

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042375.D
 Acq On : 18 Apr 2025 00:59
 Operator : SY/MD
 Sample : Q1668-03DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-3-3252025DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 04:38:48 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	102685	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	291278	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	253844	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	212240	10.175	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2776	0.153	ppbv	95
4) Chloromethane	1.531	50	1399	0.195	ppbv #	59
9) Propene	1.486	41	1821	0.231	ppbv	93
10) Heptane	4.978	43	9132	0.413	ppbv	97
13) Ethanol	1.719	45	62213	49.750	ppbv	76
15) Acetone	1.835	43	27092	1.612	ppbv	99
19) Isopropyl Alcohol	1.887	45	6854	0.734	ppbv #	1
20) Methylene Chloride	2.059	84	4314	0.655	ppbv #	91
26) Hexane	2.826	57	13454	0.802	ppbv #	34
30) Cyclohexane	3.852	84	6275	0.463	ppbv #	89
34) 2-Butanone	2.560	43	4829	0.210	ppbv	92
36) Benzene	3.658	78	5293m	0.168	ppbv	
50) 4-Methyl-2-Pentanone	5.755	43	153256	4.003	ppbv	98
53) Toluene	6.930	91	14415m	0.382	ppbv	
58) Ethyl Benzene	9.354	91	14757	0.293	ppbv	95
59) m/p-Xylene	9.529	91	84682	2.090	ppbv	99
60) o-Xylene	9.963	91	28511	0.699	ppbv	100
61) Styrene	9.869	104	4030m	0.207	ppbv	
64) n-propylbenzene	10.985	120	2319	0.154	ppbv #	52
70) n-Butylbenzene	12.287	91	8652m	0.125	ppbv	
72) 4-Ethyltoluene	11.121	105	17311	0.347	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.202	105	20692	0.470	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	73024	1.420	ppbv #	61
79) Naphthalene	13.510	128	6160	0.100	ppbv #	96

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

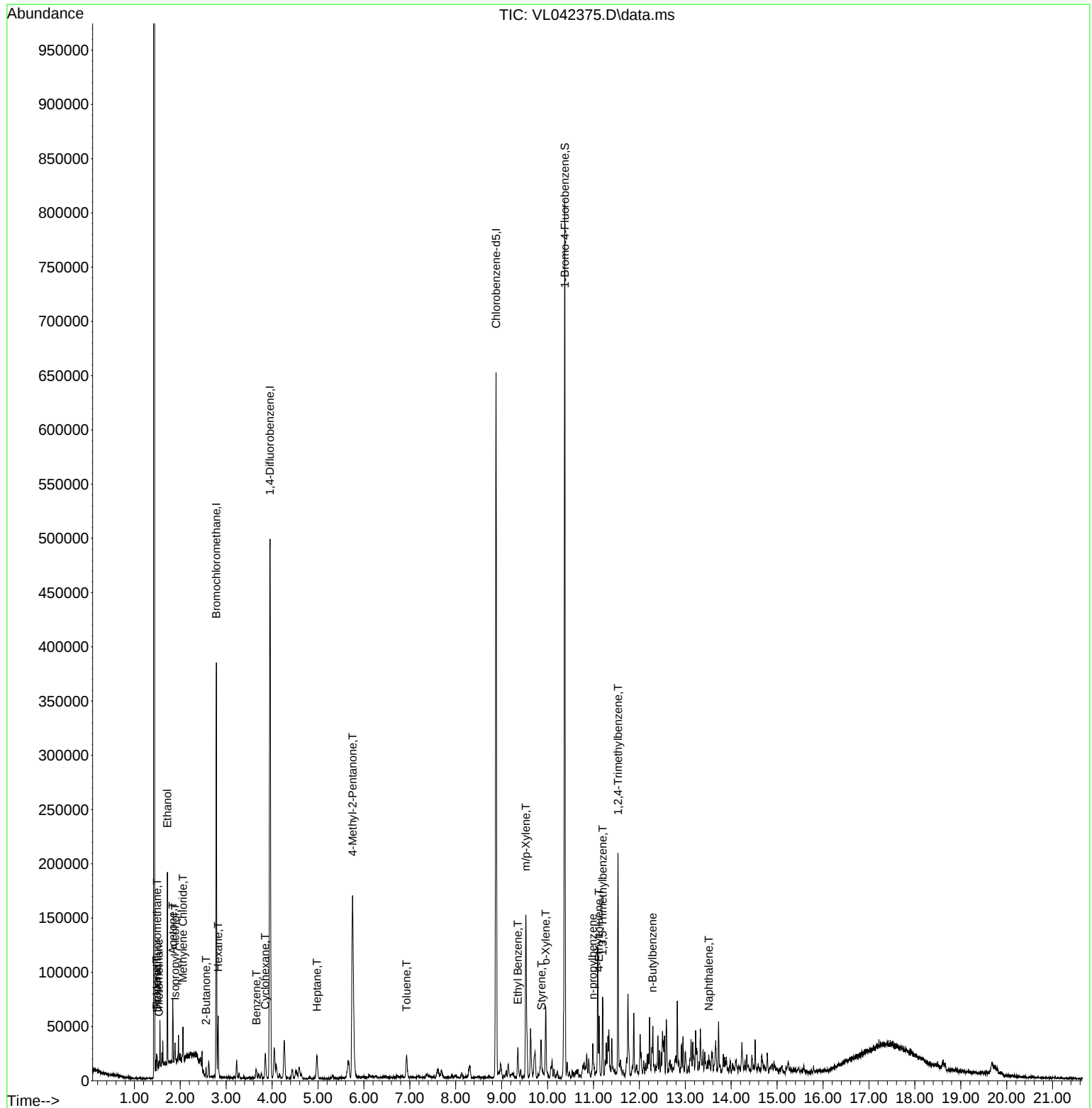
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042375.D
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Operator : SY/MD
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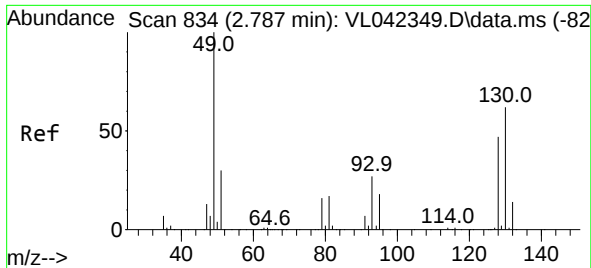
Instrument :
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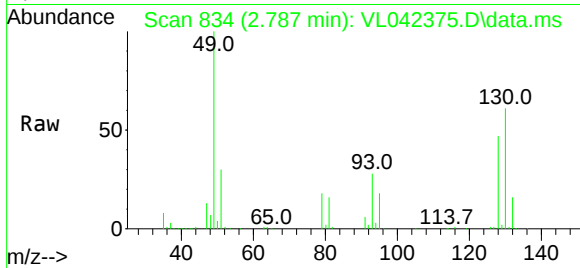
Quant Time: Apr 18 04:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

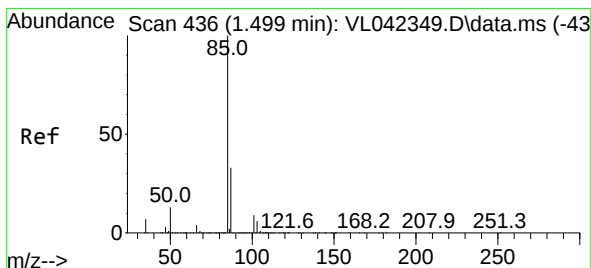
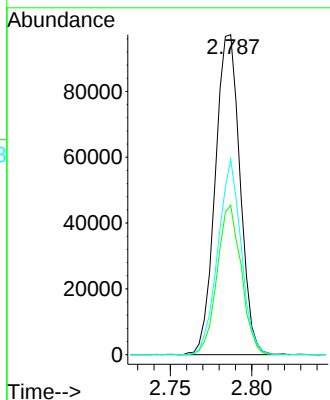
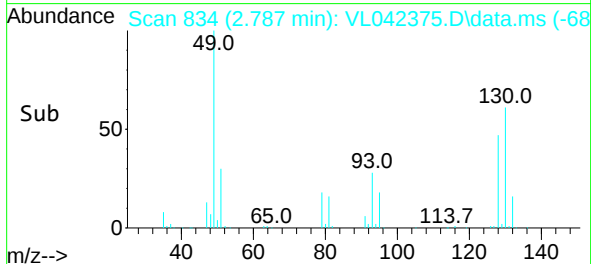
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL



