

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042524\
 Data File : VL041169.D
 Acq On : 25 Apr 2024 13:56
 Operator : SY/MD
 Sample : P2253-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/26/2024
 Supervised By :Mahesh Dadoda 04/26/2024

Quant Time: Apr 26 03:12:50 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M

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

QLast Update : Fri Apr 26 03:09:28 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.176	49	1281652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.636	114	3423313	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	3117362	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.748	95	2452912	9.785	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	29689	0.135	ppbv	90
3) Chlorodifluoromethane	2.671	51	21730	0.110	ppbv #	87
9) Propene	2.700	41	887411	14.132	ppbv #	74
10) Heptane	7.558	43	83013m	0.557	ppbv	
13) Ethanol	3.240	45	45351	3.036	ppbv	90
15) Acetone	3.462	43	1166309	8.404	ppbv #	87
20) Methylene Chloride	3.925	84	248825	4.347	ppbv	91
22) trans-1,2-Dichloroethene	4.436	96	22164	0.344	ppbv #	75
26) Hexane	5.198	57	378015	3.233	ppbv #	40
27) Carbon Disulfide	4.115	76	1318875	9.204	ppbv	98
29) Chloroform	5.263	83	65715	0.333	ppbv	95
31) cis-1,2-Dichloroethene	5.066	61	20776m	0.188	ppbv	
32) 1,1,1-Trichloroethane	5.996	97	10665m	0.059	ppbv	
34) 2-Butanone	4.774	43	626198	4.323	ppbv	100
35) Carbon Tetrachloride	6.475	117	45715	0.235	ppbv	97
36) Benzene	6.349	78	45550m	0.181	ppbv	
38) Trichloroethene	7.272	130	135353m	1.490	ppbv	
44) 2,2,4-Trimethylpentane	7.311	57	91904	0.221	ppbv #	65
50) 4-Methyl-2-Pentanone	8.169	43	25248m	0.099	ppbv	
51) 2-Hexanone	9.536	43	264798	1.498	ppbv #	98
52) Tetrachloroethene	10.590	164	695605	8.672	ppbv	94
53) Toluene	9.195	91	435426	1.645	ppbv	99
58) Ethyl Benzene	12.063	91	169339m	0.496	ppbv	
59) m/p-Xylene	12.320	91	445444	1.445	ppbv	95
60) o-Xylene	13.031	91	130995	0.449	ppbv	100
72) 4-Ethyltoluene	15.169	105	97937m	0.300	ppbv	
73) 1,3,5-Trimethylbenzene	15.323	105	41541m	0.144	ppbv	
74) 1,2,4-Trimethylbenzene	16.072	105	154132m	0.468	ppbv	

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

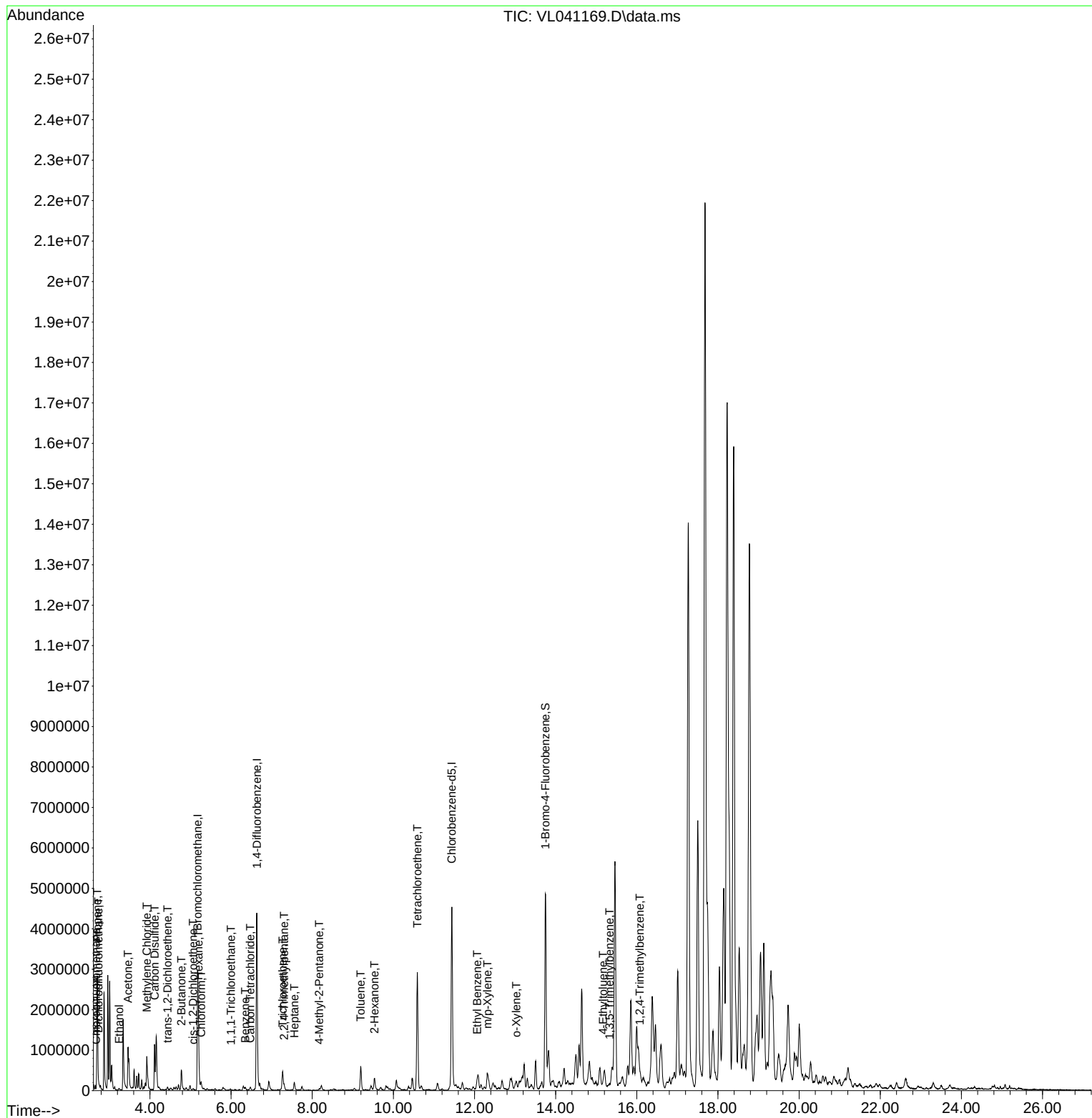
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042524\
Data File : VL041169.D
Acq On : 25 Apr 2024 13:56
Operator : SY/MD
Sample : P2253-01 4X
Misc : 400mL/MSVOA_L
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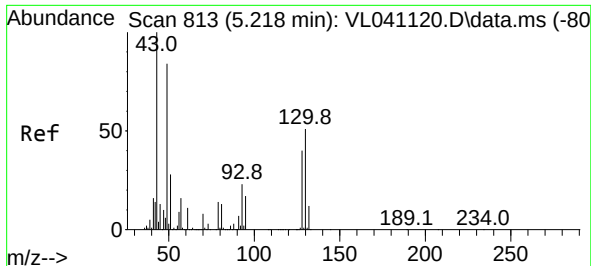
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Apr 26 03:12:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 26 03:09:28 2024
Response via : Initial Calibration

Manual Integrations
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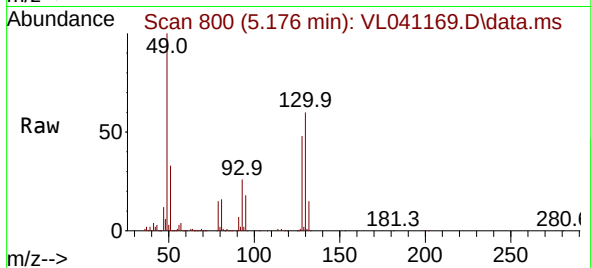
Reviewed By : Semsettin Yesilyurt 04/26/2024
Supervised By : Mahesh Dadoda 04/26/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

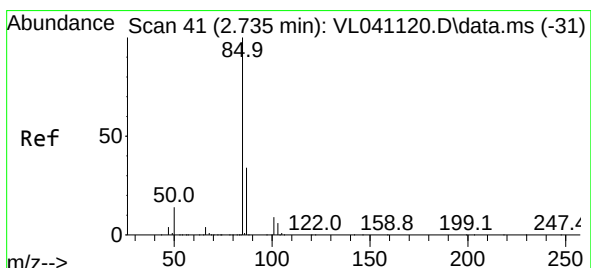
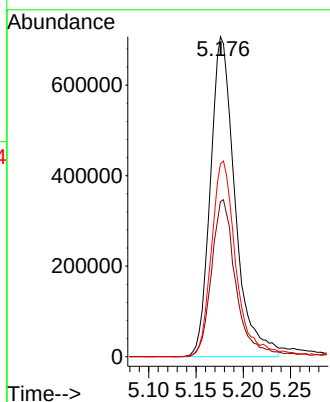
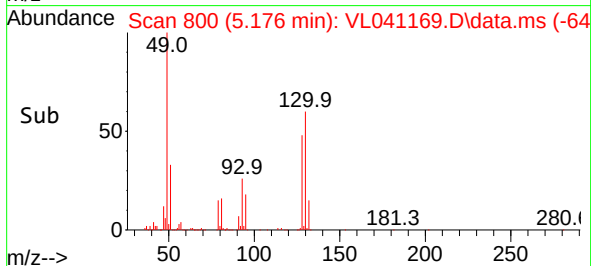
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 128165
Ion Ratio Lower Upper
49 100
128 49.7 23.6 71.0
130 62.7 30.1 90.5

