

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
 Data File : VL043321.D
 Acq On : 08 Dec 2025 19:56
 Operator : SY/MD
 Sample : Q3798-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
 Supervised By :Mahesh Dadoda 12/11/2025

Quant Time: Dec 09 00:15:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	134420	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.942	114	341367	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.865	117	271316	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	196407	9.876	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.495	85	8595	0.453	ppbv	96
3) Chlorodifluoromethane	1.473	51	5434m	0.291	ppbv	
4) Chloromethane	1.528	50	3346	0.472	ppbv	90
9) Propene	1.483	41	10844	1.370	ppbv #	1
10) Heptane	4.965	43	2488m	0.106	ppbv	
11) Trichlorofluoromethane	1.874	101	5475	0.298	ppbv	95
13) Ethanol	1.716	45	22982	8.255	ppbv	97
15) Acetone	1.832	43	40438	2.165	ppbv #	90
19) Isopropyl Alcohol	1.881	45	12157	1.152	ppbv #	41
20) Methylene Chloride	2.059	84	8568	0.838	ppbv	88
26) Hexane	2.819	57	8138	0.461	ppbv #	40
34) 2-Butanone	2.554	43	5099	0.212	ppbv	99
35) Carbon Tetrachloride	3.745	117	1710m	0.066	ppbv	
36) Benzene	3.641	78	10979	0.336	ppbv	97
44) 2,2,4-Trimethylpentane	4.625	57	5719m	0.102	ppbv	
53) Toluene	6.910	91	12676	0.327	ppbv	99
59) m/p-Xylene	9.509	91	5041m	0.120	ppbv	

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

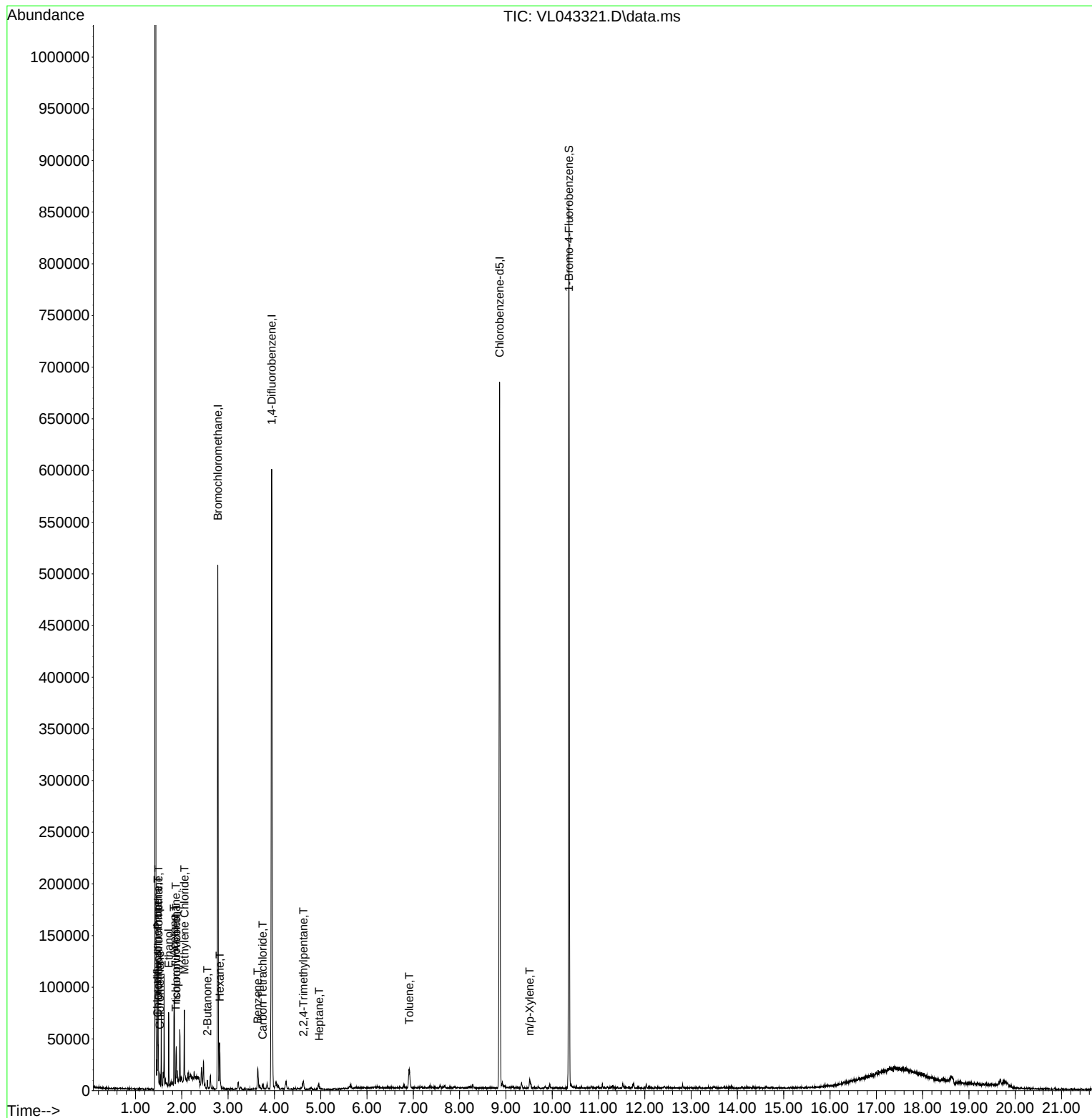
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043321.D
Acq On : 08 Dec 2025 19:56
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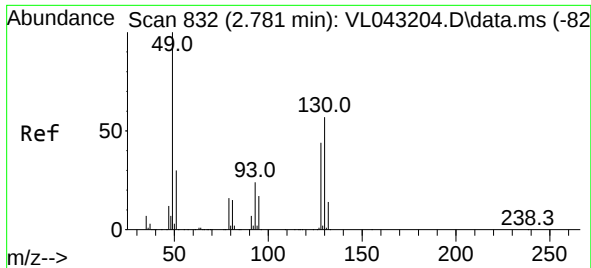
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Dec 09 00:15:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

