

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031725\
 Data File : VL042158.D
 Acq On : 17 Mar 2025 15:19
 Operator : SY/MD
 Sample : Q1586-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 557-SG-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/18/2025
 Supervised By :Mahesh Dadoda 03/18/2025

Quant Time: Mar 18 01:26:19 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	2.800	49	163274	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	382025	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	334931	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	264151	10.251	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.500%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.502	85	9601	0.565	ppbv	96
3) Chlorodifluoromethane	1.479	51	8357m	0.352	ppbv	
4) Chloromethane	1.538	50	1815	0.289	ppbv	97
9) Propene	1.489	41	7485	0.774	ppbv	91
10) Heptane	5.001	43	8281m	0.275	ppbv	
11) Trichlorofluoromethane	1.884	101	5041	0.296	ppbv	99
13) Ethanol	1.735	45	403900	658.155	ppbv	92
15) Acetone	1.845	43	218573	15.159	ppbv	96
17) tert-Butyl alcohol	2.059	59	10351	0.574	ppbv	97
19) Isopropyl Alcohol	1.900	45	39394	4.756	ppbv #	1
20) Methylene Chloride	2.068	84	3246	0.595	ppbv #	92
26) Hexane	2.835	57	16293	0.698	ppbv #	38
27) Carbon Disulfide	2.159	76	38336	2.424	ppbv #	65
29) Chloroform	2.861	83	268454	8.549	ppbv	99
30) Cyclohexane	3.878	84	2611m	0.138	ppbv	
31) cis-1,2-Dichloroethene	2.735	61	3117	0.141	ppbv #	89
34) 2-Butanone	2.573	43	38525	1.294	ppbv	98
35) Carbon Tetrachloride	3.781	117	2456	0.093	ppbv #	96
36) Benzene	3.674	78	138238	3.457	ppbv	97
38) Trichloroethene	4.570	130	7745m	0.474	ppbv	
42) Bromodichloromethane	4.506	83	9604m	0.321	ppbv	
52) Tetrachloroethene	8.244	164	179431	13.106	ppbv	97
53) Toluene	6.956	91	9027m	0.202	ppbv	
59) m/p-Xylene	9.552	91	8380m	0.171	ppbv	
62) Isopropylbenzene	10.555	105	45133	0.611	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	20132	0.342	ppbv #	63
79) Naphthalene	13.526	128	31084	0.770	ppbv #	93

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

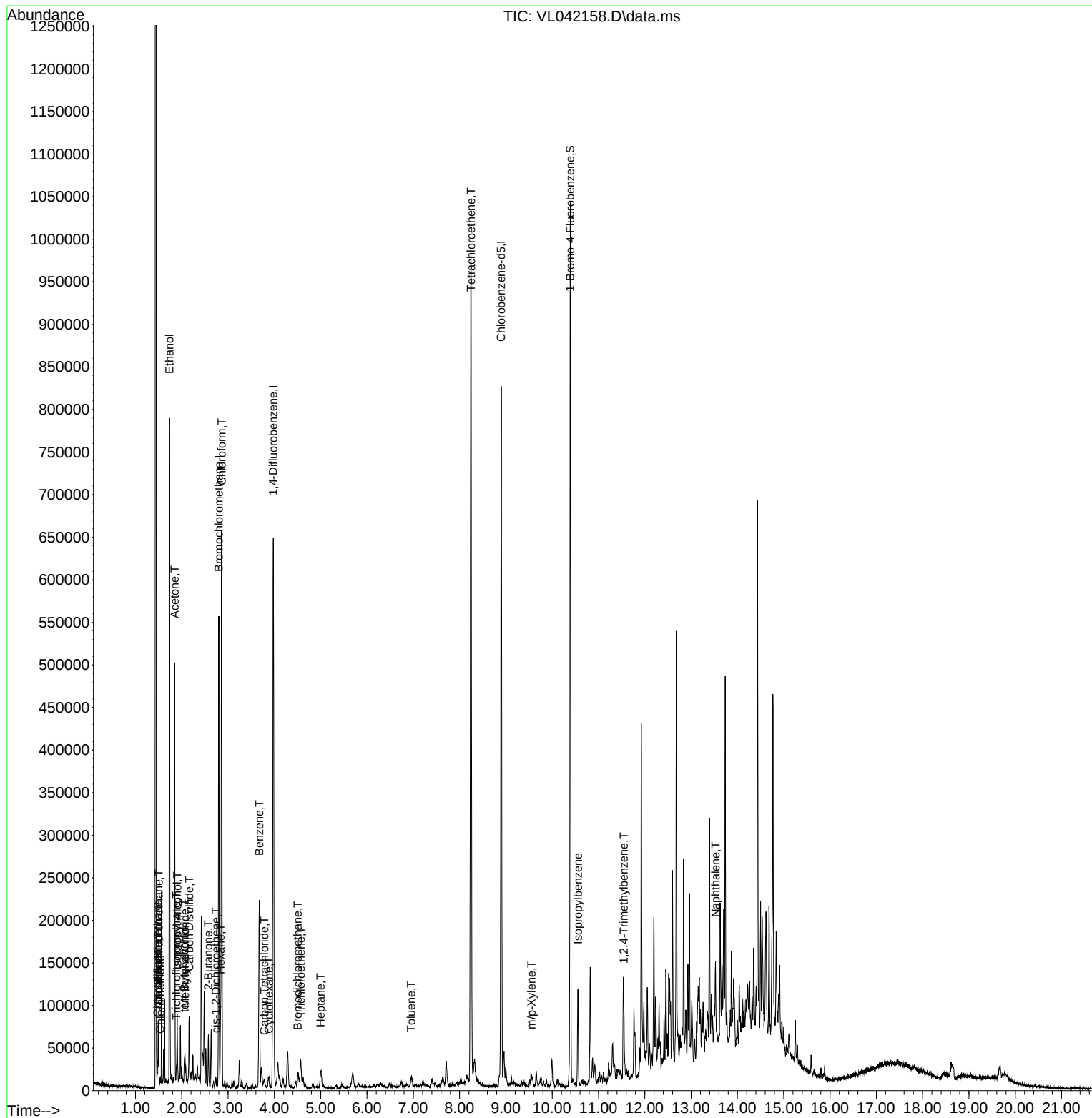
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031725\
Data File : VL042158.D
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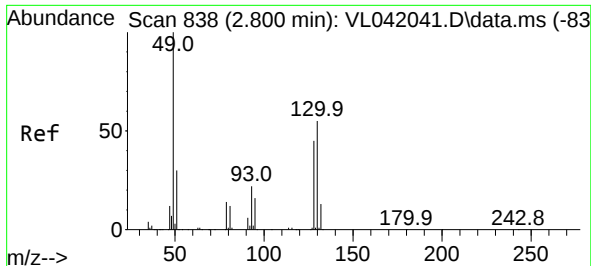
Instrument :
MSVOA_L
ClientSampleId :
557-SG-2

Quant Time: Mar 18 01:26:19 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

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/18/2025
Supervised By : Mahesh Dadoda 03/18/2025





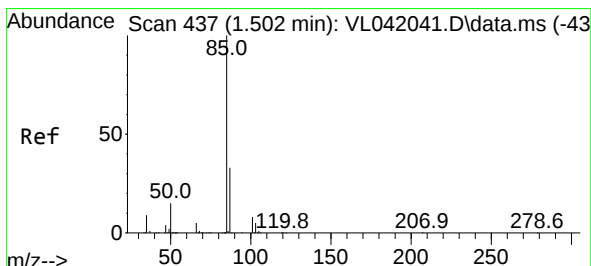
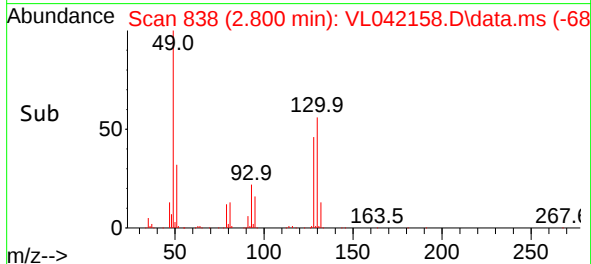
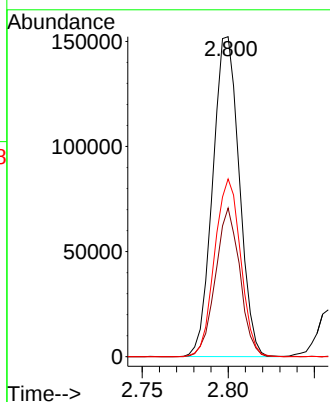
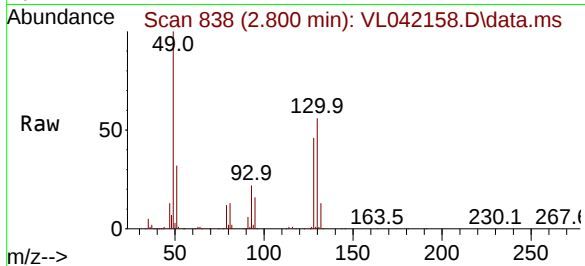
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 838
Delta R.T. -0.000 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

Instrument :
MSVOA_L
ClientSampleId :
557-SG-2

Tgt Ion: 49 Resp: 163274
Ion Ratio Lower Upper
49 100
128 42.9 21.6 64.8
130 54.4 27.8 83.4

