

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042594.D
 Acq On : 29 May 2025 20:05
 Operator : SY/MD
 Sample : Q2124-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:13:40 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	109883	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	315583	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	284413	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	210817	9.888	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1779	0.132	ppbv #	88
10) Heptane	4.994	43	13912	0.659	ppbv	98
13) Ethanol	1.725	45	2596m	2.908	ppbv	
15) Acetone	1.842	43	27951	2.112	ppbv #	84
20) Methylene Chloride	2.072	84	1525	0.349	ppbv	83
26) Hexane	2.835	57	70521	4.285	ppbv #	41
27) Carbon Disulfide	2.156	76	20835	1.649	ppbv #	1
29) Chloroform	2.858	83	41250	1.927	ppbv	99
30) Cyclohexane	3.868	84	2359m	0.173	ppbv	
34) 2-Butanone	2.567	43	28702	1.275	ppbv	99
35) Carbon Tetrachloride	3.777	117	1545	0.074	ppbv #	89
41) Tetrahydrofuran	3.068	42	9145m	0.694	ppbv	
52) Tetrachloroethene	8.234	164	26326	2.267	ppbv	91
53) Toluene	6.946	91	54297	1.512	ppbv	98
58) Ethyl Benzene	9.364	91	33818	0.701	ppbv	89
59) m/p-Xylene	9.539	91	60849	1.603	ppbv	99
60) o-Xylene	9.972	91	30572	0.807	ppbv	100
62) Isopropylbenzene	10.548	105	14864	0.266	ppbv	99
67) sec-Butylbenzene	11.775	105	18180m	0.255	ppbv	
69) p-Isopropyltoluene	11.934	119	11768	0.197	ppbv	97
72) 4-Ethyltoluene	11.134	105	17745	0.376	ppbv #	52
74) 1,2,4-Trimethylbenzene	11.542	105	40578	0.936	ppbv #	66

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

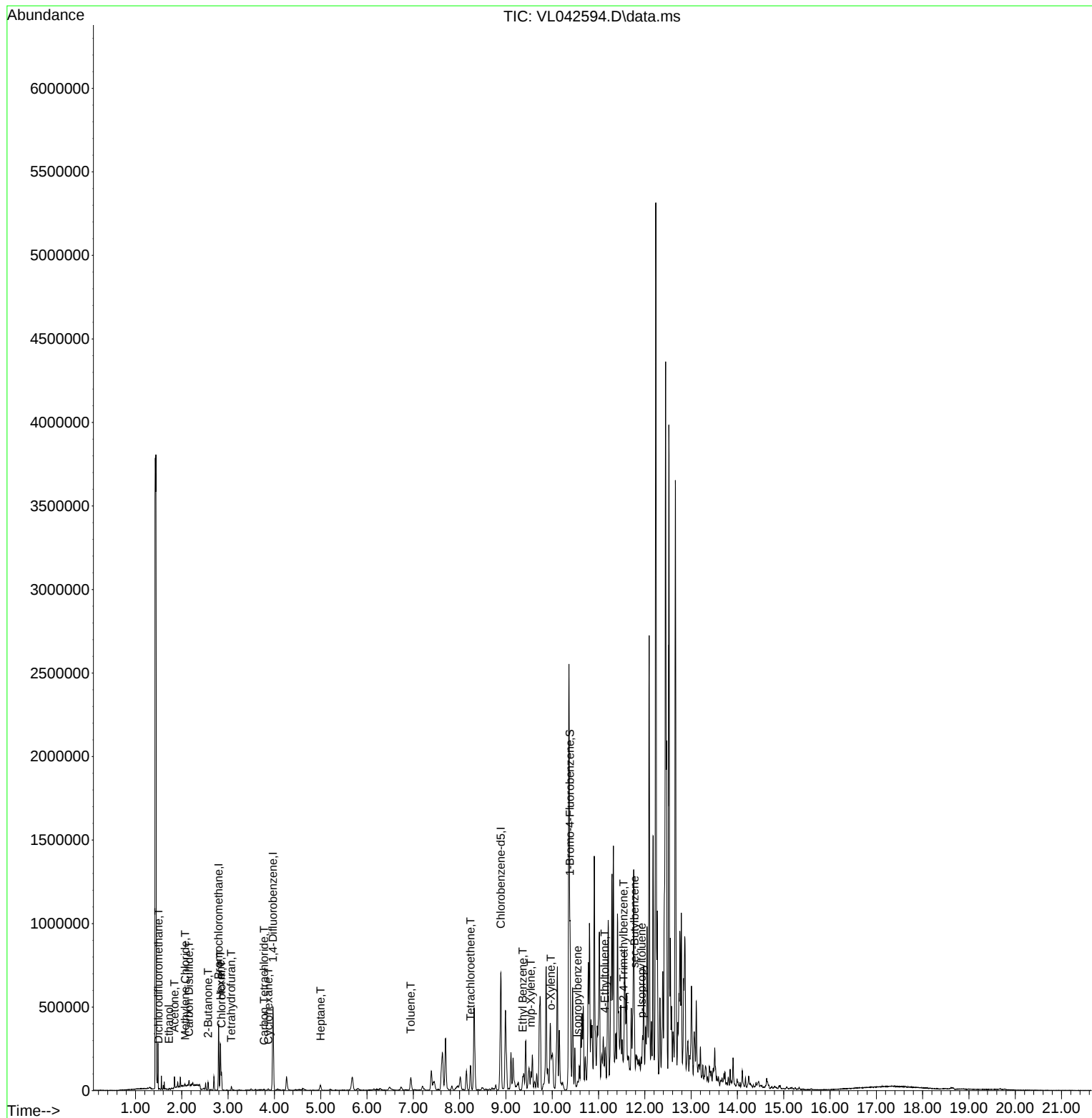
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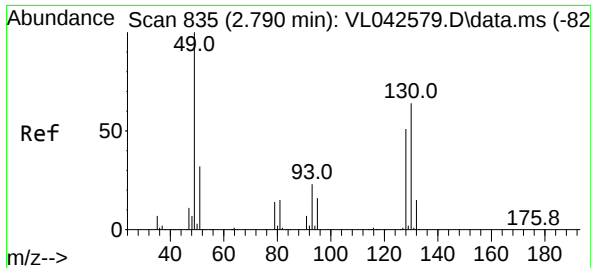
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QLast Update : Fri May 30 02:01:56 2025
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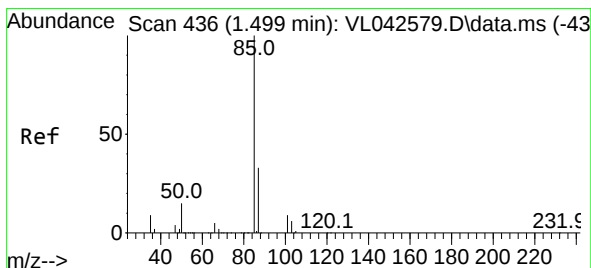
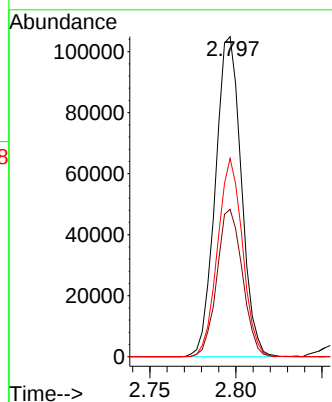
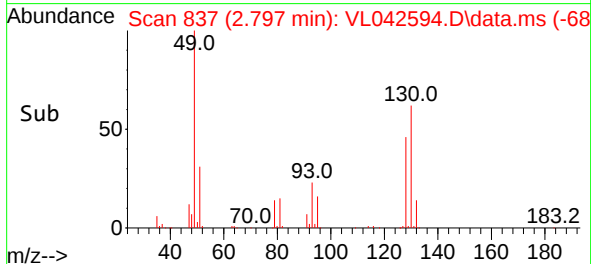
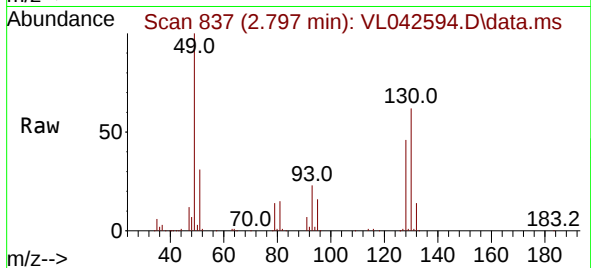
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 49 Resp: 10988
Ion Ratio Lower Upper
49 100
128 45.4 24.2 72.6
130 59.5 30.4 91.2