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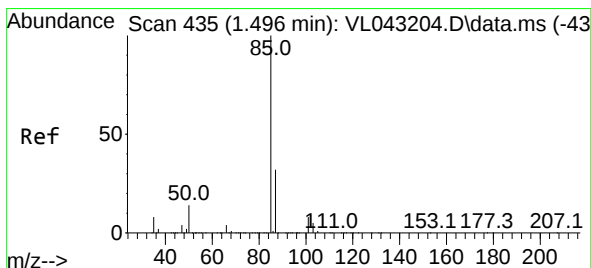
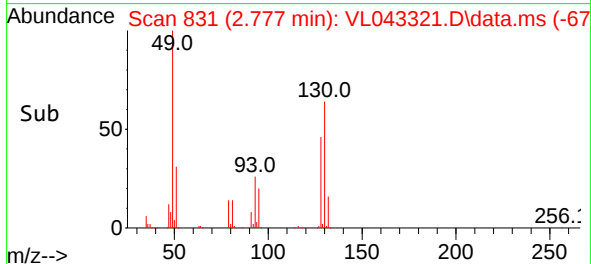
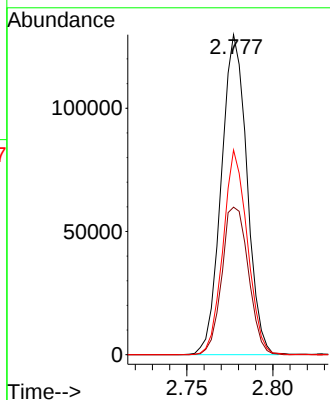
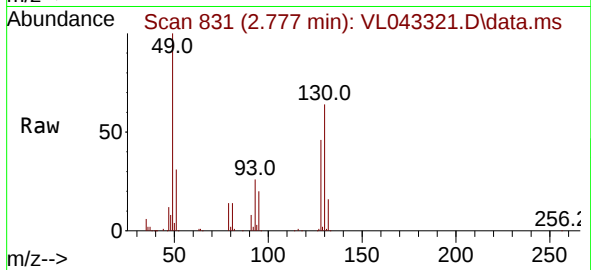
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 831
Delta R.T. -0.004 min
Lab File: VL043321.D
Acq: 08 Dec 2025 19:56

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 49 Resp: 134420
Ion Ratio Lower Upper
49 100
128 47.7 23.0 69.0
130 60.8 29.9 89.7

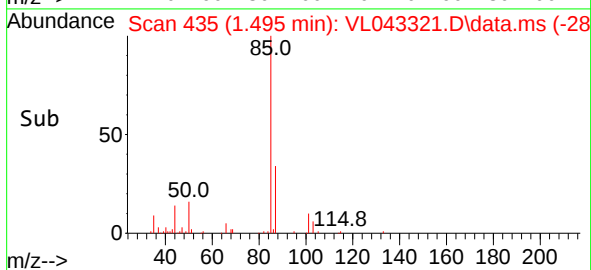
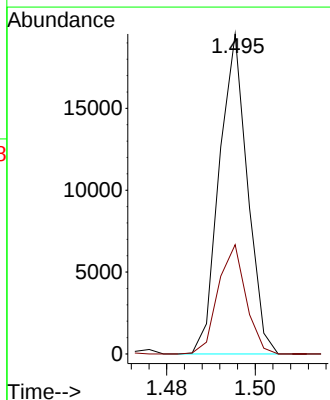
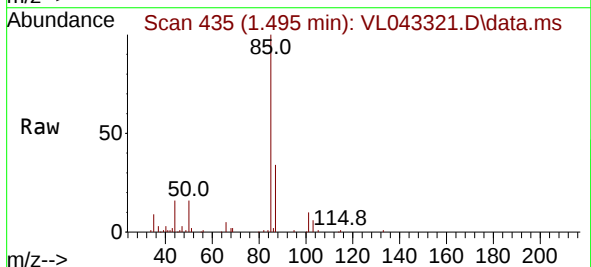
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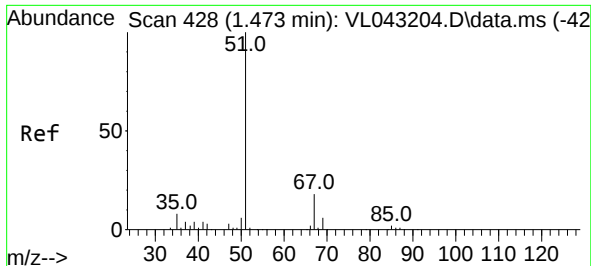
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#2
Dichlorodifluoromethane
Concen: 0.453 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043321.D
Acq: 08 Dec 2025 19:56

Tgt Ion: 85 Resp: 8595
Ion Ratio Lower Upper
85 100
87 34.2 25.4 38.2





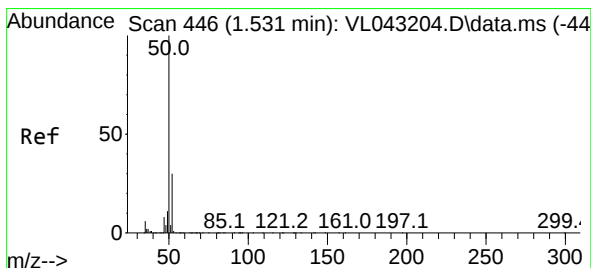
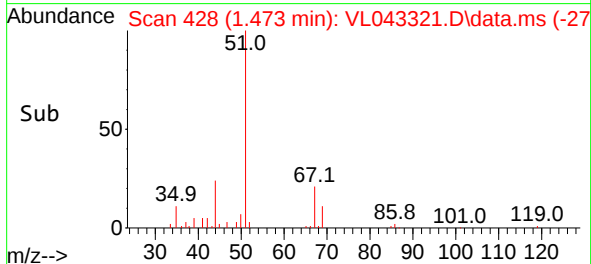
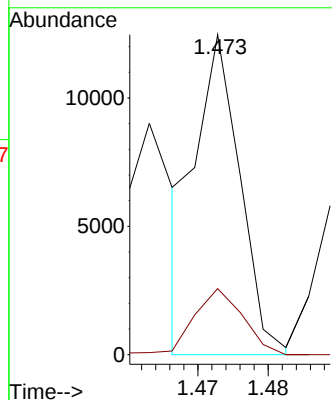
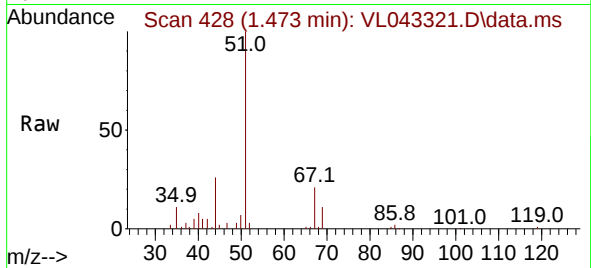
#3
Chlorodifluoromethane
Concen: 0.291 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL043321.D
Acq: 08 Dec 2025 19:56

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 5434
Ion Ratio Lower Upper
51 100
67 4.3 14.9 22.3