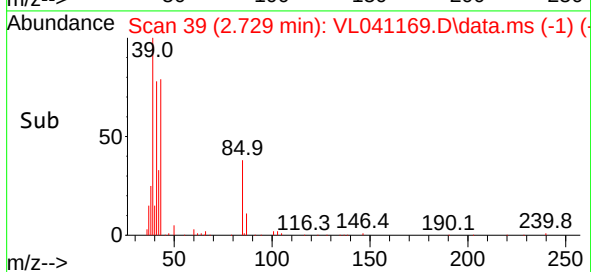
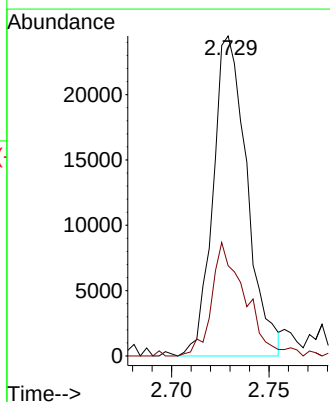
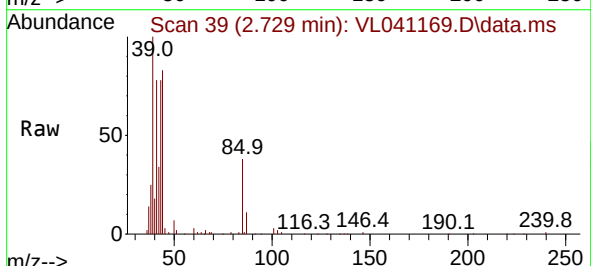
Manual Integrations
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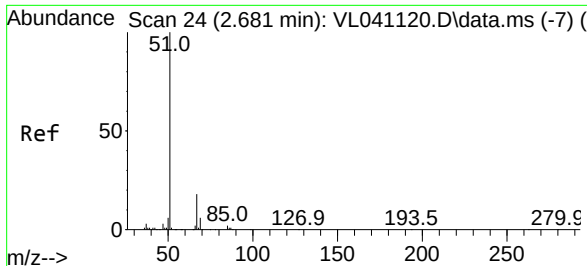
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#2
Dichlorodifluoromethane
Concen: 0.135 ppbv
RT: 2.729 min Scan# 39
Delta R.T. 0.000 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

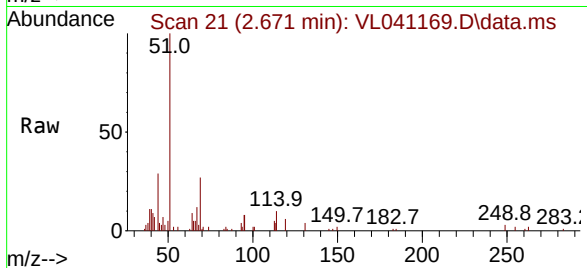
Tgt Ion: 85 Resp: 29689
Ion Ratio Lower Upper
85 100
87 28.2 27.0 40.6





#3
Chlorodifluoromethane
Concen: 0.110 ppbv
RT: 2.671 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

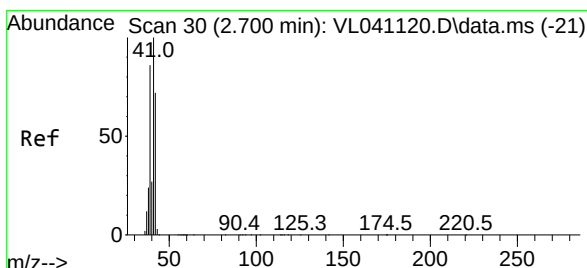
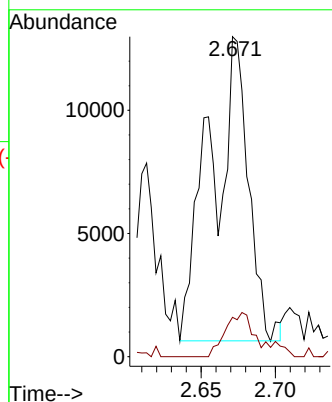
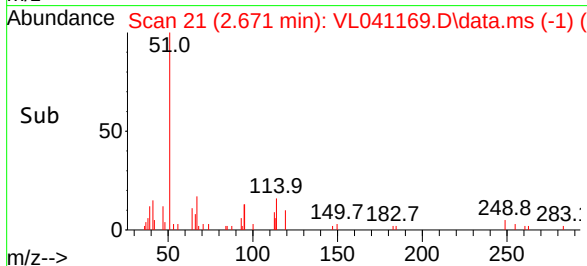
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 51 Resp: 21730
Ion Ratio Lower Upper
51 100
67 12.7 14.9 22.3

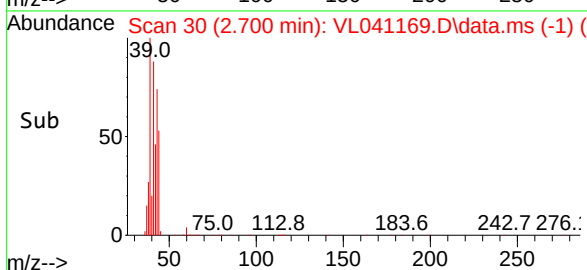
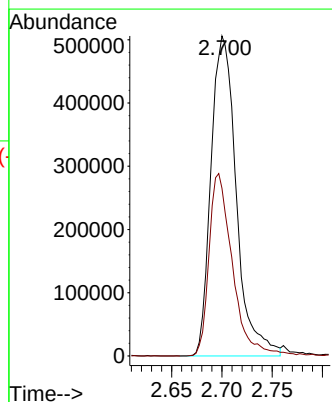
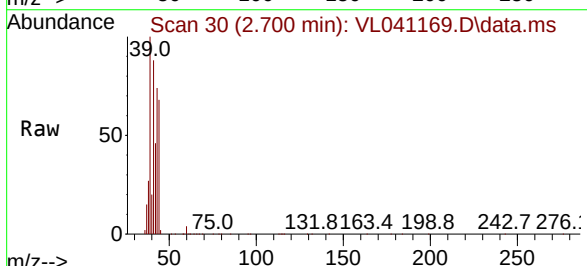
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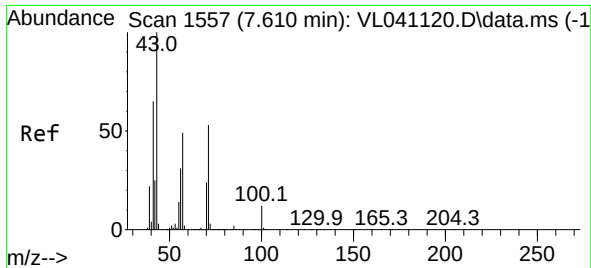
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#9
Propene
Concen: 14.132 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.007 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

Tgt Ion: 41 Resp: 887411
Ion Ratio Lower Upper
41 100
42 53.0 60.1 90.1





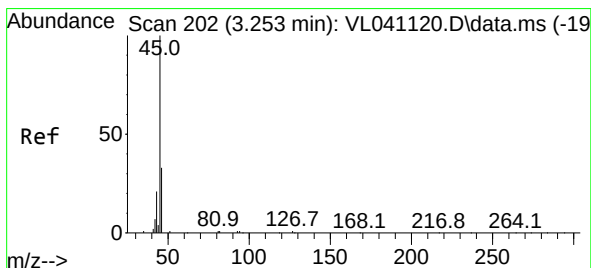
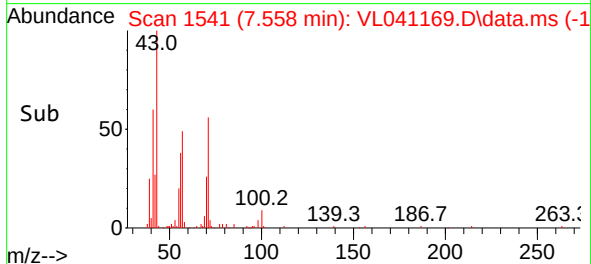
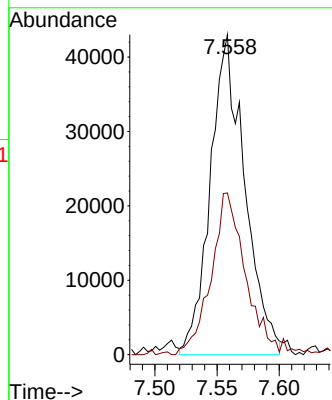
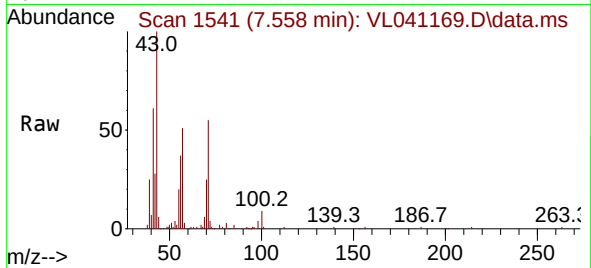
#10
Heptane
Concen: 0.557 ppbv m
RT: 7.558 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 8301
Ion Ratio Lower Upper
43 100
57 52.2 39.9 59.9

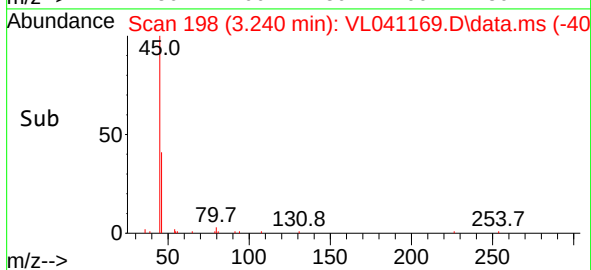
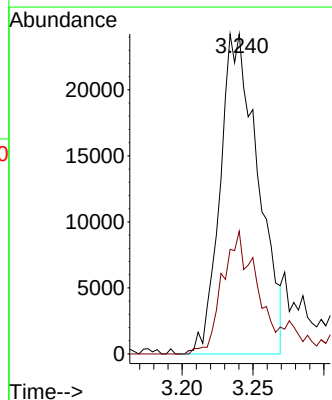
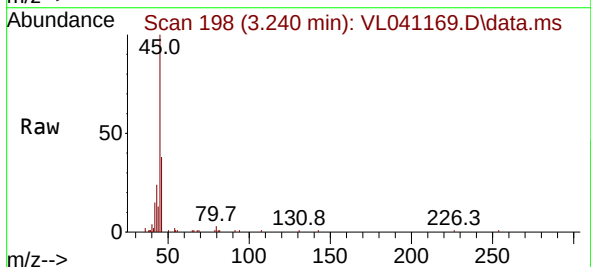
Manual Integrations
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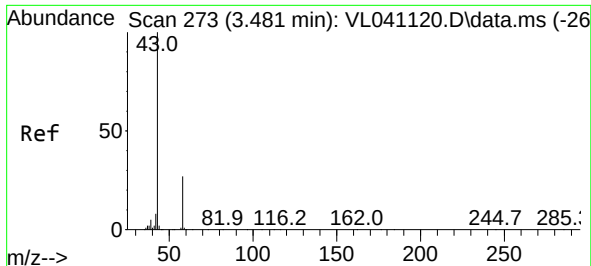
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#13
Ethanol
Concen: 3.036 ppbv
RT: 3.240 min Scan# 198
Delta R.T. 0.007 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

