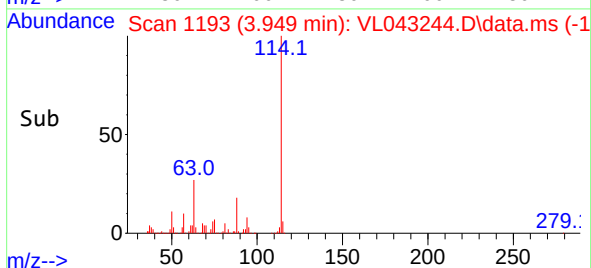
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

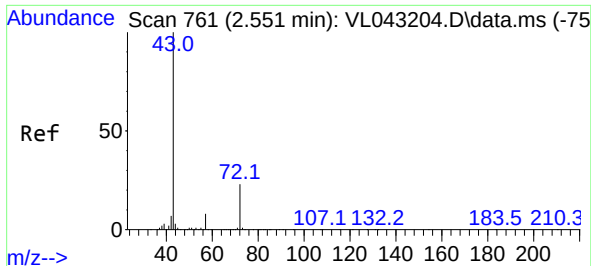


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47



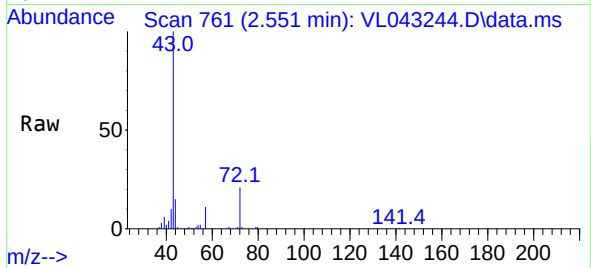
Tgt Ion:114 Resp: 284605
Ion Ratio Lower Upper
114 100
63 25.7 21.0 31.6
88 18.2 14.9 22.3





#34
2-Butanone
Concen: 0.693 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

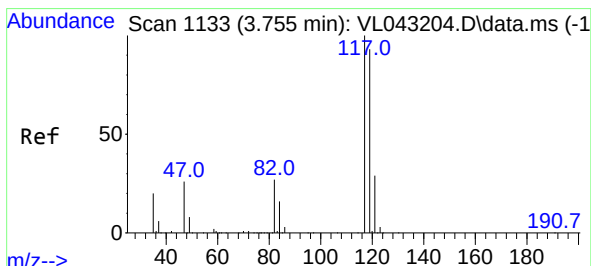
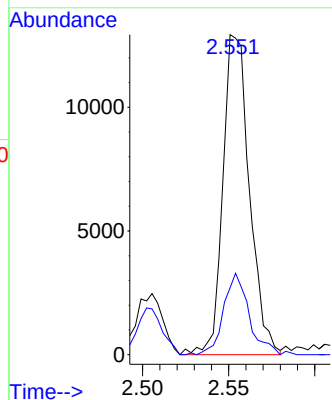
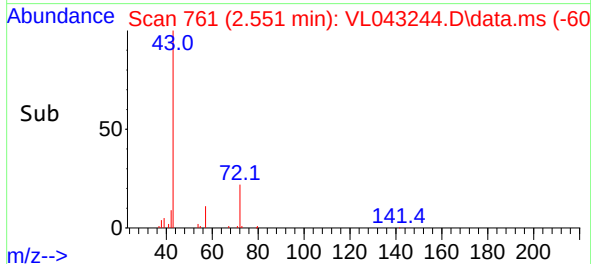
Instrument :
MSVOA_L
ClientSampleId :
14-SG-1



