

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041922.D
 Acq On : 20 Jan 2025 16:12
 Operator : SY/MD
 Sample : Q1090-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

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

Quant Time: Jan 21 03:05:04 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	2.787	49	141996	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.955	114	398544	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	362259	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	293749	10.295	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 103.000%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	3508	0.181	ppbv	100
3) Chlorodifluoromethane	1.476	51	2740m	0.135	ppbv	
4) Chloromethane	1.531	50	1665	0.229	ppbv	99
9) Propene	1.482	41	9289	1.113	ppbv	98
10) Heptane	4.972	43	8757m	0.393	ppbv	
13) Ethanol	1.722	45	4152m	6.791	ppbv	
15) Acetone	1.835	43	91335	5.355	ppbv #	87
16) 1,3-Butadiene	1.602	39	4404	0.575	ppbv #	32
17) tert-Butyl alcohol	2.042	59	3346	0.159	ppbv #	89
20) Methylene Chloride	2.062	84	1200	0.178	ppbv #	75
26) Hexane	2.826	57	51661	2.840	ppbv #	34
29) Chloroform	2.852	83	3166	0.110	ppbv	98
34) 2-Butanone	2.560	43	62688	2.473	ppbv	99
35) Carbon Tetrachloride	3.764	117	1274m	0.051	ppbv	
36) Benzene	3.661	78	5690	0.156	ppbv #	91
51) 2-Hexanone	7.428	43	7702m	0.290	ppbv	
52) Tetrachloroethene	8.224	164	2111m	0.167	ppbv	
53) Toluene	6.926	91	17721	0.445	ppbv	96
59) m/p-Xylene	9.551	91	6282	0.138	ppbv	90
60) o-Xylene	9.959	91	6971	0.155	ppbv	91

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

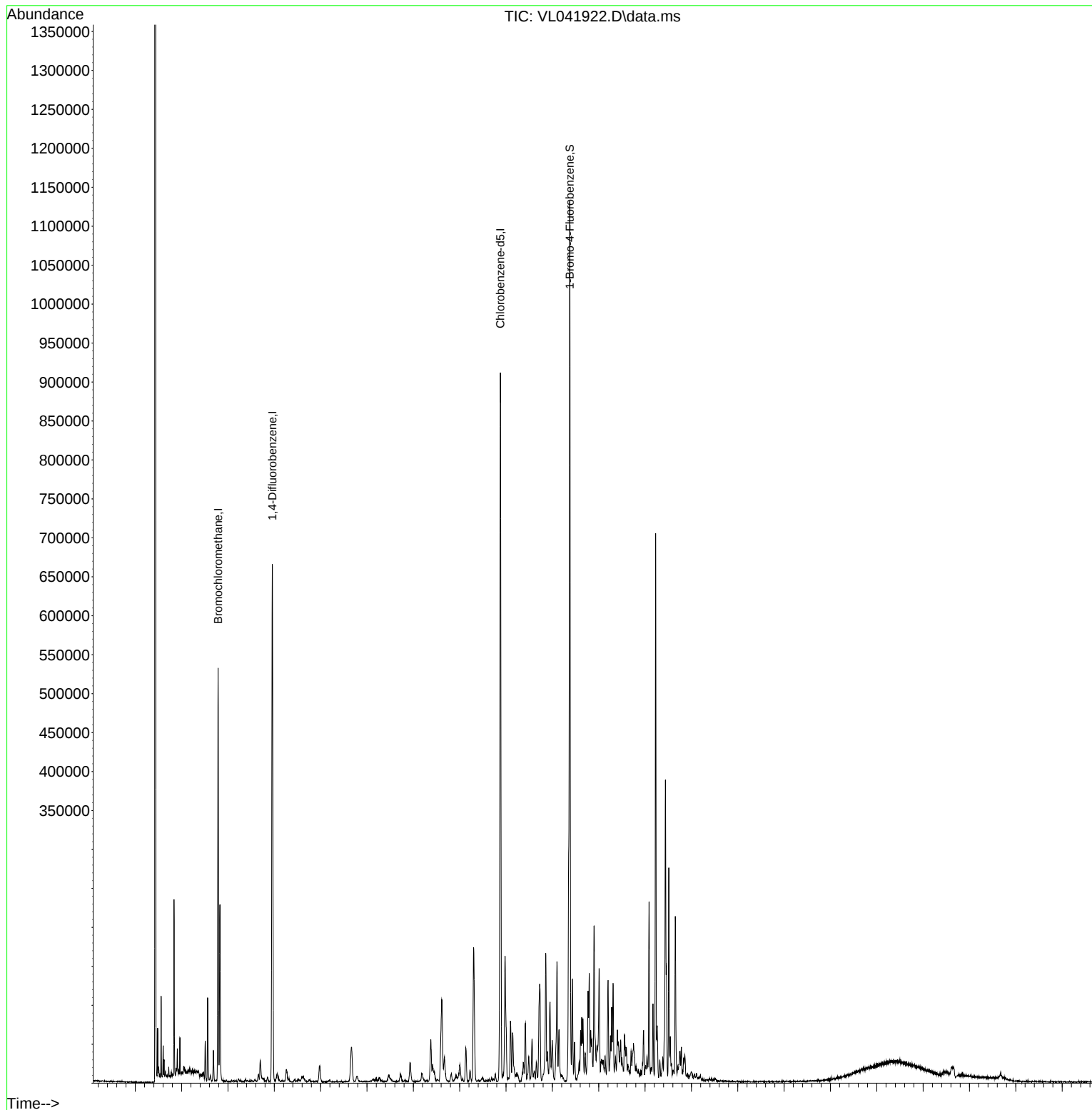
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041922.D
Acq On : 20 Jan 2025 16:12
Operator : SY/MD
Sample : Q1090-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

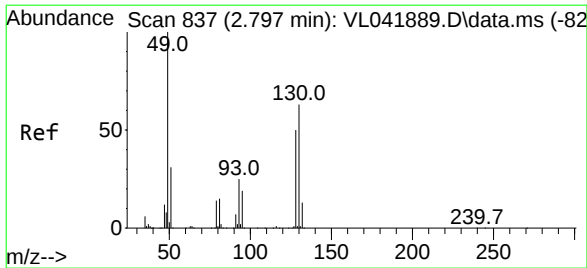
Instrument :
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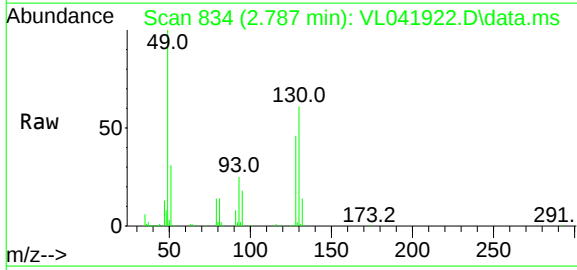
Quant Time: Jan 21 03:05:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 837
Delta R.T. -0.010 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

