

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050624\
 Data File : VL041227.D
 Acq On : 6 May 2024 20:58
 Operator : SY/MD
 Sample : P2353-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2024
 Supervised By :Mahesh Dadoda 05/07/2024

Quant Time: May 07 05:28:13 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

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

QLast Update : Tue May 07 05:19:44 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.201	49	857065	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2235407	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2004989	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1497984	9.896	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	47542	0.410	ppbv	98
3) Chlorodifluoromethane	2.690	51	44438	0.341	ppbv	94
4) Chloromethane	2.832	50	74706	1.463	ppbv	96
6) Bromomethane	3.137	94	4756	0.254	ppbv #	78
7) Chloroethane	3.211	64	3546m	0.196	ppbv	
9) Propene	2.709	41	79877	1.568	ppbv	92
11) Trichlorofluoromethane	3.574	101	27463	0.233	ppbv	100
13) Ethanol	3.256	45	146773	12.853	ppbv	94
15) Acetone	3.481	43	930217	9.196	ppbv	98
20) Methylene Chloride	3.947	84	57367m	1.631	ppbv	
26) Hexane	5.221	57	284751	3.160	ppbv #	42
29) Chloroform	5.282	83	102976	0.828	ppbv	94
30) Cyclohexane	6.613	84	17669	0.248	ppbv #	80
34) 2-Butanone	4.803	43	82552	0.726	ppbv	97
35) Carbon Tetrachloride	6.500	117	20013m	0.160	ppbv	
36) Benzene	6.378	78	38935	0.208	ppbv	97
42) Bromodichloromethane	7.253	83	18882m	0.135	ppbv	
52) Tetrachloroethene	10.613	164	7559m	0.115	ppbv	
53) Toluene	9.224	91	17133m	0.079	ppbv	

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

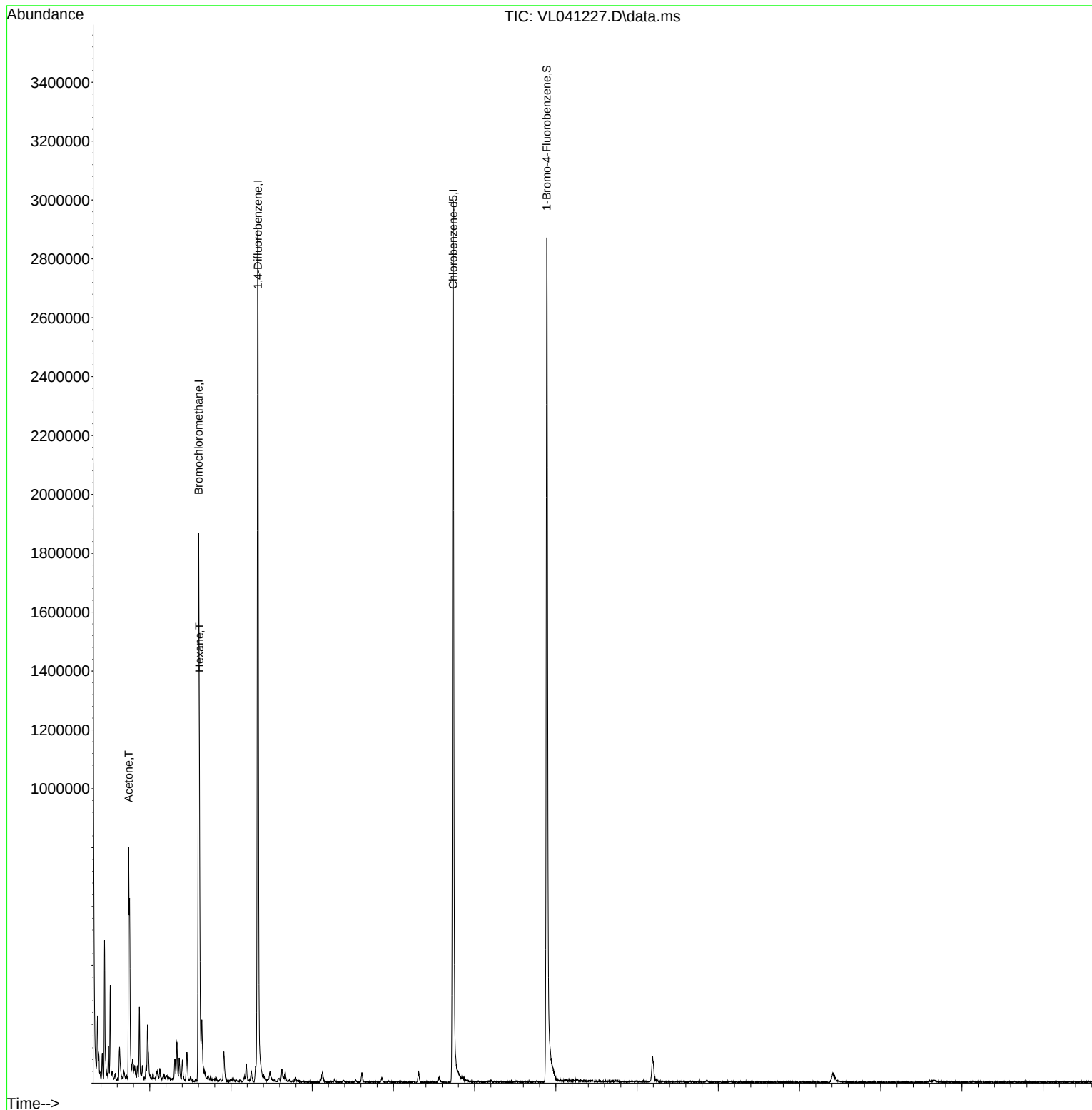
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050624\
Data File : VL041227.D
Acq On : 6 May 2024 20:58
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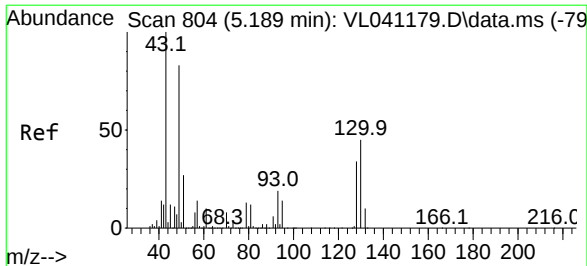
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: May 07 05:28:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue May 07 05:19:44 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

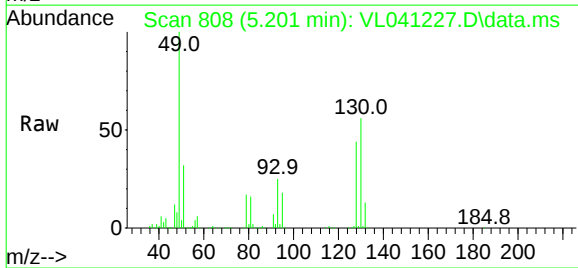
Reviewed By : Semsettin Yesilyurt 05/07/2024
Supervised By : Mahesh Dadoda 05/07/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.201 min Scan# 80
Delta R.T. 0.006 min
Lab File: VL041227.D
Acq: 6 May 2024 20:58

