

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011623\
 Data File : VL040101.D
 Acq On : 16 Jan 2023 17:09
 Operator : SY/MD
 Sample : 01143-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BH1N3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/17/2023
 Supervised By :Mahesh Dadoda 01/17/2023

Quant Time: Jan 16 17:47:33 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M

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

QLast Update : Mon Jan 16 14:40:47 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	1109524	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2835072	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2427930	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1934255	9.586	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.719	85	256813	1.320	ppbv	98
3) Chlorodifluoromethane	2.664	51	436011	3.276	ppbv	95
4) Chloromethane	2.806	50	44440	0.540	ppbv	94
9) Propene	2.697	41	39661	0.717	ppbv #	78
11) Trichlorofluoromethane	3.558	101	858951	4.424	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.066	101	27321	0.187	ppbv	93
13) Ethanol	3.237	45	158726	31.189	ppbv	94
15) Acetone	3.472	43	318885	2.396	ppbv	90
18) 1,1-Dichloroethene	3.877	96	78261	1.234	ppbv	92
20) Methylene Chloride	3.928	84	228289	3.889	ppbv	94
22) trans-1,2-Dichloroethene	4.446	96	19153	0.296	ppbv	97
24) 1,1-Dichloroethane	4.565	63	45301	0.347	ppbv #	97
26) Hexane	5.214	57	224807	2.191	ppbv #	40
28) Methyl tert-Butyl Ether	4.594	73	135068	1.170	ppbv	100
29) Chloroform	5.275	83	64906	0.396	ppbv	99
31) cis-1,2-Dichloroethene	5.079	61	998453	10.053	ppbv	98
32) 1,1,1-Trichloroethane	6.005	97	25238m	0.151	ppbv	
35) Carbon Tetrachloride	6.497	117	34107	0.213	ppbv	97
36) Benzene	6.375	78	50693	0.242	ppbv #	93
38) Trichloroethene	7.301	130	4772386	40.080	ppbv	96
52) Tetrachloroethene	10.632	164	2750500	40.075	ppbv	98
53) Toluene	9.237	91	72646	0.325	ppbv	98

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

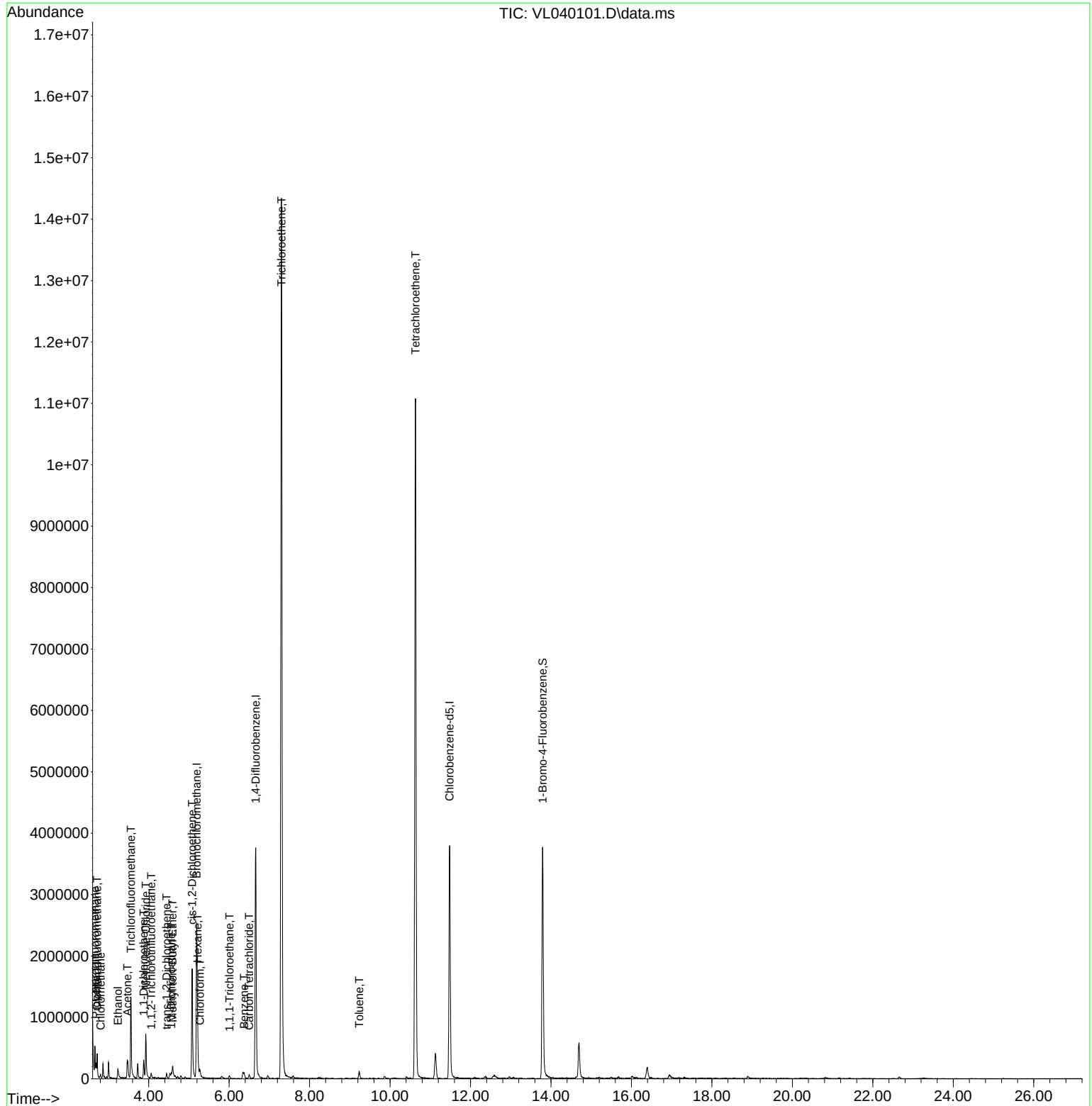
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011623\
Data File : VL040101.D
Acq On : 16 Jan 2023 17:09
Operator : SY/MD
Sample : 01143-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

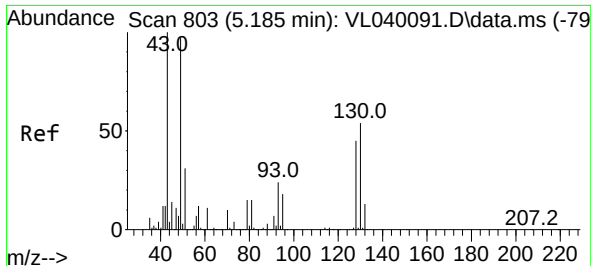
Instrument :
MSVOA_L
ClientSampleId :
BH1N3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/17/2023
Supervised By :Mahesh Dadoda 01/17/2023

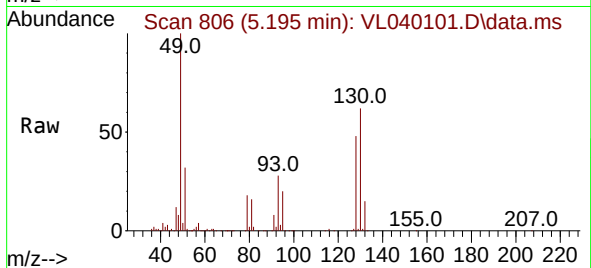
Quant Time: Jan 16 17:47:33 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Jan 16 14:40:47 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.010 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

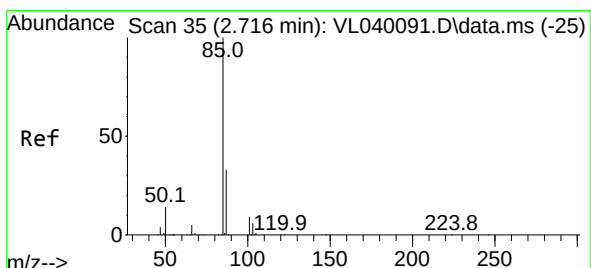
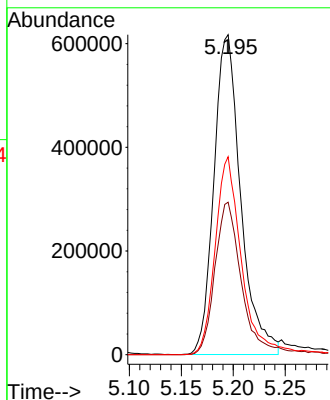
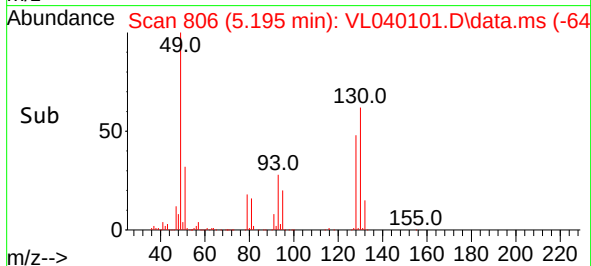
Instrument :
MSVOA_L
ClientSampleId :
BH1N3