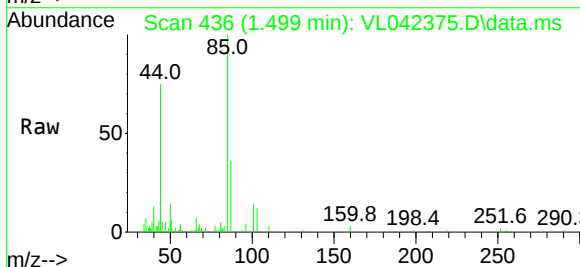
Tgt Ion: 49 Resp: 102685
Ion Ratio Lower Upper
49 100
128 45.4 22.8 68.4
130 57.2 29.3 88.0

Manual Integrations
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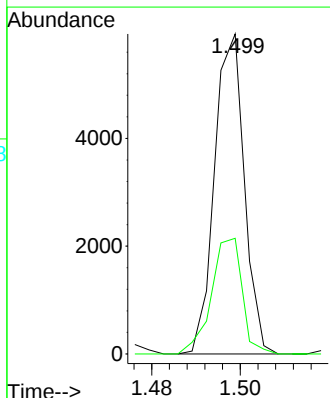
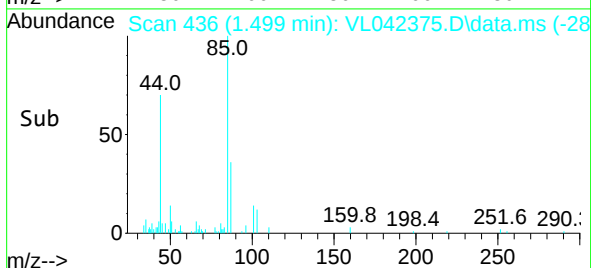
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Supervised By :Mahesh Dadoda 04/18/2025

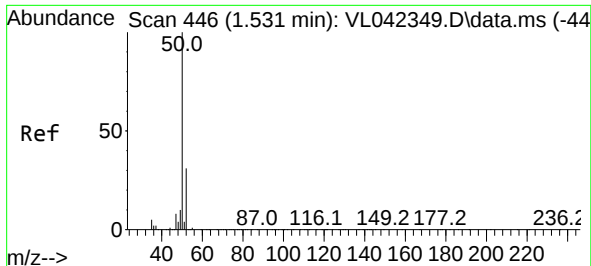


#2
Dichlorodifluoromethane
Concen: 0.153 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59



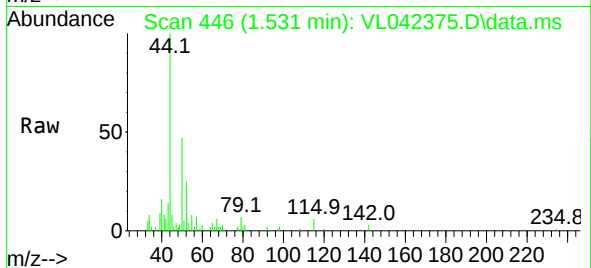
Tgt Ion: 85 Resp: 2776
Ion Ratio Lower Upper
85 100
87 36.2 26.6 39.8





#4
Chloromethane
Concen: 0.195 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

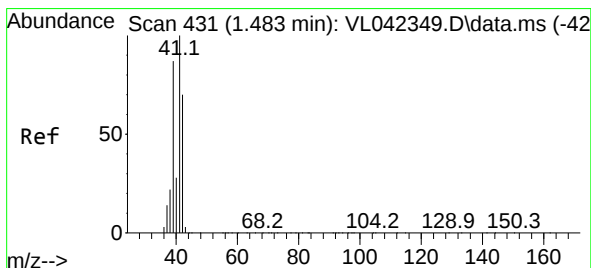
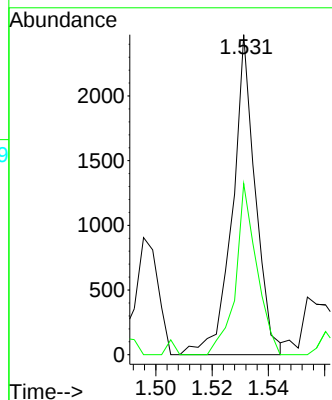
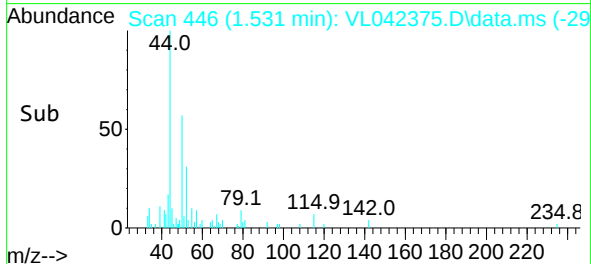
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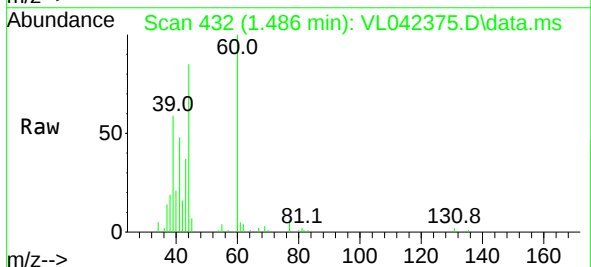
Tgt Ion: 50 Resp: 1399
Ion Ratio Lower Upper
50 100
52 53.5 24.7 37.1

Manual Integrations
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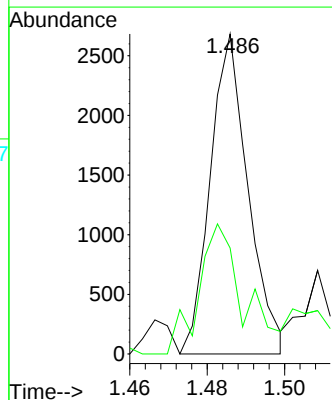
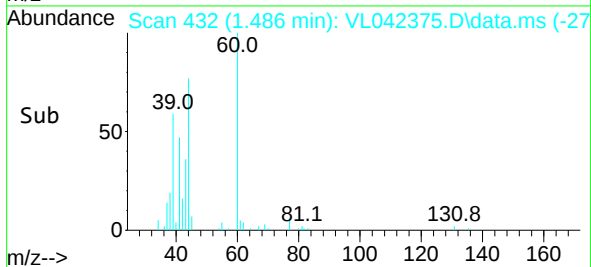
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

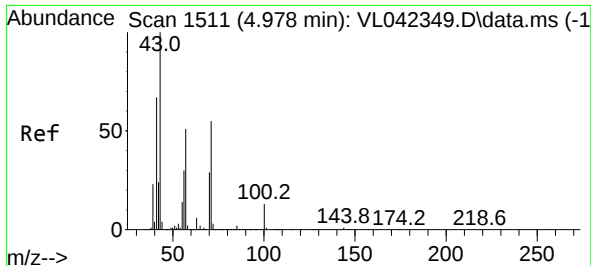


#9
Propene
Concen: 0.231 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59



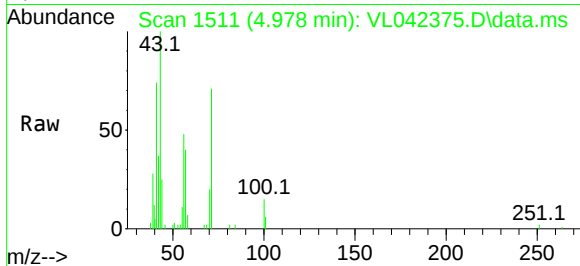
Tgt Ion: 41 Resp: 1821
Ion Ratio Lower Upper
41 100
42 64.4 56.2 84.4





#10
Heptane
Concen: 0.413 ppbv
RT: 4.978 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

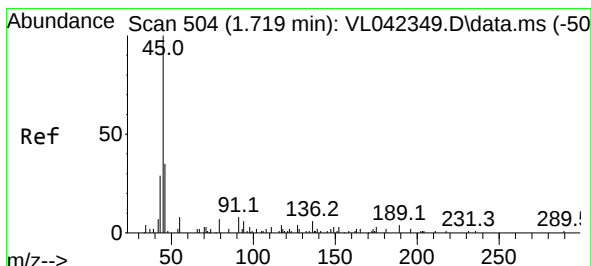
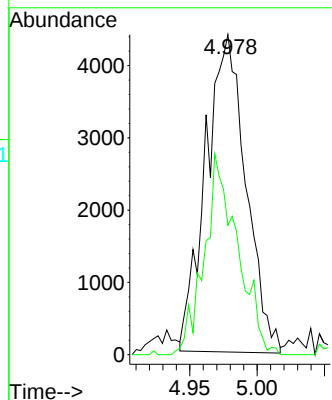
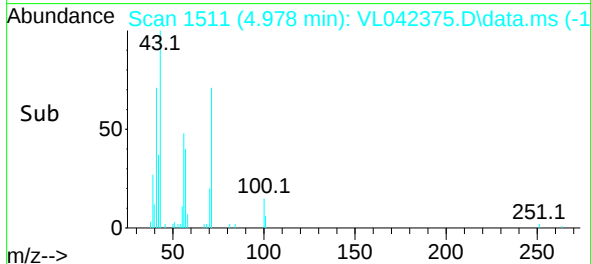
Instrument :
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ClientSampleId :
IA-B1-3-3252025DL



