

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041930.D
 Acq On : 20 Jan 2025 21:28
 Operator : SY/MD
 Sample : Q1090-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025

Quant Time: Jan 21 07:31:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	139510	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	380814	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.872	117	362775	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	293650	10.277	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.800%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	9358	0.492	ppbv	94
3) Chlorodifluoromethane	1.473	51	8294m	0.417	ppbv	
4) Chloromethane	1.528	50	2031	0.284	ppbv #	84
9) Propene	1.479	41	5829	0.711	ppbv	90
10) Heptane	4.968	43	12890m	0.588	ppbv	
11) Trichlorofluoromethane	1.874	101	4180m	0.211	ppbv	
13) Ethanol	1.719	45	7649	12.734	ppbv #	31
15) Acetone	1.832	43	64964	3.877	ppbv #	54
17) tert-Butyl alcohol	2.042	59	3434	0.167	ppbv #	84
19) Isopropyl Alcohol	1.887	45	3709m	0.373	ppbv	
20) Methylene Chloride	2.059	84	3649	0.551	ppbv	94
26) Hexane	2.822	57	73925	4.137	ppbv #	35
29) Chloroform	2.845	83	2903	0.103	ppbv	92
34) 2-Butanone	2.557	43	91993	3.799	ppbv	99
35) Carbon Tetrachloride	3.751	117	1550m	0.065	ppbv	
36) Benzene	3.651	78	4116	0.118	ppbv	96
52) Tetrachloroethene	8.215	164	9920	0.819	ppbv	93
53) Toluene	6.920	91	63558	1.671	ppbv	98
58) Ethyl Benzene	9.344	91	6862	0.121	ppbv	91
59) m/p-Xylene	9.522	91	22744m	0.500	ppbv	
60) o-Xylene	9.959	91	10871	0.241	ppbv	96
73) 1,3,5-Trimethylbenzene	11.199	105	5226	0.110	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	15568	0.302	ppbv #	53

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

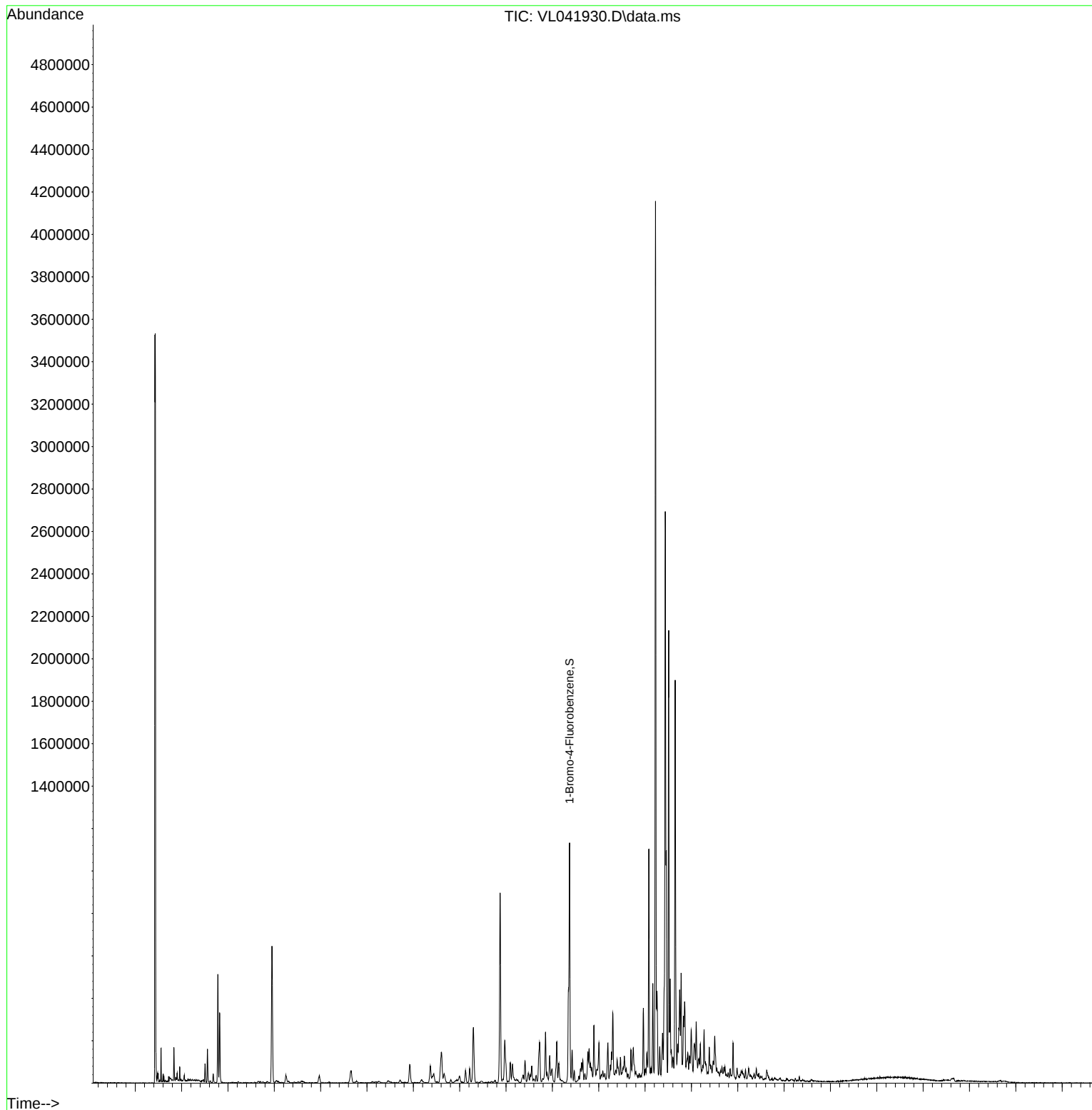
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041930.D
Acq On : 20 Jan 2025 21:28
Operator : SY/MD
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Misc : 400mL/MSVOA_L
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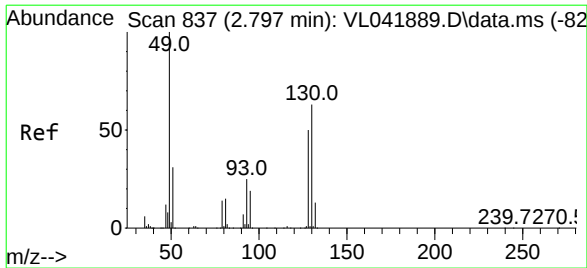
Instrument :
MSVOA_L
ClientSampleId :
SV1

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Supervised By :Mahesh Dadoda 01/21/2025

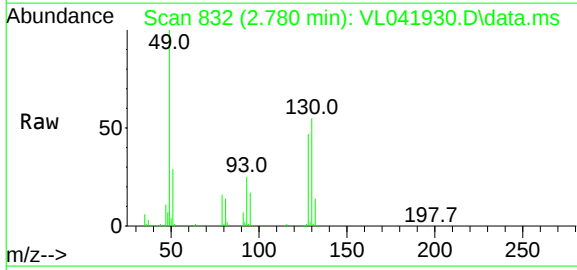
Quant Time: Jan 21 07:31:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 831
Delta R.T. -0.017 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

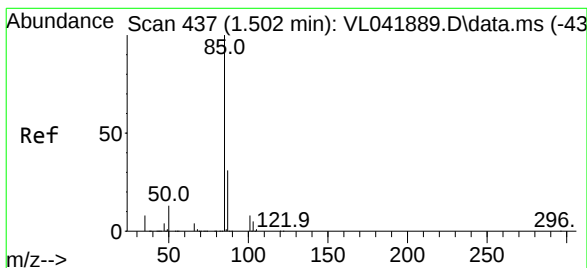
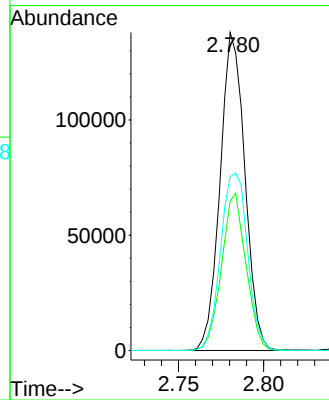
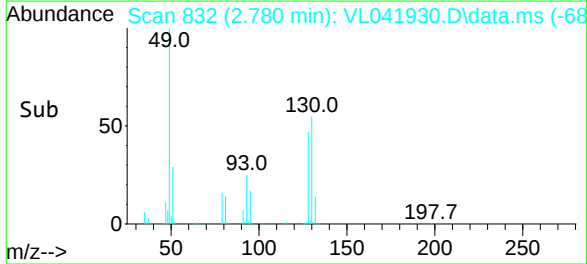
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 139510
Ion Ratio Lower Upper
49 100
128 48.9 24.3 73.0
130 60.9 31.1 93.2

