

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022725\
 Data File : VL042071.D
 Acq On : 27 Feb 2025 13:28
 Operator : SY/MD
 Sample : Q1450-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/28/2025
 Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 00:26:20 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	2.803	49	173081	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.988	114	401512	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.907	117	350721	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	281443	10.431	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	2457	0.137	ppbv	90
9) Propene	1.489	41	32081	3.130	ppbv	93
10) Heptane	5.017	43	11338m	0.355	ppbv	
13) Ethanol	1.732	45	2111m	3.245	ppbv	
15) Acetone	1.845	43	66334	4.340	ppbv	97
16) 1,3-Butadiene	1.612	39	11038	1.552	ppbv #	49
19) Isopropyl Alcohol	1.897	45	2467m	0.281	ppbv	
20) Methylene Chloride	2.078	84	1794	0.310	ppbv #	68
26) Hexane	2.845	57	61438	2.484	ppbv #	35
34) 2-Butanone	2.580	43	36143	1.155	ppbv	97
36) Benzene	3.680	78	8858	0.211	ppbv #	82
41) Tetrahydrofuran	3.088	42	10152	0.549	ppbv	95
51) 2-Hexanone	7.474	43	46944	1.686	ppbv #	78
52) Tetrachloroethene	8.250	164	23966	1.666	ppbv	90
53) Toluene	6.969	91	39450	0.840	ppbv	98
58) Ethyl Benzene	9.377	91	17589	0.272	ppbv	92
59) m/p-Xylene	9.555	91	33992m	0.661	ppbv	
60) o-Xylene	9.985	91	16437	0.318	ppbv	99
64) n-propylbenzene	11.011	120	3446	0.170	ppbv #	54
72) 4-Ethyltoluene	11.147	105	9326	0.148	ppbv #	84
73) 1,3,5-Trimethylbenzene	11.222	105	10540	0.193	ppbv #	81
74) 1,2,4-Trimethylbenzene	11.552	105	23451	0.381	ppbv #	58

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

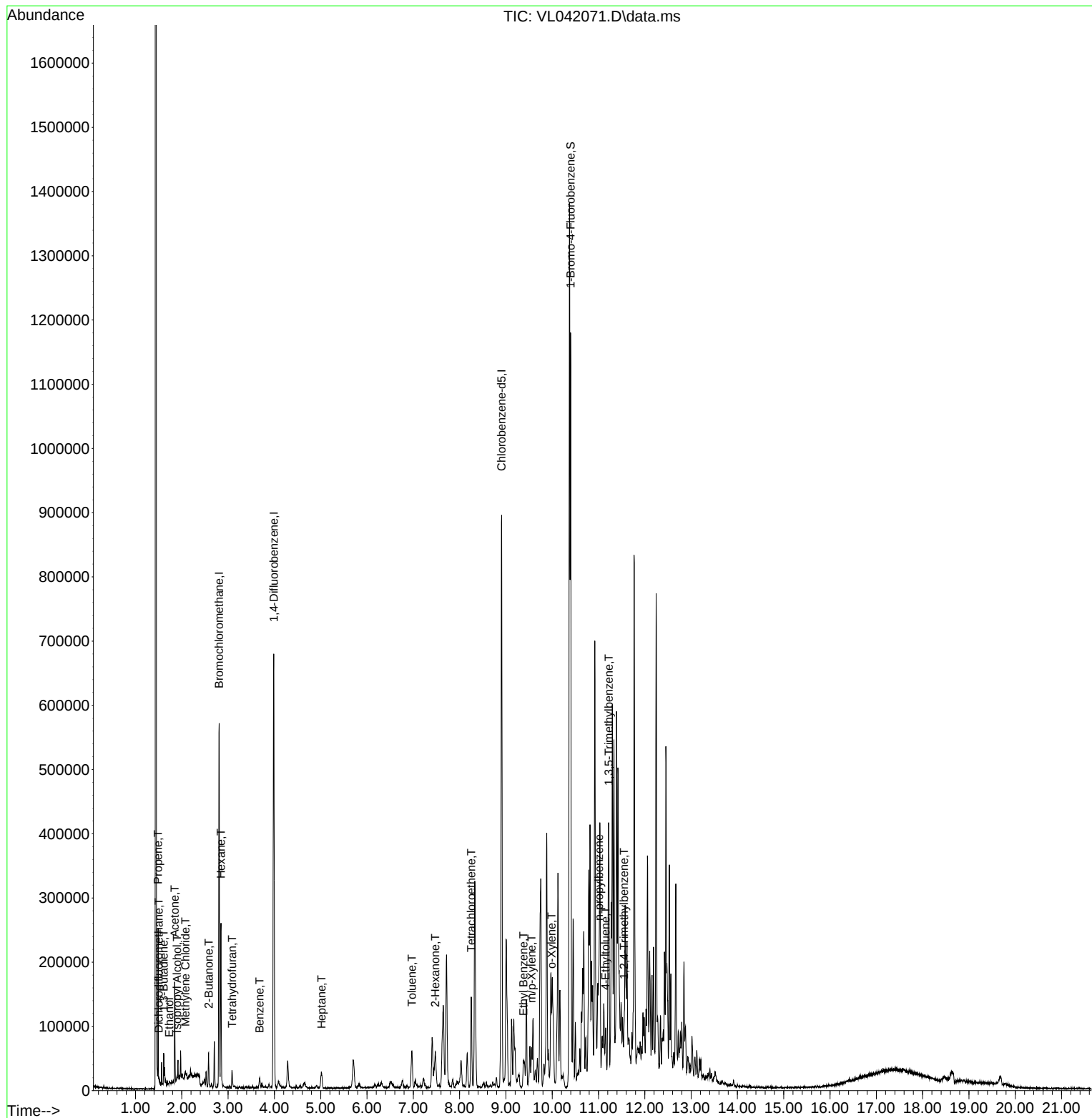
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022725\
Data File : VL042071.D
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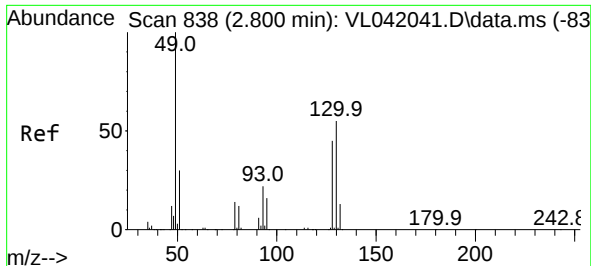
Instrument :
MSVOA_L
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Quant Time: Feb 28 00:26:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

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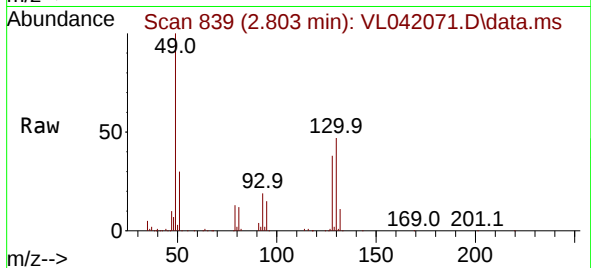
Reviewed By : Semsettin Yesilyurt 02/28/2025
Supervised By : Mahesh Dadoda 02/28/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28

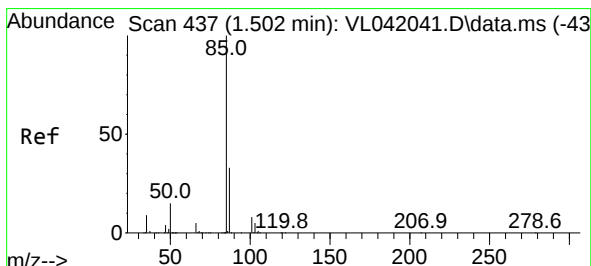
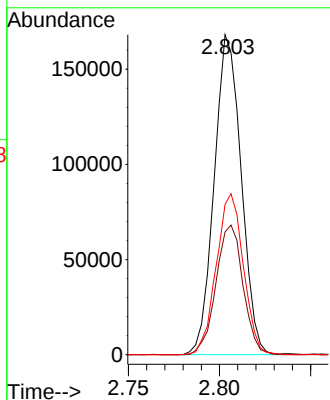
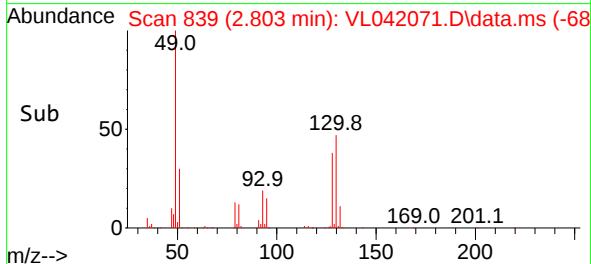
Instrument :
MSVOA_L
ClientSampleId :
SV1



