

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041970.D
 Acq On : 03 Feb 2025 18:15
 Operator : SY/MD
 Sample : Q1256-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:40:00 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)

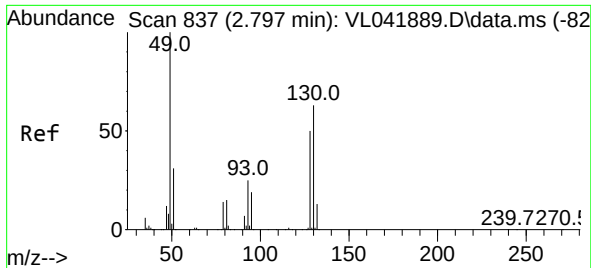
Internal Standards						
1) Bromochloromethane	2.797	49	152639	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	421377	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	366996	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	282500	9.773	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	9072	0.436	ppbv	97
4) Chloromethane	1.538	50	3669	0.469	ppbv	95
9) Propene	1.492	41	12419m	1.384	ppbv	
10) Heptane	4.998	43	3254m	0.136	ppbv	
11) Trichlorofluoromethane	1.884	101	4520	0.209	ppbv	89
13) Ethanol	1.725	45	135626	206.367	ppbv	88
15) Acetone	1.842	43	1455087	79.369	ppbv #	88
19) Isopropyl Alcohol	1.894	45	390002	35.878	ppbv #	1
20) Methylene Chloride	2.068	84	2806	0.387	ppbv	92
26) Hexane	2.839	57	7438	0.380	ppbv #	56
34) 2-Butanone	2.570	43	7294	0.272	ppbv	94
35) Carbon Tetrachloride	3.784	117	2627m	0.099	ppbv	
36) Benzene	3.674	78	15092	0.390	ppbv #	92
44) 2,2,4-Trimethylpentane	4.661	57	9955	0.159	ppbv #	66
53) Toluene	6.953	91	24588	0.584	ppbv	98
59) m/p-Xylene	9.545	91	11898	0.259	ppbv	90
60) o-Xylene	9.979	91	5246	0.115	ppbv	95
74) 1,2,4-Trimethylbenzene	11.549	105	6099	0.117	ppbv #	58
76) 1,4-Dichlorobenzene	11.685	146	10034	0.332	ppbv	92

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

Manual Integrations

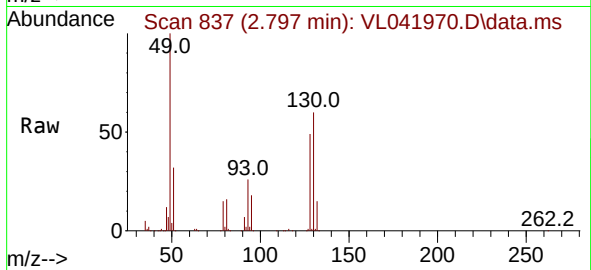
Quant Time: Feb 04 02:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 837
Delta R.T. -0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

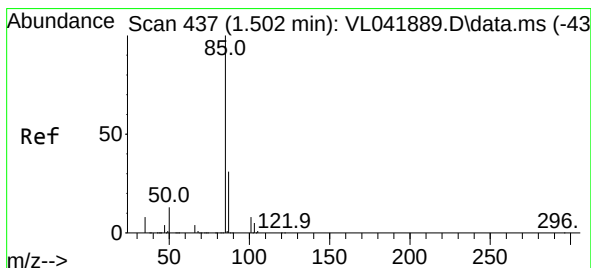
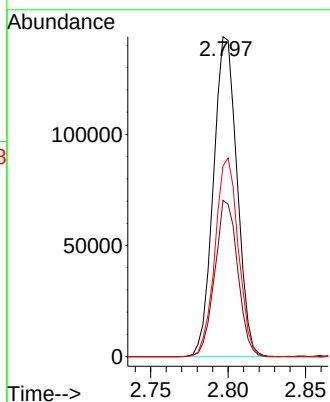
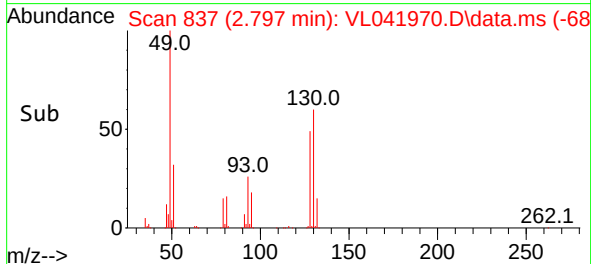
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 152639
Ion Ratio Lower Upper
49 100
128 47.4 24.3 73.0
130 61.1 31.1 93.2

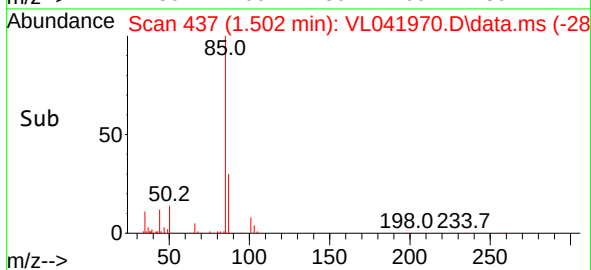
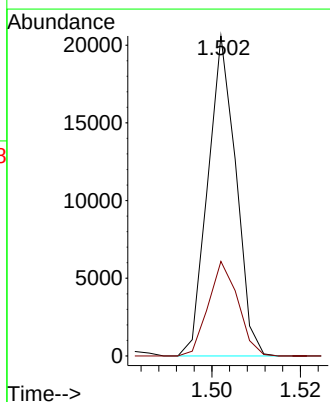
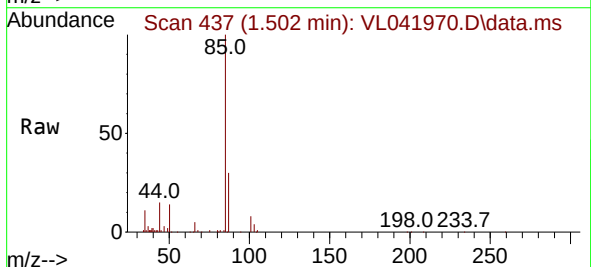
Manual Integrations
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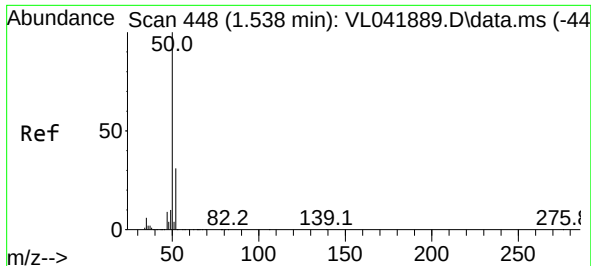
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#2
Dichlorodifluoromethane
Concen: 0.436 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