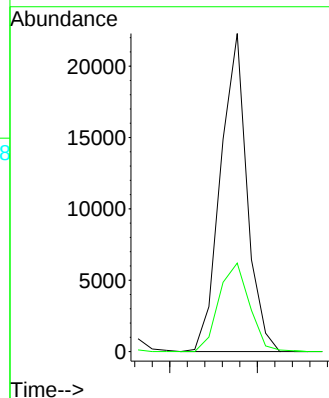
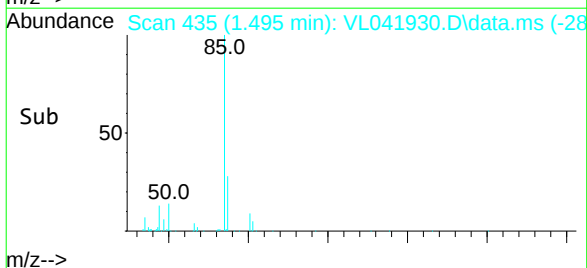
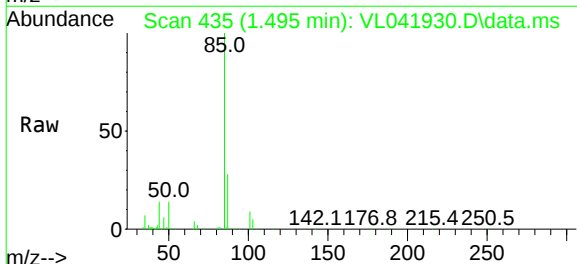
Manual Integrations
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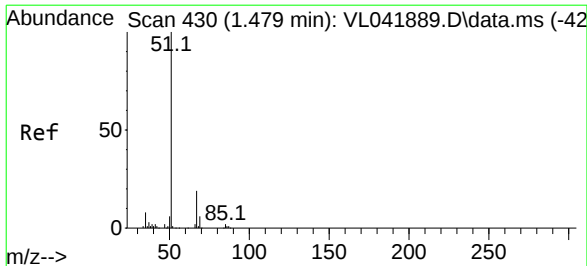
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#2
Dichlorodifluoromethane
Concen: 0.492 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.007 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

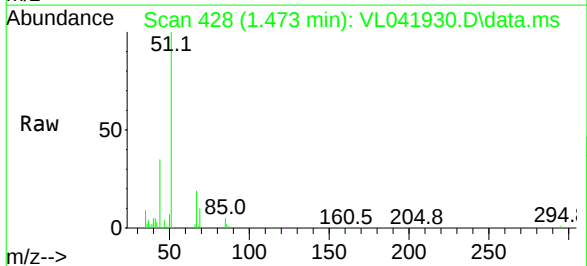
Tgt Ion: 85 Resp: 9358
Ion Ratio Lower Upper
85 100
87 27.8 24.9 37.3





#3
Chlorodifluoromethane
Concen: 0.417 ppbv m
RT: 1.473 min Scan# 42
Delta R.T. -0.007 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

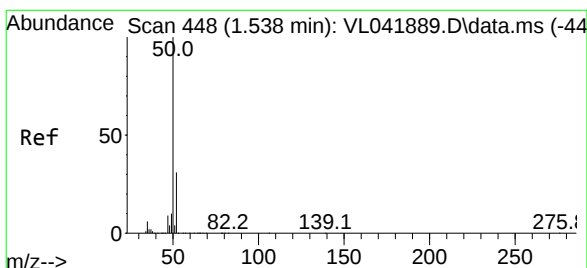
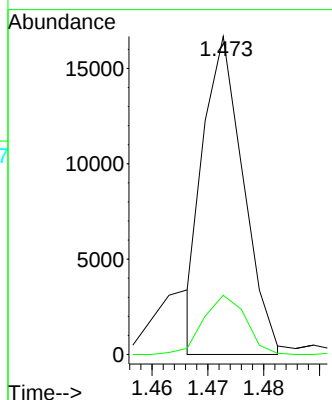
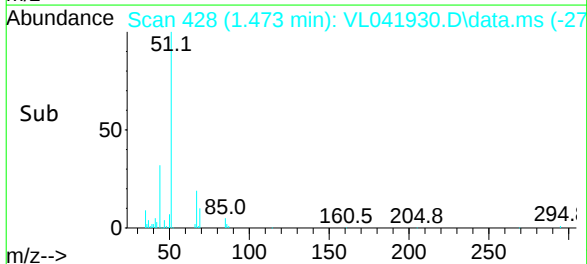
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 51 Resp: 8294
Ion Ratio Lower Upper
51 100
67 20.5 15.0 22.4

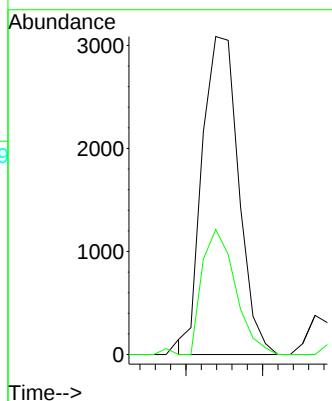
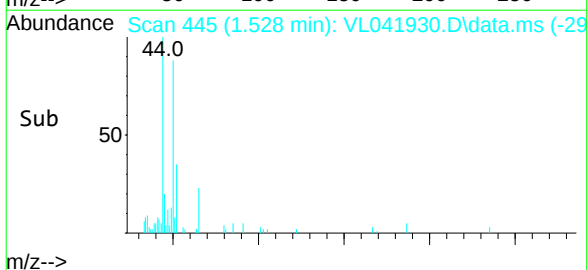
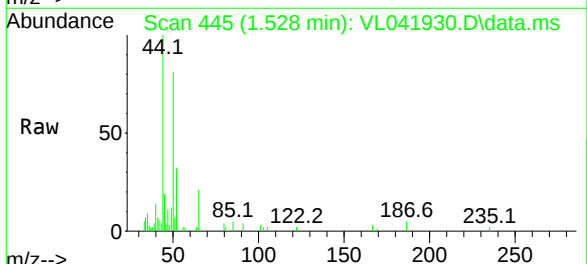
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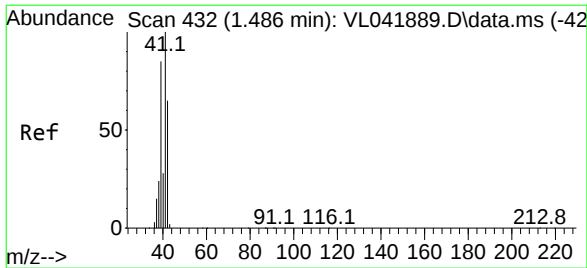
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#4
Chloromethane
Concen: 0.284 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.010 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

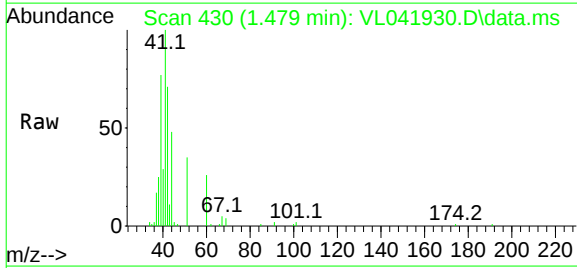
Tgt Ion: 50 Resp: 2031
Ion Ratio Lower Upper
50 100
52 39.3 24.6 36.8#





#9
 Propene
 Concen: 0.711 ppbv
 RT: 1.479 min Scan# 43
 Delta R.T. -0.007 min
 Lab File: VL041930.D
 Acq: 20 Jan 2025 21:28