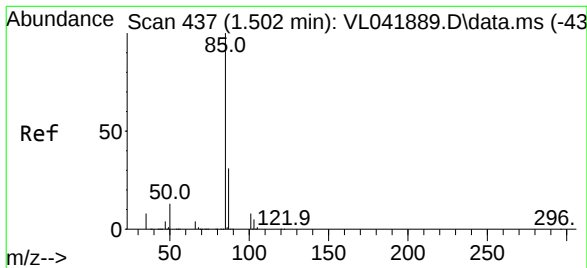
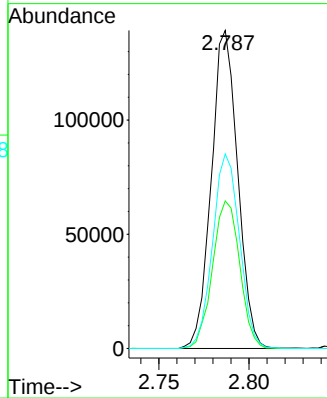
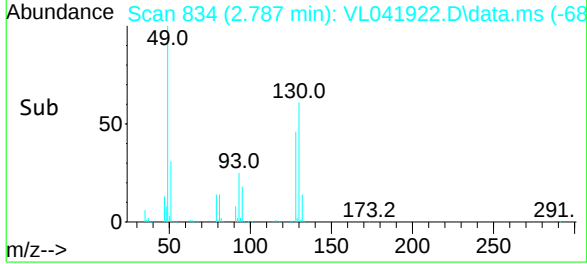
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 141996
Ion Ratio Lower Upper
49 100
128 47.8 24.3 73.0
130 62.3 31.1 93.2

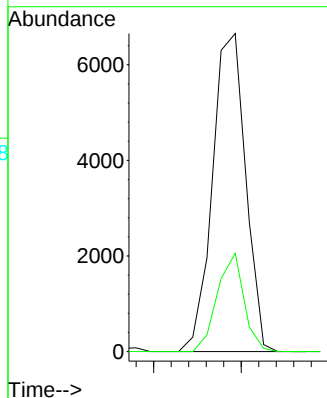
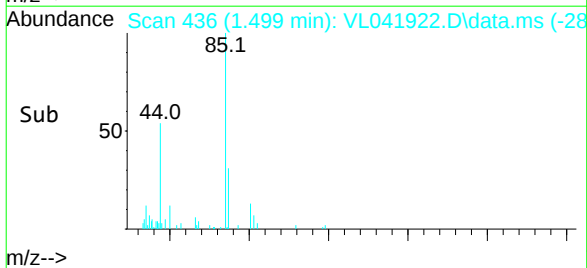
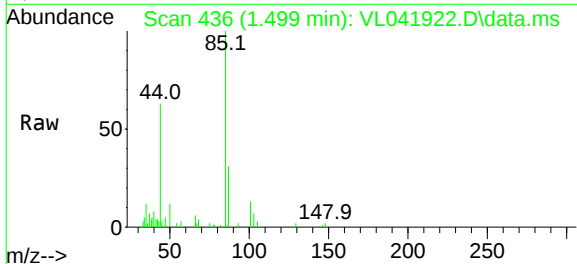
Manual Integrations
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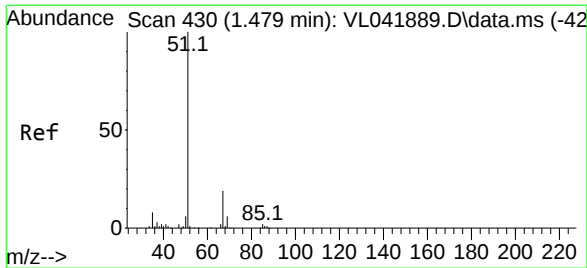
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#2
Dichlorodifluoromethane
Concen: 0.181 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

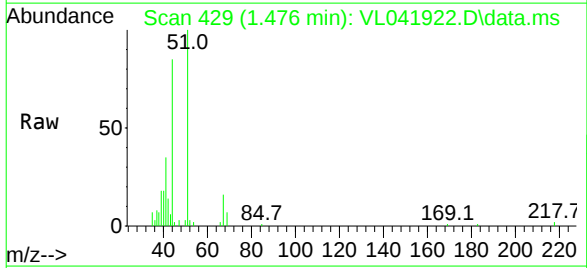
Tgt Ion: 85 Resp: 3508
Ion Ratio Lower Upper
85 100
87 30.9 24.9 37.3





#3
Chlorodifluoromethane
Concen: 0.135 ppbv m
RT: 1.476 min Scan# 42
Delta R.T. -0.003 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

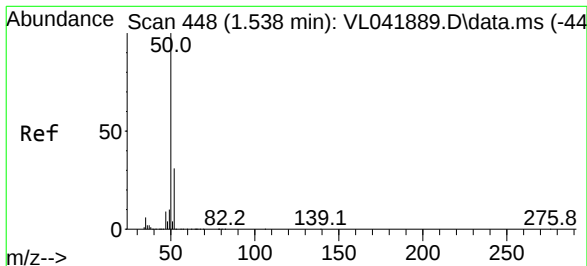
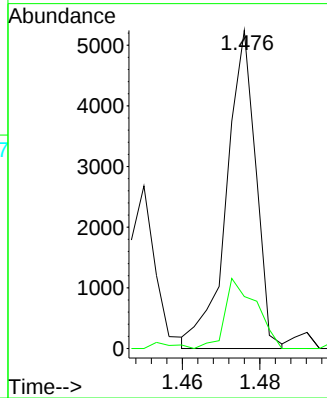
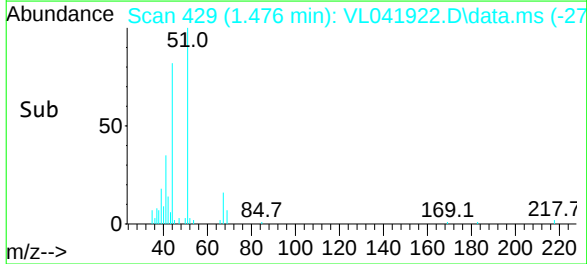
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 51 Resp: 2740
Ion Ratio Lower Upper
51 100
67 1.7 15.0 22.4#

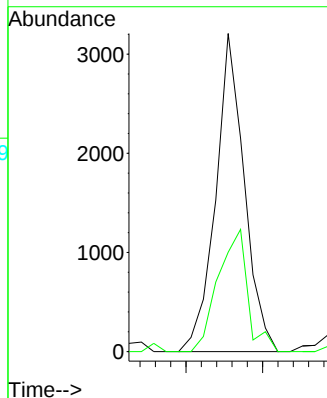
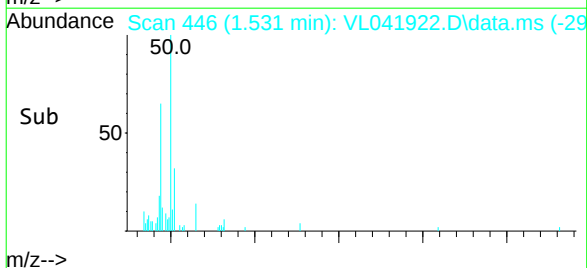
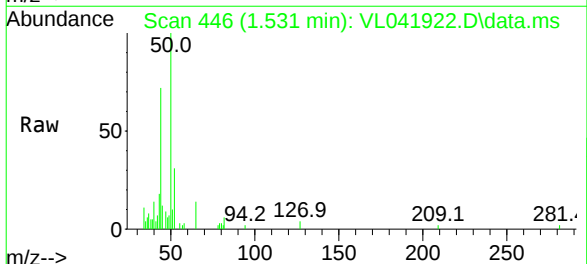
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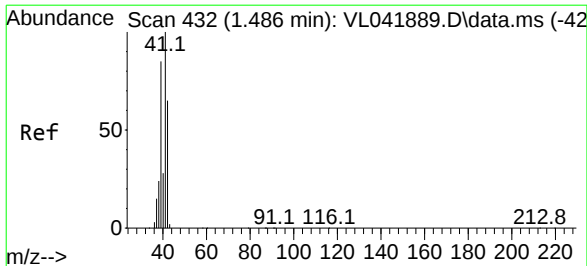
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#4
Chloromethane
Concen: 0.229 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.007 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