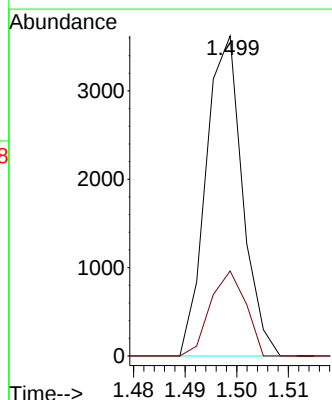
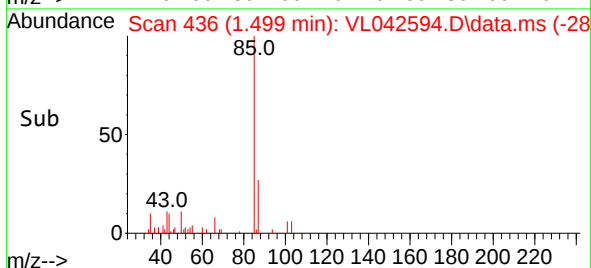
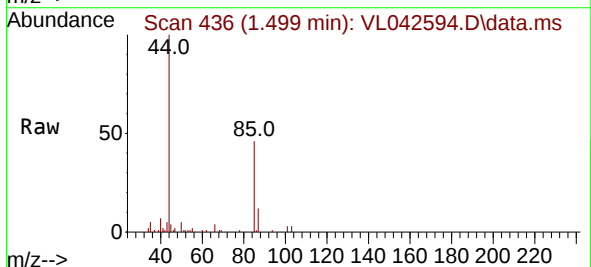
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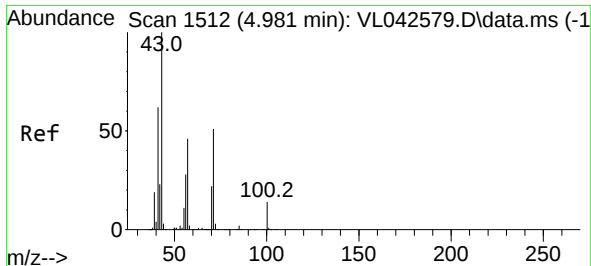
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#2
Dichlorodifluoromethane
Concen: 0.132 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

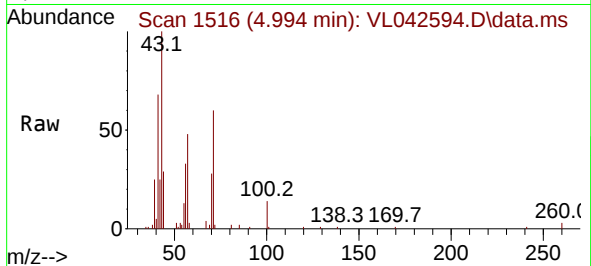
Tgt Ion: 85 Resp: 1779
Ion Ratio Lower Upper
85 100
87 26.6 26.6 39.8#





#10
Heptane
Concen: 0.659 ppbv
RT: 4.994 min Scan# 1516
Delta R.T. 0.013 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

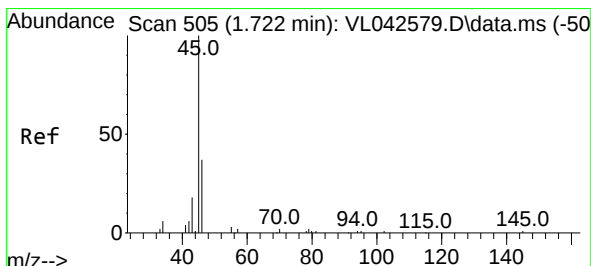
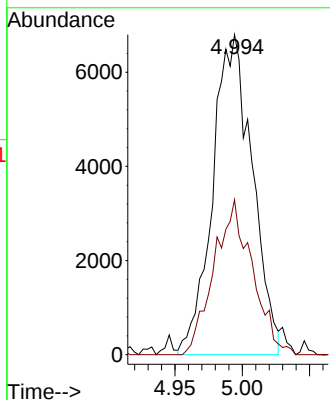
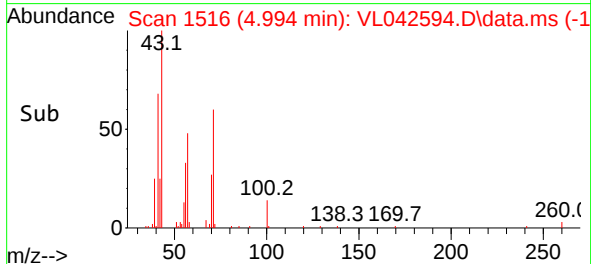
Instrument :
MSVOA_L
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SV3



Tgt Ion: 43 Resp: 1391
Ion Ratio Lower Upper
43 100
57 47.0 38.9 58.3

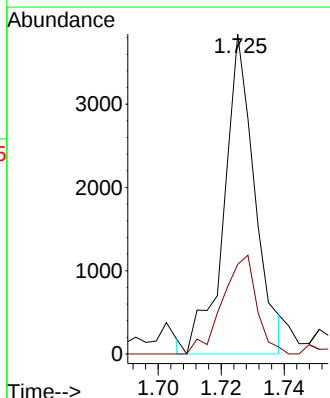
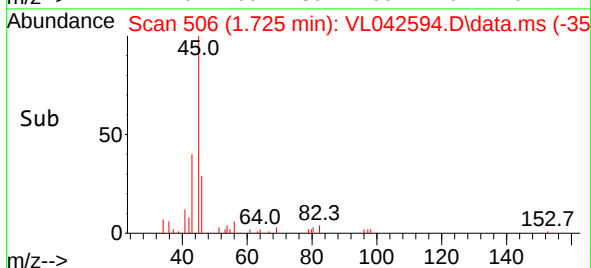
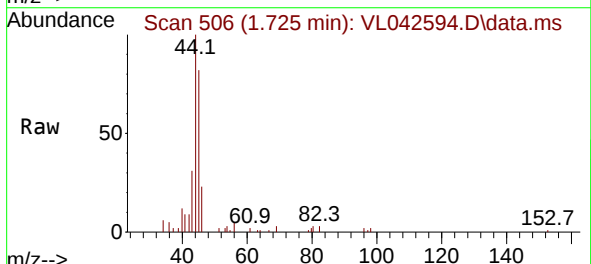
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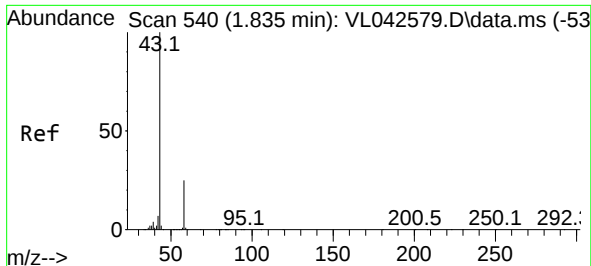
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#13
Ethanol
Concen: 2.908 ppbv m
RT: 1.725 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

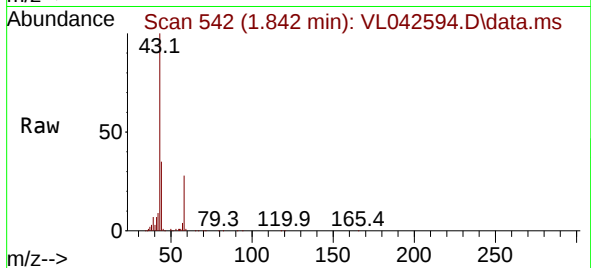
Tgt Ion: 45 Resp: 2596
Ion Ratio Lower Upper
45 100
46 0.0 14.5 58.1#





#15
Acetone
Concen: 2.112 ppbv
RT: 1.842 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