Tgt Ion: 49 Resp: 1109524
Ion Ratio Lower Upper
49 100
128 48.5 23.6 71.0
130 62.1 29.8 89.3

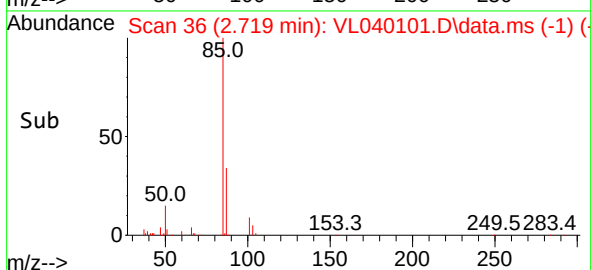
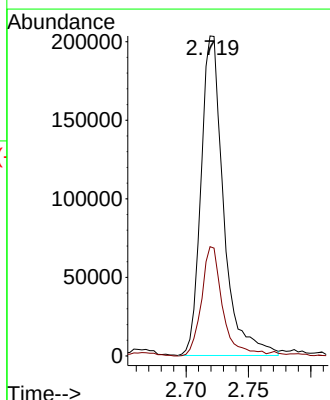
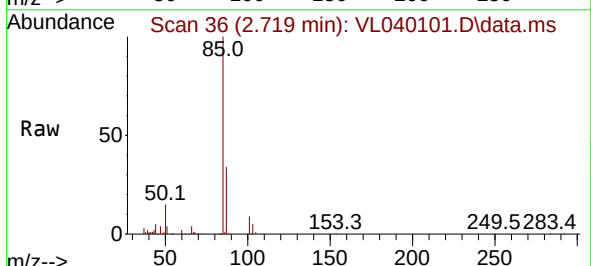
Manual Integrations
APPROVED

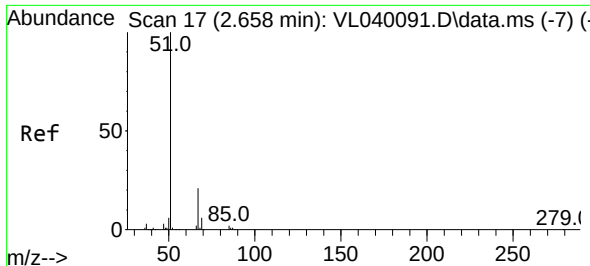
Reviewed By :Semsettin Yesilyurt 01/17/2023
Supervised By :Mahesh Dadoda 01/17/2023



#2
Dichlorodifluoromethane
Concen: 1.320 ppbv
RT: 2.719 min Scan# 36
Delta R.T. 0.003 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

Tgt Ion: 85 Resp: 256813
Ion Ratio Lower Upper
85 100
87 34.2 26.5 39.7





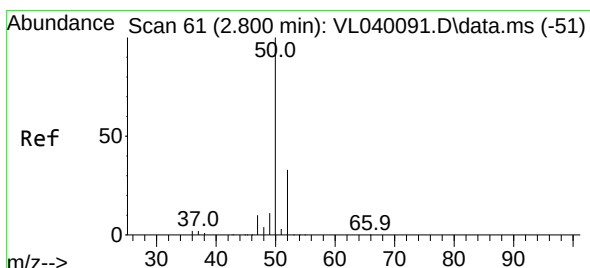
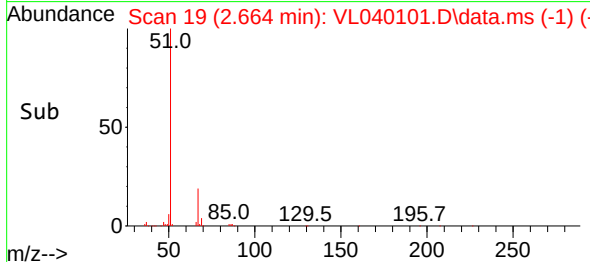
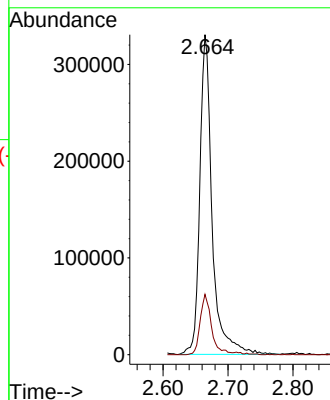
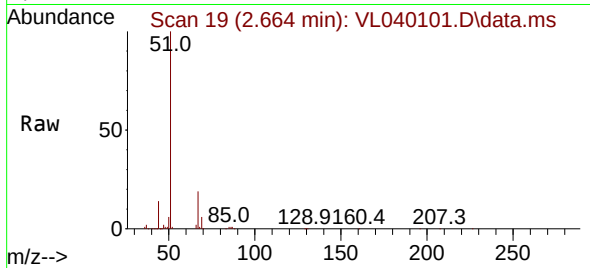
#3
Chlorodifluoromethane
Concen: 3.276 ppbv
RT: 2.664 min Scan# 19
Delta R.T. 0.006 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

Instrument :
MSVOA_L
ClientSampleId :
BH1N3

Tgt Ion: 51 Resp: 43601
Ion Ratio Lower Upper
51 100
67 18.1 16.4 24.6

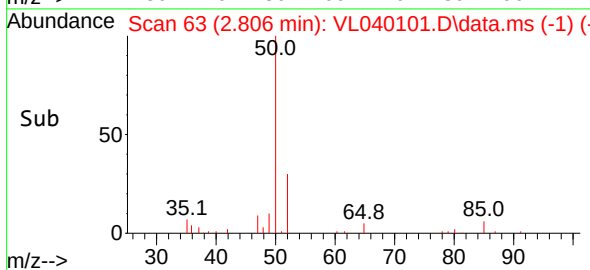
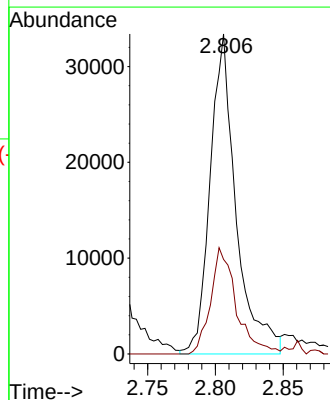
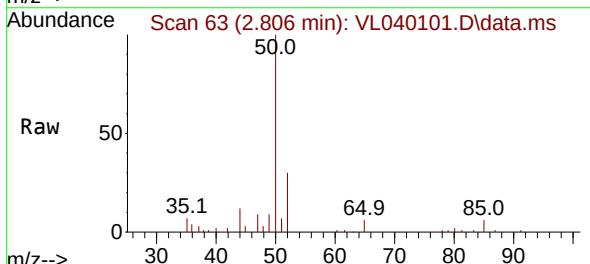
Manual Integrations
APPROVED

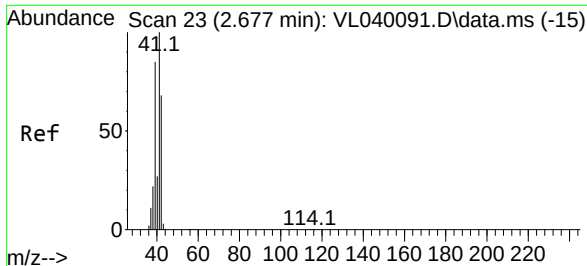
Reviewed By :Semsettin Yesilyurt 01/17/2023
Supervised By :Mahesh Dadoda 01/17/2023



#4
Chloromethane
Concen: 0.540 ppbv
RT: 2.806 min Scan# 63
Delta R.T. 0.006 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

Tgt Ion: 50 Resp: 44440
Ion Ratio Lower Upper
50 100
52 29.9 26.5 39.7





#9

Propene

Concen: 0.717 ppbv

RT: 2.697 min Scan# 29

Delta R.T. 0.019 min

Lab File: VL040101.D

Acq: 16 Jan 2023 17:09

Instrument :

MSVOA_L

ClientSampleId :