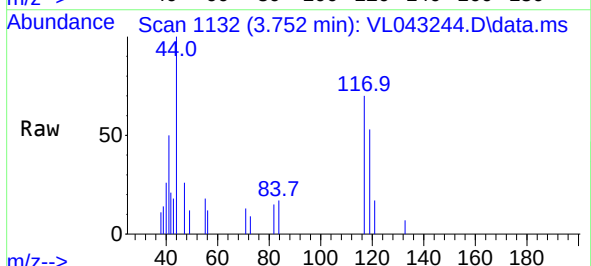
Tgt Ion: 43 Resp: 13918
Ion Ratio Lower Upper
43 100
72 24.5 18.1 27.1

Manual Integrations
APPROVED

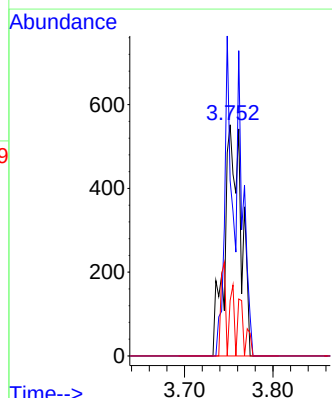
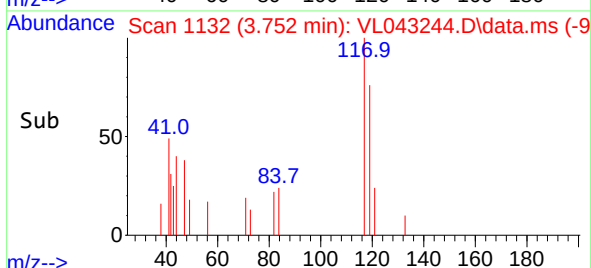
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

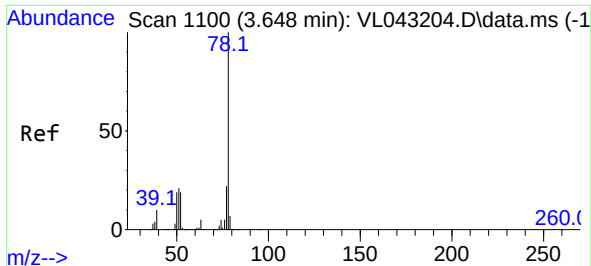


#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.752 min Scan# 1132
Delta R.T. -0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47



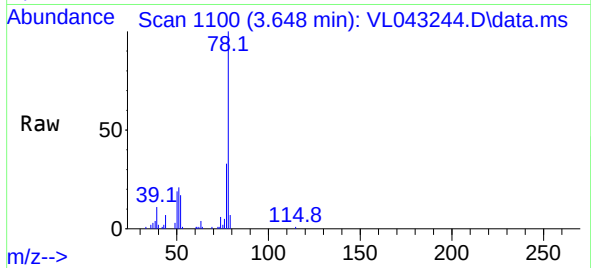
Tgt Ion:117 Resp: 723
Ion Ratio Lower Upper
117 100
119 75.9 74.6 112.0
121 23.9 23.2 34.8





#36
Benzene
Concen: 0.518 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

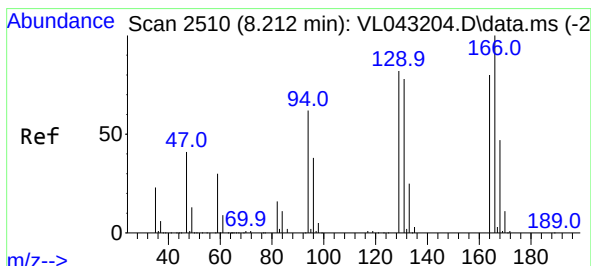
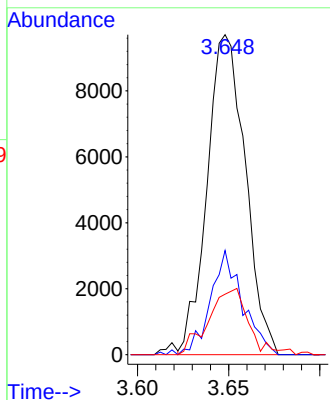
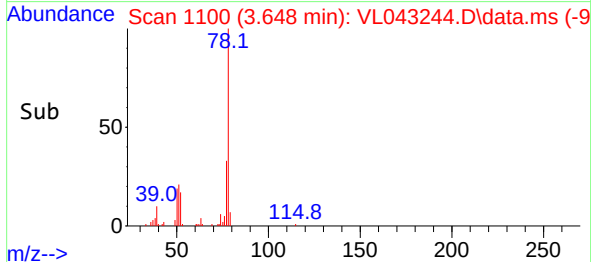