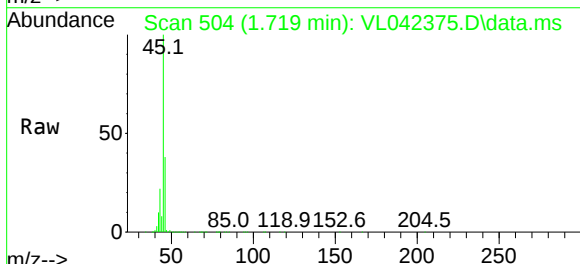
Tgt Ion: 43 Resp: 913
Ion Ratio Lower Upper
43 100
57 52.1 39.9 59.9

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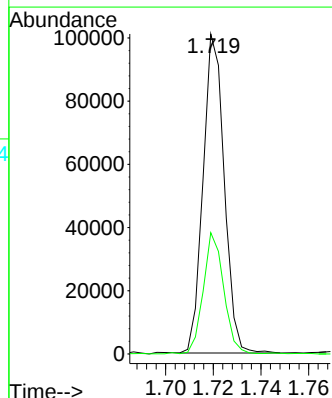
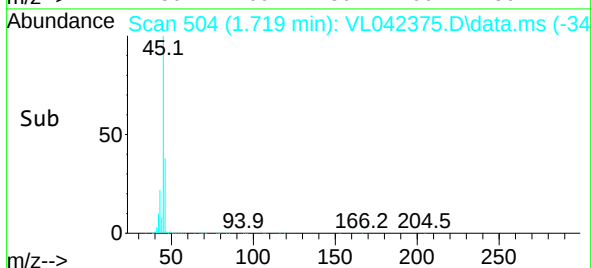
Reviewed By :Semsettin Yesilyurt 04/18/2025
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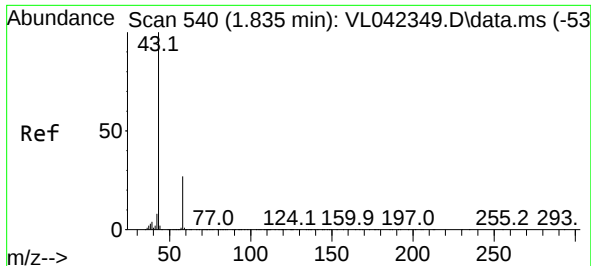


#13
Ethanol
Concen: 49.750 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59



Tgt Ion: 45 Resp: 62213
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7





#15

Acetone

Concen: 1.612 ppbv

RT: 1.835 min Scan# 540

Delta R.T. 0.000 min

Lab File: VL042375.D

Acq: 18 Apr 2025 00:59

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-3-3252025DL

Tgt Ion: 43 Resp: 27092

Ion Ratio Lower Upper

43 100

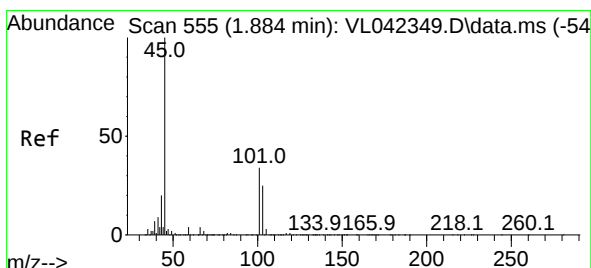
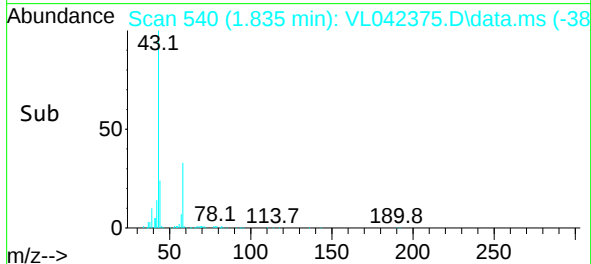
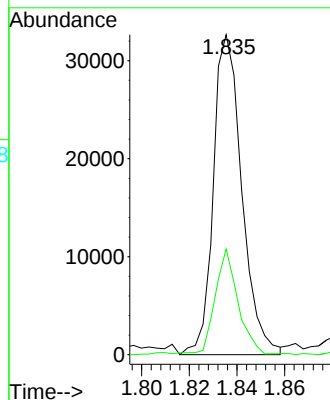
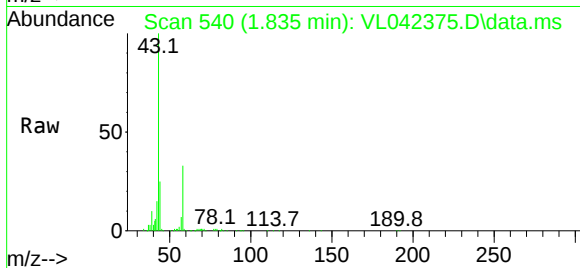
58 27.4 22.4 33.6

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 04/18/2025



#19

Isopropyl Alcohol

Concen: 0.734 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042375.D

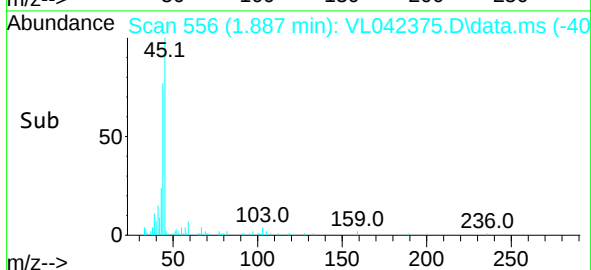
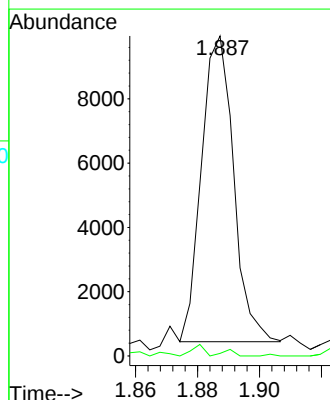
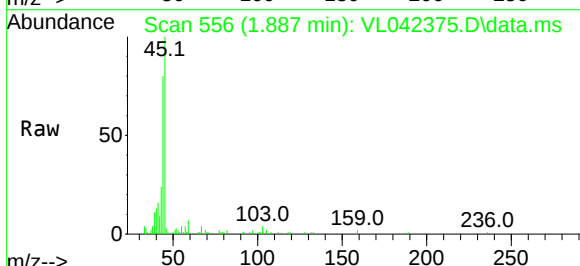
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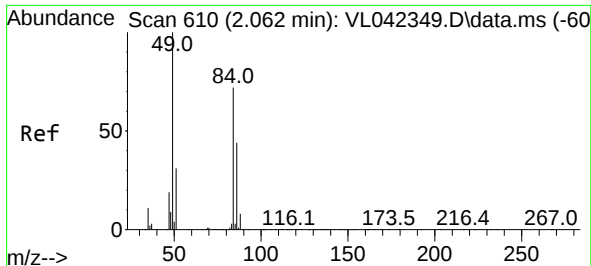
Tgt Ion: 45 Resp: 6854

Ion Ratio Lower Upper

45 100

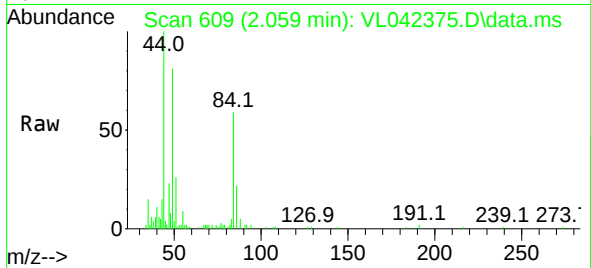
58 108.5 34.5 51.7#





#20
Methylene Chloride
Concen: 0.655 ppbv
RT: 2.059 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