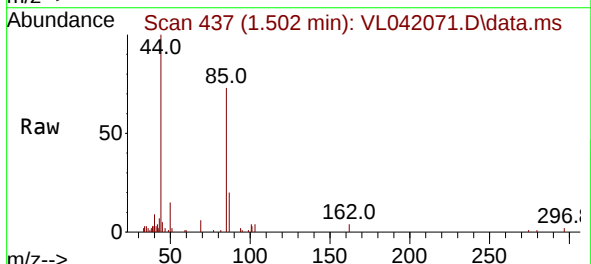
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Ion Ratio Lower Upper
49 100
128 40.6 21.6 64.8
130 50.6 27.8 83.4

Manual Integrations
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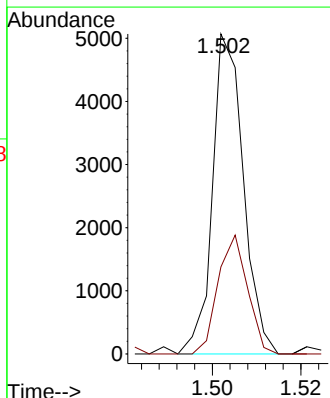
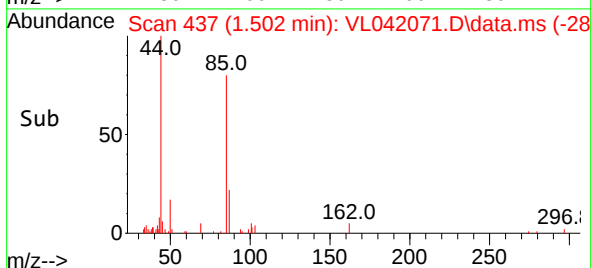
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Supervised By :Mahesh Dadoda 02/28/2025

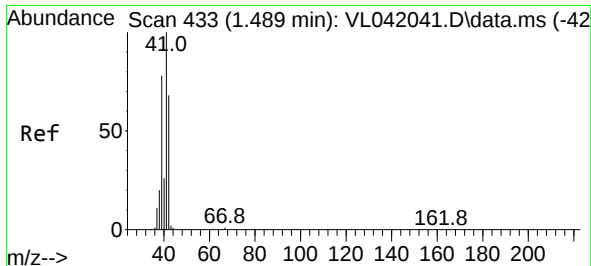


#2
Dichlorodifluoromethane
Concen: 0.137 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28



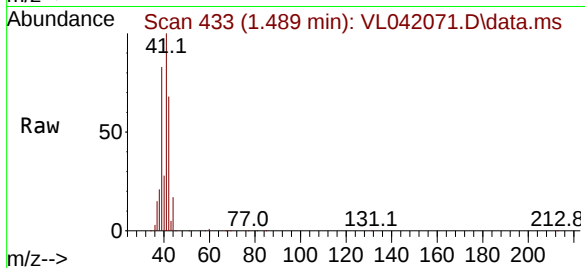
Tgt Ion: 85 Resp: 2457
Ion Ratio Lower Upper
85 100
87 27.2 26.4 39.6





#9
 Propene
 Concen: 3.130 ppbv
 RT: 1.489 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042071.D
 Acq: 27 Feb 2025 13:28

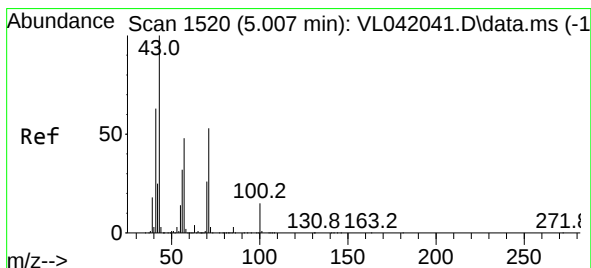
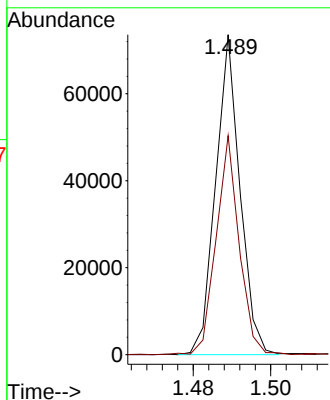
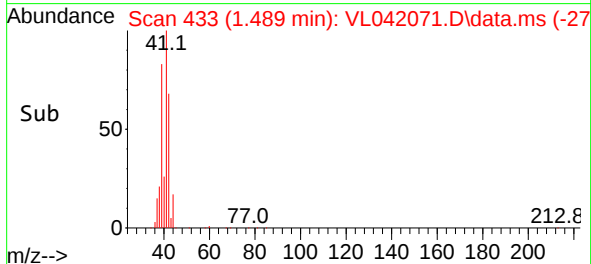
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



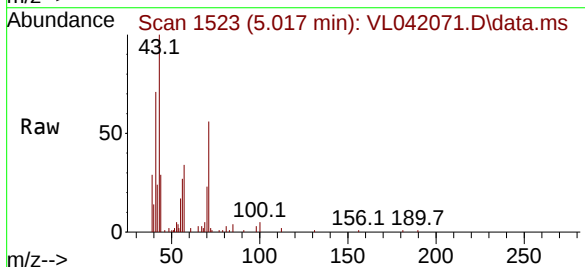
Tgt Ion: 41 Resp: 3208
 Ion Ratio Lower Upper
 41 100
 42 64.3 55.8 83.6

Manual Integrations
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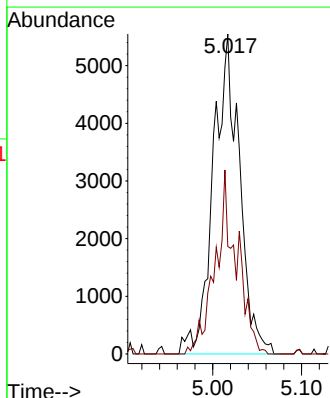
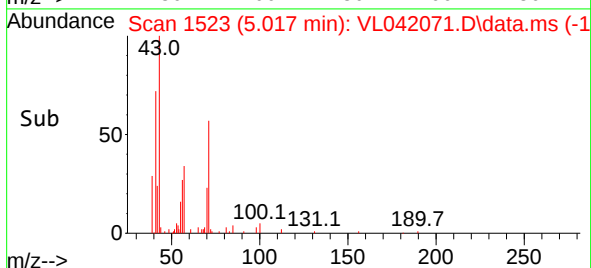
Reviewed By :Semsettin Yesilyurt 02/28/2025
 Supervised By :Mahesh Dadoda 02/28/2025

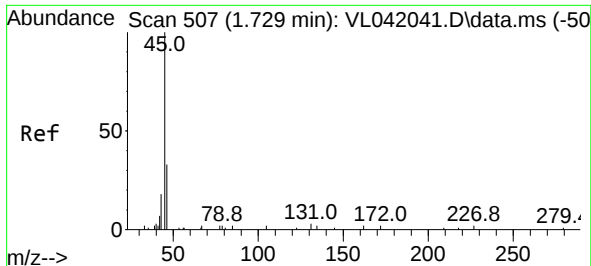


#10
 Heptane
 Concen: 0.355 ppbv m
 RT: 5.017 min Scan# 1523
 Delta R.T. 0.010 min
 Lab File: VL042071.D
 Acq: 27 Feb 2025 13:28



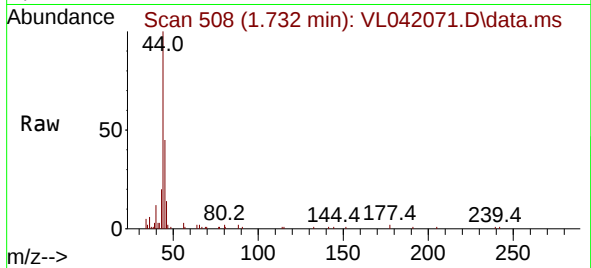
Tgt Ion: 43 Resp: 11338
 Ion Ratio Lower Upper
 43 100
 57 47.1 39.4 59.0