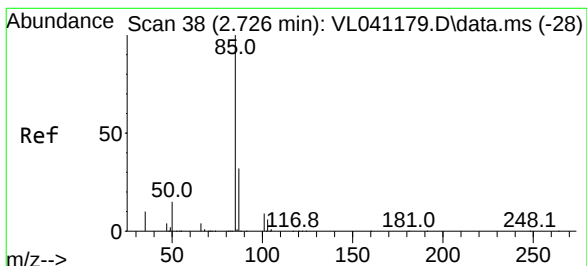
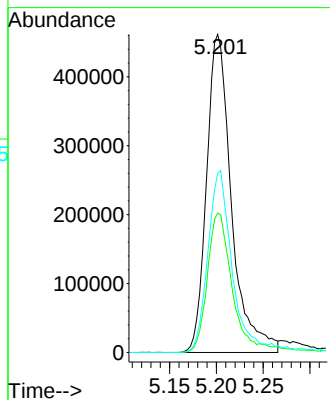
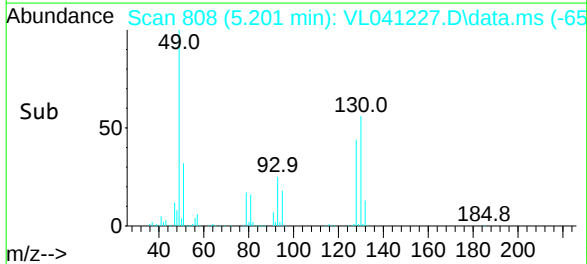
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 857065
Ion Ratio Lower Upper
49 100
128 45.6 21.5 64.5
130 57.6 27.2 81.6

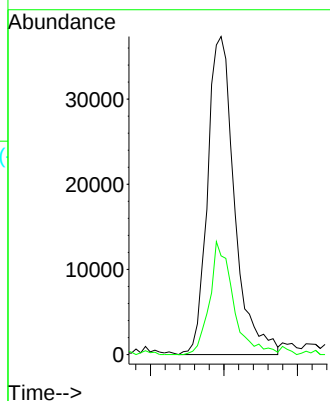
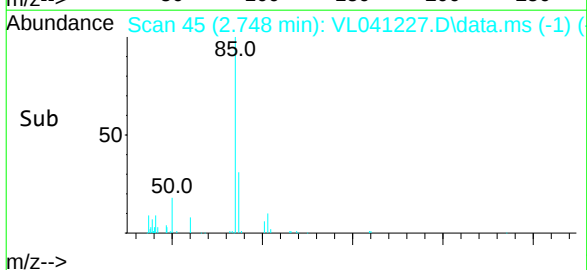
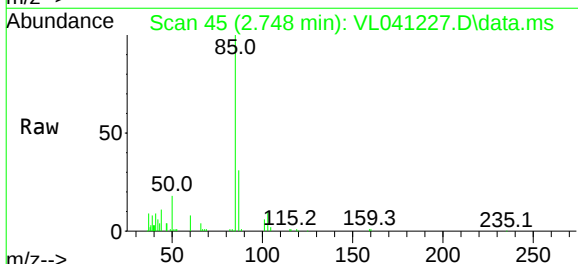
Manual Integrations
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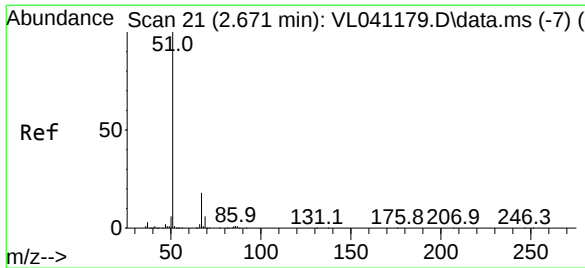
Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024



#2
Dichlorodifluoromethane
Concen: 0.410 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.010 min
Lab File: VL041227.D
Acq: 6 May 2024 20:58

Tgt Ion: 85 Resp: 47542
Ion Ratio Lower Upper
85 100
87 31.0 25.7 38.5





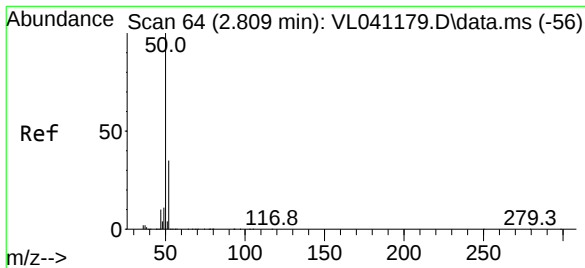
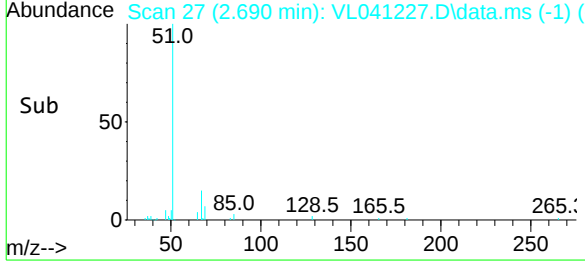
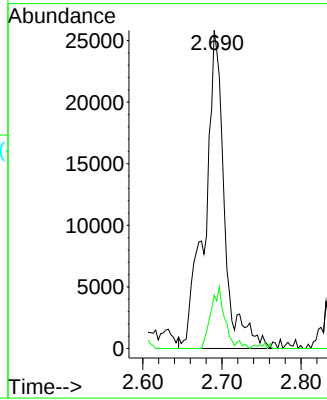
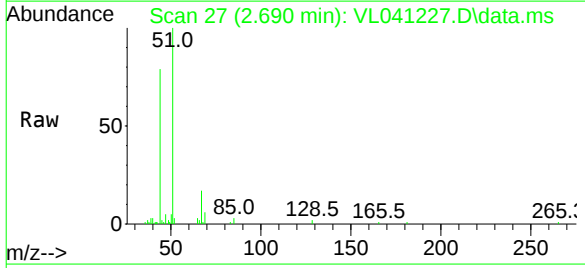
#3
Chlorodifluoromethane
Concen: 0.341 ppbv
RT: 2.690 min Scan# 27
Delta R.T. 0.006 min
Lab File: VL041227.D
Acq: 6 May 2024 20:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 44438
Ion Ratio Lower Upper
51 100
67 14.9 14.0 21.0

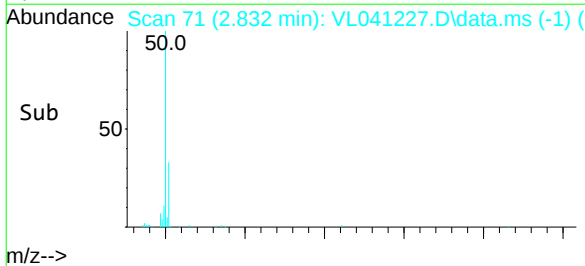
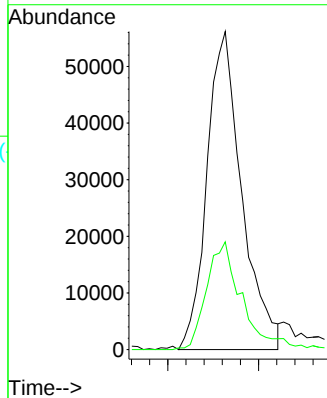
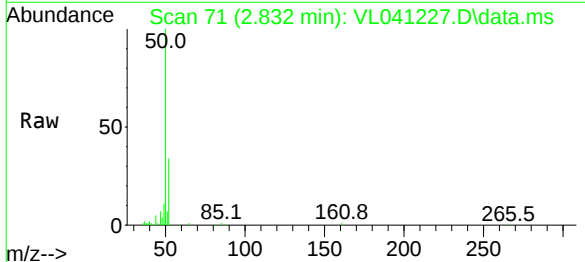
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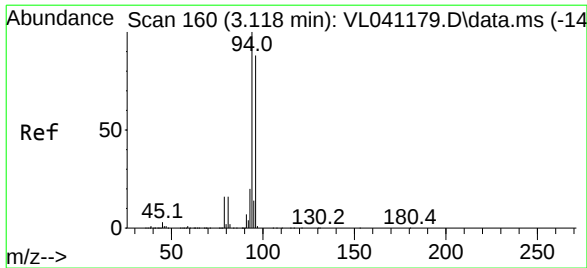
Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024