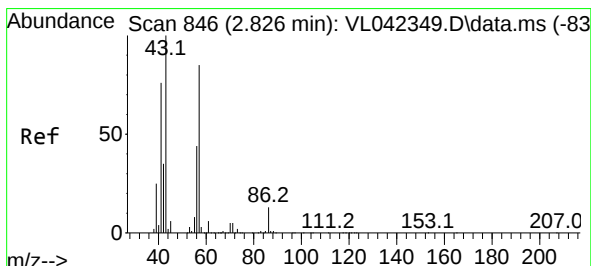
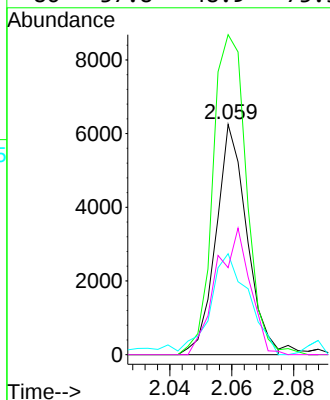
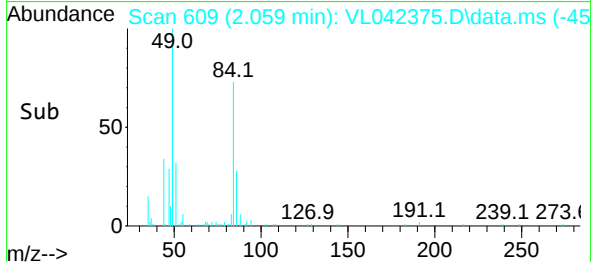
Instrument :
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ClientSampleId :
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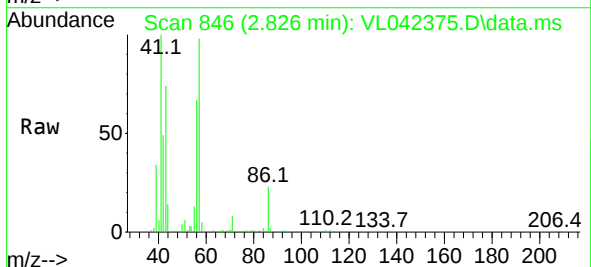
Tgt Ion: 84 Resp: 4314
Ion Ratio Lower Upper
84 100
49 138.9 111.6 167.4
51 41.7 35.1 52.7
86 37.8 48.9 73.3#

Manual Integrations
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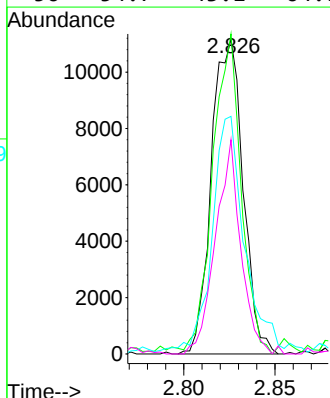
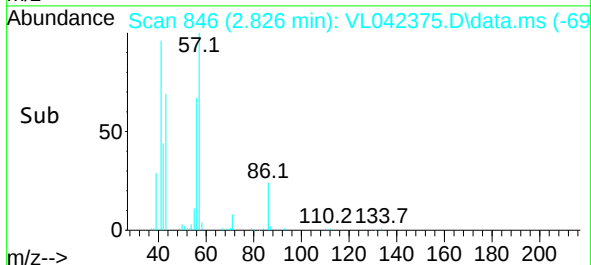
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

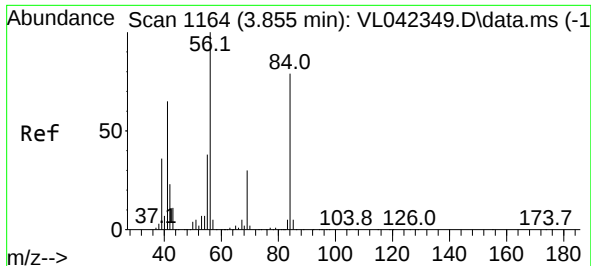


#26
Hexane
Concen: 0.802 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59



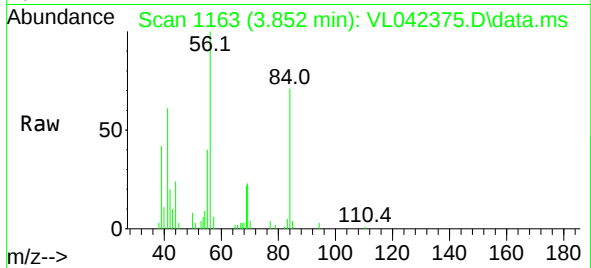
Tgt Ion: 57 Resp: 13454
Ion Ratio Lower Upper
57 100
41 91.8 77.9 116.9
43 78.3 208.4 312.6#
56 54.7 43.1 64.7





#30
Cyclohexane
Concen: 0.463 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

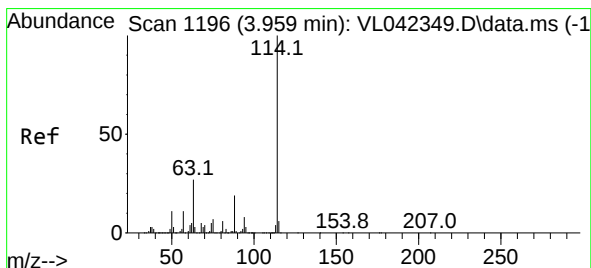
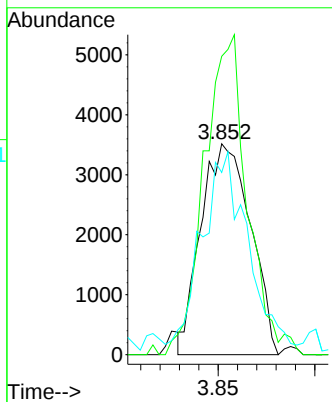
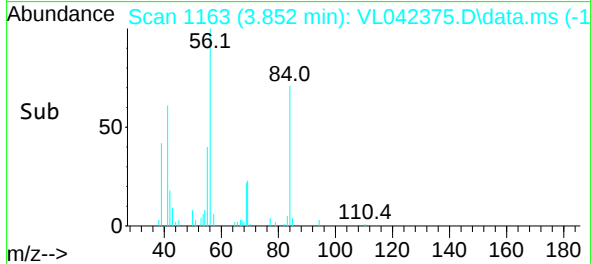
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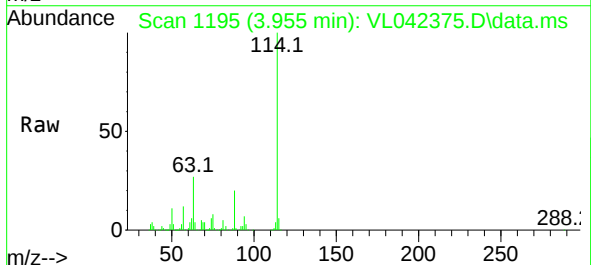
Tgt Ion: 84 Resp: 6275
Ion Ratio Lower Upper
84 100
56 131.3 101.0 151.4
41 103.5 67.4 101.0

Manual Integrations
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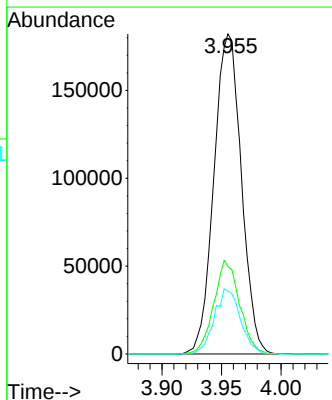
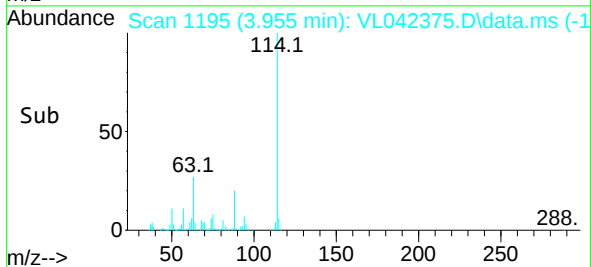
Reviewed By :Semsettin Yesilyurt 04/18/2025
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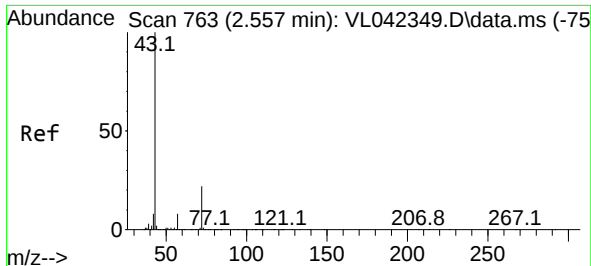


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59



Tgt Ion:114 Resp: 291278
Ion Ratio Lower Upper
114 100
63 27.5 21.8 32.6
88 19.2 15.5 23.3





