

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042135.D
 Acq On : 10 Mar 2025 20:35
 Operator : SY/MD
 Sample : Q1533-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
 Supervised By :Mahesh Dadoda 03/11/2025

Quant Time: Mar 11 01:30:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	156004	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	363367	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	361132	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 291547 10.494 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	2726	0.168	ppbv	96
9) Propene	1.489	41	15176	1.643	ppbv	87
10) Heptane	5.007	43	11678m	0.406	ppbv	
13) Ethanol	1.725	45	15196	25.916	ppbv	100
15) Acetone	1.842	43	283161	20.553	ppbv	97
17) tert-Butyl alcohol	2.049	59	6767	0.393	ppbv #	90
20) Methylene Chloride	2.068	84	2081	0.399	ppbv #	92
26) Hexane	2.836	57	56304	2.526	ppbv #	32
27) Carbon Disulfide	2.156	76	12486	0.826	ppbv #	50
34) 2-Butanone	2.570	43	31746	1.121	ppbv	99
36) Benzene	3.674	78	6330	0.166	ppbv #	90
38) Trichloroethene	4.570	130	1341m	0.086	ppbv	
41) Tetrahydrofuran	3.075	42	7030	0.420	ppbv #	88
44) 2,2,4-Trimethylpentane	4.658	57	18556m	0.276	ppbv	
52) Tetrachloroethene	8.244	164	65181	5.005	ppbv	93
53) Toluene	6.956	91	56731	1.334	ppbv	99
58) Ethyl Benzene	9.370	91	17744	0.267	ppbv	93
59) m/p-Xylene	9.545	91	40168	0.759	ppbv #	100
60) o-Xylene	9.979	91	27711	0.521	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	26398m	0.416	ppbv	

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

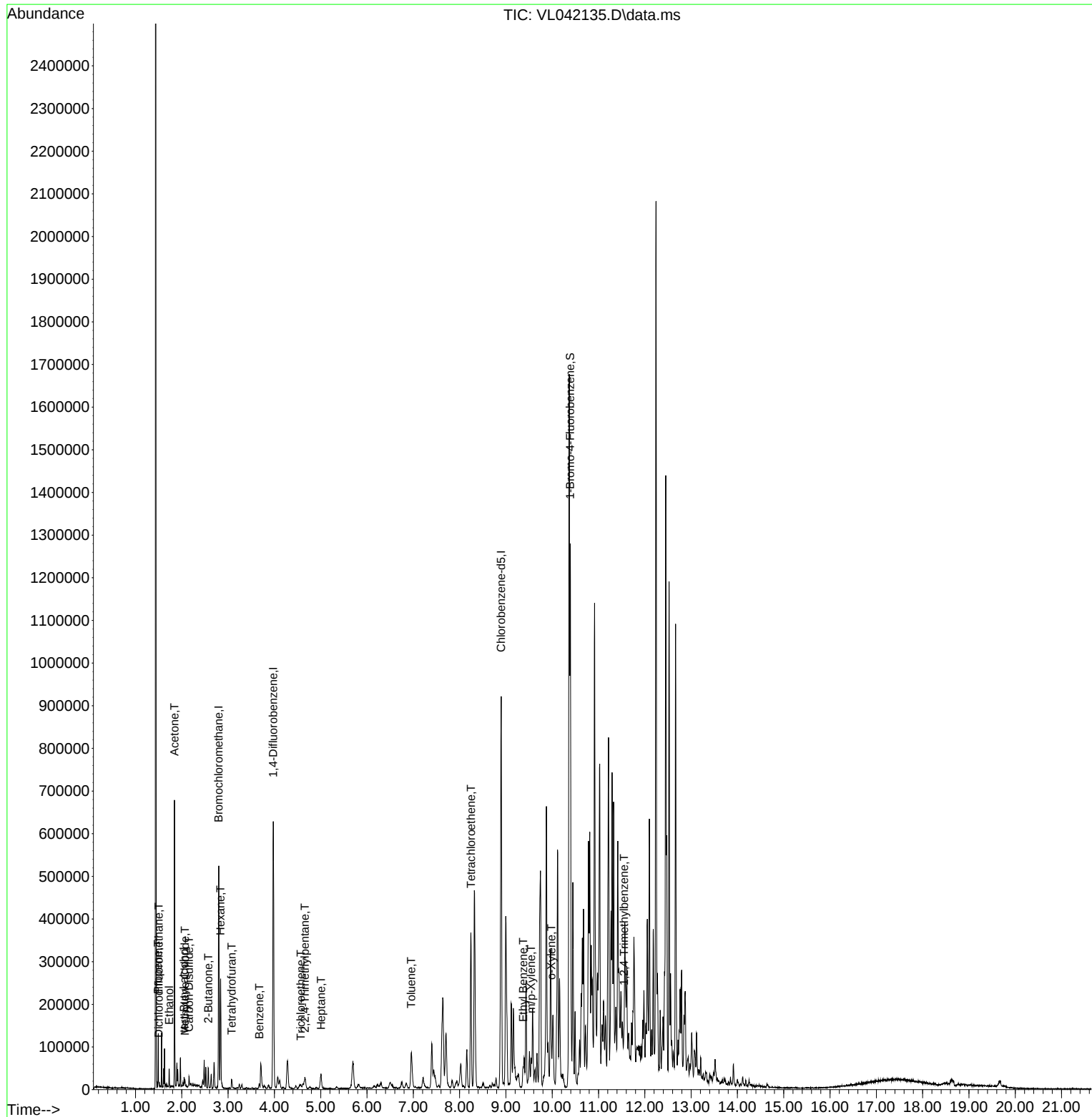
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042135.D
Acq On : 10 Mar 2025 20:35
Operator : SY/MD
Sample : Q1533-01 4X
Misc : 400mL/MSVOA_L
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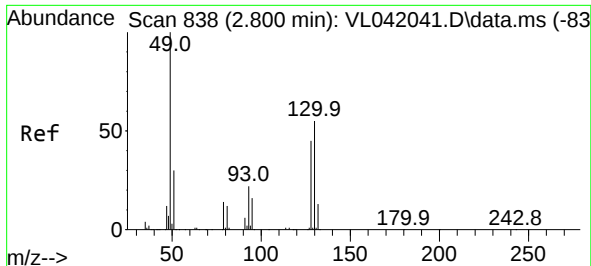
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Mar 11 01:30:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
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Supervised By : Mahesh Dadoda 03/11/2025





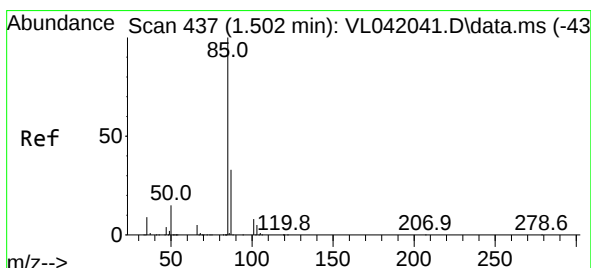
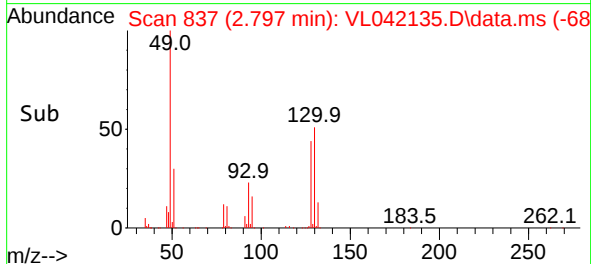
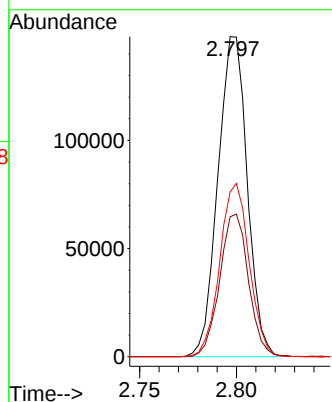
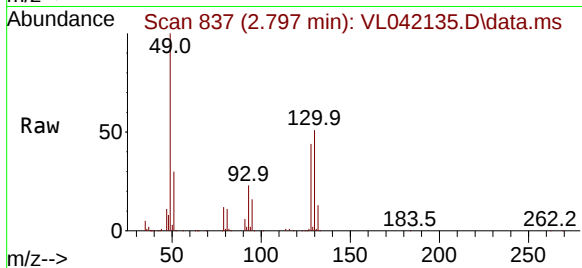
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 156004
Ion Ratio Lower Upper
49 100
128 43.7 21.6 64.8
130 54.4 27.8 83.4