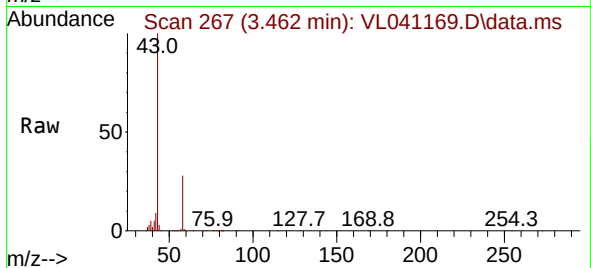
Tgt Ion: 45 Resp: 45351
Ion Ratio Lower Upper
45 100
46 43.3 15.0 59.8





#15
Acetone
Concen: 8.404 ppbv
RT: 3.462 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

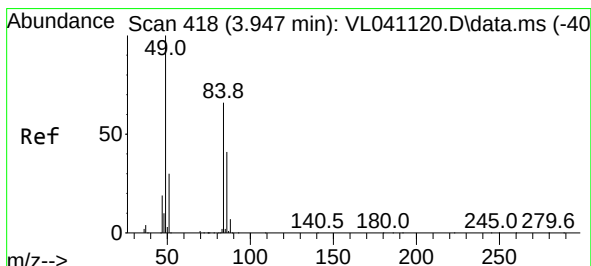
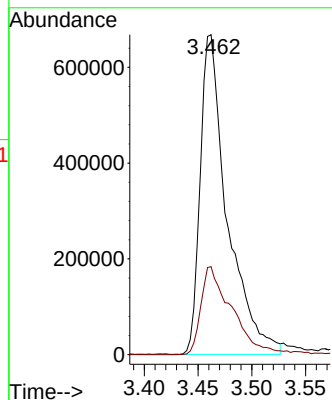
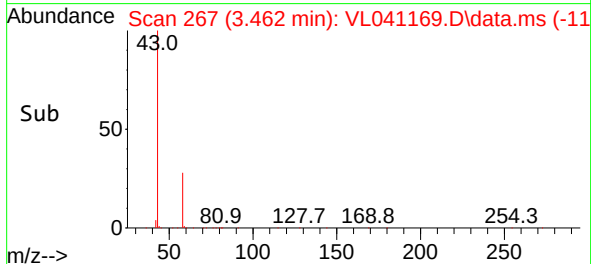
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 1166309
Ion Ratio Lower Upper
43 100
58 33.0 21.1 31.7

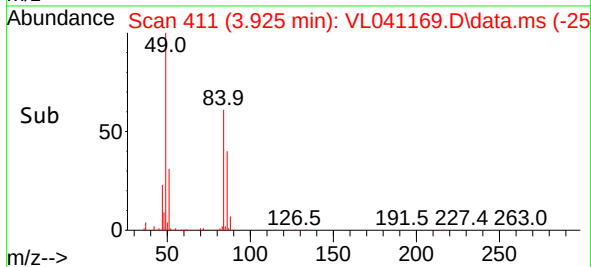
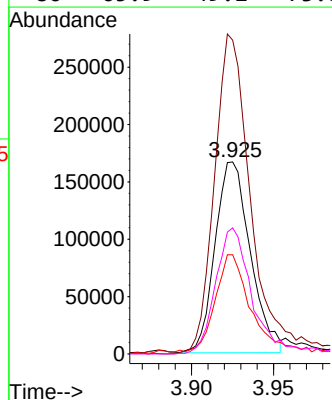
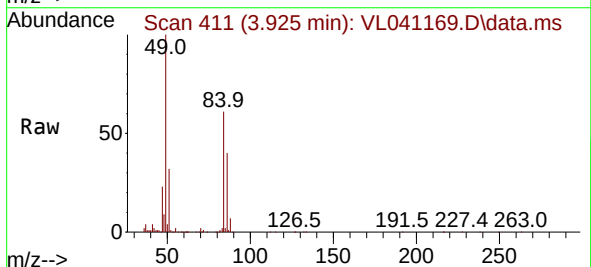
Manual Integrations
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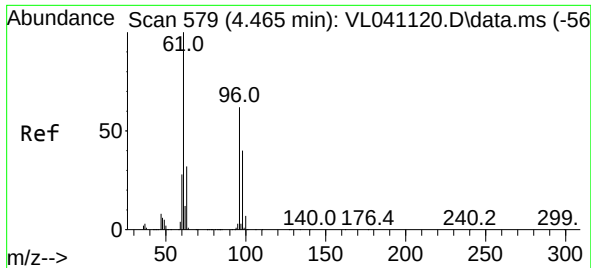
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#20
Methylene Chloride
Concen: 4.347 ppbv
RT: 3.925 min Scan# 411
Delta R.T. 0.000 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

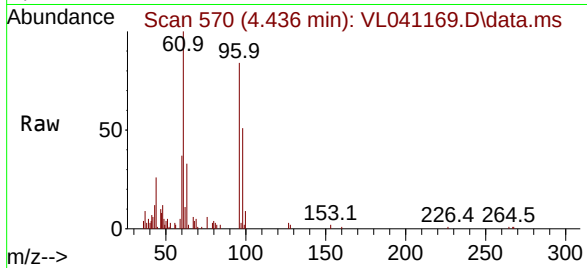
Tgt Ion: 84 Resp: 248825
Ion Ratio Lower Upper
84 100
49 164.1 120.7 181.1
51 50.0 36.6 54.8
86 65.9 49.2 73.8





#22
trans-1,2-Dichloroethene
Concen: 0.344 ppbv
RT: 4.436 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

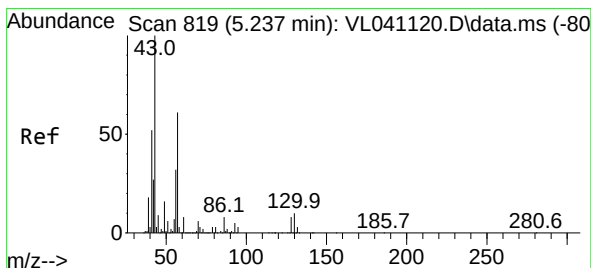
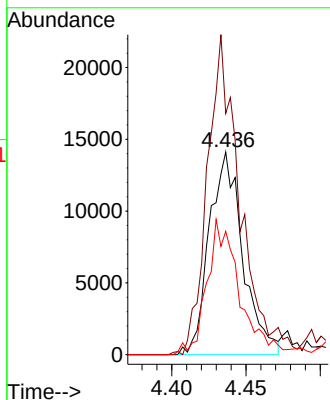
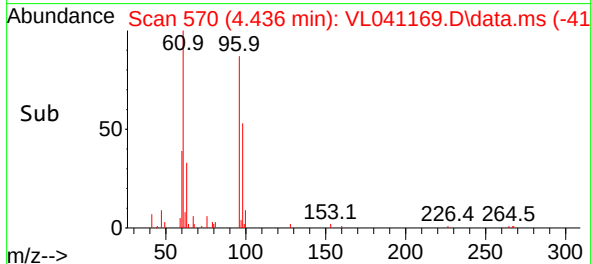
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 96 Resp: 22164
Ion Ratio Lower Upper
96 100
61 117.4 128.4 192.6
98 59.3 51.5 77.3

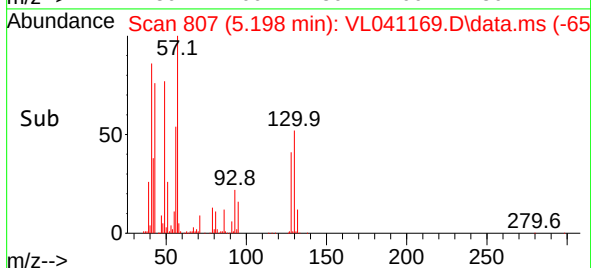
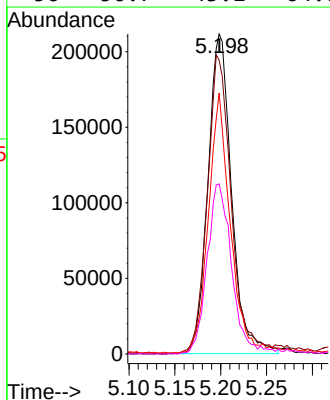
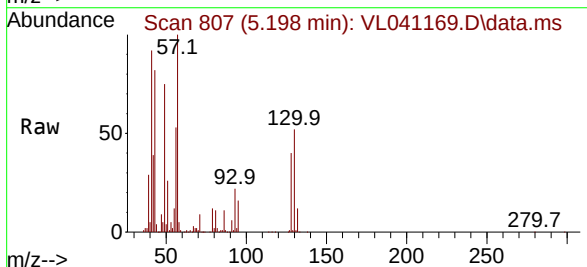
Manual Integrations
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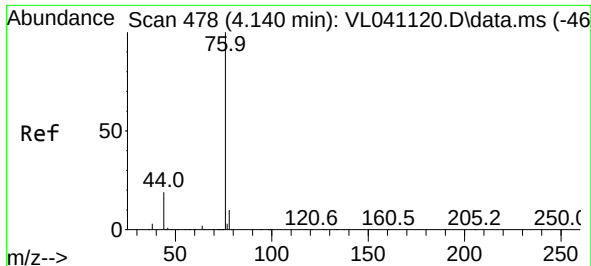
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#26
Hexane
Concen: 3.233 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.003 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

Tgt Ion: 57 Resp: 378015
Ion Ratio Lower Upper
57 100
41 98.1 73.8 110.8
43 75.6 186.2 279.2#
56 56.7 43.1 64.7





#27

Carbon Disulfide

Concen: 9.204 ppbv

RT: 4.115 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041169.D

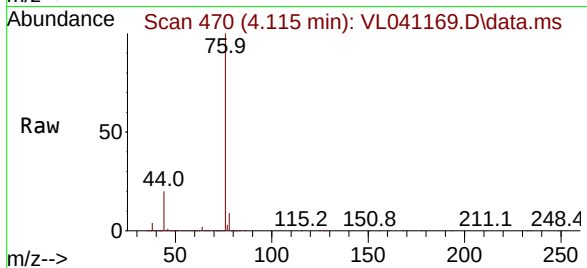
Acq: 25 Apr 2024 13:56

Instrument :

