

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042317.D
 Acq On : 11 Apr 2025 13:15
 Operator : SY/MD
 Sample : Q1665-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-2-3242025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 11 22:59:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	179309	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	422807	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	360993	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	291371	9.829	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	10578	0.400	ppbv	98
4) Chloromethane	1.531	50	6409	0.592	ppbv	93
9) Propene	1.489	41	53741m	4.335	ppbv	
10) Heptane	4.978	43	5613m	0.170	ppbv	
11) Trichlorofluoromethane	1.881	101	5509	0.214	ppbv	86
13) Ethanol	1.725	45	1540169	1314.265	ppbv	93
15) Acetone	1.835	43	2074699	82.732	ppbv #	78
17) tert-Butyl alcohol	2.046	59	14565	0.466	ppbv	97
19) Isopropyl Alcohol	1.887	45	1147205	81.079	ppbv #	58
20) Methylene Chloride	2.065	84	14725	1.577	ppbv	90
26) Hexane	2.829	57	64050	2.548	ppbv	93
29) Chloroform	2.855	83	50104	1.362	ppbv	95
34) 2-Butanone	2.560	43	822701	26.834	ppbv	98
35) Carbon Tetrachloride	3.768	117	2921m	0.088	ppbv	
36) Benzene	3.664	78	25066	0.598	ppbv #	90
52) Tetrachloroethene	8.228	164	585m	0.035	ppbv	
53) Toluene	6.939	91	24232	0.488	ppbv	99
59) m/p-Xylene	9.535	91	9717m	0.190	ppbv	
60) o-Xylene	9.969	91	5940	0.116	ppbv	89
74) 1,2,4-Trimethylbenzene	11.542	105	7764	0.121	ppbv #	72

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

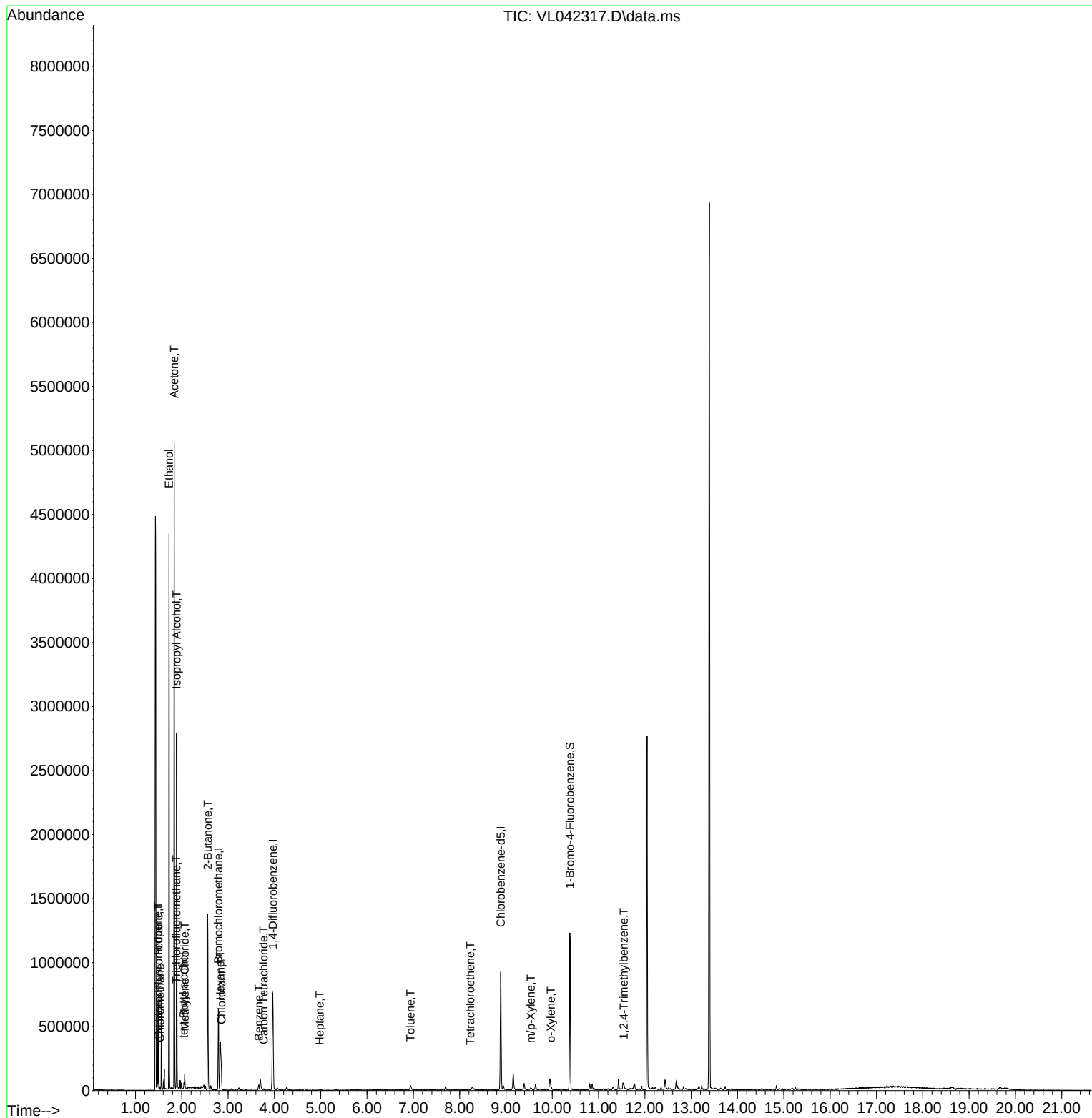
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042317.D
Acq On : 11 Apr 2025 13:15
Operator : SY/MD
Sample : Q1665-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

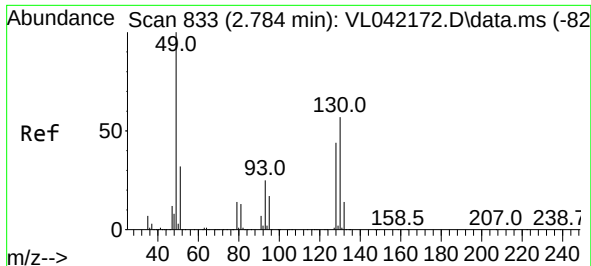
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

Quant Time: Apr 11 22:59:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

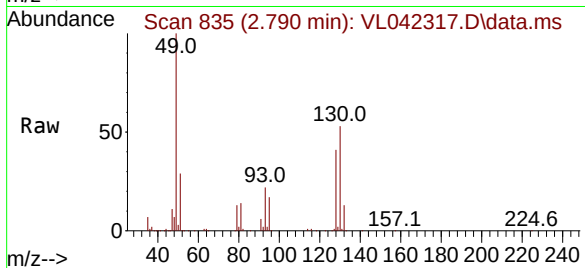
Reviewed By : Semsettin Yesilyurt 04/16/2025
Supervised By : Mahesh Dadoda 04/17/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