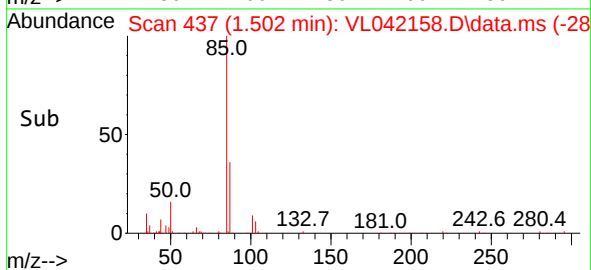
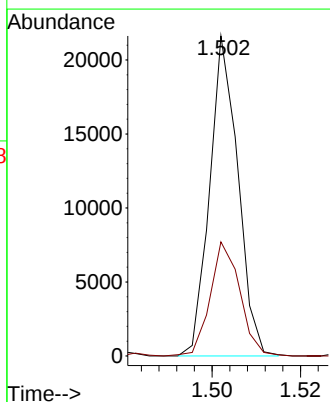
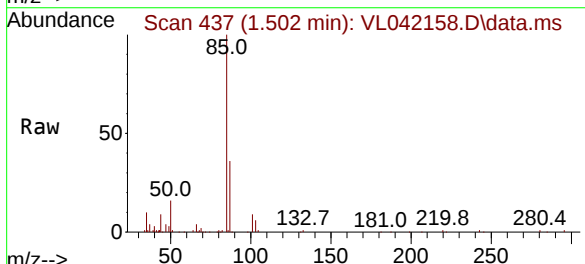
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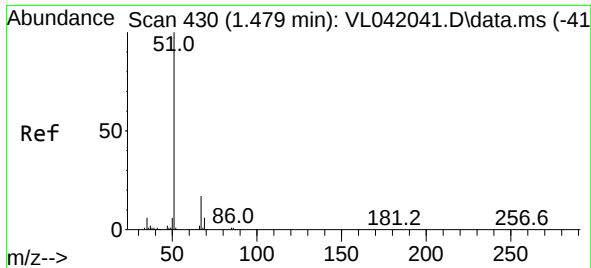
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Supervised By :Mahesh Dadoda 03/18/2025



#2
Dichlorodifluoromethane
Concen: 0.565 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

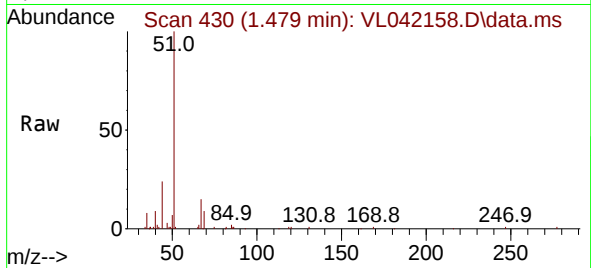
Tgt Ion: 85 Resp: 9601
Ion Ratio Lower Upper
85 100
87 35.3 26.4 39.6





#3
Chlorodifluoromethane
Concen: 0.352 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

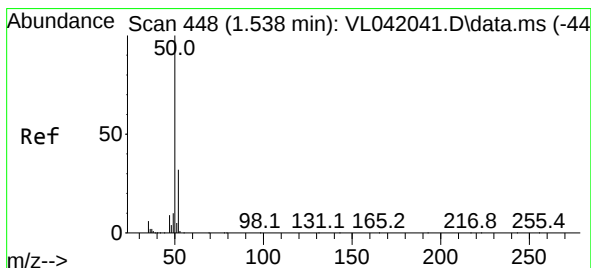
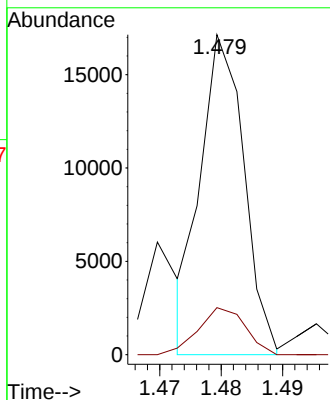
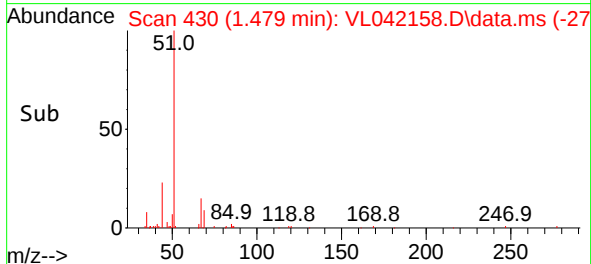
Instrument :
MSVOA_L
ClientSampleId :
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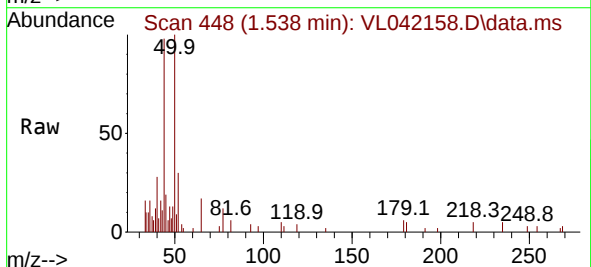
Tgt Ion: 51 Resp: 835
Ion Ratio Lower Upper
51 100
67 16.8 13.7 20.5

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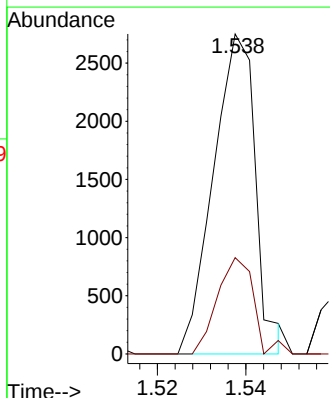
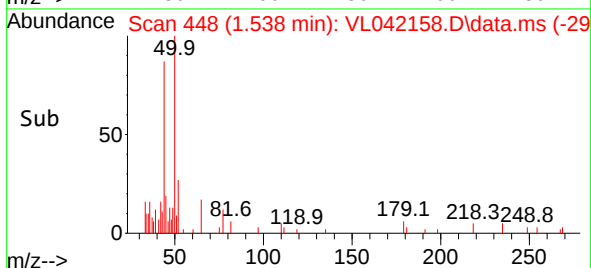
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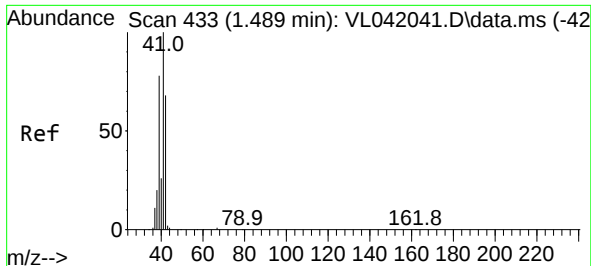


#4
Chloromethane
Concen: 0.289 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19



Tgt Ion: 50 Resp: 1815
Ion Ratio Lower Upper
50 100
52 30.1 25.4 38.0





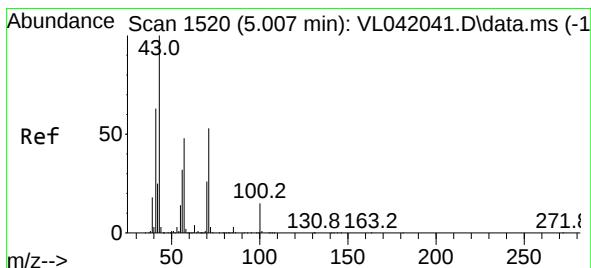
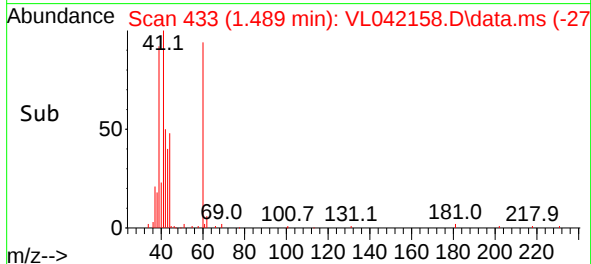
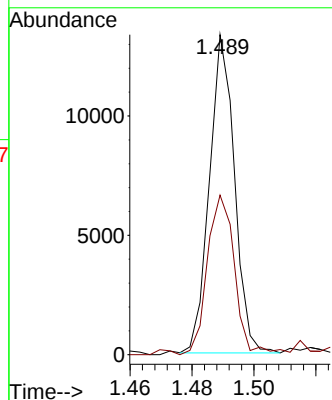
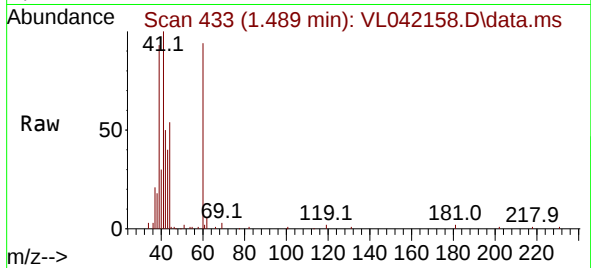
#9
 Propene
 Concen: 0.774 ppbv
 RT: 1.489 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042158.D
 Acq: 17 Mar 2025 15:19

Instrument :
 MSVOA_L
 ClientSampleId :
 557-SG-2

Tgt Ion: 41 Resp: 748
 Ion Ratio Lower Upper
 41 100
 42 62.5 55.8 83.6

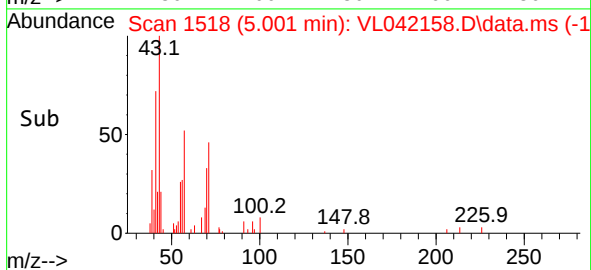
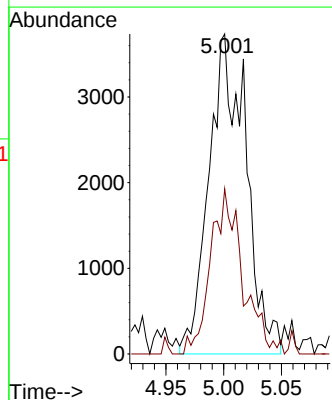
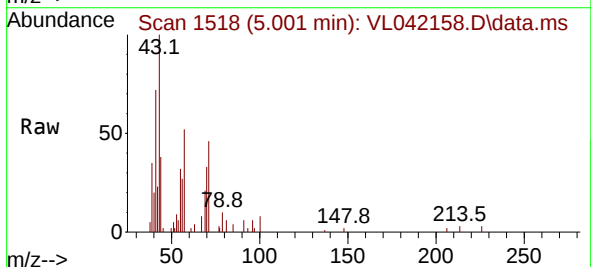
Manual Integrations
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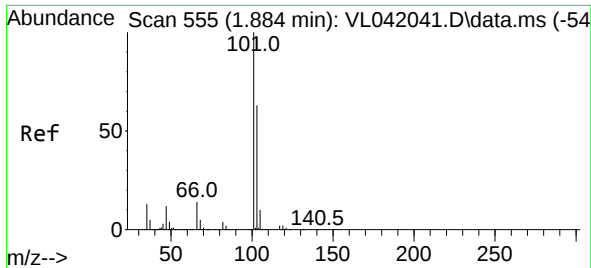
Reviewed By :Semsettin Yesilyurt 03/18/2025
 Supervised By :Mahesh Dadoda 03/18/2025