#13
Ethanol
Concen: 3.245 ppbv m
RT: 1.732 min Scan# 507
Delta R.T. 0.003 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28

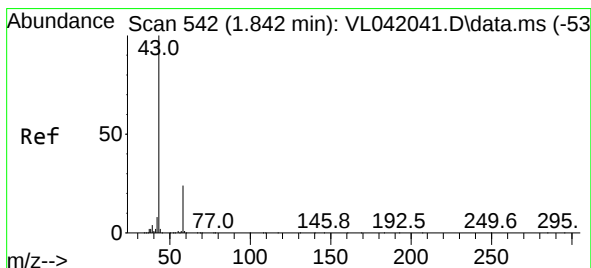
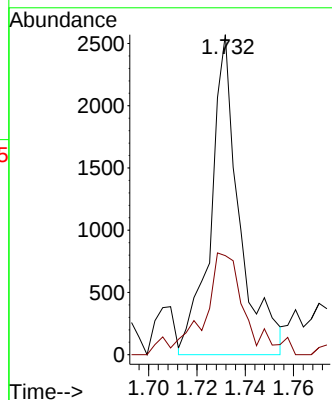
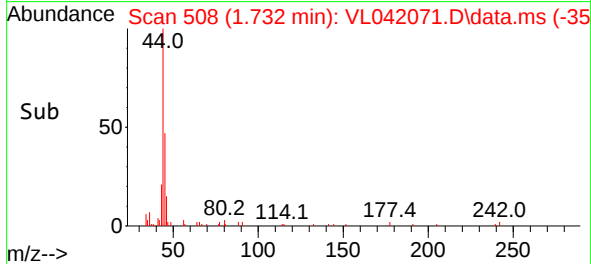
Instrument :
MSVOA_L
ClientSampleId :
SV1



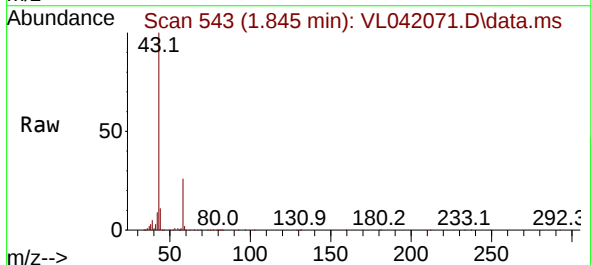
Tgt Ion: 45 Resp: 211
Ion Ratio Lower Upper
45 100
46 0.0 17.1 68.3

Manual Integrations
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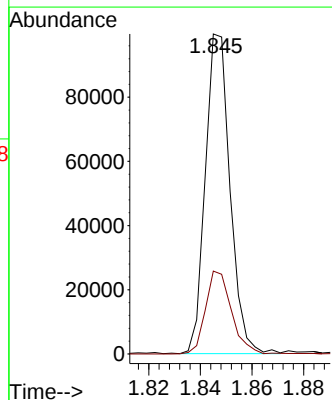
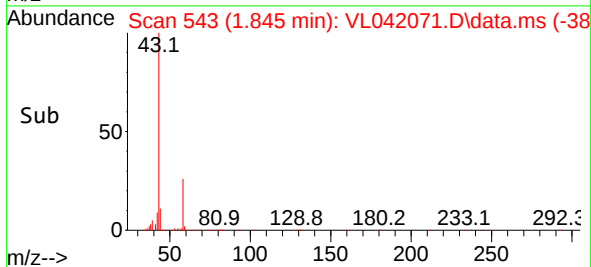
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

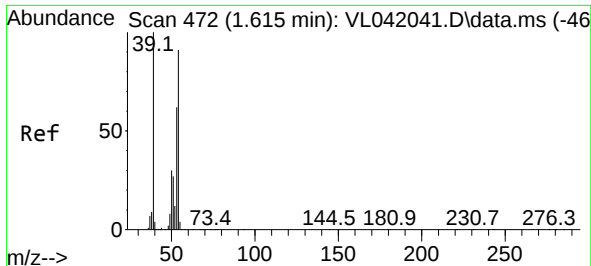


#15
Acetone
Concen: 4.340 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.003 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28



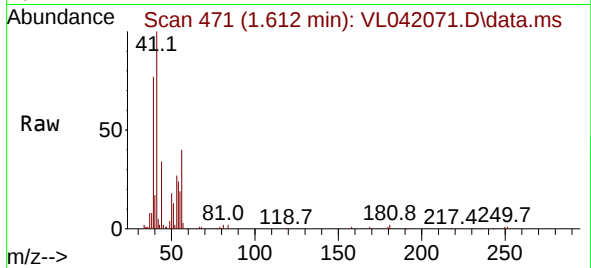
Tgt Ion: 43 Resp: 66334
Ion Ratio Lower Upper
43 100
58 27.4 20.7 31.1





#16
1,3-Butadiene
Concen: 1.552 ppbv
RT: 1.612 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28

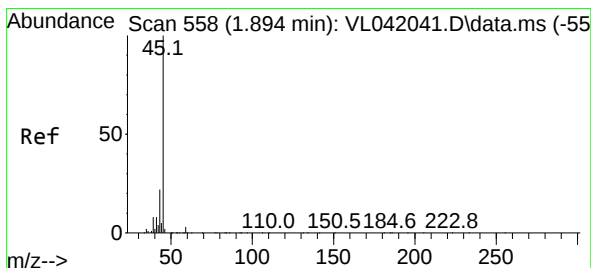
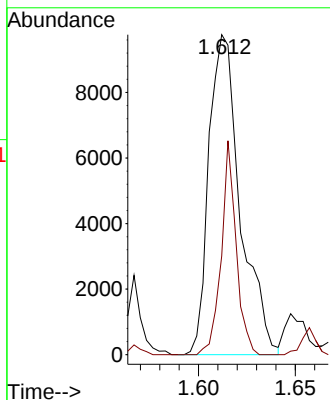
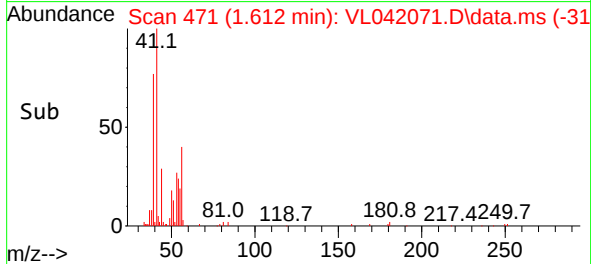
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 39 Resp: 11038
Ion Ratio Lower Upper
39 100
54 31.6 59.6 89.4

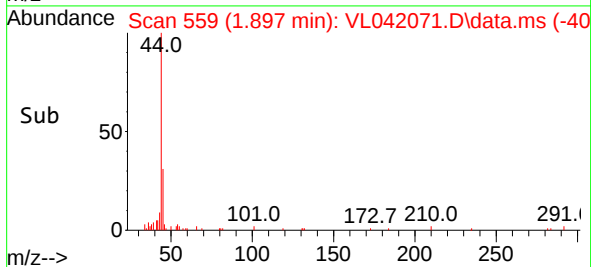
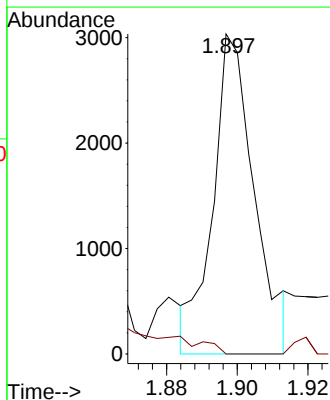
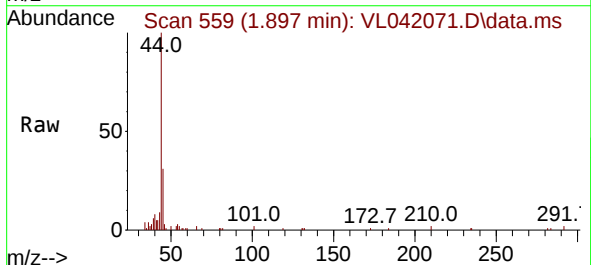
Manual Integrations
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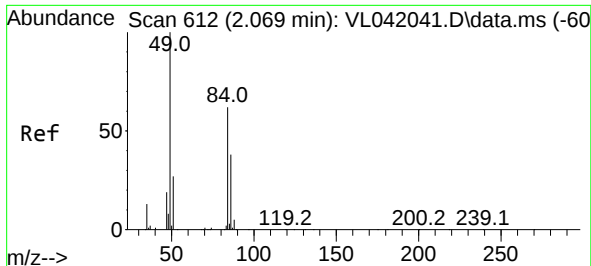
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#19
Isopropyl Alcohol
Concen: 0.281 ppbv m
RT: 1.897 min Scan# 559
Delta R.T. 0.003 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28