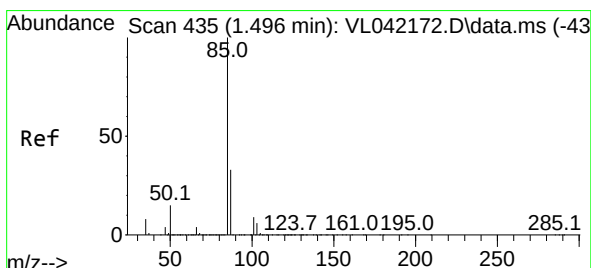
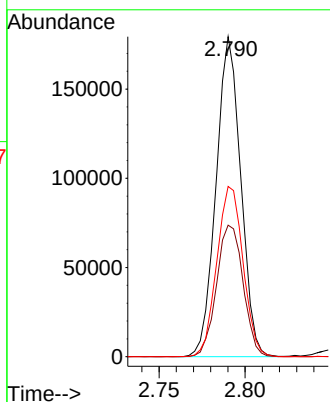
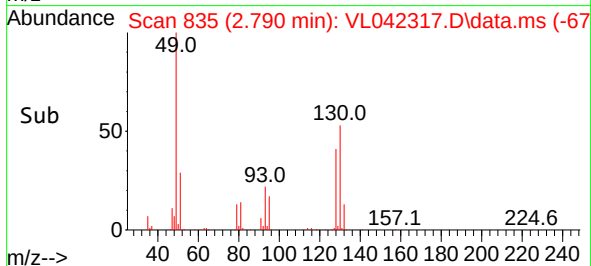
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025



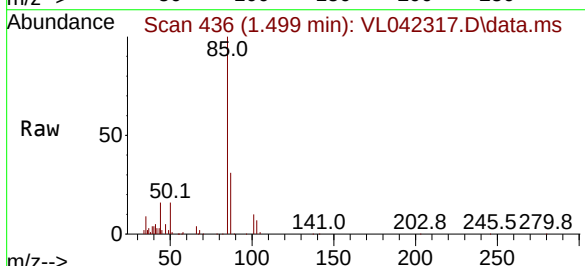
Tgt Ion: 49 Resp: 179309
Ion Ratio Lower Upper
49 100
128 44.1 22.9 68.5
130 56.5 28.8 86.4

Manual Integrations
APPROVED

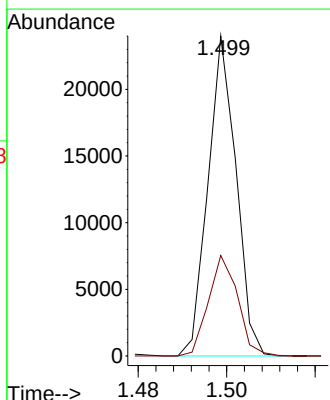
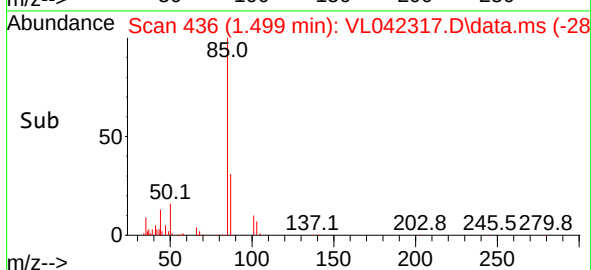
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

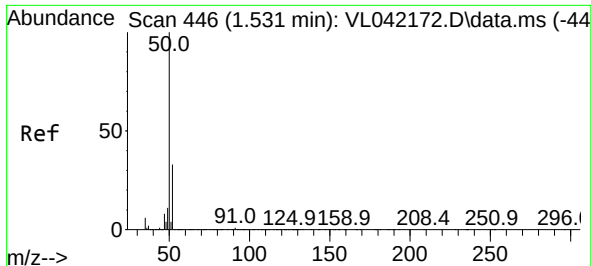


#2
Dichlorodifluoromethane
Concen: 0.400 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15



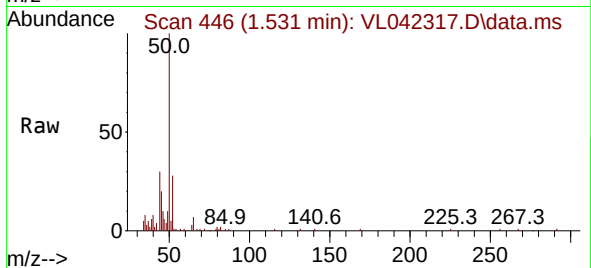
Tgt Ion: 85 Resp: 10578
Ion Ratio Lower Upper
85 100
87 31.4 26.1 39.1





#4
Chloromethane
Concen: 0.592 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

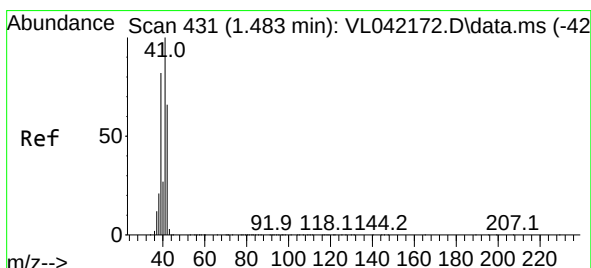
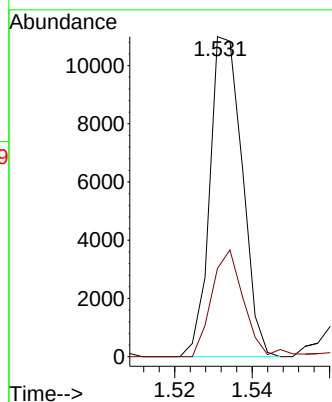
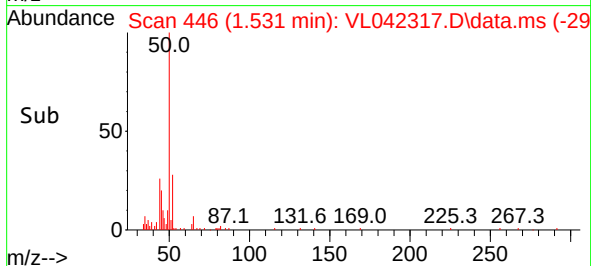
Instrument : MSVOA_L
ClientSampleId : IA-B10-2-3242025



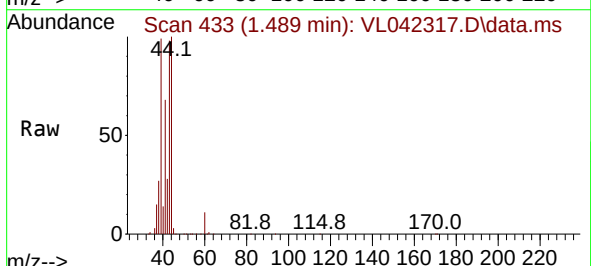
Tgt Ion: 50 Resp: 6409
Ion Ratio Lower Upper
50 100
52 28.9 26.1 39.1

Manual Integrations
APPROVED

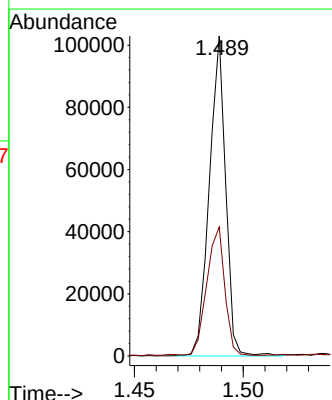
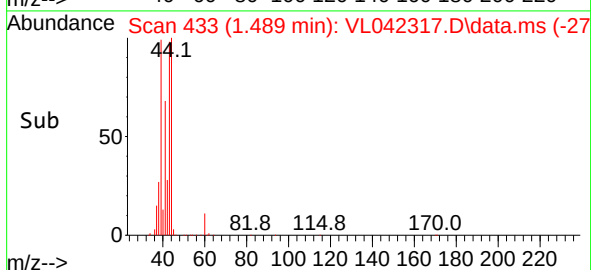
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