#4
Chloromethane
Concen: 1.463 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.010 min
Lab File: VL041227.D
Acq: 6 May 2024 20:58

Tgt Ion: 50 Resp: 74706
Ion Ratio Lower Upper
50 100
52 33.3 28.3 42.5





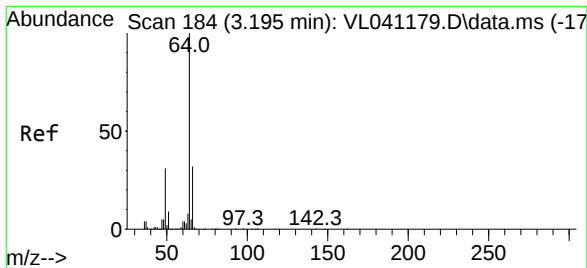
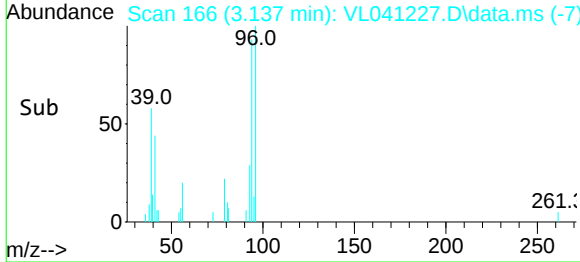
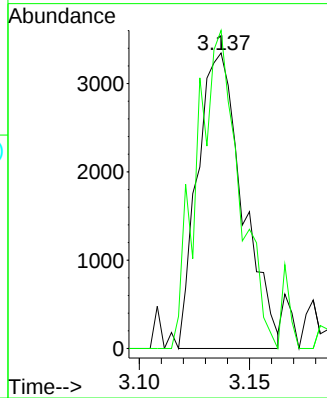
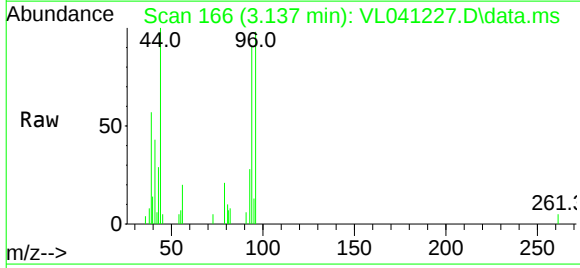
#6
Bromomethane
Concen: 0.254 ppbv
RT: 3.137 min Scan# 160
Delta R.T. 0.010 min
Lab File: VL041227.D
Acq: 6 May 2024 20:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 94 Resp: 4756
Ion Ratio Lower Upper
94 100
96 107.7 70.1 105.1#

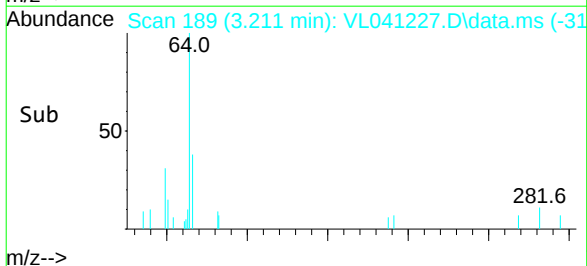
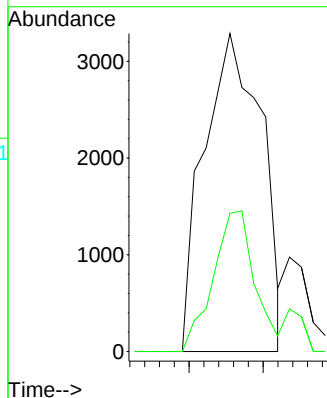
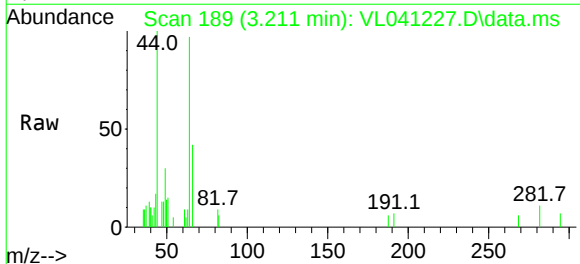
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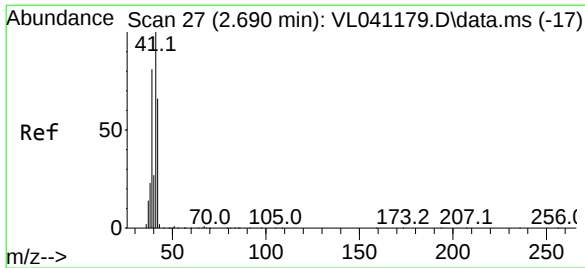
Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024



#7
Chloroethane
Concen: 0.196 ppbv m
RT: 3.211 min Scan# 189
Delta R.T. 0.006 min
Lab File: VL041227.D
Acq: 6 May 2024 20:58

Tgt Ion: 64 Resp: 3546
Ion Ratio Lower Upper
64 100
66 43.4 25.4 38.2#





#9

Propene

Concen: 1.568 ppbv

RT: 2.709 min Scan# 33

Delta R.T. 0.006 min

Lab File: VL041227.D

Acq: 6 May 2024 20:58

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 41 Resp: 79877

Ion Ratio Lower Upper

41 100

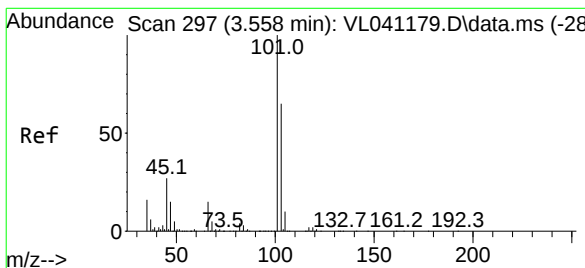
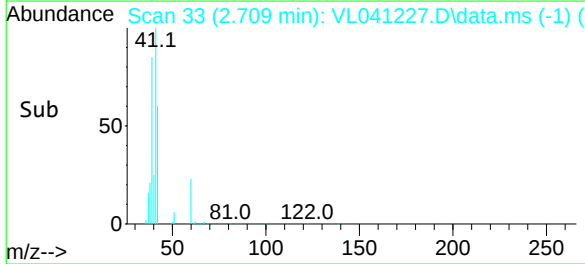
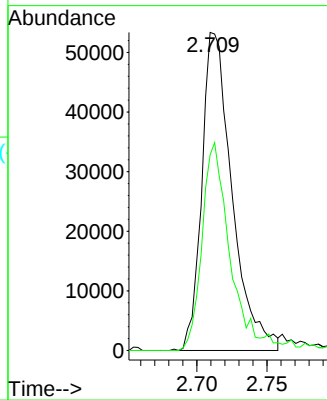
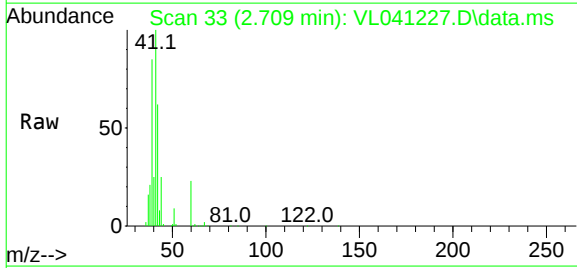
42 62.9 55.3 82.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/07/2024