MSVOA_L

ClientSampleId :

SV1



Tgt Ion: 76 Resp: 131887

Ion Ratio Lower Upper

76 100

44 21.6 16.3 24.5

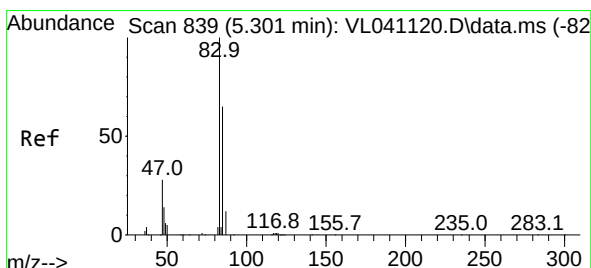
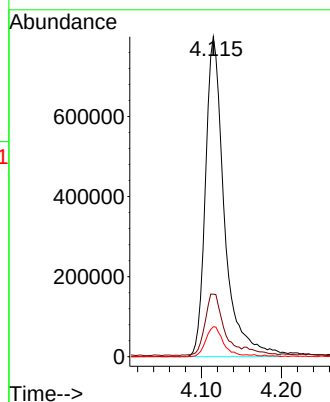
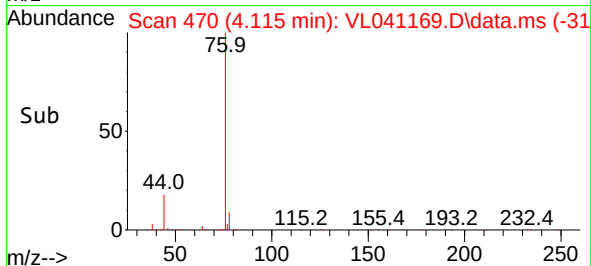
78 9.4 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/26/2024

Supervised By :Mahesh Dadoda 04/26/2024



#29

Chloroform

Concen: 0.333 ppbv

RT: 5.263 min Scan# 827

Delta R.T. 0.003 min

Lab File: VL041169.D

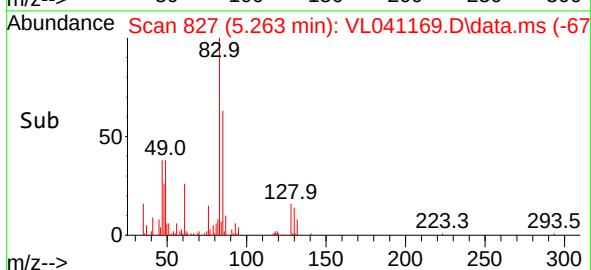
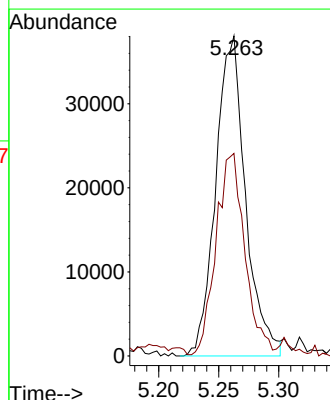
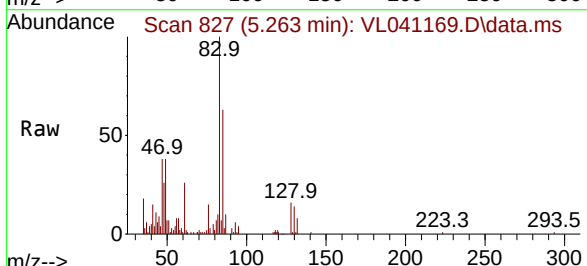
Acq: 25 Apr 2024 13:56

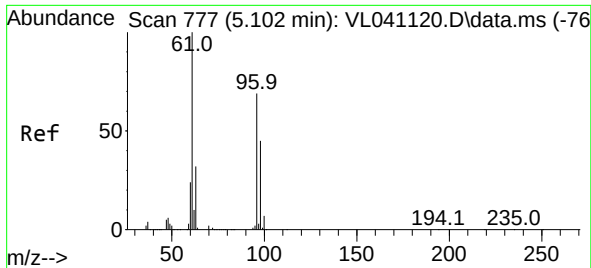
Tgt Ion: 83 Resp: 65715

Ion Ratio Lower Upper

83 100

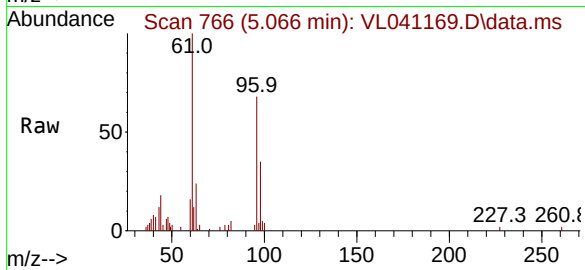
85 60.8 51.5 77.3





#31
 cis-1,2-Dichloroethene
 Concen: 0.188 ppbv m
 RT: 5.066 min Scan# 777
 Delta R.T. 0.003 min
 Lab File: VL041169.D
 Acq: 25 Apr 2024 13:56

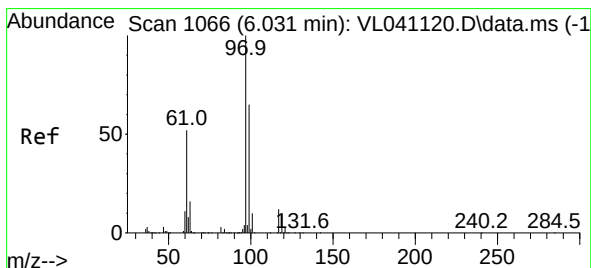
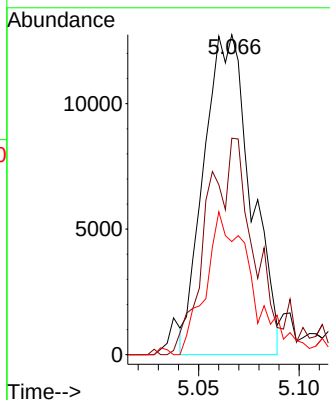
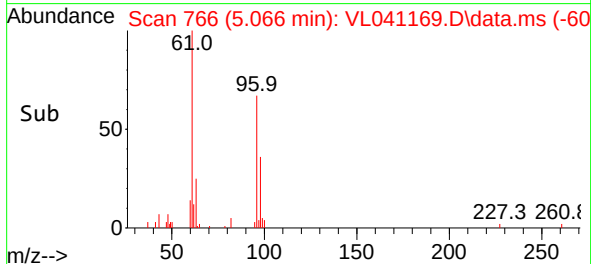
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:	61	Resp:	20770
Ion Ratio	100	Lower	Upper
96	67.6	54.9	82.3
98	35.4	35.9	53.9

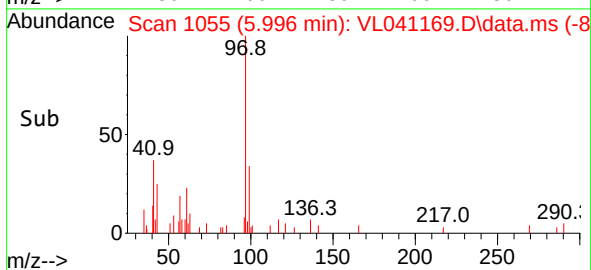
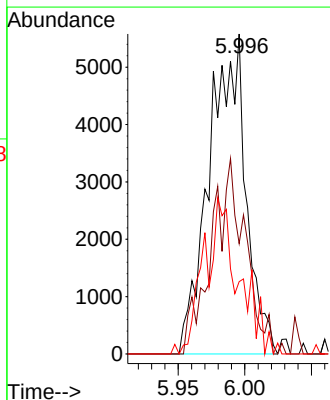
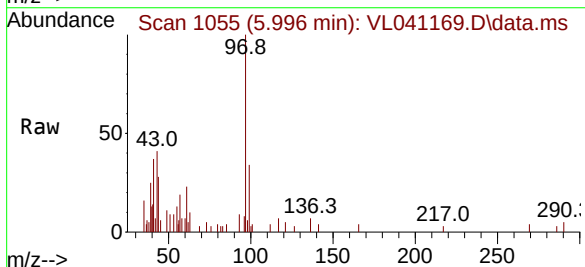
Manual Integrations
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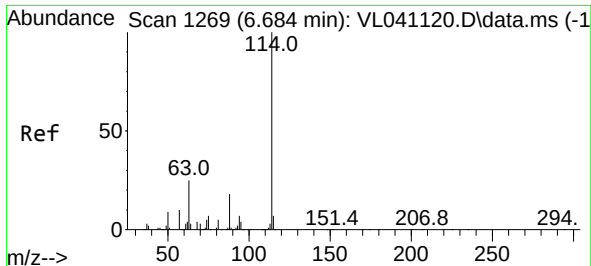
Reviewed By :Semsettin Yesilyurt 04/26/2024
 Supervised By :Mahesh Dadoda 04/26/2024



#32
 1,1,1-Trichloroethane
 Concen: 0.059 ppbv m
 RT: 5.996 min Scan# 1055
 Delta R.T. 0.010 min
 Lab File: VL041169.D
 Acq: 25 Apr 2024 13:56

Tgt Ion:	97	Resp:	10665
Ion Ratio	100	Lower	Upper
99	0.0	52.0	78.0
61	46.3	40.5	60.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.636 min Scan# 114