#10
 Heptane
 Concen: 0.275 ppbv m
 RT: 5.001 min Scan# 1518
 Delta R.T. -0.007 min
 Lab File: VL042158.D
 Acq: 17 Mar 2025 15:19

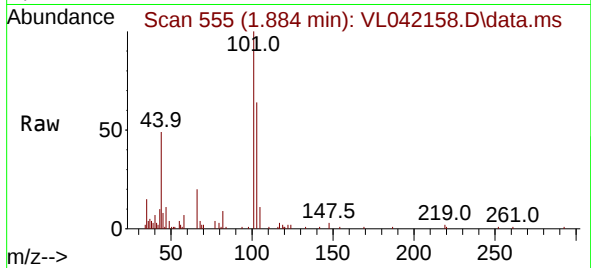
Tgt Ion: 43 Resp: 8281
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.0#





#11
Trichlorofluoromethane
Concen: 0.296 ppbv
RT: 1.884 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

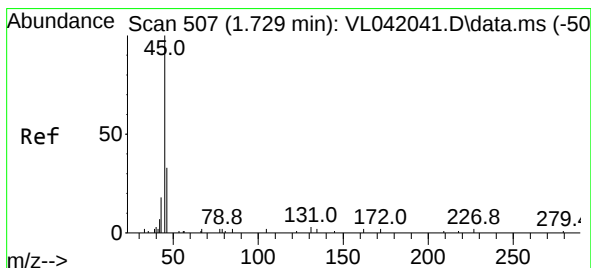
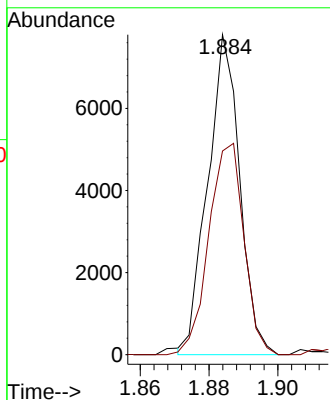
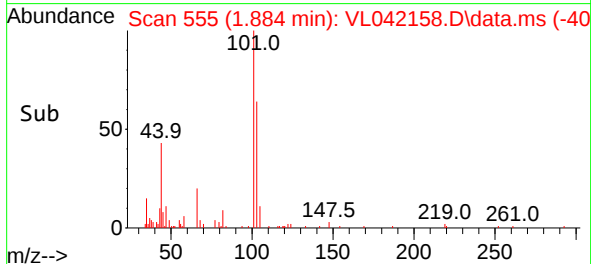
Instrument :
MSVOA_L
ClientSampleId :
557-SG-2



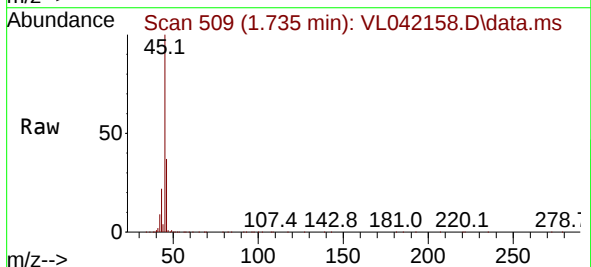
Tgt Ion:101 Resp: 504
Ion Ratio Lower Upper
101 100
103 63.6 50.6 75.8

Manual Integrations
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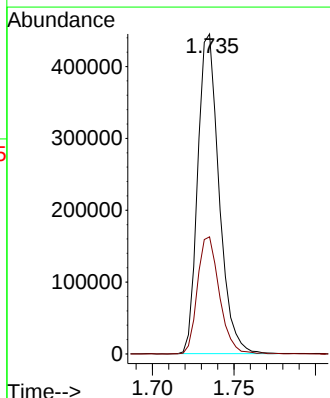
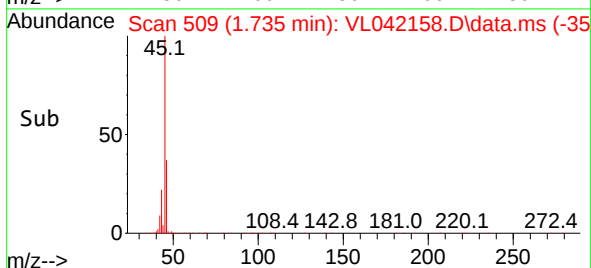
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Supervised By :Mahesh Dadoda 03/18/2025

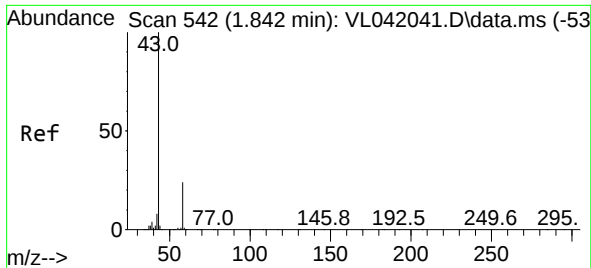


#13
Ethanol
Concen: 658.155 ppbv
RT: 1.735 min Scan# 509
Delta R.T. 0.006 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19



Tgt Ion: 45 Resp: 403900
Ion Ratio Lower Upper
45 100
46 37.8 17.1 68.3





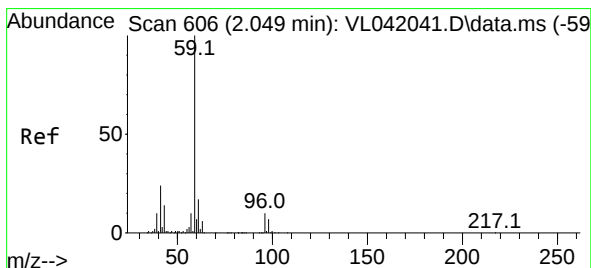
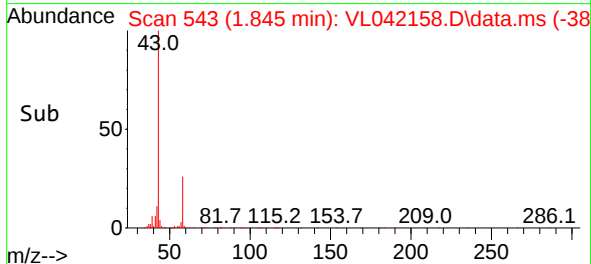
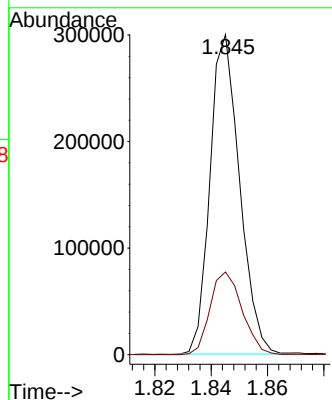
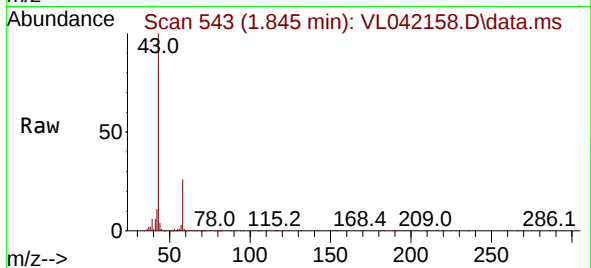
#15
Acetone
Concen: 15.159 ppbv
RT: 1.845 min Scan# 542
Delta R.T. 0.003 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

Instrument :
MSVOA_1
ClientSampleId :
557-SG-2

Tgt Ion: 43 Resp: 21857
Ion Ratio Lower Upper
43 100
58 28.1 20.7 31.1

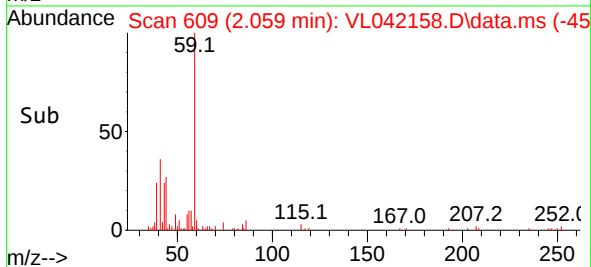
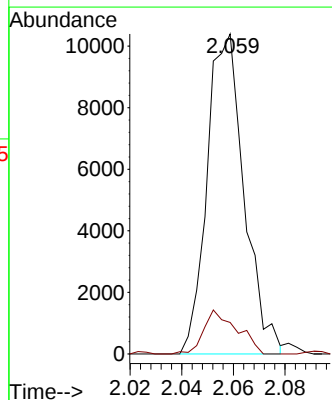
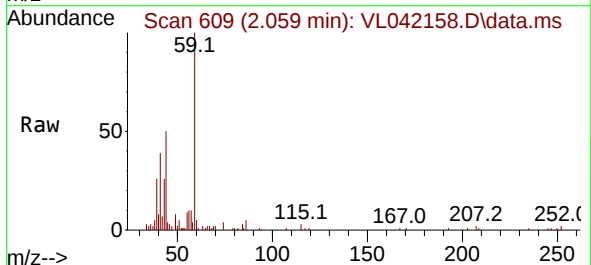
Manual Integrations
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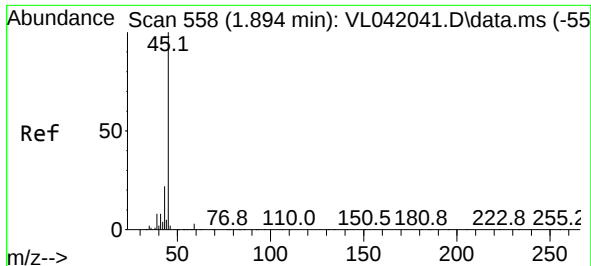
Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025