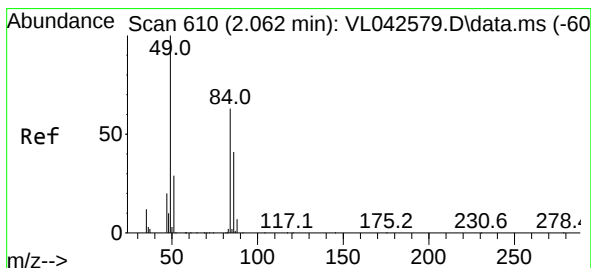
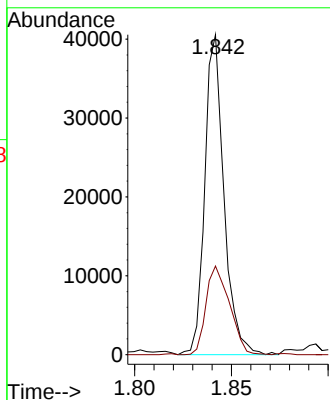
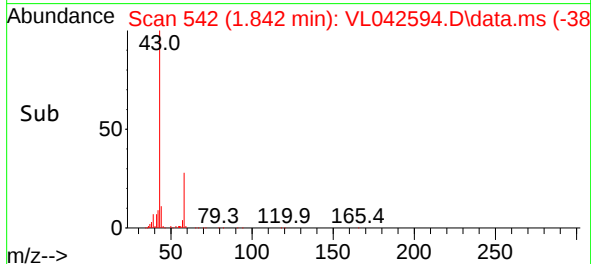
Instrument :
MSVOA_L
ClientSampleId :
SV3



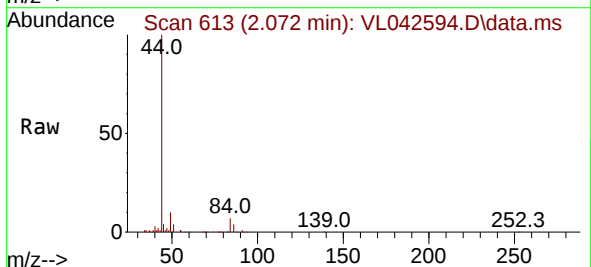
Tgt Ion: 43 Resp: 2795
Ion Ratio Lower Upper
43 100
58 34.3 21.0 31.4

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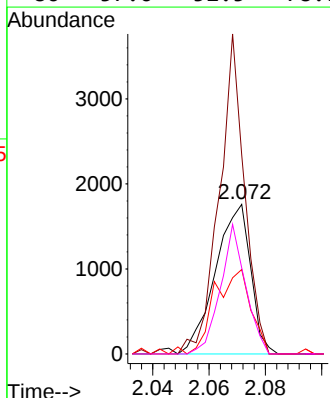
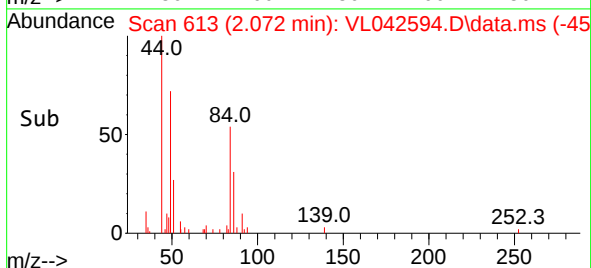
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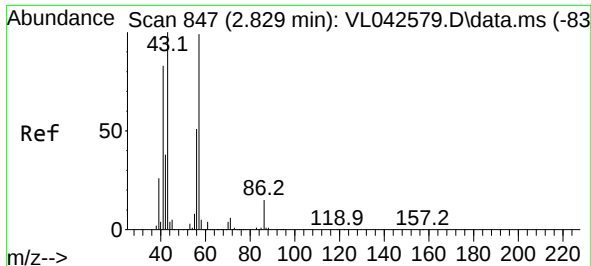


#20
Methylene Chloride
Concen: 0.349 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.010 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05



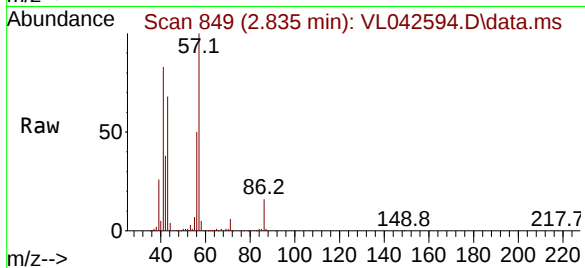
Tgt Ion: 84 Resp: 1525
Ion Ratio Lower Upper
84 100
49 133.1 128.8 193.2
51 56.5 38.6 57.8
86 57.6 52.5 78.7





#26
Hexane
Concen: 4.285 ppbv
RT: 2.835 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

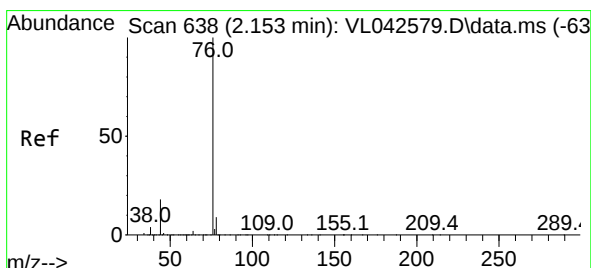
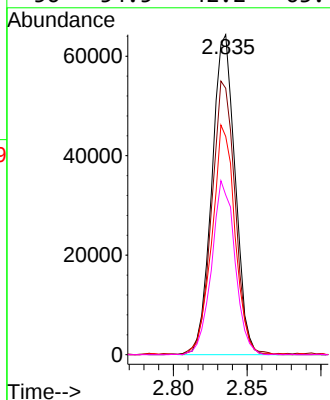
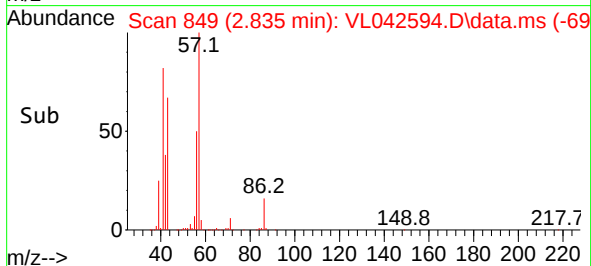
Instrument :
MSVOA_L
ClientSampleId :
SV3



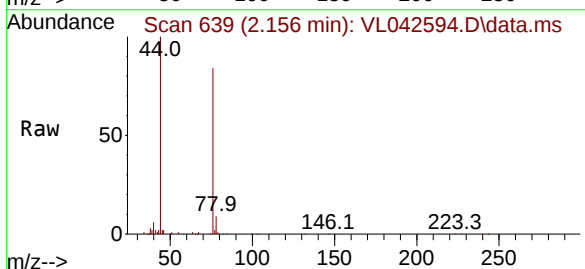
Tgt Ion: 57 Resp: 7052
Ion Ratio Lower Upper
57 100
41 87.4 70.6 106.0
43 71.5 181.1 271.7
56 54.5 42.2 63.4

Manual Integrations
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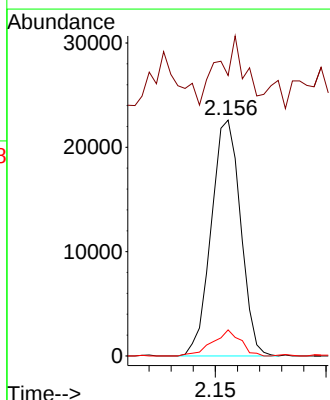
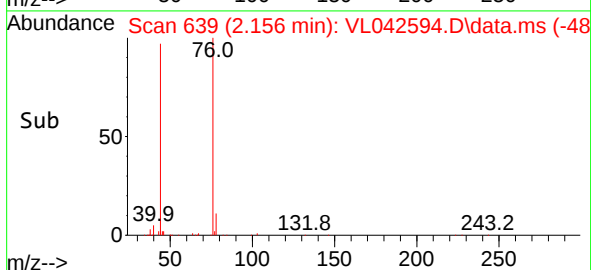
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