Delta R.T. 0.000 min

Lab File: VL041169.D

Acq: 25 Apr 2024 13:56

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:114 Resp: 342331

Ion Ratio Lower Upper

114 100

63 24.4 20.9 31.3

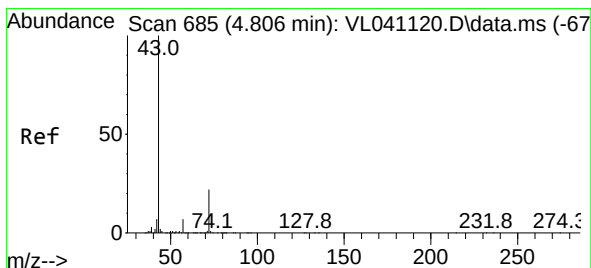
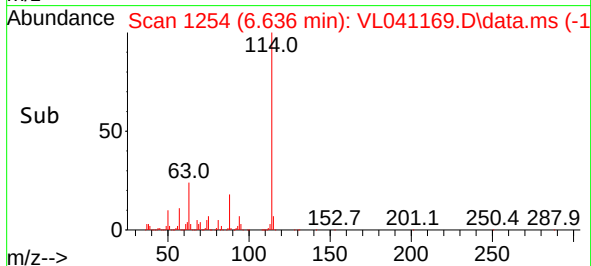
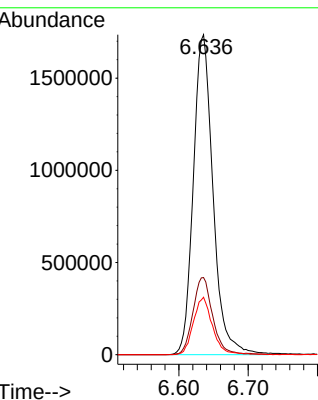
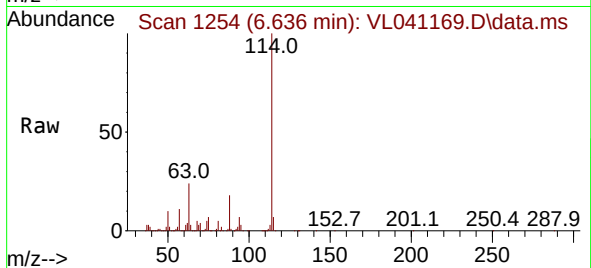
88 17.5 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/26/2024

Supervised By :Mahesh Dadoda 04/26/2024



#34

2-Butanone

Concen: 4.323 ppbv

RT: 4.774 min Scan# 675

Delta R.T. 0.003 min

Lab File: VL041169.D

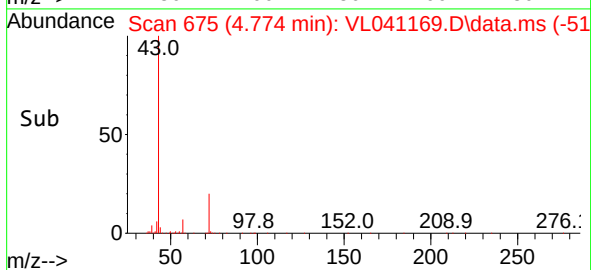
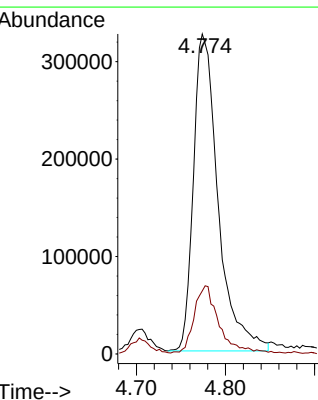
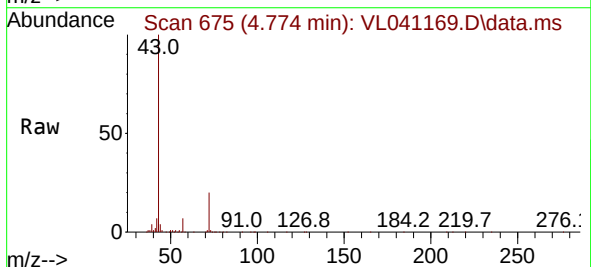
Acq: 25 Apr 2024 13:56

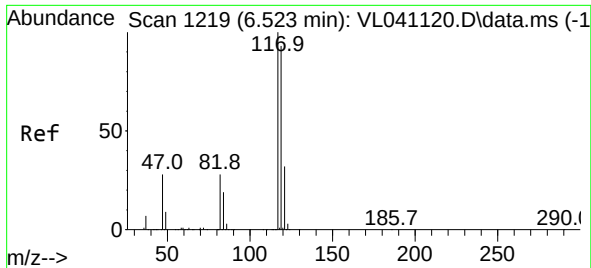
Tgt Ion: 43 Resp: 626198

Ion Ratio Lower Upper

43 100

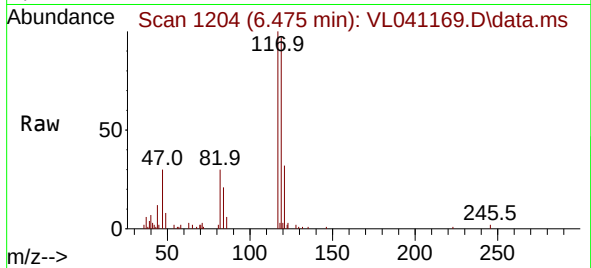
72 22.0 17.6 26.4





#35
Carbon Tetrachloride
Concen: 0.235 ppbv
RT: 6.475 min Scan# 1165
Delta R.T. 0.000 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

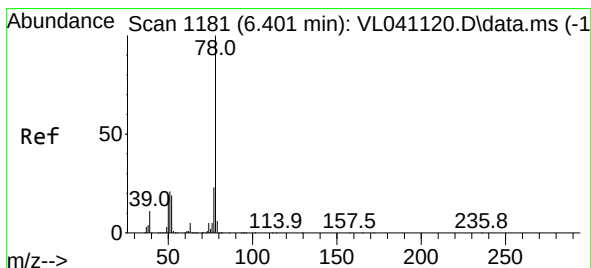
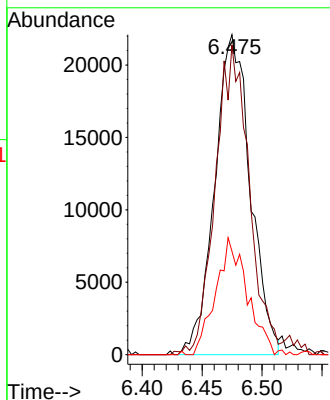
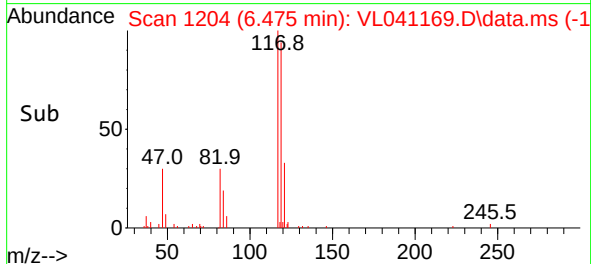
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 117 Resp: 45715
Ion Ratio Lower Upper
117 100
119 95.8 74.2 111.4
121 32.3 25.4 38.2

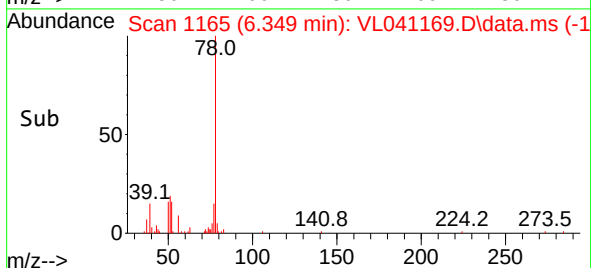
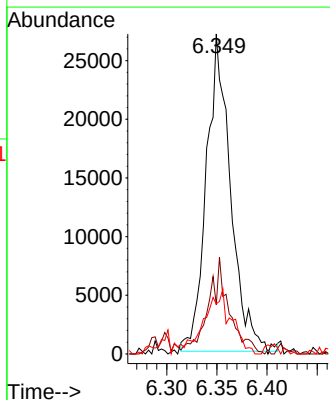
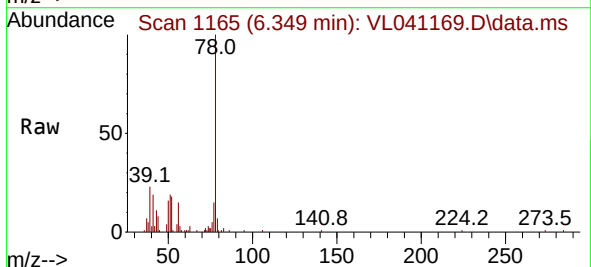
Manual Integrations
APPROVED

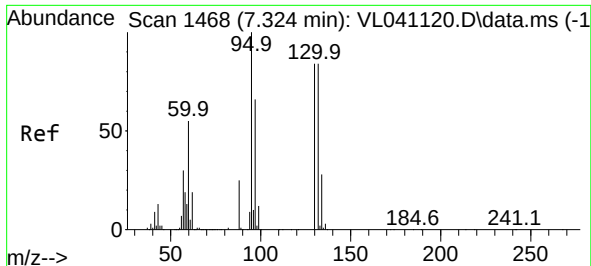
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#36
Benzene
Concen: 0.181 ppbv m
RT: 6.349 min Scan# 1165
Delta R.T. -0.003 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

Tgt Ion: 78 Resp: 45550
Ion Ratio Lower Upper
78 100
77 15.3 18.2 27.4#
50 15.7 15.4 23.2





#38

Trichloroethene

Concen: 1.490 ppbv m

RT: 7.272 min Scan# 1452

Delta R.T. 0.000 min

Lab File: VL041169.D

Acq: 25 Apr 2024 13:56

Instrument :

MSVOA_L

ClientSampleId :

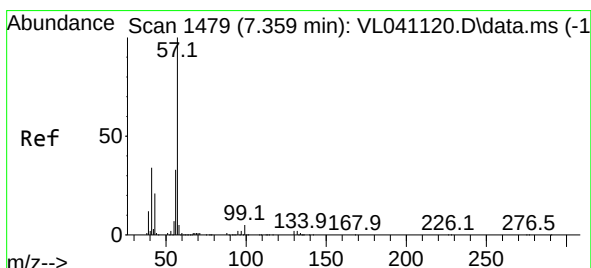
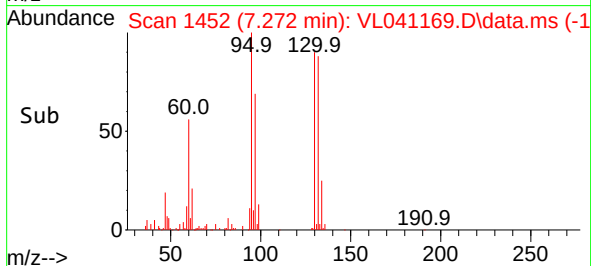
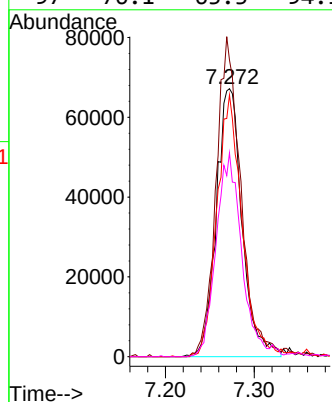
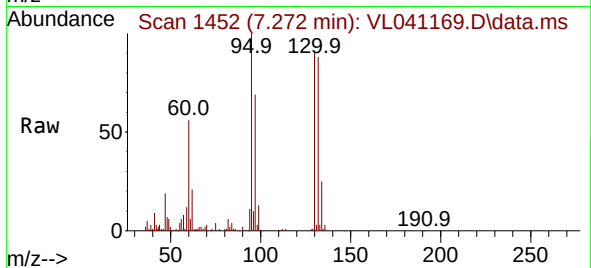
SV1