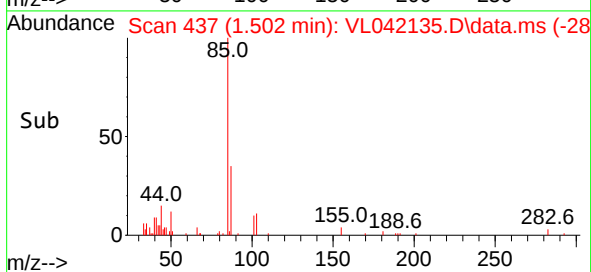
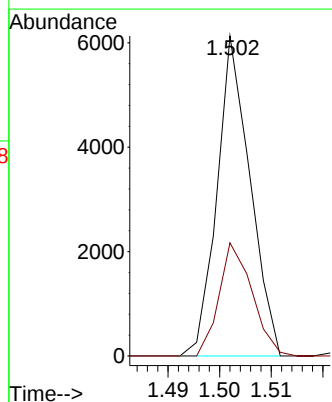
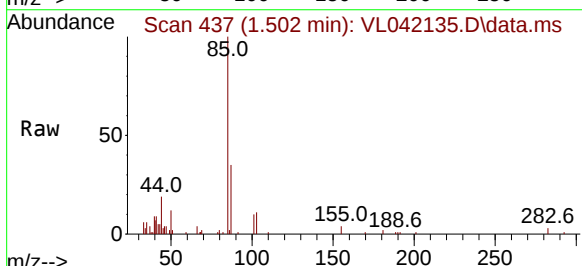
Manual Integrations
APPROVED

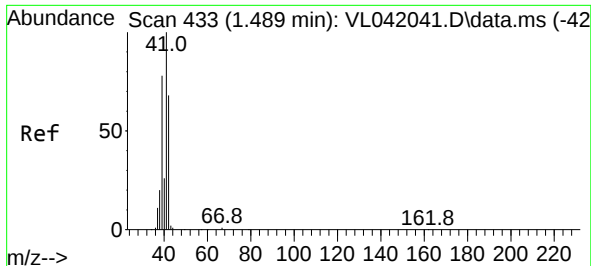
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025



#2
Dichlorodifluoromethane
Concen: 0.168 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

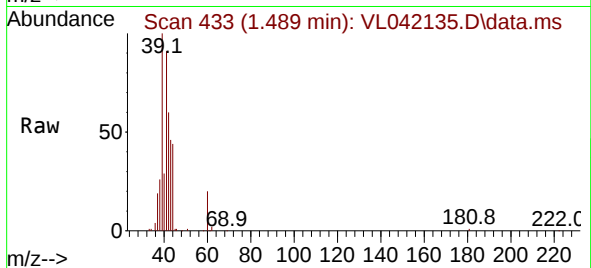
Tgt Ion: 85 Resp: 2726
Ion Ratio Lower Upper
85 100
87 35.4 26.4 39.6





#9
 Propene
 Concen: 1.643 ppbv
 RT: 1.489 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042135.D
 Acq: 10 Mar 2025 20:35

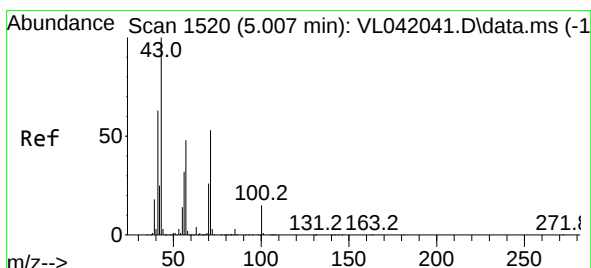
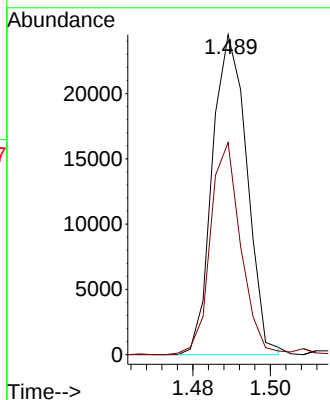
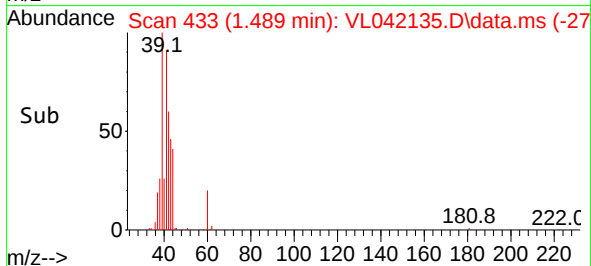
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



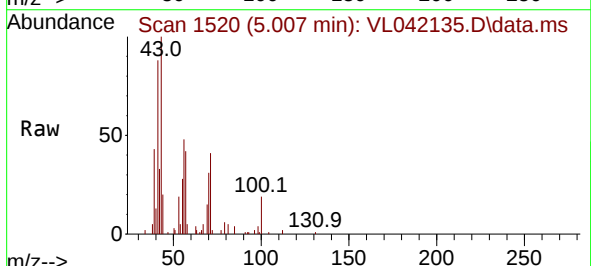
Tgt Ion: 41 Resp: 15170
 Ion Ratio Lower Upper
 41 100
 42 59.5 55.8 83.6

Manual Integrations
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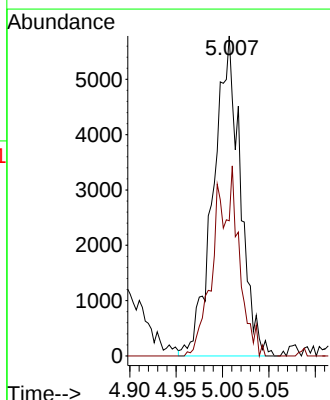
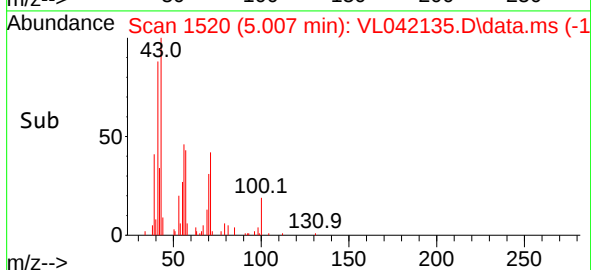
Reviewed By :Semsettin Yesilyurt 03/11/2025
 Supervised By :Mahesh Dadoda 03/11/2025

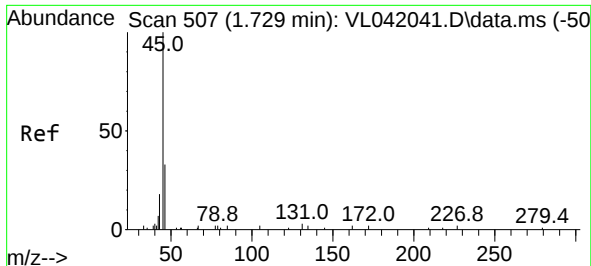


#10
 Heptane
 Concen: 0.406 ppbv m
 RT: 5.007 min Scan# 1520
 Delta R.T. -0.000 min
 Lab File: VL042135.D
 Acq: 10 Mar 2025 20:35