#17
tert-Butyl alcohol
Concen: 0.574 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.010 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

Tgt Ion: 59 Resp: 10351
Ion Ratio Lower Upper
59 100
57 12.6 9.3 13.9





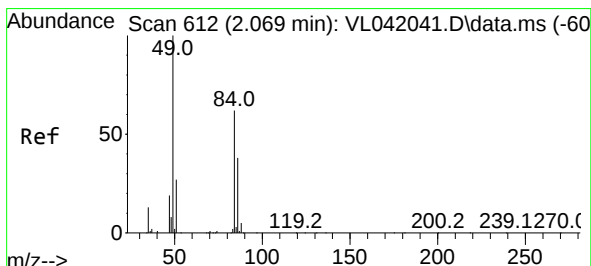
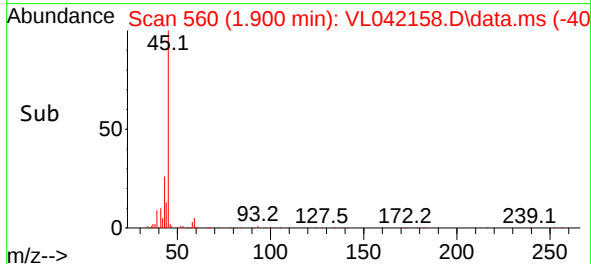
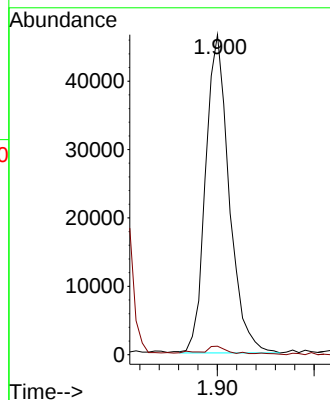
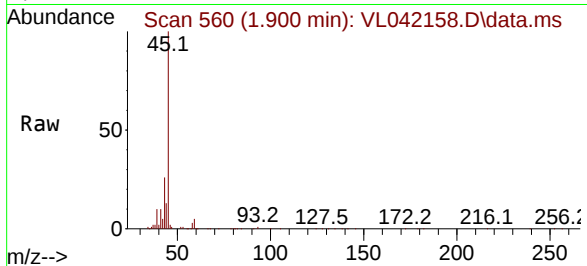
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Isopropyl Alcohol
Concen: 4.756 ppbv
RT: 1.900 min Scan# 510
Delta R.T. 0.006 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

Instrument :
MSVOA_1
ClientSampleId :
557-SG-2

Tgt Ion: 45 Resp: 39394
Ion Ratio Lower Upper
45 100
58 156.0 35.3 52.9

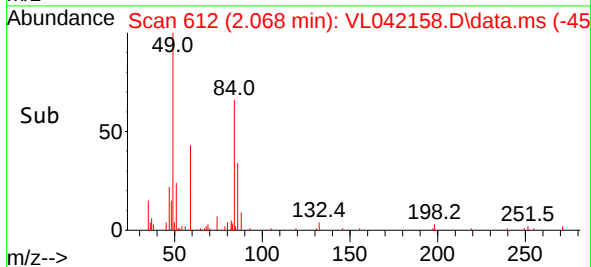
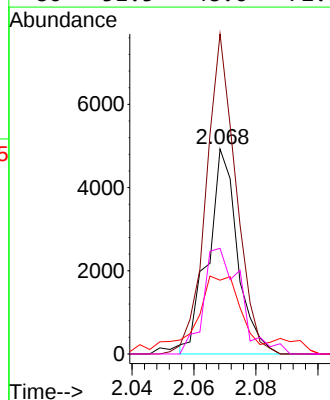
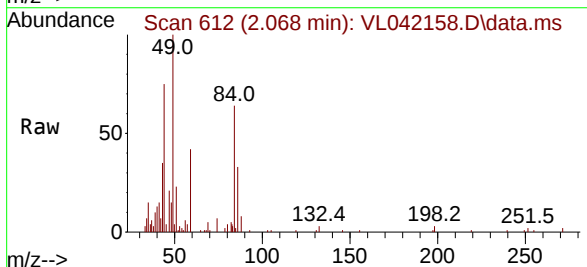
Manual Integrations
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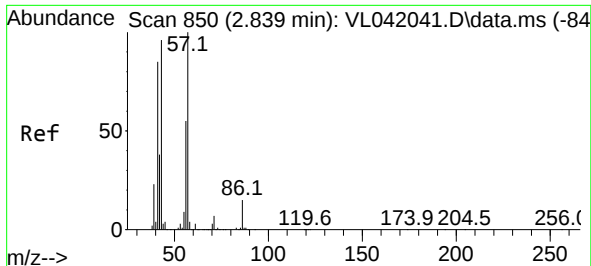
Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025



#20
Methylene Chloride
Concen: 0.595 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

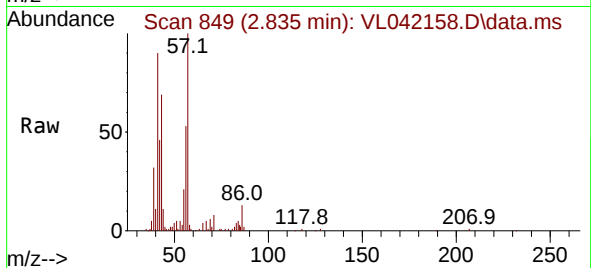
Tgt Ion: 84 Resp: 3246
Ion Ratio Lower Upper
84 100
49 161.7 130.0 195.0
51 29.1 37.4 56.0#
86 51.5 48.6 72.8





#26
Hexane
Concen: 0.698 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

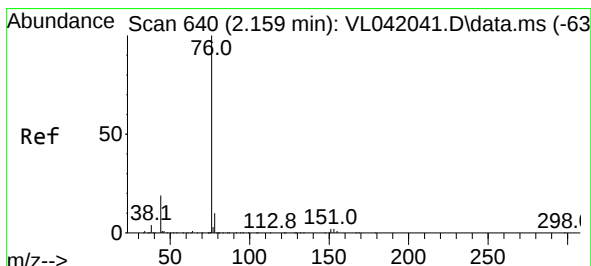
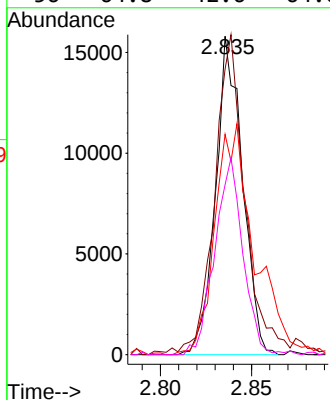
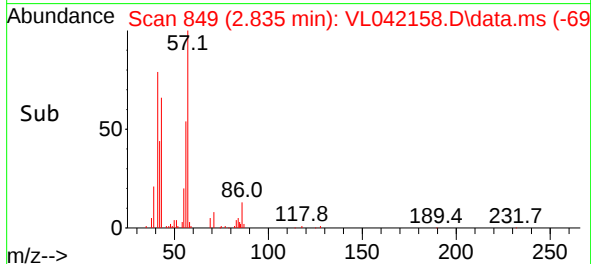
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557-SG-2



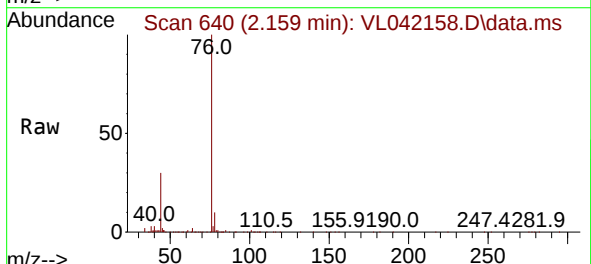
Tgt Ion: 57 Resp: 16293
Ion Ratio Lower Upper
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41 116.7 70.6 106.0
43 105.7 199.4 299.0
56 64.8 42.6 64.0

Manual Integrations
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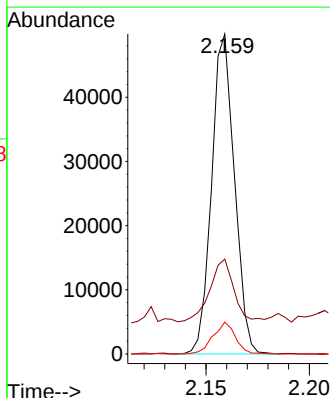
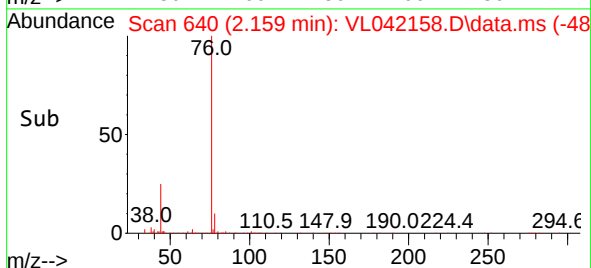
Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025

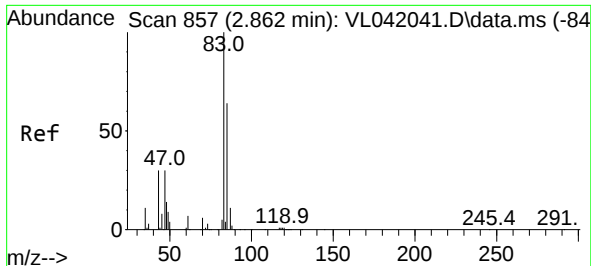


#27
Carbon Disulfide
Concen: 2.424 ppbv
RT: 2.159 min Scan# 640
Delta R.T. -0.000 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19