BH1N3

Tgt Ion: 41 Resp: 3966

Ion Ratio Lower Upper

41 100

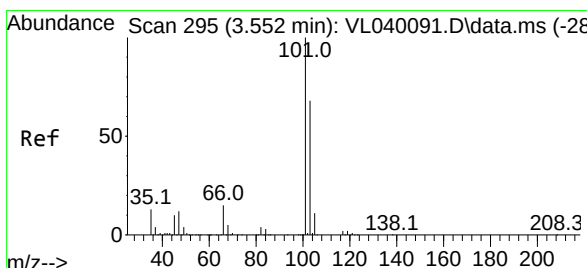
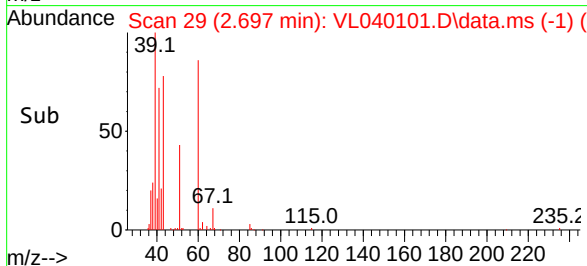
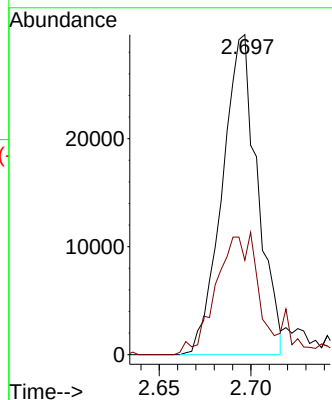
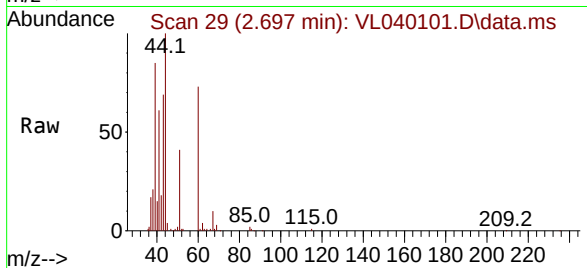
42 51.6 55.6 83.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/17/2023

Supervised By :Mahesh Dadoda 01/17/2023



#11

Trichlorofluoromethane

Concen: 4.424 ppbv

RT: 3.558 min Scan# 297

Delta R.T. 0.006 min

Lab File: VL040101.D

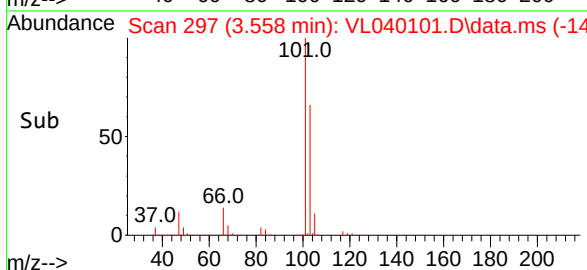
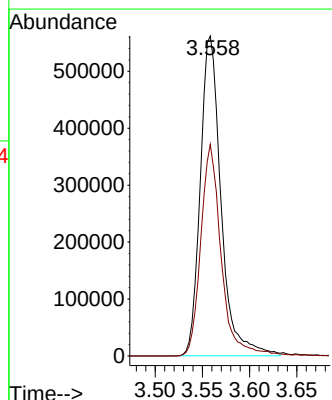
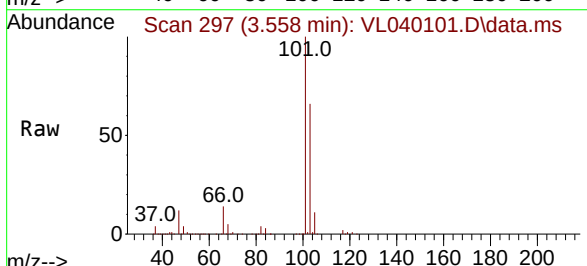
Acq: 16 Jan 2023 17:09

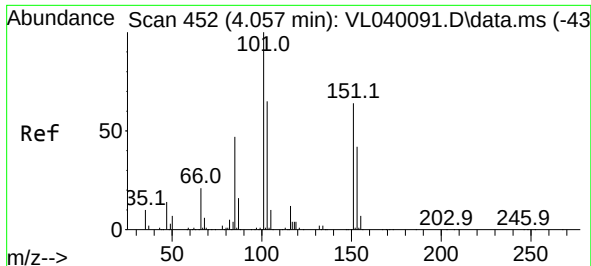
Tgt Ion:101 Resp: 858951

Ion Ratio Lower Upper

101 100

103 66.1 54.0 81.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.187 ppbv

RT: 4.066 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL040101.D

Acq: 16 Jan 2023 17:09

Instrument :

MSVOA_L

ClientSampleId :

BH1N3

Tgt Ion:101 Resp: 2732

Ion Ratio Lower Upper

101 100

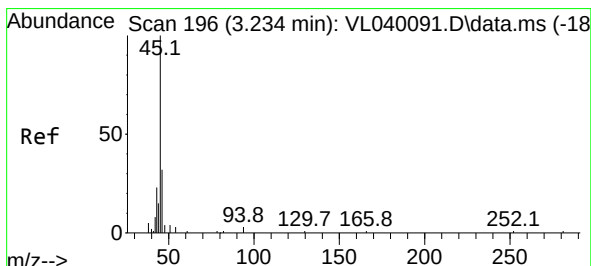
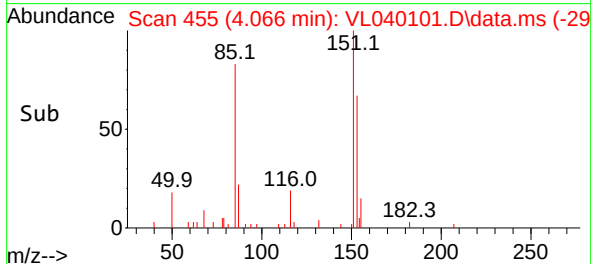
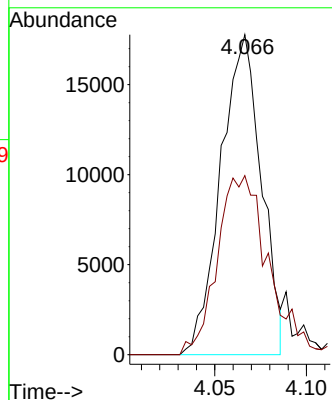
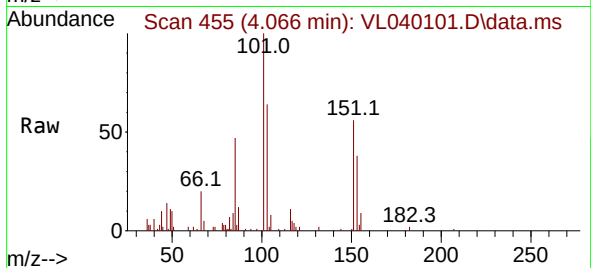
151 72.1 53.2 79.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/17/2023

Supervised By :Mahesh Dadoda 01/17/2023



#13

Ethanol

Concen: 31.189 ppbv

RT: 3.237 min Scan# 197

Delta R.T. 0.003 min

Lab File: VL040101.D

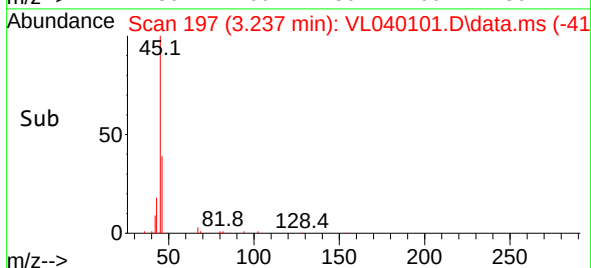
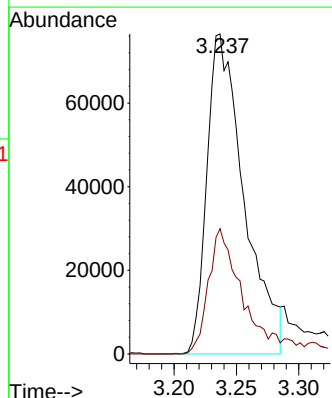
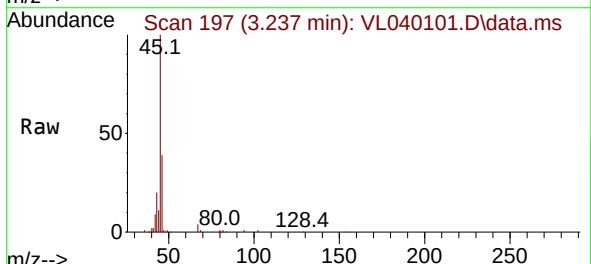
Acq: 16 Jan 2023 17:09