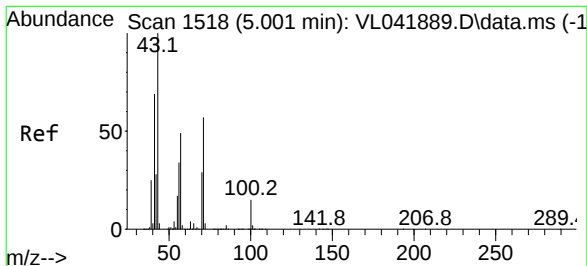
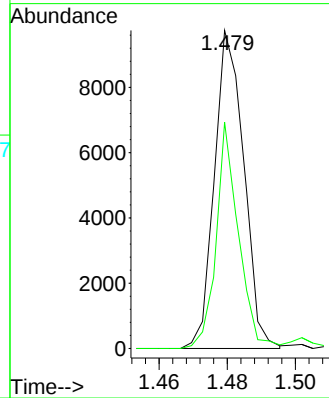
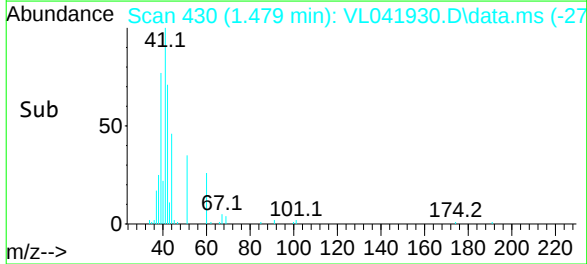
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



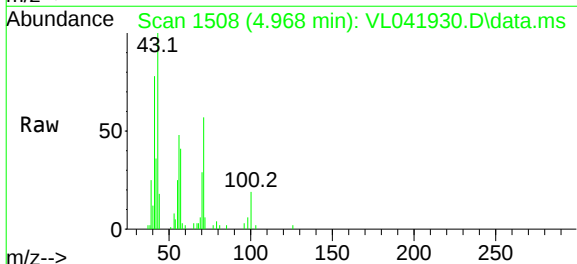
Tgt Ion: 41 Resp: 5829
 Ion Ratio Lower Upper
 41 100
 42 57.2 52.0 78.0

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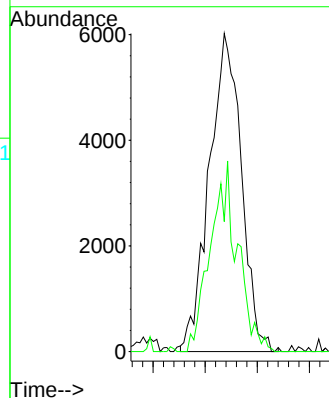
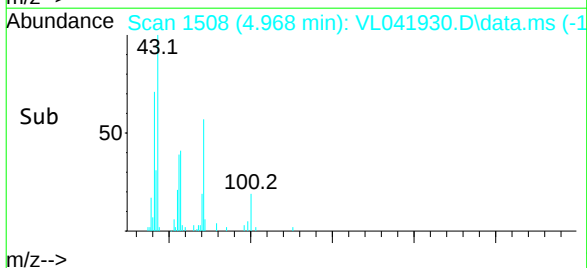
Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025

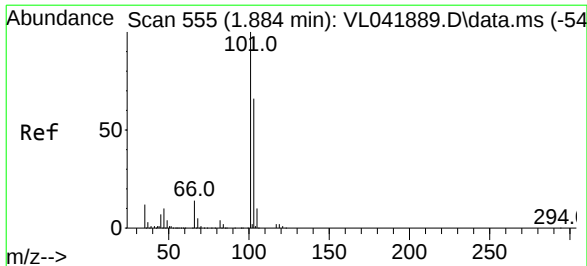


#10
 Heptane
 Concen: 0.588 ppbv m
 RT: 4.968 min Scan# 1508
 Delta R.T. -0.032 min
 Lab File: VL041930.D
 Acq: 20 Jan 2025 21:28



Tgt Ion: 43 Resp: 12890
 Ion Ratio Lower Upper
 43 100
 57 50.6 41.0 61.4





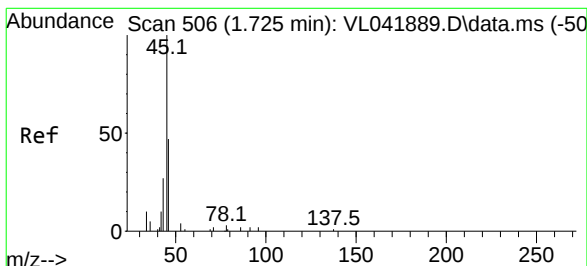
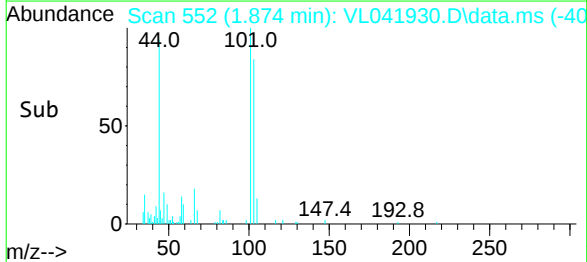
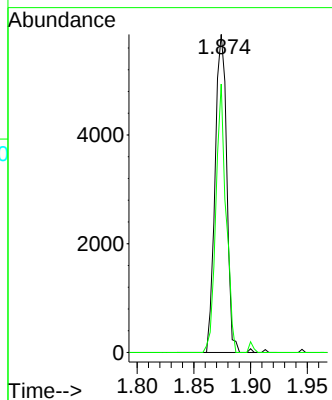
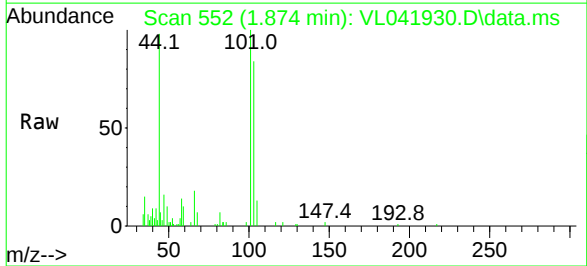
#11
Trichlorofluoromethane
Concen: 0.211 ppbv m
RT: 1.874 min Scan# 555
Delta R.T. -0.010 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 101 Resp: 4180
Ion Ratio Lower Upper
101 100
103 84.4 53.1 79.7#

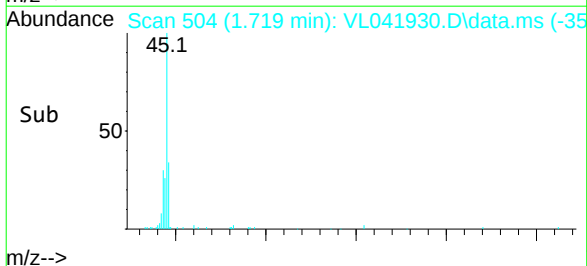
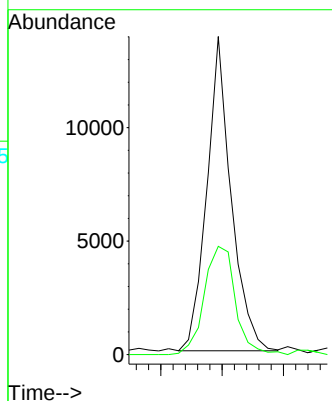
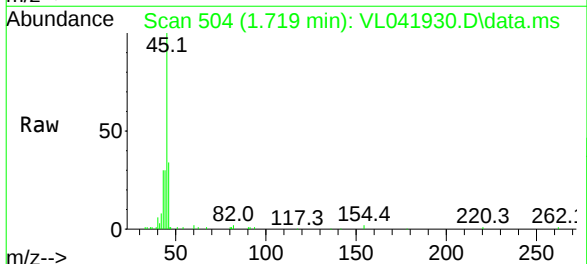
Manual Integrations
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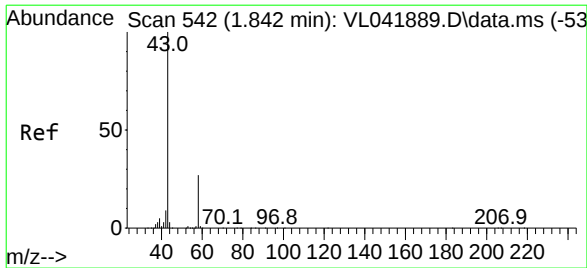
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#13
Ethanol
Concen: 12.734 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.007 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