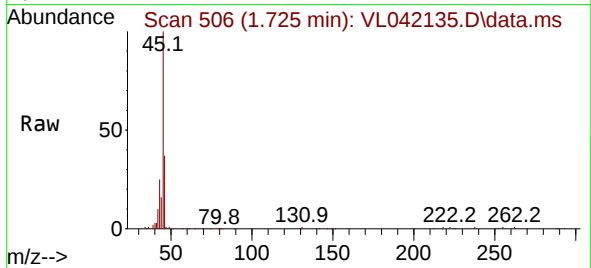
Tgt Ion: 43 Resp: 11678
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.0#





#13
Ethanol
Concen: 25.916 ppbv
RT: 1.725 min Scan# 507
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

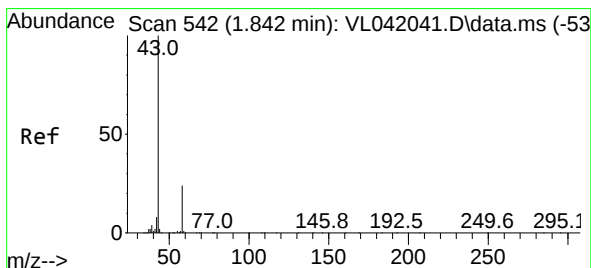
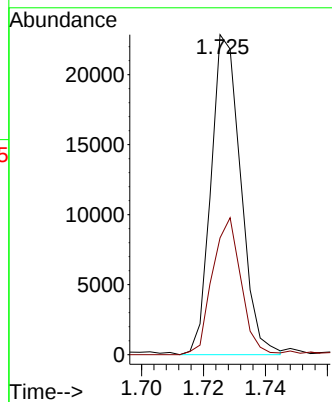
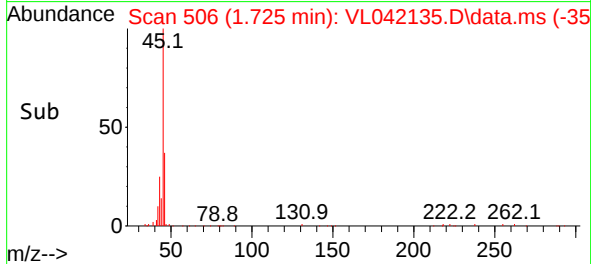
Instrument :
MSVOA_L
ClientSampleId :
SV1



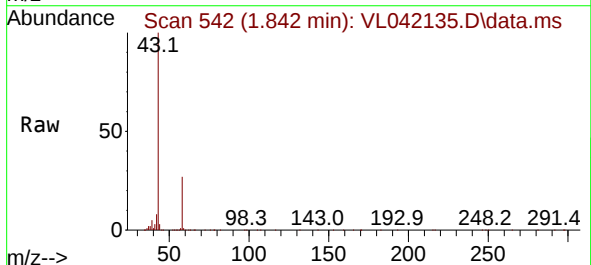
Tgt Ion: 45 Resp: 15190
Ion Ratio Lower Upper
45 100
46 42.9 17.1 68.3

Manual Integrations
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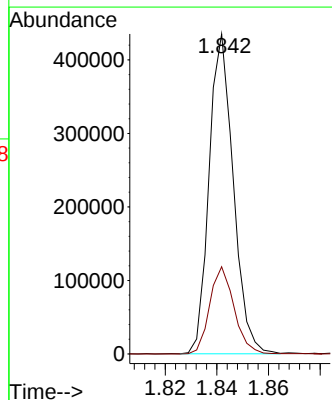
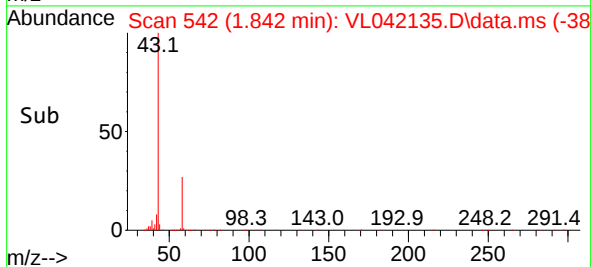
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

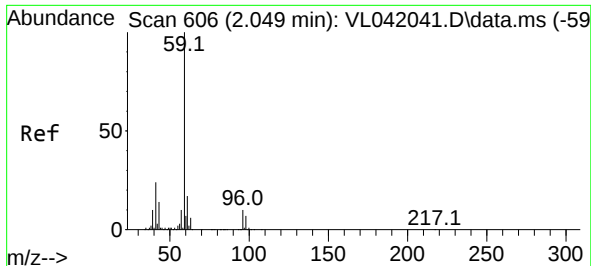


#15
Acetone
Concen: 20.553 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35



Tgt Ion: 43 Resp: 283161
Ion Ratio Lower Upper
43 100
58 27.6 20.7 31.1





#17

tert-Butyl alcohol

Concen: 0.393 ppbv

RT: 2.049 min Scan# 606

Delta R.T. -0.000 min

Lab File: VL042135.D

Acq: 10 Mar 2025 20:35

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 59 Resp: 676

Ion Ratio Lower Upper

59 100

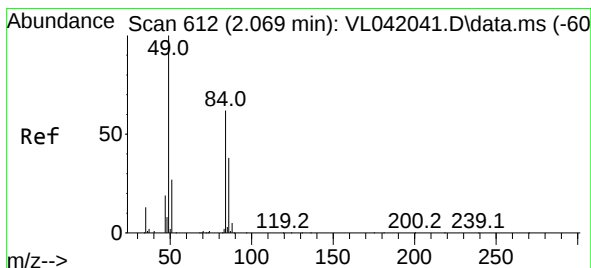
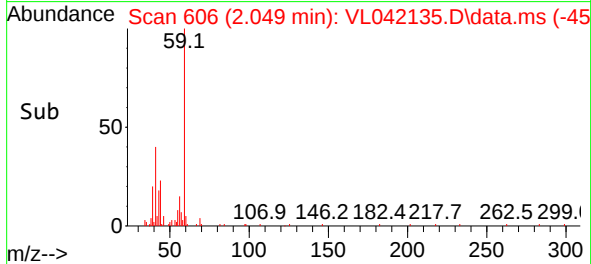
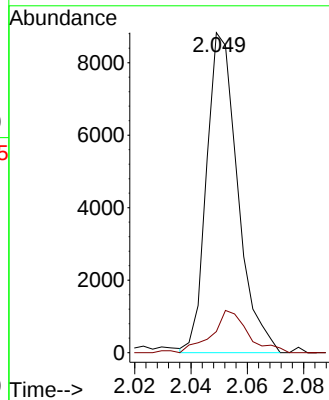
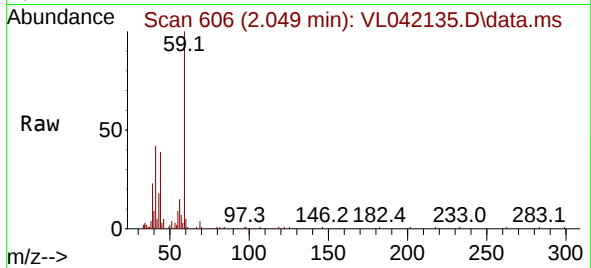
57 15.3 9.3 13.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025