Tgt Ion: 78 Resp: 14120

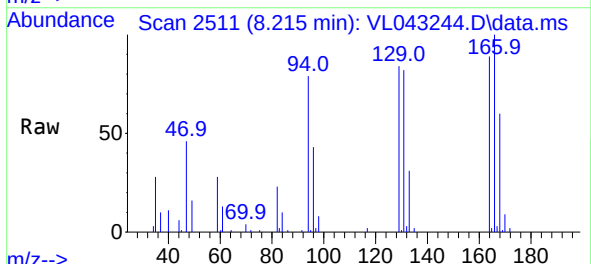
Ion	Ratio	Lower	Upper
78	100		
77	32.6	17.5	26.3
50	18.9	15.5	23.3

Manual Integrations
APPROVED

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

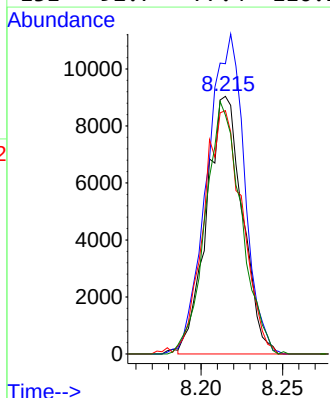
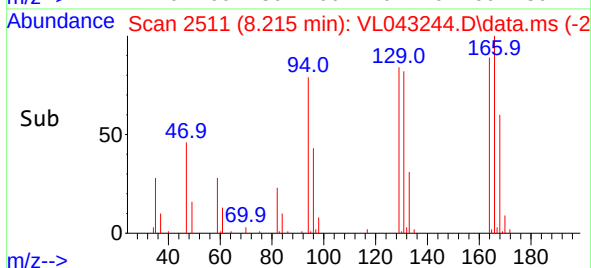


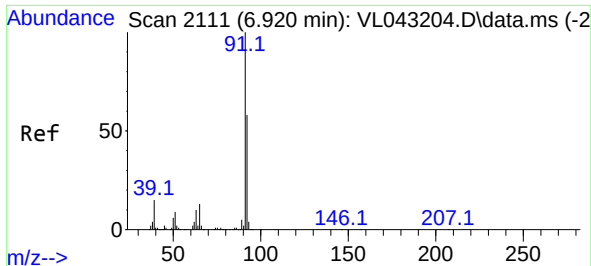
#52
Tetrachloroethene
Concen: 1.369 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47



Tgt Ion:164 Resp: 13878

Ion	Ratio	Lower	Upper
164	100		
166	111.6	99.4	149.2
129	94.5	81.8	122.8
131	92.7	77.4	116.2