Tgt Ion: 45 Resp: 7649
Ion Ratio Lower Upper
45 100
46 0.0 18.1 72.5#





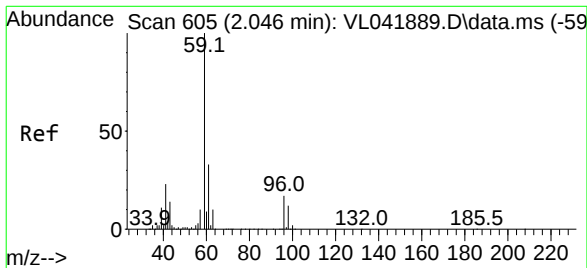
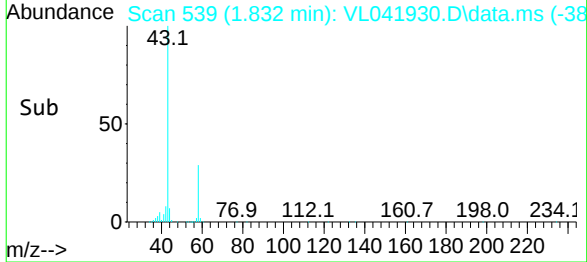
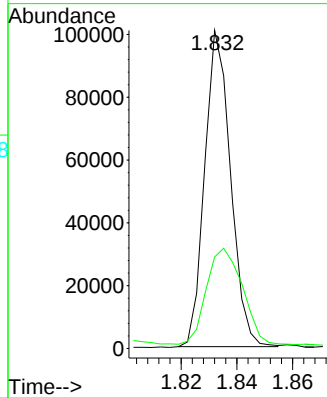
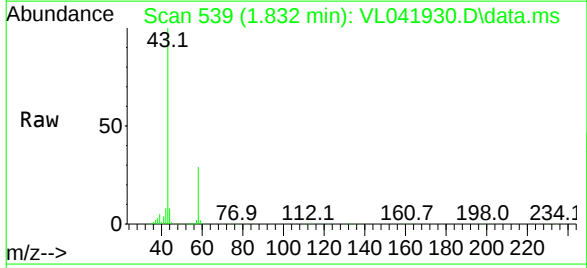
#15
Acetone
Concen: 3.877 ppbv
RT: 1.832 min Scan# 53
Delta R.T. -0.010 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 64964
Ion Ratio Lower Upper
43 100
58 51.2 21.9 32.9#

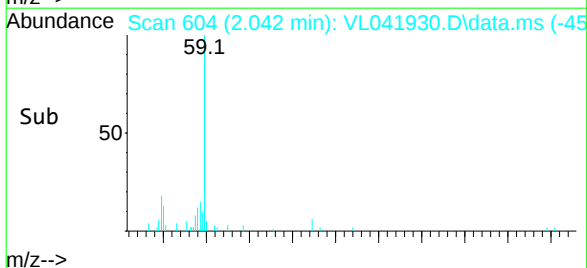
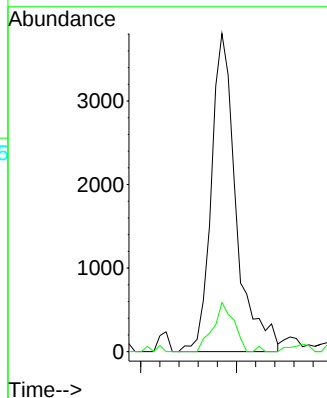
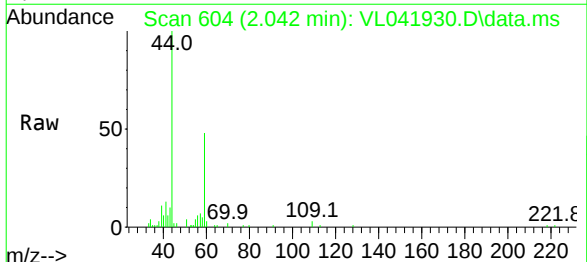
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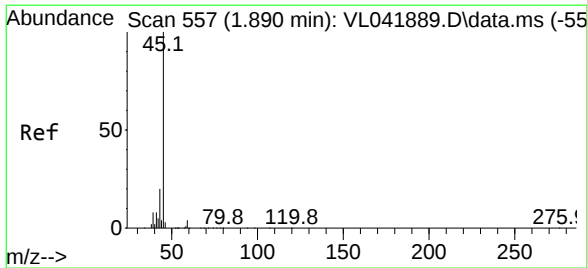
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#17
tert-Butyl alcohol
Concen: 0.167 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.003 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

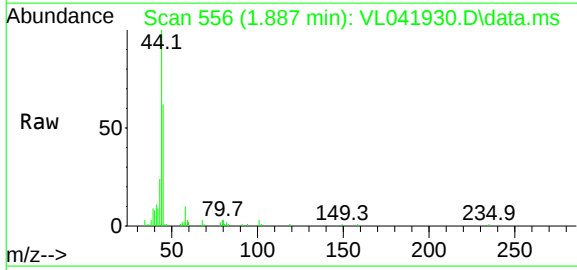
Tgt Ion: 59 Resp: 3434
Ion Ratio Lower Upper
59 100
57 15.8 7.8 11.8#





#19
Isopropyl Alcohol
Concen: 0.373 ppbv m
RT: 1.887 min Scan# 55
Delta R.T. -0.003 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

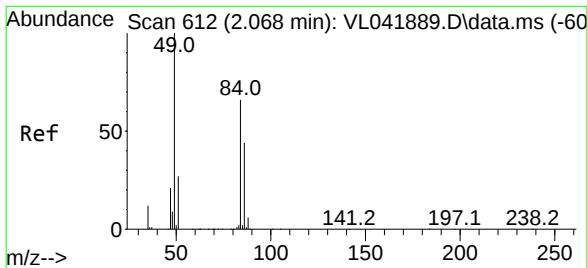
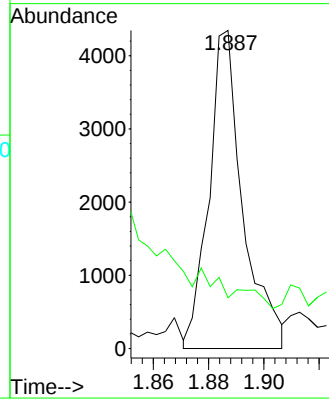
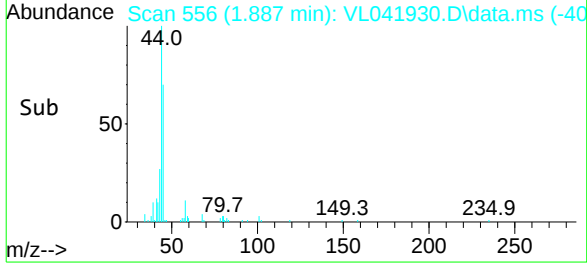
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 45 Resp: 3709
Ion Ratio Lower Upper
45 100
58 589.8 35.0 52.6#

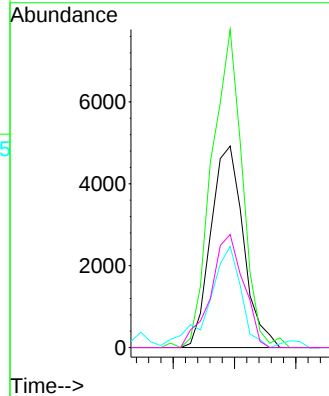
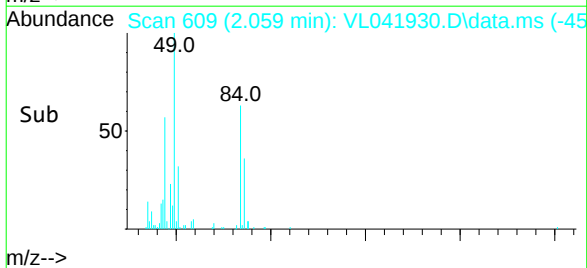
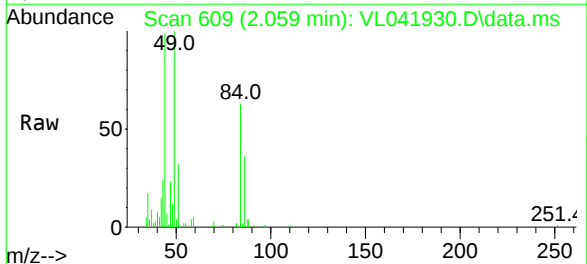
Manual Integrations
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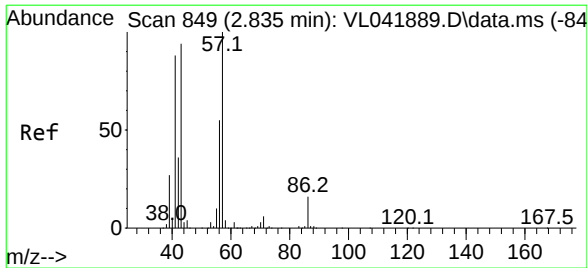
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#20
Methylene Chloride
Concen: 0.551 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

Tgt Ion: 84 Resp: 3649
Ion Ratio Lower Upper
84 100
49 157.9 123.1 184.7
51 48.4 35.8 53.8
86 56.2 53.7 80.5