Supervised By :Mahesh Dadoda 03/11/2025



#20

Methylene Chloride

Concen: 0.399 ppbv

RT: 2.068 min Scan# 612

Delta R.T. -0.000 min

Lab File: VL042135.D

Acq: 10 Mar 2025 20:35

Tgt Ion: 84 Resp: 2081

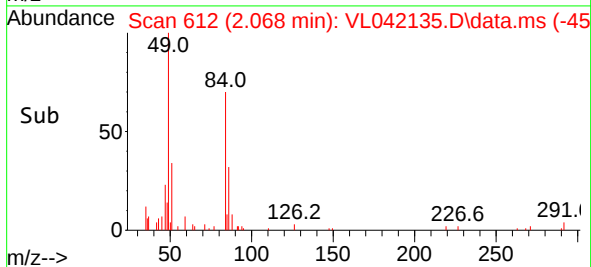
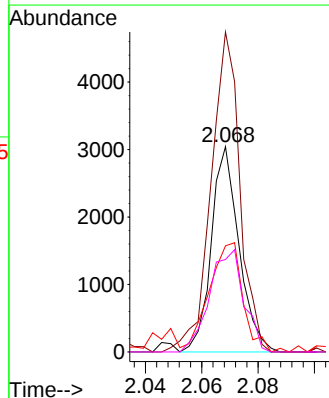
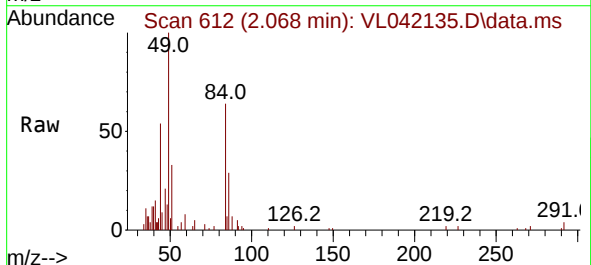
Ion Ratio Lower Upper

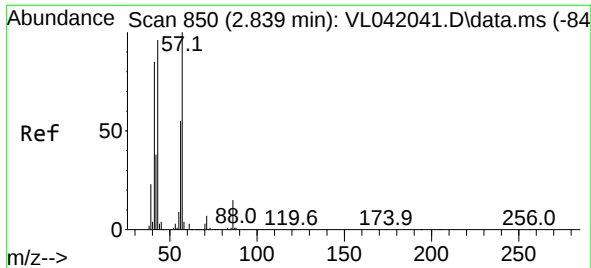
84 100

49 155.9 130.0 195.0

51 49.9 37.4 56.0

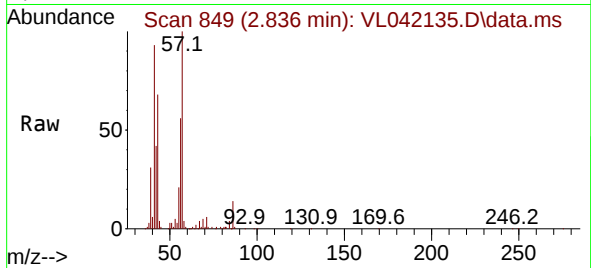
86 45.1 48.6 72.8





#26
Hexane
Concen: 2.526 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

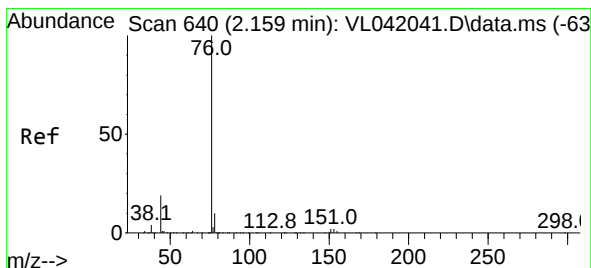
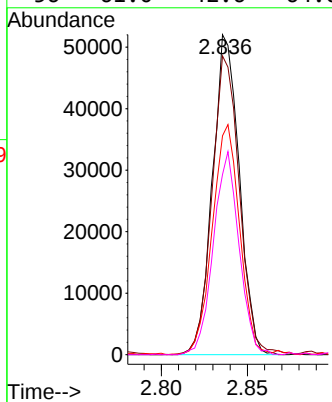
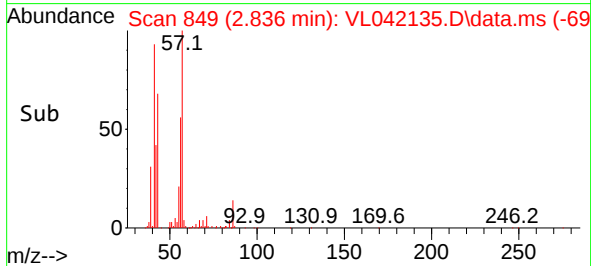
Instrument : MSVOA_L
ClientSampleId : SV1



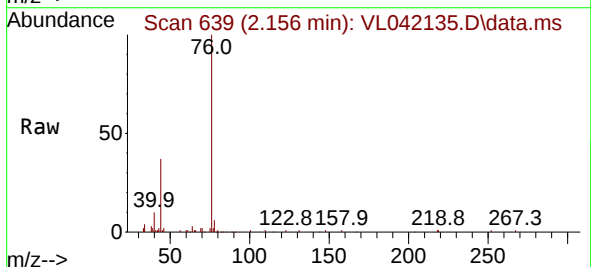
Tgt Ion: 57 Resp: 56304
Ion Ratio Lower Upper
57 100
41 96.1 70.6 106.0
43 73.9 199.4 299.0
56 61.0 42.6 64.0

Manual Integrations
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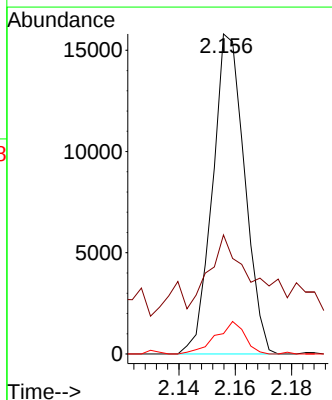
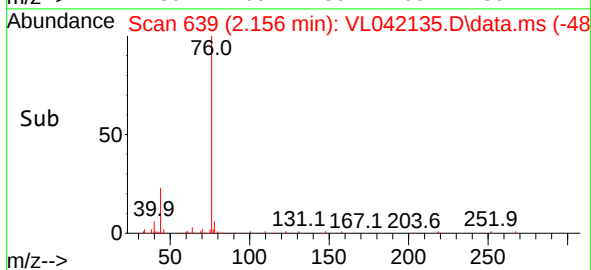
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

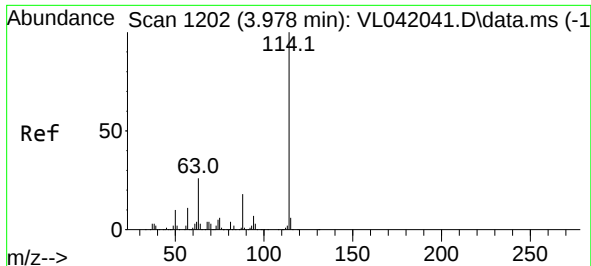


#27
Carbon Disulfide
Concen: 0.826 ppbv
RT: 2.156 min Scan# 639
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35



Tgt Ion: 76 Resp: 12486
Ion Ratio Lower Upper
76 100
44 55.0 16.2 24.2
78 9.7 9.4 14.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 114

Delta R.T. -0.003 min

Lab File: VL042135.D

Acq: 10 Mar 2025 20:35

Instrument :

MSVOA_L

ClientSampleId :