Tgt Ion: 76 Resp: 38336
Ion Ratio Lower Upper
76 100
44 44.3 16.2 24.2
78 10.0 9.4 14.0





#29

Chloroform

Concen: 8.549 ppbv

RT: 2.861 min Scan# 857

Delta R.T. -0.000 min

Lab File: VL042158.D

Acq: 17 Mar 2025 15:19

Instrument :

MSVOA_L

ClientSampleId :

557-SG-2

Tgt Ion: 83 Resp: 268454

Ion Ratio Lower Upper

83 100

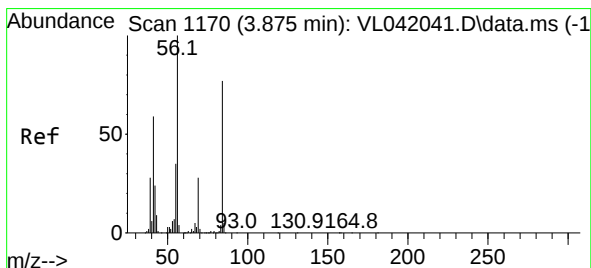
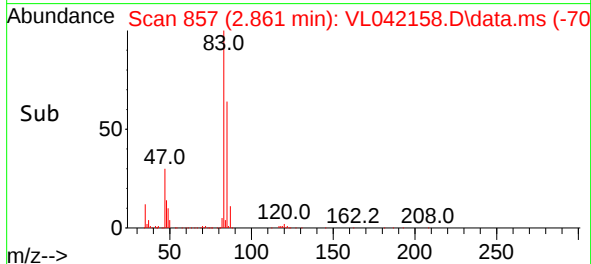
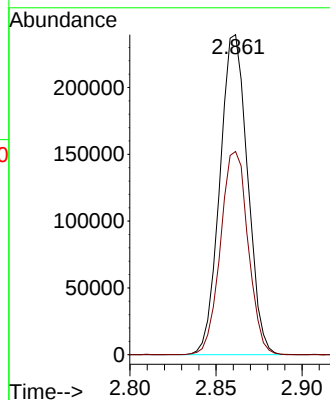
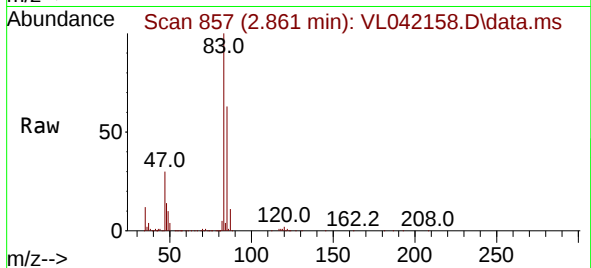
85 63.4 51.2 76.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/18/2025

Supervised By :Mahesh Dadoda 03/18/2025



#30

Cyclohexane

Concen: 0.138 ppbv m

RT: 3.878 min Scan# 1171

Delta R.T. 0.003 min

Lab File: VL042158.D

Acq: 17 Mar 2025 15:19

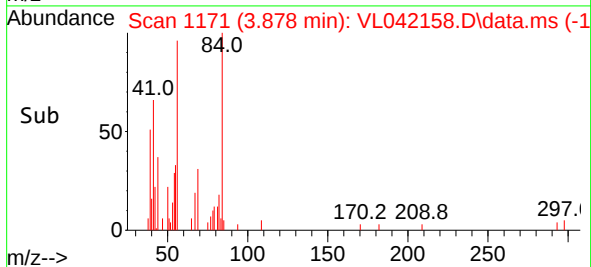
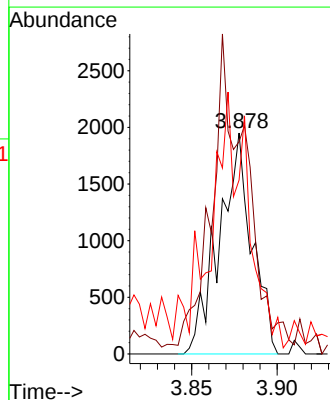
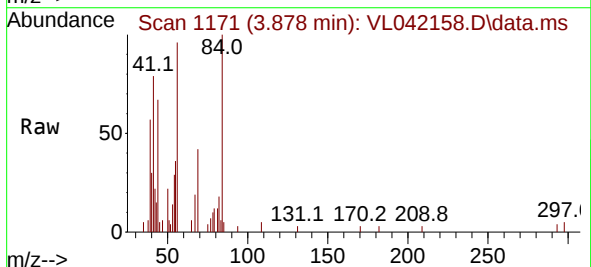
Tgt Ion: 84 Resp: 2611

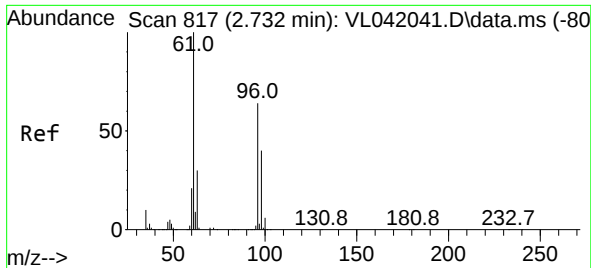
Ion Ratio Lower Upper

84 100

56 0.0 101.5 152.3#

41 0.0 62.6 93.8#





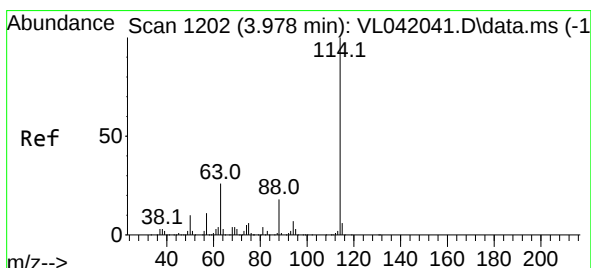
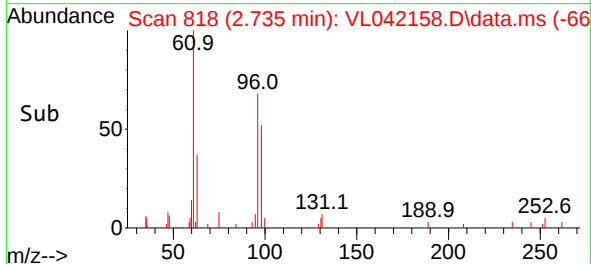
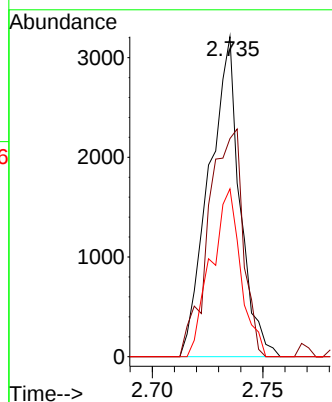
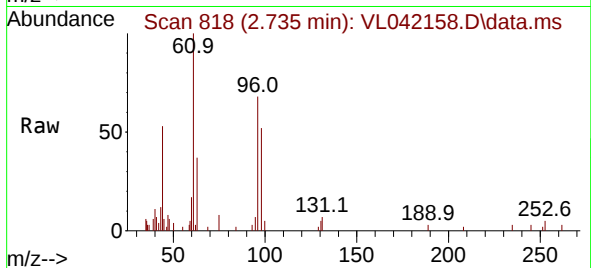
#31
 cis-1,2-Dichloroethene
 Concen: 0.141 ppbv
 RT: 2.735 min Scan# 817
 Delta R.T. 0.003 min
 Lab File: VL042158.D
 Acq: 17 Mar 2025 15:19

Instrument :
 MSVOA_L
 ClientSampleId :
 557-SG-2

Tgt Ion: 61	Resp: 311
Ion Ratio	Lower Upper
61	100
96	68.2 51.5 77.3
98	52.5 32.0 48.0

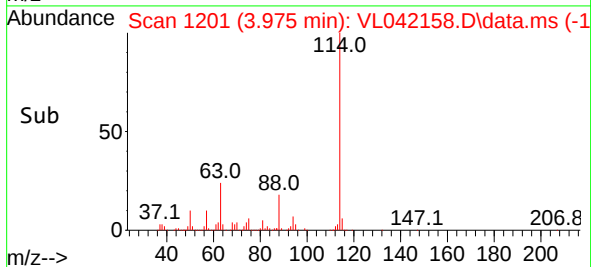
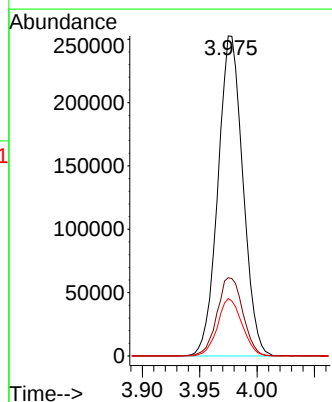
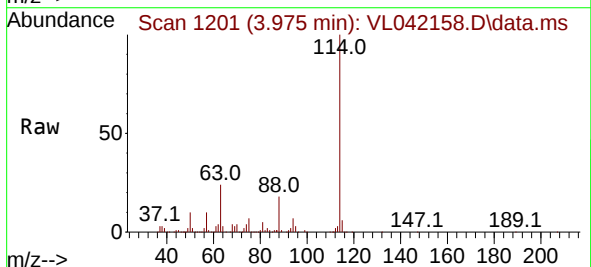
Manual Integrations
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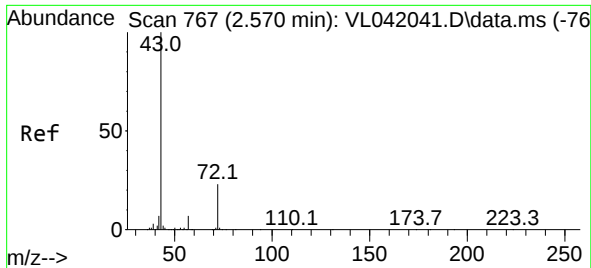
Reviewed By :Semsettin Yesilyurt 03/18/2025
 Supervised By :Mahesh Dadoda 03/18/2025