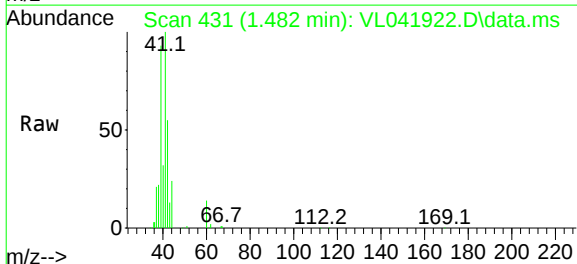
Tgt Ion: 50 Resp: 1665
Ion Ratio Lower Upper
50 100
52 31.2 24.6 36.8





#9
 Propene
 Concen: 1.113 ppbv
 RT: 1.482 min Scan# 43
 Delta R.T. -0.003 min
 Lab File: VL041922.D
 Acq: 20 Jan 2025 16:12

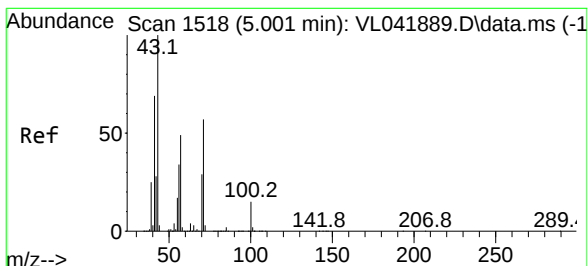
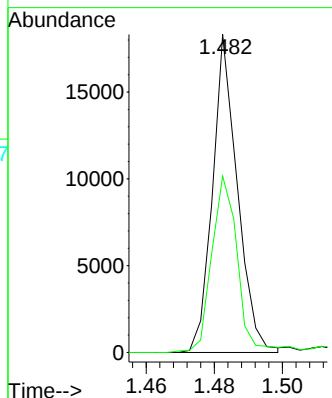
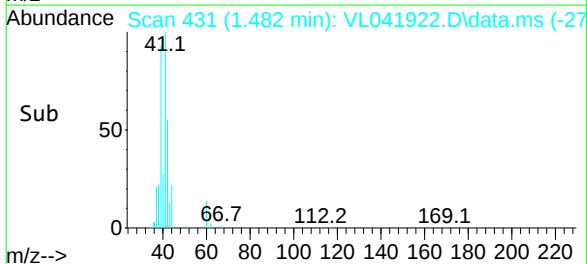
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



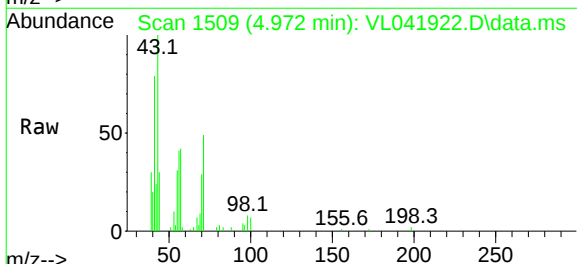
Tgt Ion: 41 Resp: 9289
 Ion Ratio Lower Upper
 41 100
 42 63.2 52.0 78.0

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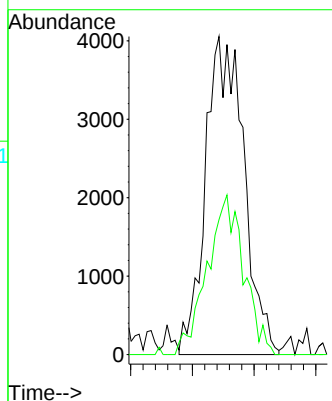
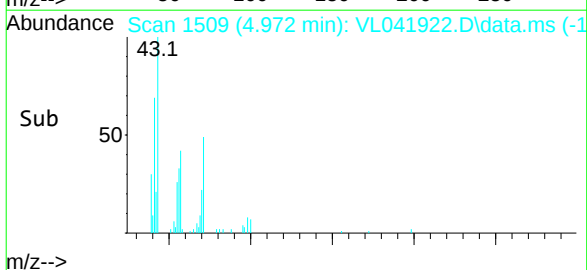
Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025

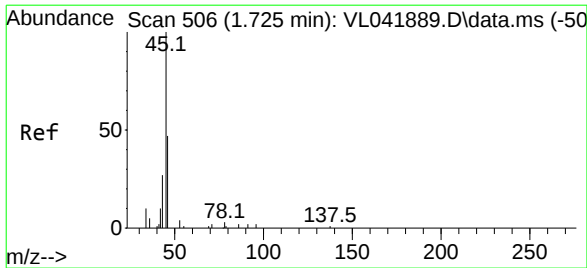


#10
 Heptane
 Concen: 0.393 ppbv m
 RT: 4.972 min Scan# 1509
 Delta R.T. -0.029 min
 Lab File: VL041922.D
 Acq: 20 Jan 2025 16:12



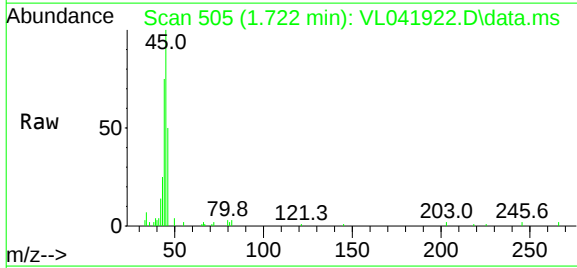
Tgt Ion: 43 Resp: 8757
 Ion Ratio Lower Upper
 43 100
 57 48.1 41.0 61.4





#13
Ethanol
Concen: 6.791 ppbv m
RT: 1.722 min Scan# 50
Delta R.T. -0.003 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

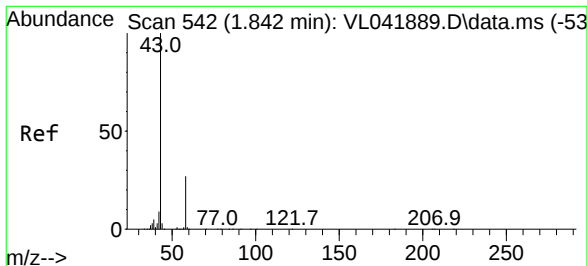
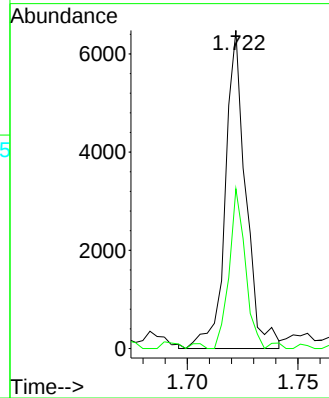
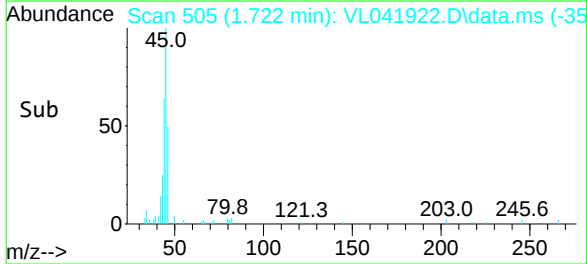
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 45 Resp: 4152
Ion Ratio Lower Upper
45 100
46 2810.1 18.1 72.5