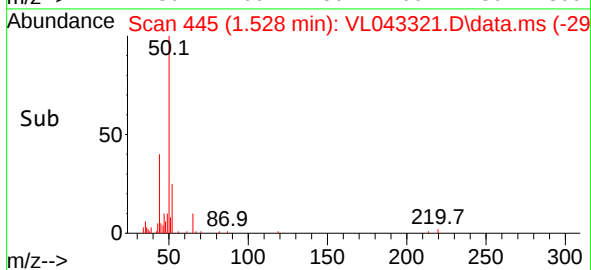
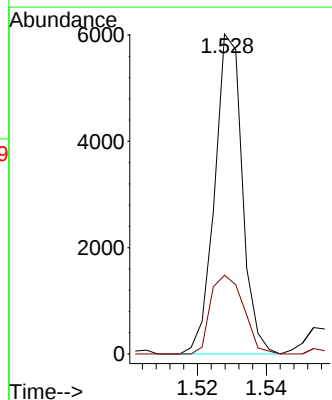
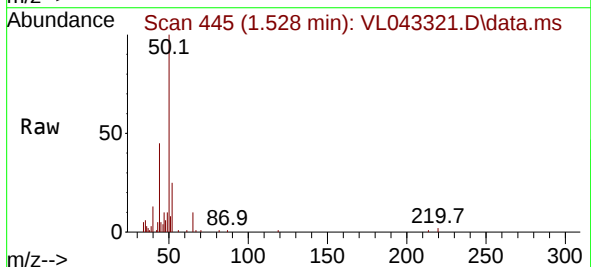
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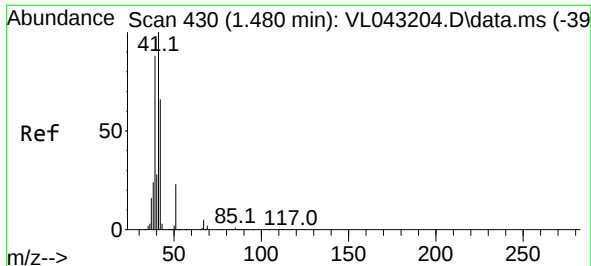
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#4
Chloromethane
Concen: 0.472 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.004 min
Lab File: VL043321.D
Acq: 08 Dec 2025 19:56

Tgt Ion: 50 Resp: 3346
Ion Ratio Lower Upper
50 100
52 24.6 24.1 36.1





#9

Propene

Concen: 1.370 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043321.D

Acq: 08 Dec 2025 19:56

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 41 Resp: 10844

Ion Ratio Lower Upper

41 100

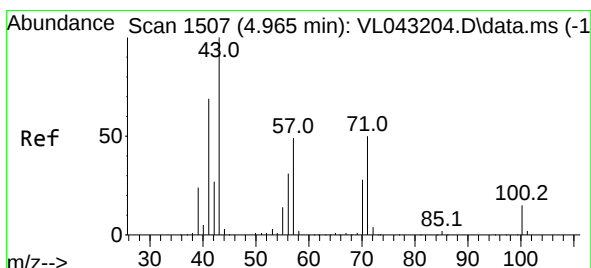
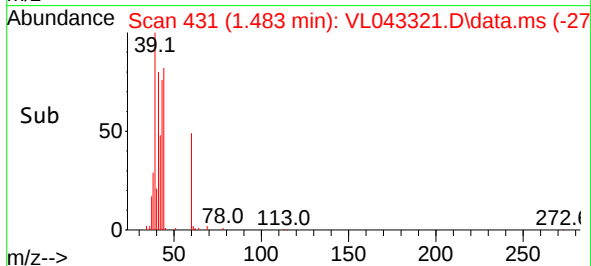
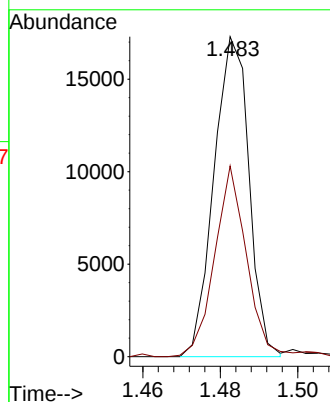
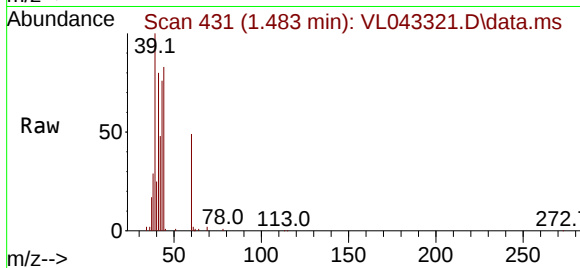
42 55.9 3.7 5.5

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#10

Heptane

Concen: 0.106 ppbv m

RT: 4.965 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VL043321.D

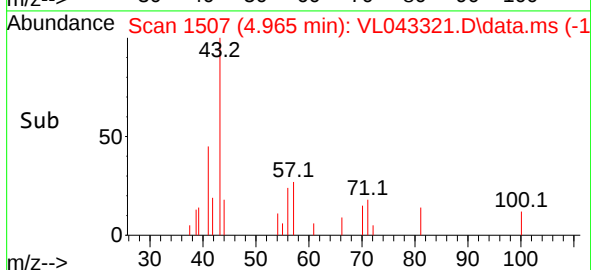
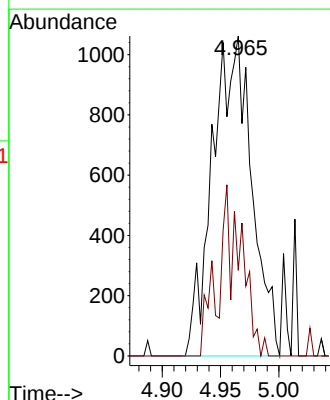
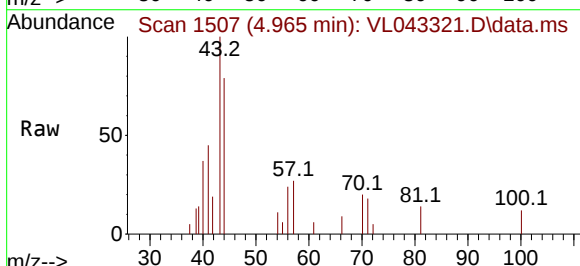
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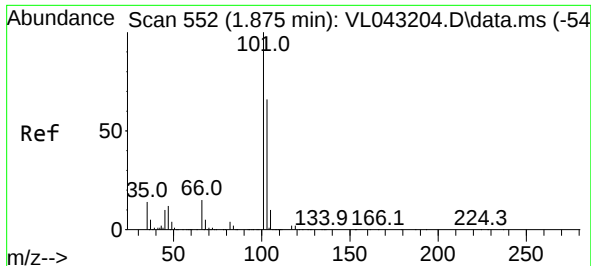
Tgt Ion: 43 Resp: 2488

Ion Ratio Lower Upper

43 100

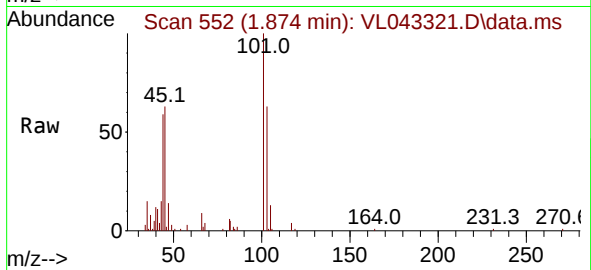
57 31.5 39.7 59.5





#11
 Trichlorofluoromethane
 Concen: 0.298 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL043321.D
 Acq: 08 Dec 2025 19:56