Tgt Ion:	130	Resp:	13535
Ion Ratio	Lower	Upper	
130	100		
95	110.6	95.4	143.0
132	97.7	80.0	120.0
97	76.1	63.3	94.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#44

2,2,4-Trimethylpentane

Concen: 0.221 ppbv

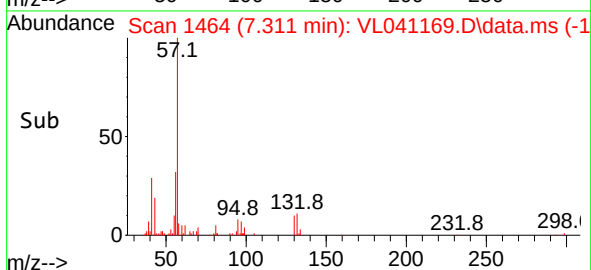
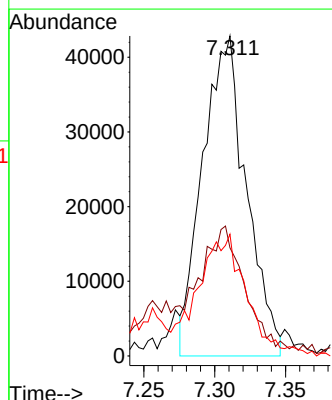
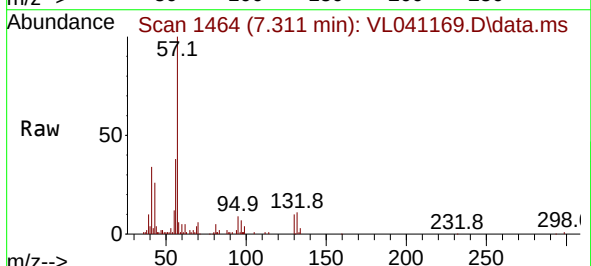
RT: 7.311 min Scan# 1464

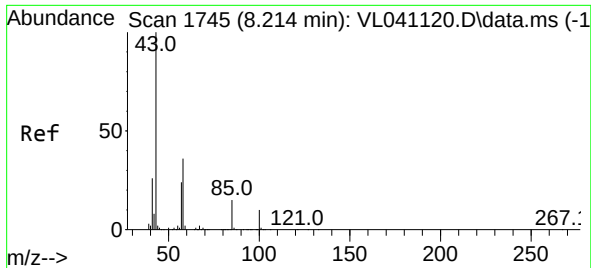
Delta R.T. 0.007 min

Lab File: VL041169.D

Acq: 25 Apr 2024 13:56

Tgt Ion:	57	Resp:	91904
Ion Ratio	Lower	Upper	
57	100		
41	62.6	28.2	42.2#
56	43.3	25.2	37.8#





#50

4-Methyl-2-Pentanone

Concen: 0.099 ppbv

RT: 8.169 min Scan# 1731

Delta R.T. 0.010 min

Lab File: VL041169.D

Acq: 25 Apr 2024 13:56

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 43 Resp: 2524

Ion Ratio Lower Upper

43 100

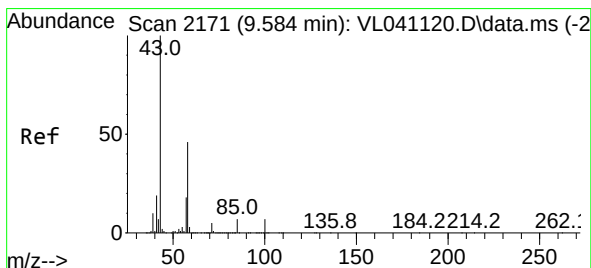
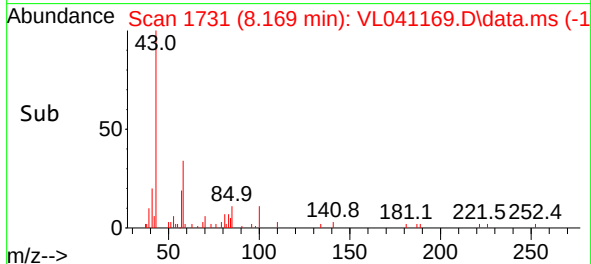
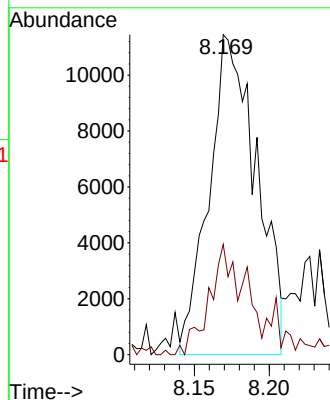
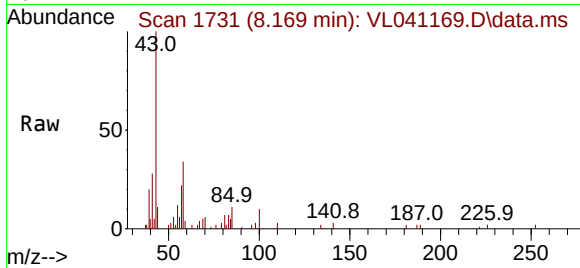
58 32.2 27.7 41.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/26/2024

Supervised By :Mahesh Dadoda 04/26/2024



#51

2-Hexanone

Concen: 1.498 ppbv

RT: 9.536 min Scan# 2156

Delta R.T. 0.010 min

Lab File: VL041169.D

Acq: 25 Apr 2024 13:56

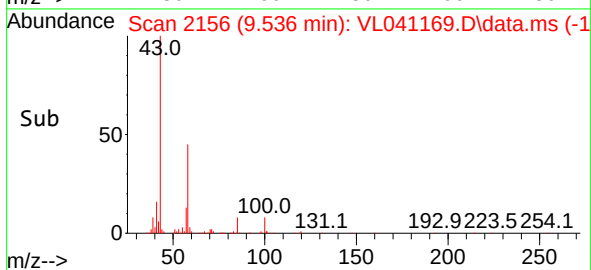
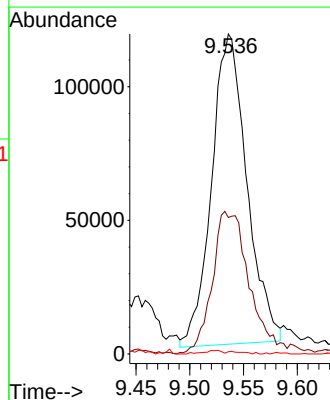
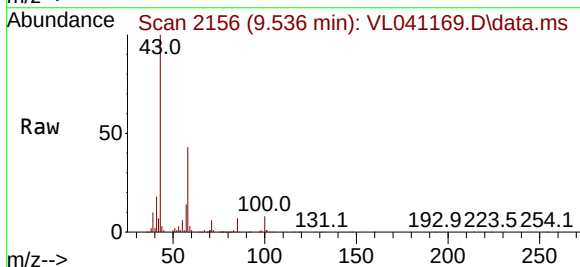
Tgt Ion: 43 Resp: 264798

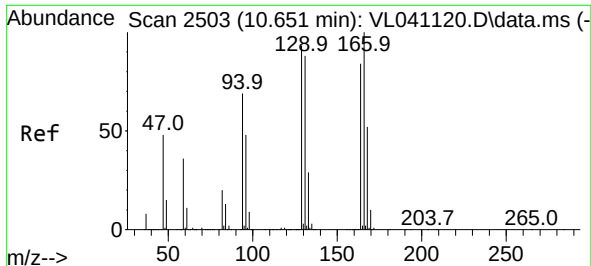
Ion Ratio Lower Upper

43 100

58 47.9 37.3 55.9

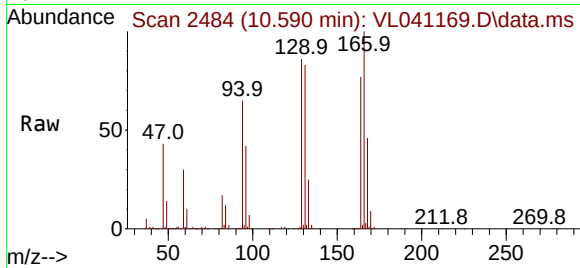
98 0.9 0.3 0.5





#52
Tetrachloroethene
Concen: 8.672 ppbv
RT: 10.590 min Scan# 2484
Delta R.T. 0.000 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

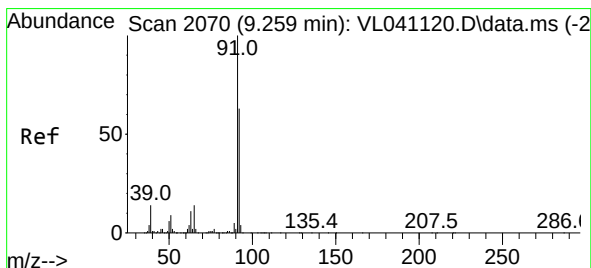
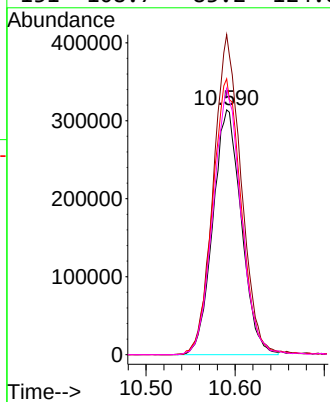
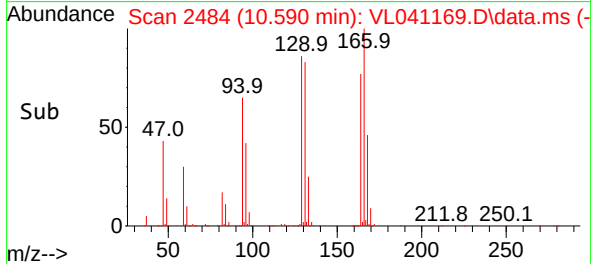
Instrument :
MSVOA_L
ClientSampleId :
SV1