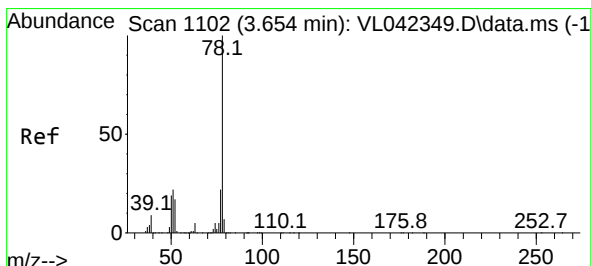
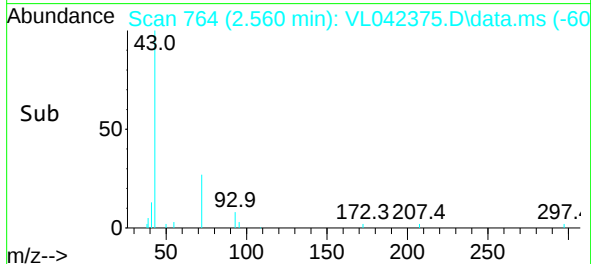
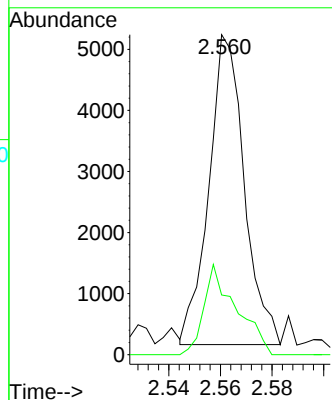
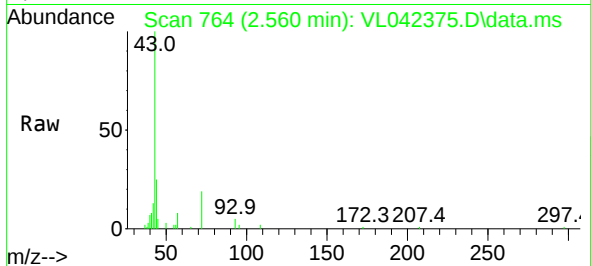
#34
2-Butanone
Concen: 0.210 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
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Tgt Ion: 43 Resp: 4829
Ion Ratio Lower Upper
43 100
72 26.7 18.2 27.2

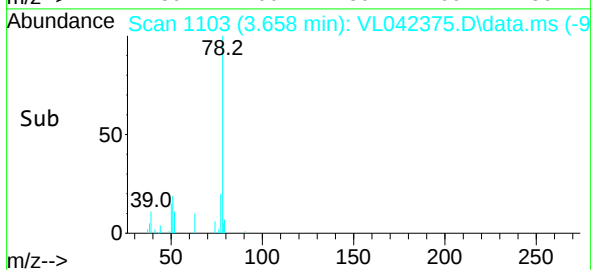
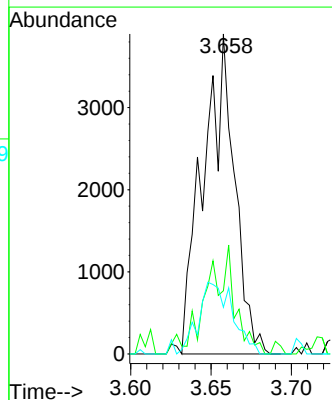
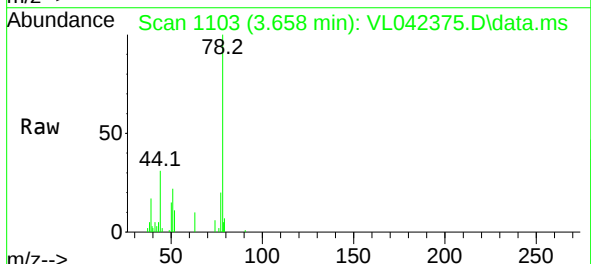
Manual Integrations
APPROVED

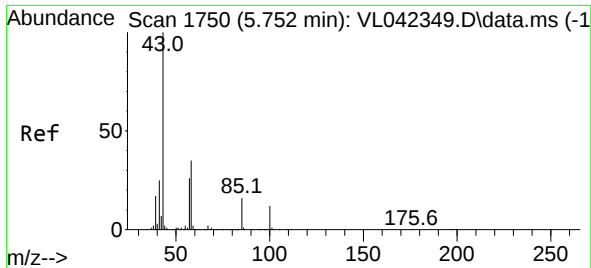
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 0.168 ppbv m
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

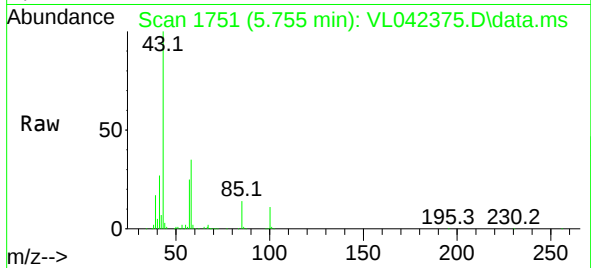
Tgt Ion: 78 Resp: 5293
Ion Ratio Lower Upper
78 100
77 19.8 17.4 26.0
50 14.6 15.5 23.3#





#50
4-Methyl-2-Pentanone
Concen: 4.003 ppbv
RT: 5.755 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

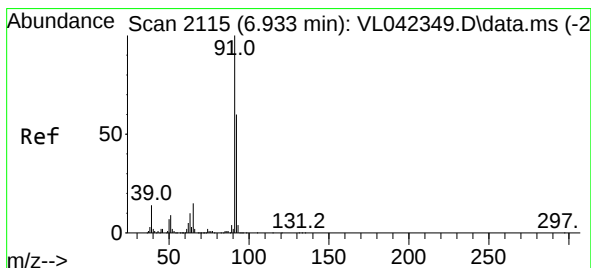
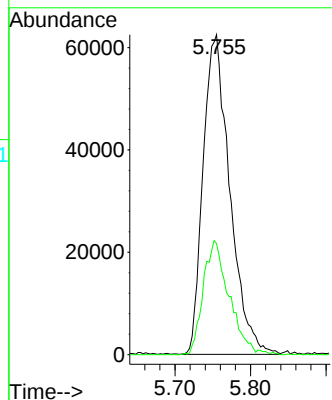
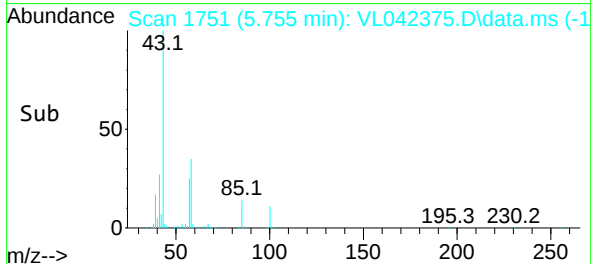
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL



Tgt Ion: 43 Resp: 153250
Ion Ratio Lower Upper
43 100
58 34.9 28.6 43.0

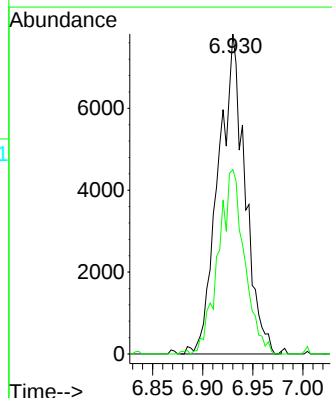
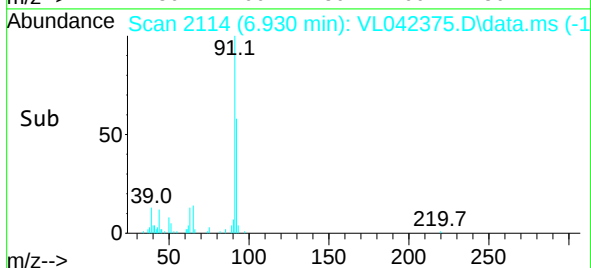
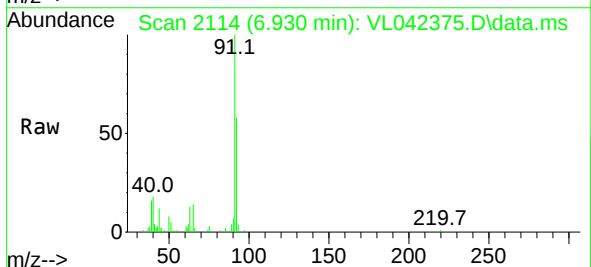
Manual Integrations
APPROVED

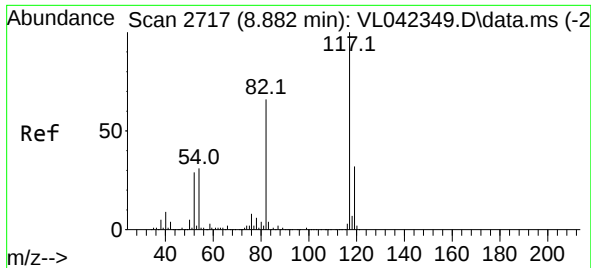
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#53
Toluene
Concen: 0.382 ppbv m
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