#26

Hexane

Concen: 4.137 ppbv

RT: 2.822 min Scan# 84

Delta R.T. -0.013 min

Lab File: VL041930.D

Acq: 20 Jan 2025 21:28

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 57 Resp: 73925

Ion Ratio Lower Upper

57 100

41 94.1 73.8 110.8

43 70.2 197.3 295.9#

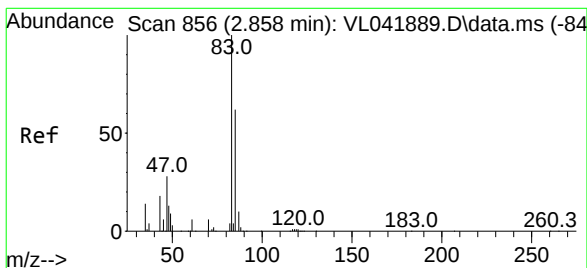
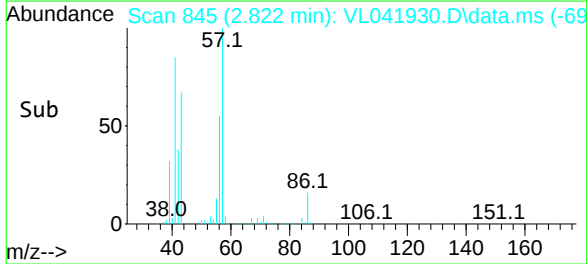
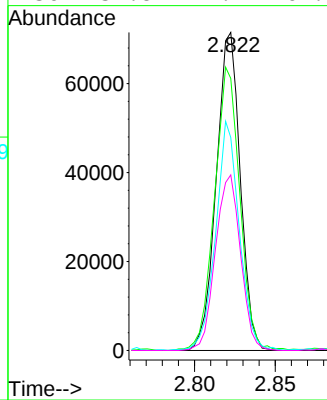
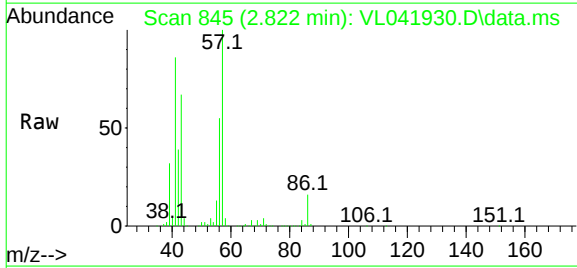
56 57.8 42.7 64.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025

Supervised By :Mahesh Dadoda 01/21/2025



#29

Chloroform

Concen: 0.103 ppbv

RT: 2.845 min Scan# 852

Delta R.T. -0.013 min

Lab File: VL041930.D

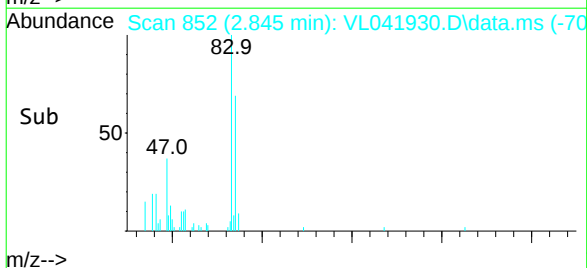
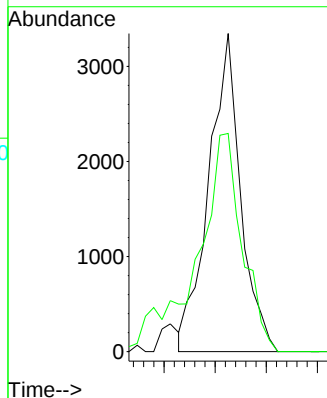
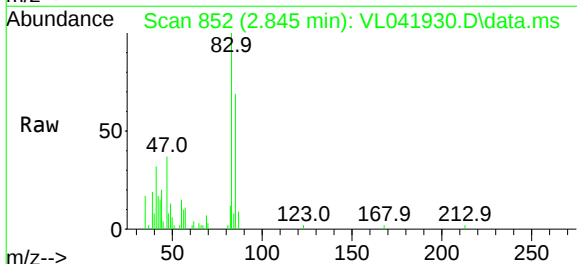
Acq: 20 Jan 2025 21:28

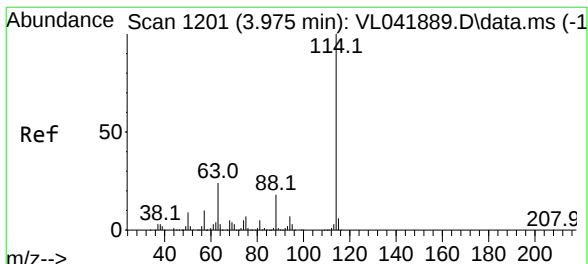
Tgt Ion: 83 Resp: 2903

Ion Ratio Lower Upper

83 100

85 68.6 50.1 75.1





#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.949 min Scan# 11
 Delta R.T. -0.026 min
 Lab File: VL041930.D
 Acq: 20 Jan 2025 21:28

Instrument :

MSVOA_L

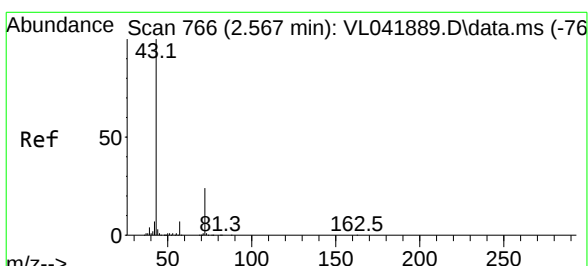
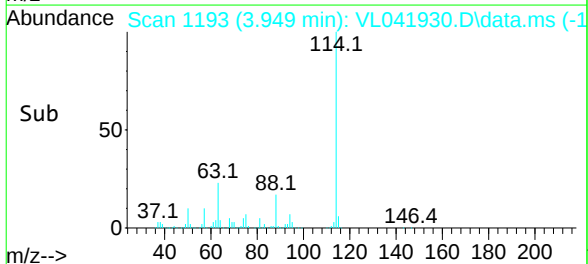
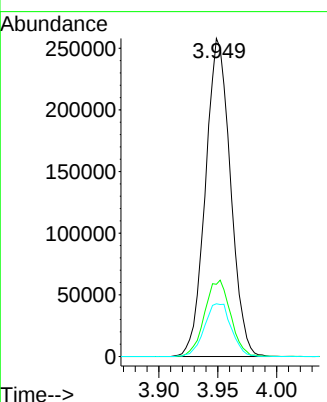
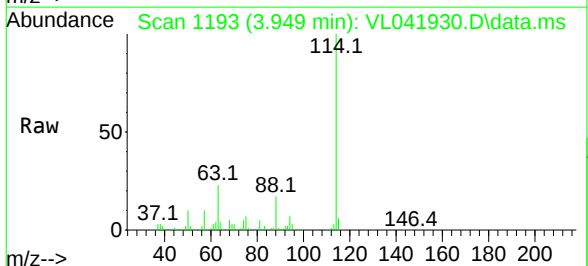
ClientSampleId :

SV1

Tgt Ion:	114	Resp:	380814
Ion	Ratio	Lower	Upper
114	100		
63	24.9	19.8	29.6
88	17.8	14.4	21.6

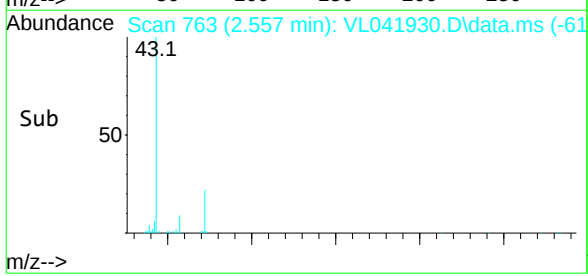
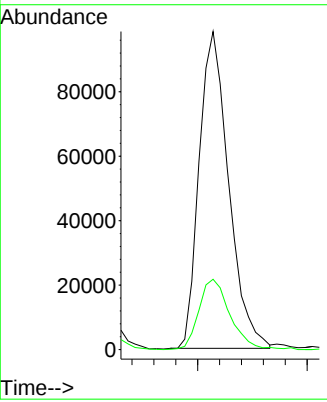
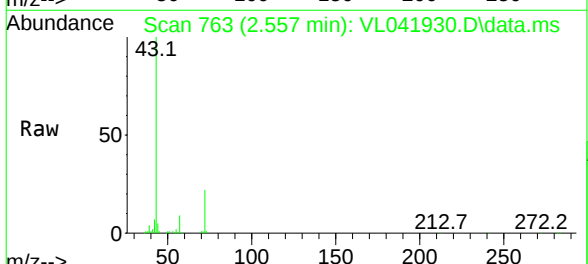
Manual Integrations
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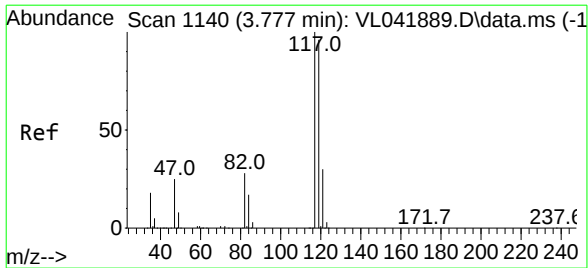
Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025