Supervised By :Mahesh Dadoda 05/07/2024



#11

Trichlorofluoromethane

Concen: 0.233 ppbv

RT: 3.574 min Scan# 302

Delta R.T. 0.006 min

Lab File: VL041227.D

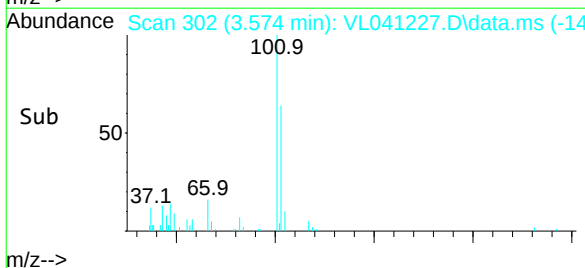
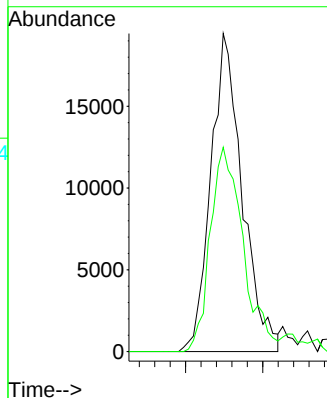
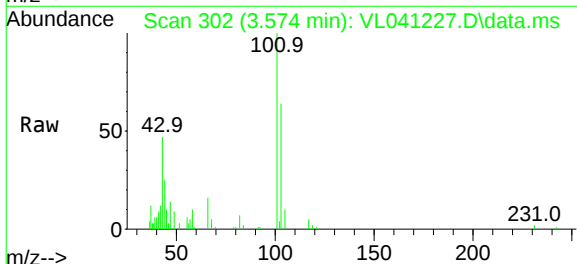
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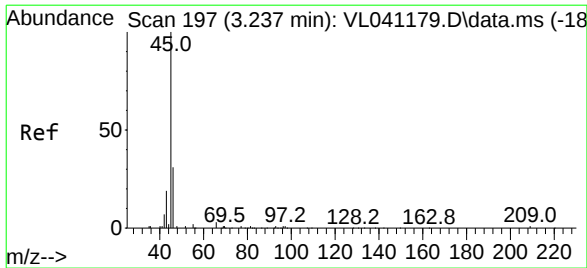
Tgt Ion:101 Resp: 27463

Ion Ratio Lower Upper

101 100

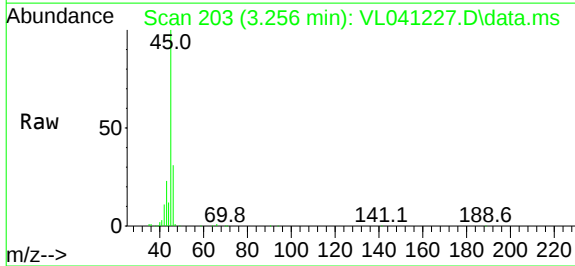
103 64.2 51.6 77.4





#13
Ethanol
Concen: 12.853 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.013 min
Lab File: VL041227.D
Acq: 6 May 2024 20:58

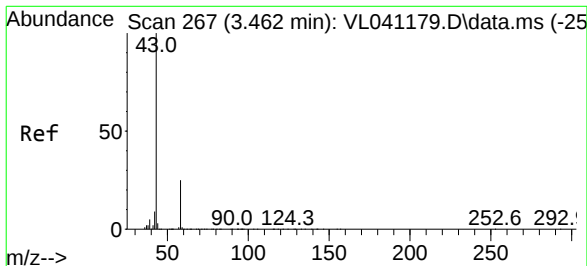
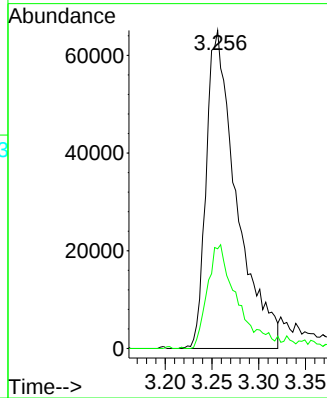
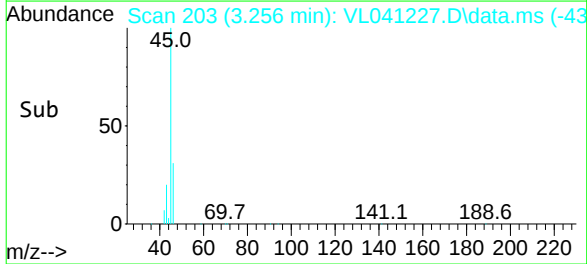
Instrument :
MSVOA_L
ClientSampleId :
OA1



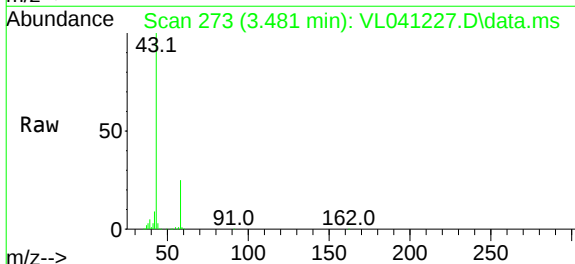
Tgt Ion: 45 Resp: 146773
Ion Ratio Lower Upper
45 100
46 33.3 14.8 59.0

Manual Integrations
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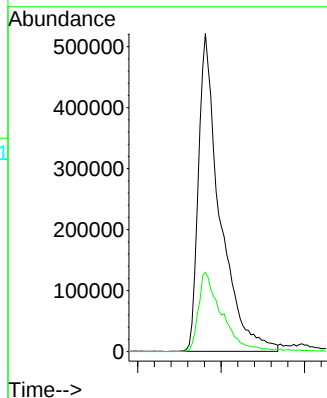
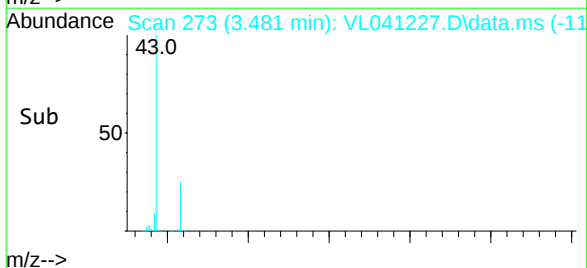
Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024

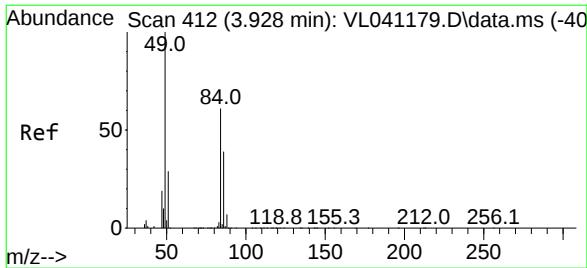


#15
Acetone
Concen: 9.196 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.006 min
Lab File: VL041227.D
Acq: 6 May 2024 20:58