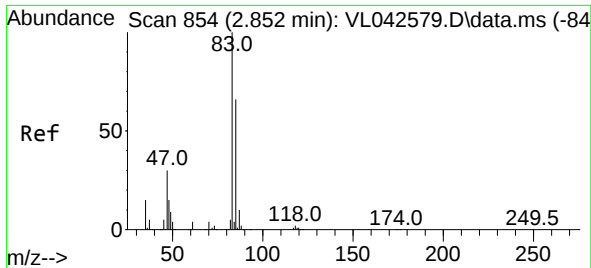


#27
Carbon Disulfide
Concen: 1.649 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05



Tgt Ion: 76 Resp: 20835
Ion Ratio Lower Upper
76 100
44 522.4 21.3 31.9#
78 10.8 9.4 14.0





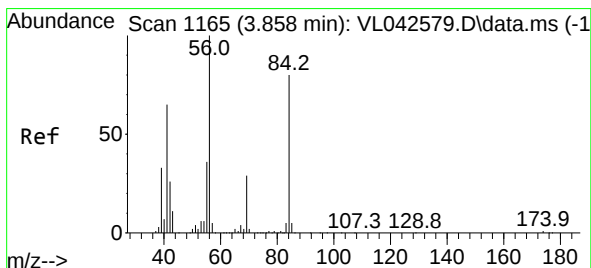
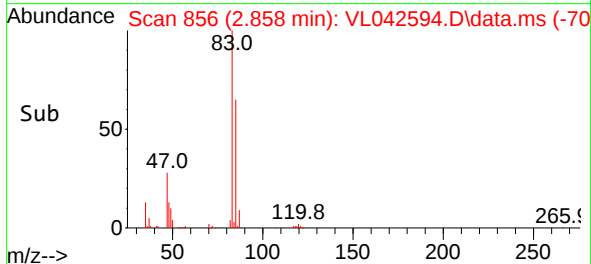
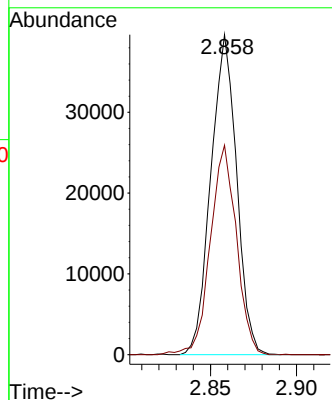
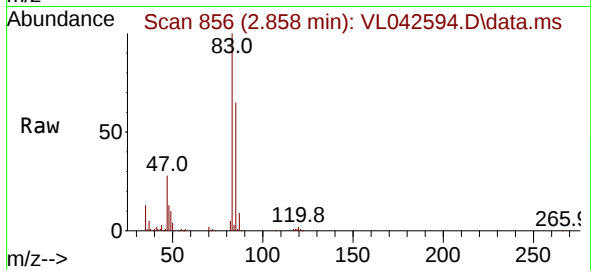
#29
Chloroform
Concen: 1.927 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.006 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
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Tgt Ion: 83 Resp: 41250
Ion Ratio Lower Upper
83 100
85 65.4 52.8 79.2

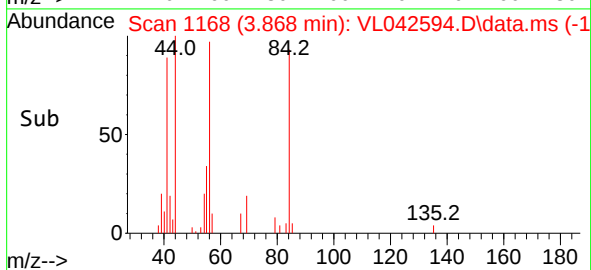
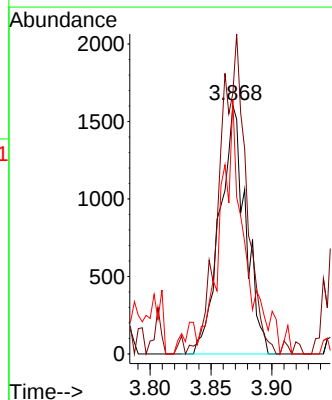
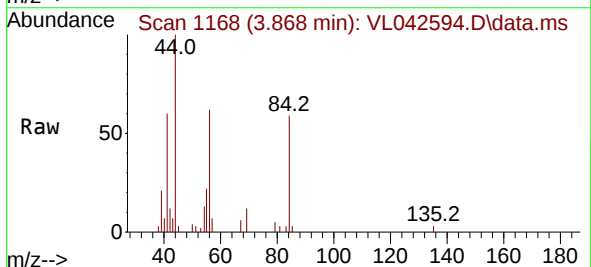
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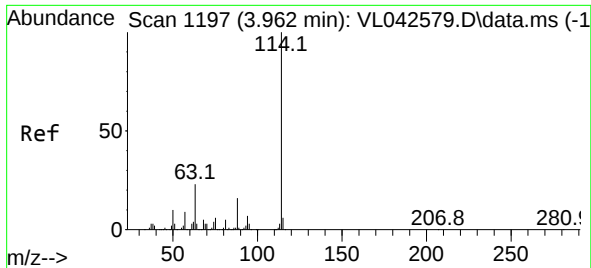
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#30
Cyclohexane
Concen: 0.173 ppbv m
RT: 3.868 min Scan# 1168
Delta R.T. 0.010 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

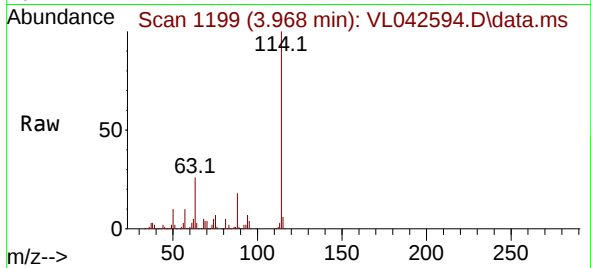
Tgt Ion: 84 Resp: 2359
Ion Ratio Lower Upper
84 100
56 0.0 103.7 155.5#
41 0.0 65.1 97.7#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1197
Delta R.T. 0.006 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

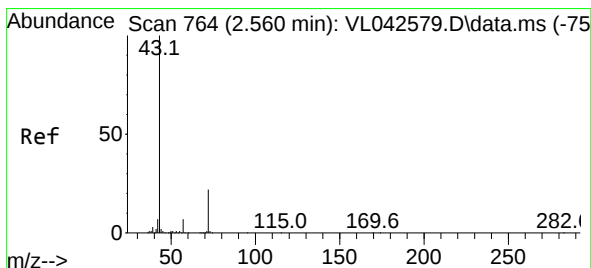
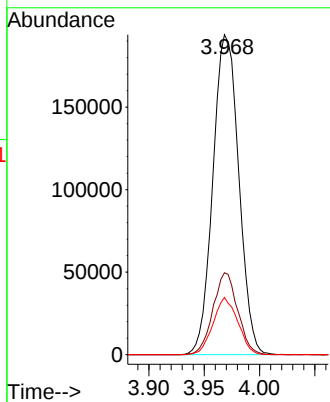
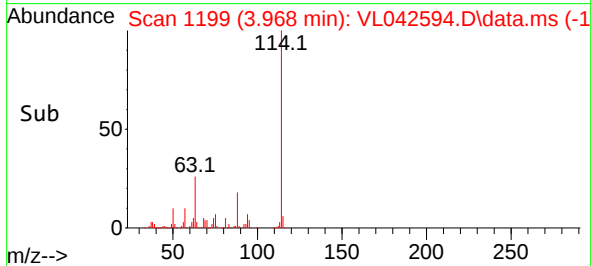
Instrument :
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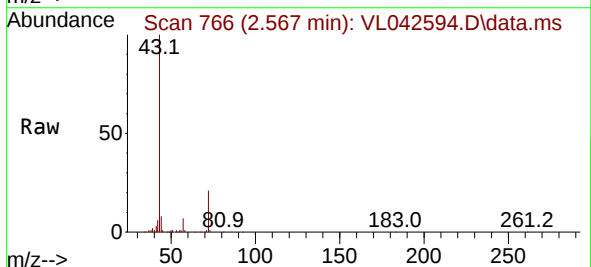
Tgt Ion:114 Resp: 31558
Ion Ratio Lower Upper
114 100
63 24.4 19.0 28.6
88 17.1 13.6 20.4