#34
 2-Butanone
 Concen: 3.799 ppbv
 RT: 2.557 min Scan# 763
 Delta R.T. -0.010 min
 Lab File: VL041930.D
 Acq: 20 Jan 2025 21:28

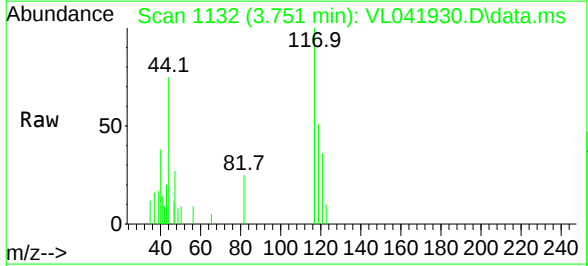
Tgt Ion:	43	Resp:	91993
Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.6	28.0





#35
Carbon Tetrachloride
Concen: 0.065 ppbv m
RT: 3.751 min Scan# 11
Delta R.T. -0.026 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

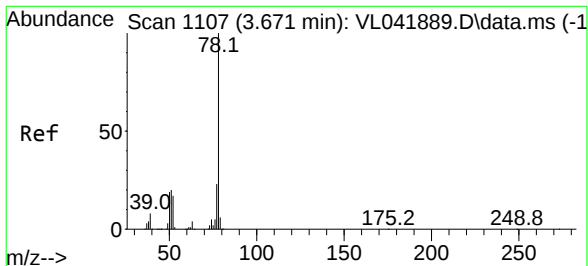
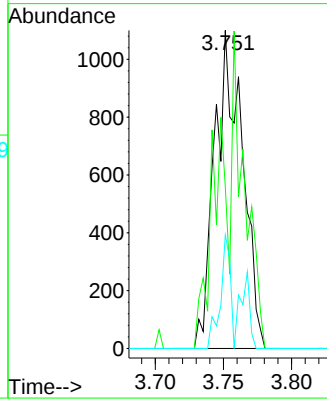
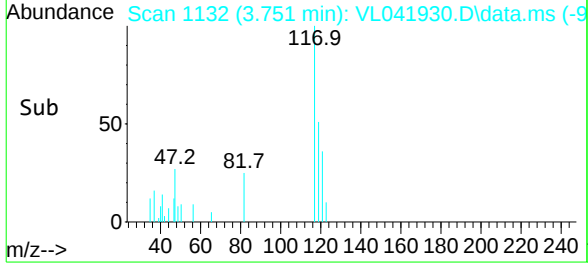
Instrument :
MSVOA_L
ClientSampleId :
SV1



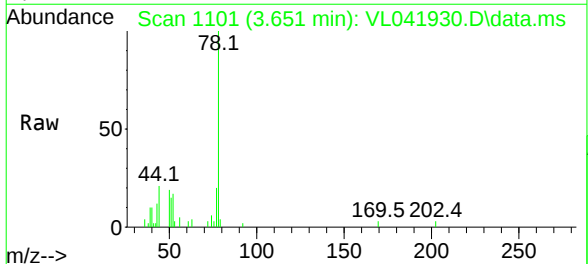
Tgt Ion: 117 Resp: 1550
Ion Ratio Lower Upper
117 100
119 50.9 76.9 115.3#
121 35.7 23.8 35.6#

Manual Integrations
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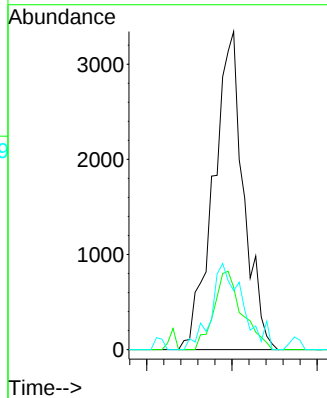
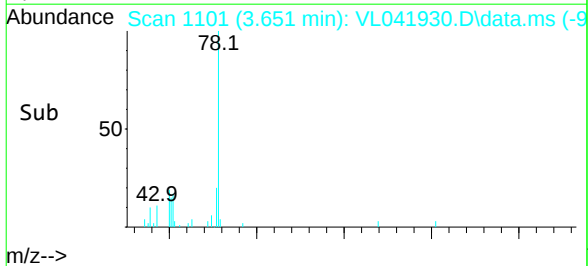
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025

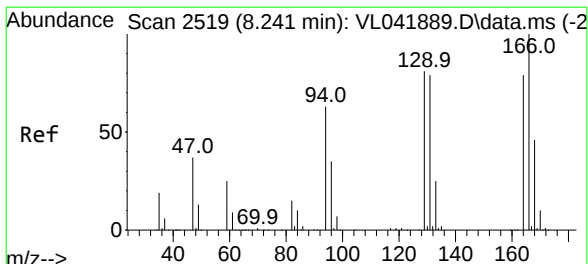


#36
Benzene
Concen: 0.118 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.020 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28



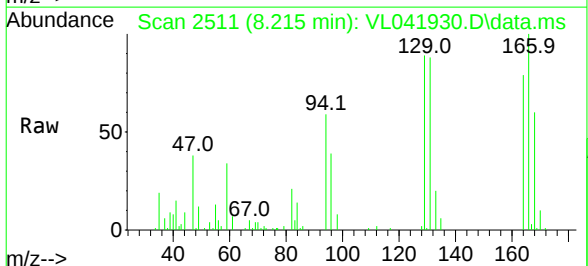
Tgt Ion: 78 Resp: 4116
Ion Ratio Lower Upper
78 100
77 19.6 18.1 27.1
50 18.5 15.2 22.8





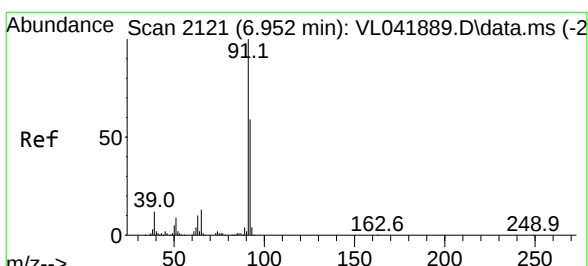
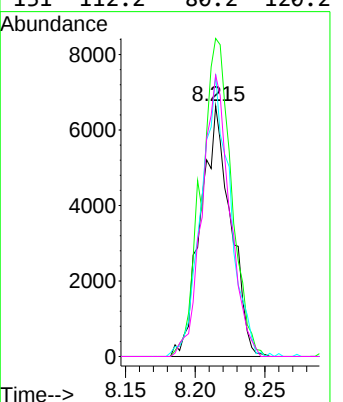
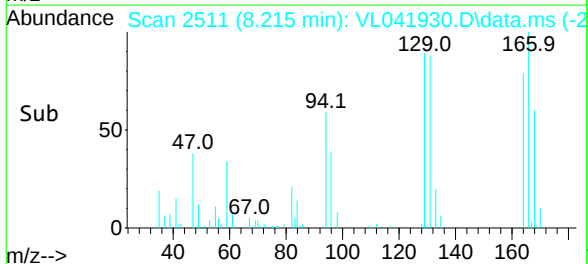
#52
Tetrachloroethene
 Concen: 0.819 ppbv
 RT: 8.215 min Scan# 2519
 Delta R.T. -0.026 min
 Lab File: VL041930.D
 Acq: 20 Jan 2025 21:28