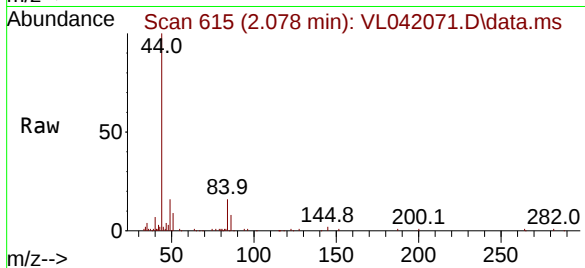
Tgt Ion: 45 Resp: 2467
Ion Ratio Lower Upper
45 100
58 0.0 35.3 52.9





#20
Methylene Chloride
Concen: 0.310 ppbv
RT: 2.078 min Scan# 612
Delta R.T. 0.010 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28

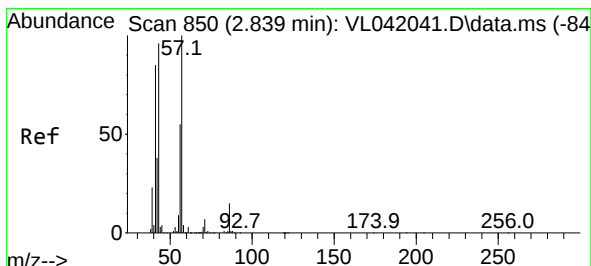
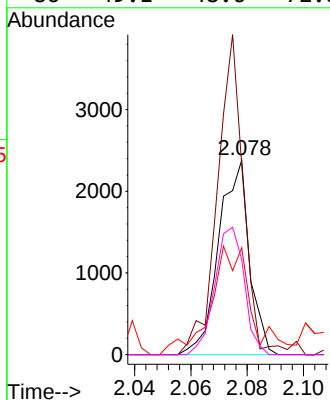
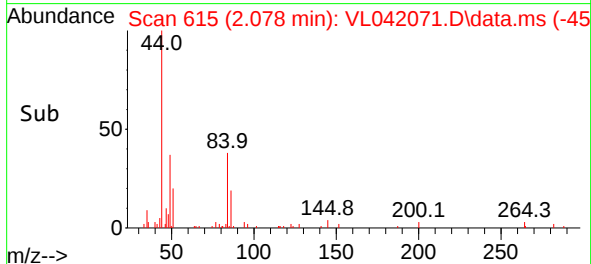
Instrument :
MSVOA_L
ClientSampleId :
SV1



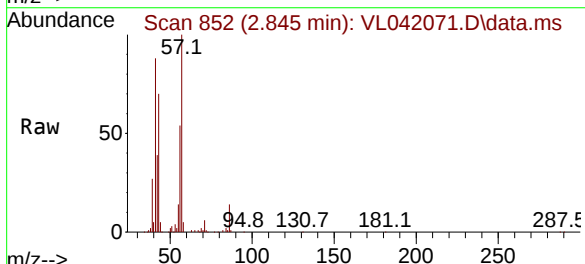
Tgt Ion: 84 Resp: 1794
Ion Ratio Lower Upper
84 100
49 99.7 130.0 195.0
51 47.2 37.4 56.0
86 49.1 48.6 72.8

Manual Integrations
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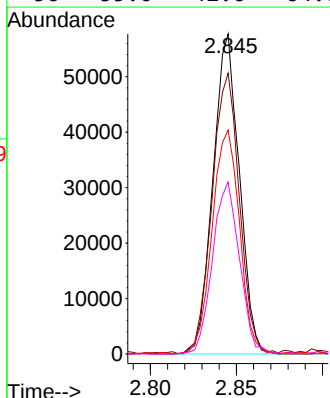
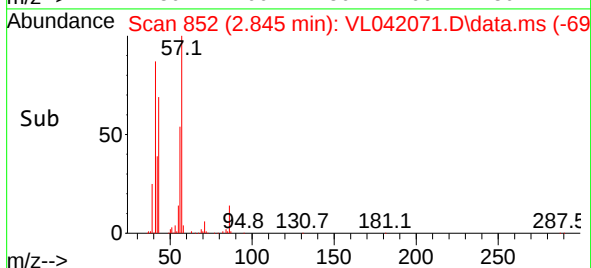
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

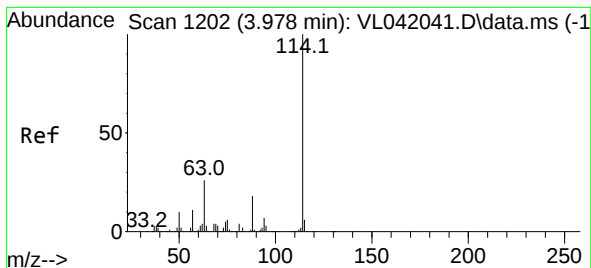


#26
Hexane
Concen: 2.484 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.006 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28



Tgt Ion: 57 Resp: 61438
Ion Ratio Lower Upper
57 100
41 90.2 70.6 106.0
43 72.8 199.4 299.0#
56 55.0 42.6 64.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.988 min Scan# 114

Delta R.T. 0.010 min

Lab File: VL042071.D

Acq: 27 Feb 2025 13:28

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:114 Resp: 40151

Ion Ratio Lower Upper

114 100

63 26.7 20.1 30.1

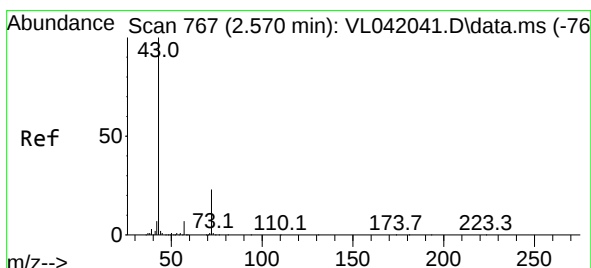
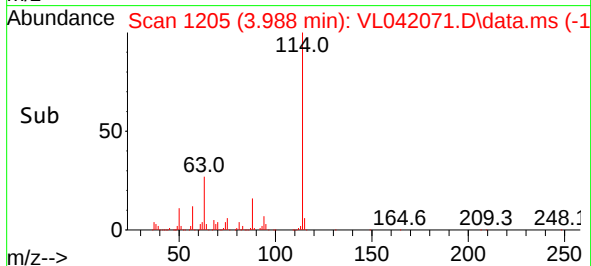
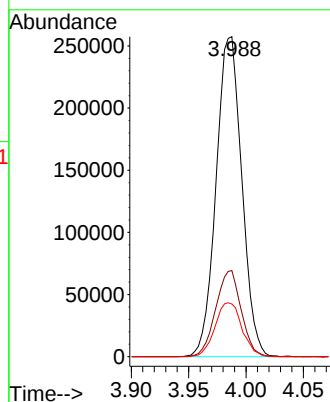
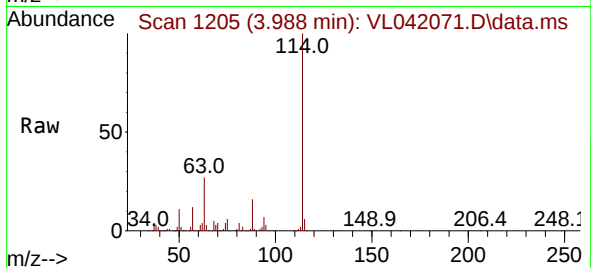
88 17.6 14.3 21.5