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.975 min Scan# 1201
 Delta R.T. -0.003 min
 Lab File: VL042158.D
 Acq: 17 Mar 2025 15:19

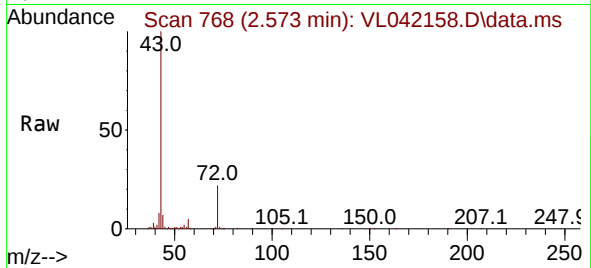
Tgt Ion: 114	Resp: 382025
Ion Ratio	Lower Upper
114	100
63	25.3 20.1 30.1
88	17.6 14.3 21.5





#34
2-Butanone
Concen: 1.294 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.003 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

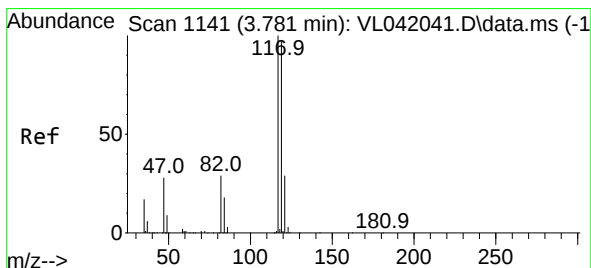
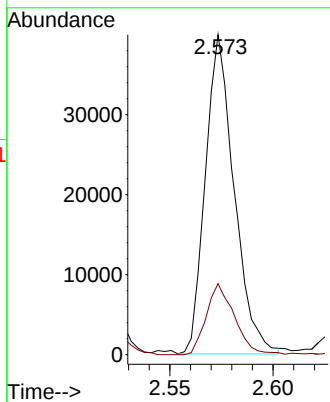
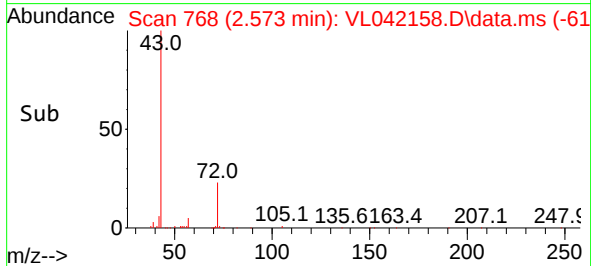
Instrument :
MSVOA_L
ClientSampleId :
557-SG-2



Tgt Ion: 43 Resp: 3852
Ion Ratio Lower Upper
43 100
72 22.2 18.5 27.7

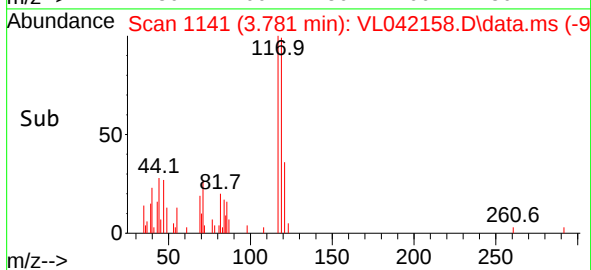
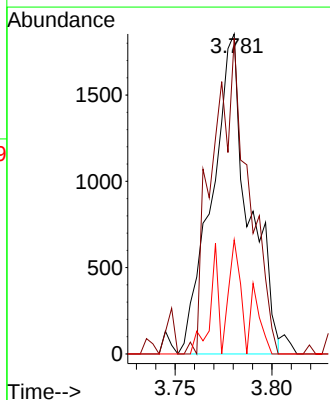
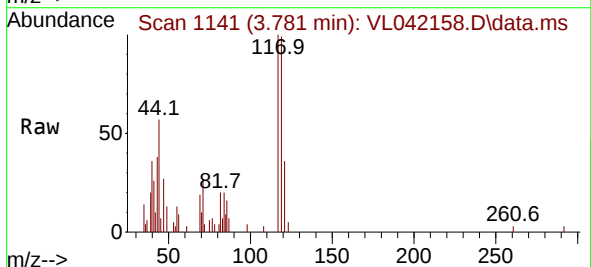
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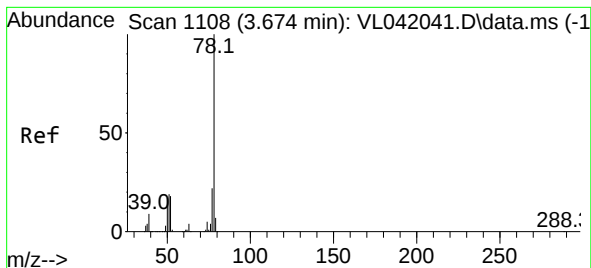
Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025



#35
Carbon Tetrachloride
Concen: 0.093 ppbv
RT: 3.781 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

Tgt Ion:117 Resp: 2456
Ion Ratio Lower Upper
117 100
119 98.7 77.8 116.8
121 35.7 23.4 35.0#





#36

Benzene

Concen: 3.457 ppbv

RT: 3.674 min Scan# 1108

Delta R.T. -0.000 min

Lab File: VL042158.D

Acq: 17 Mar 2025 15:19

Instrument :

MSVOA_L

ClientSampleId :

557-SG-2

Tgt Ion: 78 Resp: 138238

Ion Ratio Lower Upper

78 100

77 24.1 17.7 26.5

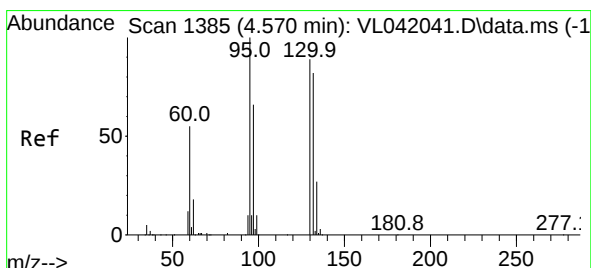
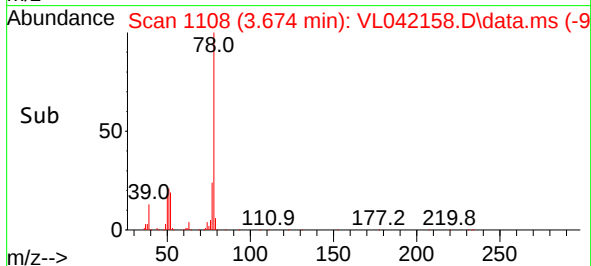
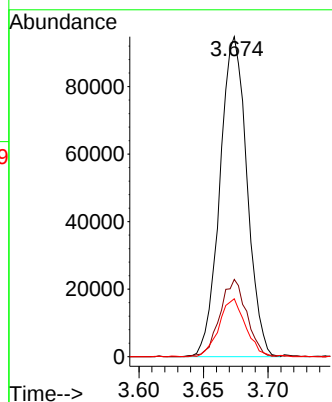
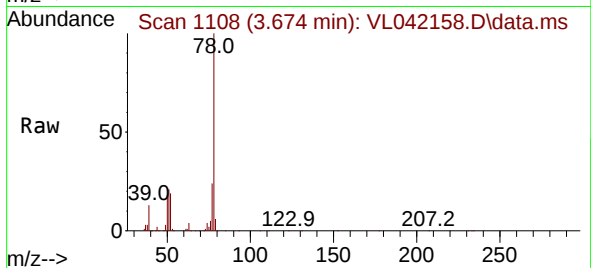
50 18.1 13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/18/2025

Supervised By :Mahesh Dadoda 03/18/2025



#38

Trichloroethene

Concen: 0.474 ppbv m

RT: 4.570 min Scan# 1385

Delta R.T. -0.000 min

Lab File: VL042158.D

Acq: 17 Mar 2025 15:19

Tgt Ion:130 Resp: 7745

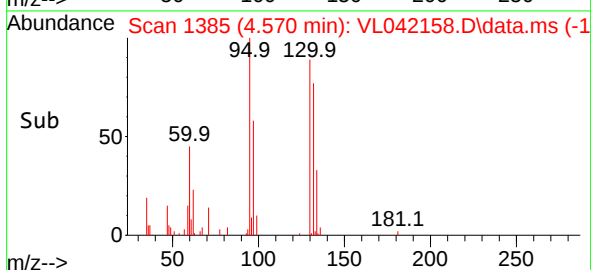
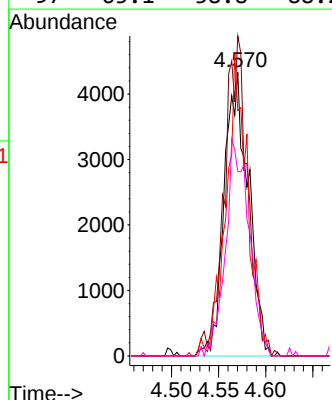
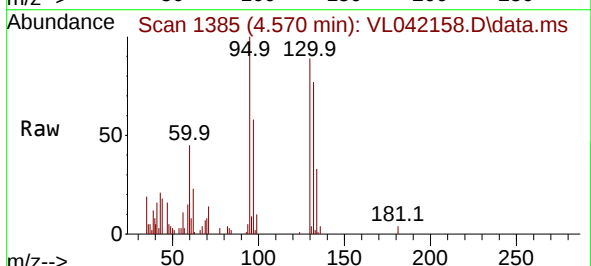
Ion Ratio Lower Upper