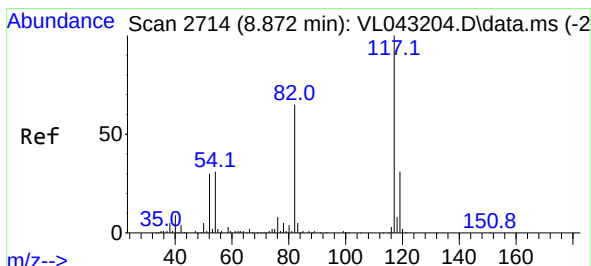
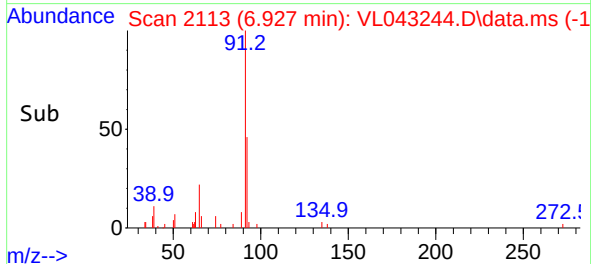
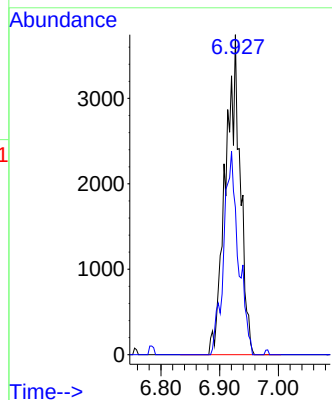
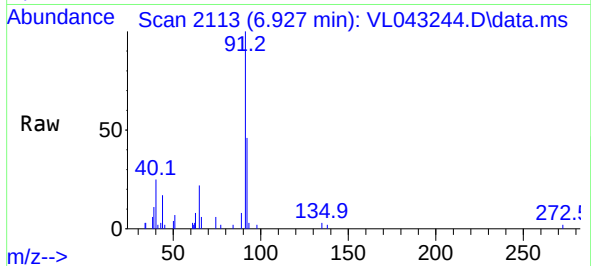
#53
Toluene
Concen: 0.202 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Instrument :
MSVOA_L
ClientSampleId :
14-SG-1

Tgt Ion: 91 Resp: 651
Ion Ratio Lower Upper
91 100
92 63.8 47.4 71.0

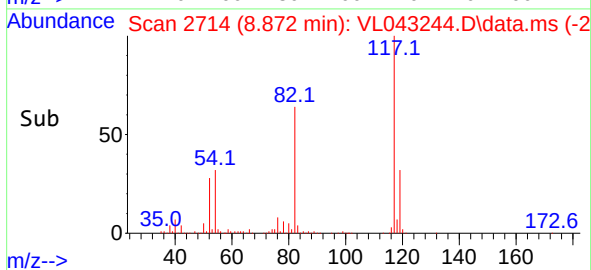
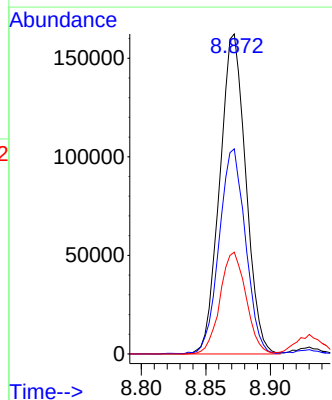
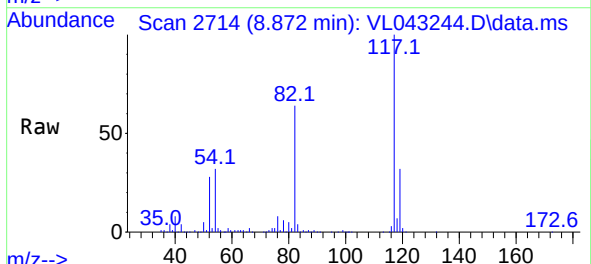
Manual Integrations
APPROVED

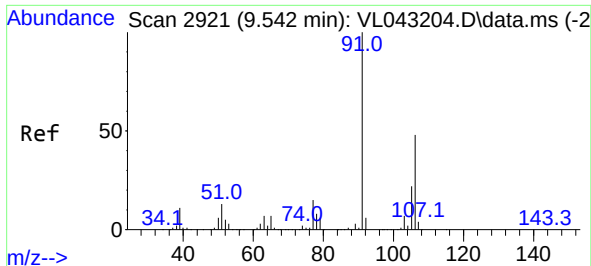
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