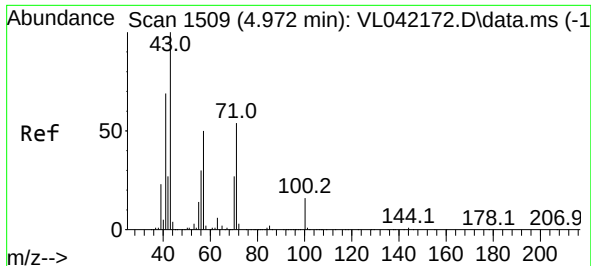


#9
Propene
Concen: 4.335 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15



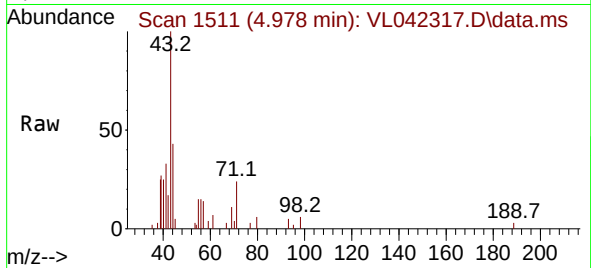
Tgt Ion: 41 Resp: 53741
Ion Ratio Lower Upper
41 100
42 131.6 55.4 83.2#





#10
Heptane
Concen: 0.170 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

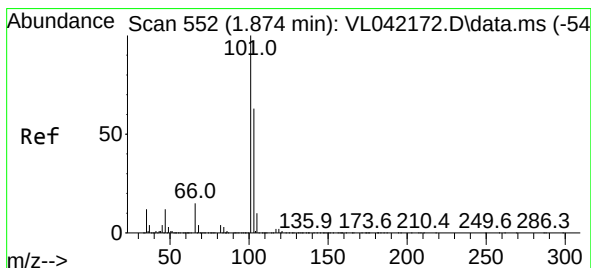
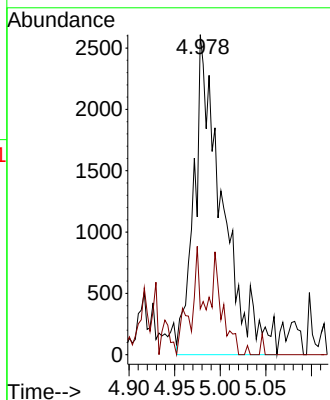
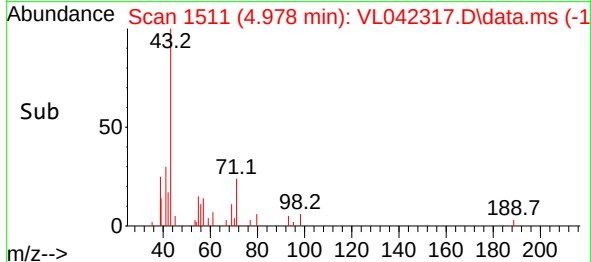
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025



Tgt Ion: 43 Resp: 561
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2

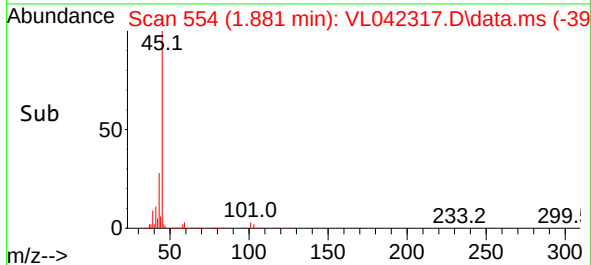
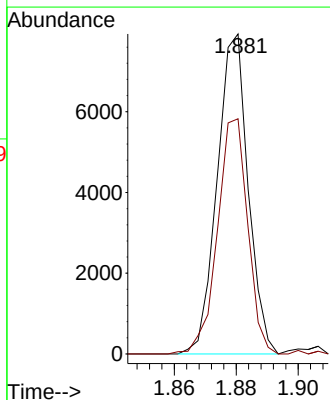
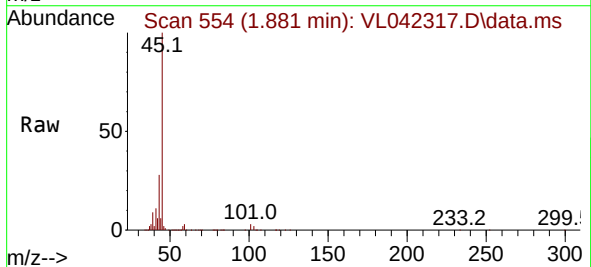
Manual Integrations
APPROVED

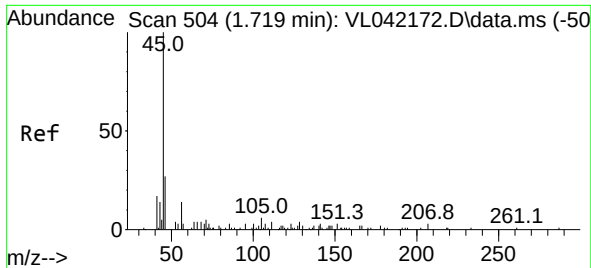
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#11
Trichlorofluoromethane
Concen: 0.214 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:101 Resp: 5509
Ion Ratio Lower Upper
101 100
103 73.5 50.2 75.2





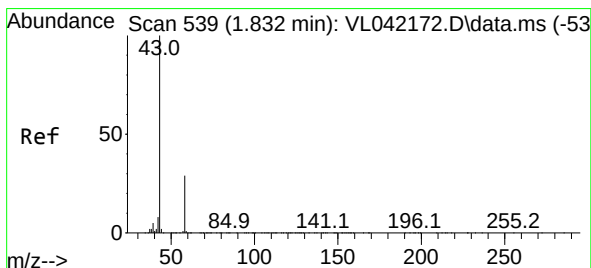
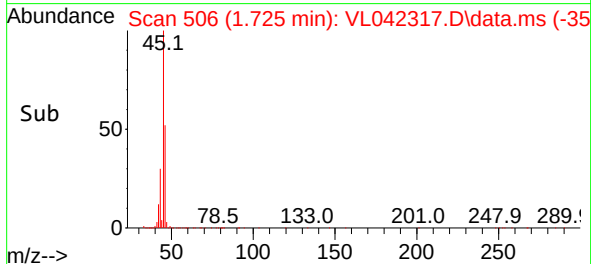
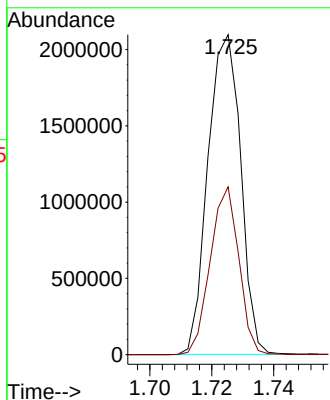
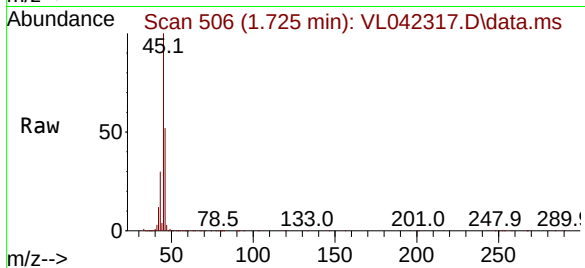
#13
Ethanol
Concen: 1314.265 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