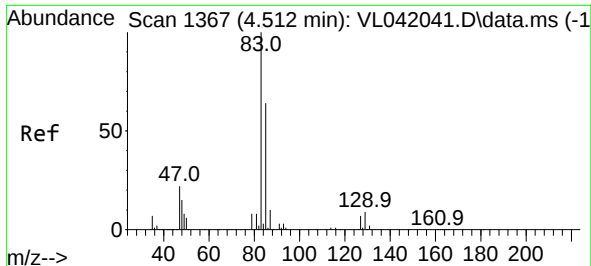
130 100

95 112.8 89.5 134.3

132 86.5 73.8 110.6

97 65.1 58.8 88.2





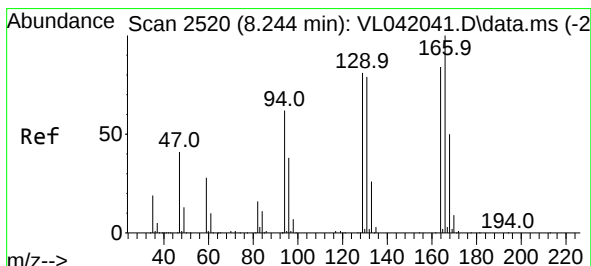
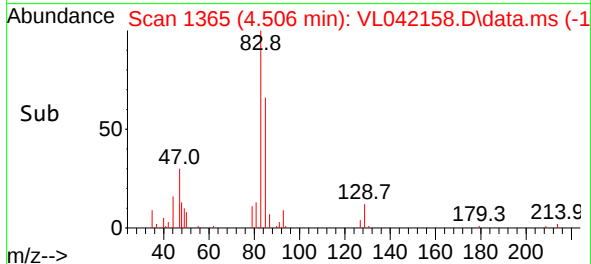
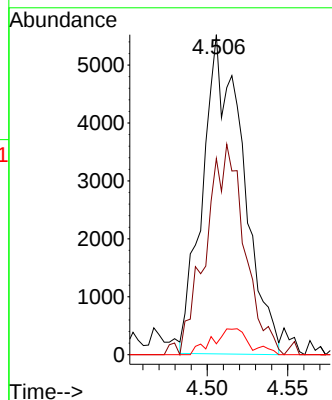
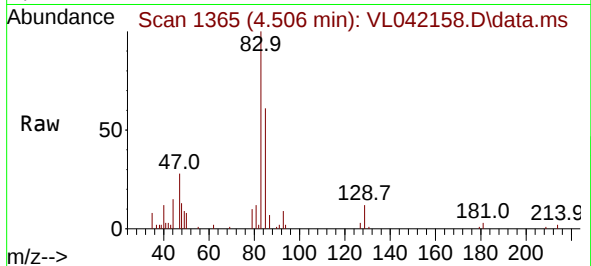
#42
Bromodichloromethane
Concen: 0.321 ppbv m
RT: 4.506 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

Instrument :
MSVOA_L
ClientSampleId :
557-SG-2

Tgt Ion: 83 Resp: 9604
Ion Ratio Lower Upper
83 100
85 61.3 51.4 77.2
127 3.4 5.8 8.6

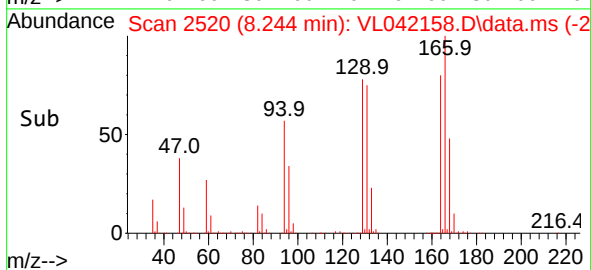
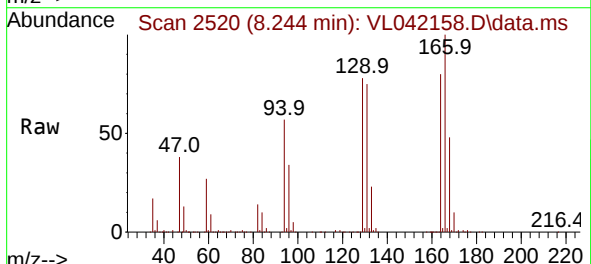
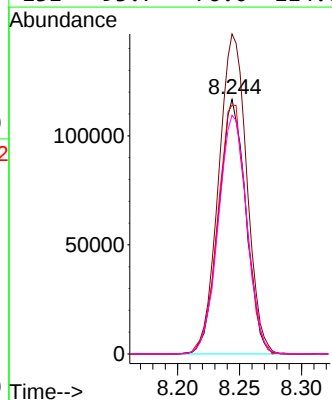
Manual Integrations
APPROVED

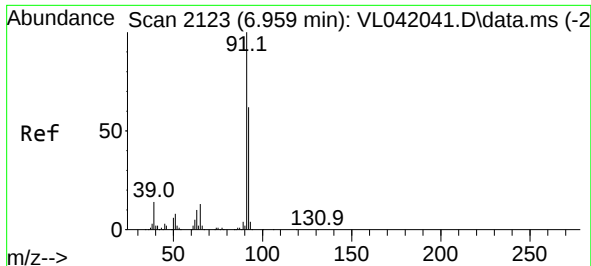
Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025



#52
Tetrachloroethene
Concen: 13.106 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

Tgt Ion:164 Resp: 179431
Ion Ratio Lower Upper
164 100
166 125.6 95.7 143.5
129 97.7 77.1 115.7
131 93.7 76.0 114.0





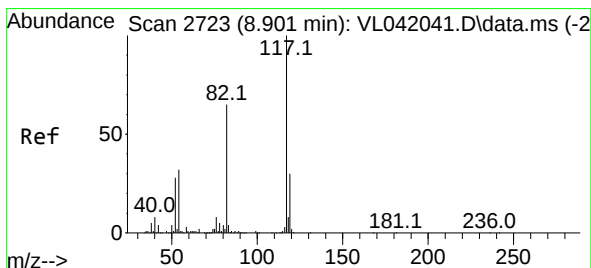
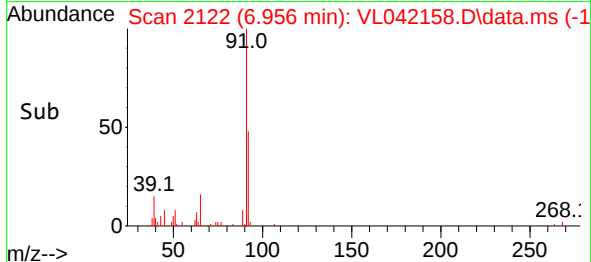
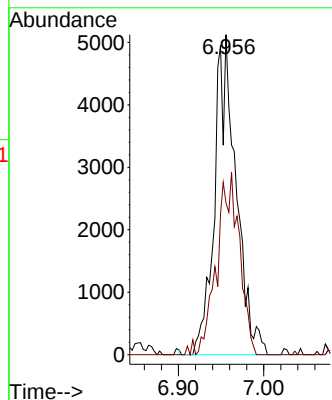
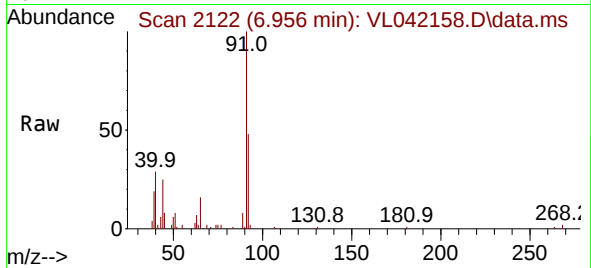
#53
Toluene
Concen: 0.202 ppbv m
RT: 6.956 min Scan# 2123
Delta R.T. -0.003 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

Instrument :
MSVOA_L
ClientSampleId :
557-SG-2

Tgt Ion: 91 Resp: 902
Ion Ratio Lower Upper
91 100
92 0.0 49.0 73.6

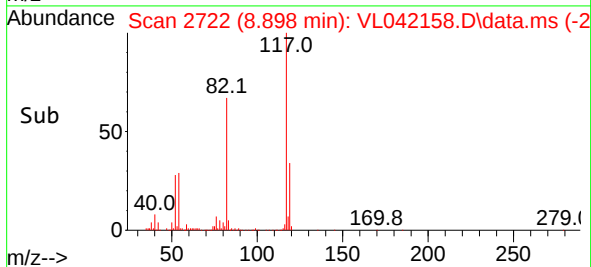
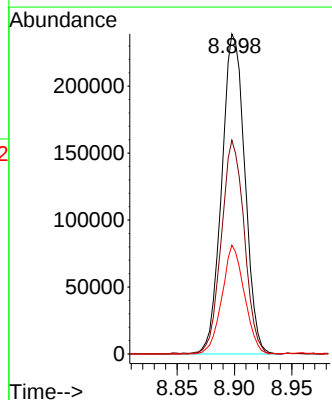
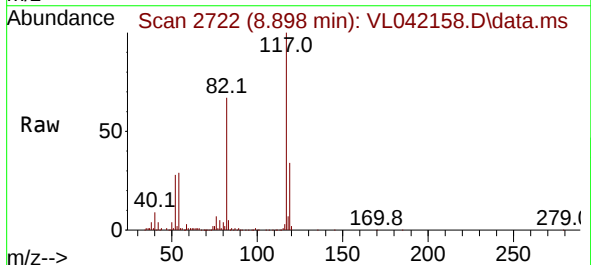
Manual Integrations
APPROVED

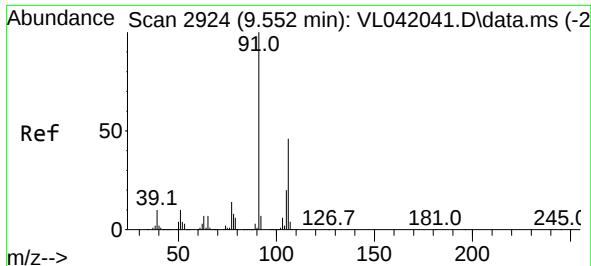
Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

Tgt Ion:117 Resp: 334931
Ion Ratio Lower Upper
117 100
82 66.5 55.0 82.6
119 33.0 25.9 38.9





#59

m/p-Xylene

Concen: 0.171 ppbv m

RT: 9.552 min Scan# 2924

Delta R.T. -0.000 min

Lab File: VL042158.D

Acq: 17 Mar 2025 15:19

Instrument :

MSVOA_L

ClientSampleId :

