

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042407.D
 Acq On : 21 Apr 2025 16:20
 Operator : SY/MD
 Sample : Q1844-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 02:56:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	122634	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	335724	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	286487	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 257025 10.918 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 109.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	6122	0.283	ppbv	100
3) Chlorodifluoromethane	1.473	51	12685m	0.615	ppbv	
9) Propene	1.486	41	56144m	5.975	ppbv	
10) Heptane	4.975	43	2921m	0.111	ppbv	
13) Ethanol	1.722	45	18964	12.698	ppbv	79
15) Acetone	1.836	43	49251	2.453	ppbv #	47
19) Isopropyl Alcohol	1.887	45	10924	0.980	ppbv #	33
20) Methylene Chloride	2.062	84	1633	0.208	ppbv	89
26) Hexane	2.826	57	10426	0.520	ppbv #	32
27) Carbon Disulfide	2.150	76	13713	0.639	ppbv #	1
29) Chloroform	2.849	83	20993	0.741	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	9200	0.483	ppbv	93
34) 2-Butanone	2.561	43	5134	0.193	ppbv	97
36) Benzene	3.651	78	4655m	0.129	ppbv	
38) Trichloroethene	4.545	130	97602	6.167	ppbv	96
52) Tetrachloroethene	8.247	164	3985113	284.725	ppbv	91
53) Toluene	6.933	91	9622	0.221	ppbv	95
59) m/p-Xylene	9.526	91	8608m	0.188	ppbv	
60) o-Xylene	9.963	91	4818	0.105	ppbv	92
74) 1,2,4-Trimethylbenzene	11.533	105	8060	0.139	ppbv #	64

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

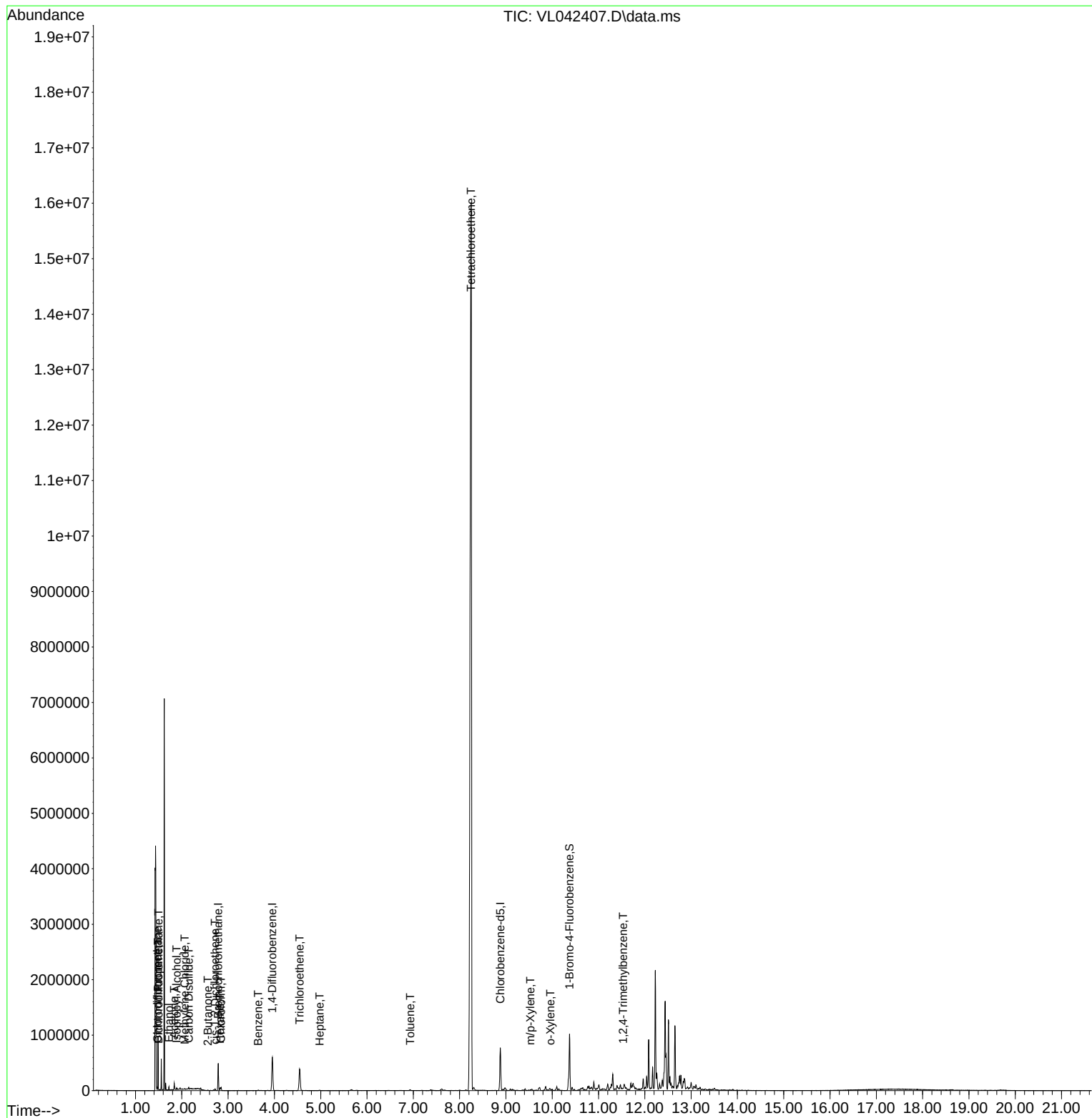
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
Data File : VL042407.D
Acq On : 21 Apr 2025 16:20
Operator : SY/MD
Sample : Q1844-01 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

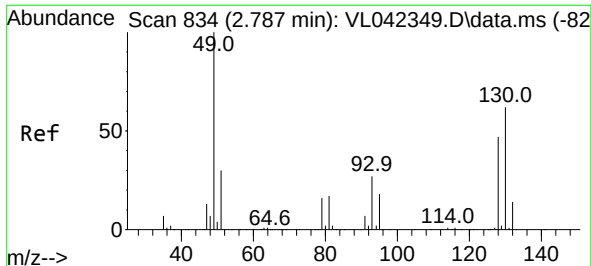
Instrument :
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ClientSampleId :
SV1

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Quant Time: Apr 22 02:56:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





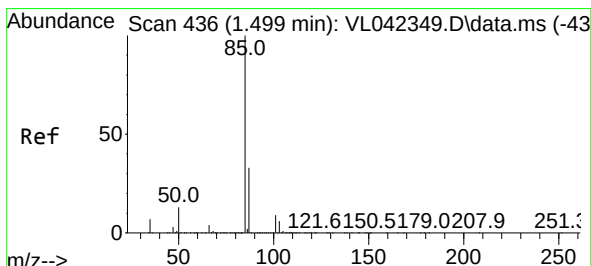
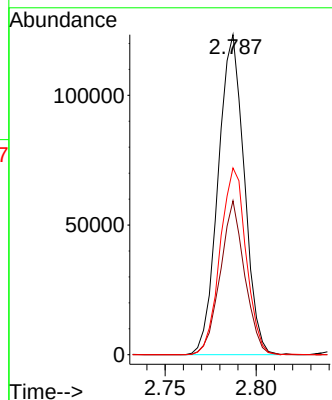
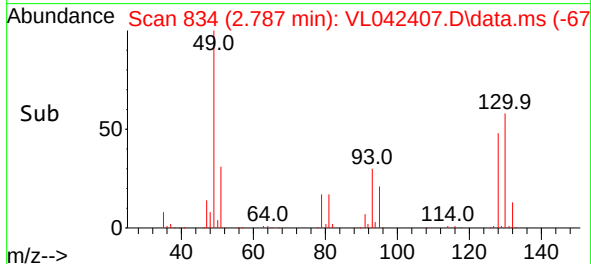
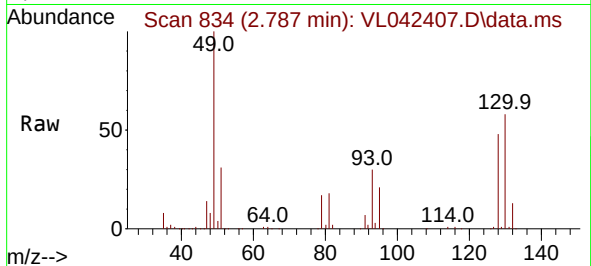
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 122634
Ion Ratio Lower Upper
49 100
128 44.9 22.8 68.4
130 58.1 29.3 88.0