Tgt Ion: 45 Resp: 1540169
Ion Ratio Lower Upper
45 100
46 45.9 20.2 80.8

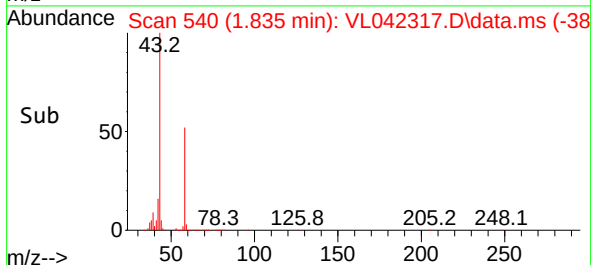
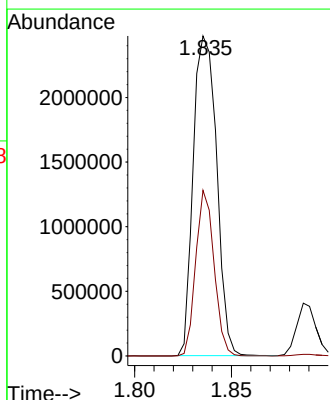
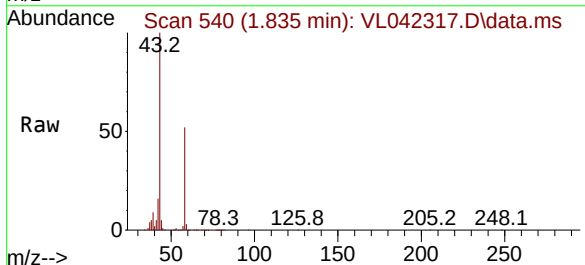
Manual Integrations
APPROVED

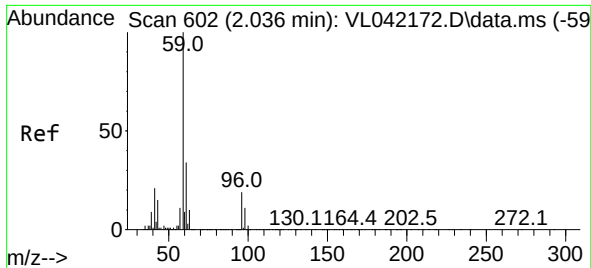
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#15
Acetone
Concen: 82.732 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

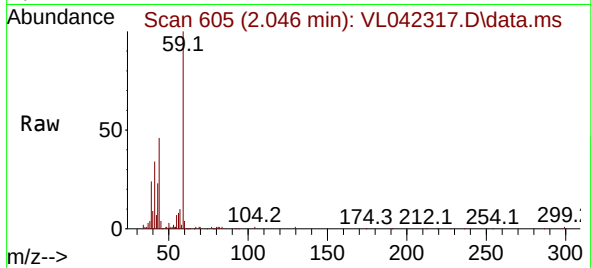
Tgt Ion: 43 Resp: 2074699
Ion Ratio Lower Upper
43 100
58 40.8 23.2 34.8#





#17
tert-Butyl alcohol
Concen: 0.466 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

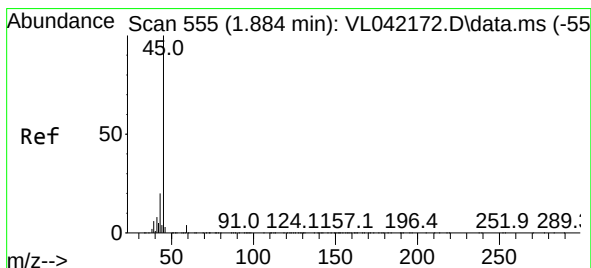
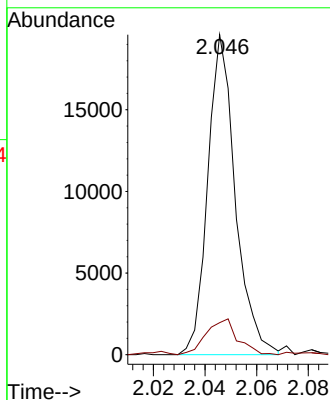
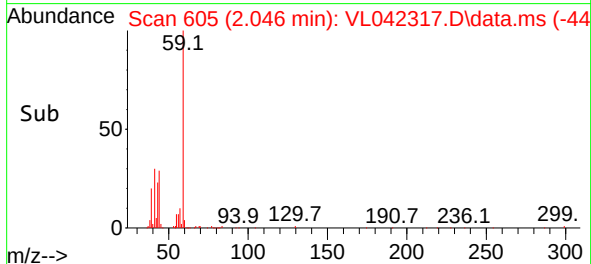
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025



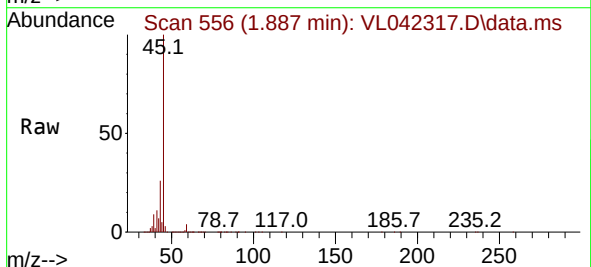
Tgt Ion: 59 Resp: 14568
Ion Ratio Lower Upper
59 100
57 12.2 8.9 13.3

Manual Integrations
APPROVED

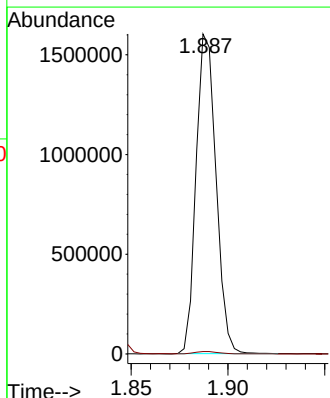
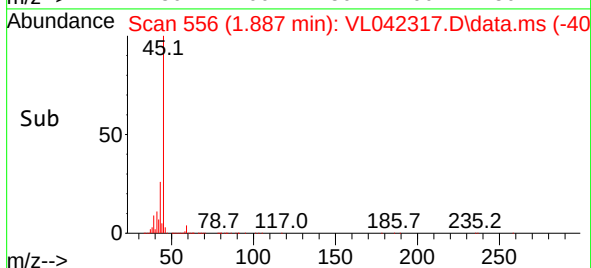
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

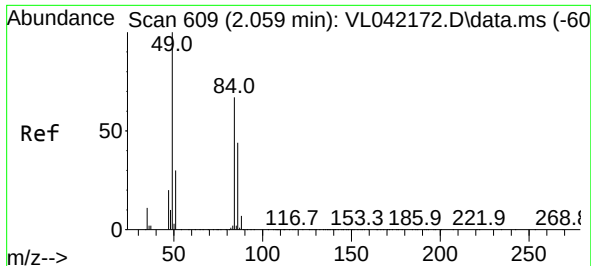


#19
Isopropyl Alcohol
Concen: 81.079 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15



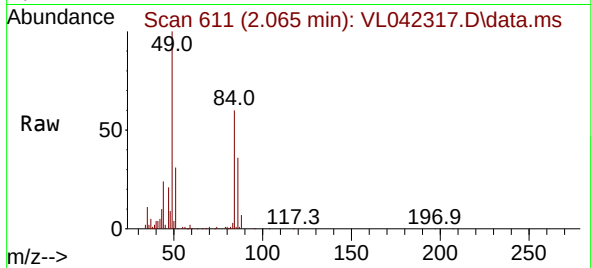
Tgt Ion: 45 Resp: 1147205
Ion Ratio Lower Upper
45 100
58 73.9 36.9 55.3#





#20
Methylene Chloride
Concen: 1.577 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