Manual Integrations
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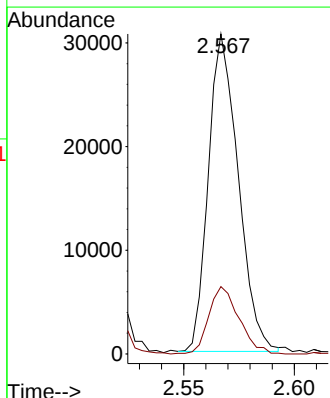
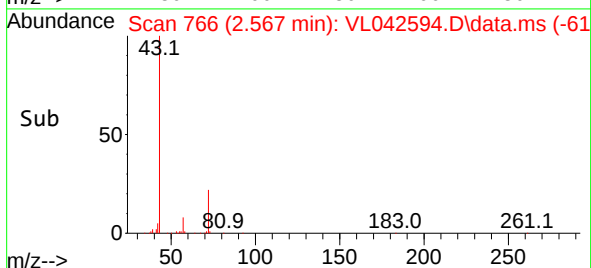
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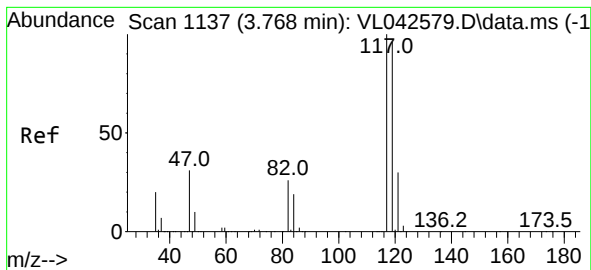


#34
2-Butanone
Concen: 1.275 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.006 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05



Tgt Ion: 43 Resp: 28702
Ion Ratio Lower Upper
43 100
72 21.4 17.7 26.5





#35

Carbon Tetrachloride

Concen: 0.074 ppbv

RT: 3.777 min Scan# 1137

Delta R.T. 0.010 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

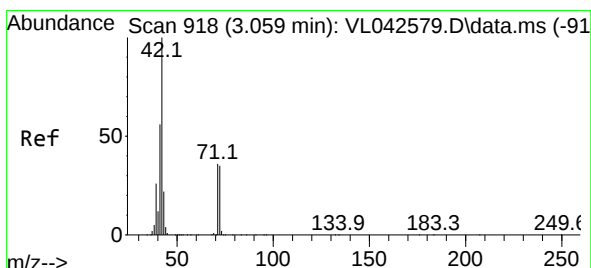
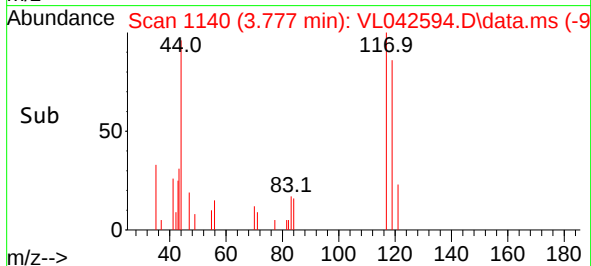
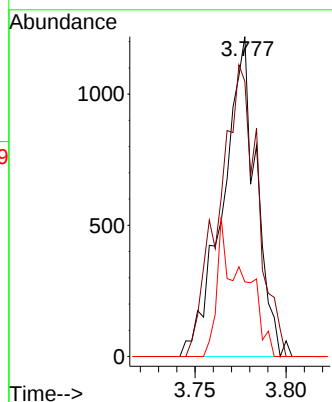
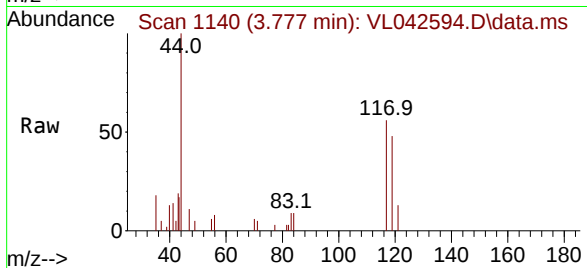
SV3

Tgt Ion:117	Resp:	154
Ion Ratio	Lower	Upper
117	100	
119	86.1	76.8 115.2
121	23.4	24.3 36.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#41

Tetrahydrofuran

Concen: 0.694 ppbv m

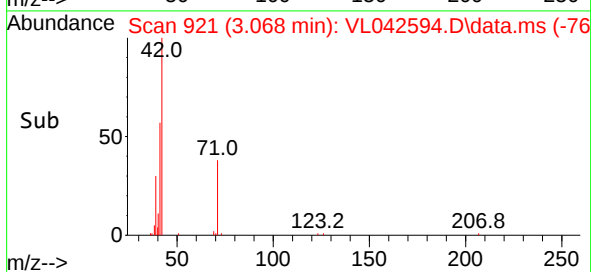
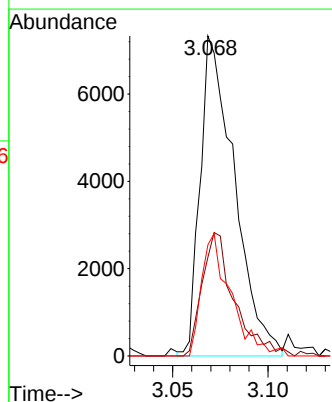
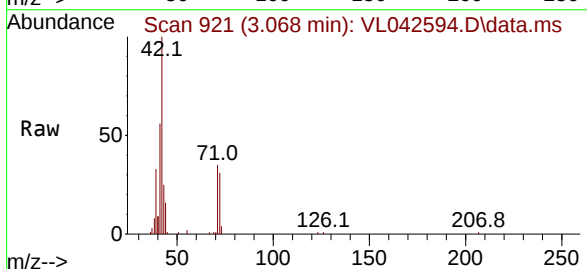
RT: 3.068 min Scan# 921

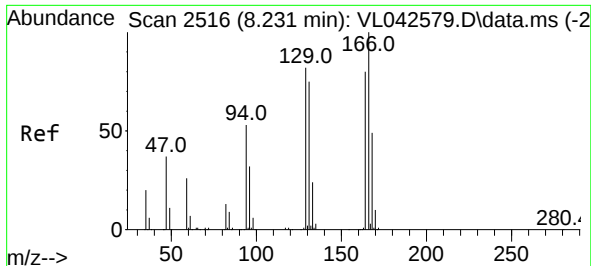
Delta R.T. 0.010 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

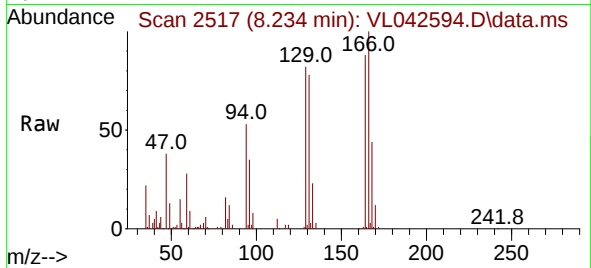
Tgt Ion: 42	Resp:	9145
Ion Ratio	Lower	Upper
42	100	
72	36.7	28.9 43.3
71	32.9	28.5 42.7





#52
Tetrachloroethene
Concen: 2.267 ppbv
RT: 8.234 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

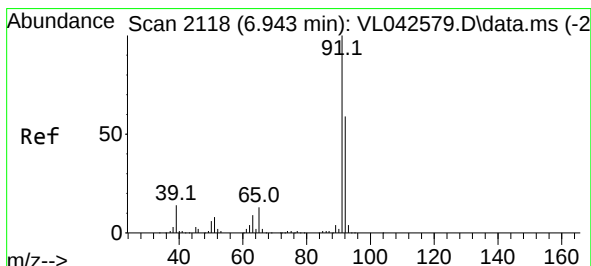
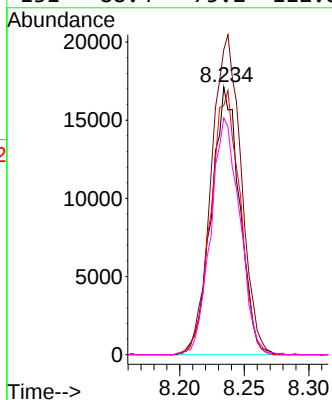
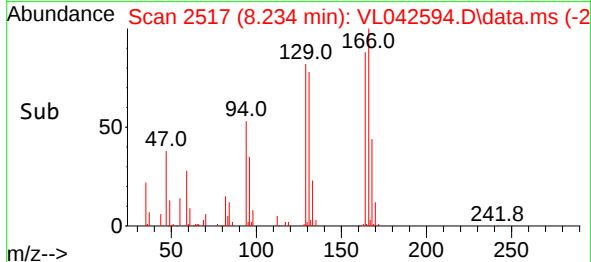
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion:164 Resp: 26320
Ion Ratio Lower Upper
164 100
166 114.0 100.0 150.0
129 92.6 82.2 123.4
131 88.4 75.2 112.8