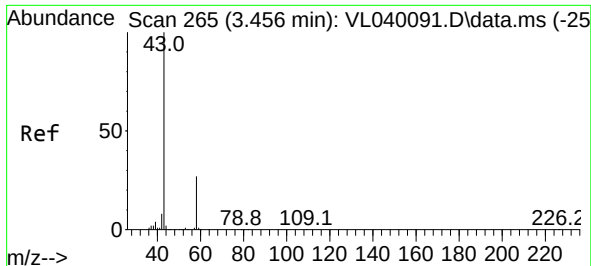
Tgt Ion: 45 Resp: 158726

Ion Ratio Lower Upper

45 100

46 40.4 14.8 59.2





#15

Acetone

Concen: 2.396 ppbv

RT: 3.472 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL040101.D

Acq: 16 Jan 2023 17:09

Instrument :

MSVOA_L

ClientSampleId :

BH1N3

Tgt Ion: 43 Resp: 31888

Ion Ratio Lower Upper

43 100

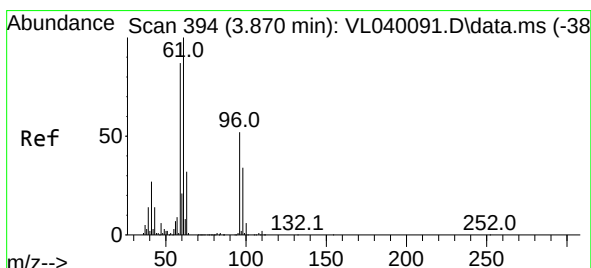
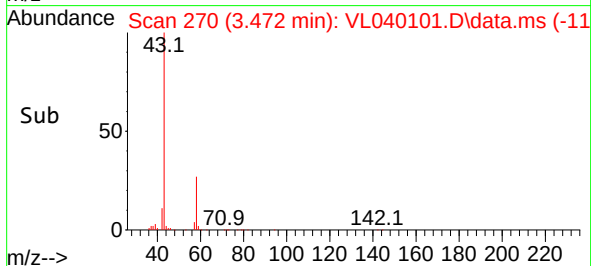
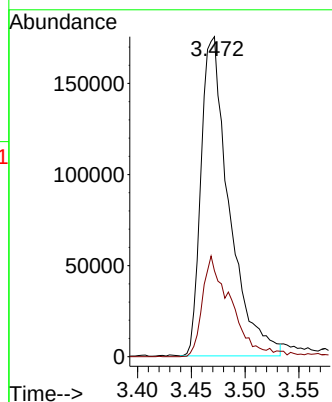
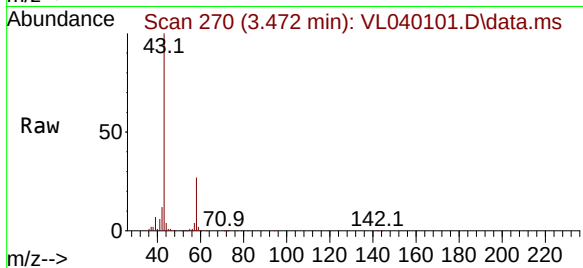
58 32.6 21.8 32.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/17/2023

Supervised By :Mahesh Dadoda 01/17/2023



#18

1,1-Dichloroethene

Concen: 1.234 ppbv

RT: 3.877 min Scan# 396

Delta R.T. 0.006 min

Lab File: VL040101.D

Acq: 16 Jan 2023 17:09

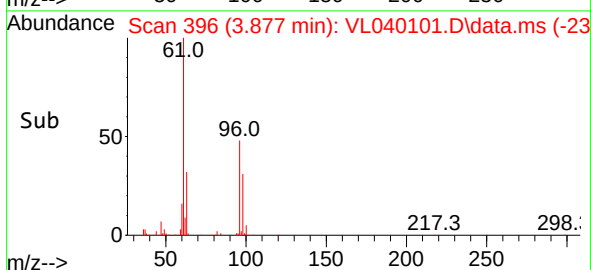
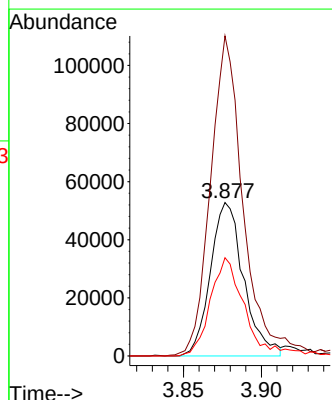
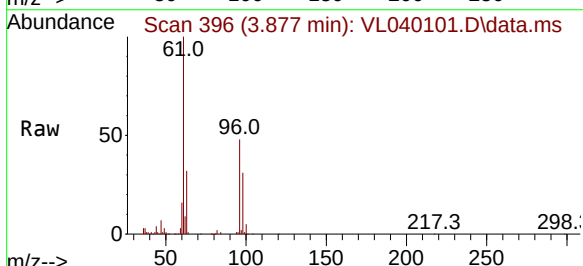
Tgt Ion: 96 Resp: 78261

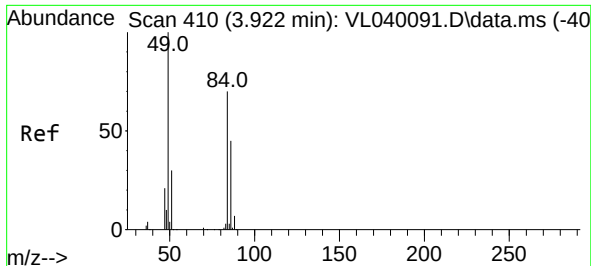
Ion Ratio Lower Upper

96 100

61 206.4 153.0 229.4

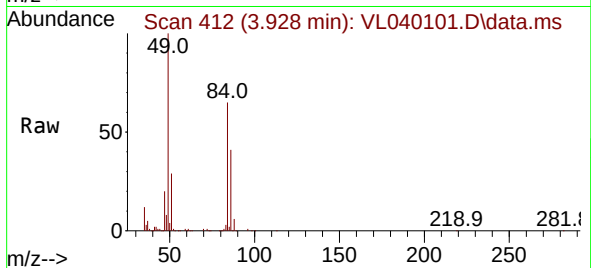
98 63.7 52.7 79.1





#20
Methylene Chloride
Concen: 3.889 ppbv
RT: 3.928 min Scan# 410
Delta R.T. 0.006 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

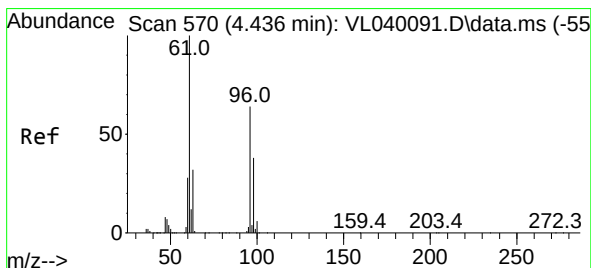
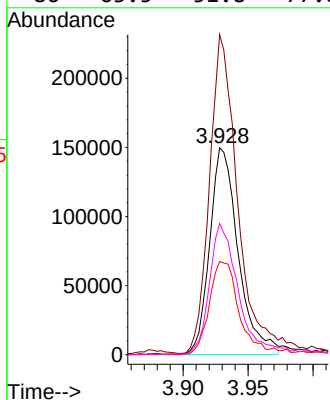
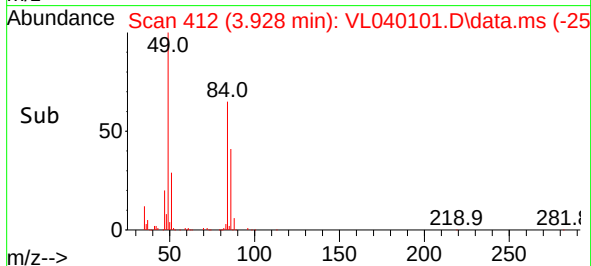
Instrument :
MSVOA_L
ClientSampleId :
BH1N3



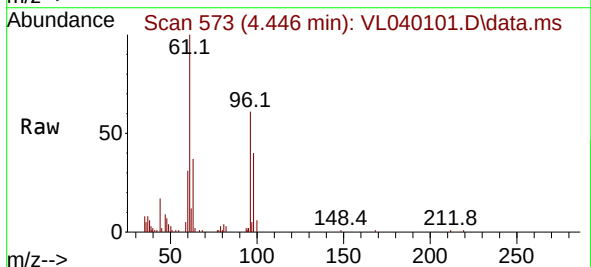
Tgt Ion: 84 Resp: 228289
Ion Ratio Lower Upper
84 100
49 154.3 114.6 171.8
51 44.7 34.3 51.5
86 63.5 51.8 77.8