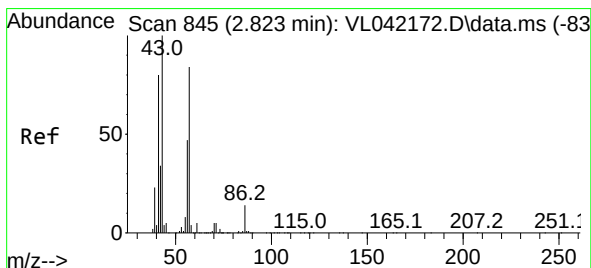
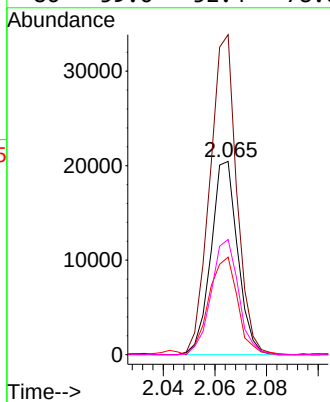
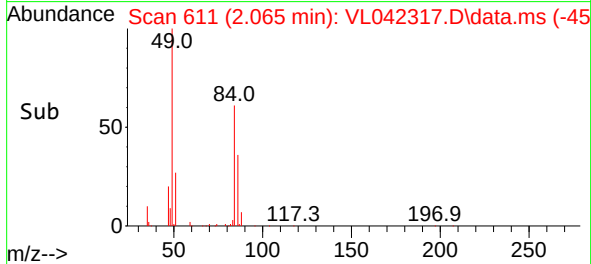


Tgt Ion: 84 Resp: 14725

Ion	Ratio	Lower	Upper
84	100		
49	165.6	120.2	180.4
51	49.9	37.4	56.0
86	59.6	52.4	78.6

Manual Integrations
APPROVED

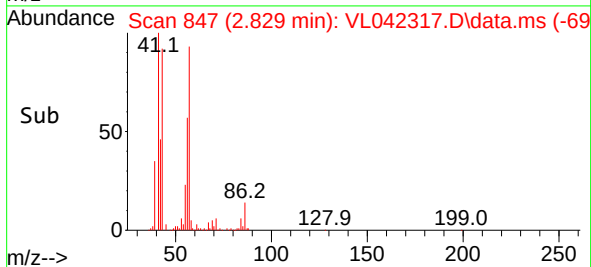
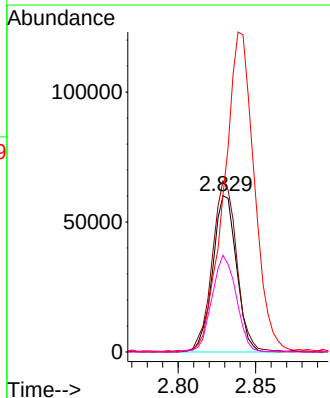
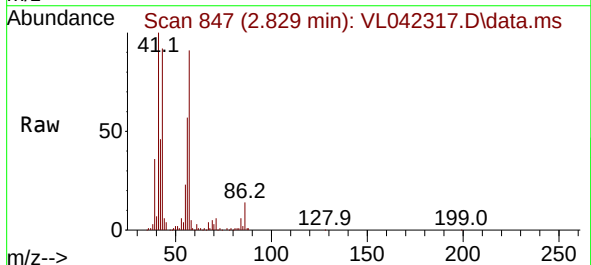
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

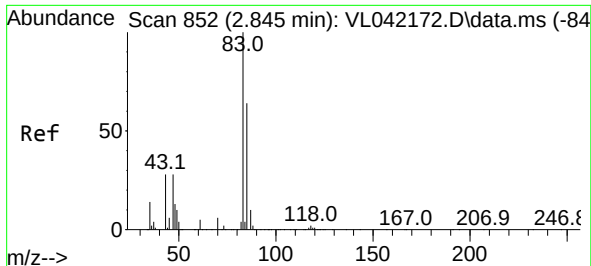


#26
Hexane
Concen: 2.548 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion: 57 Resp: 64050

Ion	Ratio	Lower	Upper
57	100		
41	113.9	76.6	114.8
43	263.8	207.8	311.8
56	63.8	43.6	65.4





#29

Chloroform

Concen: 1.362 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.009 min

Lab File: VL042317.D

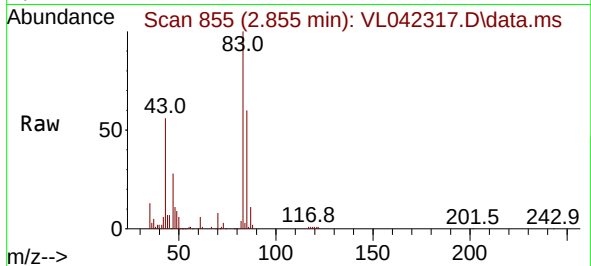
Acq: 11 Apr 2025 13:15

Instrument :

MSVOA_L

ClientSampleId :

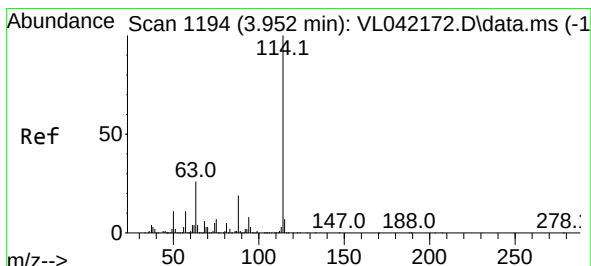
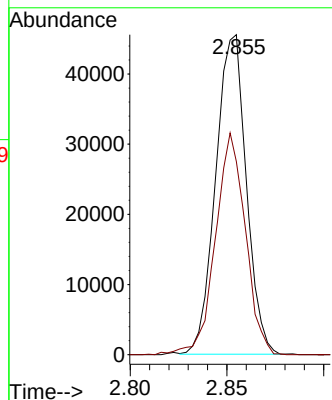
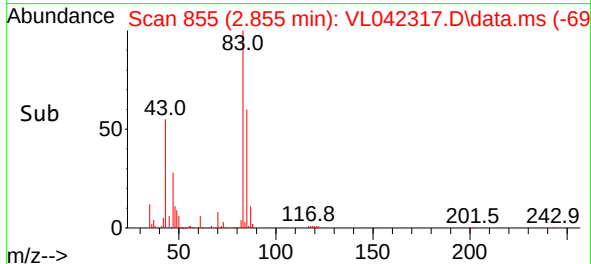
IA-B10-2-3242025



Tgt Ion: 83 Resp: 50104
 Ion Ratio Lower Upper
 83 100
 85 60.2 51.4 77.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

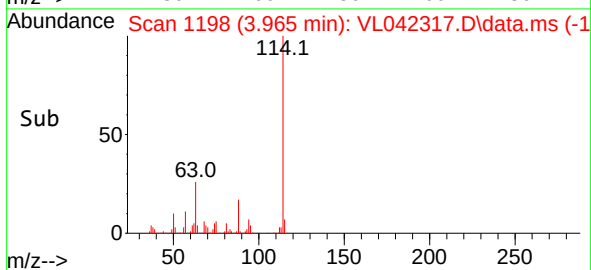
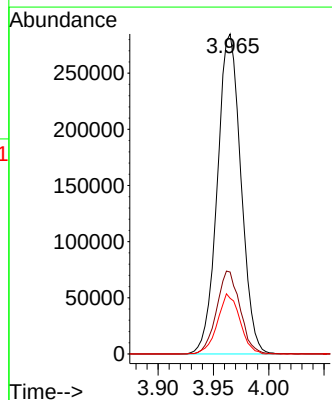
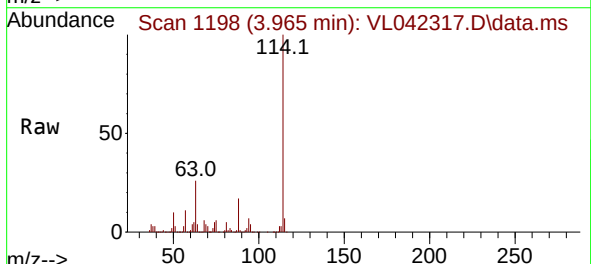
RT: 3.965 min Scan# 1198