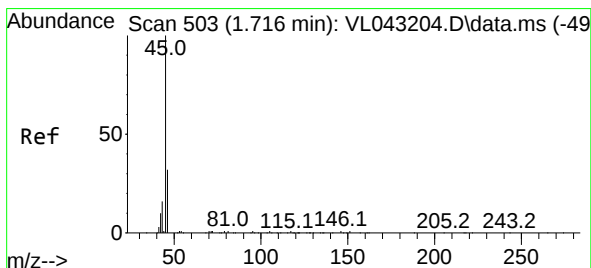
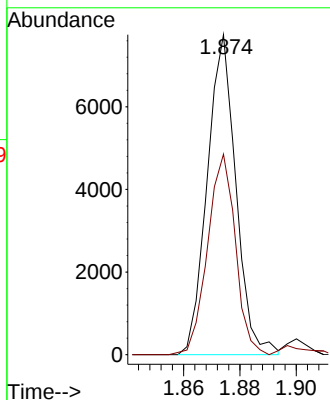
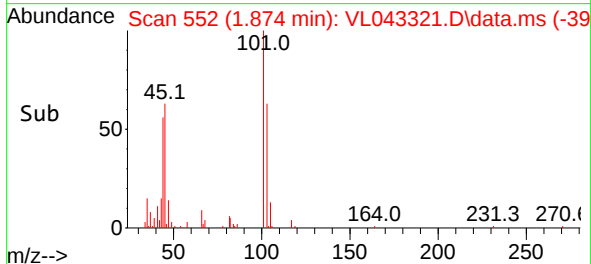
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



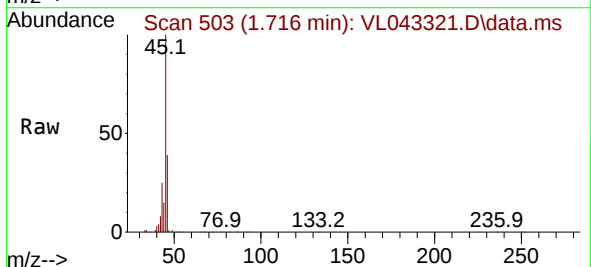
Tgt Ion:101 Resp: 5479
 Ion Ratio Lower Upper
 101 100
 103 62.0 52.6 79.0

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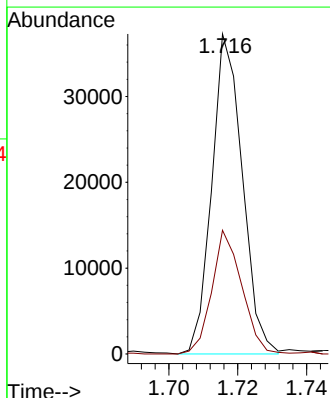
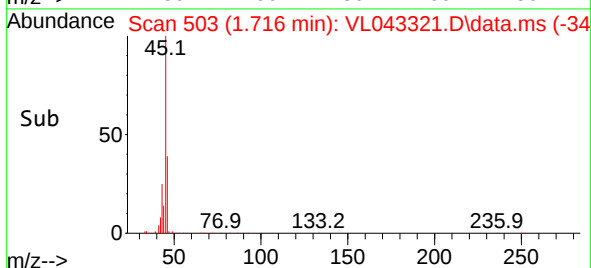
Reviewed By :Semsettin Yesilyurt 12/09/2025
 Supervised By :Mahesh Dadoda 12/11/2025

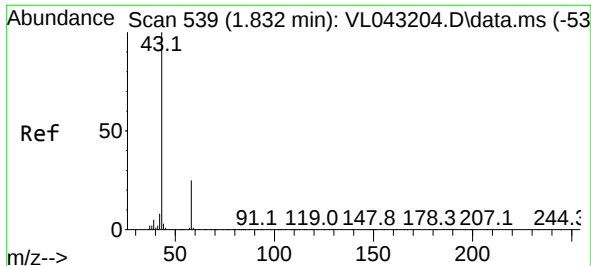


#13
 Ethanol
 Concen: 8.255 ppbv
 RT: 1.716 min Scan# 503
 Delta R.T. -0.000 min
 Lab File: VL043321.D
 Acq: 08 Dec 2025 19:56



Tgt Ion: 45 Resp: 22982
 Ion Ratio Lower Upper
 45 100
 46 39.0 15.0 59.8





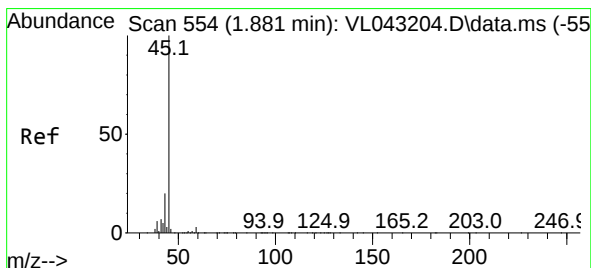
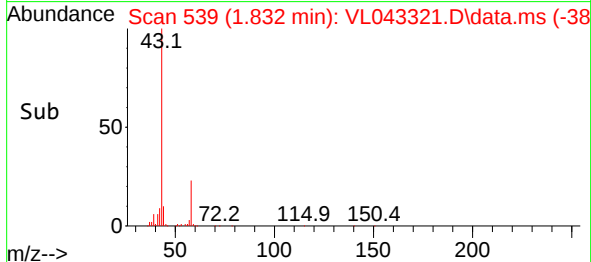
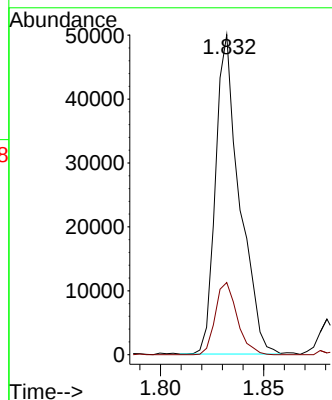
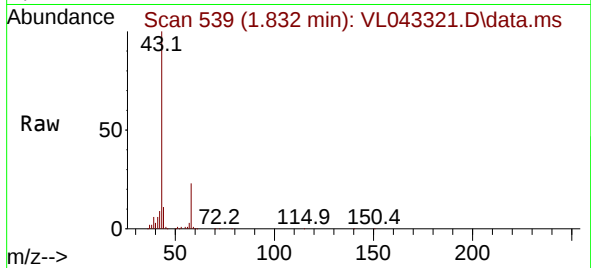
#15
Acetone
Concen: 2.165 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043321.D
Acq: 08 Dec 2025 19:56

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 43 Resp: 40438
Ion Ratio Lower Upper
43 100
58 20.6 20.7 31.1