Manual Integrations

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#34

2-Butanone

Concen: 1.155 ppbv

RT: 2.580 min Scan# 770

Delta R.T. 0.009 min

Lab File: VL042071.D

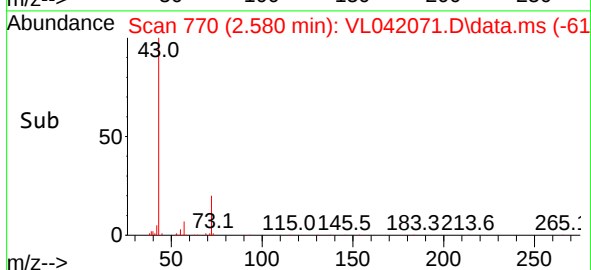
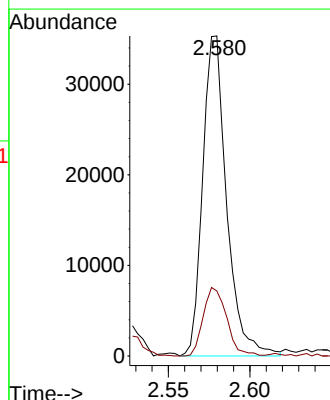
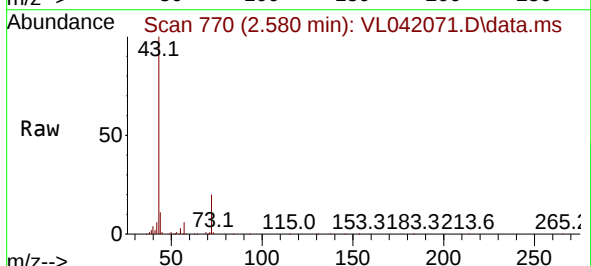
Acq: 27 Feb 2025 13:28

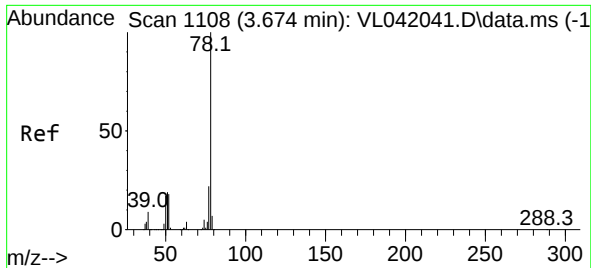
Tgt Ion: 43 Resp: 36143

Ion Ratio Lower Upper

43 100

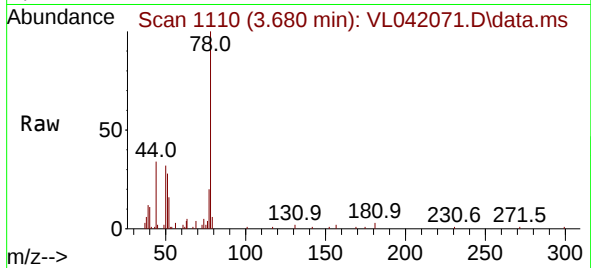
72 21.6 18.5 27.7





#36
Benzene
Concen: 0.211 ppbv
RT: 3.680 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28

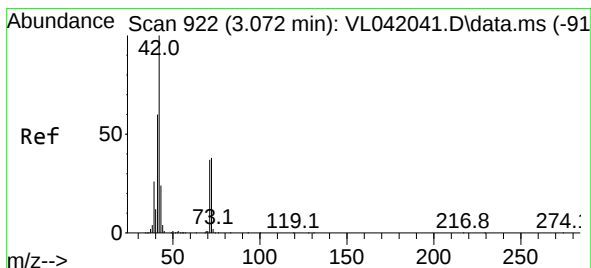
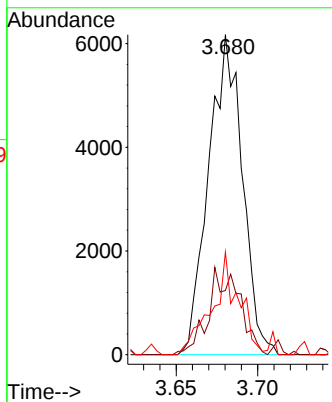
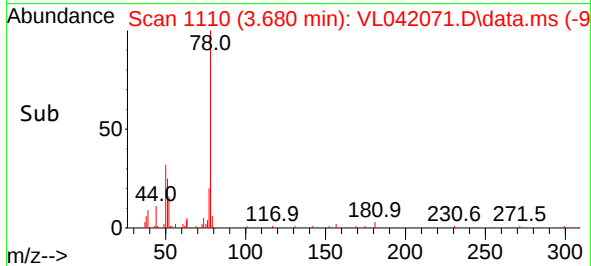
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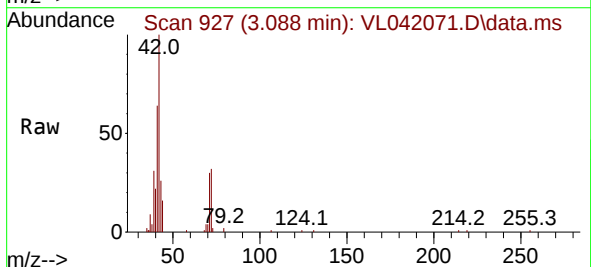
Tgt Ion: 78 Resp: 885
Ion Ratio Lower Upper
78 100
77 19.1 17.7 26.5
50 32.1 13.9 20.9

Manual Integrations
APPROVED

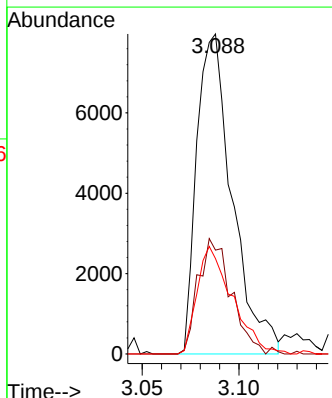
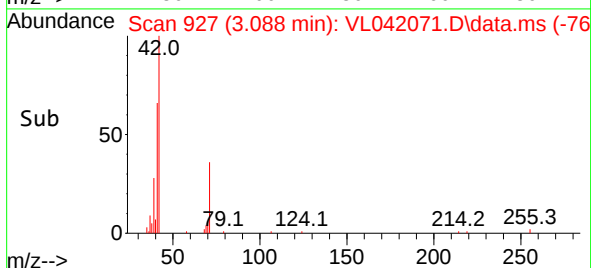
Reviewed By :Semsettin Yesilyurt 02/28/2025
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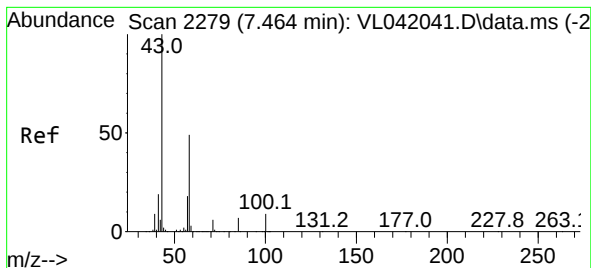


#41
Tetrahydrofuran
Concen: 0.549 ppbv
RT: 3.088 min Scan# 927
Delta R.T. 0.016 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28



Tgt Ion: 42 Resp: 10152
Ion Ratio Lower Upper
42 100
72 33.9 30.2 45.2
71 33.6 28.2 42.4





#51

2-Hexanone

Concen: 1.686 ppbv

RT: 7.474 min Scan# 21

Delta R.T. 0.009 min

Lab File: VL042071.D

Acq: 27 Feb 2025 13:28

Instrument :

MSVOA_L

ClientSampleId :

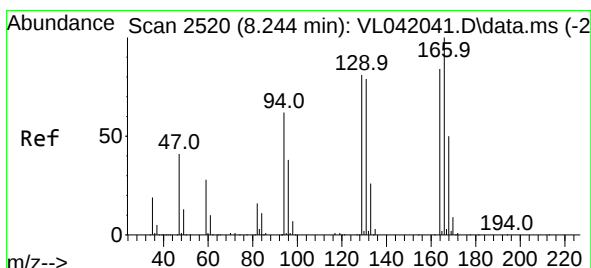
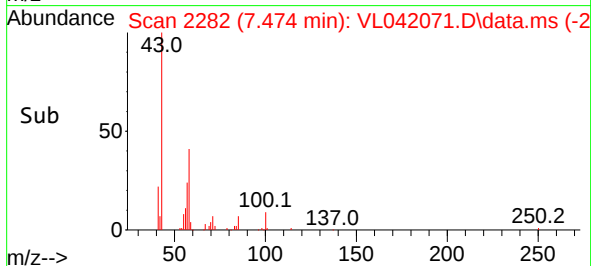
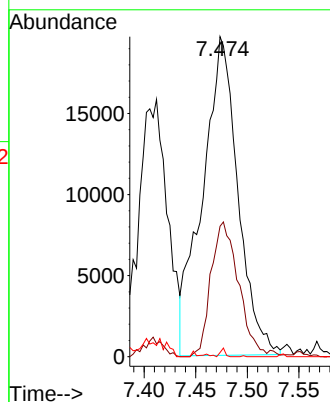
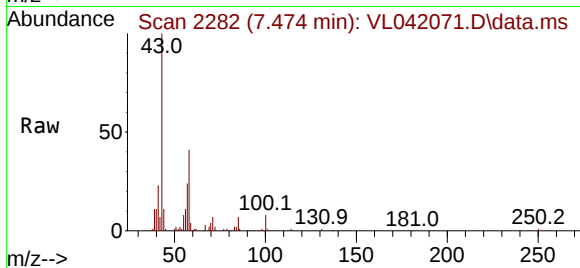
SV1