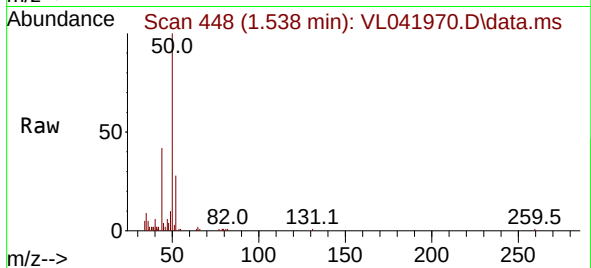
Tgt Ion: 85 Resp: 9072
Ion Ratio Lower Upper
85 100
87 29.6 24.9 37.3





#4
Chloromethane
Concen: 0.469 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

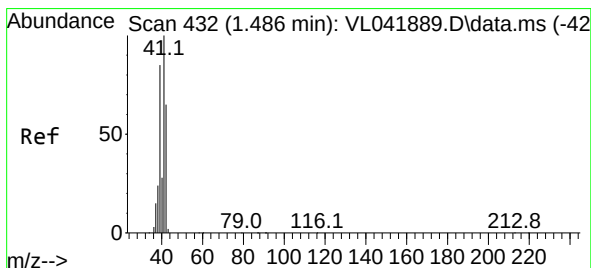
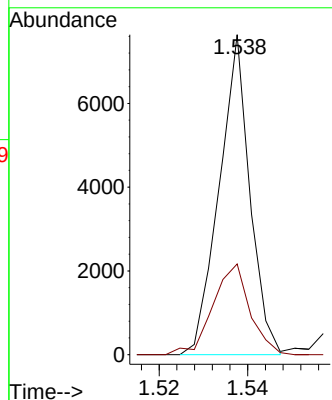
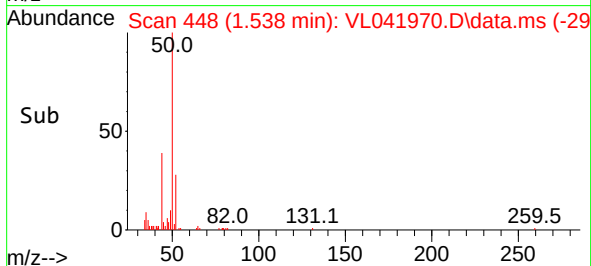
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 50 Resp: 3669
Ion Ratio Lower Upper
50 100
52 28.0 24.6 36.8

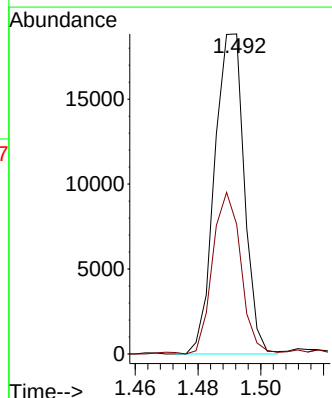
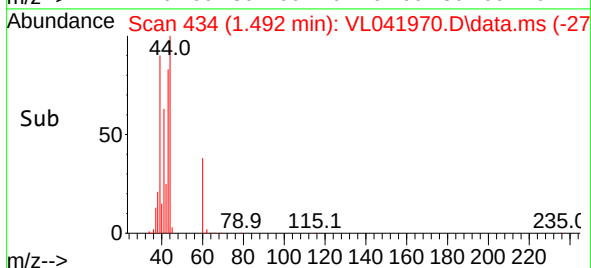
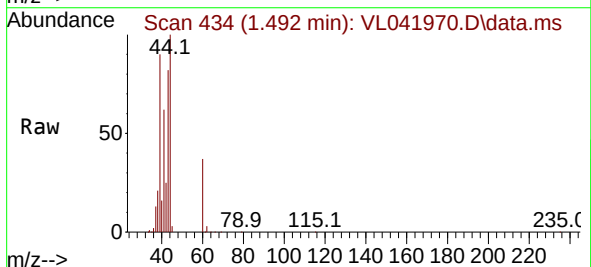
Manual Integrations
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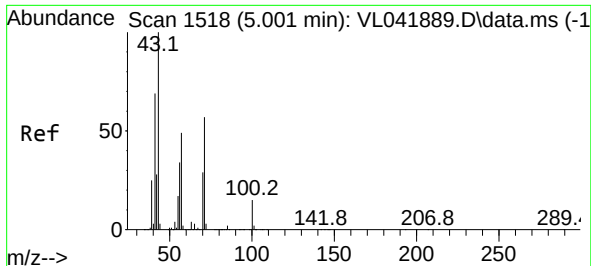
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#9
Propene
Concen: 1.384 ppbv m
RT: 1.492 min Scan# 434
Delta R.T. 0.007 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 41 Resp: 12419
Ion Ratio Lower Upper
41 100
42 83.0 52.0 78.0#





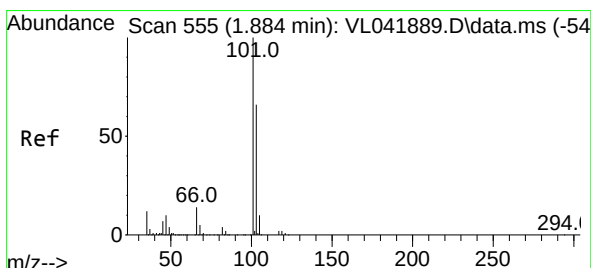
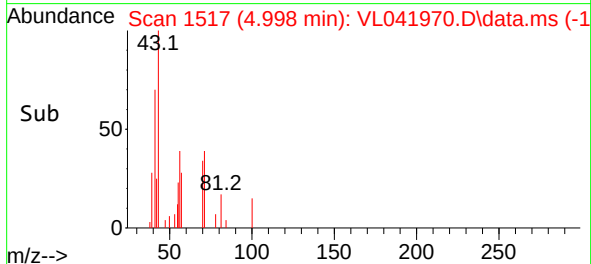
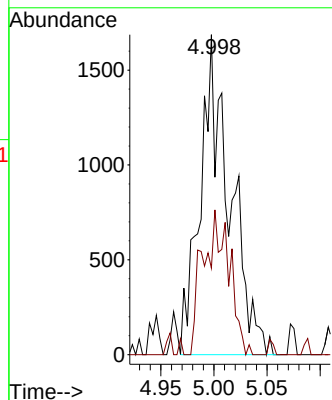
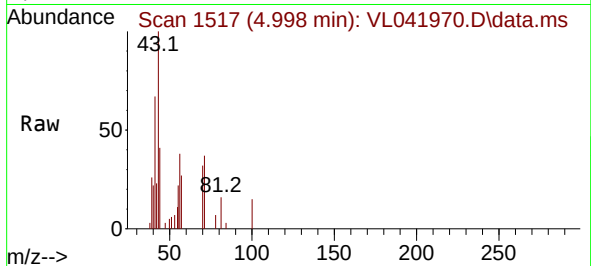
#10
Heptane
Concen: 0.136 ppbv m
RT: 4.998 min Scan# 1518
Delta R.T. -0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 3254
Ion Ratio Lower Upper
43 100
57 41.8 41.0 61.4