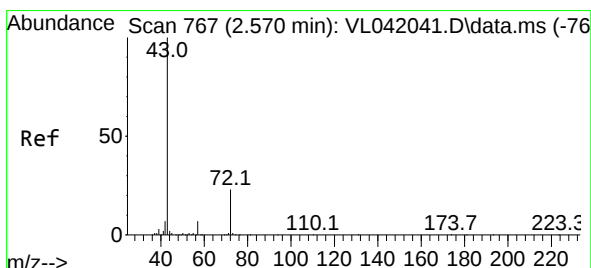
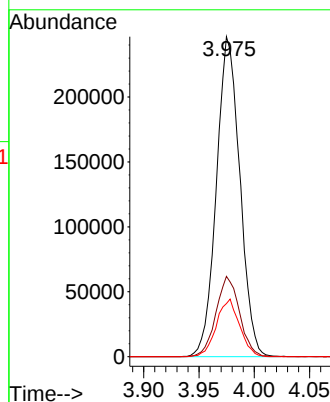
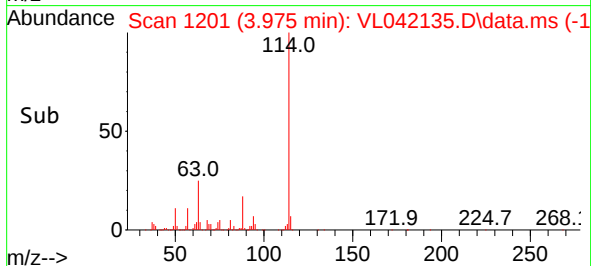
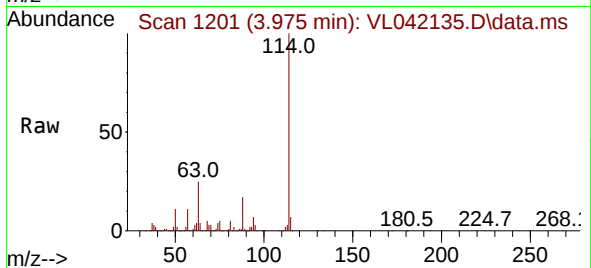
SV1

Tgt Ion:114 Resp: 36336
 Ion Ratio Lower Upper
 114 100
 63 25.3 20.1 30.1
 88 17.7 14.3 21.5

Manual Integrations

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 Supervised By :Mahesh Dadoda 03/11/2025



#34

2-Butanone

Concen: 1.121 ppbv

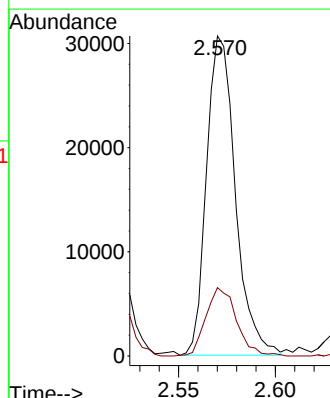
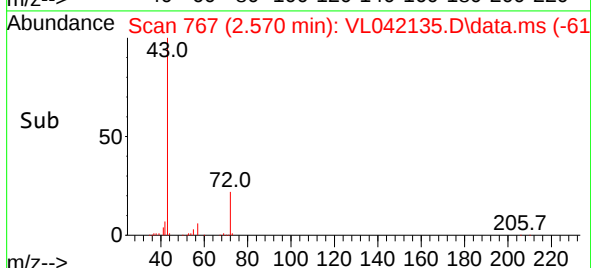
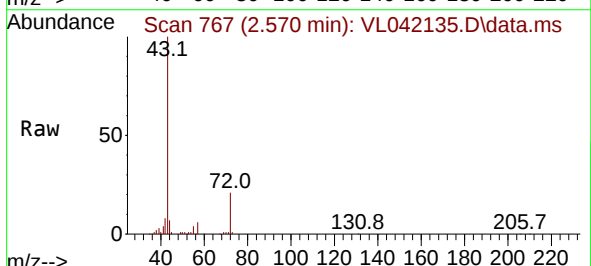
RT: 2.570 min Scan# 767

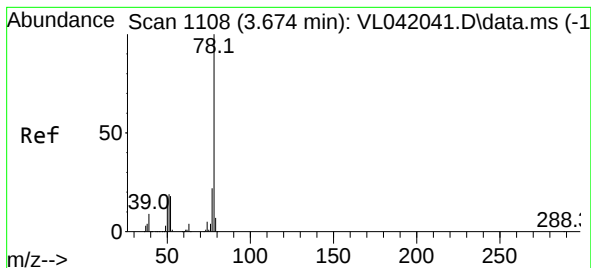
Delta R.T. -0.000 min

Lab File: VL042135.D

Acq: 10 Mar 2025 20:35

Tgt Ion: 43 Resp: 31746
 Ion Ratio Lower Upper
 43 100
 72 22.7 18.5 27.7





#36

Benzene

Concen: 0.166 ppbv

RT: 3.674 min Scan# 1108

Delta R.T. -0.000 min

Lab File: VL042135.D

Acq: 10 Mar 2025 20:35

Instrument :

MSVOA_L

ClientSampleId :

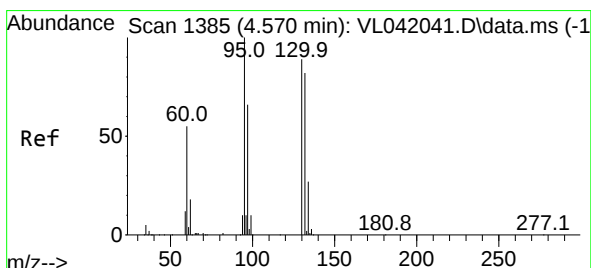
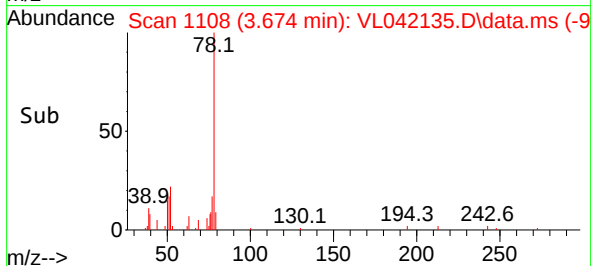
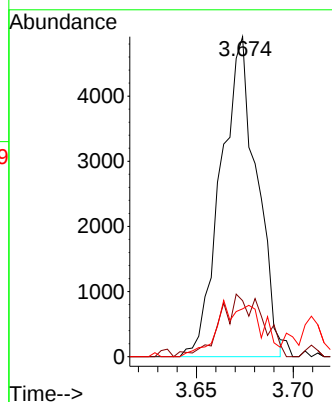
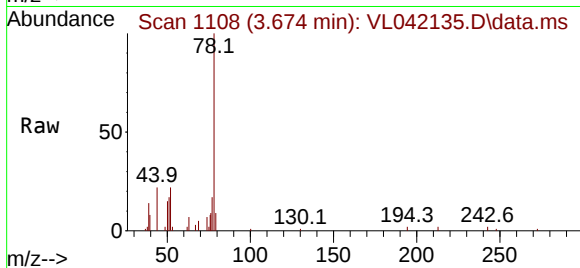
SV1

Tgt Ion: 78	Resp: 6330
Ion Ratio	Lower Upper
78 100	
77 15.9	17.7 26.5
50 14.9	13.9 20.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025



#38

Trichloroethene

Concen: 0.086 ppbv m

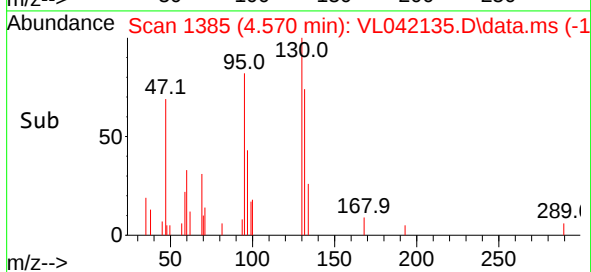
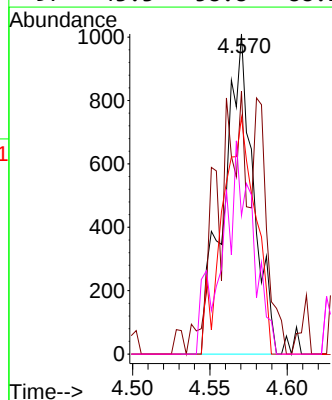
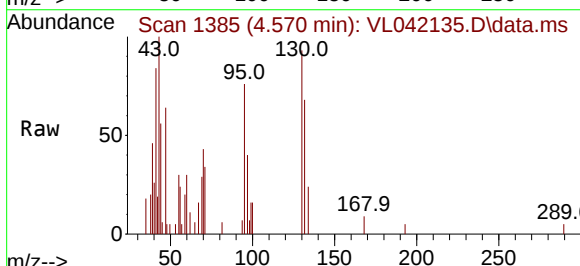
RT: 4.570 min Scan# 1385