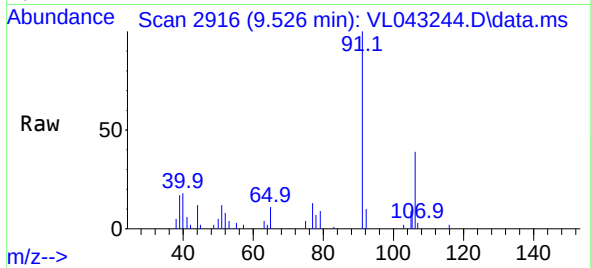
Tgt Ion:117 Resp: 227663
Ion Ratio Lower Upper
117 100
82 65.1 56.1 84.1
119 31.8 25.0 37.6





#59
m/p-Xylene
Concen: 0.230 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.016 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

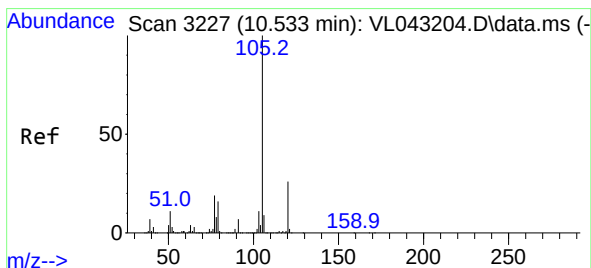
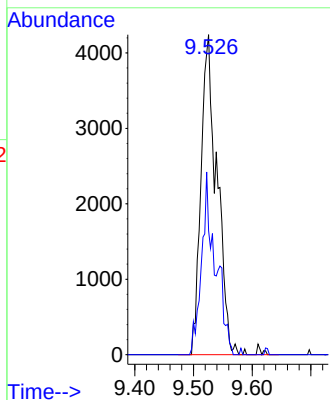
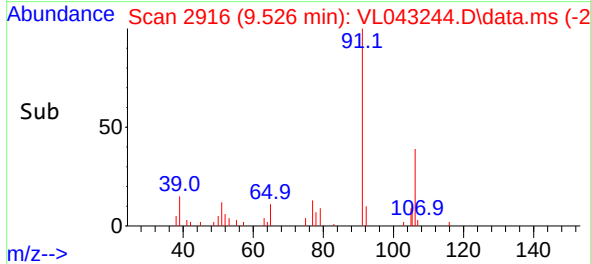
Instrument :
MSVOA_L
ClientSampleId :
14-SG-1



Tgt Ion: 91 Resp: 808
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1

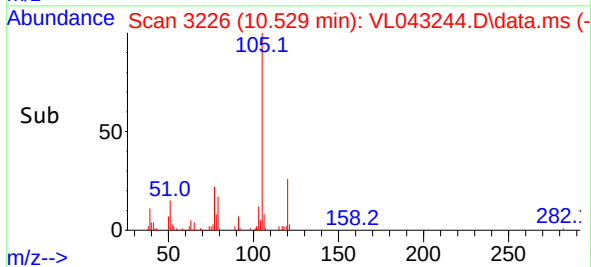
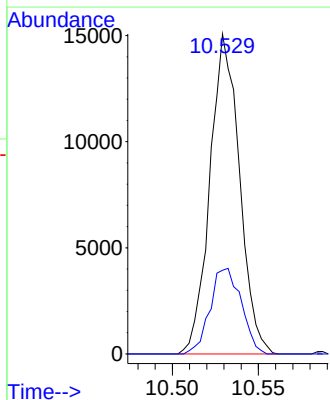
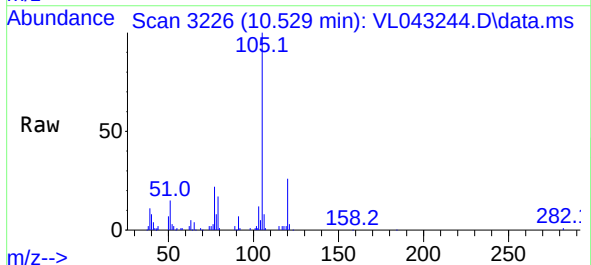
Manual Integrations
APPROVED