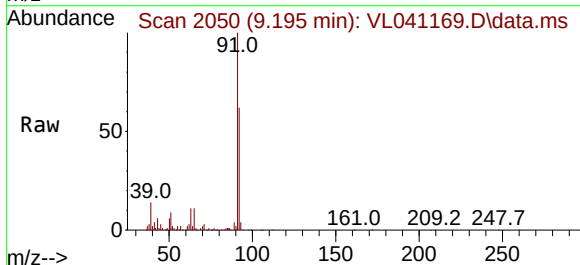
Tgt Ion:164 Resp: 69560
Ion Ratio Lower Upper
164 100
166 130.5 95.0 142.6
129 112.5 88.7 133.1
131 108.7 83.2 124.8

Manual Integrations
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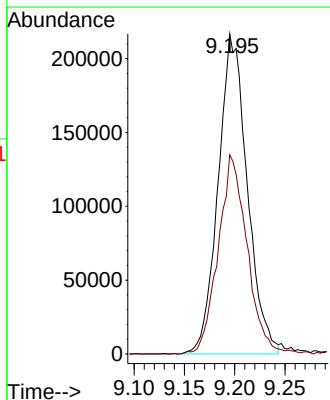
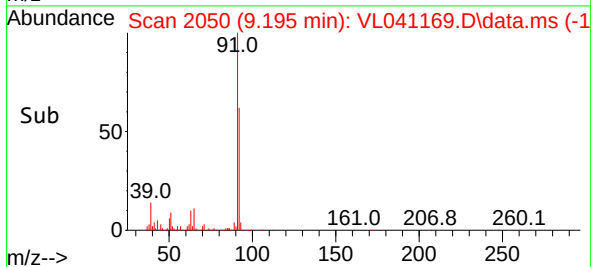
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024

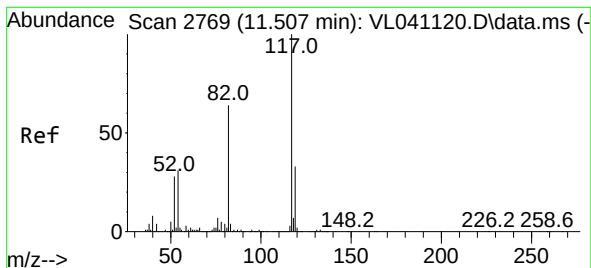


#53
Toluene
Concen: 1.645 ppbv
RT: 9.195 min Scan# 2050
Delta R.T. -0.003 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56



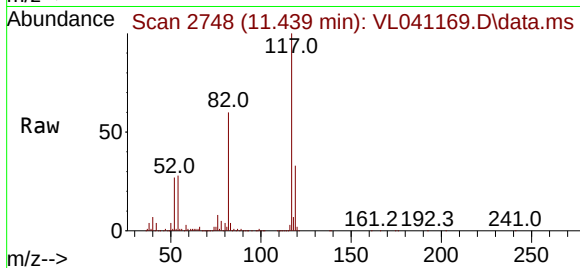
Tgt Ion: 91 Resp: 435426
Ion Ratio Lower Upper
91 100
92 62.1 49.0 73.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

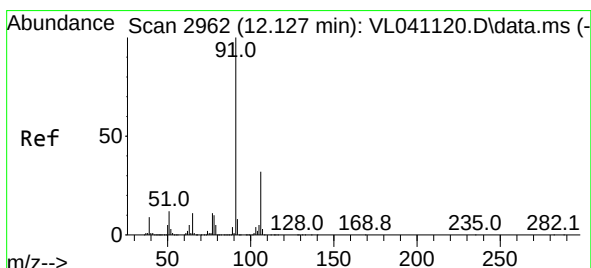
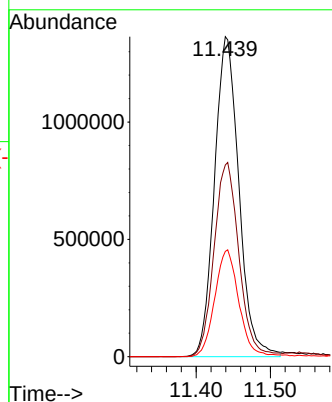
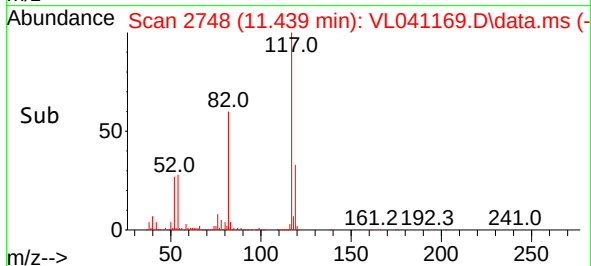
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:117 Resp: 3117362
Ion Ratio Lower Upper
117 100
82 64.3 51.0 76.6
119 33.7 25.2 37.8

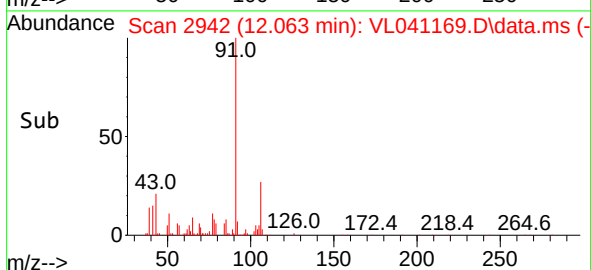
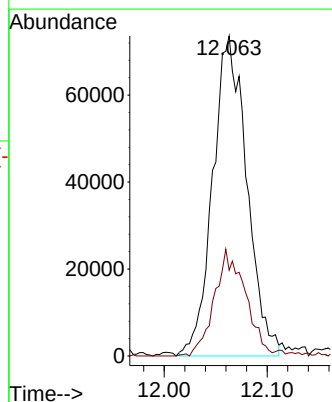
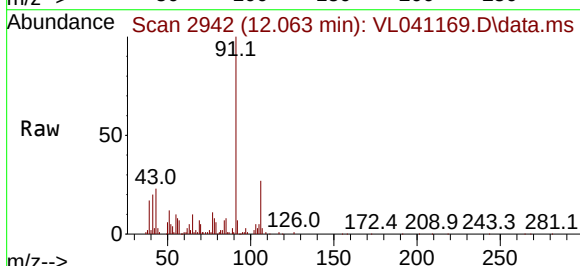
Manual Integrations
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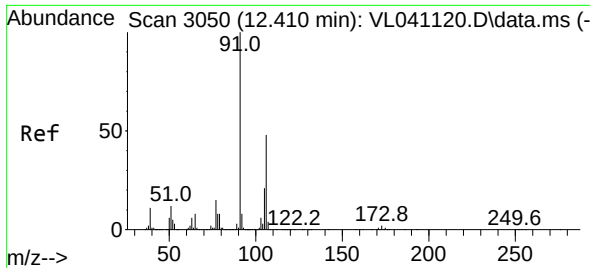
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#58
Ethyl Benzene
Concen: 0.496 ppbv m
RT: 12.063 min Scan# 2942
Delta R.T. 0.000 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

Tgt Ion: 91 Resp: 169339
Ion Ratio Lower Upper
91 100
106 26.8 25.6 38.4





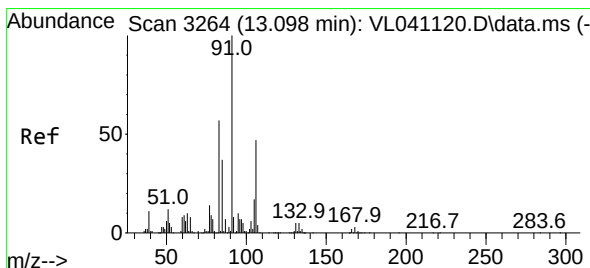
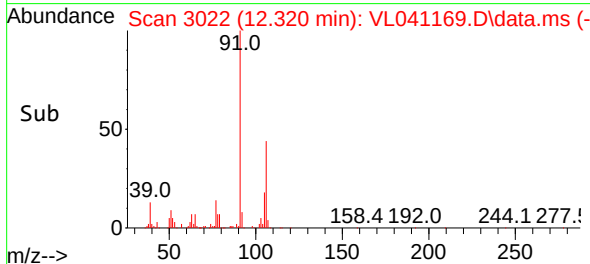
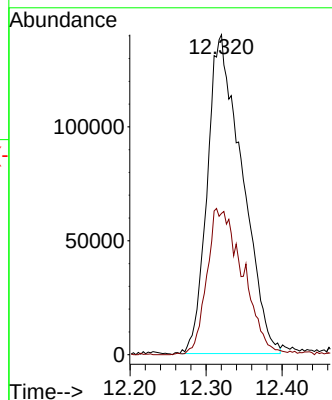
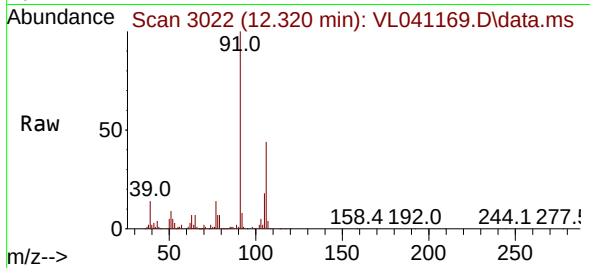
#59
m/p-Xylene
Concen: 1.445 ppbv
RT: 12.320 min Scan# 3050
Delta R.T. -0.029 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 44544
Ion Ratio Lower Upper
91 100
106 47.8 35.4 53.2