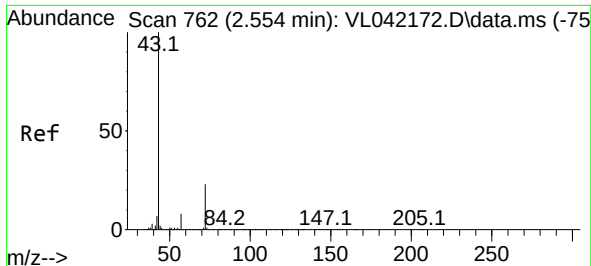
Delta R.T. 0.013 min

Lab File: VL042317.D

Acq: 11 Apr 2025 13:15

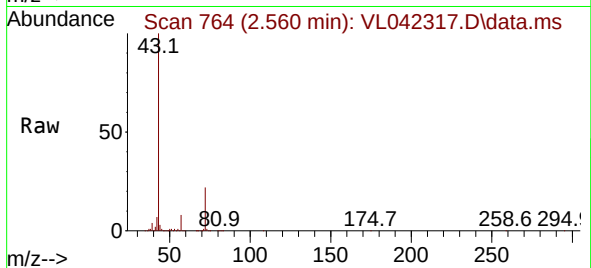
Tgt Ion:114 Resp: 422807
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.7 31.1
 88 17.9 15.0 22.4





#34
2-Butanone
Concen: 26.834 ppbv
RT: 2.560 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

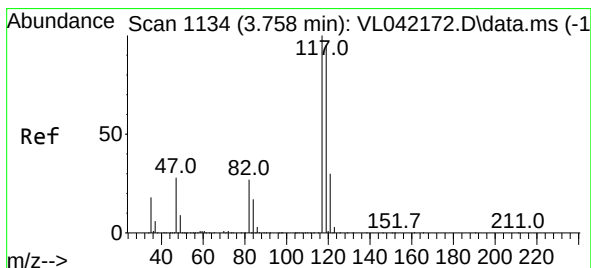
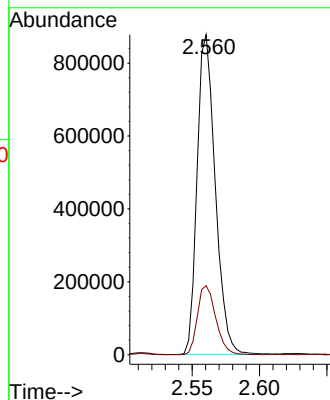
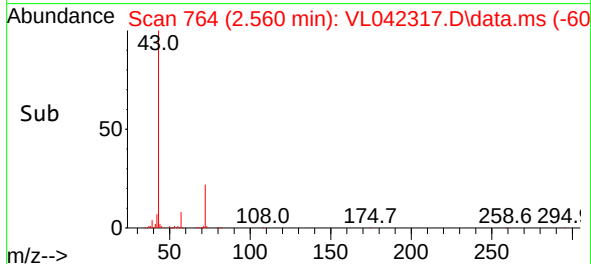
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025



Tgt Ion: 43 Resp: 82270
Ion Ratio Lower Upper
43 100
72 21.9 18.2 27.2

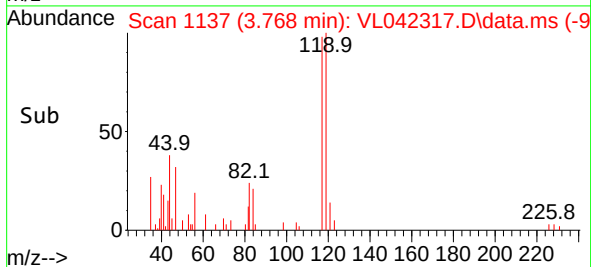
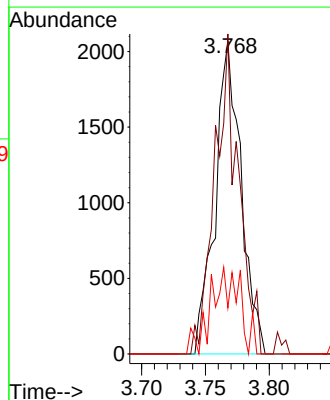
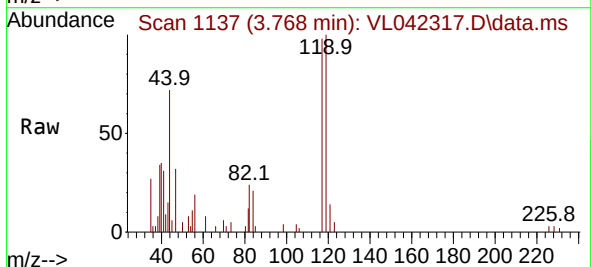
Manual Integrations
APPROVED

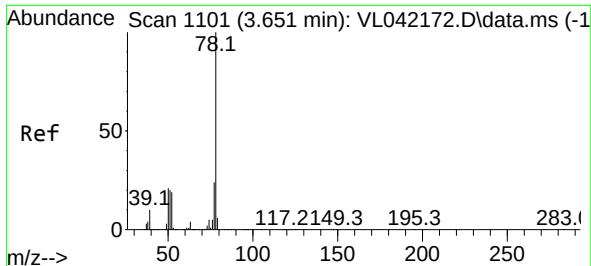
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#35
Carbon Tetrachloride
Concen: 0.088 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

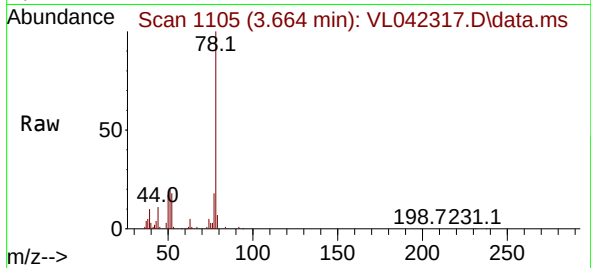
Tgt Ion:117 Resp: 2921
Ion Ratio Lower Upper
117 100
119 102.2 76.2 114.2
121 14.7 24.2 36.4#





#36
Benzene
Concen: 0.598 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

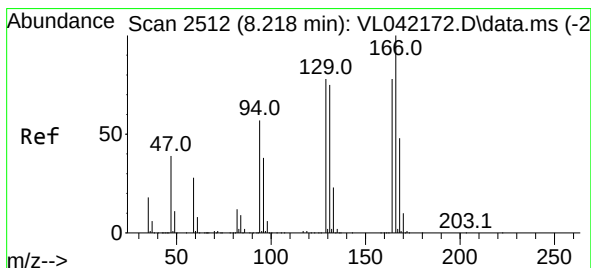
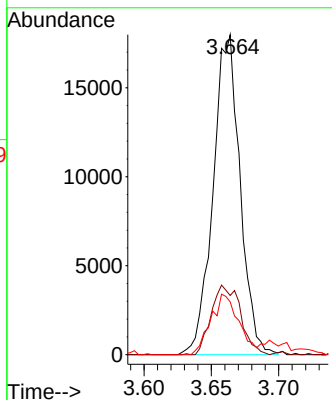
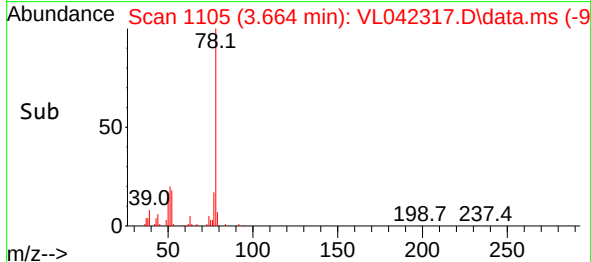
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025