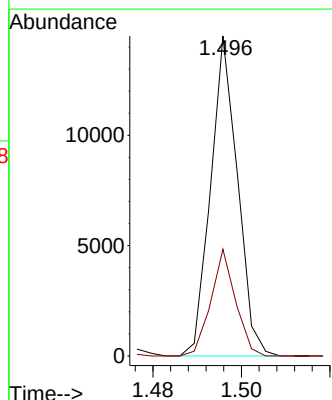
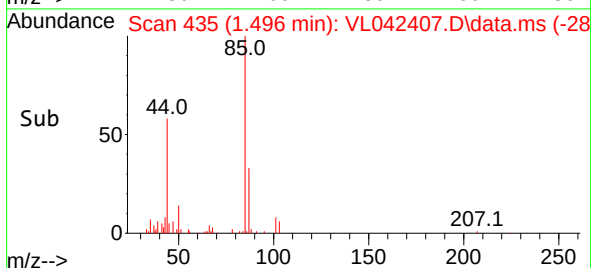
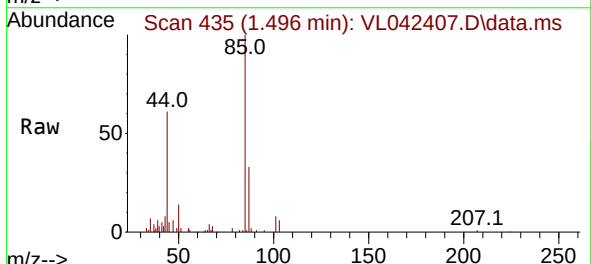
Manual Integrations
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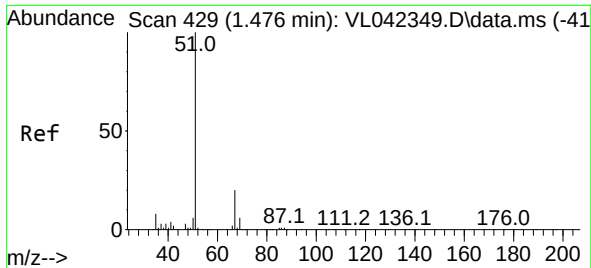
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#2
Dichlorodifluoromethane
Concen: 0.283 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

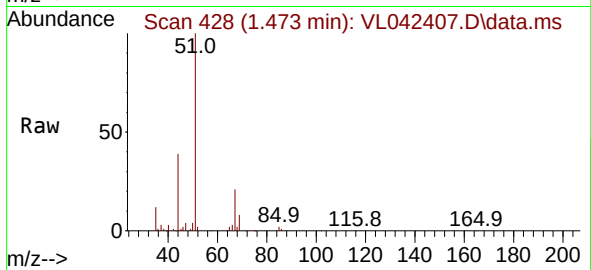
Tgt Ion: 85 Resp: 6122
Ion Ratio Lower Upper
85 100
87 33.3 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.615 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

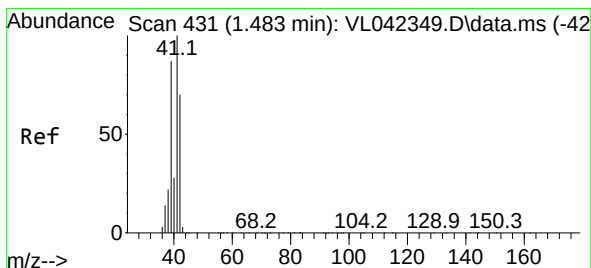
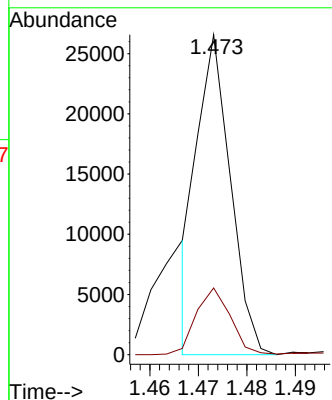
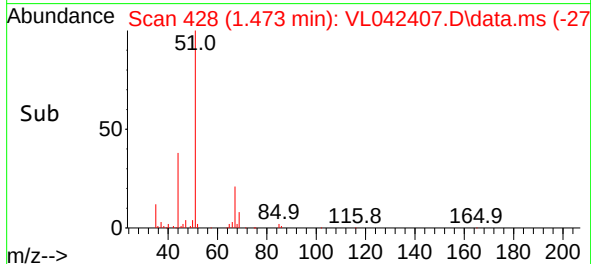
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 51 Resp: 1268
Ion Ratio Lower Upper
51 100
67 22.5 16.2 24.4

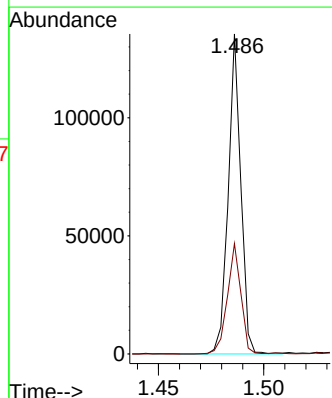
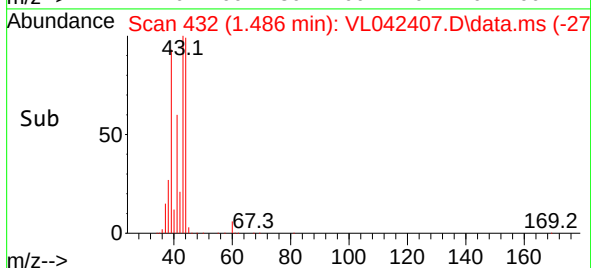
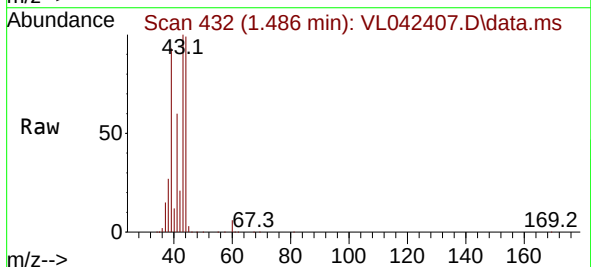
Manual Integrations
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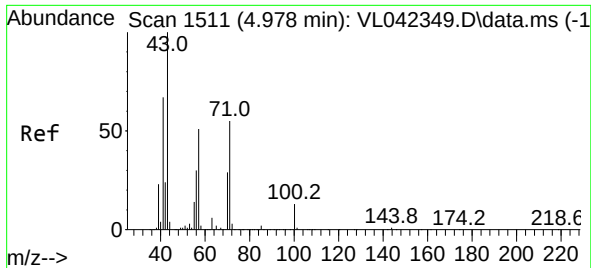
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#9
Propene
Concen: 5.975 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.004 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