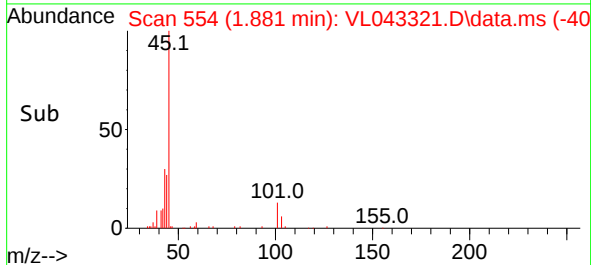
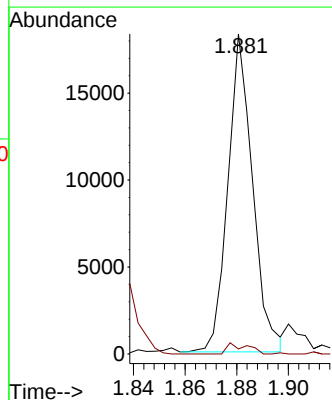
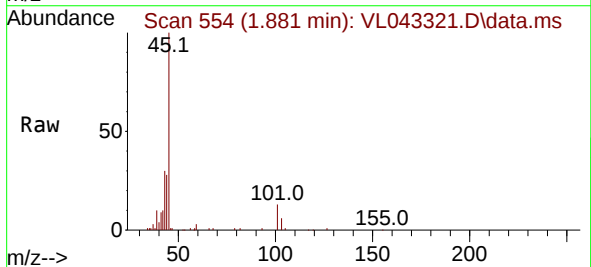
Manual Integrations
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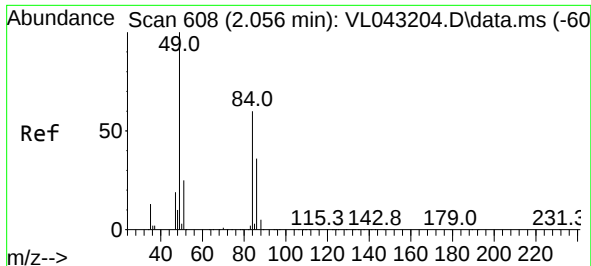
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#19
Isopropyl Alcohol
Concen: 1.152 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL043321.D
Acq: 08 Dec 2025 19:56

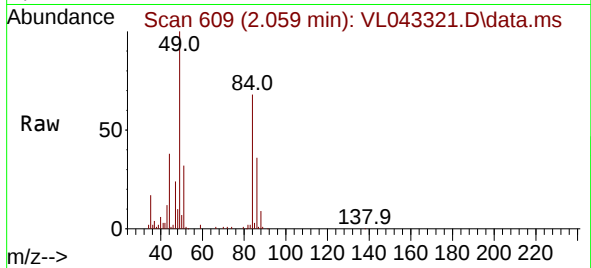
Tgt Ion: 45 Resp: 12157
Ion Ratio Lower Upper
45 100
58 2.9 31.3 46.9





#20
Methylene Chloride
Concen: 0.838 ppbv
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043321.D
Acq: 08 Dec 2025 19:56

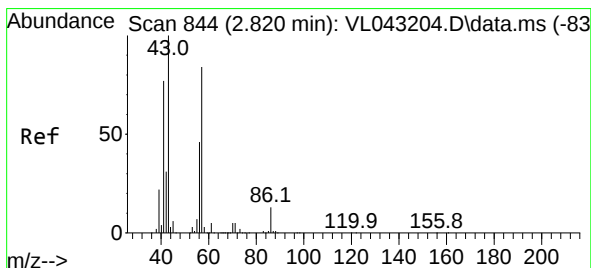
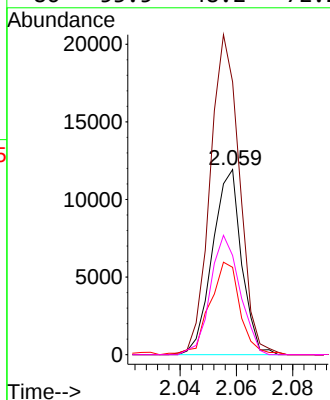
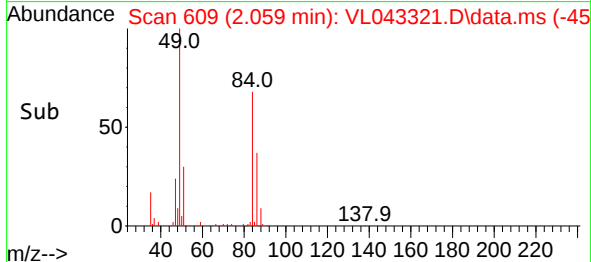
Instrument :
MSVOA_L
ClientSampleId :
OA1



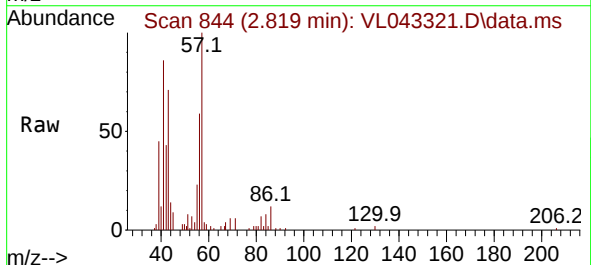
Tgt Ion: 84 Resp: 856
Ion Ratio Lower Upper
84 100
49 146.3 132.9 199.3
51 46.4 34.8 52.2
86 53.5 48.2 72.2

Manual Integrations
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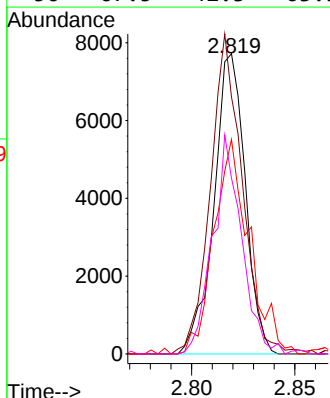
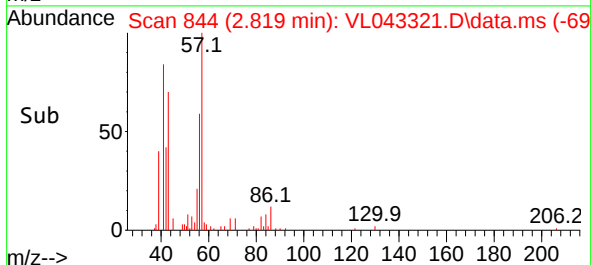
Reviewed By :Semsettin Yesilyurt 12/09/2025
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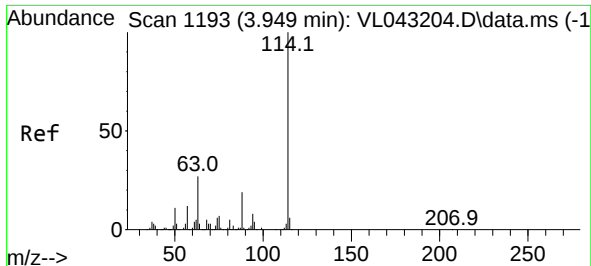


#26
Hexane
Concen: 0.461 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043321.D
Acq: 08 Dec 2025 19:56



Tgt Ion: 57 Resp: 8138
Ion Ratio Lower Upper
57 100
41 108.4 74.6 111.8
43 82.2 179.0 268.4#
56 67.5 42.3 63.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.942 min Scan# 1191