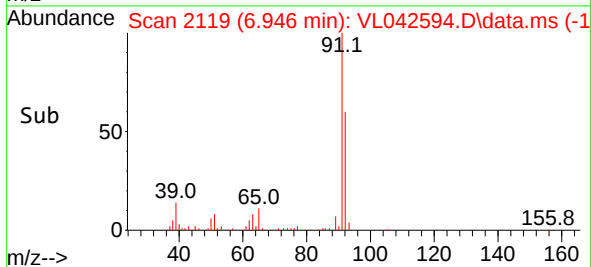
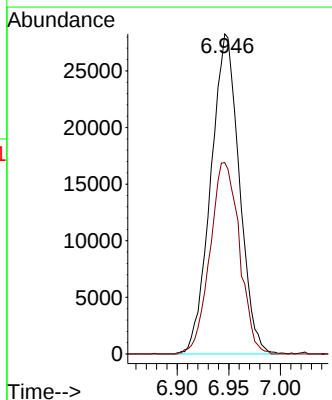
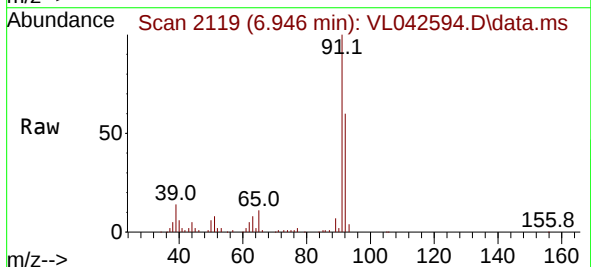
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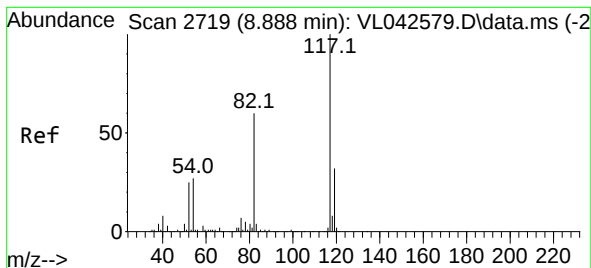
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#53
Toluene
Concen: 1.512 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

Tgt Ion: 91 Resp: 54297
Ion Ratio Lower Upper
91 100
92 61.7 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2719

Delta R.T. 0.003 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

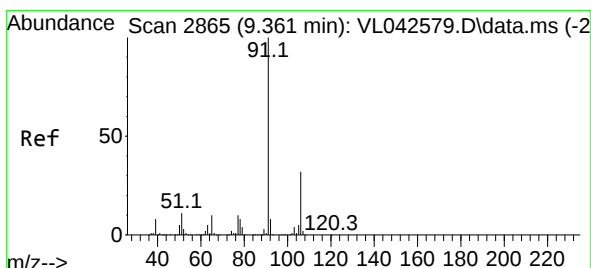
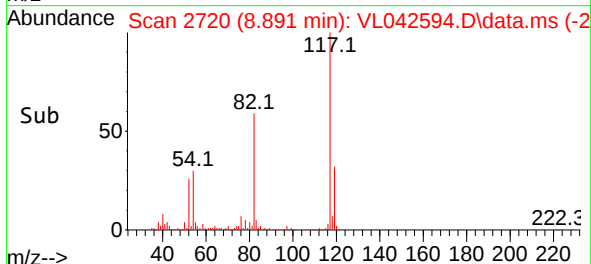
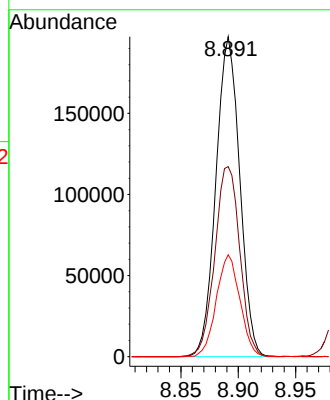
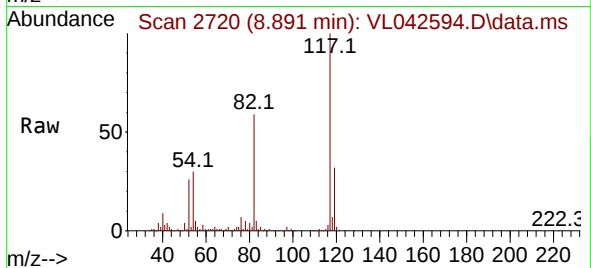
SV3

Tgt Ion:	117	Resp:	28441
Ion Ratio	Lower	Upper	
117	100		
82	62.5	51.2	76.8
119	31.6	26.3	39.5

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Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#58

Ethyl Benzene

Concen: 0.701 ppbv

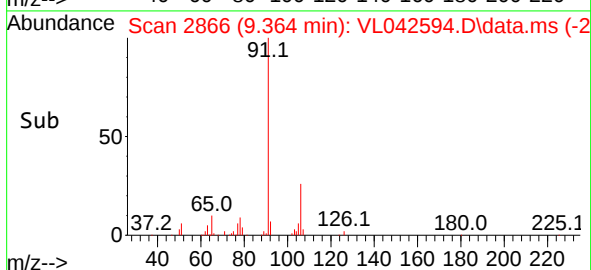
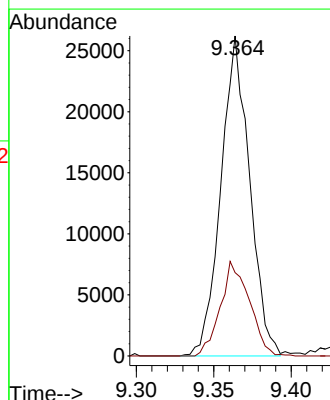
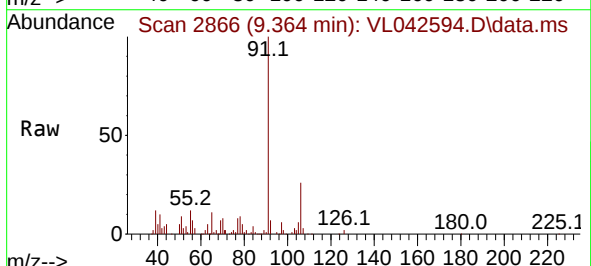
RT: 9.364 min Scan# 2866

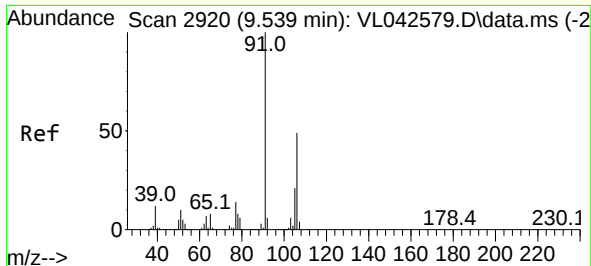
Delta R.T. 0.003 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