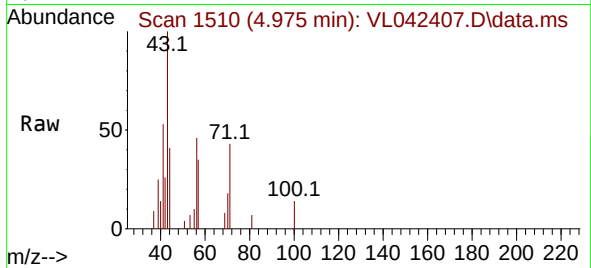
Tgt Ion: 41 Resp: 56144
Ion Ratio Lower Upper
41 100
42 70.2 56.2 84.4





#10
Heptane
Concen: 0.111 ppbv m
RT: 4.975 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

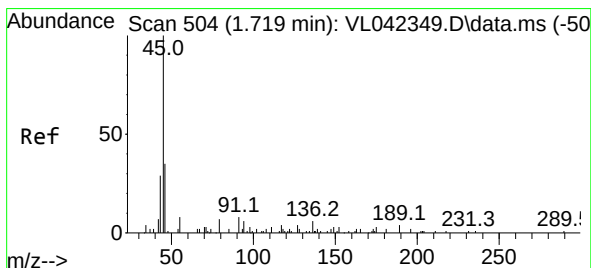
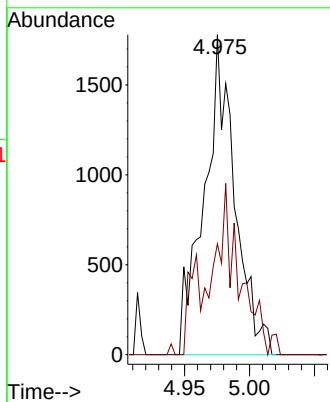
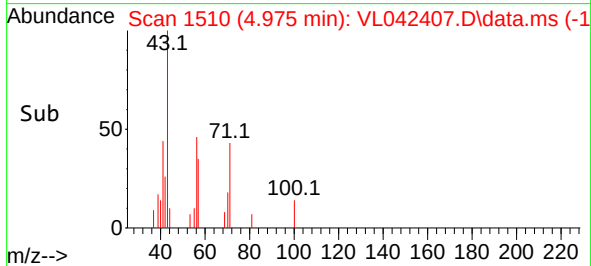
Instrument :
MSVOA_L
ClientSampleId :
SV1



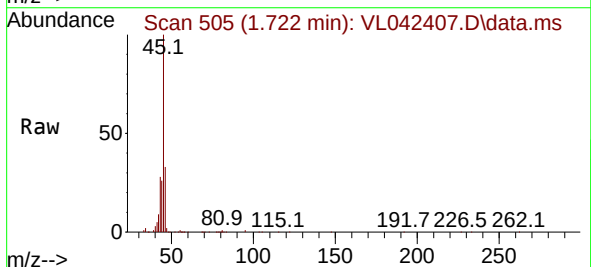
Tgt Ion: 43 Resp: 292
Ion Ratio Lower Upper
43 100
57 55.3 39.9 59.9

Manual Integrations
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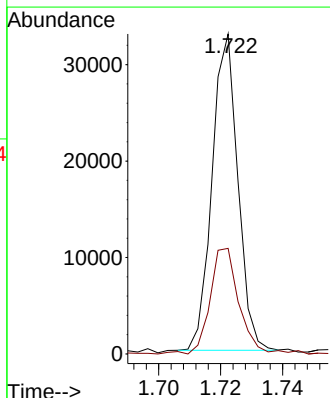
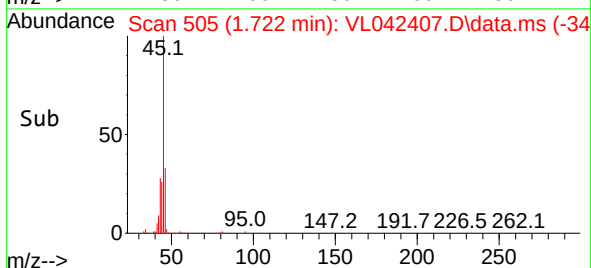
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

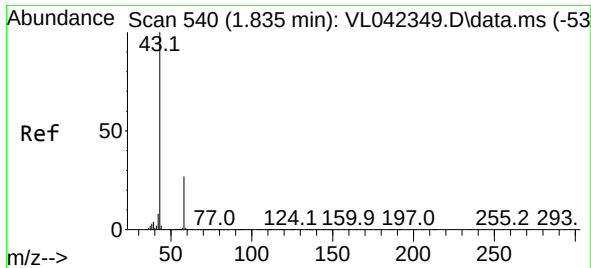


#13
Ethanol
Concen: 12.698 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.004 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20



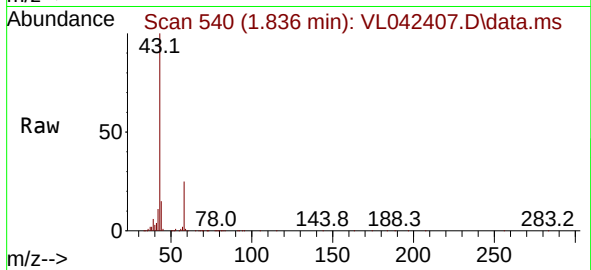
Tgt Ion: 45 Resp: 18964
Ion Ratio Lower Upper
45 100
46 39.7 21.9 87.7





#15
Acetone
Concen: 2.453 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

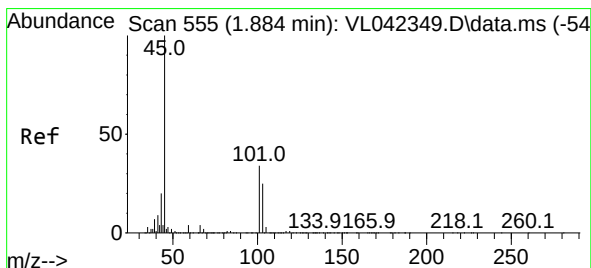
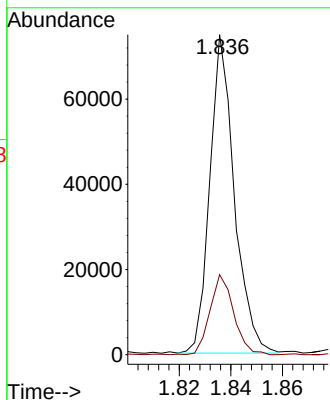
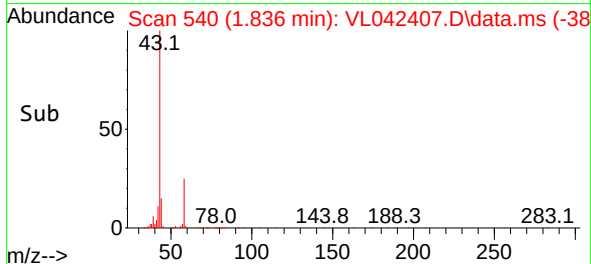
Instrument :
MSVOA_L
ClientSampleId :
SV1



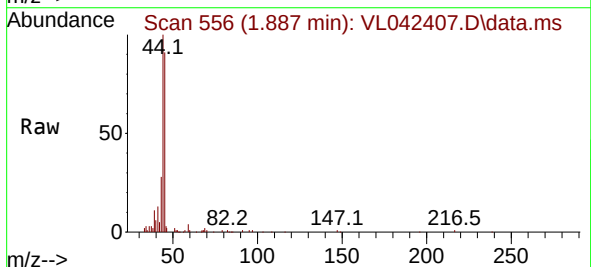
Tgt Ion: 43 Resp: 4925
Ion Ratio Lower Upper
43 100
58 0.0 22.4 33.6