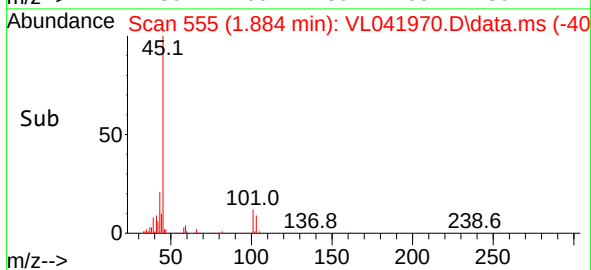
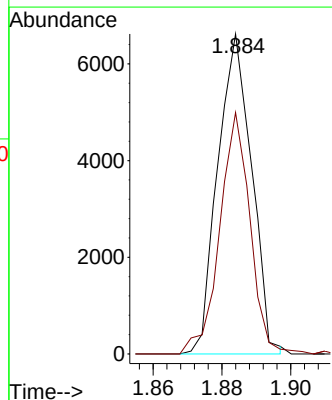
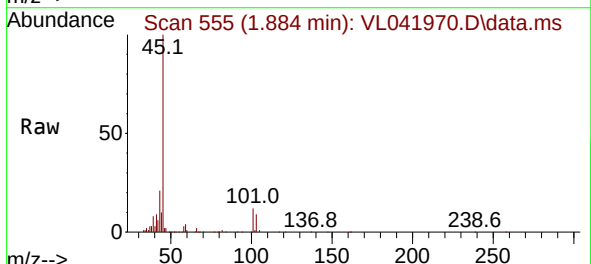
Manual Integrations
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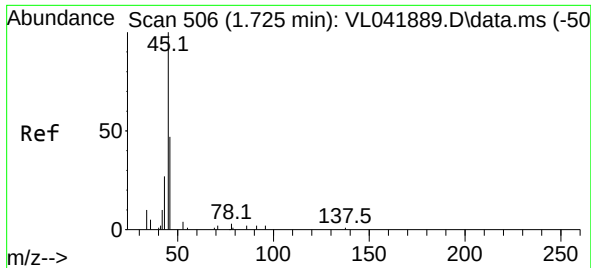
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#11
Trichlorofluoromethane
Concen: 0.209 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

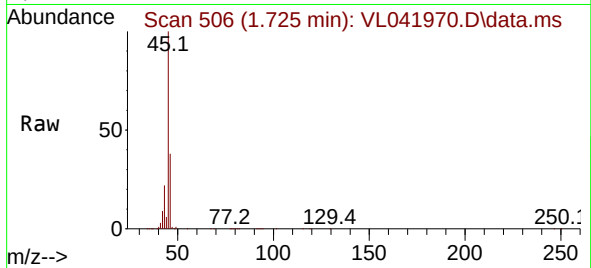
Tgt Ion:101 Resp: 4520
Ion Ratio Lower Upper
101 100
103 75.4 53.1 79.7





#13
Ethanol
Concen: 206.367 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

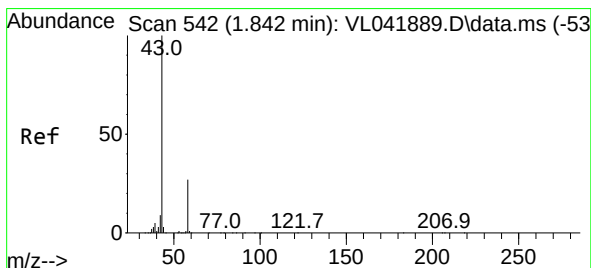
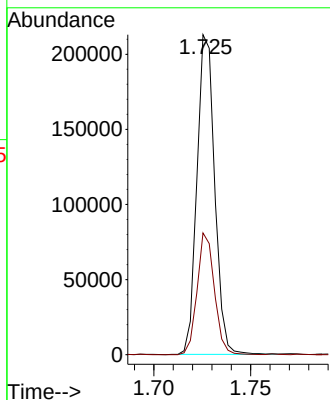
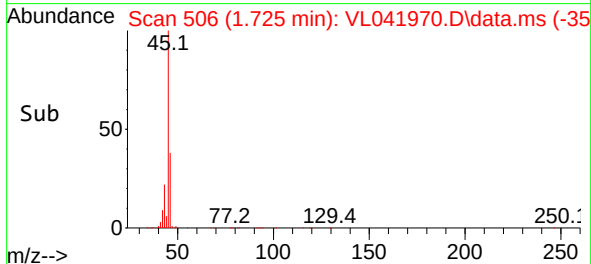
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 135620
Ion Ratio Lower Upper
45 100
46 37.5 18.1 72.5

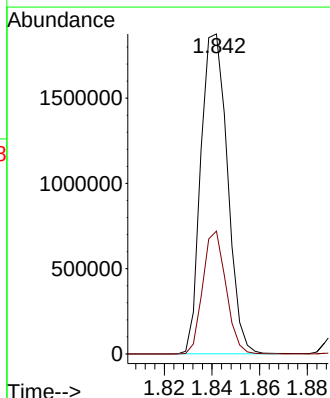
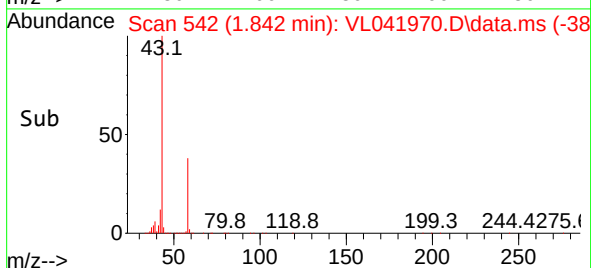
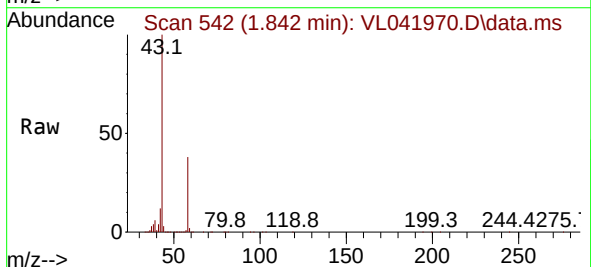
Manual Integrations
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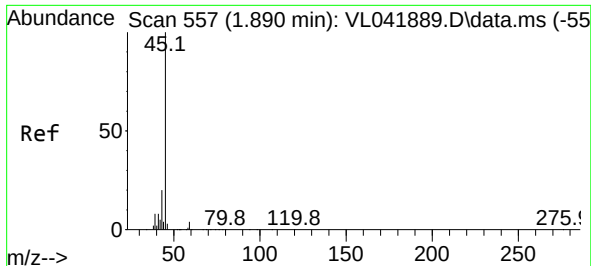
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#15
Acetone
Concen: 79.369 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 43 Resp: 1455087
Ion Ratio Lower Upper
43 100
58 33.5 21.9 32.9