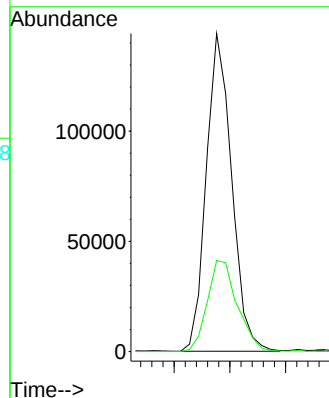
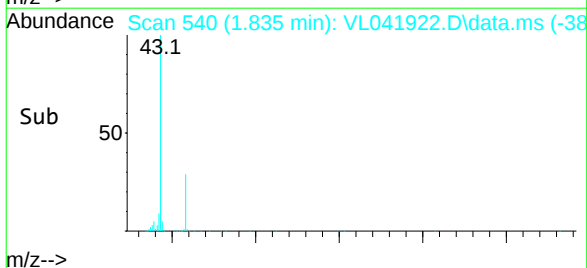
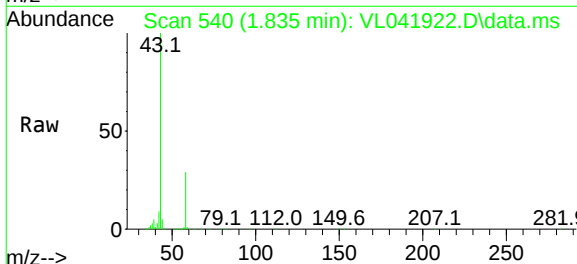
Manual Integrations
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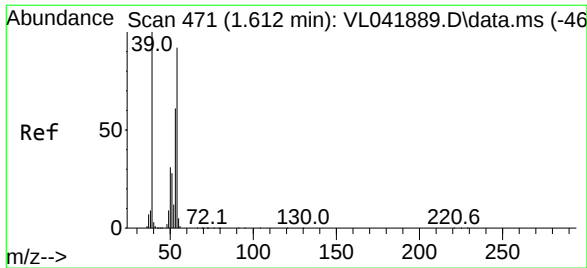
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#15
Acetone
Concen: 5.355 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.007 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Tgt Ion: 43 Resp: 91335
Ion Ratio Lower Upper
43 100
58 34.3 21.9 32.9#





#16

1,3-Butadiene

Concen: 0.575 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.010 min

Lab File: VL041922.D

Acq: 20 Jan 2025 16:12

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 39 Resp: 4404

Ion Ratio Lower Upper

39 100

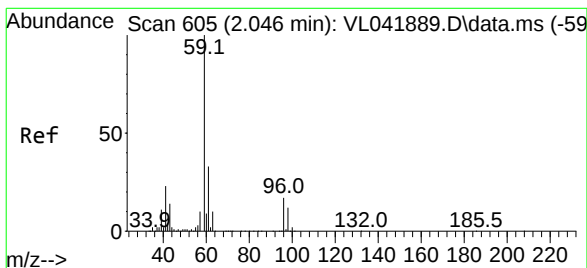
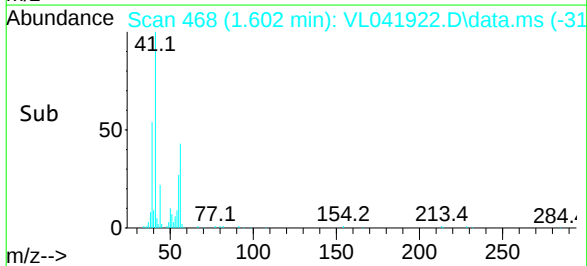
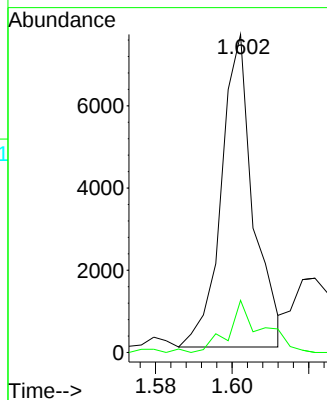
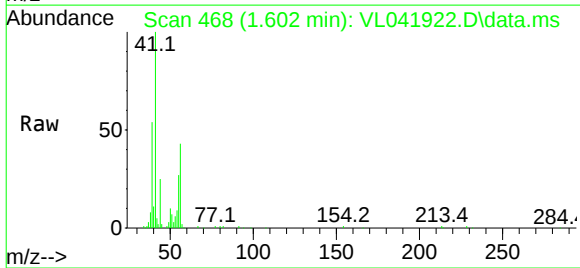
54 18.5 61.6 92.4#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/21/2025

Supervised By :Mahesh Dadoda 01/21/2025



#17

tert-Butyl alcohol

Concen: 0.159 ppbv

RT: 2.042 min Scan# 604

Delta R.T. -0.003 min

Lab File: VL041922.D

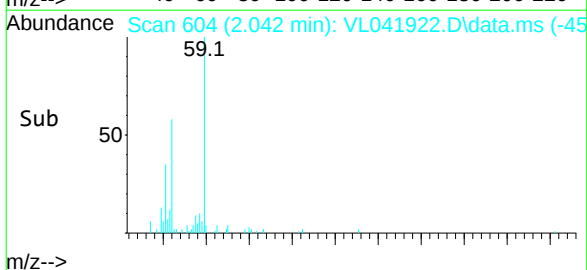
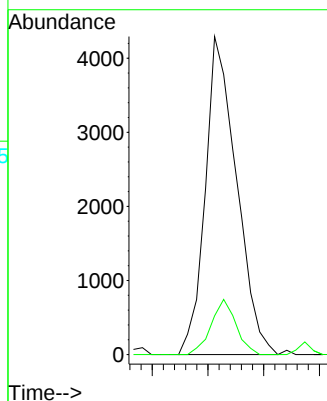
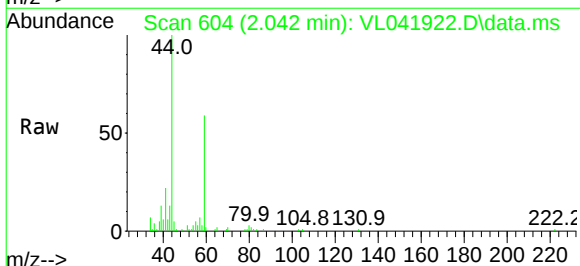
Acq: 20 Jan 2025 16:12

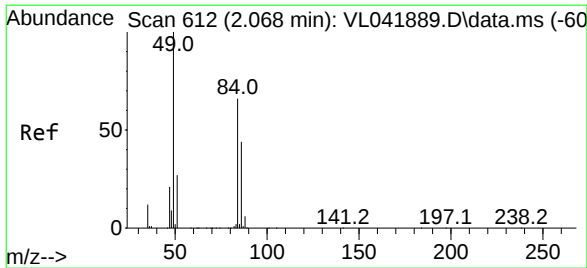
Tgt Ion: 59 Resp: 3346

Ion Ratio Lower Upper

59 100

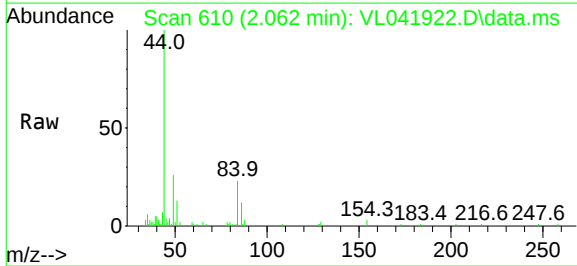
57 13.8 7.8 11.8#





#20
Methylene Chloride
Concen: 0.178 ppbv
RT: 2.062 min Scan# 61
Delta R.T. -0.007 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