Manual Integrations
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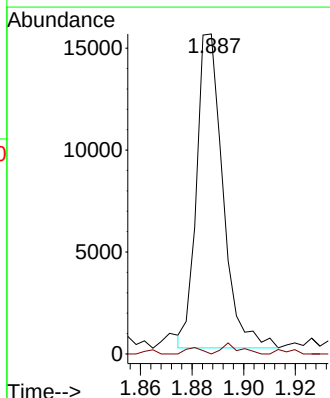
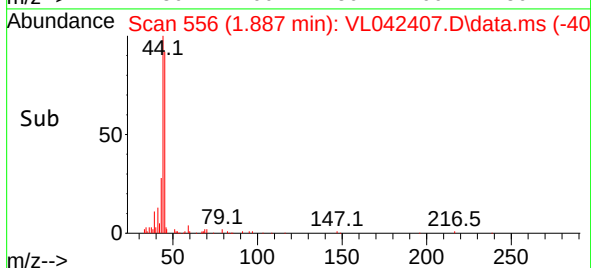
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025

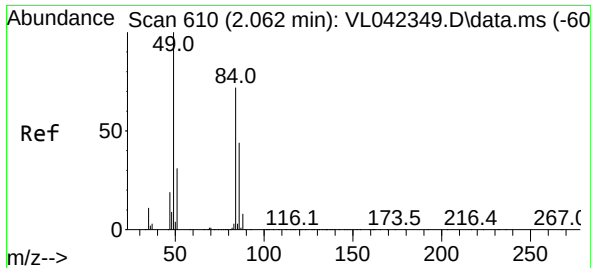


#19
Isopropyl Alcohol
Concen: 0.980 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.004 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20



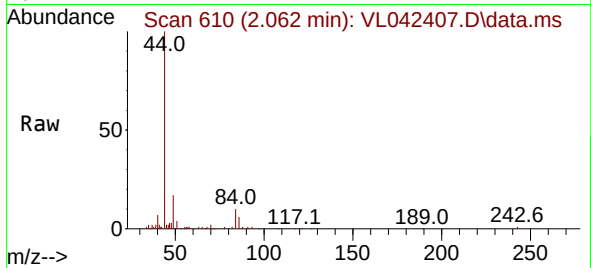
Tgt Ion: 45 Resp: 10924
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7





#20
Methylene Chloride
Concen: 0.208 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

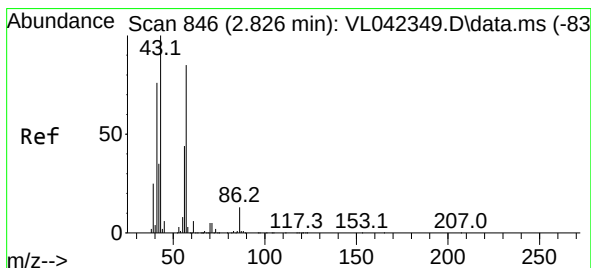
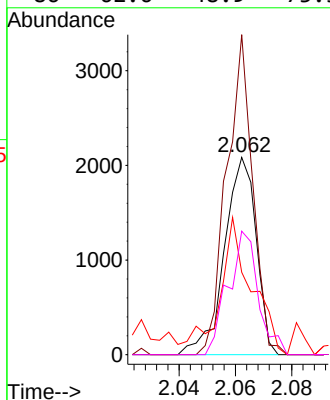
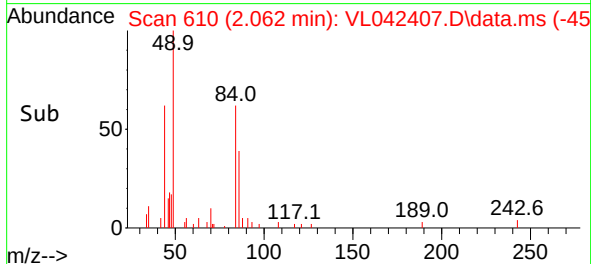
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84	Resp: 163
Ion Ratio	Lower Upper
84 100	
49 158.0	111.6 167.4
51 38.4	35.1 52.7
86 62.6	48.9 73.3

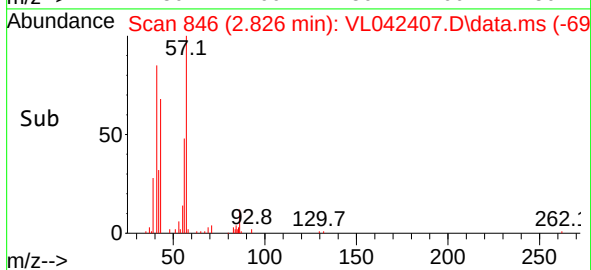
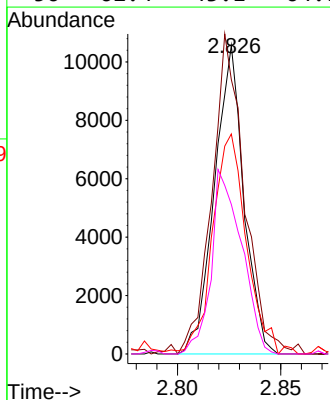
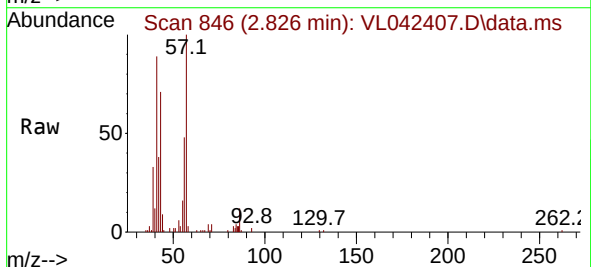
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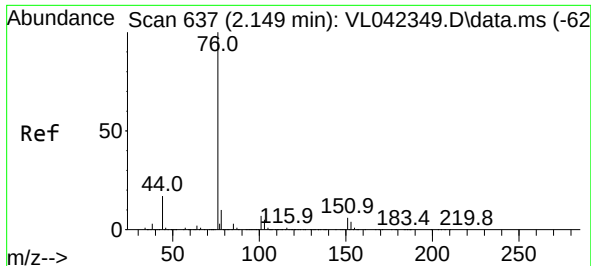
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#26
Hexane
Concen: 0.520 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

Tgt Ion: 57	Resp: 10426
Ion Ratio	Lower Upper
57 100	
41 114.2	77.9 116.9
43 85.0	208.4 312.6#
56 62.4	43.1 64.7