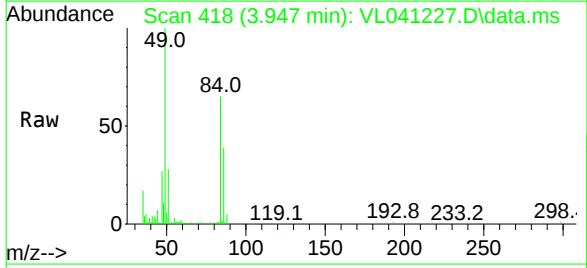
Tgt Ion: 43 Resp: 930217
Ion Ratio Lower Upper
43 100
58 28.0 21.4 32.0





#20
Methylene Chloride
Concen: 1.631 ppbv m
RT: 3.947 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL041227.D
Acq: 6 May 2024 20:58

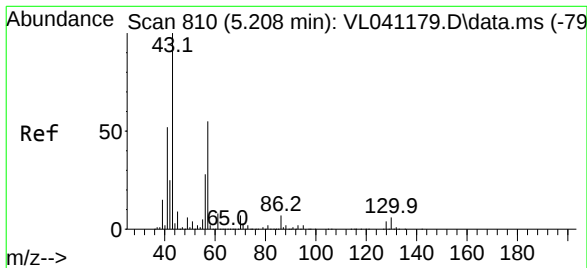
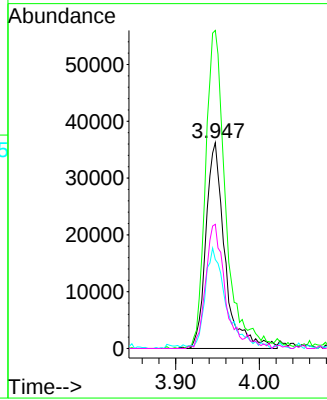
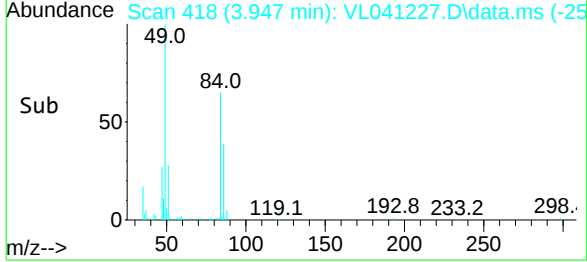
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:	84	Resp:	57367
Ion	Ratio	Lower	Upper
84	100		
49	154.6	130.4	195.6
51	43.2	38.0	57.0
86	60.3	50.3	75.5

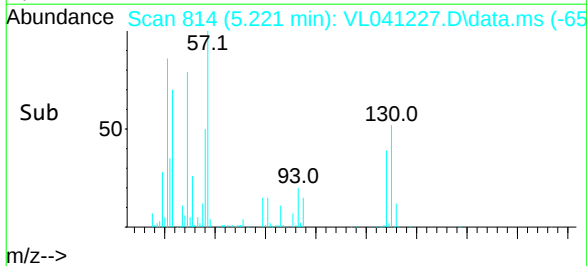
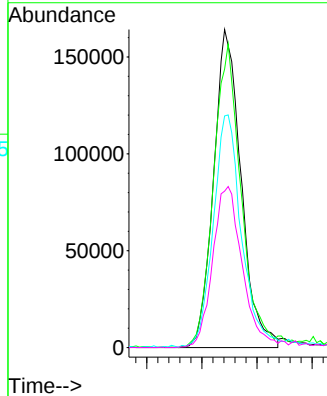
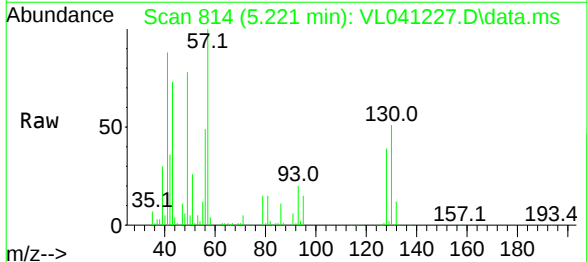
Manual Integrations
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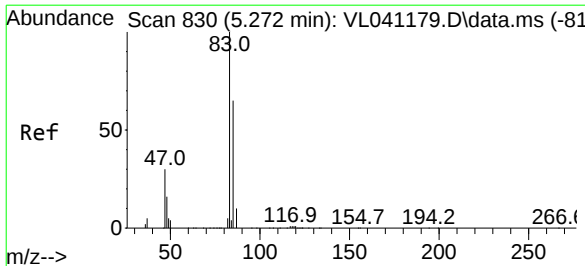
Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024



#26
Hexane
Concen: 3.160 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.006 min
Lab File: VL041227.D
Acq: 6 May 2024 20:58

Tgt Ion:	57	Resp:	284751
Ion	Ratio	Lower	Upper
57	100		
41	98.6	75.8	113.8
43	77.7	187.0	280.4#
56	55.2	42.7	64.1





#29

Chloroform

Concen: 0.828 ppbv

RT: 5.282 min Scan# 83

Delta R.T. 0.003 min

Lab File: VL041227.D

Acq: 6 May 2024 20:58

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 83 Resp: 102976

Ion Ratio Lower Upper

83 100

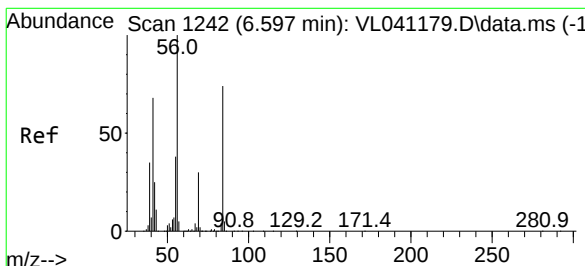
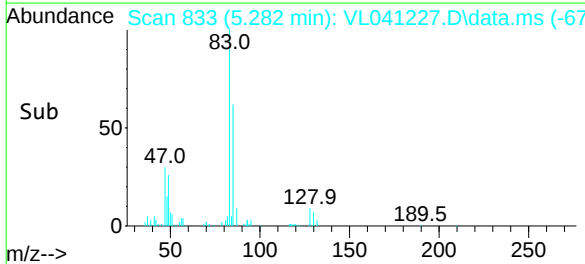
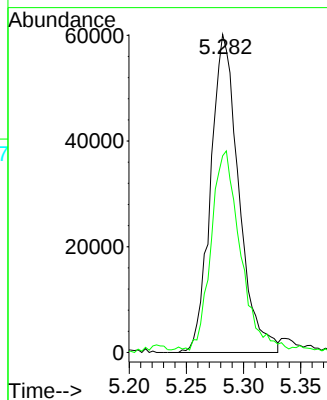
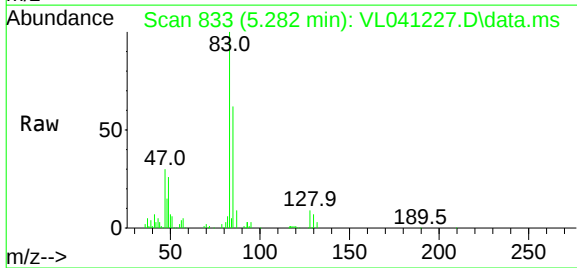
85 60.1 51.7 77.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2024