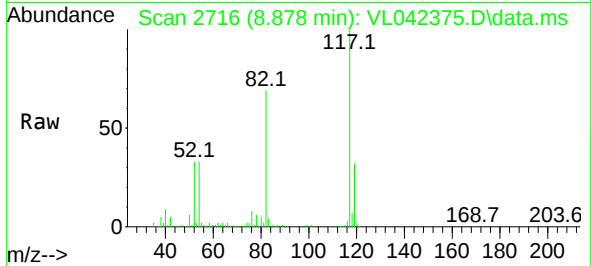
Tgt Ion: 91 Resp: 14415
Ion Ratio Lower Upper
91 100
92 56.7 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

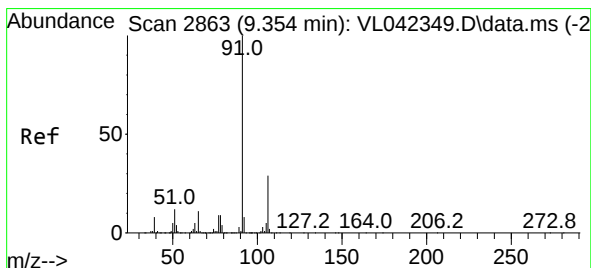
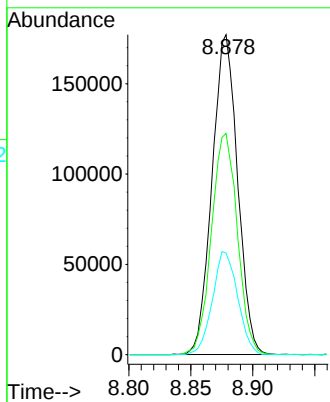
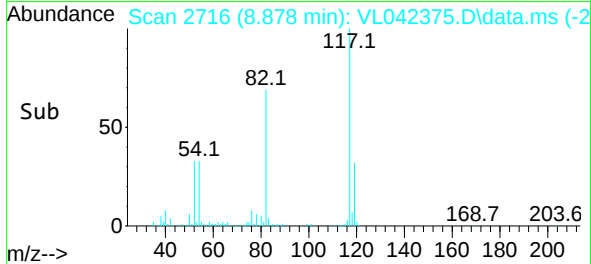
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL



Tgt Ion:117 Resp: 25384
Ion Ratio Lower Upper
117 100
82 70.3 57.8 86.6
119 32.0 25.2 37.8

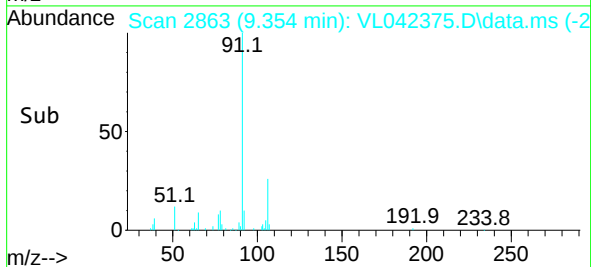
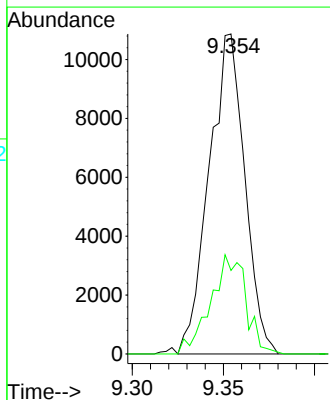
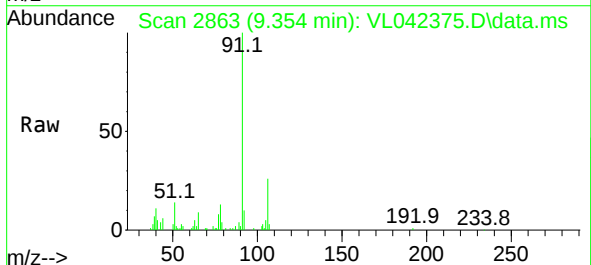
Manual Integrations
APPROVED

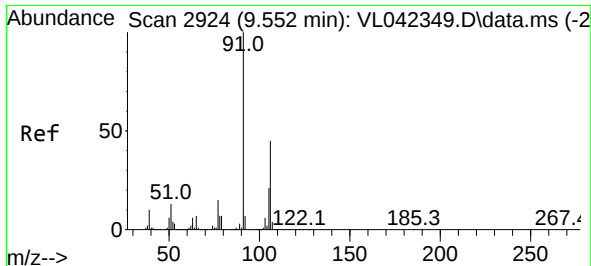
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58
Ethyl Benzene
Concen: 0.293 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 91 Resp: 14757
Ion Ratio Lower Upper
91 100
106 26.1 23.0 34.4





#59

m/p-Xylene

Concen: 2.090 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.023 min

Lab File: VL042375.D

Acq: 18 Apr 2025 00:59

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-3-3252025DL

Tgt Ion: 91 Resp: 8468

Ion Ratio Lower Upper

91 100

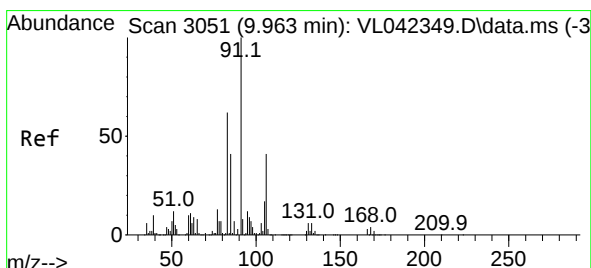
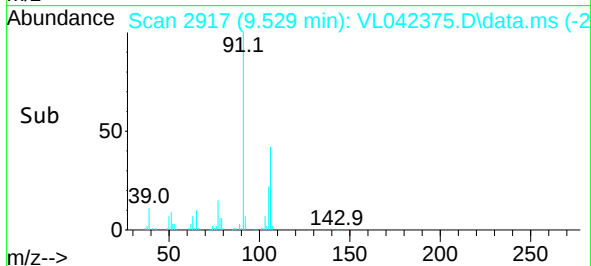
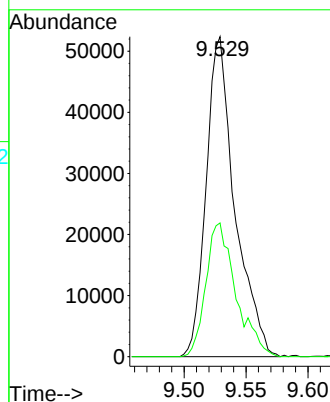
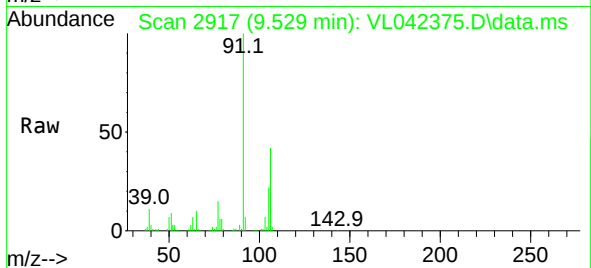
106 43.6 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 0.699 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042375.D

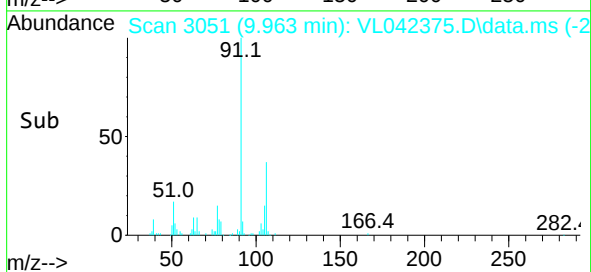
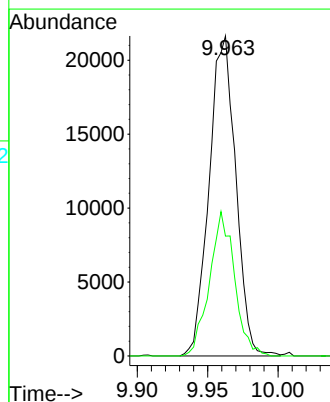
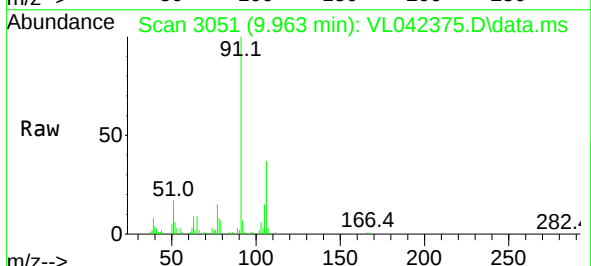
Acq: 18 Apr 2025 00:59