Tgt Ion: 78 Resp: 2506
Ion Ratio Lower Upper
78 100
77 18.5 19.1 28.7
50 16.5 16.6 24.8

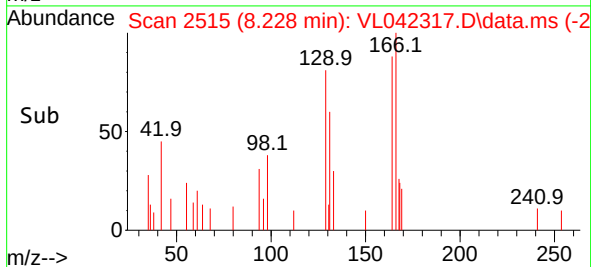
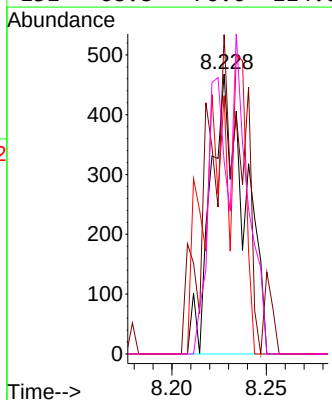
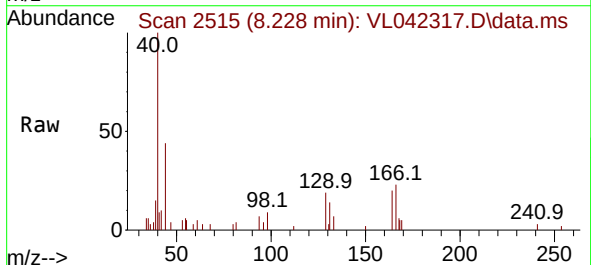
Manual Integrations
APPROVED

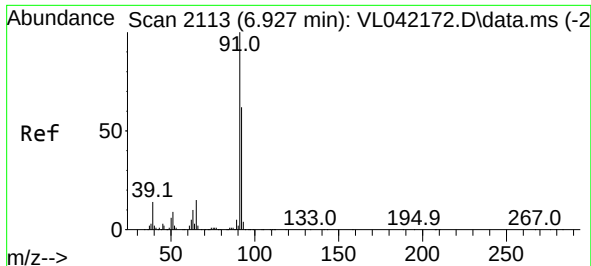
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#52
Tetrachloroethene
Concen: 0.035 ppbv m
RT: 8.228 min Scan# 2515
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Tgt Ion:164 Resp: 585
Ion Ratio Lower Upper
164 100
166 114.1 102.5 153.7
129 92.3 79.8 119.8
131 68.8 76.6 114.8





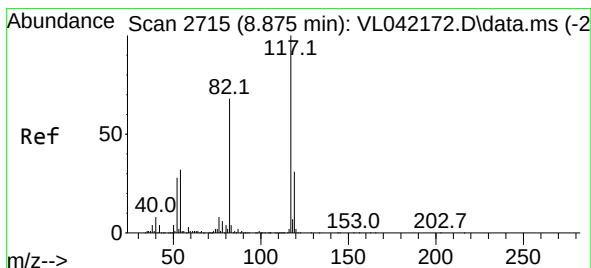
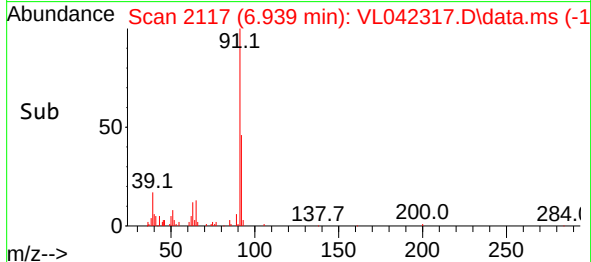
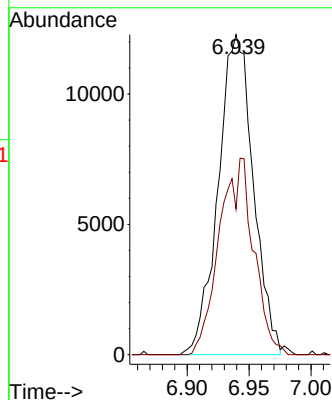
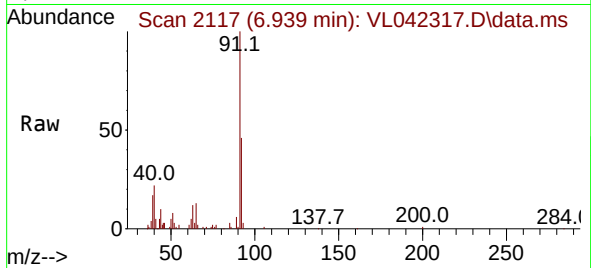
#53
Toluene
Concen: 0.488 ppbv
RT: 6.939 min Scan# 2117
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025

Tgt Ion: 91 Resp: 2423
Ion Ratio Lower Upper
91 100
92 60.1 48.4 72.6

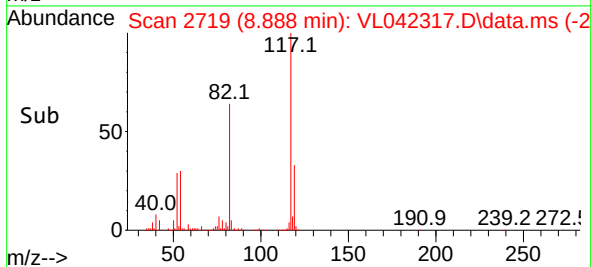
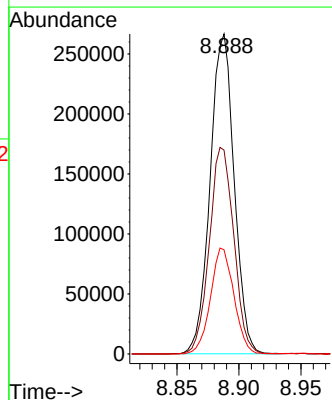
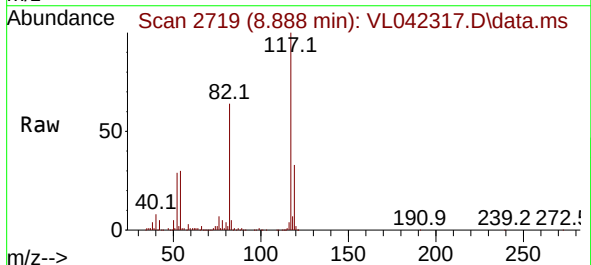
Manual Integrations
APPROVED

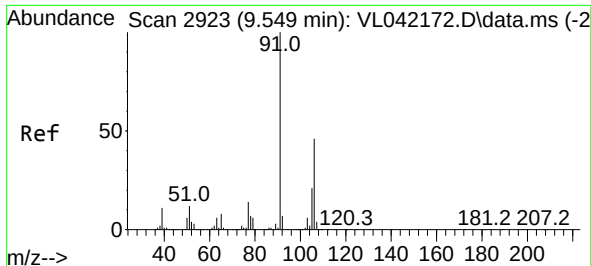
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

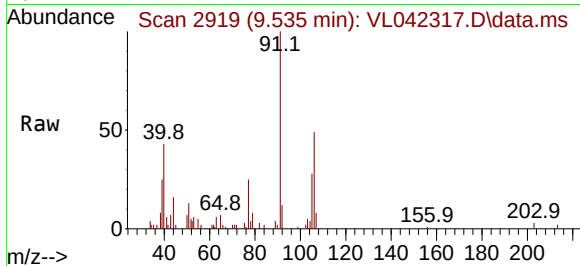
Tgt Ion:117 Resp: 360993
Ion Ratio Lower Upper
117 100
82 65.8 55.8 83.6
119 32.5 25.5 38.3