Manual Integrations
APPROVED

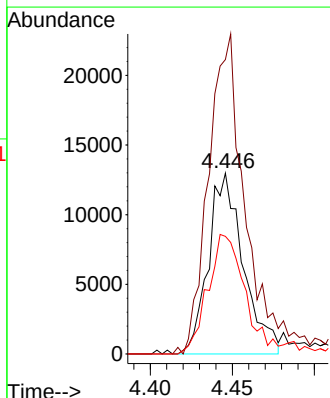
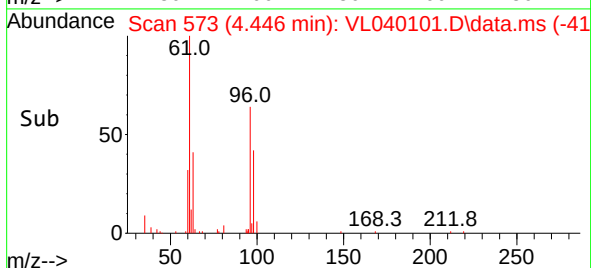
Reviewed By :Semsettin Yesilyurt 01/17/2023
Supervised By :Mahesh Dadoda 01/17/2023

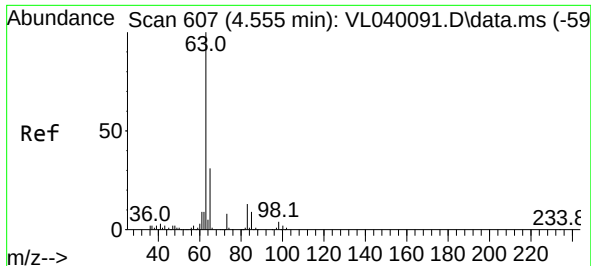


#22
trans-1,2-Dichloroethene
Concen: 0.296 ppbv
RT: 4.446 min Scan# 573
Delta R.T. 0.010 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09



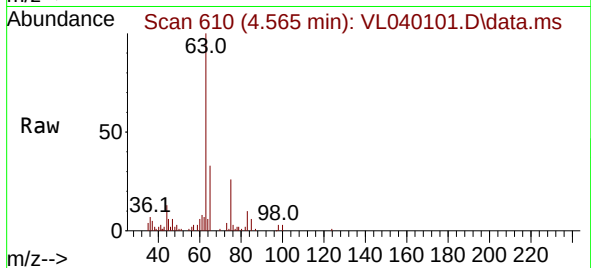
Tgt Ion: 96 Resp: 19153
Ion Ratio Lower Upper
96 100
61 159.3 125.8 188.8
98 65.1 47.4 71.2





#24
1,1-Dichloroethane
Concen: 0.347 ppbv
RT: 4.565 min Scan# 610
Delta R.T. 0.010 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

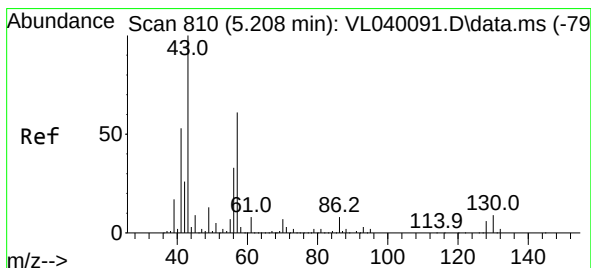
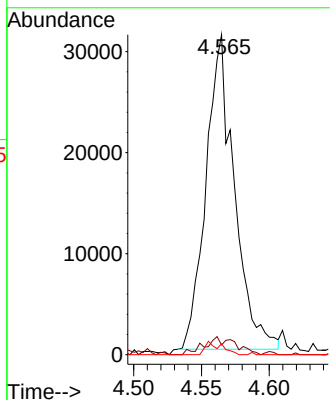
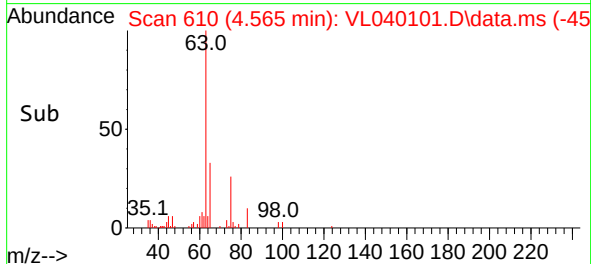
Instrument :
MSVOA_L
ClientSampleId :
BH1N3



Tgt Ion: 63 Resp: 4530
Ion Ratio Lower Upper
63 100
98 3.1 2.0 5.8
100 3.5 1.1 3.5

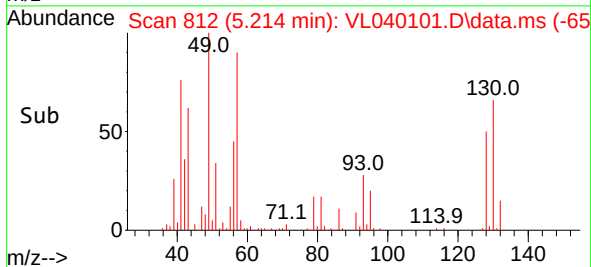
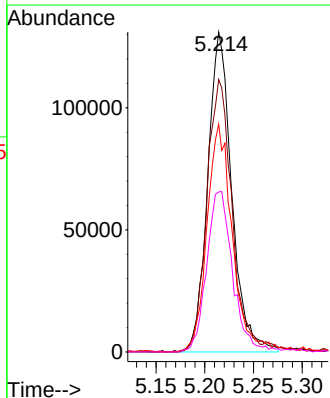
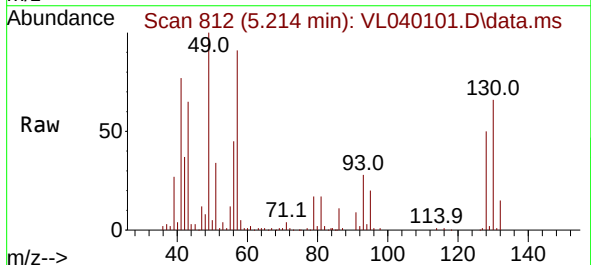
Manual Integrations
APPROVED

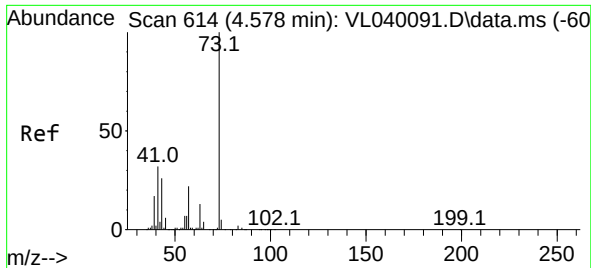
Reviewed By :Semsettin Yesilyurt 01/17/2023
Supervised By :Mahesh Dadoda 01/17/2023



#26
Hexane
Concen: 2.191 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.006 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

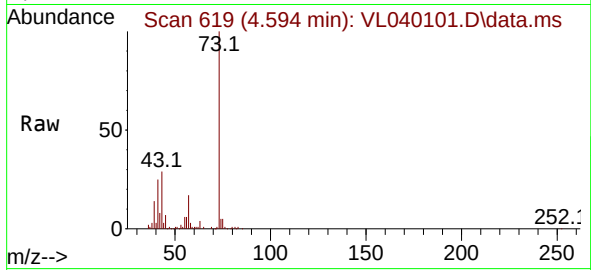
Tgt Ion: 57 Resp: 224807
Ion Ratio Lower Upper
57 100
41 90.9 72.2 108.4
43 77.1 192.1 288.1#
56 55.0 42.9 64.3





#28
Methyl tert-Butyl Ether
Concen: 1.170 ppbv
RT: 4.594 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

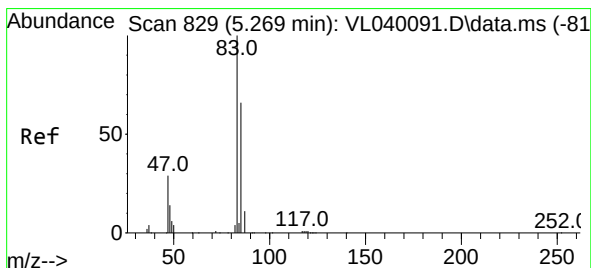
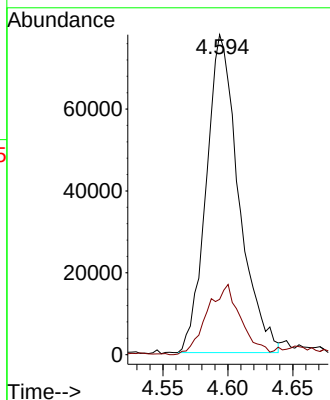
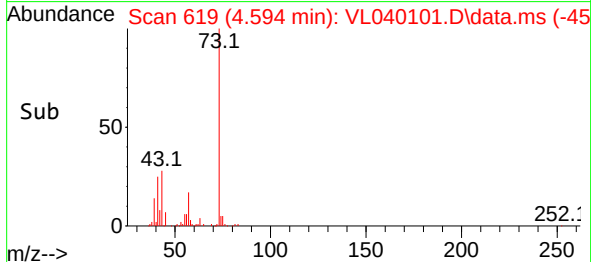
Instrument :
MSVOA_L
ClientSampleId :
BH1N3