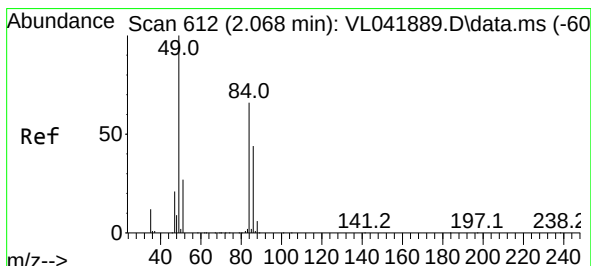
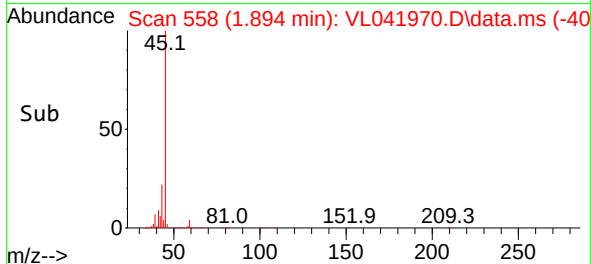
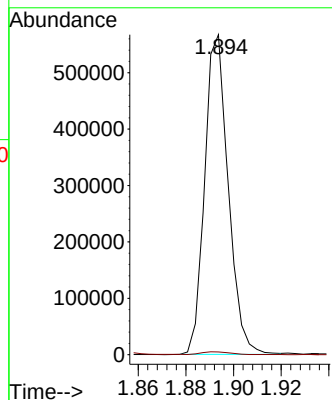
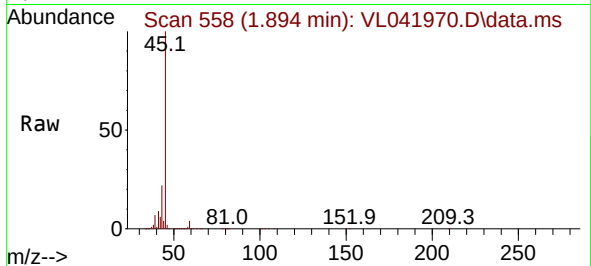
#19
Isopropyl Alcohol
Concen: 35.878 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 390002
Ion Ratio Lower Upper
45 100
58 124.9 35.0 52.6

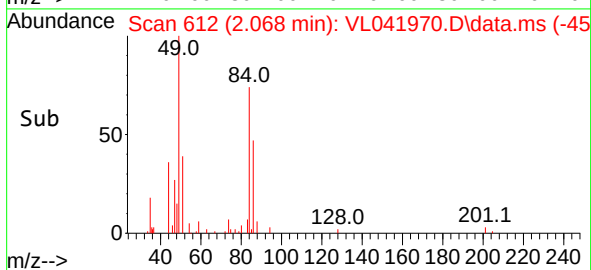
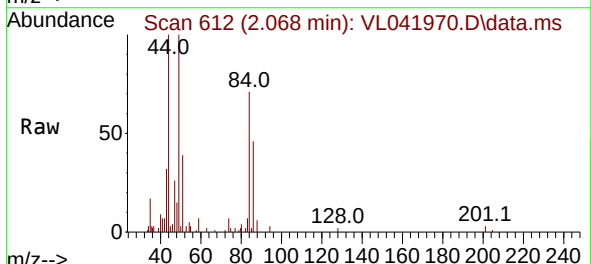
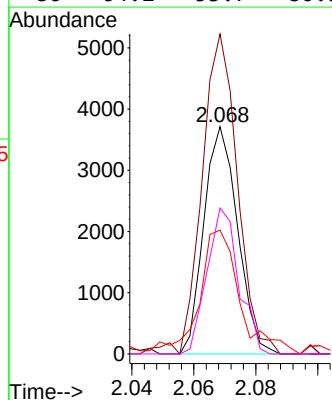
Manual Integrations
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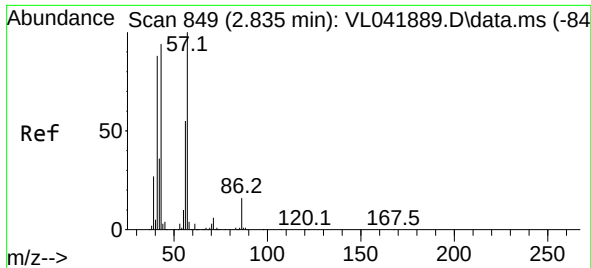
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#20
Methylene Chloride
Concen: 0.387 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

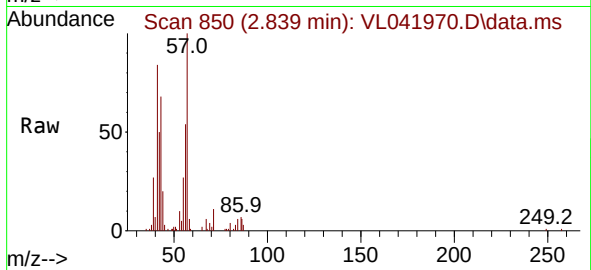
Tgt Ion: 84 Resp: 2806
Ion Ratio Lower Upper
84 100
49 140.8 123.1 184.7
51 48.5 35.8 53.8
86 64.2 53.7 80.5





#26
Hexane
Concen: 0.380 ppbv
RT: 2.839 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

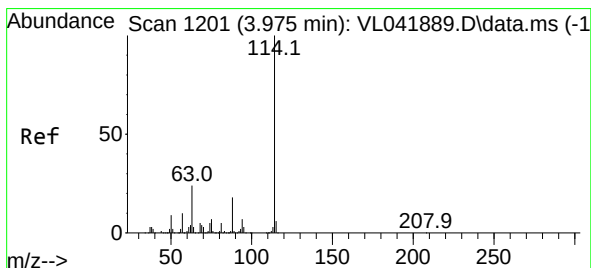
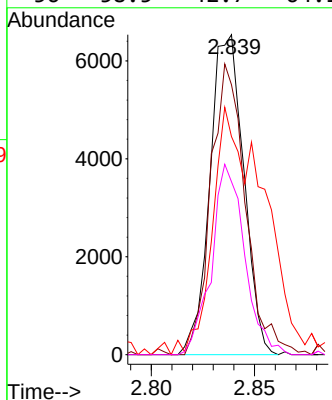
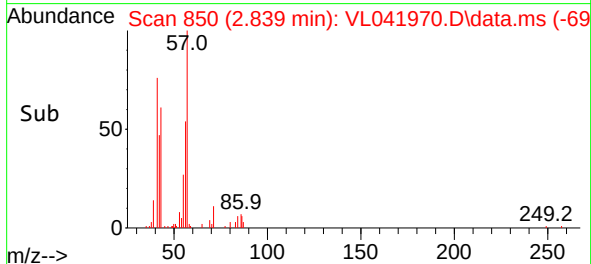
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 7438
Ion Ratio Lower Upper
57 100
41 93.3 73.8 110.8
43 128.7 197.3 295.9
56 58.5 42.7 64.1