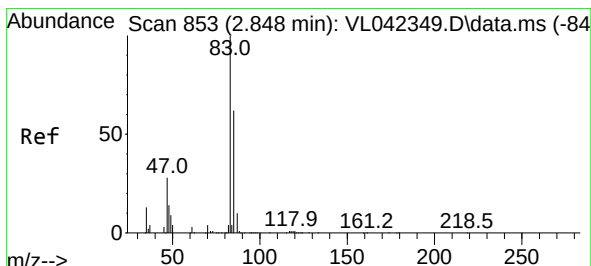
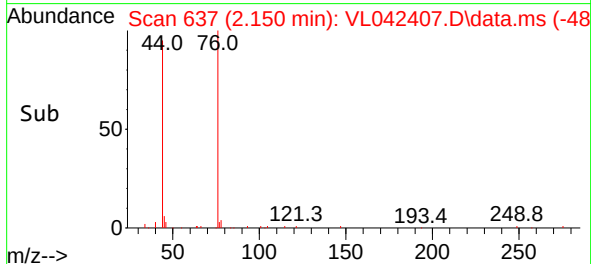
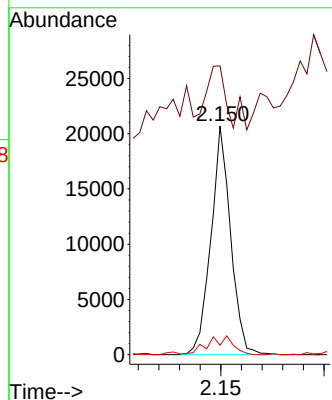
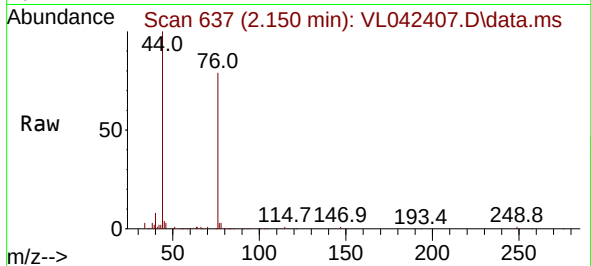
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Carbon Disulfide
Concen: 0.639 ppbv
RT: 2.150 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 76 Resp: 13711
Ion Ratio Lower Upper
76 100
44 621.4 15.5 23.3
78 11.2 9.3 13.9

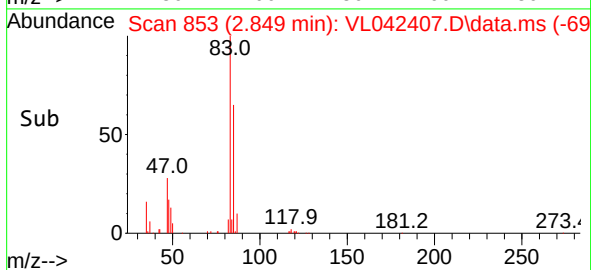
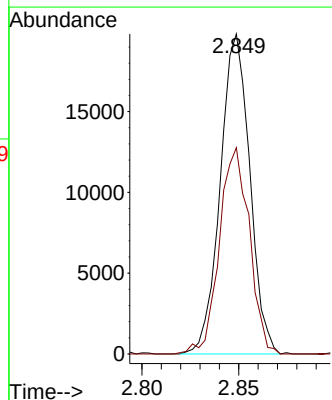
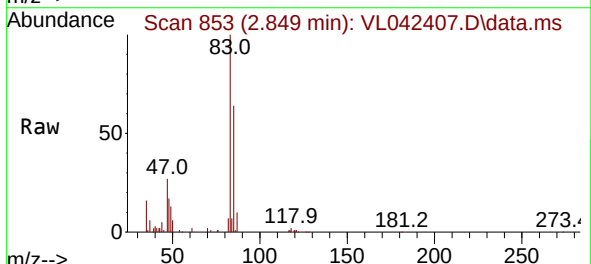
Manual Integrations
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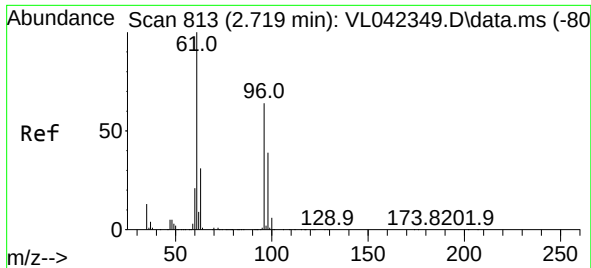
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#29
Chloroform
Concen: 0.741 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.000 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

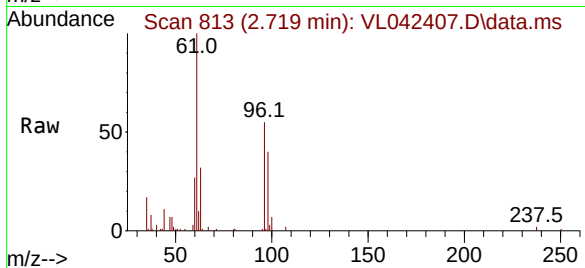
Tgt Ion: 83 Resp: 20993
Ion Ratio Lower Upper
83 100
85 64.4 50.0 75.0





#31
 cis-1,2-Dichloroethene
 Concen: 0.483 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042407.D
 Acq: 21 Apr 2025 16:20

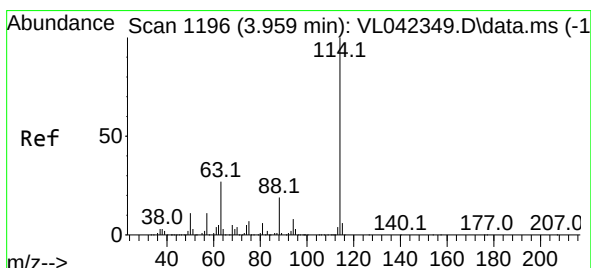
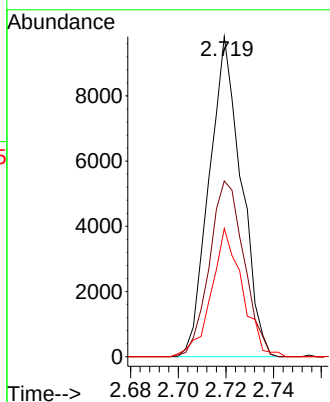
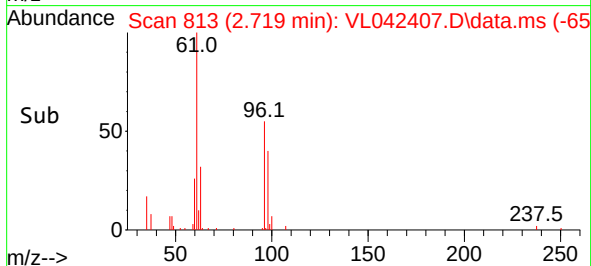
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



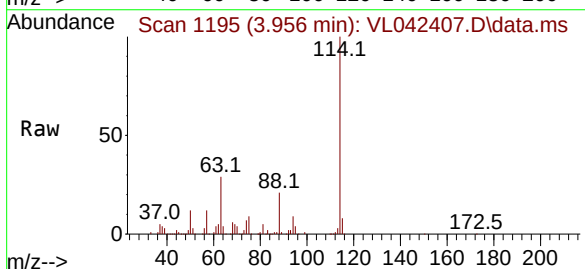
Tgt Ion: 61 Resp: 9200
 Ion Ratio Lower Upper
 61 100
 96 54.9 50.8 76.2
 98 39.1 30.9 46.3

Manual Integrations
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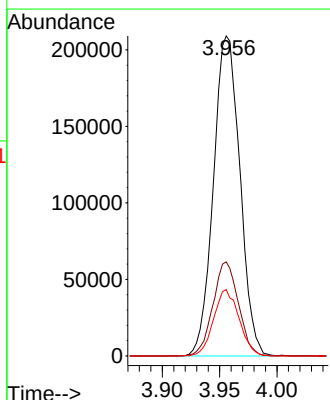
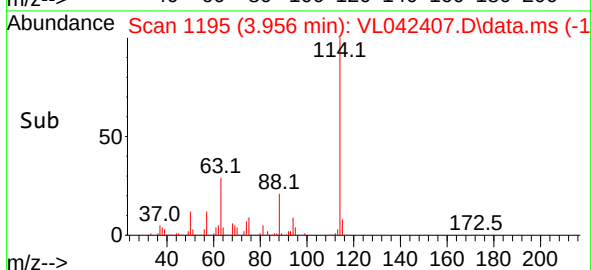
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 Supervised By :Mahesh Dadoda 04/22/2025