Tgt Ion: 73 Resp: 135068
Ion Ratio Lower Upper
73 100
57 23.0 18.3 27.5

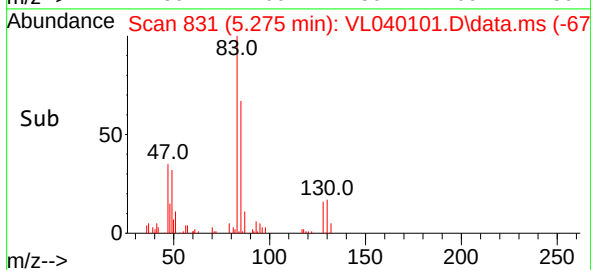
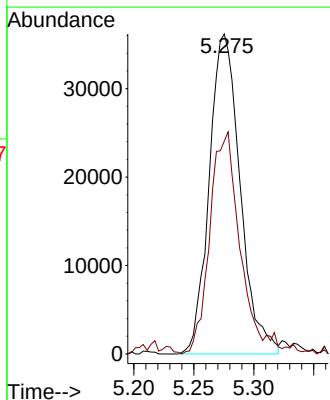
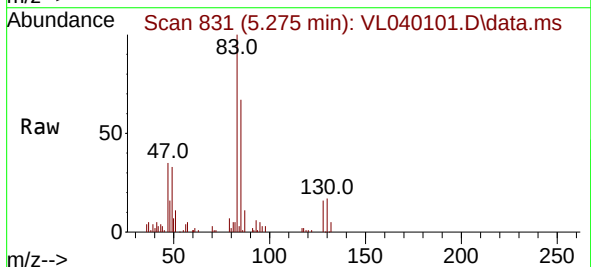
Manual Integrations
APPROVED

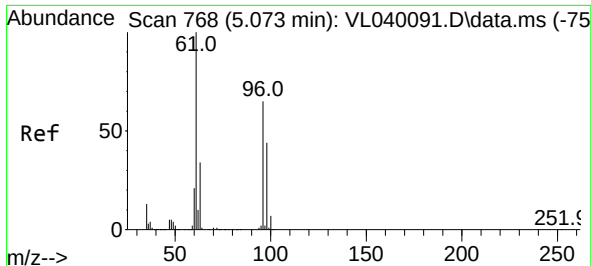
Reviewed By :Semsettin Yesilyurt 01/17/2023
Supervised By :Mahesh Dadoda 01/17/2023



#29
Chloroform
Concen: 0.396 ppbv
RT: 5.275 min Scan# 831
Delta R.T. 0.006 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

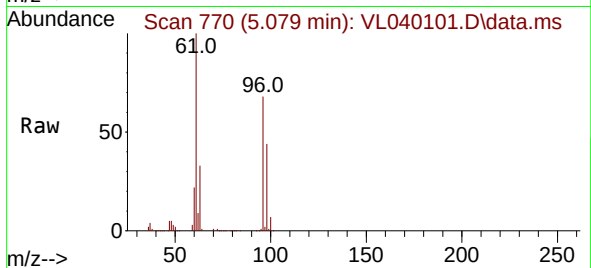
Tgt Ion: 83 Resp: 64906
Ion Ratio Lower Upper
83 100
85 66.0 53.1 79.7





#31
 cis-1,2-Dichloroethene
 Concen: 10.053 ppbv
 RT: 5.079 min Scan# 71
 Delta R.T. 0.006 min
 Lab File: VL040101.D
 Acq: 16 Jan 2023 17:09

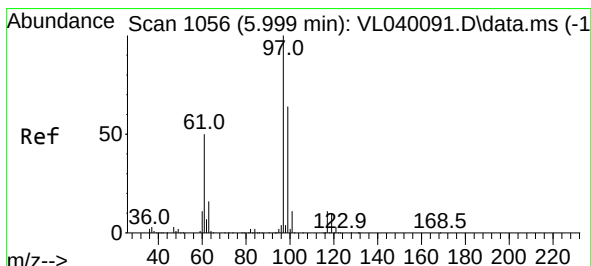
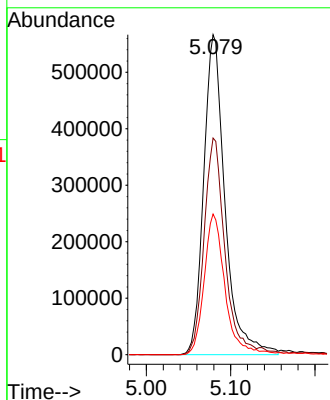
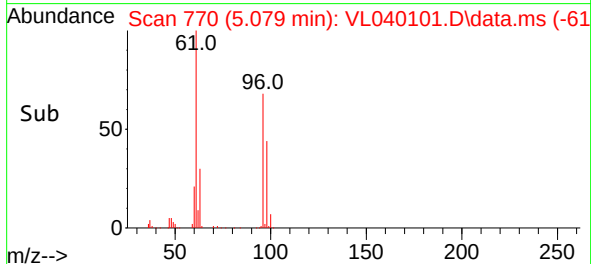
Instrument :
 MSVOA_L
 ClientSampleId :
 BH1N3



Tgt Ion: 61 Resp: 99845
 Ion Ratio Lower Upper
 61 100
 96 67.7 52.0 78.0
 98 43.9 35.3 52.9

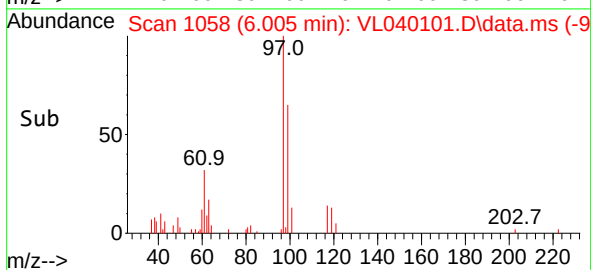
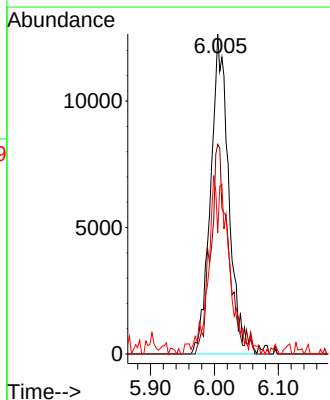
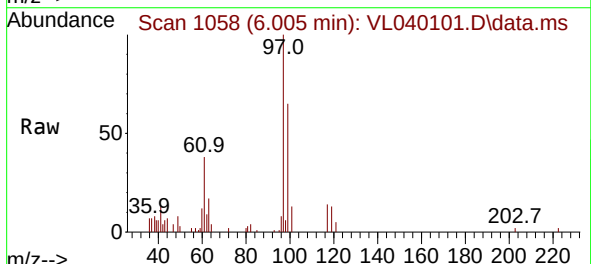
Manual Integrations
 APPROVED

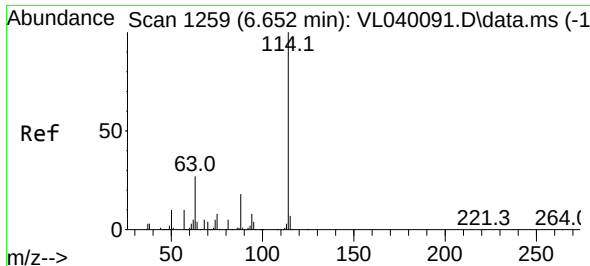
Reviewed By :Semsettin Yesilyurt 01/17/2023
 Supervised By :Mahesh Dadoda 01/17/2023



#32
 1,1,1-Trichloroethane
 Concen: 0.151 ppbv m
 RT: 6.005 min Scan# 1058
 Delta R.T. 0.006 min
 Lab File: VL040101.D
 Acq: 16 Jan 2023 17:09

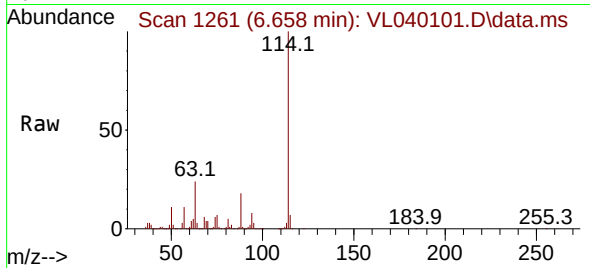
Tgt Ion: 97 Resp: 25238
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.8 77.6#
 61 0.0 40.4 60.6#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. 0.006 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