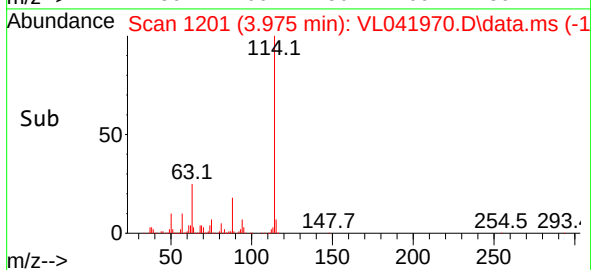
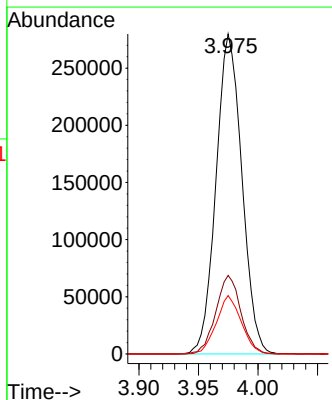
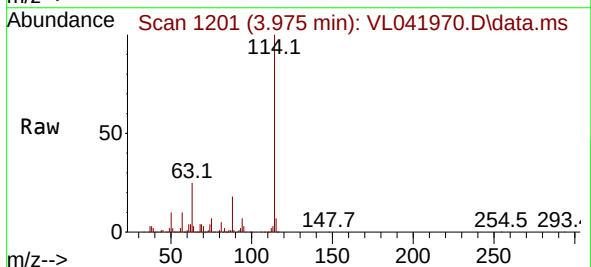
Manual Integrations
APPROVED

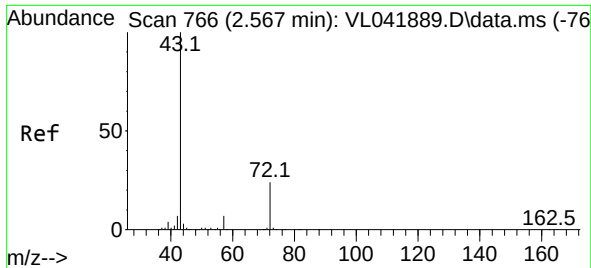
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

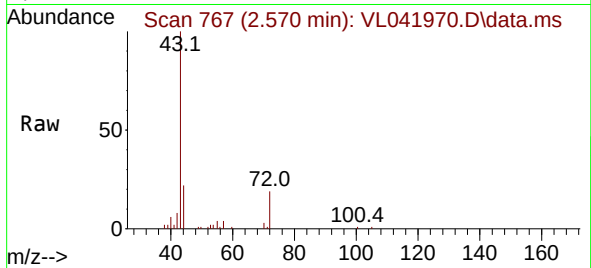
Tgt Ion:114 Resp: 421377
Ion Ratio Lower Upper
114 100
63 23.9 19.8 29.6
88 17.6 14.4 21.6





#34
2-Butanone
Concen: 0.272 ppbv
RT: 2.570 min Scan# 766
Delta R.T. 0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

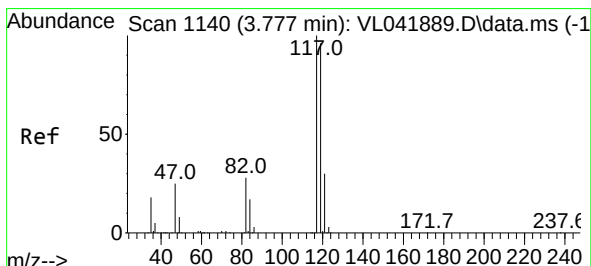
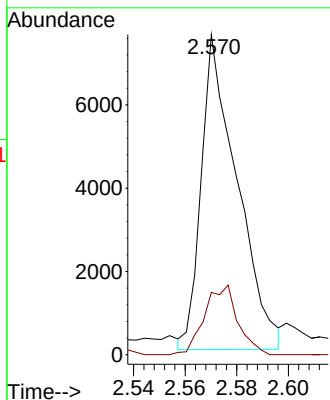
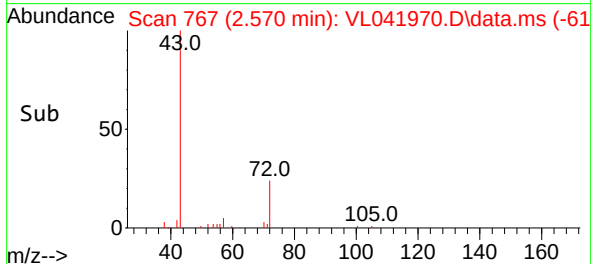
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 7294
Ion Ratio Lower Upper
43 100
72 20.4 18.6 28.0

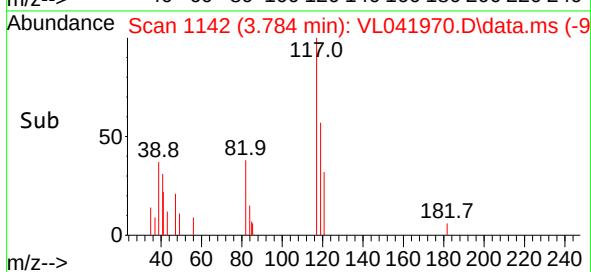
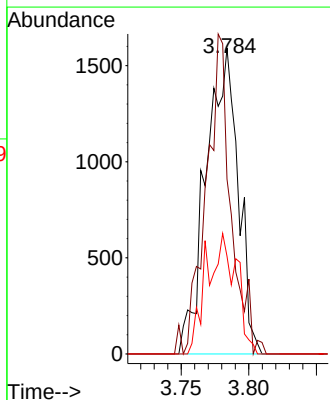
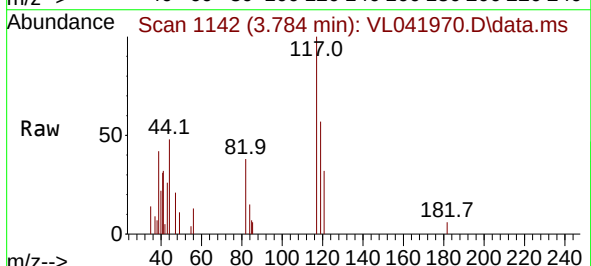
Manual Integrations
APPROVED