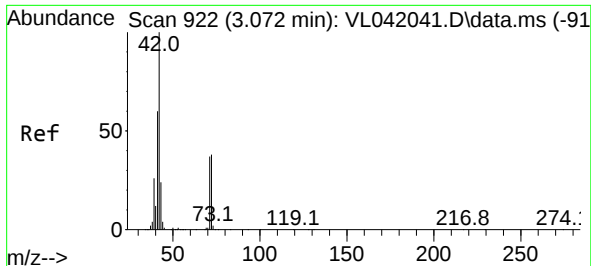
Delta R.T. -0.000 min

Lab File: VL042135.D

Acq: 10 Mar 2025 20:35

Tgt	Ion:130	Resp:	1341
Ion	Ratio	Lower	Upper
130	100		
95	82.2	89.5	134.3#
132	74.0	73.8	110.6
97	43.3	58.8	88.2#





#41

Tetrahydrofuran

Concen: 0.420 ppbv

RT: 3.075 min Scan# 91

Delta R.T. 0.003 min

Lab File: VL042135.D

Acq: 10 Mar 2025 20:35

Instrument :

MSVOA_L

ClientSampleId :

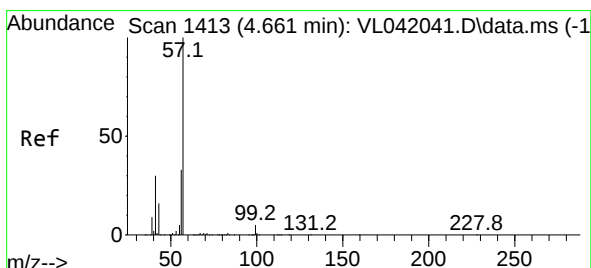
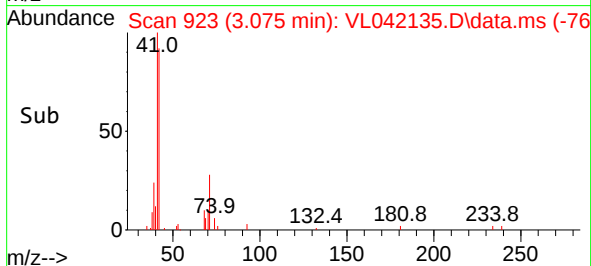
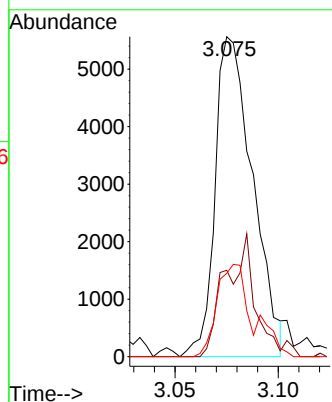
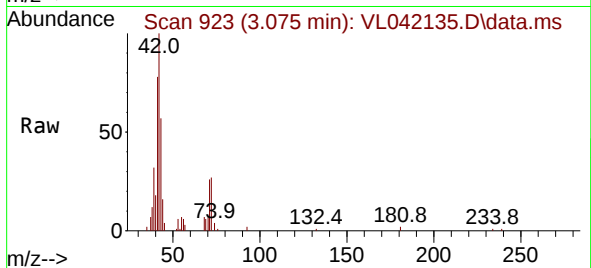
SV1

Tgt Ion:	42	Resp:	7030
Ion Ratio	Lower	Upper	
42	100		
72	31.4	30.2	45.2
71	27.6	28.2	42.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025



#44

2,2,4-Trimethylpentane

Concen: 0.276 ppbv m

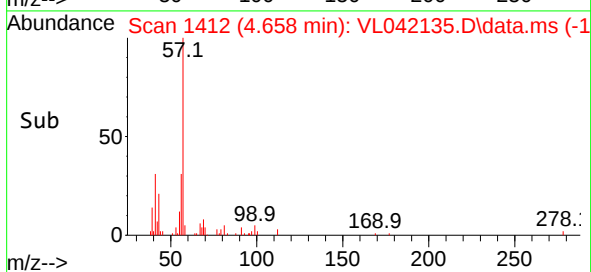
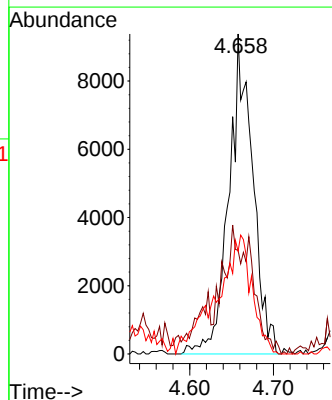
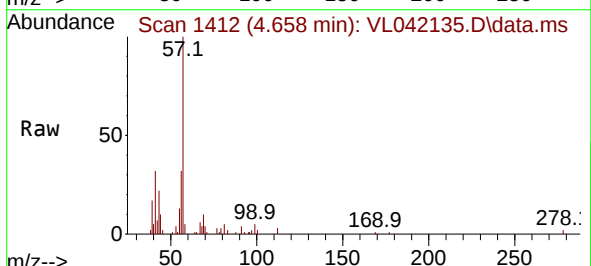
RT: 4.658 min Scan# 1412

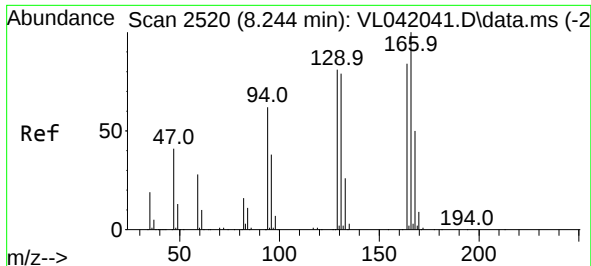
Delta R.T. -0.003 min

Lab File: VL042135.D

Acq: 10 Mar 2025 20:35

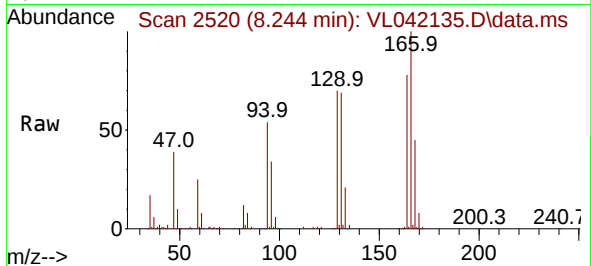
Tgt Ion:	57	Resp:	18556
Ion Ratio	Lower	Upper	
57	100		
41	59.1	24.4	36.6#
56	55.2	26.5	39.7#





#52
Tetrachloroethene
Concen: 5.005 ppbv
RT: 8.244 min Scan# 2121
Delta R.T. -0.000 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