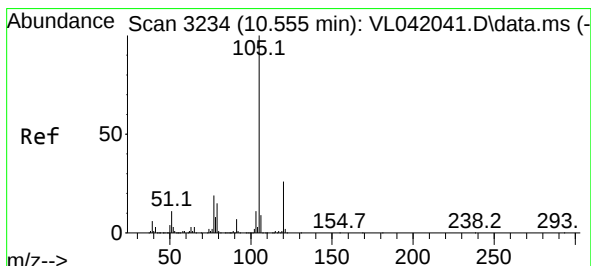
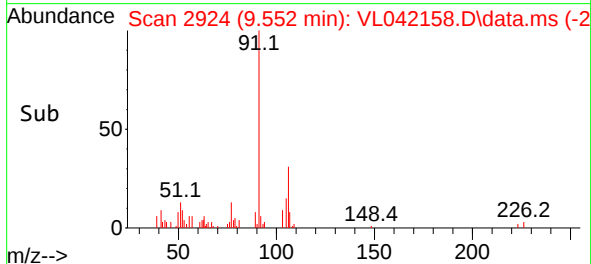
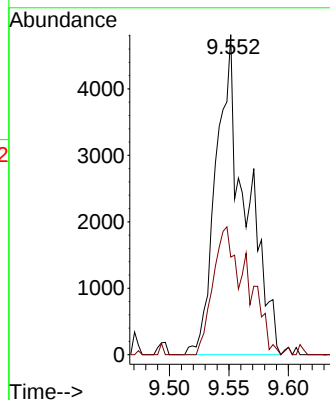
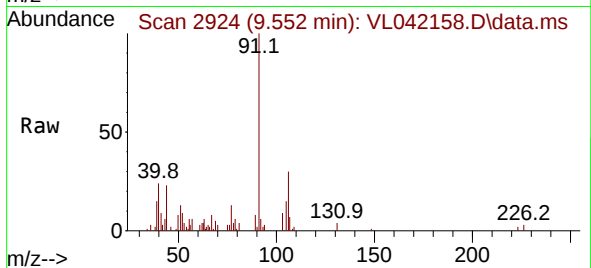
557-SG-2

Tgt Ion: 91 Resp: 8380
 Ion Ratio Lower Upper
 91 100
 106 46.4 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/18/2025
 Supervised By :Mahesh Dadoda 03/18/2025



#62

Isopropylbenzene

Concen: 0.611 ppbv

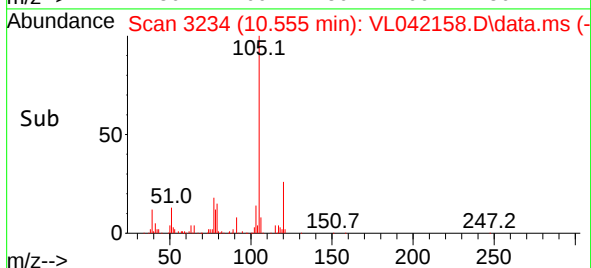
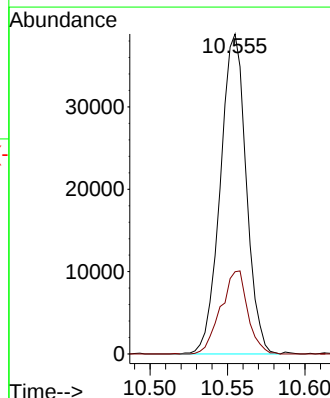
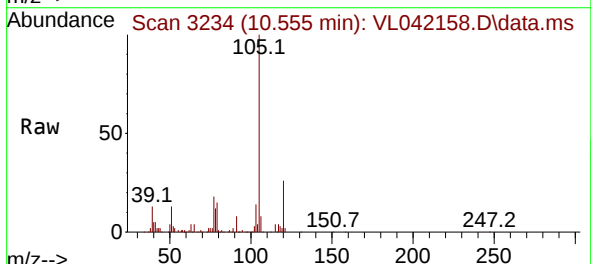
RT: 10.555 min Scan# 3234

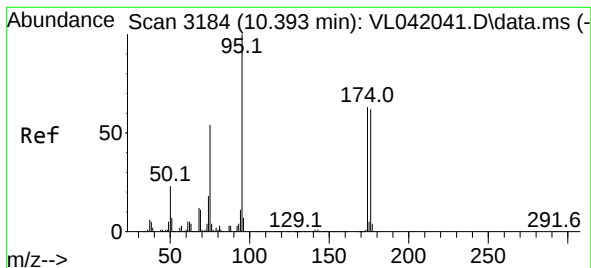
Delta R.T. -0.000 min

Lab File: VL042158.D

Acq: 17 Mar 2025 15:19

Tgt Ion:105 Resp: 45133
 Ion Ratio Lower Upper
 105 100
 120 27.0 20.7 31.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.251 ppbv

RT: 10.390 min Scan# 3184

Delta R.T. -0.003 min

Lab File: VL042158.D

Acq: 17 Mar 2025 15:19

Instrument :

MSVOA_L

ClientSampleId :

557-SG-2

Tgt Ion: 95 Resp: 26415

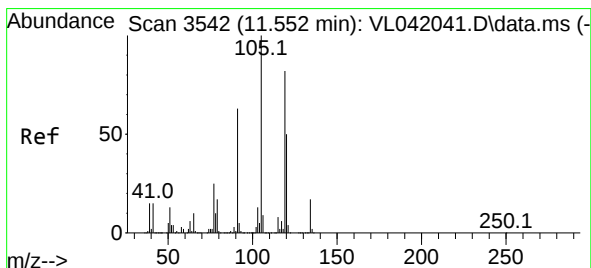
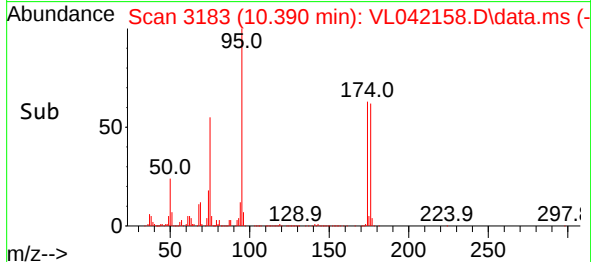
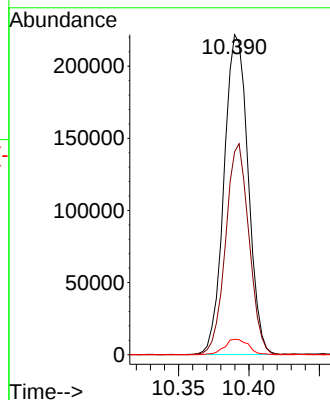
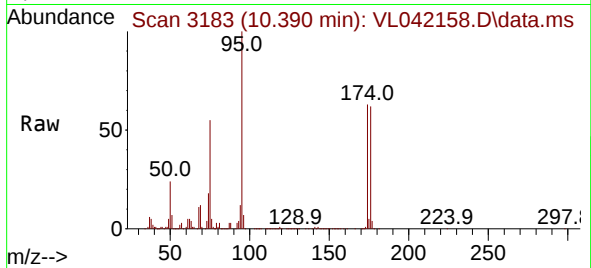
Ion	Ratio	Lower	Upper
95	100		
174	64.4	51.8	77.6
175	4.8	3.9	5.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/18/2025

Supervised By :Mahesh Dadoda 03/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.342 ppbv

RT: 11.549 min Scan# 3541

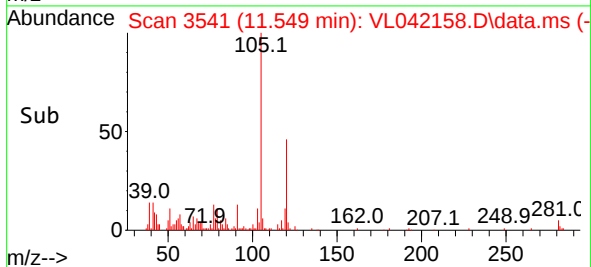
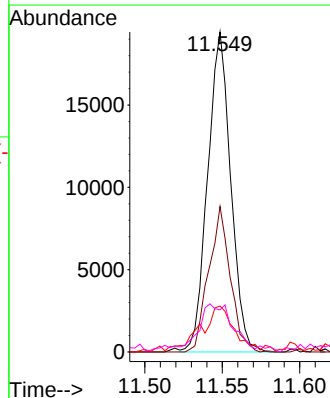
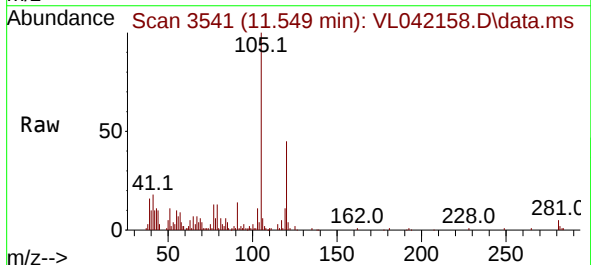
Delta R.T. -0.003 min

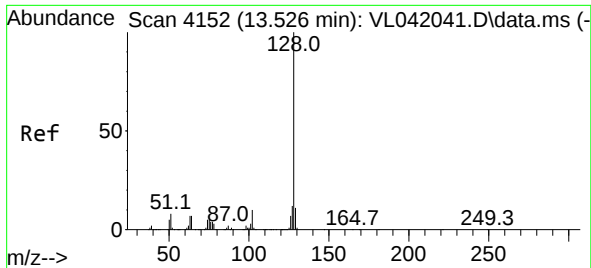
Lab File: VL042158.D

Acq: 17 Mar 2025 15:19

Tgt Ion:105 Resp: 20132

Ion	Ratio	Lower	Upper
105	100		
120	45.4	40.2	60.2
91	13.5	51.4	77.2#
77	13.2	20.1	30.1#





#79
Naphthalene
Concen: 0.770 ppbv
RT: 13.526 min Scan# 4152
Delta R.T. -0.000 min
Lab File: VL042158.D
Acq: 17 Mar 2025 15:19

Instrument :
MSVOA_L
ClientSampleId :
557-SG-2

Tgt Ion:128 Resp: 31084
Ion Ratio Lower Upper
128 100
127 15.1 9.8 14.6
129 8.2 8.6 12.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/18/2025
Supervised By :Mahesh Dadoda 03/18/2025