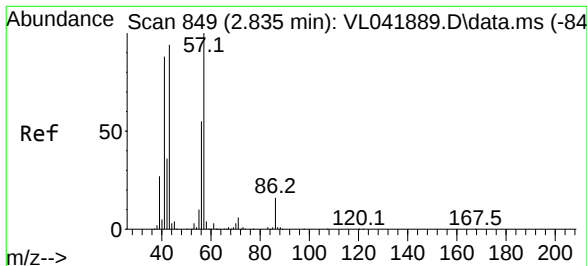
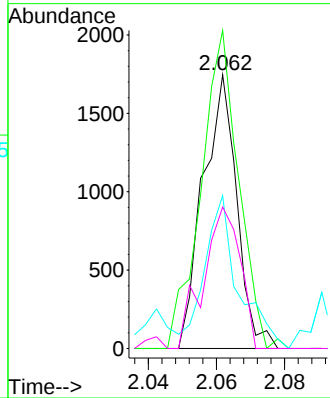
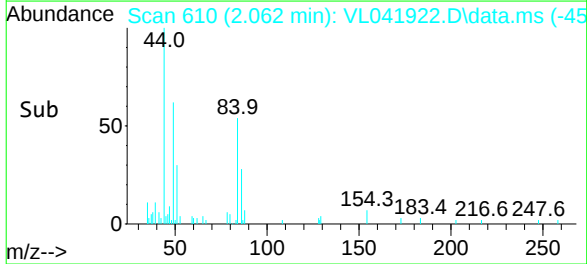
Instrument :
MSVOA_L
ClientSampleId :
SV2



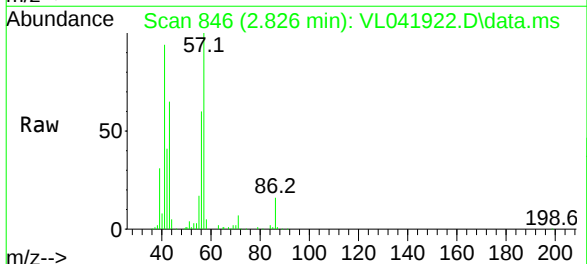
Tgt Ion:	84	Resp:	1200
Ion	Ratio	Lower	Upper
84	100		
49	112.7	123.1	184.7#
51	52.5	35.8	53.8
86	51.7	53.7	80.5#

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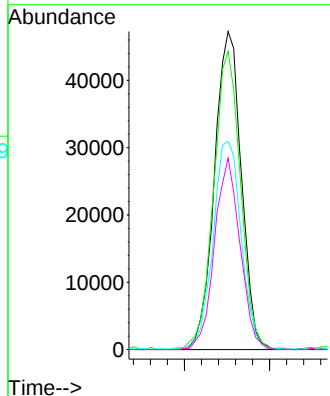
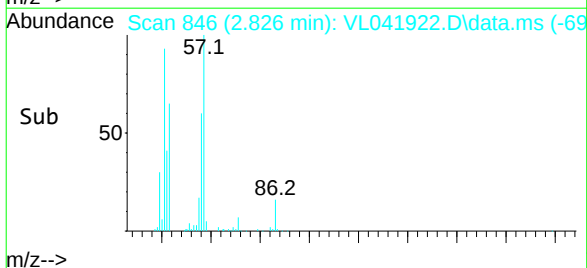
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025

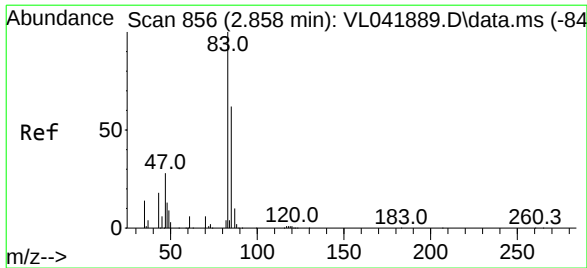


#26
Hexane
Concen: 2.840 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12



Tgt Ion:	57	Resp:	51661
Ion	Ratio	Lower	Upper
57	100		
41	94.0	73.8	110.8
43	69.1	197.3	295.9#
56	57.4	42.7	64.1





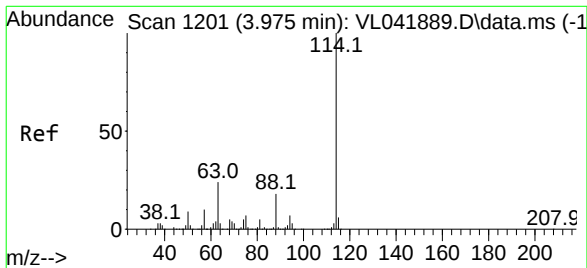
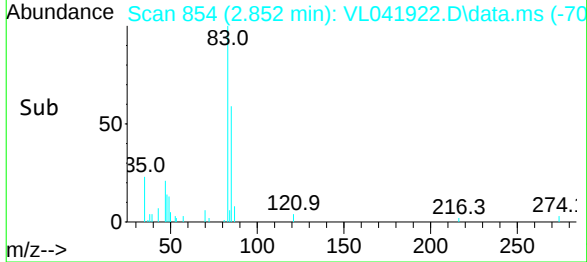
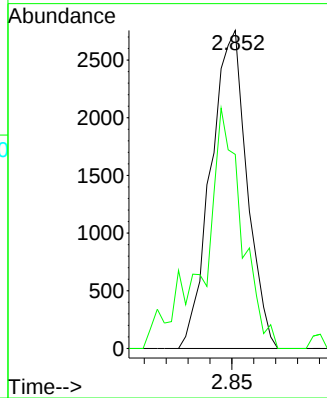
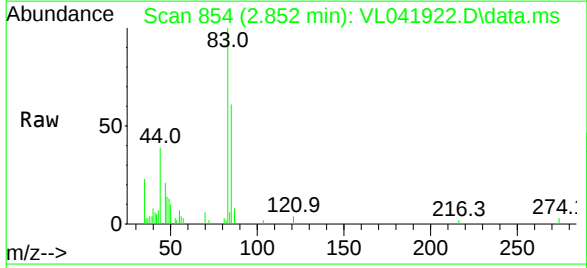
#29
Chloroform
Concen: 0.110 ppbv
RT: 2.852 min Scan# 85
Delta R.T. -0.007 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 83 Resp: 3166
Ion Ratio Lower Upper
83 100
85 61.0 50.1 75.1

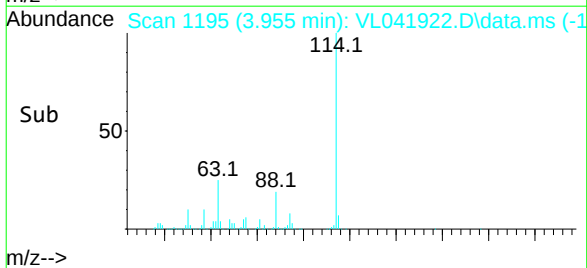
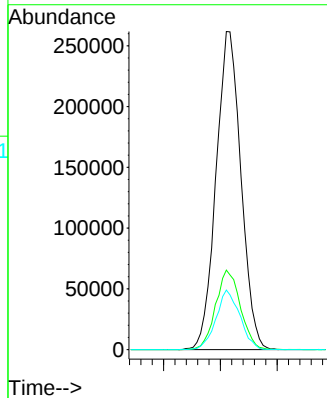
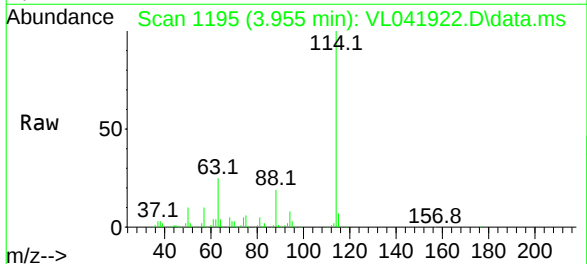
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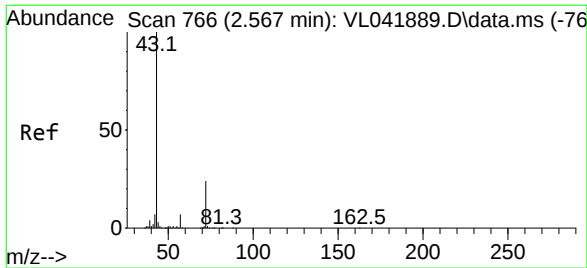
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.020 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Tgt Ion:114 Resp: 398544
Ion Ratio Lower Upper
114 100
63 24.8 19.8 29.6
88 17.9 14.4 21.6