Supervised By :Mahesh Dadoda 05/07/2024



#30

Cyclohexane

Concen: 0.248 ppbv

RT: 6.613 min Scan# 1247

Delta R.T. 0.013 min

Lab File: VL041227.D

Acq: 6 May 2024 20:58

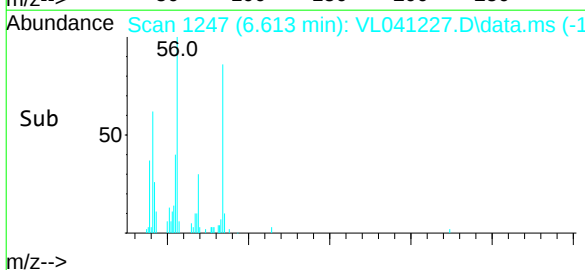
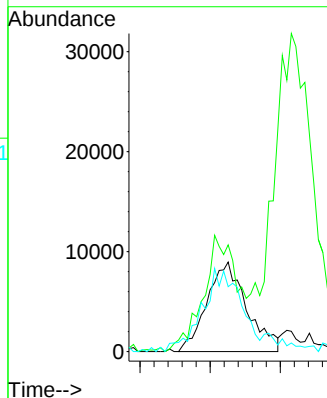
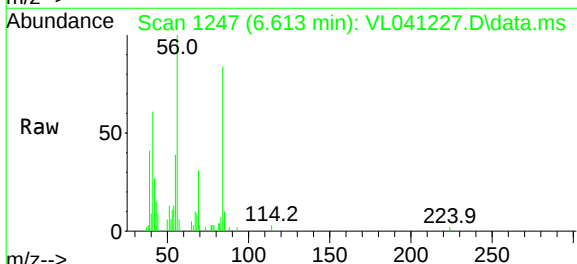
Tgt Ion: 84 Resp: 17669

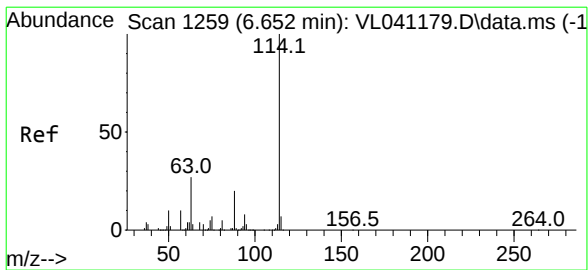
Ion Ratio Lower Upper

84 100

56 113.3 116.8 175.2#

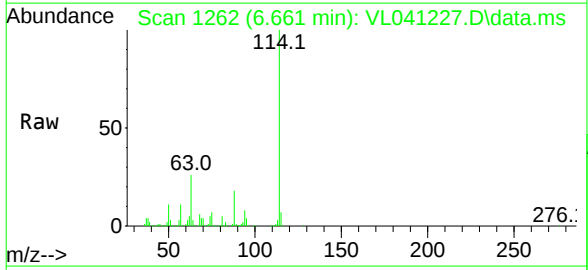
41 101.1 73.8 110.8





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 12
Delta R.T. 0.006 min
Lab File: VL041227.D
Acq: 6 May 2024 20:58

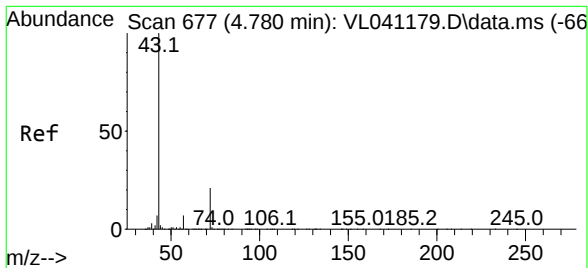
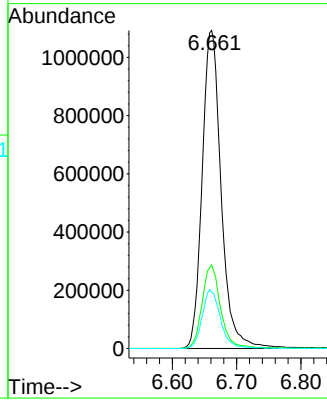
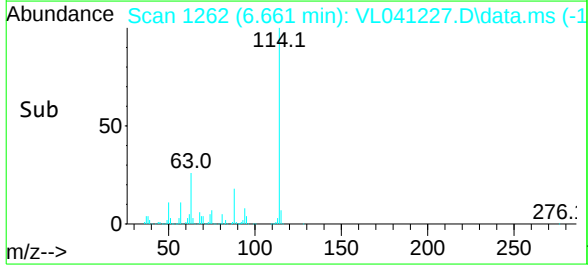
Instrument :
MSVOA_L
ClientSampleId :
OA1



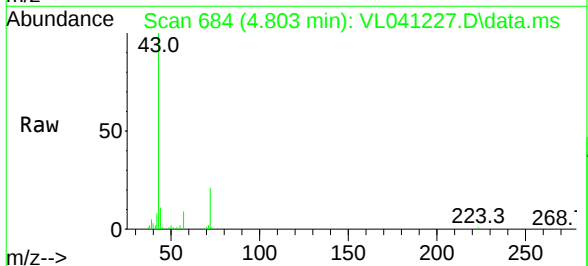
Tgt Ion:114 Resp: 2235407
Ion Ratio Lower Upper
114 100
63 25.8 21.8 32.6
88 18.0 15.2 22.8

Manual Integrations
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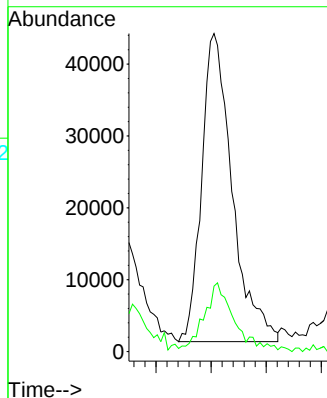
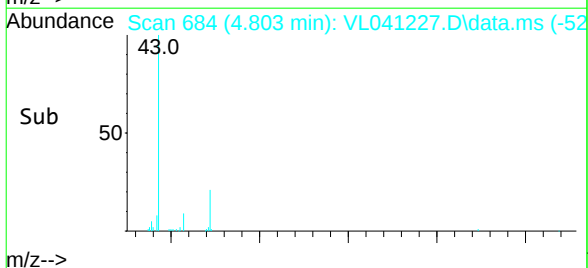
Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024

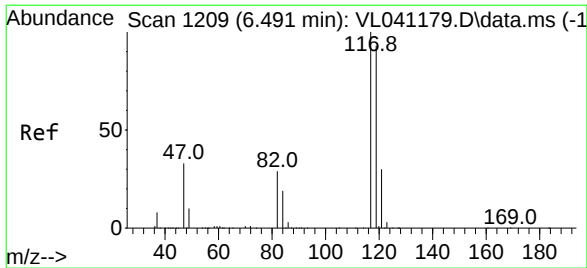


#34
2-Butanone
Concen: 0.726 ppbv
RT: 4.803 min Scan# 684
Delta R.T. 0.016 min
Lab File: VL041227.D
Acq: 6 May 2024 20:58



Tgt Ion: 43 Resp: 82552
Ion Ratio Lower Upper
43 100
72 20.4 17.3 25.9





#35

Carbon Tetrachloride

Concen: 0.160 ppbv m

RT: 6.500 min Scan# 12

Delta R.T. 0.006 min

Lab File: VL041227.D

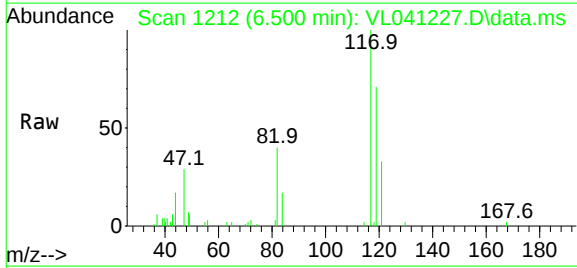
Acq: 6 May 2024 20:58

Instrument :