Tgt Ion:	43	Resp:	4694
Ion Ratio	Lower	Upper	
43	100		
58	33.8	39.0	58.6
98	0.4	0.1	0.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#52

Tetrachloroethene

Concen: 1.666 ppbv

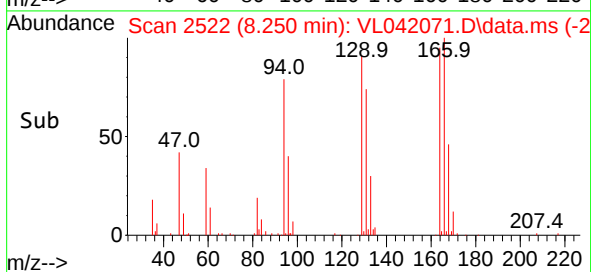
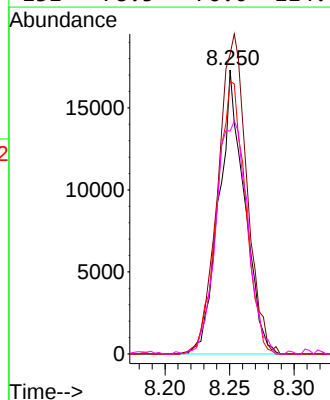
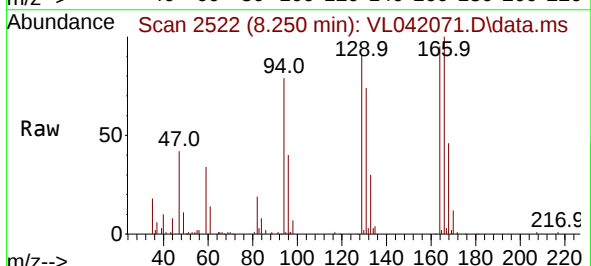
RT: 8.250 min Scan# 2522

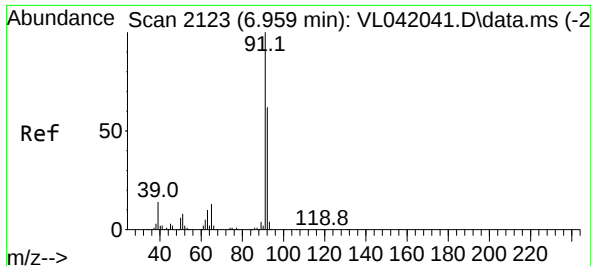
Delta R.T. 0.006 min

Lab File: VL042071.D

Acq: 27 Feb 2025 13:28

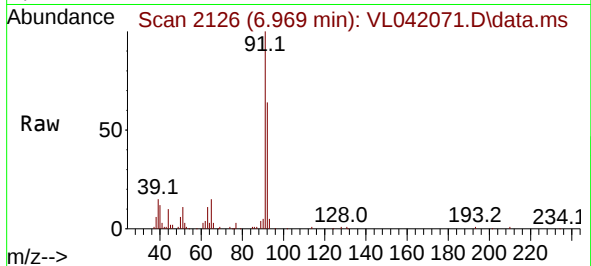
Tgt Ion:	164	Resp:	23966
Ion Ratio	Lower	Upper	
164	100		
166	105.6	95.7	143.5
129	96.0	77.1	115.7
131	78.5	76.0	114.0





#53
Toluene
Concen: 0.840 ppbv
RT: 6.969 min Scan# 2123
Delta R.T. 0.009 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28

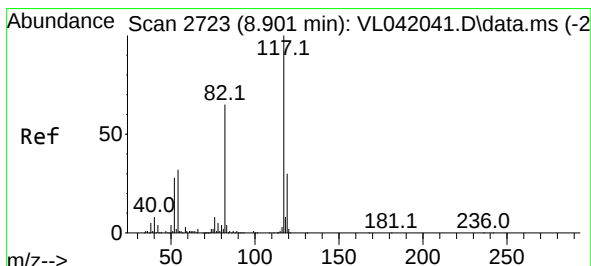
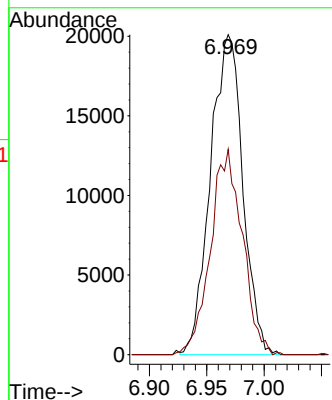
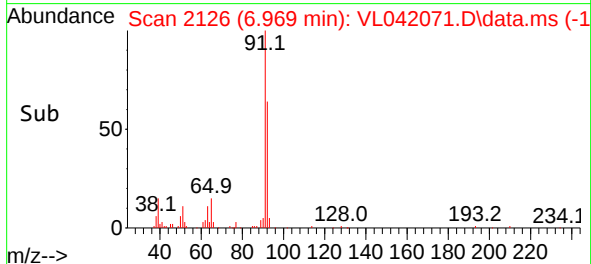
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 91 Resp: 39450
Ion Ratio Lower Upper
91 100
92 63.1 49.0 73.6

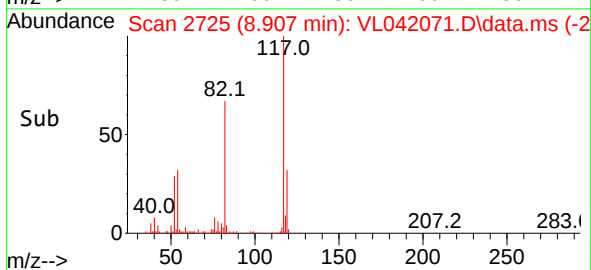
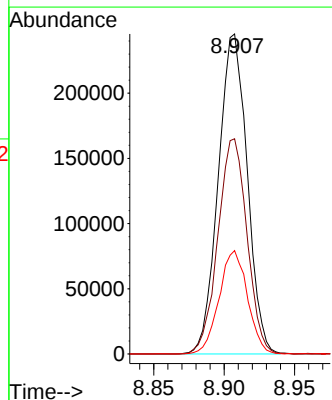
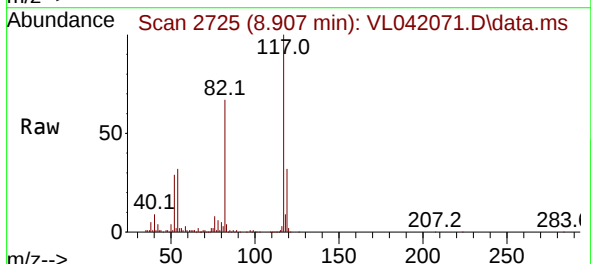
Manual Integrations
APPROVED

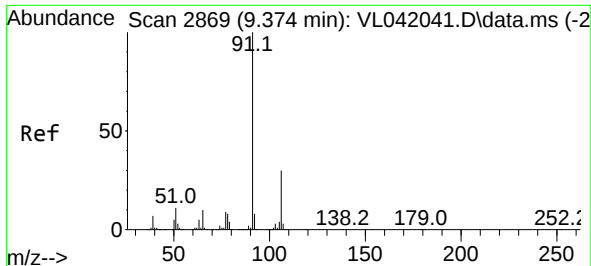
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.907 min Scan# 2725
Delta R.T. 0.006 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28

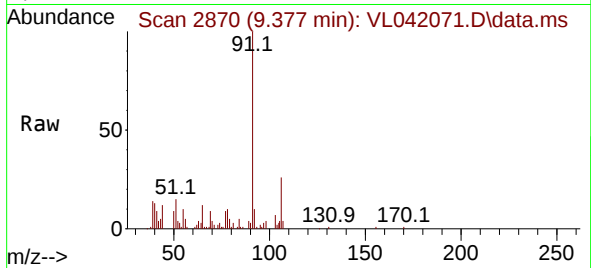
Tgt Ion:117 Resp: 350721
Ion Ratio Lower Upper
117 100
82 67.7 55.0 82.6
119 31.8 25.9 38.9