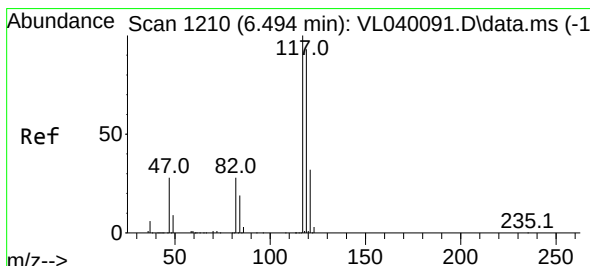
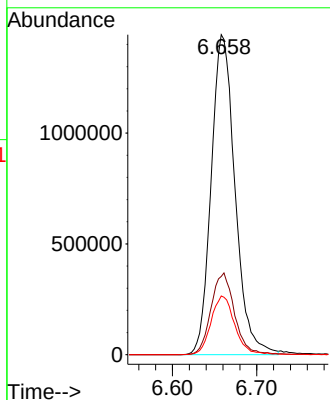
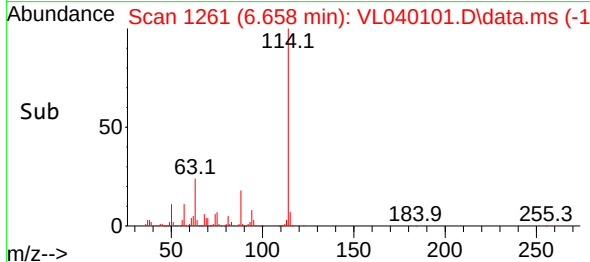
Instrument :
MSVOA_L
ClientSampleId :
BH1N3



Tgt Ion:114 Resp: 2835072
Ion Ratio Lower Upper
114 100
63 25.5 21.8 32.8
88 18.4 14.8 22.2

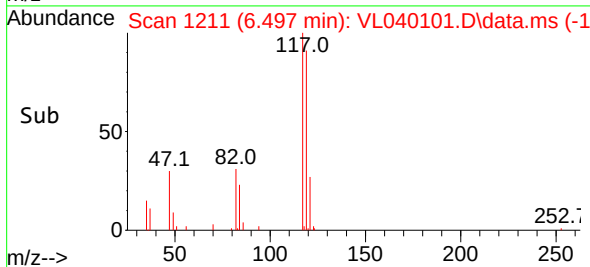
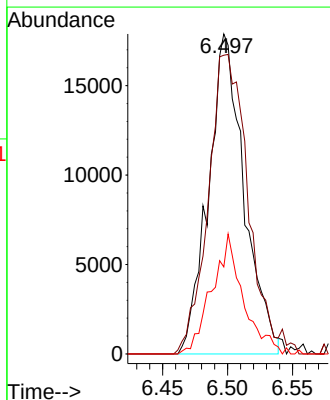
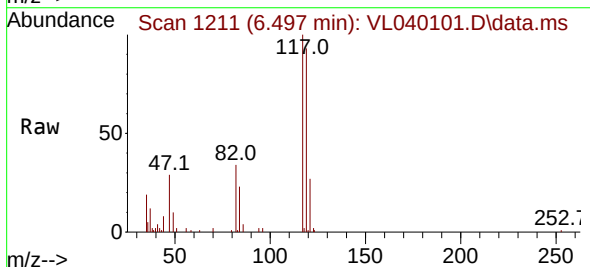
Manual Integrations
APPROVED

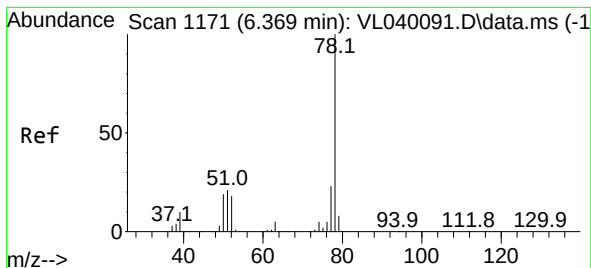
Reviewed By :Semsettin Yesilyurt 01/17/2023
Supervised By :Mahesh Dadoda 01/17/2023



#35
Carbon Tetrachloride
Concen: 0.213 ppbv
RT: 6.497 min Scan# 1211
Delta R.T. 0.003 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

Tgt Ion:117 Resp: 34107
Ion Ratio Lower Upper
117 100
119 92.1 74.5 111.7
121 27.2 25.4 38.0





#36

Benzene

Concen: 0.242 ppbv

RT: 6.375 min Scan# 1171

Delta R.T. 0.006 min

Lab File: VL040101.D

Acq: 16 Jan 2023 17:09

Instrument :

MSVOA_L

ClientSampleId :

BH1N3

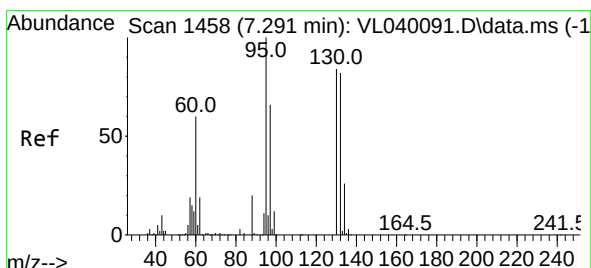
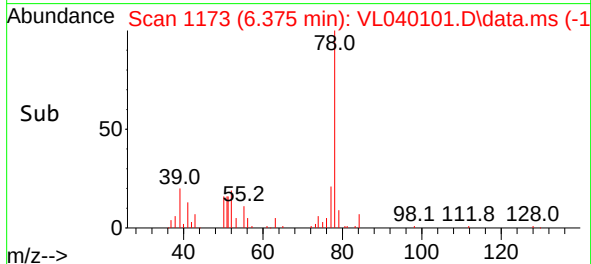
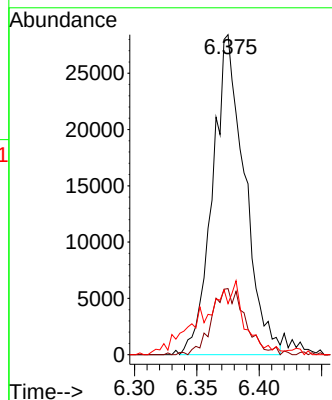
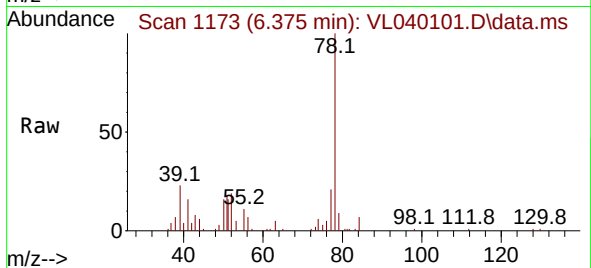
Tgt Ion: 78 Resp: 5069

Ion	Ratio	Lower	Upper
78	100		
77	20.6	18.1	27.1
50	14.7	15.6	23.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/17/2023
Supervised By :Mahesh Dadoda 01/17/2023



#38

Trichloroethene

Concen: 40.080 ppbv

RT: 7.301 min Scan# 1461

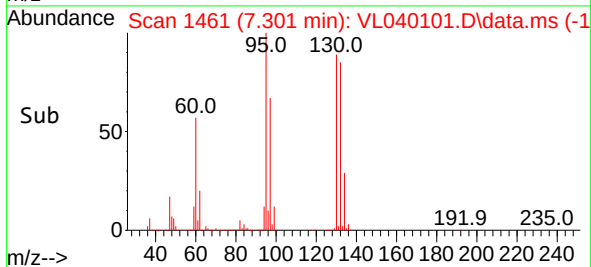
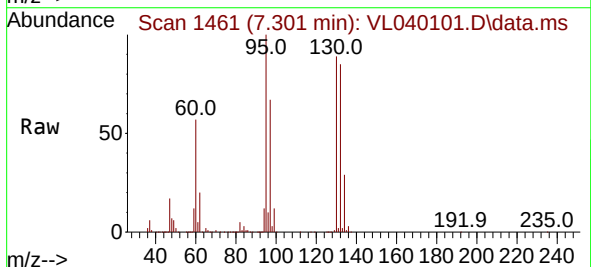
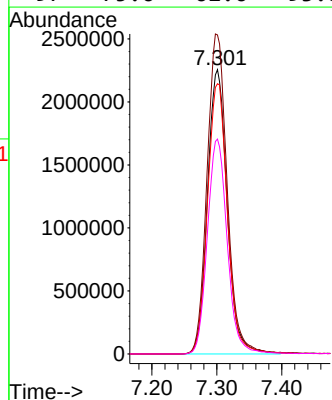
Delta R.T. 0.010 min