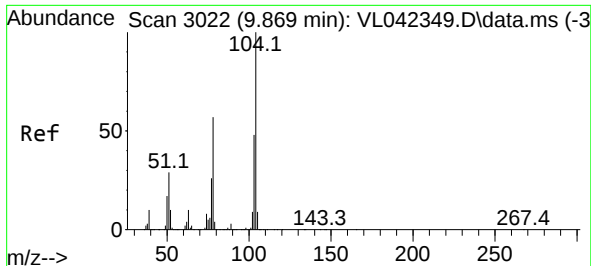
Tgt Ion: 91 Resp: 28511

Ion Ratio Lower Upper

91 100

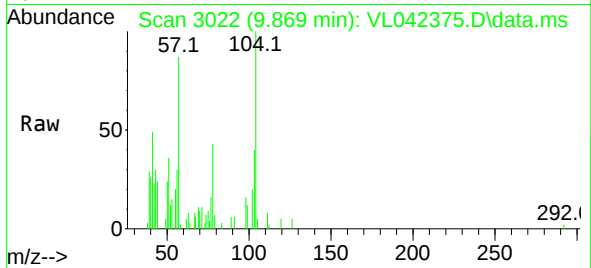
106 42.5 21.1 63.4





#61
Styrene
Concen: 0.207 ppbv m
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

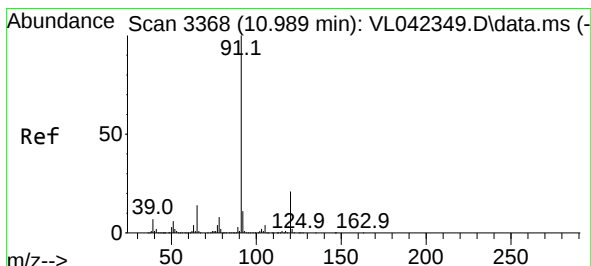
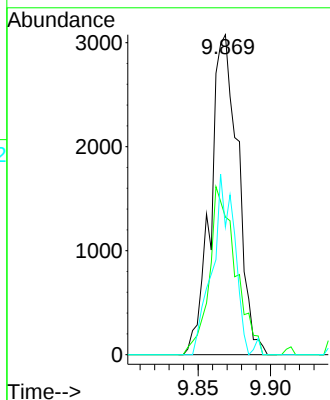
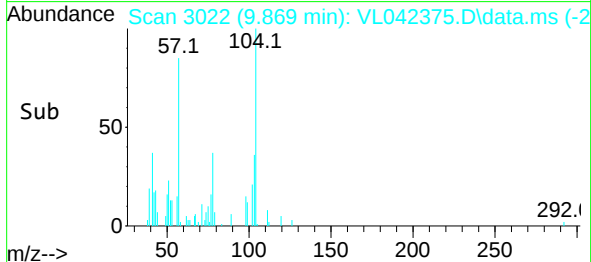
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL



Tgt Ion:104 Resp: 4030
Ion Ratio Lower Upper
104 100
78 50.5 44.6 66.8
103 46.5 37.4 56.0

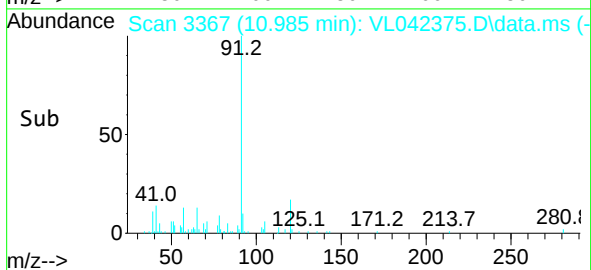
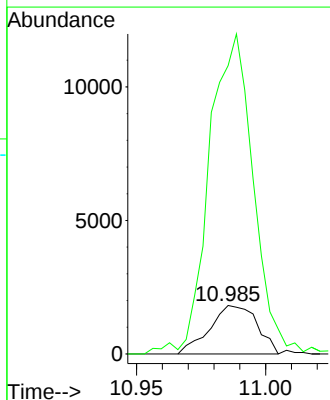
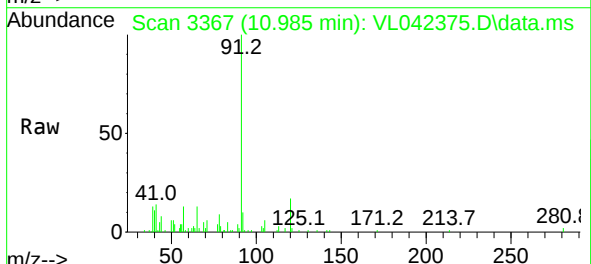
Manual Integrations
APPROVED

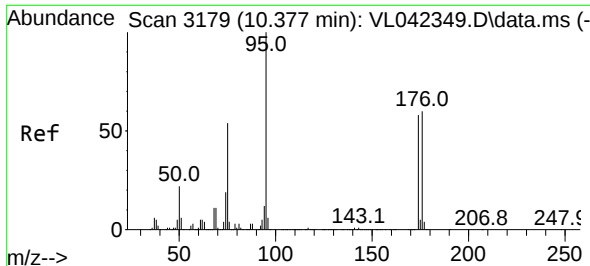
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#64
n-propylbenzene
Concen: 0.154 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

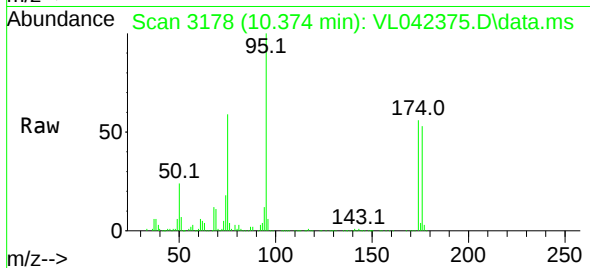
Tgt Ion:120 Resp: 2319
Ion Ratio Lower Upper
120 100
91 620.8 392.4 588.6#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.175 ppbv
RT: 10.374 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

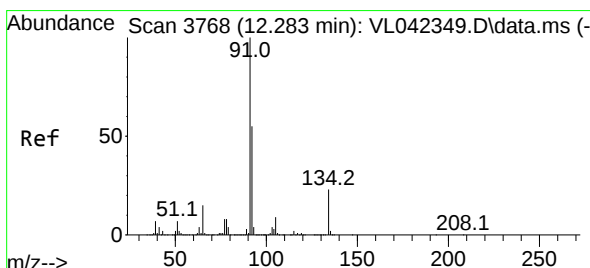
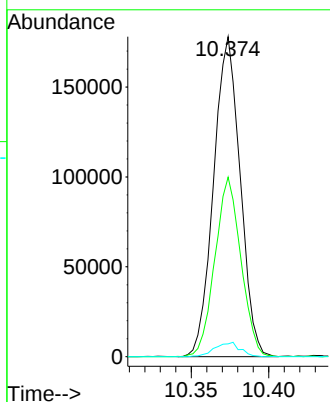
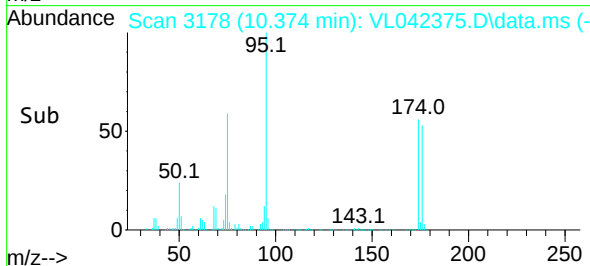
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL



Tgt Ion: 95 Resp: 212240
Ion Ratio Lower Upper
95 100
174 54.8 48.5 72.7
175 4.3 3.7 5.5

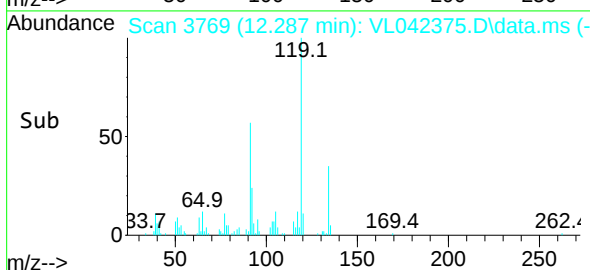
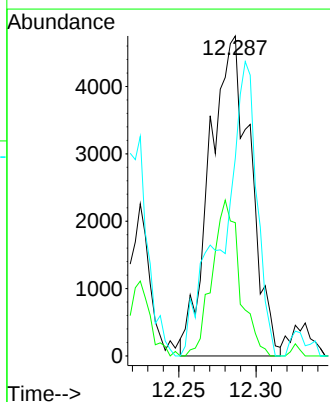
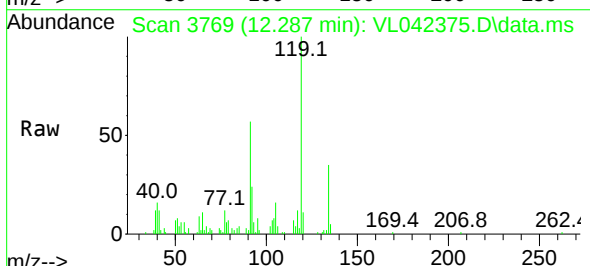
Manual Integrations
APPROVED