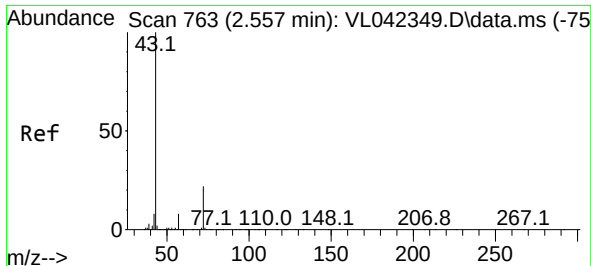


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.956 min Scan# 1195
 Delta R.T. -0.003 min
 Lab File: VL042407.D
 Acq: 21 Apr 2025 16:20



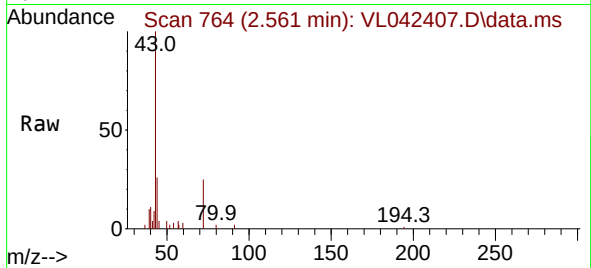
Tgt Ion:114 Resp: 335724
 Ion Ratio Lower Upper
 114 100
 63 28.3 21.8 32.6
 88 19.9 15.5 23.3





#34
2-Butanone
Concen: 0.193 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.004 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

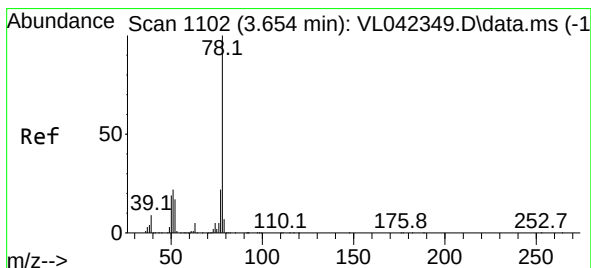
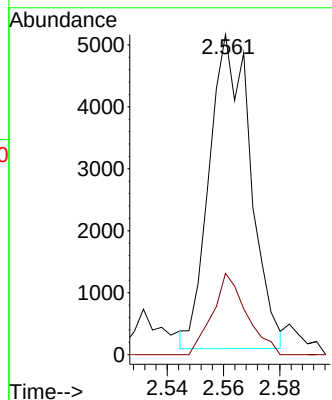
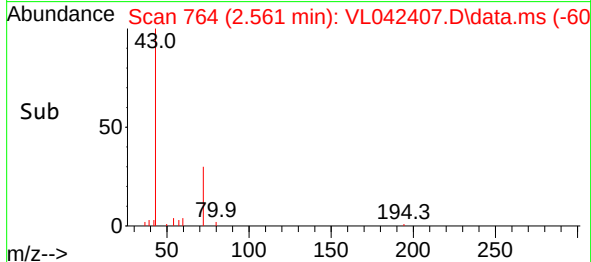
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 5134
Ion Ratio Lower Upper
43 100
72 21.4 18.2 27.2

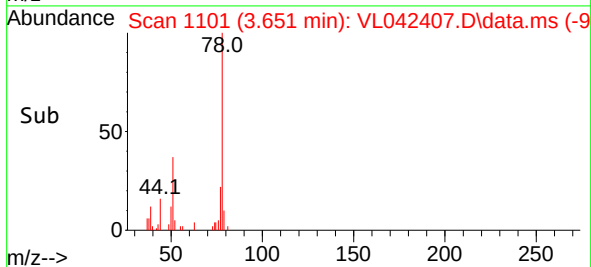
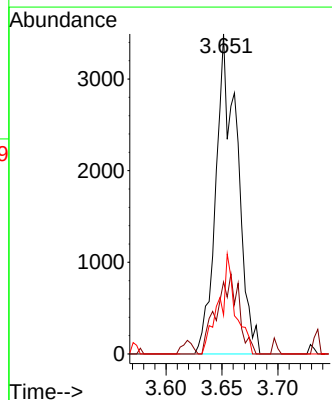
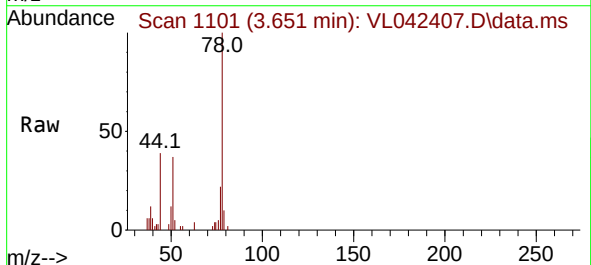
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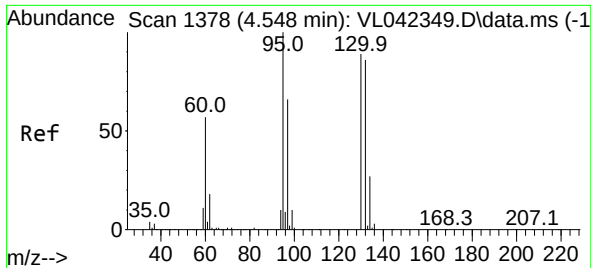
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#36
Benzene
Concen: 0.129 ppbv m
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

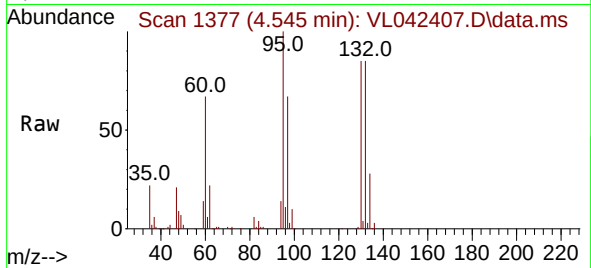
Tgt Ion: 78 Resp: 4655
Ion Ratio Lower Upper
78 100
77 22.5 17.4 26.0
50 12.2 15.5 23.3#





#38
 Trichloroethene
 Concen: 6.167 ppbv
 RT: 4.545 min Scan# 11
 Delta R.T. -0.003 min
 Lab File: VL042407.D
 Acq: 21 Apr 2025 16:20

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

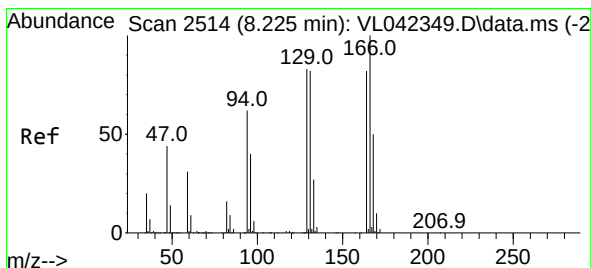
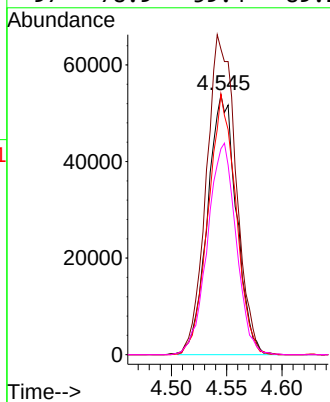
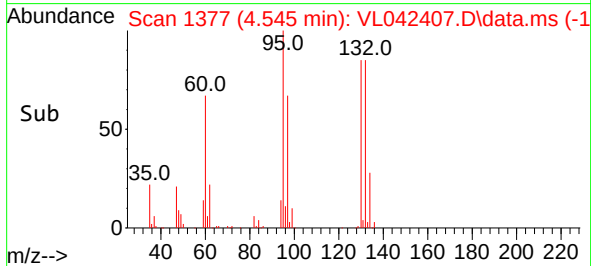