MSVOA_L

ClientSampleId :

OA1

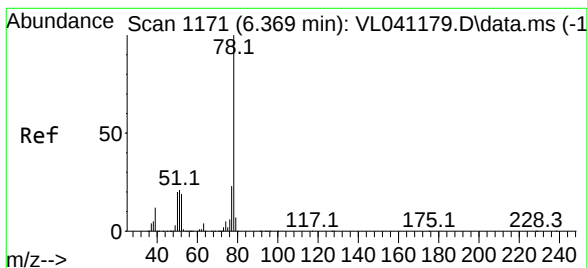
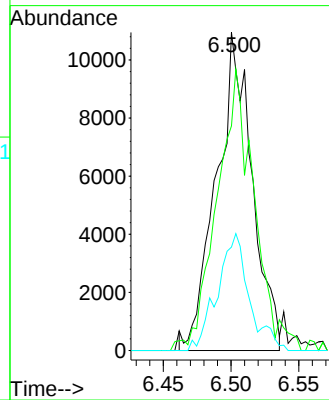
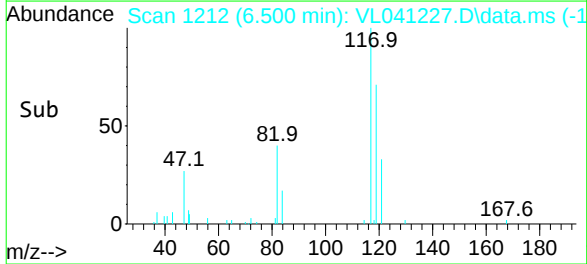


Tgt Ion:	117	Resp:	20013
Ion Ratio	100	Lower	Upper
117	100		
119	70.6	74.3	111.5
121	32.5	23.8	35.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024



#36

Benzene

Concen: 0.208 ppbv

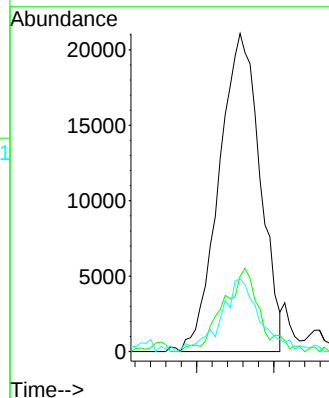
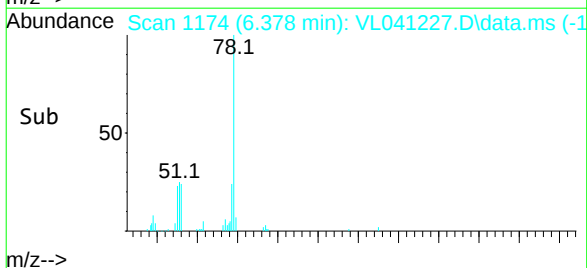
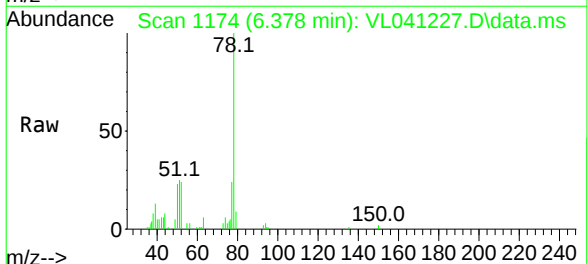
RT: 6.378 min Scan# 1174

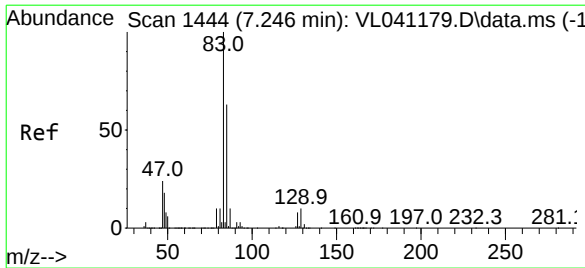
Delta R.T. 0.006 min

Lab File: VL041227.D

Acq: 6 May 2024 20:58

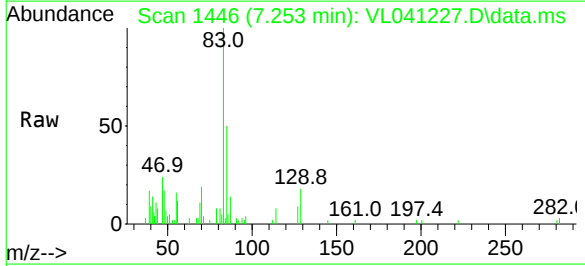
Tgt Ion:	78	Resp:	38935
Ion Ratio	100	Lower	Upper
78	100		
77	23.8	18.3	27.5
50	22.1	15.9	23.9





#42
 Bromodichloromethane
 Concen: 0.135 ppbv m
 RT: 7.253 min Scan# 1446
 Delta R.T. 0.003 min
 Lab File: VL041227.D
 Acq: 6 May 2024 20:58

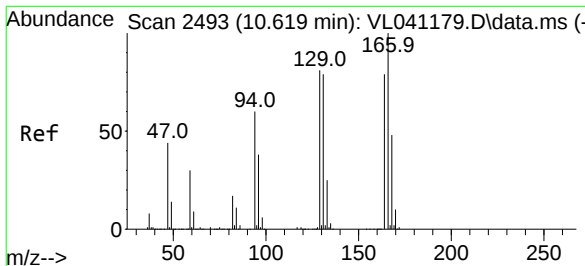
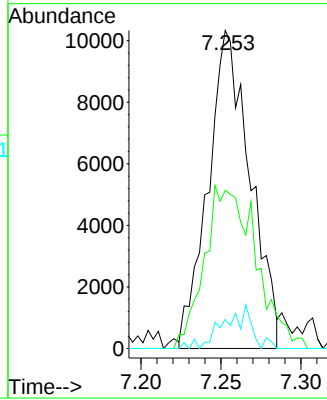
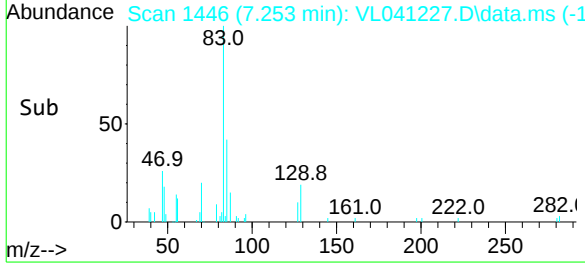
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



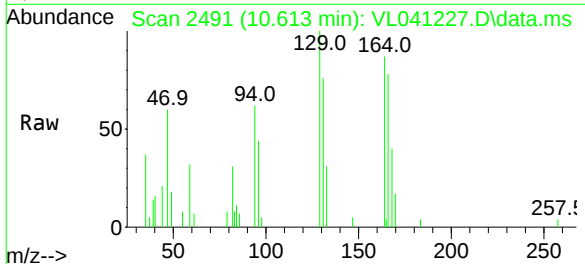
Tgt Ion	83	85	127
Ratio	100	49.7	9.1
Lower		50.6	6.2
Upper		75.8	9.4