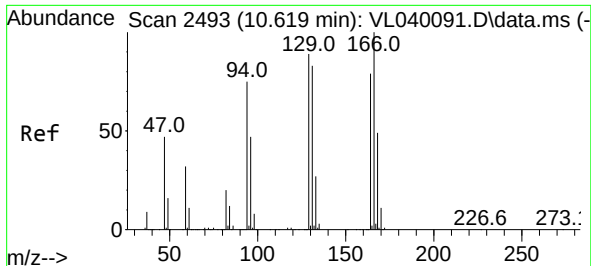
Lab File: VL040101.D

Acq: 16 Jan 2023 17:09

Tgt Ion:130 Resp: 4772386

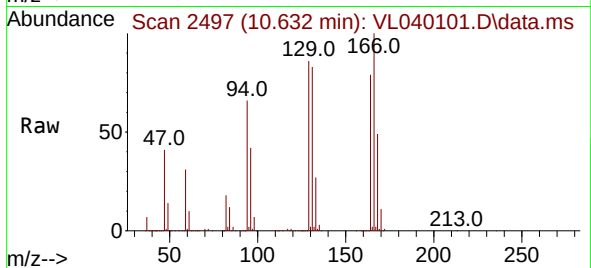
Ion	Ratio	Lower	Upper
130	100		
95	112.2	95.0	142.6
132	95.0	77.9	116.9
97	75.6	62.6	93.8





#52
Tetrachloroethene
Concen: 40.075 ppbv
RT: 10.632 min Scan# 2497
Delta R.T. 0.013 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

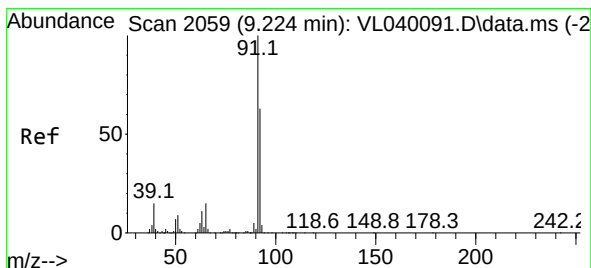
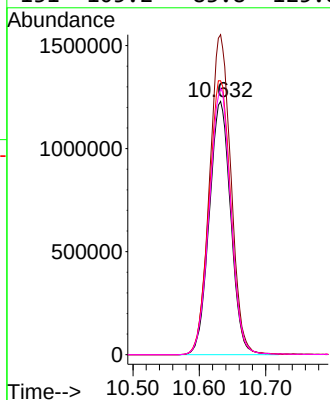
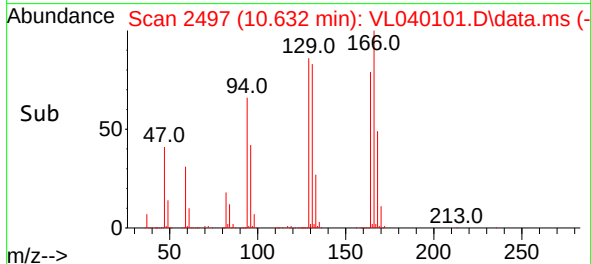
Instrument :
MSVOA_L
ClientSampleId :
BH1N3



Tgt Ion:164 Resp: 2750500
Ion Ratio Lower Upper
164 100
166 126.4 101.2 151.8
129 108.2 90.2 135.2
131 105.2 83.8 125.8

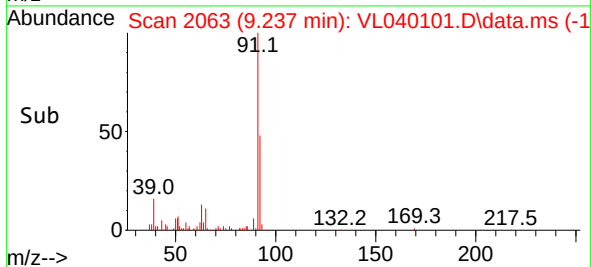
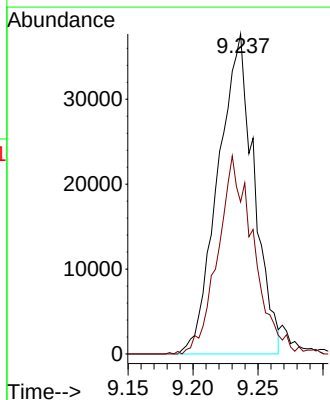
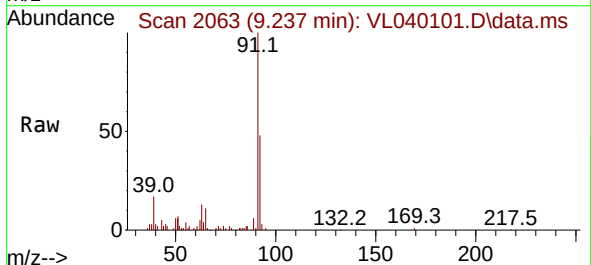
Manual Integrations
APPROVED

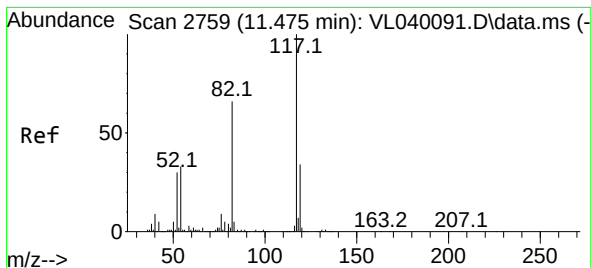
Reviewed By :Semsettin Yesilyurt 01/17/2023
Supervised By :Mahesh Dadoda 01/17/2023



#53
Toluene
Concen: 0.325 ppbv
RT: 9.237 min Scan# 2063
Delta R.T. 0.013 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

Tgt Ion: 91 Resp: 72646
Ion Ratio Lower Upper
91 100
92 62.0 48.3 72.5





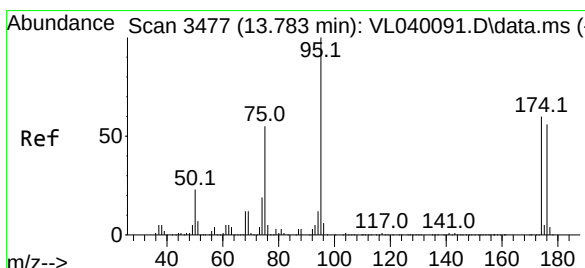
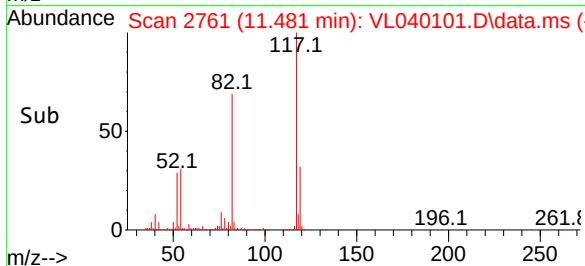
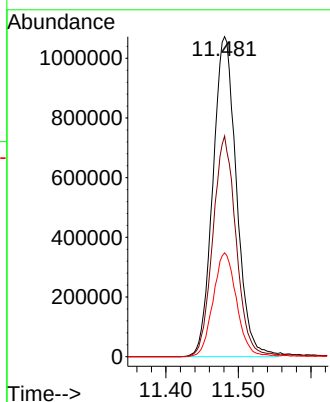
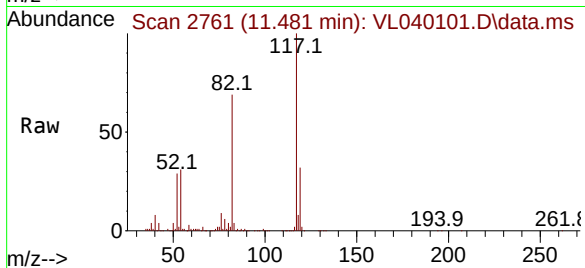
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

Instrument :
MSVOA_L
ClientSampleId :
BH1N3

Tgt Ion:117 Resp: 2427930
Ion Ratio Lower Upper
117 100
82 68.6 54.4 81.6
119 32.7 26.8 40.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/17/2023
Supervised By :Mahesh Dadoda 01/17/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.586 ppbv
RT: 13.793 min Scan# 3480
Delta R.T. 0.010 min
Lab File: VL040101.D
Acq: 16 Jan 2023 17:09

Tgt Ion: 95 Resp: 1934255
Ion Ratio Lower Upper
95 100
174 60.1 47.7 71.5
175 4.2 3.4 5.2