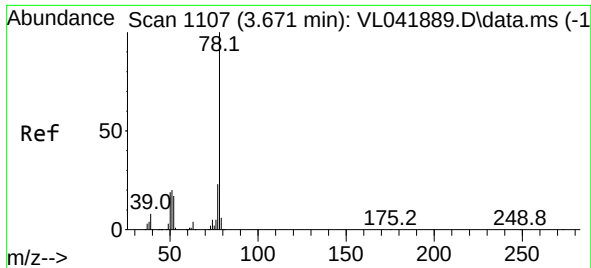
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#35
Carbon Tetrachloride
Concen: 0.099 ppbv m
RT: 3.784 min Scan# 1142
Delta R.T. 0.007 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion:117 Resp: 2627
Ion Ratio Lower Upper
117 100
119 57.2 76.9 115.3#
121 32.0 23.8 35.6





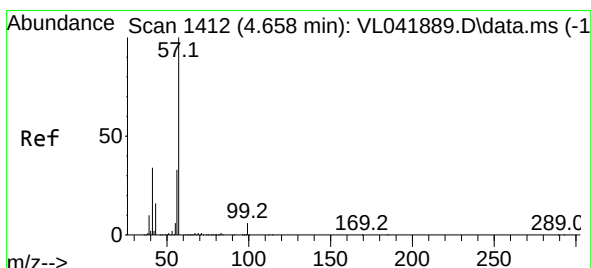
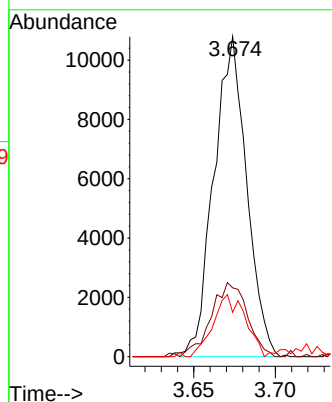
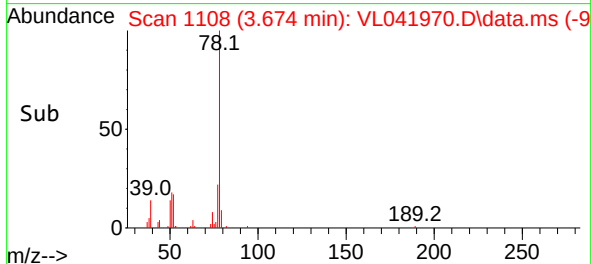
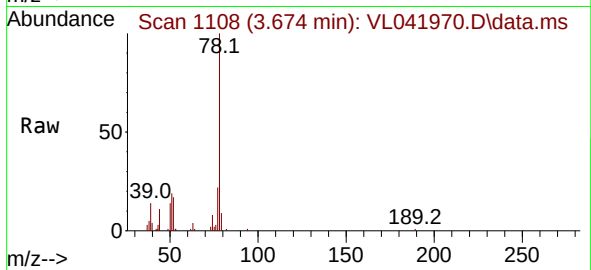
#36
Benzene
Concen: 0.390 ppbv
RT: 3.674 min Scan# 1107
Delta R.T. 0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 78 Resp: 15092
Ion Ratio Lower Upper
78 100
77 21.5 18.1 27.1
50 12.5 15.2 22.8

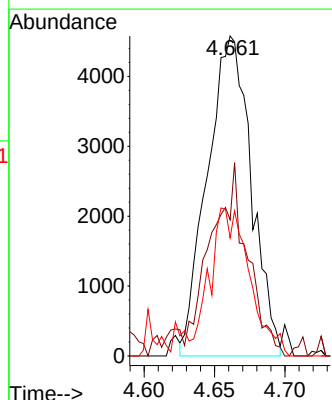
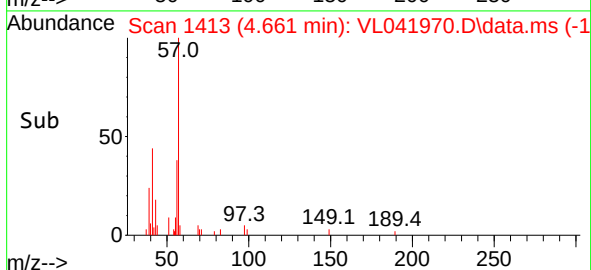
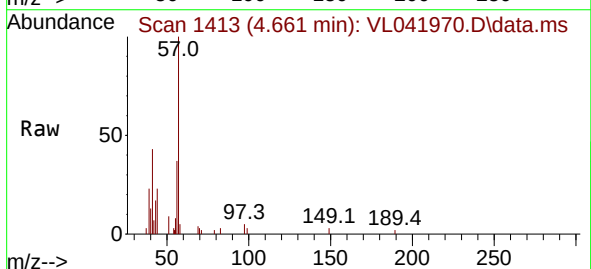
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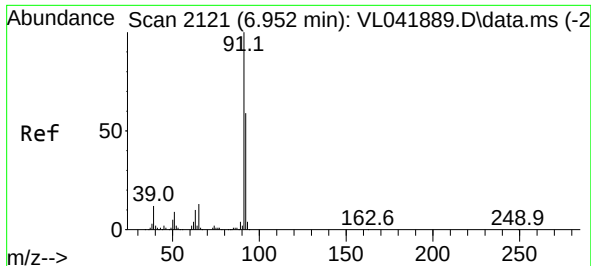
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#44
2,2,4-Trimethylpentane
Concen: 0.159 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. 0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion: 57 Resp: 9955
Ion Ratio Lower Upper
57 100
41 56.1 26.6 40.0#
56 47.6 25.4 38.2#





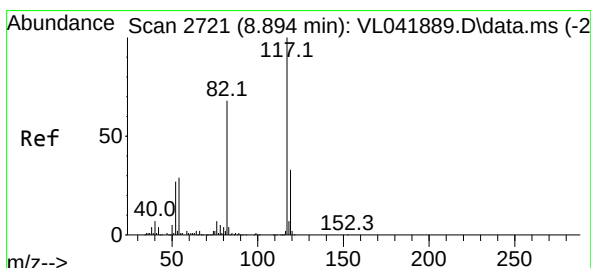
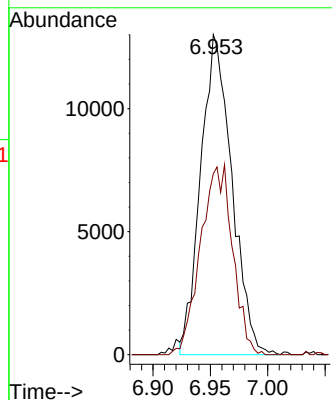
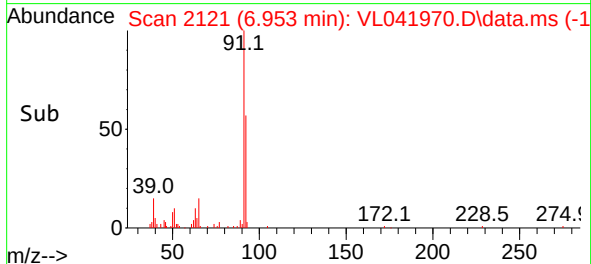
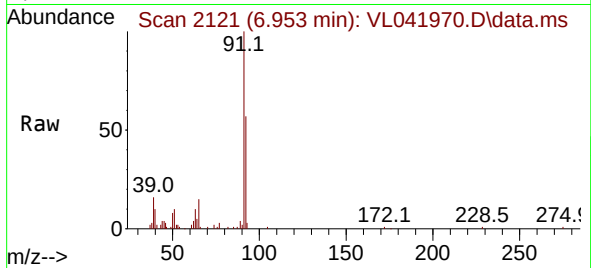
#53
Toluene
Concen: 0.584 ppbv
RT: 6.953 min Scan# 2121
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 24588
Ion Ratio Lower Upper
91 100
92 61.0 47.4 71.0