Tgt Ion:130 Resp: 97602

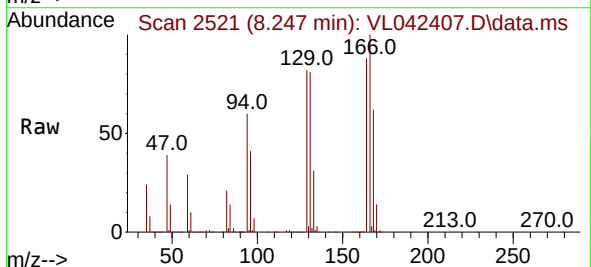
Ion	Ratio	Lower	Upper
130	100		
95	117.4	89.8	134.6
132	100.3	77.7	116.5
97	78.9	59.4	89.2

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Reviewed By :Semsettin Yesilyurt 04/22/2025
 Supervised By :Mahesh Dadoda 04/22/2025

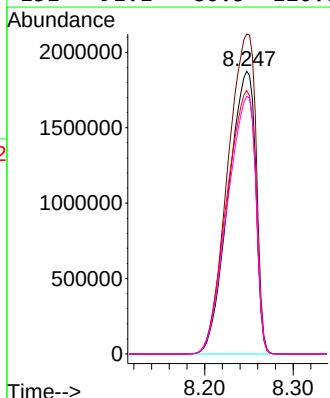
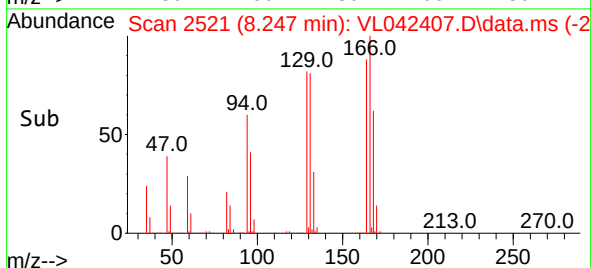


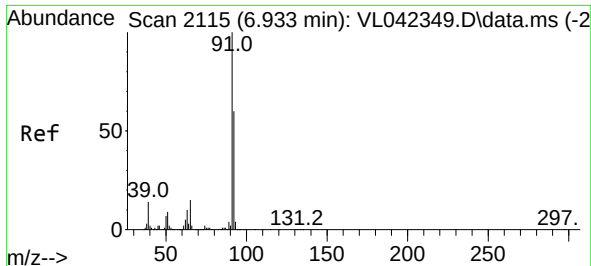
#52
 Tetrachloroethene
 Concen: 284.725 ppbv
 RT: 8.247 min Scan# 2521
 Delta R.T. 0.023 min
 Lab File: VL042407.D
 Acq: 21 Apr 2025 16:20



Tgt Ion:164 Resp: 3985113

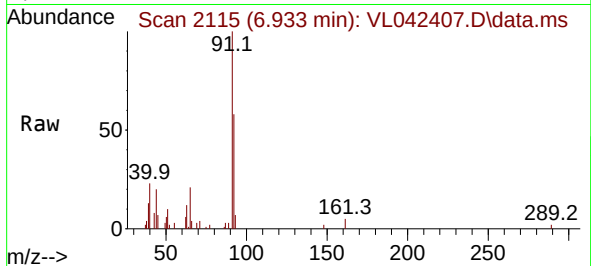
Ion	Ratio	Lower	Upper
164	100		
166	113.2	98.2	147.2
129	93.2	81.8	122.8
131	91.1	80.5	120.7





#53
Toluene
Concen: 0.221 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

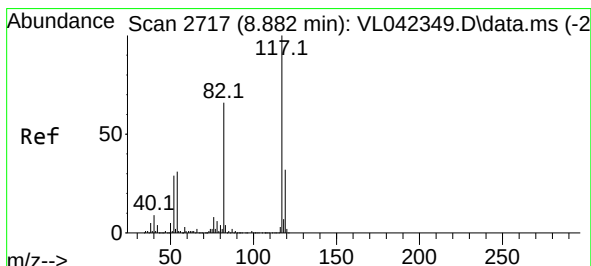
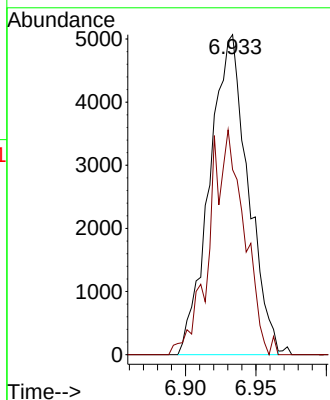
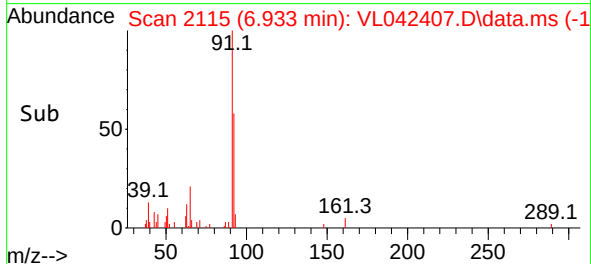
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 91 Resp: 962
Ion Ratio Lower Upper
91 100
92 63.9 48.2 72.4

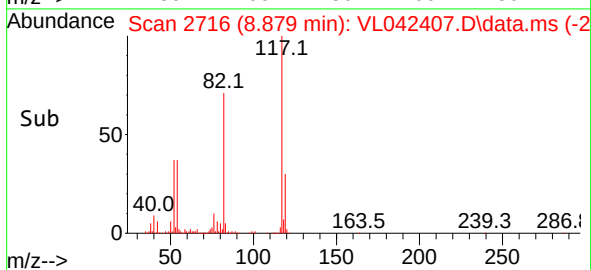
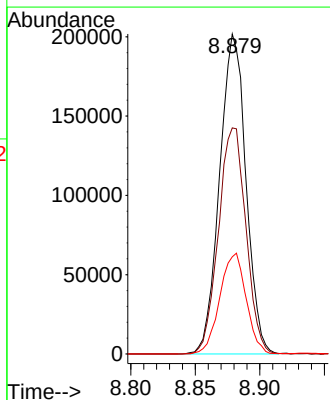
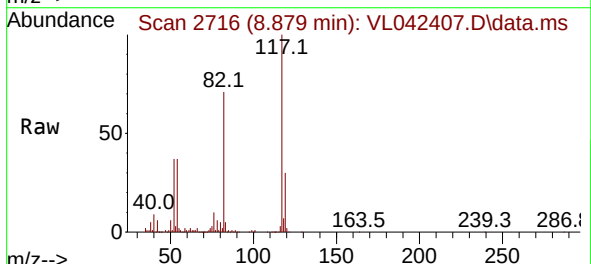
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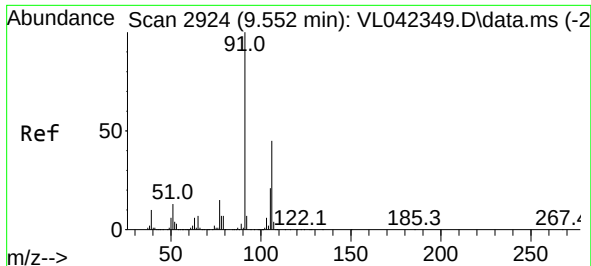
Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

Tgt Ion:117 Resp: 286487
Ion Ratio Lower Upper
117 100
82 73.6 57.8 86.6
119 31.6 25.2 37.8