Tgt Ion:	91	Resp:	33818
Ion Ratio	Lower	Upper	
91	100		
106	26.1	25.9	38.9





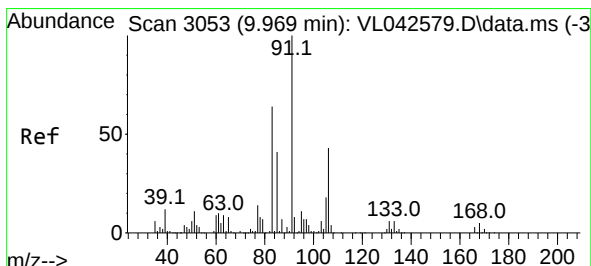
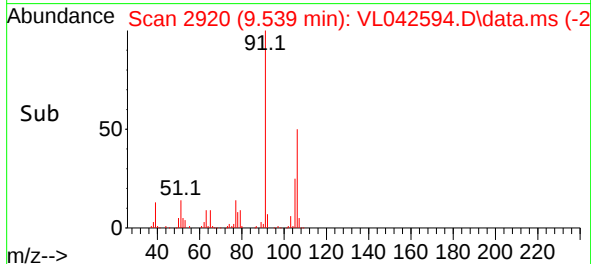
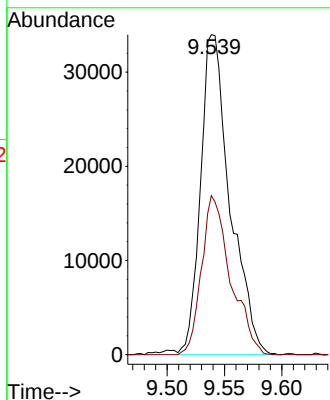
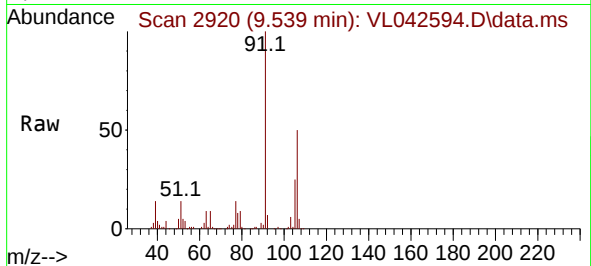
#59
m/p-Xylene
Concen: 1.603 ppbv
RT: 9.539 min Scan# 2920
Delta R.T. -0.000 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 91 Resp: 60849
Ion Ratio Lower Upper
91 100
106 49.0 38.8 58.2

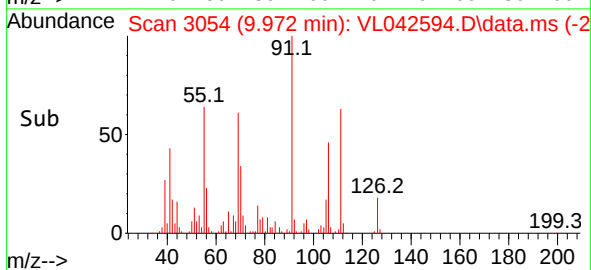
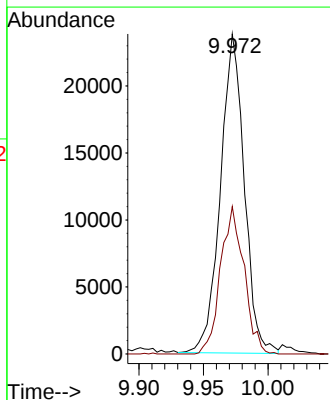
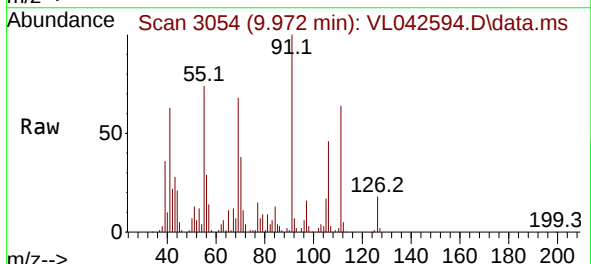
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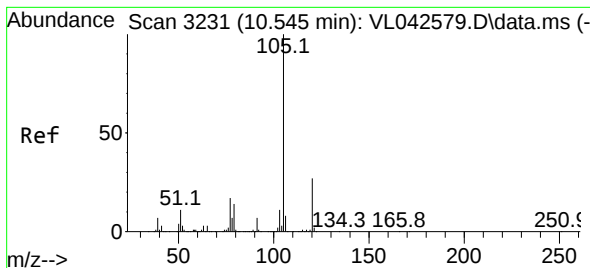
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#60
o-Xylene
Concen: 0.807 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

Tgt Ion: 91 Resp: 30572
Ion Ratio Lower Upper
91 100
106 45.5 22.9 68.5





#62

Isopropylbenzene

Concen: 0.266 ppbv

RT: 10.548 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042594.D

Acq: 29 May 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion:105 Resp: 1486

Ion Ratio Lower Upper

105 100

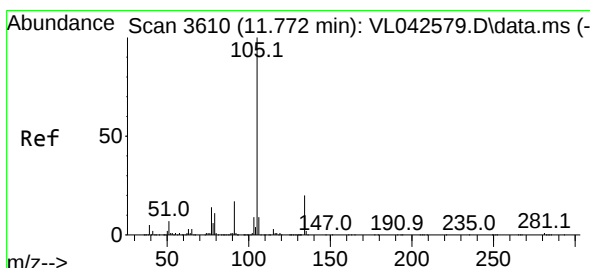
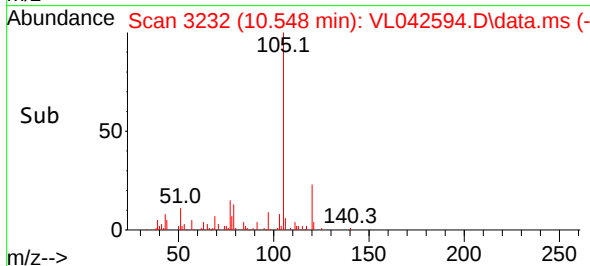
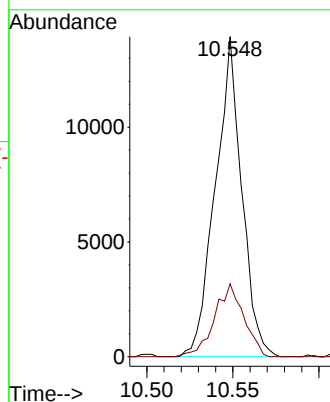
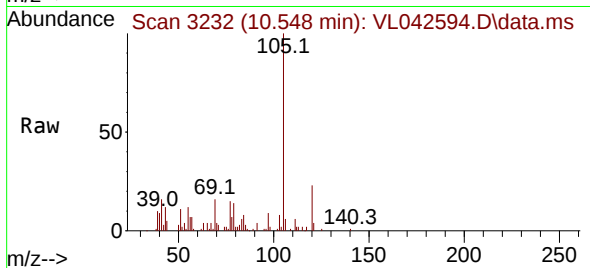
120 25.3 20.9 31.3

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Reviewed By :Semsettin Yesilyurt 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025



#67

sec-Butylbenzene

Concen: 0.255 ppbv m

RT: 11.775 min Scan# 3611

Delta R.T. 0.003 min

Lab File: VL042594.D

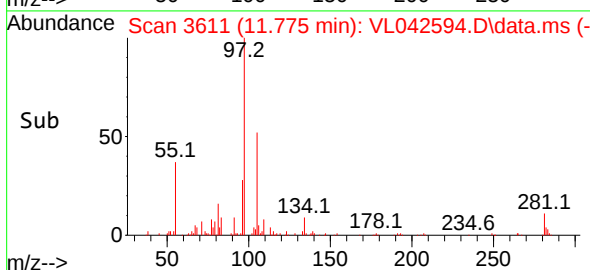
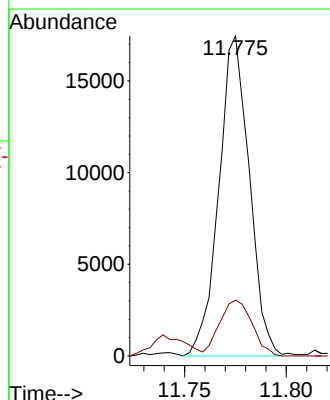
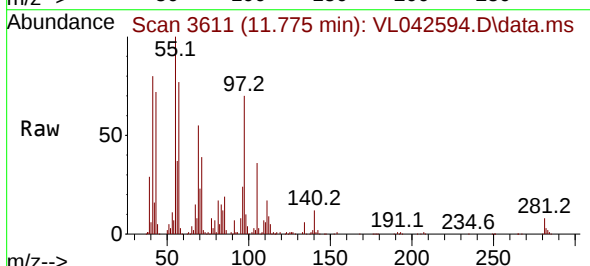
Acq: 29 May 2025 20:05