Delta R.T. -0.007 min

Lab File: VL043321.D

Acq: 08 Dec 2025 19:56

Instrument :

MSVOA_L

ClientSampleId :

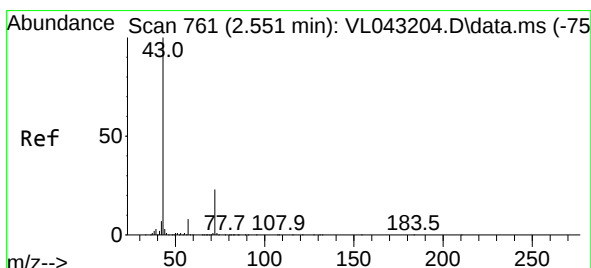
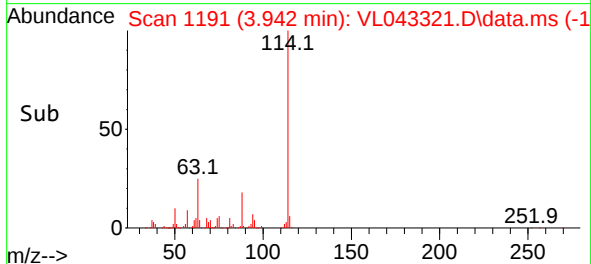
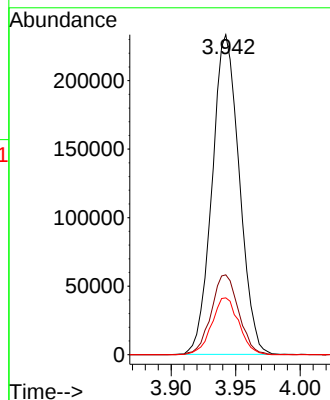
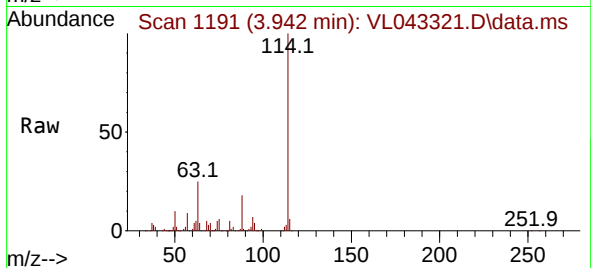
OA1

Tgt Ion:	114	Resp:	34136
Ion Ratio	Lower	Upper	
114	100		
63	25.3	21.0	31.6
88	17.8	14.9	22.3

Manual Integrations

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#34

2-Butanone

Concen: 0.212 ppbv

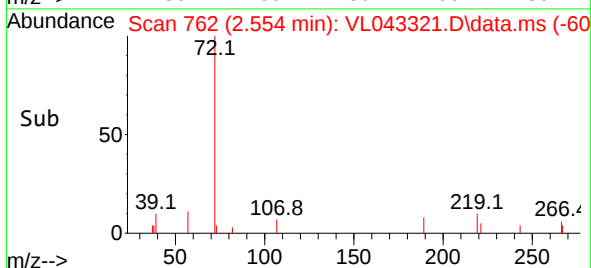
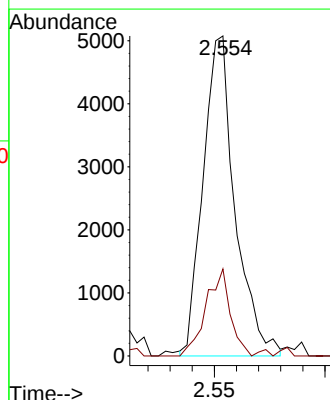
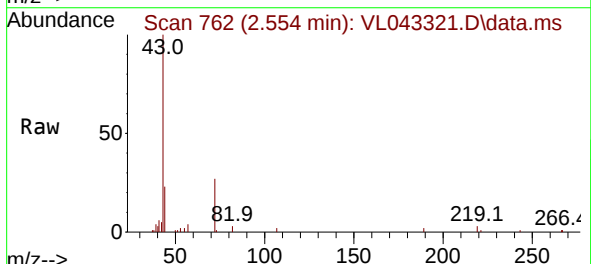
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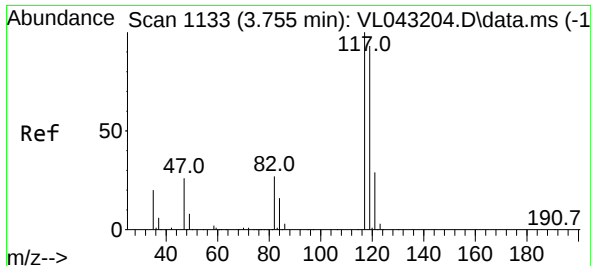
Delta R.T. 0.003 min

Lab File: VL043321.D

Acq: 08 Dec 2025 19:56

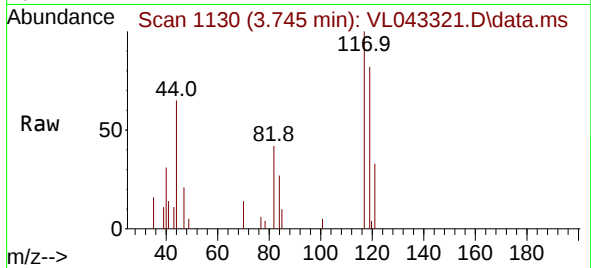
Tgt Ion:	43	Resp:	5099
Ion Ratio	Lower	Upper	
43	100		
72	22.1	18.1	27.1





#35
Carbon Tetrachloride
Concen: 0.066 ppbv
RT: 3.745 min Scan# 1133
Delta R.T. -0.010 min
Lab File: VL043321.D
Acq: 08 Dec 2025 19:56

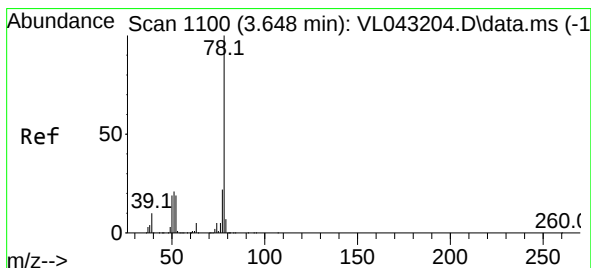
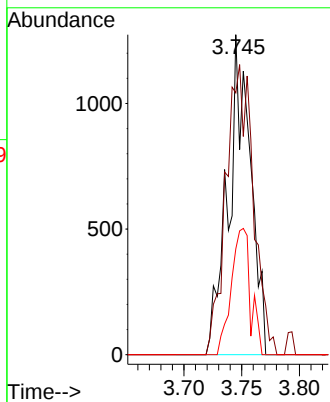
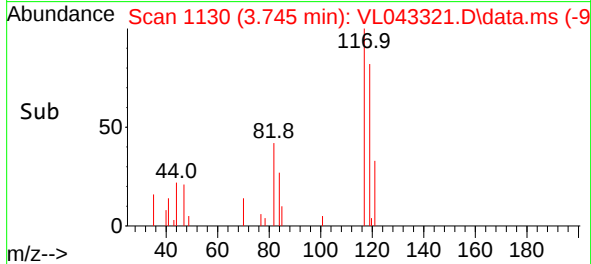
Instrument :
MSVOA_L
ClientSampleId :
OA1