#59

m/p-Xylene

Concen: 0.188 ppbv m

RT: 9.526 min Scan# 2916

Delta R.T. -0.026 min

Lab File: VL042407.D

Acq: 21 Apr 2025 16:20

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 8608

Ion Ratio Lower Upper

91 100

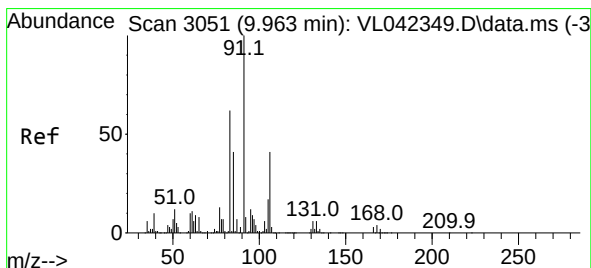
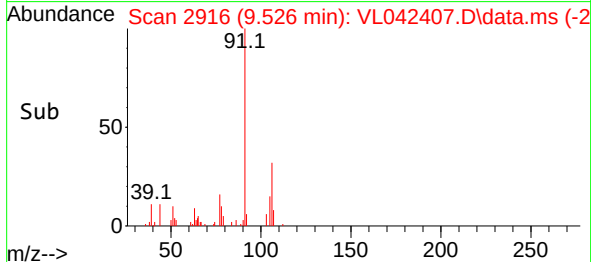
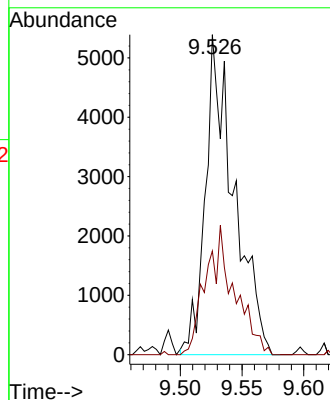
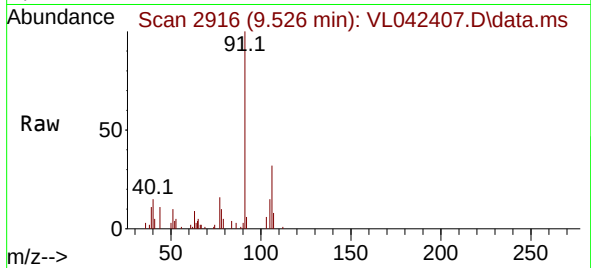
106 0.0 35.4 53.2

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Reviewed By :Semsettin Yesilyurt 04/22/2025

Supervised By :Mahesh Dadoda 04/22/2025



#60

o-Xylene

Concen: 0.105 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042407.D

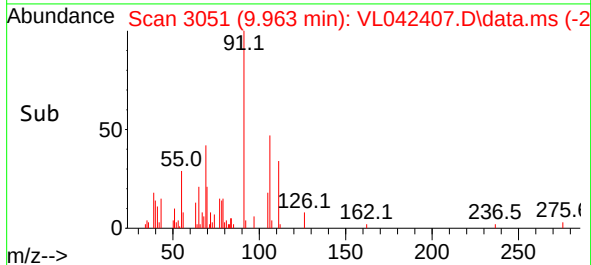
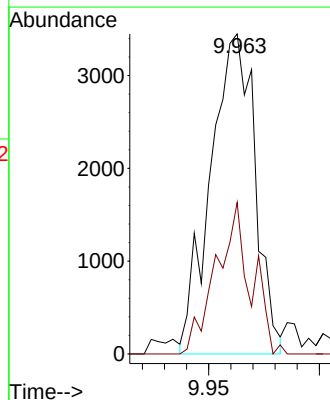
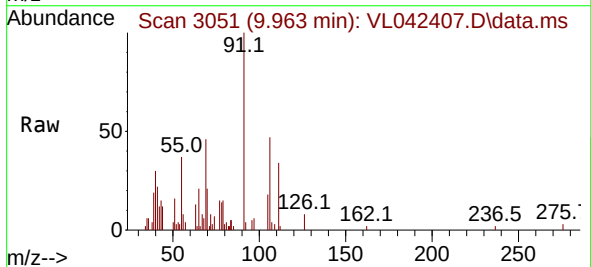
Acq: 21 Apr 2025 16:20

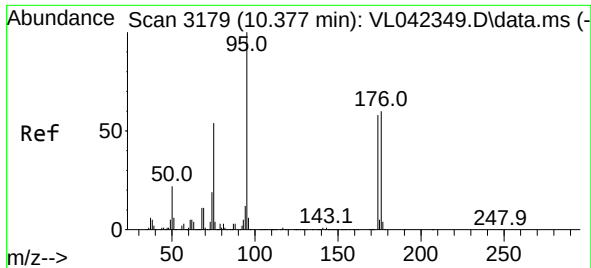
Tgt Ion: 91 Resp: 4818

Ion Ratio Lower Upper

91 100

106 37.0 21.1 63.4





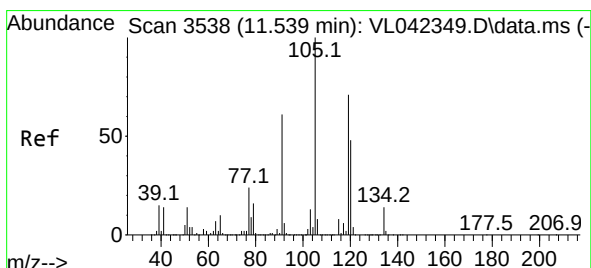
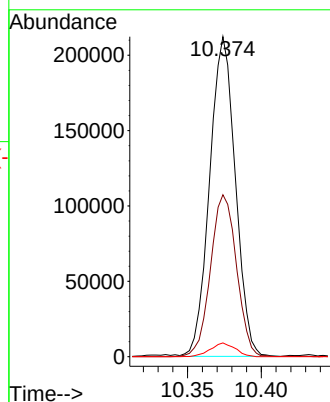
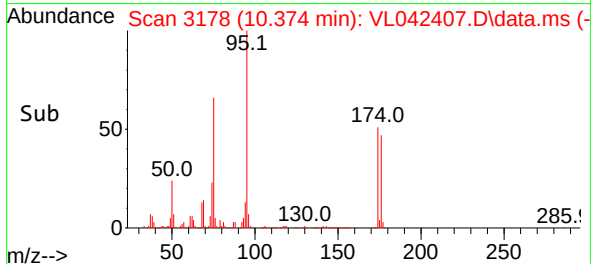
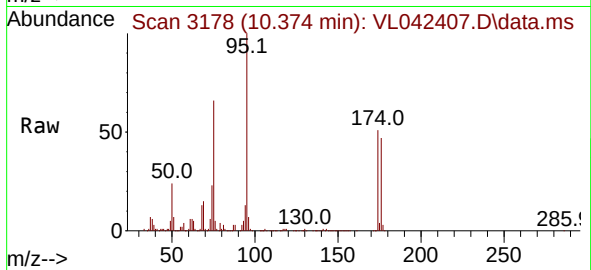
#68
1-Bromo-4-Fluorobenzene
Concen: 10.918 ppbv
RT: 10.374 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 257025
Ion Ratio Lower Upper
95 100
174 51.3 48.5 72.7
175 4.1 3.7 5.5

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Reviewed By :Semsettin Yesilyurt 04/22/2025
Supervised By :Mahesh Dadoda 04/22/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.139 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042407.D
Acq: 21 Apr 2025 16:20

Tgt Ion:105 Resp: 8060
Ion Ratio Lower Upper
105 100
120 40.4 38.1 57.1
91 10.0 48.8 73.2#
77 21.2 19.0 28.4