#58
Ethyl Benzene
Concen: 0.272 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.003 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28

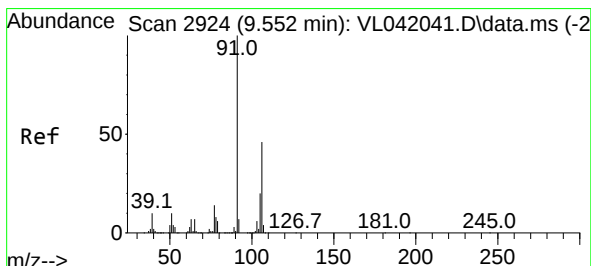
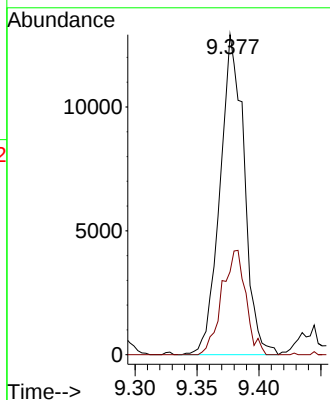
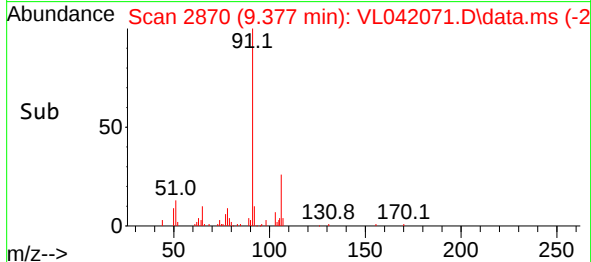
Instrument :
MSVOA_L
ClientSampleId :
SV1



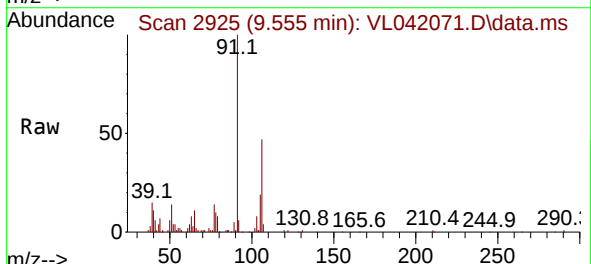
Tgt Ion: 91 Resp: 17589
Ion Ratio Lower Upper
91 100
106 25.9 24.2 36.2

Manual Integrations
APPROVED

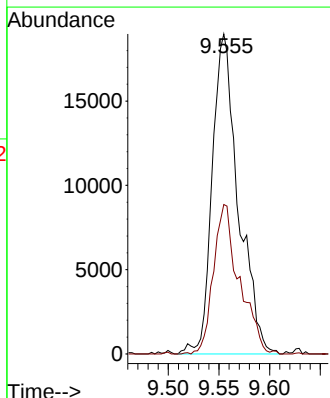
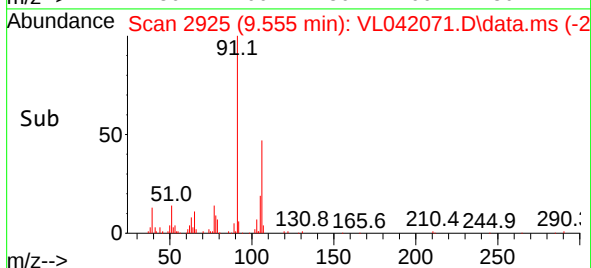
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

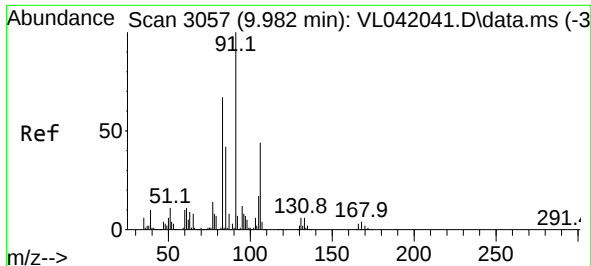


#59
m/p-Xylene
Concen: 0.661 ppbv m
RT: 9.555 min Scan# 2925
Delta R.T. 0.003 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28



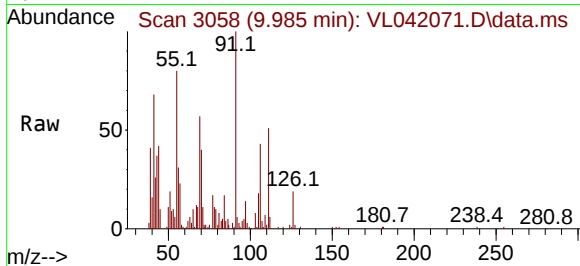
Tgt Ion: 91 Resp: 33992
Ion Ratio Lower Upper
91 100
106 46.6 0.0 0.0#





#60
o-Xylene
Concen: 0.318 ppbv
RT: 9.985 min Scan# 3057
Delta R.T. 0.003 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28

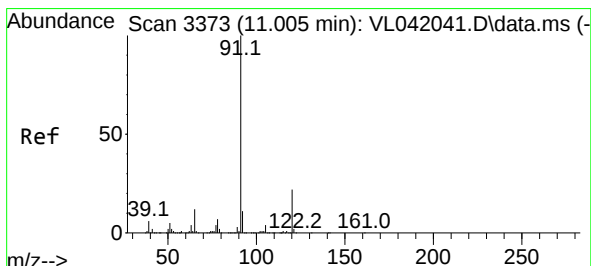
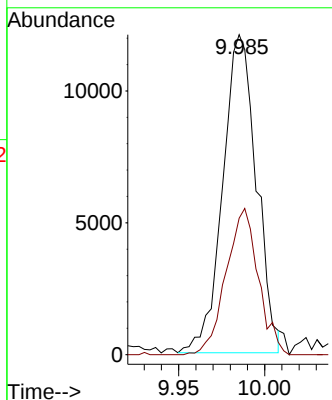
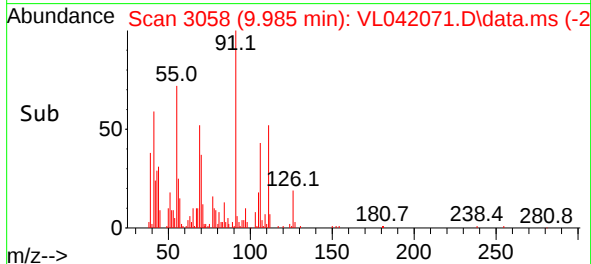
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 91 Resp: 1643
Ion Ratio Lower Upper
91 100
106 44.0 22.3 66.8

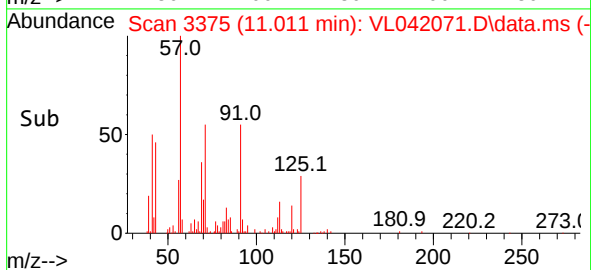
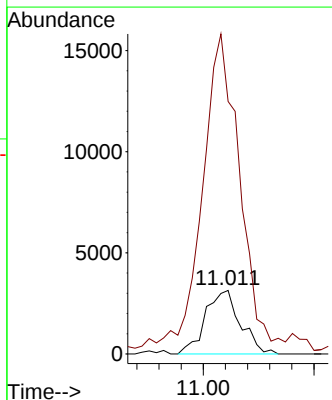
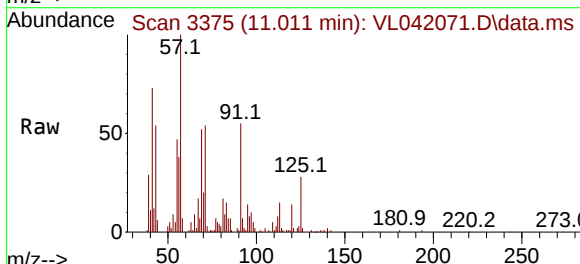
Manual Integrations
APPROVED