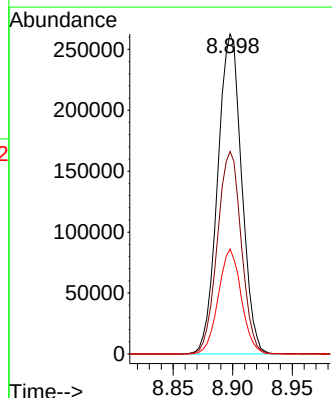
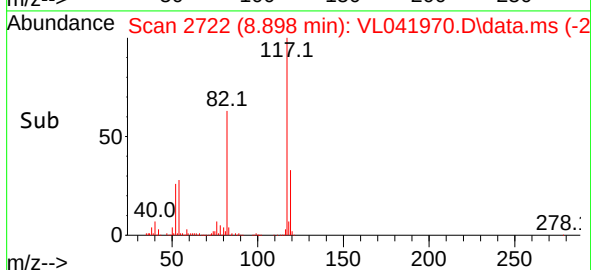
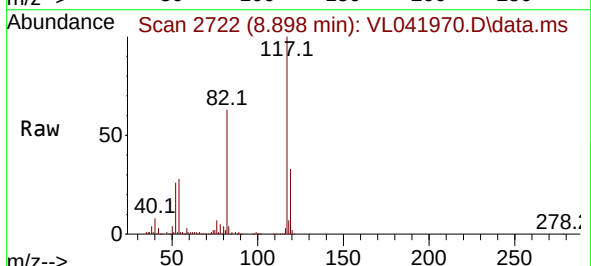
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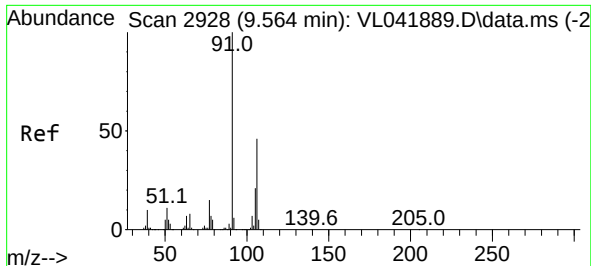
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.003 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

Tgt Ion:117 Resp: 366996
Ion Ratio Lower Upper
117 100
82 63.4 54.2 81.4
119 31.5 25.0 37.6





#59

m/p-Xylene

Concen: 0.259 ppbv

RT: 9.545 min Scan# 2928

Delta R.T. -0.019 min

Lab File: VL041970.D

Acq: 03 Feb 2025 18:15

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 1189

Ion Ratio Lower Upper

91 100

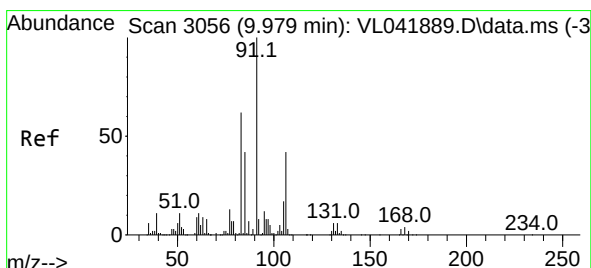
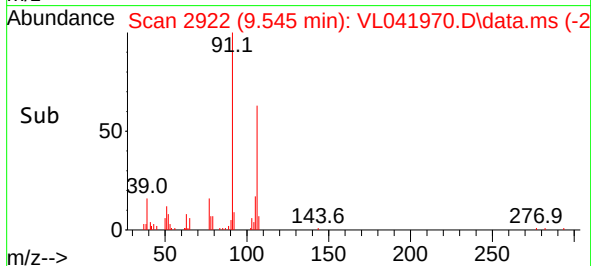
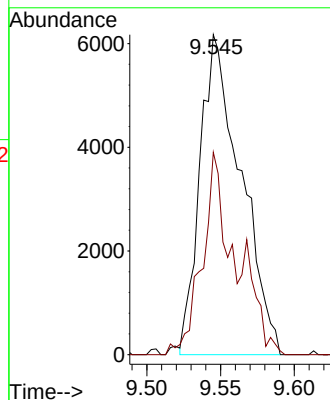
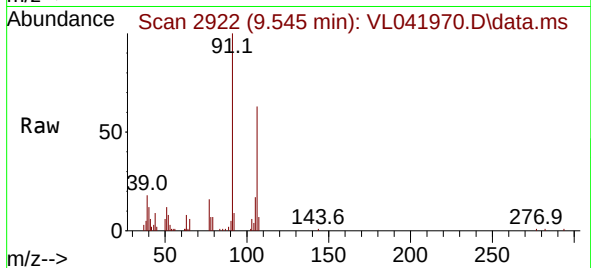
106 51.8 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#60

o-Xylene

Concen: 0.115 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.000 min

Lab File: VL041970.D

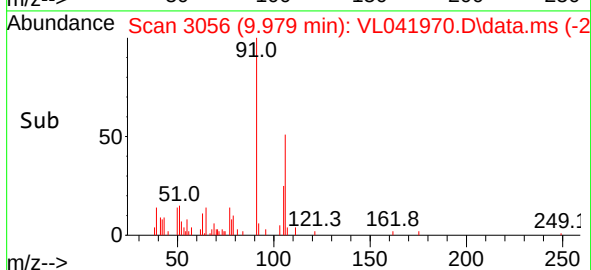
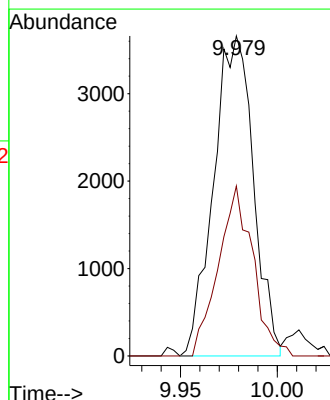
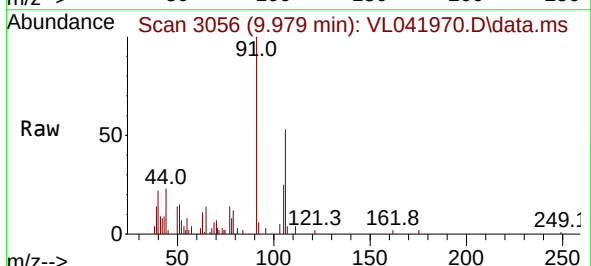
Acq: 03 Feb 2025 18:15