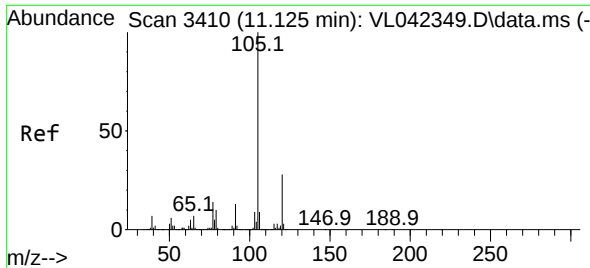
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#70
n-Butylbenzene
Concen: 0.125 ppbv m
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

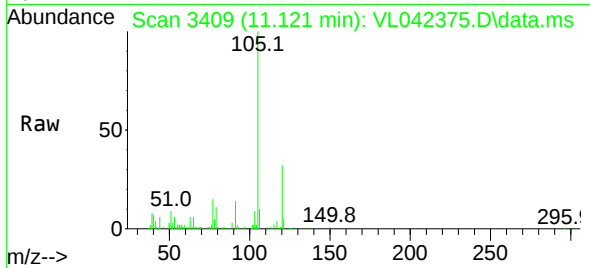
Tgt Ion: 91 Resp: 8652
Ion Ratio Lower Upper
91 100
92 34.0 44.2 66.4#
134 0.0 18.2 27.4#





#72
4-Ethyltoluene
Concen: 0.347 ppbv
RT: 11.121 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

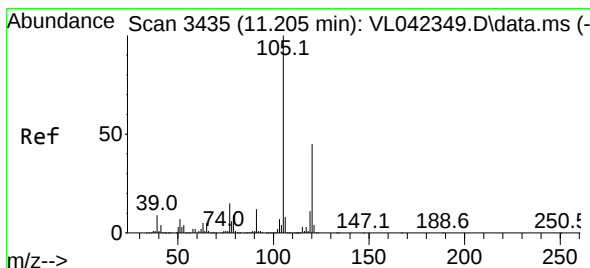
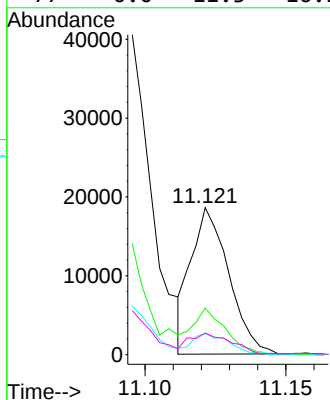
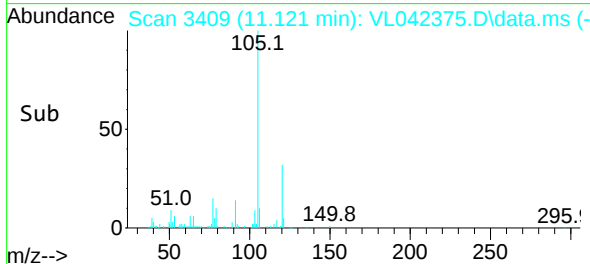
Instrument : MSVOA_L
ClientSampleId : IA-B1-3-3252025DL



Tgt Ion:105 Resp: 1731
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8
91 0.0 10.4 15.6
77 0.0 11.3 16.9

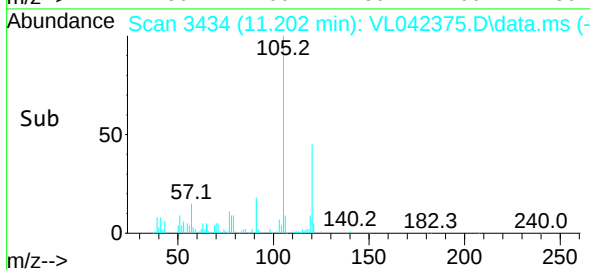
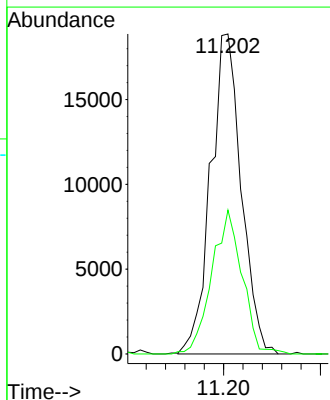
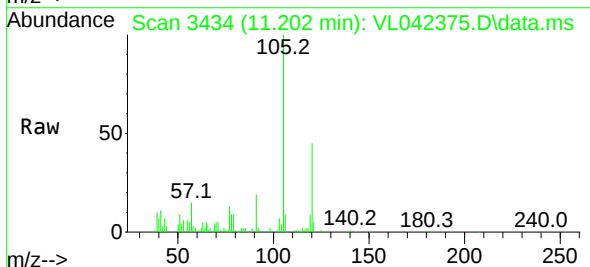
Manual Integrations
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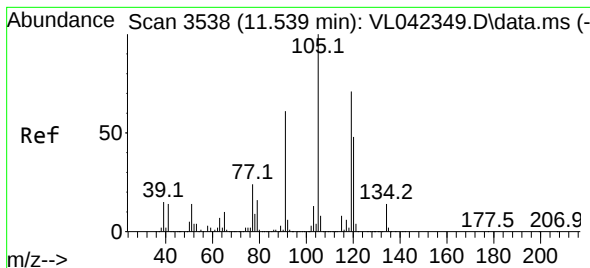
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.470 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:105 Resp: 20692
Ion Ratio Lower Upper
105 100
120 44.3 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 1.420 ppbv

RT: 11.536 min Scan# 3538

Delta R.T. -0.003 min

Lab File: VL042375.D

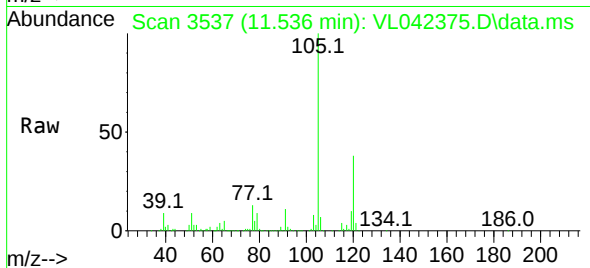
Acq: 18 Apr 2025 00:59

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-3-3252025DL

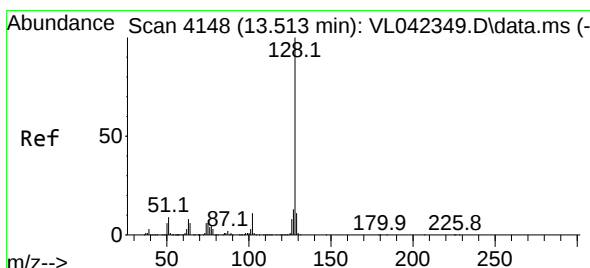
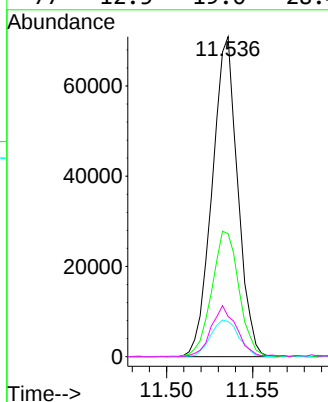
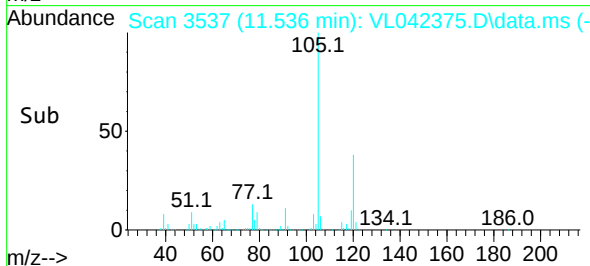


Tgt Ion:	105	Resp:	73024
Ion Ratio	Lower	Upper	
105	100		
120	38.5	38.1	57.1
91	10.9	48.8	73.2
77	12.5	19.0	28.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79

Naphthalene

Concen: 0.100 ppbv

RT: 13.510 min Scan# 4147

Delta R.T. -0.003 min

Lab File: VL042375.D

Acq: 18 Apr 2025 00:59

Tgt Ion:	128	Resp:	6160
Ion Ratio	Lower	Upper	
128	100		
127	14.0	10.6	15.8
129	8.4	8.6	12.8