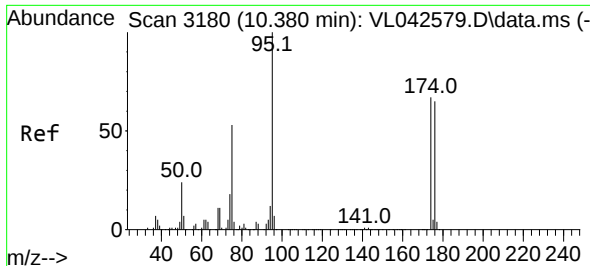
Tgt Ion:105 Resp: 18180

Ion Ratio Lower Upper

105 100

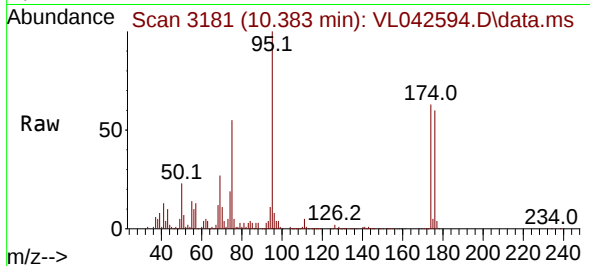
134 14.1 15.8 23.6#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.888 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

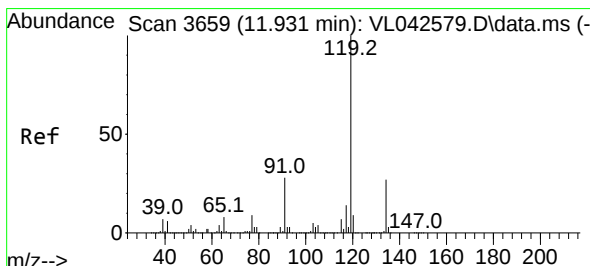
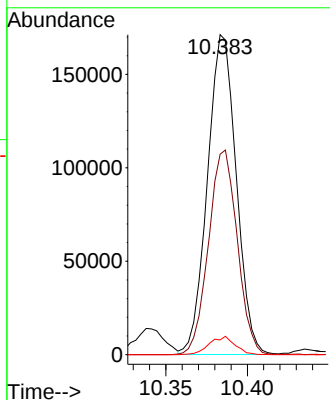
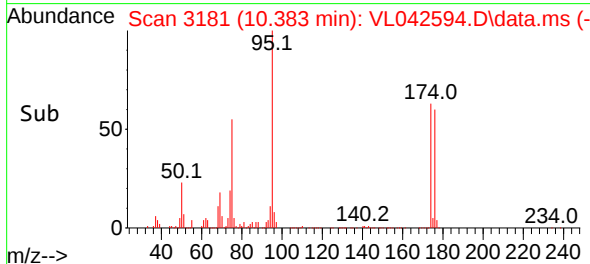
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 95 Resp: 21081
Ion Ratio Lower Upper
95 100
174 63.8 53.1 79.7
175 5.1 4.2 6.2

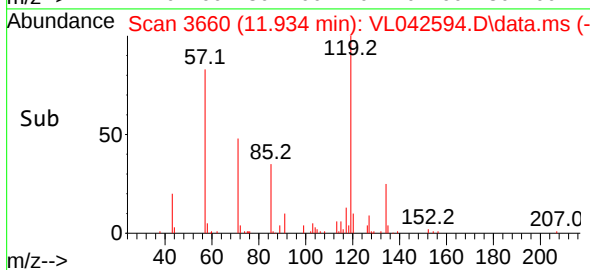
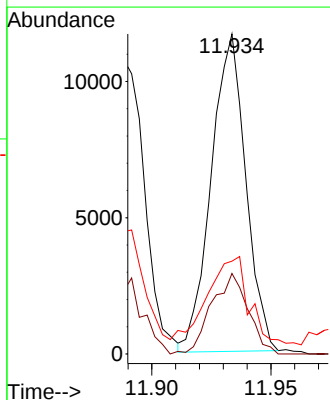
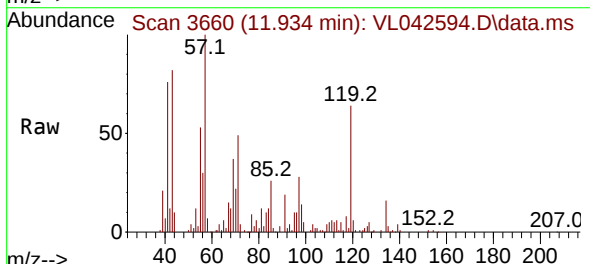
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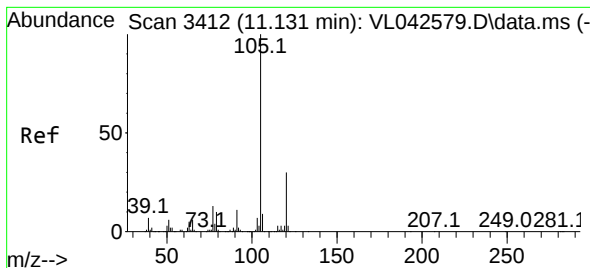
Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#69
p-Isopropyltoluene
Concen: 0.197 ppbv
RT: 11.934 min Scan# 3660
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

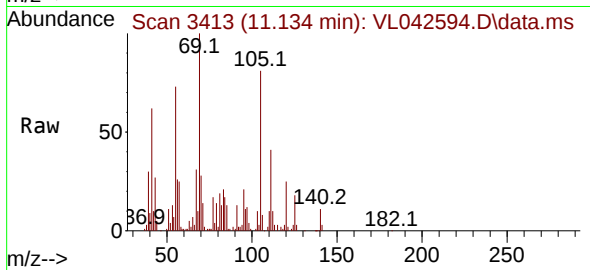
Tgt Ion:119 Resp: 11768
Ion Ratio Lower Upper
119 100
134 26.6 21.1 31.7
91 30.7 21.9 32.9





#72
4-Ethyltoluene
Concen: 0.376 ppbv
RT: 11.134 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

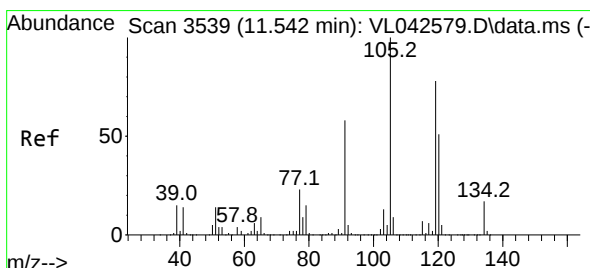
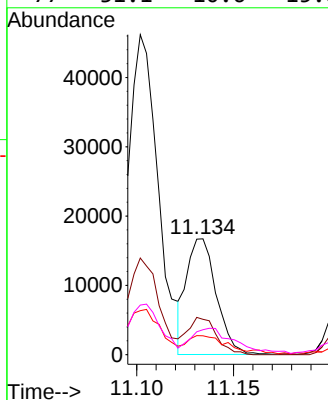
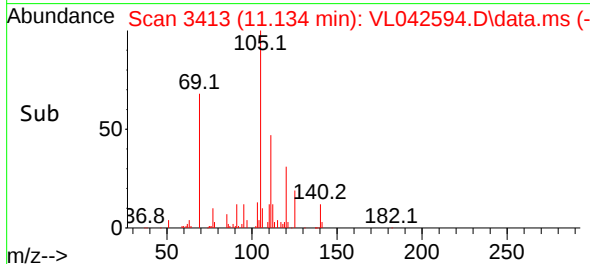
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion:105 Resp: 17749
Ion Ratio Lower Upper
105 100
120 0.0 24.6 36.8#
91 0.0 9.6 14.4#
77 31.1 10.6 15.8#

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.936 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.000 min
Lab File: VL042594.D
Acq: 29 May 2025 20:05

Tgt Ion:105 Resp: 40578
Ion Ratio Lower Upper
105 100
120 44.2 40.8 61.2
91 13.5 46.8 70.2#
77 12.5 18.2 27.2#