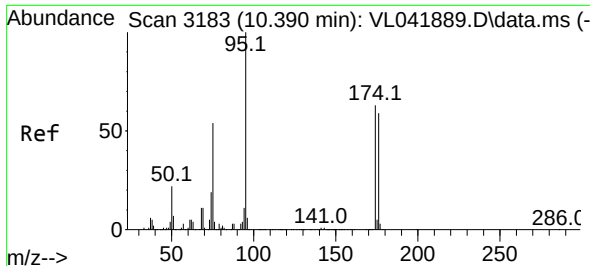
Tgt Ion: 91 Resp: 5246

Ion Ratio Lower Upper

91 100

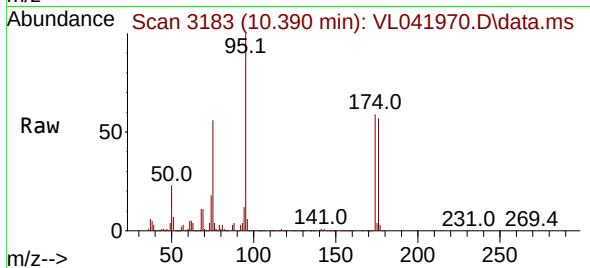
106 46.0 21.3 63.9





#68
1-Bromo-4-Fluorobenzene
Concen: 9.773 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

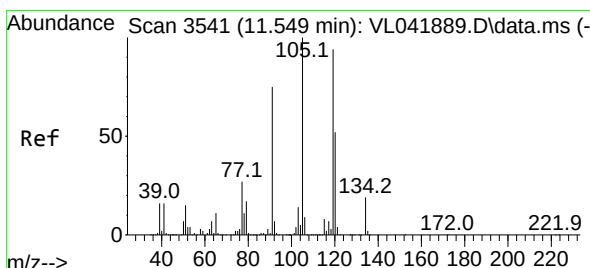
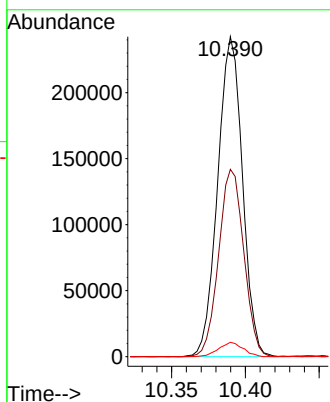
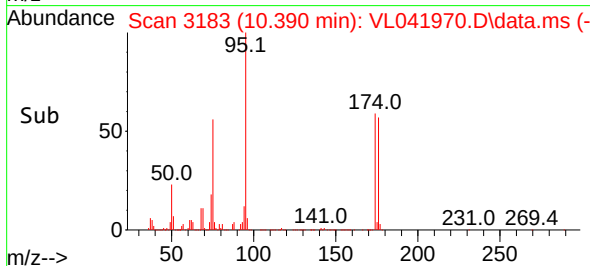
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 95 Resp: 282500
Ion Ratio Lower Upper
95 100
174 59.6 49.0 73.4
175 4.5 3.8 5.8

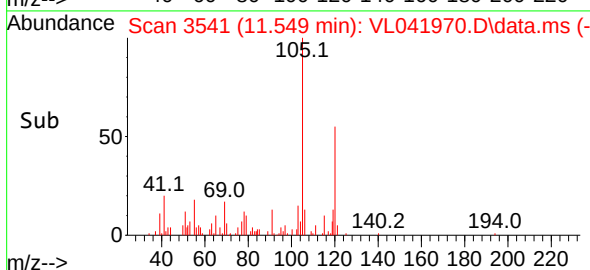
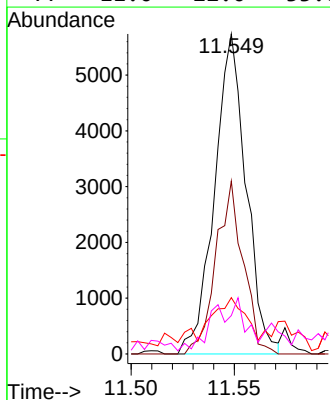
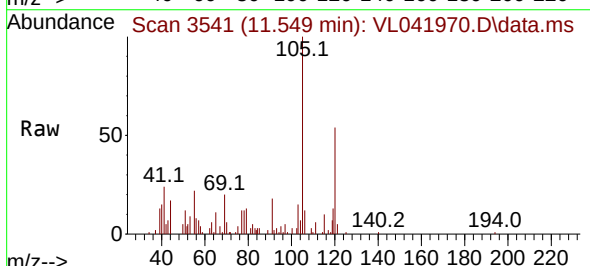
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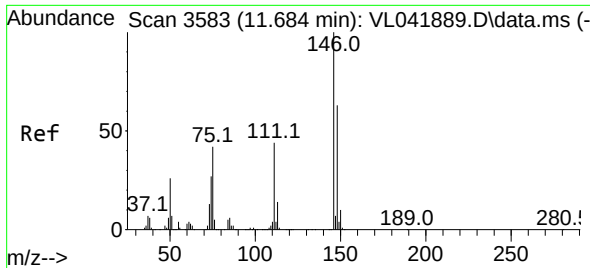
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.117 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.000 min
Lab File: VL041970.D
Acq: 03 Feb 2025 18:15

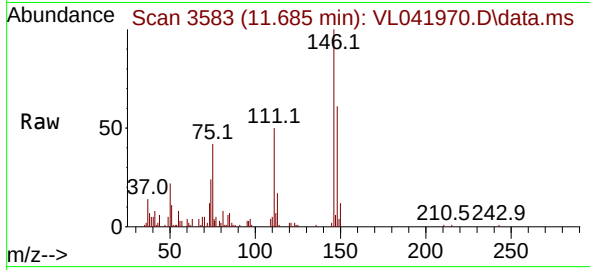
Tgt Ion:105 Resp: 6099
Ion Ratio Lower Upper
105 100
120 54.0 41.4 62.2
91 14.0 60.2 90.2#
77 11.0 22.0 33.0#





#76
 1,4-Dichlorobenzene
 Concen: 0.332 ppbv
 RT: 11.685 min Scan# 3583
 Delta R.T. 0.000 min
 Lab File: VL041970.D
 Acq: 03 Feb 2025 18:15

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	146	Resp:	10034
Ion Ratio	Lower	Upper	
146	100		
111	51.7	22.4	67.0
148	58.6	31.9	95.5

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025