Instrument : MSVOA_L
ClientSampleId : SV1

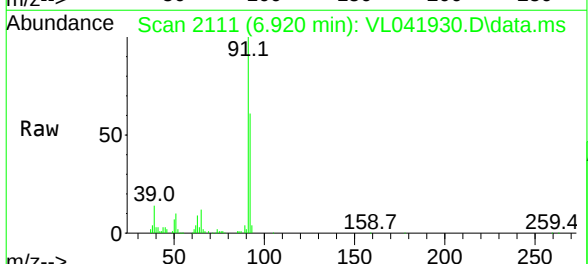


Tgt Ion:	164	Resp:	9920
Ion	Ratio	Lower	Upper
164	100		
166	126.9	100.8	151.2
129	111.4	82.0	123.0
131	112.2	80.2	120.2

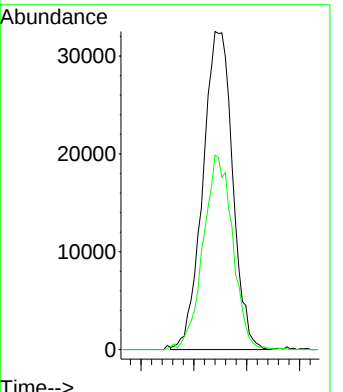
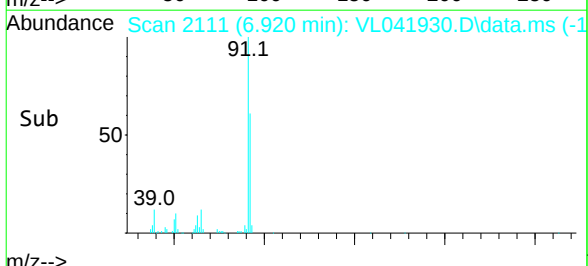
Manual Integrations
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 Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025

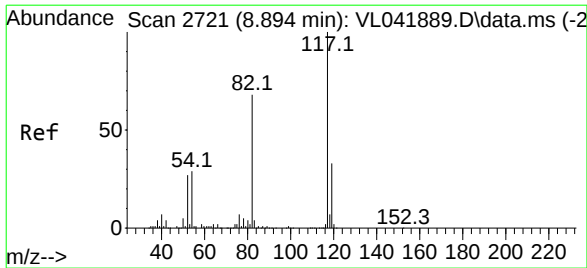


#53
Toluene
 Concen: 1.671 ppbv
 RT: 6.920 min Scan# 2111
 Delta R.T. -0.032 min
 Lab File: VL041930.D
 Acq: 20 Jan 2025 21:28



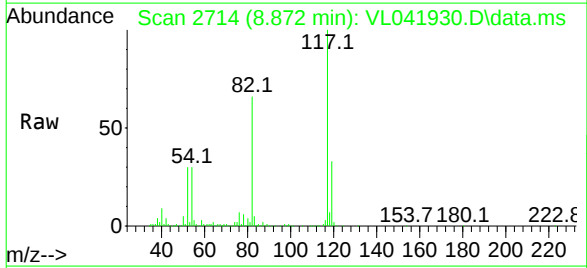
Tgt Ion:	91	Resp:	63558
Ion	Ratio	Lower	Upper
91	100		
92	60.5	47.4	71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.023 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

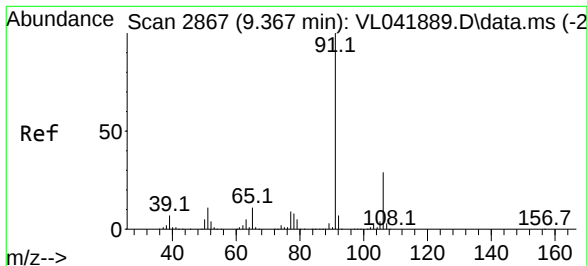
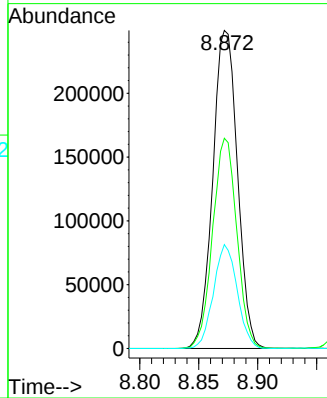
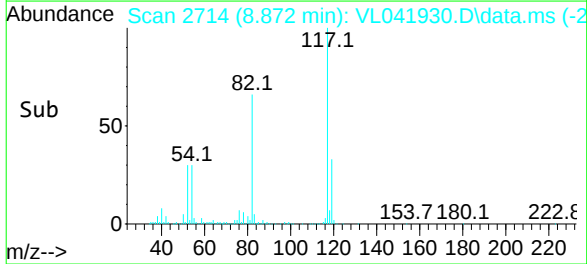
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 117 Resp: 362775
Ion Ratio Lower Upper
117 100
82 64.9 54.2 81.4
119 31.4 25.0 37.6

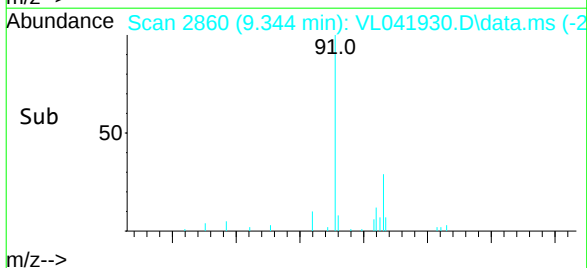
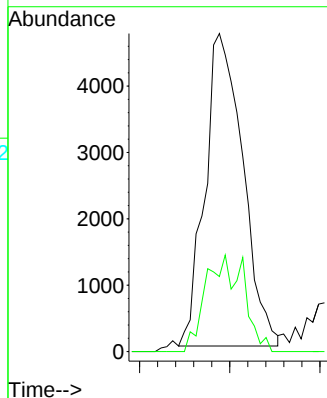
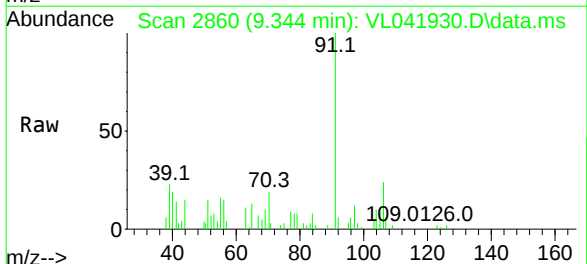
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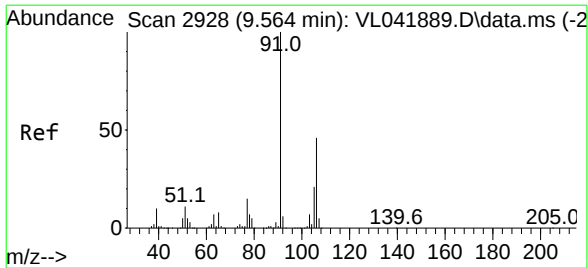
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#58
Ethyl Benzene
Concen: 0.121 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.023 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

Tgt Ion: 91 Resp: 6862
Ion Ratio Lower Upper
91 100
106 24.0 23.1 34.7





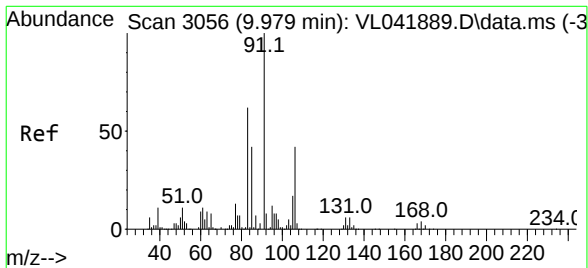
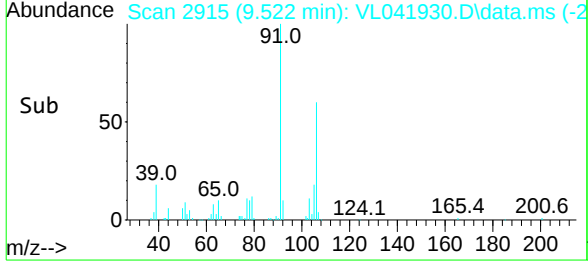
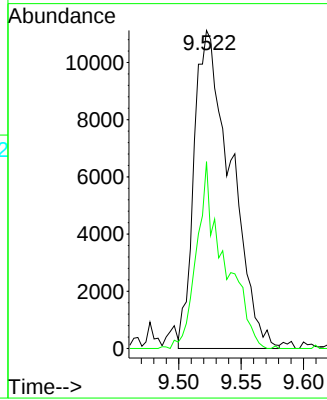
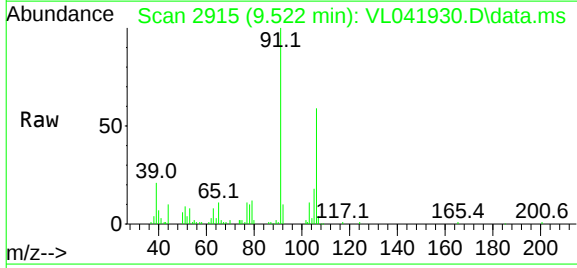
#59
m/p-Xylene
Concen: 0.500 ppbv m
RT: 9.522 min Scan# 2915
Delta R.T. -0.042 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 22744
Ion Ratio Lower Upper
91 100
106 0.0 36.0 54.0