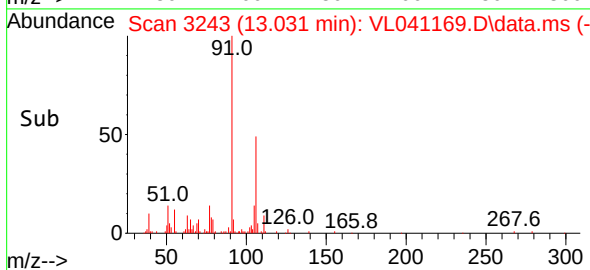
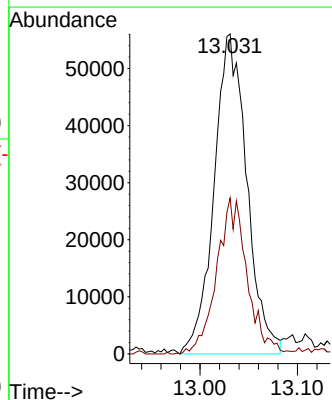
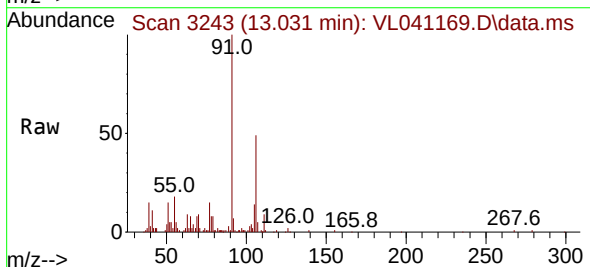
Manual Integrations
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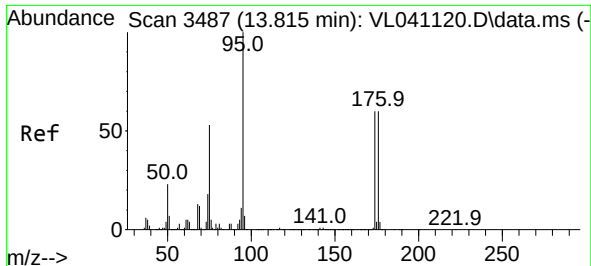
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#60
o-Xylene
Concen: 0.449 ppbv
RT: 13.031 min Scan# 3243
Delta R.T. -0.003 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

Tgt Ion: 91 Resp: 130995
Ion Ratio Lower Upper
91 100
106 45.4 22.9 68.5





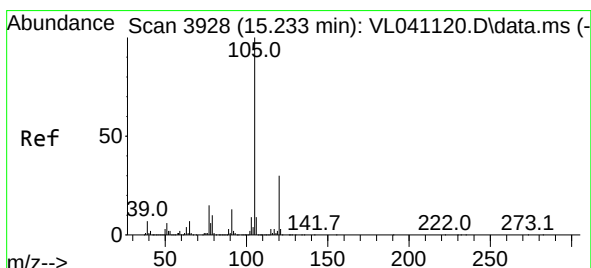
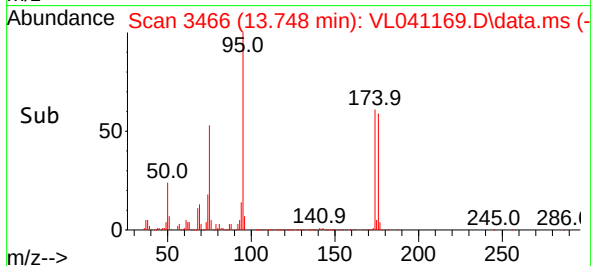
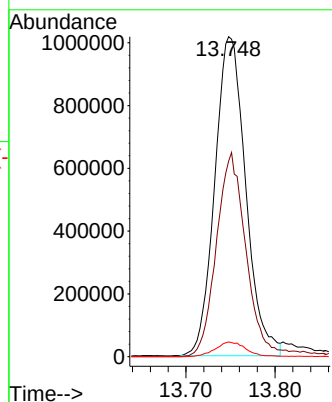
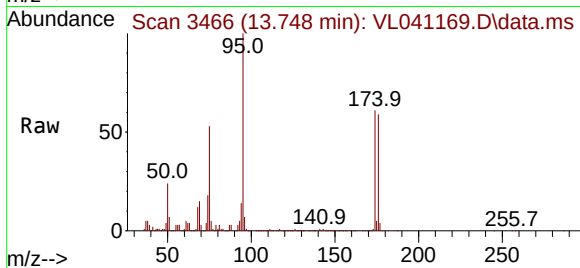
#68
1-Bromo-4-Fluorobenzene
Concen: 9.785 ppbv
RT: 13.748 min Scan# 3487
Delta R.T. 0.000 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 245291
Ion Ratio Lower Upper
95 100
174 63.7 49.3 73.9
175 4.7 3.6 5.4

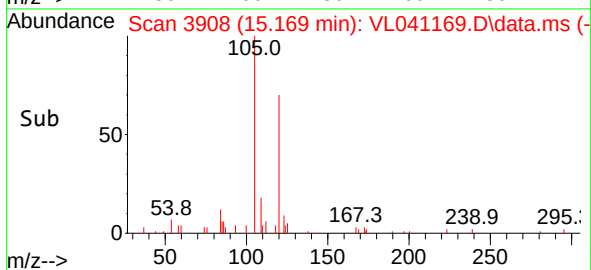
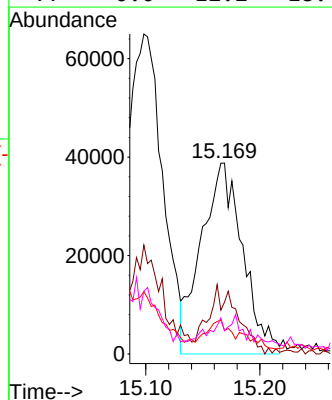
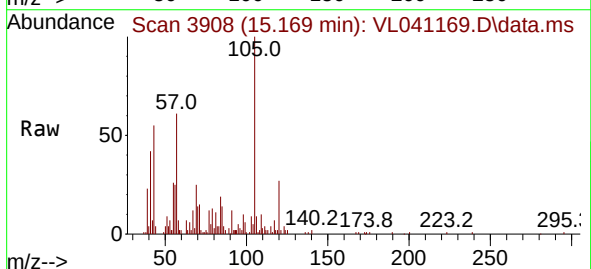
Manual Integrations
APPROVED

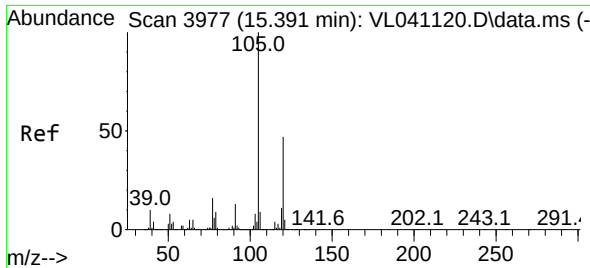
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#72
4-Ethyltoluene
Concen: 0.300 ppbv m
RT: 15.169 min Scan# 3908
Delta R.T. 0.003 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

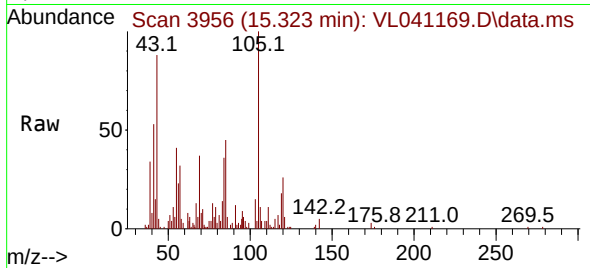
Tgt Ion:105 Resp: 97937
Ion Ratio Lower Upper
105 100
120 26.8 24.2 36.2
91 11.0 11.2 16.8#
77 0.0 12.2 18.4#





#73
1,3,5-Trimethylbenzene
Concen: 0.144 ppbv m
RT: 15.323 min Scan# 3977
Delta R.T. -0.003 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56

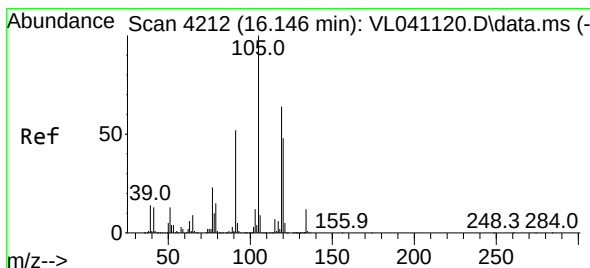
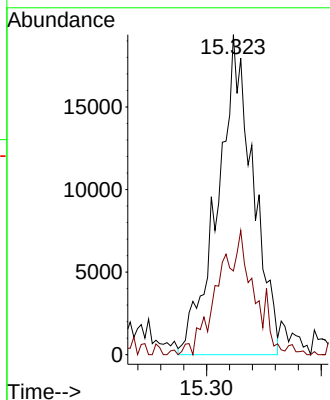
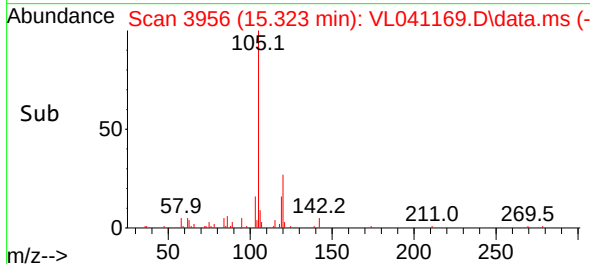
Instrument :
MSVOA_L
ClientSampleId :
SV1



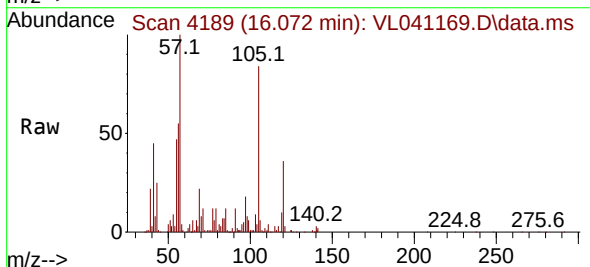
Tgt Ion:105 Resp: 4154
Ion Ratio Lower Upper
105 100
120 26.2 37.8 56.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#74
1,2,4-Trimethylbenzene
Concen: 0.468 ppbv m
RT: 16.072 min Scan# 4189
Delta R.T. -0.009 min
Lab File: VL041169.D
Acq: 25 Apr 2024 13:56



Tgt Ion:105 Resp: 154132
Ion Ratio Lower Upper
105 100
120 43.5 38.9 58.3
91 14.1 43.0 64.6#
77 14.7 18.6 28.0#