Manual Integrations
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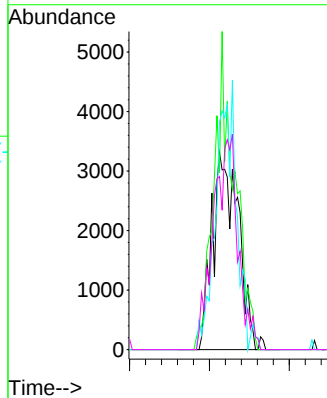
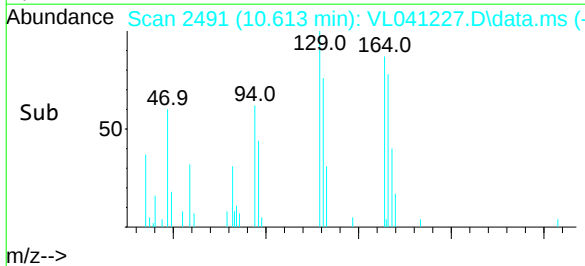
Reviewed By :Semsettin Yesilyurt 05/07/2024
 Supervised By :Mahesh Dadoda 05/07/2024

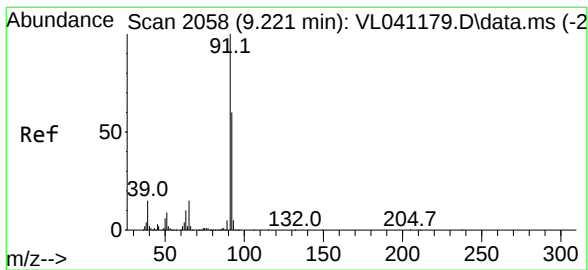


#52
 Tetrachloroethene
 Concen: 0.115 ppbv m
 RT: 10.613 min Scan# 2491
 Delta R.T. 0.000 min
 Lab File: VL041227.D
 Acq: 6 May 2024 20:58



Tgt Ion	164	166	129	131
Ratio	100	89.9	115.5	87.9
Lower		101.1	81.7	80.4
Upper		151.7	122.5	120.6





#53

Toluene

Concen: 0.079 ppbv m

RT: 9.224 min Scan# 2058

Delta R.T. 0.003 min

Lab File: VL041227.D

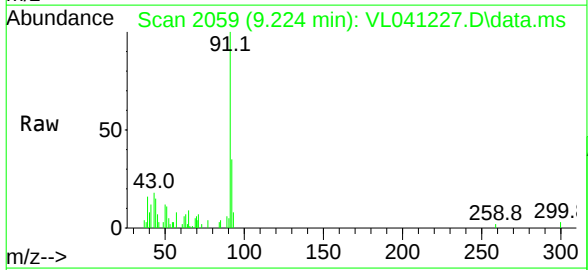
Acq: 6 May 2024 20:58

Instrument :

MSVOA_L

ClientSampleId :

OA1



Tgt Ion: 91 Resp: 17133

Ion Ratio Lower Upper

91 100

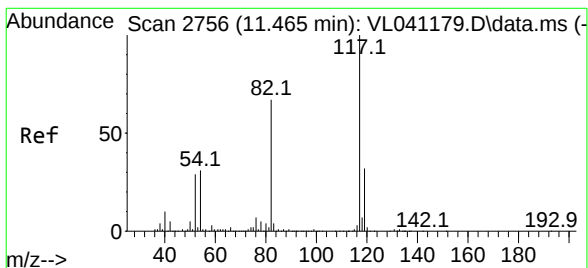
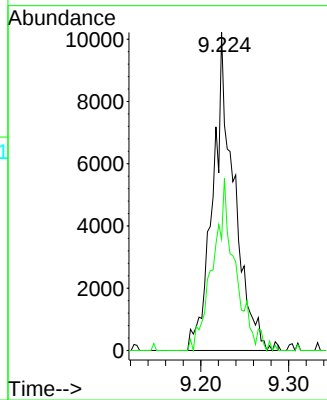
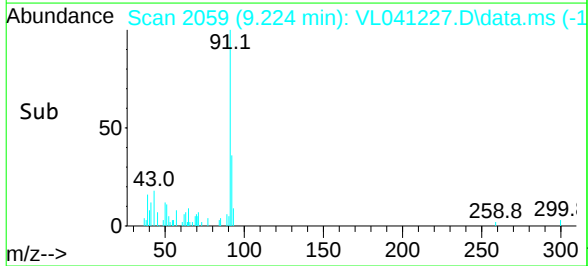
92 56.8 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2024

Supervised By :Mahesh Dadoda 05/07/2024



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.471 min Scan# 2758

Delta R.T. 0.006 min

Lab File: VL041227.D

Acq: 6 May 2024 20:58

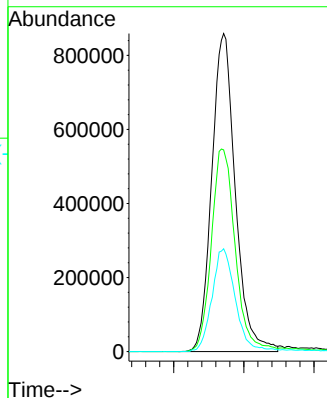
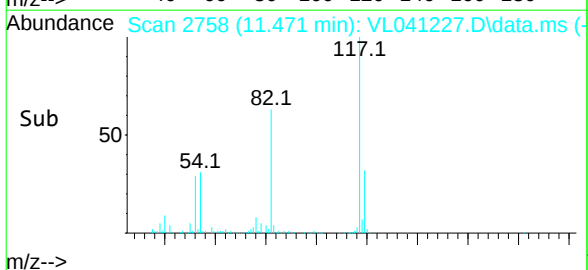
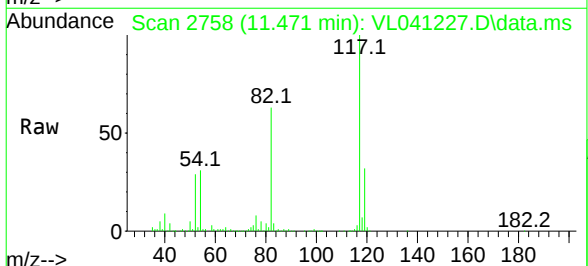
Tgt Ion:117 Resp: 2004989

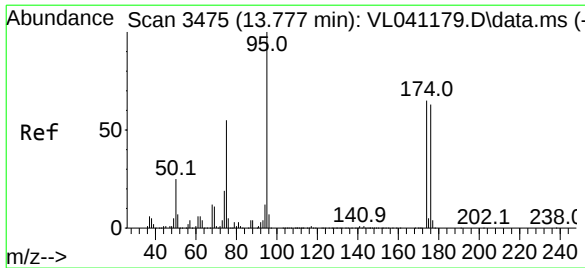
Ion Ratio Lower Upper

117 100

82 65.6 53.6 80.4

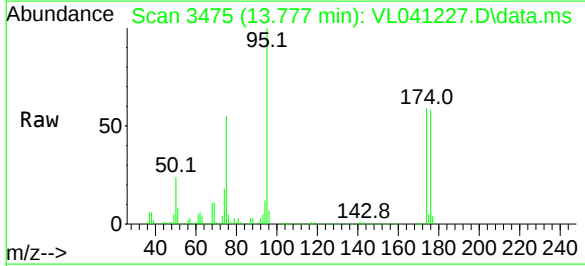
119 33.0 27.2 40.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.896 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.003 min
Lab File: VL041227.D
Acq: 6 May 2024 20:58

Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 95 Resp: 1497984

Ion	Ratio	Lower	Upper
95	100		
174	66.7	53.6	80.4
175	5.0	4.2	6.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2024
Supervised By :Mahesh Dadoda 05/07/2024