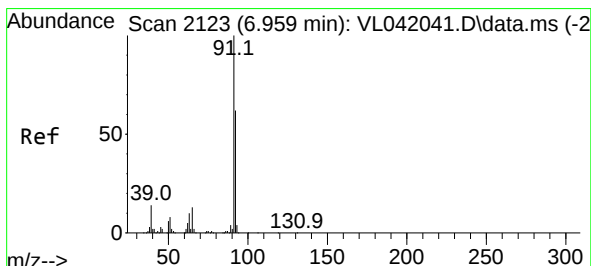
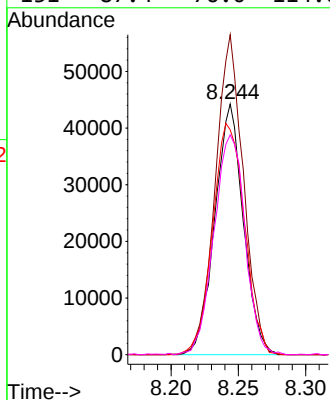
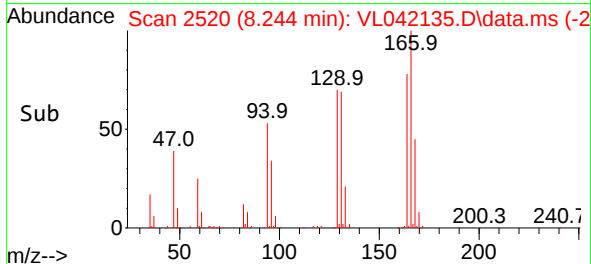
Instrument : MSVOA_L
ClientSampleId : SV1



Tgt Ion:164 Resp: 6518
Ion Ratio Lower Upper
164 100
166 127.6 95.7 143.5
129 89.6 77.1 115.7
131 87.4 76.0 114.0

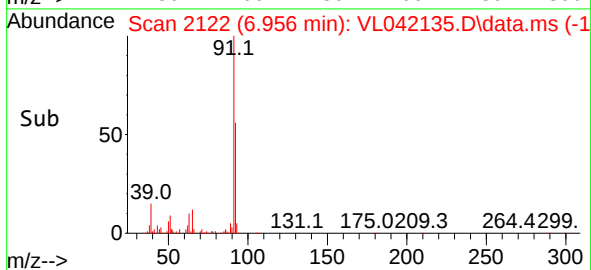
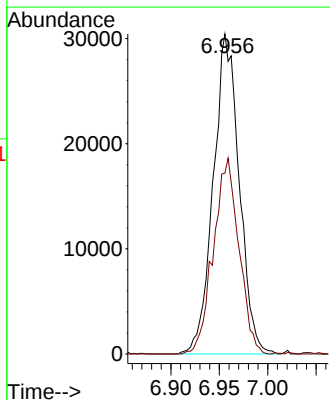
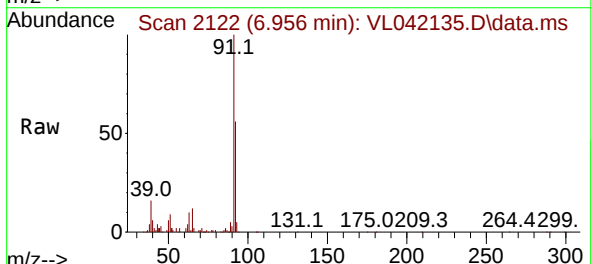
Manual Integrations
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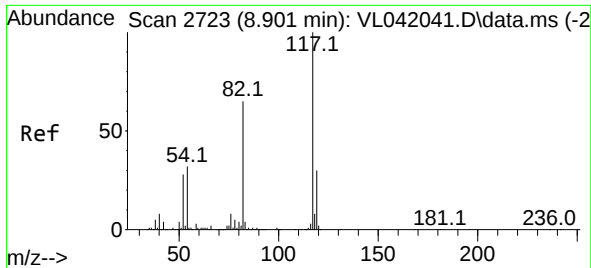
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025



#53
Toluene
Concen: 1.334 ppbv
RT: 6.956 min Scan# 2122
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

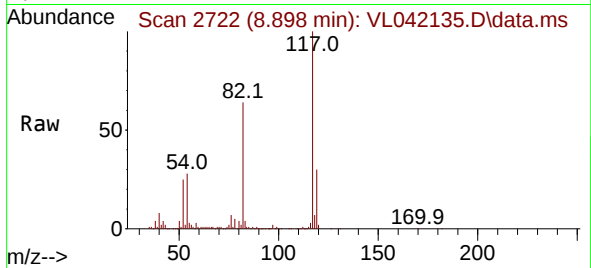
Tgt Ion: 91 Resp: 56731
Ion Ratio Lower Upper
91 100
92 60.5 49.0 73.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

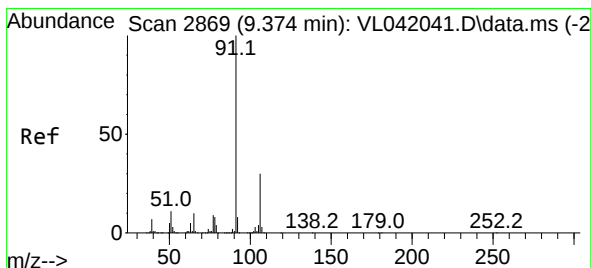
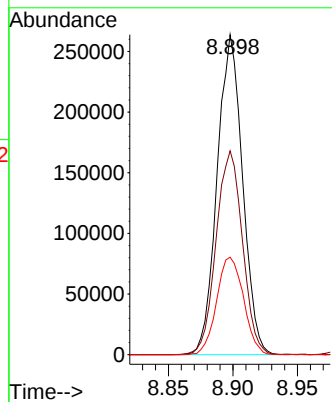
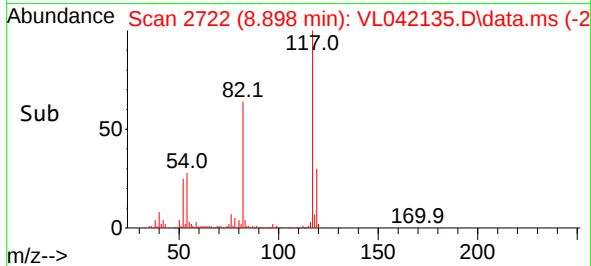
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:117 Resp: 361132
Ion Ratio Lower Upper
117 100
82 66.1 55.0 82.6
119 32.2 25.9 38.9

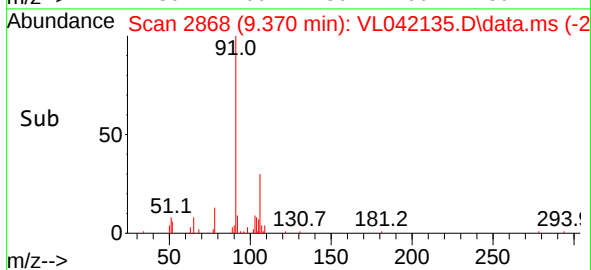
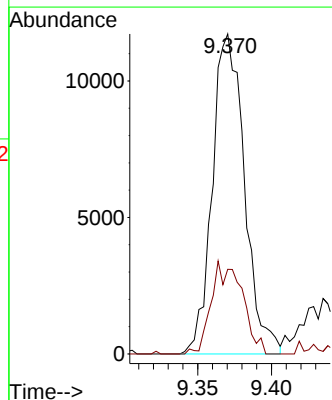
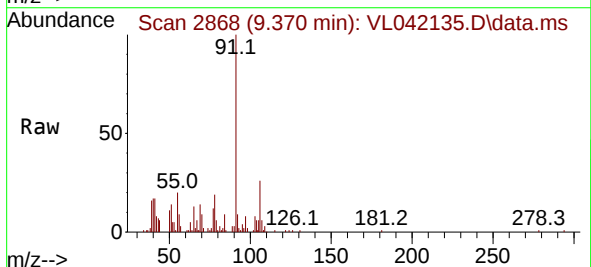
Manual Integrations
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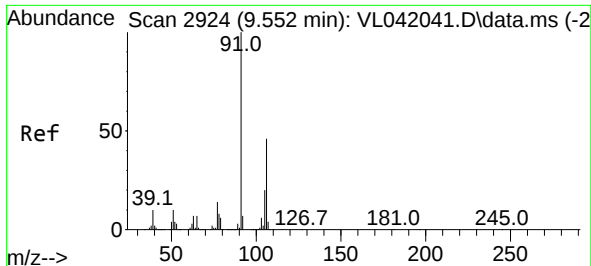
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025