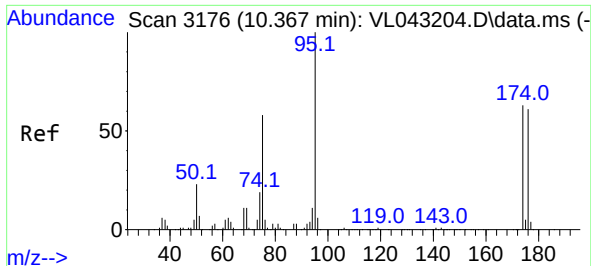
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#62
Isopropylbenzene
Concen: 0.287 ppbv
RT: 10.529 min Scan# 3226
Delta R.T. -0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

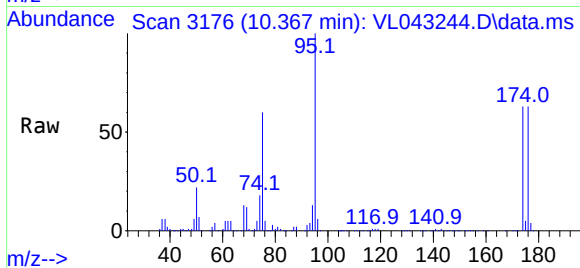
Tgt Ion:105 Resp: 18013
Ion Ratio Lower Upper
105 100
120 28.2 19.8 29.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.959 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

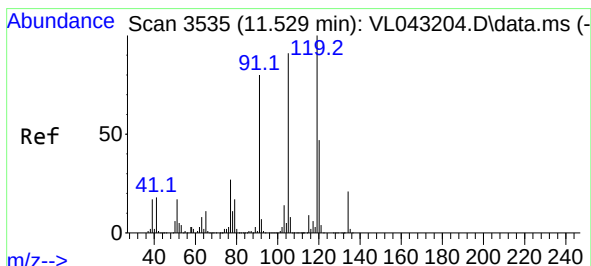
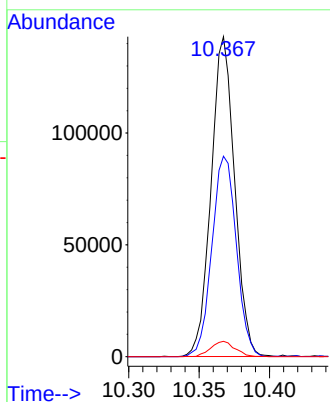
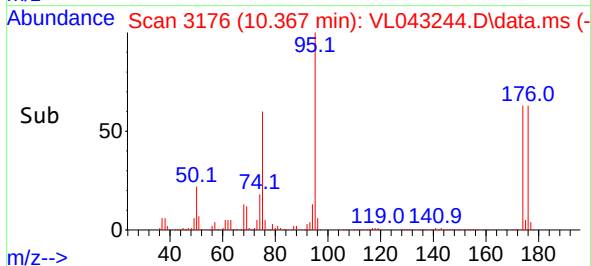
Instrument :
MSVOA_L
ClientSampleId :
14-SG-1



Tgt Ion: 95 Resp: 166190
Ion Ratio Lower Upper
95 100
174 65.5 50.2 75.2
175 5.0 4.1 6.1

Manual Integrations
APPROVED

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



#74
1,2,4-Trimethylbenzene
Concen: 0.148 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL043244.D
Acq: 19 Nov 2025 17:47

Tgt Ion:105 Resp: 5794
Ion Ratio Lower Upper
105 100
120 40.7 41.7 62.5#
91 11.4 70.0 105.0#
77 14.1 23.8 35.8#