#59
m/p-Xylene
Concen: 0.190 ppbv m
RT: 9.535 min Scan# 2919
Delta R.T. -0.013 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

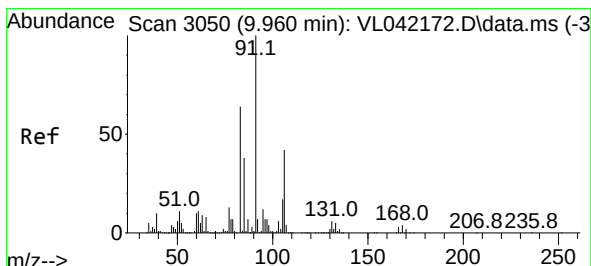
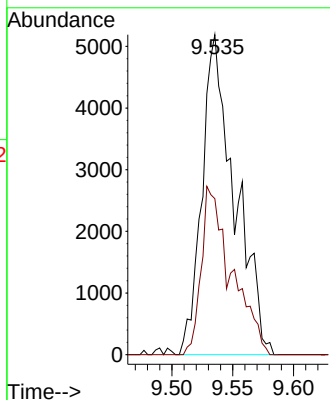
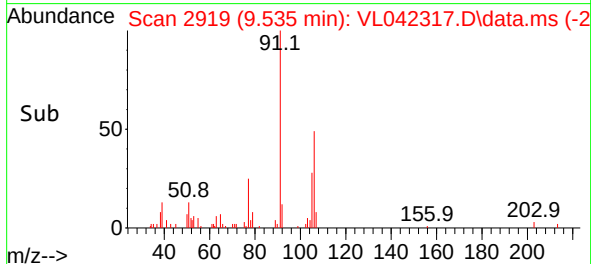
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025



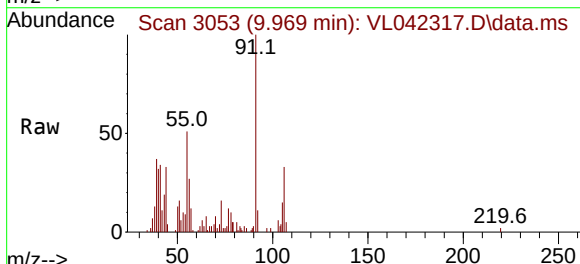
Tgt Ion: 91 Resp: 971
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6

Manual Integrations
APPROVED

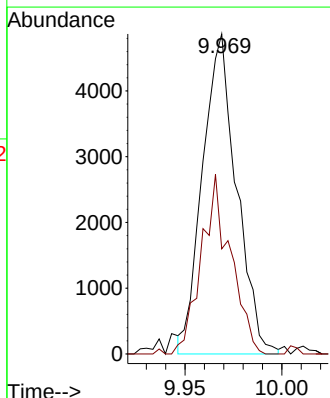
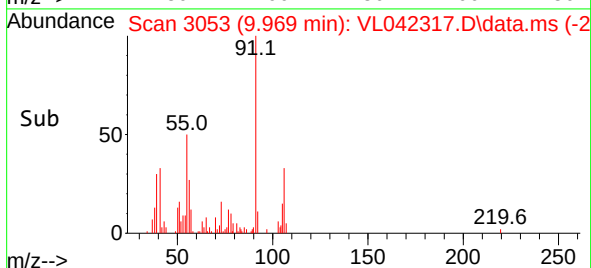
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

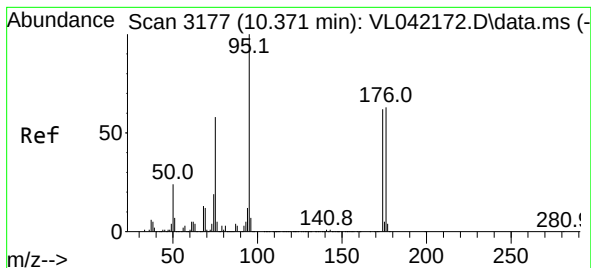


#60
o-Xylene
Concen: 0.116 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15



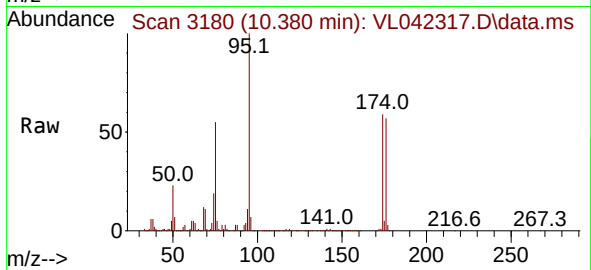
Tgt Ion: 91 Resp: 5940
Ion Ratio Lower Upper
91 100
106 48.4 20.8 62.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.829 ppbv
RT: 10.380 min Scan# 3177
Delta R.T. 0.009 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15

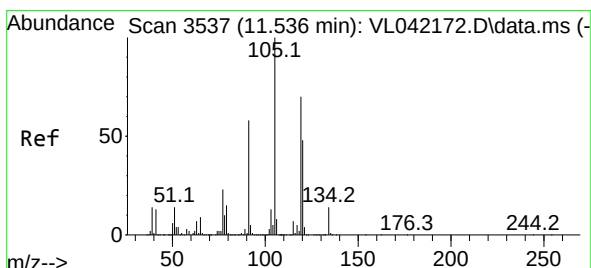
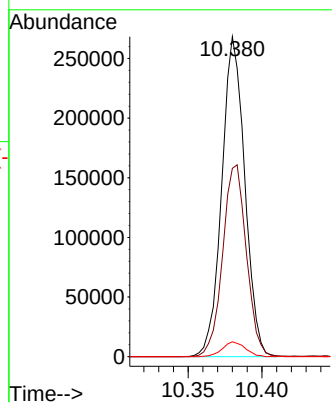
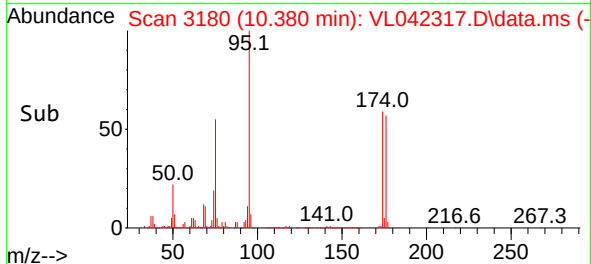
Instrument : MSVOA_L
ClientSampleId : IA-B10-2-3242025



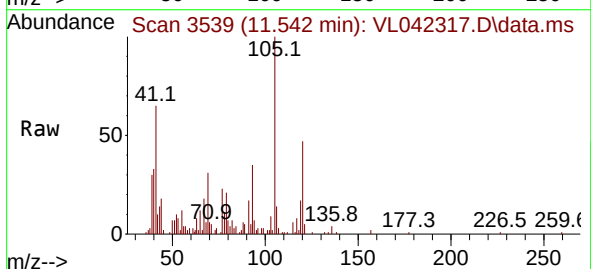
Tgt Ion: 95 Resp: 29137
Ion Ratio Lower Upper
95 100
174 62.0 50.6 76.0
175 4.7 3.8 5.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.121 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.006 min
Lab File: VL042317.D
Acq: 11 Apr 2025 13:15



Tgt Ion:105 Resp: 7764
Ion Ratio Lower Upper
105 100
120 47.1 38.6 58.0
91 14.6 46.2 69.2#
77 19.3 18.6 27.8