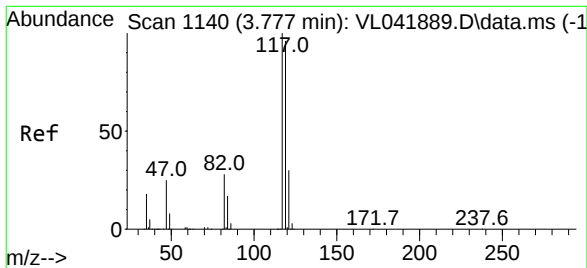
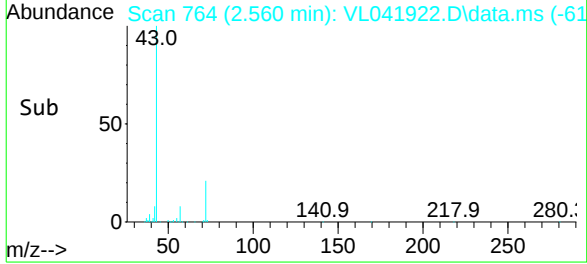
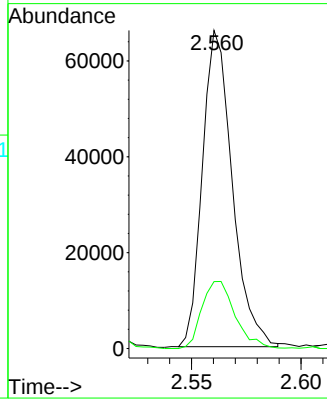
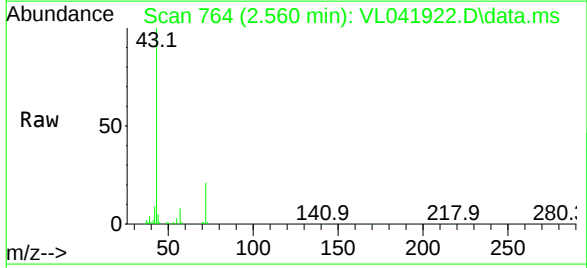
#34
2-Butanone
Concen: 2.473 ppbv
RT: 2.560 min Scan# 766
Delta R.T. -0.007 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 62688
Ion Ratio Lower Upper
43 100
72 23.7 18.6 28.0

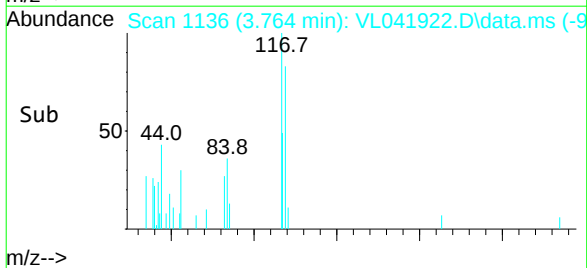
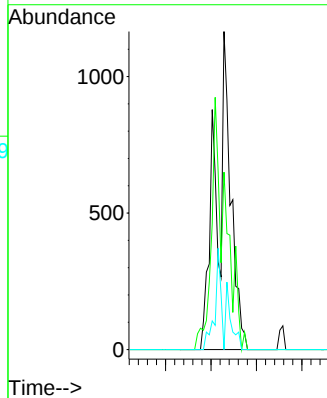
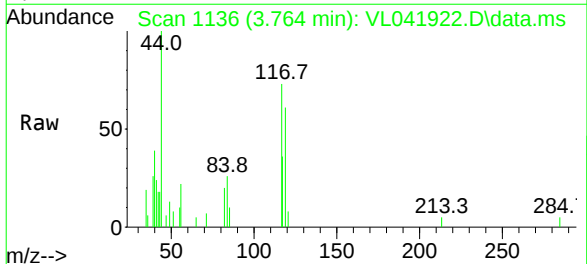
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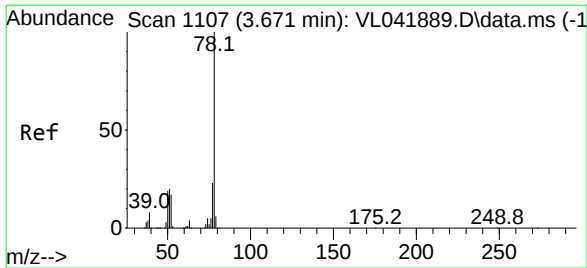
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#35
Carbon Tetrachloride
Concen: 0.051 ppbv m
RT: 3.764 min Scan# 1136
Delta R.T. -0.013 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Tgt Ion:117 Resp: 1274
Ion Ratio Lower Upper
117 100
119 83.3 76.9 115.3
121 0.0 23.8 35.6#





#36

Benzene

Concen: 0.156 ppbv

RT: 3.661 min Scan# 11

Delta R.T. -0.010 min

Lab File: VL041922.D

Acq: 20 Jan 2025 16:12

Instrument :

MSVOA_L

ClientSampleId :

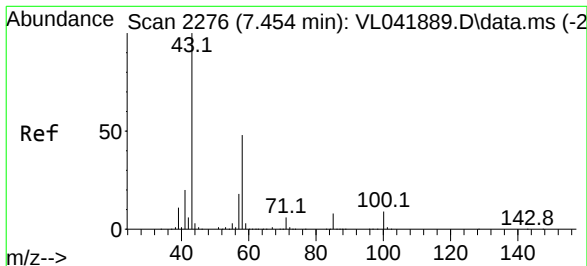
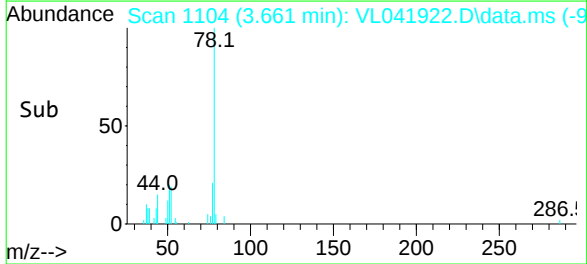
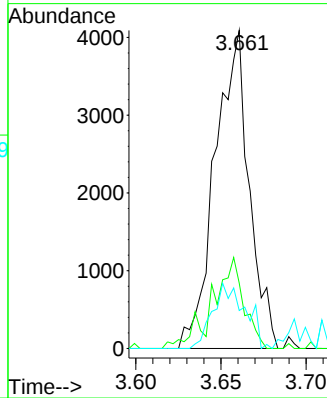
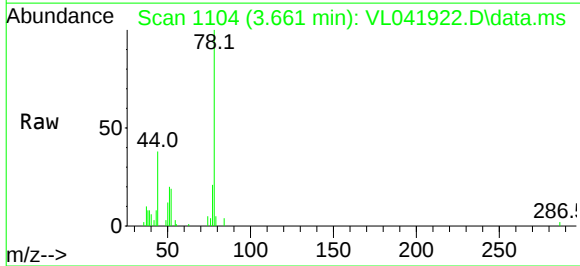
SV2