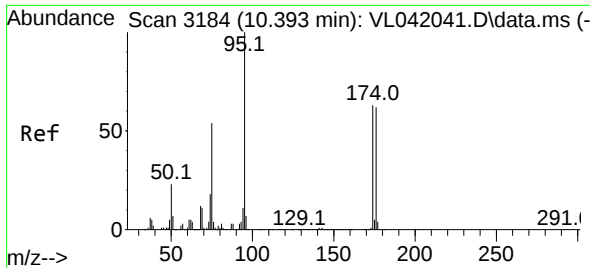
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#64
n-propylbenzene
Concen: 0.170 ppbv
RT: 11.011 min Scan# 3375
Delta R.T. 0.006 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28

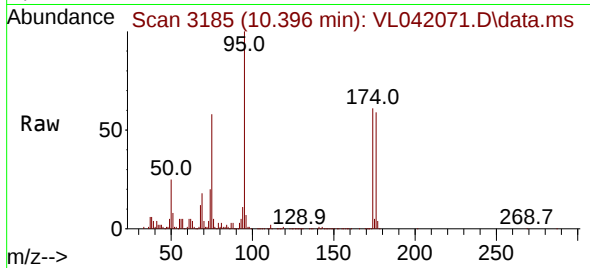
Tgt Ion:120 Resp: 3446
Ion Ratio Lower Upper
120 100
91 583.8 370.6 556.0#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.431 ppbv
RT: 10.396 min Scan# 3184
Delta R.T. 0.003 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28

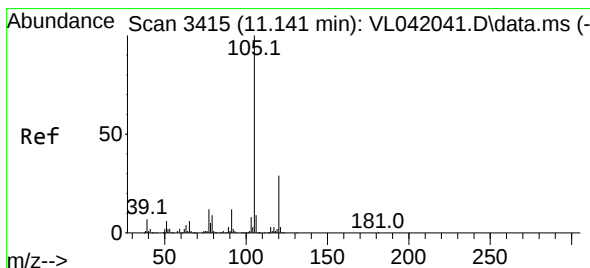
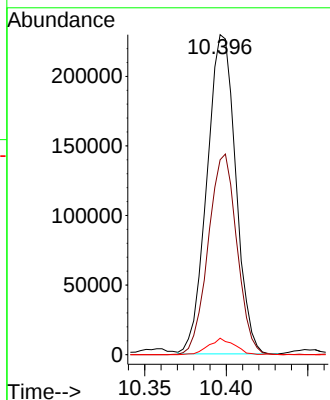
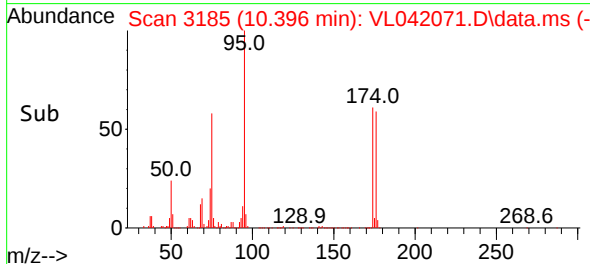
Instrument :
MSVOA_L
ClientSampleId :
SV1



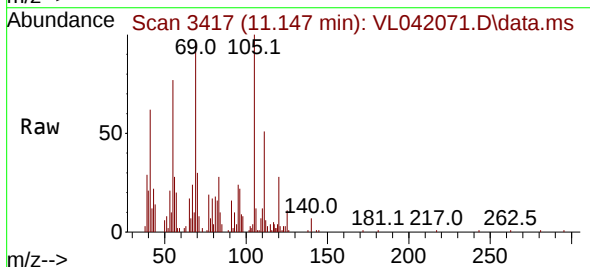
Tgt Ion: 95 Resp: 28144
Ion Ratio Lower Upper
95 100
174 62.6 51.8 77.6
175 4.7 3.9 5.9

Manual Integrations
APPROVED

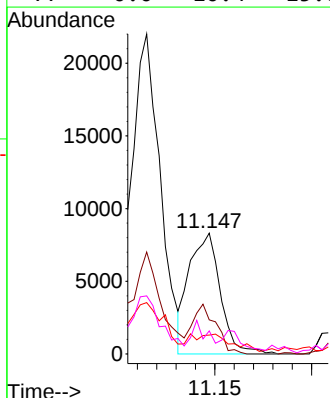
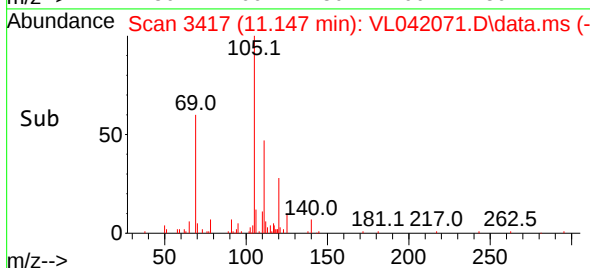
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

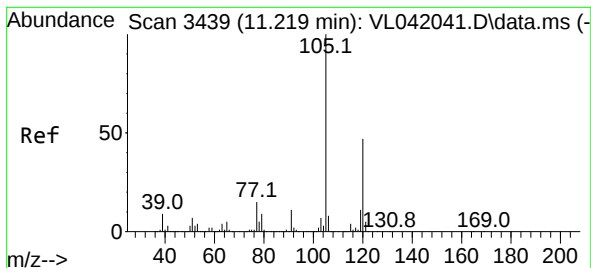


#72
4-Ethyltoluene
Concen: 0.148 ppbv
RT: 11.147 min Scan# 3417
Delta R.T. 0.006 min
Lab File: VL042071.D
Acq: 27 Feb 2025 13:28



Tgt Ion:105 Resp: 9326
Ion Ratio Lower Upper
105 100
120 30.7 24.1 36.1
91 0.0 10.2 15.4#
77 0.0 10.4 15.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.193 ppbv

RT: 11.222 min Scan# 3439

Delta R.T. 0.003 min

Lab File: VL042071.D

Acq: 27 Feb 2025 13:28

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 10540

Ion Ratio Lower Upper

105 100

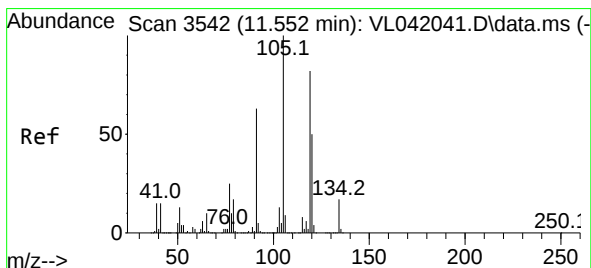
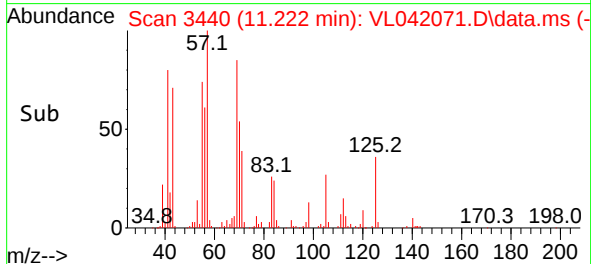
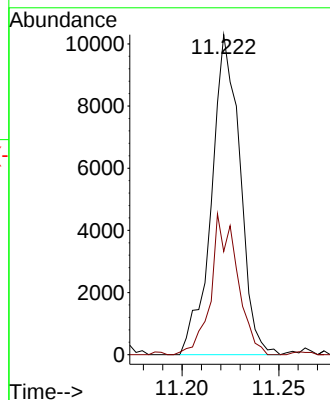
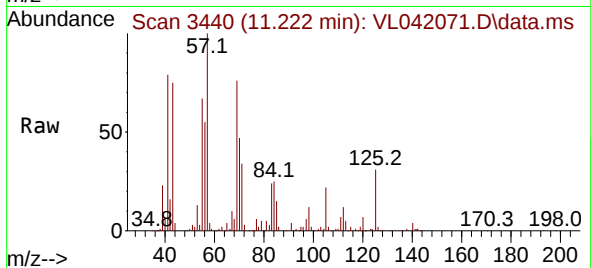
120 34.1 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.381 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. -0.000 min

Lab File: VL042071.D

Acq: 27 Feb 2025 13:28

Tgt Ion:105 Resp: 23451

Ion Ratio Lower Upper

105 100

120 40.0 40.2 60.2#

91 8.9 51.4 77.2#

77 12.3 20.1 30.1#