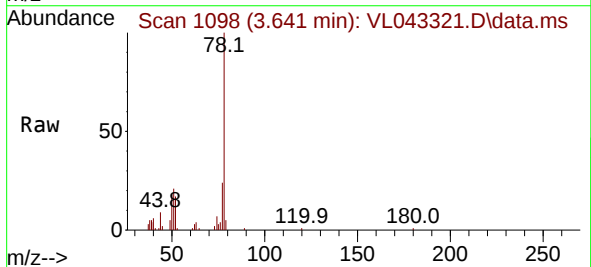
Tgt Ion: 117 Resp: 1710
Ion Ratio Lower Upper
117 100
119 81.8 74.6 112.0
121 33.0 23.2 34.8

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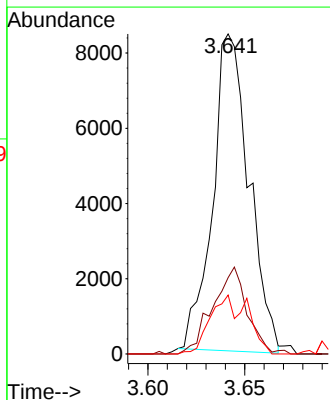
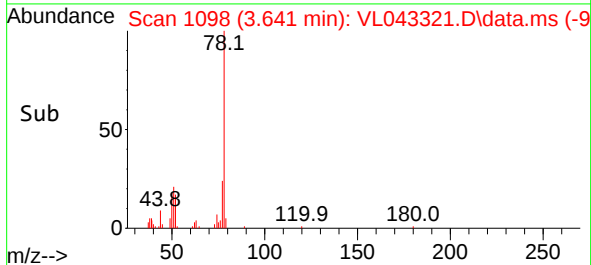
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

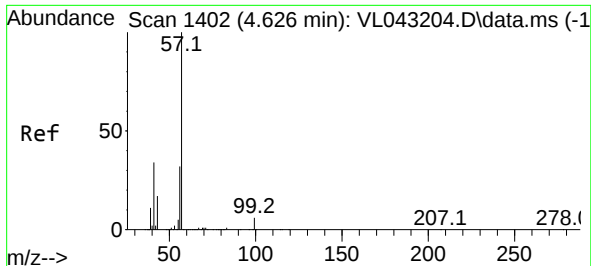


#36
Benzene
Concen: 0.336 ppbv
RT: 3.641 min Scan# 1098
Delta R.T. -0.007 min
Lab File: VL043321.D
Acq: 08 Dec 2025 19:56



Tgt Ion: 78 Resp: 10979
Ion Ratio Lower Upper
78 100
77 24.3 17.5 26.3
50 18.7 15.5 23.3





#44

2,2,4-Trimethylpentane

Concen: 0.102 ppbv m

RT: 4.625 min Scan# 1402

Delta R.T. -0.000 min

Lab File: VL043321.D

Acq: 08 Dec 2025 19:56

Instrument :

MSVOA_L

ClientSampleId :

OA1

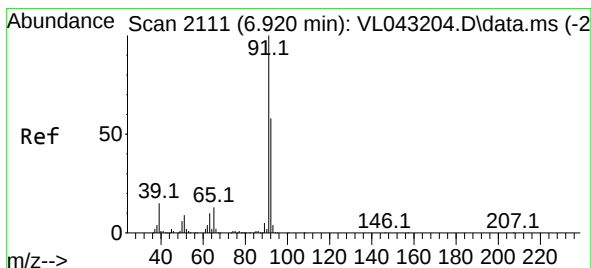
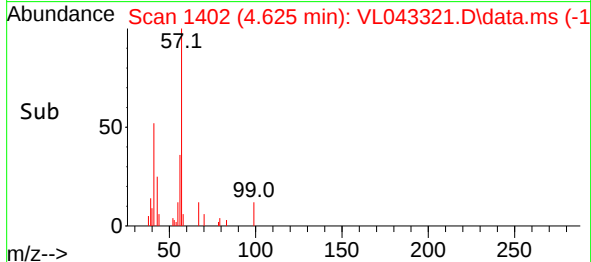
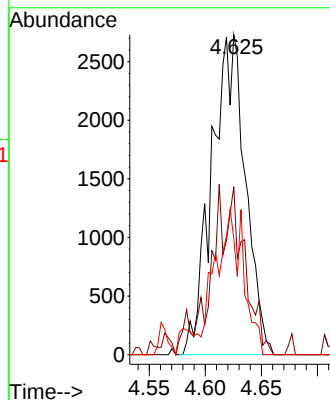
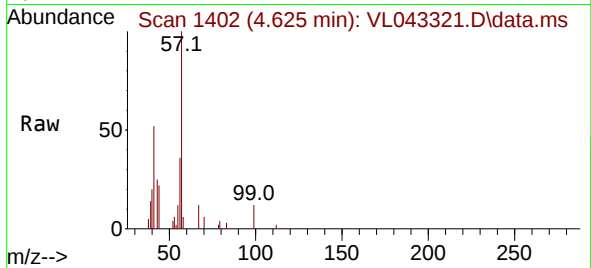
Tgt Ion: 57	Resp: 5719
Ion Ratio	Lower Upper
57 100	
41 0.0	28.0 42.0
56 0.0	25.6 38.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/09/2025

Supervised By :Mahesh Dadoda 12/11/2025



#53

Toluene

Concen: 0.327 ppbv

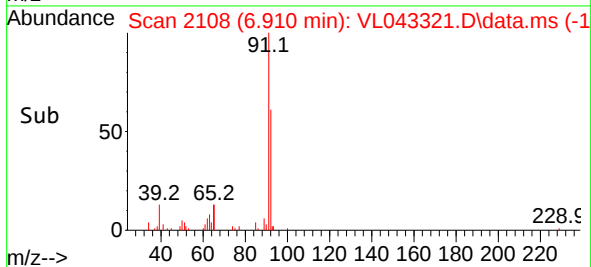
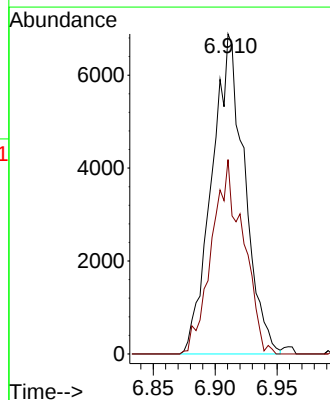
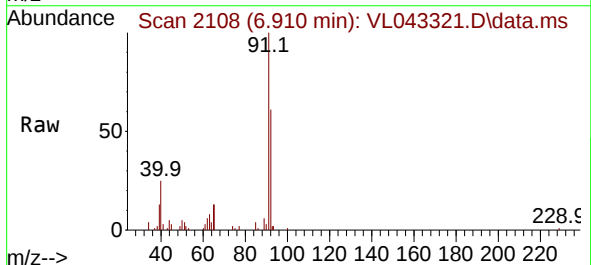
RT: 6.910 min Scan# 2108