Tgt	Ion	78	Resp:	5690
Ion	Ratio	Lower	Upper	
78	100			
77	20.6	18.1	27.1	
50	11.9	15.2	22.8	#

Manual Integrations

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



#51

2-Hexanone

Concen: 0.290 ppbv m

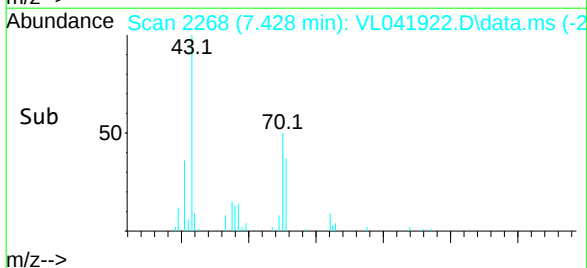
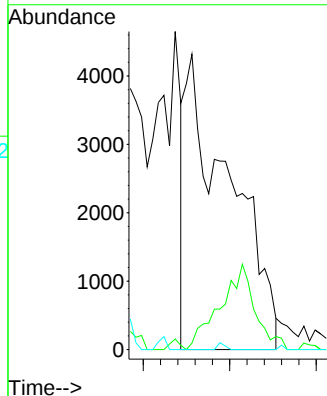
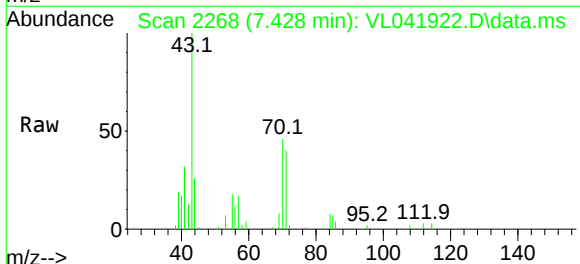
RT: 7.428 min Scan# 2268

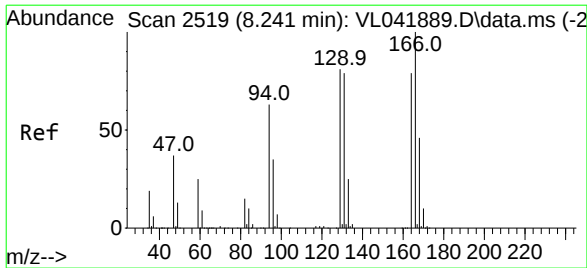
Delta R.T. -0.026 min

Lab File: VL041922.D

Acq: 20 Jan 2025 16:12

Tgt	Ion	43	Resp:	7702
Ion	Ratio	Lower	Upper	
43	100			
58	0.0	40.4	60.6	#
98	0.0	0.2	0.2	#





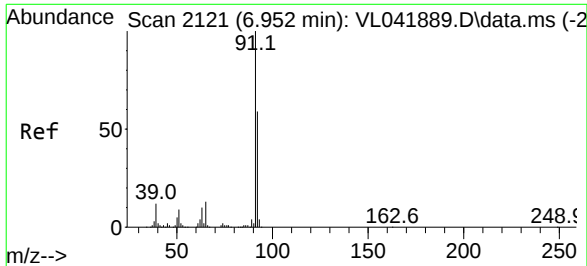
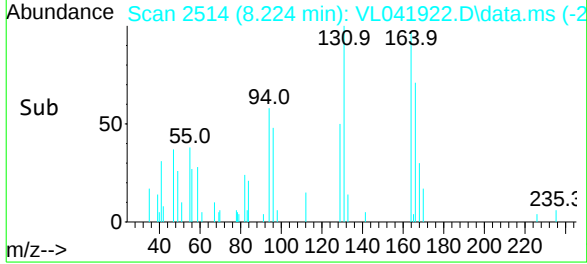
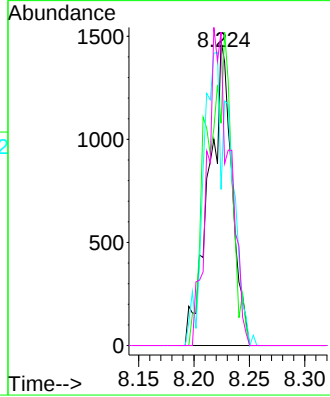
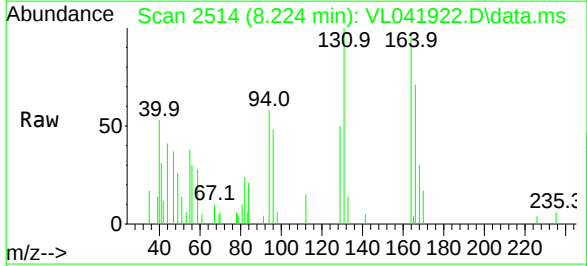
#52
Tetrachloroethene
Concen: 0.167 ppbv m
RT: 8.224 min Scan# 2519
Delta R.T. -0.016 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Instrument : MSVOA_L
ClientSampleId : SV2

Tgt	Ion:164	Resp:	2111
Ion	Ratio	Lower	Upper
164	100		
166	72.9	100.8	151.2
129	51.2	82.0	123.0
131	102.8	80.2	120.2

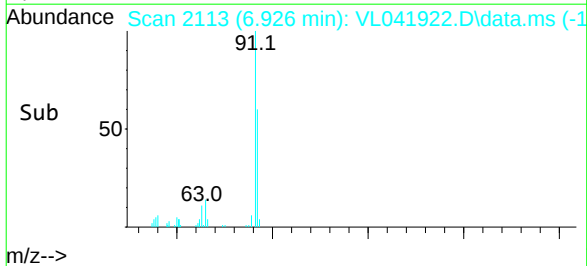
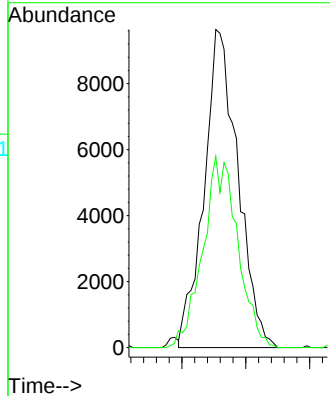
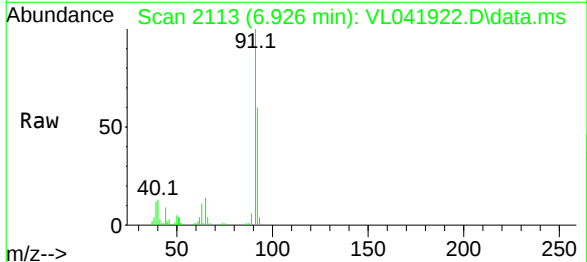
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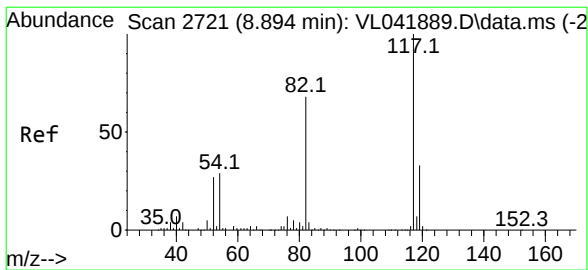
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#53
Toluene
Concen: 0.445 ppbv
RT: 6.926 min Scan# 2113
Delta R.T. -0.026 min
Lab File: VL041922.D
Acq: 20 Jan 2025 16:12