#58
Ethyl Benzene
Concen: 0.267 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

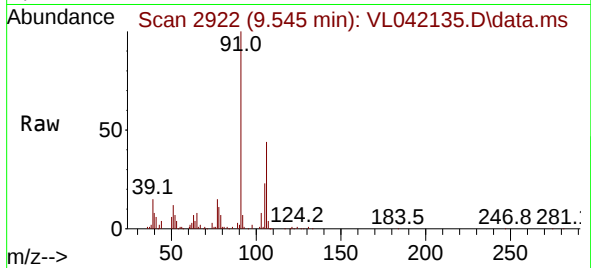
Tgt Ion: 91 Resp: 17744
Ion Ratio Lower Upper
91 100
106 26.5 24.2 36.2





#59
m/p-Xylene
Concen: 0.759 ppbv
RT: 9.545 min Scan# 2924
Delta R.T. -0.007 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

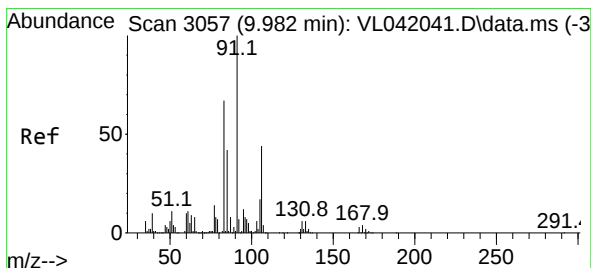
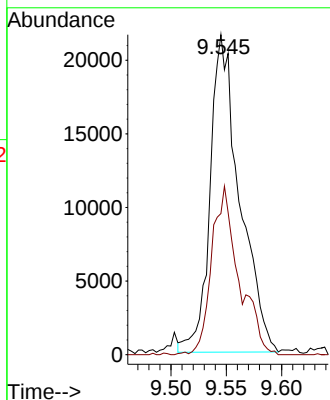
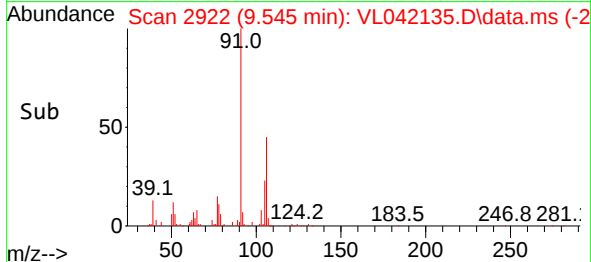
Instrument :
MSVOA_L
ClientSampleId :
SV1



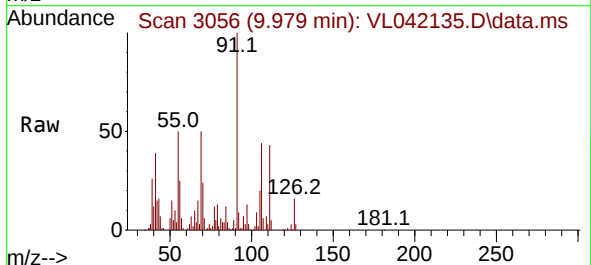
Tgt Ion: 91 Resp: 40168
Ion Ratio Lower Upper
91 100
106 48.9 0.0 0.0

Manual Integrations
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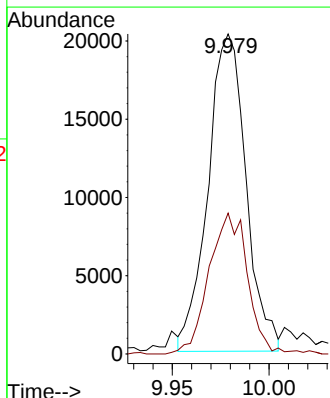
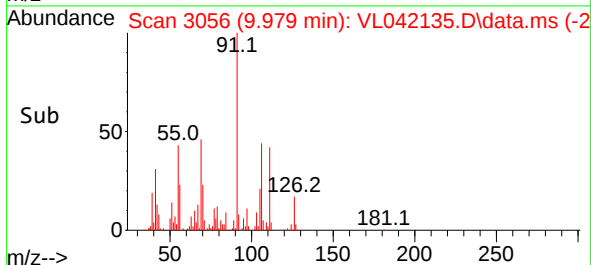
Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025

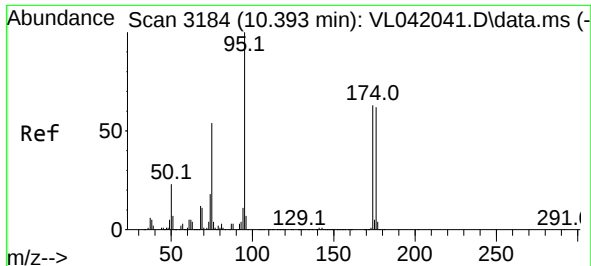


#60
o-Xylene
Concen: 0.521 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35



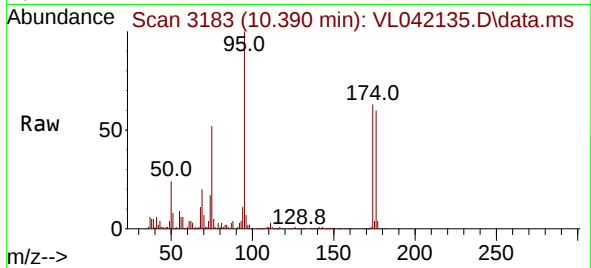
Tgt Ion: 91 Resp: 27711
Ion Ratio Lower Upper
91 100
106 45.6 22.3 66.8





#68
1-Bromo-4-Fluorobenzene
Concen: 10.494 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

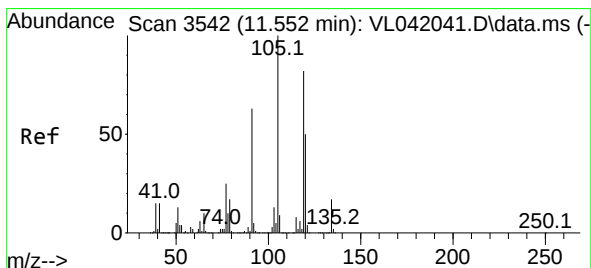
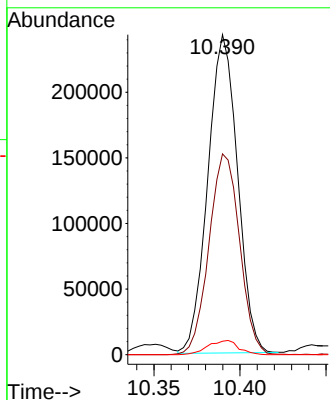
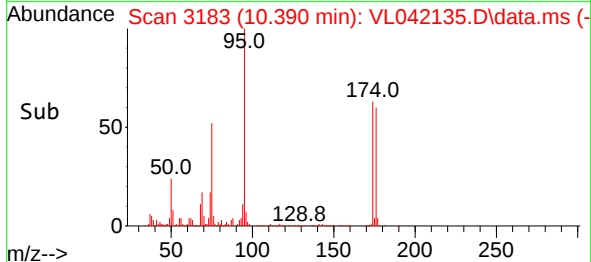
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 95 Resp: 29154
Ion Ratio Lower Upper
95 100
174 65.0 51.8 77.6
175 4.6 3.9 5.9

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/11/2025
Supervised By :Mahesh Dadoda 03/11/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.416 ppbv m
RT: 11.549 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

Tgt Ion:105 Resp: 26398
Ion Ratio Lower Upper
105 100
120 46.9 40.2 60.2
91 13.7 51.4 77.2#
77 15.2 20.1 30.1#