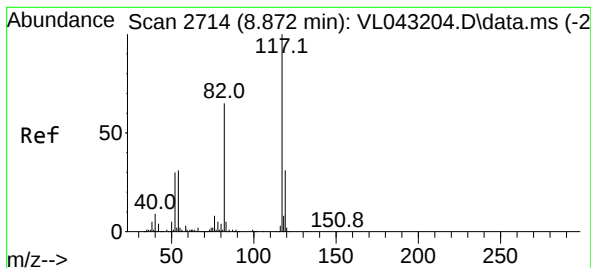
Delta R.T. -0.010 min

Lab File: VL043321.D

Acq: 08 Dec 2025 19:56

Tgt Ion: 91	Resp: 12676
Ion Ratio	Lower Upper
91 100	
92 58.6	47.4 71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.865 min Scan# 2713

Delta R.T. -0.007 min

Lab File: VL043321.D

Acq: 08 Dec 2025 19:56

Instrument :

MSVOA_L

ClientSampleId :

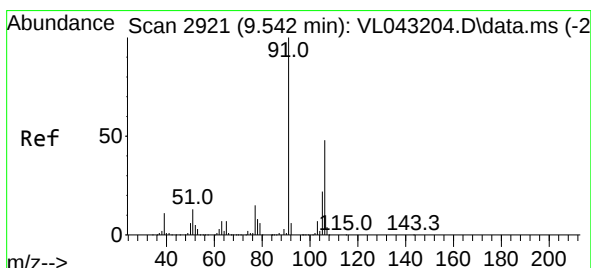
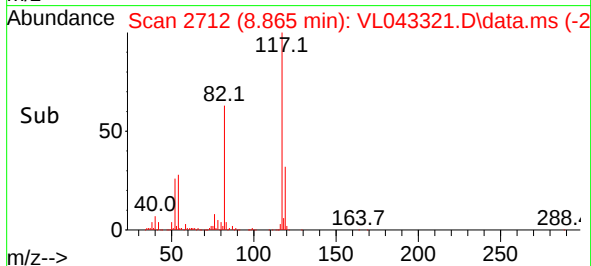
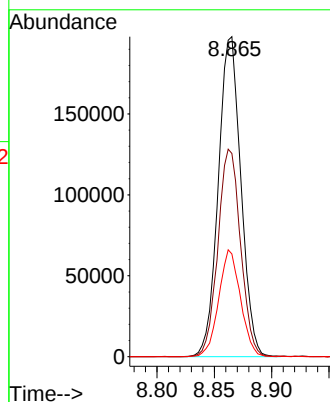
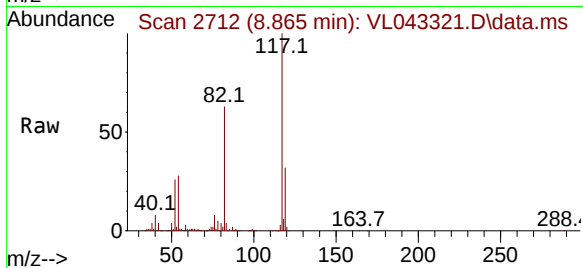
OA1

Tgt Ion: 117 Resp: 271310
 Ion Ratio Lower Upper
 117 100
 82 65.0 56.1 84.1
 119 32.2 25.0 37.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/09/2025
 Supervised By :Mahesh Dadoda 12/11/2025



#59

m/p-Xylene

Concen: 0.120 ppbv m

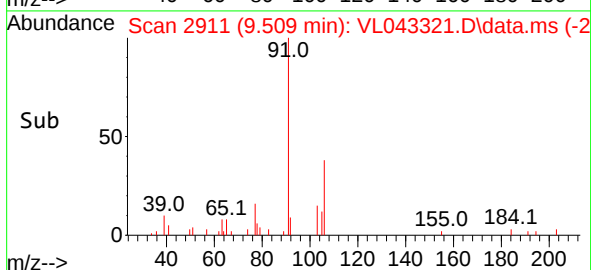
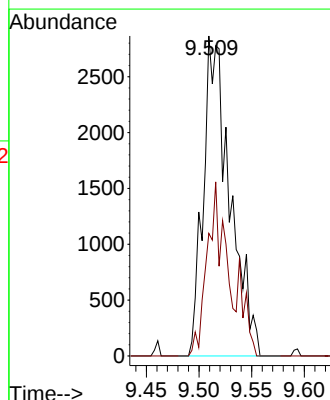
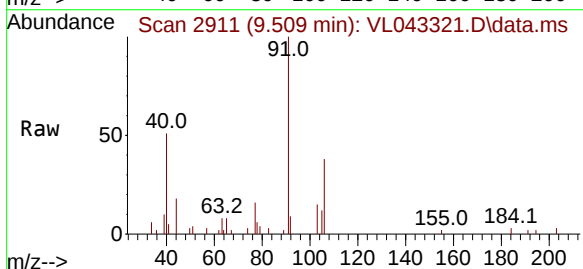
RT: 9.509 min Scan# 2911

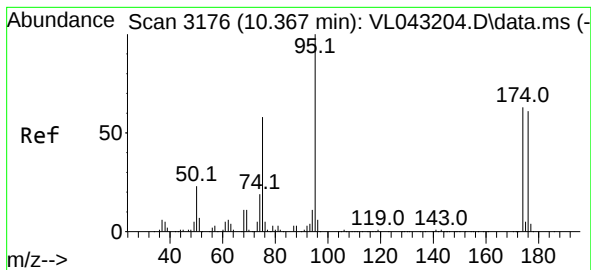
Delta R.T. -0.033 min

Lab File: VL043321.D

Acq: 08 Dec 2025 19:56

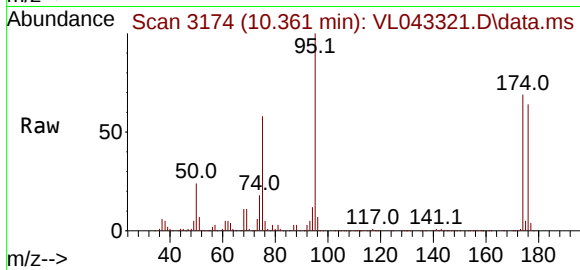
Tgt Ion: 91 Resp: 5041
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.1 54.1#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.876 ppbv
 RT: 10.361 min Scan# 31
 Delta R.T. -0.007 min
 Lab File: VL043321.D
 Acq: 08 Dec 2025 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



Tgt Ion: 95 Resp: 19640
 Ion Ratio Lower Upper
 95 100
 174 69.4 50.2 75.2
 175 5.1 4.1 6.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
 Supervised By :Mahesh Dadoda 12/11/2025