Tgt	Ion: 91	Resp:	17721
Ion	Ratio	Lower	Upper
91	100		
92	61.9	47.4	71.0





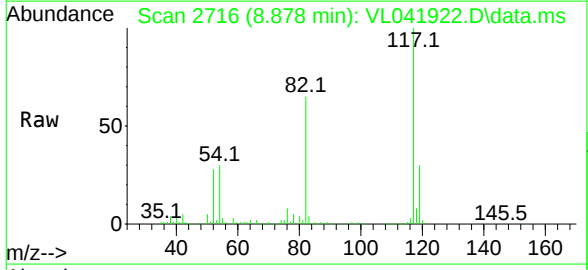
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 8.878 min Scan# 2716
 Delta R.T. -0.016 min
 Lab File: VL041922.D
 Acq: 20 Jan 2025 16:12

Instrument :

MSVOA_L

ClientSampleId :

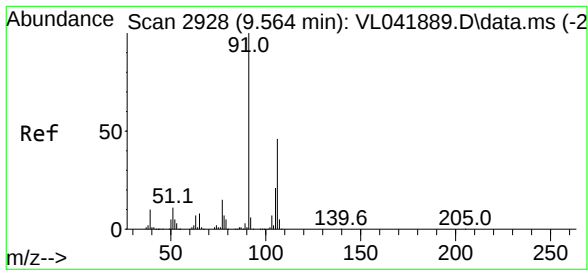
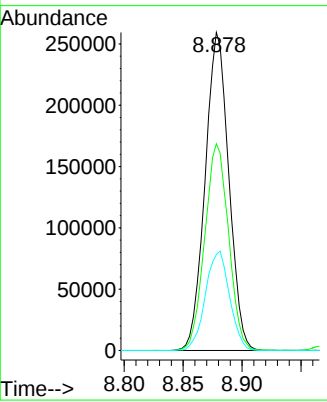
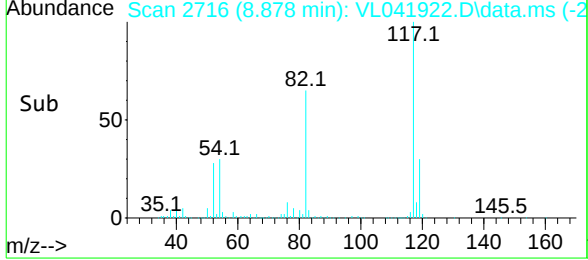
SV2



Tgt Ion:	117	Resp:	362259
Ion Ratio	Lower	Upper	
117	100		
82	65.5	54.2	81.4
119	31.9	25.0	37.6

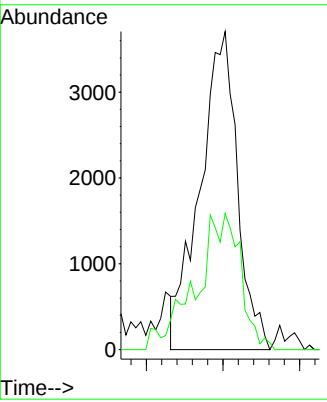
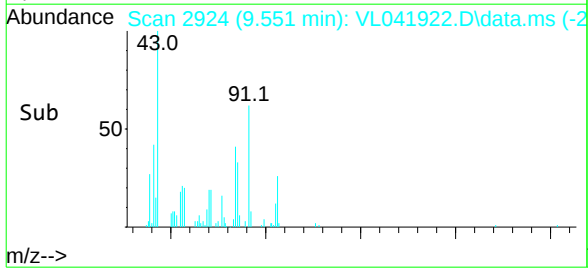
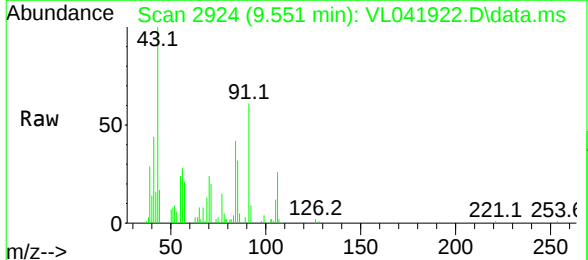
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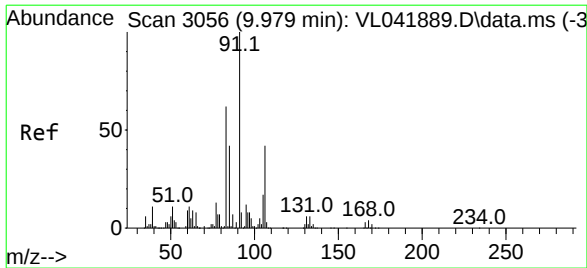
Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025



#59
 m/p-Xylene
 Concen: 0.138 ppbv
 RT: 9.551 min Scan# 2924
 Delta R.T. -0.013 min
 Lab File: VL041922.D
 Acq: 20 Jan 2025 16:12

Tgt Ion:	91	Resp:	6282
Ion Ratio	Lower	Upper	
91	100		
106	51.4	36.0	54.0





#60

o-Xylene

Concen: 0.155 ppbv

RT: 9.959 min Scan# 3056

Delta R.T. -0.020 min

Lab File: VL041922.D

Acq: 20 Jan 2025 16:12

Instrument :

MSVOA_L

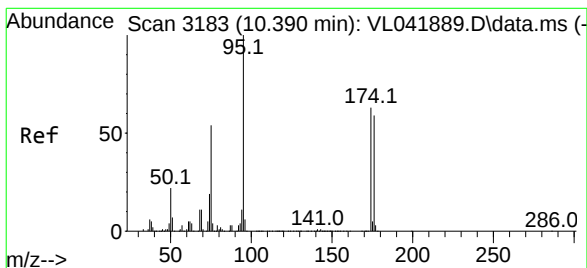
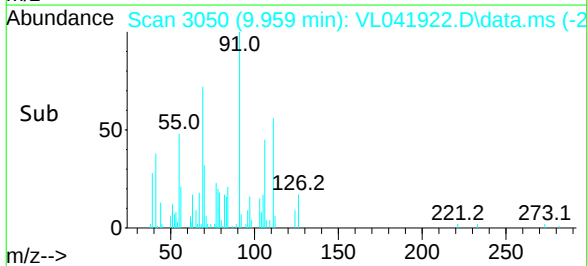
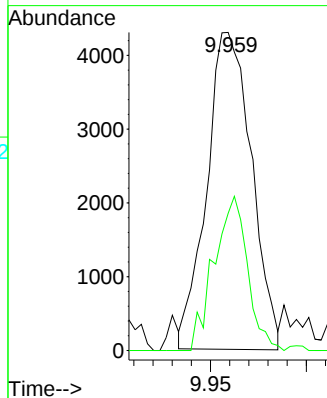
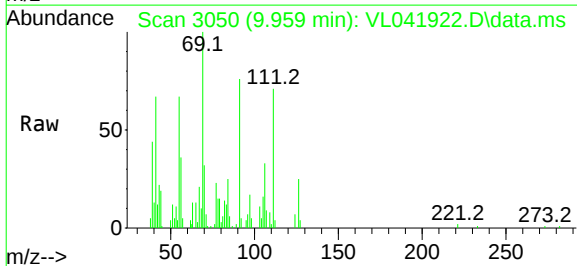
ClientSampleId :

SV2

Tgt Ion: 91 Resp: 6971
 Ion Ratio Lower Upper
 91 100
 106 36.9 21.3 63.9

Manual Integrations
 APPROVED

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



#68

1-Bromo-4-Fluorobenzene

Concen: 10.295 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.016 min

Lab File: VL041922.D

Acq: 20 Jan 2025 16:12

Tgt Ion: 95 Resp: 293749
 Ion Ratio Lower Upper
 95 100
 174 59.4 49.0 73.4
 175 4.7 3.8 5.8