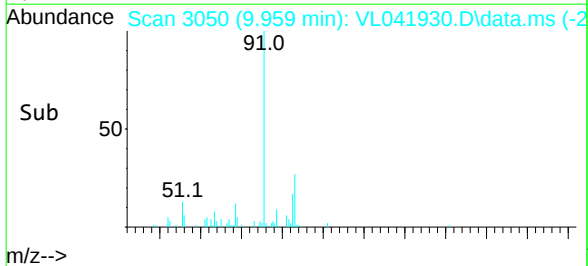
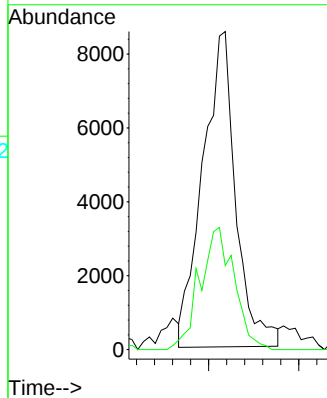
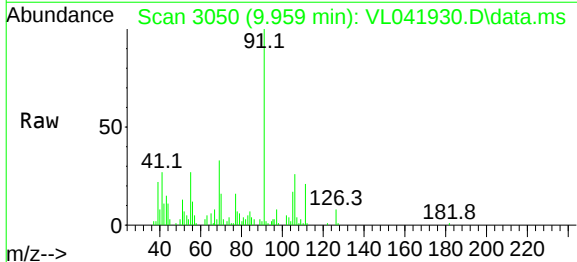
Manual Integrations
APPROVED

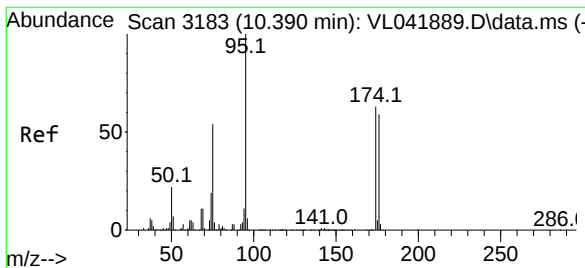
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#60
o-Xylene
Concen: 0.241 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.020 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

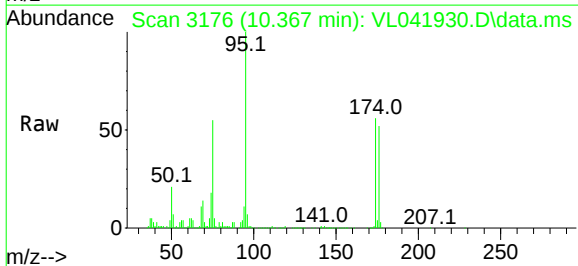
Tgt Ion: 91 Resp: 10871
Ion Ratio Lower Upper
91 100
106 40.2 21.3 63.9





#68
1-Bromo-4-Fluorobenzene
Concen: 10.277 ppbv
RT: 10.367 min Scan# 3183
Delta R.T. -0.023 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

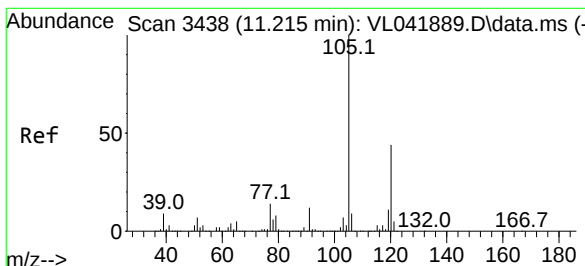
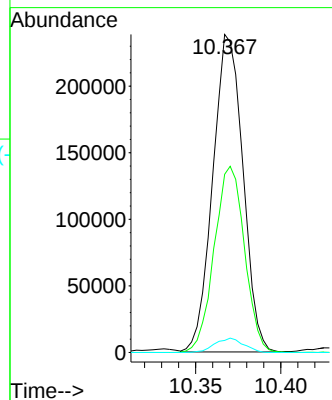
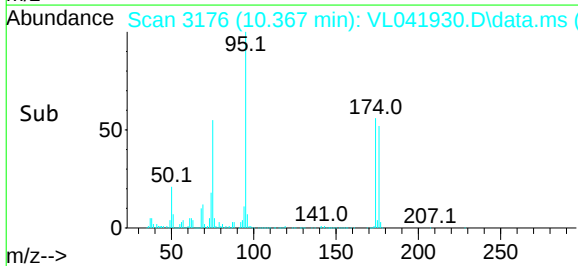
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 95 Resp: 293650
Ion Ratio Lower Upper
95 100
174 59.0 49.0 73.4
175 4.3 3.8 5.8

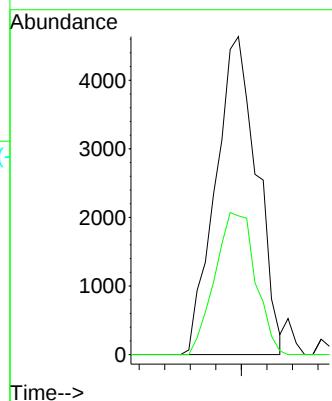
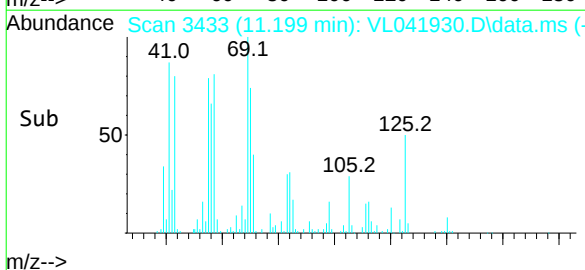
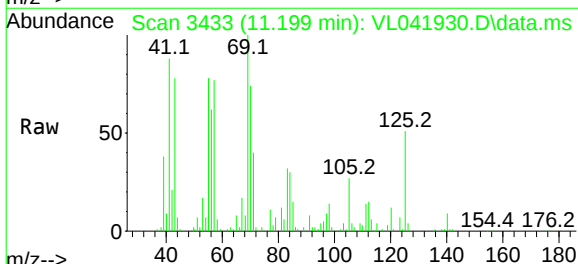
Manual Integrations
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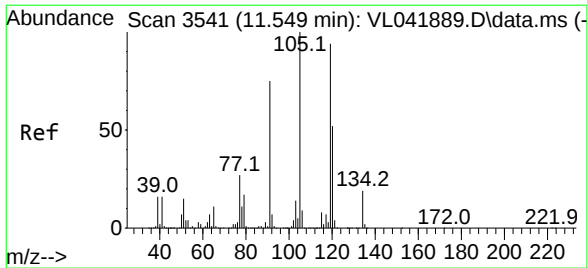
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.110 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.016 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

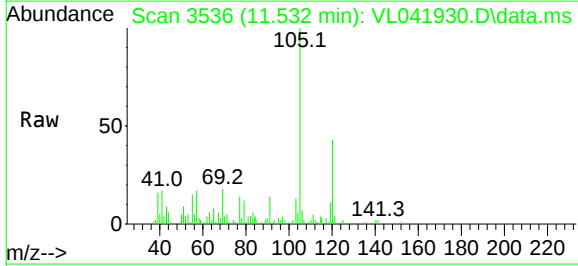
Tgt Ion:105 Resp: 5226
Ion Ratio Lower Upper
105 100
120 43.6 35.4 53.2





#74
1,2,4-Trimethylbenzene
Concen: 0.302 ppbv
RT: 11.532 min Scan# 3541
Delta R.T. -0.016 min
Lab File: VL041930.D
Acq: 20 Jan 2025 21:28

Instrument : MSVOA_L
ClientSampleId : SV1



Tgt Ion:	105	Resp:	15568
Ion Ratio	Lower	Upper	
105	100		
120	43.9	41.4	62.2
91	11.1	60.2	90.2#
77	9.5	22.0	33.0#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025

